



September 28, 2020

Council Meeting of October 6, 2020  
Subject: Traffic Control Orders; Speed Limits  
on Various Streets

The Honorable Mayor  
And  
Members of the City Council

Ladies and Gentlemen:

In response to a request to review the speed limits and based on the American Association of State Highway and Transportation Officials (AASHTO) standards and the Michigan Public Acts 445 and 447 of 2016, staff seeks Council consideration of traffic control orders to adjust or validate the speed limits at the following locations:

1. 9th Street, Seminole Road to Gin Chan Ave – post at 25 mph
2. Crosswinds Drive, East Winds Drive to Mount Garfield Road – maintain 25 mph
3. East Winds Drive, Crosswinds Drive to Harvey Street – post at 25 mph
4. N Gateway Boulevard, Grand Haven Road to East Cul-de-sac – post at 35 mph

Adoption of the attached resolution will approve traffic control orders for the establishment of speed limits and associated signage changes on the above designated street sections.

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, Permanent Traffic Control Orders are approved for the designation of speed limits on:

1. 9<sup>th</sup> Street, Seminole Road to Gin Chan Avenue – post 25 mph, based upon speed control for business districts, pursuant to MCL 257.627(2)(b)
2. Crosswinds Drive, East Winds Drive to Mount Garfield Road – maintain 25 mph, based upon an engineering and safety study, pursuant to MCL 257.628
3. East Winds Drive, Crosswinds Drive to Harvey Street – post at 25 mph, based upon an engineering and safety study, pursuant to MCL 257.628
4. N Gateway Boulevard, Grand Haven Road to East Cul-de-sac – post at 35 mph, based upon an engineering and safety study, pursuant to MCL 257.628

At a regular meeting of the City Council of the City of Norton Shores, held remotely on the 6<sup>th</sup> day of October 2020, the foregoing resolution was moved for adoption by Council Member. The motion was supported by Council Member.

Ayes:

Nays:

Resolution declared adopted/denied.

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Shelly Stibitz, City Clerk



## Internal Memo

September 11, 2020

TO: John Gale, NSPD Chief  
FROM: James R. Murphy, PE, Department of Public Works   
RE: 9<sup>th</sup> Street, Seminole Road to Gin Chan Avenue Speed Study.

To be compliant with the revised State speed limit law, a traffic study was performed regarding the speed limit for 9<sup>th</sup> Street from Seminole Road to Harvey Street to Gin Chan Avenue under Section 257.627.

The completed traffic study of the total 0.08-mile length of 9<sup>th</sup> Street shows a uniform roadway in a commercial/business setting. This street consists of one northbound and one southbound travel lane with a stop sign at Seminole Road. The current street's speed limit is not posted but is assumed to be 25 mph.

Section 257.627(2)(b) states:

(2) Except as provided in subsection (1), it is lawful for the operator of a vehicle to operate that vehicle on a highway at a speed not exceeding the following:

(b) 25 miles per hour on a highway segment within a business district.

Per the MICHIGAN VEHICLE CODE (Act 300 of 1949) Section 257.627 the posted speed limit along 9<sup>th</sup> Street between Seminole Road and Gin Chan Avenue should remain 25 mph.

No adjustments to the pavement markings on this portion of the roadway is required.

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





## Internal Memo

September 28, 2020

TO: John Gale, NSPD Chief

FROM: James R. Murphy, PE, Department of Public Works 

RE: Crosswinds Drive, East Winds Drive to Mount Garfield Road Speed Study.

To be compliant with the revised State speed limit law, a traffic study was performed regarding the speed limits along Crosswinds Drive Drive from East Wind Drive to Mount Garfield Road under Section 257.628.

The completed traffic study of the total 0.15-mile length of Crosswinds Drive shows a uniform roadway in a mixed commercial/business and residential setting (apartment complex to the west and the service access to a strip mall on the east). This street consists of one northbound and one southbound travel lane with a stop sign at Mount Garfield Road. The current speed limit is posted at 25 mph. The roadway's geometry is straight and flat.

Along the corridor, the 50th percentile (median) speed is 22.7 mph with the 85th percentile speed at 28.1 mph. The predominant 10 mph pace speed group was found to be between 20-30 mph.

The MICHIGAN VEHICLE CODE (Act 300 of 1949) Section 257.628 (5) states:

*A speed limit established under this section shall be determined by an engineering and safety study and by the eighty-fifth percentile speed of free-flowing traffic under ideal conditions of a section of highway rounded to the nearest multiple of 5 miles per hour. A speed limit established under this act shall not be posted at less than the fiftieth percentile speed of free-flowing traffic under optimal conditions on the fastest portion of the highway segment for which the speed limit is being posted.*

This also is within the intent of setting a rational speed limit, since research has shown that vehicles traveling between the 50th and 85th percentile speed have the lowest risk of crashing due to speed.

Based on the traffic study, technical manuals, and existing road geometry, the posted speed limit along the corridor should remain at the posted speed of 25 mph. This is based on being the

nearest multiple of 5 within 5 mph of the 85th percentile speed and greater than the 50th percentile speed.

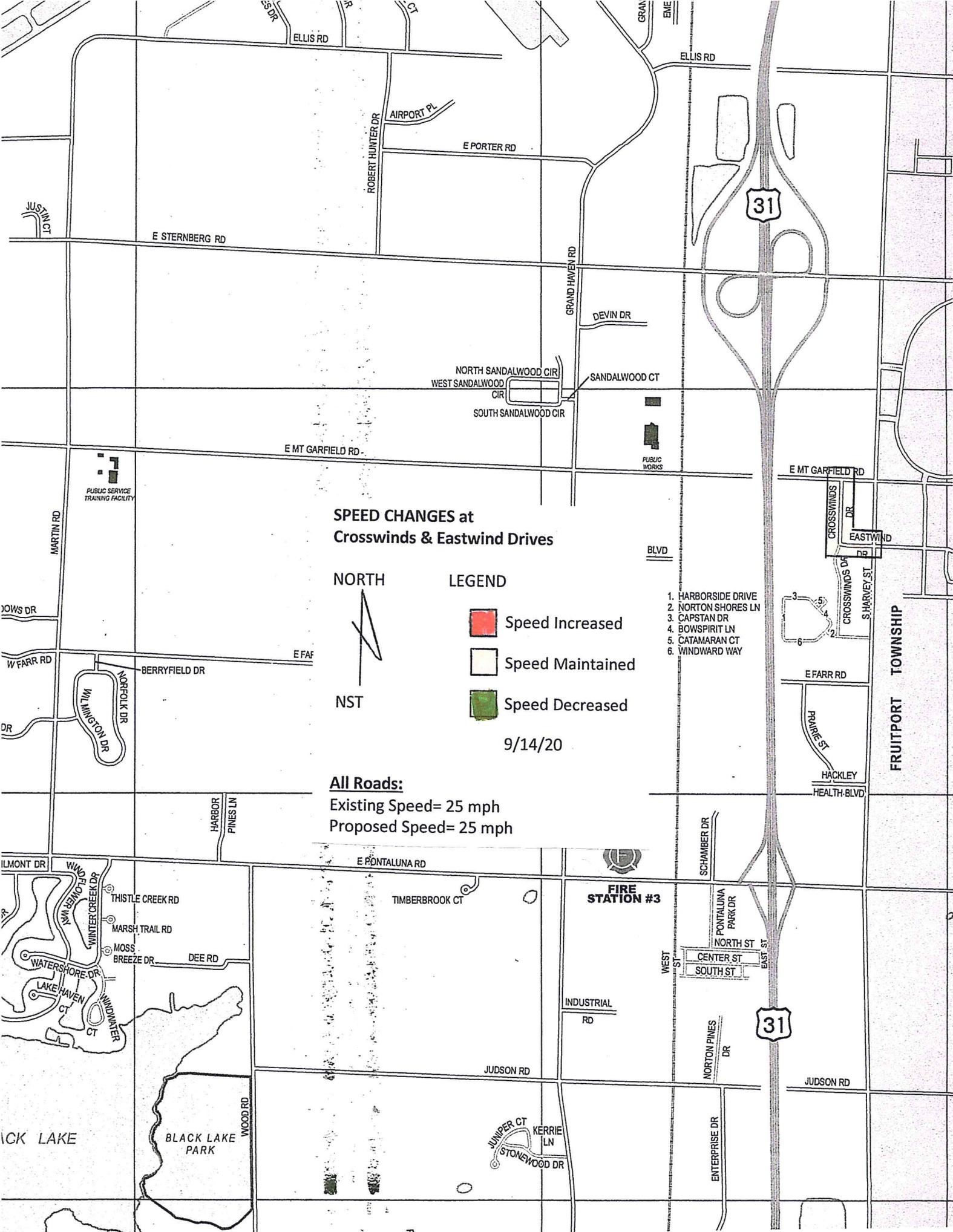
In summary, it is my recommendation that based on the standard traffic manuals/guides, site conditions, and the design speed for the roadway's construction that the posted speed be 25 mph along the Crosswinds Drive between East Winds Drive and Mount Garfield Road.

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

Cross Wind Speed Study

Date: 9/25/2020

Location (North of East Wind)	Date	Median Speed	Average Speed	85th Percentile	10 MPH Pace Speed	% Traffic In Pace
Northbound (NB)	9/14/2020	22.7	22.7	27.3	20-30	69.0
NB	9/15/2020	22.7	22.9	27.9	20-30	70.6
NB	9/16/2020	23.1	23.5	29.2	20-30	67.3
Southbound (SB)	9/15/2020	23.7	23.8	29.0	20-30	70.5
SB	9/16/2020	22.9	22.8	27.9	20-30	71.4
SB	9/17/2020	21.3	21.7	27.1	15-25	74.4
	Average	22.7	22.9	28.1		



**SPEED CHANGES at  
Crosswinds & Eastwind Drives**



**LEGEND**

- Speed Increased
- Speed Maintained
- Speed Decreased

9/14/20

1. HARBORSIDE DRIVE
2. NORTON SHORES LN
3. CAPSTAN DR
4. BOWSPIRIT LN
5. CATAMARAN CT
6. WINDWARD WAY

**All Roads:**  
Existing Speed= 25 mph  
Proposed Speed= 25 mph

FRUITPORT TOWNSHIP

31

31

**FIRE STATION #3**

ICK LAKE

BLACK LAKE PARK

INDUSTRIAL RD

JUNIPER CT  
KERRIE LN  
STONEWOOD DR

ENTERPRISE DR

JUDSON RD

JUDSON RD

E PONTALUNA RD

ILMONT DR

WINDY LAKE  
WINTER CREEK DR  
WATERSHORE DR  
LAKE HAVEN CT  
WINDY LAKE

W FARR RD

JOWS DR

JUNIOR CT

ELLIS RD  
ROBERT HUNTER DR  
AIRPORT PL  
E PORTER RD  
E STERNBERG RD

PUBLIC SERVICE TRAINING FACILITY

E MT GARFIELD RD

MARTIN RD

BERRYFIELD DR  
NORFOLK DR  
W WASHINGTON DR

E FARR RD

HARBOR PINES LN

THISTLE CREEK RD  
MARSH TRAIL RD  
MOSS BREEZE DR  
DEE RD

WOOD RD

TIMBERBROOK CT

SCHAMBER DR  
PONTALUNA PARK DR  
NORTH ST  
CENTER ST  
SOUTH ST

WEST ST

EAST ST

NORTON PINES DR

ENTERPRISE DR

E MT GARFIELD RD  
CROSSWINDS DR  
EASTWIND DR  
S HARVEY ST

E FARR RD

PRYRE ST  
HACKLEY  
HEALTH BLVD

HEALTH BLVD

E PONTALUNA RD

WEST ST  
EAST ST

JUDSON RD

ENTERPRISE DR

JUDSON RD



## Internal Memo

September 10, 2020

To: Jon Gale –Chief of Police

From: James R. Murphy, PE – Director of Public Works

A handwritten signature in black ink, appearing to be "J. Murphy", written over the name of the sender.

Re: East Winds Drive from Crosswinds Drive to Harvey Street, Speed Study.

To be compliant with the revised State speed limit law, a traffic study was performed regarding the speed limits along East Winds Drive from Crosswinds Drive to Harvey Street under Section 257.628.

The completed traffic study of this 0.10-mile street shows that there is one distinct speed zone.

Along the corridor, the 50<sup>th</sup> percentile (median) speed is 23.1 mph with the 85<sup>th</sup> percentile speed at 28.8 mph. The predominant 10 mph pace speed group was found to be between 20-30 mph. The current posted speed limit within the zone of question is not posted. East Wind Drive consists of a two-lane roadway in a commercial area but provides access to apartment complexes both north and south of its intersection with Crosswinds Drive. There is a stop sign located at Harvey Street (speed limit 45 mph), but not at Crosswinds Drive (whose currently posted speed limit is 25 mph). The roadway's geometry is straight and flat.

The MICHIGAN VEHICLE CODE (Act 300 of 1949) Section 257.628 (5) states:

*A speed limit established under this section shall be determined by an engineering and safety study and by the eighty-fifth percentile speed of free-flowing traffic under ideal conditions of a section of highway rounded to the nearest multiple of 5 miles per hour. A speed limit established under this act shall not be posted at less than the fiftieth percentile speed of free-flowing traffic under optimal conditions on the fastest portion of the highway segment for which the speed limit is being posted.*

This also is within the intent of setting a rational speed limit, since research has shown that vehicles traveling between the 50<sup>th</sup> and 85<sup>th</sup> percentile speed have the lowest risk of crashing due to speed.

Based on the traffic study, technical manuals, and existing road geometry, the posted speed limit along the corridor may be posted at 25 mph. This is based on being the nearest multiple of 5 within 5 mph of the 85<sup>th</sup> percentile speed and greater than the 50<sup>th</sup> percentile speed.

Therefore, with both cases allowing the same posted speed, we would recommend that the speed limit remains at its current posting of 25 mph based on Section 257.627(2)(b) of the law.

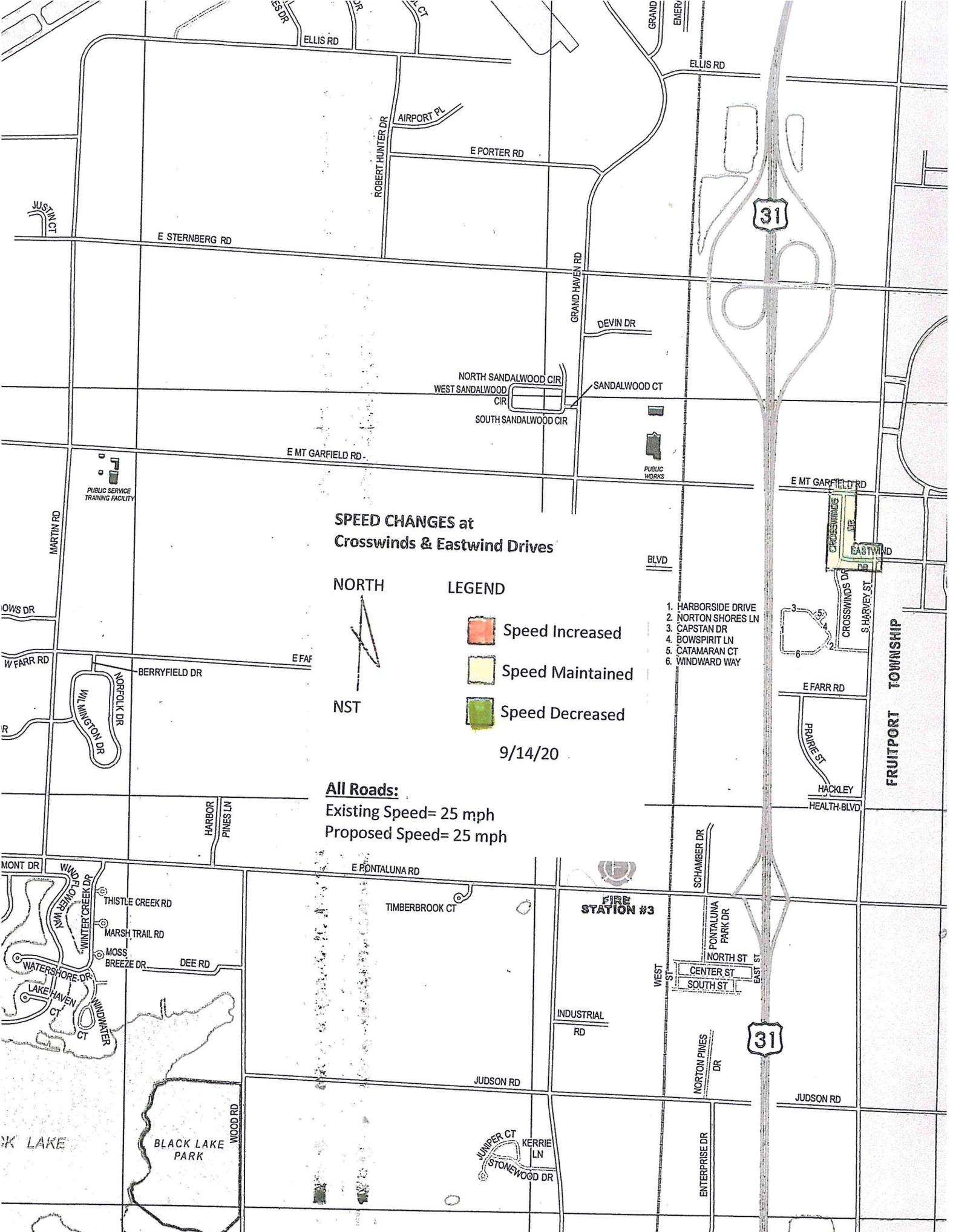
No adjustments to the pavement markings on this portion of the roadway is required.

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

East Winds Speed Study

Date: 9/10/2020

Location (West of Harvey)	Date	Median Speed	Average Speed	85th Percentile	10 MPH Pace Speed	% Traffic In Pace
Eastbound (EB)	8/10/2020	22.7	22.5	28.0	20-30	67.5
EB	8/11/2020	22.9	22.9	28.0	20-30	70.8
EB	8/12/2020	23.0	22.8	28.3	20-30	69.4
Westbound (WB)	8/10/2020	22.4	21.8	28.3	20-30	59.6
WB	8/11/2020	24.5	24.1	29.4	20-30	66.7
WB	8/12/2020	23.0	22.5	30.5	20-30	45.8
	Average	23.1	22.8	28.8		



**SPEED CHANGES at  
Crosswinds & Eastwind Drives**



**LEGEND**

- Speed Increased
- Speed Maintained
- Speed Decreased

1. HARBORSIDE DRIVE
2. NORTON SHORES LN
3. CAPSTAN DR
4. BOWSPIRIT LN
5. CATAMARAN CT
6. WINDWARD WAY

9/14/20

**All Roads:**  
Existing Speed= 25 mph  
Proposed Speed= 25 mph

FRUITPORT TOWNSHIP



**FIRE STATION #3**

BLACK LAKE PARK

WINDY LAKE



## Internal Memo

September 10, 2020

To: Jon Gale –Chief of Police

From: James R. Murphy, PE – Director of Public Works

A handwritten signature in black ink, appearing to be "J. Murphy", is written over the name of the sender.

Re: North Gateway Blvd. from Grand Haven Road to East Cul-de-Sac, Speed Study.

To be compliant with the revised State speed limit law, a traffic study was performed regarding the speed limits along North Gateway Blvd. for Grand Haven Road to its east cul-de-sac under Section 257.628.

The completed traffic study of this 0.25-mile street shows that there is one distinct speed zone.

Along the corridor, the 50<sup>th</sup> percentile (median) speed is 33.0 mph with the 85<sup>th</sup> percentile speed at 38.4 mph. The predominant 10 mph pace speed group was found to be between 30-40 mph. The current posted speed limit within the zone of question is not posted. North Gateway Blvd. consists of a two-lane roadway in an industrial setting. There is a stop sign located at Grand Haven Road (speed limit 45 mph) and is the thru street at its intersection with Norton Center Drive (speed limit 40 mph). There is a sidewalk along the south side of the road. The roadway's geometry is straight and flat.

The MICHIGAN VEHICLE CODE (Act 300 of 1949) Section 257.628 (5) states:

*A speed limit established under this section shall be determined by an engineering and safety study and by the eighty-fifth percentile speed of free-flowing traffic under ideal conditions of a section of highway rounded to the nearest multiple of 5 miles per hour. A speed limit established under this act shall not be posted at less than the fiftieth percentile speed of free-flowing traffic under optimal conditions on the fastest portion of the highway segment for which the speed limit is being posted.*

This also is within the intent of setting a rational speed limit, since research has shown that vehicles traveling between the 50<sup>th</sup> and 85<sup>th</sup> percentile speed have the lowest risk of crashing due to speed.

Based on the traffic study, technical manuals, and existing road geometry, the posted speed limit along the corridor may be posted at 35 mph. This is based on being the nearest multiple of 5 within 5 mph of the 85<sup>th</sup> percentile speed and greater than the 50<sup>th</sup> percentile speed.

The lowest speed based on access points would be at a minimum of 45 mph per Section of 257.627.

In summary, it is my recommendation that based on the standard traffic manuals/guides, site conditions and the design speed for the roadway's construction that the posted speed be 35 mph along the North Gateway Blvd. between Grand Haven Road and the east cul-de-sac.

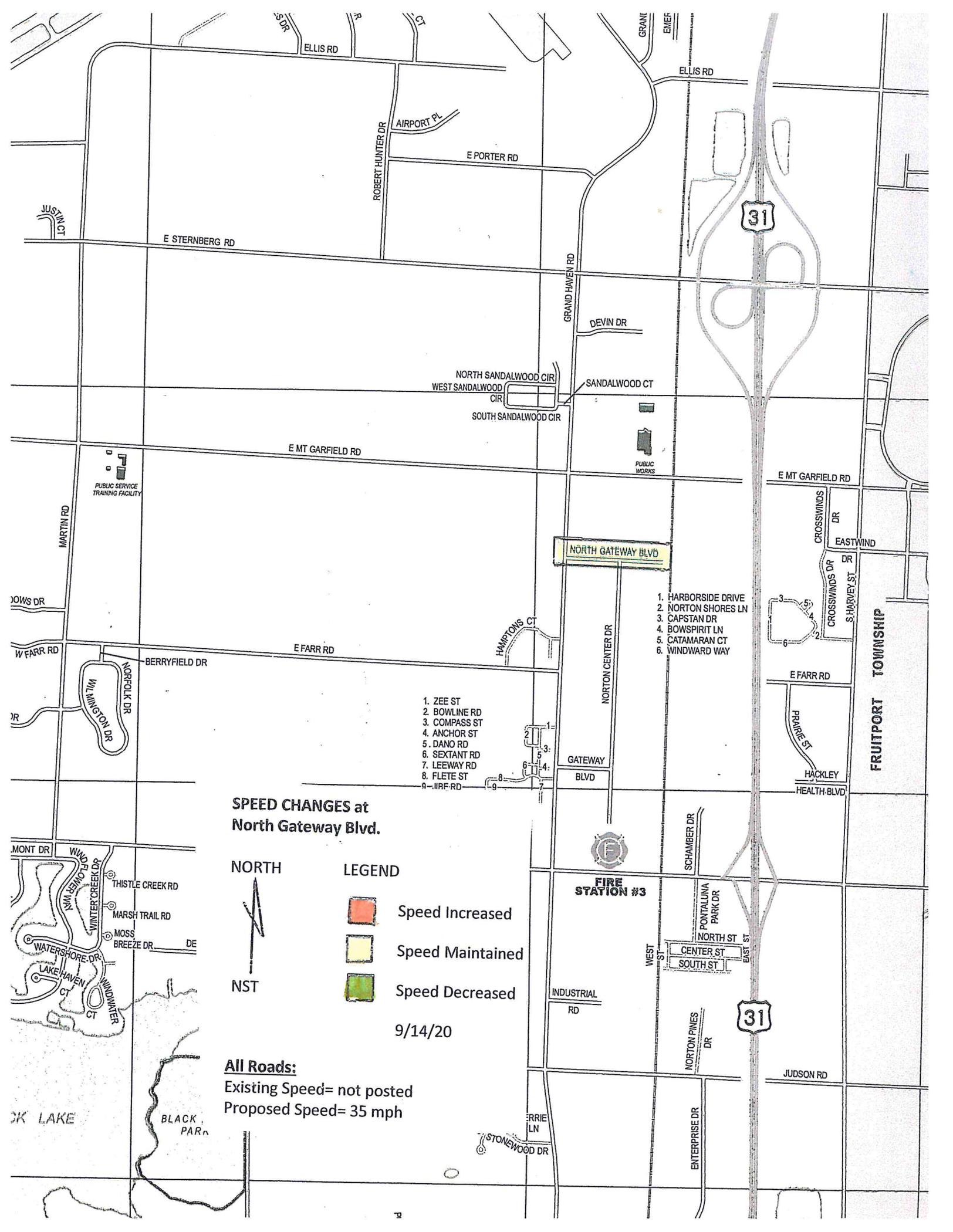
If this speed is adopted, signages should be placed along the corridor to match the speed limit. Also, the pavement markings should be changed to reflect a 550-foot no passing zone for westbound traffic from the intersection of Grand Haven Road east.

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

North Gateway Speed Study

Date: 9/10/2020

Location (East of Norton Center)	Date	Median Speed	Average Speed	85th Percentile	10 MPH Pace Speed	% Traffic In Pace
Eastbound (EB)	8/10/2020	32.3	31.8	38.0	30-40	62.7
EB	8/11/2020	32.9	32.7	38.2	30-40	70.6
EB	8/12/2020	33.5	33.4	38.8	30-40	70.8
Westbound (WB)	8/10/2020	32.9	32.4	38.3	30-40	69.8
WB	8/11/2020	33.2	33.1	38.7	30-40	67.1
WB	8/12/2020	33.0	32.9	38.6	30-40	66.8
	Average	33.0	32.7	38.4		



**SPEED CHANGES at North Gateway Blvd.**

**NORTH**



**NST**

**LEGEND**

- Speed Increased
- Speed Maintained
- Speed Decreased

9/14/20

**All Roads:**

Existing Speed= not posted  
Proposed Speed= 35 mph

1. HARBORSIDE DRIVE
2. NORTON SHORES LN
3. CAPSTAN DR
4. BOWSPIRIT LN
5. CATAMARAN CT
6. WINDWARD WAY

1. ZEE ST
2. BOWLINE RD
3. COMPASS ST
4. ANCHOR ST
5. DANO RD
6. SEXTANT RD
7. LEEWAY RD
8. FLETE ST
9. WIFE RD

**NORTH GATEWAY BLVD**

**FIRE STATION #3**

**FRUITPORT TOWNSHIP**

**31**

**31**

