



# Royal Oak

## Agenda

### Royal Oak Citizens Traffic Committee Meeting

Tuesday, May 28, 2024, 6:30 p.m.

City Hall Commission Chambers Room 121

203 South Troy Street

Royal Oak, MI 48067

Anyone planning to attend the meeting who has need of special assistance under the Americans with Disabilities Act (ADA) is asked to contact the city clerk's office at 248-246-3050 at least two (2) business days prior to the meeting.

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	Pages
1. Call to Order	
2. Roll Call and Preamble	2
3. Approval of Minutes	3
4. Public Comment for Items not on the Agenda	
5. Rescheduled Items and Old Business	
a. Results of Previous Traffic Committee Recommendations	
6. Agenda Items	
a. Request for 4-way stop at intersection of Woodlawn Avenue and Glendale Avenue	6
b. Request for left turn signals on Crooks Road	13
c. Request for No Parking on one side of E. Parent Avenue	66
d. Request for stop sign at alley off Normandy Road	68
e. Review and Amendment to Traffic Committee Bylaws	73
7. Information Only Items	
The recommendations from the Traffic Committee meeting are scheduled to be presented to the City Commission at the 7:30 p.m., June 10, 2024 meeting.	
8. Adjournment	

### Royal Oak Citizens Traffic Committee Preamble

"The Traffic Committee consists of Royal Oak property owners appointed by the City Commission. We are volunteers and are not paid or elected. What we decide tonight is merely a recommendation to the City Commission. If you do not agree with the findings or decisions of this committee, you may go before the City Commission and petition and/or discuss your issue with them. At this meeting you will be given an opportunity to speak during your item on the agenda. However, at the City Commission meeting, you must be recognized during "public comment" on their agenda, not when the Traffic Committee resolutions are being voted upon. Otherwise, you will not be able to voice your concerns.

It is important to understand that professionals make preliminary recommendations to the Traffic Committee. They consist of civil and traffic engineers, outside consultants and public safety officials. You may have been informed that these professionals have denied your request or petition. This denial does not mean that this committee will vote that way; however, we are committed to discussing the issues at hand in a pragmatic and sensible manner. Our ultimate recommendation to the City Commission will be one that benefits our citizens and community as a whole."



Engineering Division  
203 South Troy Street  
Royal Oak, MI 48067

## Citizens Traffic Committee Meeting Minutes March 26, 2024

A regular meeting of the Royal Oak Citizens Traffic Committee was held on Tuesday, March 26, 2024, in the commission chambers at City Hall, 203 S. Troy Street, Royal Oak.

### 1. Call to Order

The meeting was called to order by Chairperson Godek at 6:30 p.m.

### 2. Roll Call:

#### Present

Dan Godek, Chairperson  
Carl Laubach, Vice Chairperson  
Thomas Allen  
Sean Dunlop  
Samantha Grant  
Joe Labataille  
Austin Schneider  
Clyde Esbri, Alternate

#### Also Present

Holly J. Donoghue, City Engineer  
Amy Kelly, Municipal Clerk III  
Jacob Theisen, Police Dept

### 3. Approval of Traffic Committee Meeting Minutes of January 23, 2024

Moved by: Thomas Allen

Supported by: Carl Laubach

Motion adopted unanimously

### 4. Public Comment

Chairperson Godek opened the floor to public comment. No one came forward.

### 5. Rescheduled Items/Old Business

#### 5.A Results of January Traffic Committee Recommendations to city commission

Staff brought the January 23, 2024 Citizens Traffic Committee recommendations to the February 12, 2024 commission meeting. The city commission approved all items as recommended by the traffic committee.

## 6. Agenda Items

### 6.A Request to install flashing school signs for Addams Elementary

The Royal Oak School District requested the installation of electronic school zone signage on Webster Avenue adjacent to Addams Elementary. They have noticed unsafe driving during student drop-off and dismissal.

The findings of the Staff Traffic Committee were presented by Holly Donoghue, P.E.

Chairperson Godek opened the floor to those interested in speaking on this issue:

- Graham Walker of 2503 Woodland – stated the sign would be an additional sign on the side of his house (existing yellow cross walk sign), however he was ok with it and in addition to the extra sign he recommends no parking between Woodland and Linwood because the parked cars are obstructing sight distance for pedestrians crossing there.
- Tim Boyers, Principle of Addams Elementary School – stated that there are many pick-up and drop-off challenges, he agree the parked cars are a safety hazard. Crossing guards have told him cars are running the traffic light. He is in favor of the signs.

Chairperson Godek closed public comment.

- Chairperson Godek noted that the parking could be looked at, but should be discussed separately from this issue.
- Ms. Donoghue noted that parking on Webster between Woodland and Linwood was recently studied, and that we typically require one year before studying a location again. The resident should submit his request using the traffic committee request form online.

**The Traffic Committee recommends adopting the staff recommendation to install two (2) solar-powered sign assemblies on Webster Road near Addams Elementary which include “Speed Limit 25 MPH” R-21 signs, “School” S4-P plaques, and programmed to flash during school arrival and dismissal periods.**

Estimated cost: \$11,000

Moved by: Carl Laubach

Supported by: Thomas Allen

Motion adopted unanimously

### 6.B Request to improve site distance on Forestdale Road near Woodward Avenue

A request was received from Lauren Ayles of 805 Forestdale Road requesting that some on-street parking spaces be removed from the north side of Forestdale Road near Woodward. She notes that these vehicles block the sight line of oncoming traffic in both directions due to the road curvature. She also notes that it is difficult to turn onto Woodward Avenue from Forestdale Road due to business parking in the Woodward right-of-way south of Forestdale Road.

The findings of the Staff Traffic Committee were presented by Holly Donoghue, P.E.

Chairperson Godek opened the floor to those interested in speaking on this issue:

- Lauren Ayles of 805 Forestdale – stated she agrees with the changes. She noted that several large white vans park in 3 to 5 spots on the street closest to Woodward, and their height makes it harder to see vehicles. She also noted that cars turning from Woodward often turn into middle of road because they know they curve is coming up, which can cause a traffic conflict.

Chairperson Godek closed public comment.

**The Traffic Committee recommends adopting the staff recommendation to relocate the existing “no parking beyond” sign on the west side of Forestdale Road just north of Woodward Avenue to be an additional 20 feet further to the north.**

Estimated cost: \$300

Moved by: Joe Labataille

Supported by: Thomas Allen

Motion adopted unanimously

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#### **7. Information Only Items**

Ms. Donoghue noted that the next scheduled meeting is the day after memorial day and wanted to confirm that there would not be several members absent. The committee agreed to keep the meeting as scheduled on May 28, 2024.

Samantha Grant noted that this will be her last Traffic Committee meeting as she has accepted an engineer position with the city.

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#### **8. Adjourn**

Upon the motion of Thomas Allen, seconded by Sean Dunlop, and adopted unanimously, the regular meeting was adjourned at 6:55 p.m.

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## Royal Oak Traffic Committee

### AGENDA ITEM

<b>Title</b>	6A – Request for 4-way stop at Woodlawn and Glendale
<b>SUBMITTING DEPARTMENT</b>	Engineering
<b>PRESENTER</b>	Holly Donoghue, P.E.
<b>MEETING DATE</b>	May 28, 2024

#### Requestor Concern:

A request was received from Mark Madden of 139 Woodlawn Avenue requesting a 4-way stop at the intersection of Woodlawn Avenue and Glendale Avenue, or to at least replace the Yield signs for north/south traffic to be stop signs.

#### Staff Analysis:

The Staff Traffic Committee has reviewed this request and determined that:

1. Woodlawn Avenue and Glendale Avenue are both 27-foot wide local roads consisting of concrete pavement.
2. Parking is allowed on both streets. Woodlawn Avenue has permit parking on the north side from Rochester to Glendale, and on the south side from Glendale to 420 Woodlawn.
3. At the intersection of Woodlawn and Glendale, there are currently yield signs for north/south traffic, and there are no restrictions for east/west traffic.
4. The three-year (2021-2023) accident report shows no accidents at the intersection.
5. The requestor originally asked for speed humps along Woodlawn, but the criteria for speed and traffic volume were not met. The data is provided here for reference.

Woodlawn Avenue	85th Percentile Speed (mph)	Vehicles Per Day
Main to Glendale	27	263
Glendale to Rochester	28	256

6. From the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), the warrants for a 4-way stop intersection are as follows:
  - a. Five or more reported crashes in a 12-month period – not met.
  - b. Vehicular volume from the major street averages at least 300 vehicles per hour for any 8 hours, and vehicular, pedestrian and bike volume from the minor approach averages 200 units per hour for the same 8 hours – based on traffic volumes above, not met.

- c. High pedestrian volumes (more than 100 per hour) – not met
- d. Sight distance issues – not met

7. Based on the MMUTCD the recommended criteria for a multi-way stop application, a 4-way stop at the intersection of Woodlawn and Glendale is not warranted.
8. Yield signs are rare in the City of Royal Oak, and not something drivers are used to seeing on a regular basis. Yield-controlled intersections allow approaching vehicles to cross or turn without coming to a stop if no conflicting vehicles or pedestrians are approaching. The sight distance for yield-controlled intersections should be in excess of those for stop-controlled conditions so that there is enough time for a driver to decide to stop or continue.
9. In an urban area with varying degrees of on street parking and street trees, staff feels it is prudent to use stop signs in lieu of yield signs.

**Suggested Staff Recommendation: To replace the north/south yield signs on Glendale Avenue at Woodlawn Avenue with stop signs (R1-1).**

Estimated cost: \$400



Transportation Improvement Association

Woodlawn & Glendale Intersection



**Crash Severity**
**Alcohol in Crashes**

	Fatal	A	B	C	PDO	Total
Drinking	0	0	0	0	0	0
Not Drinking	0	0	0	0	0	0
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Crashes per Hour by Day**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Total
12a-1a	0	0	0	0	0	0	0	0
1a-2a	0	0	0	0	0	0	0	0
2a-3a	0	0	0	0	0	0	0	0
3a-4a	0	0	0	0	0	0	0	0
4a-5a	0	0	0	0	0	0	0	0
5a-6a	0	0	0	0	0	0	0	0
6a-7a	0	0	0	0	0	0	0	0
7a-8a	0	0	0	0	0	0	0	0
8a-9a	0	0	0	0	0	0	0	0
9a-10a	0	0	0	0	0	0	0	0
10a-11a	0	0	0	0	0	0	0	0
11a-12p	0	0	0	0	0	0	0	0
12p-1p	0	0	0	0	0	0	0	0
1p-2p	0	0	0	0	0	0	0	0
2p-3p	0	0	0	0	0	0	0	0
3p-4p	0	0	0	0	0	0	0	0
4p-5p	0	0	0	0	0	0	0	0
5p-6p	0	0	0	0	0	0	0	0
6p-7p	0	0	0	0	0	0	0	0
7p-8p	0	0	0	0	0	0	0	0
8p-9p	0	0	0	0	0	0	0	0
9p-10p	0	0	0	0	0	0	0	0
10p-11p	0	0	0	0	0	0	0	0
11p-12a	0	0	0	0	0	0	0	0
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

# Transportation Improvement Association

100 E. Big Beaver Road, Suite 910

Troy, Michigan 48083

Site Code: WOODLAWN btwn GLENDALE

Station ID: AND ROCHESTER

Location 1: City of Royal Oak

Location 2:

Location 3:

Location 4:

Comment 1:

Comment 2:

Comment 3:

Comment 4:

Latitude: 0.000000

Longitude: 0.000000

2/19/2024		2/19/2024		2/20/2024		2/21/2024		2/22/2024		2/23/2024		Weekday Average		2/24/2024		2/25/2024		
Time	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	*	*	*	*	0	0	0	0	0	0	0	0	0	0	*	*	*	*
1:00	*	*	*	*	0	0	0	0	0	0	0	0	0	0	*	*	*	*
2:00	*	*	*	*	0	0	0	0	0	0	0	0	0	0	*	*	*	*
3:00	*	*	*	*	0	0	0	0	1	0	0	0	0	0	*	*	*	*
4:00	*	*	*	*	0	0	0	0	1	0	0	0	0	0	*	*	*	*
5:00	*	*	*	*	2	1	3	0	0	0	0	2	0	0	*	*	*	*
6:00	*	*	*	*	4	5	2	6	3	4	3	5	*	*	*	*	*	*
7:00	*	*	*	*	8	19	8	16	7	22	8	19	*	*	*	*	*	*
8:00	*	*	*	*	6	13	10	8	6	11	7	11	*	*	*	*	*	*
9:00	*	*	*	*	6	8	12	6	8	5	9	6	*	*	*	*	*	*
10:00	*	*	4	5	3	4	6	6	4	8	4	6	*	*	*	*	*	*
11:00	*	*	9	7	7	7	7	7	*	*	8	7	*	*	*	*	*	*
12:00 PM	*	*	8	7	8	8	5	7	*	*	7	7	*	*	*	*	*	*
1:00	*	*	4	5	2	7	6	8	*	*	4	7	*	*	*	*	*	*
2:00	*	*	6	7	2	11	10	14	*	*	6	11	*	*	*	*	*	*
3:00	*	*	12	12	9	11	10	7	*	*	10	10	*	*	*	*	*	*
4:00	*	*	7	13	12	6	10	13	*	*	10	11	*	*	*	*	*	*
5:00	*	*	19	18	15	13	13	18	*	*	16	16	*	*	*	*	*	*
6:00	*	*	11	9	4	8	8	18	*	*	8	12	*	*	*	*	*	*
7:00	*	*	5	8	6	13	3	8	*	*	5	10	*	*	*	*	*	*
8:00	*	*	2	5	0	4	1	7	*	*	1	5	*	*	*	*	*	*
9:00	*	*	1	5	1	3	0	3	*	*	1	4	*	*	*	*	*	*
10:00	*	*	0	0	1	1	2	1	*	*	1	1	*	*	*	*	*	*
11:00	*	*	0	1	1	0	0	0	*	*	0	0	*	*	*	*	*	*
Total Day	0	0	88	102	97	142	116	153	30	50	110	148	0	0	0	0	0	0
AM Peak Volume			11:00	11:00	7:00	7:00	9:00	7:00	9:00	7:00	9:00	7:00						
PM Peak Volume			5:00	5:00	5:00	5:00	5:00	5:00			5:00	5:00						
Comb Total ADT	0	190	239	269	80	258	0	0	0	0	0	0	0	0	0	0	0	0
	ADT: 256		AADT: 256															

# Transportation Improvement Association

100 E. Big Beaver Road, Suite 910

Troy, Michigan 48083

Site Code: WOODLAWN btwn MAIN &  
 Station ID: GLENDALE  
 Location 1: City of Royal Oak  
 Location 2:  
 Location 3:  
 Location 4:

Comment 1:  
 Comment 2:  
 Comment 3:  
 Comment 4:  
 Latitude: 0.000000  
 Longitude: 0.000000

2/19/2024		2/19/2024		2/20/2024		2/21/2024		2/22/2024		2/23/2024		Weekday Average		2/24/2024		2/25/2024		
Time	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	*	*	*	*	0	0	0	0	0	0	0	0	0	0	*	*	*	*
1:00	*	*	*	*	0	0	0	0	0	0	0	0	0	0	*	*	*	*
2:00	*	*	*	*	0	0	0	0	0	0	0	0	0	0	*	*	*	*
3:00	*	*	*	*	0	0	0	0	0	0	0	0	0	0	*	*	*	*
4:00	*	*	*	*	0	1	0	0	1	0	0	0	0	0	*	*	*	*
5:00	*	*	*	*	1	1	0	0	0	0	0	0	0	0	*	*	*	*
6:00	*	*	*	*	1	5	3	6	2	4	2	5	*	*	*	*	*	*
7:00	*	*	*	*	8	22	4	16	6	28	6	22	*	*	*	*	*	*
8:00	*	*	*	*	5	17	7	12	4	11	5	13	*	*	*	*	*	*
9:00	*	*	*	*	3	8	8	6	8	4	6	6	*	*	*	*	*	*
10:00	*	*	*	*	6	8	6	5	4	10	5	8	*	*	*	*	*	*
11:00	*	*	9	9	4	9	9	9	*	*	7	9	*	*	*	*	*	*
12:00 PM	*	*	8	7	12	12	6	6	*	*	9	8	*	*	*	*	*	*
1:00	*	*	3	4	5	6	6	7	*	*	5	6	*	*	*	*	*	*
2:00	*	*	7	4	2	9	10	16	*	*	6	10	*	*	*	*	*	*
3:00	*	*	15	11	11	9	12	6	*	*	13	9	*	*	*	*	*	*
4:00	*	*	10	13	17	11	16	12	*	*	14	12	*	*	*	*	*	*
5:00	*	*	15	15	11	20	13	16	*	*	13	17	*	*	*	*	*	*
6:00	*	*	9	6	6	9	6	13	*	*	7	9	*	*	*	*	*	*
7:00	*	*	6	10	8	15	4	8	*	*	6	11	*	*	*	*	*	*
8:00	*	*	3	2	2	3	5	3	*	*	3	3	*	*	*	*	*	*
9:00	*	*	3	1	1	1	0	1	*	*	1	1	*	*	*	*	*	*
10:00	*	*	0	0	4	1	2	2	*	*	2	1	*	*	*	*	*	*
11:00	*	*	2	1	2	0	0	0	*	*	1	0	*	*	*	*	*	*
Total Day	0	0	90	83	109	167	117	144	25	57	111	150	0	0	0	0	0	0
AM Peak Volume			11:00	11:00	7:00	7:00	11:00	7:00	9:00	7:00	11:00	7:00						
			9	9	8	22	9	16	8	28	7	22						
PM Peak Volume			3:00	5:00	4:00	5:00	4:00	2:00			4:00	5:00						
			15	15	17	20	16	16			14	17						
Comb Total ADT	0	173	276	261	82	261	0	0	0	0	0	0	0	0	0	0	0	0
	ADT: 263	AADT: 263																



## Royal Oak Traffic Committee

### AGENDA ITEM

<b>Title</b>	6B – Request for Left Turn Signals on Crooks Road
<b>SUBMITTING DEPARTMENT</b>	Engineering
<b>PRESENTER</b>	Holly Donoghue, P.E.
<b>MEETING DATE</b>	May 28, 2024

#### Requestor Concern:

A request was received from Kathleen London of 5132 Thorncroft Court requesting dedicated left turn signals at the intersections of:

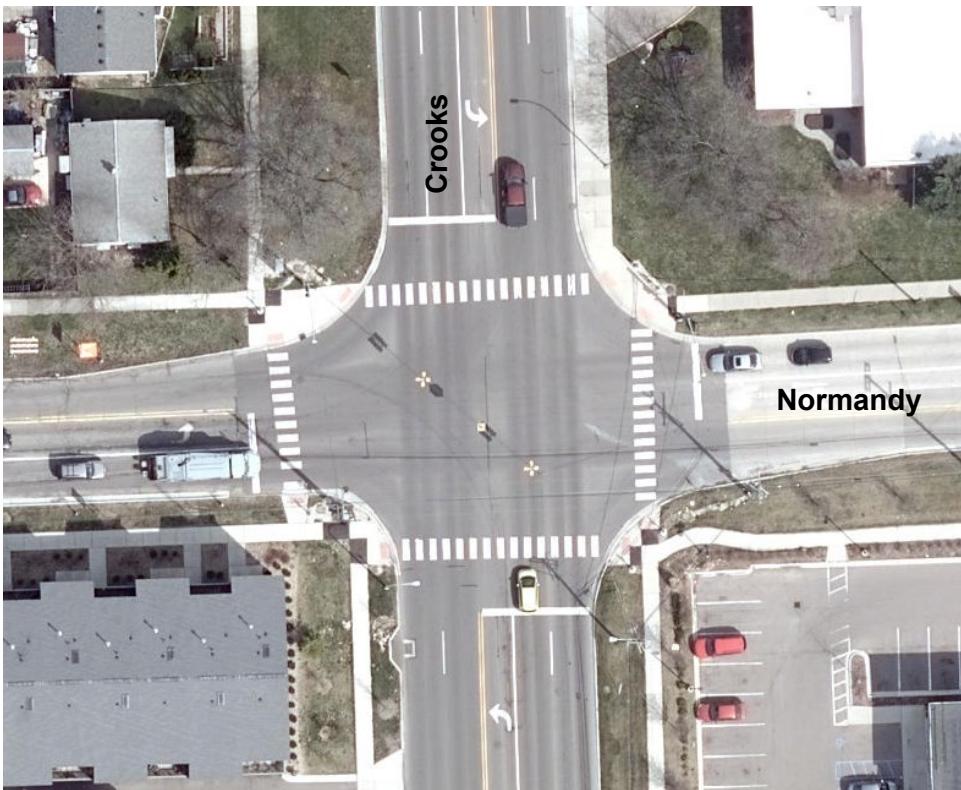
- Crooks Road at Lexington Boulevard
- Crooks Road at Normandy Road

She notes that many inexperienced drivers use these intersections when traveling to/from the high school, and that the lack of left turn signals poses a safety threat to drivers, pedestrians and cyclists.

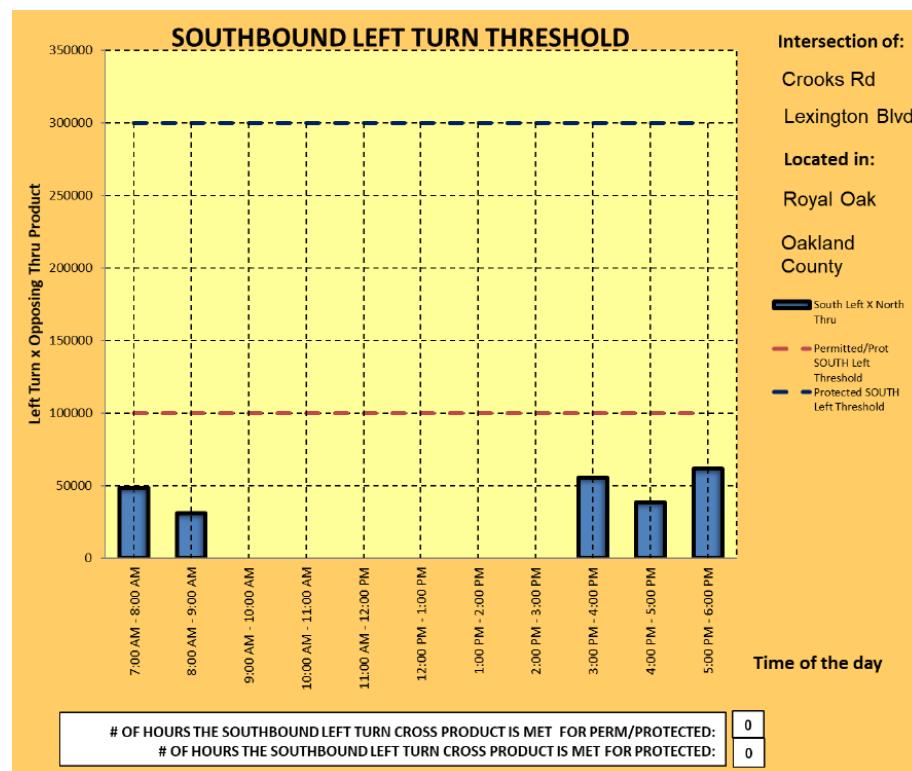
#### Staff Analysis:

The Staff Traffic Committee has reviewed this request and determined that:

1. Crooks Road is a 58-foot wide major road consisting of composite pavement with concrete curbing.
2. Lexington Boulevard is major road consisting of concrete pavement with 22-foot wide pavement on each side of the boulevard.
3. Normandy Road is a 37-foot wide major road consisting of composite pavement with concrete curbing west of Crooks, and concrete pavement east of Crooks.
4. Crooks/Lexington is signalized intersection with no dedicated left turn signals in any direction. There is a dedicated left turn lane for southbound Crooks. Lexington does not have painted lane lines, but there is space for two lanes of traffic (left turns and right turns).
5. Crooks/Normandy is a signalized intersection with no dedicated left turn signals in any direction. There are dedicated left turn lanes in all directions.
6. An aerial views of the two intersections are provided below:

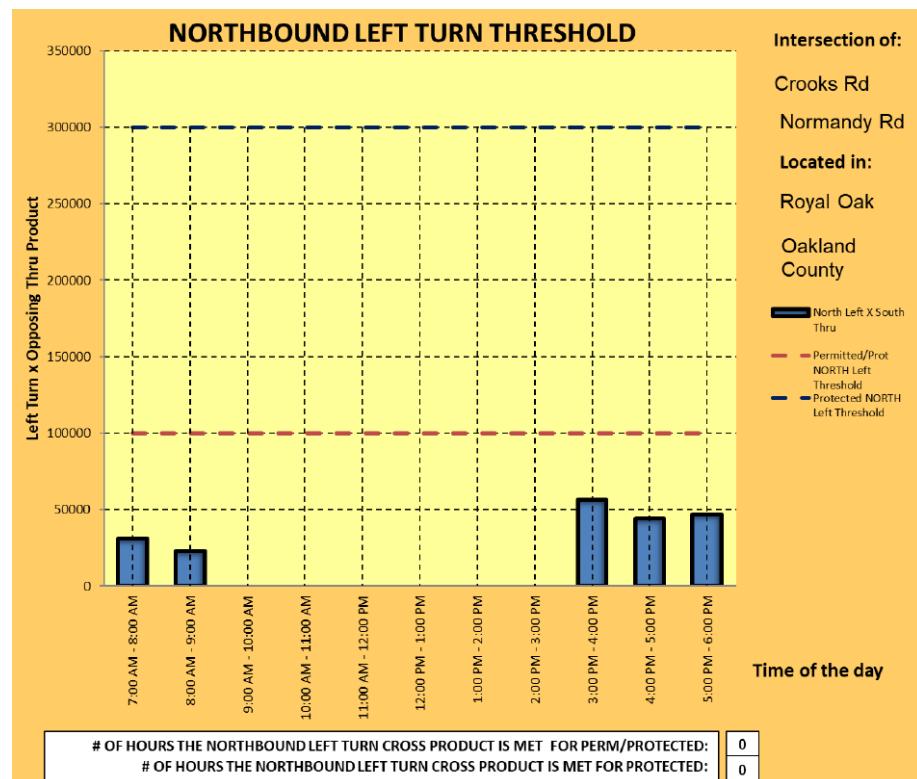


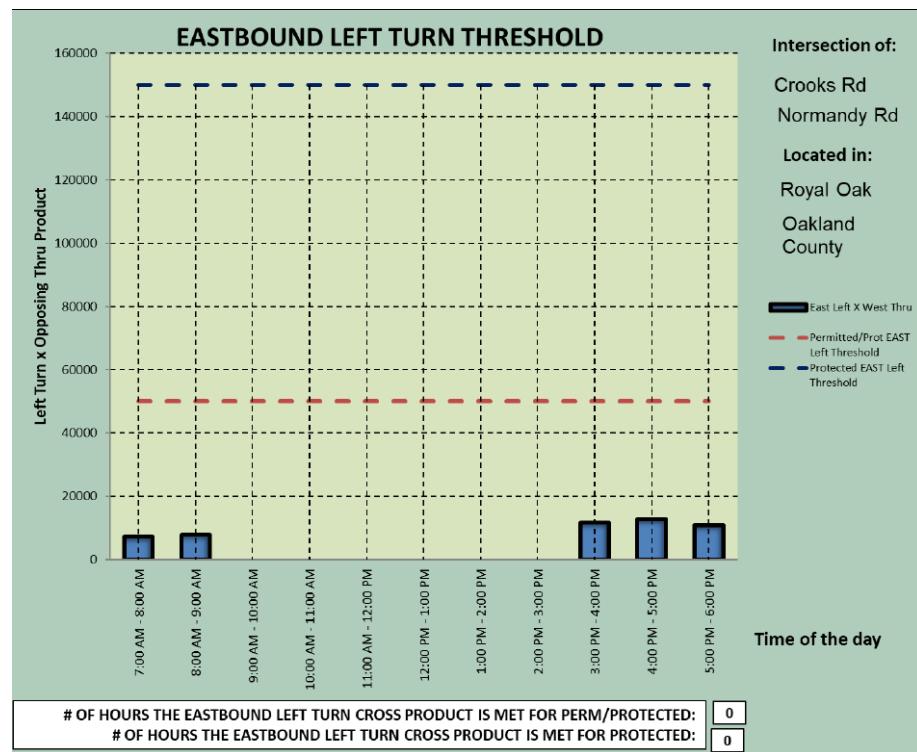
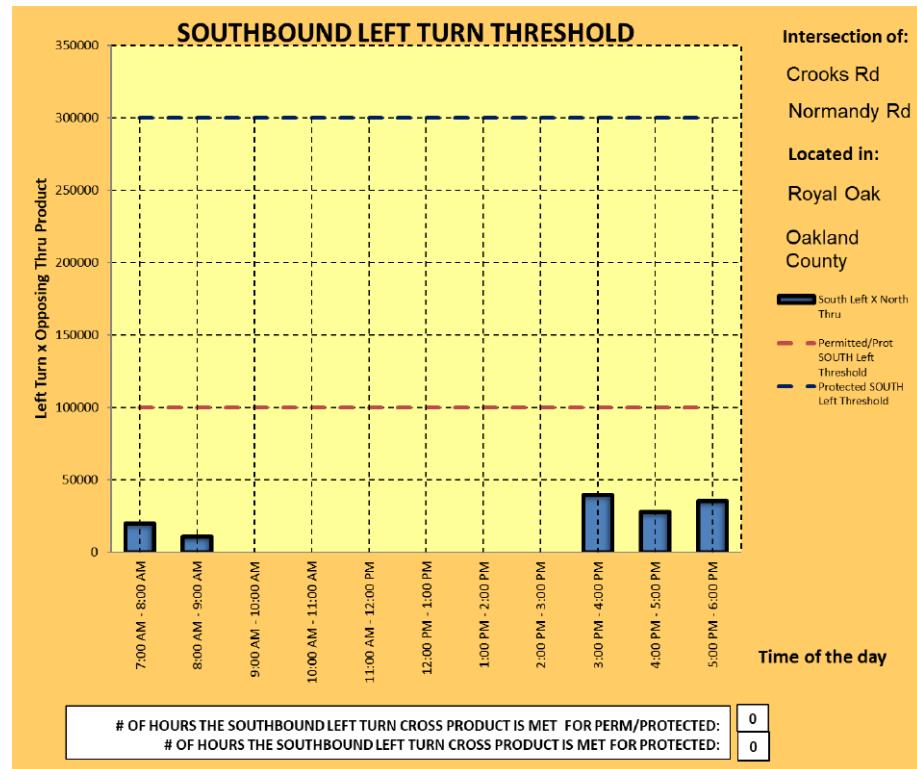
7. Upon request of the city, the Transportation Improvement Association (TIA) performed a Left Turn Phase Warrant Study for each intersection using the Michigan Department of Transportation (MDOT) formulas. These studies account for site conditions, crash history and turning movement counts. These studies are attached, and a brief summary of key points follows below.
8. For Crooks/Lexington:
  - a. There is no thru-movement for Lexington traffic or northbound left turn from Crooks (T-intersection), and so the dedicated left turn analysis was performed for southbound Crooks Road traffic only.
  - b. Onsite observations showed minimal delays for motorists making left turns from Crooks Road during the AM and PM peak hours.
  - c. Of the 13 reported crashes at the intersection (2021-2023), one was a southbound angle crash that could have potentially been avoided with installation of a left turn phase signal.
  - d. The warrant study found that a left turn phase is not warranted for this signal because:
    - i. The number of left turns being made is not in significant conflict with the opposing direction of traffic for this intersection approach.
    - ii. The number of crashes is far below the threshold of five crashes within a one-year period.

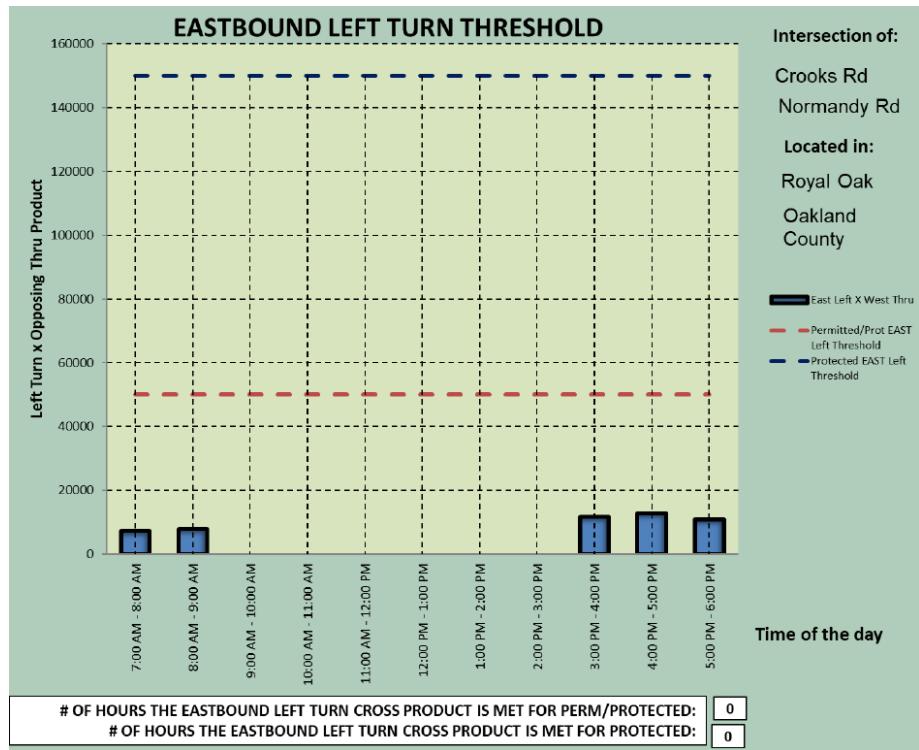


9. For Crooks/Normandy:

- a. Onsite observations showed minimal delays for motorists making left turns for all four directions during the AM and PM peak hours.
- b. Of the 29 reported crashes at the intersection (2021-2023), there were six crashes that were correctable with installation of a left turn phase signal (1 head-on left turn, 2 angle, 2 pedestrian involved, and 1 bike involved):
  - i. Two in the southbound direction
  - ii. Two in the eastbound direction
  - iii. Two in the westbound direction
- c. The warrant study found that a left turn phase is not warranted for this signal because:
  - i. The number of left turns being made is not in significant conflict with the opposing direction of traffic for all approaches of the intersection.
  - ii. The number of crashes is below the threshold of five crashes within a one-year period.







**Suggested Staff Recommendation:** To not install dedicated left turn signal phases for the traffic signals at the intersections of Crooks Road & Lexington Boulevard and Crooks Road & Normandy Road.

Estimated cost: \$0



# TRANSPORTATION IMPROVEMENT ASSOCIATION

100 E. Big Beaver Rd., Suite 910, Troy, Michigan 48083

Office (248) 334-4971 • Fax (248) 475-3434

[www.tiasafety.us](http://www.tiasafety.us)

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Partner  
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Executive Vice President  
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Road Commission for Oakland County

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Wayne County

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Sheriff  
Macomb County

March 21, 2024

Holly J. Donoghue, P.E.  
City Engineer  
City of Royal Oak  
203 S. Troy Street  
Royal Oak, MI 48067

### Re: Crooks Rd & Lexington Blvd, Left Turn Signal Study

Dear Ms., Donoghue, P.E.,

At your request, the Transportation Improvement Association (TIA) conducted a study of the Crooks Road and Lexington Boulevard intersection to determine if a left turn phase traffic signal operation is warranted for the southbound approach. This study was prompted by concerns for the ability to safely make a left turn movement at the intersection during peak hours of traffic flow, including morning arrival and afternoon dismissal periods of the Royal Oak High School located west of the intersection. For this evaluation, TIA conducted a site visit to assess existing conditions, reviewed crash history, and conducted a vehicular turning movement count.

### EXISTING CONDITIONS

A site visit was conducted on Monday, March 11, 2024, to observe existing conditions and traffic flow during the morning peak hours of 7-9 and the afternoon peak hours of 3-6 PM. This is a T-intersection with Crooks Road running north-south and Lexington Boulevard running east-west as the stem of the T on the east side. The Crooks Road approaches have 5-lanes, 2-lanes in each direction with a left turn lane on the southbound approach and a pedestrian refuge island in the middle on the northbound approach. The Lexington Boulevard approach has 4-lanes, 2-lanes in each direction separated by a median island. The speed limit on Crooks Road is 35 MPH and on Lexington Boulevard is 25 MPH. There are pedestrian crossings on all legs of the intersection that have countdown pedestrian crossing signal indications and special emphasis pavement markings. The City of Royal Oak has jurisdiction of the roads and the traffic signal at the intersection.

Observations of traffic during the AM peak hours observed minimal delays for motorists making left turns in the southbound direction and no delays in the westbound direction. Observations of traffic during the PM peak hours was the same.

### CRASH HISTORY

A review of the 3-year (2021-2023) crash history for the intersection of Crooks Road and Lexington Boulevard found 13 reported crashes. Two separate reports were produced due to the median island cross-section of Lexington Boulevard and the way crashes are reported in the system. See attached crash summary reports and intersection collision summary diagrams. In review of these crashes, there was 1 angle crash that was possible correctable with installation of a left turn phase signal. This crash occurred in the southbound direction.

## TURNING MOVEMENT COUNT & WARRANT STUDY

Left-turn phasing should only be approved and installed after a comprehensive engineering study indicates such an operation is necessary for the safe and efficient operation of an intersection. The type of left-turn phasing is determined based on data from the engineering study which includes the amount of delay experienced by left-turning traffic, crash patterns that may be occurring, and available capacity of the intersection.

The warrant study for left turn phasing found that a left turn phase is not warranted at the present time for the southbound approach at this T-intersection. The number of left turns being made is not in significant conflict with the opposing direction of traffic for this intersection approach. This includes the morning arrival and afternoon dismissal periods of the Royal Oak High School. The need for a left turn phase signal shall be considered if five or more reported crashes of types susceptible to correction by installation of the signal, have occurred within a 12-month period. Crashes that have occurred are below this threshold. See the warrant study report.

## CONCLUSION AND RECOMMENDATION

The current traffic signal operations at this intersection are sufficient for the existing approach volumes and turning movements. No changes are recommended.

Please don't hesitate to contact me if you have any questions or comments.

Respectfully,



**Chuck Keller, P.E.**  
Director of Engineering  
Chief Traffic Engineer

Attachments  
C: Monica Yesh, TIA



## Crash Report, Crooks Rd &amp; Lexington Blvd (EB)

Request #: 0058483

Printed By: Chuck Keller

Printed On: 2/29/2024

STATE:	MI
STAT_YEAR:	3-Year 2021-2023
Location ID:	100013144

**#1 Location:** CROOKS RD (1.91) 42 feet S of LEXINGTON BLVD **Crash ID:** 2245045

Crash Date: 03/25/2021 Day: Thu Hour: 8pm Weather: cloudy Roadway: dry Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: ss-opp

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 210009223

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	other	veh in transpt	none	none	none	left of center	pickup	lftside
2	N	go straight	veh in transpt	none	none	none	none	pickup	lftside

**UD-10:** 2245045**#2 Location:** LEXINGTON BLVD (0.00) 50 feet N of CROOKS RD **Crash ID:** 2413497

Crash Date: 10/18/2021 Day: Mon Hour: 2pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 210033696

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn	veh in transpt	none	none	none	failed to yield	car	ctrfront
2	S	go straight	veh in transpt	none	none	none	none	car	rtside

**UD-10:** 2413497**#3 Location:** CROOKS RD (1.88) 201 feet S of LEXINGTON BLVD **Crash ID:** 2516469

Crash Date: 02/04/2022 Day: Fri Hour: 6am Weather: snow Roadway: snow Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220004075

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	go straight	loss of control	traffic sign post	tree	none	other	car	lftfront

**UD-10:** 2516469**#4 Location:** CROOKS RD (1.90) 100 feet S of LEXINGTON BLVD **Crash ID:** 2523969

Crash Date: 02/13/2022 Day: Sun Hour: 6pm Weather: snow Roadway: snow Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: single

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220005495

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	loss of control	curb	ran off road/r	other pole	other	car	lftfront

**UD-10:** 2523969**#5 Location:** LEXINGTON BLVD (0.00) 0 feet X of CROOKS RD **Crash ID:** 2667620

Crash Date: 08/19/2022 Day: Fri Hour: 1pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 1 Inj C: 0 Inj 0: 1 How: single

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220029420

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	bicyclist	none	none	none	failed to yield	truck/bus	lftfront
2		go straight	veh in transpt	none	none	none	none	uncoded	none

**UD-10:** 2667620

**Crash Type**

Count	Type
0	uncoded
3	single
0	head-on
0	head-on/lt
1	angle
0	rr-end
0	rr-end/lt
0	rr-end/rt
0	ss-same
1	ss-opp
0	back
0	other
0	unknown
<b>Totals:</b>	<b>5</b>

**Light Conditions**

Count	Type
0	uncoded
2	day
0	dawn
0	dusk
3	dark/ltd
0	dark/unltd
0	other
0	unknown
<b>Totals:</b>	<b>5</b>

**Weather**

Count	Type
0	uncoded
2	clear
0	smoke
1	cloudy
0	fog
0	rain
2	snow
0	wind
0	sleet/hail
0	blowing snow
0	blowing sand
0	unknown
<b>Totals:</b>	<b>5</b>

**Road Condition**

Count	Type
0	uncoded
3	dry
0	oily
0	wet
0	ice
2	snow
0	mud
0	slush
0	debris
0	water
0	sand
0	other
0	unknown
<b>Totals:</b>	<b>5</b>

**Crashes By Month**

Count	Type
0	January
2	February
1	March
0	April
0	May
0	June
0	July
1	August
0	September
1	October
0	November
0	December
<b>Totals:</b>	<b>5</b>

**Hazardous Action**

Count	Type
3	none
0	speeding
0	imprp/no signal
0	imprp backing
0	unable to stop
2	other
0	unknown
0	reckls driving
0	carels driving
0	spd too slow
2	failed to yield
0	disrgd traffic cntrl
0	wrong way
1	left of center
0	imprp passing
0	imprp lane use
0	imprp turn
<b>Totals:</b>	<b>8</b>

**Unit Type**

Count	Type
1	Bicyclist
0	Engineer
7	Vehicle
0	Pedestrian
<b>Totals:</b>	<b>8</b>

**Crashes By Year**

Count	Type
0	2012
0	2013
0	2014
0	2015
0	2016
0	2017
0	2018
0	2019
0	2020
2	2021
3	2022
0	2023
0	2024
<b>Totals:</b>	<b>5</b>

**Crash Severity**

	FATAL	A	B	C	No Inj	Total
<b>Persons</b>	0	0	1	0	11	12
<b>Crashes</b>	0	0	1	0	4	5

**Alcohol in Crashes**

	FATAL	PI	PD	Total
<b>Drinking</b>	0	0	0	0
<b>Not Drinking</b>	0	1	4	5
<b>Total</b>	0	1	4	5

**Crashes per Hour by Day**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Unknown	Total
12a - 1a	0	0	0	0	0	0	0	0	0
1a - 2a	0	0	0	0	0	0	0	0	0
2a - 3a	0	0	0	0	0	0	0	0	0
3a - 4a	0	0	0	0	0	0	0	0	0
4a - 5a	0	0	0	0	0	0	0	0	0
5a - 6a	0	0	0	0	0	0	0	0	0
6a - 7a	0	0	0	0	0	1	0	0	1
7a - 8a	0	0	0	0	0	0	0	0	0
8a - 9a	0	0	0	0	0	0	0	0	0
9a - 10a	0	0	0	0	0	0	0	0	0
10a - 11a	0	0	0	0	0	0	0	0	0
11a - 12p	0	0	0	0	0	0	0	0	0
12p - 1p	0	0	0	0	0	0	0	0	0
1p - 2p	0	0	0	0	0	1	0	0	1
2p - 3p	0	1	0	0	0	0	0	0	1
3p - 4p	0	0	0	0	0	0	0	0	0
4p - 5p	0	0	0	0	0	0	0	0	0
5p - 6p	0	0	0	0	0	0	0	0	0
6p - 7p	1	0	0	0	0	0	0	0	1
7p - 8p	0	0	0	0	0	0	0	0	0
8p - 9p	0	0	0	0	1	0	0	0	1
9p - 10p	0	0	0	0	0	0	0	0	0
10p - 11p	0	0	0	0	0	0	0	0	0
11p - 12a	0	0	0	0	0	0	0	0	0
Unknown Time	0	0	0	0	0	0	0	0	0
<b>Total</b>	1	1	0	0	1	2	0	0	5



## Crash Report, Crooks Rd &amp; Lexington Blvd, 3-Year 2

Request #: 0058478

Printed By: Chuck Keller

Printed On: 2/29/2024

STATE:	MI
STAT_YEAR:	3-Year 2021-2023
Location ID:	235798

**#1 Location:** CROOKS RD (1.92) 0 feet X of LEXINGTON BLVD **Crash ID:** 2391331

**Crash Date:** 09/28/2021 **Day:** Tue **Hour:** 3pm **Weather:** clear **Roadway:** dry **Light:** day

**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 2 **How:** angle

**CVT:** Royal Oak **Area:** w/i intersection **HBD:** N **Drugs:** N **Complaint No:** 210031530

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn	veh in transpt	none	none	none	failed to yield	car	rtrear
2	N	go straight	veh in transpt	none	none	none	none	car	lftfront

**UD-10:** 2391331

**#2 Location:** CROOKS RD (1.94) 100 feet N of LEXINGTON BLVD **Crash ID:** 2474766

**Crash Date:** 12/20/2021 **Day:** Mon **Hour:** 4pm **Weather:** clear **Roadway:** dry **Light:** dawn

**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 3 **How:** angle

**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 210040634

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn	veh in transpt	none	none	none	failed to yield	car	ctrfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftside

**UD-10:** 2474766

**#3 Location:** CROOKS RD (1.92) 21 feet N of LEXINGTON BLVD **Crash ID:** 2549534

**Crash Date:** 03/18/2022 **Day:** Fri **Hour:** 3pm **Weather:** cloudy **Roadway:** dry **Light:** day

**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 1 **Inj 0:** 2 **How:** rr-end

**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 220009854

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	S	go straight	veh in transpt	veh in transpt	none	none	none	car	ctrrear
3	S	go straight	veh in transpt	none	none	none	none	car	ctrrear

**UD-10:** 2549534

**#4 Location:** CROOKS RD (1.92) 25 feet N of LEXINGTON BLVD **Crash ID:** 2745546

**Crash Date:** 11/10/2022 **Day:** Thu **Hour:** 6pm **Weather:** clear **Roadway:** dry **Light:** dark/ltd

**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 4 **How:** rr-end

**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 220040538

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1		go straight	veh in transpt	none	none	none	unknown	pickup	
2	N	go straight	veh in transpt	none	none	none	none	car	ctrrear

**UD-10:** 2745546

**#5 Location:** CROOKS RD (1.92) 25 feet NW of LEXINGTON BLVD **Crash ID:** 2784209

**Crash Date:** 12/23/2022 **Day:** Fri **Hour:** 9am **Weather:** snow **Roadway:** ice **Light:** day

**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 2 **How:** rr-end

**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 220045741

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	slow/stop on rd	veh in transpt	none	none	none	unable to stop	car	ctrfront

2 N stop on road veh in transpt none none none none car ctrrear

**UD-10: 2784209**

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#6 Location: CROOKS RD (1.93) 50 feet N of LEXINGTON BLVD Crash ID: 2889460  
 Crash Date: 05/06/2023 Day: Sat Hour: 11am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 1 Inj C: 0 Inj 0: 1 How: angle  
 CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 230015929

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn	veh in transpt	none	none	none	failed to yield	car	lftfront
2	S	go straight	veh in transpt	none	none	none	none	car	ctrfront

UD-10: [2889460](#)

#7 Location: CROOKS RD (1.92) 15 feet N of LEXINGTON BLVD Crash ID: 2956464  
 Crash Date: 07/30/2023 Day: Sun Hour: 6pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 230027218

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	right turn	veh in transpt	none	none	none	failed to yield	car	ctrfront
2	S	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: [2956464](#)

#8 Location: CROOKS RD (1.94) 100 feet N of LEXINGTON BLVD Crash ID: 3076756  
 Crash Date: 12/07/2023 Day: Thu Hour: 7am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: ss-same  
 CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 230042617

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	change lanes	veh in transpt	none	none	none	imprp lane use	car	lftside
2	N	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: [3076756](#)

**Crash Type**

Count	Type
0	uncoded
0	single
0	head-on
0	head-on/lt
4	angle
3	rr-end
0	rr-end/lt
0	rr-end/rt
1	ss-same
0	ss-opp
0	back
0	other
0	unknown
<b>Totals:</b> 8	

**Light Conditions**

Count	Type
0	uncoded
6	day
1	dawn
0	dusk
1	dark/ltd
0	dark/unltd
0	other
0	unknown
<b>Totals:</b> 8	

**Weather**

Count	Type
0	uncoded
6	clear
0	smoke
1	cloudy
0	fog
0	rain
1	snow
0	wind
0	sleet/hail
0	blowing snow
0	blowing sand
0	unknown
<b>Totals:</b> 8	

**Road Condition**

Count	Type
0	uncoded
7	dry
0	oily
0	wet
1	ice
0	snow
0	mud
0	slush
0	debris
0	water
0	sand
0	other
0	unknown
<b>Totals:</b> 8	

**Crashes By Month**

Count	Type
0	January
0	February
1	March
0	April
1	May
0	June
1	July
0	August
1	September
0	October
1	November
3	December
<b>Totals:</b> 8	

**Hazardous Action**

Count	Type
9	none
0	speeding
0	imprp/no signal
0	imprp backing
2	unable to stop
0	other
1	unknown
0	reckls driving
0	carels driving
0	spd too slow
4	failed to yield
0	disrgd traffic cntrl
0	wrong way
0	left of center
0	imprp passing
1	imprp lane use
0	imprp turn
<b>Totals:</b> 17	

**Unit Type**

Count	Type
0	Bicyclist
0	Engineer
17	Vehicle
0	Pedestrian
<b>Totals:</b> 17	

**Crashes By Year**

Count	Type
0	2012
0	2013
0	2014
0	2015
0	2016
0	2017
0	2018
0	2019
0	2020
2	2021
3	2022
3	2023
0	2024
<b>Totals:</b> 8	

**Crash Severity**

	FATAL	A	B	C	No Inj	Total
<b>Persons</b>	0	0	1	1	18	20
<b>Crashes</b>	0	0	1	1	6	8

**Alcohol in Crashes**

	FATAL	PI	PD	Total
<b>Drinking</b>	0	0	0	0
<b>Not Drinking</b>	0	2	6	8
<b>Total</b>	0	2	6	8

**Crashes per Hour by Day**

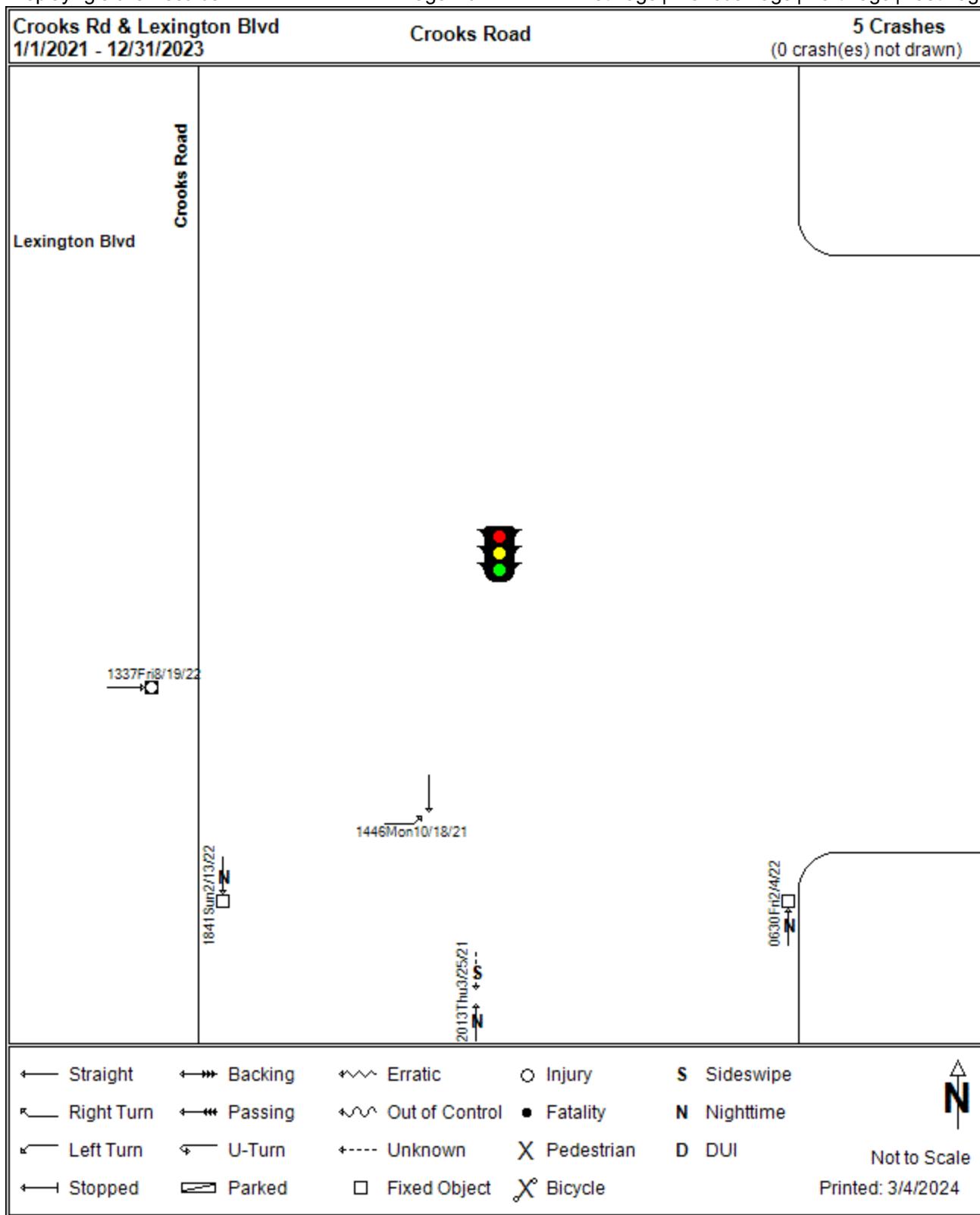
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Unknown	Total
12a - 1a	0	0	0	0	0	0	0	0	0
1a - 2a	0	0	0	0	0	0	0	0	0
2a - 3a	0	0	0	0	0	0	0	0	0
3a - 4a	0	0	0	0	0	0	0	0	0
4a - 5a	0	0	0	0	0	0	0	0	0
5a - 6a	0	0	0	0	0	0	0	0	0
6a - 7a	0	0	0	0	0	0	0	0	0
7a - 8a	0	0	0	0	1	0	0	0	1
8a - 9a	0	0	0	0	0	0	0	0	0
9a - 10a	0	0	0	0	0	1	0	0	1
10a - 11a	0	0	0	0	0	0	0	0	0
11a - 12p	0	0	0	0	0	0	1	0	1
12p - 1p	0	0	0	0	0	0	0	0	0
1p - 2p	0	0	0	0	0	0	0	0	0
2p - 3p	0	0	0	0	0	0	0	0	0
3p - 4p	0	0	1	0	0	1	0	0	2
4p - 5p	0	1	0	0	0	0	0	0	1
5p - 6p	0	0	0	0	0	0	0	0	0
6p - 7p	1	0	0	0	1	0	0	0	2
7p - 8p	0	0	0	0	0	0	0	0	0
8p - 9p	0	0	0	0	0	0	0	0	0
9p - 10p	0	0	0	0	0	0	0	0	0
10p - 11p	0	0	0	0	0	0	0	0	0
11p - 12a	0	0	0	0	0	0	0	0	0
Unknown Time	0	0	0	0	0	0	0	0	0
<b>Total</b>	1	1	1	0	2	2	1	0	8

# STATE OF MICHIGAN TRAFFIC CRASH REPORT

UNIT / DRIVER	Unit Number 02	Unit Known Yes	State MI	Driver License Number ##### (35)	Date of Birth (Age) ##/##/## (35)	License Type ● Operator ○ Chauffeur ○ Moped	Endorsements ○ Cycle ○ Farm ○ Recreation	Sex F	Race W	Total Occupants 01	Hazardous Action None		
	Unit Type MV	Driver Information ##### ##### CLAWSON, MI 48017-1618 (##) ##-##				Driver is Owner Yes	Injury O	Position Front - Left			Restraint Shoulder and Lap Belt		
	Driver Condition at Time of Crash 1st Appeared Normal					Driver Distracted By Not Distracted			Ejected	Trapped	Airbag Deployed Not Deployed		
	Hospital NONE					Ambulance NONE							
	Alcohol Suspected No	Contributing Factor No	Alcohol Test Type ○ Breath ○ Blood ○ Field ○ PBT ○ Refused ● Not Offered	Alcohol Test Results ○ Pending	Test Results:			Interlock Device No					
	Drug Suspected No	Contributing Factor No	Drug Test Type ○ Blood ○ Urine ○ Field ○ Refused ● Not Offered	Drug Test Results ○ Pending	Test Results:			Citation Issued ○ Hazardous ○ Other					
	Vehicle Registration EMZ4568	State MI	Vehicle Description 2019	Year 2019	Make CHEVROLET	Model EQUINOX	Color BLACK						
	VIN 3GNAXKEVXKL212384	Vehicle Type Passenger Car, SUV, Van	Special Vehicles Not Applicable			Private Trailer Type	Vehicle Defect						
	Automation System(s) in Vehicle No	Automation System Level in Vehicle No Automation				Automation System Level Engaged at Time of Crash No Automation							
	Insurance Company #####			Insurance Policy # #####		Towed By			Towed To				
Location of Greatest Damage 08	First Impact 08	Extent of Damage (Power Unit and/or Trailers) Minor Damage	Vehicle Direction N	Vehicle Use Private	Action Prior Going Straight Ahead								
Sequence of Events (● indicates MOST harmful event)	First ● 17 - Motor Veh in Transport	Second	Third	Fourth									
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint					
					Injury	Ejected	Trapped	Airbag Deployed					
	Hospital			Ambulance									
	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint					
					Injury	Ejected	Trapped	Airbag Deployed					
	Hospital			Ambulance									
	Carrier Information					USDOT			MC		MPSC		
						Driver's CDL Type O H O P O T O N O S O X	Endorsements ○ H O P O T ○ N O S O X		CDL Exempt ○ Farm ○ Other				
	GVWR/GCWR ○ 10,000 lbs. or Less ○ 10,001 - 26,000 lbs. ○ Greater than 26,000 lbs.	Vehicle Configuration			Cargo Body Type	Medical Card		Hazardous Material ○ Placard ○ Cargo Spill	ID #	Class #			
	Owner Information ##### ##### #####, # #####-#### (##) ####-####					Owner Information							
WITNESS	Witness Information				Witness Information								
	Investigated at Scene Yes	Reported Date (Time) 09/28/2021 (15:27)	1st Investigator Name (Badge) HERTZ (487)	2nd Investigator Name (Badge)			Photos No						
<p>Narrative</p> <p>UNIT ONE WAS MAKING A LEFT TURN ON CROOKS RD ONTO LEXINGTON, WHEN SHE BEGAN TO ENTER IN THE WRONG SIDE OF THE MEDIAN. UNIT ONE WENT BACK INTO THE ROADWAY TO GO INTO THE CORRECT LANE OF TRAVEL AND STRUCK UNIT TWO, A N/B VEHICLE. UNIT ONE CONTACTED ROPD AND MADE A REPORT AT THE SCENE. UNIT TWO STATED SHE COULD NOT FIND WHERE UNIT ONE PULLED OFF TO AND CAME TO THE POLICE STATION TO MAKE THE POLICE REPORT. THERE WAS MINOR DAMAGE ON BOTH VEHICLES AND NO INJURIES.</p>					<p>Diagram</p> <p>Not To Scale</p> <p>CROOKS RD</p> <p>LEXINGTON</p> <p>UNIT 1</p> <p>UNIT 2</p>								

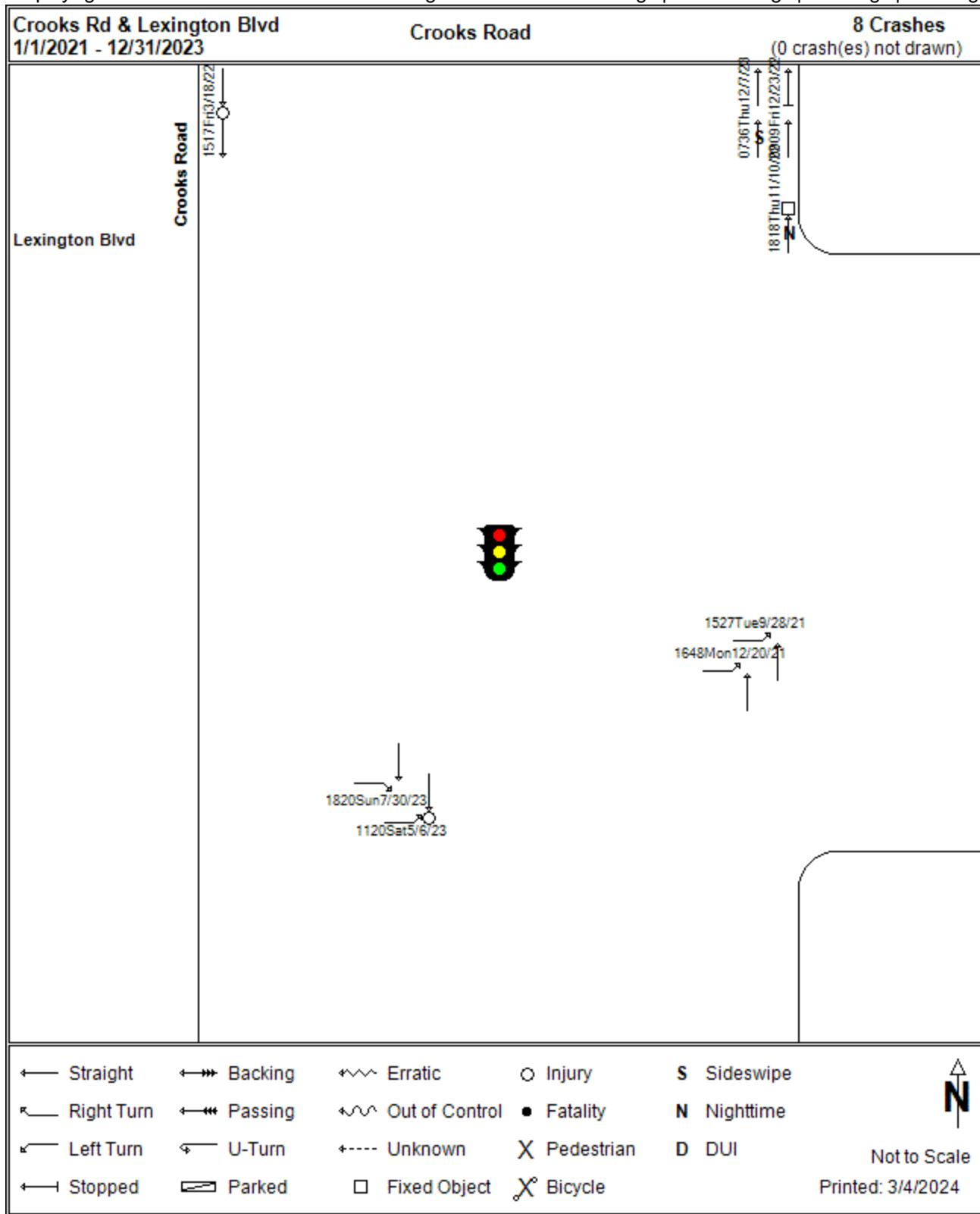
Displaying 5 of 5 Records

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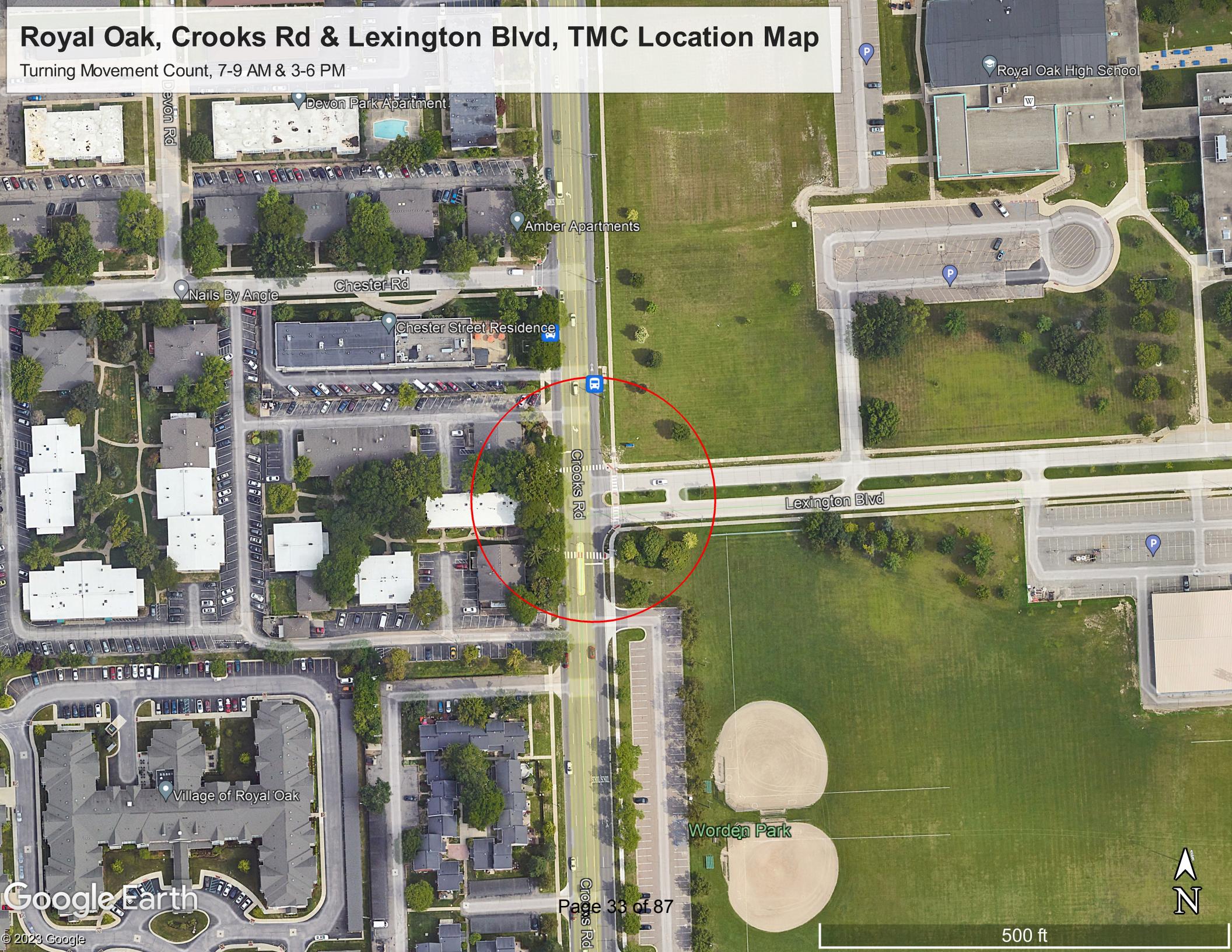
Displaying 8 of 8 Records

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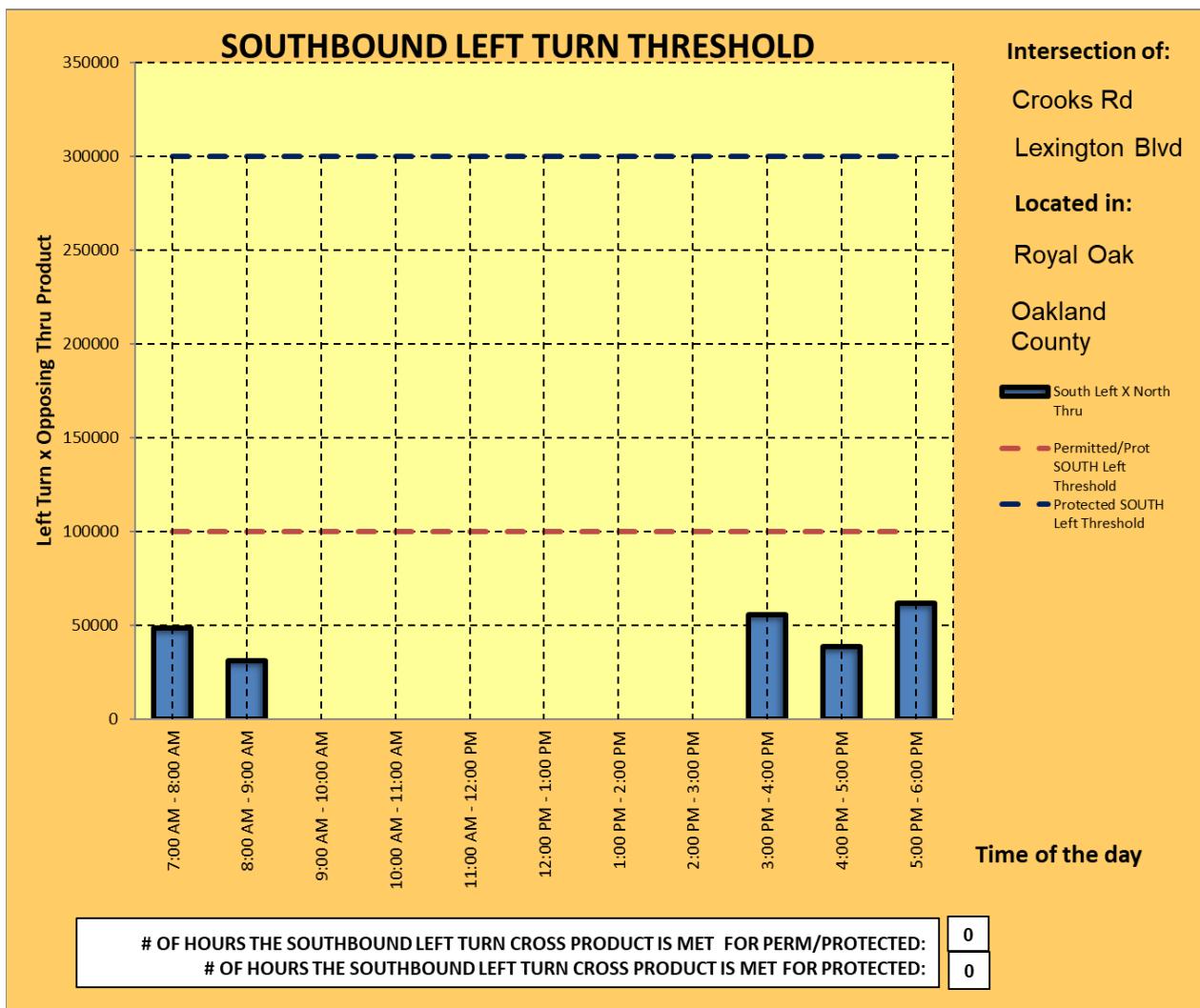
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# Royal Oak, Crooks Rd & Lexington Blvd, TMC Location Map

Turning Movement Count, 7-9 AM & 3-6 PM



File Name:	Crooks Rd & Lexington Blvd TMC															
Start Date:	3/11/2024															
Start Time:	7:00:00 AM															
Site Code:																
Street 1:	Crooks Rd															
Street 2:	Lexington Blvd															
City/Township:	Royal Oak															
County:	Oakland County															
Start Time	SB FROM Crooks Rd From North				WB FROM From East				NB FROM Crooks Rd From South				EB FROM Lexington Blvd From West			
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds
07:00 AM	0	109	2	0	6	0	1	1	10	175	0	0	0	0	0	0
07:15 AM	0	203	11	0	7	0	11	0	14	159	0	0	0	0	0	0
07:30 AM	0	196	14	0	35	0	59	5	71	259	0	0	0	0	0	0
07:45 AM	0	169	22	0	44	0	98	2	68	229	0	0	0	0	0	0
08:00 AM	0	131	11	0	11	0	18	0	9	149	0	0	0	0	0	0
08:15 AM	0	137	14	0	7	0	6	0	15	214	0	0	0	0	0	0
08:30 AM	0	145	5	0	13	0	8	0	7	207	0	0	0	0	0	0
08:45 AM	0	134	8	0	9	0	6	1	3	215	0	2	0	0	0	0
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	173	20	4	39	0	30	3	28	190	0	2	0	0	0	0
03:15 PM	0	180	18	2	33	0	23	2	24	196	0	2	0	0	0	0
03:30 PM	0	178	14	1	18	0	17	1	25	187	0	1	0	0	0	0
03:45 PM	0	183	12	1	14	0	10	0	26	191	0	1	0	0	0	0
04:00 PM	0	188	12	0	15	0	10	2	25	192	0	1	0	0	0	0
04:15 PM	0	214	11	2	13	0	10	2	23	197	0	1	0	0	0	0
04:30 PM	0	193	9	3	21	0	7	0	14	199	0	2	0	0	0	0
04:45 PM	0	211	12	6	39	0	12	0	33	190	0	2	0	0	0	0
05:00 PM	0	229	18	1	25	0	30	0	36	213	0	1	0	0	0	0
05:15 PM	0	302	15	1	36	0	19	2	35	180	0	2	0	0	0	0
05:30 PM	0	245	18	0	13	0	27	2	25	186	0	2	0	0	0	0
05:45 PM	0	187	18	0	9	0	13	3	30	191	0	2	0	0	0	0





# TRANSPORTATION IMPROVEMENT ASSOCIATION

100 E. Big Beaver Rd., Suite 910, Troy, Michigan 48083

Office (248) 334-4971 • Fax (248) 475-3434

[www.tiasafety.us](http://www.tiasafety.us)

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March 21, 2024

Holly J. Donoghue, P.E., City Engineer  
City of Royal Oak  
203 S. Troy Street  
Royal Oak, MI 48067

### Re: Crooks Rd & Normandy Rd, Left Turn Signal Study

Dear Ms., Donoghue, P.E.,

At your request, the Transportation Improvement Association (TIA) conducted a study of the Crooks Road and Normandy Road intersection to determine if a left turn phase traffic signal operation is warranted. This study was prompted by concerns for the ability to safely make a left turn movement at the intersection during peak hours of traffic flow, including morning arrival and afternoon dismissal periods of the Royal Oak High School located west of the intersection. For this evaluation, TIA conducted a site visit to assess existing conditions, reviewed crash history, and conducted a vehicular turning movement count.

### EXISTING CONDITIONS

A site visit was conducted on Monday, March 4, 2024, to observe existing conditions and traffic flow during the morning peak hours of 7-9 and the afternoon peak hours of 3-6 PM. This is a 4-leg intersection with Crooks Road running north-south and Normandy Road running east-west. The Crooks Road approaches having 5-lanes, 2-lanes in each direction with a left turn lane. Normandy Road approaches have 3-lanes, 1-lane in each direction with a left turn lane. The speed limit on Crooks Road is 35 MPH and on Normandy Road is 25 MPH. There are pedestrian crossings on all four legs of the intersection that have countdown pedestrian crossing signal indications and special emphasis pavement markings. The City of Royal Oak has jurisdiction of the roads and the traffic signal at the intersection.

Observations of traffic during the AM peak hours observed minimal delays for motorists making left turns in the southbound and northbound directions, and minimal delays for the eastbound and westbound directions. Observations of traffic during the PM peak hours was the same.

### CRASH HISTORY

A review of the 3-year (2021-2023) crash history for the intersection of Crooks Road and Normandy Road found 29 reported crashes. See attached crash summary report and intersection collision summary diagram. In review of these crashes there were 6 crashes (1 head-on left turn, 2 angle, 2 pedestrian involved, and 1 bike involved), that were possible correctable with installation of a left turn phase signal, 2 in the southbound direction, 2 in the eastbound direction, and 2 in the westbound direction.

### TURNING MOVEMENT COUNT & WARRANT STUDY

Left-turn phasing should only be approved and installed after a comprehensive engineering study indicates such an operation is necessary for the safe and efficient operation of an intersection. The type of left-turn phasing is determined based on data from the engineering study which includes the amount of delay experienced by left-turning traffic, crash patterns that may be occurring, and available capacity of the intersection.

The warrant study for left turn phasing found that a left turn phase is not warranted at the present time for the northbound-southbound, or the eastbound-westbound approaches at this intersection. The number of left turns being made is not in significant conflict with the opposing direction of traffic for the intersection approaches. This includes the morning arrival and afternoon dismissal periods of the Royal Oak High School. The need for a left turn phase signal shall be considered if five or more reported crashes of types susceptible to correction by installation of the signal, have occurred within a 12-month period. Crashes that have occurred are below this threshold. See the attached warrant study reports for each direction of travel.

### **CONCLUSION AND RECOMMENDATION**

The current traffic signal operations at this intersection are sufficient for the existing approach volumes and turning movements. No changes are recommended.

Please don't hesitate to contact me if you have any questions or comments.

Respectfully,



**Chuck Keller, P.E.**  
Director of Engineering  
Chief Traffic Engineer

Attachments  
C: Monica Yesh, TIA



## Crash Report, Crooks Rd &amp; Normandy Rd

Request #: 0058477

Printed By: Chuck Keller

Printed On: 2/29/2024

STATE:	MI
STAT_YEAR:	3-Year 2021-2023
Location ID:	235369

**#1 Location:** CROOKS (2.17) 148 feet S of NORMANDY **Crash ID:** 2249751

Crash Date: 03/22/2021 Day: Mon Hour: 4pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: other

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 210008872

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	left turn	veh in transpt	none	none	none	failed to yield	car	ctrfront
2	N	go straight	veh in transpt	none	none	none	speeding	car	rtfront

**UD-10:** 2249751**#2 Location:** NORMANDY RD (1.99) 0 feet X of CROOKS RD **Crash ID:** 2249180

Crash Date: 03/31/2021 Day: Wed Hour: 12am Weather: rain Roadway: wet Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 210009841

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	failed to yield	car	rtfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftfront

**UD-10:** 2249180**#3 Location:** NORMANDY RD (1.99) 0 feet X of CROOKS RD **Crash ID:** 2287351

Crash Date: 05/22/2021 Day: Sat Hour: 9am Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: angle

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 210015576

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	go straight	veh in transpt	none	none	none	none	car	lftside
2	E	go straight	veh in transpt	none	none	none	none	car	ctrfront

**UD-10:** 2287351**#4 Location:** NORMANDY RD (1.99) 0 feet X of CROOKS RD **Crash ID:** 2374904

Crash Date: 09/10/2021 Day: Fri Hour: 7pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 1 Inj C: 0 Inj 0: 1 How: other

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 210029637

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	left turn	bicyclist	none	none	none	failed to yield	car	ctrfront
2	E	go straight	veh in transpt	none	none	none	none	uncoded	none

**UD-10:** 2374904**#5 Location:** CROOKS RD (2.20) 0 feet X of NORMANDY RD **Crash ID:** 2382058

Crash Date: 09/18/2021 Day: Sat Hour: 10pm Weather: clear Roadway: dry Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: angle

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 210030552

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	failed to yield	car	rtrear
2	S	go straight	veh in transpt	none	none	none	none	car	rtfront



#6 Location: CROOKS RD (2.20) 20 feet N of NORMANDY RD

Crash ID: 2439069

Crash Date: 11/12/2021 Day: Fri Hour: 10pm Weather: unknown Roadway: unknown Light: unknown

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 210036502

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	S	stop on road	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 2439069

#7 Location: CROOKS RD (2.20) 26 feet N of NORMANDY RD Crash ID: 2489554

Crash Date: 01/05/2022 Day: Wed Hour: 3pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220000599

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	none	car	rtside
2	W	nodriver parked	veh in transpt	none	none	none	imprp backing	car	ctrrear

UD-10: 2489554

#8 Location: CROOKS RD (2.23) 201 feet N of NORMANDY RD Crash ID: 2507701

Crash Date: 01/25/2022 Day: Tue Hour: 12pm Weather: clear Roadway: wet Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 1 How: ss-opp

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220002868

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	go straight	veh in transpt	none	none	none	other	car	lftfront
2	S	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 2507701

#9 Location: CROOKS RD (2.20) 0 feet X of NORMANDY RD Crash ID: 2517478

Crash Date: 02/05/2022 Day: Sat Hour: 3pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: other

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 220004286

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	disrgd traffic cntrl	car	rtfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftfront
3	W	stop on road	veh in transpt	none	none	none	none	car	ctrfront

UD-10: 2517478

#10 Location: CROOKS RD (2.19) 32 feet E of NORMANDY RD Crash ID: 2521071

Crash Date: 02/11/2022 Day: Fri Hour: 7am Weather: snow Roadway: ice Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220005055

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	right turn	loss of control	veh in transpt	none	none	other	car	lftfront
2	W	stop on road	veh in transpt	none	none	none	none	car	lftfront

UD-10: 2521071

#11 Location: CROOKS RD (2.20) 0 feet X of NORMANDY RD Crash ID: 2555711

Crash Date: 02/22/2022 Day: Tue Hour: 11am Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: head-on/lateral

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 220006714

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	SE	left turn	veh in transpt	none	none	none	failed to yield	car	rtside
2	N	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 2555711

#12 Location: CROOKS RD (2.19) 11 feet S of NORMANDY RD Crash ID: 2534550

Crash Date: 02/26/2022 Day: Sat Hour: 3pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rear-end

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220007332

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	N	stop on road	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 2534550

#13 Location: CROOKS RD (2.20) 0 feet X of NORMANDY RD Crash ID: 2558868

Crash Date: 04/02/2022 Day: Sat Hour: 11pm Weather: cloudy Roadway: dry Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 220011665

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	failed to yield	car	ctrfront
2	S	go straight	veh in transpt	none	none	none	none	car	rtrear

UD-10: 2558868

#14 Location: CROOKS RD (2.19) 11 feet E of NORMANDY RD Crash ID: 2561031

Crash Date: 04/05/2022 Day: Tue Hour: 1pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 220011953

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	go straight	veh in transpt	none	none	none	disrgd traffic cntrl	car	rtfront
2	W	start on rdwy	veh in transpt	none	none	none	none	pickup	lftrear

UD-10: 2561031

#15 Location: NORMANDY RD (1.99) 0 feet X of CROOKS RD Crash ID: 2571626

Crash Date: 04/16/2022 Day: Sat Hour: 10pm Weather: cloudy Roadway: dry Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 2 Inj C: 0 Inj 0: 4 How: angle

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 220001765

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	failed to yield	car	ctrfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftside
3		stop on road	veh in transpt	none	none	none	unknown	car	

UD-10: 2571626

#16 **Location:** NORMANDY RD (1.99) 0 feet X of CROOKS RD **Crash ID:** 2589515  
**Crash Date:** 05/13/2022 **Day:** Fri **Hour:** 2pm **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 3 **How:** angle  
**CVT:** Royal Oak **Area:** w/i intersection **HBD:** N **Drugs:** N **Complaint No:** 220016598

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	disrgd traffic cntrl	pickup	rtside
2	E	start on rdwy	veh in transpt	none	none	none	none	car	lftfront

**UD-10:** [2589515](#)

#17 **Location:** CROOKS RD (2.19) 26 feet S of NORMANDY RD **Crash ID:** 2613977  
**Crash Date:** 06/12/2022 **Day:** Sun **Hour:** 2pm **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 1 **Inj 0:** 1 **How:** rr-end  
**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 220020578

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	N	stop on road	veh in transpt	none	none	none	none	car	ctrrear

**UD-10:** [2613977](#)

#18 **Location:** CROOKS RD (2.21) 100 feet N of NORMANDY RD **Crash ID:** 2615723  
**Crash Date:** 06/14/2022 **Day:** Tue **Hour:** 3pm **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 1 **Inj 0:** 1 **How:** rr-end  
**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 220020829

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	S	slow/stop on rd	veh in transpt	none	none	none	none	car	ctrrear

**UD-10:** [2615723](#)

#19 **Location:** CROOKS RD (2.19) 55 feet S of NORMANDY RD **Crash ID:** 2688904  
**Crash Date:** 09/19/2022 **Day:** Mon **Hour:** 5pm **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 3 **How:** angle  
**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 220033903

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	leaving parking	veh in transpt	none	none	none	failed to yield	car	lftside
2	N	go straight	veh in transpt	none	none	none	none	car	ctrfront

**UD-10:** [2688904](#)

#20 **Location:** CROOKS RD (2.20) 10 feet W of NORMANDY RD **Crash ID:** 2709497  
**Crash Date:** 10/09/2022 **Day:** Sun **Hour:** 8am **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 1 **Inj C:** 2 **Inj 0:** 4 **How:** angle  
**CVT:** Royal Oak **Area:** w/i intersection **HBD:** N **Drugs:** N **Complaint No:** 220036501

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	failed to yield	car	rtrear
2	S	go straight	veh in transpt	none	none	none	none	car	ctrfront
3	E	stop on road	veh in transpt	none	none	none	none	car	lftfront

**UD-10:** [2709497](#)

#21 Location: CROOKS RD (2.20) 0 feet X of NORMANDY RD Crash ID: 2721314

Crash Date: 10/20/2022 Day: Thu Hour: 8pm Weather: clear Roadway: dry Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 220037914

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	S	slow/stop on rd	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 2721314

#22 Location: EB NORMANDY (1.99) 0 feet X of CROOKS Crash ID: 2753627

Crash Date: 11/19/2022 Day: Sat Hour: 9pm Weather: snow Roadway: ice Light: dark/ltd

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 220041622

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	SE	left turn	ran off road/l	none	none	none	speeding	car	ctrfront

UD-10: 2753627

#23 Location: CROOKS RD (2.20) 21 feet N of NORMANDY RD Crash ID: 2822922

Crash Date: 02/08/2023 Day: Wed Hour: 10am Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single

CVT: Royal Oak Area: straight HBD: N Drugs: N Complaint No: 230000662

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	NE	left turn	pedestrian	none	none	none	failed to yield	pickup	none
2		crossing no inter	veh in transpt	none	none	none	none	uncoded	none

UD-10: 2822922

#24 Location: NORMANDY RD (1.99) 0 feet X of CROOKS RD Crash ID: 2885537

Crash Date: 05/01/2023 Day: Mon Hour: 8am Weather: cloudy Roadway: wet Light: day

Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 2 How: angle

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 230015231

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	left turn	veh in transpt	none	none	none	failed to yield	car	rtside
2	W	go straight	veh in transpt	none	none	none	none	car	ctrfront

UD-10: 2885537

#25 Location: CROOKS RD (2.20) 0 feet X of NORMANDY RD Crash ID: 3011441

Crash Date: 10/04/2023 Day: Wed Hour: 6pm Weather: clear Roadway: dry Light: day

Injuries K: 0 Inj A: 0 Inj B: 1 Inj C: 0 Inj 0: 0 How: other

CVT: Royal Oak Area: w/i intersection HBD: N Drugs: N Complaint No: 230035290

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1		left turn	pedestrian	none	none	none	none	car	
2		crossing at inter	veh in transpt	none	none	none	none	uncoded	none

UD-10: 3011441

#26 **Location:** NORMANDY RD (2.03) 200 feet E of CROOKS RD **Crash ID:** 3037389  
**Crash Date:** 10/24/2023 **Day:** Tue **Hour:** 12pm **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 2 **How:** angle  
**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 230037473

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	left turn	veh in transpt	none	none	none	failed to yield	car	lftside
2	E	go straight	veh in transpt	none	none	none	none	car	ctrfront

**UD-10:** 3037389

#27 **Location:** NORMANDY RD (1.99) 0 feet X of CROOKS RD **Crash ID:** 3064657  
**Crash Date:** 11/16/2023 **Day:** Thu **Hour:** 12pm **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 1 **How:** unknown  
**CVT:** Royal Oak **Area:** w/i intersection **HBD:** N **Drugs:** N **Complaint No:** 230040196

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	bicyclist	none	none	unknown	car	
2	W	go straight	veh in transpt	none	none	none	none	uncoded	none

**UD-10:** 3064657

#28 **Location:** CROOKS (2.20) 15 feet N of NORMANDY **Crash ID:** 3066477  
**Crash Date:** 11/25/2023 **Day:** Sat **Hour:** 8pm **Weather:** clear **Roadway:** dry **Light:** dark/ltd  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 2 **How:** rr-end  
**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 230041321

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	unable to stop	pickup	ctrfront
2	S	stop on road	veh in transpt	none	none	none	none	car	ctrrear

**UD-10:** 3066477

#29 **Location:** CROOKS RD (2.19) 10 feet S of NORMANDY RD **Crash ID:** 3070929  
**Crash Date:** 12/01/2023 **Day:** Fri **Hour:** 7am **Weather:** rain **Roadway:** wet **Light:** dark/ltd  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 2 **How:** angle  
**CVT:** Royal Oak **Area:** straight **HBD:** N **Drugs:** N **Complaint No:** 230041893

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn	veh in transpt	none	none	none	failed to yield	car	ctrfront
2	N	go straight	veh in transpt	none	none	none	failed to yield	car	ctrfront

**UD-10:** 3070929

**Crash Type**

Count	Type
0	uncoded
2	single
0	head-on
1	head-on/lt
14	angle
6	rr-end
0	rr-end/lt
0	rr-end/rt
0	ss-same
1	ss-opp
0	back
4	other
1	unknown
<b>Totals:</b> 29	

**Light Conditions**

Count	Type
0	uncoded
20	day
0	dawn
0	dusk
8	dark/ltd
0	dark/unltd
0	other
1	unknown
<b>Totals:</b> 29	

**Weather**

Count	Type
0	uncoded
21	clear
0	smoke
3	cloudy
0	fog
2	rain
2	snow
0	wind
0	sleet/hail
0	blowing snow
0	blowing sand
1	unknown
<b>Totals:</b> 29	

**Road Condition**

Count	Type
0	uncoded
22	dry
0	oily
4	wet
2	ice
0	snow
0	mud
0	slush
0	debris
0	water
0	sand
0	other
1	unknown
<b>Totals:</b> 29	

**Crashes By Month**

Count	Type
2	January
5	February
2	March
3	April
3	May
2	June
0	July
0	August
3	September
4	October
4	November
1	December
<b>Totals:</b> 29	

**Hazardous Action**

Count	Type
30	none
2	speeding
0	imprp/no signal
1	imprp backing
6	unable to stop
2	other
2	unknown
0	reckls driving
0	carels driving
0	spd too slow
14	failed to yield
3	disrgd traffic cntrl
0	wrong way
0	left of center
0	imprp passing
0	imprp lane use
0	imprp turn
<b>Totals:</b> 60	

**Unit Type**

Count	Type
2	Bicyclist
0	Engineer
56	Vehicle
2	Pedestrian
<b>Totals:</b> 60	

**Crashes By Year**

Count	Type
0	2012
0	2013
0	2014
0	2015
0	2016
0	2017
0	2018
0	2019
0	2020
6	2021
16	2022
7	2023
0	2024
<b>Totals:</b> 29	

**Crash Severity**

	FATAL	A	B	C	No Inj	Total
<b>Persons</b>	0	0	5	6	59	70
<b>Crashes</b>	0	0	4	4	21	29

**Alcohol in Crashes**

	FATAL	PI	PD	Total
<b>Drinking</b>	0	0	0	0
<b>Not Drinking</b>	0	8	21	29
<b>Total</b>	0	8	21	29

**Crashes per Hour by Day**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Unknown	Total
12a - 1a	0	0	0	1	0	0	0	0	1
1a - 2a	0	0	0	0	0	0	0	0	0
2a - 3a	0	0	0	0	0	0	0	0	0
3a - 4a	0	0	0	0	0	0	0	0	0
4a - 5a	0	0	0	0	0	0	0	0	0
5a - 6a	0	0	0	0	0	0	0	0	0
6a - 7a	0	0	0	0	0	0	0	0	0
7a - 8a	0	0	0	0	0	2	0	0	2
8a - 9a	1	1	0	0	0	0	0	0	2
9a - 10a	0	0	0	0	0	0	1	0	1
10a - 11a	0	0	0	1	0	0	0	0	1
11a - 12p	0	0	1	0	0	0	0	0	1
12p - 1p	0	0	2	0	1	0	0	0	3
1p - 2p	0	0	1	0	0	0	0	0	1
2p - 3p	1	0	0	0	0	1	0	0	2
3p - 4p	0	0	1	1	0	0	2	0	4
4p - 5p	0	1	0	0	0	0	0	0	1
5p - 6p	0	1	0	0	0	0	0	0	1
6p - 7p	0	0	0	1	0	0	0	0	1
7p - 8p	0	0	0	0	0	1	0	0	1
8p - 9p	0	0	0	0	1	0	1	0	2
9p - 10p	0	0	0	0	0	0	1	0	1
10p - 11p	0	0	0	0	0	1	2	0	3
11p - 12a	0	0	0	0	0	0	1	0	1
Unknown Time	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>29</b>

# STATE OF MICHIGAN TRAFFIC CRASH REPORT

ORI MI 6371400		Department Name Royal Oak Police Department						Reviewer MANNING (00325)		
Crash Date 09/10/2021	Crash Time 19:02	No. of Units 02	Crash Type Other	Special Circumstances <input checked="" type="radio"/> None <input type="radio"/> Fleeing Police	<input type="radio"/> Hit and Run <input type="radio"/> Unknown	<input type="radio"/> School Bus <input type="radio"/> Animal	Special Checks <input type="radio"/> Fatal <input type="radio"/> Non-Traffic Area <input type="radio"/> ORV/Snowmobile			
County 63 - Oakland	Traffic Control Signal			Relation to Roadway On the Road	Weather Clear	Area INTR Within Intersection				
City/Twsp 90 - Royal Oak	Contributing Circumstances 1st Glare				2nd	Light Daylight	Road Surface Condition Dry	Total Lanes 03	Speed Limit 25	Posted Yes
Work Zone (if applicable)		Type	Workers Present		Activity	Location				

LOCATION	Prefix	Primary Road Name <b>NORMANDY</b>	Road Type <b>RD</b>	Suffix	Divided Roadway
	Distance / Direction <b>AT</b>	Trafficway <b>Not Physically Divided</b>			
	Prefix	Intersecting Road Name <b>CROOKS</b>	Road Type <b>RD</b>	Suffix	Divided Roadway

Unit Number 01	Unit Known Yes	State MI	Driver License Number #####/#/#/#/#	Date of Birth (Age) ###/##/## (47)	License Type ● Operator ○ Chauffeur ○ Moped	Endorsements ○ Cycle ○ Farm ○ Recreation	Sex F	Race W	Total Occupants 01	Hazardous Action Failed to Yield
Unit Type MV	Driver Information #####/#/#/#/#/#/#/#/#/#/#/#/# #####/#/#/#/#/#/#/#/#/#/#/#/# FARMINGTON HILLS, MI 48336-5736 (###) # #-###				Driver is Owner Yes	Injury ○	Position Front - Left		Restraint Shoulder and Lap Belt	
Driver Condition at Time of Crash 1st Appeared Normal			Driver Distracted By Not Distracted			Ejected	Trapped	Airbag Deployed Not Deployed		

Hospital **NONE** Ambulance **NONE**

Alcohol Suspected No	Contributing Factor No	Alcohol Test Type O Breath    O Blood    O Urine	Alcohol Test Results O Pending	Test Results: Interlock Device No
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DR		O Field	O PBT	O Refused	● Not Offered		
Drug Suspected No	Contributing Factor No	Drug Test Type O Blood	O Urine	Drug Test Results O Pending	Test Results: ● Hazardous	Citation Issued	

Vehicle Registration	State	Vehicle Description	Year	Make	Model	Color
DXT2929	MI		2007	BUICK	LACROSSE	WHITE

VIN 2G4WC582971130261	Vehicle Type Passenger Car, SUV, Van	Special Vehicles Not Applicable	Private Trailer Type	Vehicle Defect
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Automation System(s) in Vehicle No	Automation System Level in Vehicle No Automation	Automation System Level Engaged at Time of Crash No Automation
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Insurance Company #####	Insurance Policy # #####	Towed By	Towed To
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Location of Greatest Damage	01	First Impact	Extent of Damage (Power Unit and/or Trailers)	Vehicle Direction	Vehicle Use	Action Prior
		01	Minor Damage	S	Private	Turning Left

Sequence of First Second Third Fourth  
Events      • 16 - Bicyclist  
(● indicates MOST harmful event)

Passenger Information      Date of Birth (Age)      Sex      Race      Position      Restraint

Injury   Ejected   Trapped   Airbag Deployed

Hospital Ambulance

Passenger Information	Date of Birth (Age)	Sex	Race	Position	Restraint
	Injury	Ejected	Trapped	Airbag Deployed	

	Injury	Ejected	Trapped	Airbag Deployed
Hospital				Ambulance

Hospital Ambulance

Carrier Information	USDOT	MC	MPSC

Driver's CDL Type      Endorsements      CDL Exempt  
O H O P O T  
O N O S O X      O Farm  
O Other

O 10,000 lbs. or Less    O 10,001 - 26,000 lbs.    O Greater than 26,000 lbs.    O Placard    O Cargo Spill

Damage to Property (if any) \_\_\_\_\_

UNIT / DRIVER	Unit Number 02	Unit Known Yes	State MI	Driver License Number ##### (33)	Date of Birth (Age) ##/##/## (33)	License Type <input type="checkbox"/> Operator <input type="checkbox"/> Chauffeur <input type="checkbox"/> Moped	Endorsements <input type="checkbox"/> Cycle <input type="checkbox"/> Farm <input type="checkbox"/> Recreation	Sex M	Race W	Total Occupants 01	Hazardous Action None		
	Unit Type B	Driver Information ##### ##### CLAWSON, MI 48017-1889 (###) # # # # #				Driver is Owner No	Injury B	Position Bicyclist			Restraint Helmet Worn		
	Driver Condition at Time of Crash 1st 2nd					Driver Distracted By Not Distracted			Ejected	Trapped	Airbag Deployed Not Equipped		
	Hospital WILLIAM BEAUMONT HOSPITAL					Ambulance ROYAL OAK FIRE DEPARTMENT							
	Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="checkbox"/> Breath <input type="checkbox"/> Blood <input type="checkbox"/> Field <input type="checkbox"/> PBT	<input type="checkbox"/> Urine <input type="checkbox"/> Refused <input checked="" type="checkbox"/> Not Offered	Alcohol Test Results <input type="checkbox"/> Pending	Test Results:		Interlock Device No					
	Drug Suspected No	Contributing Factor No	Drug Test Type <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field	<input type="checkbox"/> Refused <input checked="" type="checkbox"/> Not Offered	Drug Test Results <input type="checkbox"/> Pending	Test Results:		Citation Issued <input type="checkbox"/> Hazardous <input type="checkbox"/> Other					
	Vehicle Registration	State	Vehicle Description	Year	Make	Model			Color				
	VIN		Vehicle Type		Special Vehicles Not Applicable			Private Trailer Type		Vehicle Defect			
	Automation System(s) in Vehicle No		Automation System Level in Vehicle No Automation				Automation System Level Engaged at Time of Crash No Automation						
	Insurance Company #####			Insurance Policy # #####			Towed By			Towed To			
Location of Greatest Damage	First Impact 11	Extent of Damage (Power Unit and/or Trailers) No Damage	Vehicle Direction E	Vehicle Use			Action Prior Going Straight Ahead						
Sequence of Events (● indicates MOST harmful event)		First ● 17 - Motor Veh in Transport	Second	Third	Fourth								
PASSENGERS	Passenger Information				Date of Birth (Age)	Sex	Race	Position	Restraint				
					<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	<input type="checkbox"/> Airbag Deployed					
	Hospital				Ambulance								
	Passenger Information				Date of Birth (Age)	Sex	Race	Position	Restraint				
					<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	<input type="checkbox"/> Airbag Deployed					
	Hospital				Ambulance								
	Carrier Information				USDOT			MC		MPSC			
					Driver's CDL Type O H O P O T O N O S O X	Endorsements O H O P O T O N O S O X		CDL Exempt <input type="checkbox"/> Farm <input type="checkbox"/> Other					
	GVWR/GCWR <input type="checkbox"/> 10,000 lbs. or Less <input type="checkbox"/> 10,001 - 26,000 lbs. <input type="checkbox"/> Greater than 26,000 lbs.				Vehicle Configuration			Cargo Body Type	Medical Card	Hazardous Material <input type="checkbox"/> Placard <input type="checkbox"/> Cargo Spill	ID #	Class #	
	OWNERS	Owner Information				Owner Information							
Witness Information ##### ##### #####, # # # - # # # (###) # # - # # #				Witness Information									
WITNESS	Investigated at Scene Yes	Reported Date (Time) 09/10/2021 (19:02)	1st Investigator Name (Badge) ROSTUGLINF (423)	2nd Investigator Name (Badge)			Photos No						
Narrative	<p>UNIT 1 WAS ON WB NORMANDY ATTEMPTING TO TURN LEFT TO GO SB ON CROOKS. UNIT 2 WAS TRAVELING STRAIGHT (ACROSS CROOKS) ON EB NORMANDY. UNIT 1 STRUCK UNIT 2 WHILE TURNING. UNIT 1 STATED THAT SHE DID NOT SEE UNIT 2 DUE TO THE GLARE OF THE SUN. IN NON SCENE IT WAS OBSERVED THAT THE SUN WAS SETTING AND WOULD HAVE BEEN DIRECTLY IN FRONT OF UNIT 1. UNIT 2 STATED THAT HE WAS RIDING HIS BICYCLE IN THE ROADWAY AND PROCEEDED THROUGH THE INTERSECTION ON A GREEN LIGHT WHEN HE WAS STRUCK BY UNIT 1. IN A WITNESS REMAINED ON SCENE AND CONFIRMED THE SERIES OF EVENTS. UNIT 1 HAD MINOR BODY DAMAGE TO THE FRONT END OF THE VEHICLE AND A SHATTERED WINDSHIELD. UNIT 2 HAD DISABLING DAMAGE TO THE BICYCLE. UNIT 2 HAD ABRASIONS TO HIS ARMS AND A CUT TO HIS FOREHEAD. UNIT 2 WAS WEARING A HELMET.</p>												
Diagram	<p>Not To Scale</p>												

# STATE OF MICHIGAN TRAFFIC CRASH REPORT

ORI MI 6371400			Department Name Royal Oak Police Department						Reviewer BUDZYNOWSKI (00316)			
Crash Date 02/22/2022	Crash Time 11:27	No. of Units 02	Crash Type Head On-Left Turn	Special Circumstances ● None ○ Fleeing Police ○ Unknown		O Hit and Run ○ Unknown	O School Bus ○ Animal	Special Checks ○ Fatal ○ Non-Traffic Area ○ ORV/Snowmobile				
County 63 - Oakland		Traffic Control Signal		Relation to Roadway On the Road		Weather Clear		Area INTR Within Intersection				
City/Twp 90 - Royal Oak		Contributing Circumstances 1st None			2nd	Light Daylight	Road Surface Condition Dry		Total Lanes 05	Speed Limit 35	Posted Yes	
Work Zone (if applicable) Type		Workers Present		Activity		Location						
LOCATION	Prefix CROOKS		Road Type RD			Suffix		Divided Roadway				
	Distance / Direction AT		Trafficway Not Physically Divided									
	Prefix NORMANDY		Road Type RD			Suffix		Divided Roadway				
Unit Number 01	Unit Known Yes	State MI	Driver License Number #####/#/#/#/#	Date of Birth (Age) ###/##/## (17)		License Type ● Operator ○ Chauffeur ○ Moped	Endorsements ○ Cycle ○ Farm ○ Recreation	Sex F	Race W	Total Occupants 01	Hazardous Action Failed to Yield	
Unit Type MV	Driver Information #####/#/#/#/#/#/#/#/# #####/#/#/#/#/#/#/#/# MADISON HEIGHTS, MI 48071-5103 (##) ###-####				Driver is Owner No		Injury O	Position Front - Left		Restraint Shoulder and Lap Belt		
Driver Condition at Time of Crash 1st Appeared Normal				Driver Distracted By Not Distracted			Ejected		Trapped	Airbag Deployed Not Deployed		
Hospital NONE		Ambulance NONE										
Alcohol Suspected No	Contributing Factor No	Alcohol Test Type ○ Breath ○ Blood ○ Field ○ PBT	○ Urine ○ Refused	● Not Offered	Alcohol Test Results ○ Pending			Test Results:		Interlock Device No		
Drug Suspected No	Contributing Factor No	Drug Test Type ○ Blood ○ Urine ○ Field	○ Refused	● Not Offered	Drug Test Results ○ Pending			Test Results:		Citation Issued ○ Hazardous ○ Other		
Vehicle Registration ECX1333		State MI	Vehicle Description 2006 JEEP	Year Make			Model COMMANDER			Color WHITE		
VIN 1J8HG48KX6C346147		Vehicle Type Passenger Car, SUV, Van		Special Vehicles Not Applicable			Private Trailer Type			Vehicle Defect		
Automation System(s) in Vehicle No		Automation System Level in Vehicle No Automation					Automation System Level Engaged at Time of Crash No Automation					
Insurance Company #####/#/#/#/#/#/#/#/#				Insurance Policy # #####/#/#/#/#/#/#/#/#		Towed By				Towed To		
Location of Greatest Damage 03	First Impact 03	Extent of Damage (Power Unit and/or Trailers) Minor Damage		Vehicle Direction SE	Vehicle Use Private				Action Prior Turning Left			
Sequence of Events	First ● 17 - Motor Veh in Transport (● indicates MOST harmful event)	Second	Third	Fourth								
Passenger Information				Date of Birth (Age)		Sex	Race	Position			Restraint	
				Injury	Ejected	Trapped	Airbag Deployed					
Hospital				Ambulance								
Passenger Information				Date of Birth (Age)		Sex	Race	Position			Restraint	
				Injury	Ejected	Trapped	Airbag Deployed					
Hospital				Ambulance								
Carrier Information				USDOT				MC		MPSC		
				Driver's CDL Type		Endorsements ○ H O P O T ○ N O S O X		CDL Exempt ○ Farm ○ Other				
GVWR/GCWR ○ 10,000 lbs. or Less ○ 10,001 - 26,000 lbs. ○ Greater than 26,000 lbs.				Vehicle Configuration		Cargo Body Type		Medical Card		Hazardous Material ○ Placard ○ Cargo Spill	ID #	Class #
Owners Owner Information				Owner Information								
Damaged Property				Public	Owner & Phone							

UNIT / DRIVER	Unit Number 02	Unit Known Yes	State MI	Driver License Number ##### (64)	Date of Birth (Age) ##/##/## (64)	License Type ● Operator ○ Chauffeur ○ Moped	Endorsements ○ Cycle ○ Farm ○ Recreation	Sex F	Race W	Total Occupants 01	Hazardous Action None	
	Unit Type MV	Driver Information ##### ROYAL OAK, MI 48073-4055 (###) ####				Driver is Owner No	Injury O	Position Front - Left			Restraint Shoulder and Lap Belt	
	Driver Condition at Time of Crash 1st Appeared Normal					Driver Distracted By Not Distracted			Ejected	Trapped	Airbag Deployed Not Deployed	
	Hospital NONE					Ambulance NONE						
	Alcohol Suspected No	Contributing Factor No	Alcohol Test Type ○ Breath ○ Blood ○ Field ○ PBT ○ Refused ● Not Offered	Alcohol Test Results ○ Pending	Test Results:			Interlock Device No				
	Drug Suspected No	Contributing Factor No	Drug Test Type ○ Blood ○ Urine ○ Field ○ Refused ● Not Offered	Drug Test Results ○ Pending	Test Results:			Citation Issued ○ Hazardous ○ Other				
	Vehicle Registration 4MCA53	State MI	Vehicle Description 2012 CHRYSLER	Year 2012	Make CHRYSLER	Model 200	Color GRAY					
	VIN 1C3CCBBB8CN135656	Vehicle Type Passenger Car, SUV, Van	Special Vehicles Not Applicable			Private Trailer Type			Vehicle Defect			
	Automation System(s) in Vehicle No	Automation System Level in Vehicle No Automation				Automation System Level Engaged at Time of Crash No Automation						
	Insurance Company #####			Insurance Policy # #####		Towed By			Towed To			
Location of Greatest Damage 02	First Impact 02	Extent of Damage (Power Unit and/or Trailers) Functional Damage	Vehicle Direction N	Vehicle Use Private	Action Prior Going Straight Ahead							
Sequence of Events (● indicates MOST harmful event)	First ● 17 - Motor Veh in Transport	Second	Third	Fourth								
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position			Restraint		
				Injury	Ejected	Trapped	Airbag Deployed					
Hospital					Ambulance							
CARRIER	Passenger Information			Date of Birth (Age)	Sex	Race	Position			Restraint		
				Injury	Ejected	Trapped	Airbag Deployed					
Hospital					Ambulance							
TRUCK / BUS	Carrier Information					USDOT			MC		MPSC	
						Driver's CDL Type O H O P O T O N O S O X	Endorsements O H O P O T O N O S O X			CDL Exempt ○ Farm ○ Other		
GVWR/GCWR ○ 10,000 lbs. or Less ○ 10,001 - 26,000 lbs. ○ Greater than 26,000 lbs.			Vehicle Configuration			Cargo Body Type		Medical Card		Hazardous Material ○ Placard ○ Cargo Spill	ID #	Class #
OWNERS	Owner Information				Owner Information							
WITNESS	Witness Information				Witness Information							
Investigated at Scene Yes	Reported Date (Time) 02/22/2022 (11:27)	1st Investigator Name (Badge) LOVE (383)	2nd Investigator Name (Badge)				Photos No					
<p>Narrative</p> <p>VEHICLE 2 WAS N/B CROOKS APPROACHING NORMANDY IN THE CURB LANE. VEHICLE 1 WAS S/B CROOKS WAITING AT NORMANDY TO TURN E/B. DRIVER 1 ADMITTED THEY FAILED TO YIELD AND TURNED DIRECTLY IN FRONT OF VEHICLE 2. NEITHER PARTY HAD ANY OBVIOUS INJURIES AND BOTH DENIED MEDICAL ATTENTION. VERY MINOR COSMETIC DAMAGE TO VEHICLE 1. VEHICLE 2 RECEIVED MODERATE DAMAGE AND WAS CALLING FOR A PRIVATE TOW. DRIVER 1 WAS NOT ISSUED A CITATION DUE TO REQUEST FROM DRIVER 2.</p>					<p>Diagram</p>							

SANITIZED SANITIZED SANITIZED

Authority: 1949 PA 300, Sec.257.622  
 Compliance: Required MSP UD-10E  
 Penalty: \$100 and/or 90 days (Rev 11/2020)

External # 1343231 Crash ID 2822922

Page 01 of 01  
 File Class 3158

Incident # 230000662  
 Reviewer SCOTT (00015)

# STATE OF MICHIGAN TRAFFIC CRASH REPORT

ORI MI 6331600			Department Name Clawson Police Department								
Crash Date 02/08/2023	Crash Time 10:38	No. of Units 02	Crash Type Single Motor Vehicle	Special Circumstances <input type="checkbox"/> None <input type="checkbox"/> Fleeing Police <input type="checkbox"/> Unknown	O Hit and Run <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	O School Bus <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Special Checks <input type="checkbox"/> O Fatal <input type="checkbox"/> O Non-Traffic Area <input type="checkbox"/> O ORV/Snowmobile				
County 63 - Oakland	Traffic Control Signal		Relation to Roadway On the Road		Weather Clear	Area NON-FRWY Straight Roadway					
City/Twp 68 - Clawson	Contributing Circumstances 1st None			2nd	Light Daylight	Road Surface Condition Dry	Total Lanes 05	Speed Limit 35	Posted Yes		
Work Zone (if applicable) Type Workers Present Activity Location											
LOCATION	Prefix CROOKS	Road Type RD			Suffix	Divided Roadway					
	Distance / Direction 20 Feet N	Trafficway Not Physically Divided									
	Prefix NORMANDY	Road Type RD			Suffix	Divided Roadway					
Unit Number 01	Unit Known Yes	State MI	Driver License Number #####	Date of Birth (Age) ###/###/## (33)	License Type <input type="checkbox"/> Operator <input type="checkbox"/> Chauffeur <input type="checkbox"/> Moped	Endorsements <input type="checkbox"/> Cycle <input type="checkbox"/> Farm <input type="checkbox"/> Recreation	Sex M	Race W	Total Occupants 01	Hazardous Action Failed to Yield	
Unit Type MV	Driver Information ##### ##### ROYAL OAK, MI 48073-0001 (##) ####				Driver is Owner Yes	Injury O	Position Front - Left		Restraint Shoulder and Lap Belt		
Driver Condition at Time of Crash 1st Appeared Normal				Driver Distracted By Unknown		Ejected	Trapped	Airbag Deployed Not Deployed			
Hospital NONE				Ambulance NONE							
Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="checkbox"/> Breath <input type="checkbox"/> Blood <input type="checkbox"/> Field <input type="checkbox"/> PBT	O Urine <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Date of Birth (Age) ###/###/## (33)	Alcohol Test Results <input type="checkbox"/> Pending	Test Results: Test Results:		Interlock Device No			
Drug Suspected No	Contributing Factor No	Drug Test Type <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field	O Refused <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Drug Test Results <input type="checkbox"/> Pending	Test Results: Test Results:		Citation Issued <input type="checkbox"/> Hazardous <input type="checkbox"/> Other				
Vehicle Registration 6NJR64	State MI	Vehicle Description	Year 2022	Make CHEVROLET	Model SILVERADO LT	Color SILVER					
VIN 3GCPYJEKXNG195776	Vehicle Type Pickup Truck	Special Vehicles Not Applicable			Private Trailer Type	Vehicle Defect					
Automation System(s) in Vehicle No		Automation System Level in Vehicle No Automation			Automation System Level Engaged at Time of Crash No Automation						
Insurance Company #####			Insurance Policy # #####		Towed By			Towed To			
Location of Greatest Damage 11	First Impact 01	Extent of Damage (Power Unit and/or Trailers) No Damage	Vehicle Direction NE	Vehicle Use Private	Action Prior Turning Left						
Sequence of Events <input type="checkbox"/> 15 - Pedestrian <small>(• indicates MOST harmful event)</small>		First		Second	Third	Fourth					
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint			
				Injury	Ejected	Trapped	Airbag Deployed				
	Hospital			Ambulance							
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint			
				Injury	Ejected	Trapped	Airbag Deployed				
	Hospital			Ambulance							
TRUCK/ BUS	Carrier Information				USDOT			MC	MPSC		
					Driver's CDL Type <input type="checkbox"/> O <input type="checkbox"/> O <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> S <input type="checkbox"/> O <input type="checkbox"/> X	Endorsements <input type="checkbox"/> H <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> O <input type="checkbox"/> T <input type="checkbox"/> O <input type="checkbox"/> R <input type="checkbox"/> Other	CDL Exempt <input type="checkbox"/> Farm				
	GVWR/GCWR <input type="checkbox"/> O 10,000 lbs. or Less <input type="checkbox"/> O 10,001 - 26,000 lbs. <input type="checkbox"/> O Greater than 26,000 lbs.				Vehicle Configuration	Cargo Body Type	Medical Card	Hazardous Material <input type="checkbox"/> Placard <input type="checkbox"/> O Cargo Spill	ID #	Class #	
OWNERS	Owner Information ##### ##### #####				Owner Information						
	Damaged Property				Public	Owner & Phone					

UNIT / DRIVER	Unit Number 02	Unit Known No	State MI	Driver License Number ##### (38)	Date of Birth (Age) ##/##/## (38)	License Type <input type="checkbox"/> Operator <input type="checkbox"/> Chauffeur <input type="checkbox"/> Moped	Endorsements <input type="checkbox"/> Cycle <input type="checkbox"/> Farm <input type="checkbox"/> Recreation	Sex M	Race	Total Occupants 00	Hazardous Action None		
	Unit Type P	Driver Information ##### ##### ROYAL OAK, MI 48073-2530 (##) ##-##				Driver is Owner No	Injury	Position Pedestrian			Restraint No Belts Available		
	Driver Condition at Time of Crash 1st 2nd					Driver Distracted By Unknown			Ejected	Trapped	Airbag Deployed Not Equipped		
	Hospital REFUSED					Ambulance ALLIANCE MOBILE HEALTH INC							
	Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="checkbox"/> Breath <input type="checkbox"/> Blood <input type="checkbox"/> Field <input type="checkbox"/> O PBT <input type="checkbox"/> Refused <input type="checkbox"/> Not Offered	Alcohol Test Results <input type="checkbox"/> Pending	Test Results:		Interlock Device No						
	Drug Suspected No	Contributing Factor No	Drug Test Type <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field <input type="checkbox"/> Refused <input type="checkbox"/> Not Offered	Drug Test Results <input type="checkbox"/> Pending	Test Results:		Citation Issued <input type="checkbox"/> Hazardous <input type="checkbox"/> Other						
	Vehicle Registration	State	Vehicle Description	Year	Make	Model		Color					
	VIN		Vehicle Type		Special Vehicles Not Applicable			Private Trailer Type		Vehicle Defect			
	Automation System(s) in Vehicle		Automation System Level in Vehicle Unknown				Automation System Level Engaged at Time of Crash Unknown						
	Insurance Company #####					Insurance Policy # #####		Towed By			Towed To		
Location of Greatest Damage	First Impact 11	Extent of Damage (Power Unit and/or Trailers) No Damage	Vehicle Direction	Vehicle Use		Action Prior Crossing Not at Intersect							
Sequence of Events	First • 17 - Motor Veh in Transport (• indicates MOST harmful event)	Second	Third	Fourth									
PASSENGERS	Passenger Information				Date of Birth (Age)	Sex	Race	Position	Restraint				
					<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	Airbag Deployed					
	Hospital				Ambulance								
	Passenger Information				Date of Birth (Age)	Sex	Race	Position	Restraint				
					<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	Airbag Deployed					
	Hospital				Ambulance								
	Carrier Information					USDOT			MC		MPSC		
						Driver's CDL Type O H O P O T O N O S O X	Endorsements <input type="checkbox"/> O H <input type="checkbox"/> O P <input type="checkbox"/> O T <input type="checkbox"/> O N <input type="checkbox"/> O S <input type="checkbox"/> O X		CDL Exempt <input type="checkbox"/> Farm <input type="checkbox"/> Other				
	GVWR/GCWR <input type="checkbox"/> 10,000 lbs. or Less <input type="checkbox"/> 10,001 - 26,000 lbs. <input type="checkbox"/> Greater than 26,000 lbs.		Vehicle Configuration			Cargo Body Type	Medical Card		Hazardous Material <input type="checkbox"/> Placard <input type="checkbox"/> Cargo Spill	ID #	Class #		
	Owner Information					Owner Information							
WITNESS	Witness Information ##### ##### #####, # #####-#### (##) ####-####				Witness Information								
	Investigated at Scene Yes	Reported Date (Time) 02/08/2023 (10:38)	1st Investigator Name (Badge) BROZICH (57)	2nd Investigator Name (Badge) RANDS (19)	Photos No								
TRUCK / BUS OWNERS	Narrative UNIT 1 WAS MAKING A TURN FROM E/B NORMANDY TO N/B CROOKS RD WHEN THEY STRUCK UNIT 2 (PEDESTRIAN) CROSSING IN THE CROSSWALK E/B ON NORMANDY. UNIT 1 DRIVER ADMITTED FAULT AND TO NOT SEEING UNIT 2 BEFORE HE WAS STRUCK. PEDESTRIAN STATED THAT HE HAD PAIN IN HIS TAILBONE. ALLIANCE AMBULANCE COMPANY RESPONDED TO THE SCENE AND CHECKED PEDESTRIAN FOR INJURIES. PEDESTRIAN REFUSED TRANSPORT AND SIGNED REFUSAL FORM. THERE WAS NO DAMAGE TO UNIT 1. DRIVER WAS ISSUED FAIL TO YIELD CITATION.					Diagram 							

# STATE OF MICHIGAN TRAFFIC CRASH REPORT

UNIT / DRIVER	Unit Number 02	Unit Known Yes	State MI	Driver License Number #####-#####-#####	Date of Birth (Age) ##/##/## (48)	License Type ● Operator ○ Chauffeur ○ Moped	Endorsements ○ Cycle ○ Farm ○ Recreation	Sex F	Race W	Total Occupants 01	Hazardous Action None		
	Unit Type MV	Driver Information #####-#####-#####-#####-##### #####-#####-#####-#####-##### OAK PARK, MI 48237-2140 (##) ##-##-##				Driver is Owner Yes	Injury C	Position Front - Left			Restraint Shoulder and Lap Belt		
	Driver Condition at Time of Crash 1st Appeared Normal					Driver Distracted By Not Distracted			Ejected	Trapped	Airbag Deployed Deployed - Front		
	Hospital WILLIAM BEAUMONT HOSPITAL					Ambulance ROYAL OAK FIRE DEPARTMENT							
	Alcohol Suspected No	Contributing Factor No	Alcohol Test Type ○ Breath ○ Blood ○ Field ○ PBT	○ Urine ○ Refused ● Not Offered	Alcohol Test Results ○ Pending	Test Results:			Interlock Device No				
	Drug Suspected No	Contributing Factor No	Drug Test Type ○ Blood ○ Urine ○ Field	○ Refused ● Not Offered	Drug Test Results ○ Pending	Test Results:			Citation Issued ○ Hazardous ○ Other				
	Vehicle Registration EJT1934	State MI	Vehicle Description 2012	Year 2012	Make CHRYSLER	Model TOWN & COU			Color BLUE				
	VIN 2C4RC1GG5CR118319	Vehicle Type Passenger Car, SUV, Van	Special Vehicles Not Applicable			Private Trailer Type			Vehicle Defect				
	Automation System(s) in Vehicle No	Automation System Level in Vehicle No Automation				Automation System Level Engaged at Time of Crash No Automation							
	Insurance Company #####-#####-#####-#####-#####			Insurance Policy # #####-#####-#####-#####-#####		Towed By A&M TOWING 248-398-8309			Towed To A&M LOT				
Location of Greatest Damage 01	First Impact 01	Extent of Damage (Power Unit and/or Trailers) Functional Damage		Vehicle Direction W	Vehicle Use Private			Action Prior Going Straight Ahead					
Sequence of Events (● indicates MOST harmful event)	First ● 17 - Motor Veh in Transport	Second	Third	Fourth									
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint					
				Injury	Ejected	Trapped	Airbag Deployed						
	Hospital							Ambulance					
	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint					
				Injury	Ejected	Trapped	Airbag Deployed						
	Hospital							Ambulance					
	Carrier Information					USDOT			MC		MPSC		
						Driver's CDL Type O H O P O T O N O S O X	Endorsements ○ H ○ P ○ T ○ N ○ S ○ X		CDL Exempt ○ Farm ○ Other				
	GVWR/GCWR ○ 10,000 lbs. or Less ○ 10,001 - 26,000 lbs. ○ Greater than 26,000 lbs.	Vehicle Configuration			Cargo Body Type	Medical Card		Hazardous Material ○ Placard ○ Cargo Spill	ID #	Class #			
	Owner Information #####-#####-#####-##### #####-#####-#####-#####-#####, ## #####-##### (##) #####-#####					Owner Information							
WITNESS	Witness Information				Witness Information								
	Investigated at Scene Yes	Reported Date (Time) 05/01/2023 (08:14)	1st Investigator Name (Badge) BUCKLEY, B. (422)	2nd Investigator Name (Badge)			Photos No						
<p>Narrative ON 05/01/2023 AT APPROXIMATELY 0814HRS, VEHICLE 1 WAS TRAVELING EB ON NORMANDY WHILE VEHICLE 2 WAS TRAVELING WB. VEHICLE 1 FAILED TO YIELD WHILE MAKING A LEFT TURN FROM EB NORMANDY TO NB CROOKS. VEHICLE 1 ENTERED THE TRAVEL LANE OF VEHICLE 2 AND VEHICLE 2 MADE CONTACT WITH VEHICLE 1. DRIVER 2 WAS TRANSPORTED TO WBH WITH POSSIBLE INJURIES AND VEHICLE 2 WAS TOWED DUE TO AIRBAG DEPLOYMENT. DRIVER 1 AND HIS PASSENGER WERE UNCHECKED AND REFUSED TRANSPORT. DRIVER 1 WAS FOUND AT FAULT, ISSUED A CITATION, AND SENT ON HIS WAY.</p>					<p>Diagram</p> <p>Not To Scale</p>								

SANITIZED SANITIZED SANITIZED

Authority: 1949 PA 300, Sec.257.622  
 Compliance: Required MSP UD-10E  
 Penalty: \$100 and/or 90 days (Rev 11/2020)

External # 1407093 Crash ID 3011441

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 File Class C3160

Incident # 230035290  
 Reviewer HEPPNER (00369)

# STATE OF MICHIGAN TRAFFIC CRASH REPORT

ORI MI 6371400			Department Name Royal Oak Police Department							
Crash Date 10/04/2023	Crash Time 18:00	No. of Units 02	Crash Type Other	Special Circumstances <input type="checkbox"/> None <input type="checkbox"/> Hit and Run <input type="checkbox"/> Fleeing Police <input type="checkbox"/> School Bus <input type="checkbox"/> Unknown <input type="checkbox"/> Animal			Special Checks <input type="checkbox"/> Fatal <input type="checkbox"/> Non-Traffic Area <input type="checkbox"/> ORV/Snowmobile			
County 63 - Oakland	Traffic Control None		Relation to Roadway On the Road		Weather Clear		Area INTR Within Intersection			
City/Twp 90 - Royal Oak	Contributing Circumstances 1st None			2nd	Light Daylight	Road Surface Condition Dry	Total Lanes 04	Speed Limit 35	Posted Yes	
Work Zone (if applicable) Type Workers Present Activity Location										
LOCATION	Prefix CROOKS	Road Type RD			Suffix		Divided Roadway			
	Distance / Direction AT	Trafficway 2-Way w/Cont. L-Turn Lane								
	Prefix NORMANDY	Road Type RD			Suffix		Divided Roadway			
Unit Number 01	Unit Known No	State Driver License Number #####	Date of Birth (Age) ###/###/###	License Type <input type="checkbox"/> Operator <input type="checkbox"/> Chauffeur <input type="checkbox"/> Moped	Endorsements <input type="checkbox"/> Cycle <input type="checkbox"/> Farm <input type="checkbox"/> Recreation	Sex F	Race W	Total Occupants	Hazardous Action	
Unit Type MV	Driver Information ##### ##### #####				Driver is Owner No	Injury	Position		Restraint Restraint Use Unknown	
Driver Condition at Time of Crash 1st 2nd				Driver Distracted By Unknown		Ejected	Trapped	Airbag Deployed Unknown		
Hospital NONE				Ambulance NONE						
Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="checkbox"/> Breath <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field <input type="checkbox"/> PBT	O Refused <input type="checkbox"/> Not Offered	Alcohol Test Results <input type="checkbox"/> Pending	Test Results:		Interlock Device No			
Drug Suspected No	Contributing Factor No	Drug Test Type <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field	O Refused <input type="checkbox"/> Not Offered	Drug Test Results <input type="checkbox"/> Pending	Test Results:		Citation Issued <input type="checkbox"/> Hazardous <input type="checkbox"/> Other			
Vehicle Registration	State	Vehicle Description	Year	Make	Model SUV	Color BLACK				
VIN		Vehicle Type Passenger Car, SUV, Van	Special Vehicles Not Applicable			Private Trailer Type	Vehicle Defect			
Automation System(s) in Vehicle		Automation System Level in Vehicle Unknown			Automation System Level Engaged at Time of Crash Unknown					
Insurance Company #####			Insurance Policy # #####			Towed By		Towed To		
Location of Greatest Damage 98	First Impact 98	Extent of Damage (Power Unit and/or Trailers) No Damage	Vehicle Direction	Vehicle Use				Action Prior Turning Left		
Sequence of Events	First ● 15 - Pedestrian (● indicates MOST harmful event)	Second	Third	Fourth						
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint		
				<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	Airbag Deployed			
	Hospital			Ambulance						
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint		
				<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	Airbag Deployed			
	Hospital			Ambulance						
TRUCK/ BUS	Carrier Information				USDOT		MC	MPSC		
					Driver's CDL Type <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> O <input type="checkbox"/> T <input type="checkbox"/> O <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> O <input type="checkbox"/> X	Endorsements <input type="checkbox"/> O Farm <input type="checkbox"/> O Other	CDL Exempt			
	GVWR/GCWR <input type="checkbox"/> 10,000 lbs. or Less <input type="checkbox"/> 10,001 - 26,000 lbs. <input type="checkbox"/> Greater than 26,000 lbs.				Vehicle Configuration	Cargo Body Type	Medical Card	Hazardous Material <input type="checkbox"/> O Placard <input type="checkbox"/> O Cargo Spill	ID #	Class #
OWNERS	Owner Information				Owner Information					
	Damaged Property				Public	Owner & Phone				

UNIT / DRIVER	Unit Number 02	Unit Known Yes	State MI	Driver License Number ##### (16)	Date of Birth (Age) ##/##/## (16)	License Type <input type="checkbox"/> Operator <input type="checkbox"/> Chauffeur <input type="checkbox"/> Moped	Endorsements <input type="checkbox"/> Cycle <input type="checkbox"/> Farm <input type="checkbox"/> Recreation	Sex F	Race W	Total Occupants 00	Hazardous Action None		
	Unit Type P	Driver Information ##### ##### ROYAL OAK, MI 48067 (##) ##-##				Driver is Owner No	Injury B	Position Pedestrian			Restraint No Belts Available		
	Driver Condition at Time of Crash 1st 2nd					Driver Distracted By Unknown			Ejected	Trapped	Airbag Deployed Not Equipped		
	Hospital WILLIAM BEAUMONT HOSPITAL					Ambulance ROYAL OAK FIRE DEPARTMENT							
	Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="checkbox"/> Breath <input type="checkbox"/> Blood <input type="checkbox"/> Field <input type="checkbox"/> PBT	<input type="checkbox"/> Urine <input type="checkbox"/> Refused <input checked="" type="checkbox"/> Not Offered	Alcohol Test Results <input type="checkbox"/> Pending	Test Results:		Interlock Device No					
	Drug Suspected No	Contributing Factor No	Drug Test Type <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field	<input type="checkbox"/> Refused <input checked="" type="checkbox"/> Not Offered	Drug Test Results <input type="checkbox"/> Pending	Test Results:		Citation Issued <input type="checkbox"/> Hazardous <input type="checkbox"/> Other					
	Vehicle Registration	State	Vehicle Description	Year	Make	Model			Color				
	VIN		Vehicle Type		Special Vehicles Not Applicable			Private Trailer Type		Vehicle Defect			
	Automation System(s) in Vehicle No	Automation System Level in Vehicle No Automation				Automation System Level Engaged at Time of Crash No Automation							
	Insurance Company #####			Insurance Policy # #####		Towed By			Towed To				
Location of Greatest Damage 11	First Impact 11	Extent of Damage (Power Unit and/or Trailers) No Damage	Vehicle Direction	Vehicle Use	Action Prior Crossing at Intersection								
Sequence of Events (● indicates MOST harmful event)	First ● 17 - Motor Veh in Transport	Second	Third	Fourth									
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint					
					<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	<input type="checkbox"/> Airbag Deployed					
	Hospital					Ambulance							
	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint					
					<input type="checkbox"/> Injury	<input type="checkbox"/> Ejected	<input type="checkbox"/> Trapped	<input type="checkbox"/> Airbag Deployed					
	Hospital					Ambulance							
	Carrier Information					USDOT			MC		MPSC		
						Driver's CDL Type	Endorsements <input type="checkbox"/> O H <input type="checkbox"/> O P <input type="checkbox"/> O T <input type="checkbox"/> O N <input type="checkbox"/> O S <input type="checkbox"/> O X	CDL Exempt <input type="checkbox"/> Farm <input type="checkbox"/> Other					
	GVWR/GCWR <input type="checkbox"/> 10,000 lbs. or Less <input type="checkbox"/> 10,001 - 26,000 lbs. <input type="checkbox"/> Greater than 26,000 lbs.			Vehicle Configuration		Cargo Body Type	Medical Card	Hazardous Material <input type="checkbox"/> Placard <input type="checkbox"/> Cargo Spill	ID #	Class #			
	OWNERS	Owner Information				Owner Information							
WITNESS	Witness Information				Witness Information								
Investigated at Scene No	Reported Date (Time) 10/04/2023 (18:53)	1st Investigator Name (Badge) J LITTLE (493)	2nd Investigator Name (Badge)				Photos No						
<p>Narrative</p> <p>UNIT 2 WAS A PEDESTRIAN, SHE WAS WALKING EAST, ACROSS CROOKS, JUST SOUTH OF NORMANDY, IN THE CROSS WALK. UNIT 1 WAS TURNING SOUTH FROM WESTBOUND NORMANDY, ONTO CROOKS. UNIT 2 HAD A CROSSWALK SIGN, AS UNIT 1 HAD A GREEN LIGHT. UNIT 1 STRUCK UNIT 2, IN THE FAR WEST LANE OF SB CROOKS. UNIT 1 STRUCK UNIT 2 WITH THE FRONT LEFT SIDE BUMPER. UNIT 1 CONTINUED DRIVING AND LEFT THE SCENE. UNIT 1 WAS DESCRIBED AS A BLACK SUV. THE DRIVER WAS DESCRIBED AS A WHITE FEMALE WITH NO GLASSES. THE FRONT PASSENGER WAS DESCRIBED AS A WHITE ELDERLY FEMALE, WITH POSSIBLY A DOG OR CHILD IN THE REAR MIDDLE SEAT. THE PEDESTRIAN WAS LATER TRANSPORTED TO THE HOSPITAL FOR FURTHER TREATMENT. SHE COMPLAINED OF PAIN TO THE LEFT HIP, BUT NO VISIBLE INJURIES. THE REPORT WAS MADE APPROXIMATELY ONE HOUR AFTER THE INCIDENT.</p>					<p>Diagram</p> <p>Not To Scale</p>								

SANITIZED SANITIZED SANITIZED

Authority: 1949 PA 300, Sec.257.622  
 Compliance: Required MSP UD-10E  
 Penalty: \$100 and/or 90 days (Rev 11/2020)

External # 1424790 Crash ID 3070929

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 File Class C3145

Incident # 230041893  
 Reviewer BUCKLEY (00422)

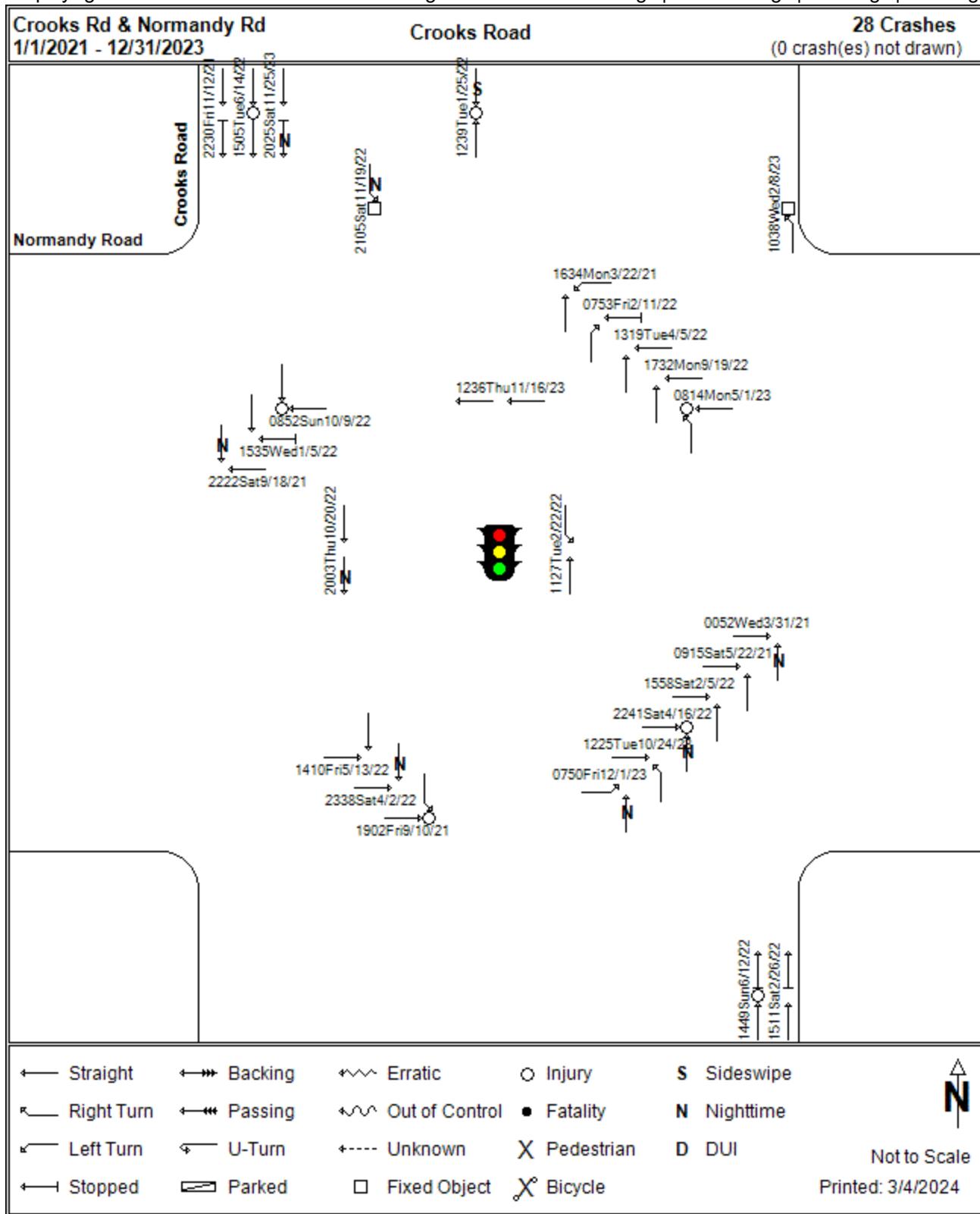
# STATE OF MICHIGAN TRAFFIC CRASH REPORT

ORI MI 6371400			Department Name Royal Oak Police Department								
Crash Date 12/01/2023	Crash Time 07:50	No. of Units 02	Crash Type Angle	Special Circumstances <input checked="" type="radio"/> None <input type="radio"/> Fleeing Police <input type="radio"/> Unknown	O Hit and Run <input type="radio"/> <input type="radio"/> <input type="radio"/>	O School Bus <input type="radio"/> <input type="radio"/>	Special Checks <input type="radio"/> O Fatal <input type="radio"/> O Non-Traffic Area <input type="radio"/> O ORV/Snowmobile				
County 63 - Oakland	Traffic Control Signal		Relation to Roadway On the Road		Weather Rain	Area NON-FRWY Straight Roadway					
City/Twp 90 - Royal Oak	Contributing Circumstances 1st None			2nd	Light Dark-Lighted	Road Surface Condition Wet	Total Lanes 04	Speed Limit 35	Posted Yes		
Work Zone (if applicable) Type Workers Present Activity Location											
LOCATION	Prefix CROOKS	Road Type RD			Suffix	Divided Roadway					
	Distance / Direction 10 Feet S	Trafficway Not Physically Divided									
	Prefix NORMANDY	Road Type RD			Suffix	Divided Roadway					
Unit Number 01	Unit Known Yes	State MI	Driver License Number #####	Date of Birth (Age) ###/###/## (16)	License Type <input checked="" type="radio"/> Operator <input type="radio"/> Chauffeur <input type="radio"/> Moped	Endorsements <input type="radio"/> Cycle <input type="radio"/> Farm <input type="radio"/> Recreation	Sex M	Race W	Total Occupants 01	Hazardous Action Failed to Yield	
Unit Type MV	Driver Information ##### ##### ROYAL OAK, MI 48073-1110 (##) ####				Driver is Owner No	Injury O	Position Front - Left		Restraint Shoulder and Lap Belt		
Driver Condition at Time of Crash 1st Appeared Normal				Driver Distracted By Not Distracted		Ejected	Trapped	Airbag Deployed Deployed - Front			
Hospital NONE				Ambulance NONE							
Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="radio"/> Breath <input type="radio"/> Blood <input type="radio"/> Field <input type="radio"/> PBT	<input type="radio"/> Urine <input type="radio"/> Refused	<input checked="" type="radio"/> Not Offered	Alcohol Test Results <input type="radio"/> Pending	Test Results:		Interlock Device No			
Drug Suspected No	Contributing Factor No	Drug Test Type <input type="radio"/> Blood <input type="radio"/> Urine <input type="radio"/> Field	<input type="radio"/> Refused	<input checked="" type="radio"/> Not Offered	Drug Test Results <input type="radio"/> Pending	Test Results:		Citation Issued <input type="radio"/> Hazardous <input type="radio"/> Other			
Vehicle Registration ETP4254	State MI	Vehicle Description	Year 2010	Make HONDA	Model FIT	Color BLUE					
VIN JHMGE8H41AS005511	Vehicle Type Passenger Car, SUV, Van	Special Vehicles Not Applicable			Private Trailer Type	Vehicle Defect					
Automation System(s) in Vehicle No		Automation System Level in Vehicle No Automation			Automation System Level Engaged at Time of Crash No Automation						
Insurance Company #####			Insurance Policy # #####			Towed By A&M TOWING 248-398-8309			Towed To A&M		
Location of Greatest Damage 01	First Impact 01	Extent of Damage (Power Unit and/or Trailers) Disabling Damage	Vehicle Direction E	Vehicle Use Private	Action Prior Turning Left						
Sequence of Events	First ● 17 - Motor Veh in Transport (● indicates MOST harmful event)	Second			Third	Fourth					
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint			
				Injury	Ejected	Trapped	Airbag Deployed				
	Hospital			Ambulance							
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position	Restraint			
				Injury	Ejected	Trapped	Airbag Deployed				
	Hospital			Ambulance							
TRUCK/ BUS	Carrier Information				USDOT			MC	MPSC		
					Driver's CDL Type <input type="radio"/> O <input type="radio"/> P <input type="radio"/> O <input type="radio"/> N <input type="radio"/> S <input type="radio"/> O <input type="radio"/> X	Endorsements <input type="radio"/> O <input type="radio"/> P <input type="radio"/> O <input type="radio"/> N <input type="radio"/> S <input type="radio"/> O <input type="radio"/> X	CDL Exempt <input type="radio"/> Farm <input type="radio"/> Other				
	GVWR/GCWR <input type="radio"/> O 10,000 lbs. or Less <input type="radio"/> O 10,001 - 26,000 lbs. <input type="radio"/> O Greater than 26,000 lbs.				Vehicle Configuration	Cargo Body Type	Medical Card	Hazardous Material <input type="radio"/> Placard <input type="radio"/> O Cargo Spill	ID #	Class #	
OWNERS	Owner Information ##### ##### #####, ## ####-#### (##) ####-####				Owner Information						
	Damaged Property				Public	Owner & Phone					

UNIT / DRIVER	Unit Number 02	Unit Known Yes	State MI	Driver License Number ##### (53)	Date of Birth (Age) ##/##/## (53)	License Type ● Operator ○ Chauffeur ○ Moped	Endorsements ○ Cycle ○ Farm ○ Recreation	Sex F	Race W	Total Occupants 01	Hazardous Action Failed to Yield		
	Unit Type MV	Driver Information ##### ##### TROY, MI 48085-3944 (##) ##-##				Driver is Owner No	Injury O	Position Front - Left			Restraint Shoulder and Lap Belt		
	Driver Condition at Time of Crash 1st Appeared Normal					Driver Distracted By Not Distracted			Ejected	Trapped	Airbag Deployed Deployed - Front		
	Hospital NONE					Ambulance NONE							
	Alcohol Suspected No	Contributing Factor No	Alcohol Test Type ○ Breath ○ Blood ○ Field ○ PBT ○ Refused ● Not Offered	Alcohol Test Results ○ Pending	Test Results:			Interlock Device No					
	Drug Suspected No	Contributing Factor No	Drug Test Type ○ Blood ○ Urine ○ Field ○ Refused ● Not Offered	Drug Test Results ○ Pending	Test Results:			Citation Issued ○ Hazardous ○ Other					
	Vehicle Registration KW16Z	State MI	Vehicle Description 2018 CADILLAC	Year 2018	Make CADILLAC	Model XT5	Color SILVER						
	VIN 1GYKNFRS3JZ176890	Vehicle Type Passenger Car, SUV, Van	Special Vehicles Not Applicable			Private Trailer Type			Vehicle Defect				
	Automation System(s) in Vehicle No	Automation System Level in Vehicle No Automation				Automation System Level Engaged at Time of Crash No Automation							
	Insurance Company #####			Insurance Policy # #####		Towed By CITIZENS INSURANCE TOW			Towed To				
Location of Greatest Damage 01	First Impact 01	Extent of Damage (Power Unit and/or Trailers) Functional Damage		Vehicle Direction N	Vehicle Use Private			Action Prior Going Straight Ahead					
Sequence of Events (● indicates MOST harmful event)		First ● 17 - Motor Veh in Transport	Second	Third	Fourth								
PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Race	Position			Restraint			
					Injury	Ejected	Trapped	Airbag Deployed					
	Hospital			Ambulance									
	Passenger Information			Date of Birth (Age)	Sex	Race	Position			Restraint			
					Injury	Ejected	Trapped	Airbag Deployed					
	Hospital			Ambulance									
	Carrier Information					USDOT			MC		MPSC		
						Driver's CDL Type O H O P O T O N O S O X	Endorsements O H O P O T O N O S O X		CDL Exempt ○ Farm ○ Other				
	GVWR/GCWR ○ 10,000 lbs. or Less ○ 10,001 - 26,000 lbs. ○ Greater than 26,000 lbs.		Vehicle Configuration			Cargo Body Type	Medical Card		Hazardous Material ○ Placard ○ Cargo Spill	ID #	Class #		
	OWNERS	Owner Information ##### ##### #####, # #####-#### (##) ####-####				Owner Information							
WITNESS	Witness Information				Witness Information								
Investigated at Scene Yes	Reported Date (Time) 12/01/2023 (07:50)	1st Investigator Name (Badge) A. CARTER (496)			2nd Investigator Name (Badge)			Photos No					
<p>Narrative</p> <p>UNIT 1 WAS S/B CROOKS IN LEFT TURN LANE TO GO E/B NORMANDY.      UNIT 2 WAS N/B CROOKS. TRAFFIC SIGNAL TURNED YELLOW AND UNIT 1 ATTEMPTED TO TURN LEFT WHILE UNIT 2 ATTEMPTED TO MAKE THE YELLOW LIGHT. UNIT 1 COLLIDED WITH UNIT 2 HEAD ON CAUSING THE COLLISION. NO INJURIES AND UNIT 1 WAS TOWED BY A&amp;M. NO CITATION WAS ISSUED DUE TO CLAWSON PD HANDLING AND THEN RELEASING BOTH PARTIES BEFORE HANDING OVER INFO TO ROYAL OAK PD.</p>					<p>Diagram</p>								

Displaying 28 of 28 Records

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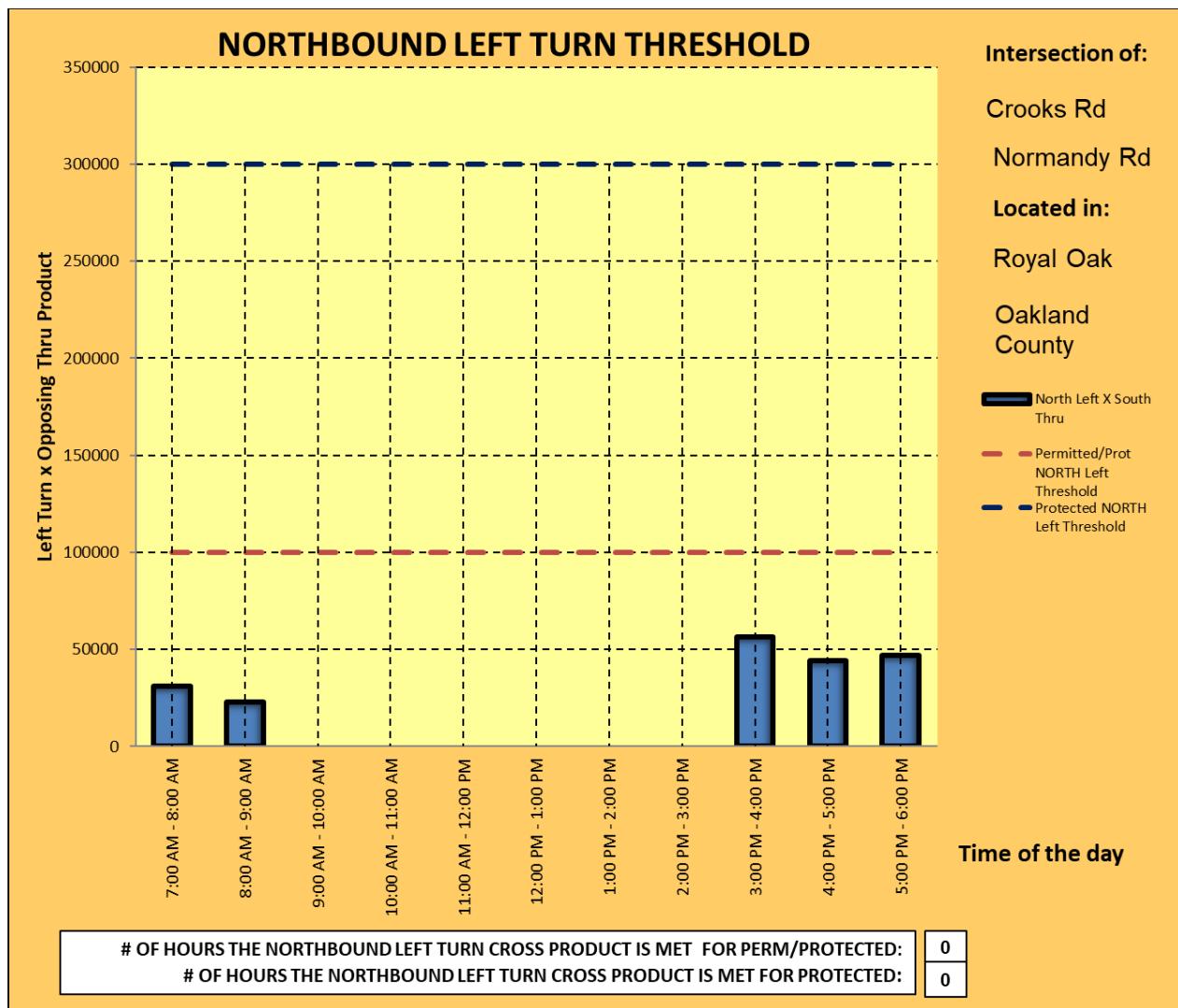
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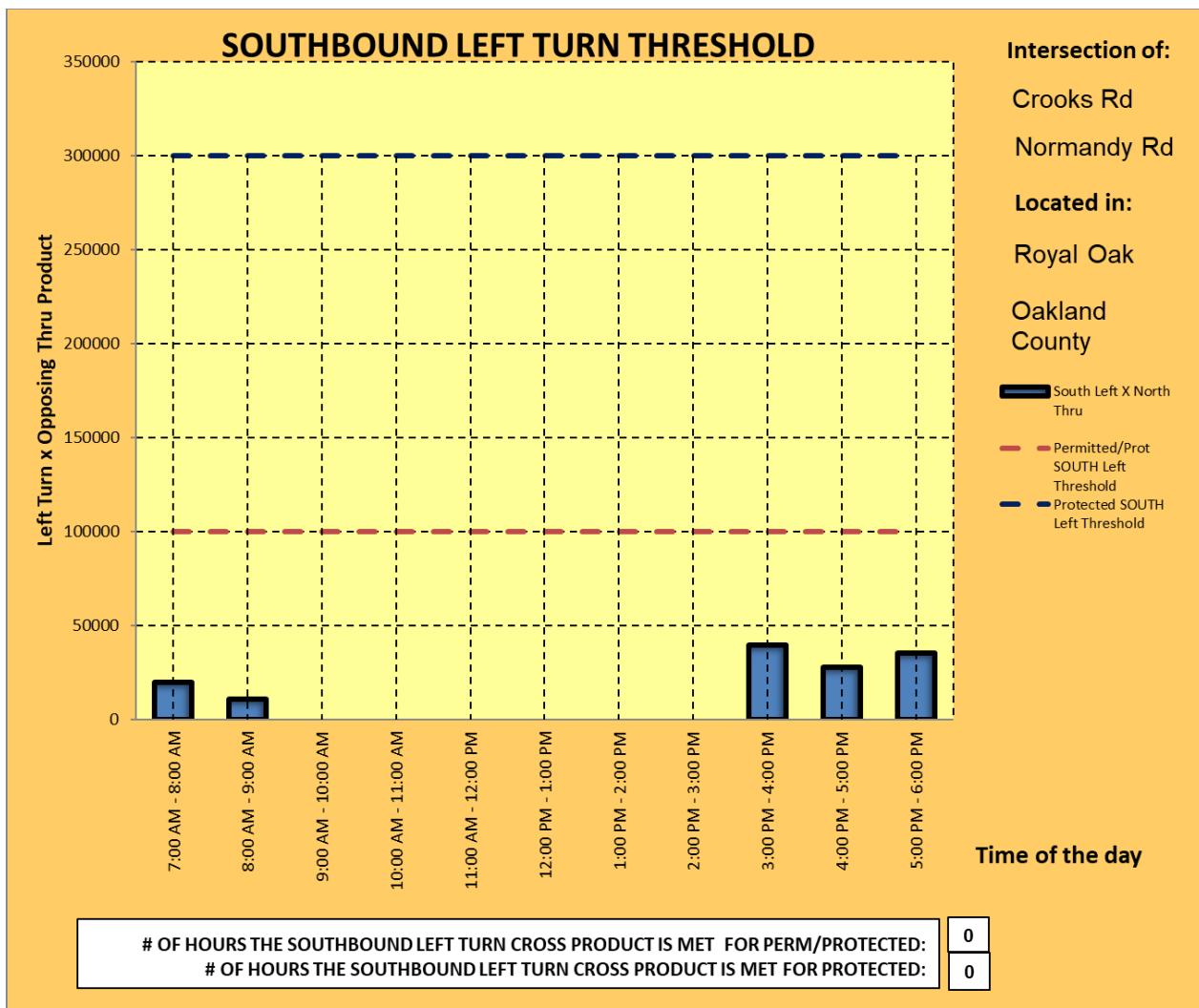
# Royal Oak, Crooks Rd & Normandy Rd, TMC Location Map

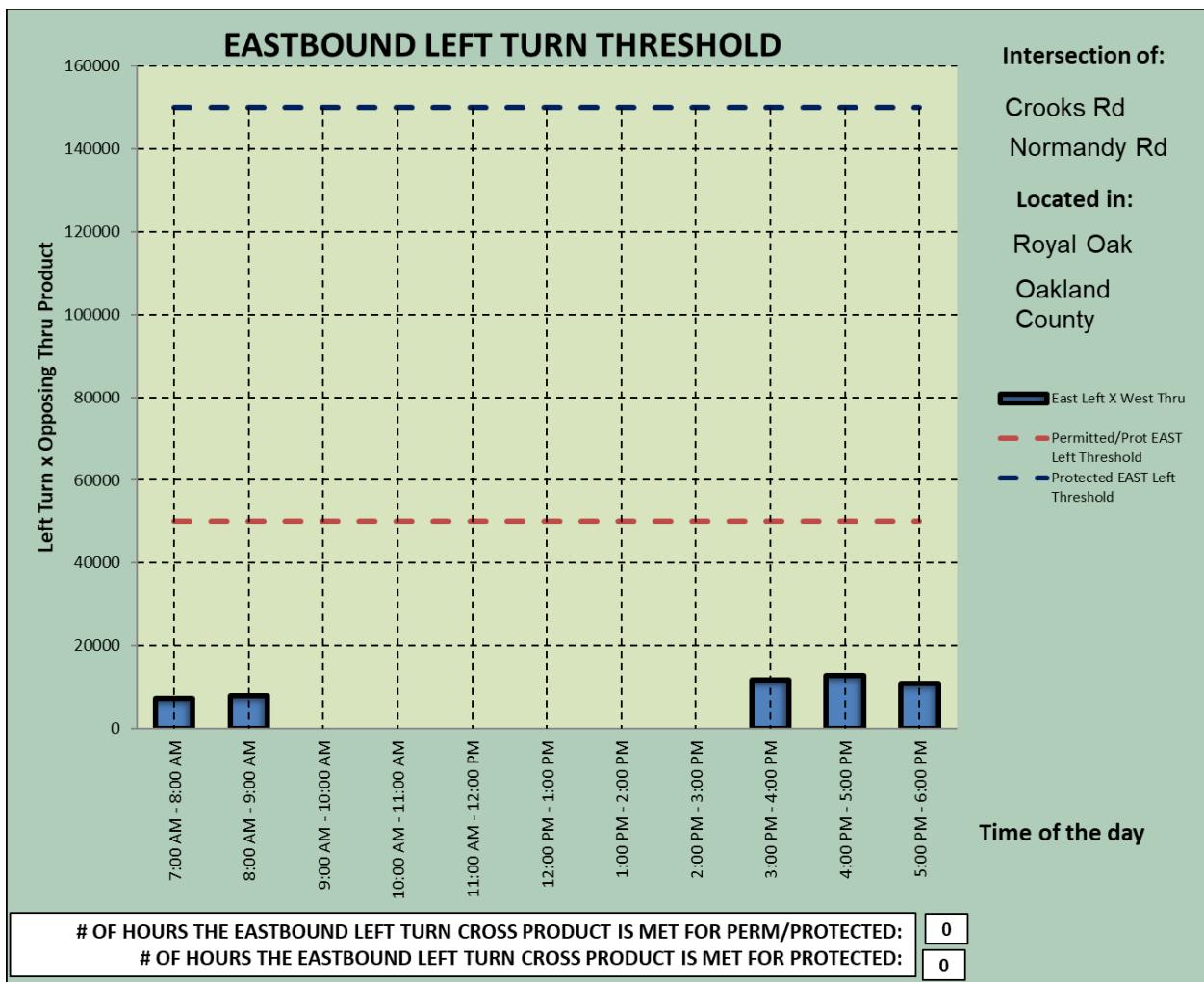
Turning Movement Count, 7-9 AM & 3-6 PM

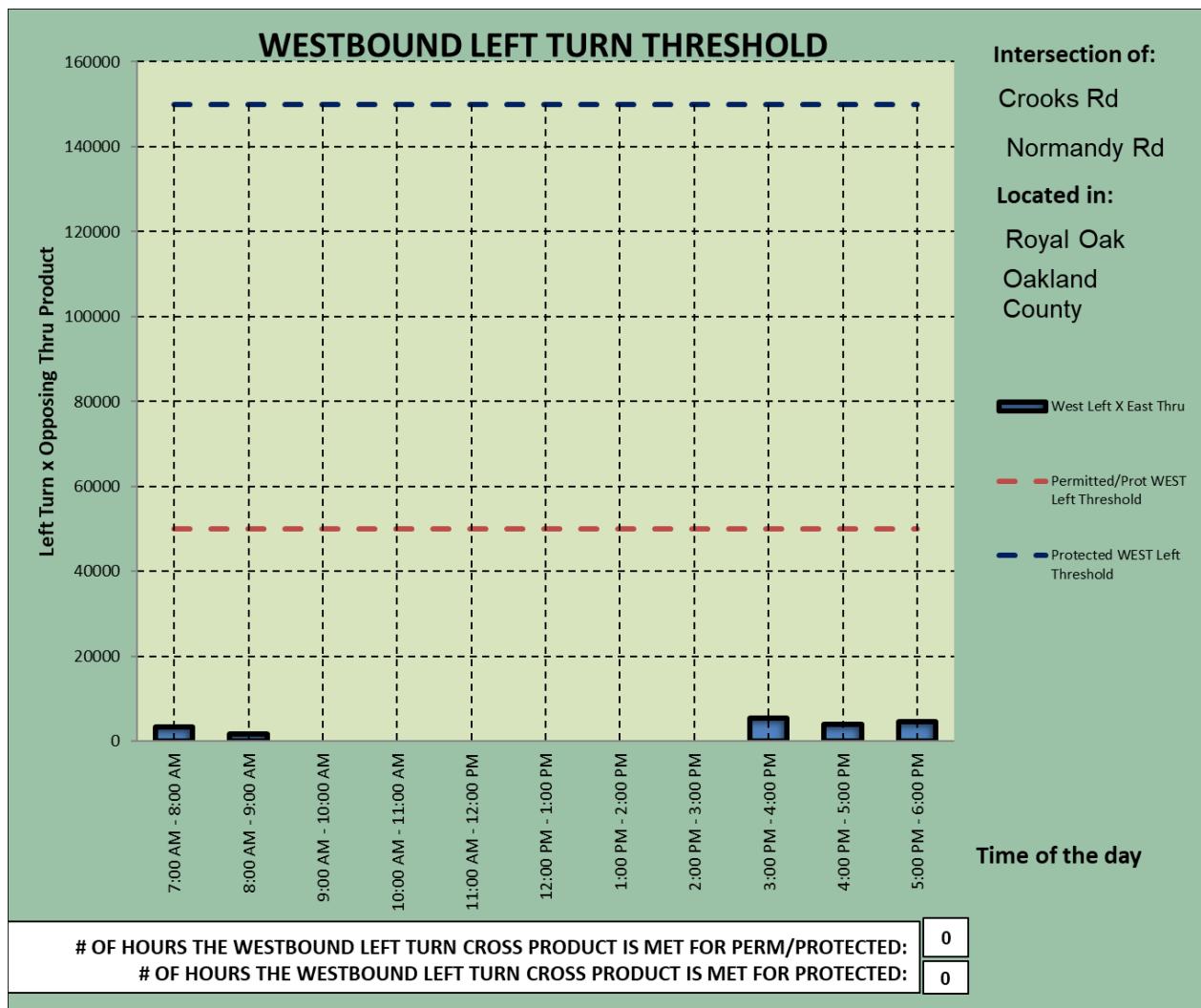


File Name:	Crooks Rd & Normandy Rd Turning Movement Count															
Start Date:	3/4/2024															
Start Time:	7:00:00 AM															
Site Code:																
Street 1:	Crooks Rd															
Street 2:	Normandy Rd															
City/Township:	Royal Oak															
County:	Oakland County															
	SB FROM Crooks Rd From North				WB FROM Normandy Rd From East				NB FROM Crooks Rd From South				EB FROM Normandy Rd From West			
Start Time	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds
07:00 AM	6	64	3	0	2	8	2	0	17	96	8	0	5	7	12	2
07:15 AM	12	94	4	0	5	7	11	0	16	113	7	0	12	5	25	0
07:30 AM	14	144	7	0	6	19	6	2	31	154	12	1	16	15	36	0
07:45 AM	17	145	14	1	10	19	13	0	61	217	36	0	15	32	23	2
08:00 AM	18	118	0	0	8	15	3	1	8	163	10	0	17	12	36	1
08:15 AM	24	129	7	0	6	11	5	4	3	149	10	0	13	10	31	0
08:30 AM	19	122	3	0	6	12	7	1	9	170	12	0	9	7	27	0
08:45 AM	18	111	5	0	6	5	4	1	5	193	9	0	6	13	21	0
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	19	198	15	1	13	20	13	4	48	173	20	1	15	24	22	2
03:15 PM	18	185	14	1	11	19	11	2	31	175	18	1	14	21	25	3
03:30 PM	20	183	10	0	7	16	7	2	17	180	17	2	13	22	30	1
03:45 PM	18	187	9	0	8	13	6	1	12	182	13	1	17	22	33	2
04:00 PM	40	195	10	2	12	17	9	3	11	186	10	5	18	23	35	7
04:15 PM	28	195	8	0	6	12	4	1	7	175	16	0	19	25	31	2
04:30 PM	26	183	11	1	13	11	5	0	8	150	12	1	14	25	44	3
04:45 PM	33	217	9	1	5	12	6	4	13	173	10	2	21	19	36	1
05:00 PM	32	232	10	1	9	15	8	9	12	183	8	2	25	24	48	1
05:15 PM	29	256	13	0	7	15	6	3	11	192	10	3	15	24	29	1
05:30 PM	31	215	10	0	10	14	8	7	11	187	25	2	20	16	30	2
05:45 PM	21	185	12	1	11	5	3	16	174	4	3	24	19	26	3	











## Royal Oak Traffic Committee

### AGENDA ITEM

<b>Title</b>	6C – Request for No Parking on one side of E. Parent Avenue
<b>SUBMITTING DEPARTMENT</b>	Engineering
<b>PRESENTER</b>	Holly Donoghue, P.E.
<b>MEETING DATE</b>	May 28, 2024

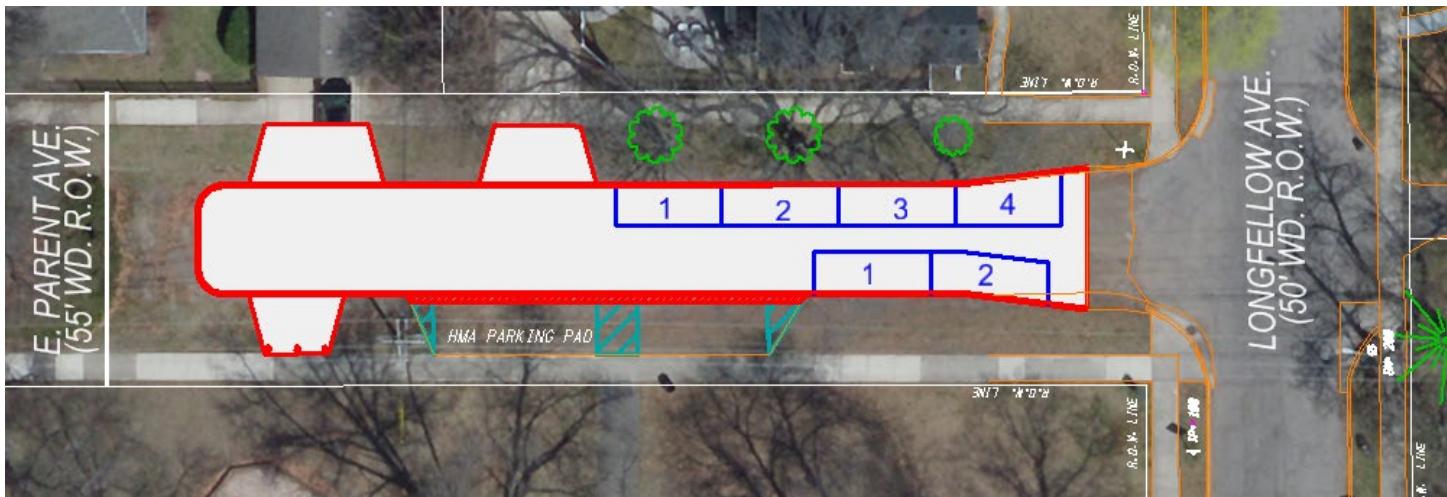
#### Requestor Concern:

A request was received from Caitlin Hall of 1222 Longfellow to pave E. Parent Avenue from Longfellow Avenue to the dead end by special assessment to the adjacent residents. As part of this process, she requested installation of a 21-foot wide roadway rather than the standard 27-foot wide roadways to avoid cutting down trees on the north side of the road. With a 21-foot wide road, one side of the road will need to be signed for no parking. Ms. Hall prefers to eliminate parking on the north side of the road. She noted that a lot of people park on her street to access Lawson Park, and they have had to deal with blocked driveways several times and also people parking at the dead end itself.

#### Staff Analysis:

The Staff Traffic Committee has reviewed this request and determined that:

1. E. Parent Avenue is a local street with a 55-foot right-of-way. The road is currently unimproved, consisting of gravel pavement.
2. This road runs along the north side of Lawson Park, which underwent several upgrades in the past years. Part of the upgrades included an asphalt parking pad along the south side of E. Parent Avenue, with striping for two handicap parking stalls. Also, the berm at the dead end of the roadway was re-graded with new trees, plantings and mulch installed.
3. Parking is currently allowed on both sides of the road.
4. There is no “dead end” sign at the end of the roadway.
5. There have not been any crashes reported on this road or at the intersection of Parent/Longfellow.
6. A preliminary design is shown below for 21-foot wide pavement along Longfellow Avenue, which maintains the existing handicap parking stalls. The number of parking spaces available is shown for the north side and also the south side.



7. Assuming the handicap parking spaces on the south side of the road remain, the following two options for no parking exist:
  - a. Eliminate parking on the north side of the road – leaves space for two vehicles to park on the south side.
  - b. Eliminate parking on the south side of the road – leaves spaces for four vehicles to park on the north side.
8. Knowing the popularity of Lawson Park, it seems prudent to select the option that provides the largest amount of parking. Additionally, drivers are more likely to park correctly on the north side of the road (facing west). To park correctly on the south side of the road, drivers would need to drive to the dead end, turn their vehicle around, then park facing east.
9. If the paving project moves forward (likely not until 2025 or 2026), staff recommends that the south side of the road be signed for no parking, except for the handicap parking area.
10. Staff also recommends that a “Dead End” and “No Parking” signs be installed at the dead end of the block this year.

**Suggested Staff Recommendation:** To install “Dead End” and “No Parking” signs at the dead end of E. Parent Avenue, east of Longfellow Avenue. If E. Parent Avenue is paved with 21-foot wide pavement, add signage to prohibit parking on the south side of the road.

Estimated cost: \$800

## Royal Oak Traffic Committee

### AGENDA ITEM

<b>Title</b>	6D – Request for Stop sign at alley off Normandy Road
<b>SUBMITTING DEPARTMENT</b>	Engineering
<b>PRESENTER</b>	Holly Donoghue, P.E.
<b>MEETING DATE</b>	May 28, 2024

**Requestor Concern:**

A request was received from Patrick McGee of 4524 Elmhurst Avenue to install a stop sign at the public alley that intersects the south side of Normandy Road, just east of Woodward Avenue. He notes that a stop sign exists at the south end of this same alley at Hunter Avenue. He is concerned that cars will creep over the sidewalk towards Normandy Road.

**Staff Analysis:**

The Staff Traffic Committee has reviewed this request and determined that:

1. Normandy Road is a 37-foot wide major road consisting of composite pavement with concrete curb.
2. The public alley that intersects Normandy Road east of Woodward Avenue is 20-feet wide and consists of concrete pavement.
3. A three-year crash history shows one crash east of the intersection of Normandy and the public alley where a resident reported damage to her parked car, appearing to be from a westbound side-swipe. There were no crashes reported at the intersection of Hunter and the public alley.
4. According to historical street-view images, a stop sign has existed at the intersection of the alley and Hunter Avenue since at least 2016. The sign was recently replaced when the corner property was redeveloped to be a car wash. The city's sign inventory does not include a record of the existing stop sign.



Stop sign in alley at Hunter Avenue (looking southbound)



5. The city typically does not install stop signs at public alleys, and if one is installed, it is likely based on an accident history or usage that results in higher than usual traffic from a public alley.
6. Prior to being redeveloped, there was a Pier 1 retail store at the corner of Woodward and Hunter, and staff assumes the stop sign was originally installed at Hunter due to higher volumes of customers exiting the property and the fact that the parking spaces at the rear of the building extended right up to the right-of-way, possibly making sight distance an issue. The existing stop sign was not shown to be removed or replaced on the development plans, and appears it was likely replaced after being damaged during the car wash construction project.
7. Michigan Vehicle Code 257.652 states, "The driver of a vehicle about to enter or cross a highway from an alley, private road, or driveway shall come to a full stop before entering the highway and shall yield right of way to vehicles approaching on the highway."
8. While the existing stop sign at Hunter does not appear to be necessary, it is also not problematic to leave it in place. A stop sign at Normandy does not appear to be warranted and installation is inconsistent with past city practice.

**Suggested Staff Recommendation: To deny the request for a stop sign within the public alley at the intersection of Normandy Road and the public alley, located east of Woodward Avenue.**

Estimated cost: \$0



## Intersection - Normandy Road and Public Alley east of Woodward

#1	Location: 3800 NORMANDY (0.612) 200 feet Eof WOODWARD						Crash ID: 2763010		
Date:	11/29/2022	Day:	Tue	Hour:	12p	Weather:	unknown		
Injy K:	0	Injy A:	0	Injy B:	0	Injy C:	0		
CVT:	Royal Oak		Area:	straight		HBD:	N		
Unit#	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1		go straight	veh in transpt	none	none	none	unknown	car	none
2	W	nodriver parked	veh parked	none	none	none	none	car	lftside

UD10: [2763010](#)

**Crash Type**

Count	Type
0	uncoded
0	single
0	head-on
0	head-on/lt
0	angle
0	rr-end
0	rr-end/lt
0	rr-end/rt
1	ss-same
0	ss-opp
0	back
0	other
0	unknown
<b>Totals</b>	<b>1</b>

**Lighting Conditions**

Count	Type
0	uncoded
0	day
0	dawn
0	dusk
0	dark/ltd
0	dark/unltd
0	other
<b>Totals</b>	<b>1</b>

**Weather Conditions**

Count	Type
0	uncoded
0	clear
0	cloudy
0	fog
0	rain
0	snow
0	wind
0	sleet/hail
0	blowing snow
0	blowing sand
0	smoke
1	unknown
<b>Totals</b>	<b>1</b>

**Road Condition**

Count	Type
0	uncoded
0	dry
0	wet
0	ice
0	snow
0	mud
0	slush
0	debris
0	water
0	sand
0	oily
0	other
1	unknown
<b>Totals</b>	<b>1</b>

**Crashes by Month**

Count	Type
0	January
0	February
0	March
0	April
0	May
0	June
0	July
0	August
0	September
0	October
1	November
0	December
<b>Totals</b>	<b>1</b>

**Hazardous Action**

Count	Type
1	none
0	speeding
0	spd too slow
0	failed to yield
0	disrgd traffic cntrl
0	wrong way
0	left of center
0	imprp passing
0	imprp lane use
0	imprp turn
0	imprp/no signal
0	imprp backing
0	unable to stop
0	other
1	unknown
0	reckls driving
0	carels driving
<b>Totals</b>	<b>2</b>

**Unit Type**

Count	Type
0	Bicyclist
0	Engineer
2	Vehicle
0	Pedestrian
<b>Totals</b>	<b>2</b>

**Crashes by Year**

Count	Type
1	2022
<b>Totals</b>	<b>1</b>

**Crash Severity**

	Fatal	A	B	C	No Injy	Total
Persons	0	0	0	0	0	0
Crashes	0	0	0	0	1	1

**Alcohol in Crashes**

	Fatal	A	B	C	PDO	Total
Drinking	0	0	0	0	0	0
Not Drinking	0	0	0	0	1	1
<b>Totals</b>	0	0	0	0	1	1

**Crashes per Hour by Day**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Total
12a-1a	0	0	0	0	0	0	0	0
1a-2a	0	0	0	0	0	0	0	0
2a-3a	0	0	0	0	0	0	0	0
3a-4a	0	0	0	0	0	0	0	0
4a-5a	0	0	0	0	0	0	0	0
5a-6a	0	0	0	0	0	0	0	0
6a-7a	0	0	0	0	0	0	0	0
7a-8a	0	0	0	0	0	0	0	0
8a-9a	0	0	0	0	0	0	0	0
9a-10a	0	0	0	0	0	0	0	0
10a-11a	0	0	0	0	0	0	0	0
11a-12p	0	0	0	0	0	0	0	0
12p-1p	0	0	1	0	0	0	0	1
1p-2p	0	0	0	0	0	0	0	0
2p-3p	0	0	0	0	0	0	0	0
3p-4p	0	0	0	0	0	0	0	0
4p-5p	0	0	0	0	0	0	0	0
5p-6p	0	0	0	0	0	0	0	0
6p-7p	0	0	0	0	0	0	0	0
7p-8p	0	0	0	0	0	0	0	0
8p-9p	0	0	0	0	0	0	0	0
9p-10p	0	0	0	0	0	0	0	0
10p-11p	0	0	0	0	0	0	0	0
11p-12a	0	0	0	0	0	0	0	0
<b>Totals</b>	0	0	1	0	0	0	0	1



## Royal Oak Traffic Committee

### AGENDA ITEM

<b>Title</b>	<b>6E – Amendment to Traffic Committee Bylaws</b>
<b>SUBMITTING DEPARTMENT</b>	<b>Engineering</b>
<b>PRESENTER</b>	<b>Holly Donoghue, P.E.</b>
<b>MEETING DATE</b>	<b>May 28, 2024</b>

#### **Requestor Concern:**

A request was received from the City of Royal Oak Manager's Office for all boards and committees to review their bylaws and update them based on a bylaws template that has been approved by the city commission.

#### **Staff Analysis:**

The city manager's office and city attorney's office prepared model bylaws which were approved by the city commission. This model version is attached and lists the various items that should be included in each committee's bylaws in an effort to maintain consistency across all boards and committees.

#### Recommended edits:

Staff has provided a "red-lined" version of the Traffic Committee bylaws, showing all the recommended edits. There is also a "clean" version of the recommended bylaws attached. Most of the changes are fairly routine, but a few items are outlined below for emphasis.

- Change name of committee to be "Royal Oak Citizens Traffic Committee" instead of "Traffic Committee"
- Added the requirement that committee members should reside or own property in Royal Oak.
- Added language regarding the Code of Conduct.
- Defined a quorum as being four committee members.
- Added language about providing accessibility under the Americans with Disabilities Act.

#### Alternate Member:

The bylaws note that the Traffic Committee shall consist of seven members. Traditionally, this committee has had seven appointed members and one appointed alternate member. The alternate did not vote unless one of the seven members was absent, and automatically became an active voting member when there was a vacancy on the committee.

Absences and split votes have historically not been a common issue for the committee, and staff does not feel that appointing an alternate is a necessity. The only other city committee with an appointed alternate is the Board of Review, which is required by the State of Michigan. If the

committee wishes to continue with this practice, it should be specifically added to the bylaws for clarity. If not, there are no additional changes needed to the bylaws, and we will inform the appointments committee that appointing an alternate is no longer needed.

**Suggested Staff Recommendation: To amend the Royal Oak Citizens Traffic Committee Bylaws as outlined in the attached document, and to stop the practice of appointing an alternate member to the committee.**

Estimated cost: \$0

# CITY OF ROYAL OAK

**Board Name**

**Approved Date Approved by City Commission**

## I. NAME

The name of this board/Commission is the **Board Name**.

## II. PURPOSE

As established by **Chapter #/Resolution** of City of Royal Oak Code of Ordinances, the purpose of the **Board Name** shall be to **insert the purpose stated in the ordinance/resolution.**

**List any other enabling local or state legislation as appropriate.**

## III. MEMBERSHIP AND VACANCIES

- a. The **Board Name** shall be made up of **#** total members. **Describe your membership...**

**Do you have a city commission representative?**

**Do you have a student member?**

**Are they appointed by the City Commission?**

**Do all have voting rights?**

**Are there membership restrictions (ex: RO Resident, relevant experience) as described in the ordinance?**

...One member shall be a staff ex officio member who does not have the ability to vote and is appointed by the City Manager or their designee.

- b. All members shall be appointed by the City Commission consistent with Chapter 12, Appointments to Advisory Boards, Commissions and Committees, of the City of Royal Oak Code of Ordinances, also known as the Appointments Ordinance.
  - i. The staff ex-officio member shall notify the City Clerk of any vacancies on the Commission who will forward any vacancies to the City Commission for consideration to fill any vacancies.
  - ii. The **Board Name** members shall keep the City Clerk's office informed of changes in their names, addresses, phone number,

- email address or other basic contact information or anything that might change their status as a commission member.
- iii. Members appointed to fill a vacancy shall hold office for the original term of the vacancy as set by the City Commission and/or the Appointments Ordinance.
- iv. Members shall comply with ordinances relating to attendance as described in Chapter 12.

#### **IV. OFFICERS**

The **Board Name** shall elect a chair, vice chair, and any other officers deemed necessary.

- a. Chair: The chair shall preside over the meeting and serve as a voting member
- b. Vice-Chair: The vice-chair shall perform the duties of chair in their absence.
- c. Staff Ex-Officio: The staff ex-officio member, who is appointed by the City Manager or their designee, shall serve as the secretary and record the minutes.
- d. Officer at large: The officer at large shall perform the duties of chair in the absence of the chair and vice chair.

Term: All officers, except for the staff ex-officio member, shall serve a one (1) year term.

Term Limit: **Include any term limit language from the ordinance/resolution.**

Qualifications to be an officer:

- a. **Insert any officer qualifications from the ordinance/resolution.**

The **Board Name** has the authority to remove a member from being an officer of the **Board Name** but does not have the authority to remove them from the **Board Name**. The **Board Name** may remove a member from being an officer, by motion, second, and the concurring affirmative vote of **Number (#)** members of the **Board Name**.

#### **V. NOMINATIONS AND ELECTIONS OF OFFICERS**

The **Board Name** shall hold the election of officers annually in **MONTH**, nominations for which shall be accepted at the **MONTH** meeting. Any member of the **Board Name** may

be nominated if they meet the requirements determined in Section IV, qualifications of officers.

Members may nominate themselves or any other appointed member of the **Board Name**.

The affirmative vote of the majority of members present for the election shall be required to be elected as an officer.

## **VI. CODE OF CONDUCT**

In general, the use of good judgment, based on high ethical principles, will guide the officers and members of **Board Name** with respect to lines of acceptable conduct. The successful operation and reputation of Royal Oak boards and commissions is built upon the principles of fair dealing and ethical conduct of members. Integrity and excellence require careful observance of the spirit and letter of all applicable laws and personal integrity. Failure to abide by these basic principles may result in removal from the **Board Name** by the City Commission.

## **VII. MEETINGS**

### a. Meeting Schedule

Regular Meetings. The **Board Name** shall adopt a schedule of regular meetings for the next year no later than the final meeting of the calendar year.

Special Meetings. Special meetings of the **Board Name** may be called by the chair or by two members of the **Board Name** in accordance with the Michigan Open Meetings Act. The **Board Name** shall notify the staff liaison of all special meetings reasonably in advance of the scheduled meeting so that the notice of the meeting shall be timely published as required by the Open Meetings Act.

All meetings of the **Board Name** shall be subject to the Michigan Open Meetings Act, Act 267 of the Public Acts of 1976, MCL 15.261 et seq.

### b. Order of Business. All meetings shall be conducted to conform to the following order:

1. Call to order
2. Roll Call
3. Agenda Approval
4. Public Comment
5. Minutes

6. Business Items
7. Adjournment

- c. Quorum. A minimum of the majority of members (50% plus one) of the **Board Name** shall constitute a quorum.
- d. Minutes. The staff ex-officio member shall be responsible for taking minutes and act as the records custodian for the **Board Name**.
- e. Action. All action by the **Board Name** shall be made by motion adopted by the concurring affirmative vote of majority of members present unless otherwise required by ordinance or state ordinance.
- f. Public Comment. The board shall follow the city commission's standard procedure for public comment. The chair has the ability to extend the three minutes per person limit.

## **VIII. PARLIAMENTARY AUTHORITY**

Parliamentary authority for the **Board Name** is governed by Robert's Rules of Order. In case of conflict between these bylaws and the Robert's Rules of Order, these bylaws control. In case of conflict between these bylaws and any city ordinance, the city ordinance controls. In case of conflict between city ordinance and state law, the state law controls.

## **IX. ADOPTION OR AMENDMENT OF BYLAWS**

- a. The **Board Name** makes a recommendation to adopt the bylaws to the Royal Oak City Commission. A recommendation to adopt, modify or repeal the bylaws shall be approved by two-thirds of the entire membership of the **Board Name**.
- b. The Royal Oak City Commission has the authority to approve, amend, or repeal these bylaws.
- c. The **Board Name** shall review these bylaws annually in February. If there is no proposed amendments then no action is needed.

## **X. GENERAL PROVISIONS**

No member of the board shall order or instruct city staff members to perform any service or duty. If a board feels that they are inadequately supported they can address that through the staff liaison and the city manager.

## **XI. MICHIGAN FREEDOM OF INFORMATION ACT COMPLIANCE MANDATORY**

The **Board Name** shall comply with the Michigan Freedom of Information Act (FOIA) [Public Act 422 of 1976, MCL § 15.231 et seq.] and the city's current FOIA policy. The City Clerk and Human Resource Director shall assist the **Board Name** in compliance.

## **XII. MICHIGAN OPEN MEETINGS ACT COMPLIANCE MANDATORY**

The **Board Name** shall comply with the Michigan Open Meetings Act (OMA) [Public Act 267 of 1976, MCL § 15.261 et seq.].

## **XIII. ACCESSIBILITY**

Anyone planning to attend a public meeting of the **Board Name** who has need of special assistance under the Americans with Disabilities Act (ADA) is asked to contact the City Clerk's office at 248-246-3050 or email [CityClerk@romi.gov](mailto:CityClerk@romi.gov) at least two (2) business days prior to the meeting so that the city can support the full participation of members of the community.

**DRAFT**  
**CITY OF ROYAL OAK**  
**ROYAL OAK CITIZENS TRAFFIC COMMITTEE BYLAWS**  
**APPROVED JANUARY 2016 APPROVED JUNE 2024**

**I. NAME**

— The name of this committee is the Royal Oak Citizens Traffic Committee, and referred to as the “Traffic Committee” throughout these bylaws.

**II. PURPOSE**

The purpose of this committee is to review proposed traffic regulations, traffic and pedestrian safety and residential parking issues, as established by the City of Royal Oak, City Code of Ordinances Chapter 39, Article IV. The committee shall comply with all Federal, state and local laws.

**III. MEMBERSHIP AND VACANCIES**

- a. The committee shall consist of seven (7) members who reside or own property within the City of Royal Oak. The City Engineer or their appointed engineer shall be the staff ex officio member, who does not have the ability to vote.
- b. All members shall be appointed by the city commission consistent with Chapter 12, Appointments to Advisory Boards, Commissions and Committees, of the City of Royal Oak Code of Ordinances, also known as the Appointment Ordinance, No. 93-21 as amended by No. 2000-08.
  - i. The committee staff ex officio member shall promptly notify the city commission, through the city clerk's office, of any vacancies on the committee.
  - ii. The committee members shall also keep the city clerk's office timely informed of the names, addresses, telephone numbers, email addresses and other contact information for each member of the committee or anything that might change their status as a committee member.
  - iii. Members appointed to fill a vacancy shall hold office until the term expires as set by the city commission and/or the Appointments Ordinance.
  - iv. Refer to the City Code, Chapter 12: Appointments to Advisory Boards, Commissions and Committees for current rules regarding vacancies and absences from meetings.

**IV. OFFICERS**

The officers of the Traffic Committee are the chairperson, vice chairperson and as many other officers as the committee deems necessary.

*Duties.* The chairperson shall preside over the meetings of the committee. The chairperson shall have no administrative authority over the committee.

The vice-chairperson shall preside over the meeting of the committee in the absence of the chairperson.

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*Terms of Office.* Each officer shall be elected to serve a term of one (1) years, or until he or she has been duly succeeded. Each officer's term of office shall begin at the close of the first meeting immediately following his or her election.

### **V. Code of Conduct**

In general, the use of good judgement, based on high ethical principles, will guide the officers and members of the Traffic Committee with respect to lines of acceptable conduct. The successful operation and reputation of Royal Oak boards and commissions is built upon the principles of fair dealing and ethical conduct of members. Integrity and excellence require careful observance of the spirit and letter of all applicable laws and personal integrity. Failure to abide by these basic principles may result in removal from the Traffic Committee by the City Commission.

### **VI. MEETINGS**

*Regular Meetings.* There shall be at least three (3) meeting(s) of the committee each year. The committee is free to hold as many meetings as it deems necessary. Regular meetings will be held on the fourth Tuesday of every other (CC02/07/05) month in the evening in room 121 of Royal Oak City Hall, 203 S. Troy Street (CC08/22/22), Royal Oak, Michigan. The second meeting of the year shall be the annual meeting.

*Special Meetings.* Special meetings of the committee may be called by the chairperson or by a majority vote of the members of the committee.

All meetings of the committee shall comply with the Michigan Open Meetings Act, Act 267 of the Public Acts of 1976, MCL 15.261 *et seq.* The committee shall notify the city clerk's office of all meetings reasonably in advance of the scheduled meeting.

*Order of Business.* All meetings shall be conducted to conform to the following order:

- a. Meeting Called to Order
- b. Roll Call & Preamble
- c. Approval of Minutes
- d. Agenda
- e. Announcements
- df. Public Comment for Items not on the Agenda
- eg. Rescheduled Items and Old Business
- fh. New business Agenda Items
- gi. Information Only Items
- hj. Motion to Adjourn Adjournment

*Quorum.* Four committee members shall be present to constitute a quorum. A majority of the committee members present shall constitute a quorum.

*Minutes.* The staff ex officio member city engineer shall record the minutes of all meetings, resolutions and votes. The minutes will be filed with the city clerk's office.

*Action.* All action by the committee shall be made by motion adopted by a majority of the membership.

### **VII. PARLIAMENTARY AUTHORITY**

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Parliamentary authority for the committee is governed by Robert's Rules of Order (~~Newly Revised, 10th Edition~~). In case of conflict between these bylaws and the Robert's Rules of Order, these bylaws control. In case of conflict between these bylaws and any city ordinance, the city ordinance controls. In case of conflict between city ordinance and state legislation, the state legislation controls.

### **VIII. NOMINATIONS AND ELECTIONS OF OFFICERS**

Elections shall take place as needed when the Traffic Committee is notified that the Vice Chair will no longer be on the Traffic Committee on (in) [date or event].

- (a) Nominations. Nominations may be made by any member of the committee at the meeting convened to conduct elections.
- (b) Tie vote. In case of a tie vote, the successful candidate shall be determined by lot conducted by the staff ex officio member~~ity engineer~~.
- (c) Vacancies and special elections. In the event that a vacancy occurs in the position of the chairperson, the vice chairperson shall automatically assume the position of chairperson for the remainder of the term.

In the event a vacancy occurs in the position of any other officers, a special election will be conducted to elect (a) new officer(s) to fill the vacancy for the remainder of the term.

Special elections shall observe the procedures established for general elections.

- (d) Voting. The majority of the members voting shall decide general and special elections.

### **IX. ADOPTION AND AMENDMENT OF BYLAWS**

Adoption. Recommendations to adopt these bylaws to the city commission shall be adopted by two-thirds vote of the entire membership of the committee.

Amendment. Recommendations to amend these bylaws to the city commission may be made by two-thirds vote of the entire membership of the committee.

These bylaws are subject to approval, modification or repeal by the city commission.

### **IX. GENERAL PROVISIONS**

No member of the committee shall order or instruct any city staff member to perform any service or duty without having first been approved by majority vote of the traffic committee.

The committee is an advisory organization to the City of Royal Oak and its city commission and acts by making recommendations to the city commission.

The objectives and membership of the City of Royal Oak Traffic Committee are those set forth in the Uniform Traffic Code for Cities, Townships and Villages. The committee shall limit its review to neighborhood traffic and safety issues only unless otherwise requested

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by the city commission. In all cases, the traffic committee shall request entities proposing to impact traffic flow to complete a traffic study to assist in the committee's work.

Subsequent to the committee taking action on a traffic request, at least one year must pass before the committee can again consider a similar request. (CC02/07/05)

The committee is authorized to perform reviews and make recommendations for the designation of residential permit parking zones (Code 497), and for the allowance of residential pull-off parking areas (Code 498).

The city engineer shall prepare the agenda of regular and special meetings with the chairperson, provide notice of meetings to Committee members, and attend to correspondence of the Committee

Special committees may be appointed by the chairperson or vice chairperson for purposes and terms which the committee approved.

**XI. MICHIGAN FREEDOM OF INFORMATION ACT COMPLIANCE MANDATORY**

Committee shall specifically comply with the Michigan Freedom of Information Act (FOIA) [Public Act 422 of 1976, MCL § 15.231 *et seq.*] and the city's most recent FOIA policy. The City Clerk and Human Resources Director will assist the committee in compliance.

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**XIII. SUNSET PROVISION**

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