



229 Broadway, Unit 1
Orangeville, Ontario, L9W 1K4
Tel: (519) 941-0330
Fax: (519) 941-1830
Email: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST • HARRISTON

June 24, 2022

Town of Orangeville
87 Broadway
ORANGEVILLE, Ontario
L9W 1K1

Attention: Mr. John Lackey, P.Eng.
Manager of Operations and Development

RE: INTERSECTION ANALYSIS
Pheasant Drive/Passmore Avenue
Town of Orangeville
Our File: I4752A

Dear Mr. Lackey:

Triton Engineering Services Limited undertook a traffic count at the intersection of Pheasant Drive and Passmore Avenue, for the purpose of determining whether an all-way stop was warranted. The count was undertaken on Wednesday, June 22, 2022, from 7:00 am to 9:00 am, from 11:00 am to 2:00 pm, and from 3:00 pm to 6:00 pm. A summary of the vehicle and pedestrian movements is attached, broken down into 15-minute intervals.

The warrant for an all-way stop is determined from Book 5 of the Ontario Traffic Manual. The latest version was released in 2021 and contains updated warrants, including different warrants for urban arterial roads, collector and rural arterial roads, and local roads. Pheasant Drive and Passmore Avenue are considered local roads. For a local road, the warrant is:

- 200 vehicles per hour for each of any four hours in a day;
- combined vehicular and pedestrian volume on the minor street wishing to enter the intersection exceeding 75 units per hour for the same four hours; and,
- a volume split that does not exceed 70/30 as measured over the entire eight hour count, with the major street volume only including vehicles and the minor street volume including vehicles and pedestrians wishing to cross the major street (for a three-legged intersection, a 75/25 split is permissible).

The highest hourly volume recorded was 58 vehicles from 4:00 pm to 5:00 pm, the highest combined vehicular and pedestrian volume on the minor street was 84 vehicles and pedestrians from 3:00 pm to 4:00 pm, but this was the only hour that the volume exceeded 75, and the split during the eight hour count was 46/54. The intersection traffic volumes do not exceed the minimum volumes for any single hour of the day and the minor street vehicle and pedestrian volumes do not exceed 75 units for all four highest counted hours; therefore an all-way stop is not warranted.

We trust that this is the information you require, and please call if we can be of further assistance.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED

A handwritten signature in black ink, appearing to read 'T. Kramp', with a stylized flourish at the end.

Taylor Kramp, P. Eng.

cc Howard Wray, P.Eng.

Vehicle and Pedestrian Movements
Pheasant Drive and Passmore Avenue

Traffic Counts

Date of Count: June 22, 2022
Weekday AM Traffic Count Summary - Pheasant Drive & Passmore Avenue

Time	Total Vehicles							Pedestrians Crossing	
	WB on Passmore		NB on Pheasant		SB on Pheasant		SUM	Passmore	Pheasant
	left	right	through	right	left	through			
7:00 am to 7:15 am	0	0	1	1	0	0	2	3	2
7:15 am to 7:30 am	0	0	1	1	0	0	2	1	2
7:30 am to 7:45 am	0	0	3	0	0	2	5	2	1
7:45 am to 8:00 am	0	0	6	0	0	1	7	0	0
8:00 am to 8:15 am	0	1	5	3	1	2	12	4	16
8:15 am to 8:30 am	0	0	4	1	1	4	10	2	19
8:30 am to 8:45 am	0	0	2	1	0	1	4	2	12
8:45 am to 9:00 am	1	0	1	0	1	0	3	0	8
11:00 am to 11:15 am	1	1	0	1	0	1	4	0	0
11:15 am to 11:30 am	1	0	0	1	0	1	3	2	5
11:30 am to 11:45 am	0	1	3	1	1	1	7	1	1
11:45 am to 12:00 pm	0	0	0	0	0	1	1	0	4
Totals	3	3	26	10	4	14	60	17	70

Date of Count: June 22, 2022
Weekday PM Traffic Count Summary - Pheasant Drive & Passmore Avenue

Time	Total Vehicles							Pedestrians Crossing	
	WB on Passmore		NB on Pheasant		SB on Pheasant		SUM	Passmore	Pheasant
	left	right	through	right	left	through			
12:00 pm to 12:15 pm	1	0	0	0	0	2	3	0	2
12:15 pm to 12:30 pm	0	2	1	1	1	0	5	0	0
12:30 pm to 12:45 pm	1	2	1	0	0	5	9	1	1
12:45 pm to 1:00 pm	0	0	1	0	0	0	1	0	1
1:00 pm to 1:15 pm	1	2	1	0	0	2	6	0	1
1:15 pm to 1:30 pm	0	1	0	0	1	1	3	0	1
1:30 pm to 1:45 pm	0	0	2	0	0	1	3	0	0
1:45 pm to 2:00 pm	0	0	1	2	0	3	6	0	0
3:00 pm to 3:15pm	4	3	0	3	0	1	11	16	12
3:15 pm to 3:30pm	5	1	1	4	0	2	13	6	8
3:30 pm to 3:45 pm	4	2	1	1	2	2	12	4	14
3:45 pm to 4:00 pm	1	0	3	0	0	5	9	0	4
4:00 pm to 4:15 pm	1	2	6	1	1	1	12	0	0
4:15 pm to 4:30 pm	4	1	3	2	0	4	14	0	1
4:30 pm to 4:45 pm	8	2	1	4	0	4	19	0	1
4:45 pm to 5:00 pm	2	1	2	3	0	5	13	0	1
5:00 pm to 5:15 pm	6	2	1	0	0	3	12	0	0
5:15 pm to 5:30 pm	2	1	1	2	1	2	9	2	0
5:30 pm to 5:45 pm	3	0	5	3	1	3	15	0	4
5:45 pm to 6:00 pm	6	0	1	1	0	2	10	2	1
Totals	49	22	32	27	7	48	185	31	52