

November 21, 2019

Highglen Homes Limited 10148 Warden Avenue Markham, ON L6C 1N3

Attention: Mr. John Perciasepe

Re: Traffic Opinion Letter

Proposed Residential Development Finch Avenue & Nature Haven Crescent City of Pickering, Durham Region

1.0 Introduction

CGE Transportation Consulting is pleased to provide this traffic opinion letter in support of eight (8) single family residential lots, located at the northeast corner of Finch Avenue and Nature Haven Crescent (east intersection), in the City of Pickering.

Due to the small scale of the proposed development (8 residential lots), we have prepared a traffic opinion letter instead of a full comprehensive transportation study. The traffic opinion letter will analyze the existing traffic conditions at the key intersection and comment on whether the proposed development has any impacts to the surrounding road network.

The subject site is located to the immediate east of a small residential subdivision that has 38 single family lots. The proposed eight houses will add to this community and make up for a total of 46 lots

All of these houses in this subdivision access Finch Avenue via Nature Haven Crescent at two intersections. Both intersections are unsignalized.

Finch Avenue is a minor collector road that has two east-west travel lanes in the vicinity of the study area. It is under the jurisdictional control of the City of Pickering and has a speed limit of 50 km/hour. Nature Haven Crescent is a two-lane local road with 40 km/hour speed limit and is also under the City of Pickering jurisdictional control.

The subject site location is illustrated in **Error! Not a valid bookmark self-reference.**. The site plan is shown in Appendix A.

Email: casey@cgeconsulting.ca | Phone: 416-602-1885

Figure 1 Site Location



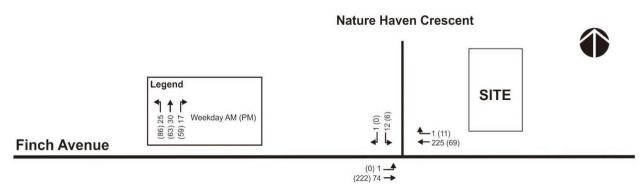
2.0 EXISTING TRAFFIC VOLUMES

Traffic data was undertaken by Accu-Traffic on Thursday November 14, 2019 from 7-9am and 4-6pm. The date and time were chosen to reflect the residential nature of the development.

As expected, the subject site is a minor traffic generator with negligible number of vehicles travelling through the site accesses during the weekday peak hours.

The peak hour traffic volumes are shown in Figure 2. The raw data for the turning movement counts are shown in Appendix B.

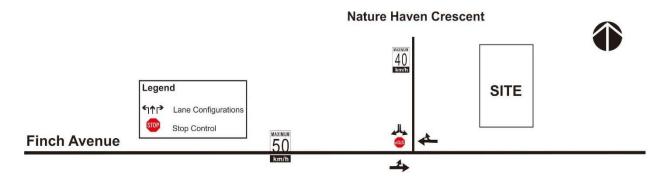
Figure 2 Existing Peak Hour Traffic Volumes



There is one outbound lane and one inbound lane on Nature Haven Crescent. It meets Finch Avenue at an unsignalized T-intersection. This section of Finch Avenue is flat horizontally and vertically and there are adequate sight line distances in both eastbound and westbound direction on Finch Avenue.

The existing lane configuration and traffic control is shown in Figure 3.

Figure 3 Existing Lane Configuration & Traffic Control



3.0 OPERATION ANALYSIS

Intersection capacity analyses contained in this study were undertaken using the Synchro software (Version 8.0), which is based on the methodologies and procedures outlined in the Highway Capacity Manual (HCM) 2000 published by the Transportation Research Board.

Table 1 summarizes the analysis results for the proposed site access, detailed Synchro calculations are provided in Appendix C.

Table 1 Intersection Analysis Summary

Intersection	Movements	Weekday AM	l Peak Hour	Weekday PN	M Peak Hour
intersection	Movements	LOS (v/c)	Delay (s)	LOS (v/c)	Delay (s)
Finch Avenue & Nature Haven Crescent (Stop Control T-intersection)	EBLT SBLR	A (<0.01) B (0.02)	0.1 10.5	- B (0.01)	- 10.4

The Finch Avenue and Nature Haven Crescent intersection operates with excellent delays and sufficient capacity (v/c ratio of 0.02 or better). The queen for southbound movement is less than one vehicle.

3.1 SIGHT LINE DISTANCES

The posted speed on Finch Avenue is 50 km/hour and the design speed is assumed to be 60 km/hour to be conservative. As per the June 2017 TAC Guideline Chapter 9, Page 68, Table 9.9.4 Design Intersection Sight Distance – Case B1, Left Turn From Stop, The stopping sight distance for this design speed is 85 meters. The intersection sight distance for passenger cars exiting the access and make left turns is 130 meters.



Geometric Design Guide for Canadian Roads Chapter 9 – Intersections

Table 9.9.4: Design Intersection Sight Distance - Case B1, Left Turn From Stop

Design Speed	Stopping Sight	Intersection Sight Dista	nce for Passenger Cars
(km/h)	Distance (m)	Calculated (m)	Design (m)
20	20	41.7	45
30	35	62.6	65
40	50	83.4	85
50	65	104.3	105
60	85	125.1	130
70	105	146.0	150
80	130	166.8	170
90	160	187.7	190
100	185	208.5	210
110	220	229.4	230
120	250	250.2	255
130	285	271.1	275

Note: Intersection sight distance shown is for a stopped passenger car to turn left onto a two-lane highway with no median and grades 3% or less. For other conditions, the time gap should be adjusted and the sight distance recalculated.

Finch Avenue is flat both horizontally and vertically for this section of the roadway. There are no obstructions in both directions, therefore adequate sight distances are available in both eastbound and westbound direction.

4.0 CONCLUSIONS

The key findings are summarized below:

- The traffic generated from the proposed development is minor and will not cause significant impact to the surround road network.
- Six residential lots have driveways via Nature Haven Crescent while two lots connects to Finch Avenue directly.
- The existing traffic operations at the Finch Avenue and Nature Haven Crescent intersection is excellent with no queuing issues in all movements during the weekday peak analysis periods.
- There are adequate sight distances in both eastbound and westbound approaches along Finch Avenue.

Yours truly,

CGE TRANSPORTATION CONSULTING

Casey Ge, P.Eng.

President

Appendix A: Site Plan

Appendix B: Turning Movement Counts (Raw Data)

Appendix C: Synchro Outputs

Appendix A

Site Plan



Appendix B

Turning Movement Counts (Raw Data)



Accu-Traffic Inc. **Morning Peak Diagram Specified Period One Hour Peak** From: 7:00:00 From: 7:30:00 To: 9:00:00 To: 8:30:00 Weather conditions: Municipality: Pickering Site #: 1918600001 Intersection: Finch Ave & Nature Haven Crescen **Person counted:** TFR File #: Person prepared: Count date: 14-Nov-19 Person checked: ** Non-Signalized Intersection ** Major Road: Finch Ave runs W/E North Leg Total: 15 Heavys 0 1 1 Heavys 1 East Leg Total: 312 0 Trucks 0 East Entering: North Entering: 13 0 Trucks 0 226 North Peds: Cars 1 11 12 Cars 1 East Peds: X Totals 2 Peds Cross: Totals 1 12 Peds Cross: Nature Haven Crescent Totals Trucks Heavys Totals Heavys Trucks Cars Cars 1 226 223 2 225 222 Finch Ave 222 3 Heavys Trucks Cars Totals Finch Ave 0 1 6 0 68 74 Cars Trucks Heavys Totals 7 69 79 0 86 X Peds Cross: West Peds: West Entering: 75 West Leg Total: 301

Comments



Accu-Traffic Inc. **Specified Period Afternoon Peak Diagram One Hour Peak** From: 16:00:00 From: 16:45:00 To: 18:00:00 To: 17:45:00 Weather conditions: Municipality: Pickering 1918600001 Site #: Intersection: Finch Ave & Nature Haven Crescen **Person counted:** TFR File #: Person prepared: Count date: 14-Nov-19 Person checked: ** Non-Signalized Intersection ** Major Road: Finch Ave runs W/E North Leg Total: 17 Heavys 0 0 0 Heavys 0 East Leg Total: 308 0 North Entering: 6 Trucks 0 0 Trucks 0 East Entering: 80 North Peds: Cars 0 6 6 Cars 11 East Peds: X Totals 11 Peds Cross: Totals 0 6 Peds Cross: Nature Haven Crescent Totals Trucks Heavys Totals Heavys Trucks Cars Cars 1 69 0 68 0 11 0 69 Finch Ave 0 Heavys Trucks Cars Totals Finch Ave 0 0 0 222 222 Cars Trucks Heavys Totals 222 228 0 0 228 X Peds Cross: 2 West Peds: West Entering: 222 West Leg Total: 291 **Comments**



Total Count Diagram

Municipality: Pickering

Site #: 1918600001

Intersection: Finch Ave & Nature Haven Crescen

TFR File #: 1

Count date: 14-Nov-19

Weather conditions:

Person counted: Person prepared:

Person checked:

Nature Haven Crescent

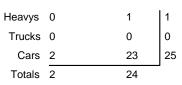
** Non-Signalized Intersection **

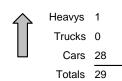
North Leg Total: 55

North Entering: 26

North Peds: 1

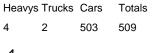
Peds Cross: ▶



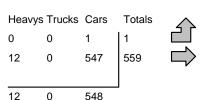


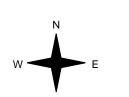
Major Road: Finch Ave runs W/E

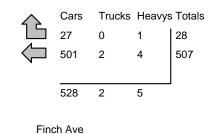


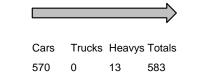












Peds Cross: X
West Peds: 5
West Entering: 560
West Leg Total: 1069

Comments



Accu-Traffic Inc. Traffic Count Summary

Municipality: Pickering Intersection: Finch Ave & Nature Haven Cresce Count Date: 14-Nov-19 **North Approach Totals South Approach Totals** North/South Includes Cars, Trucks, & Heavys Includes Cars, Trucks, & Heavys Total Hour Hour Total Total Grand Grand **Ending** Peds **Ending** Peds Approaches Thru Right Thru Right Total Left Total 7:00:00 0 0 0 0 0 0 7:00:00 0 0 0 0 0 8:00:00 5 0 1 6 0 6 8:00:00 0 0 0 0 0 9 9:00:00 0 0 9 1 9 9:00:00 0 0 0 0 0 0 0 0 0 0 0 0 0 16:00:00 0 0 16:00:00 0 5 0 0 0 17:00:00 4 0 5 0 17:00:00 0 0 1 6 0 0 6 18:00:00 0 0 18:00:00 0 Totals: 26 S Totals: 0 26 0 **East Approach Totals West Approach Totals** East/West Includes Cars, Trucks, & Heavys Includes Cars, Trucks, & Heavys Total Hour Hour Total Total Grand **Ending** Peds **Ending** Peds Approaches Right Left Thru Right Left Thru Total Total 7:00:00 0 0 0 0 7:00:00 0 0 0 0 0 195 196 0 261 64 0 8:00:00 1 8:00:00 1 0 65 9:00:00 0 173 2 175 0 261 9:00:00 0 86 0 86 3 16:00:00 0 0 0 0 0 0 16:00:00 0 0 0 0 0 17:00:00 0 73 11 84 0 285 17:00:00 0 201 0 201 2 208 18:00:00 66 14 80 288 18:00:00 208 Totals: 0 507 535 1095 W Totals: 560 5 **Calculated Values for Traffic Crossing Major Street** Hours Ending: 9:00 16:00 17:00 18:00 0:00 0:00 7:00 8:00 Crossing Values: 12



Count	Date:	14-NOV	-19	Site #:	191860	0001														
		Passeng	ger Cars -	North A	pproach			True	cks - Nort	h Approa	ach			He	avys - No	rth Appr	oach		Pedes	trians
Interval	Le	eft	Th	ru	Rig	ght	Le	eft	Th	ru	Riç	ght	Le	eft	Th	ru	Ri	ght	North	Cross
Time	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr
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7:45:00	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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8:15:00	6	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
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8:45:00	11	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
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16:30:00 16:45:00	14 15	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
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17:13:00	19	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
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18:15:00	23	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
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		Passen	ger Cars	- East Ap	proach			Tru	cks - Eas	t Approa	ch			He	eavys - Ea	ast Appro	oach		Pedes	trians
Interval	Le	eft	Th	ru	Riç	ght	Le	eft	Th	ru	Riç	ght	Le	ft	Th	ru	Rig	ght	East (Cross
Time	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr
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Interval	Le	eft	Th	ru	Riç	ght	Le	eft	Th	ru	Riç	ght	Le	eft	Th	ru	Rig	ght	South	Cross
Time	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr
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18:00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Count	Date:	14-NOV	-19	Site #:	191860	0001							1							
		Passen	ger Cars	- West A	pproach			Tru	cks - Wes	t Approa	nch			Не	avys - W	est Appr	pach		Pedes	trians
Interval	Le	eft	Th	ru	Riç	ght	Le	eft	Th	ru	Rig	ght	Le	eft	Th	ru	Rig	ght	West	Cross
Time	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr	Cum	Incr
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7:30:00	0	0	24	12	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0
7:45:00	0	0	43	19	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0
8:00:00	1	11	59	16	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0
8:15:00	1	0	69	10	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
8:30:00	1	0	92	23	0	0	0	0	0	0	0	0	0	0	8	3	0	0	0	0
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9:00:00	1	0	139	26	0	0	0	0	0	0	0	0	0	0	11	2	0	0	3	0
9:15:00	1	0	139	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	3	0
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16:15:00	1	0	172	33	0	0	0	0	0	0	0	0	0	0	11	0	0	0	3	0
16:30:00	1	0	231	59	0	0	0	0	0	0	0	0	0	0	12	1	0	0	3	0
16:45:00	1	0	281	50	0	0	0	0	0	0	0	0	0	0	12	0	0	0	3	0
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17:15:00	1	0	387	48	0	0	0	0	0	0	0	0	0	0	12	0	0	0	5	0
17:30:00	1	0	450	63	0	0	0	0	0	0	0	0	0	0	12	0	0	0	5	0
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18:00:00	1	0	547 547	44 0	0	0	0	0	0	0	0	0	0	0	12 12	0	0	0	5 5	0
18:15:00 18:15:15	1	0	547	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	5	0
10.13.13	ı	U	347	U	0	U	U	U	U	U	U	U	0	U	12	U	U	U	3	U

Appendix C

Synchro Outputs

	۶	→	←	•	-	4
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	1→		W	
Volume (veh/h)	1	74	225	1	12	1
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	80	245	1	13	1
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	246				328	245
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	246				328	245
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				98	100
cM capacity (veh/h)	1320				666	794
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	82	246	14			
Volume Left	1	0	13			
Volume Right	0	1	1			
cSH	1320	1700	674			
Volume to Capacity	0.00	0.14	0.02			
Queue Length 95th (m)	0.00	0.14	0.02			
	0.0	0.0	10.5			
Control Delay (s) Lane LOS		0.0	10.5 B			
	A 0.1	0.0	10.5			
Approach Delay (s)	0.1	0.0				
Approach LOS			В			
Intersection Summary						
Average Delay			0.5			
Intersection Capacity Utiliz	zation		21.9%	IC	U Level c	f Service
Analysis Period (min)			15			

	۶	-	•	•	-	✓
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	1→		W	
Volume (veh/h)	0	222	69	11	6	0
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	241	75	12	7	0
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	87				322	81
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	87				322	81
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				99	100
cM capacity (veh/h)	1509				671	979
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	241	87	7			
Volume Left	0	0	7			
Volume Right	0	12	0			
cSH	1509	1700	671			
	0.00	0.05	0.01			
Volume to Capacity Queue Length 95th (m)	0.00	0.05	0.01			
• , ,	0.0	0.0	10.4			
Control Delay (s)	0.0	0.0				
Lane LOS	0.0	0.0	B			
Approach Delay (s)	0.0	0.0	10.4			
Approach LOS			В			
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utiliz	ation		21.7%	IC	U Level c	f Service
Analysis Period (min)			15			