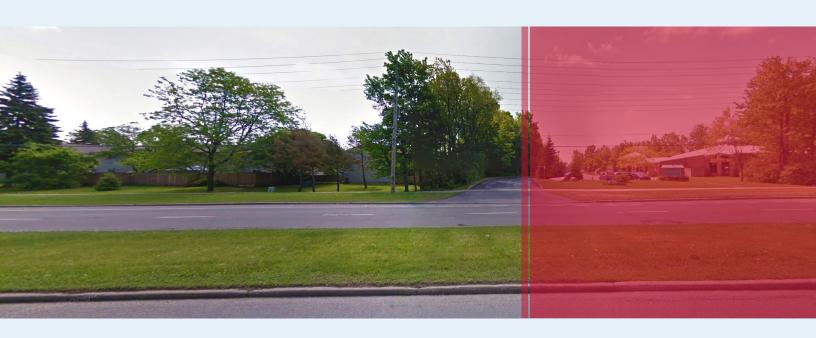




Richcraft 1298 Ogilvie Road

■ TIA Forecasting and Strategy Report





Richcraft 1298 Ogilvie Road

TIA Forecasting and Strategy Report

prepared for: Richcraft Group of Companies Inc. 2280 St Laurent Blvd, Suite 201 Ottawa, ON K1G 4K1

prepared by:

PARSONS

1223 Michael Street North Suite 100 Ottawa, ON K1J 7T2

February 27, 2018

476609 - 01000



Table of Contents

1. SCREENING FORM	
DESCRIPTION OF PROPOSED DEVELOPMENT EXISTING CONDITIONS	
AREA ROAD NETWORK	
3.3. TRANSIT NETWORK	
3.4. EXISTING STUDY AREA INTERSECTION	
3.5. EXISTING INTERSECTION VOLUMES	5
3.6. EXISTING ROAD SAFETY CONDITIONS	6
4. PLANNED CONDITIONS	6
4.1. PLANNED STUDY AREA TRANSPORTATION NETWORK CHANGES	6
4.2. OTHER AREA DEVELOPMENT	7
5. STUDY AREA	8
5.1. TRANSIT	8
5.2. NETWORK CONCEPT	
5.3. INTERSECTION DESIGN	8
6. TIME PERIODS	8
7. HORIZON YEARS	
8. EXEMPTION REVIEW	
9. DEVELOPMENT GENERATED TRAVEL DEMAND	
9.1.1. Trip Generation	
10. DEVELOPMENT DESIGN	
10.1. DESIGN FOR SUSTAINABLE MODES	
11. ACCESS INTERSECTIONS DESIGN	
11.1. LOCATION AND DESIGN OF ACCESS	11
12. TRANSIT	11
12.1. ROUTE CAPACITY	11
13. SUMMARY OF IMPROVEMENTS INDICATED AND MODIFICATION OPTIONS	11
List of Figures	
List of Figures	
Figure 1: Local Context	
Figure 2: Proposed Site Plan	
Figure 3: Area Transit NetworkFigure 4: Existing Peak Hour Traffic Volumes (2017 Balanced)	



Figure 5: Confederation Line LR1	(
Figure 6: Projected Site Access Volumes (2018)	
List of Tables	
Table 1: Route 24 Passenger Data – Peak Period Average	4
Table 2: Exemptions Review Summary	8
Table 3: Additional Recommended Exemptions Summary	9
Table 4: 2009 TRANS Trip Generation Rate	9
Table 5: TRANS Vehicle Trip Generation	9
Table 6: Total Site Trip Generation	

List of Appendices

APPENDIX A – Screening Form and Correspondence

APPENDIX B - Intersection Turning Movement Counts

APPENDIX C - Collision Data and Analysis

APPENDIX D - OC Transpo Transit Data



TIA Forecasting and Strategy Report

1. SCREENING FORM

The Screening and Scoping Report was submitted on January 24, 2018 to the City of Ottawa Transportation Project Manager (TPM). The Location and Safety Triggers were met in the screening form and the Screening and Scoping Report and exemptions were prepared within that context.

The report concluded to exempt Module 3.1- Element 3.1.3, Module 3.2, Module 3.3, Module 4.1 – Element 4.1.3, Module 4.2, Module 4.3, Module 4.4 – Elements 4.4.2 and 4.2.3, Module 4.5, Module 4.6 – Element 4.6.1, Module 4.7 – Element 4.7.2, Module 4.8, and Module 4.9. No response has been received from the TPM at the time of the submission of this report.

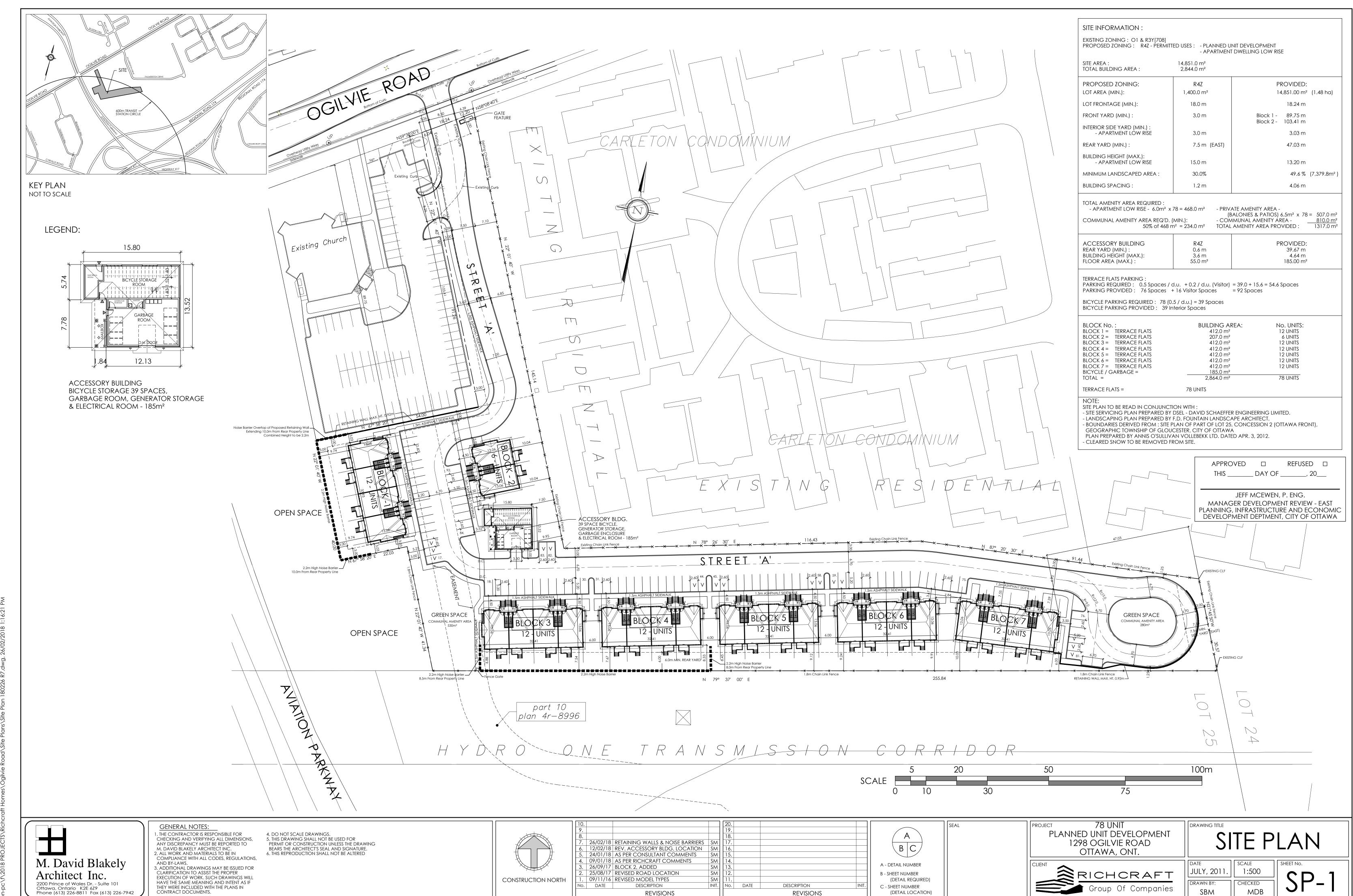
The Screening Form and correspondence is provided in Appendix A.

2. DESCRIPTION OF PROPOSED DEVELOPMENT

From the information provided, it is our understanding that the proponent is proposing to construct a residential development located at 1298 Ogilvie Road. The development will consist of 78 residential units. The site is currently forested. The local context of the site is provided as Figure 1 and the proposed Site Plan is provided as Figure 2. As the site is currently zoned partly as Open Space and partly as Residential, a Zoning By-Law Amendment will need to be completed.



Figure 1: Local Context



\\ Jon-pc\f\2018 PRO JECTS\Richcraft Homes\Oailvie Road\Site Plans\Site Plan 180226 R7.dwa. 26/02/2018

3. EXISTING CONDITIONS

3.1. AREA ROAD NETWORK

Ogilvie Road is an east-west arterial roadway, which extends from the Rockcliffe Parkway in the east to St. Laurent Boulevard in the west and continues as Coventry Road. The cross section is divided with two travel lanes in each direction with bike lanes. The posted speed limit within the study area is 60 km/h.

Aviation Parkway is a north-south federal arterial roadway, which extends from Highway 417 in the south to the Rockcliffe Parkway in the north. The cross section consists of two travel lanes in each direction and is divided by a boulevard of varying width. The posted speed limit within the study area is 60 km/h.

Palmerston Drive is a north-south local roadway extending south of Ogilvie Road. The cross section consists of a single travel lane in each direction. The unposted speed limit assumed to be 50 km/h.

Matheson Road is a north-south collector roadway extending north of Ogilvie Road to Bathgate Drive. The cross section consists of a single travel lane in each direction. The posted speed limit assumed to be 50 km/h

3.2. PEDESTRIAN/CYCLING NETWORK

With respect to pedestrians, sidewalk facilities in the vicinity of the site are provided along both sides of Ogilvie Road, the east side of Palmerston Drive, and both sides of Matheson Road. A multi-use pathway is located along the south side of the site, connecting to the Epiphany Anglican Church and to the Aviation Parkway. The multi-use pathway continues along the west side of the Aviation Parkway, north of Ogilvie Road.

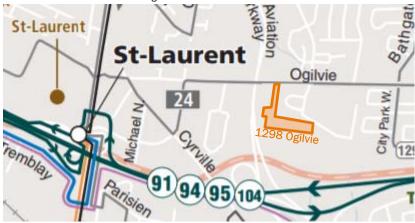
With respect to cyclists, according to the Ottawa Cycling Plan, Ogilvie Road is classified as a "spine" cycling route and has on-street bike lanes in each direction. The remaining cycling facilities are provided along the multi-use pathways. In the ultimate plan, additional multi-use pathways will connect to the Confederation Line corridor and the Cyrville Station on the west side of Aviation Parkway (Phase 2 – 2020-2025).

3.3. TRANSIT NETWORK

Transit service within the vicinity of the site is currently provided by OC Transpo Route #24. Bus stops for this route are located along Ogilvie Road on the far sides of the Aviation Parkway intersection and Palmerston Drive intersection. The nearest eastbound stop is approximately 50m from the proposed site access and the nearest westbound stop is approximately 150m from the proposed site access. These are both adjacent to the Aviation parkway intersection. Route 24 runs all day at approximately 20 to 30-minute intervals.

St Laurent and the Cyrville Station are beyond the typical catchment area for the site, but do provide access to Routes 91, 94, 95 and 104 (St Laurent) and the Confederation Line (Cyrville Station) for rapid transit purposes. The influence zone of the Cyrville Station does cover the proposed site, but the actual walking distance would be greater than 600m until the MUP crossing of the Aviation Parkway is completed along the light rail corridor.

Figure 3: Area Transit Network



Passenger data was acquired from OC Transpo for Route 24 (formerly Route 124 until June 2017), for the AM and PM peak periods. Table 1 summarizes the boarding, alighting and average loads for the two closest stops. Route 24 is typically planned with single 40-ft buses.

Table 1: Route 24 Passenger Data - Peak Period Average

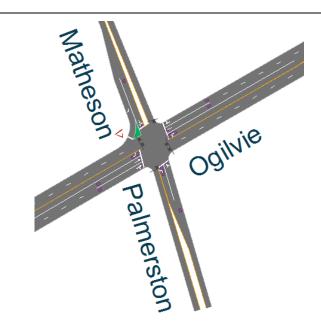
	,	AM Peak (6	-9am)	PM Peak (3-6pm)		
Stop #	Boarding	Alighting Average load at departure		Boarding	Alighting	Average load at departure
8521 (eastbound)	0	0	11	0	1	12
1238 (westbound)	0	1	10	0	0	11

OC Transpo boarding and alighting data is provided in Appendix D

3.4. EXISTING STUDY AREA INTERSECTION

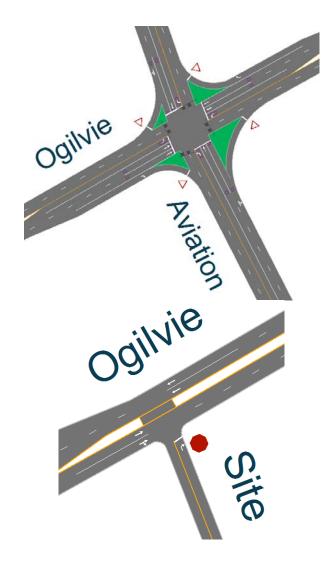
Ogilvie/Palmerston

The Ogilvie/Palmerston intersection is a signalized four-legged intersection. The east and westbound approaches consist of a left turn lane and two through lanes, the southbound approach consists of a shared left-through lane and channelized right turn lane, and the northbound approach consists of a single lane but is wide enough to allow left turn storage and a shared through-right lane. All movements are permitted at this location.



Ogilvie/Aviation

The Ogilvie/Aviation intersection is a signalized fourlegged intersection. The north, south, east and westbound approaches consist of a left turn lane, two through lanes, and a channelized right turn lane. All movements are permitted at this location.

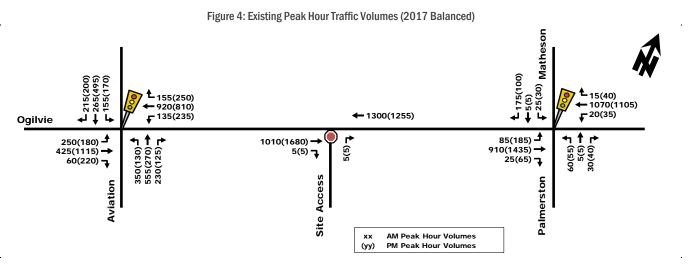


Ogilvie/Epiphany Anglican Church

The Ogilvie/Epiphany Anglican Church Access intersection is a right-in/right-out t-access. The eastbound approach consists of two through lanes and the access is a two-way access. The center median prohibits the crossing of Ogilvie Road.

3.5. EXISTING INTERSECTION VOLUMES

Illustrated as Figure 4, are the most recent weekday morning and afternoon peak hour traffic volumes obtained from the City of Ottawa at the study area intersections. The full traffic counts are provided in Appendix B.



It is noted that the Ogilvie and Palmerston intersection experiences approximately 9 and 25 eastbound u-turn movements during the AM and PM peaks, respectively. The left-turn lane and actuated advance phase provide storage and opportunity for these movements during the peak hours.

3.6. EXISTING ROAD SAFETY CONDITIONS

Collision history for the Ogilvie/Palmerston, Ogilvie/Aviation, and mid-block on Ogilvie Road between Aviation Parkway and Palmerston Drive (2014 to 2016, inclusive) was obtained from the City of Ottawa. Most collisions (83%) involved only property damage, indicating low impact speeds, and 17% involved personal injuries. One fatality was noted at the Ogilvie Road and Aviation Parkway intersection. The primary causes of collisions cited by police include; rear ends (59% or 48 collisions), turning movement (23% or 19 collisions), sideswipe (10% or 8 collisions), angle (6% or 5 collisions), and single vehicle/other (1% or 1 collision).

A standard unit of measure for assessing collisions at an intersection is based on the number collisions per million entering vehicles (MEV). At intersections and road segments within the study area, reported collisions have historically take place at a rate of:

- 1.33 collisions/MEV at the Ogilvie Road and Aviation Parkway intersection.
- 0.10 collisions/MEV along Ogilvie Road between Aviation Parkway and Palmerston Drive.
- 0.30 collisions/MEV at the Ogilvie Road and Palmerston Drive intersection.

Based on the available data, there does not appear to be any prevailing safety issues along Ogilvie Road, east of Aviation Parkway or at the Palmerston Drive intersection. A single u-turn collision was noted at Palmerston, involving a northbound and eastbound vehicle.

The Aviation Parkway intersection is noted to have a high level of collisions (68) during the history review period. Rear end collisions (43) are the primary collision type observed at the intersection. The rear end accidents were broken down based on a direction basis, as a collision diagram would only illustrate this in a similar manner.

Northbound: 10 rear end collisions
Southbound: 10 rear end collisions
Eastbound: 14 rear end collisions

Westbound: 9 rear end collisions

The approaches to the intersection are relatively flat and straight, with approximately 300m or more of clear sight lines in the northbound direction and approximately 260m of clear sight lines in the southbound direction, before the Aviation Parkway curves. Of the 43 collisions, 21 are related to right turning movements, representing almost 50% of the collisions at the intersection. As such, the City may want to review the right-turn channel geometry to improve the angle and pedestrian crossing distances.

The source collision data as provided by the City of Ottawa and related analysis is provided as Appendix C.

4. PLANNED CONDITIONS

4.1. PLANNED STUDY AREA TRANSPORTATION NETWORK CHANGES

A notable transportation network change within the study area is the Phase I construction of the east-west LRT, which is the conversion of the City's existing BRT corridor to LRT between the current Blair transit station and the Tunney's Pasture station which includes a tunnel through the City's Downtown. Currently, this phase of construction is underway and is

expected to be completed by 2019. Phase II of the LRT construction, which will extend the City's LRT further east, west and south, is expected to begin by 2019 and be completed by 2024.

The following Figure 5 illustrates the planned Phases I and II of the future Confederation/Trillium Lines. As mentioned previously, the subject development is located within the 600m radius from the Cyrville Station.



Figure 5: Confederation Line LRT

4.2. OTHER AREA DEVELOPMENT

According to the City's development application search tool, the following developments are planned within the vicinity of the subject site.

1220 Ogilvie Road/1235 Cyrville Road

Richcraft is constructing a development between Ogilvie Road and Cyrville Road with a total of 957 apartment units. Currently, approximately 176 units have been completed. A signalized intersection is identified along Ogilvie Road at Beaulieu Place, approximately 175m west of Aviation Parkway.

1111 Cummings Avenue

An infill development of approximately 83 townhome units is proposed along Cummings Avenue, south of Ogilvie Road. As the site is west of the Aviation Parkway and the low unit count, the development is anticipated to have negligible impacts on the subject study area.

5. STUDY AREA

5.1. Transit

As mentioned previously, transit is served within the area with bus stops for Route #24 located approximately 50m and 150m from the site. In addition, the Cyrville Station is beyond the 600m walking distance for consideration as a TOD site until the MUP crossing of the Aviation Parkway is completed along the light rail line.

5.2. NETWORK CONCEPT

No screenline is present in close proximity to the subject site. Given the low unit count for the development, is unlikely the impact the closest screenlines (SL14, SL 16, SL32, SL33, and SL 54).

5.3. INTERSECTION DESIGN

The study area consists of the proposed right-in/right-out private approach to the site reducing the requirements for analysis and design of study area intersections in the Forecasting Report and Strategy Report.

6. TIME PERIODS

Given the majority of trips expected to be generated by this development will be residential trips, the time periods to be assessed are the weekday morning and afternoon commuter peak hours.

7. HORIZON YEARS

The expected build-out date for the proposed development is assumed to be 2019. Depending on the growth rate of the study area, the horizon year 2024 will be assessed for 5-years beyond site build out.

8. EXEMPTION REVIEW

Based on the City's TIA guidelines and the subject site, the following modules/elements of the TIA process, summarized in Table 2, are recommended to be exempt in the subsequent steps of the TIA process:

Table 2: Exemptions Review Summary

Module	Element	Exemption Consideration
4.1 Development Design	4.1.3 New Street Networks	Not required for applications involving site plans.
4.2 Parking	4.2.2 Spillover Parking	The site's residential parking rate is noted to meet the City's minimum By-Law for residential parking (55 stalls). As such, parking is not expected to spill out of the site.
4.5 Transportation Demand Management	All elements	Residential development with less than 60 auto trips.
4.6 Neighbourhood traffic Management	4.6.1 Adjacent Neighbourhoods	Residential development will not connect to any adjacent developments.
4.8 Review of Network Concept	All elements	This development is not expected to generate 200-person trips more than the permitted zoning for the site.

In addition to the above recommendations of the Exemptions Review, the following exemptions are also proposed for both Step 3 – Forecasting and Step 4 – Analysis, and are summarized in Table 3.

Table 3: Additional Recommended Exemptions Summary

Module	Element	Exemption Consideration
3.1 Development-	3.1.2 Trip Distribution	Minimal auto share anticipated given only 78 residential units on site, and negligible impact anticipated on road network.
generated Travel Demand	3.1.3 Trip Assignment	Minimal auto share anticipated given only 78 residential units on site, and negligible impact anticipated on road network.
3.2 Background Network Travel Demand	All Elements	Minimal auto share anticipated given only 78 residential units on site, and negligible impact anticipated on road network.
3.3 Demand Rationalization	All Elements	Minimal auto share anticipated given only 78 residential units on site, and negligible impact anticipated on road network.
4.2 Parking	4.2.1 Parking Supply	Auto and Bicycle parking requirements have been met.
4.3 Boundary Street Design	All Elements	Frontage is restricted to the site access which will operate as a private approach. No street design required.
44 Access	4.4.2 Intersection Control	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.
Intersection Design	4.4.3 Intersection Design	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.
4.7 Transit	4.7.2 Transit Priority	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.
4.9 Intersection Design	All Elements	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.

9. DEVELOPMENT GENERATED TRAVEL DEMAND

9.1. TRIP GENERATION AND MODE SHARES

9.1.1. TRIP GENERATION

Appropriate trip generation rate for the proposed development consisting of 124 residential units was obtained from the City's 2009 TRANS Trip Generation – Residential Trip Rates. These rates are summarized in Table 4.

Table 4: 2009 TRANS Trip Generation Rate

Land Use	Trip Rates			
Land USe	AM Peak	PM Peak		
Townhomes	T = 0.50(du)	T = 0.51(du)		
Notes: T = Average Vehicle Trip Ends du = Dwelling units				

Using the TRANS Trip Generation rate, the total amount of vehicle trips generated by the proposed townhome units were projected and the results are summarized in Table 5.

Table 5: TRANS Vehicle Trip Generation

1 11	2.1.0		AM Peak (ve		h/h)	/h) PM Peak (veh		h/h)
Land Use	Data Source	Units	In	Out	Total	In	Out	Total
			22%	78%		62%	38%	
Townhomes	TRANS	78 du	8	31	39	24	16	40
		Total	8	31	39	24	16	40

As shown in Table 5, a total of 39 and 40 veh/h are projected to travel to/from the proposed development during the weekday morning and afternoon peak hours.

9.1.2. MODE SHARES

Using the TRANS Auto Trips projected in Table 5 and the modal share percentages from the 2011 NCR Household Origin – Destination Survey and Table 3.13 of the TRANS Trip Generation Study, the modal share for the proposed development are summarized in Table 6.

Travel Mode	AM Mode Share	AM Peak (persons/h)		PM Mode Share	PM Peak (persons/h)			
Traver Mode	Alvi Mode Share	In	Out	Total	Pivi ivioue Stiare	In	Out	Total
Auto Driver	50%	8	31	39	50%	24	16	40
Auto Passenger	10%	2	6	8	15%	8	4	12
Transit	25%	4	16	20	20%	9	7	16
Non-motorized	15%	2	10	12	15%	7	5	12
Total People Trips	100%	16	63	78	100%	48	32	80
То	tal 'New' Auto Trips	8	31	39		24	16	40

Table 6: Total Site Trip Generation

As shown in Table 6, based on the TRANS Trip Generation method, the proposed site is projected to generate approximately 78 to 80 two-way person-trips per hour during the weekday peak hours. The increase in two-way transit trips is estimated to be 16 to 20 persons per hour, and the increase in bike/walk trips is approximately 12 persons per hour.

Figure 6: Projected Site Access Volumes (2018)

10. DEVELOPMENT DESIGN

10.1. DESIGN FOR SUSTAINABLE MODES

The minimum parking requirements for this development within 600m of an LRT station are 39 car spaces (0.5 spaces per unit) for the residents, 16 car spaces (0.2 spaces per unit) for visitor parking, and 39 bike spaces (0.5 spaces per unit) for bicycles. The site provides 76 residents and 16 visitor car parking spaces and 39 interior bike parking spaces.

An asphalt pathway extends along the frontage of the residential units, connecting to Ogilvie Road and the multi-use pathway south of the site.

The furthest units (Block 7) within the site are approximately 440m and 575m from the nearest transit stops, in the westbound and eastbound directions respectively.

10.2. CIRCULATION AND ACCESS

No issues were noted for emergency vehicles (HSU turning templates) for accessing or circulating the site.

11.ACCESS INTERSECTIONS DESIGN

11.1. LOCATION AND DESIGN OF ACCESS

The access will be in the same location as the existing Epiphany Anglican Church access, approximately 90m from the crosswalk at the Ogilvie at Aviation intersection. The proposed 8.5m pavement width is sufficient for the access to Ogilvie Road.

12.TRANSIT

12.1. ROUTE CAPACITY

As outlined within Section 9.1.2, the forecasted 'new' two-way transit trips are estimated to be 20 trips (4 in, 16 out) during the AM peak and 16 trips (9 in, 7 out) during the PM peak. During the AM peak, the outbound trips represent approximately 29% of a single bus (55 passengers), approximately 21% of an articulated bus (75 passengers), or approximately 18% of a double decker bus (90 passengers).

The average load for transit vehicles is typically 10-12 passengers during the AM and PM peak periods, and as such, the additional forecasted transit trips can be accommodated on the existing Route 24 service.

13. SUMMARY OF IMPROVEMENTS INDICATED AND MODIFICATION OPTIONS

Based on the results summarized herein the following conclusions are offered:

- The proposed site will consist of 78 residential units and share an access with the Epiphany Anglican Church on Ogilvie Road;
- The access is located approximately 110m east of the Ogilvie Road and Aviation Parkway intersection. The access will
 operate as a right-on/right-out access;
- In total, the development is anticipated to generate approximately 80 two-way person trips during both peak hours, split into the following modal shares:
 - 39 auto trips (8 in, 31 out) during the AM peak and 40 auto trips (24 in, 16 out) during the PM peak;
 - 20 transit trips (4 in, 16 out) during the AM peak and 16 transit trips (9 in, 7 out) during the PM peak; and
 - 12 active mode trips (2 in, 10 out) during the AM peak and 12 active mode trips (7 in, 5 out) during the PM peak.
- No capacity analysis was required for the TIA, as the trip generate trigger was not met;
- Existing capacity exists on the current transit service in the area (Route 24) to accommodate the forecasted transit trips:
- A total of 92 parking spaces will be provided within the development, 76 for residents and 16 for visitor parking. This
 amount of parking meets the City's Zoning Bylaw minimum and maximum parking requirements;
- A total of 39 interior bicycle parking spaces will be provide and meets the City's Zoning By-Law requirements; and,

- The Ogilvie Road and Aviation Parkway intersection was noted to experience a significant number of rear end collisions, with approximately 50% of these involving right-turning vehicles;
- A single u-turn collision was noted at the Ogilvie Road and Palmerston Drive intersection;
- No issues were noted within the site or at the access for emergency vehicle turning movements; and
- No local improvements are required for the proposed access configuration as it will operate within the Private Approach By-Law.

Based on the foregoing conclusions, this report satisfies the TIA requirements for Richcraft's 1298 Ogilvie Road development and is recommended to proceed from a transportation perspective.

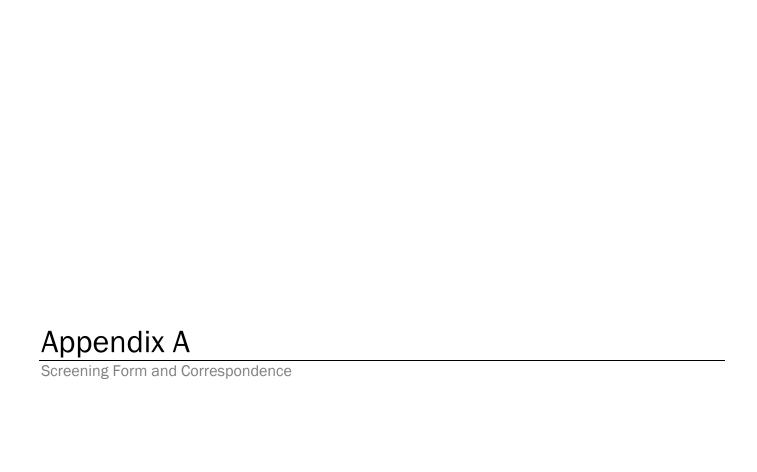
Prepared By:

Andrew Harte, P.L.g. Senior Transportation Engineer

100149314

Reviewed By:

Christopher Gordon, P.Eng. Senior Project Manager





City of Ottawa 2017 TIA Guidelines Date 1/16/2018 **TIA Screening Form** Project Richcraft - 1298 Ogilvie Rd

Project Number 476609

Results of Screening	Yes/No	
Development Satisfies the Trip Generation Trigger	No	
Development Satisfies the Location Trigger	Yes	
Development Satisfies the Safety Trigger	Yes	

Module 1.1 - Description of Proposed Development				
Municipal Address	1298 Ogilvie Road			
Description of location	Parcel adjacant to Epiphany Anglican Church, part O1, part R3Y[708]			
Land Use	Proposed residential			
Development Size	78 Townhomes			
Number of Accesses and Locations	Existing Church access to Ogilvie Road			
Development Phasing	Single Phase			
Buildout Year	2019			
Sketch Plan / Site Plan	See attached			

Module 1.2 - Trip Generation Trigger		
Land Use Type	Townhomes or Apartments	
Development Size	78	Units
Trip Generation Trigger Met?	No	

Module 1.3 - Location Triggers	
Development Proposes a new driveway to a boundary street	
that is designated as part of the City's Transit Priority, Rapid	Yes
Transit, or Spine Bicycle Networks (See Sheet 3)	
Development is in a Design Priority Area (DPA) or Transit-	Yes
oriented Development (TOD) zone. (See Sheet 3)	ies
Location Trigger Met?	Yes

Module 1.4 - Safety Triggers			
Posted Speed Limit on any boundary road	<80	km/h	
Horizontal / Vertical Curvature on a boundary street limits sight lines at a proposed driveway	No		
A proposed driveway is within the area of influence of an adjacent traffic signal or roundabout (i.e. within 300 m of intersection in rural conditions, or within 150 m of intersection in urban/ suburban conditions) or within auxiliary lanes of an intersection;	Yes		
A proposed driveway makes use of an existing median break that serves an existing site	No		
There is a documented history of traffic operations or safety concerns on the boundary streets within 500 m of the development	No		
The development includes a drive-thru facility	No		
Safety Trigger Met?	Yes		



Harte, Andrew

From: Harte, Andrew

Sent: Wednesday, January 24, 2018 1:53 PM

To: 'Yousfani, Asad'

Subject: FW: Richcraft 12980 Ogilvie Road - TIA Screening and Scoping Report Submission

Attachments: 476609.1298 Ogilvie.Scoping.01232018.pdf

Asad.

Just in case Steve forgot the attachment.

Regards,

Andrew Harte, P.Eng.

Senior Transportation Engineer 1223 Michael Street North, Suite 100, Ottawa, Ontario, K1J 7T2 andrew.harte@parsons.com - P: +1 613.691.1527

PARSONS - Envision More

www.parsons.com | LinkedIn | Twitter | Facebook



From: Harte, Andrew

Sent: Wednesday, January 24, 2018 1:38 PM **To:** Dubyk, Wally <Wally.Dubyk@ottawa.ca>

Cc: Gordon, Christopher < Christopher.Gordon@parsons.com>; 'steve.belan@ottawa.ca' < steve.belan@ottawa.ca';

Fairouz Wahab <FWahab@richcraft.com>; 'tremblay@fotenn.com' <tremblay@fotenn.com>

Subject: Richcraft 12980 Ogilvie Road - TIA Screening and Scoping Report Submission

Wally,

Please find attached the Screening and Scoping Report for Richcraft's 1298 Ogilvie Road development. If you require any physical copies, please let me know how many and I will send them in.

If you have any questions or wish to discuss, feel free to give me a call or let me know a good time to call you. If you can also advise on the timeline for review / comments, I would greatly appreciate it so that I can move onto the Forecasting Report asap.

Regards,

Andrew Harte, P.Eng.

Senior Transportation Engineer 1223 Michael Street North, Suite 100, Ottawa, Ontario, K1J 7T2 andrew.harte@parsons.com - P: +1 613.691.1527

PARSONS - Envision More

www.parsons.com | LinkedIn | Twitter | Facebook





Turning Movement Count - Full Study Diagram

AVIATION PKWY @ OGILVIE RD

34325

WO#:

Survey Date: 28-Jan-15

\	*	1287	5557 8069	13	7654		Tota
≪t	€↓	1277 10	5429 128	13 0	7498 156	Cars Heavy Vehicles	
4 0609	40	1	1 4	U	Ł	927	838
PKWY ↓ 10055	0 00	ב			-	2374	4655
AVIATION PKWY The state of the	1099 6 1093	t			t	1288	1321
4965	2514 29 2485	-			G	7 0	9262
	1352 7	1	U	ካ [t r	4534	4607
	Cars		168 8074	15 1399	139 5465	₹	***
		- L	12	1414	5604 874	S 1	,
		OGILVIE RD	B545	16146	7904	*	

Comments

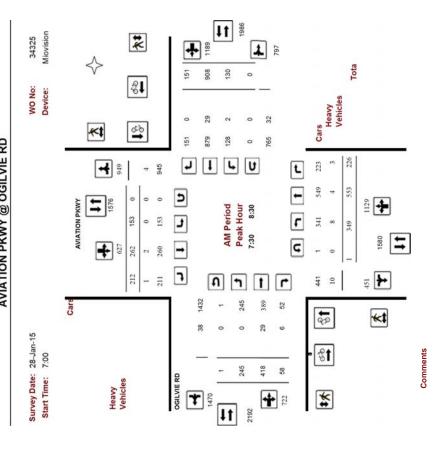
2015-Jul-06

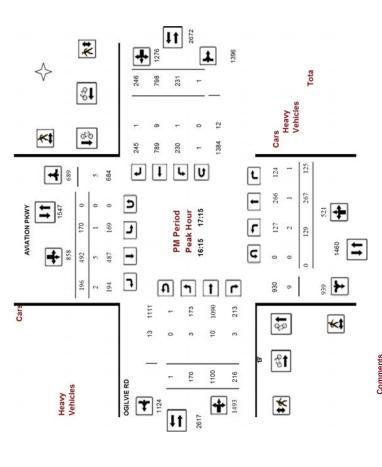
Page 1 of 1

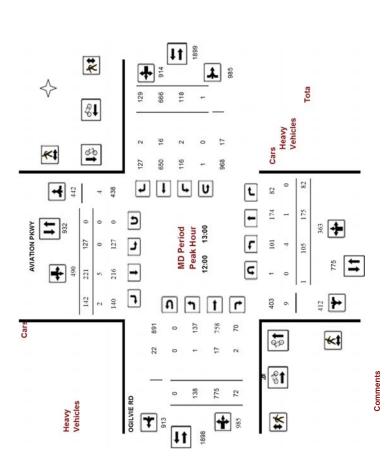


Public Works - Traffic Services

Turning Movement Count - Peak Hour Diagram AVIATION PKWY @ OGILVIE RD







2015-Jul-06

Page 1 of 1



Work Order 34325

Turning Movement Count - Full Study Summary Report

	AVIATION PKWY @ OGILVIE RD	AVIATION PKWY @ OGILVIE RD	@ O	ILVIE RD		
Survey Date: 28-Jan-15	28-Jan-15	Tot	al Observ	Total Observed U-Turns		AADT Factor
		Northbound:	7	Southbound:	0	1.00
		Eastbound: 12	12	Westbound: 13	13	
		Full Study	tudy			

		Grand Total	3297	3287	2193	2668	2646	3811	4139	3520	25561	35523		35523		46535
		STR	1699	1723	1351	1826	1869	2448	2721	2311	15948	22164		22164		29034
		MB TO	1053	1040	734	606	854	1206	1255	1005	8056	11196		11196		14666
	ъ	RT	142	131	116	115	120	228	255	180	1287	1788		1788		2342
	Westbound	ST	800	773	528	699	626	738	761	662	5557	7724	1.39	7724	1.00	10118
2	We	5	111	136	06	125	108	240	239	163	1212	1684	7	1684 7724	7	2206
OGILVIE RD		15 EB	646	683	617	917	1015	1242	1466	1306	7892	10968		10968		14368
90		RI	48	53	43	99	92	182	221	169	874	1214		1214	ï.	1590
	Eastbound	ST	351	400	431	704	111	904	1073	8	5604	7789	actor.	7789	DT fact	10203
	East	5	247	230	143	147	146	156	172	173	1414	1965	nsion fi	1965	the AA	2574
		STR	1598	1564	842	842	111	1363	1418	1209	9613	13359	ate expa	6900 13359	tals by	17500
		SB TOT	542	298	403	491	444	862	895	730	4965	0069	ppropri	0069	12 hr. to	9039
	_	RT	167	206	115	155	116	203	202	188	1352	1879	by the a	1879	valent	2461
	Southbound	ST	236	238	192	221	200	514	515	398	2514	3494	totals l	3494	he Equi	4577
W	Ž.	5	139	154	æ	115	128	145	178	144	1099	1527	ying the	1527	plying t	2000
à NO O		NB TOT	1056	996	439	351	333	201	523	479	4648	6429	multipl	6459	y multi	8461
AVIAT	ы	RT	202	163	06	89	06	101	130	94	938	1303	ated by	1303	ulated b	1706
	Northbound	ST	299	475	216	165	147	285	268	266	2389	3320	re calcul	3320	are calc	4349
	z	5	287	328	133	118	96	115	125	119	1321	1836	alues a	1836	/olumes	2405
		Period	00:8 00	00:6 00	00:01 0	11:30 12:30	12:30 13:30	15:00 16:00	16:00 17:00	17:00 18:00	Total	Equ 12Hr	Note: These values are calculated by multiplying the totals by the appropriate expansion factor.	Avg 12Hr	Note: These volumes are calculated by multiplying the Equivalent 12 hr. totals by the AADT factor.	Avg 24Hr
		- 1	7:00	8:00	00%	Ξ	15:	15:	16:	173		-	ž	-	Š	_

Note: These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor. 1.31

Comments:
Note: U-Turns are included in Totals.
2015-Jul-06

Page 1 of 1



Public Works - Traffic Services

34325

W.O.

Turning Movement Count - 15 Minute Summary Report
AVIATION PKWY @ OGILVIE RD

Survey Date:	Date:			. 4	28-Ja	28-Jan-15					Total	Obser	ved L	Total Observed U-Turns	s					
									z	Northbound:		7	ŏ	Southbound:	-	0				
									ш	Eastbound:		12	3	Westbound:		13				
			Ş	AVIATION PKWY	N P	¥							190	OGILVIERD	۵					
		North	Northbound		2	Soul	Southbound	_	6	5	Ea	Eastbound			š	Westbound	_	3	Ę	
Time Period	듸	. ST		RT T	TOT	5	ST	RT	νĒ	TOT	H	ST	R	10T	5	ST	R	۲٥ ×	TOT	Total
7:15	5 44	66		26 1	169	36	45	36	117	286	49	48	10	107	23	136	33	192	299	585
7:15 7:30	69 0	4		46 2	259	59	62	33	124	383	7	82	80	161	27	186	29	242	403	786
7:30 7:45	5 84	155		63 3	302	39	20	48	157	459	61	113	17	191	34	226	39	299	490	949
7:45 8:00	0 00		9 691	67 3	326	35	59	20	4	470	99	108	13	187	27	252	4	320	202	776
8:00 8:15	5 83	103		56 2	242	43	62	45	150	392	24	108	19	184	44	240	37	321	202	897
8:15 8:30	0 92	-	26	40 2	259	36	7.1	69	176	435	61	88	6	160	25	190	34	249	409	844
8:30 8:45	5 105	_	24 3	35 2	265	36	45	48	129	394	64	86	4	171	30	176	38	244	421	815
8:45 9:00	0 48	_	22	32 2	205	39	09	44	143	348	48	105	Ξ	165	37	167	22	226	391	739
9:00 9:15	5 46	59	4 2	3 1	133	36	51	24	£	244	46	66	80	153	23	134	32	190	343	287
9:15 9:30	0 26	99		26 1	118	4	44	30	88	206	37	102	=======================================	150	24	154	25	205	355	561
9:30 9:45	5 32	4		50	96	21	20	34	105	201	32	96	4	143	24	115	35	171	320	521
9:45 10:00	00 29	45	2	-	92	25	47	27	66	191	28	134	10	173	19	125	24	170	343	534
11:30 11:45	15 35	46		20 1	5	32	22	40	129	230	45	161	13	219	30	166	24	220	439	699
11:45 12:00	30	33	2	20	82	56	09	44	130	212	32	167	21	221	32	165	27	226	447	629
12:00 12:15	15 28	40	1	2	81	28	53	30	£	192	46	199	16	261	36	161	28	225	486	678
12:15 12:30	30 25	4	_	9	88	59	51	4	121	209	24	177	16	217	27	171	36	241	458	299
12:30 12:45	15 21	4	3	34	96	31	20	38	139	235	43	209	19	271	20	171	36	227	498	733
12:45 13:00	31	47		50	86	39	47	33	119	217	25	190	21	236	35	157	29	221	457	674
13:00 13:15	15 25	**	. 1	6	11	25	38	27	90	167	37	196	25	258	36	137	24	197	455	622
13:15 13:30	90 19	28	. 1	7	62	33	45	18	96	158	4	182	27	251	17	161	31	209	460	618
15:00 15:15	15 32	81		30 1	143	32	110	52	194	337	33	208	32	274	09	178	74	312	586	923
15:15 15:30	90 24	- 28		22 1	104	35	120	49	204	308	40	213	49	302	53	215	28	326	628	936
15:30 15:45	15 36	92		16 1	137	33	145	45	223	360	44	224	51	319	20	154	47	271	290	950
15:45 16:00	00 23	19		33 1	118	45	139	22	241	359	39	259	20	349	22	191	49	297	646	1005
16:00 16:15	15 33	82		24 1	139	47	133	09	240	379	38	249	69	347	22	140	99	251	298	776
16:15 16:30	30 29	89	3	7	134	39	130	46	215	349	46	275	62	383	61	215	62	338	721	1070
16:30 16:45	15 23	89	3	4	125	54	153	12	258	383	32	268	44	348	63	192	81	336	684	1067
16:45 17:00	00 40	92		35 1	125	38	66	45	182	307	23	281	99	390	09	214	99	331	721	1028
17:00 17:15	15 37	. 81	-	9	137	39	110	54	203	340	45	276	54	372	47	171	47	271	643	983
17:15 17:30	35	92		30 1	121	39	116	44	199	320	40	253	44	338	20	182	62	294	632	952
17:30 17:45	15 24	1		24 1	125	36	104	42	182	307	49	217	33	299	37	146	38	221	520	827
17:45 18:00	0 23	25		21	96	30	89	48	146	242	42	218	38	298	29	157	33	220	518	760
	4004	1	8	١	١	8	, , , ,	40.00	2007	0000	****	4000	0.14	, 00	3		100	,	04047	0440



W.O. 34325

Turning Movement Count - Heavy Vehicle Report

AVIATION PKWY @ OGILVIE RD

28-Jan-15

Survey Date:

			¥	ATION	AVIATION PKWY	_							OGILV	OGILVIE RD						
		Northbound	puno			Southbound	puno			l	Eastbound	puno		ı	Westbound	pun				
Time	Time Period	H	ST	RT	N TOT	Ь	ST	RT	S	STR	5	ST	RT	T0T	h	ST	RT	TOT	STR	Grand Total
7:00	8:00	6	4	4	17	0	3	0	3	20	0	22	9	27	3	20	+	24	51	11
8:00	9:00	7	6	-	Έ	0	2	-	8	4	2	21	4	27	0	28	0	28	22	69
9:00	10:00	9	-	-	80	3	-	-	2	13	4	38	0	30	89	17	2	22	22	70
11:30	12:30	2	6	-	9	0	8	-	4	10	2	12	6	17	4	15	2	73	38	48
12:30	13:30	2	0	2	4	-	4	-	9	10	-	23	0	23	4	16	-	73	44	54
15:00	16:00	2	-	-	7	-	е	0	4	Ξ	-	18	2	21	4	16	2	22	43	54
16:00	17:00	2	2	-	2	-	9	0	7	12	4	10	3	17	-	=	2	4	31	43
17:00	18:00	0	-	0	-	0	7	3	10	Ξ	-	8	-	10	2	2	0	7	17	28
Total		33	15	11	69	9	29	7	42	101	15	139	18	172	26	128	10	164	336	437
Lanner	Banti Wahisha asa tahida hatina ana sasa asla utih fata as masa uhasla sa hutina nto as masa sasa sa tahida induda mast OC Tennesa, sahad	010 010	hiolog	Odition	one need	v olao -	nith form	ou ao.	od uho	de or		0.00	0000	00 000	L	coloider	in a land	4000	E	

Page 1 of 1

Printed on: 2015-Jul-06



Ottawa Turning Movement Count - Cyclist Volume Report

Work Order 34325

Count Dat	Count Date: 28-Jan-15					Start Time: 7:00	7:00
		AVIATION PKWY			OGILVIE RD		
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
7:00 8:00	0	-	-	0	0	0	-
8:00 9:00	0	0	0	8	0	8	3
9:00 10:00	0	0	0	-	0	-	-
11:30 12:30	0	0	0	0	0	0	0
12:30 13:30	0	0	0	0	-	-	-
15:00 16:00	0	0	0	0	-	-	-
16:00 17:00	0	0	0	0	0	0	0
17:00 18:00	0	0	0	-	2	8	3
Total	0	+	1	2	4	6	10

Page 1 of 1 Note: These volumes consists of bicycles only (no mopeds or motorcycles) and ARENOT included in the Turning Movement Count Summary. 2015-Jul-06



Work Order 34325

Turning Movement Count - Pedestrian Volume Report

							000
unt Dai	Count Date: 28-Jan-15					Start Time:	7:00
Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
7:00 7:15	٦	2	3	+	0	1	4
7:15 7:30	-	-	2	-	0	-	8
	-	2	e	-	0	-	4
7:45 8:00	-	-	7	-	0	-	က
	4	9	10	4	0	4	14
8:00 8:15	0	2	2	0	0	0	2
	2	0	7	-	0	-	e
	-	-	2	0	0	0	2
8:45 9:00	-	-	2	0	0	0	2
8:00 9:00	4	4	80	1	0	1	6
9:00 9:15	-	-	2	0	0	0	2
9:15 9:30	0	-	-	0	0	0	-
	0	-	_	-	0	_	2
	0	-	-	0	0	0	-
9:00 10:00	+	4	2	1	0	1	9
11:30 11:45	1	3	4	0	0	0	4
	0	-	-	-	0	-	2
		63		-	0	_	6
	7	-	. 00	0	0	0	. 00
11:30 12:30	13	8	21	2	0	2	23
12:30 12:45	2	0	2	0	0	0	2
		2	9	0	e	e	6
	-	0	-	0	0	0	-
13:15 13:30	2	0	2	2	0	2	7
12:30 13:30	15	2	17	2	3	2	22
15:00 15:15	0	2	2	0	-	1	3
15:15 15:30		3	9	-	2	3	6
15:30 15:45	-	e	4	0	0	0	4
	8	-	4	-	2	က	7
15:00 16:00	7	6	16	2	2	7	23
16:00 16:15	3	1	4	+	-	2	9
16:15 16:30		0	22	0	-	-	9
16:30 16:45	4	-	10	0	0	0	2
16:45 17:00	2	-	9	-	0	-	7
		3	20	2	2	4	24
17:00 17:15	8	2	80	2	0	2	10
		0	-	0	0	0	-
	2	-	6	-	2	6	9
		-	e	0	-	-	4
17:00 18:00	α	7	45	c	c		100
		_	2	2	0	٥	.7

Comment: 2015-Jul-06

Page 1 of 1



Transportation Services - Traffic Services

Turning Movement Count - Full Study Diagram

OGILVIE RD @ MATHESON RD/PALMERSTON DR

Survey Date: Tuesday, May 09, 2017

Miovision

Device:

37015

WO#:

11 16131 **\$**22 7528 **\$** W < 189 6883 189 267 **€**¶¤ 130 **ॐ ₹**‡ Cars 8402 6753 27 201 T t 217 U 4 MATHESON RD/PALMERSTON DR <u>ح</u> د 9 0 0 **+** + 222 Ł 319 322 178 168 <u>_</u> 1045 1102 0 18 3 ٦ **+** 906 16 470 488 8 4 **1** 7977 Cars **← Q**•**p *★\$** Heavy Vehicles 174 **\$** Total 7941 281 911 OGILVIE RD **₩** 99

Comments

Page 1 of 1

2018-Jan-16

2018-Jan-16

Page 1 of 1



Transportation Services - Traffic Services

Work Order

Turning Movement Count - Full Study Summary Report

	OGILVIE RD @ MATHESON RD/PALMERSTON DR	ATHESON	RD/PALN	ERSTOR	I DR
Survey Date:	Survey Date: Tuesday, May 09, 2017	Total	Total Observed U-Turns	ms	AADT Factor
		Northbound: 0	Southbound:	0 :pui	06.
		Eastbound: 43		Westbound: 267	
		Full Study	ndy		

Northbound Southbound Sou		Σ	IATHE	SON	RD/P/	MATHESON RD/PALMERSTON DR	STON	I DR			,		O	OGILVIE RD	2 2					
Particular Li		Z	lorthbo	punc		S	outhb	punc				Eastbo	pund			Westbound	pund			
0.70 0 08.00 0 54	Period	П	ST	RT	NB TOT		ST	RT	SB TOT	STR TOT	П	ST	RT	EB TOT	LT	ST	RT	WB	STR TOT	Grand Total
08.00 09.00 05.01 05.01 05.01 05.01 05.01 05.01 05.01 05.01 05.00 09.00	07:00 08:00	54	4	24	82	22	3	175	200	282	99	828	21	914	14	863	15	892	1806	2088
11.20 12.5	00:60 00:80	23	0	56	79	56	-	154	181	260	73	873	21	196	15	1015	14	1044	2011	2271
1.30 1.230 23 2 2 2 2 2 3 2 3 2 3 3	09:00 10:00	78	-	12	41	23	2	115	140	181	99	673	18	756	Ξ	929	21	288	1344	1525
12.30 13.30 13.6 1 1 12 14 15 14 15 15 15 15 15	11:30 12:30	32	0	70	52	19	-	79	66	151	118	904	23	1045	91	718	19	753	1798	1949
15.00 15.0	12:30 13:30	36	-	22	29	14	2	92	108	167	82	1961	30	1073	16	747	21	784	1857	2024
15.00 17.00 5.2 4 5.0 5.2 5.0 5.	15:00 16:00	23	2	31	29	19	es	101	123	179	164	1162	38	1364	30	994	78	1052	2416	2595
1.00 18.00 44 6 43 93 95 26 94 122 125 155 153 151 95 153 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	16:00 17:00	52	4	39	95	53	4	96	129	224	181	1419	19	1661	33	1094	38	1165	2826	3050
National 322 18 217 557 188 18 606 1102 1659 911 941 913	17:00 18:00	44	9	43	93	56	2	94	122	215	163	1121	69	1353	54	968	33	983	2336	2551
1 1 1 1 2 2 2 3 2 3 3 3 3 3	Sub Total	322	18	217	557	178	18	906	1102	1659	911	7941	281	9133	189	6883	189	7261	16394	18053
CD 12Hr 448 25 30 774 37 17 27	U Turns				0				0	0				43				267	310	310
EQ 12Hr 448 25 30 774 47 27 1259 1559 1520 1266 11266 11266 11268 1368 391 12753 Note: These values are calculated by multiplying the totals by the appropriate expansion factor. 40 23 23 133 1379 2076 1140 9934 32 14779 Note: These volumes are calculated by multiplying the Equivalent 12 hr. totals by the AADT factor. 40 57 23 1485 1485 1493 1804 481 1808 1493 18014 461 1808	Total	322	18	217	227	178	18	906	1102	1659	911	7941	281	9176	189	6883	189	7528	16704	18363
AVG 24Hr 403 23 271 697 223 23 1133 1379 2076 1140 9934 352 11479 Note: These volumes are calculated by multiplying the Equivalent 12 hr. totals by the AADT factor. AVG 24Hr 528 29 356 913 292 29 1485 1806 2719 1493 13014 461 15038	EQ 12Hr Note: These v	448 ralues an	25 e calcul	302 ated by	774 · multiply	247 ying the	25 totals by	1259 y the ap	1532 propriate	2306 expans	1266 sion fact	11038 tor.	391		263	7926	263	10464	23219	25525
AVG 24Hr 528 29 356 913 292 29 1485 1806 2719 1493 13014 461 15038	AVG 12Hr Note: These v	403 volumes a	23 are calc	271 ulated I	697 by multi _i	223 plying th	23 e Equiv	1133 alent 12	1379 ? hr. total	2076 s by the	1140 AADT	9934 factor.	352		236	8611	236	9418	20897	22973
	AVG 24Hr	528	29	356	913	292	29		1806	2719		13014	461	15038	310	11280	310	12337	27375	30094
Note: These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor.	Note: These	volumes ;	are calc	ulated	by multi	plying th	e Avera	ige Daily	v 12 hr. t	otals by	12 to 2	4 expans	sion fac		1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.



Transportation Services - Traffic Services w.o.

37015

Turning Movement Count - 15 Minute Summary Report OGILVIE RD @ MATHESON RD/PALMERSTON DR

									žШ	Northbound: Eastbound:		0 43	ഗ് ≤	Southbound: Westbound:		0				
	Ź	¥ H	MATHESON RD/PALMERSTON DR	RD/R	ALN	IERS	NOT	R				2	9	OGILVIE RD		ì				
		North	Northbound			Sou	Southbound	Б			щ	Eastbound	_		š	Westbound	-			
Time Period	eriod LT		ST	R T	zβ		ST	R	s To	STR TOT	5	ST	R	≖ ₽	5	ST	R	×₽	STR	Grand Total
00:20		13	0	2	18	9	0	33	39	22	7	173	2	185	2	178	-	182	367	424
07:15 (07:30 11	<u></u>	2	(0	19	2	-	48	54	23	16	207	œ	231	2	199	9	211	442	515
02:20	07:45 1:	2	1	(0	20	9	2	49	22	1	19	227	4	251	2	229	8	240	491	268
07:45 (08:00 1	7	-1	_	25	2	0	45	20	75	23	221	4	249	2	257	2	273	522	265
08:00	08:15 1:	13	3 0	00	72	=	0	44	22	9/	16	238	7	261	9	286	0	295	929	632
08:15 (08:30 1	4	0	ις.	19	က	0	33	36	22	22	212	9	241	က	284	9	295	536	591
08:30	08:45 1	2	9 0	"	72	2	-	47	23	4	5	216	4	234	က	227	9	240	474	248
08:45 (00:60	_	. 0	_	8	7	0	30	37	22	22	207	4	233	က	218	2	226	459	514
00:60	09:15 6	-	0	-	9	7	0	35	45	25	20	192	4	217	4	146	7	163	380	432
09:15	8 06:60	~	0	10	13	9	0	31	37	20	12	169	က	185	7	145	2	155	340	390
06:60	09:45 6	6	0	_	9	က	0	24	27	33	13	168	7	188	-	135	9	148	336	369
09:45	10:00	~	-	~	12	7	7	25	34	46	20	144	4	171	4	130	က	142	313	329
11:30	11:45 9	_	0	_	9	2	0	18	23	33	32	240	~	276	7	151	2	162	438	471
11:45	12:00 4	_	0	6	13	®	0	18	56	33	27	220	~	248	7	171	œ	188	436	475
12:00	12:15 3	_	0	2	&	7	-	21	54	32	59	223	12	266	œ	184	7	210	476	208
12:15	12:30 1	9	0	ις.	7	4	0	22	56	44	27	221	6	259	4	212	7	229	488	535
12:30	12:45 1	10	0	0	20	4	2	23	53	64	15	258	6	285	7	206	9	229	514	263
12:45	13:00 1	0	-	6	4	2	0	22	27	4	15	242	80	266	7	197	9	214	480	521
13:00	13:15 6	9	0	2	80	~	0	25	56	8	27	243	80	278	4	173	7	185	463	497
13:15	13:30 1	10	. 0	~	1	4	0	22	56	43	25	218	2	249	က	171	7	186	435	478
15:00	15:15 6	-	←	2	19	_	7	23	56	45	37	276	9	323	=	244	œ	277	009	645
15:15	15:30 6	-	0	8	6	10	-	20	33	40	32	263	7	304	80	235	80	266	929	610
15:30	15:45 7		. 0	_	4	2	0	34	39	23	4	329	4	391	က	248	9	263	654	707
15:45	16:00 4	_	1	6	4	က	0	24	27	4	51	294	1	357	œ	267	9	293	650	691
16:00	16:15 1	4	-	6	54	œ	7	22	32	26	37	375	10	423	œ	273	9	308	731	787
16:15	16:30 14	4	0	0	54	7	-	25	33	24	51	364	17	436	6	300	12	332	292	825
16:30	16:45 1	_	2 (9	19	9	0	27	33	25	42	328	19	420	œ	268	4	304	724	9//
16:45	17:00 1:	5	←	4	28	80	~	22	33	29	21	321	15	389	œ	253	9	282	671	730
17:00	17:15 5		2 1	4	73	2	-	25	33	25	48	360	21	430	6	260	2	285	715	167
17:15	17:30 14	4	6 0	6	23	4	0	19	23	46	36	264	15	316	21	235	12	286	602	848
17:30	17:45 8		0	4	22	S	0	28	33	22	46	277	17	342	5	234	9	263	909	099
17:45	18:00 17		4	9	27	12	-	22	35	62	33	220	16	272	=	167	9	196	468	230
14101	CCC	,	7	ı	:	1	ç	8	577	20,	;	1		1	1	0000	,			

Page 1 of 1 2018-Jan-16



Transportation Services - Traffic Services

Transportation Services - Traffic Services	Turning Movement Count - AM Period Diagram	JGILVIE RD @ MATHESON RD/PALMERSTON DR	
Ottawa			

37015 Miovision

WO#: Device:

Survey Date: Tuesday, May 09, 2017 Start Time: 07:00

S ← N E	2 4 19 19 19 19 19 19 19 19 19 19 19 19 19	46 4 50 ♣ ♣ 2372 62 2434 2570 2572 62 2434 2570 € 5 40 € 5123 65123 65123 Cars Cars Heavy Vehicles Total
MATHESON RDIPALMERSTON DR TT9 258	6 2 4 0 14 438 4 67 0 244	AM Period AM Period 12 AM Period 12 AM Period 135 94 12 135 16 16 17 17 18 19 19 19 10 10 10 10 10 10 10
Peak Hour 07:30 08:30	Total Heavy Vehicles Cars	OGILVIE RD 3022 3022 3022 5668 203 10 193 5668 2046 60 5 55 55 15 44 3

Comments:

Page 1 of 3 2018-Jan-16



Transportation Services - Traffic Services

Turning Movement Count - MD Period Diagram

OGILVIE RD @ MATHESON RD/PALMERSTON DR

Survey Date: Tuesday, May 09, 2017 WO#: 37015 Start Time: 07:00 Miovision

N ♦ N		39 1 40	
MATHESON RD/PALMERSTON DR 448 241	171 3 33 0 4 0 1 0 5 167 3 32 0 236	MD Perior	
Peak Hour 12:00 13:00	Total Heavy Vehicles Cars	OGILVIE RD 1713 1713 9 0 9 8 1678 3840 1865 2127 53 0 53 7 6 52	47

Page 2 of 3

2018-Jan-16

2018-Jan-16

Page 3 of 3

Ottawa

Transportation Services - Traffic Services

Turning Movement Count - PM Period Diagram

OGILVIE RD @ MATHESON RD/PALMERSTON DR

11 88 Miovision S & S 37015 **₩** % 3355 **\$** 64 44 44 2984 117 155 66 **€**\$ 88 Device: Heavy Vehicles WO#: 62 **ॐ** Cars *****\$ 2946 3982 113 154 96 **4** 619 113 8 611 Ţ 1 L U 108 Ł MATHESON RD/PALMERSTON DR د 12 Ξ **=** PM Period Ł t 119 117 74 5 374 Ç **†** 538 0 0 0 - ∞ J **+** 6 285 294 291 288 1 រា ۲ **1** Survey Date: Tuesday, May 09, 2017 3373 25 504 3651 1 167 Cars **★ ₹**9 Heavy Vehicles Start Time: 07:00 **\$1** % Total 508 3702 168 52 OGILVIE RD **Peak Hour** 16:00 17:00 4403 37 ¥19 11

Comments:

Comments:



Transportation Services - Traffic Services

W.O. 37015

Turning Movement Count - Heavy Vehicle Report

OGILVIE RD @ MATHESON RD/PALMERSTON DR

Tuesday, May 09, 2017

Survey Date:

RD/PALME	THESON RD/PALMER	SON RD/PALMER	RD/PALMER	ALMER		STC	NO DR				1		GILV	OGILVIE RD	400	1	1			
Northbound Southbound Time Period $_{ m LT}$ ST RT $_{ m TOT}$ LT ST RT .	Southbound Southbound RT N LT ST RT	Southbound Southbound RT N LT ST RT	Southbound N TOT LT ST RT	LT ST RT	R	R			s TOT	STR	Eastbound LT ST	ST	R	, = [westbound LT ST	ST	R	≯₽	STR	Grand Total
08:00 0 0 6 6 1 2 1	0 6 6 1	6 6 1	6 1	1	1 2 1	2 1	-		4	10	က	25	-	53	-	56	က	8	59	69
09:00 0 0 3 3 2 0 3	ო	ო	ო	3 2 0 3	2 0 3	0 3	ဗ		2	80	4	30	က	37	က	51	~	52	62	20
10:00 0 0 1 1 1 0 2	0 0 1 1 1 0 2	0 1 1 1 0 2	1 1 1 0 2	1 1 0 2	1 0 2	0 2	7			4	က	31	-	32	_	15	0	16	51	22
12:30 1 0 1 2 1 0 4 5	1 0 1 2 1 0 4 5	0 1 2 1 0 4 5	1 2 1 0 4 5	2 1 0 4 5	1 0 4 5	0 4 5	4	ı,		7	က	21	0	54	0	4	-	15	39	46
13:30 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0	0 0	0		0	-	16	0	11	0	16	0	16	33	33
16:00 2 1 4 7 2 1 4 7	2 1 4 7 2 1 4 7	1 4 7 2 1 4 7	4 7 2 1 4 7	7 2 1 4 7	2 1 4 7	1 4 7	4 7	7		4	ю	24	0	27	4	16	7	23	49	63
17:00 0 0 1 1 3 0 2 5	0 0 1 1 3 0 2 5	0 1 1 3 0 2 5	1 1 3 0 2 5	1 3 0 2 5	3 0 2 5	0 2 5	2 5	9		9	0	17	0	11	0	15	-	16	33	39
17 :00 18:00 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0	0 0	0	_	0		0	~	10	~	12	0	7	0	80	70	70
Sub Total 3 1 16 20 10 3 16 29	1 16 20 10 3 16	20 10 3 16	20 10 3 16	10 3 16	3 16	16		29		49	18	174	9	198	6	130	8	148	346	395
U-Turns (Heavy Vehicles) 0 0	0	0			0	0	0	0		0				0				-	1	1
Total 3 1 16 0 10 3 16 29	1 16 0 10 3 16	0 10 3 16	0 10 3 16	10 3 16	3 16	16		29		49	18	174	9	198	6	130	8	149	347	396

Page 1 of 1

2018-Jan-16



Transportation Services - Traffic Services

Work Order 37015

Turning Movement Count - Pedestrian Volume Report

			OGILVIER	D @ MAT	HESON RD/P	OGILVIE RD @ MATHESON RD/PALMERSTON DR	DR	
Count	Date	Count Date: Tuesday, May 09, 2017	y 09, 2017)			Start Time:	00:20
Time Period		NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00	07:15	1	2	င	2	2	4	7
07:15 0	02:30	2	2	7	0	-	-	œ
07:30	07:45	2	2	7	0	2	2	6
07:45 0	08:00	9	2	œ	0	2	22	13
07:00 0	00:80	17	8	25	2	10	12	37
08:00	08:15	7	4	11	8	2	8	19
08:15 0	08:30	80	က	7	_	2	က	4
08:30	08:45	2	က	2	0	0	0	2
08:45 0	00:60	4	-	ıç,	က	-	4	o
08:00	00:60	21	11	32	7	8	15	47
00:60	09:15	4	1	2	3	Ļ	4	6
	06:30	4	0	4	_	0	-	2
09:30	09:45	0	ဇ	ო	0	0	0	ო
09:45 1	10:00	-	က	4	2	0	2	9
09:00	10:00	6	7	16	9	-	7	23
11:30 1	11:45	4	2	9	0	0	0	9
11:45 1	12:00	7	7	4	0	0	0	41
12:00 1	12:15	80	2	10	_	0	-	7
12:15 1	12:30	80	2	13	0	-	-	4
٠.	12:30	27	16	43	1	1	2	45
12:30 1	12:45	4	2	9	2	0	2	8
	13:00	9	-	7	0	2	2	o
	13:15	80	က	7	2	0	7	13
13:15 1	13:30	2	က	ıç,	2	0	2	7
12:30 1	13:30	20	6	29	9	2	8	37
15:00 1	15:15	ဗ	2	80	ဗ	2	2	13
15:15 1	15:30	6	16	25	2	7	12	37
15:30	15:45	က	9	6	ဇ	2	ıo	4
15:45 1	16:00	7	4	1	4	က	7	18
15:00 1	16:00	22	31	53	15	14	29	82
16:00 1	16:15	2	3	œ	3	-	4	12
16:15 1	16:30	12	6	21	9	4	10	31
	16:45	10	က	13	7	2	6	22
16:45 1	17:00	7	6	16	0	4	4	20
16:00 1	17:00	34	24	58	16	11	27	85
17:00 1	17:15	2	11	16	0	2	2	18
	17:30	9	10	16		2	2	21
	17:45	က	4	7	2	2	7	14
17:45 1	18:00	3	3	9	1	1	2	8
17:00 1	18:00	17	28	45	9	10	16	61
Total		167	134	301	69	25	116	417

Page 1 of 1 2018-Jan-16



Transportation Services - Traffic Services Ottawa Turning Movement Count - Cyclist Volume Report

Work Order

MATHESON RD/P ALMERSTON DR Northbound Southbound Street Total Eastbound 2 1 2 19 2 1 3 13 1 0 0 12 1 0 0 7 1 0 0 14 8 3 11 82			OGILVIE	OGILVIE RD @ MATHESON RD/PALMERSTON DR	ESON RD/P	ALMERSTON	I DR	
MATHESON RD/PALMERSTON DR Northbound Street Total Eastbound 1 1 1 2 1 1 0 0 1 1 0 1 1 0 1 0 0 7 0 0 7 0 0 7 0 0 1 0 0 1 0 0 1 0 0 14 0 0 14	Count Date	a: Tuesday, №	May 09, 2017				Start Time: 07:00	00:20
Northbound Sunthbound Street Total Eastbound 2 1 3 13 2 1 3 13 1 0 1 12 1 0 1 3 1 0 1 3 0 0 0 7 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14 0 0 0 14		MATHESO	N RD/PALMER	STON DR		OGILVIE RD		
1 1 2 19 2 1 1 3 13 1 1 0 0 1 1 3 1 1 0 0 0 7 8 3 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
2 1 3 13 0 0 0 12 1 0 1 3 1 0 1 3 0 0 0 7 8 3 11 82	00:80 00:	-	-	2	19	6	28	30
0 0 0 12 1 0 1 3 1 0 0 1 3 0 0 0 7 8 3 1 4 11	00:60 00:	2	-	ဗ	13	4	17	20
1 0 1 3 1 0 0 1 3 0 0 0 7 3 1 4 11 8 8 3 11 82	09:00 10:00	0	0	0	12	-	13	13
1 0 1 3 0 0 0 7 3 1 4 11 0 0 14 8 3 11 82	11:30 12:30	-	0	-	ဗ	2	8	6
3 1 4 11 82 14 82 82 82 82 82 82 82 82 82 82 82 82 82	:30 13:30	-	0	-	ဗ	9	6	10
3 1 4 11 0 0 0 14 11 88	:00 16:00	0	0	0	7	1	18	18
0 0 0 14 8 3 11 82	:00 17:00	က	-	4	1	22	33	37
8 3 11 82	:00 18:00	0	0	0	4	25	39	39
:	Fotal	8	3	11	82	83	165	176

Comment:

Page 1 of 1 Note: These volumes consists of bloycles only (no mopeds or motorcycles) and ARENOT included in the Turning Movement Count Summary.

2018-Jan-16



Total Area

Classification of Accident	Rear End	Turning Movement	Sideswipe	Angle	Approaching	Single Vehicle (other)	Single vehicle (Unattended vehicle)	Other	Total	
P.D. only	42	13	7	4	0	0	0	1	67	83%
Non-fatal injury	6	6	1	1	0	0	0	0	14	17%
Non reportable	0	0	0	0	0	0	0	0	0	0%
Total	48	19	8	5	0	0	0	1	81	100%
	#1 or 59%	#2 or 23%	#3 or 10%	#4 or 6%	#6 or 0%	#6 or 0%	#6 or 0%	#5 or 1%		="

Ogilvie Rd, Aviation Pkwy to Palmerston Dr

ognitic ita, n	* : a : : 0 : : : : :	to i unificiate	,,, ,,,	
Years	Total #	24 Hr AADT	Days	Collisions/MFV
rears	Collisions	Veh Volume	Days	COIIISIONS/IVIEV
2014-2016	3	28.575	1095	0.10

Classification of Accident	Rear End	Turning Movement	Sideswipe	Angle	Approaching	Single Vehicle (other)	Single vehicle (Unattended vehicle)	Other	Total
P.D. only	1	0	2	0	0	0	0	0	3
Non-fatal injury	0	0	0	0	0	0	0	0	0
Non reportable	0	0	0	0	0	0	0	0	0
Total	1	0	2	0	0	0	0	0	3
	33%	0%	67%	0%	0%	0%	0%	0%	

100% 0% 0% 100%

Ogilvie Rd/Palmerston Dr

09				
Years	Total #	24 Hr AADT	Days	Collisions/MFV
rears	Collisions	Veh Volume	Days	COIIISIOIIS/IVIEV
2014 2014	10	30.004	1005	0.30

Classification of Accident	Rear End	Turning Movement	Sideswipe	Angle	Approaching	Single Vehicle (other)	Single vehicle (Unattended vehicle)	Other	Total
P.D. only	4	2	1	1	0	0	0	1	9
Non-fatal injury	0	1	0	0	0	0	0	0	1
Non reportable	0	0	0	0	0	0	0	0	0
Total	4	3	1	1	0	0	0	1	10
	10%	30%	10%	10%	0%	0%	0%	10%	-

90% 10% 0% 100%

Ogilvie Rd/Aviation Pkwy

Years	Total # Collisions	24 Hr AADT Veh Volume	Days	Collisions/MEV
2014-2016	68	46,535	1095	1.33

Classification of Accident	Rear End	Turning Movement	Sideswipe	Angle	Approaching	Single Vehicle (other)	Single vehicle (Unattended vehicle)	Other	Total	
P.D. only	37	11	4	3	0	0	0	0	55	81
Non-fatal injury	6	5	1	1	0	0	0	0	13	19
Non reportable	0	0	0	0	0	0	0	0	0	0'
Total	43	16	5	4	0	0	0	0	68	10
	63%	24%	7%	6%	0%	0%	0%	0%		-

81% 19% 0% 00%



Harte, Andrew

From: Stefanoff, Genya <genya.stefanoff@ottawa.ca>

Sent: Monday, February 26, 2018 9:30 AM

To: Harte, Andrew Cc: Nahas, Rani

Subject: RE: Transit Data Request - Ogilvie/Aviation - Route 24

Hi Andrew,

My apologies for the delay. Please find below passenger data from the January 2017 booking for the AM and PM peak periods (6-9am and 3-6pm, respectively). The data was gathered for Route 124, which was the route number in Jan. 2017. This route was renumbered to Route 24 in the June 2017 service change.

	AM Peak			PM Peak		
Stop#	ONs	OFFs	Average load at departure	ONs	OFFs	Average load at departure
8521	0	0	11	0	1	12
1238	0	1	10	0	0	11

The typical bus types planned on this route during the AM and PM peak periods in Jan 2017 were as follows:

Route	AM peak period	PM peak period
24*	40-foot	40-foot

^{*} As noted above, this route was numbered as Route 124 in Jan. 2017.

Please don't hesitate to contact me if you have any questions or require additional information.

Best regards, Genya

Genya Stefanoff, MCIP, RPP Senior Transit Planner, Service Strategy

City of Ottawa | OC Transpo | Transportation Services Department 1500 St. Laurent Blvd., Ottawa, ON K1G 0Z8

tel: 613-580-2424 ext. 52294 genya.stefanoff@ottawa.ca



