210 Clearview Avenue Transportation Impact Assessment

Step 1 Screening Report
Step 2 Scoping Report
Step 3 Strategy Report (Rev #2)

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1 Screening

This study has been prepared according to the City of Ottawa's 2017 Transportation Impact Assessment (TIA) Guidelines, incorporating the 2023 Revision to Transportation Impact Assessment Guidelines. Accordingly, a Step 1 Screening Form has been prepared and is included as Appendix A, along with the Certification Form for the TIA Study PM. As shown in the Screening Form, a TIA is required, and this study has been prepared to support site plan application.

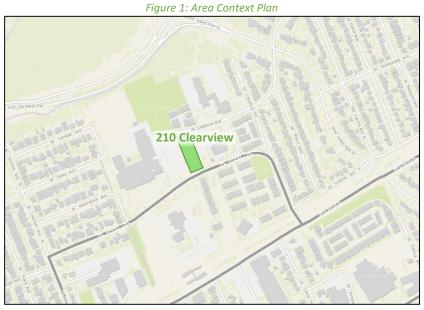
2 Existing and Planned Conditions

2.1 Proposed Development

The planned redevelopment of 210 Clearview Avenue, located on the existing parking lot adjacent to 200 Clearview Avenue, will consist of a 25-storey tower with a four-storey podium, and a total of 187 apartment units. The two existing accesses to the surface parking lot will be converted to an access to the underground parking from Clearview Avenue and the Lanark Avenue access will be to the loading area. A new loop will be created from the existing drive aisle from 200 Clearview Avenue from Ellendale Crescent to connect to Lanark Avenue at a new access. A total of 228 residential vehicle parking spaces, 18 visitor parking spaces, and 190 bike parking spaces are proposed for the new building. Among these parking spaces, a total of ten vehicle parking spaces and six bicycle parking spaces are proposed to be located on the surface, while the remaining spaces are planned for the underground levels. The anticipated full build-out and occupancy horizon is 2027 with construction occurring in a single phase. The site is zoned as Residential Fifth Density Zone (R5C[2909]S216) and located within the Richmond Road/Westboro secondary plan and Richmond Road/Westboro community design plan areas.

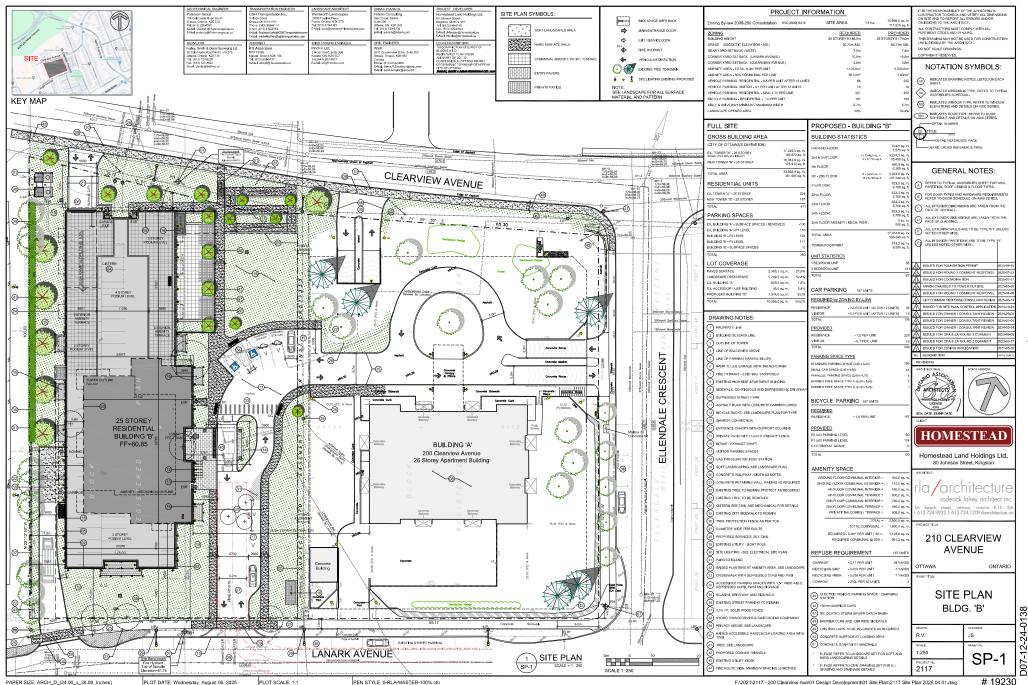
There is an existing 26-storey apartment building consists of a total of 224 residential units and currently provides with 210 parking spaces and may share parking within the new building. As part of the redevelopment, all 100 of the existing surface parking spaces will be removed, with only the 110 parking spaces on P1 level remaining.

Figure 1 illustrates the study area context. Figure 2 illustrates the proposed concept plan.



Source: http://maps.ottawa.ca/geoOttawa/ Accessed: August 14, 2024





2.2 Existing Conditions

2.2.1 Area Road Network

Island Park Drive: Island Park Drive is a federally owned arterial road with a two-lane urban cross-section. Bike lanes and pathways are provided on both sides of the road. The posted speed limit is 40 km/h, and the existing right-of-way within the study area is 30.5 metres. Commercial trucks are prohibited on Island Park Drive.

Kichi Zibi Mikan Parkway (Previous Sir John A. Macdonald Parkway): Kichi Zibi Mikan Parkway is a federally owned arterial road with a divided, four-lane urban cross-section. A pathway is provided on the south side of the roadway within the study area. The posted speed limit is 60km/h east of Island Park Drive and 50 km/h west of Island Park Drive. The existing right-of-way throughout the study area varies along adjacent properties.

Churchill Avenue: Churchill Avenue is a City of Ottawa arterial road with a two-lane urban cross-section south of Scott Street, a collector road between Scott Street and Lanark Avenue, and a local road north of Lanark Avenue. Sidewalks are provided on both sides of the roadway south of Lanark Avenue. The unposted speed limit is 50 km/h. Parking is permitted on the east side of the road north of Scott Street and for a maximum of one hour on both sides of the road south of Scott Street from 7 AM to 7 PM. The existing right-of-way within the study area is 21.0 metres. Churchill Avenue south of Scott Street is designated as a truck route.

Scott Street: Scott Street is a City of Ottawa arterial road with a three-lane urban cross-section, with an eastbound transit lane to the west of Island Park Drive and a continuous left-turn lane to the east of Island Park Drive. An asphalt path marked as a sidewalk and unidirectional cycle track are provided on both sides of the road between Churchill Avenue and Goldenrod Driveway. The posted speed limit is 50 km/h, and the City-protected right-of-way is 26.0 metres. Scott Street is designated as a truck route.

Lanark Avenue: Lanark Avenue is a City of Ottawa collector road with a two-lane urban cross-section. Sidewalks are located on both sides of the roadway. The posted speed limit is 40km/h on school days between 7:00 AM to 9:00 AM and 2:00 PM to 5:00 PM. The existing right-of-way within the study area is 20.5 metres.

Clearview Avenue: Clearview Avenue is a City of Ottawa local road with a two-lane urban cross-section east of Ellendale Crescent and a two-lane rural cross-section west of Ellendale Crescent. Sidewalks are present on both sides of the roadway between Ellendale Crescent and Latchford Road, on the north side of the road between Latchford Road and Island Park Drive, and on both sides east of Island Park Drive. The posted speed limit is 40 km/h, and parking is permitted on the south side of the road west of Ellendale Crescent. The existing right-of-way is 20.0 metres.

2.2.2 Existing Intersections

The existing signalized area key intersections within 400 metres of the site have been summarized below:

Island Park Drive at Kichi Zibi Mikan Parkway

The intersection of Island Park Drive at Kichi Zibi Mikan Parkway is a signalized intersection. Island Park Drive will be considered the north-south roadway. The northbound approach has a through lane, a bike lane, and an auxiliary channelized right-turn lane, and the southbound approach has an auxiliary left-turn lane, a left-turn lane, a through lane, a bike lane, and an auxiliary channelized right-turn lane. The eastbound and the westbound approaches each consist of an auxiliary left-turn lane, two through lanes, and an auxiliary channelized right-turn lane. Northbound left turns are prohibited, and



an additional westbound right-turn prohibition is included between the channelized right-turn and the intersection.

Island Park Drive at Clearview Avenue

The intersection of Island Park Drive and Clearview Avenue is a stop-controlled intersection on the minor approaches of Clearview Avenue. Island Park Drive will be considered the north-south roadway. The northbound and southbound approaches each consists of a shared all-movement lane and a bike lane. The eastbound and westbound approaches each consists of a shared all-movement lane. The vehicles are prohibited from making westbound right-turn and eastbound left-turn movements during weekdays between 3:30 – 6:00 PM. Bicycles are permitted to make these movements, and authorized vehicles are permitted to make eastbound left-turn movement. Trucks are restricted from accessing the east leg. A pedestrian cross-over is provided across Island Park Drive on the north side of the intersection.

Island Park Drive at Scott Street

The intersection of Island Park Drive at Scott Street is a signalized intersection. The northbound approach consists of a shared all-movement lane, and the southbound approach consists of an auxiliary left-turn lane and a shared through/right-turn lane. The eastbound approach consists of an auxiliary left-turn lane, a through lane, and a shared bus lane/right-turn lane, and the westbound approach consists of an auxiliary left-turn lane, a through lane, and an auxiliary right-turn lane. A bus stop is located in the eastbound auxiliary right-turn lane and a queue-jump style receiving lane is provided on the east side of the intersection to merge transit into the general travel lane. Bike crossrides are provided for all directions.

Lanark Avenue at Scott Street

The intersection of Lanark Avenue at Scott Street is a signalized intersection. The northbound, southbound, and westbound approaches each consists of an auxiliary left-turn lane and a shared through/right-turn lane. The eastbound approach consists of an auxiliary left-turn lane, a through, and a shared bus lane/right-turn lane. No turn restrictions were noted. Bike cross rides are provided for all directions.

Lanark Avenue at Churchill Avenue

The intersection of Lanark Avenue at Churchill Avenue is an all-way stop-controlled T-intersection. The northbound approach consists of a shared through/right-turn land, and the southbound approach consists of a shared left-turn/through lane. The westbound approach consists of a shared left-turn/right-turn lane. No turn restrictions were noted.

2.2.3 Existing Driveways

Within 200 metres of the site accesses, one driveway to a school, two driveways to an office, one driveway to a high-rise building, and two driveways to two dwelling units are located on Lanark Avenue. Four driveways to three high-rise buildings and three driveways to six townhouses are on Clearview Avenue. Figure 3 illustrates the existing driveways.





Figure 3: Existing Driveways

Source: http://maps.ottawa.ca/geoOttawa/ Accessed: August 16, 2024

2.2.4 Cycling and Pedestrian Facilities

Figure 4 illustrates the pedestrian facilities in the study area and Figure 5 illustrates the cycling facilities.

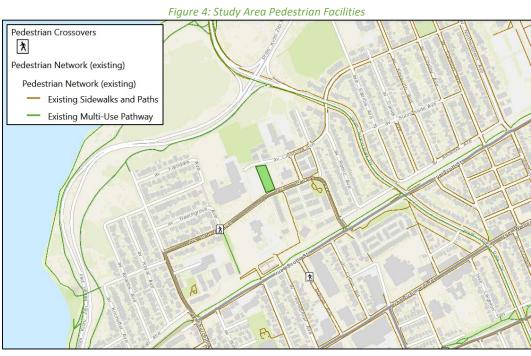
Sidewalks are provided on both sides along Lanark Avenue, Churchill Avenue south of Lanark Avenue, and on the south side along Scott Street. Along Clearview Avenue, sidewalks are presented on both sides between Ellendale Crescent and Latchford Road, on the north side of the road between Latchford Road and Island Park Drive, and on both sides east of Island Park Drive. A pedestrian pathway extends south of Lanark Avenue between the 200 Lanark Avenue and 38 Metropole Private properties, and loops to Westboro Station. Multi use pathways are present on the north side of Scott Street and another connects Lanark Avenue from the Beechgrove Avenue intersection to the Westboro Station.

Pedestrian crossovers are present at the intersections of Beechgrove Avenue at Lanark Avenue and Island Park Drive at Clearview Avenue.

Bike lanes are provided on both sides along Island Park Drive, and Scott Street has a multi-use pathway on the north side and an eastbound cycle track on the south side.

The Transportation Master Plan – Part 1 (2023) identified Island Park Drive and Scott Street as cross-town bikeways and Kichi Zibi Mikan Parkway east of Island Park Drive as NCC Pathway.





Source: http://maps.ottawa.ca/geoOttawa/ Accessed: August 16, 2024



Figure 5: Study Area Cycling Facilities

Source: http://maps.ottawa.ca/geoOttawa/ Accessed: August 16, 2024

Pedestrian and cyclist volumes included in study area intersection counts, presented in Section 2.2.7, have been compiled and are illustrated in Figure 6 and Figure 7, respectively.



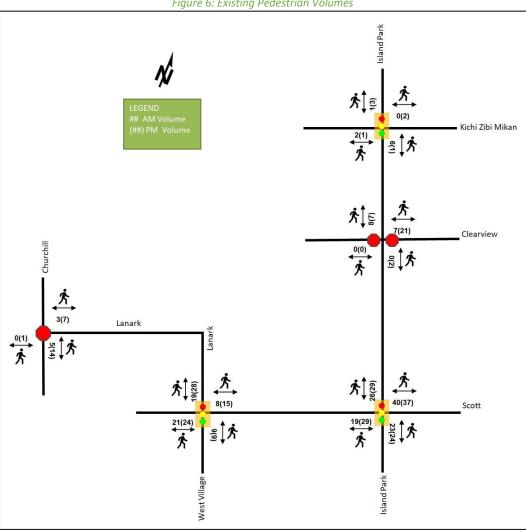


Figure 6: Existing Pedestrian Volumes



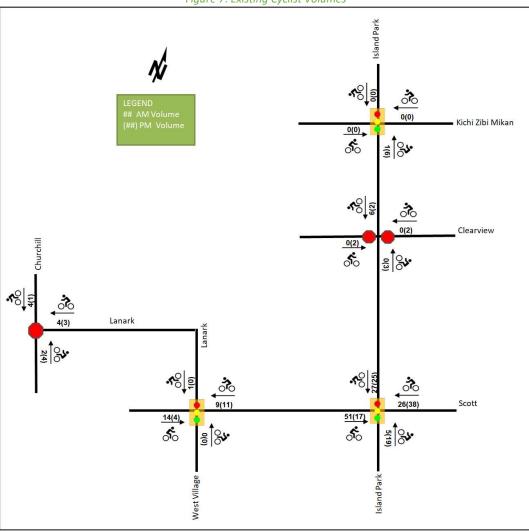


Figure 7: Existing Cyclist Volumes

2.2.5 Existing Transit

Figure 8 illustrates the transit system map in the study area and Figure 9 illustrates transit stops within 400-metre radius of the site and transit stations within 800-metre radius of the site. All transit information is from August 16, 2024 and is included for general information purposes and context to the surrounding area.

Within the study area, routes #16 and #153 travel along Lanark Avenue. Nearest stops are located at the intersections of Lanark Avenue at Briarway Private and Lanark Avenue at Champlain. The frequency of these routes within proximity of the proposed site based on August 16, 2024 service levels are:

- Route # 16 30-minute service all day
- Route # 153 2-hour service from 11:00 AM to 7:00 PM



Tunney's Pasture Notice / Avis Due to the closure of the Transitway between 66 16 Tunney's Pasture and Dominion Stations, bus routes will be detoured to travel on Scott 67 73 82 89 Street using the realigned Scott Street extension to Kichi Zibi Mikan. Visit 153 octranspo.com for more information. En raison de la fermeture du tronçon du Transitway entre les stations Tunney's Pasture et Dominion, certains circuits d'autobus seront déviés pour emprunter la rue Scott, et suivront ainsi le nouveau tracé du prolongement de cette rue, afin de rejoindre Kichi Zibi Mikan. Pour en savoir plus, consultez octranspo.com. Legend Rapides Remic Rapids -98 Kichi Zibi N210 Clearview Columbine Frequent Banting 93 — 28 — Local 16 Frederick Limited service Eglantine Occasional trips 153 Tunney's only Westboro **Pasture** 310 31 Terminus School Transit station 16 50 66 O-Train Wellington 153 - 2

Figure 8: Existing Study Area Transit Service

Source: http://www.octranspo.com/ Accessed: August 16, 2024



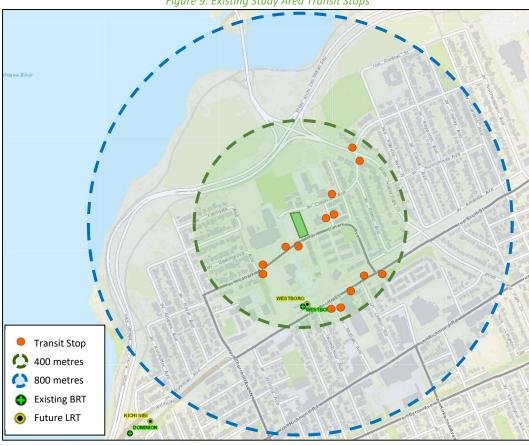


Figure 9: Existing Study Area Transit Stops

Source: http://www.octranspo.com/ Accessed: August 16, 2024

2.2.6 Existing Area Traffic Management Measures

Bulb-outs are provided along Lanark Avenue, along Churchill Avenue south of Lanark Avenue, and at 1950 Scott Street only along Scott Street.

At the Island Park Drive and Clearview Avenue intersection, the vehicles are prohibited from making westbound right-turn and eastbound left-turn movements during weekdays between 3:30 - 6:00 PM. Bicycles are permitted to make these movements, and authorized vehicles are permitted to make eastbound left-turn movements.

Two speed humps are located along Lanark Avenue north of Scott Street.

2.2.7 Existing Peak Hour Travel Demand

Existing turning movement counts were acquired from the City of Ottawa for the existing study area intersections. Table 1 summarizes the intersection count dates. As City's request, the existing traffic counts are unbalanced in the existing condition, and discrepancies have been noted along Island Park Drive.

Table 1: Intersection Count Date

Intersection	Count Date						
Island Park Drive at Kichi Zibi Mikan Parkway	Wednesday, August 21, 2024						
Island Park Drive at Clearview Avenue	Tuesday, March 21, 2023						
Island Park Drive at Scott Street	Thursday, October 27, 2022						
Lanark Avenue at Scott Street	Thursday, November 30, 2023						
Lanark Avenue at Churchill Avenue	Thursday, October 24, 2019						



Figure 10 illustrates the existing traffic counts and Table 2 summarizes the existing intersection operations. The level of service for signalized intersections is based on volume to capacity ratio (v/c) calculations for individual lane movements and HCM 2000 v/c calculations for the overall intersection, and average delay for unsignalized intersections. Detailed turning movement count data is included in Appendix B and the Synchro worksheets are provided in Appendix C.

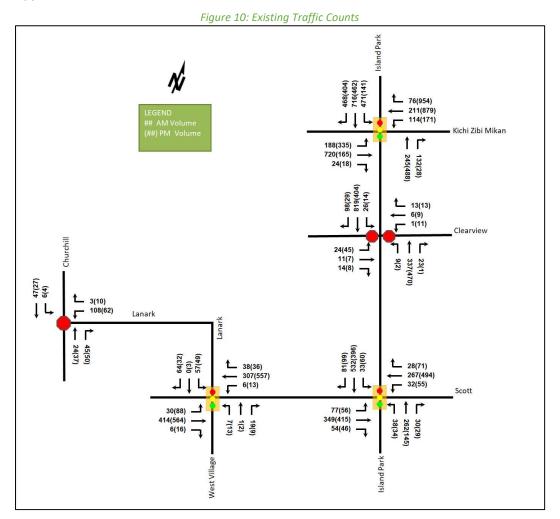


Table 2: Existing Intersection Operations

Intersection	Lane	AM Peak Hour				PM Peak Hour			
	Lane	LOS	V/C	Delay (s)	Q (95 th)	LOS	V/C	Delay (s)	Q (95 th)
	EBL	F	1.99	511.5	#191.5	F	1.09	138.2	#212.5
	EBT	D	0.82	62.5	#201.4	Α	0.16	40.6	33.6
	EBR	Α	0.06	0.2	0.0	Α	0.04	0.1	0.0
Island Park Drive	WBL	F	1.21	213.7	#115.7	Α	0.56	69.7	88.4
at Kichi Zibi Mikan	WBT	Α	0.24	46.9	52.4	D	0.86	62.8	196.9
Parkway	WBR	Α	0.17	10.1	15.2	F	1.71	355.6	#582.7
Signalized	NBT/R	D	0.87	72.1	185.0	F	1.29	194.9	#329.2
	SBL	D	0.81	73.1	120.0	D	0.88	121.4	#50.3
	SBT/R	F	1.50	258.5	#739.1	F	1.65	335.6	#563.6
	Overall	F	1.37	161.7	-	F	1.69	214.5	-



Intersection			AM P	eak Hour			PM Pe	ak Hour	
	Lane	LOS	V/C	Delay (s)	Q (95 th)	LOS	V/C	Delay (s)	Q (95 th)
	EB	F	0.44	55.0	14.3	D	0.33	31.7	10.5
Island Park Drive	WB	С	0.10	23.7	2.3	С	0.15	21.7	3.8
at Clearview Avenue	NB	В	0.02	10.4	0.0	Α	0.00	8.4	0.0
Unsignalized	SB	Α	0.03	8.2	0.8	Α	0.02	8.6	0.0
Olisigilalizea	Overall	Α	-	2.5	-	Α	-	2.7	-
	EBL	Α	0.34	24.5	21.1	Α	0.34	20.5	m14.0
	EBT	D	0.84	43.2	#114.5	С	0.71	26.3	112.1
	EBR	Α	0.12	1.3	0.9	Α	0.08	0.5	m0.2
Jalamal Dawle Duisea	WBL	Α	0.19	26.3	12.5	Α	0.25	22.3	17.3
Island Park Drive at Scott Street	WBT	В	0.61	33.5	73.0	D	0.86	41.9	#155.2
Signalized	WBR	Α	0.06	0.2	0.0	Α	0.13	4.0	7.3
Signanzea	NB	Α	0.54	18.1	67.0	Α	0.42	21.2	48.4
	SBL	Α	0.08	11.9	8.2	Α	0.15	18.0	16.1
	SBT/R	С	0.76	24.4	139.3	С	0.74	30.1	125.4
	Overall	С	0.79	27.0	-	С	0.80	28.8	-
	EBL	Α	0.05	4.1	4.2	Α	0.19	5.3	11.1
	EBT/R	Α	0.40	5.9	48.8	Α	0.52	7.2	75.3
	WBL	Α	0.01	1.7	m0.2	Α	0.03	4.5	m0.7
Lanark Avenue at	WBT/R	Α	0.32	2.2	m13.4	Α	0.53	5.2	m38.4
Scott Street	NBL	Α	0.05	35.6	5.3	Α	0.09	38.5	8.0
Signalized	NBT/R	Α	0.11	16.3	6.6	Α	0.06	22.2	5.3
	SBL	Α	0.40	45.0	22.5	Α	0.33	44.3	20.9
	SBT/R	Α	0.11	0.4	0.0	Α	0.19	16.1	9.6
	Overall	Α	0.42	6.9	-	Α	0.53	8.1	-
Lamante Assamus at	WB	Α	0.15	8.2	3.8	Α	0.10	7.8	2.3
Lanark Avenue at Churchill Avenue	NB	Α	0.09	7.4	2.3	Α	0.10	7.2	2.3
	SB	Α	0.07	7.6	1.5	Α	0.04	7.4	0.8
Unsignalized	Overall	Α	-	7.8	-	Α	-	7.5	-

Saturation flow rate of 1800 veh/h/lane

Notes: Queue is measured in metres

Peak Hour Factor = 0.90

Delay = average vehicle delay in seconds

m = metered queue

= volume for the 95th %ile cycle exceeds capacity

During both peak hours, the Island Park Drive at Kichi Zibi Mikan Parkway intersection is over capacity and subject to queuing issues.

At the intersection of Island Park Drive at Kichi Zibi Mikan Parkway, the eastbound through left, westbound left, and southbound shared through/right movements, and overall intersection during the AM peak and eastbound left, westbound right, northbound shared through/right, and southbound shared through/right movements, and overall intersection during the PM peak are over theoretical capacity and may subject to high delays and extended queues. Extended queues may be exhibited on the eastbound through movement during the AM peak and southbound left during the PM peak. High delays are noted on the southbound left during the PM peak.

The delay for eastbound traffic during the AM peak at the intersection of Island Park Drive and Clearview Avenue is noted to be over 50 seconds.

At the intersection of Island Park Drive and Scott Street, extended queues may be exhibited on the eastbound through during the AM peak and westbound share through/right-turn movements during the PM peak. These queues are in the peak direction of travel for these peak hours.



2.2.8 Collision Analysis

Collision data have been acquired from the City of Ottawa open data website (data.ottawa.ca) for five years prior to the commencement of this TIA for the surrounding study area road network. Table 3 summarizes the collision types and conditions in the study area, Figure 11 illustrates the intersections and segments analyzed, and Table 4 summarizes the total collisions for each of these locations. Collision data are included in Appendix D.

Table 3: Study Area Collision Summary, 2018-2022

		Number	%
Total C	Collisions	4	100%
	Fatality	0	0%
Classification	Non-Fatal Injury	2	50%
	Property Damage Only	2	50%
Initial Impact Type	SMV Unattended	3	75%
Initial Impact Type	Other	1	25%
Road Surface Condition	Dry	4	100%
Pedestrian Involved	0	0%	
Cyclists Involved	0	0%	

Figure 11: Study Area Collision Records

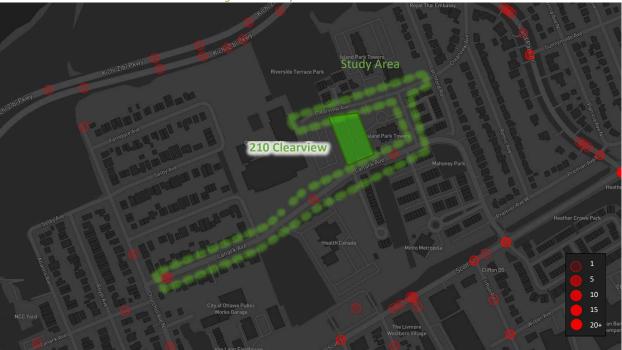


Table 4: Summary of Collision Locations, 2018-2022

	Number	%
Intersections / Segments	4	100%
Lanark Ave btwn Beechgrove Ave & Churchill Ave N	2	50%
Lanark Ave btwn Beechgrove Ave & Briarway Priv	1	25%
Lanark Ave btwn Briarway Priv & Metropole Priv	1	25%

Within the study area, the intersection and segments have a total of four collisions during the 2018-2022 time period with two involving property damage only and two having non-fatal injuries. There are three SMV



Unattended collisions and one other collision type. Due to the low number of collisions in the vicinity of the site, no further collision analysis is required within this study.

2.3 Planned Conditions

2.3.1 Changes to the Area Transportation Network

2.3.1.1 Richmond Road/Westboro Community Design Plan (CDP)

The subject development is within the Richmond Road/Westboro Community Design Plan (CDP) Area. The CDP illustrates green street, two-metre sidewalk and dedicated on-road cycle-lanes or signed cycle route on key local streets and informal pedestrian/cycling links connected to transitway station, local parks, community, and Ottawa River to be incorporated into the development as it redevelops or undergoes rehabilitation. The planned multiuse pathway runs through the Jules-Léger Centre property adjacent to the site. A multi-use pathway connection is provided between Westboro Station and the Kichi Zibi Mikan.

2.3.1.2 Confederation Line West Extension - Westboro Station

Westboro station is identified as one of the Confederation Line West extension new stations in the Stage 2 Light Rail Transit (LRT) project and will be converted to accommodate LRT. Additional pedestrian connectivity, bicycle facilities, and a bus staging area will be provided. The anticipated build-out year of the project is 2026.

Additionally, as stated by the City of Ottawa, Scott Street between Churchill Avenue and Tunney's Pasture has been used as a Transitway detour during the construction of the Stage 2 Confederation Line West extension. The bus only eastbound lane on Scott Street from Clifton Road to Island Park Drive, and the westbound right-turn lane at Island Park Drive were part of detour plan. It is noted that the westbound right-turn lane at Island Park Drive is to alleviate westbound queues at the intersection. It has been confirmed that the Transitway detour will be removed prior to 2026, including the eastbound bus / right-turn lane and bus receiving lane at the Scott Street / Lanark Avenue intersection as well as the westbound-right turn lane and eastbound bus receiving lane at the Scott Street / Island Park Drive intersection. The proposed detour plan can be found in Appendix E.

2.3.1.3 OC Transpo New Ways to Bus

Responding to recent ridership trends and anticipating the upcoming completion of the Stage 2 expansion of LRT service within the City, the OC Transpo bus service is planned to be recalibrated to focus on frequency, local service in neighbourhoods, and connections to key destinations. Route 16 will be replaced by new Route 81 and Route 153 will be shifted off Lanark Avenue. Figure 12 illustrates the new service map.



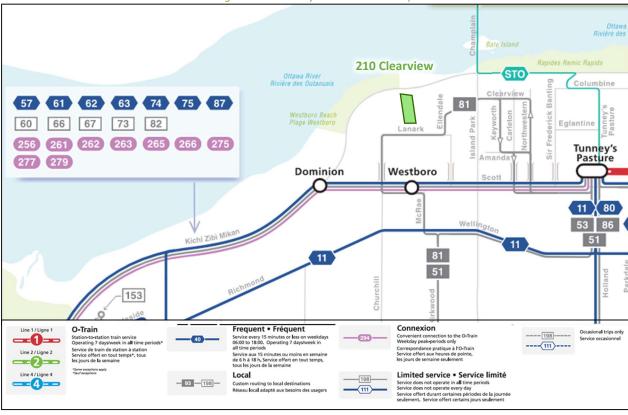


Figure 12: New Ways to Bus Service Map

Source: www.octranspo.com Accessed: March 19, 2025

2.3.2 Other Study Area Developments

234 Atlantis Avenue and 745 Kichi Zibi Mikan Parkway

The proposed development includes a zoning by-law amendment, which consists of a parking lot, a lookout parking area, modifications to the SJAM Parkway at the Kitchissippi lookout, and an expansion of the existing Westboro Beach Café pavilion into new 14,000 m² Pavilion building facility. Due to the small change in the number of parking spots provided and decrease in the size of the proposed building, it is expected not to have any significant impact on the overall network. (exp Services Inc., 2020)

316-322 Clifton Road

The proposed development application includes a site plan application for the construction of 31 dwelling units. The development is anticipated to be built out in 2025. The Screening Form did not identify the need for a full TIA.

70 Richmond Road and 376 Island Park Drive

The proposed development includes a site plan application for the construction of a nine-storey mixed-use building, including 96 residential units and 1,455 ft² of ground floor retail. The anticipated built out year was 2023, and it is assumed to be 2025. The trip generation trigger does not meet. (CGH Transportation, 2023)

175 Richmond Road

The proposed development application includes a zoning by-law amendment consist of a six-storey mixed-use building with 104 residential units and 7,525 $\rm ft^2$ of retail. The development is anticipated to be built out in 2025. Only TIA scoping report is available at this time. (Novatech, 2020)



295, 299, 301 Ashton Avenue and 2046, 2050 Scott Street

The proposed development application includes a site plan application for the construction of a 30-storey mixed use residential tower with 353 units and 233 m² of ground commercial/office. The anticipated built out year was 2021, and it is assumed to be 2025. The development is anticipated to generate 35 new AM and 35 PM peak hour two-way auto trips. (Parsons, 2021)

315 Tweedsmuir Avenue and 320 McRae Avenue

The proposed development includes a zoning by-law amendment and site plan control application to construct a 26-storey mixed-use development containing 325 apartment units, 11 townhouse units, and 820 m² (8,826 ft²) of commercial space. The anticipated full build-out and occupancy horizon is 2022 and is anticipated to generate 34 new AM and 41 PM peak hour two-way auto trips. (CGH Transportation, 2020)

2070 Scott Street

The proposed development includes a zoning by-law amendment and site plan control application to construct a 25-storey mixed-use building with 264 residential units and 5,554 ft² of ground floor retail. The anticipated full build-out and occupancy horizon is 2022 and it is anticipated to generate 38 new AM and 35 PM peak hour two-way auto trips. (Stantec, 2019)

319-327 Richmond Road, 380 Winona Avenue, and 381 Churchill Avenue

The proposed development application includes a site plan application for the construction of a nine-storey building with 180 apartment units, 18,675 sq. ft. of retail space. The anticipated built out year was 2021, and it is assumed to be 2024. The development is anticipated to generate 21 new AM and 30 PM peak hour two-way auto trips. (CGH Transportation, 2021)

2006, 2020, and 2026 Scott Street, 314 and 318 Athlone Avenue

The proposed development application includes a site plan application consist of two 40-storey towers with a total of 856 dwelling units and approximately 3,207 ft² of ground-floor commercial space. Phase One includes 392 dwellings and 1,287 ft² of commercial space, and Phase Two includes 464 dwellings and 1,920 ft² of commercial space. The anticipated buildout of Phase One is 2026 and the buildout of Phase Two is 2029, and the net additional auto trips are anticipated to be 20 AM and -4 PM peak hour two-way auto trips. (Novatech, 2024)

3 Study Area and Time Periods

3.1 Study Area

The study area will include the intersections of:

- Island Park Drive at:
 - Kichi Zibi Mikan Parkway
 - o Clearview Avenue
 - Scott Street
- Lanark Avenue:
 - Scott Street
 - o Churchill Avenue

The boundary road will be Clearview Avenue and Lanark Avenue, and no screenlines are present within proximity to the site.

3.2 Time Periods

As the proposed development is composed entirely of residential units the AM and PM peak hours will be examined.



3.3 Horizon Years

The anticipated build-out year is 2027. As a result, the full build-out plus five years horizon year is 2032.

4 Development-Generated Travel Demand

4.1 Mode Shares

Examining the mode shares recommended in the TRANS Trip Generation Manual (2020) for the subject district, derived from the most recent National Capital Region Origin-Destination survey (OD Survey), the existing average district mode shares by land use for Ottawa West have been summarized in Table 5.

Travel Mode	Multi-Unit	TOD Area	
Travel Wode	AM	PM	AM & PM
Auto Driver	28%	33%	15%
Auto Passenger	11%	11%	5%
Transit	41%	26%	65%
Cycling	3%	7%	150/
Walking	16%	23%	15%
Total	100%	100%	100%

Table 5: TRANS Trip Generation Manual Recommended Mode Shares – Ottawa West

Since the future Westboro LRT station, which is located within a 300-metre linear distance (500-metre walking distance) from the site, is planned to be completed by 2026, a higher transit mode is considered achievable at this location. A 15% shift to transit mode taken from the auto mode is proposed for both peak hours. The proposed modified mode share targets for the development and are summarized in Table 6.

Tuescal Manda	Multi-Unit (High-Rise)				
Travel Mode	AM	PM			
Auto Driver	17%	21%			
Auto Passenger	8%	8%			
Transit	56%	41%			
Cycling	3%	7%			
Walking	16%	23%			
Total	100%	100%			

Table 6: Proposed Development Mode Shares

4.2 Trip Generation

This TIA has been prepared using the vehicle and person trip rates for the residential dwellings using the TRANS Trip Generation Manual (2020). Table 7 summarizes the person trip rates for the proposed residential land uses for each peak period.

Table 7: Trip Generation Person Trip Rates by Peak Period

Land Use	Land Use Code	Peak Period	Person Trip Rates	
Naviki Iliaik (Iliah Diaa)	221 & 222	AM	0.80	
Multi-Unit (High-Rise)	(TRANS)	PM	0.90	

Using the above person trip rates, the total person trip generation has been estimated. Table 8 summarizes the total person trip generation for the residential land uses.



Table 8: Total Person Trip Generation by Peak Period

Land Use	Units	Д	M Peak Perio	d	PM Peak Period			
Land Use		In	Out	Total	In	Out	Total	
Multi-Unit (High-Rise)	187	47	104	150	97	71	168	

Using the above mode share targets for a LRT area and the person trip rates, the person trips by mode have been projected. Trip generation by peak hour has been forecasted using the prescribed peak period conversion factors presented in the TRANS Trip Generation Manual (2020) for the residential component. Table 9 summarizes the residential trip generation by mode and peak hour.

Table 9: Trip Generation by Mode

Travel Mode		Δ	AM Peak Hour				PM Peak Hour			
		Mode Share	In	Out	Total	Mode Share	In	Out	Total	
	Auto Driver	17%	4	8	12	21%	9	6	15	
it se)	Auto Passenger	8%	2	4	6	8%	3	3	6	
-Unit -Rise)	Transit	56%	14	32	46	41%	19	13	32	
Multi-Unit (High -Rise)	Cycling	3%	1	2	3	7%	3	3	6	
ΣΞ	Walking	16%	4	10	14	23%	12	8	20	
	Total	100%	25	56	81	100%	46	33	79	

As shown above, a total of 12 AM and 15 PM new peak hour two-way vehicle trips are projected as a result of the proposed development.

4.3 Trip Distribution

To understand the travel patterns of the subject development, the OD Survey has been reviewed to determine the travel for the residential component, and these patterns were applied based on the build-out of Ottawa West Table 10 below summarizes the distributions.

Table 10: OD Survey Distribution – Ottawa West

To/From	Residential % of Trips
North	5%
South	50%
East	40%
West	5%
Total	100%

4.4 Trip Assignment

Using the distribution outlined above, turning movement splits, and access to major transportation infrastructure, the trips generated by the site have been assigned to the study area road network. It is noted that traffic cannot be assigned to the eastbound left-turn movement from Clearview Avenue to Island Park Drive during the PM peak hour, as it is a prohibited movement. As a result, the trip assignment will differ between the AM and PM peak hours. Table 11 and Table 12 summarize the proportional assignment to the study area roadways during the AM peak hour and the PM peak hour, and Figure 13 illustrates the new site generated volumes.

Table 11: Trip Assignment – AM Peak Hour

To/From	Via			
North	3% Kichi Zibi Mikan Parkway (E)			
North	2% Island Park Drive (N)			
South	30% Island Park Drive (S)			
South	20% Churchill Avenue (S)			

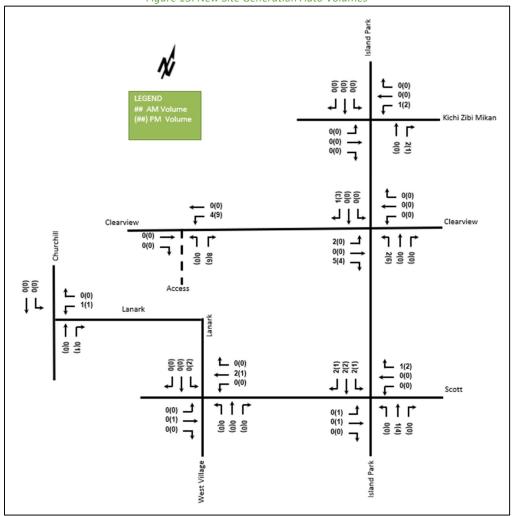


To/From	Via
East	20% Kichi Zibi Mikan Parkway (E) 20% Scott Street (E)
West	2% Churchill Avenue (S) 2% Kichi Zibi Mikan Parkway (W) 1% Island Park Drive (N)
Total	100%

Table 12: Trip Assignment – PM Peak Hour

To/From	Inbound Via	Outbound Via	
North	3% Kichi Zibi Mikan Parkway (E)	3% Kichi Zibi Mikan Parkway (E)	
North	2% Island Park Drive (N)	2% Island Park Drive (N)	
Courth	30% Island Park Drive (S)	30% Island Park Drive (S)	
South	20% Churchill Avenue (S)	20% Churchill Avenue (S)	
East 2	20% Kichi Zibi Mikan Parkway (E)	40% Scott Street (E)	
	20% Scott Street (E)	40% Scott Street (E)	
	2% Churchill Avenue (S)	2% Churchill Avenue (S)	
West	2% Kichi Zibi Mikan Parkway (W)	2% Kichi Zibi Mikan Parkway (W)	
	1% Island Park Drive (N)	1% Island Park Drive (N)	
Total	100%	100%	

Figure 13: New Site Generation Auto Volumes





5 Exemption Review

Table 13 summarizes the exemptions for this TIA.

Table 13: Exemption Review

84-11	El	Table 13: Exemption Review	F
Module	Element	Explanation	Exempt/Required
Site Design and TDM			1
4.4 Davidania	4.1.2 Circulation	Only required for site plan and zoning by-	Required
4.1 Development	and Access	law applications	Formula
Design	4.1.3 New Street Networks	Only required for plans of subdivision	Exempt
	4.2.1 Parking	Only required for site plan and zoning by-	Required
4.2 Parking	Supply	law applications	Required
4.3 Boundary Street	Заррту	All applications	Required
Design		/ III applications	Required
4.5 Transportation	All Elements	Only required when the development	Required
Demand		generates more than 60 person-trips	
Management			
Network Impact			
3.2 Background	All Elements	Only required when one or more other	Exempt
Network Travel		Network Impact Modules are triggered	
Demand			
3.3 Demand		Only required when one or more other	Exempt
Rationalization		Network Impact Modules are triggered	
	4.6.1 Adjacent	If the development meets all of the	Exempt
	Neighbourhoods	following criteria along the route(s) site	
		generated traffic is expected to utilize between an arterial road and the site's	
		access:	
		access.	
		Access to Collector or Local;	
		2. "Significant sensitive land use	
		presence" exists, where there is at	
		least two of the following adjacent to	
		the subject street segment:	
		 School (within 250m walking 	
		distance);	
4.6 Neighbourhood		Park;	
Traffic Calming		 Retirement / Older Adult Facility 	
		(i.e. long-term care and retirement	
		homes);	
		 Licenced Child Care Centre; 	
		Community Centre; or	
		• 50%, or greater, of adjacent	
		property along the route(s) is	
		occupied by residential	
		lands and a minimum of 10	
		occupied residential units are	
		present on the route.	
		Application is for Zoning By-Law Amendment or Draft Plan of	
		Subdivision;	
		Subulvision,	



Module	Element	Explanation	Exempt/Required
		 At least 75 site-generated auto trips; Site Trip Infiltration is expected. Site traffic will increase peak hour vehicle volumes along the route by 50% or more. 	
	4.7.1 Transit Route Capacity	Only required when the development generates more than 75 transit trips	Exempt
4.7 Transit	4.7.2 Transit Priority Requirements	Only required when the development generates more than 75 auto trips	Exempt
4.8 Network Concept		Only required when proposed development generates more than 200 person-trips during the peak hour in excess of equivalent volume permitted by established zoning	Exempt
4.9 Intersection	4.9.1 Intersection Control	Only required when the development generates more than 75 auto trips	Exempt
Design	4.9.2 Intersection Design	Only required when the development generates more than 75 auto trips	Exempt

6 Development Design

6.1 Design for Sustainable Modes

The proposed development is a residential building with a total of 190 bicycle parking spaces including six exterior bike spaces at grade and 184 underground bike parking spaces. A 1.8-metre sidewalk is proposed along both sides of the internal drive aisle to connect to the hard surface around the buildings and existing sidewalks along Lanark Avenue, and to the adjacent building pedestrian connection to Ellendale Crescent. Additionally, the internal sidewalks connect to Clearview Avenue via a 2.0-metre concrete sidewalk. Cyclists will access the underground bicycle parking via the garage ramp or internal elevators.

The existing and proposed sidewalks provide connections from the site to the nearby transit stops and the future Westboro LRT station.

The infrastructure TDM Checklist is provided in Appendix F.

6.2 Circulation and Access

Vehicle access to the underground parking is provided via the access on Clearview Avenue. Garbage facilities are located on the west side of the building and move-in trucks and garbage collection are expected to access the site via the western access on Lanark Avenue. Additionally, an access is proposed on Lanark Avenue to access the surface parking and provide the internal connection between Lanark Avenue and Ellendale Crescent.

The fire route is proposed from the access on Lanark Avenue to the island in front of the proposed building.

The garbage truck, move-in truck, and fire truck turning movements can be accommodated on site. The turning templates are provided in Appendix G.



7 Parking

7.1 Parking Supply

A total of 246 parking spaces are proposed to serve 210 Clearview Avenue, including 228 residential parking spaces and 18 visitor parking spaces. Among these parking spaces, a total of ten vehicle parking spaces are proposed to be located on the surface, 113 spaces on P1, and the remaining 123 spaces on P2.

While the site is located within Area X on Schedule 1A of the parking zoning bylaw, Staff have indicated that the proximity to Westboro Station applies and Section 103 will be discussed. According to the parking zoning by-law, No minimum parking requirement is noted for the site and a maximum parking ratio of 1.75 spaces per unit is permitted. The proposed residential vehicle parking ratio of 1.2 spaces per unit is below the ratio and meets the bylaw requirements.

The site provides 190 bicycle spaces, including six exterior and 184 underground. According to the site-specific zoning by-law requirement, the minimum bicycle requirement is 1.0 spaces per unit, totaling 187 spaces. The proposed bicycle parking exceeds the minimum bicycle parking requirement.

The existing building at 200 Clearview Avenue will reduce to 110 below grade parking spaces and a parking ratio of 0.49 spaces per unit. If additional parking is required, it may be shared with the proposed site.

8 Boundary Street Design

Table 14 summarizes the MMLOS analysis for the boundary streets of Lanark Avenue and Clearview Avenue. The existing and future conditions for both streets will be the same and are considered in one row. The boundary street analysis is based on the land-use designation of "within 300m of a school" due to the proximity of the Jules-Léger Centre. The MMLOS worksheets have been provided in Appendix H.

Table 14: Boundary Street MIVILOS Analysis									
Segment		Pedest	rian LOS	Bicyc	le LOS	Trans	it LOS	Truc	k LOS
Segme	ent	PLOS	Target	BLOS	Target	TLOS	Target	TrLOS	Target
Lanark Avenue	Ex/Fu	В	Α	В	D	D	D	N/A	N/A
Clearview Avenue	Ex	F	Α	В	_	N/A	N/A	N/A	NI/A
	Fu	В	Α	В	ע	IN/A	IN/A	IN/A	N/A

Table 14: Boundary Street MMLOS Analysis

Clearview Avenue does not meet the pedestrian LOS targets due to the lack of a sidewalk along the existing roadway. The additional of the sidewalk along the frontage, linking the internal site connections to Ellendale Crescent will improve the pedestrian LOS to B. If the roadway consistently operates under 30km/h, it would meet the target of A.

Lanark Avenue does not meet the pedestrian LOS target of A due to the boulevard not exceeding 2 metres in width. The target is set particularly high due to the proximity to the school; however, the available right-of-way is limited to support a widening of the boulevard. With the existing on-street parking, the buffer provided to the sidewalk is technically wider than the provided boulevard width, and no improvements are required.

9 Transportation Demand Management

9.1 Context for TDM

The mode shares used within the TIA represent a shift from auto modes to transit ridership with the future LRT station. Overall, the modal shares are likely to be achieved and supporting TDM measures should be provided.



The subject site is within the Richmond Road/ Westboro Secondary Plan and Richmond Road/ Westboro community design plan areas. The total bedroom count within the development is subject to the final unit breakdown and layout selections by purchasers. No age restrictions are noted.

9.2 Need and Opportunity

The subject site has been assumed to rely predominantly on transit ridership with proximity to the future LRT station, and those assumptions have been carried through the analysis. The increase in transit ridership is achievable.

9.3 TDM Program

The "suite of post occupancy TDM measures" has been summarized in the TDM checklists for the residential land uses. The checklist is provided in Appendix F. The key TDM measures recommended include:

- Display local area maps with walking and cycling routes, and transit route information and schedules at major entrances
- Provide lighting and landscaping along walking routes between building entrances and streets
- Provide a multimodal travel option information package to new residents
- Contract with providers to install on-site bikeshare (or other micromobility alternatives) and carshare spaces
- Unbundle parking cost from purchase or rental costs

10 Access Intersection Design

10.1 Location and Design of Access

The two existing accesses to the surface parking lot will be converted to an access to the underground parking from Clearview Avenue and the Lanark Avenue access will be to the loading area. A new loop will be created from the existing drive aisle from Ellendale Crescent to connect to Lanark Avenue at a new access. All accesses are proposed as two-way access. It is noted that two proposed accesses and one existing access for the adjacent building will be on Lanark Avenue. Although total accesses on Lanark Avenue will exceed the private approach by-law maximum number of private approaches permitted, the western proposed access is only for loading purposes, therefore the additional proposed access for loading is considered acceptable.

The access to underground parking on Clearview Avenue is 6.1 metres wide at the property line, and it meets the private approach by-law requirements of a minimum width of 2.4 metres and a maximum width of 9.0 metres. The access to the loading area on Lanark Avenue is 5.9 metres wide at the property line and 9.1 meters wide at the curb line. The general vehicle access on Lanark Avenue is 6.9 meters wide at the property line and 14.3 meters wide at the curb line. The widths of proposed accesses on Lanark Avenue comply with the private approach by-law maximum width requirement at the property line; however, it does not comply at the curb line due to the larger radii required to accommodate larger truck movements.

The distance between two accesses on Lanark Avenue at the curb line is 25.9 metres, and the distance between the general vehicle access on Lanark Avenue and the existing access for the adjacent building is 15.7 metres at the curb line. The distance between two accesses on Clearview Avenue at the curb line is 51.0 metres. All distances meet the private approach by-law minimum distance between a private approach and any other private approach.

The access to underground parking on Clearview Avenue is approximately 110 metres from the intersection with Ellendale Crescent, and the existing access to underground parking in the adjacent building is approximately 45 metres from the same intersection. The existing drive aisle on Ellendale Crescent for the adjacent building is



approximately 20 metres from the intersection with Clearview Avenue. On Lanark Avenue, the general vehicle access is approximately 75 metres from the intersection of Ellendale Crescent, and the existing access for the adjacent building is approximately 50 metres from the same intersection. All accesses exceed the minimum corner clearance of 20 meters for collector roads and 15 meters for local roads as indicated in the TAC.

According to Table 8.9.3 of the TAC Geometric Design Guidelines, for the apartment units between 100 and 200, the minimum throat length requirement is 15 metres for the collector road, and no requirement for the local road. The throat length for the access to underground parking on Clearview Avenue is 13 metres, and it is considered to be sufficient. The throat length for access to the loading area on Lanark Avenue is approximately 28.2 metres, and it meets the TAC requirement. The throat length for the general vehicle access on Lanark Avenue is 5.3 metres, and it does not meet the TAC requirement. As this access is provided for drop-off/pick-up purposes, low volumes are expected for the loop as the primary vehicle accesses are through the underground ramps on Clearview Avenue, the throat length for the access on Lanark Avenue is considered acceptable.

Accesses on Lanark Avenue will comply with the City of Ottawa standard drawing SC7.1.

As noted above, the existing parking lot access on Lanark Avenue will be converted to the access for the garbage and loading operations. The access is currently within the 3-metre buffer space from the adjacent property line as outlined within the Section 25(1)(p) of the Private Approach Bylaw. The existing bulb outs, that will be retained, will maintain a separation of over 12-metres from a possible new access on the adjacent property. This exceeds the 6-metre separation that would be provided through Section 25(i)(p) and is acceptable.

Additionally, the primary access to Lanark Avenue is 6.7m wide and complies with Zoning By-law Aisle and Driveway Provisions Section 107.

Overall the access are supported and the City should approve as proposed.

11 Summary of Improvements Indicated and Modifications Options

The following summarizes the analysis and results presented in this TIA report:

Proposed Site

- The proposed site includes 187 apartment units and a total of 228 residential vehicle parking spaces, 18 visitor parking spaces, and 190 bike parking spaces are proposed
- The existing surface parking lot of 100 parking spaces will be removed
- The two existing accesses to the surface parking lot will be converted to an access to the underground parking from Clearview Avenue and the Lanark Avenue access will be to the loading area
- A new loop will be created from the existing drive aisle from Ellendale Crescent to connect to Lanark Avenue at a new access
- The development is proposed to be completed as a single phase by 2027

TIA Screening and Exemptions

- The TIA Screening form indicated a full TIA was required due to trip generation
- The exemption review for the TIA did not require new street networks, background network travel demand, demand rationalization, neighbourhood traffic calming, transit review, network concept review, intersection control review or intersection design review



Existing Conditions

- Island Park Drive and Kichi Zibi Mikan Parkway are federally owned arterial roads, and Churchill Avenue south of Scott Street and Scott Street are City of Ottawa arterial roads within the study area
- Churchill Avenue between Scott Street and Lanark Avenue and Lanark Avenue are City of Ottawa collector roads, and Clearview Avenue is a local road within the study area
- Sidewalks are provided on both sides along Lanark Avenue, Churchill Avenue south of Lanark Avenue, Clearview Avenue between Ellendale Crescent and Latchford Road, and east of Island Park Drive, on the north side of Clearview Avenue between Latchford Road and Island Park Drive, and on the south side of Scott Street
- A pedestrian pathway extends south of Lanark Avenue between the 200 Lanark Avenue and 38 Metropole Private properties, and loops to Westboro Station
- Multi use pathways are present on the north side of Scott Street and another connects Lanark Avenue from the Beechgrove Avenue intersection to the Westboro Station
- Bike lanes are provided on both sides along Island Park Drive, and a cycle track is present on the south side of Scott Street
- Island Park Drive and Scott Street are cross-town bikeways and Kichi Zibi Mikan Parkway east of Island Park Drive is a NCC Pathway in the Transportation Master Plan Part 1 (2023)
- Within the study area, the intersection and segments have a total of four collisions during the 2018-2022 time period
- No further collision analysis is required within this study due to the low number of collisions in the vicinity
 of the site
- The Island Park Drive at Kichi Zibi Mikan Parkway intersection is over capacity and subject to queuing issues at the existing condition

Planned Conditions

- Westboro station, which is identified as one of the Confederation Line West extension new stations in the
 Stage 2 Light Rail Transit project, will be converted to accommodate LRT in 2026
- The bus-only eastbound lane on Scott Street from Clifton Road to Island Park Drive, and the westbound right-turn lane at Island Park Drive are part of the detour plan will be removed

Development Generated Travel Demand

- The proposed development is forecasted to produce 81 AM and 79 PM two-way people trips
- Of the forecasted people trips, 12 AM and 15 PM two-way trips will be vehicle trips based on 17% and 21% modal share target
- Of the forecasted trips, 5% are anticipated to travel to the north and west, 50% to the south, and 40% to the east

Development Design

- The proposed development is a residential building with a total of 190 bicycle parking spaces including six exterior bike spaces at grade and 184 underground bike parking spaces
- A 1.8-metre sidewalk is proposed along both sides of the internal drive aisle to connect to the hard surface around the buildings and existing sidewalks along Lanark Avenue, and to the adjacent building pedestrian connection to Ellendale Crescent



- The existing and proposed sidewalks provide connections from the site to the nearby transit stops and the Westboro station
- The fire route is proposed from the access on Lanark Avenue to the island in front of the proposed building
- The garbage truck, move-in truck, and fire truck turning movements can be accommodated on site

Parking

- A total of 246 parking spaces are proposed including 228 residential parking spaces and 18 visitor parking spaces as part of the new development
- The proposed residential and visitor vehicle parking spaces are in compliance with the maximum zoning by-law requirements
- The site provides 190 bicycle spaces, including six exterior and 184 underground
- The proposed bicycle parking exceeds the minimum site-specific zoning by-law requirement for bicycle
- The existing parking spaces retained are seven spaces less than the parking zoning by-law requirement

Boundary Street Design

- Clearview Avenue does not meet the pedestrian LOS targets in the existing conditions due to the lack of a sidewalk
- A sidewalk will be provided between the internal pedestrian connections and Ellendale Crescent and will increase the pedestrian LOS from F to B
- A consistent operating speed of 30 km/h or lower would meet the pedestrian LOS A
- Lanark Avenue does not meet the pedestrian MMLOS targets due to the boulevard width not exceeding 2 metres, and limited right-of-way prevents a boulevard to be constructed
- The existing on-street parking adjacent to the boulevard does provide additional buffer and no improvements are proposed

TDM

- Supportive TDM measures to be included within the proposed development should include:
 - Display local area maps with walking and cycling routes, and transit route information and schedules at major entrances
 - o Provide lighting and landscaping along walking routes between building entrances and streets
 - o Provide a multimodal travel option information package to new residents
 - Contract with providers to install on-site bikeshare (or other micromobility alternatives) and carshare spaces
 - Unbundle parking cost from purchase or rental costs

Access Intersection Design

- The two existing accesses to the surface parking lot will be converted to an access to the underground parking from Clearview Avenue and the Lanark Avenue access will be to the loading area
- A new loop will be created from the existing drive aisle from Ellendale Crescent to connect to Lanark Avenue at a new access
- Although total accesses on Lanark Avenue will exceed the private approach by-law maximum number of
 private approaches permitted, the western proposed access is only for loading purpose, therefore, the
 additional proposed access for loading is considered acceptable



- The access to underground parking on Clearview Avenue is 6.1 metres wide measured at the property line, and it meets the private approach by-law minimum and maximum width requirements
- The widths of proposed accesses on Lanark Avenue comply with the private approach by-law maximum width requirement at the property line; however, it does not comply at the curb line due to the larger radii required to accommodate larger truck movements
- All distances meet the private approach by-law minimum distance between a private approach and any other private approach
- All accesses exceed the minimum corner clearance indicated in the TAC
- Although the throat length for the general vehicle access on Lanark Avenue does not meet the TAC requirement, the throat length for the access on Lanark Avenue is considered acceptable given lower volumes are expected
- Accesses on Lanark Avenue will comply with the City of Ottawa standard drawing SC7.1
- The Lanark Avenue bulb-outs will provided greater clearance between the existing and future adjacent parcel accesses subject to the Private Approach Bylaw and the use of the existing access should be approved
- The accesses are compliant with Zoning By-law Aisle and Driveway Provisions Section 107

12 Conclusion

It is recommended that, from a transportation perspective, the proposed development applications proceed.

Prepared By:

Yu-Chu Chen

Transportation Engineering-Intern

Reviewed By:



Andrew Harte, P.Eng.
Senior Transportation Engineer

Sellior Transportation Engineer



Appendix A

TIA Screening Form and PM Certification Form





City of Ottawa 2023 Revisions to 2017 TIA Guidelines Step 1 - Screening Form

Date: 10-Sep-24
Project Number: 2024-030
Project Reference: 210 Clearview Avenue

1.1 Description of Proposed Development	
Municipal Address	210 Clearview Avenue
Description of Location	Ward 15. Rectangular parcel fronting Clearview Avenue and Lanark Avenue
Land Use Classification	Residential Fifth Density Zone (R5C[2909]S216)
Development Size	184 Residential Units
Accorde	One onto Clearview Avenue and two onto Lanark
Accesses	Avenue
Phase of Development	Single phase
Buildout Year	2027
TIA Requirement	Full TIA Required

1.2 Trip Generation Trigger	
Land Use Type	Multi-Family (High-Rise)
Development Size	184 Units
Trip Generation Trigger	Yes

1.3 Location Triggers	
Does the development propose a new driveway to a boundary street that is designated as part of the Transit Priority Network, Rapid Transit network or	No
Cross-Town Bikeways?	
Is the development in a Hub, a Protected Major Transit Station Area (PMTSA), or a Design Priority Area (DPA)?	No
Location Trigger	No

1.4. Safety Triggers		
Are posted speed limits on a boundary street 80 km/hr or greater?	No	
Are there any horizontal/vertical curvatures on a boundary street limits	No	
sight lines at a proposed driveway?	No	
Is the proposed driveway within the area of influence of an adjacent traffic		
signal or roundabout (i.e. within 300 m of intersection in rural conditions,	No	
or within 150 m of intersection in urban/ suburban conditions)?		
Is the proposed driveway within auxiliary lanes of an intersection?	No	
Does the proposed driveway make use of an existing median break that	No	
serves an existing site?	140	
Is there is a documented history of traffic operations or safety concerns on	Ne	
the boundary streets within 500 m of the development?	No	
Does the development include a drive-thru facility?	No	
Safety Trigger	No	



Certification Form for TIA Study PM

TIA Plan Reports

On April 14, 2022, the Province's Bill 109 received Royal Assent providing legislative direction to implement the More Homes for Everyone Act, 2022 aiming to increase the supply of a range of housing options to make housing more affordable. Revisions have been made to the TIA guidelines to comply with Bill 109 and streamline the process for applicants and staff.

Individuals submitting TIA reports will be responsible for all aspects of development-related transportation assessment and reporting, and undertaking such work, in accordance and compliance with the City of Ottawa's Official Plan, the Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines.

By submitting the attached TIA report (and any associated documents) and signing this document, the individual acknowledges that they meet the four criteria listed below.

CERTIFICATION

I have reviewed and have a sound understanding of the objectives, needs and requirements of the City of Ottawa's Official Plan, Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines; (Update effective July 2023)

I have a sound knowledge of industry standard practice with respect to the preparation of transportation impact assessment reports, including multi modal level of service review;

I have substantial experience (more than 5 years) in undertaking and delivering transportation impact studies (analysis, reporting and geometric design) with strong background knowledge in transportation planning, engineering or traffic operations; and

I am either a licensed or registered¹ professional in good standing, whose field of expertise

is either transportation engineering

or transportation planning.

¹ License of registration body that oversees the profession is required to have a code of conduct and ethics guidelines that will ensure appropriate conduct and representation for transportation planning and/or transportation engineering works.

City Of Ottawa Planning, Real Estate and Economic Development 110 Laurier Avenue West, 4th fl. Ottawa, ON K1P 1J1 Tel.: 613-580-2424

Tel.: 613-580-2424 Fax: 613-560-6006

Revision Date: June 2023

Dated at	this	day of	, 20
(City)			
Name :			
Professional title:			
Signature of individual certif	ier that s/he/they	meet the above criteria	
Office Contact Informatio	n (Please Print)		
Address:			
City / Postal Code:			
Telephone / Extension:			
Email Address:			
Stamp			

Revision Date: June 2023

A. J. HARTE 100149314

POVINCE OF ONTARIO

Appendix B

Turning Movement Counts





Project #24-348 - CGH Transportation

Intersection Count Report

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Municipality: Ottaw

Count Date: Wednesday, Aug 21, 2024

Site Code: 2434800001

Count Categories: Cars, Trucks, Bicycles, Pedestrians

Count Period: 06:30-09:30, 15:00-18:00

Weather: Clear

Comments:



Traffic Count Summary

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Site Code: 2434800001 Municipality: Ottawa Count Date: Aug 21, 2024

Island Park Dr - Traffic Summary													
	North Approach Totals						South Approach Totals						
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
Hour	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	Total
06:30 - 07:00	241	379	260	0	880	1	0	86	20	0	106	0	986
07:00 - 08:00	480	767	472	0	1719	0	0	219	87	0	306	1	2025
08:00 - 09:00	410	678	437	0	1525	0	1	272	154	0	427	1	1952
09:00 - 09:30	150	333	183	0	666	0	0	145	56	0	201	0	867
BREAK													
15:00 - 16:00	149	419	393	0	961	3	0	561	52	0	613	4	1574
16:00 - 17:00	133	448	403	0	984	1	0	496	28	0	524	0	1508
17:00 - 18:00	137	481	401	0	1019	3	0	526	21	0	547	2	1566
GRAND TOTAL	1700	3505	2549	0	7754	8	1	2305	418	0	2724	8	10478



Traffic Count Summary

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Site Code: 2434800001 Municipality: Ottawa Count Date: Aug 21, 2024

		Kich	ni Zib	i Mik	an Pk	wy -	Traff	ic Su	mma	ry			
		East	Appro	ach To	tals			West	Appro	oach T	otals		
		Include	s Cars, 1	rucks, B	icycles			Include	s Cars, 1	Trucks, B	icycles		
Hour	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	Total
06:30 - 07:00	41	79	19	0	139	2	69	154	3	0	226	2	365
07:00 - 08:00	92	183	68	0	343	5	204	564	16	0	784	6	1127
08:00 - 09:00	138	213	84	0	435	3	187	697	30	0	914	0	1349
09:00 - 09:30	51	85	32	1	169	0	77	217	22	0	316	2	485
					Е	REAK							
15:00 - 16:00	130	841	773	0	1744	5	346	230	20	0	596	4	2340
16:00 - 17:00	159	892	922	0	1973	0	332	172	17	0	521	2	2494
17:00 - 18:00	168	774	844	0	1786	4	352	212	19	0	583	1	2369
GRAND TOTAL	779	3067	2742	1	6589	19	1567	2246	127	0	3940	17	10529



Traffic Count Data

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

						Nor	rth A	pproa	ich -	Island	l Parl	(Dr			
		Cars	_		4	Ti	rucks	^		4	Bio	cycles	_		
			-+		4			-+	Total				-+		Total Peds
					2		0	_	2	-				-	1
123	186	108	0	417	0	0	1	0	1	0	0	0	0	0	0
115	186	115	0	416	1	1	0	0	2	0	0	0	0	0	0
102	190	118	0	410	2	0	0	0	2	0	0	0	0	0	0
117	207	127	0	451	1	0	0	0	1	0	0	0	0	0	0
139	183	111	0	433	3	0	1	0	4	0	0	0	0	0	0
103	174	110	0	387	1	0	0	0	1	0	0	0	0	0	0
126	185	120	0	431	0	0	0	0	0	0	0	0	0	0	0
98	173	126	0	397	1	1	0	0	2	0	0	0	0	0	0
80	145	81	0	306	1	0	0	0	1	0	0	0	0	0	0
73	165	99	0	337	0	0	0	0	0	0	0	0	0	0	0
77	168	84	0	329	0	0	0	0	0	0	0	0	0	0	0
1269	2155	1350	0	4774	12	2	2	0	16	0	0	0	0	0	1
	102 117 139 103 126 98 80 73	116 193 123 186 115 186 102 190 117 207 139 183 103 174 126 185 98 173 80 145 77 168	116 193 151 123 186 108 115 186 115 102 190 118 117 207 127 139 183 111 103 174 110 126 185 120 98 173 126 80 145 81 73 165 99 77 168 84	116 193 151 0 123 186 108 0 115 186 115 0 102 190 118 0 117 207 127 0 139 183 111 0 103 174 110 0 126 185 120 0 98 173 126 0 80 145 81 0 77 168 84 0	** **<	10 10 10 10 10 10 10 10	Cars Total ■	Cars Trucks 116 193 151 0 460 2 0 0 123 186 108 0 417 0 0 1 115 186 115 0 416 1 1 0 0 102 190 118 0 410 2 0 0 139 183 111 0 4351 1 0 0 139 183 111 0 433 3 0 1 103 174 110 0 387 1 0 0 126 185 120 0 431 0 0 0 98 173 126 0 397 1 1 0 80 145 81 0 306 1 0 0 73 165 99 0 337 0 0 0	Cars Trucks 116 193 151 0 450 2 0 0 0 123 186 108 0 417 0 0 1 0 115 186 115 0 416 1 1 0 0 102 190 118 0 410 2 0 0 0 117 207 127 0 451 1 0 0 0 139 183 111 0 433 3 0 1 0 103 174 110 0 387 1 0 0 0 126 185 120 0 431 0 0 0 0 98 173 126 0 397 1 1 0 0 80 145 81 0 306 1 0 0 0 73 165 99 0 337 0 0 0 0	Cars Trucks 116 193 151 0 460 2 0 0 0 2 123 186 108 0 417 0 0 1 0 1 115 186 115 0 416 1 1 0 0 2 102 190 118 0 410 2 0 0 0 2 117 207 127 0 451 1 0 0 0 0 2 139 183 111 0 433 3 0 1 0 4 103 174 110 0 387 1 0 0 0 1 126 185 120 0 431 0 0 0 0 0 98 173 126 0 397 1 1 0 0 0 0 <td>Trucks Trucks Total 116 193 151 0 460 2 0 0 0 2 0 123 186 108 0 417 0 0 1 0 1 0 115 186 115 0 416 1 1 0 0 2 0 102 190 118 0 410 2 0 0 0 2 0 117 207 127 0 451 1 0 0 0 1 0 118 111 0 433 3 0 1 0 4 0 126 185 120 0 431 0 0 0 1 0 126 185 120 0 431 0 0 0 0 0 126 185 120 0 431 0 0 0 0 0 127 188 18 0 306 1 0 0 0 0 138 173 126 0 397 1 1 0 0 2 0 139 183 173 126 0 397 1 1 0 0 0 0 0 140 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16</td> <td>Cars Trucks Bit 116 193 151 0 460 2 0 0 0 2 0 0 123 186 108 0 417 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0</td> <td> 1</td> <td> Cars Trucks Bicycles Trucks T</td> <td> Cars</td>	Trucks Trucks Total 116 193 151 0 460 2 0 0 0 2 0 123 186 108 0 417 0 0 1 0 1 0 115 186 115 0 416 1 1 0 0 2 0 102 190 118 0 410 2 0 0 0 2 0 117 207 127 0 451 1 0 0 0 1 0 118 111 0 433 3 0 1 0 4 0 126 185 120 0 431 0 0 0 1 0 126 185 120 0 431 0 0 0 0 0 126 185 120 0 431 0 0 0 0 0 127 188 18 0 306 1 0 0 0 0 138 173 126 0 397 1 1 0 0 2 0 139 183 173 126 0 397 1 1 0 0 0 0 0 140 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Cars Trucks Bit 116 193 151 0 460 2 0 0 0 2 0 0 123 186 108 0 417 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0	1	Cars Trucks Bicycles Trucks T	Cars



Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Site Code: 2434800001 Municipality: Ottawa Count Date: Aug 21, 2024

							Noi	rth A	pproa	ach -	Island	l Parl	k Dr			
			Cars				T	rucks				Bi	cycles			
Start Time	4	1	•	<u>1</u>	Total	4	1	•	<u>1</u>	Total	-	1	•	<u>n</u>	Total	Total Peds
15:00	24	111	81	0	216	1	0	1	0	2	0	0	0	0	0	1
15:15	41	103	108	0	252	3	1	0	0	4	0	0	0	0	0	1
15:30	32	106	109	0	247	0	2	0	0	2	0	0	0	0	0	1
15:45	48	95	94	0	237	0	1	0	0	1	0	0	0	0	0	0
16:00	28	97	97	0	222	0	2	0	0	2	0	0	0	0	0	0
16:15	37	125	90	0	252	2	0	1	0	3	0	0	0	0	0	0
16:30	38	107	105	0	250	1	1	0	0	2	0	0	0	0	0	0
16:45	26	116	109	0	251	1	0	1	0	2	0	0	0	0	0	1
17:00	35	113	97	0	245	1	0	1	0	2	0	0	0	0	0	1
17:15	25	112	90	0	227	0	0	0	0	0	0	0	0	0	0	0
17:30	38	121	104	0	263	1	0	0	0	1	0	0	0	0	0	0
17:45	37	135	109	0	281	0	0	0	0	0	0	0	0	0	0	2
SUBTOTAL	409	1341	1193	0	2943	10	7	4	0	21	0	0	0	0	0	7
GRAND TOTAL	1678	3496	2543	0	7717	22	9	6	0	37	0	0	0	0	0	8



Traffic Count Data

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

							Sou	ith A	pproa	ach -	Island	l Parl	(Dr			
			Cars				Ti	rucks				Bi	cycles			
Start Time	4	1		J	Total	4	1		J	Total	4	1		J	Total	Total Peds
06:30	0	47	7	0	54	0	0	0	0	0	0	1	0	0	1	(
06:45	0	38	13	0	51	0	0	0	0	0	0	0	0	0	0	(
07:00	0	50	17	0	67	0	1	0	0	1	0	0	0	0	0	(
07:15	0	56	24	0	80	0	1	0	0	1	0	0	0	0	0	
07:30	0	59	18	0	77	0	0	0	0	0	0	1	0	0	1	
07:45	0	51	28	0	79	0	0	0	0	0	0	0	0	0	0	
08:00	1	65	32	0	98	0	1	0	0	1	0	0	0	0	0	
08:15	0	60	35	0	95	0	0	0	0	0	0	1	0	0	1	
08:30	0	67	37	0	104	0	0	0	0	0	0	0	0	0	0	
08:45	0	77	50	0	127	0	1	0	0	1	0	0	0	0	0	
09:00	0	80	29	0	109	0	1	0	0	1	0	0	0	0	0	
09:15	0	64	27	0	91	0	0	0	0	0	0	0	0	0	0	
SUBTOTAL	1	714	317	0	1032	0	5	0	0	5	0	3	0	0	3	7



Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Site Code: 2434800001 Municipality: Ottawa Count Date: Aug 21, 2024

Start Time 15:00 0 15:15 0 15:30 0 15:45 0 16:00 0 16:15 0 16:30 0 16:45 0 17:00 0	150 136 140 128 126	13 14 11 13	0 0 0	Total 163 150 151	0	0	rucks	ŋ	Total	4	Bi	cycles	0		
15:00 0 15:15 0 15:30 0 15:45 0 16:00 0 16:15 0 16:30 0 16:45 0	136 140 128	14 11 13	0	163 150	0		1		Total	- 44	•	-	\mathbf{a}		
15:15 0 15:30 0 15:45 0 16:00 0 16:15 0 16:30 0 16:45 0	136 140 128	14 11 13	0	150	-		1						-+	Total	Total Peds
15:30 0 15:45 0 16:00 0 16:15 0 16:30 0 16:45 0	140 128	11 13	0		0			0	1	0	4	0	0	4	0
15:45 0 16:00 0 16:15 0 16:30 0 16:45 0	128	13		151		0	0	0	0	0	1	0	0	1	0
16:00 0 16:15 0 16:30 0 16:45 0			0		0	0	0	0	0	0	0	0	0	0	3
16:15 0 16:30 0 16:45 0	126		U	141	0	0	0	0	0	0	2	0	0	2	1
16:30 0 16:45 0		5	0	131	0	0	0	0	0	0	2	0	0	2	0
16:45 0	124	9	0	133	0	0	0	0	0	0	0	0	0	0	0
101.15	117	7	0	124	0	0	0	0	0	0	2	0	0	2	0
47.00	122	7	0	129	0	0	0	0	0	0	3	0	0	3	0
17:00 0	125	5	0	130	0	0	0	0	0	0	1	0	0	1	1
17:15 0	130	6	0	136	0	0	0	0	0	0	2	0	0	2	0
17:30 0	128	5	0	133	0	0	0	0	0	0	0	0	0	0	1
17:45 0	138	5	0	143	0	1	0	0	1	0	1	0	0	1	0
SUBTOTAL 0	1564	100	0	1664	0	1	1	0	2	0	18	0	0	18	6
GRAND TOTAL 1 2	2278	417	0	2696	0	6	1	0	7	0	21	0	0	21	8



Traffic Count Data

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

						Ea	ist A	ppro	ach -	Kich	Zibi N	Mikar	ı Pkv	vy		
			Cars				Ti	rucks				Bi	cycles			
Start Time	4	1	•	1	Total	4	1	•	1	Total	4	1	•	1	Total	Total Peds
06:30	21	41	8	0	70	0	0	1	0	1	0	0	0	0	0	Ž
06:45	20	38	8	0	66	0	0	2	0	2	0	0	0	0	0	(
07:00	18	30	15	0	63	0	1	0	0	1	0	0	0	0	0	1
07:15	35	54	21	0	110	0	1	2	0	3	0	0	0	0	0	
07:30	21	43	16	0	80	0	1	1	0	2	0	0	0	0	0	
07:45	18	51	12	0	81	0	2	1	0	3	0	0	0	0	0	
08:00	24	48	15	0	87	0	0	1	0	1	0	0	0	0	0	
08:15	32	51	22	0	105	0	0	1	0	1	0	0	0	0	0	
08:30	40	59	23	0	122	0	0	1	0	1	0	0	0	0	0	
08:45	40	55	20	0	115	2	0	1	0	3	0	0	0	0	0	
09:00	24	51	19	0	94	0	0	1	0	1	0	0	0	0	0	
09:15	27	33	12	1	73	0	1	0	0	1	0	0	0	0	0	
SUBTOTAL	320	554	191	1	1066	2	6	12	0	20	0	0	0	0	0	10



Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Site Code: 2434800001 Municipality: Ottawa Count Date: Aug 21, 2024

						F:	act A	nnro	ach -	Kich	i Zibi I	Mikar	. Dkv	w		
									acii -	MICH	LIVI			y		
			Cars				T	rucks				Bi	cycles			
Start Time	4	1		J	Total	4	1	-	J	Total	4	1	-	J	Total	Total Peds
15:00	26	179	142	0	347	0	0	3	0	3	0	0	0	0	0	(
15:15	37	187	196	0	420	1	0	- 1	0	2	0	0	0	0	0	2
15:30	33	248	227	0	508	2	0	1	0	3	0	0	0	0	0	
15:45	31	225	203	0	459	0	2	0	0	2	0	0	0	0	0	C
16:00	33	220	223	0	476	0	0	0	0	0	0	0	0	0	0	
16:15	41	235	236	0	512	0	0	1	0	1	0	0	0	0	0	0
16:30	41	208	201	0	450	0	1	2	0	3	0	0	0	0	0	
16:45	44	228	258	0	530	0	0	1	0	1	0	0	0	0	0	0
17:00	45	207	254	0	506	0	0	1	0	1	0	0	0	0	0	1
17:15	35	209	214	0	458	0	1	2	0	3	0	0	0	0	0	2
17:30	47	225	205	0	477	0	0	1	0	1	0	0	0	0	0	
17:45	41	132	166		339			- 1		- 1			0			
SUBTOTAL	454	2503	2525	0	5482	3	4	14	0	21	0	0	0	0	0	9
GRAND TOTAL	774	3057	2716	1	6548	5	10	26	0	41	0	0	0	0	0	19



Traffic Count Data

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

						W	est A	ppro	ach -	Kich	i Zibi I	Mika	n Pk	wy		
			Cars				Т	rucks				Bi	cycles			
Start Time	4	1		J	Total	4	1	-	J	Total	4	1	-	J	Total	Total Peds
06:30	28	53	0	0	81	0	0	0	0	0	0	0	0	0	0	2
06:45	41	101	3	0	145	0	0	0	0	0	0	0	0	0	0	0
07:00	35	94	1	0	130	0	0	0	0	0	0	0	0	0	0	2
07:15	53	141	3	0	197	0	0	0	0	0	0	0	0	0	0	2
07:30	69	128	5	0	202	0	2	0	0	2	0	0	0	0	0	1
07:45	47	199	7	0	253	0	0	0	0	0	0	0	0	0	0	1
08:00	41	197	4	0	242	0	0	0	0	0	0	0	0	0	0	0
08:15	48	152	5	0	205	0	1	0	0	1	0	0	0	0	0	0
08:30	51	171	8	0	230	1	0	0	0	1	0	0	0	0	0	0
08:45	46	175	13	0	234	0	1	0	0	1	0	0	0	0	0	0
09:00	41	125	12	0	178	2	1	0	0	3	0	0	0	0	0	1
09:15	33	90	10	0	133	1	1	0	0	2	0	0	0	0	0	1
SUBTOTAL	533	1626	71	0	2230	4	6	0	0	10	0	0	0	0	0	10



Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Aug 21, 2024

2434800001 Site Code: Municipality: Ottawa

						W	est A	ppro	ach -	Kich	i Zibi I	Mika	n Pk	Νy		
			Cars				T	rucks				Bi	cycles			
Start Time	4	1	•	1	Total	4	1	•	1	Total	4	1	•	J	Total	Total Peds
15:00	86	73	4	0	163	0	1	0	0	1	0	0	0	0	0	2
15:15	91	53	6	0	150	1	0	0	0	1	0	0	0	0	0	1
15:30	85	54	5	0	144	2	0	0	0	2	0	0	0	0	0	1
15:45	81	49	5	0	135	0	0	0	0	0	0	0	0	0	0	0
16:00	86	40	5	0	131	1	1	0	0	2	0	0	0	0	0	0
16:15	78	43	4	0	125	1	0	0	0	1	0	0	0	0	0	1
16:30	87	49	4	0	140	0	1	0	0	1	0	0	0	0	0	0
16:45	79	38	4	0	121	0	0	0	0	0	0	0	0	0	0	1
17:00	90	34	6	0	130	0	0	0	0	0	0	0	0	0	0	1
17:15	93	65	7	0	165	0	0	0	0	0	0	0	0	0	0	0
17:30	77	51	2	0	130	0	0	0	0	0	0	0	0	0	0	0
17:45	92	62	4	0	158	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	1025	611	56	0	1692	5	3	0	0	8	0	0	0	0	0	7
GRAND TOTAL	1558	2237	127	0	3922	9	9	0	0	18	0	0	0	0	0	17

Count Date:



Peak Hour Diagram

Specified Period One Hour Peak

06:30:00 From: 07:45:00 09:30:00 08:45:00 To:

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Site Code: 2434800001

Count Date: Aug 21, 2024 Weather conditions:

Clear

** Signalized Intersection **

Major Road: Kichi Zibi Mikan Pkwy runs E/W

North Approach Out In Total 7 6 13 0 1 1 1655 509 2164

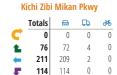




Kichi Zibi Mikan Pkwy

	Totals		₽	₫ %
7	0	0	0	0
4	188	187	1	0
\rightarrow	720	719	1	0
4	24	24	0	0





Wes	t Appr	oach
Out	In	Total

	Out	In	Total
	930	677	1607
۵	2	3	5
₩	0	0	0
	932	680	1612

	4	1	P	J
Totals	1	245	132	0
	1	243	132	0
₽	0	1	0	0
₫6	0	1	0	0
	Islan	d Park	Dr	

Peds: 2

	Sout	h Appı	roach
	Out	In	Total
	376	853	1229
₽	1	1	2
₫%	1	0	1
	378	854	1232

📾 - Cars

🚨 - Trucks

♣ - Bicycles

Comments



Peak Hour Summary

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

 Site Code:
 2434800001

 Count Date:
 Aug 21, 2024

 Period:
 06:30 - 09:30

07:45																										
Start Time 1										Pea	ık Ho	our E	Data	(07:4	45 - 1	08:4	5)									
Start Time 1				danah A												F A						W A				
07-45 142 183 112 0 0 437 0 51 28 0 1 79 18 53 13 0 3 84 47 199 7 0 1 25				Island	Park Di	r r			3	Island	Park D	n r			Kich	i Zibi N	Aikan P	kwy			Kich	i Zibi N	Aikan P	n kwy		Total Vehicl
08:00 004 174 110 0 0 388 1 66 32 0 0 99 24 48 16 0 0 88 41 197 4 0 0 0 20 08:00 09 174 126 0 0 431 0 61 35 0 1 95 32 51 23 0 2 106 48 153 5 0 0 2 2 2 2 2 2 2 2	Start Time	4	1	•	1	Peds	Total	4	1	P	1	Peds	Total	4	1	P	1	Peds	Total	4	1	P	1	Peds	Total	es
08:30 99 174 126 0 0 0 431 0 61 35 0 1 90 104 40 59 24 0 1 123 52 171 8 0 0 236	07:45	142	183	112	0	0	437	0	51	28	0	1	79	18	53	13	0	3	84	47	199	7	0	1	253	853
Care 466 715 467 0 0 0 0 0 0 0 0 0					0	0		1			0	0											0	0	242	817
Grand												1						2							206	839
Totals % 14 213 139 0 1655 1 245 132 0 2 378 114 211 76 0 6 401 188 720 24 0 1 93	08:30	99	174	126	0	0	399	0	67	37	0	0	104	40	59	24	0	1	123	52	171	8	0	0	231	857
Approach 28.5 43.3 28.3 0 0.3 64.8 34.9 0 28.4 52.6 19 0 20.2 77.3 2.6 0 Totals % 14 21.3 13.9 0 49.2 0 7.3 3.9 0 11.2 3.4 6.3 2.3 0 11.9 5.6 21.4 0.7 0 27. PHF 0.83 0.97 0.93 0 0.95 0.25 0.91 0.89 0 0.91 0.71 0.89 0.79 0 0.82 0.9 0.9 0.75 0 0.5 Cars 466 715 467 0 1648 1 243 132 0 376 114 209 72 0 395 187 719 24 0 93 % Cars 98.9 99.9 99.8 0 99.6 100 99.2 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 99.5 100 0 0 99.5 100 0 0 99.5 100 0 0 99.5 100 0 0 99.5 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																										
Totals % 1 21.3 13.9 0 49.2 0 7.3 3.9 0 11.2 3.4 6.3 2.3 0 11.9 5.6 21.4 0.7 0 2.7 PHF 0.83 0.97 0.93 0 0.95 0.25 0.91 0.89 0 0.91 0.71 0.89 0.79 0 0.82 0.9 0.9 0.75 0 0.5 Cars 466 715 467 0 1648 1 243 132 0 376 114 209 72 0 395 187 719 24 0 93 % Cars 98.9 99.9 99.8 0 99.6 100 99.2 100 0 99.5 100 99.1 94.7 0 98.5 99.5 99.9 100 0 99.6 Trucks 5 1 1 0 7 0 1 0 0 1 0 0 1 0 0 8.5 0 0 5.5 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total	471	716	468	0	0	1655	1	245	132	0	2	378	114	211	76	0	6	401	188	720	24	0	1	932	3366
PHF 0.83 0.97 0.93 0 0.95 0.25 0.91 0.89 0 0.91 0.71 0.89 0.79 0 0.82 0.9 0.9 0.75 0 0.5 Cars 466 715 467 0 1648 1 243 132 0 376 114 209 72 0 395 187 719 24 0 93 95 99 99.5 99.5 99.5 100 0 99.5 100 99.1 94.7 0 985 99.9 99.9 100 0 99.5 100 99.1 94.7 0 985 99.9 99.0 0 0 0 99.1 94.7 0 985 99.9 90.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 99.5 99.9 90.0 0 0 0 0 0	Approach %	28.5	43.3	28.3	0		-	0.3	64.8	34.9	0		-	28.4	52.6	19	0		-	20.2	77.3	2.6	0		-	
Cars 466 715 467 0 1648 1 243 132 0 376 114 209 72 0 395 187 719 24 0 93 % Cars 98.9 99.9 99.8 0 99.6 100 99.2 100 0 99.5 100 99.1 94.7 0 98.5 99.5 99.9 100 0 99. Trucks 5 1 1 0 7 0 1 0 0 1 0 0 1 0 2 4 0 6 1 1 0 0 2 % Trucks 1.1 0.1 0.2 0 0.4 0 0.4 0 0 0.3 0 0.9 53 0 15 0.5 0.1 0 0 0 % Trucks 1.1 0.1 0.2 0 0.4 0 0.4 0 0 0.3 0 0.9 53 0 15 0.5 0.1 0 0 0 % Trucks 1.1 0.1 0.2 0 0.4 0 0.4 0 0 0.3 0 0.9 53 0 15 0.5 0.1 0 0 0 % Trucks 1.1 0.1 0.2 0 0.4 0 0.4 0 0 0.3 0 0.9 53 0 15 0.5 0.1 0 0 0 % Trucks 1.1 0.1 0.2 0 0.4 0 0.4 0 0 0.3 0 0.9 53 0 15 0.5 0.1 0 0 0 % Trucks 1.1 0.1 0.2 0 0.4 0 0.4 0 0 0.3 0 0.9 53 0 0.9	Totals %	14	21.3	13.9	0		49.2	0	7.3	3.9	0		11.2	3.4	6.3	2.3	0		11.9	5.6	21.4	0.7	0		27.7	
Kars 98,9 99,9 99,8 0 99,6 100 99,2 100 0 99,5 14,7 0 98,5 99,5 99,9 100 0 99,7 Trucks 5 1 1 0 7 0 1 0 0 4 0 6 1 1 0	PHF	0.83	0.97	0.93	0		0.95	0.25	0.91	0.89	0		0.91	0.71	0.89	0.79	0		0.82	0.9	0.9	0.75	0		0.92	0.98
Trucks 5 1 1 0 7 0 1 0 0 1 0 2 4 0 6 1 1 0 0 % Trucks 1.1 0.1 0.2 0 0.4 0 0.0 0	Cars	466	715	467	0		1648	1	243	132	0		376	114	209	72	0		395	187	719	24	0		930	3349
	% Cars	98.9	99.9	99.8	0		99.6	100	99.2	100	0		99.5	100	99.1	94.7	0		98.5	99.5	99.9	100	0		99.8	99.5
Bicycles 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0			- 1				,	-						-						1					2	16
														-											0.2	0.5
																										1
		0	0	0	0		0	0	0.4	0	0		0.3	0	0	0	0		0	0	0	0	0		0	0
																									-	9
% Peds 0 - 22.2 - 66.7 - 11.1 -	% Peds					U	-					22.2	-					66./	-					11.1	-	



Peak Hour Diagram

Specified Period One Hour Peak

From: 15:00:00 From: 16:15:00 To: 18:00:00 To: 17:15:00

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

Site Code: 2434800001

Count Date: Aug 21, 2024

Weather conditions:

ons: Clear

** Signalized Intersection **

Major Road: Kichi Zibi Mikan Pkwy runs E/W

North Approach Out In Total ⊕ 998 1771 2769 ⊕ 9 6 15 № 0 6 6 1007 1783 2790





Kichi Zibi Mikan Pkwy

	Totals			₫6
7	0	0	0	0
4	335	334	1	0
=	165	334 164	1	0
7	18	18	0	0



Peds: 1



West Approach

	Out	In	Total
	516	1279	1795
₽	2	4	6
₩	0	0	0
	518	1283	1801



	Sout	h Appı	roach
	Out	In	Total
	516	650	1166
₽	0	1	1
₫6	6	0	6
	522	651	1173

📾 - Cars



♣ - Bicycles

Comments



Peak Hour Summary

Intersection: Island Park Dr & Kichi Zibi Mikan Pkwy

 Site Code:
 2434800001

 Count Date:
 Aug 21, 2024

 Period:
 15:00 - 18:00

		1	lorth A Island	pproac Park D	th r			9	outh A Island	ipproac Park Di	h r			Kich	East Ap i Zibi N	oproaci Aikan F	n Pkwy			۱ Kich	Nest A i Zibi N	pproac Aikan F	h kwy		Tota Vehic
Start Time	4	1	ø	J	Peds	Total	4	1	ø	J	Peds	Total	4	1	•	J	Peds	Total	4	1	•	J	Peds	Total	es
16:15	39	125	91	0	0	255	0	124	9	0	0	133	41	235	237	0	0	513	79	43	4	0	1	126	1027
16:30	39	108	105	0	0	252	0	119	7	0	0	126	41	209	203	0	0	453	87	50	4	0	0	141	972
16:45	27	116	110	0	- 1	253	0	125	7	0	0	132	44	228	259	0	0	531	79	38	4	0	- 1	121	1037
17:00	36	113	98	0	- 1	247	0	126	5	0	- 1	131	45	207	255	0	- 1	507	90	34	6	0	- 1	130	1015
Grand Total	141	462	404	0	2	1007	0	494	28	0		522	171	879	954	0		2004	335	165	18	0	3	518	4051
Approach %	14	45.9	40.1	0		-	0	94.6	5.4	0		-	8.5	43.9	47.6	0		-	64.7	31.9	3.5	0		-	
Fotals %	3.5	11.4	10	0		24.9	0	12.2	0.7	0		12.9	4.2	21.7	23.5	0		49.5	8.3	4.1	0.4	0		12.8	
PHF	0.9	0.92	0.92	0		0.99	0	0.98	0.78	0		0.98	0.95	0.94	0.92	0		0.94	0.93	0.83	0.75	0		0.92	0.98
Cars	136	461	401	0		998	0	488	28	0		516	171	878	949	0		1998	334	164	18	0		516	4028
% Cars	96.5	99.8	99.3	0		99.1	0	98.8	100	0		98.9	100	99.9	99.5	0		99.7	99.7	99.4	100	0		99.6	99.4
Trucks	5	1	3	0		9	0	0	0	0		0	0	1	5	0		6	-1	1	0	0		2	17
% Trucks	3.5	0.2	0.7	0		0.9	0	0	0	0		0	0	0.1	0.5	0		0.3	0.3	0.6	0	0		0.4	0.4
Bicycles	0	0	0	0		0	0	6	0	0		6	0	0	0	0		0	0	0	0	0		0	6
Bicycles	0	0	0	0		0	0	1.2	0	0		1.1	0	0	0	0		0	0	0	0	0		0	0.1
Peds					2	-					1	-					1	-					3	-	7
% Peds					28.6	-					14.3	-					14.3	-					42.9	-	



Transportation Services - Traffic Services

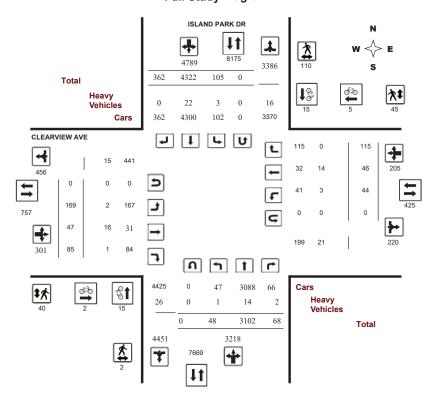
Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision

Full Study Diagram



May 3, 2024 Page 1 of 8



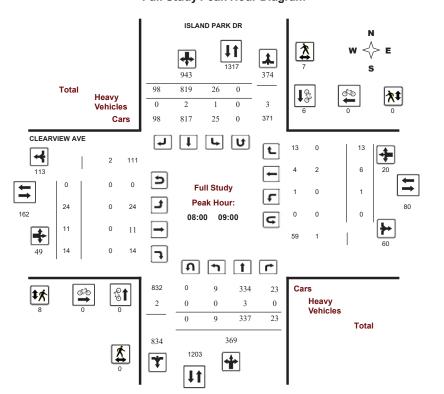
Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision

Full Study Peak Hour Diagram



May 3, 2024 Page 2 of 8



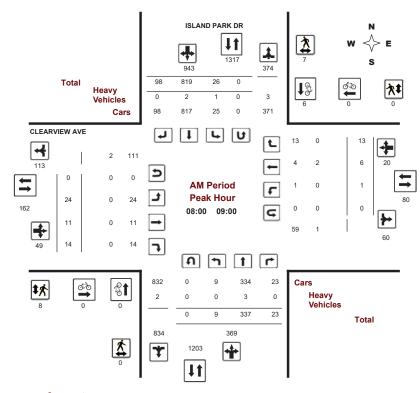
Transportation Services - Traffic Services

Turning Movement Count - Peak Hour Diagram

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision



Comments:

2024-May-03 Page 1 of 3

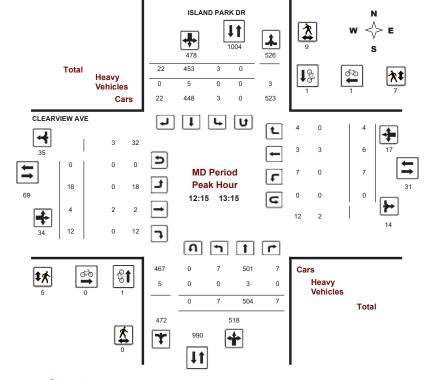


Turning Movement Count - Peak Hour Diagram

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision



Comments:

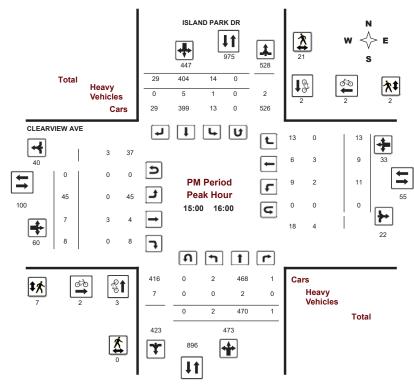


Transportation Services - Traffic Services

Turning Movement Count - Peak Hour Diagram CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision



Comments:



Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date: Tuesday, March 21, 2023
 WO No:
 40857

 Start Time: 07:00
 Device:
 Miovision

Full Study Summary (8 HR Standard)

Survey Date: Tuesday, March 21, 2023 Total Observed U-Turns

Northbound: 0 Southbound: 0 1.00

AADT Factor

								Eastbou	nd: ()		West	bound:	0						
		- 1	ISLAN	ID PAF	RK DR							CLEA	RVIE	V AVE					
	No	rthbou	nd		So	uthbou	ınd			Е	astbou	nd		V	/estbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	6	283	3	292	8	758	58	824	1116	12	3	7	22	1	1	4	6	28	1144
08:00 09:00	9	337	23	369	26	819	98	943	1312	24	11	14	49	1	6	13	20	69	1381
09:00 10:00	10	336	26	372	11	554	50	615	987	18	9	10	37	9	10	13	32	69	1056
11:30 12:30	7	478	10	495	7	427	26	460	955	16	3	12	31	9	3	5	17	48	1003
12:30 13:30	9	503	4	516	5	429	23	457	973	18	4	10	32	4	4	5	13	45	1018
15:00 16:00	2	470	1	473	14	404	29	447	920	45	7	8	60	11	9	13	33	93	1013
16:00 17:00	3	339	0	342	13	483	31	527	869	22	5	7	34	4	5	19	28	62	931
17:00 18:00	2	356	1	359	21	448	47	516	875	14	5	17	36	5	8	43	56	92	967
Sub Total	48	3102	68	3218	105	4322	362	4789	8007	169	47	85	301	44	46	115	205	506	8513
U Turns				0				0	0				0				0	0	0
Total	48	3102	68	3218	105	4322	362	4789	8007	169	47	85	301	44	46	115	205	506	8513
EQ 12Hr	67	4312	95	4473	146	6008	503	6657	11130	235	65	118	418	61	64	160	285	703	11833
Note: These v	alues a	re calcul	lated by	/ multiply	ing the	totals b	y the a	ppropria	te expans	ion fact	or.			1.39					
AVG 12Hr	67	4312	95	4473	146	7870	659	6657	11130	235	65	118	418	61	64	160	285	703	11833
Note: These v	olumes	are calc	culated	by multip	olying t	he Equiv	alent 1	2 hr. tota	als by the	AADT 1	actor.			1.00					
AVG 24Hr	88	5649	124	5860	191	10310	863	8721	14580	308	85	155	548	80	84	210	373	921	15501

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

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

Note: U-Turns are included in Totals.



Transportation Services - Traffic Services

Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision

Full Study 15 Minute Increments

ISLAND PARK DR CLEARVIEW AVE

Time Period Time Period Time Tim		N	orthbo	und		Sc	outhbou	nd			E	astbour	nd		We	estbour	nd			
15.45	Time Period	LT	ST	RT		LT	ST	RT			LT	ST	RT	E TOT	LT	ST	RT			
16:00 16:15 0 0 84 0 84 2 104 8 114 198 2 1 1 2 5 0 0 0 1 1 1 6 204 16:16 16:30 1 95 0 96 3 128 6 137 233 8 1 2 2 11 2 33 3 8 8 19 252 16:30 16:45 1 86 0 87 1 119 10 130 217 7 0 2 9 1 1 1 6 8 17 17:45 17:30 0 82 0 82 8 119 12 139 221 4 0 5 9 1 3 10 14 23 244 17:30 17:45 1 91 0 92 4 122 18 144 236 4 0 2 6 1 1 1 7 9 15 251 17:45 18:00 1 96 1 98 6 110 8 124 222 5 3 3 4 12 1 3 13 17 29 251 17:45 16:30 1 113 1 115 4 128 6 138 253 25 1 4 30 0 4 1 1 5 35 258 09:00 09:16 1 82 17 100 6 154 22 182 282 4 5 1 0 6 4 5 15 25 307 16:45 17:00 1 74 0 75 7 132 7 146 221 5 3 1 9 1 1 9 1 1 9 1 1 20 241 17:00 17:15 0 87 0 87 0 87 3 97 9 109 196 1 2 6 9 2 1 1 3 16 6 2 221 07:00 07:15 0 87 0 87 0 87 3 97 9 109 196 1 2 6 9 2 1 1 3 16 6 2 5 221 07:15 07:30 3 7 0 0 73 0 220 19 239 312 4 1 0 0 5 0 1 1 2 0 0 1 1 1 2 7 319 07:30 07:45 2 88 6 96 6 2 70 2 190 13 205 275 1 0 1 2 0 0 1 1 2 0 0 1 1 1 2 7 319 07:30 07:45 2 88 6 96 6 2 70 2 190 13 205 275 1 0 1 2 0 0 1 1 1 2 2 7 319 07:30 07:45 2 88 6 96 6 2 16 24 70 2 190 13 205 275 1 0 1 2 0 0 1 1 1 2 2 7 319 07:30 07:45 2 88 6 96 6 2 16 2 17 2 16 194 267 4 1 3 8 0 0 0 2 2 2 10 277 08:00 08:15 3 92 4 99 5 191 20 216 315 6 2 1 9 0 1 1 1 2 5 8 18 08:30 08:45 1 88 5 7 4 11 207 29 247 321 8 4 4 16 0 0 3 3 4 7 2 3 344 11:35 18:30 0 1 18 2 17 1 1 20 2 266 3 3 8 8 1 9 2 4 1 1 3 1 1 1 2 2 7 349 08:30 11:45 2 19 2 13 2 2 106 8 116 239 3 0 0 0 3 2 1 1 1 2 4 1 2 4 1 3 3 8 3 6 1 1 2 2 7 2 7 2 7 1 1 1 2 2 7 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	15:30 15:45	0	104	0	104	4	98	10	112	216	8	2	2	12	0	0	3	3	15	231
16:15 16:30 1 95 0 96 3 128 6 137 233 8 1 2 11 2 3 3 8 19 252 16:30 16:45 1 86 0 87 1 119 10 130 217 7 0 2 9 1 1 6 8 17 234 17:30 17:45 1 91 0 92 4 122 18 144 236 4 0 2 6 1 1 7 9 15 251 17:45 18:00 1 96 1 98 6 110 8 124 222 5 3 4 12 1 3 13 17 29 251 15:45 18:20 1 113 1 115 4 128 6 138 253 25 1 4 </td <td>15:45 16:00</td> <td>0</td> <td>100</td> <td>0</td> <td>100</td> <td>4</td> <td>93</td> <td>5</td> <td>102</td> <td>202</td> <td>4</td> <td>2</td> <td>0</td> <td>6</td> <td>8</td> <td>5</td> <td>6</td> <td>19</td> <td>25</td> <td>227</td>	15:45 16:00	0	100	0	100	4	93	5	102	202	4	2	0	6	8	5	6	19	25	227
16:30 16:45 1 86 0 87 1 119 10 130 217 7 0 2 9 1 1 6 8 177 234 17:15 17:30 0 82 0 82 8 119 12 139 221 4 0 5 9 1 3 10 14 23 244 17:30 17:45 18:00 1 96 6 110 8 124 222 5 3 4 12 1 3 13 17 7 9 15 251 1 1 96 1 98 6 110 8 124 222 25 3 4 12 1 7 16 6 1138 253 25 1 4 30 0 4 1 5 35 288 9900 10 14 12 6	16:00 16:15	0	84	0	84	2	104	8	114	198	2	1	2	5	0	0	1	1	6	204
17:15	16:15 16:30	1	95	0	96	3	128	6	137	233	8	1	2	11	2	3	3	8	19	252
17:30 17:45 1 91 0 92 4 122 18 144 236 4 0 2 6 1 1 7 9 15 251 17:45 18:00 1 96 1 98 6 110 8 124 222 5 3 4 12 1 3 13 17 29 251 15:15 15:30 1 113 1 115 4 128 6 138 253 25 1 4 30 0 4 1 5 355 288 09:00 09:15 1 82 17 100 6 154 22 182 282 4 5 1 10 6 5 22 182 282 4 5 1 1 9 1 1 9 11 1 9 11 1 9 11 1	16:30 16:45	1	86	0	87	1	119	10	130	217	7	0	2	9	1	1	6	8	17	234
17:45 18:00 1 96 1 98 6 110 8 124 222 5 3 4 12 1 3 13 17 29 251 15:15 15:30 1 113 1 115 4 128 6 138 253 25 1 4 30 0 4 1 5 35 288 09:00 09:15 1 82 17 100 6 154 22 182 282 4 5 1 10 6 4 5 15 10 6 4 5 15 10 6 4 5 15 10 6 4 5 15 10 6 4 1 5 3 1 10 6 4 7 2 10 221 1 13 16 25 221 17:00 17:15 0 76	17:15 17:30	0	82	0	82	8	119	12	139	221	4	0	5	9	1	3	10	14	23	244
15:15 15:30 1 1 113 1 115 4 128 6 138 253 25 1 4 3 0 0 4 1 1 5 35 288 09:00 19:15 1 82 17 100 6 154 22 182 282 4 5 1 10 6 4 5 15 25 307 16:45 17:00 1 74 0 75 7 132 7 146 221 5 3 1 9 1 1 9 1 1 20 241 17:00 17:15 0 87 0 87 3 97 9 109 196 1 2 6 9 2 1 1 1 3 16 25 221 07:00 07:15 0 76 0 76 0 176 10 186 262 3 1 1 3 7 1 0 0 0 1 8 270 07:15 0 0 76 0 76 0 176 10 186 262 3 1 3 3 7 1 0 0 0 1 1 2 7 319 07:30 07:45 2 66 2 70 2 190 13 205 275 1 0 0 1 2 2 0 0 1 1 1 2 7 319 07:30 08:45 1 74 1 1 73 6 172 16 194 267 4 1 3 3 8 0 0 0 2 2 2 10 277 08:00 08:15 3 92 4 99 5 191 20 216 315 6 2 1 1 9 0 1 1 2 2 5 8 18 8 8 08:30 08:45 1 68 5 74 11 207 29 247 321 8 4 4 16 0 3 4 7 2 3 344 08:45 13 16 25 123 11:45 12:30 13 15 13 5 13 15 13 2 1 13 1 1 13 2 104 7 113 226 4 0 4 8 8 1 0 0 0 3 3 3 17 3 3 17 2 36 11:45 12:30 1 118 2 119 2 123 12:45 1 1 0 0 0 3 3 2 1 1 1 2 2 1 1 326 11:45 12:30 1 118 2 119 2 123 2 106 8 116 239 3 0 0 3 2 2 8 8 1 10 0 4 206 26 23 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	17:30 17:45	1	91	0	92	4	122	18	144	236	4	0	2	6	1	1	7	9	15	251
09:00 09:15 1 82 17 100 6 154 22 182 282 4 5 1 10 6 4 5 15 25 307 16:45 17:00 1 74 0 75 7 132 7 146 221 5 3 1 9 1 1 9 9 11 20 241 17:00 17:15 0 87 0 87 0 87 3 97 9 109 196 1 2 6 9 2 1 13 16 25 221 07:00 07:15 0 76 0 76 0 176 10 186 262 3 1 3 7 1 1 0 0 0 1 8 270 07:15 07:30 3 70 0 73 0 220 19 239 312 4 1 0 0 5 0 1 1 1 2 7 319 07:30 07:45 2 66 2 70 2 190 13 205 275 1 0 1 2 0 0 1 1 1 2 7 319 07:30 07:45 1 3 92 4 99 5 191 20 216 315 6 2 1 9 9 0 1 1 1 2 1 1 3 26 08:16 08:30 1 71 1 1 73 6 172 16 194 267 4 1 3 3 8 0 0 2 2 2 10 277 08:15 08:30 2 88 6 96 6 215 23 244 340 2 3 5 10 1 2 5 8 18 358 08:30 08:45 1 68 5 74 11 207 29 247 321 8 4 4 16 0 3 4 7 23 344 09:15 09:30 4 88 3 95 2 147 15 164 259 4 3 3 3 10 2 5 5 7 14 24 283 11:30 11:45 12:00 1 118 2 121 2 98 6 106 227 5 2 4 11 3 0 1 4 7 246 11:45 12:00 1 118 2 119 2 123 2 106 8 116 239 3 3 0 0 3 2 1 1 1 4 7 2 2 1 1 5 16 26 12:00 12:15 1 4 108 1 113 2 104 7 113 226 4 0 4 0 4 8 1 1 0 2 2 3 11 2 2 2 1 5 16 23 11:30 11:45 12:00 1 133 5 138 1 119 5 125 263 4 1 4 4 9 9 3 2 1 1 1 4 7 246 11:45 12:00 12:15 4 108 1 113 2 114 3 1 113 5 119 250 2 0 3 5 1 1 1 2 2 1 5 16 20 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 2 7 2 9 1 1 1 1 3 12 2 9 249 15:00 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 7 0 0 2 2 2 1 5 5 16 265 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 1 1 2 2 7 2 9 249 15:00 15:15 1 33 0 2 132 2 136 3 95 6 104 240 4 1 1 2 7 7 0 0 2 2 2 1 5 5 16 265 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 3 5 1 1 1 1 0 2 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 1 2 7 7 0 0 2 2 2 2 9 249 15:00 15:15 1 136 4 4 8 8 1 1 119 5 125 263 4 1 1 4 1 2 7 7 0 0 0 2 2 2 9 9 249 15:00 15:15 1 134 4 1 15 1 120 3 124 230 5 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 28	17:45 18:00	1	96	1	98	6	110	8	124	222	5	3	4	12	1	3	13	17	29	251
16:45 17:00 1 74 0 75 7 132 7 146 221 5 3 1 9 1 1 9 11 20 241 17:00 17:15 0 87 0 87 3 97 9 109 196 1 2 6 9 2 1 13 16 25 221 07:00 07:15 0 76 0 176 0 176 0 188 262 3 1 3 7 1 0 0 1 8 270 07:15 07:30 3 7 0 73 0 220 19 239 312 4 1 0 5 0 1 1 1 2 7 319 9 1 1 2 0 0 1 1 2 7 319 9 1 1 1	15:15 15:30	1	113	1	115	4	128	6	138	253	25	1	4	30	0	4	1	5	35	288
17:00 17:15 0 87 0 87 3 97 9 109 196 1 2 6 9 2 1 13 16 25 221 07:00 07:15 0 76 0 176 10 176 10 186 262 3 1 3 7 1 0 0 1 8 270 07:15 07:30 70 0 73 0 220 19 239 312 4 1 0 5 0 1 1 2 7 319 07:45 2 66 2 70 2 190 13 205 275 1 0 1 2 0 0 1 1 1 3 27 2 100 2 2 10 277 319 07:45 08:00 1 71 1 73 6 172	09:00 09:15	1	82	17	100	6	154	22	182	282	4	5	1	10	6	4	5	15	25	307
07:00 07:15 0 76 0 76 0 176 10 186 262 3 1 3 7 1 0 0 1 8 270 07:15 0.730 3 70 0 73 0 220 19 239 312 4 1 0 5 0 1 1 2 7 319 07:30 07:45 266 2 70 2 190 13 205 275 1 0 1 2 0 0 1 1 2 7 319 07:45 08:00 1 71 1 73 6 172 16 194 267 4 1 3 8 0 0 2 2 10 277 08:15 3 92 4 99 5 191 20 216 315 6 2 1 9	16:45 17:00	1	74	0	75	7	132	7	146	221	5	3	1	9	1	1	9	11	20	241
07:15 07:30 3 70 0 73 0 220 19 239 312 4 1 0 5 0 1 1 2 7 319 07:45 08:00 1 71 1 73 6 172 16 194 267 4 1 2 0 0 1 1 3 278 07:45 08:00 1 71 1 73 6 172 16 194 267 4 1 3 8 0 0 2 2 10 277 08:00 08:15 3 92 4 99 5 191 20 216 315 6 2 1 9 0 1 1 2 11 32 0 1 1 2 11 32 0 1 1 2 5 8 18 368 8 1 1 </td <td>17:00 17:15</td> <td>0</td> <td>87</td> <td>0</td> <td>87</td> <td>3</td> <td>97</td> <td>9</td> <td>109</td> <td>196</td> <td>1</td> <td>2</td> <td>6</td> <td>9</td> <td>2</td> <td>1</td> <td>13</td> <td>16</td> <td>25</td> <td>221</td>	17:00 17:15	0	87	0	87	3	97	9	109	196	1	2	6	9	2	1	13	16	25	221
07:30 07:45 2 66 2 70 2 190 13 205 275 1 0 1 2 0 0 1 1 3 278 07:45 08:00 1 71 1 73 6 172 16 194 267 4 1 3 8 0 0 2 2 10 277 08:00 08:15 08:30 2 8 6 96 6 215 23 244 30 0 1 1 2 11 326 08:30 08:45 1 68 5 74 11 207 29 247 321 8 4 4 16 0 3 4 7 23 344 08:45 19:00 3 89 8 100 4 206 26 236 336 8 2 4 14 0 0<	07:00 07:15	0	76	0	76	0	176	10	186	262	3	1	3	7	1	0	0	1	8	270
07:45 08:00 1 71 1 73 6 172 16 194 267 4 1 3 8 0 0 2 2 10 277 08:00 08:15 3 92 4 99 5 191 20 216 315 6 2 1 9 0 1 1 2 111 326 08:15 08:30 2 88 6 96 6 215 23 244 340 2 3 5 10 1 2 5 8 18 358 08:30 08:45 1 68 5 74 111 207 29 247 321 8 4 4 16 0 3 4 7 23 344 08:45 09:00 3 89 8 100 4 206 26 236 336 8 2 4	07:15 07:30	3	70	0	73	0	220	19	239	312	4	1	0	5	0	1	1	2	7	319
08:00 08:15 3 92 4 99 5 191 20 216 315 6 2 1 9 0 1 1 1 2 11 326 08:16 08:30 2 88 6 96 6 215 23 244 340 2 3 5 100 1 2 5 8 8 18 358 08:30 08:45 1 68 5 74 11 207 29 247 321 8 4 16 16 0 3 4 7 23 344 08:30 08:45 1 68 5 74 11 207 29 247 321 8 4 16 16 0 3 4 7 23 344 08:45 09:00 3 89 8 100 4 206 26 236 336 8 2 4 14 0 0 0 3 3 3 17 353 09:15 09:30 4 88 3 95 2 147 15 164 259 4 3 3 3 10 2 5 7 14 24 283 11:30 11:45 2 119 2 123 2 106 8 116 239 3 0 0 3 2 1 1 1 4 7 246 11:45 12:30 1 118 2 121 2 98 6 106 227 5 2 4 111 3 0 1 4 15 242 12:00 12:15 4 108 1 1113 2 104 7 113 226 4 0 4 8 8 1 0 0 2 3 11 237 12:15 12:30 0 133 5 138 1 119 5 125 263 4 1 4 4 9 3 2 1 1 6 15 278 12:30 12:45 13:30 1 114 0 115 1 120 3 124 239 5 2 2 9 1 1 1 2 2 4 13 252 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 1 0 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2 2 2 9 249 15:00 15:15 1 153 0 154 4 88 2 13 95 6 104 240 4 1 2 7 0 0 2 2 2 9 249 15:00 15:15 1 153 0 154 4 88 2 131 113 5 119 250 2 0 3 5 1 1 1 0 2 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 0 2 2 2 9 249 15:00 15:15 1 153 0 154 2 85 8 95 249 8 2 2 12 12 3 0 3 3 6 18 238 09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1 1 1 1 3 12 288	07:30 07:45	2	66	2	70	2	190	13	205	275	1	0	1	2	0	0	1	1	3	278
08:15 08:30	07:45 08:00	1	71	1	73	6	172	16	194	267	4	1	3	8	0	0	2	2	10	277
08:30 08:45 1 68 5 74 11 207 29 247 321 8 4 4 16 0 3 4 7 23 344 08:45 09:00 3 89 8 100 4 206 26 236 336 8 2 4 14 0 0 0 3 3 3 17 353 09:15 09:30 4 88 3 95 2 147 15 164 259 4 3 3 10 2 5 7 14 24 283 11:30 11:45 2 119 2 123 2 106 8 116 239 3 0 0 3 2 1 1 4 4 7 246 11:45 12:00 1 118 2 121 2 98 6 106 227 5 2 4 11 3 0 1 4 15 242 12:00 12:15 4 108 1 113 2 104 7 113 226 4 0 4 8 1 1 0 2 3 11 237 12:15 12:30 0 133 5 138 1 119 5 125 263 4 1 4 9 3 2 1 6 15 278 12:30 12:45 1 132 1 134 0 101 9 110 244 7 1 3 11 2 2 1 1 5 16 260 12:45 13:00 1 114 0 115 1 120 3 124 239 5 2 2 9 1 1 1 2 2 4 13 252 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 1 0 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2 9 1 1 1 0 2 2 9 249 19:40 15:15 1 153 0 15:15 1 153 0 154 2 85 8 95 249 8 2 2 12 3 0 3 6 18 267 19:45 10:00 10 18 4 4 8 9 1 122 4 127 216 7 0 2 9 1 1 1 1 3 1 1 1 3 12 228	08:00 08:15	3	92	4	99	5	191	20	216	315	6	2	1	9	0	1	1	2	11	326
08:45 09:00 3 88 8 100 4 206 26 236 336 8 2 4 14 0 0 0 3 3 3 17 353 09:15 09:30 4 88 3 95 2 147 15 164 259 4 3 3 10 2 5 7 14 24 283 11:30 11:45 2 119 2 123 2 106 8 116 239 3 0 0 3 2 1 1 1 4 7 246 11:45 12:00 1 118 2 121 2 98 6 106 227 5 2 4 11 3 3 0 1 4 15 242 12:00 12:15 4 108 1 113 2 104 7 113 226 4 0 4 8 1 0 2 3 11 237 12:15 12:30 0 133 5 138 1 119 5 125 263 4 1 4 9 3 2 1 6 15 278 12:30 12:45 1 132 1 134 0 101 9 110 244 7 1 3 11 2 2 1 1 5 16 260 12:45 13:00 1 114 0 115 1 120 3 124 239 3 12 2 9 1 1 1 2 2 4 13 252 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 1 0 2 7 267 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 2 7 0 0 2 2 2 9 249 19:00 15:15 1 153 0 154 4 88 1 131 9 142 230 3 1 4 8 0 0 0 0 8 238 09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1 1 1 3 1 1 3 12 228	08:15 08:30	2	88	6	96	6	215	23	244	340	2	3	5	10	1	2	5	8	18	358
09:15 09:30	08:30 08:45	1	68	5	74	11	207	29	247	321	8	4	4	16	0	3	4	7	23	344
11:30 11:45	08:45 09:00	3	89	8	100	4	206	26	236	336	8	2	4	14	0	0	3	3	17	353
11:45 12:00 1 118 2 121 2 98 6 106 227 5 2 4 11 3 0 1 4 15 242 12:00 12:15 4 108 1 113 2 104 7 113 226 4 0 4 8 1 0 2 3 11 237 12:15 12:30 0 133 5 138 1 119 5 125 263 4 1 4 9 3 2 1 6 15 278 12:30 12:45 1 134 0 101 9 110 244 7 1 3 11 2 1 134 0 101 9 110 244 7 1 3 111 2 1 15 16 260 12:45 13:00 13:15 5 <t< td=""><td>09:15 09:30</td><td>4</td><td>88</td><td>3</td><td>95</td><td>2</td><td>147</td><td>15</td><td>164</td><td>259</td><td>4</td><td>3</td><td>3</td><td>10</td><td>2</td><td>5</td><td>7</td><td>14</td><td>24</td><td>283</td></t<>	09:15 09:30	4	88	3	95	2	147	15	164	259	4	3	3	10	2	5	7	14	24	283
12:00 12:15 4 108 1 113 2 104 7 113 226 4 0 4 8 1 0 2 3 11 237 12:15 12:30 0 133 5 138 1 119 5 125 263 4 1 4 9 3 2 1 6 15 278 12:30 12:45 13 132 1 134 0 101 9 110 244 7 1 3 11 2 2 1 5 16 260 12:45 13:00 1 114 0 115 1 120 3 124 239 5 2 2 9 1 1 2 4 13 252 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 0 2 7 257 13:76 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2	11:30 11:45	2	119	2	123	2	106	8	116	239	3	0	0	3	2	1	1	4	7	246
12:15 12:30 0 133 5 138 1 119 5 125 263 4 1 4 9 3 2 1 6 15 278 12:30 12:45 1 132 1 134 0 101 9 110 244 7 1 3 11 2 2 1 5 16 260 12:45 13:00 1 114 0 115 1 120 3 124 239 5 2 2 9 1 1 2 4 13 252 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 0 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2 2 9 249 15:00 15:15 1 15:30 15:42 285 8 95 249 8 2 2 12 3 0 3 6 <td< td=""><td>11:45 12:00</td><td>1</td><td>118</td><td>2</td><td>121</td><td>2</td><td>98</td><td>6</td><td>106</td><td>227</td><td>5</td><td>2</td><td>4</td><td>11</td><td>3</td><td>0</td><td>1</td><td>4</td><td>15</td><td>242</td></td<>	11:45 12:00	1	118	2	121	2	98	6	106	227	5	2	4	11	3	0	1	4	15	242
12:30 12:45 1 132 1 134 0 101 9 110 244 7 1 3 11 2 2 1 5 16 260 12:45 13:00 1 114 0 115 1 120 3 124 239 5 2 2 9 1 1 2 4 13 252 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 0 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2 2 9 249 15:00 15:15 1 153 0 154 2 85 8 95 249 8 2 2 12 3 0 3 6 18 267 09:45 10:00 4 82 2 88 2 131 9 142 230 3 1 4 8 0 0 0	12:00 12:15	4	108	1	113	2	104	7	113	226	4	0	4	8	1	0	2	3	11	237
12:45 13:00 1 114 0 115 1 120 3 124 239 5 2 2 9 1 1 2 4 13 252 13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 0 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2 2 9 249 15:00 15:15 1 153 0 154 2 8 8 95 249 8 2 2 12 3 0 3 6 18 267 09:45 10:00 4 82 2 88 2 131 9 142 230 3 1 4 8 0 0 0 0 0 8 238 09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1	12:15 12:30	0	133	5	138	1	119	5	125	263	4	1	4	9	3	2	1	6	15	278
13:00 13:15 5 125 1 131 1 113 5 119 250 2 0 3 5 1 1 0 2 7 257 13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2 2 9 249 15:00 15:15 1 153 0 154 2 85 8 95 249 8 2 2 12 3 0 3 6 18 267 09:45 10:00 4 82 2 188 2 131 9 142 230 3 1 4 8 0 0 0 0 8 238 09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1 1 1 3 12 228	12:30 12:45	1	132	1	134	0	101	9	110	244	7	1	3	11	2	2	1	5	16	260
13:15 13:30 2 132 2 136 3 95 6 104 240 4 1 2 7 0 0 2 2 9 249 15:00 15:15 1 153 0 154 2 85 8 95 249 8 2 2 12 3 0 3 6 18 267 09:45 10:00 4 82 2 88 2 131 9 142 230 3 1 4 8 0 0 0 0 0 8 238 09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1 1 3 12 228	12:45 13:00	1	114	0	115	1	120	3	124	239	5	2	2	9	1	1	2	4	13	252
15:00 15:15 1 153 0 154 2 85 8 95 249 8 2 2 12 13 0 3 6 18 267 09:45 10:00 4 82 2 88 2 131 9 142 230 3 1 4 8 0 0 0 0 0 8 238 09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1 1 3 12 228	13:00 13:15	5	125	1	131	1	113	5	119	250	2	0	3	5	1	1	0	2	7	257
09:45 10:00 4 82 2 88 2 131 9 142 230 3 1 4 8 0 0 0 0 0 8 238 09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1 1 3 12 228	13:15 13:30	2	132	2	136	3	95	6	104	240	4	1	2	7	0	0	2	2	9	249
09:30 09:45 1 84 4 89 1 122 4 127 216 7 0 2 9 1 1 1 3 12 228	15:00 15:15	1	153	0	154	2	85	8	95	249	8	2	2	12	3	0	3	6	18	267
	09:45 10:00	4	82	2	88	2	131	9	142	230	3	1	4	8	0	0	0	0	8	238
Total: 48 3102 68 3218 105 4322 362 4789 8007 169 47 85 301 44 46 115 205 506 8,513	09:30 09:45	1	84	4	89	1	122	4	127	216	7	0	2	9	1	1	1	3	12	228
	Total:	48	3102	68	3218	105	4322	362	4789	8007	169	47	85	301	44	46	115	205	506	8,513

May 3, 2024 Page 3 of 8 May 3, 2024 Page 4 of 8



Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

Survey Date: Tuesday, March 21, 2023 40857 WO No: Start Time: 07:00 Miovision Device:

Full Study Cyclist Volume

CLEARVIEW AVE ISLAND PARK DR

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
15:30 15:45	0	0	0	1	1	2	2
5:45 16:00	2	0	2	0	0	0	2
6:00 16:15	0	0	0	0	1	1	1
6:15 16:30	0	0	0	0	0	0	0
6:30 16:45	2	0	2	0	1	1	3
7:15 17:30	2	0	2	0	0	0	2
7:30 17:45	1	0	1	0	0	0	1
7:45 18:00	2	0	2	0	0	0	2
5:15 15:30	0	1	1	1	1	2	3
9:00 09:15	0	1	1	0	0	0	1
6:45 17:00	1	1	2	0	0	0	2
7:00 17:15	1	0	1	0	0	0	1
7:00 07:15	0	1	1	0	0	0	1
7:15 07:30	0	1	1	0	0	0	1
7:30 07:45	0	2	2	0	0	0	2
7:45 08:00	1	0	1	0	0	0	1
08:00 08:15	0	1	1	0	0	0	1
8:15 08:30	0	1	1	0	0	0	1
8:30 08:45	0	2	2	0	0	0	2
8:45 09:00	0	2	2	0	0	0	2
9:15 09:30	0	0	0	0	0	0	0
1:30 11:45	0	0	0	0	0	0	0
1:45 12:00	1	0	1	0	0	0	1
2:00 12:15	0	0	0	0	0	0	0
2:15 12:30	0	0	0	0	0	0	0
2:30 12:45	1	1	2	0	0	0	2
2:45 13:00	0	0	0	0	1	1	1
3:00 13:15	0	0	0	0	0	0	0
3:15 13:30	0	0	0	0	0	0	0
5:00 15:15	1	1	2	0	0	0	2
9:45 10:00	0	0	0	0	0	0	0
9:30 09:45	0	0	0	0	0	0	0
Total	15	15	30	2	5	7	37



Transportation Services - Traffic Services

Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

Survey Date: Tuesday, March 21, 2023 WO No: 40857 Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume ISLAND PARK DR **CLEARVIEW AVE**

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
15:30 15:45	0	5	5	2	0	2	7
15:45 16:00	0	14	14	2	0	2	16
16:00 16:15	1	2	3	0	3	3	6
16:15 16:30	0	6	6	3	4	7	13
16:30 16:45	0	7	7	4	3	7	14
17:15 17:30	1	2	3	0	0	0	3
17:30 17:45	0	3	3	3	4	7	10
17:45 18:00	0	4	4	1	6	7	11
15:15 15:30	0	2	2	1	0	1	3
09:00 09:15	0	18	18	3	0	3	21
16:45 17:00	0	5	5	1	2	3	8
17:00 17:15	0	6	6	0	4	4	10
07:00 07:15	0	0	0	0	2	2	2
07:15 07:30	0	2	2	0	0	0	2
07:30 07:45	0	0	0	1	0	1	1
07:45 08:00	0	3	3	0	2	2	5
08:00 08:15	0	0	0	4	0	4	4
08:15 08:30	0	4	4	2	0	2	6
08:30 08:45	0	3	3	1	0	1	4
08:45 09:00	0	0	0	1	0	1	1
09:15 09:30	0	7	7	1	0	1	8
11:30 11:45	0	0	0	0	1	1	1
11:45 12:00	0	1	1	1	0	1	2
12:00 12:15	0	2	2	0	3	3	5
12:15 12:30	0	4	4	2	1	3	7

May 3, 2024 May 3, 2024 Page 6 of 8 Page 5 of 8

12:30 12:45 12:45 13:00 13:15 13:30 15:00 15:15 09:45 10:00 09:30 09:45 Total



Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision

Full Study Heavy Vehicles

ISLAND PARK DR CLEARVIEW AVE

		No	orthbo	und		Sc	uthbou	nd			E	astbour	nd		We	estbour	nd			
Time P	eriod	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
15:30	15:45	0	0	0	0	1	3	0	4	4	0	0	0	0	0	0	0	0	0	4
15:45	16:00	0	1	0	1	0	0	0	0	1	0	1	0	1	2	2	0	4	5	6
16:00	16:15	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
16:15	16:30	0	1	0	1	0	1	0	1	2	0	1	0	1	0	1	0	1	2	4
16:30	16:45	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	1
17:15	17:30	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	1	2
17:30	17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	18:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
15:15	15:30	0	1	0	1	0	1	0	1	2	0	1	0	1	0	1	0	1	2	4
09:00	09:15	0	1	1	2	0	1	0	1	3	0	0	0	0	1	0	0	1	1	4
16:45	17:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
17:00	17:15	0	0	0	0	0	2	0	2	2	0	1	0	1	0	0	0	0	1	3
07:00	07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15	07:30	1	0	0	1	0	2	0	2	3	0	1	0	1	0	0	0	0	1	4
07:30	07:45	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
07:45	08:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
08:00	08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15	08:30	0	0	0	0	0	1	0	1	1	0	0	0	0	0	2	0	2	2	3
08:30	08:45	0	2	0	2	1	1	0	2	4	0	0	0	0	0	0	0	0	0	4
08:45	09:00	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
09:15	09:30	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
11:30	11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
11:45	12:00	0	2	0	2	1	2	0	3	5	1	1	1	3	0	0	0	0	3	8
12:00	12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15	12:30	0	1	0	1	0	0	0	0	1	0	1	0	1	0	1	0	1	2	3
12:30	12:45	0	0	0	0	0	3	0	3	3	0	0	0	0	0	1	0	1	1	4
12:45	13:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
13:00	13:15	0	2	0	2	0	2	0	2	4	0	0	0	0	0	1	0	1	1	5
13:15	13:30	0	0	0	0	0	2	0	2	2	0	1	0	1	0	0	0	0	1	3
15:00	15:15	0	0	0	0	0	1	0	1	1	0	1	0	1	0	0	0	0	1	2
09:45	10:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
09:30	09:45	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total:	None	1	14	2	17	3	22	0	25	42	2	16	1	19	3	14	0	17	36	78



Transportation Services - Traffic Services

Turning Movement Count - Study Results

CLEARVIEW AVE @ ISLAND PARK DR

 Survey Date:
 Tuesday, March 21, 2023
 WO No:
 40857

 Start Time:
 07:00
 Device:
 Miovision

Full Study 15 Minute U-Turn Total ISLAND PARK DR CLEARVIEW AVE

Time	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
15:15	15:30	0	0	0	0	0
09:00	09:15	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:15	09:30	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
09:45	10:00	0	0	0	0	0
09:30	09:45	0	0	0	0	0
To	otal	0	0	0	0	0

May 3, 2024 Page 7 of 8 May 3, 2024 Page 8 of 8



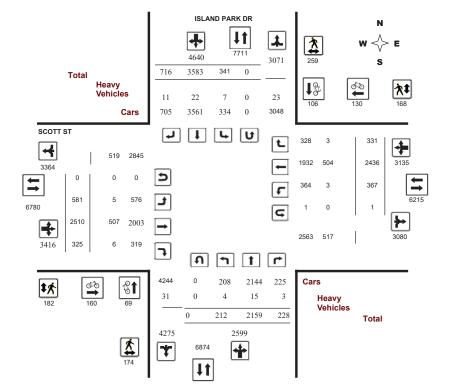
Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision

Full Study Diagram





Transportation Services - Traffic Services

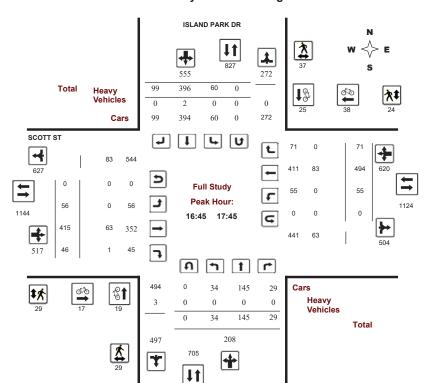
Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision

Full Study Peak Hour Diagram



January 26, 2024 Page 1 of 8 January 26, 2024 Page 2 of 8

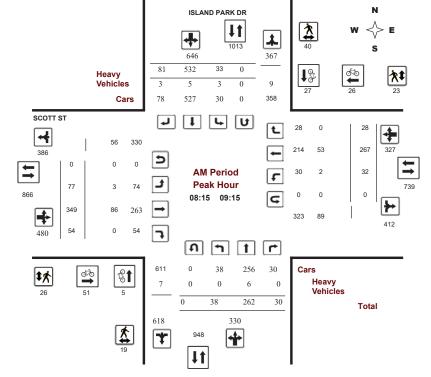


Turning Movement Count - Peak Hour Diagram

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision



Comments



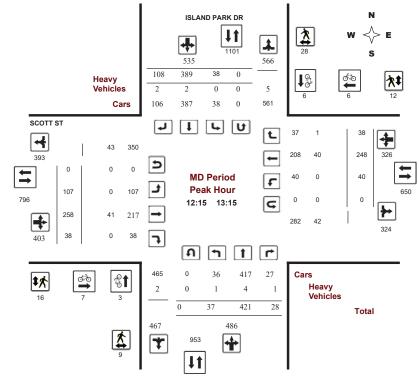
Transportation Services - Traffic Services

Turning Movement Count - Peak Hour Diagram

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision



Comments

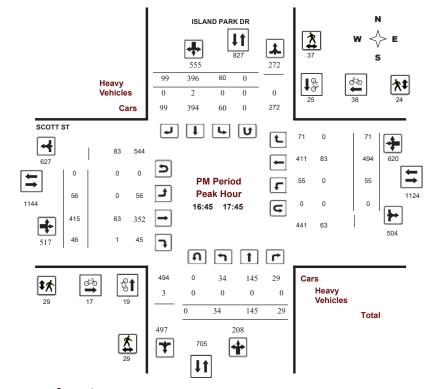


Turning Movement Count - Peak Hour Diagram

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision



Comments



Transportation Services - Traffic Services

Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision

Full Study Summary (8 HR Standard)

Survey Date: Thursday, October 27, 2022 Total Observed U-Turns

Northbound: 0 Southbound: 0 .90

								Eastbou	nd: 0		Most	tbound:	1						
								Lasibou	iiu. ()		VVC3		-						
			ISLAN	ID PAF	RK DR				_			S	COTT	ST					
	No	rthbou	nd		So	uthbou	und			Е	astbou	ınd		V	Vestbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Tota
07:00 08:00	20	241	31	292	37	604	77	718	1010	48	248	27	323	32	187	17	236	559	1569
08:00 09:00	35	237	32	304	32	531	76	639	943	76	340	51	467	33	256	26	315	782	1725
09:00 10:00	22	328	22	372	40	508	88	636	1008	75	267	50	392	24	228	39	291	683	1691
11:30 12:30	29	378	19	426	47	406	111	564	990	87	247	41	375	35	257	39	331	706	1696
12:30 13:30	41	406	26	473	35	370	93	498	971	98	245	30	373	41	228	44	313	686	1657
15:00 16:00	15	261	45	321	43	371	71	485	806	76	341	41	458	69	345	43	457	915	1721
16:00 17:00	24	164	28	216	41	409	97	547	763	64	388	34	486	76	448	70	594	1080	1843
17:00 18:00	26	144	25	195	66	384	103	553	748	57	434	51	542	57	487	53	597	1139	1887
Sub Total	212	2159	228	2599	341	3583	716	4640	7239	581	2510	325	3416	367	2436	331	3134	6550	13789
U Turns				0				0	0				0				1	1	1
Total	212	2159	228	2599	341	3583	716	4640	7239	581	2510	325	3416	367	2436	331	3135	6551	13790
EQ 12Hr	295	3001	317	3613	474	4980	995	6450	10062	808	3489	452	4748	510	3386	460	4358	9106	19168
Note: These v	alues a	re calcu	lated by	y multipl	ying the	totals b	y the a	ppropriat	e expans	ion fac	tor.			1.39					
AVG 12Hr	266	2701	285	3252	427	5872	1173	5805	9056	727	3140	407	4273	459	3047	414	3922	8195	17251
Note: These v	olumes	are cald	culated	by multi	plying th	ne Equiv	/alent 1	2 hr. tota	als by the	AADT	factor.			.90					
AVG 24Hr	348	3538	373	4260	559	7692	1537	7605	11863	952	4113	533	5598	601	3992	542	5138	10735	22599
Note: These v	olumes	are cal	culated	by multi	nlvina tl	ne Aver	age Dai	lv 12 hr	totals by	12 to 2	4 exnan	sion fac	tor	1.31					

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

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January 26, 2024 Page 3 of 8



Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision

Full Study 15 Minute Increments

ISLAND PARK DR SCOTT ST

	N ₁	orthbou	ınd		Sc	uthbou	nd			Е	astbour	nd		We	estbour	ıd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	3	46	4	53	9	163	14	186	239	8	50	3	61	5	39	2	47	108	347
07:15 07:30	4	63	2	69	4	150	19	173	242	9	47	10	66	5	28	4	37	103	345
07:30 07:45	9	63	8	80	9	149	23	181	261	14	52	3	69	10	50	5	65	134	395
07:45 08:00	4	69	17	90	15	142	21	178	268	17	99	11	127	12	70	6	88	215	483
08:00 08:15	6	72	6	84	9	142	16	167	251	17	82	12	111	10	40	8	58	169	420
08:15 08:30	4	61	7	72	4	146	14	164	236	23	90	10	123	7	78	5	90	213	449
08:30 08:45	13	50	13	76	12	124	19	155	231	20	79	14	113	10	63	5	78	191	422
08:45 09:00	12	54	6	72	7	119	27	153	225	16	89	15	120	6	75	8	89	209	434
09:00 09:15	9	97	4	110	10	143	21	174	284	18	91	15	124	9	51	10	70	194	478
09:15 09:30	4	73	7	84	13	122	26	161	245	26	64	10	100	3	59	10	72	172	417
09:30 09:45	4	82	3	89	10	122	22	154	243	20	51	12	83	6	70	11	87	170	413
09:45 10:00	5	76	8	89	7	121	19	147	236	11	61	13	85	6	48	8	62	147	383
11:30 11:45	7	95	2	104	11	126	21	158	262	19	64	10	93	6	48	9	63	156	418
11:45 12:00	12	88	4	104	10	87	24	121	225	24	56	6	86	6	64	15	85	171	396
12:00 12:15	4	94	5	103	13	92	32	137	240	14	53	9	76	11	72	6	89	165	405
12:15 12:30	6	101	8	115	13	101	34	148	263	30	74	16	120	12	73	9	94	214	477
12:30 12:45	13	93	12	118	11	100	21	132	250	27	68	8	103	10	63	14	87	190	440
12:45 13:00	11	126	5	142	4	94	27	125	267	24	62	7	93	9	48	8	65	158	425
13:00 13:15	7	101	3	111	10	94	26	130	241	26	54	7	87	9	64	7	80	167	408
13:15 13:30	10	86	6	102	10	82	19	111	213	21	61	8	90	13	53	15	81	171	384
15:00 15:15	2	110	8	120	7	99	16	122	242	29	66	12	107	14	69	13	96	203	445
15:15 15:30	5	63	15	83	10	98	18	126	209	24	82	14	120	11	81	10	102	222	431
15:30 15:45	2	54	14	70	12	82	15	109	179	15	104	9	128	21	104	11	136	264	443
15:45 16:00	6	34	8	48	14	92	22	128	176	8	89	6	103	23	91	9	123	226	402
16:00 16:15	8	42	8	58	8	93	21	122	180	17	89	8	114	25	114	13	152	266	446
16:15 16:30	1	47	2	50	10	101	23	134	184	18	95	6	119	19	113	17	149	268	452
16:30 16:45	4	40	6	50	12	103	25	140	190	15	111	11	137	19	94	17	130	267	457
16:45 17:00	11	35	12	58	11	112	28	151	209	14	93	9	116	13	127	23	163	279	488
17:00 17:15	2	35	4	41	11	96	25	132	173	14	107	16	137	16	130	14	160	297	470
17:15 17:30	13	36	6	55	20	84	22	126	181	17	106	10	133	13	111	20	144	277	458
17:30 17:45	8	39	7	54	18	104	24	146	200	11	109	11	131	13	126	14	153	284	484
17:45 18:00	3	34	8	45	17	100	32	149	194	15	112	14	141	15	120	5	140	281	475
Total:	212	2159	228	2599	341	3583	716	4640	7239	581	2510	325	3416	367	2436	331	3135	6551	13,790

Note: U-Turns are included in Totals.



Transportation Services - Traffic Services

Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision

Full Study Cyclist Volume

ISLAND PARK DR SCOTT ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	2	1	3	1	1	2	5
7:15 07:30	2	1	3	2	1	3	6
7:30 07:45	2	2	4	6	1	7	11
7:45 08:00	4	8	12	11	6	17	29
08:00 08:15	1	6	7	9	4	13	20
8:15 08:30	1	9	10	15	1	16	26
08:30 08:45	1	10	11	15	6	21	32
08:45 09:00	2	3	5	13	14	27	32
09:00 09:15	1	5	6	8	5	13	19
09:15 09:30	0	2	2	7	1	8	10
09:30 09:45	0	4	4	3	1	4	8
09:45 10:00	3	1	4	1	2	3	7
11:30 11:45	0	0	0	1	2	3	3
11:45 12:00	3	1	4	3	3	6	10
12:00 12:15	1	2	3	2	2	4	7
12:15 12:30	2	1	3	3	3	6	9
12:30 12:45	0	2	2	1	0	1	3
12:45 13:00	0	2	2	2	1	3	5
13:00 13:15	1	1	2	1	2	3	5
13:15 13:30	0	3	3	2	4	6	9
15:00 15:15	0	2	2	5	0	5	7
15:15 15:30	2	1	3	5	3	8	11
15:30 15:45	10	1	11	8	5	13	24
15:45 16:00	1	0	1	1	4	5	6
16:00 16:15	1	5	6	7	5	12	18
16:15 16:30	7	2	9	4	7	11	20
16:30 16:45	0	4	4	2	6	8	12
16:45 17:00	4	12	16	3	12	15	31
17:00 17:15	5	4	9	10	14	24	33
17:15 17:30	7	7	14	3	8	11	25
17:30 17:45	3	2	5	1	4	5	10
17:45 18:00	3	2	5	5	2	7	12
Total	69	106	175	160	130	290	465

January 26, 2024 Page 4 of 8 January 26, 2024 Page 5 of 8



Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision

Full Study Pedestrian Volume

ISLAND PARK DR SCOTT ST

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	3	7	10	2	3	5	15
07:15 07:30	2	8	10	4	4	8	18
07:30 07:45	1	4	5	4	1	5	10
07:45 08:00	19	4	23	11	14	25	48
08:00 08:15	7	9	16	12	5	17	33
08:15 08:30	5	15	20	12	5	17	37
08:30 08:45	4	11	15	8	9	17	32
08:45 09:00	8	10	18	1	5	6	24
09:00 09:15	2	4	6	5	4	9	15
09:15 09:30	2	15	17	4	3	7	24
09:30 09:45	1	2	3	2	1	3	6
09:45 10:00	5	6	11	4	6	10	21
11:30 11:45	4	8	12	5	8	13	25
11:45 12:00	3	1	4	1	1	2	6
12:00 12:15	3	4	7	3	2	5	12
12:15 12:30	1	9	10	3	1	4	14
12:30 12:45	3	6	9	6	4	10	19
12:45 13:00	4	5	9	3	3	6	15
13:00 13:15	1	8	9	4	4	8	17
13:15 13:30	7	3	10	6	4	10	20
15:00 15:15	5	7	12	3	7	10	22
15:15 15:30	7	7	14	4	10	14	28
15:30 15:45	6	11	17	4	7	11	28
15:45 16:00	7	11	18	5	9	14	32
16:00 16:15	11	10	21	11	3	14	35
16:15 16:30	11	10	21	7	5	12	33
16:30 16:45	5	19	24	15	3	18	42
16:45 17:00	9	13	22	8	10	18	40
17:00 17:15	8	10	18	7	2	9	27
17:15 17:30	10	8	18	10	9	19	37
17:30 17:45	2	6	8	4	3	7	15
17:45 18:00	8	8	16	4	13	17	33
Total	174	259	433	182	168	350	783



Transportation Services - Traffic Services

Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

 Survey Date:
 Thursday, October 27, 2022
 WO No:
 40675

 Start Time:
 07:00
 Device:
 Miovision

Full Study Heavy Vehicles

ISLAND PARK DR SCOTT ST

			SLAN	D PA	KK D	ĸ						30	3011	31					
	N	orthbo	und		Sc	outhbou	ınd			Е	astbour	nd		W	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	0	0	1	0	1	0	1	2	0	25	0	45	0	20	0	45	90	46
07:15 07:30	0	0	0	1	0	0	0	1	2	0	18	1	30	0	11	1	30	60	31
07:30 07:45	0	0	0	0	0	0	1	1	1	0	22	0	43	0	20	0	42	85	43
07:45 08:00	0	0	1	2	1	0	0	1	3	0	22	1	43	0	20	0	44	87	45
08:00 08:15	0	2	0	2	0	0	0	2	4	0	22	0	38	0	16	0	38	76	40
08:15 08:30	0	1	0	3	0	2	1	5	8	1	20	0	39	0	17	0	37	76	42
08:30 08:45	0	2	0	3	1	1	1	6	9	1	19	0	35	0	14	0	34	69	39
08:45 09:00	0	1	0	3	0	1	1	4	7	1	24	0	40	1	14	0	39	79	43
09:00 09:15	0	2	0	4	2	1	0	5	9	0	23	0	31	1	8	0	34	65	37
09:15 09:30	1	0	0	3	0	2	0	2	5	0	16	0	30	0	13	0	29	59	32
09:30 09:45	0	0	0	2	0	1	0	1	3	0	17	1	32	0	14	0	31	63	33
09:45 10:00	0	1	0	1	0	0	1	3	4	0	10	0	24	0	13	1	24	48	26
11:30 11:45	0	1	0	2	0	0	0	1	3	0	8	1	18	0	9	0	17	35	19
11:45 12:00	0	0	0	2	1	1	0	3	5	1	11	1	24	0	11	0	23	47	26
12:00 12:15	0	0	0	0	0	0	1	1	1	0	13	0	26	0	12	0	25	51	26
12:15 12:30	0	0	0	1	0	1	0	1	2	0	10	0	20	0	10	0	20	40	21
12:30 12:45	0	1	1	3	0	1	0	2	5	0	8	0	20	0	12	0	21	41	23
12:45 13:00	0	2	0	2	0	0	2	4	6	0	10	0	21	0	9	0	19	40	23
13:00 13:15	1	1	0	2	0	0	0	2	4	0	13	0	23	0	9	1	23	46	25
13:15 13:30	2	0	0	3	0	1	1	2	5	0	11	0	22	0	8	0	19	41	23
15:00 15:15	0	0	0	1	0	1	1	3	4	1	11	0	34	0	21	0	32	66	35
15:15 15:30	0	0	0	1	0	1	0	1	2	0	10	0	29	0	19	0	29	58	30
15:30 15:45	0	0	1	2	1	0	0	1	3	0	11	0	35	1	24	0	38	73	38
15:45 16:00	0	0	0	1	0	1	0	1	2	0	18	0	30	0	12	0	30	60	31
16:00 16:15	0	0	0	0	0	0	0	0	0	0	17	0	40	0	23	0	40	80	40
16:15 16:30	0	1	0	4	0	3	1	5	9	0	15	0	35	0	19	0	34	69	39
16:30 16:45	0	0	0	1	0	1	0	1	2	0	28	0	52	0	24	0	52	104	53
16:45 17:00	0	0	0	2	0	2	0	2	4	0	18	0	33	0	15	0	33	66	35
17:00 17:15	0	0	0	0	0	0	0	0	0	0	14	0	38	0	24	0	38	76	38
17:15 17:30	0	0	0	0	0	0	0	0	0	0	18	0	44	0	26	0	44	88	44
17:30 17:45	0	0	0	1	0	0	0	0	1	0	13	1	32	0	18	0	31	63	32
17:45 18:00	0	0	0	0	1	0	0	1	1	0	12	0	31	0	19	0	32	63	32
Total: None	4	15	3	53	7	22	11	63	116	5	507	6	1037	3	504	3	1027	2064	1,090

January 26, 2024 Page 6 of 8 January 26, 2024 Page 7 of 8



Turning Movement Count - Study Results

ISLAND PARK DR @ SCOTT ST

Survey Date: Thursday, October 27, 2022 WO No: 40675 Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total ISLAND PARK DR SCOTT ST

Time I	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	1	1
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0



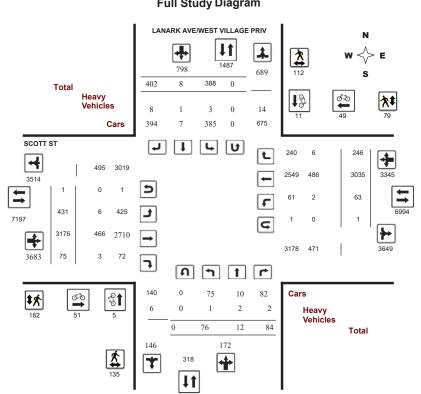
Transportation Services - Traffic Services

Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

Survey Date: Thursday, November 30, 2023 WO No: 41268 Start Time: 07:00 Device: Miovision

Full Study Diagram



January 26, 2024 Page 8 of 8 December 5, 2023 Page 1 of 8



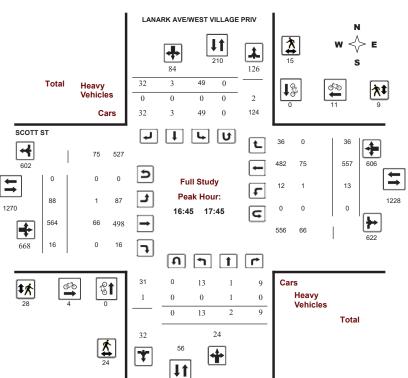
Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

Survey Date: Thursday, November 30, 2023 WO No: 41268

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



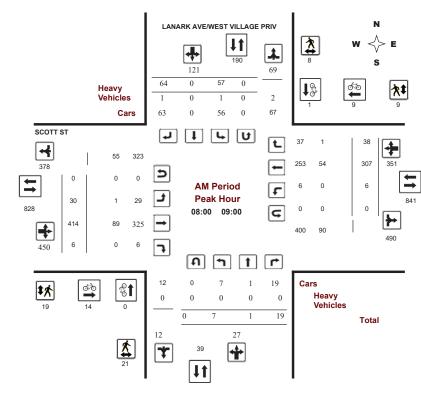
December 5, 2023 Page 2 of 8



Transportation Services - Traffic Services

Turning Movement Count - Peak Hour Diagram LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

Survey Date: Thursday, November 30, 2023 WO No: 41268
Start Time: 07:00 Device: Miovision



Comments

2023-Dec-05 Page 3 of 9

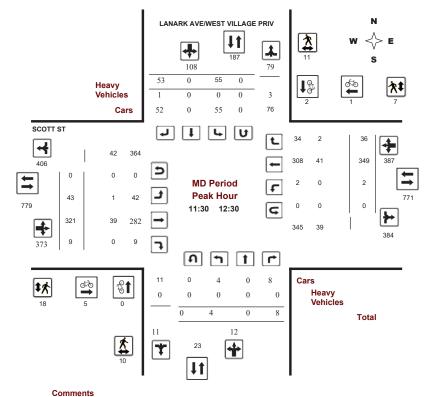


Turning Movement Count - Peak Hour Diagram

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

 Survey Date:
 Thursday, November 30, 2023
 WO No:
 41268

 Start Time:
 07:00
 Device:
 Miovision



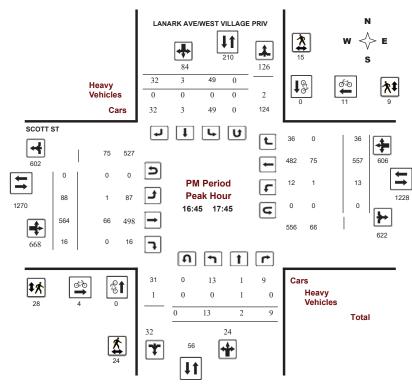
Comments



Transportation Services - Traffic Services

Turning Movement Count - Peak Hour Diagram LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

Survey Date: Thursday, November 30, 2023 WO No: 41268
Start Time: 07:00 Device: Miovision



Comments



Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

 Survey Date:
 Thursday, November 30, 2023
 WO No:
 41268

 Start Time:
 07:00
 Device:
 Miovision

Full Study Summary (8 HR Standard)

Survey Date: Thursday, November 30, 2023 Total Observed U-Turns

Northbound: 0 Southbound: 0 90

							- 1	Northbound	d: 0		South	nbound:	0				.90		
								Eastbound	l: 1		West	bound:	1						
	LAN	NARK	AVE/\	NEST	VILLA	GE PF	RIV					S	COTT	ST					
	Nor	thbou	nd		Sou	uthbou	ınd		_	Е	astbou	ınd		V	/estbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	11	0	10	21	50	0	71	121	142	17	283	1	301	5	249	12	266	567	709
08:00 09:00	7	1	19	27	57	0	64	121	148	30	414	6	450	6	307	38	351	801	949
09:00 10:00	12	0	8	20	40	0	46	86	106	27	296	5	328	9	297	19	325	653	759
11:30 12:30	4	0	8	12	55	0	53	108	120	43	321	9	373	2	349	36	387	760	880
12:30 13:30	4	1	4	9	36	1	47	84	93	56	329	9	394	6	292	37	335	729	822
15:00 16:00	9	7	18	34	62	2	46	110	144	82	517	11	610	12	476	36	524	1134	1278
16:00 17:00	11	2	11	24	49	3	35	87	111	90	478	13	581	13	540	30	583	1164	1275
17:00 18:00	18	1	6	25	39	2	40	81	106	86	538	21	645	10	525	38	573	1218	1324
Sub Total	76	12	84	172	388	8	402	798	970	431	3176	75	3682	63	3035	246	3344	7026	7996
U Turns				0				0	0				1				1	2	2
Total	76	12	84	172	388	8	402	798	970	431	3176	75	3683	63	3035	246	3345	7028	7998
EQ 12Hr	106	17	117	239	539	11	559	1109	1348	599	4415	104	5119	88	4219	342	4650	9769	11117
Note: These v	values ar	e calcu	lated by	y multiply	ying the	totals b	y the a	ppropriate	expans	ion fac	tor.			1.39					
AVG 12Hr	95	15	105	215	485	13	659	998	1213	539	3974	94	4607	79	3797	308	4185	8792	10005
Note: These v	volumes	are calo	culated	by multi	plying th	e Equiv	alent 1	12 hr. totals	by the	AADT	factor.			.90					
AVG 24Hr	124	20	138	282	635	17	863	1307	1589	706	5206	123	6035	103	4974	403	5482	11518	13107

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

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



Transportation Services - Traffic Services

Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

 Survey Date:
 Thursday, November 30, 2023
 WO No:
 41268

 Start Time:
 07:00
 Device:
 Miovision

Full Study 15 Minute Increments

LANARK AVE/WEST VILLAGE PRIV SCOTT ST

		N	orthbo	und		Sc	uthbou	ınd			Е	astbour	nd		W	estbour	nd			
07:15 07:30 1 0 3 4 11 0 20 31 35 4 64 1 69 1 49 2 52 121 156 07:30 07:45 5 0 4 9 16 0 16 32 41 47 4 43 0 75 1 69 7 77 152 193 07:45 80.00 3 6 14 0 0 41 47 4 83 0 0 68 12 80 19 231 08:30 08:45 1 0 4 5 16 0 17 33 38 9 117 3 129 4 68 8 80 20 20 22 0 23 45 54 7 102 2 111 0 8 9 22 0 23 45 54	Time Period	LT	ST	RT		LT	ST	RT			LT	ST	RT		LT	ST	RT			
07:30 07:45 5 0 4 9 16 0 16 32 41 5 70 0 75 1 69 7 77 152 193 07:45 08:00 3 0 3 6 14 0 27 41 47 4 83 0 3 81 2 86 173 220 08:00 08:15 3 0 5 8 10 0 14 24 24 2 7 111 11 11 19 4 68 8 80 209 22 20 23 38 9 117 3 12 99 20 22 0 23 45 54 7 102 22 111 0 8 8 80 29 203 227 08:45 9 0 1 2 14 4 2 114 0	07:00 07:15	2	0	0	2	9	0	8	17	19	4	66	0	70	0	50	1	51	121	140
07:45 08:00 08:16 3	07:15 07:30	1	0	3	4	11	0	20	31	35	4	64	1	69	1	49	2	52	121	156
08:00 08:15 3 0 0 5 8 10 0 0 14 24 32 7 111 1 1 119 0 68 12 80 199 231 08:15 08:30 0 1 1 4 5 16 0 177 33 38 9 117 3 129 4 68 8 8 0 209 247 08:30 08:45 1 0 0 4 5 9 0 10 10 19 24 7 102 2 111 0 80 12 92 203 227 08:45 09:00 3 0 6 9 22 0 23 45 54 7 84 0 91 2 91 6 99 190 244 09:00 09:15 1 0 1 2 14 0 12 26 8 8 12 10 0 74 2 186 5 72 7 84 202 230 09:15 09:30 3 0 3 6 9 0 12 21 27 10 74 2 86 2 85 7 94 180 207 09:45 10:00 3 0 0 4 7 11 0 8 12 2 14 10 0 80 12 2 86 8 10 199 190 244 09:00 10:15 1 0 0 1 2 14 10 0 12 26 28 12 10 7 10 74 2 86 2 85 7 94 180 207 09:45 10:00 3 0 0 4 7 11 0 8 19 26 1 55 0 0 0 56 2 68 3 73 129 155 11:30 11:45 2 0 0 2 1 4 14 0 0 11 25 29 9 9 85 4 98 0 0 90 10 100 198 227 11:45 12:00 1 0 3 3 4 13 0 12 25 29 10 80 1 91 0 105 8 113 204 233 12:00 12:15 0 0 2 2 2 16 0 1 14 20 25 25 15 82 2 10 1 0 0 78 10 88 189 219 12:30 12:45 1 0 1 0 1 2 2 12 0 16 28 30 13 86 2 2 101 0 78 10 88 86 189 219 12:30 12:45 1 0 1 0 1 2 2 12 0 16 28 30 13 86 2 2 101 0 78 10 88 189 219 12:30 12:45 1 0 0 0 2 1 1 3 0 10 23 24 21 84 1 1 106 0 78 10 88 189 219 12:30 13:45 1 0 0 0 2 1 1 13 0 10 23 24 21 84 1 1 106 0 78 10 88 189 219 13:30 13:45 1 0 0 1 2 2 4 0 13 17 19 9 80 4 93 1 1 60 6 6 67 160 179 13:15 13:30 1 0 1 0 1 2 2 4 0 13 17 19 9 80 4 93 1 1 60 6 6 67 160 179 13:15 13:30 1 0 0 1 2 2 4 0 13 17 17 19 9 80 4 93 1 1 60 6 6 67 160 179 15:50 15:50 1 0 0 5 6 1 1 17 0 0 11 2 2 4 0 0 13 17 19 9 80 4 93 1 60 6 6 67 160 179 15:50 15:50 1 0 0 5 6 1 1 1 1 1 7 0 1 1 2 4 0 0 11 22 22 25 11 18 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1	07:30 07:45	5	0	4	9	16	0	16	32	41	5	70	0	75	1	69	7	77	152	193
08:15 08:30 0 0 1 0 4 5 16 0 0 17 33 38 9 117 3 129 4 68 8 80 209 247 08:30 08:45 11 0 0 4 5 9 0 10 19 24 7 102 2 111 0 80 12 92 203 227 08:30 08:45 11 0 1 1 2 14 0 12 26 28 12 104 0 91 2 91 6 99 190 244 08:90 09:05 1 1 0 1 2 14 0 12 26 28 12 104 0 91 2 91 6 99 190 244 08:90 09:15 1 0 1 1 2 14 0 12 26 28 12 104 0 91 2 91 6 99 190 244 08:90 09:15 1 0 0 3 6 9 22 14 0 12 26 28 12 104 0 91 2 91 6 99 190 244 08:90 09:15 1 0 0 1 2 2 14 0 1 12 26 28 12 104 2 2 86 2 85 7 94 180 207 08:30 09:45 5 0 0 0 5 6 0 14 20 25 4 63 1 68 0 72 2 74 142 167 08:30 10:30 3 0 4 7 111 0 8 8 19 26 1 55 0 0 56 2 68 3 3 73 129 155 11:30 11:45 2 0 0 2 4 14 0 11 25 29 9 9 85 4 98 0 90 10 10 100 198 227 11:45 12:00 1 0 0 3 4 13 0 12 25 29 10 80 1 1 91 0 105 8 113 204 233 12:00 12:15 0 0 2 2 16 0 14 30 32 11 70 2 83 2 76 8 86 169 201 12:25 12:30 1 0 1 1 3 3 9 1 12 22 25 15 15 82 2 99 3 8 8 86 169 201 12:45 13:30 1 0 0 1 1 2 12 20 16 0 16 28 30 13 86 2 1 99 3 8 8 19 219 12:30 12:45 1 1 1 1 3 3 9 1 1 12 22 25 11 18 8 1 1 106 0 75 15 90 196 220 13:45 13:30 1 0 0 0 1 1 2 4 0 13 17 19 9 80 4 1 106 0 75 15 90 196 220 13:15 13:30 1 0 0 1 1 2 4 0 13 17 19 9 80 4 11 106 0 75 15 90 196 220 13:15 15:30 15:45 4 2 5 0 0 0 2 14 0 0 13 17 23 4 22 15 11 83 148 3 123 14 141 289 335 15:50 15:45 4 2 5 8 8 15 1 1 17 0 1 12 8 39 17 145 13 148 3 123 14 141 289 335 15:50 15:45 14 0 0 5 6 14 0 0 10 24 30 22 133 4 150 133 4 15 1 12 1 28 39 135 15:50 15:45 4 2 5 8 8 15 1 1 17 0 1 11 28 39 17 145 13 148 3 123 148 8 144 280 307 16:15 16:30 16:45 4 0 0 3 7 12 2 5 9 9 0 11 12 0 13 148 1 1 15 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1	07:45 08:00	3	0	3	6	14	0	27	41	47	4	83	0	87	3	81	2	86	173	220
08:30 08:45 1 0 0 4 5 9 0 0 10 19 24 7 102 2 111 0 80 12 92 203 227 08:45 99:00 3 0 6 9 22 0 23 45 54 7 84 0 91 2 91 6 99 190 244 09:00 09:15 09:30 3 0 6 9 0 12 14 0 12 26 28 12 104 2 118 5 72 7 84 202 230 09:30 09:45 5 0 0 0 5 6 9 0 12 21 27 10 74 2 86 2 86 2 85 7 994 180 207 09:30 09:45 5 0 0 0 5 6 0 0 14 20 12 21 27 10 74 2 86 2 86 2 85 7 994 180 207 09:30 10:45 5 0 0 0 5 6 0 0 14 20 12 14 10 15 10 15 10 10 10 10 10 10 10 10 10 11 10 10 11 10 10	08:00 08:15	3	0	5	8	10	0	14	24	32	7	111	1	119	0	68	12	80	199	231
08:45 09:00 09:15 11 0 0 1 1 2 144 0 0 12 26 28 12 104 2 118 5 72 7 84 202 230 09:15 09:30 09:45 5 0 0 5 6 9 0 14 20 25 4 14 0 12 26 28 12 104 2 118 5 72 7 84 202 230 09:15 09:30 09:45 5 0 0 5 6 0 14 20 25 4 16 0 14 20 25 4 16 63 1 68 0 72 2 74 142 167 09:45 10:00 3 0 0 4 7 111 0 8 19 26 1 5 5 0 5 6 2 68 3 73 129 155 11:30 11:45 2 0 2 1 4 14 0 111 25 29 9 85 4 98 0 90 10 10 100 198 227 11:45 12:00 1 0 0 3 4 13 0 12 25 29 10 80 1 90 10 10 100 198 227 11:45 12:00 1 0 0 2 2 16 0 14 30 32 11 70 80 13 86 2 101 0 76 8 113 204 233 12:45 13:00 1 0 0 1 1 2 12 0 16 0 14 30 32 11 70 2 83 2 76 8 8 86 169 201 12:45 13:00 1 0 0 1 1 2 12 0 16 28 30 13 86 2 101 0 0 78 10 88 189 219 12:30 12:45 1 1 1 1 1 3 9 1 12 22 25 15 82 2 9 9 8 3 82 7 92 191 216 12:45 13:00 1 0 0 0 1 1 3 0 10 23 24 1 18 1 10 0 78 10 88 189 219 12:30 12:45 1 1 0 0 0 1 1 3 13 0 10 12 22 25 15 15 82 2 9 9 3 86 2 10 10 0 75 15 90 196 201 13:15 13:30 1 0 0 0 1 1 2 4 0 0 13 17 19 9 80 4 93 1 1 60 6 6 67 160 179 15:00 15:15 3 2 3 8 12 1 8 21 1 8 21 29 19 118 1 1 38 4 104 9 9 117 255 284 15:30 15:45 4 2 2 5 11 17 0 0 15 6 6 14 0 10 12 2 2 2 10 11 13 14 14 28 33 15:30 15:45 4 2 2 5 11 17 0 11 28 39 17 145 3 148 1 15 5 12 12 14 14 20 30 30 30 30 30 30 30 30 30 30 30 30 30	08:15 08:30	0	1	4	5	16	0	17	33	38	9	117	3	129	4	68	8	80	209	247
09:00 09:15	08:30 08:45	1	0	4	5	9	0	10	19	24	7	102	2	111	0	80	12	92	203	227
09:15 09:30 3 0 0 3 6 9 0 0 12 21 27 10 74 2 86 2 85 7 94 180 207 09:30 09:45 5 0 0 0 5 6 0 14 20 25 4 63 1 68 0 72 2 74 142 167 09:30 10:00 3 0 4 7 111 0 8 19 26 1 55 0 56 2 68 3 73 129 155 11:30 11:45 2 0 2 4 14 0 11 25 29 9 85 4 98 0 90 10 10 100 198 227 11:45 12:00 1 0 0 3 4 13 0 12 25 29 10 80 1 91 0 105 8 113 204 233 12:00 12:15 0 0 2 2 4 16 0 14 30 32 11 70 2 83 2 76 8 86 169 201 12:15 12:30 1 0 1 1 3 9 1 12 25 25 29 10 80 1 91 0 0 105 8 113 204 233 12:00 12:15 0 0 0 2 1 12 2 0 16 28 30 13 86 2 101 0 78 10 88 189 219 12:30 12:45 1 1 1 3 9 1 12 2 2 25 15 82 2 9 9 3 8 8 2 7 92 191 216 12:45 13:30 1 0 0 0 1 1 33 0 10 23 24 21 84 1 1 106 0 75 15 90 196 220 13:00 13:15 1 0 2 3 10 0 1 1 22 2 2 25 11 83 2 96 2 75 9 86 182 207 15:45 15:30 1 3 5 9 19 1 17 23 22 25 11 83 2 96 2 75 9 86 182 207 15:50 15:50 1 3 2 3 8 12 1 8 21 2 8 21 2 9 19 118 1 1 18 8 2 10 9 17 12 2 2 2 15 15 15 30 1 1 1 1 1 2 2 2 2 1 1 1 1 1 1 2 1	08:45 09:00	3	0	6	9	22	0	23	45	54	7	84	0	91	2	91	6	99	190	244
09:30	09:00 09:15	1	0	1	2	14	0	12	26	28	12	104	2	118	5	72	7	84	202	230
09.45 10.00 3 0 4 7 11 0 8 19 26 1 55 0 56 2 68 3 73 129 155 11.30 11.45 2 0 2 4 14 0 11 25 29 9 85 4 98 0 90 10 100 198 227 11.45 12.00 1 0 3 4 13 0 12 25 29 9 85 4 98 0 90 10 100 198 227 11.45 12.00 1 0 3 4 13 0 12 25 29 9 85 4 98 0 90 10 100 198 227 11.45 12.00 1 0 0 2 2 16 0 14 30 32 111 70 2 83 2 76 8 86 169 201 12.15 12.30 1 0 1 2 12 0 16 28 30 13 86 2 101 0 78 10 88 189 219 12.30 12.45 1 1 1 1 3 9 1 12 22 25 15 82 2 99 3 82 7 92 191 216 12.45 13.00 1 0 0 1 13 0 10 23 24 21 84 1 106 0 75 5 98 86 182 207 13.15 13.30 1 0 0 1 2 4 0 13 17 19 9 80 4 93 1 60 6 67 160 179 15.00 15.15 3 2 3 8 12 1 8 21 29 19 118 1 138 4 104 9 117 255 284 15.15 15.30 1 0 5 6 14 0 10 24 30 22 135 4 159 3 133 8 144 289 336 15.45 16.00 1 0 5 6 14 0 10 24 30 22 135 4 159 3 133 8 144 200 307 16.15 16.30 16.45 4 0 3 7 12 0 7 19 26 22 125 4 152 1 128 29 316 20 316 16.30 16.45 4 0 3 7 12 0 7 19 26 22 25 25 24 159 3 134 8 145 304 334 16.00 16.15 2 0 0 2 5 9 0 11 20 25 20 148 1 169 3 153 4 160 329 354 17.70 17.15 17.30 6 0 2 8 12 2 9 5 0 11 20 25 20 148 1 169 3 153 4 160 329 354 17.71 17.71 17.71 18 18 18 18 18 18 18	09:15 09:30	3	0	3	6	9	0	12	21	27	10	74	2	86	2	85	7	94	180	207
11:30 11:45 2 0 2 4 14 0 11 25 29 9 85 4 98 0 90 10 100 198 227 11:45 12:00 1 0 3 4 13 0 12 25 29 10 80 1 91 0 105 8 113 204 233 12:00 12:15 0 0 2 2 16 0 14 30 32 11 70 2 83 2 76 8 86 169 201 12:15 12:30 1 0 1 2 12 0 16 28 30 13 86 2 101 0 78 10 88 189 219 12:30 12:45 1 1 1 3 9 1 12 22 25 15 82 2 99 3 82 7 92 191 216 12:45 13:00 1 0 0 1 13 0 10 23 24 21 84 1 106 0 75 15 90 196 220 13:15 13:30 1 0 2 3 10 0 12 22 25 11 83 2 96 2 75 9 86 182 207 13:15 13:30 1 0 1 2 4 0 13 17 19 9 80 4 93 1 60 6 67 160 179 15:00 15:15 3 2 3 8 12 1 8 21 29 19 118 1 138 4 104 9 117 255 284 15:15 15:30 1 3 5 9 19 1 17 37 46 24 121 3 148 3 123 14 141 289 335 15:45 16:00 1 0 5 6 14 0 10 24 30 22 133 4 159 3 134 8 145 304 334 16:00 16:15 2 0 0 2 10 0 15 25 27 19 113 4 136 3 133 8 144 280 307 16:15 16:30 4 0 3 7 12 0 7 19 26 22 125 4 159 3 148 8 161 321 349 17:00 17:15 3 0 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:00 17:15 3 0 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:00 17:15 3 0 2 5 9 0 11 20 25 20 148 1 169 3 153 4 160 329 354 17:15 17:30 6 0 2 8 12 2 10 0 15 25 27 19 113 4 169 3 153 4 160 329 354 17:15 17:30 6 0 2 8 12 2 0 0 11 20 25 20 148 1 169 3 153 4 160 329 354 17:15 17:30 6 0 2 8 12 2 0 0 11 20 25 20 148 11 18 37 2	09:30 09:45	5	0	0	5	6	0	14	20	25	4	63	1	68	0	72	2	74	142	167
1145 12:00 1 0 3 4 13 0 12 25 29 10 80 1 91 0 105 8 113 204 233 12:00 12:15 0 0 2 2 16 0 14 30 32 11 70 2 83 2 76 8 86 169 201 12:15 12:30 1 0 1 2 12 0 16 28 30 13 86 2 101 0 78 10 88 189 219 12:30 12:45 1 1 1 3 9 1 12 22 25 15 82 2 99 3 82 7 92 191 216 12:45 13:30 1 0 0 1 13 0 10 22 25 11 88 2 <td>09:45 10:00</td> <td>3</td> <td>0</td> <td>4</td> <td>7</td> <td>11</td> <td>0</td> <td>8</td> <td>19</td> <td>26</td> <td>1</td> <td>55</td> <td>0</td> <td>56</td> <td>2</td> <td>68</td> <td>3</td> <td>73</td> <td>129</td> <td>155</td>	09:45 10:00	3	0	4	7	11	0	8	19	26	1	55	0	56	2	68	3	73	129	155
12:00	11:30 11:45	2	0	2	4	14	0	11	25	29	9	85	4	98	0	90	10	100	198	227
12:15 12:30 1 0 1 0 1 2 12 0 16 28 30 13 86 2 101 0 78 10 88 189 219 12:30 12:45 11 1 1 1 3 9 1 122 22 25 15 82 2 99 3 82 7 92 191 216 12:45 13:00 1 0 0 0 1 13 0 10 23 24 21 84 1 106 0 75 15 90 196 220 13:15 13:30 1 0 0 1 2 2 3 10 0 12 22 25 118 83 2 96 2 75 5 9 86 182 207 13:15 13:30 1 0 1 2 4 0 13 17 19 9 80 4 93 1 60 6 6 67 160 179 15:00 15:15 3 2 3 8 12 1 8 21 29 19 118 1 138 4 104 9 117 255 284 15:15 15:30 1 3 5 9 19 1 1 77 37 46 24 121 3 148 1 138 1 23 14 141 289 335 15:30 15:45 4 2 5 11 17 0 111 28 39 17 145 3 165 2 115 5 122 287 326 15:45 16:00 1 0 5 6 14 0 10 24 30 22 133 4 159 3 134 8 144 280 307 16:15 16:30 16:15 2 0 0 0 2 10 0 15 25 27 19 113 4 136 3 133 8 144 280 307 16:15 16:30 16:45 4 0 3 7 12 2 9 9 30 19 26 22 125 148 1 169 3 153 4 160 274 304 16:45 17:00 1 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:45 17:30 17:45 3 0 2 2 5 9 0 11 20 24 30 22 131 6 0 5 148 8 161 321 349 17:70 17:15 13 0 2 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:70 17:15 13 0 2 2 5 9 5 0 12 17 26 18 111 8 11 8 137 2 116 10 128 265 291	11:45 12:00	1	0	3	4	13	0	12	25	29	10	80	1	91	0	105	8	113	204	233
12:30	12:00 12:15	0	0	2	2	16	0	14	30	32	11	70	2	83	2	76	8	86	169	201
12:45 13:00 1 0 0 1 13 0 10 23 24 21 84 1 106 0 75 15 90 196 220 13:00 13:15 1 0 2 3 10 0 12 22 25 11 83 2 96 2 75 9 86 182 207 13:15 13:30 1 0 1 2 4 0 13 17 19 9 80 4 93 1 60 6 67 160 179 15:00 15:15 3 2 3 8 12 1 8 21 29 19 118 1 138 4 104 9 117 255 2284 15:15 15:30 1 3 5 9 19 1 17 37 46 24 121 3	12:15 12:30	1	0	1	2	12	0	16	28	30	13	86	2	101	0	78	10	88	189	219
13:00 13:15 1 0 2 3 10 0 12 22 25 11 83 2 96 2 75 9 86 182 207 13:15 13:30 1 0 1 2 4 0 13 17 19 9 80 4 93 1 60 6 67 160 179 15:00 15:15 3 2 3 8 12 1 8 21 29 19 118 1 138 4 104 9 117 255 284 15:15 15:30 1 3 5 9 9 9 11 17 37 46 24 121 3 144 141 128 33 165 2 115 5 122 287 326 15:45 16:00 1 0 5 6 14 0 <td< td=""><td>12:30 12:45</td><td>1</td><td>1</td><td>1</td><td>3</td><td>9</td><td>1</td><td>12</td><td>22</td><td>25</td><td>15</td><td>82</td><td>2</td><td>99</td><td>3</td><td>82</td><td>7</td><td>92</td><td>191</td><td>216</td></td<>	12:30 12:45	1	1	1	3	9	1	12	22	25	15	82	2	99	3	82	7	92	191	216
13:15 13:30 1 0 1 2 4 0 13 17 19 9 80 4 93 1 60 6 67 160 179 15:00 15:15 3 2 3 8 12 1 8 21 29 19 118 1 138 4 104 9 117 255 284 15:15 15:30 15:45 4 2 5 11 17 0 11 28 33 148 3 123 14 141 289 335 15:30 15:45 4 2 5 11 17 0 11 28 39 17 145 3 165 2 115 5 122 287 326 15:45 16:00 1 0 5 6 14 0 10 24 30 22 133 4 159	12:45 13:00	1	0	0	1	13	0	10	23	24	21	84	1	106	0	75	15	90	196	220
15:00 15:15 3 2 3 8 12 1 8 21 29 19 118 1 138 4 104 9 117 255 284 15:15 15:30 1 3 5 9 19 1 17 37 46 24 121 3 148 3 123 14 141 289 335 15:30 15:45 4 2 5 11 17 0 11 28 39 17 145 3 165 2 115 5 122 287 326 15:45 16:00 1 0 5 6 14 0 10 24 30 22 133 4 159 3 134 8 144 280 307 16:15 16:30 16:15 2 0 0 2 10 0 15 25 27 19 <td>13:00 13:15</td> <td>1</td> <td>0</td> <td>2</td> <td>3</td> <td>10</td> <td>0</td> <td>12</td> <td>22</td> <td>25</td> <td>11</td> <td>83</td> <td>2</td> <td>96</td> <td>2</td> <td>75</td> <td>9</td> <td>86</td> <td>182</td> <td>207</td>	13:00 13:15	1	0	2	3	10	0	12	22	25	11	83	2	96	2	75	9	86	182	207
15:15 15:30 1 3 5 9 19 1 17 37 46 24 121 3 148 3 123 14 141 289 335 15:30 15:45 4 2 5 11 17 0 11 28 39 17 145 3 165 2 115 5 122 287 326 15:45 16:00 1 0 5 6 14 0 10 22 133 4 159 3 134 8 145 304 334 16:00 16:15 2 0 0 2 10 0 15 25 27 19 113 4 136 3 133 8 144 280 307 16:15 16:30 4 0 3 7 12 0 7 19 26 22 125 4 152	13:15 13:30	1	0	1	2	4	0	13	17	19	9	80	4	93	1	60	6	67	160	179
15:30 15:45 4 2 5 11 17 0 11 28 39 17 145 3 165 2 115 5 122 287 326 15:45 16:00 1 0 5 6 14 0 10 24 30 22 133 4 159 3 134 8 145 304 334 16:00 16:15 2 0 0 2 10 0 15 25 27 19 113 4 136 3 133 8 144 280 307 16:15 16:30 4 0 3 7 12 0 7 19 26 22 125 4 152 1 128 9 33 16 16:45 4 0 3 7 12 2 9 23 30 29 103 2 134	15:00 15:15	3	2	3	8	12	1	8	21	29	19	118	1	138	4	104	9	117	255	284
15:45 16:00 1 0 5 6 14 0 10 24 30 22 133 4 159 3 134 8 145 304 334 16:00 16:15 12 0 0 2 10 0 15 25 27 19 113 4 136 3 133 8 144 280 307 16:15 16:30 16:45 4 0 3 7 12 2 9 23 30 29 133 4 152 1 128 9 138 290 316 16:30 16:45 4 0 3 7 12 2 9 23 30 29 103 2 134 4 131 5 140 274 304 16:45 17:00 1 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:00 17:15 3 0 2 5 9 0 11 20 25 20 148 1 169	15:15 15:30	1	3	5	9	19	1	17	37	46	24	121	3	148	3	123	14	141	289	335
16:00 16:15 2 0 0 2 10 0 15 25 27 19 113 4 136 3 133 8 144 280 307 16:15 16:30 4 0 3 7 12 0 7 19 26 22 125 4 152 1 128 9 138 290 316 16:30 16:45 4 0 3 7 12 2 9 23 30 29 103 2 134 4 131 5 140 274 304 16:45 17:00 1 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:00 17:15 3 0 2 5 9 0 111 20 25 20 148	15:30 15:45	4	2	5	11	17	0	11	28	39	17	145	3	165	2	115	5	122	287	326
16:15 16:30 4 0 3 7 12 0 7 19 26 22 125 4 152 1 128 9 138 290 316 16:30 16:45 4 0 3 7 12 2 9 23 30 29 103 2 134 4 131 5 140 274 304 16:45 17:00 1 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:00 17:15 17:30 6 0 2 8 12 2 10 24 32 26 148 6 180 2 136 16 154 34 366 17:30 16:30 16 15 3 0 2 3 13 0 7 20 23 22 131 6 180 2 136 16 16 154 334 366 17:30 16:45 3 0 0 3 13 0 7 20 23 22 <t< td=""><td>15:45 16:00</td><td>1</td><td>0</td><td>5</td><td>6</td><td>14</td><td>0</td><td>10</td><td>24</td><td>30</td><td>22</td><td>133</td><td>4</td><td>159</td><td>3</td><td>134</td><td>8</td><td>145</td><td>304</td><td>334</td></t<>	15:45 16:00	1	0	5	6	14	0	10	24	30	22	133	4	159	3	134	8	145	304	334
16:30 16:45 4 0 3 7 12 2 9 23 30 29 103 2 134 4 131 5 140 274 304 16:45 17:00 1 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:00 17:15 3 0 2 5 9 0 11 20 25 20 148 1 169 3 153 4 160 329 354 17:15 17:30 6 0 2 8 12 2 10 24 32 26 148 6 180 2 136 16 154 334 366 17:30 17:45 3 0 0 3 13 0 7 20 23 22 131 6 159 3 120 8 131 290 313 17:30 17:45 3 0 0 3 13 0 7 20 23 22 131 6 159 3 1	16:00 16:15	2	0	0	2	10	0	15	25	27	19	113	4	136	3	133	8	144	280	307
16:45 17:00 1 2 5 8 15 1 4 20 28 20 137 3 160 5 148 8 161 321 349 17:00 17:15 3 0 2 5 9 0 11 20 25 20 148 1 169 3 153 4 160 329 354 17:15 17:30 6 0 2 8 12 2 10 24 32 26 148 6 180 2 136 16 154 334 366 17:30 17:45 3 0 0 3 13 0 7 20 23 22 131 6 159 3 120 8 131 29 313 17:45 18:00 6 1 2 9 5 0 12 17 26 18 111 8 137 2 116 10 128 265 291	16:15 16:30	4	0	3	7	12	0	7	19	26	22	125	4	152	1	128	9	138	290	316
17:00 17:15 3 0 2 5 9 0 11 20 25 20 148 1 169 3 153 4 160 329 354 17:15 17:30 6 0 2 8 12 2 10 24 32 26 148 6 180 2 136 16 154 334 366 17:30 17:45 3 0 0 3 13 0 7 20 23 22 131 6 159 3 120 8 131 290 313 17:45 18:00 6 1 2 9 5 0 12 17 26 18 111 8 137 2 116 10 128 265 291	16:30 16:45	4	0	3	7	12	2	9	23	30	29	103	2	134	4	131	5	140	274	304
17:15 17:30 6 0 2 8 12 2 10 24 32 26 148 6 180 2 136 16 154 334 366 17:30 17:45 3 0 0 3 13 0 7 20 23 22 131 6 159 3 120 8 131 290 313 17:45 18:00 6 1 2 9 5 0 12 17 26 18 111 8 137 2 116 10 128 265 291	16:45 17:00	1	2	5	8	15	1	4	20	28	20	137	3	160	5	148	8	161	321	349
17:30 17:45 3 0 0 0 3 13 0 0 7 20 23 22 131 6 159 3 120 8 131 290 313 17:45 18:00 6 1 2 9 5 0 12 17 26 18 111 8 137 2 116 10 128 265 291	17:00 17:15	3	0	2	5	9	0	11	20	25	20	148	1	169	3	153	4	160	329	354
17:45 18:00 6 1 2 9 5 0 12 17 26 18 111 8 137 2 116 10 128 265 291	17:15 17:30	6	0	2	8	12	2	10	24	32	26	148	6	180	2	136	16	154	334	366
	17:30 17:45	3	0	0	3	13	0	7	20	23	22	131	6	159	3	120	8	131	290	313
Total: 76 12 84 172 388 8 402 798 970 431 3176 75 3683 63 3035 246 3345 7028 7,998	17:45 18:00	6	1	2	9	5	0	12	17	26	18	111	8	137	2	116	10	128	265	291
	Total:	76	12	84	172	388	8	402	798	970	431	3176	75	3683	63	3035	246	3345	7028	7,998

Note: U-Turns are included in Totals.

December 5, 2023 Page 3 of 8 December 5, 2023 Page 4 of 8



Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

 Survey Date:
 Thursday, November 30, 2023
 WO No:
 41268

 Start Time:
 07:00
 Device:
 Miovision

Full Study Cyclist Volume

LANARK AVE/WEST VILLAGE PRIV SCOTT ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	1	0	1	1
07:15 07:30	0	0	0	2	0	2	2
07:30 07:45	0	0	0	1	2	3	3
07:45 08:00	0	2	2	3	0	3	5
08:00 08:15	0	0	0	1	1	2	2
08:15 08:30	0	0	0	4	3	7	7
08:30 08:45	0	0	0	7	4	11	11
08:45 09:00	0	1	1	2	1	3	4
09:00 09:15	0	0	0	1	0	1	1
09:15 09:30	0	0	0	0	1	1	1
09:30 09:45	0	0	0	0	0	0	0
09:45 10:00	0	0	0	2	1	3	3
11:30 11:45	0	1	1	2	0	2	3
11:45 12:00	0	1	1	3	0	3	4
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	1	1	1
12:30 12:45	0	1	1	1	2	3	4
12:45 13:00	0	0	0	0	0	0	0
13:00 13:15	1	0	1	1	2	3	4
13:15 13:30	0	0	0	2	0	2	2
15:00 15:15	0	1	1	4	2	6	7
15:15 15:30	3	0	3	1	1	2	5
15:30 15:45	0	1	1	2	2	4	5
15:45 16:00	0	0	0	2	1	3	3
16:00 16:15	0	0	0	0	3	3	3
16:15 16:30	1	2	3	2	4	6	9
16:30 16:45	0	0	0	2	3	5	5
16:45 17:00	0	0	0	3	1	4	4
17:00 17:15	0	0	0	1	4	5	5
17:15 17:30	0	0	0	0	2	2	2
17:30 17:45	0	0	0	0	4	4	4
17:45 18:00	0	1	1	1	4	5	6
Total	5	11	16	51	49	100	116



Transportation Services - Traffic Services

Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

 Survey Date:
 Thursday, November 30, 2023
 WO No:
 41268

 Start Time:
 07:00
 Device:
 Miovision

Full Study Pedestrian Volume

LANARK AVE/WEST VILLAGE PRIV SCOTT ST

	NB Approach 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 07:15	1	1	2	0	0	0	2
7:15 07:30	2	4	6	2	1	3	9
7:30 07:45	4	6	10	5	0	5	15
07:45 08:00	6	4	10	7	6	13	23
08:00 08:15	6	2	8	1	6	7	15
8:15 08:30	4	3	7	9	2	11	18
08:30 08:45	4	3	7	2	1	3	10
08:45 09:00	7	0	7	7	0	7	14
09:00 09:15	2	2	4	1	1	2	6
09:15 09:30	5	0	5	3	3	6	11
09:30 09:45	4	1	5	4	2	6	11
09:45 10:00	2	1	3	5	0	5	8
11:30 11:45	1	3	4	4	3	7	11
11:45 12:00	0	3	3	6	0	6	9
12:00 12:15	4	4	8	3	1	4	12
12:15 12:30	5	1	6	5	3	8	14
12:30 12:45	2	4	6	6	3	9	15
12:45 13:00	4	5	9	9	3	12	21
13:00 13:15	3	5	8	7	0	7	15
13:15 13:30	5	5	10	13	1	14	24
15:00 15:15	5	2	7	5	7	12	19
15:15 15:30	3	3	6	5	0	5	11
15:30 15:45	6	4	10	10	8	18	28
15:45 16:00	5	4	9	7	6	13	22
16:00 16:15	3	8	11	5	6	11	22
16:15 16:30	10	3	13	8	3	11	24
16:30 16:45	3	10	13	11	3	14	27
16:45 17:00	6	4	10	14	1	15	25
17:00 17:15	3	3	6	2	2	4	10
17:15 17:30	11	5	16	7	4	11	27
17:30 17:45	4	3	7	5	2	7	14
17:45 18:00	5	6	11	4	1	5	16
Total	135	112	247	182	79	261	508

December 5, 2023 Page 5 of 8 December 5, 2023 Page 6 of 8



Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

 Survey Date:
 Thursday, November 30, 2023
 WO No:
 41268

 Start Time:
 07:00
 Device:
 Miovision

Full Study Heavy Vehicles

LANARK AVE/WEST VILLAGE PRIV SCOTT ST

Time Period
07:15 07:30 0
07:30 07:45 0
07:45 08:00 0
08:00 08:15 0 0 0 0 0 0 0 0 0 0 0 1 1 0 19 0 32 0 13 1 33 65 3 08:15 08:30 0 0 0 0 1 0 1 2 2 0 28 0 46 0 17 0 46 92 4 08:30 08:45 0
08:15 08:30 0 0 0 0 1 0 1 2 2 0 28 0 46 0 17 0 46 92 4 08:30 08:45 0 0 0 0 0 0 0 0 0 1 1 1 19 0 30 0 10 0 29 59 3 08:45 09:00 0
08:30 08:45 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 19 0 30 0 10 0 29 59 3 08:45 09:00 0 0 0 0 0 0 0 0 0 0 0 0 0 23 0 37 0 14 0 37 74 3 09:00 09:15 0 0 0 0 0 0 0 1 1 1 1 1 0 23 0 34 0 10 0 33 67 3 09:15 09:30 0 0 0 0 0 0 0 0 0 0 0 0 13 0 28 0 15 0 28 56 2
08:45 09:00 0
09:00 09:15 0 0 0 0 0 0 0 1 1 1 1 0 23 0 34 0 10 0 33 67 3 09:15 09:30 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 0 23 0 13 0 28 0 15 0 28 56 2
09:15 09:30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 28 0 15 0 28 56 2
09:30 09:45 0 0 0 0 0 0 0 0 0 0 11 0 26 0 15 0 26 52 2
09:45 10:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11:30 11:45 0 0 0 0 0 0 0 0 1 1
11:45 12:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
12:00 12:15 0 0 0 0 0 0 0 1 1 1 1 9 0 18 0 8 0 17 35 1
12:15 12:30 0 0 0 0 0 0 1 2 2 0 10 0 18 0 7 1 18 36 1
12:30 12:45 0 0 1 2 0 1 1 2 4 0 7 0 17 0 9 0 17 34 1
12:45 13:00 0 0 0 0 0 0 0 1 1 1 1 0 11 0 22 0 10 0 21 43 2
13:00 13:15 0 0 0 0 0 0 1 3 3 1 8 0 22 0 12 1 21 43 2
13:15 13:30 0 0 0 0 0 0 0 0 0 0 14 0 19 0 5 0 19 38 1
15:00 15:15 0 0 0 0 2 1 0 0 2 4 1 4 1 23 1 17 0 23 46 2
15:15 15:30 0 1 0 1 1 0 0 2 3 0 2 0 17 0 15 0 18 35 1
15:30 15:45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 39 0 26 0 39 78 3
15:45 16:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 39 0 22 0 39 78 3
16:00 16:15 0 0 0 0 0 0 1 2 2 0 17 0 40 0 22 1 40 80 4
16:15 16:30 1 0 0 2 0 0 0 0 2 0 14 1 31 0 15 0 29 60 3
16:30 16:45 0 0 0 0 0 0 1 1 1 1 0 10 0 37 0 26 0 36 73 3
16:45 17:00 0 1 0 1 0 0 0 1 2 0 17 0 33 0 16 0 33 66 3
17:00 17:15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 21 0 39 78 3
17:15 17:30 0 0 0 0 0 0 0 0 1 1 1 1 15 0 38 0 22 0 37 75 3
17:30 17:45 0 0 0 1 0 0 0 0 1 0 0 0 32 1 16 0 33 65 3
17:45 18:00 0 0 1 2 0 0 0 1 3 0 13 1 32 0 18 1 33 65 3
Total: None 1 2 2 11 3 1 8 26 37 6 466 3 970 2 486 6 965 1935 9



Transportation Services - Traffic Services

Turning Movement Count - Study Results

LANARK AVE/WEST VILLAGE PRIV @ SCOTT ST

 Survey Date:
 Thursday, November 30, 2023
 WO No:
 41268

 Start Time:
 07:00
 Device:
 Miovision

Full Study 15 Minute U-Turn Total

LANARK AVE/WEST VILLAGE PRIV SCOTT ST

Time	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	1	1
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	1	0	1
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
To	otal	0	0	1	1	2

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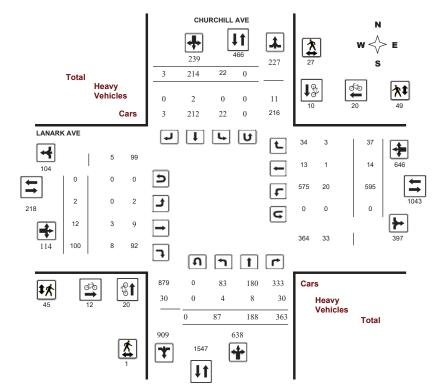
Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study Diagram





Transportation Services - Traffic Services

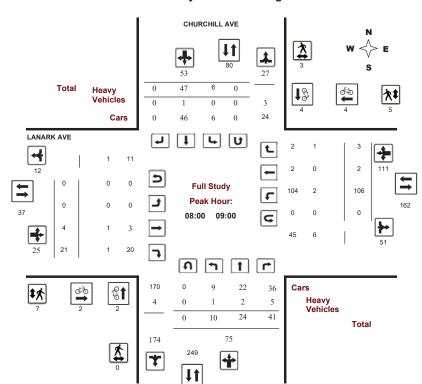
Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study Peak Hour Diagram



November 23, 2021 Page 1 of 8 November 23, 2021 Page 2 of 8

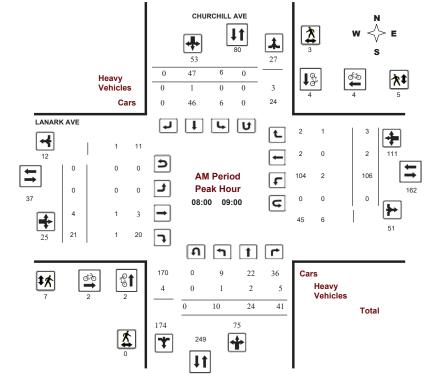


Turning Movement Count - Peak Hour Diagram

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision



Comments



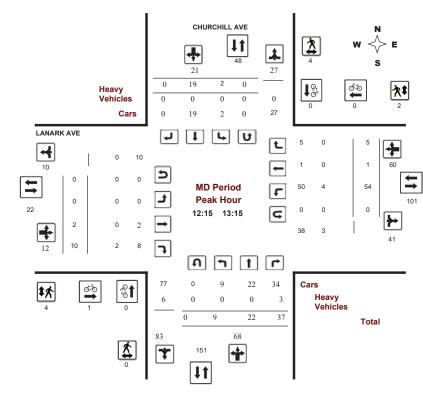
Transportation Services - Traffic Services

Turning Movement Count - Peak Hour Diagram

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision



Comments

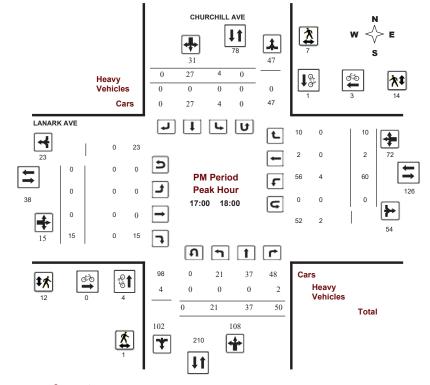


Turning Movement Count - Peak Hour Diagram

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision



Comments



Transportation Services - Traffic Services

Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study Summary (8 HR Standard)

Survey Date: Thursday, October 24, 2019 Total Observed U-Turns
Northbound: 0 Southbound: 0 990

Eastbound: Westbound: 0 CHURCHILL AVE LANARK AVE Northbound Southbound Eastbound Westbound LT ST RT ST RT RT ST RT Period ST LT TOT TOT TOT Total 08:00 09:00 09:00 10:00 11:30 12:30 12:30 13:30 15:00 16:00 16:00 17:00 17:00 18:00 Sub Total U Turns Total EQ 12Hr 1.39 Note: These values are calculated by multiplying the totals by the appropriate expansion factor Note: These volumes are calculated by multiplying the Equivalent 12 hr. totals by the AADT factor .90 AVG 24Hr

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

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

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Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study 15 Minute Increments

CHURCHILL AVE LANARK AVE

	N	orthbou	und		Sc	uthbou	nd			Е	astboui	nd		We	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	3	2	6	11	1	3	0	4	15	0	0	1	1	22	0	0	22	23	38
07:15 07:30	0	3	12	15	0	3	0	3	18	0	1	4	5	28	0	1	29	34	52
07:30 07:45	2	6	12	20	1	12	0	13	33	0	0	2	2	18	0	1	19	21	54
07:45 08:00	1	5	12	18	1	6	1	8	26	0	1	3	4	43	0	0	43	47	73
08:00 08:15	5	4	11	20	2	12	0	14	34	0	2	9	11	18	0	1	19	30	64
08:15 08:30	1	5	11	17	2	7	0	9	26	0	1	3	4	27	2	1	30	34	60
08:30 08:45	1	8	9	18	2	13	0	15	33	0	0	3	3	23	0	1	24	27	60
08:45 09:00	3	7	10	20	0	15	0	15	35	0	1	6	7	38	0	0	38	45	80
09:00 09:15	1	8	12	21	1	7	1	9	30	0	1	2	3	26	0	0	26	29	59
09:15 09:30	2	4	13	19	1	2	0	3	22	0	0	5	5	30	0	1	31	36	58
09:30 09:45	3	7	10	20	1	8	0	9	29	1	0	3	4	24	0	1	25	29	58
09:45 10:00	1	2	9	12	1	5	0	6	18	0	0	2	2	20	0	0	20	22	40
11:30 11:45	3	6	9	18	1	2	1	4	22	0	0	2	2	7	1	0	8	10	32
11:45 12:00	1	3	7	11	0	5	0	5	16	1	0	2	3	15	1	1	17	20	36
12:00 12:15	4	3	4	11	0	4	0	4	15	0	0	3	3	12	1	1	14	17	32
12:15 12:30	5	9	9	23	1	8	0	9	32	0	0	0	0	13	0	0	13	13	45
12:30 12:45	1	4	7	12	0	3	0	3	15	0	0	2	2	15	0	1	16	18	33
12:45 13:00	0	4	11	15	1	3	0	4	19	0	2	5	7	12	0	3	15	22	41
13:00 13:15	3	5	10	18	0	5	0	5	23	0	0	3	3	14	1	1	16	19	42
13:15 13:30	2	9	9	20	0	4	0	4	24	0	0	2	2	13	0	2	15	17	41
15:00 15:15	4	6	18	28	1	4	0	5	33	0	3	5	8	9	1	0	10	18	51
15:15 15:30	0	4	22	26	0	12	0	12	38	0	0	3	3	20	1	3	24	27	65
15:30 15:45	2	3	14	19	0	6	0	6	25	0	0	2	2	18	1	1	20	22	47
15:45 16:00	2	7	10	19	0	4	0	4	23	0	0	3	3	15	0	3	18	21	44
16:00 16:15	4	9	12	25	0	9	0	9	34	0	0	3	3	9	2	2	13	16	50
16:15 16:30	3	8	15	26	0	16	0	16	42	0	0	3	3	13	0	0	13	16	58
16:30 16:45	4	5	15	24	0	8	0	8	32	0	0	2	2	21	1	1	23	25	57
16:45 17:00	5	5	14	24	1	1	0	2	26	0	0	2	2	12	0	1	13	15	41
17:00 17:15	5	5	12	22	0	3	0	3	25	0	0	1	1	14	0	1	15	16	41
17:15 17:30	7	17	11	35	2	8	0	10	45	0	0	6	6	16	0	5	21	27	72
17:30 17:45	3	7	15	25	0	11	0	11	36	0	0	4	4	12	0	3	15	19	55
17:45 18:00	6	8	12	26	2	5	0	7	33	0	0	4	4	18	2	1	21	25	58
Total:	87	188	363	638	22	214	3	239	877	2	12	100	114	595	14	37	646	877	1,637

Note: U-Turns are included in Totals.



Transportation Services - Traffic Services

Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study Cyclist Volume

	(CHURCHILL AV	E		LANARK AVI		
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	1	1	0	0	0	1
07:30 07:45	2	1	3	0	1	1	4
07:45 08:00	0	1	1	1	3	4	5
08:00 08:15	0	0	0	0	2	2	2
08:15 08:30	1	2	3	2	0	2	5
08:30 08:45	1	0	1	0	2	2	3
08:45 09:00	0	2	2	0	0	0	2
09:00 09:15	0	0	0	1	1	2	2
09:15 09:30	0	0	0	1	0	1	1
09:30 09:45	1	0	1	0	0	0	1
9:45 10:00	0	0	0	0	0	0	0
11:30 11:45	0	0	0	0	1	1	1
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	0	0	0	0
12:45 13:00	0	0	0	1	0	1	1
13:00 13:15	0	0	0	0	0	0	0
13:15 13:30	0	0	0	1	0	1	1
15:00 15:15	0	0	0	1	1	2	2
15:15 15:30	4	1	5	0	1	1	6
15:30 15:45	0	0	0	1	3	4	4
15:45 16:00	3	0	3	1	0	1	4
16:00 16:15	2	0	2	0	0	0	2
16:15 16:30	1	1	2	1	0	1	3
16:30 16:45	0	0	0	0	0	0	0
16:45 17:00	1	0	1	1	2	3	4
7:00 17:15	1	0	1	0	1	1	2
7:15 17:30	1	0	1	0	0	0	1
7:30 17:45	0	0	0	0	2	2	2
7:45 18:00	2	1	3	0	0	0	3
Total	20	10	30	12	20	32	62

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Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study Pedestrian Volume

CHURCHILL AVE LANARK AVE

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	0	1	1	0	0	0	1
07:15 07:30	0	0	0	1	1	2	2
07:30 07:45	0	0	0	1	2	3	3
07:45 08:00	0	2	2	5	2	7	9
08:00 08:15	0	0	0	3	1	4	4
08:15 08:30	0	1	1	4	0	4	5
08:30 08:45	0	2	2	0	0	0	2
08:45 09:00	0	0	0	0	4	4	4
09:00 09:15	0	0	0	0	1	1	1
09:15 09:30	0	0	0	1	0	1	1
09:30 09:45	0	2	2	0	1	1	3
09:45 10:00	0	1	1	1	0	1	2
11:30 11:45	0	1	1	0	1	1	2
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	2	0	2	2
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	1	1	2	0	2	3
12:45 13:00	0	0	0	1	0	1	1
13:00 13:15	0	3	3	1	2	3	6
13:15 13:30	0	0	0	1	1	2	2
15:00 15:15	0	0	0	0	0	0	0
15:15 15:30	0	1	1	0	2	2	3
15:30 15:45	0	1	1	1	2	3	4
15:45 16:00	0	2	2	0	2	2	4
16:00 16:15	0	1	1	1	8	9	10
16:15 16:30	0	1	1	5	1	6	7
16:30 16:45	0	0	0	1	3	4	4
16:45 17:00	0	0	0	2	1	3	3
17:00 17:15	0	2	2	1	1	2	4
17:15 17:30	0	1	1	7	3	10	11
17:30 17:45	1	4	5	1	7	8	13
17:45 18:00	0	0	0	3	3	6	6
Total	1	27	28	45	49	94	122



Transportation Services - Traffic Services

Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study Heavy Vehicles

CHURCHILL AVE LANARK AVE

			OHOIN			_							i/iiiii						
	N	orthbo	und		Sc	outhbou	ınd			Е	astbour	nd		W	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	ST RT S STR LT ST RT						E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 07:30	0	1	2	3	0	0	0	0	3	0	1	0	1	1	0	1	2	3	6
07:30 07:45	1	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
07:45 08:00	0	0	2	2	0	0	0	0	2	0	0	0	0	1	0	0	1	1	3
08:00 08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
08:15 08:30	1	0	2	3	0	1	0	1	4	0	0	0	0	1	0	0	1	1	5
08:30 08:45	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	2
08:45 09:00	0	2	2	4	0	0	0	0	4	0	1	1	2	0	0	0	0	2	6
09:00 09:15	0	2	0	2	0	0	0	0	2	0	0	1	1	0	0	0	0	1	3
09:15 09:30	0	0	2	2	0	0	0	0	2	0	0	0	0	1	0	0	1	1	3
09:30 09:45	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
09:45 10:00	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	2
11:30 11:45	0	2	0	2	0	0	0	0	2	0	0	0	0	0	1	0	1	1	3
11:45 12:00	0	0	2	2	0	0	0	0	2	0	0	0	0	1	0	0	1	1	3
12:00 12:15	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
12:15 12:30	0	0	1	1	0	0	0	0	1	0	0	0	0	2	0	0	2	2	3
12:30 12:45	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
12:45 13:00	0	0	1	1	0	0	0	0	1	0	0	1	1	2	0	0	2	3	4
13:00 13:15	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1
13:15 13:30	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	2
15:00 15:15	0	0	1	1	0	0	0	0	1	0	1	1	2	1	0	0	1	3	4
15:15 15:30	0	0	1	1	0	1	0	1	2	0	0	0	0	1	0	0	1	1	3
15:30 15:45	0	0	1	1	0	0	0	0	1	0	0	1	1	0	0	0	0	1	2
15:45 16:00	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	2	3	3
16:00 16:15	0	1	1	2	0	0	0	0	2	0	0	1	1	0	0	0	0	1	3
16:15 16:30	1	0	2	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
16:30 16:45	0	0	2	2	0	0	0	0	2	0	0	0	0	1	0	0	1	1	3
16:45 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00 17:15	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	2
17:15 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2	2
17:30 17:45	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
17:45 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1
Total: None	4	8	30	42	0	2	0	2	44	0	3	8	11	20	1	3	24	35	79

November 23, 2021 Page 6 of 8 November 23, 2021 Page 7 of 8



Turning Movement Count - Study Results

CHURCHILL AVE @ LANARK AVE

 Survey Date:
 Thursday, October 24, 2019
 WO No:
 38900

 Start Time:
 07:00
 Device:
 Miovision

Full Study 15 Minute U-Turn Total CHURCHILL AVE LANARK AVE

Time F	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
To	otal	0	0	0	0	0

November 23, 2021 Page 8 of 8

Appendix C

Synchro Intersection Worksheets – Existing Conditions



Lanes, Volumes, Timings 1: Island Park & Kichi Zibi Mikan Existing AM Peak Hour

	•	-	-	•	—	*	1	1	1	-	↓	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	^	7	*	^	7		1 >		ሻሻ	1,	
Traffic Volume (vph)	188	720	24	114	211	76	0	245	132	471	716	468
Future Volume (vph)	188	720	24	114	211	76	0	245	132	471	716	468
Satd. Flow (prot)	1658	3316	1483	1658	3316	1441	0	1647	0	3216	1633	0
Flt Permitted	0.950			0.950						0.950		
Satd. Flow (perm)	1658	3316	1441	1653	3316	1441	0	1647	0	3168	1633	0
Satd. Flow (RTOR)			81			84		14			30	
Lane Group Flow (vph)	209	800	27	127	234	84	0	419	0	523	1316	0
Turn Type	Prot	NA	Perm	Prot	NA	Perm		NA		Prot	NA	
Protected Phases	9	2		13	6			16		15	12	
Permitted Phases			2			6						
Detector Phase	9	2	2	13	6	6		16		15	12	
Switch Phase												
Minimum Initial (s)	5.0	15.0	15.0	5.0	15.0	15.0		10.0		5.0	10.0	
Minimum Split (s)	10.6	30.1	30.1	10.6	30.1	30.1		29.1		11.5	29.1	
Total Split (s)	15.6	56.1	56.1	15.6	26.1	26.1		76.1		56.5	26.1	
Total Split (%)	7.6%	27.5%	27.5%	7.6%	12.8%	12.8%		37.2%		27.7%	12.8%	
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7		3.7		3.7	3.7	
All-Red Time (s)	1.9	2.4	2.4	1.9	2.4	2.4		2.4		2.8	2.4	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Lost Time (s)	5.6	6.1	6.1	5.6	6.1	6.1		6.1		6.5	6.1	
Lead/Lag								Lag		Lead		
Lead-Lag Optimize?								Yes		Yes		
Recall Mode	None	Min	Min	None	Min	Min		None		None	None	
Act Effct Green (s)	10.2	47.2	47.2	10.2	47.2	47.2		46.3		32.4	85.4	
Actuated g/C Ratio	0.06	0.29	0.29	0.06	0.29	0.29		0.29		0.20	0.53	
v/c Ratio	1.99	0.82	0.06	1.21	0.24	0.17		0.87		0.81	1.50	
Control Delay	511.5	62.5	0.2	213.7	46.9	10.1		72.1		73.1	258.5	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Delay	511.5	62.5	0.2	213.7	46.9	10.1		72.1		73.1	258.5	
LOS	F	Е	Α	F	D	В		Е		Е	F	
Approach Delay		151.5			87.6			72.1			205.8	
Approach LOS		F			F			Е			F	
Queue Length 50th (m)	~105.6	124.5	0.0	~50.8	29.7	0.0		126.4		84.4	~589.7	
Queue Length 95th (m)	#191.5	#201.4	0.0	#115.7	52.4	15.2		185.0		120.0	#739.1	
Internal Link Dist (m)		762.8			208.9			249.0			166.2	
Turn Bay Length (m)	104.5		88.0	89.6						80.0		
Base Capacity (vph)	105	1052	512	105	1052	514		739		1021	1315	
Starvation Cap Reductn	0	0	0	0	0	0		0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0		0		0	0	
Storage Cap Reductn	0	0	0	0	0	0		0		0	0	
Reduced v/c Ratio	1.99	0.76	0.05	1.21	0.22	0.16		0.57		0.51	1.00	
Intersection Summary												

Cycle Length: 204.3

Actuated Cycle Length: 161
Natural Cycle: 145

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.99

Scenario 1 210 Clearview Avenue 11:59 pm 09/04/2024 Existing

Synchro 11 Report

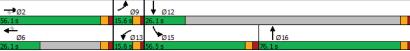
Page 1

Lanes, Volumes, Timings 1: Island Park & Kichi Zibi Mikan Existing AM Peak Hour

Intersection Signal Delay: 161.7 Intersection LOS: F
Intersection Capacity Utilization 112.5% ICU Level of Service H
Analysis Period (min) 15
Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Splits and Phases: 1: Island Park & Kichi Zibi Mikan



Intersection												
Int Delay, s/veh	2.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	24	11	14	1	6	13	9	337	23	26	819	98
Future Vol., veh/h	24	11	14	1	6	13	9	337	23	26	819	98
Conflicting Peds, #/hr	7	0	0	0	0	7	8	0	0	0	0	8
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	
Grade, %	-	0	-		0	-		0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	33	2	2	2	2	4	2	2
Mymt Flow	27	12	16	1	7	14	10	374	26	29	910	109
					•							
Major/Minor	Minor2			Minor1			Major1		ı	Major2		
Conflicting Flow All	1456	1451	973	1444	1492	394	1027	0	0	400	0	0
Stage 1	1031	1031	-	407	407	-	-	-	-	-	-	-
Stage 2	425	420	-	1037	1085	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.83	6.22	4.12	-	-	4.14	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.83			-	-		-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.83	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.297	3.318	2.218	-	-	2.236	-	-
Pot Cap-1 Maneuver	108	131	306	110	106	655	676	-	-	1148	-	-
Stage 1	281	310	-	621	547			-	-	-	-	
Stage 2	607	589	-	279	258	_	-	-	-	-	-	-
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	93	120	304	91	97	651	672	-	-	1148	-	-
Mov Cap-2 Maneuver		120	-	91	97	-		-	-	-	-	-
Stage 1	274	290	-	609	537	-	-	-	-	-	-	-
Stage 2	572	578	-	238	241			-	-		-	-
, v												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	55			23.7			0.3			0.2		
HCM LOS	F			С								
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		672	-	-	124	215	1148	-	-			
HCM Lane V/C Ratio		0.015	-	-	0.439	0.103	0.025	-	-			
HCM Control Delay (s)	10.4	0	-	55	23.7	8.2	0	-			
HCM Lane LOS		В	Α	-	F	С	Α	Α	-			
HCM 95th %tile Q(veh	1)	0	-	-	1.9	0.3	0.1	-	-			

	۶	-	*	1	+	•	1	†	~	1	ţ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	^	7	*	†	7		4		1	1	
Traffic Volume (vph)	77	349	54	32	267	28	38	262	30	33	532	81
Future Volume (vph)	77	349	54	32	267	28	38	262	30	33	532	81
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	58.7		29.5	250.0		36.5	0.0		0.0	36.5		0.0
Storage Lanes	1		1	1		1	0		0	1		0
Taper Length (m)	30.0			30.0			30.0			30.0		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.95		0.87	0.98		0.86		0.99		0.98	0.99	
Frt			0.850			0.850		0.988			0.980	
Flt Protected	0.950			0.950				0.994		0.950		
Satd. Flow (prot)	1626	1424	1483	1595	1483	1483	0	1704	0	1551	1688	0
Flt Permitted	0.473			0.351				0.753		0.527		
Satd. Flow (perm)	770	1424	1292	579	1483	1279	0	1289	0	842	1688	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			92			92		8			12	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		235.2			290.0			328.9			439.7	
Travel Time (s)		16.9			20.9			23.7			31.7	
Confl. Peds. (#/hr)	40		19	19		40	26		23	23		26
Confl. Bikes (#/hr)			51			26			5			27
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	4%	25%	2%	6%	20%	2%	2%	2%	2%	9%	2%	4%
Adi, Flow (vph)	86	388	60	36	297	31	42	291	33	37	591	90
Shared Lane Traffic (%)						-						
Lane Group Flow (vph)	86	388	60	36	297	31	0	366	0	37	681	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.5	<u> </u>		3.5			3.5	- 3		3.5	3
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		3.0			3.0			3.0			3.0	
Two way Left Turn Lane												
Headway Factor	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2	1	1	2	1	1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0	2.0	2.0	10.0	2.0	2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6	2.0	2.0	0.6	2.0	2.0	0.6		2.0	0.6	
Detector 1 Type	Cl+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	Cl+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel				· ·	· ·							
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 2 Position(m)	0.0	9.4	0.0	0.0	9.4	0.0	0.0	9.4		0.0	9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		31 - LA			31. LX			31 - LX			31 LA	

Lanes, Volumes, Timings

3: Island Park & Scott

MC

Existing AM Peak Hour Lanes, Volumes, Timings 3: Island Park & Scott

Existing AM Peak Hour

	٠	-	*	1	+	*	1	†	1	1	Ţ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SB
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4		4	8		8	2			6		
Detector Phase	4	4	4	8	8	8	2	2		6	6	
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		10.0	10.0	
Minimum Split (s)	29.0	29.0	29.0	29.0	29.0	29.0	34.0	34.0		37.0	37.0	
Total Split (s)	32.0	32.0	32.0	32.0	32.0	32.0	57.0	57.0		57.0	57.0	
Total Split (%)	33.7%	33.7%	33.7%	33.7%	33.7%	33.7%	60.0%	60.0%		60.0%	60.0%	
Maximum Green (s)	25.0	25.0	25.0	25.0	25.0	25.0	50.0	50.0		50.0	50.0	
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
All-Red Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Vehic l e Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	Max	Max	Max	Max	Max	Max	C-Max	C-Max		C-Max	C-Max	
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	12.0	12.0		15.0	15.0	
Flash Dont Walk (s)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0		15.0	15.0	
Pedestrian Calls (#/hr)	19	19	19	40	40	40	23	23		26	26	
Act Effct Green (s)	31.0	31.0	31.0	31.0	31.0	31.0		50.0		50.0	50.0	
Actuated g/C Ratio	0.33	0.33	0.33	0.33	0.33	0.33		0.53		0.53	0.53	
v/c Ratio	0.34	0.84	0.12	0.19	0.61	0.06		0.54		0.08	0.76	
Control Delay	24.5	43.2	1.3	26.3	33.5	0.2		18.1		11.9	24.4	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Delay	24.5	43.2	1.3	26.3	33.5	0.2		18.1		11.9	24.4	
LOS	С	D	Α	С	С	Α		В		В	C	
Approach Delay		35.5 D			30.0			18.1			23.7	
Approach LOS		U			С			В			С	
Intersection Summary	0.1											
Area Type:	Other											
Cycle Length: 95												
Actuated Cycle Length: 95		O NIDTI	10.00	TI 01 1								
Offset: 38 (40%), Reference	ed to phase	Z:NB1L	and 6:SB	IL, Start	or Green							
Natural Cycle: 80	المقمماليين											
Control Type: Actuated-Coo	orumated											
Maximum v/c Ratio: 0.84	7.0			1	-toroor:-	n I OC: 0						
Intersection Signal Delay: 2 Intersection Capacity Utiliza					ntersectio							
miersection Canacity Utiliza	1110N 96.0%	1		(CU Level	or Service	3 [

Splits and Phases: 3: Island Park & Scott , [⊲]†ø_{2 (R)} Ø6 (R) Scenario 1 210 Clearview Avenue Existing

Synchro 11 Report Page 8

Lane Group	Ø3	Ø7	
Detector 2 Extend (s)			
Turn Type			
Protected Phases	3	7	
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	1.0	1.0	
Minimum Split (s)	5.0	5.0	
Total Split (s)	6.0	6.0	
Total Split (%)	6%	6%	
Maximum Green (s)	2.0	2.0	
Yellow Time (s)	2.0	2.0	
All-Red Time (s)	2.0	2.0	
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes	
Vehicle Extension (s)	3.0	3.0	
Recall Mode	None	None	
Walk Time (s)			
Flash Dont Walk (s)			
Pedestrian Calls (#/hr)			
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Intersection Summary			
intersection Summary			

Lanes, Volumes, Timings
4: West Village/Lanark & Scott

Existing AM Peak Hour

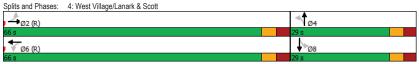
	•	\rightarrow	*	1	-	•	1	1	1	-	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SB
Lane Configurations	ሻ	1>		7	ħ		7	ĵ.		7	1>	
Traffic Volume (vph)	30	414	6	6	307	38	7	1	19	57	0	6
Future Volume (vph)	30	414	6	6	307	38	7	1	19	57	0	6
Satd. Flow (prot)	1642	1470	0	1658	1498	0	1658	1427	0	1658	1364	
Flt Permitted	0.535			0.485			0.711			0.743		
Satd. Flow (perm)	916	1470	0	829	1498	0	1173	1427	0	1261	1364	
Satd. Flow (RTOR)		2			12			21			523	
Lane Group Flow (vph)	33	467	0	7	383	0	8	22	0	63	71	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			4			8	
Permitted Phases	2			6			4			8		
Detector Phase	2	2		6	6		4	4		8	8	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	28.6	28.6		28.6	28.6		22.2	22.2		22.2	22.2	
Total Split (s)	66.0	66.0		66.0	66.0		29.0	29.0		29.0	29.0	
Total Split (%)	69.5%	69.5%		69.5%	69.5%		30.5%	30.5%		30.5%	30.5%	
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	
All-Red Time (s)	3.3	3.3		3.3	3.3		2.9	2.9		2.9	2.9	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.6	6.6		6.6	6.6		6.2	6.2		6.2	6.2	
Lead/Lag	0.0	0.0		0.0	0.0		0.2	0.2		0.2	0.2	
Lead-Lag Optimize?												
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Act Effct Green (s)	74.7	74.7		74.7	74.7		12.0	12.0		12.0	12.0	
Actuated g/C Ratio	0.79	0.79		0.79	0.79		0.13	0.13		0.13	0.13	
v/c Ratio	0.75	0.40		0.73	0.73		0.15	0.13		0.13	0.13	
Control Delay	4.1	5.9		1.7	2.2		35.6	16.3		45.0	0.4	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	4.1	5.9		1.7	2.2		35.6	16.3		45.0	0.4	
LOS	4.1 A	3.9 A		Α	2.2 A		33.0 D	10.3 B		43.0 D	0.4 A	
Approach Delay		5.8			2.2		U	21.4		U	21.3	
Approach LOS		3.6 A			2.2 A			21.4 C			21.3 C	
Queue Length 50th (m)	1.2	24.3		0.1	8.7		1.4	0.2		11.1	0.0	
Queue Length 95th (m)	4.2	48.8		m0.2	m13.4		5.3	6.6		22.5	0.0	
Internal Link Dist (m)	4.2	332.8		1110.2	211.2		5.5	80.9		22.3	82.5	
Turn Bay Length (m)	36.5	332.0		42.0	211.2		18.0	00.9		18.0	02.3	
Base Capacity (vph)	720	1157		652	1181		281	358		302	724	
Starvation Cap Reductn	720	0		002	0		201	330		0	724	
	0	0		0	0		0	0		0	0	
Spillback Cap Reductn Storage Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductin	0.05	0.40		0.01	0.32		0.03	0.06		0.21	0.10	
	0.00	0.40		0.01	0.32		0.03	0.00		0.21	0.10	
Intersection Summary												
Cycle Length: 95												
Actuated Cycle Length: 95		. ====	1016	T 0:								
Offset: 83 (87%), Reference	ed to phase	2.FBTI a	nd 6.WB	TI Start	of Green							
Natural Cycle: 55	od to pridoc		0	r L, Otart	01 010011							

Scenario 1 210 Clearview Avenue 11:59 pm 09/04/2024 Existing

Control Type: Actuated-Coordinated

Synchro 11 Report Page 8 Lanes, Volumes, Timings 4: West Village/Lanark & Scott Existing AM Peak Hour

Maximum v/c Ratio: 0.40 Intersection Signal Delay: 6.9 Intersection LOS: A Intersection Capacity Utilization 48.2% ICU Level of Service A Analysis Period (min) 15 Intersection Capacity Utilization 48.2% ICU Level of Service A Analysis Period (min) 15 Intersection LOS: A ICU Level of Service A ICU



Intersection Delay, s/veh	7.8					
Intersection LOS	Α					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	*****	1>	11011	052	4
Traffic Vol, veh/h	108	3	24	45	6	47
Future Vol. veh/h	108	3	24	45	6	47
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	2	33	8	13	2	2
Mymt Flow	120	3	27	50	7	52
Number of Lanes	1	0	1	0	0	1
	14/10					
Approach	WB		NB		SB	
Opposing Approach			SB		NB	
Opposing Lanes	0		1		1	
Conflicting Approach Left	NB				WB	
Conflicting Lanes Left	1		0		1	
Conflicting Approach Right	SB		WB			
Conflicting Lanes Right	1		1		0	
HCM Control Delay	8.2		7.4		7.6	
HCM LOS	Α		Α		Α	
Lane		NBLn1	WBLn1	SBLn1		
Vol Left, %		0%	97%	11%		
Vol Thru. %		35%	0%	89%		
		65%	3%	0%		
Vol Right, %						
Vol Right, % Sign Control		Stop	Stop	Stop		
Vol Right, % Sign Control Traffic Vol by Lane		Stop 69	111	53		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol		Stop 69 0	111 108	53 6		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol		Stop 69 0 24	111 108 0	53 6 47		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol		Stop 69 0 24 45	111 108 0 3	53 6 47 0		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate		Stop 69 0 24 45 77	111 108 0 3 123	53 6 47 0 59		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp		Stop 69 0 24 45 77	111 108 0 3 123	53 6 47 0 59		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X)		Stop 69 0 24 45 77 1 0.083	111 108 0 3 123 1 0.149	53 6 47 0 59 1 0.069		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd)		Stop 69 0 24 45 77 1 0.083 3.907	111 108 0 3 123 1 0.149 4.345	53 6 47 0 59 1 0.069 4.234		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RTOI LT Vol LT Vol LT Vol ET Vol LT Vol Degree of Util (X) Departure Headway (Hd) Convergence, Y/N		Stop 69 0 24 45 77 1 0.083 3.907 Yes	111 108 0 3 123 1 0.149 4.345 Yes	53 6 47 0 59 1 0.069 4.234 Yes		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap		Stop 69 0 24 45 77 1 0.083 3.907 Yes 902	111 108 0 3 123 1 0.149 4.345 Yes 819	53 6 47 0 59 1 0.069 4.234 Yes 833		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time		Stop 69 0 24 45 77 1 0.083 3.907 Yes 902 1.999	111 108 0 3 123 1 0.149 4.345 Yes 819 2.406	53 6 47 0 59 1 0.069 4.234 Yes 833 2.325		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HOM Lane V/C Ratio		Stop 69 0 24 45 77 1 0.083 3.907 Yes 902 1.999 0.085	111 108 0 3 123 1 0.149 4.345 Yes 819 2.406 0.15	53 6 47 0 59 1 0.069 4.234 Yes 833 2.325 0.071		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HCM Lane V/C Ratio HCM Control Delay		Stop 69 0 24 45 77 1 0.083 3.907 Yes 902 1.999 0.085 7.4	111 108 0 3 123 1 0.149 4.345 Yes 819 2.406 0.15 8.2	53 6 47 0 59 1 0.069 4.234 Yes 833 2.325 0.071 7.6		
Vol Right, % Sign Control Traffic Vol by Lane LT Vol Through Vol RT Vol Lane Flow Rate Geometry Grp Degree of Util (X) Departure Headway (Hd) Convergence, Y/N Cap Service Time HOM Lane V/C Ratio		Stop 69 0 24 45 77 1 0.083 3.907 Yes 902 1.999 0.085	111 108 0 3 123 1 0.149 4.345 Yes 819 2.406 0.15	53 6 47 0 59 1 0.069 4.234 Yes 833 2.325 0.071		

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	^	7	ሻ	^	7		ĵ»		1,2	1>	
Traffic Volume (vph)	335	165	18	171	879	954	0	488	28	141	462	404
Future Volume (vph)	335	165	18	171	879	954	0	488	28	141	462	404
Satd. Flow (prot)	1658	3316	1483	1658	3316	1483	0	1731	0	3154	1609	0
FIt Permitted	0.950			0.950						0.950		
Satd. Flow (perm)	1655	3316	1448	1653	3316	1443	0	1731	0	3149	1609	0
Satd. Flow (RTOR)			95			191		2			28	
Lane Group Flow (vph)	372	183	20	190	977	1060	0	573	0	157	962	0
Turn Type	Prot	NA	Perm	Prot	NA	Perm		NA		Prot	NA	
Protected Phases	9	2		13	6			16		15	12	
Permitted Phases			2			6						
Detector Phase	9	2	2	13	6	6		16		15	12	
Switch Phase												
Minimum Initial (s)	5.0	15.0	15.0	5.0	15.0	15.0		10.0		5.0	10.0	
Minimum Split (s)	20.6	30.1	30.1	20.6	30.1	30.1		29.1		11.5	29.1	
Total Split (s)	41.6	51.1	51.1	41.6	66.1	66.1		51.1		16.5	66.1	
Total Split (%)	23.7%	29.2%	29.2%	23.7%	37.7%	37.7%		29.2%		9.4%	37.7%	
Yellow Time (s)	3.7	3.7	3.7	3.7	3.7	3.7		3.7		3.7	3.7	
All-Red Time (s)	1.9	2.4	2.4	1.9	2.4	2.4		2.4		2.8	2.4	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Lost Time (s)	5.6	6.1	6.1	5.6	6.1	6.1		6.1		6.5	6.1	
Lead/Lag								Lag		Lead		
Lead-Lag Optimize?								Yes		Yes		
Recall Mode	None	None	None	None	None	None		None		None	None	
Act Effct Green (s)	36.0	60.0	60.0	36.0	60.0	60.0		45.0		10.0	61.5	
Actuated g/C Ratio	0.21	0.34	0.34	0.21	0.34	0.34		0.26		0.06	0.35	
v/c Ratio	1.09	0.16	0.04	0.56	0.86	1.71		1.29		0.88	1.65	
Control Delay	138.2	40.6	0.1	69.7	62.8	355.6		194.9		121.4	335.6	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Delay	138.2	40.6	0.1	69.7	62.8	355.6		194.9		121.4	335.6	
LOS	F	D	Α	Е	Е	F		F		F	F	
Approach Delay		102.4			202.8			194.9			305.5	
Approach LOS	4400	F	0.0	00.4	F	F00.0		F		00.0	F	
Queue Length 50th (m)	~146.0	23.5	0.0	60.4	168.2	~500.0		~253.8		28.6	~481.7	
Queue Length 95th (m)	#212.5	33.6	0.0	88.4	196.9	#582.7		#329.2		#50.3	#563.6	
Internal Link Dist (m)	404.5	750.5	00.0	00.0	213.6			249.0		00.0	157.2	
Turn Bay Length (m)	104.5		88.0	89.6	4404	010				80.0	=00	
Base Capacity (vph)	340	1134	558	340	1134	619		445		179	582	
Starvation Cap Reductn	0	0	0	0	0	0		0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0		0		0	0	
Storage Cap Reductn	0	0 10	0	0	0	0		0		0	0	
Reduced v/c Ratio	1.09	0.16	0.04	0.56	0.86	1.71		1.29		0.88	1.65	

Intersection Summary Cycle Length: 175.3
Actuated Cycle: Length: 175.3
Natural Cycle: 145
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 1.71

Existing PM Peak Hour HCM 2010 TWSC

2: Island Park & Clearview

Intersection Signal Delay: 214.5 Intersection Capacity Utilization 125.9% Intersection LOS: F ICU Level of Service H Analysis Period (min) 15 Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles. # 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 1: Island Park & Kichi Zibi Mikan

→ Ø2	≯ _{Ø9}	₩ Ø12	
51.1 s	41.6 s	66.1s	
◆ Ø6	√ Ø13	Ø15 Ø16	
cc 1 a	41.60	16 5 0 51 1 0	

Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR													
Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBR SBR Configurations													
Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR													
Traffic Vol, veh/h	Int Delay, s/veh	2.7											
Traffic Vol, veh/h 45 7 8 11 9 13 2 470 1 14 404 29 Future Vol, veh/h 45 7 8 11 9 13 2 470 1 14 404 29 Conflicting Peds,#hr 21 0 0 0 21 7 0 2 2 0 7 Sign Control Stop Stop Stop Stop Stop Free <	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Vol, veh/h 45 7 8 11 9 13 2 470 1 14 404 29 Future Vol, veh/h 45 7 8 111 9 13 2 470 1 14 404 29 Conflicting Peds,#hr 21 0 0 0 21 7 0 2 2 0 7 Sign Control Stop Stop Stop Stop Stop Free <	Lane Configurations		43-			43-			43			43-	
Conflicting Peds, #hr 21 0 0 0 0 21 7 0 2 2 0 7	Traffic Vol, veh/h	45		8	11		13	2		1	14		29
Sign Control Stop Stop Stop Stop Stop Stop Stop Stop Stop Free None None - Pack P		45	7	8	11		13	2		1	14	404	29
Sign Control Stop Stop Stop Stop Stop Stop Stop Stop Stop Free None None - Pack P	Conflicting Peds, #/hr	21	0	0	0	0	21	7	0	2	2	0	7
RT Channelized None - None - None - None - None Storage Length None None None - None - None Storage Length		Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length		-	-	None		-	None	_	-	None	-	-	None
Veh in Median Storage, # 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 <td>Storage Length</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Storage Length	-	-	-	-	-		-	-	-	-	-	-
Grade, % - 0 9 90 <t< td=""><td></td><td>e,# -</td><td>0</td><td>-</td><td>-</td><td>0</td><td>-</td><td>-</td><td>0</td><td>-</td><td>-</td><td>0</td><td>-</td></t<>		e,# -	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, % 2 43 2 18 33 2 2 2 2 7 2 2 2 2 2			0	-	-	0	-	-	0	-	-	0	-
Mymit Flow 50 8 9 12 10 14 2 522 1 6 449 32 Major/Minor Minor1 Minor1 Major1 Major2 Conflicting Flow All 1064 1033 472 1035 1049 546 488 0 0 525 0 0 Stage 1 504 504 529 529 529 -	Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Mymit Flow 50 8 9 12 10 14 2 522 1 16 449 32 Major/Minor Minor2 Minor1 Major1 Major2 Conflicting Flow All 1064 1033 472 1035 1049 546 488 0 525 0 0 Stage 1 504 504 529 529 -<	Heavy Vehicles, %	2	43	2	18	33	2	2	2	2	7	2	2
Major/Minor Minor2 Minor1 Major1 Major2 Conflicting Flow All 1064 1033 472 1035 1049 546 488 0 0 525 0 0 Stage 1 504 504 529 529 -<		50	8	9	12	10	14	2	522	1	16	449	32
Conflicting Flow All 1064 1033 472 1035 1049 546 488 0 0 525 0 0 Stage 1 504 504 529 529 -													
Conflicting Flow All 1064 1033 472 1035 1049 546 488 0 0 525 0 0 Stage 1 504 504 529 529 -	Major/Minor	Minor			Minor4			Major4			Major?		
Stage 1 504 504 529 529 -			4000			4040			0			0	0
Stage 2 560 529 - 506 520 - Critical Hdwy Stg 1 6.12 5.93 - 6.28 5.83 Critical Hdwy Stg 2 6.12 5.93 - 6.28 5.83 Critical Hdwy Stg 2 6.12 5.93 - 6.28 5.83 Follow-up Hdwy 3.518 4.387 3.318 3.662 4.297 3.318 2.218 - 2.263 Follow-up Hdwy 3.518 4.387 3.318 3.662 4.297 3.318 2.218 - 2.263 Follow-up Hdwy 201 198 592 196 201 538 1075 - 1017 - Stage 1 550 479 - 505 480 - Follow-up Hdwy 2.518 2.218 - 2.263 - Follow-up Hdwy 2.518 2.218 - 2.263 - Follow-up Hdwy 2.518 2.218 - 2.263 - - Follow-up Hdwy 2.518 2.218 - 2.263 - Follow-up Hdwy 2.518 2.218 - 2.263 - Follow-up Hdwy 2.518 3.624 3.818 3.8								488		U	525	U	U
Critical Hdwy 7.12 6.93 6.22 7.28 6.83 6.22 4.12 - 4.17 - - Critical Hdwy Stg 1 6.12 5.93 - 6.28 5.83 -								-	-		-		-
Critical Hdwy Stg 1 6.12 5.93 - 6.28 5.83									-	-	4.47	-	-
Critical Hdwy Stg 2 6.12 5.93 - 6.28 5.83							6.22	4.12	-	-	4.17	-	-
Follow-up Hdwy 3.518 4.387 3.318 3.662 4.297 3.318 2.218 - 2.263 - Pot Cap-1 Maneuver 201 198 592 196 201 538 1075 - 1017 - Stage 1 550 479 - 505 480							-	-	-	-	-		-
Pot Cap-1 Maneuver Stage 1 201 198 592 196 201 538 1075 - 1017 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- 0.40</td> <td>-</td> <td>-</td> <td>-</td> <td>- 000</td> <td>-</td> <td>-</td>							- 0.40	-	-	-	- 000	-	-
Stage 1 550 479 - 505 480									-	-		-	
Stage 2 513 466 - 520 484								10/5	-		1017		-
Platoon blocked, % Mov Cap-1 Maneuver 180 192 589 183 195 528 1069 - 1015 Mov Cap-2 Maneuver 180 192 - 183 195 Stage 1 546 466 - 502 478							-	-	-	-	-	-	-
Mov Cap-1 Maneuver 180 192 589 183 195 528 1069 - - 1015 - - Mov Cap-2 Maneuver 180 192 - 183 195 - <td></td> <td>513</td> <td>400</td> <td>-</td> <td>520</td> <td>484</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		513	400	-	520	484	-	-	-	-	-	-	-
Mov Cap-2 Maneuver 180 192 - 183 195 Stage 1 546 466 - 502 478		100	100	E00	100	105	E20	1060	-		101E	-	-
Stage 1 546 466 - 502 478	•								-	-		-	
							-		-		-	-	-
Staye 2 413 404 - 433 411									-	-			
	Staye 2	419	404	-	433	4/1	-	-	-	-	-	-	-
Approach EB WB NB SB	Approach	EB			WB			NB			SB		
HCM Control Delay, s 31.7 21.7 0 0.3	HCM Control Delay, s							0			0.3		
HCM LOS D C	HCM LOS	D			С								
Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR	Minor Lane/Major Myn	nt	NRI	NRT	NRR	FRI n1\	NRI n1	SBI	SRT	SBR			
Capacity (veh/h) 1069 200 252 1015		ric .			INDIN				001				
HCM Lane V/C Ratio 0.002 0.333 0.146 0.015													
HCM Control Delay (s) 8.4 0 - 31.7 21.7 8.6 0 -		١			-								
HCM Lane LOS A A - D C A A -	, , ,	1											

HUM LUS	D		C					
Minor Lane/Major Mvmt	NBL	NBT	NBR EBLn1\	NBLn1	SBL	SBT	SBR	
Capacity (veh/h)	1069	-	- 200	252	1015	-	-	
HCM Lane V/C Ratio	0.002	-	- 0.333	0.146	0.015	-	-	
HCM Control Delay (s)	8.4	0	- 31.7	21.7	8.6	0	-	
HCM Lane LOS	Α	Α	- D	С	Α	Α	-	
HCM 95th %tile Q(veh)	0	-	- 1.4	0.5	0	-	-	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	^	7	*	^	7		4		*	1	
Traffic Volume (vph)	56	415	46	55	494	71	34	145	29	60	396	99
Future Volume (vph)	56	415	46	55	494	71	34	145	29	60	396	99
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Storage Length (m)	58.7		29.5	250.0		36.5	0.0		0.0	36.5		0.0
Storage Lanes	1		1	1		1	0		0	1		0
Taper Length (m)	15.0			15.0			15.0			15.0		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor	0.98		0.90	0.98		0.86		0.99		0.97	0.98	
Frt			0.850			0.850		0.981			0.970	
Flt Protected	0.950			0.950				0.992		0.950		
Satd. Flow (prot)	1658	1548	1483	1658	1521	1483	0	1680	0	1658	1661	0
Flt Permitted	0.257			0.344				0.738		0.608		
Satd. Flow (perm)	439	1548	1334	587	1521	1278	0	1246	0	1029	1661	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			87			87		10			16	
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		241.8			297.2			328.9			441.3	
Travel Time (s)		17.4			21.4			23.7			31.8	
Confl. Peds. (#/hr)	37		29	29		37	29		24	24		29
Confl. Bikes (#/hr)			17			38			19			25
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	15%	2%	2%	17%	2%	2%	2%	2%	2%	2%	2%
Adj. Flow (vph)	62	461	51	61	549	79	38	161	32	67	440	110
Shared Lane Traffic (%)												
Lane Group Flow (vph)	62	461	51	61	549	79	0	231	0	67	550	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		3.5	<u> </u>		3.5			3.5	- 3		3.5	3
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		3.0			3.0			3.0			3.0	
Two way Left Turn Lane												
Headway Factor	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2	1	1	2	1	1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru		Left	Thru	
Leading Detector (m)	2.0	10.0	2.0	2.0	10.0	2.0	2.0	10.0		2.0	10.0	
Trailing Detector (m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Position(m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Size(m)	2.0	0.6	2.0	2.0	0.6	2.0	2.0	0.6		2.0	0.6	
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	Cl+Ex	CI+Ex	CI+Ex		CI+Ex	CI+Ex	
Detector 1 Channel	O. L.	0. LX	O. L.	0. LX	O	O. LA	O. LX	O. LA		O. LA	0. Ex	
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Detector 2 Position(m)	0.0	9.4	0.0	0.0	9.4	0.0	0.0	9.4		0.0	9.4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		OI LEX			OI! LX			OI, EX			OI. LX	
DOLECTOL & CHAILIE												

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4		4	8		8	2			6		
Detector Phase	4	4	4	8	8	8	2	2		6	6	
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0		10.0	10.0	
Minimum Split (s)	29.0	29.0	29.0	29.0	29.0	29.0	34.0	34.0		34.0	34.0	
Total Split (s)	43.0	43.0	43.0	43.0	43.0	43.0	51.0	51.0		51.0	51.0	
Total Split (%)	43.0%	43.0%	43.0%	43.0%	43.0%	43.0%	51.0%	51.0%		51.0%	51.0%	
Maximum Green (s)	36.0	36.0	36.0	36.0	36.0	36.0	44.0	44.0		44.0	44.0	
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
All-Red Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	7.0		7.0		7.0	7.0	
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes						
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0	
Recall Mode	Max	Max	Max	Max	Max	Max	C-Max	C-Max		C-Max	C-Max	
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	12.0	12.0		12.0	12.0	
Flash Dont Walk (s)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0		15.0	15.0	
Pedestrian Calls (#/hr)	29	29	29	37	37	37	24	24		29	29	
Act Effct Green (s)	42.0	42.0	42.0	42.0	42.0	42.0		44.0		44.0	44.0	
Actuated g/C Ratio	0.42	0.42	0.42	0.42	0.42	0.42		0.44		0.44	0.44	
v/c Ratio	0.34	0.71	0.08	0.25	0.86	0.13		0.42		0.15	0.74	
Control Delay	20.5	26.3	0.5	22.3	41.9	4.0		21.2		18.0	30.1	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	
Total Delay	20.5	26.3	0.5	22.3	41.9	4.0		21.2		18.0	30.1	
LOS	С	С	Α	С	D	Α		С		В	С	
Approach Delay		23.3			35.8			21.2			28.8	
Approach LOS		С			D			С			С	
Queue Length 50th (m)	5.2	75.1	0.2	7.5	94.4	0.0		28.5		7.6	84.1	
Queue Length 95th (m)	m14.0	112.1	m0.2	17.3	#155.2	7.3		48.4		16.1	125.4	
Internal Link Dist (m)		217.8			273.2			304.9			417.3	
Turn Bay Length (m)	58.7		29.5	250.0		36.5				36.5		
Base Capacity (vph)	184	650	610	246	638	587		553		452	739	
Starvation Cap Reductn	0	0	0	0	0	0		0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0		0		0	0	
Storage Cap Reductn	0	0	0	0	0	0		0		0	0	
Reduced v/c Ratio	0.34	0.71	0.08	0.25	0.86	0.13		0.42		0.15	0.74	

Intersection Summary

Area Type: Other
Cycle Length: 100

Actuated Cycle Length: 100

Offset: 2 (2%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.86

Lanes, Volumes, Timings 3: Island Park & Scott

Е	xist	ing
РΜ	Peak	Hou

Lane Group	Ø3	Ø7	
Detector 2 Extend (s)			
Turn Type			
Protected Phases	3	7	
Permitted Phases			
Detector Phase			
Switch Phase			
Minimum Initial (s)	1.0	1.0	
Minimum Split (s)	5.0	5.0	
Total Split (s)	6.0	6.0	
Total Split (%)	6%	6%	
Maximum Green (s)	2.0	2.0	
Yellow Time (s)	2.0	2.0	
All-Red Time (s)	2.0	2.0	
Lost Time Adjust (s)			
Total Lost Time (s)			
Lead/Lag	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes	
Vehicle Extension (s)	3.0	3.0	
Recall Mode	None	None	
Walk Time (s)			
Flash Dont Walk (s)			
Pedestrian Calls (#/hr)			
Act Effct Green (s)			
Actuated g/C Ratio			
v/c Ratio			
Control Delay			
Queue Delay			
Total Delay			
LOS			
Approach Delay			
Approach LOS			
Queue Length 50th (m)			
Queue Length 95th (m)			
Internal Link Dist (m)			
Turn Bay Length (m)			
Base Capacity (vph)			
Starvation Cap Reductn			
Spillback Cap Reductn			
Storage Cap Reductn			
Reduced v/c Ratio			
Intersection Summary			

Synchro 11 Report Scenario 1 210 Clearview Avenue Existing MC Page 9

Lanes, Volumes, Timings 3: Island Park & Scott

Existing PM Peak Hour

Intersection Signal Delay: 28.8 Inters
Intersection Capacity Utilization 94.8% ICU L
Analysis Period (min) 15
95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal. Intersection LOS: C ICU Level of Service F

Splits and Phases: 3: Island Park & Scott



Lanes, Volumes, Timings 4: West Village/Lanark & Scott

Existing PM Peak Hour

Page 8

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1 >		*	1 >		7	f)		7	\$	
Traffic Volume (vph)	88	564	16	13	557	36	13	2	9	49	3	32
Future Volume (vph)	88	564	16	13	557	36	13	2	9	49	3	32
Satd. Flow (prot)	1658	1584	0	1566	1565	0	1658	1358	0	1658	1349	0
Flt Permitted	0.376			0.383			0.732			0.750		
Satd. Flow (perm)	650	1584	0	621	1565	0	1164	1358	0	1270	1349	0
Satd. Flow (RTOR)		3			7			10			36	
Lane Group Flow (vph)	98	645	0	14	659	0	14	12	0	54	39	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			4			8	
Permitted Phases	2			6			4			8		
Detector Phase	2	2		6	6		4	4		8	8	
Switch Phase												
Minimum Initial (s)	10.0	10.0		10.0	10.0		10.0	10.0		10.0	10.0	
Minimum Split (s)	28.6	28.6		28.6	28.6		21.2	21.2		21.2	21.2	
Total Split (s)	71.0	71.0		71.0	71.0		29.0	29.0		29.0	29.0	
Total Split (%)	71.0%	71.0%		71.0%	71.0%		29.0%	29.0%		29.0%	29.0%	
Yellow Time (s)	3.3	3.3		3.3	3.3		3.3	3.3		3.3	3.3	
All-Red Time (s)	3.3	3.3		3.3	3.3		2.9	2.9		2.9	2.9	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	6.6	6.6		6.6	6.6		6.2	6.2		6.2	6.2	
Lead/Lag												
Lead-Lag Optimize?												
Recall Mode	C-Max	C-Max		C-Max	C-Max		None	None		None	None	
Act Effct Green (s)	78.8	78.8		78.8	78.8		13.0	13.0		13.0	13.0	
Actuated g/C Ratio	0.79	0.79		0.79	0.79		0.13	0.13		0.13	0.13	
v/c Ratio	0.19	0.52		0.03	0.53		0.09	0.06		0.33	0.19	
Control Delay	5.3	7.2		4.5	5.2		38.5	22.2		44.3	16.1	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	5.3	7.2		4.5	5.2		38.5	22.2		44.3	16.1	
LOS	Α	Α		Α	Α		D	С		D	В	
Approach Delay		7.0			5.2			30.9			32.5	
Approach LOS		Α			Α			С			С	
Queue Length 50th (m)	5.3	49.9		0.6	38.1		2.4	0.3		9.4	0.5	
Queue Length 95th (m)	11.1	75.3		m0.7	m38.4		8.0	5.3		20.9	9.6	
Internal Link Dist (m)		332.8			217.8			81.9			75.1	
Turn Bay Length (m)	36.5			42.0			18.0			18.0		
Base Capacity (vph)	512	1248		489	1233		265	317		289	335	
Starvation Cap Reductn	0	0		0	0		0	0		0	0	
Spillback Cap Reductn	0	0		0	0		0	0		0	0	
Storage Cap Reductn	0	0		0	0		0	0		0	0	
Reduced v/c Ratio	0.19	0.52		0.03	0.53		0.05	0.04		0.19	0.12	
I-1												

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Cycle Length: 100
Actuated Cycle Length: 100
Offset: 40 (40%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green

Natural Cycle: 60 Control Type: Actuated-Coordinated

Synchro 11 Report Scenario 1 210 Clearview Avenue 11:59 pm 09/04/2024 Existing

Lanes, Volumes, Timings 4: West Village/Lanark & Scott

Existing PM Peak Hour

Maximum v/c Ratio: 0.53 Intersection Signal Delay: 8.1 Intersection LOS: A Intersection Capacity Utilization 69.2% Analysis Period (min) 15 ICU Level of Service C

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 4: West Village/Lanark & Scott



Intersection						
Intersection Delay, s/veh	7.5					
Intersection LOS	Α					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W.D.L	***	1	IIOI	- ODL	4
Traffic Vol, veh/h	62	10	37	50	4	27
Future Vol., veh/h	62	10	37	50	4	27
,		0.90	0.90	0.90		0.90
Peak Hour Factor	0.90				0.90	
Heavy Vehicles, %	6	2	2	4	2	2
Mvmt Flow	69	11	41	56	4	30
Number of Lanes	1	0	1	0	0	1
Approach	WB		NB		SB	
Opposing Approach			SB		NB	
Opposing Lanes	0		1		1	
Conflicting Approach Left	NB				WB	
Conflicting Lanes Left	1		0		1	
Conflicting Approach Right	SB		WB			
Conflicting Lanes Right	1		1		0	
HCM Control Delay	7.8		7.2		7.4	
HCM LOS	A		A		A	
Lane		NBLn1	WBLn1	SBLn1		
Vol Left, %		0%	86%	13%		
Vol Thru, %		43%	0%	87%		
Vol Right, %		57%	14%	0%		
Sign Control		Stop	Stop	Stop		
Traffic Vol by Lane		87	72	31		
LT Vol		0	62	4		
Through Vol		37	0	27		
RT Vol		50	10	0		
Lane Flow Rate		97	80	34		
Geometry Grp		1	1	1		
Degree of Util (X)		0.101	0.096	0.04		
Departure Headway (Hd)		3.755	4.318	4.174		
Convergence, Y/N		Yes	Yes	Yes		
Cap		945	826	850		
Service Time		1.813	2.364	2.238		
HCM Lane V/C Ratio		0.103	0.097	0.04		
HCM Control Delay		7.2	7.8	7.4		
HCM Lane LOS		Α.	A	A		
HCM 95th-tile Q		0.3	0.3	0.1		
TOTAL COULT WILL OR		0.0	0.0	0.1		

Appendix D

Collision Data

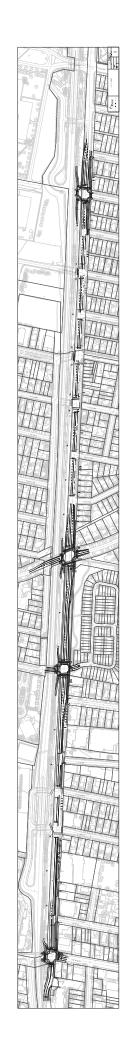


Accident Date	Accident Year	Accident Time		Environment Condition	Light	Traffic Control	Traffic Control Condition	Classification Of Accident	Initial Impact Type	Road Surface Condition	# Vehicles	# Motorcycles	# Bicycles	# Pedestrians
1/14/2019	2019	10:53	LANARK AVE btwn BEECHGROVE AVE & BRIARWAY PRIV (4TZO67)	01 - Clear	01 - Daylight	10 - No control	0	03 - P.D. only	06 - SMV unattended vehicle	01 - Dry	0	0	0	0
11/29/2021	2021	18:20	LANARK AVE btwn BEECHGROVE AVE & CHURCHILL AVE N (_3ZA02S)	01 - Clear	07 - Dark	10 - No control	0	03 - P.D. only	06 - SMV unattended vehicle	01 - Dry	0	0	0	0
6/2/2022	2022	12:38	LANARK AVE btwn BEECHGROVE AVE & CHURCHILL AVE N (_3ZA02S)	01 - Clear	01 - Daylight	10 - No control	0	02 - Non-fatal injury	99 - Other	01 - Dry	0	0	0	0
7/28/2019	2019	19:11	LANARK AVE btwn BRIARWAY PRIV & METROPOLE PRIV (4TZO9Y)	01 - Clear	01 - Daylight	10 - No control	0	02 - Non-fatal injury	06 - SMV unattended vehicle	01 - Dry	0	0	0	0

Appendix E

Scott Street Bus Detour and Cycling Concept





Appendix F

TDM Checklist



TDM Measures Checklist:

Residential Developments (multi-family, condominium or subdivision)

	Legend
BASIC	The measure is generally feasible and effective, and in most cases would benefit the development and its users
BETTER	The measure could maximize support for users of sustainable modes, and optimize development performance
*	The measure is one of the most dependably effective tools to encourage the use of sustainable modes

	TDM	measures: Residential developments	Check if proposed & add descriptions
	1.	TDM PROGRAM MANAGEMENT	
	1.1	Program coordinator	
BASIC *	1.1.1	Designate an internal coordinator, or contract with an external coordinator	
	1.2	Travel surveys	
BETTER	1.2.1	Conduct periodic surveys to identify travel-related behaviours, attitudes, challenges and solutions, and to track progress	
	2.	WALKING AND CYCLING	
	2.1	Information on walking/cycling routes & des	tinations
BASIC	2.1.1	Display local area maps with walking/cycling access routes and key destinations at major entrances (multi-family, condominium)	
	2.2	Bicycle skills training	
BETTER	2.2.1	Offer on-site cycling courses for residents, or subsidize off-site courses	

	TDM	measures: Residential developments	Check if proposed & add descriptions
	3.	TRANSIT	
	3.1	Transit information	
BASIC	3.1.1	Display relevant transit schedules and route maps at entrances (multi-family, condominium)	▽
BETTER	3.1.2	Provide real-time arrival information display at entrances (multi-family, condominium)	
	3.2	Transit fare incentives	
BASIC *	3.2.1	Offer PRESTO cards preloaded with one monthly transit pass on residence purchase/move-in, to encourage residents to use transit	
BETTER	3.2.2	Offer at least one year of free monthly transit passes on residence purchase/move-in	
	3.3	Enhanced public transit service	
BETTER *	3.3.1	Contract with OC Transpo to provide early transit services until regular services are warranted by occupancy levels (subdivision)	
	3.4	Private transit service	
BETTER	3.4.1	Provide shuttle service for seniors homes or lifestyle communities (e.g. scheduled mall or supermarket runs)	
	4.	CARSHARING & BIKESHARING	
	4.1	Bikeshare stations & memberships	
BETTER	4.1.1	Contract with provider to install on-site bikeshare station (multi-family)	abla'
BETTER	4.1.2	Provide residents with bikeshare memberships, either free or subsidized (multi-family)	
	4.2	Carshare vehicles & memberships	
BETTER	4.2.1	Contract with provider to install on-site carshare vehicles and promote their use by residents	Ø
BETTER	4.2.2	Provide residents with carshare memberships, either free or subsidized	
	5.	PARKING	
	5.1	Priced parking	
BASIC *	5.1.1	Unbundle parking cost from purchase price (condominium)	\alpha
BASIC	5.1.2	Unbundle parking cost from monthly rent (multi-family)	▽

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Version 1.0 (30 June 2017)

	TDM	measures: Residential developments	Check if proposed & add descriptions
	6.	TDM MARKETING & COMMUNICATIONS	
	6.1	Multimodal travel information	
BASIC *	6.1.1	Provide a multimodal travel option information package to new residents	△
	6.2	Personalized trip planning	
BETTER ★	6.2.1	Offer personalized trip planning to new residents	

TDM-Supportive Development Design and Infrastructure Checklist: Residential Developments (multi-family or condominium)

Legend				
REQUIRED	The Official Plan or Zoning By-law provides related guidance that must be followed			
BASIC	The measure is generally feasible and effective, and in most cases would benefit the development and its users			
BETTER	The measure could maximize support for users of sustainable modes, and optimize development performance			

	TDM-s	supportive design & infrastructure measures: Residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	1.	WALKING & CYCLING: ROUTES	
	1.1	Building location & access points	
BASIC	1.1.1	Locate building close to the street, and do not locate parking areas between the street and building entrances	
BASIC	1.1.2	Locate building entrances in order to minimize walking distances to sidewalks and transit stops/stations	
		Locate building doors and windows to ensure visibility of pedestrians from the building, for their security and comfort	
	1.2	Facilities for walking & cycling	
REQUIRED	1.2.1	Provide convenient, direct access to stations or major stops along rapid transit routes within 600 metres; minimize walking distances from buildings to rapid transit; provide pedestrian-friendly, weather-protected (where possible) environment between rapid transit accesses and building entrances; ensure quality linkages from sidewalks through building entrances to integrated stops/stations (see Official Plan policy 4.3.3)	\square
REQUIRED	1.2.2	Provide safe, direct and attractive pedestrian access from public sidewalks to building entrances through such measures as: reducing distances between public sidewalks and major building entrances; providing walkways from public streets to major building entrances; within a site, providing walkways along the front of adjoining buildings, between adjacent buildings, and connecting areas where people may congregate, such as courtyards and transit stops; and providing weather protection through canopies, colonnades, and other design elements wherever possible (see Official Plan policy 4.3.12)	

14 10

	TDM-s	supportive design & infrastructure measures: Residential developments	Check if completed & add descriptions, explanations or plan/drawing references
REQUIRED	1.2.3	Provide sidewalks of smooth, well-drained walking surfaces of contrasting materials or treatments to differentiate pedestrian areas from vehicle areas, and provide marked pedestrian crosswalks at intersection sidewalks (see Official Plan policy 4.3.10)	
REQUIRED	1.2.4	Make sidewalks and open space areas easily accessible through features such as gradual grade transition, depressed curbs at street corners and convenient access to extra-wide parking spaces and ramps (see Official Plan policy 4.3.10)	\square
REQUIRED	1.2.5	Include adequately spaced inter-block/street cycling and pedestrian connections to facilitate travel by active transportation. Provide links to the existing or planned network of public sidewalks, multi-use pathways and onroad cycle routes. Where public sidewalks and multi-use pathways intersect with roads, consider providing traffic control devices to give priority to cyclists and pedestrians (see Official Plan policy 4.3.11)	
BASIC	1.2.6	Provide safe, direct and attractive walking routes from building entrances to nearby transit stops	☑
BASIC	1.2.7	Ensure that walking routes to transit stops are secure, visible, lighted, shaded and wind-protected wherever possible	
BASIC	1.2.8	Design roads used for access or circulation by cyclists using a target operating speed of no more than 30 km/h, or provide a separated cycling facility	
	1.3	Amenities for walking & cycling	
BASIC	1.3.1	Provide lighting, landscaping and benches along walking and cycling routes between building entrances and streets, sidewalks and trails	
BASIC	1.3.2	Provide wayfinding signage for site access (where required, e.g. when multiple buildings or entrances exist) and egress (where warranted, such as when directions to reach transit stops/stations, trails or other common destinations are not obvious)	

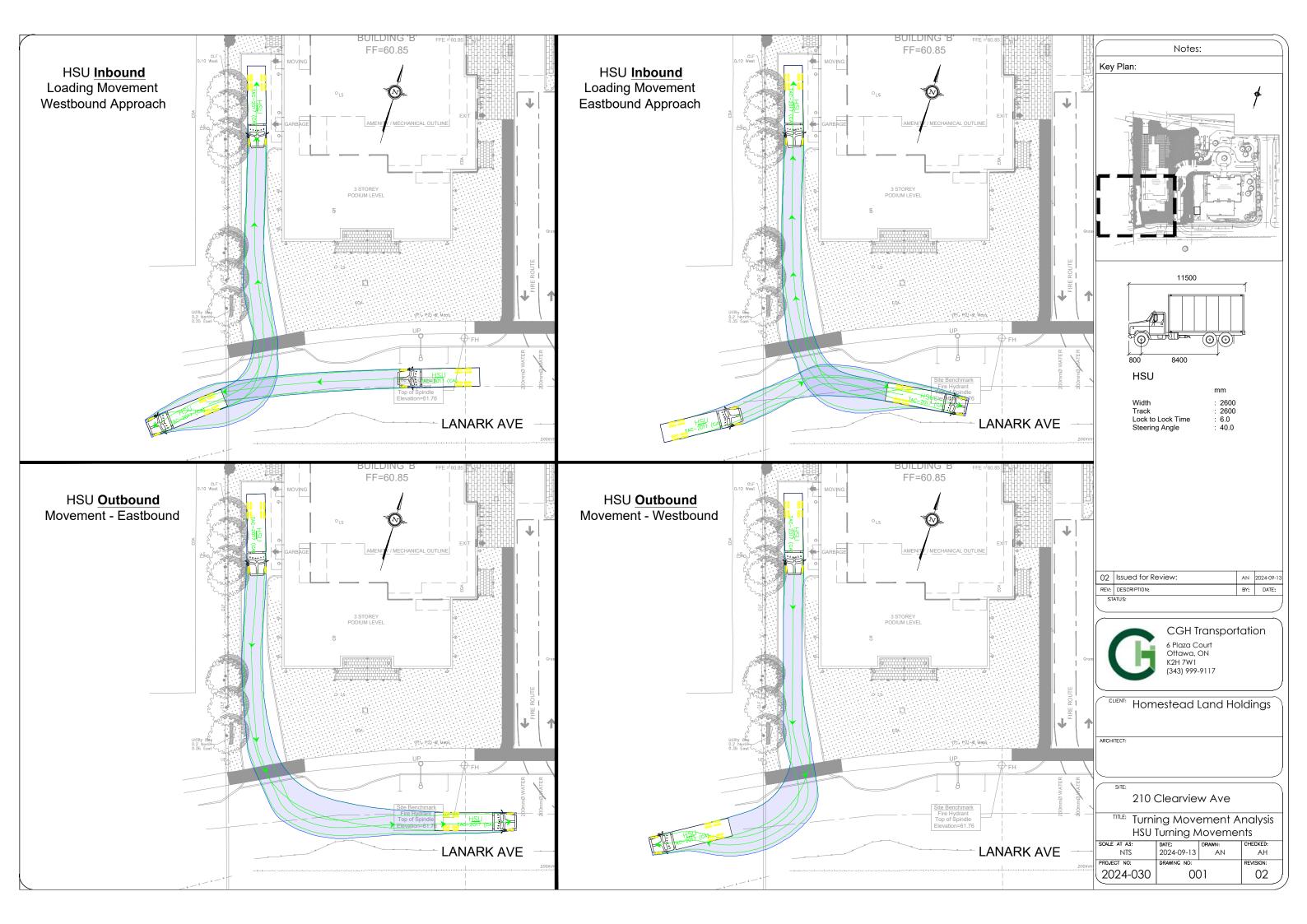
	TDM-s	supportive design & infrastructure measures: Residential developments	add descriptions, explanations or plan/drawing references
	2.	WALKING & CYCLING: END-OF-TRIP FACILI	TIES
	2.1	Bicycle parking	
REQUIRED	2.1.1	Provide bicycle parking in highly visible and lighted areas, sheltered from the weather wherever possible (see Official Plan policy 4.3.6)	
REQUIRED	2.1.2	Provide the number of bicycle parking spaces specified for various land uses in different parts of Ottawa; provide convenient access to main entrances or well-used areas (see Zoning By-law Section 111)	
REQUIRED	2.1.3	Ensure that bicycle parking spaces and access aisles meet minimum dimensions; that no more than 50% of spaces are vertical spaces; and that parking racks are securely anchored (see Zoning By-law Section 111)	
BASIC	2.1.4	Provide bicycle parking spaces equivalent to the expected number of resident-owned bicycles, plus the expected peak number of visitor cyclists	
	2.2	Secure bicycle parking	
REQUIRED	2.2.1	Where more than 50 bicycle parking spaces are provided for a single residential building, locate at least 25% of spaces within a building/structure, a secure area (e.g. supervised parking lot or enclosure) or bicycle lockers (see Zoning By-law Section 111)	☑
BETTER	2.2.2	Provide secure bicycle parking spaces equivalent to at least the number of units at condominiums or multifamily residential developments	
	2.3	Bicycle repair station	
BETTER	2.3.1	Provide a permanent bike repair station, with commonly used tools and an air pump, adjacent to the main bicycle parking area (or secure bicycle parking area, if provided)	
	3.	TRANSIT	
	3.1	Customer amenities	
BASIC	3.1.1	Provide shelters, lighting and benches at any on-site transit stops	
BASIC	3.1.2	Where the site abuts an off-site transit stop and insufficient space exists for a transit shelter in the public right-of-way, protect land for a shelter and/or install a shelter	
BETTER	3.1.3	Provide a secure and comfortable interior waiting area by integrating any on-site transit stops into the building	

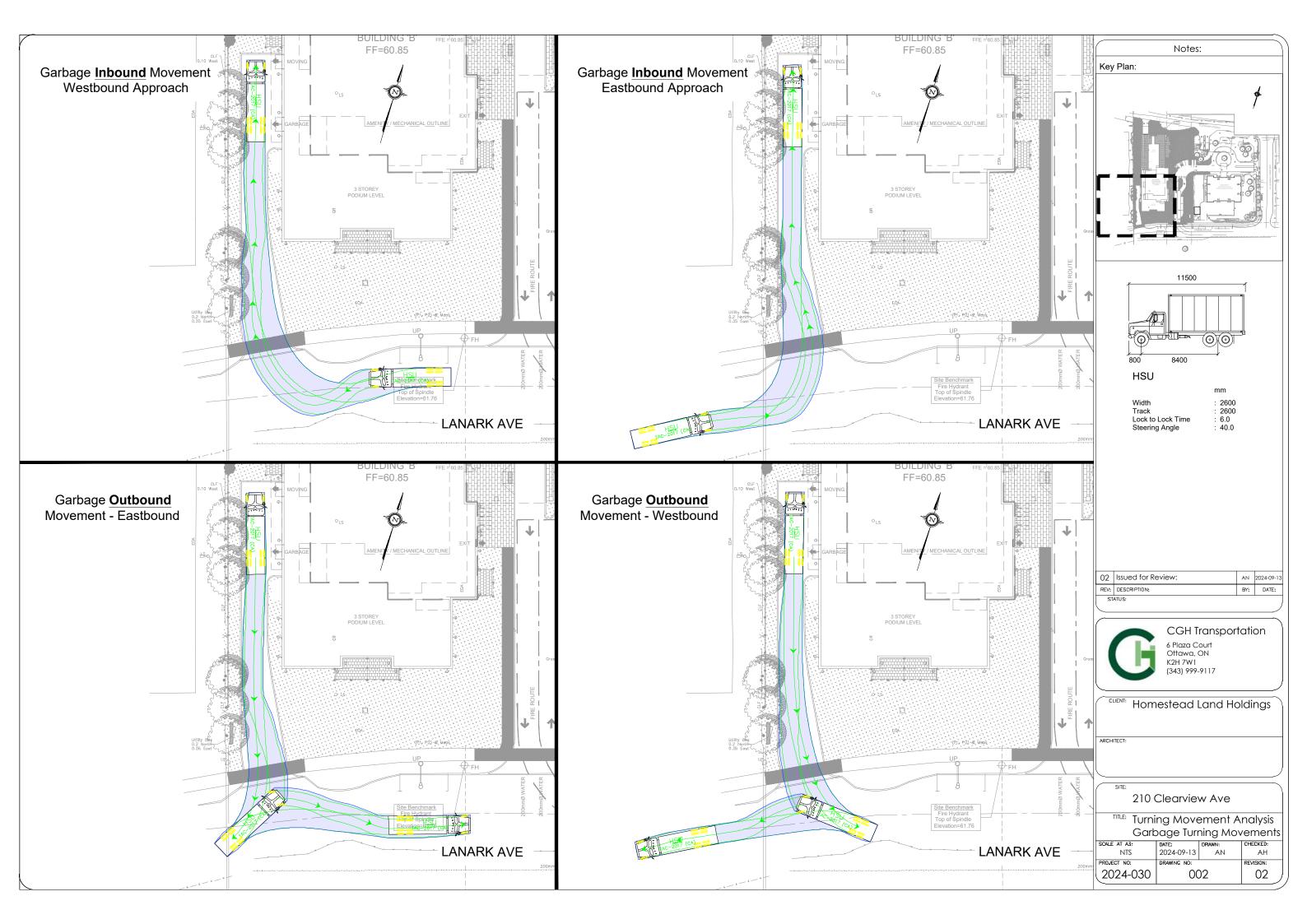
	TDM-s	supportive design & infrastructure measures: Residential developments	Check if completed & add descriptions, explanations or plan/drawing references
	4.	RIDESHARING	
	4.1	Pick-up & drop-off facilities	
BASIC	4.1.1	Provide a designated area for carpool drivers (plus taxis and ride-hailing services) to drop off or pick up passengers without using fire lanes or other no-stopping zones	\square
	5.	CARSHARING & BIKESHARING	
	5.1	Carshare parking spaces	
BETTER	5.1.1	Provide up to three carshare parking spaces in an R3, R4 or R5 Zone for specified residential uses (see Zoning By-law Section 94)	
	5.2	Bikeshare station location	
BETTER	5.2.1	Provide a designated bikeshare station area near a major building entrance, preferably lighted and sheltered with a direct walkway connection	
	6.	PARKING	
	6.1	Number of parking spaces	
REQUIRED	6.1.1	Do not provide more parking than permitted by zoning, nor less than required by zoning, unless a variance is being applied for	
BASIC	6.1.2	Provide parking for long-term and short-term users that is consistent with mode share targets, considering the potential for visitors to use off-site public parking	
BASIC	6.1.3	Where a site features more than one use, provide shared parking and reduce the cumulative number of parking spaces accordingly (see Zoning By-law Section 104)	
BETTER	6.1.4	Reduce the minimum number of parking spaces required by zoning by one space for each 13 square metres of gross floor area provided as shower rooms, change rooms, locker rooms and other facilities for cyclists in conjunction with bicycle parking (see Zoning By-law Section 111)	
	6.2	Separate long-term & short-term parking areas	
BETTER	6.2.1	Provide separate areas for short-term and long-term parking (using signage or physical barriers) to permit access controls and simplify enforcement (i.e. to discourage residents from parking in visitor spaces, and vice versa)	

Appendix G

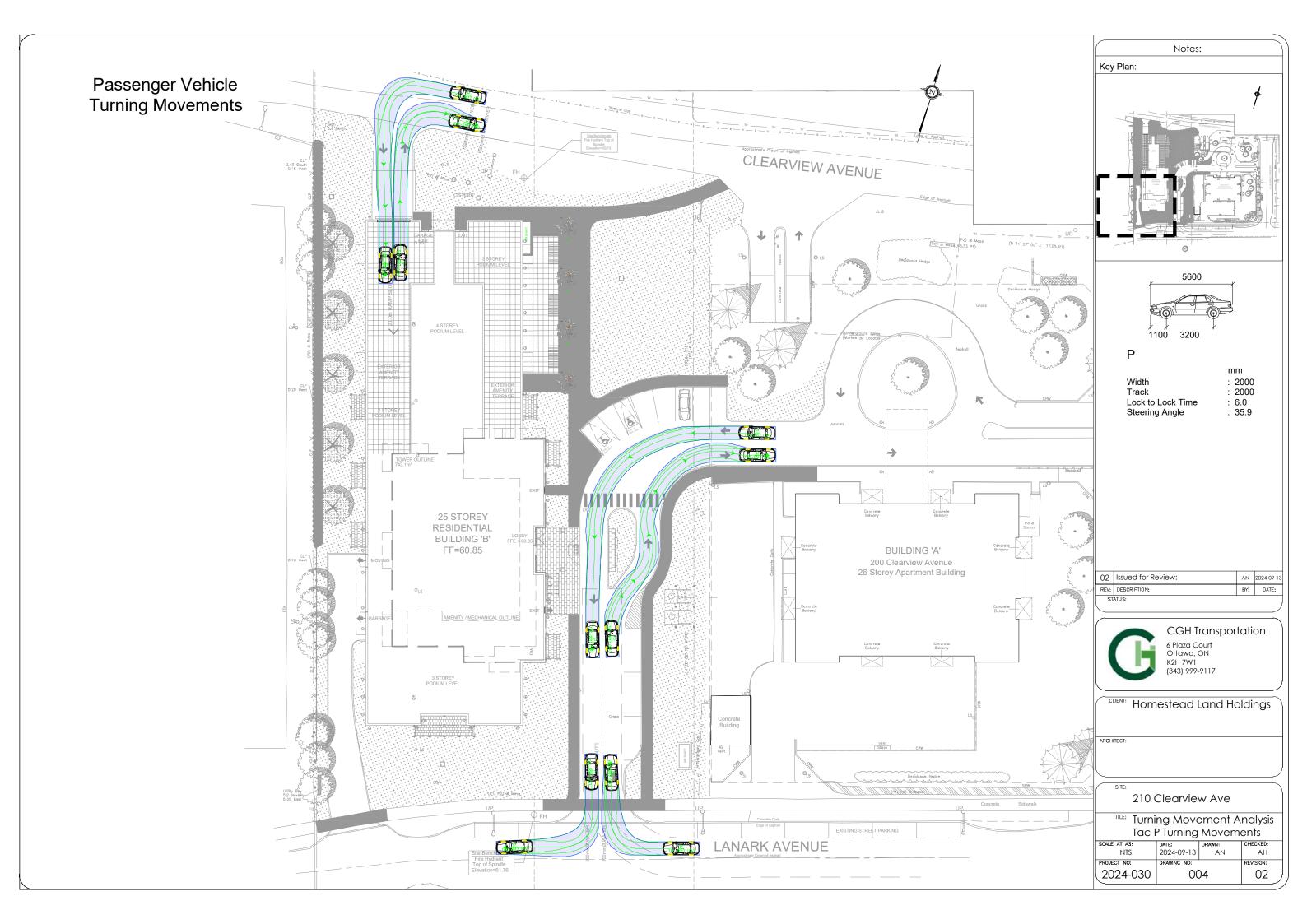
Turning Templates











Appendix H

MMLOS Analysis



Multi-Modal Level of Service - Segments Form

Consultant	CGH Transportation Inc	Project	2024-030
Scenario	Existing/Future	Date	2025-03-21
Comments			
		1	

SEGMENTS				Clearview Avenue	
OEGINEITTO			Ex/Fu	Ex	Fu
	Sidewalk Width Boulevard Width		1.8 m 0.5 - 2 m	no sidewalk n/a	1.8 m < 0.5 m
	Avg Daily Curb Lane Traffic Volume		≤ 3000	≤ 3000	≤ 3000
Pedestrian	Operating Speed On-Street Parking		> 30 to 50 km/h yes	> 30 to 50 km/h yes	> 30 to 50 km/h yes
est	Exposure to Traffic PLoS	-	В	F	В
þa	Effective Sidewalk Width				
ď	Pedestrian Volume				
	Crowding PLoS		-	-	-
	Level of Service		-	-	-
	Type of Cycling Facility		Mixed Traffic	Mixed Traffic	
	Number of Travel Lanes	•	≤ 2 (no centreline)	≤ 2 (no centreline)	
	Operating Speed		>40 to <50 km/h	>40 to <50 km/h	
	# of Lanes & Operating Speed LoS		В	В	-
Bicycle	Bike Lane (+ Parking Lane) Width				
Š	Bike Lane Width LoS		-	-	-
適	Bike Lane Blockages				
	Blockage LoS		-	-	-
	Median Refuge Width (no median = < 1.8 m)				
	No. of Lanes at Unsignalized Crossing Sidestreet Operating Speed				
	Unsignalized Crossing - Lowest LoS		_	-	-
	Level of Service		-	-	-
	Facility Type		Mixed Traffic		
ansit	Friction or Ratio Transit:Posted Speed	D	Vt/Vp ≥ 0.8		
Ę	Level of Service		D	-	-
	Truck Lane Width				
Š	Travel Lanes per Direction	-			
Truck	Level of Service		-	-	-