aercoustics

Aercoustics Engineering Ltd.
1004 Middlegate Road, Suite 1100
Mississauga, ON L4Y 0G1

Tel: 416-249-3361
Fax 416-249-3613
aercoustics.com

NOISE IMPACT STUDY – **Project: 22058.00**

20 Cairns Crescent

Huntsville, Ontario

Prepared for:

1000120857 ONTARIO INC.

Prepared by:

Dónal Finnerty, Ph.D., P.Eng.

June 5, 2025

Revision History

Version	Description	Author	Reviewed	Date
- -	Initial Report	DAF	DF	July 17, 2024
R1	Revised for updated building location	DAF	DAF	June 5, 2025

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Table of Contents

1 Introduction

1000120857 ONTARIO INC. has retained Aercoustics Engineering Limited (Aercoustics) to prepare a Noise Impact Study to support an application for a proposed residential development in the Town of Huntsville located at 20 Cairns Crescent. This noise study is intended to support an application for Site Plan Approval.

The purpose of this study was to examine the existing and future noise environment in the surrounding area and predict the development's noise impact on the surrounding noise sensitive receptors. This study also investigates any noise controls required for the development in order to abide by the noise guidelines of Ontario's Ministry of the Environment, Conservation and Parks (MECP) and to satisfy the requirements of the Town of Huntsville. This report considered the MECP guideline NPC-300 "Stationary and Transportation Sources – Approval and Planning" (August 2013).

The proposed development consists of a 4-storey multi-unit residential building. The surrounding area includes residential developments to the north and east, commercial developments to the north, west and south, as well as industrial developments to the west.

Figure 1 provides a key plan showing the proposed development location. Figure 2 shows the surrounding stationary and transportation noise sources. Figure 3 shows the critical noise sensitive receptor locations for stationary noise sources. Figure 4 shows the noise impact from off-site stationary noise sources on the proposed development. Figure 5 shows the noise impact from proposed emergency noise sources on adjacent worst-case residential receptors and the proposed development. Figure 6 shows the critical noise sensitive receptor locations for transportation noise sources. Figure 7 shows the noise impact from transportation noise sources on the proposed development.

This report is based on the following information:

- '20 Cairns Crescent, Huntsville' architectural drawings prepared by Options Architects, dated December 24, 2024;
- 'Road Needs Study' provided by the Town of Huntsville, dated January 7, 2021;
- Road traffic information provided by the Ministry of Transportation of Ontario;
- Sound power data from the Aercoustics database of mechanical equipment

The road traffic sources in the subject study area include Highway 11, Cairns Drive, Cairns Crescent, Crescent Road, and Kitchen Road. This site is not affected by aircraft traffic, vibration, or rail traffic.

2 Guidelines and Criteria

2.1 Transportation Noise

2.1.1 Outdoor Living Area (OLA)

MECP guidelines recommend that equivalent sound levels (L_{eq}-16 hr) in outdoor living areas should not exceed 55 dBA. If it is not technically, economically, or administratively feasible to achieve a level of 55 dBA, predicted sound levels between 55 dBA and 60 dBA may be acceptable provided that the future occupants of the building are made aware of the potential noise problems through appropriate warning clauses. Sound levels above 60 dBA are generally not acceptable and will warrant noise control measures.

All unenclosed balconies that are less than 4 m in depth and as such are exempt from meeting the MECP outdoor noise criteria with regards to transportation noise sources. Should the depth of the future balconies and terraces be greater than 4 m, they will be subject to the MECP sound level limit of 55 dBA.

2.1.2 Indoor Living Spaces

Indoor sound levels due to road traffic were also examined with respect to the MECP guidelines. Bedrooms are required to meet an indoor sound level (L_{eq}-8hr) of 40 dBA from road traffic during nighttime hours. The indoor daytime sound level (L_{eq}-16hr) due to road traffic should not exceed 45 dBA for living or dining rooms. Lounges, lobbies, retail or general office spaces should meet the indoor sound level of 50 dBA from road traffic. In order to achieve these levels, the MECP guidelines provide a basis for the types of windows, exterior walls, and doors that will be required based on projected outdoor sound levels.

The MECP also requires that a central air conditioning system be installed for dwellings when the daytime or nighttime outdoor transportation sound levels at the façade of the dwelling are above 65 dBA or 60 dBA, respectively. The provision for the future installation of central air conditioning must be made if:

- the nighttime sound level is greater than 50 dBA and less than or equal to 60 dBA on the outside face of a bedroom window; or
- the daytime sound level is greater than 55 dBA and less than or equal to 65 dBA on the outside face of a bedroom window or living/dining room window.

This provision involves a ducted heating system sized to accommodate the addition of central air conditioning by the occupant and a warning clause would also be required.

The required limits as per NPC-300 are summarized in Table 1.

Table 1: Noise Limits due to Road Traffic

Type of Space	Time Period	Minimum L_{eq} (dBA) Road Traffic
Living/dining, den areas of residences, hospitals, nursing homes, schools, day-care centres (Indoor)	07:00 – 23:00	45 dBA
	23:00 – 07:00	45 dBA
Sleeping quarters (Indoor)	07:00 – 23:00	45 dBA
	23:00 – 07:00	40 dBA
Outdoor Living Areas (OLA)	07:00 – 23:00	55 dBA
	23:00 – 07:00	--

2.2 Stationary Noise Sources

Guideline sound level limits pertaining to stationary noise sources per NPC-300 are summarized in Table 2. The sound level limit at a point of reception, expressed in terms of the one-hour equivalent sound level (L_{eq}-1hr), is the higher of the applicable exclusion limit value, or the background sound level for that point of reception.

The subject site is classified as a Class 2 urban area in which background sound levels are dominated by the activities of people or road traffic during daytime hours and evening and nighttime background sound levels defined by natural environment and infrequent human activity.

Table 2: Noise Exclusion Limits – Stationary Noise Sources – Class 2

Time of Day	Sound Level Exclusion Limit Plane of Window*	Sound Level Exclusion Limit Outdoors
Day (07:00 to 19:00)	50 dBA	50 dBA
Evening (19:00 to 23:00)	50 dBA	45 dBA
Night (23:00 to 07:00)	45 dBA	--

*or the minimum existing hourly background sound level L_{eq}, whichever is higher

The background sound level may increase the sound level limit for some of the receptors in this study. For conservatism and simplicity, the exclusion limit was used for all receptors in this study.

Note that for Class 2 areas, the plane of window limits apply to a window that is assumed to be operable. The sound level limits listed in Table 2 for an outdoor point of reception define the point of reception as any area in the development that is amenable for use by residents.

2.3 Emergency Noise sources

The sound level limits for emergency noise sources operating during non-emergency situations are established in the MECP Publication NPC-300. For sound from emergency noise sources operating during non-emergency situations, the sound level limit at a point of reception is 5 dB greater than the sound level limits otherwise applicable to stationary sources. Emergency noise sources are assessed independently of other stationary sources of noise.

3 Sound Level Prediction Procedure

3.1 Road Traffic Noise Calculations Procedure

The dominant road traffic noise sources in the subject area include Highway 11 to the northwest, Cairns Drive, Cairns Crescent and Crescent Road to the north, and Kitchen Road to the east.

Road traffic sound level calculations were performed using the U.S. Department of Transportation's Traffic Noise Model Version (TNM) Version 2.5; within Datakustik's CadnaA Noise Prediction Software.

The equivalent sound levels (L_{eq}) due to road traffic were calculated at worst-case noise sensitive receptors in the proposed development. Sound levels were also predicted at the outdoor living areas on Level 4 and to the southeast of the building. Refer to Appendix A for plans showing the locations of the OLAs.

3.2 Road Traffic Data

Road traffic noise predictions were based on the road traffic data outlined in Table 3 below. The Annual Average Daily Traffic (AADT) numbers were obtained from the Town of Huntsville and the Ministry of Transportation of Ontario. This data was extrapolated to an ultimate time frame of ten years past expected occupancy of the development to account for future buildout of the community. The fraction of that traffic that is trucks was not available and conservative estimates were made. Copies of the received data are included in Appendix C.

Table 3: Road Traffic Volumes

	Highway 11	Cairns Drive	Cairns Crescent	Crescent Road	Kitchen Road North of Cairns Crescent	Kitchen Road South of Cairns Crescent
Source ID	T01 & T02	T03	T04	T05	T06	T07
24-hour Volumes (AADT)	12,400	1,500	750	300	1,200	900
Years Projected	15	21	21	21	21	21
Growth Rate (%)	2	2	2	2	2	2
Ultimate AADT	16,689	2,273	1,137	455	1,819	1,364
No. of Lanes	4	2	2	2	2	2
Day/Night Split (%)	90/10	90/10	90/10	90/10	90/10	90/10
% of Heavy Trucks*	2.5	2.5	2.5	2.5	2.5	2.5
% of Medium Trucks*	2.5	2.5	2.5	2.5	2.5	2.5
Posted Speed (km/hr)	100	40	40	40	40	40

*Data for truck percentages and splits was not available, a conservative assumption was used.

3.3 Stationary Noise Calculations Procedure

The stationary noise prediction model was generated using Datakustik's CadnaA Noise Prediction Software. This model is based on established noise prediction methods outlined in the ISO 9613-2 standard "*Acoustic-Attenuation of sound during propagation outdoors – Part 2: General method and calculation*". Sound levels were predicted using conditions of downwind propagation, generally with hard ground modeled in applicable areas such as paved roads, parking lots, and open water.

Surrounding land uses include commercial, industrial and residential developments. A detailed analysis was conducted to verify the degree of noise impact from nearby stationary sources of concern. Figure 2 shows the location of all the noise sources considered for this assessment.

Off-site stationary noise sources were approximated from observations conducted by Aercoustics' personnel during a site visit on March 9, 2023. The outline of stationary noise sources is as follows:

- Seven mechanical roof top units located on top of the Muskoka Good Food Co-op Store.

The noise data used for the off-site stationary sources were approximated using data from measurements conducted by Aercoustics personnel on similar equipment. The sound power levels of all stationary noise sources are outlined in Table 4 below.

Table 4: Stationary Noise Sources

ID	Noise Source	Location	Sound Power Level (dBA)
S01 – S07	20 Ton Rooftop Unit	Muskoka North Good Food Co-op Rooftop	94

Details regarding the proposed on-site steady stationary noise sources are not currently available.

3.4 Emergency Noise Calculations Procedure

Two emergency generators are provided for emergency uses and are located on top of the development on either side of the mechanical penthouse. The generators are 300 kW and assumed to have a sound pressure level of 75 dBA at 7 m. Emergency noise sources are assessed independently and are based on measurements of similar equipment from the AEL database.

The sound power levels of all emergency noise sources are outlined in Table 5 below.

Table 5: Emergency Noise Sources

ID	Noise Source	Location	Sound Power Level (dBA)
S08 – S09	Emergency Generator	Proposed Development Rooftop	103

4 Sound Level Predictions Results

4.1 Transportation Noise

Table 6 lists the predicted 16-hour daytime and 8-hour nighttime L_{eq} road traffic sound levels on the proposed development receptors as shown in Figure 8.

Table 6: Predicted Sound Levels Due to Road Traffic

Receptor ID	Receptor Height	Location	Predicted Leq (dBA)	
			Day	Night
C01	14.0 m	West Façade	53	46
C02	14.0 m	North Façade	54	47
C03	14.0 m	North Façade	53	46
C04	15.0 m	East Façade	52	45
C05	15.0 m	South Façade	47	41
C06	15.0 m	South Façade	47	41
OLA01	15.1 m	Level 4 Outdoor Amenity Space	30	--
OLA02	1.5 m	Ground Level Amenity Area	53	--

4.2 Stationary Noise

4.2.1 Off-Site Noise Sources

The one-hour equivalent sound level (L_{eq}-1hr), daytime, evening, and nighttime was predicted for each point of reception as shown in Figure 3.

Table 7 below lists the daytime and nighttime sound levels due to stationary sources in the surrounding areas at the worst-case receptor locations of the proposed development. Figure 5 shows sound levels and contours of sound pressure levels at 14 m due to off-site stationary noise sources. Sample calculations are provided in Appendix E.

Table 7: Predicted Sound Levels Due to Proposed Off-Site Stationary Noise Sources

Receptor ID	Receptor Height (m)	Description	Predicted L_{eq} (dBA)		Applicable Sound Level Limit (dBA)		Compliance
			Day	Night	Day	Night	
R01	14.0 m	West Façade	46	43	50	45	Yes
R02	14.0 m	South Façade	46	43	50	45	Yes
R03	15.1 m	Level 4 Amenity Area	32	--	50	--	Yes
R04	1.5 m	Outdoor Amenity Area	38	--	50	--	Yes

4.2.2 Emergency Noise

Table 8 below shows the maximum predicted sound levels due to emergency noise sources at worst-case noise sensitive receptors identified in Figure 3. Figure 5 shows sound levels and contours of sound pressure levels at 4.5 m due to emergency noise sources.

Table 8: Predicted Sound Levels Due to Emergency Noise Sources

Receptor ID	Receptor Height	Description	Predicted L_{eq} (dBA)	Applicable Sound Level Limit (dBA)		Compliance
				Day	Night	
R05	1.5 m	Single Storey Dwelling	50	55	50	Yes
R06	1.5 m	Single Storey Dwelling	46	55	50	Yes
R07	4.5 m	Two Storey Dwelling	46	55	50	Yes
R08	4.5 m	Two Storey Dwelling	46	55	50	Yes

5 Noise Control Recommendations

5.1 Transportation Noise

5.1.1 Outdoor Living Areas

No mitigation is required for the outdoor living area of the proposed development, as the sound levels at the OLA were not predicted to exceed the 55 dBA limit.

5.1.2 Indoor Living Spaces

Indoor sound levels were examined with respect to NPC-300 as summarized in Section 2 of this report. The worst-case impact of the daytime and nighttime road traffic at the façade of the proposed development is predicted to be 51 dBA and 48 dBA, respectively. NPC-300 indicates that upgraded construction may be required if the predicted sound levels due to road traffic at the façade exceed 65 dBA and 60 dBA during the daytime and nighttime respectively. As the predicted sound levels are significantly below these guideline levels, construction of the exterior walls and windows that meets the requirements of the Ontario Building Code are expected to be sufficient to meet the indoor sound level limits.

Further, the predicted levels do not require any ventilation upgrades.

5.2 Stationary Noise Sources

5.2.1 Off-Site Stationary Sources

No noise mitigation is required to account for the noise impact of existing stationary sources in the surrounding area. It is recommended that Warning Clause Type E be included on all purchase and tenancy agreements to alert potential residents that noise from off-site noise sources may at times be audible. Sample wording for the warning clause is included in Section 7.

5.2.2 On-Site Stationary Sources

Details regarding the on-site steady stationary noise sources are not currently available. When the details of these noise sources are available the noise impact of the proposed development should be confirmed to be in compliance with the appropriate sound level limits by a qualified acoustic consultant. Given the locations of the mechanical penthouse and the surrounding noise sensitive receptors the noise impact of the proposed development is expected to comply with the appropriate sound level limits using standard design methods.

6 Conclusions

1000120857 ONTARIO INC. has retained the services of Aercoustics Engineering Limited to prepare a Noise Impact Study to support the Site Plan Approval application for the proposed development at 20 Cairns Crescent in the Town of Huntsville, Ontario.

The results of this study indicate that no upgrades to the exterior wall and glazing construction is required and that construction meeting the minimum requirements of the Ontario Building Code will provide sufficient mitigation to satisfy the indoor sound level limits set out by the MECP.

It is predicted that the sound levels at the noise sensitive receptors of the proposed development and surrounding noise sensitive receptors will be in compliance with the MECP guidelines.

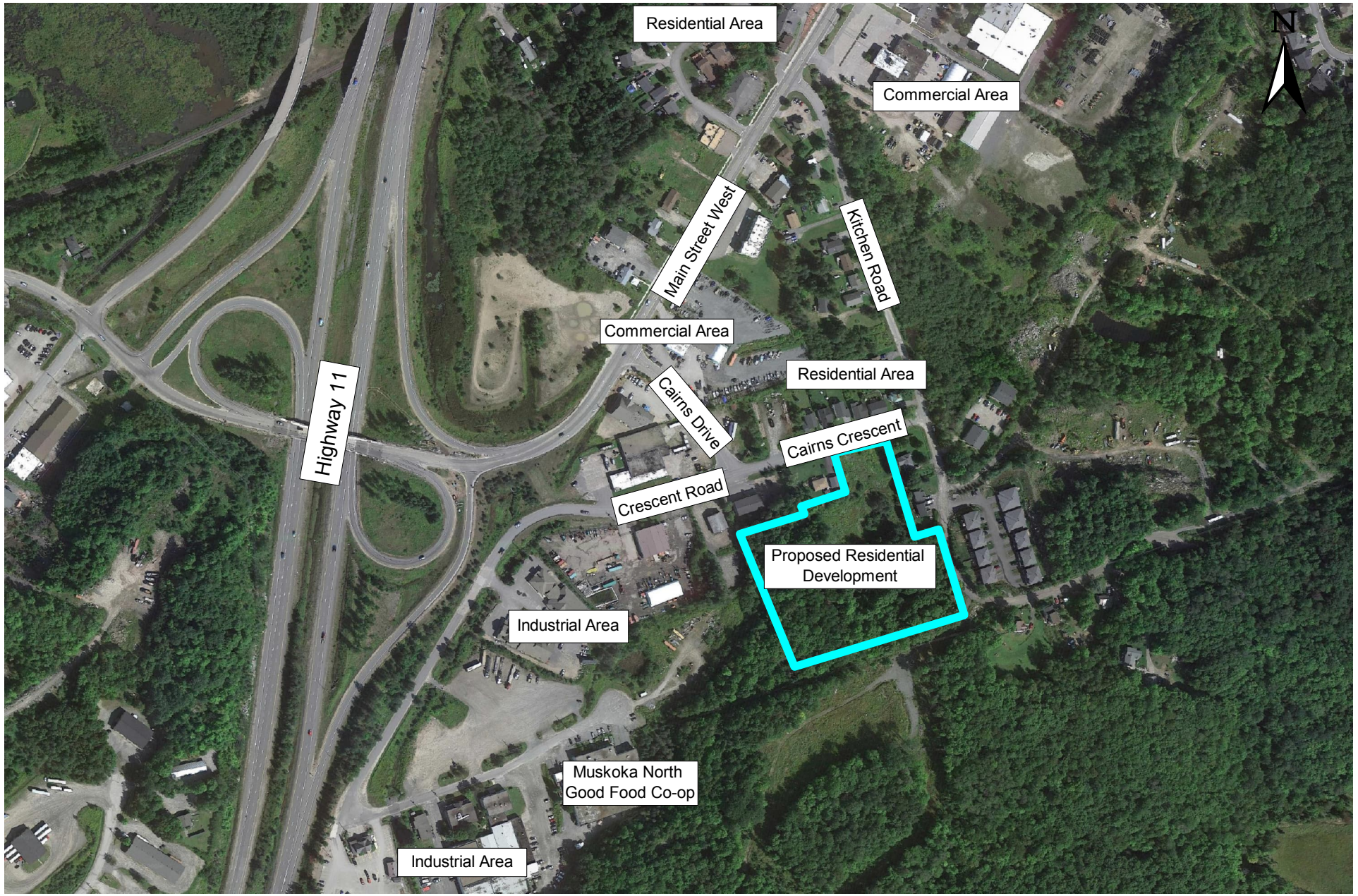
Should any of the plans or information used in the completion of this report change, a detailed review should be completed by a qualified acoustical consultant to ensure the sound level limits are met.

7 Warning Clauses

Sample warning clauses for the inclusion on all agreements of purchase and sale or tenancy agreements of the proposed development:

Warning Clause Type E:

"Purchasers/tenants are advised that due to the proximity of the adjacent industry, noise from the industry may at times be audible.



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Reviewed by: DF
Date: June, 2025
Revision: 1

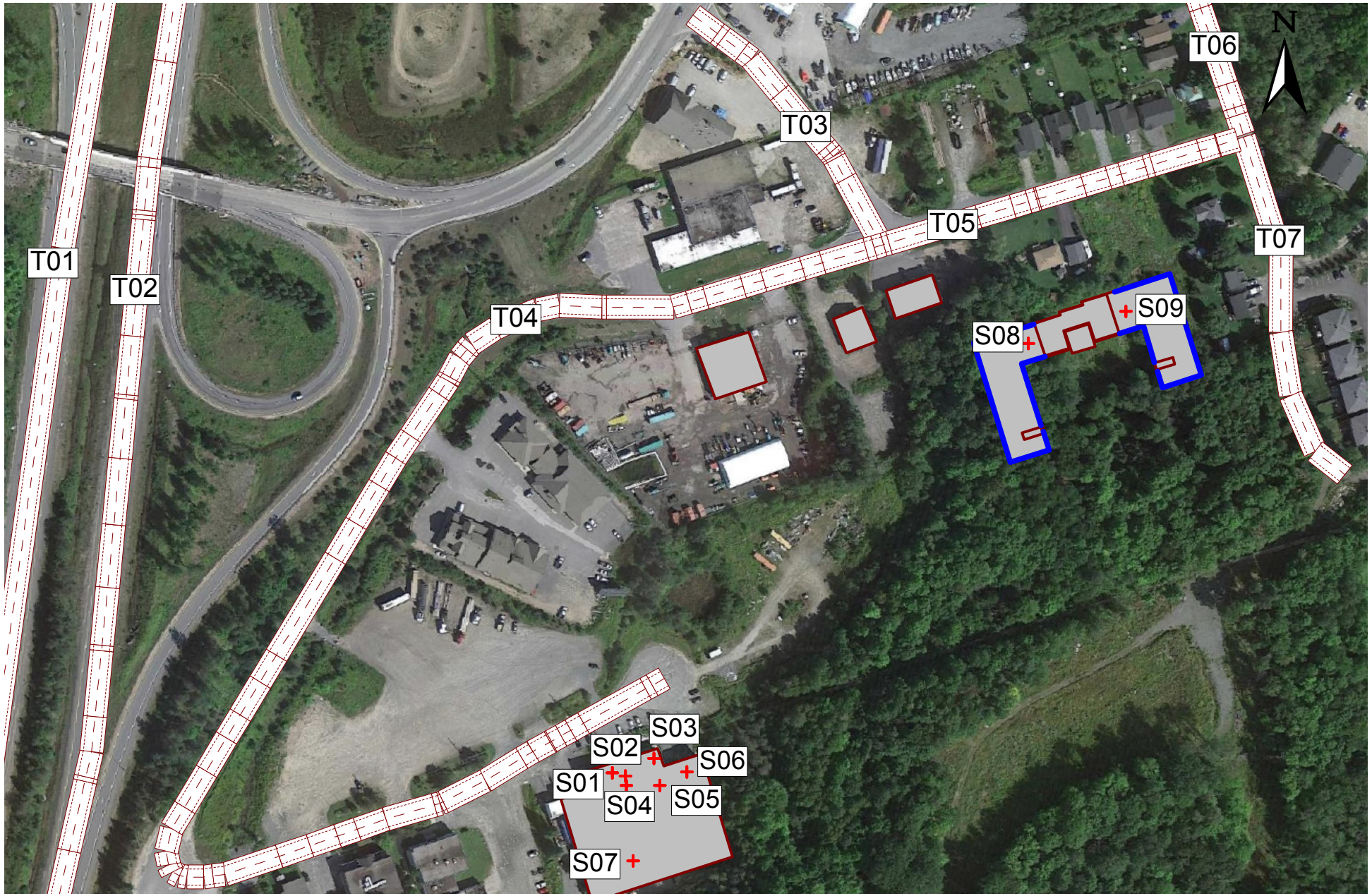
Project Name

20 Cairns Crescent Noise Impact Study

Figure Title

Key Plan Showing Site Location and Surrounding Area

Figure 1



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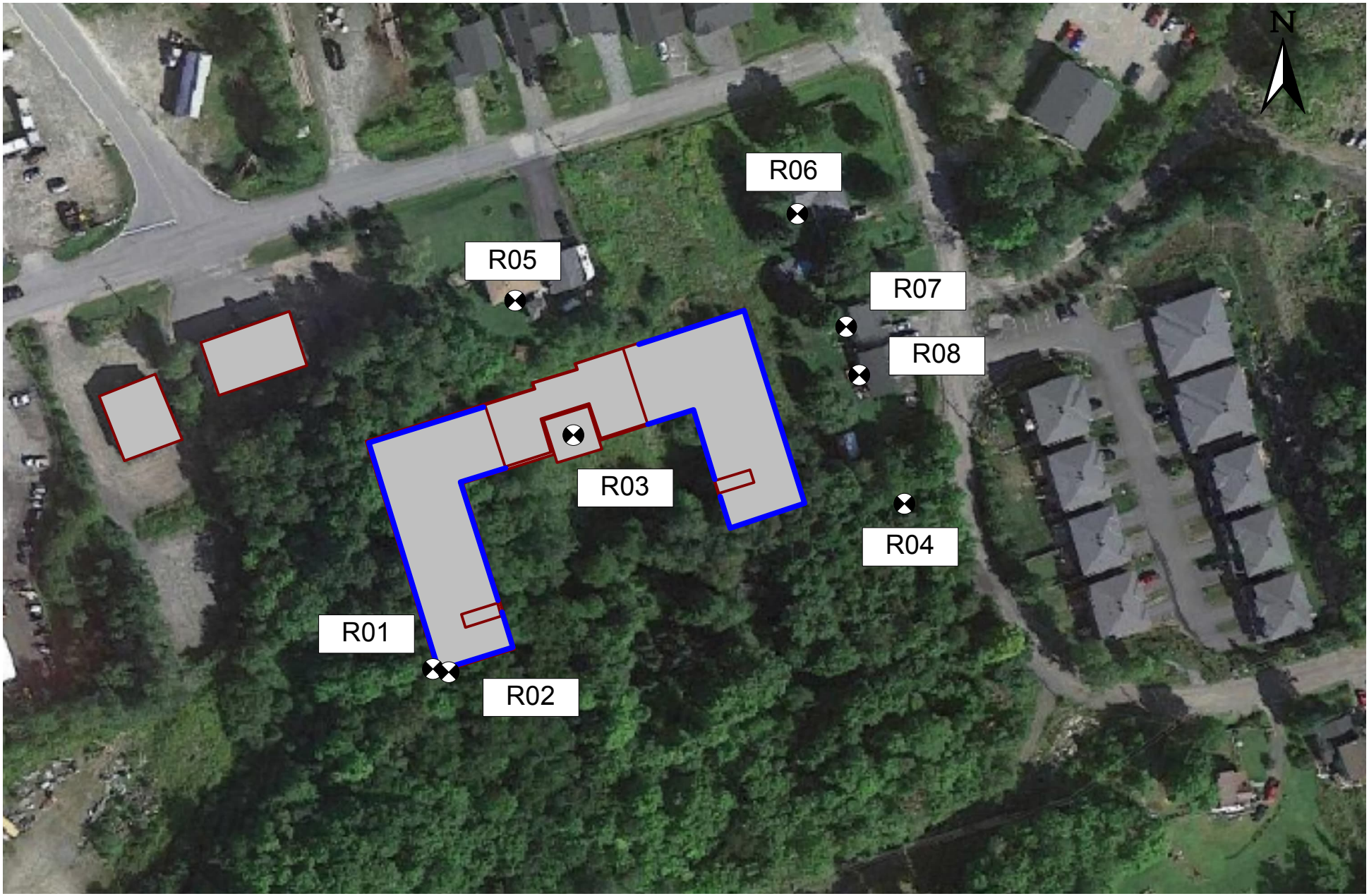
20 Cairns Crescent Noise Impact Study

Figure Title

Noise Source Locations

Figure 2



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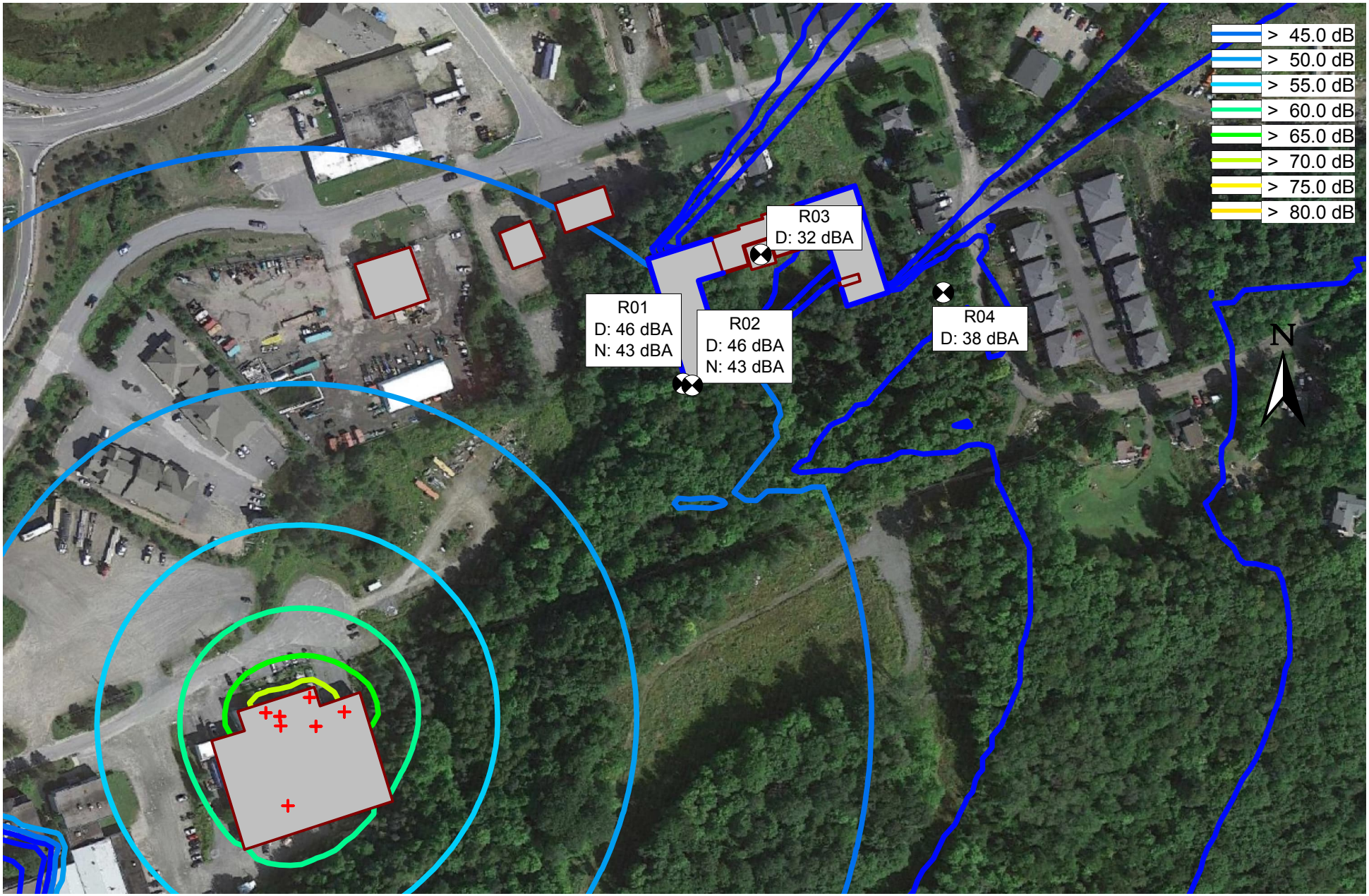
Project ID: 22058.00	**Project Name**
Scale: NTS Drawn by: DAF Reviewed by: DF Date: June, 2025 Revision: 1	20 Cairns Crescent Noise Impact Study
	Figure Title Noise Sensitive Receptor Locations - Stationary Noise

Figure 3



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20 Cairns Crescent Noise Impact Study

Figure Title

Off Site Stationary Noise Source Impact - Contours of Sound Pressure Level at 6.5 m

Figure 4

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Figure Title

Emergency Noise Source Impact - Contours of Sound Pressure Levels at 4.5 m

Figure 5

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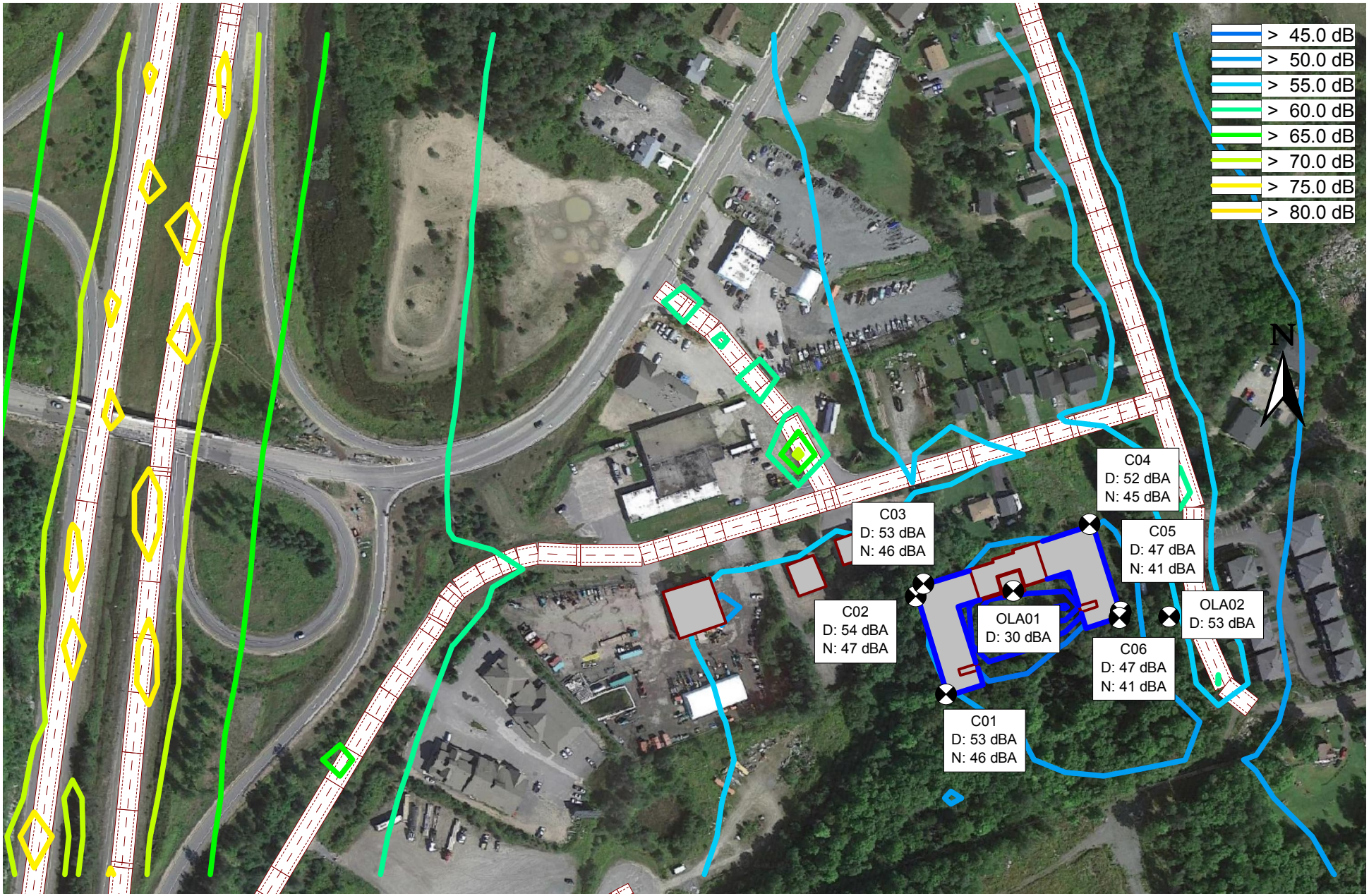
Figure Title

Noise Sensitive Receptor Locations - Transportation Noise

Figure 6



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Revision: 1

Project Name

20 Cairns Crescent Noise Impact Study

Figure Title

Transportation Noise Source Impact

Figure 7

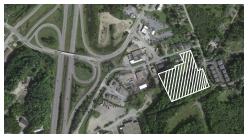
Appendix A
Site Plan & Drawings

20 CAIRNS CRESCENT, HUNTSVILLE

CITY OF HUNTSVILLE

THE INFORMATION FOR THIS SITE PLAN HAS OBTAINED FROM A COPY OF A SURVEY PLAN PREPARED BY MAUGHAN SURVEYORS. THE INFORMATION SHOWN HEREON, INCLUDING GRADES SHALL NOT BE USED FOR ANY LEGAL / ZONING / OR CONSTRUCTION PURPOSE WITHOUT CONFIRMING THE ACCURACY THERE OF BY REFERENCE TO THE APPLICABLE SURVEY.

KEY PLAN - NTS



CONTEXT PLAN - NTS

- LOT AREA-

Name	Area (Metric)	Area (Imperial)
20 Cairns Crescent	21693.20 m²	233504 ft²

GROSS FLOOR AREA - 4 STORY

Level	Area	Area
LEVEL 1	3178.79 m²	34226.83 ft²
LEVEL 2	3138.51 m²	33781.16 ft²
LEVEL 3	3138.51 m²	33781.16 ft²
LEVEL 4	3014.56 m²	32446.45 ft²
Grand total	12470.37 m²	134437.69 ft²

NET SALABLE AREA - APARTMENT

LEVEL	UNIT COUNT	SQ.M	SQ.FT
LEVEL 1	44	2,622.92 m²	28,232 ft²
LEVEL 2	44	2,613.22 m²	28,128 ft²
LEVEL 3	44	2,613.22 m²	28,128 ft²
LEVEL 4	44	2,551.61 m²	28,027 ft²
TOTAL	176	10,350.97 m²	111,416 ft²

PROPOSED RESIDENTIAL/UNIT MIX

UNIT TYPE	UNIT COUNT	AREA SQ.M	AREA SQ.FT	PERCENTAGE
1 BED	121	6,450.10 m²	69,428 ft²	68%
1 BED+DEN	10	594.62 m²	6,400 ft²	5%
2 BED	14	952.37 m²	9,175 ft²	8%
2 BED+DEN	19	1,439.48 m²	15,139 ft²	10%
3 BED	12	1,947.29 m²	11,273 ft²	7%
TOTAL: 176	176	11,383.87 m²	111,416 ft²	98%

INDOOR AMENITY PROVIDED

Level	SQ.M	SQ.FT
LEVEL 2	131.00 m²	1410.08 ft²
LEVEL 3	131.00 m²	1410.08 ft²
TOTAL	262.00 m²	2820.17 ft²

OUTDOOR AMENITY PROVIDED

Level	SQ.M	SQ.FT
LEVEL 1	424.36 m²	4567.81 ft²
TOTAL	424.36 m²	4567.81 ft²

AMENITY AREA (OUTDOOR+INDOOR) PROVIDED

SQ.M	SQ.FT
686.37 m²	7387.97 ft²

ZONING INFORMATION -COMMUNITY PLANNING PERMIT BY-LAW 2022-97 - R4

ITEM NAME	ALLOWED / REQUIRED	PROPOSED
East Yard Setback		12.80 m
North Yard Setback		8.0 m
South Yard Setback		59.72 m
West Yard Setback		23.96 m
Building Height	11.0m	10.53m
Lot Coverage		15%
GFA		13467 sq.m
Density (FSI)		0.57
Total Residential Units Proposed		176
Total Parking Proposed	255	231(INCL. 6 B.F.)

REQUIRED PARKING RATIO

RES. UNIT COUNT	REQUIRED PARKING RATIO 1.25 PER UNIT PLUS 1 SPACE PER 5 UNIT
176	255

NOTE: PARKING REQUIREMENTS FOLLOWING REQUIREMENTS OF COMMUNITY PLANNING PERMIT BY LAW 2022-97 (CONSOLIDATED MAY 22, 2024)

PROPOSED PARKING RATIO

RES. UNIT COUNT	RESIDENTIAL CAR PARKING RATIO 1.045 PER UNIT	VISITOR CAR PARKING RATIO 0.26 PER UNIT
176	184	45
	231	

NOTE - DEFICIENCY OF 24 SPACES FROM THE REQUIRED PARKING INACCORDANCE TO COMMUNITY PLANNING PERMIT BY LAW 2033-97 (CONSOLIDATED MAY 22, 2024)

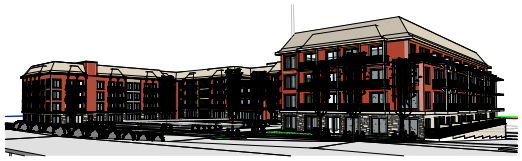
TOTAL PROPOSED CAR PARKING PER LEVEL

LEVEL	PARKING USE	COUNT
LEVEL P1	R	34 (INCLU 1 BARRIER FREE)
SURFACE	R	152 (INCLU 4 BARRIER FREE)
SURFACE	V	47 (INCLU 1 BARRIER FREE)
TOTAL		231 (INCLU 6 BARRIER FREE)

TOTALPROPOSED CAR PARKING FOR 184 DWELLING UNITS

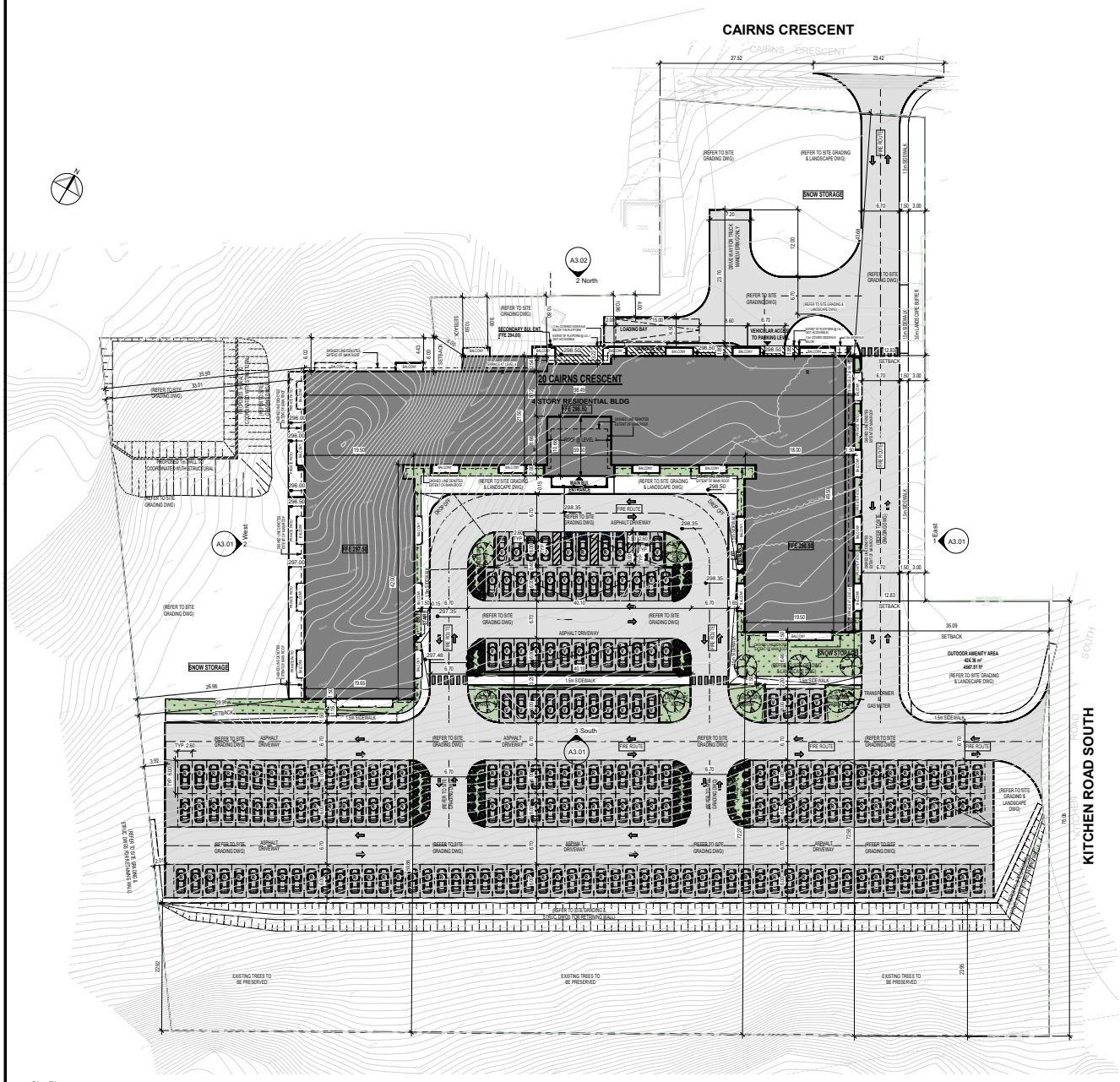
PARKING USE	COUNT
RESIDENTIAL	184 (INCLU 5 BARRIER FREE)
VISITOR	47 (INCLU 1 BARRIER FREE)
TOTAL	231 (INCLU 6 BARRIER FREE)

5 3D VIEW FROM SOUTH EAST



3 3D VIEW FROM NORTH EAST

4 3D VIEW FROM NORTH WEST



1 Site Plan
1 : 350

Options Architects
170 Sheppard Ave. East, Unit # 101A, North York, ON, M2N 3A4
Tel: 647-344-1177

ID	DATE	ISSUE / REVISION	BY
1	2023-01-20	For Review	PN
2	2023-03-03	For Review	PN
3	2023-05-10	For Review & Coordination	PN
4	2023-06-19	For Review & Coordination	PN
5	2023-08-11	For Review & Coordination	PN
6	2023-08-23	For Site Plan Application	PN
7	2024-01-30	For Review & Coordination	PN
8	2024-07-17	For Review & Coordination	PN
9	2024-07-23	For Review & Coordination	PN
10	2024-08-02	For First Class 3 Major CPP Submission	PN
11	2024-12-10	For Review	PN
12	2024-12-24	For Coordination	PN

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Client:

Seals:

NORTH

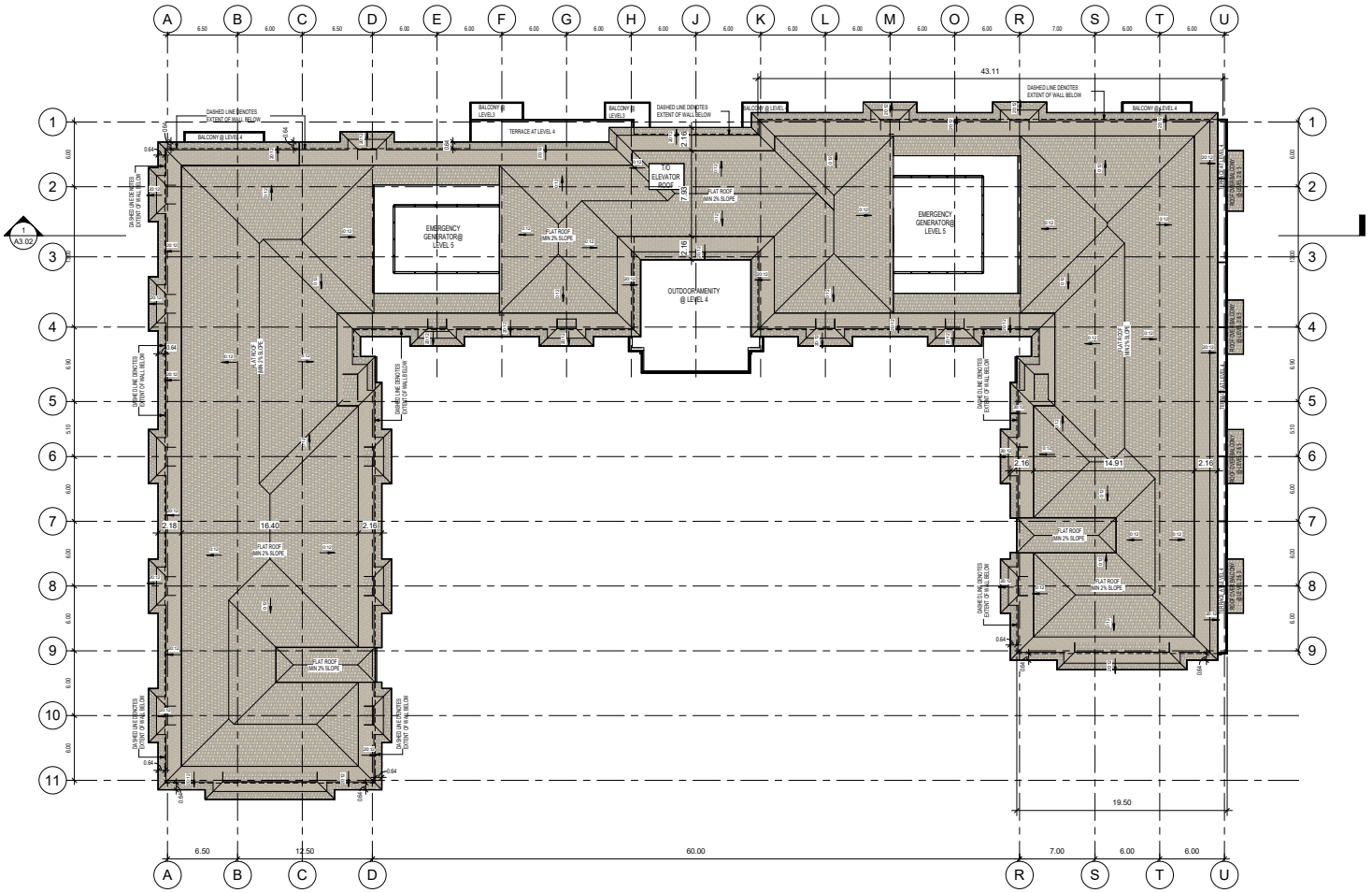
Project:
RESIDENTIAL APARTMENT

20 CAIRNS CRESCENT, HUNTSVILLE

Sheet Title:
SITE PLAN

Drawn:	MH	Sheet No:	
Checked:	PN		
Project No:	111-22		
Date:	MAY, 2023		
Scale:	As indicated		A1.01

PLOT DATE: 12/24/2024 10:29:59 AM



1 ROOF PL
1 : 200

Options Architects

170 Sheppard Ave. East, Unit # 101A, North York, ON, M2N 3A4
Tel: 647.344.1177

ID	DATE	ISSUE / REVISION	BY
1	2023-01-20	For Review	PN
2	2023-03-03	For Review	PN
3	2023-05-10	For Review & Coordination	PN
4	2023-06-19	For Review & Coordination	PN
5	2023-08-11	For Review & Coordination	PN
6	2023-08-23	For Site Plan Application	PN
7	2024-01-30	For Review & Coordination	PN
8	2024-07-17	For Review & Coordination	PN
9	2024-07-23	For Review & Coordination	PN
10	2024-08-02	For First Class 3 Major CPP Submission	PN
11	2024-12-10	For Review	PN
12	2024-12-24	For Coordination	PN

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Client:

Seals:

NORTH

Project:

RESIDENTIAL APARTMENT

20 CAIRNS CRESCENT, HUNTSVILLE

Sheet Title:

ROOF PLAN

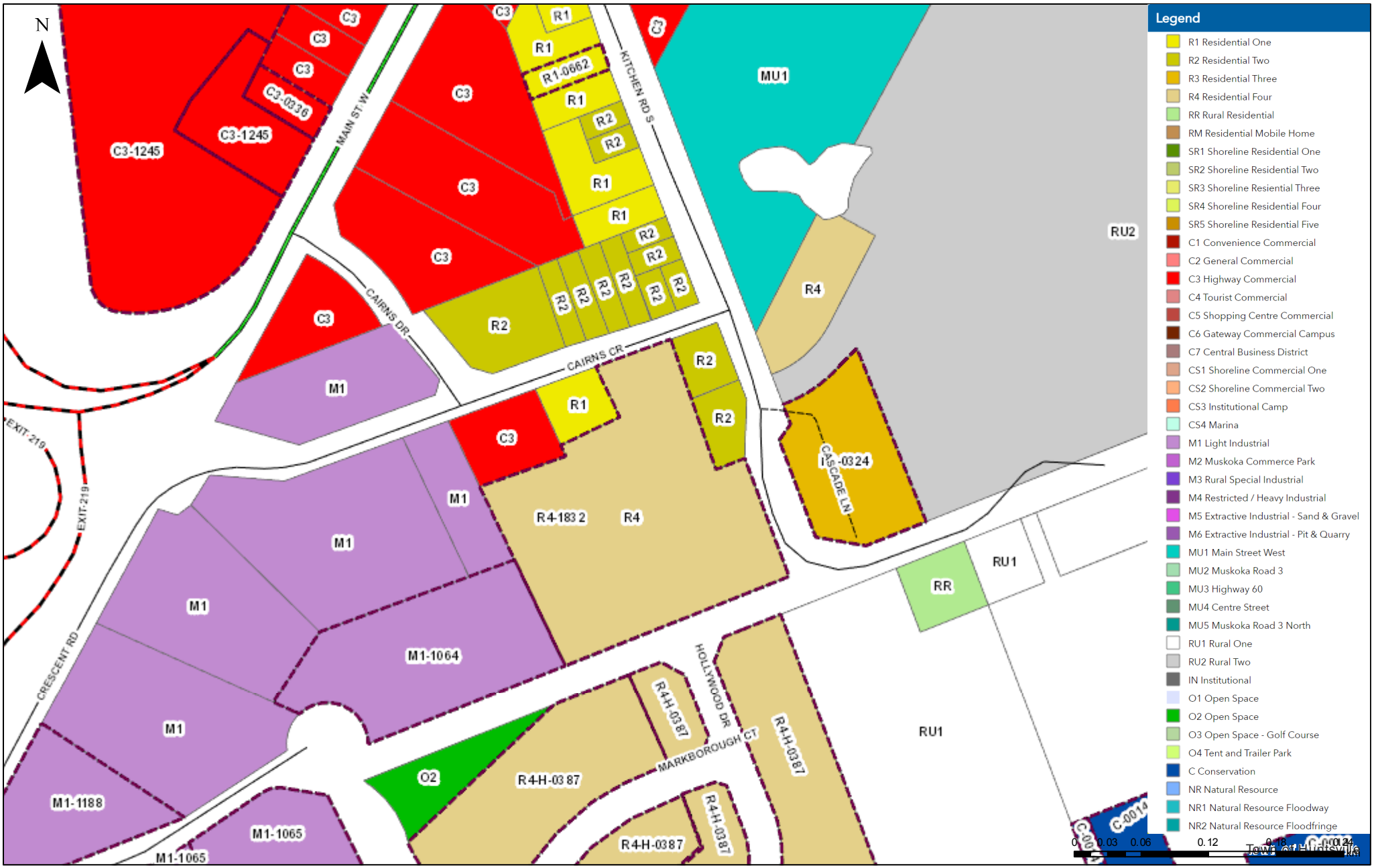
Drawn:	MH
Checked:	PN
Project No:	111-22
Date:	MAY, 2023
Scale:	1 : 200

Sheet No:

A2.06

Appendix B
Zoning Map

Huntsville Public Map



Provincial — Municipal — Parks

District ---------- Private

UTM Zone 17 NAD 83

Town of Huntsville
Airphoto Data Captured: Spring 2013, 2008
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Appendix C
Road Traffic Data

Road Section Traffic Volumes (listed alphabetically by Road Name)										
Road Name	**From**	**To**	**Section**	**Length**	**2015 AADT**	**AADT Range**	**5 Year AADT**	**5 Year AADT Range**	**10 Year AADT**	**10 Year AADT Range**
Allensville Road	Highway 11	Old Muskoka Road	4026	1.10	500	400-999	550	400-999	600	400-999
Alvin Lee Way	Muskoka Road 10	West End	5006	0.10	25	0-49	50	50-199	50	50-199
Anthony Court	Florence Street	End	1168	0.27	125	50-199	150	50-199	150	50-199
Anthony Crescent	Anthony Court	Anthony Court	1168-1	0.10	75	50-199	100	50-199	100	50-199
Ashworth Road	Etwell Road	North End	3014	1.90	45	0-49	50	50-199	75	50-199
Bayshore Boulevard	0.8Km West Of Lakewood Park	1.3Km West Of Lakewood	2235	0.60	300	200-399	325	200-399	375	200-399
Bayshore Boulevard	1.3Km West Of Lakewood	Lighthouse Point Road	2237	0.30	250	200-399	275	200-399	300	200-399
Bayshore Boulevard	Lighthouse Point	0.30 Km South	2238	0.30	175	50-199	200	200-399	225	200-399
Bayshore Boulevard	Lakewood Park	0.8Km West	2224	0.80	325	200-399	350	200-399	400	400-999
Beach Road	Highway 141	North End	4062	0.50	75	50-199	100	50-199	100	50-199
Beaver Meadow Road	Muskoka Road 1	South End	4100	1.70	30	0-49	50	50-199	50	50-199
Beechwood Path	0.13Km W of Kelly Road	Crestview Drive	1179-1	0.12	250	200-399	275	200-399	300	200-399
Beechwood Path	Crestview Drive	Town Line Road West	1179-2	0.15	350	200-399	375	200-399	425	400-999
Belleview Avenue	Muskoka Road 10	North End	5000	0.40	50	50-199	75	50-199	75	50-199
Bethune Road North	Aspdin Road	Deerview Trail	3060	0.30	150	50-199	175	50-199	200	200-399
Bethune Road South	Aspdin Road	South End	3064	0.20	50	50-199	75	50-199	75	50-199
Bickley Country Drive	Aspdin Road	0.3km West	2241	0.30	750	400-999	800	400-999	900	400-999
Bickley Country Drive	0.30Km West	Lindgren Road	7057	0.30	450	400-999	475	400-999	550	400-999
Billy's Lane	Muskoka Road 10	End	4070	0.15	25	0-49	50	50-199	50	50-199
Birchwood Drive	Deerfoot Trail	Deer Foot Trail	7023	0.80	75	50-199	100	50-199	100	50-199
Bottings Road	Yearly Road	Aspdin Road	3050	0.60	25	0-49	50	50-199	50	50-199
Boundary Road	2.0 Km West Of Highway 11	Old Novar Road / Whitney Road	2006	4.40	100	50-199	125	50-199	125	50-199
Boundary Road	Highway 11	2.0 Km West Of Highway 11	2008	2.00	150	50-199	175	50-199	200	200-399
Bowyer Road	Williamsport Road	West End	2080	1.20	75	50-199	100	50-199	100	50-199
Breisacher Road	South Waseosa Lake Road	West End	2060	1.00	75	50-199	100	50-199	100	50-199
Bridgedale Crescent	Clearwater Lake Road	Bridgedale Road	5034-1	0.20	150	50-199	175	50-199	200	200-399
Bridgedale Crescent	Bridgedale Road	Bridgedale Road	5034-2	0.40	75	50-199	100	50-199	100	50-199
Bridgedale Road	Muskoka Road 10	Bridgedale Crescent	5032-1	0.40	150	50-199	175	50-199	200	200-399
Bridgedale Road	Bridgedale Crescent	Bridgedale Crescent	5032-2	0.40	75	50-199	100	50-199	100	50-199
Brooks Lane	Grandview Drive	End	6097	0.15	45	0-49	50	50-199	75	50-199
Buckhorn Rd.	Summer Maintenance Only Sign	North End	3017	3.80	25	0-49	50	50-199	50	50-199
Buckhorn Road	Etwell Road	North End	3016	0.50	75	50-199	100	50-199	100	50-199
Burrow Pit Lane	North Dufferin Street	Station Road	1062	0.10	75	50-199	100	50-199	100	50-199
By-Lock Acres	West Browns Road	Cul-De-Sac	6048	0.40	75	50-199	100	50-199	100	50-199
Caesar's Lane	Aspdin Road	East End	7067	0.60	50	50-199	75	50-199	75	50-199
Cairns Crescent	Kitchen Road South	Cairns Drive	7060-1	0.20	750	400-999	800	400-999	900	400-999
Cairns Crescent	Crescent Road	Cairns Drive	7060-2	0.20	300	200-399	325	200-399	375	200-399
Cairns Drive	Main Street	Cairns Crescent	7059	0.15	1500	1000-1999	1600	1000-1999	1800	1000-1999
Camp Kitchen Road	Forbs Hill Drive	End	7090	0.50	45	0-49	50	50-199	75	50-199
Camp Newport Road	Aspdin Road	End	3056	0.85	100	50-199	125	50-199	125	50-199
Candytown Lane	Muskoka Road 10	End	6084	0.50	45	0-49	50	50-199	75	50-199
Cann Street	John Street	Chaffey Street	1044	0.24	750	400-999	800	400-999	900	400-999
Cann Street	Chaffey Street	South Fetterly Street	1046-1	0.10	200	200-399	225	200-399	250	200-399
Cann Street	South Fetterly Street	King William Street	1046-2	0.25	150	50-199	175	50-199	200	200-399
Cardwell Lake	1.7Km W. Of Yearly Road	Muskoka Lakes Boundary	3013	2.30	25	0-49	50	50-199	50	50-199
Caroline Street E.	Centre Street N.	West Street N.	1070	0.11	1200	1000-1999	1275	1000-1999	1450	1000-1999
Caroline Street W.	North Dufferin Street	Lorne Street N.	1066	0.20	350	200-399	375	200-399	425	400-999
Caroline Street W.	Centre Street N.	Lorne Street N.	7034-1	0.15	500	400-999	550	400-999	600	400-999
Cemetery Lane	Muskoka Road 3 N.	East End	2155	0.20	75	50-199	100	50-199	100	50-199
Centre Street N.	Susan Street W.	Caroline Street W.	1134-1	0.09	3000	2000+	3175	2000+	3600	2000+
Centre Street N.	Caroline Street W.	Main Street W.	1134-2	0.09	3100	2000+	3275	2000+	3725	2000+
Centre Street N.	Main Street W.	Minerva Street W.	1134-3	0.10	3100	2000+	3275	2000+	3725	2000+
Centre Street N.	Mary Street W.	Minerva Street W.	1134-4	0.09	3000	2000+	3175	2000+	3600	2000+
Centre Street N.	Mary Street W.	Lansdowne Street W. / Veterans Way	1134-5	0.09	2800	2000+	2950	2000+	3375	2000+
Centre Street N.	Duncan Street W.	Lansdowne Street W. / Veterans Way	1134-6	0.08	2600	2000+	2750	2000+	3125	2000+
Centre Street N.	Payne Drive	Susan Street W.	1134-11	0.07	3000	2000+	3175	2000+	3600	2000+
Centre Street N.	Payne Drive	Dairy Lane	1000-1	0.35	3000	2000+	3175	2000+	3600	2000+
Centre Street N.	Dairy Street N.	West Road	1002-1	0.30	3000	2000+	3175	2000+	3600	2000+
Centre Street N.	West Road	Kirbys Way	1002-2	0.20	3000	2000+	3175	2000+	3600	2000+
Centre Street North	Howland Drive	Highway 60	7040	0.23	3500	2000+	3700	2000+	4200	2000+
Centre Street North	Legacy Lane	Howland Drive	7041	0.70	3500	2000+	3700	2000+	4200	2000+
Centre Street North	Hanes Road	Legacy Lane	7042	0.14	3000	2000+	3175	2000+	3600	2000+
Centre Street North	Kirbys Way	Hanes Road	7043	0.50	3000	2000+	3175	2000+	3600	2000+
Centre Street S.	Rogers Road	Cul-De-Sac South Of Rogers Rd.	1134-10	0.11	150	50-199	175	50-199	200	200-399
Centre Street S.	Duncan Street S.	Cora Street E.	1134-7	0.09	350	200-399	375	200-399	425	400-999
Centre Street S.	Florence Street E.	Cora Street E.	1134-8	0.09	250	200-399	275	200-399	300	200-399
Centre Street S.	Florence Street E.	Rogers Road	1134-9	0.09	200	200-399	225	200-399	250	200-399
Ceramic Mine Road North	Bridge	End	2019	0.20	25	0-49	50	50-199	50	50-199
Ceramic Mine Road North	Highway 11	North To Bridge	2054	0.30	40	0-49	50	50-199	50	50-199
Ceramic Mine Road North	Rockhaven Road	South End	2053	0.30	25	0-49	50	50-199	50	50-199
Chaffey Street	West Road	Herman Avenue	7047-1	0.05	550	400-999	600	400-999	675	400-999
Chaffey Street	Herman Avenue	N. End	7047-2	0.18	125	50-199	150	50-199	150	50-199
Chaffey Township Road	Highview Drive	East End	2154	0.30	75	50-199	100	50-199	100	50-199
Chaffey Township Road	Muskoka Road 3 N.	Highview Drive	7001	0.45	150	50-199	175	50-199	200	200-399
Chalet Crescent	Valley Rd.	Skyline Drive/Chalet Crs	2118-1	0.15	450	400-999	475	400-999	550	400-999
Chalet Crescent	Valley Rd.	Ski Club Rd.	2118-2	0.11	450	400-999	475	400-999	550	400-999
Chalet Crescent	Skyline Drive/Chalet Crs	East To Skyline Drive	2118-3	0.30	450	400-999	475	400-999	550	400-999
Christ Church Road	Muskoka Road 10	East End	5010	0.10	50	50-199	75	50-199	75	50-199
Chubb Lake Road	North Mary Lake Road	End Of Winter Maintenance	7086	1.00	150	50-199	175	50-199	200	200-399
Chubb Lake Road	End Of Winter Maintained Road	End	7086-1	0.25	25	0-49	50	50-199	50	50-199
Church Street	King William Street	Top Of Hill	1101	0.06	250	200-399	275	200-399	300	200-399
Church Street	Mill Street	Mountview Avenue	1101-1	0.10	75	50-199	100	50-199	100	50-199
Church Street	Mountview Avenue	South End	1101-2	0.07	45	0-49	50	50-199	75	50-199
Church Street	Top Of Hill	Mill Street	1101-3	0.60	125	50-199	150	50-199	150	50-199
Clarke Crescent	Tall Pine Rd	End	4092-3	0.30	50	50-199	75	50-199	75	50-199
Clarke Crescent	Muskoka Road 10	Spring Creek Lane	4092-1	0.10	125	50-199	150	50-199	150	50-199
Clarke Crescent	Spring Creek Lane	Tall Pine Road	4092-2	0.20	75	50-199	100	50-199	100	50-199
Clarkes Lane	Old Muskoka Road	West End	4066	0.90	45	0-49	50	50-199	75	50-199
Clearwater Lake Road	Deer Lake Road	Bridgedale Crescent	4120-1	0.40	250	200-399	275	200-399	300	200-399
Clearwater Lake Road	Hughes Road	Estonian Camp	4122	2.10	125	50-199	150	50-199	150	50-199
Clearwater Lake Road	Estonian Camp	East End	4136	0.80	50	50-199	75	50-199	75	50-199
Clearwater Lake Road	Bridgedale Crescent	Hughes Road	4120-2	2.70	150	50-199	175	50-199	200	200-399
Cliff Avenue	Hanes Street	Lake Drive	1090	0.10	600	400-999	650	400-999	725	400-999
Cliff Avenue	King William Street	McDonald's Parking	7006	0.10	500	400-999	550	400-999	600	400-999
Cliff Avenue	King William Street	Meadow Park Drive	1091-1	0.05	750	400-999	800	400-999	900	400-999
Cliff Avenue	Meadow Park Drive	Lake Drive	1091-2	0.20	500	400-999	550	400-999	600	400-999
Clubhouse Drive	Deerhurst Highlands Drive	End	7093	0.65	300	200-399	325	200-399	375	200-399
Concession 2 & 3 West	Brunel Road	West End	6090	0.55	45	0-49	50	50-199	75	50-199
Concession 4 & 5 Road E.	Limit of Winter Maintenance	East End	6086	0.60	25	0-49	50	50-199	50	50-199
Concession 4 & 5 Road E.	Brunel Road	East Limit Of Winter Maintenance	6086-1	5.10	75	50-199	100	50-199	100	50-199
Concession 4 & 5 Road W.	Brunel Road	West End	7081	1.40	25	0-49	50	50-199	50	50-199
Cookson Bay Crescent	Canal Road	Canal Road	2145	0.80	350	200-399	375	200-399	425	400-999
Cora Street E.	West Street S.	Brunel Road	7009	0.13	175	50-199	200	200-399	225	200-399
Cora Street E.	Centre Street S	West Street S.	1156-2	0.20	250	200-399	275	200-399	300	200-399
Cora Street W.	Lorne St	Centre Street S.	1156-1	0.15	150	50-199	175	50-199	200	200-399
Coveside Drive	North End	South End	7004	0.15	350	200-399	375	200-399	425	400-999
Crescent Road	Cairns Crescent	End	1194	0.70	300	200-399	325	200-399	375	200-399
Crestview	Beechwood Path	Knotty Pine Trail	1181	0.20	250	200-399	275	200-399	300	200-399
Dairy Lane	Centre Street	0.1km N of Centre St.	7049	0.10	350	200-399	375	200-399	425	400-999
Dairy Lane	0.1km N of Centre St.	West Road	7050	0.22	150	50-199	175	50-199	200	200-399
Dara Howell Way	West Street N.	King Street	1078-1	0.10	500	400-999	550	400-999	600	400-999
Dara Howell Way	Water/Docks	King Street	1078-2	0.07	500	400-999	550	400-999	600	400-999
Deerfoot Trail	East Brown Road	Birchwood Drive	7027-1	0.30	450	400-999	475	400-999	550	400-999
Deerfoot Trail	Birchwood Drive	Birchwood Drive	7027-2	0.70	350	200-399	375	200-399	425	400-999
Deerfoot Trail	Birchwood Drive	Old Hemlock Trail	7027-3	0.40	250	200-399	275	200-399	300	200-399
Deerfoot Trail	Old Hemlock Trail	Royal Oak Crescent	7027-4	0.20	125	50-199	150	50-199	150	50-199
Deerfoot Trail	Royal Oak Crescent	Royal Oak Crescent	7027-5	0.45	75	50-199	100	50-199	100	50-199

Road Section Traffic Volumes (listed alphabetically by Road Name)										
Road Name	**From**	**To**	**Section**	**Length**	**2015 AADT**	**AADT Range**	**5 Year AADT**	**5 Year AADT Range**	**10 Year AADT**	**10 Year AADT Range**
Hanes Street	Morris Avenue	Cliff Avenue	1094-2	0.20	300	200-399	325	200-399	375	200-399
Hares Road	Gryffin Road	South End	4022	0.40	25	0-49	50	50-199	50	50-199
Harp Lake Road	Williamsport Road	Ena Drive	2084-1	1.80	200	200-399	225	200-399	250	200-399
Harp Lake Road	Ena Drive	Sydney Trail	2084-2	1.60	250	200-399	275	200-399	300	200-399
Harp Lake Road	Sydney Trail	Mclean Drive	2084-3	0.50	275	200-399	300	200-399	350	200-399
Harp Lake Road	Mclean Drive	Mclean Drive	2084-4	0.20	300	200-399	325	200-399	375	200-399
Harp Lake Road	Mclean Drive	Sharon Drive	2096-1	0.80	325	200-399	350	200-399	400	400-999
Harp Lake Road	Sharon Drive	0.3 Km South Of Sharon Drive	2096-2	0.40	325	200-399	350	200-399	400	400-999
Harp Lake Road	0.3 Km South Of Sharon Drive	Hwy 60	2096-3	0.80	375	200-399	400	400-999	450	400-999
Hart Court	South Dale Drive	West End	1208	0.20	125	50-199	150	50-199	150	50-199
Hawk Ridge Court	Royal Oak Crescent	End	7101	0.20	45	0-49	50	50-199	75	50-199
Helen Street	Sunrise Road	Rogers Road	1054	0.20	175	50-199	200	200-399	225	200-399
Hemmings Road	Lindgren Road	End	6010	0.35	250	200-399	275	200-399	300	200-399
Henry Street	George Street	Florence Street	1164	0.10	75	50-199	100	50-199	100	50-199
Heritage Crescent	Knotty Pine Trail	Knotty Pine Trail	1177	0.23	150	50-199	175	50-199	200	200-399
Herman Street	Chaffey Street	North Fetterly Street	1008-1	0.10	150	50-199	175	50-199	200	200-399
Herman Street	North Fetterly Street	East End	1008-2	0.25	75	50-199	100	50-199	100	50-199
Hiawatha Drive	South Mary Lake Road	South End	4112	1.00	45	0-49	50	50-199	75	50-199
Hibberd Road	Muskoka Road 3 N.	End Of Hibberd Road Asphalt	2184	0.35	75	50-199	100	50-199	100	50-199
Hibberd Road	End Of Hibberd Road Asphalt	End	2184-1	0.05	25	0-49	50	50-199	50	50-199
Hidden Valley Road	Highway 60	Mt. Pleasant Court / Skyline Dr	2114	0.28	950	400-999	1000	1000-1999	1150	1000-1999
Hidden Valley Road	Skyline Drive	Ski Chalet	7080	0.55	750	400-999	800	400-999	900	400-999
High Street	West Street S.	Brunel Road	1110	0.18	500	400-999	550	400-999	600	400-999
High Street	Brunel Road	River Street	1114	0.12	250	200-399	275	200-399	300	200-399
Highview Drive	Chaffey Township Road	Fairyview Road	2153-1	0.70	200	200-399	225	200-399	250	200-399
Hillcrest Drive	Brunel Road	South Fairy Lake Road	7098	0.20	75	50-199	100	50-199	100	50-199
Hilltop Drive	Muskoka Road 3 North	0.25Km South	2157-1	0.25	125	50-199	150	50-199	150	50-199
Hilltop Drive	0.25Km South	Muskoka Road 3 North	2157-2	0.25	125	50-199	150	50-199	150	50-199
Hodges Lane	Hunters Bay Drive	West Road	7070	0.25	500	400-999	550	400-999	600	400-999
Hood Road	Muskoka Road 10	North End	6076	0.80	500	400-999	550	400-999	600	400-999
Hood Road	0.8 Km N Of Muskoka Road 10	End	6076-1	0.10	45	0-49	50	50-199	75	50-199
Hoodstown Shore Road	Hoodstown Road	0.85Km Southerly	3021	0.85	75	50-199	100	50-199	100	50-199
Hoth's Lane	Muskoka Road 10	0.3Km West	5002-1	0.30	50	50-199	75	50-199	75	50-199
Hoth's Lane	0.3Km West	West End	5002-2	0.30	50	50-199	75	50-199	75	50-199
Howland Drive	Centre Street	North Kinton Avenue	7039	0.15	3500	2000+	3700	2000+	4200	2000+
Howland Drive	North Kinton Avenue	/est Of Lights West Of N. Kinton Avenu	7038-1	0.10	3000	2000+	3175	2000+	3600	2000+
Howland Drive	West Of Lights West Of N. Kinton Avenue	Kinton Avenue	7038-2	0.60	2000	2000+	2125	2000+	2400	2000+
Howland Drive	Kinton Avenue	Hanes Road	7038-3	0.30	2000	2000+	2125	2000+	2400	2000+
Hubbel Crescent	Townline Road	Kelly Road	1180	0.30	250	200-399	275	200-399	300	200-399
Hughes Road	Deer Lake Road	Clearwater Lake Rd.	4124	1.10	150	50-199	175	50-199	200	200-399
Hunters Bay Drive	Silverwood Drive	Hunters Bay Drive	2198	0.45	250	200-399	275	200-399	300	200-399
Hunters Bay Drive	West End	Silverwood Drive	2198-1	0.35	25	0-49	50	50-199	50	50-199
Hunters Bay Drive	Hodges Lane	end of U section	2204-1	0.30	450	400-999	475	400-999	550	400-999
Hunters Bay Drive	end of U section	Silverwood Drive	2204-2	0.45	450	400-999	475	400-999	550	400-999
Hutcheson Beach Road	Ravenscliffe Road	0.43 West	2175	0.43	150	50-199	175	50-199	200	200-399
Hutcheson Beach Road	0.430 West	Lake Vernon	2171	1.70	120	50-199	150	50-199	150	50-199
Indian Trail	Lakewood Park	West End	2230	0.26	125	50-199	150	50-199	150	50-199
Irene Street	Walter Street	West End	1143	0.14	45	0-49	50	50-199	75	50-199
Irene Street	Yonge Street	Tait Street	1142-1	0.10	150	50-199	175	50-199	200	200-399
Irene Street	Tait Street	Walter Street	1142-2	0.12	250	200-399	275	200-399	300	200-399
Iris Street	West Street	Madeline Street	2172	0.10	225	200-399	250	200-399	275	200-399
Jarvies Road	Etwell Road	Jarvies Road	3048	1.60	25	0-49	50	50-199	50	50-199
Jenner Court	Bridgedale Road	East End	5036	0.15	50	50-199	75	50-199	75	50-199
Jessop Lane	North Waseosa Lake Road	0.15 Km North	2034	0.15	25	0-49	50	50-199	50	50-199
Jingo Lake Road	South Waseosa Lake Road	End	2047	0.50	25	0-49	50	50-199	50	50-199
Johanna Street	Yonge Street	Wilmott Street	7065	0.10	850	400-999	900	400-999	1025	1000-1999
Johanna Street	Henry Street	Wilmott Street	7065-1	0.13	800	400-999	850	400-999	975	400-999
John Street	Main Street	Cann Street	1042-1	0.20	2000	2000+	2125	2000+	2400	2000+
John Street	Cann Street	Manominee Street	1042-2	0.10	1750	1000-1999	1850	1000-1999	2100	2000+
Kay Road W.	Deer Lake Road	West End	4126	0.80	25	0-49	50	50-199	50	50-199
Kelly Road	West Street S.	Hubble Crescent	1178-1	0.05	300	200-399	325	200-399	375	200-399
Kelly Road	Hubble Crescent	Beechwood Path	1178-2	0.08	250	200-399	275	200-399	300	200-399
Kendra Crescent	Kirby's Way	West End	7052-1	0.20	75	50-199	100	50-199	100	50-199
Kendra Crescent	Kirby's Way	East End	7052-2	0.08	45	0-49	50	50-199	75	50-199
Kimberly Clarke Road	Ravenscliffe Road	0.08 East End	2177	0.08	175	50-199	200	200-399	225	200-399
King Crescent	North Street	North Street	7032	0.15	75	50-199	100	50-199	100	50-199
King Street N.	River Mill Park	North Street	1026	0.20	75	50-199	100	50-199	100	50-199
King Street N.	Dara Howell Way (Queen Street)	Main Street E.	1078	0.06	300	200-399	325	200-399	375	200-399
Kinton Avenue	Howland Drive	End	7099	0.35	500	400-999	550	400-999	600	400-999
Kirby's Way	Centre Street	Kendra Crescent	7051	0.30	150	50-199	175	50-199	200	200-399
Kitchen Road N	Main Street W.	Ferguson Road	1184	0.13	75	50-199	100	50-199	100	50-199
Kitchen Road S	Cairns Road South	South End	1188-1	0.40	900	400-999	950	400-999	1100	1000-1999
Kitchen Road S	Main Street W.	Cairns Crescent	1188-2	0.35	1200	1000-1999	1275	1000-1999	1450	1000-1999
Knotty Pine Trail	Crestview Drive	Townline Road	6096-1	0.06	250	200-399	275	200-399	300	200-399
Knotty Pine Trail	Crestview Drive	Heritage Crescent	6096-2	0.10	200	200-399	225	200-399	250	200-399
Knotty Pine Trail	Heritage Crescent	Heritage Crescent	6096-3	0.14	150	50-199	175	50-199	200	200-399
La Niege Road	Stephenson Road 2E	East End	4129	0.90	100	50-199	125	50-199	125	50-199
Ladell Heights	Spruce Dr.	Northwoods Dr.	4080-2	0.20	125	50-199	150	50-199	150	50-199
Ladell Heights	Northwoods Dr.	End	4080-3	0.40	75	50-199	100	50-199	100	50-199
Ladell Heights	Muskoka Road 10	Spruce Dr.	4080-1	0.15	200	200-399	225	200-399	250	200-399
Lagoon Trailer Park Road	Arrowhead Park Road	End	7000	0.15	100	50-199	125	50-199	125	50-199
Lake Drive	Scotts Point Road	Cliff Avenue	1092-2	0.60	450	400-999	475	400-999	550	400-999
Lake Drive	Meadow Park Drive	Scotts Point Road	1092-1	0.28	325	200-399	350	200-399	400	400-999
Lakeshore Road	Lakeshore Road	End	2234	0.32	75	50-199	100	50-199	100	50-199
Lakeview Drive	Skyline Drive	Valley Road	2130-1	0.40	300	200-399	325	200-399	375	200-399
Lakewood Park	West Airport Road	Bayshore Boulevard	2226	0.50	375	200-399	400	400-999	450	400-999
Lakewood Park Road	West Airport Road	Aspdin Road	2240	0.50	750	400-999	800	400-999	900	400-999
Langs Lane	Fish Lake Road	South End	2012	0.50	25	0-49	50	50-199	50	50-199
Lansdowne Street W.	Lorne Street	Centre Street S.	1196	0.20	450	400-999	475	400-999	550	400-999
Lansdowne Street W.	Lorne Street	South Dufferin Street	1196-1	0.10	200	200-399	225	200-399	250	200-399
Lawrence Avenue	Riverside Drive	End	6024	0.10	50	50-199	75	50-199	75	50-199
Lendelwood Lane	Highway 141	Cul-De-Sac	4068-2	0.30	20	0-49	25	0-49	25	0-49
Lindgren Road East	Highway 11	End	6040	2.07	75	50-199	100	50-199	100	50-199
Lindgren Road W	Highway 11	North End	6008	1.10	450	400-999	475	400-999	550	400-999
Line Hill Road	Ravenscliffe Road	Skyhills Road	2076	1.10	75	50-199	100	50-199	100	50-199
Lockview Road	North Mary Lake Road	Brunel Road	7021	0.10	250	200-399	275	200-399	300	200-399
Lone Pine Drive	Stephenson Road 2W	Stephenson Road 1W	4140	2.70	225	200-399	250	200-399	275	200-399
Lone Pine Drive	Stephenson Road 4W	Stephenson Road 2W	4114	2.40	225	200-399	250	200-399	275	200-399
Long Point Road	Aspdin Road	South To End	3057	0.90	45	0-49	50	50-199	75	50-199
Longs Lake Road	Highway 141	3Km North To Sumer Maintenance Or	4058-1	0.30	45	0-49	50	50-199	75	50-199
Longs Lake Road	0.3Km North Of 141	End	4058-2	0.80	25	0-49	50	50-199	50	50-199
Lookout Point Road	Forbs Hill Drive	End	7089	0.30	150	50-199	175	50-199	200	200-399
Lorne Street N.	Caroline Street W.	Main Street W.	1132-7	0.08	900	400-999	950	400-999	1100	1000-1999
Lorne Street S.	Lansdown Street W.	Duncan Street W.	1132-3	0.10	600	400-999	650	400-999	725	400-999
Lorne Street S.	Mary Street W.	24m North Of Lansdown Street W.	1132-4	0.06	650	400-999	700	400-999	800	400-999
Lorne Street S.	24m North Of Lansdown Street W.	Lansdown Street W.	1132-4.1	0.02	650	400-999	700	400-999	800	400-999
Lorne Street S.	Minerva Street W.	Mary Street W.	1132-5	0.10	750	400-999	800	400-999	900	400-999
Lorne Street S.	Main Street W.	Minerva Street W.	1132-6	0.09	900	400-999	950	400-999	1100	1000-1999
Lorne Street S.	Duncan Street W.	Cora Street W.	1132-1	0.10	550	400-999	600	400-999	675	400-999
Lorne Street S.	Cora Street W.	Florence Street E.	1132-2	0.10	500	400-999	550	400-999	600	400-999
Lucky Road	Highway 11	North End	4040	3.70	45	0-49	50	50-199	75	50-199
Lynx Lake Road	Muskoka Road 10	90° Bend	6082	2.00	75	50-199	100	50-199	100	50-199
Lynx Lake Road	90° Bend	1.5 Km West Of 90° Bend	6082-1	1.60	75	50-199	100	50-199	100	50-199
Lynx Lake Road	1.5 Km West Of 90° Bend	End	6082-2	0.10	25	0-49	50	50-199	50	50-199
Mackenzie Drive	Goodwin Drive	South End	7097	0.20	125	50-199	150	50-199	150	50-199
Macks Road	Stephenson Road 2E	South Mary Lake Road	4116	1.80	100	50-199	125	50-199	125	50-199
Madeline Street	Iris Street	End	2170	0.10	75	50-199	100	50-199	100	50-199

Ontario

Ministry of Transportation

TVIS II - Traffic Volume information System

ICS Weekly Volume Summary

Hwy:	11	**Between:**	MUSKOKA RD 117 IC (E) CEDAR LANE (W)				
TS:	210	**and:**	HWY 141 IC(W) MUSKOKA RD 10-PORT SIDNEY RD(E)				
Regn:	Northeas	**Pattern:**	HT	**PDCS:**	69	**Factor:**	0.52
LHRS:	17060	**Offset:**	7.800	**Locn:**	7.800 KM N OF MUSKOKA RD 117 IC (E) CEDAR LANE (W)		
Dir:	N	**Lanes:**	2	**Speed:**	100 km/h	**Dates:**	02-Jul-2021 to 09-Jul-2021

	Fri		Sat		Sun		Mon		Tue		Wed		Thu		Fri	
H. Interval	**07/02**		**07/03**	**Pk.**	**07/04**	**Pk.**	**07/05**	**Pk.**	**07/06**	**Pk.**	**07/07**	**Pk.**	**07/08**	**Pk.**	**07/09**	**Pk.**
00:00-01:00			112		78		58		53		79		65		62	
01:00-02:00			67		39		44		70		78		60		64	
02:00-03:00			54		29		40		67		74		52		62	
03:00-04:00			47		15		35		55		62		47		47	
04:00-05:00			58		23		36		66		74		51		48	
05:00-06:00			88		36		114		100		109		118		113	
06:00-07:00			145		62		317		316		283		307		318	
07:00-08:00			281		158		462		466		399		423		476	
08:00-09:00			514	▯	300	▯	582	▯	534	▯	516	▯	556	▯	712	▯
09:00-10:00			869		461		572		547		515		570		847	
10:00-11:00			1010		706		647		602		610		614		968	
11:00-12:00			1073		929		756		659		660		710		1202	▯
AM Total			**4318**		**2836**		**3663**		**3535**		**3459**		**3573**		**4919**	
12:00-13:00	1342	▯	1088		1053	▯	859		774		715		873	▯		
13:00-14:00	1181		1195	▯	1023		877	▯	805	▯	744	▯	835			
14:00-15:00	993		1163		1081		888		720		814		963			
15:00-16:00	1405	▯	1124	▯	958	▯	928	▯	713		859		958			
16:00-17:00	1358		884		659		886		793	▯	888	▯	1005	▯		
17:00-18:00	1052		504		532		679		764		820		974			
18:00-19:00	746		465		421		416		500		511		753			
19:00-20:00	790		318		337		296		371		388		566			
20:00-21:00	635		253		272		228		311		272		514			
21:00-22:00	422		207		197		177		252		218		417			
22:00-23:00	260		137		144		133		170		140		189			
23:00-00:00	146		97		96		102		125		92		115			
PM Total	**10330**		**7435**		**6773**		**6469**		**6298**		**6461**		**8162**			
24h. Total	**10330**		**11753**		**9609**		**10132**		**9833**		**9920**		**11735**		**4919**	
Noon - Noon	**14648**		**10271**		**10436**		**10004**		**9757**		**10034**		**13081**			

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TVIS II - Traffic Volume information System

ICS Weekly Volume Summary

Hwy:	11	**Between:**	MUSKOKA RD 117 IC (E) CEDAR LANE (W)				
TS:	210	**and:**	HWY 141 IC(W) MUSKOKA RD 10-PORT SIDNEY RD(E)				
Regn:	Northeas	**Pattern:**	HT	**PDCS:**	69	**Factor:**	0.52
LHRS:	17060	**Offset:**	7.800	**Locn:**	7.800 KM N OF MUSKOKA RD 117 IC (E) CEDAR LANE (W)		
Dir:	S	**Lanes:**	2	**Speed:**	100 km/h	**Dates:**	02-Jul-2021 to 09-Jul-2021

	Fri		Sat		Sun		Mon		Tue		Wed		Thu		Fri	
H. Interval	**07/02**		**07/03**	**Pk.**	**07/04**	**Pk.**	**07/05**	**Pk.**	**07/06**	**Pk.**	**07/07**	**Pk.**	**07/08**	**Pk.**	**07/09**	**Pk.**
00:00-01:00			54		51		67		28		50		58		50	
01:00-02:00			29		27		40		34		39		35		43	
02:00-03:00			23		22		31		29		31		38		34	
03:00-04:00			30		22		58		31		36		36		42	
04:00-05:00			36		22		109		58		45		46		49	
05:00-06:00			62		45		269		157		146		165		163	
06:00-07:00			142		162		522		383		355		339		351	
07:00-08:00			242		270		772	▯	613	▯	562		574		537	
08:00-09:00			380	▯	539	▯	761		602		643	▯	595	▯	555	▯
09:00-10:00			611		1076		884		675		709		656		663	
10:00-11:00			968		1724		1085		730		794		760		722	
11:00-12:00			1052	▯	1984		1203		815	▯	900	▯	909	▯	739	▯
AM Total			**3629**		**5944**		**5801**		**4155**		**4310**		**4211**		**3948**	
12:00-13:00	827	▯	1023		2109		1205	▯	723		848		892			
13:00-14:00	820		1009		2152	▯	1072		729		788		846			
14:00-15:00	829		902		2086		1045		802		734		832			
15:00-16:00	806	▯	834	▯	1927	▯	1137	▯	773		743	▯	761			
16:00-17:00	721		790		1773		1044		812	▯	732		771	▯		
17:00-18:00	611		760		1588		826		703		635		557			
18:00-19:00	464		709		1461		543		522		429		407			
19:00-20:00	398		617		1337		429		424		319		324			
20:00-21:00	332		536		1043		287		325		231		227			
21:00-22:00	239		357		647		159		198		161		148			
22:00-23:00	134		254		316		101		101		97		92			
23:00-00:00	78		110		102		54		89		65		67			
PM Total	**6259**		**7901**		**16541**		**7902**		**6201**		**5782**		**5924**			
24h. Total	**6259**		**11530**		**22485**		**13703**		**10356**		**10092**		**10135**		**3948**	
Noon - Noon	**9888**		**13845**		**22342**		**12057**		**10511**		**9993**		**9872**			

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TVIS II - Traffic Volume information System

ICS Weekly Volume Summary

Hwy:	11	**Between:**	MUSKOKA RD 117 IC (E) CEDAR LANE (W)
TS:	210	**and:**	HWY 141 IC(W) MUSKOKA RD 10-PORT SIDNEY RD(E)
Regn:	Northeas	**Pattern:**	HT
LHRS:	17060	**Offset:**	7.800
Dir:	COMBINED	**Lanes:**	4

PDCS: 69 **Factor:** 0.52

Locn: 7.800 KM N OF MUSKOKA RD 117 IC (E) CEDAR LANE (W)

Speed: 100 km/h **Dates:** 02-Jul-2021 to 09-Jul-2021

	Fri		Sat		Sun		Mon		Tue		Wed		Thu		Fri	
H. Interval	**07/02**		**07/03**	**Pk.**	**07/04**	**Pk.**	**07/05**	**Pk.**	**07/06**	**Pk.**	**07/07**	**Pk.**	**07/08**	**Pk.**	**07/09**	**Pk.**
00:00-01:00			166		129		125		81		129		123		112	
01:00-02:00			96		66		84		104		117		95		107	
02:00-03:00			77		51		71		96		105		90		96	
03:00-04:00			77		37		93		86		98		83		89	
04:00-05:00			94		45		145		124		119		97		97	
05:00-06:00			150		81		383		257		255		283		276	
06:00-07:00			287		224		839		699		638		646		669	
07:00-08:00			523		428		1234		1079		961		997		1013	
08:00-09:00			894	▯	839	▯	1343	▯	1136	▯	1159	▯	1151	▯	1267	▯
09:00-10:00			1480		1537		1456		1222		1224		1226		1510	
10:00-11:00			1978		2430		1732		1332		1404		1374		1690	
11:00-12:00			2125		2913		1959		1474		1560		1619		1941	▯
AM Total			**7947**		**8780**		**9464**		**7690**		**7769**		**7784**		**8867**	
12:00-13:00	2169	▯	2111		3162		2064	▯	1497		1563	▯	1765	▯		
13:00-14:00	2001		2204	▯	3175	▯	1949		1534	▯	1532		1681			
14:00-15:00	1822		2065		3167		1933		1522		1548		1795			
15:00-16:00	2211	▯	1958	▯	2885	▯	2065	▯	1486		1602		1719			
16:00-17:00	2079		1674		2432		1930		1605	▯	1620	▯	1776	▯		
17:00-18:00	1663		1264		2120		1505		1467		1455		1531			
18:00-19:00	1210		1174		1882		959		1022		940		1160			
19:00-20:00	1188		935		1674		725		795		707		890			
20:00-21:00	967		789		1315		515		636		503		741			
21:00-22:00	661		564		844		336		450		379		565			
22:00-23:00	394		391		460		234		271		237		281			
23:00-00:00	224		207		198		156		214		157		182			
PM Total	**16589**		**15336**		**23314**		**14371**		**12499**		**12243**		**14086**			
24h. Total	**16589**		**23283**		**32094**		**23835**		**20189**		**20012**		**21870**		**8867**	
Noon - Noon	**24536**		**24116**		**32778**		**22061**		**20268**		**20027**		**22953**			

ADT	AWD	AADT	SADT	SAWDT	WADT	DHV
23820	21327	12400	35700	36000	11400	4150

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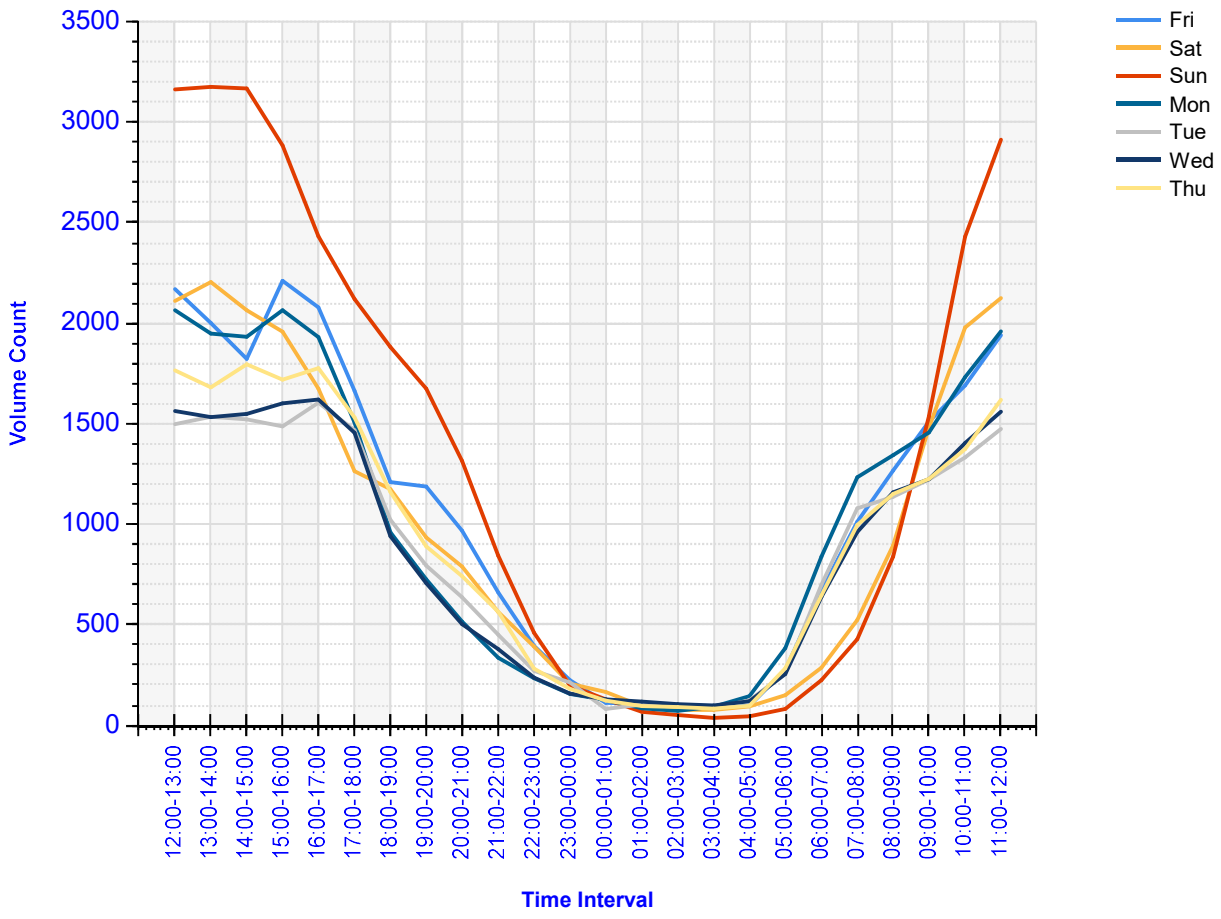
Weekly Volume Summary - Combined



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Appendix D
Stationary Noise Sample Calculations

Project: 20 Cairns Crescent NIS
Project Number: 22058

Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S01	S01	240	37	242	37	304	21	359	30
S02	S02	236	38	238	37	301	21	355	30
S03	S03	220	38	223	38	285	22	339	30
S04	S04	238	37	241	37	304	21	357	30
S05	S05	227	38	229	38	292	25	344	30
S06	S06	213	39	215	38	279	25	329	30
S07	S07	261	37	263	37	328	25	375	29
Total Level [dBA]			**46**		**46**		**32**		**38**

Receiver: R01
Project: 20 Cairns Crescent NIS
Project Number: 22058

Time Period	Total (dBA)
Day	46

Receiver Name	Receiver ID	X	Y	Z
R01	R01	167637.03 m	5026313.86 m	308.00 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S01	S01	167448.9	5026165.6	296.0	0	94	0.0	A	58.6	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	37
S02	S02	167455.2	5026164.0	296.0	0	94	0.0	A	58.5	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	38
S03	S03	167468.7	5026172.4	296.0	0	94	0.0	A	57.9	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	38
S04	S04	167455.6	5026159.6	296.0	0	94	0.0	A	58.5	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	37
S05	S05	167471.5	5026159.6	296.0	0	94	0.0	A	58.1	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	38
S06	S06	167484.4	5026166.0	296.0	0	94	0.0	A	57.6	0.0	-3.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	39
S07	S07	167458.8	5026123.7	296.0	0	94	0.0	A	59.3	0.0	-3.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	37

Receiver: R02
Project: 20 Cairns Crescent NIS
Project Number: 22058

Time Period	Total (dBA)
Day	46

Receiver Name	Receiver ID	X	Y	Z
R02	R02	167640.94 m	5026313.11 m	308.00 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S01	S01	167448.9	5026165.6	296.0	0	94	0.0	A	58.7	0.0	-3.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	37
S02	S02	167455.2	5026164.0	296.0	0	94	0.0	A	58.5	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	37
S03	S03	167468.7	5026172.4	296.0	0	94	0.0	A	58.0	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	38
S04	S04	167455.6	5026159.6	296.0	0	94	0.0	A	58.6	0.0	-3.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	37
S05	S05	167471.5	5026159.6	296.0	0	94	0.0	A	58.2	0.0	-3.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	38
S06	S06	167484.4	5026166.0	296.0	0	94	0.0	A	57.7	0.0	-3.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	38
S07	S07	167458.8	5026123.7	296.0	0	94	0.0	A	59.4	0.0	-3.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	37

Receiver: R03
Project: 20 Cairns Crescent NIS
Project Number: 22058

Time Period	Total (dBA)
Day	32

Receiver Name	Receiver ID	X	Y	Z
R03	R03	167671.94 m	5026372.09 m	309.10 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S01	S01	167448.9	5026165.6	296.0	0	94	0.0	A	60.7	0.0	-3.0	13.7	1.5	0.0	0.0	0.0	0.0	0.0	21
S02	S02	167455.2	5026164.0	296.0	0	94	0.0	A	60.6	0.0	-3.0	13.7	1.5	0.0	0.0	0.0	0.0	0.0	21
S03	S03	167468.7	5026172.4	296.0	0	94	0.0	A	60.1	0.0	-3.0	14.0	1.4	0.0	0.0	0.0	0.0	0.0	22
S04	S04	167455.6	5026159.6	296.0	0	94	0.0	A	60.6	0.0	-3.0	13.7	1.5	0.0	0.0	0.0	0.0	0.0	21
S05	S05	167471.5	5026159.6	296.0	0	94	0.0	A	60.3	0.0	-3.0	10.2	1.4	0.0	0.0	0.0	0.0	0.0	25
S06	S06	167484.4	5026166.0	296.0	0	94	0.0	A	59.9	0.0	-3.0	10.6	1.4	0.0	0.0	0.0	0.0	0.0	25
S07	S07	167458.8	5026123.7	296.0	0	94	0.0	A	61.3	0.0	-3.0	9.2	1.6	0.0	0.0	0.0	0.0	0.0	25

Receiver: R04
Project: 20 Cairns Crescent NIS
Project Number: 22058

Time Period	Total (dBA)
Day	38

Receiver Name	Receiver ID	X	Y	Z
R04	R04	167754.25 m	5026354.96 m	300.83 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S01	S01	167448.9	5026165.6	296.0	0	94	0.0	A	62.1	0.0	-4.1	4.8	1.7	0.0	0.0	0.0	0.0	0.0	30
S02	S02	167455.2	5026164.0	296.0	0	94	0.0	A	62.0	0.0	-4.1	4.8	1.7	0.0	0.0	0.0	0.0	0.0	30
S03	S03	167468.7	5026172.4	296.0	0	94	0.0	A	61.6	0.0	-4.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0	30
S04	S04	167455.6	5026159.6	296.0	0	94	0.0	A	62.1	0.0	-4.1	4.8	1.7	0.0	0.0	0.0	0.0	0.0	30
S05	S05	167471.5	5026159.6	296.0	0	94	0.0	A	61.7	0.0	-4.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0	30
S06	S06	167484.4	5026166.0	296.0	0	94	0.0	A	61.4	0.0	-4.0	5.0	1.6	0.0	0.0	0.0	0.0	0.0	30
S07	S07	167458.8	5026123.7	296.0	0	94	0.0	A	62.5	0.0	-4.2	5.4	1.7	0.0	0.0	0.0	0.0	0.0	29

End of Report