



## **3272 & 3301 Trafalgar Road**

**Environmental Noise Feasibility Study, Oakville, ON** 

3275 Trafalgar Limited Partnership

Prepared by:

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### **Revision Record**

Revision	Date	Prepared By	Checked By	Authorized By
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### 1.0 Introduction

SLR Consulting (Canada) Ltd. was retained by 3275 Trafalgar Limited Partnership to conduct an Environmental Noise Assessment for the proposed mixed-use development ("the Site") located at 3272 & 3301 Trafalgar Road, located in Oakville, Ontario.

### 1.1 Focus of Report

In keeping with the Ministry of Environment, Conservation and Parks (MECP) and City of Richmond Hill requirements, this report examines the potential for:

- Impacts of the environment on the proposed development;
- Impacts of the proposed development on the environment; and
- Impacts of the proposed development on itself.

### 1.2 Nature of the Subject Lands

The development site is located at 3272 & 3301 Trafalgar Road in Oakville, Ontario. The development is located on the "north" side of the Trafalgar Road, between the intersections of Burnhamthorpe Road East and Dundas Street East.<sup>1</sup> A context plan is provided in **Figure 1**. The site plan and architectural drawings of the Site are provided in **Appendix A**. Excerpts from the site plan are provided in **Figure 2**.

The site currently includes two residential dwellings that are to be demolished. The proposed development ("the Site") will consist of high-density mixed use block fronting onto Trafalgar Road with a maximum height of 30 storeys, a church and medium density blocks with a height of 8 storeys northernly away from the road.

Communal outdoor amenity areas/landscaped areas for the residential blocks are located at the northeast corner of the property and between the building blocks.

### 1.3 Nature of the Surroundings

The site is located between the intersections at Burnhamthrope Road to the north and Dundas Street East to the south.

The lands surrounding the proposed development include:

- Directly north of the site, Buttonbush Woods Park a Natural Heritage System, and adjacent residential (Sub-Urban) dwellings;
- To the east along Trafalgar Road, a future high-rise residential development and low-rise townhouses dwellings along William Colston Avenue;
- Across Trafalgar, a future low-rise townhouse development that is currently an open field; and

<sup>1</sup> For the sake of simplicity, when describing general directions in the report text, Trafalgar Road is assumed to run east to west.

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 To the west along Trafalgar Road, a future development of low-rise townhouses, currently open fields.

An overall context plan can be found in **Figure 2**. A zoning map is provided in **Figure 3**.

The topography of the area is mostly flat in nature with a minor increase in elevation from east to west along Trafalgar.

### Part 1: Impacts of the Environment on the Development

In assessing the potential impacts of the environment on the proposed development, the focus of this report is to assess the potential for:

Transportation noise impacts from the surrounding roadway(s); and

### 2.0 Transportation Noise Impacts

### 2.1 Transportation Noise Sources

Roadway and rail noise sources of interest with the potential to produce noise at the proposed development are Trafalgar Road.

Sound exposure levels at the development have been predicted, and this information has been used to identify façade, ventilation and warning clause requirements.

### 2.2 Surface Transportation Noise Criteria

### **Noise Sensitive Developments**

Ministry of the Environment, Conservation and Parks (MECP) Publication NPC-300 provides sound level criteria for noise sensitive developments. The applicable portions of NPC-300 are Part C – Land Use Planning and the associated definitions outlined in Part A – Background. **Tables 1 to 4** below summarize the applicable surface transportation (road and rail) criteria limits.

### **Location Specific Criteria**

**Table 1** summarizes criteria in terms of energy equivalent sound exposure ( $L_{eq}$ ) levels for specific noise-sensitive locations. Both outdoor and indoor locations are identified, with the focus of outdoor areas being amenity spaces. Indoor criteria vary with sensitivity of the space. As a result, sleep areas have more stringent criteria than Living / Dining room space.



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Table 1: NPC-300 Sound Level Criteria for Road and Rail Noise

Type of Space	Time Period	Exposure	valent Sound Level L <sub>eq</sub> <sup>[5]</sup> BA)	Assessment Location
		Road	Rail [1]	Assessment Location  Outdoors [2]  Indoors [4]  Indoors [4]  Indoors [4]  Indoors [4]
Outdoor Amenity Area	Daytime (0700-2300h)	55	55	Outdoors [2]
Living/Dining Room [3]	Daytime (0700-2300h)	45	40	Indoors [4]
Living/Dining Rooms	Night-time (2300-0700h)	45	40	Indoors [4]
Slooping Quarters	Daytime (0700-2300h)	45	40	Indoors [4]
Sleeping Quarters	Night-time (2300-0700h)	40	35	Indoors [4]

Notes: [1] Whistle noise is excluded for OLA noise assessments and included for Living/Dining Room and Sleeping Quarter assessments, where applicable.

- [2] Road and Rail noise impacts are to be combined for assessment of OLA impacts.
- [3] Residence area Dens, Hospitals, Nursing Homes, Schools, Daycares are also included. During the nighttime period, Schools and Daycares are excluded.
- [4] An assessment of indoor noise levels is required only if the criteria in Table 3 are exceeded.
- [5] L<sub>eq</sub> the energy equivalent sound exposure level, integrated over the time period shown.

### **Outdoor Living Areas**

**Table 2** summarizes the noise mitigation requirements for communal outdoor amenity areas ("Outdoor Living Areas" or "OLAs").

For the assessment of outdoor sound levels, total surface transportation noise is determined by combining road and rail traffic sound levels. Whistle noise from trains is not included in the determination of outdoor sound levels.

Table 2: NPC-300 OLA Sound Level Criteria for Road and Rail Noise

Time Period	OLA Energy Equivalent Sound Level L <sub>eq</sub> (dBA)		Mitigation Requirements/Warning Clause Recommendations
	≤ 55	•	None
Daytime	56 to 60 inc.	•	Noise barrier OR Type A Warning Clause
(0700-2300h)	> 60	•	Noise barrier to reduce noise to 55 dBA OR  Noise barrier to reduce noise to 60 dBA and Type B  Warning Clause

### **Ventilation and Warning Clauses**

**Table 3** summarizes recommendations for ventilation where windows would potentially have to remain closed as a means of noise control. Despite implementation of ventilation measures where recommended, if sound exposure levels exceed the guideline limits in Table 1, warning clauses advising future occupants of the potential excesses are also recommended. Warning clauses also apply to OLAs.



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**Table 3: NPC-300 Ventilation and Warning Clause Recommendations** 

Assessment Location	Time Period			Ventilation and Warning Clause Recommendations [2]		
Location		Road	Rail [1]	Recommendations 1-3		
Outdoor Living Area	Daytime (0700-2300h)	Road   Rail   11		Type A Warning Clause		
		≤ 5	5	None		
	Daytime (0700-2300h)	56 to 65 incl.		Forced Air Heating with provision to add air conditioning + Type C Warning Clause		
Plane of Window		> 65		Central Air Conditioning + Type D Warning Clause		
	Night-time	51 to 6	0 incl.	Forced Air Heating with provision to add air conditioning + Type C Warning Clause		
	(2300-0700h)	> 60		Central Air Conditioning + Type D Warning Clause		
Notes: [1] Whistle noise is excluded from assessment. [2] Road and Rail noise is combined for determining Ventilation and Warning Clause requirements						

### **Building Component Requirements**

Table 4 provides sound level thresholds which, if exceeded, trigger a requirement for the building shell components (i.e., wall, windows) to be designed accordingly to meet the applicable indoor sound criteria.

**Table 4: NPC-300 Building Component Assessment Requirements** 

Assessment Location	Time Period	Energy Equiv		Designed/ Selected to Meet Indoor Requirements [2]
Location		Road	Rail [1]	
Diana of Window	Daytime (0700-2300h)	> 65	> 60	
Plane of Window	Night-time (2300-0700h)	> 60	> 55	Indoor Requirements [2]

[1] Whistle noise is included in assessment Notes:

> [2] Building component requirements are assessed separately for Road and Rail, and then combined for a resultant sound isolation parameter.

#### **Traffic Data and Future Projections** 2.3

#### **Roadway Traffic Data** 2.3.1

Ultimate roadway volumes for Trafalgar Road were obtained from the Region of Halton. Total Commercial vehicle percentages were also included within the provided dataset from the



Region's Road Operations group. A day/night traffic volume split of 90% daytime/ 10% night-time was used, which is typical for urban arterial roadways.

Copies of applicable traffic data and calculations can be found in **Appendix B**. The following **Table 5** summarizes the road traffic volumes used in the analysis.

Table 5: Summary of Road Traffic Data Used in the Transportation Analysis

	Ultimate Traffic	% Day/Niç Sp	ght Volume lit <sup>[1]</sup>	Commercial Vehicle Breakdown		Vehicle	
Roadway Link	Volumes [1] AADT	Daytime	Night-time	% Medium Trucks	% Heavy Trucks	Speed (km/hr)	
Trafalgar Road – Eastbound	27,500	90	10	2.9	2.7	60	
Trafalgar Road - Westbound	27,500	90	10	3.3	2.3	60	

**Notes:** [1] A typical Day/Night split of 90% day and 10% night was assumed, consistent with MECP/ MTO practices, and typical for urban arterial roadways

[2] Total Commercial vehicle percentages obtained from traffic turning movement counts.

### 2.3.2 Transportation Impact Modelling

Ultimate roadway sound levels at the proposed development were predicted using Cadna/A, a commercially available noise propagation modelling software.

Roadways were modelled as line sources of sound, with sound emission rates calculated using ORNAMENT algorithms, the road traffic noise model of the MECP. These predictions were validated and are equivalent to those made using the MECP's STAMSON v5.04 noise models.

Sound levels were predicted along the façades of the proposed development using the "building evaluation" feature of Cadna/A. This feature allows for noise levels to be predicted across the entire facade of a structure.

Ground absorption was included in the assessment. Grassy areas were modelled as acoustically absorptive, and roads and parking lots were modelled as acoustically reflective.

### 2.3.3 Façade Sound Levels

Predicted worst-case façade sound levels are presented in **Table 6**. The transportation façade sound levels of the development, showing the ranges of predicted daytime and night-time sound levels are shown in **Figure 4** and **Figure 5**, respectively.

STAMSON calculations at the worst-case façade location (Building A/B Ground Level) are also provided in **Appendix B**. The STAMSON and Cadna/A predictions are within 1 dB and are acoustically equivalent.



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**Table 6: Summary of Transportation Façade Sound Levels** 

Component	Façade [1]	Roadway So	ound Levels [1]
Component		L <sub>eq</sub> Daytime (dBA)	L <sub>eq</sub> Night-time (dBA)
	North	49	42
Building A/B Podium	East	66	60
	South	71	64
	West	67	61
	North	48	41
Building A Tower	East	65	59
	South	69	63
	West	66	59
	North	48	41
	East	65	58
Building B Tower	South	69	62
	West	66	60
	North	49	43
Townhouse	East	60	54
	South	60	54
	West	48	41
	North	41	34
Building C Podium	East	55	49
	South	58	51
	West	55	49
	North	43	36
	East	54	47
Building C Tower	South	57	50
_	West	54	48
	North	39	32
	East	55	48
Building D Podium	South	55	49
	West	50	44
	North	38	32
	East	52	46
Building D Tower	South	55	48
	West	51	44
	North	51	45
Building E/F Podium	East	66	59
Dunding L/I Foolulli	South	70	63
	West	66	59

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Component	Façade [1]	Roadway So	und Levels <sup>[1]</sup>
	North	51	44
Building E Tower	East	65	58
	South	69	62
	West	65	59
	North	51	44
Building F Tower	East	61	54
	South	66	60
	West	64	58
	North	43	36
Building G/H Podium	East	49	43
	South	59	52
	West	58	51
	North	42	35
Building G Tower	East	51	45
	South	57	50
	West	56	49
	North	38	32
Building H Tower	East	50	43
	South	56	50
	West	55	48
	North	44	37
Building I Podium	East	38	31
_ = = = = = = = = = = = = = = = = = = =	South	55	49
	West	55	49
	North	39	33
Building I Tower	East	45	39
24.4.19 1 10.101	South	53	46
	West	53	47

**Notes:** [1] The sound levels presented are for the worst-case exposed façade, in which totals may not correspond to the same location.

[2] East and West façades are perpendicular to Trafalgar Road; North and South façades are parallel.

### 2.4 Façade Recommendations

### 2.4.1 Glazing Requirements

An assessment of indoor noise levels is required providing the façade sound levels due to road traffic exceed 65 dBA during the daytime or 60 dBA during the night-time periods. A detailed assessment of glazing requirements is required to ensure the indoor noise criteria listed in **Table 4** are met.

Indoor sound levels and required Sound Transmission Class (STC) ratings for façade components were estimated using the procedures outlined in the National Research Council Building Practice Note BPN-56. This document provides corrections to estimate the STC ratings



required based on either roadway or railway noise levels. BPN-56 calculations are provided in **Appendix D.** 

- Detailed floor plates were not available at the time of this assessment. For the analysis, standard room dimensions for bedrooms and living/dining rooms have been considered. The following assumptions have been made:
- Window wall construction with vision glazing and glass spandrel panel elements;
- For kitchen/dining/living rooms 80% of the exterior wall area is vision glass / patio doors;
- For bedrooms 50% of the exterior wall area is vision glass;
- Non-glazing portions of the wall have an assumed STC rating of 45;
- Living rooms were assumed to be 3 m x 6 m in size and typically have an intermediate level of acoustic absorption; and
- Bedrooms were assumed to be 3 m x 3 m in size typically have an intermediate level of acoustic absorption.

Table 7: Glazing Requirements - Living/Dining and Bedrooms

Duilding		Non Clarina	Glazing Req	uirements [1]
Building Section	Façade	Non-Glazing Veneer	Living Room / Patio Doors	Bedroom
	North	45	OBC	OBC
Building A/B Podium	East	45	OBC	OBC
Podium	South	45	OBC	31
	West	45	OBC	OBC
	North	45	OBC	OBC
Building A Tower	East	45	OBC	OBC
rower	South	45	30	32
	West	45	OBC	OBC
	North	45	OBC	OBC
Building B Tower	East	45	OBC	OBC
rower	South	45	30	32
	West	45	OBC	OBC
	North	45	OBC	OBC
Townhouse	East	45	OBC	OBC
	South	45	OBC	OBC
	West	45	OBC	OBC
		Cont	inued	
Building C	North	45	OBC	OBC



Building	Façade	Non-Glazing	Glazing Re	quirements <sup>[1]</sup>
Podium	East	45	OBC	OBC
	South	45	OBC	OBC
	West	45	OBC	OBC
	North	45	OBC	OBC
Building C	East	45	OBC	OBC
Tower	South	45	OBC	OBC
-	West	45	OBC	OBC
	North	45	OBC	OBC
Building D	East	45	OBC	OBC
Podium	South	45	OBC	OBC
-	West	45	OBC	OBC
	North	45	OBC	OBC
Building D	East	45	OBC	OBC
Tower	South	45	OBC	OBC
-	West	45	OBC	OBC
	North	45	OBC	OBC
Building E/F	East	45	OBC	OBC
Podium	South	45	OBC	30
	West	45	OBC	OBC
	North	45	OBC	OBC
Building E	East	45	OBC	OBC
Tower	South	45	30	32
-	West	45	OBC	OBC
	North	45	OBC	OBC
Building F	East	45	OBC	OBC
Tower	South	45	OBC	OBC
-	West	45	OBC	OBC
	North	45	OBC	OBC
Building G/H	East	45	OBC	OBC
Podium	South	45	OBC	OBC
-	West	45	OBC	OBC
	West	I.	inued	050
Building G	North	45	OBC	OBC
		1	1	



Building	Façade	Non-Glazing	Glazing Rec	uirements <sup>[1]</sup>
Tower	East	45	OBC	OBC
	South	45	OBC	OBC
	West	45	OBC	OBC
	North	45	OBC	OBC
Building H	East	45	OBC	OBC
Tower	South	45	OBC	OBC
	West	45	OBC	OBC
	North	45	OBC	OBC
Building I	East	45	OBC	OBC
Podium	South	45	OBC	OBC
	West	45	OBC	OBC
	North	45	OBC	OBC
Building I	East	45	OBC	OBC
Tower	South	45	OBC	OBC
	West	45	OBC	OBC

**Table 8: Glazing Requirements - Corner Units** 

Building	Façade	Non-Glazing	Glazing Req	quirements [1]	
Section		Veneer	Living Room / Patio Doors	Bedroom	
	North-east	45	OBC	OBC	
Building A/B	South-east	45	30	32	
Podium	South-west	45	31	33	
	North-west	45	OBC	OBC	
	North-east	45	OBC	OBC	
Building A Tower	South-east	45	32	34	
rower	South-west	45	32	34	
	North-west	45	OBC	OBC	
	North-east	45	OBC	OBC	
Building B	South-east	45	31	33	
Tower	South-west	45	32	34	
	North-west	45	OBC	29	
Townhouse	North-east	45	OBC	OBC	



Building	Façade	Non-Glazing	Glazing Re	quirements [1]
	South-east	45	OBC	OBC
	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building C	South-east	45	OBC	OBC
Podium	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building C	South-east	45	OBC	OBC
Tower	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building D	South-east	45	OBC	OBC
Podium	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building D Tower	South-east	45	OBC	OBC
	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building E/F	South-east	45	30	32
Podium	South-west	45	30	32
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building E	South-east	45	31	33
Tower	South-west	45	31	33
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building F	South-east	45	OBC	30
ıower	South-west	45	29	31
	North-west	45	OBC	OBC
		Cont	inued	
Building G/H	North-east	45	OBC	OBC
Building F Tower	North-west North-east South-east South-west North-west	45 45 45 45 45 Cont	OBC OBC OBC 29 OBC inued	OBC OBC 30 31 OBC



Building	Façade	Non-Glazing	Glazing Red	quirements <sup>[1]</sup>
Podium	South-east	45	OBC	OBC
	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building G	South-east	45	OBC	OBC
Tower	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building H	South-east	45	OBC	OBC
Tower	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building I	South-east	45	OBC	OBC
Podium	South-west	45	OBC	OBC
	North-west	45	OBC	OBC
	North-east	45	OBC	OBC
Building I	South-east	45	OBC	OBC
Tower	South-west	45	OBC	OBC
	North-west	45	OBC	OBC

With the inclusion of the above, indoor sound levels will meet the applicable limits.

Notes: [1] OBC = Meeting minimum thermal and structural requirements of the Ontario Building Code

### 2.4.2 Outdoor Amenity Space Sound Levels and Requirements

Predicted unmitigated worst-case sound levels from adjacent roadways are presented in **Table 7** for the outdoor amenity spaces of the development. Assessment locations and resulting transportation sound levels are shown in **Figure 4**.



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Table 9: Outdoor Living Area Sound Levels - Transportation, Unmitigated

OLA Location	Transportation Impacts L <sub>eq</sub> Day (dBA)	Applicable Guideline Limit Leq Day (dBA) [1]	Meets Criteria (Y/N)?
Building A/B – 4 <sup>th</sup> Floor Roof	42		Υ
Building D – 6 <sup>th</sup> Floor Roof	53		Υ
Building E/F – 2 <sup>nd</sup> Floor Roof	43	60	Υ
Building G/H – 6 <sup>th</sup> Floor Roof	50		Y
Building I - 6 <sup>th</sup> Floor Roof	53		Y

Notes: [1] Sound levels up to 60 dBA are allowed with the use of a Type A/B Warning Clause. See Publication NPC-300 Section C7.1.1 - Outdoor Living Areas

The predicted sound levels at the common amenity areas are predicted to be below 55 dBA, therefore noise mitigation/warning clauses are not required. See Figure 4.

#### 2.4.3 Warning Clause Requirements

The triggers for warning clauses are summarized in **Table 3**. Where recommended, the warning clauses should be included in agreements registered on Title for the residential units and included in all agreements of purchase and sale or lease and all rental agreements.

Based on the predicted façade sound levels, an MECP Type D warning clause, and mandatory central air conditioning are recommended for all units of the following facades:

- Building A/B Podium East, South, and West Façades,
- Building A Tower, South, and West Façades,
- Building B Tower, South, and West Façades,
- Building E/F Podium East, South, and West Facades,
- Building E Tower, South Façades, and
- Building F Tower, South Façades.

Based on the predicted façade sound levels, an MECP Type C warning clause, forced air heating and a provision to install air-conditioning are recommended for all units of the following façades:

- Building A Tower, East Facade,
- Building B Tower, East Façade,
- Townhouses, South, and East Façades,
- Building C Podium and Tower, South Façade,
- Building E Tower, East, and West Façades,
- Building F Tower, East and West Façades,
- Building G/H Podium and Tower, South, and West Façades,

Ventilation and warning clause recommendations are summarized in **Appendix C**.



### 3.0 Stationary Source Noise Impacts

A site visit to the Project site and surrounding area was completed by SLR personnel on May 26<sup>th</sup>, 2023. The focus of the site visit was to identify nearby potential stationary sources of noise in proximity to the proposed development.

The Project site was found to be primarily surrounded by future residential and agricultural land uses. There were no industrial land uses identified in proximity to the proposed development. No stationary sources of noise were audible above the background/ambient acoustic environment at the Project site during the site visit. The nearest potential source of stationary source noise are located closer to existing noise-sensitive points of receptions where guideline limits are expected to be met.

Stationary source noise is not expected to be of concern, and a detailed assessment was not completed.



# PART 2: IMPACTS OF THE DEVELOPMENT ON THE SURROUNDING AREA

### 4.0 Impacts on Surrounding Properties

In terms of the noise environment of the area, it is expected that the project will have a negligible effect on the neighbouring properties.

The traffic related to the proposed development will be small relative to the existing traffic volumes within the area and is not of concern with respect to noise impact.

Other possible development noise sources with potentially adverse impacts on the surrounding neighbourhood are the mechanical roof-top equipment (chillers, make up air units and generator). This equipment is required to meet MECP Publication NPC-300 requirements at the worst-case off-site noise sensitive receptors. Given the requirement for the systems to meet the applicable noise guideline at closer on-site receptors, off-site impacts are not anticipated.

Regardless, potential impacts should be assessed as part of the final building design. The criteria can be met at all surrounding and on-site receptors by the appropriate selection of mechanical equipment, by locating equipment with sufficient setback from noise sensitive locations, and by incorporating control measures (e.g., silencers, barriers) into the design.

It is recommended the mechanical systems be reviewed by an Acoustical Consultant prior to final selection of equipment.

### PART 3: IMPACTS OF THE DEVELOPMENT ON ITSELF

# 5.0 Noise Impacts from the Development Mechanical Systems on Itself

The building mechanical systems (e.g., cooling systems, emergency generator, parking garage vents) have not been designed in detail at this stage. Although no adverse impacts are expected, such equipment has the potential to result in noise impacts on the noise sensitive spaces within the development.

Therefore, the potential impacts should be assessed as part of the final building design. The criteria is expected to be met at all on-site receptors with the appropriate selection of mechanical equipment, by locating equipment to minimize noise impacts within the development.

It is recommended that the mechanical systems be reviewed by an Acoustical Consultant prior to final selection of equipment.

### 6.0 Conclusions and Recommendations

The potential for noise impacts on and from the proposed development have been assessed. Impacts of the environment on the development, the development on the surrounding area and the development on itself have been considered. Based on the results of our studies, the following conclusions have been reached:



August 4, 2023

SLR Project No.: 241.30627.00000

### 6.1 Transportation Noise

An assessment of transportation noise impacts from surrounding roadways has been completed. Based on the assessment:

- Window upgrades above standard glazing meeting the Ontario Building Code (STC 29) are not required, as outlined in Section 2.4.1
- Mandatory central air conditioning is required for portions of the development, outlined in **Section 2.4.3.**
- Forced air heating and a provision for central air-conditioning is required for portions of the development, as outlined in Section 2.4.3.
- Type C and Type D noise warning clauses are required for some units of the proposed development. Warning clauses are summarized in Appendix C.

### 6.2 Stationary Noise

An assessment of stationary noise impacts has been completed, as outlined in Section 3. No additional mitigation is required to address surrounding stationary noise impacts.

### 6.3 Overall Assessment

- Impacts of the environment on the proposed development can be adequately controlled through the feasible mitigation measures, façade designs, and warning clauses detailed in Part 1 of this report.
- Impacts of the proposed development on the surrounding area are anticipated to be negligible and can be adequately controlled by following the design guidance outlined in Part 2 of this report.
- Impacts of the proposed development on itself are anticipated to be negligible and can be adequately controlled by following the design guidance outlined in Part 3 of this report.
- As the mechanical systems for the proposed development have not been designed at the time of this assessment, the acoustical requirements above should be confirmed by an Acoustical Consultant as part of the final building design.



### 7.0 Closure

Should you have questions on the above report, please contact the undersigned.

Regards,

SLR Consulting (Canada) Ltd.

Jason Dorssers, B.Eng., EIT Acoustics Consultant

Aaron Haniff, P.Eng.
Principal Noise Engineer

E.K. HANIFF 100139574



## 8.0 References

International Organization for Standardization, ISO 9613-2: Acoustics – Attenuation of Sound During Propagation Outdoors Part 2: General Method of Calculation, Geneva, Switzerland, 1996.

National Research Council, (NRC, 1985). Building Practice Note: Controlling Sound Transmission into Buildings, ISSN 0701-5216

Ontario Ministry of the Environment, Conservation and Parks (MECP, 1989). *Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT)* 

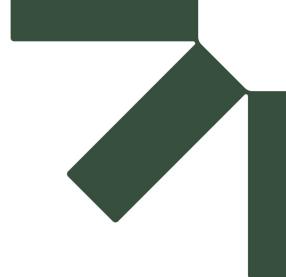
Ontario Ministry of the Environment, Conservation and Parks (MECP, 1996). STAMSON v5.03: Road, Rail and Rapid Transit Noise Prediction Model

Ontario Ministry of the Environment, Conservation and Parks (MECP, 2013), *Publication NPC-300: Environmental Noise Guideline: Stationary and Transportation Sources – Approval and Planning* 



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SLR Project No.: 241.30627.00000



## **Figures**

### 3272 & 3301 Trafalgar Road

Environmental Noise Feasibility Study, Oakville, ON

3275 Trafalgar Limited Partnership

SLR Project No.: 241.30627.00000

August 4, 2023





### 3275 TRAFALGAR LIMITED PARTNERSHIP

3272 & 3301 TRAFALGAR ROAD, OAKVILLE, ON

**CONTEXT PLAN** 

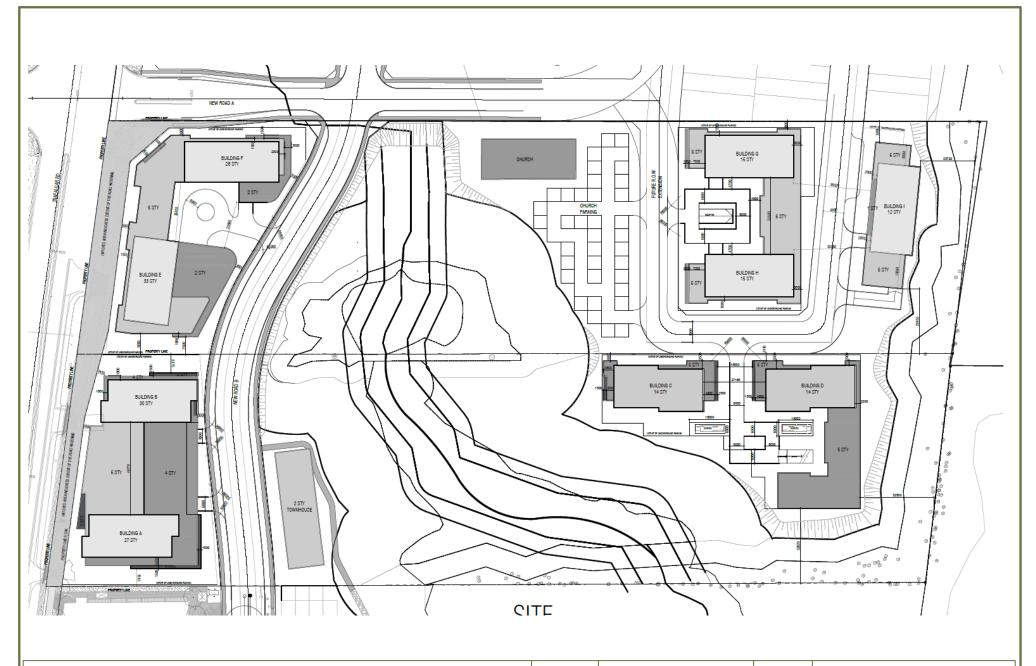
True North



Scale:		1: 5,000	METRE
Date <sup>.</sup>	June 2023	Rev 0.0	Figure N

Project No. 241.30627.00000





3272 & 3301 TRAFALGAR ROAD, OAKVILLE, ON

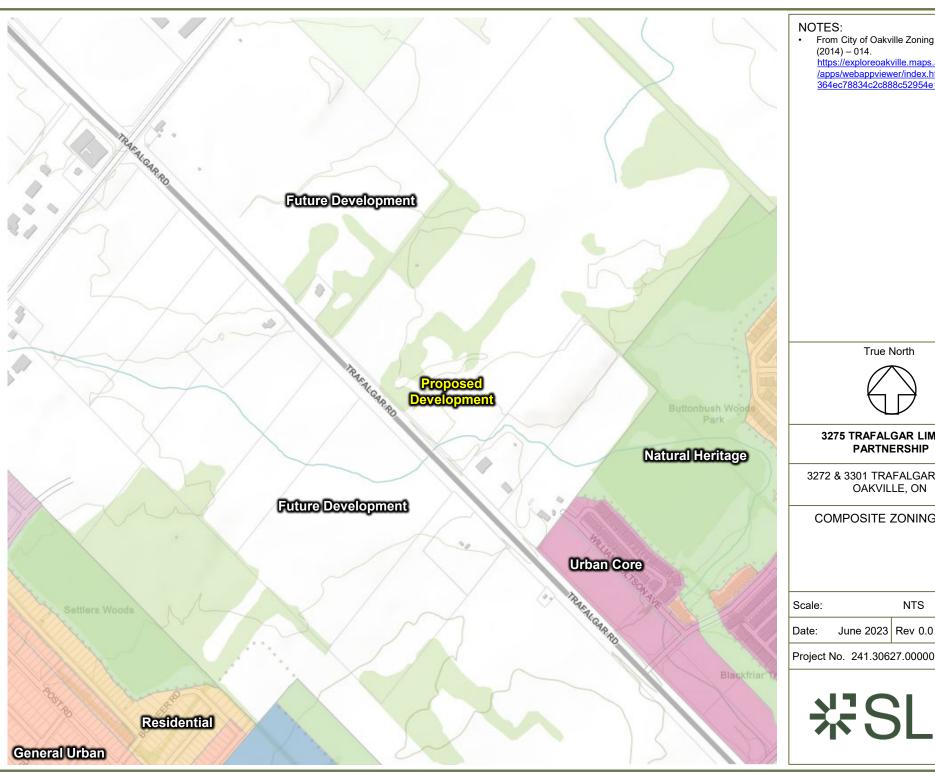
EXCERPTS FROM SITE PLAN

True	North



Scale:		NTS	METRES
Date:	June 2023	Rev 0.0	Figure No.
Project I	No. 241.306	27.00000	2





• From City of Oakville Zoning By-Law

https://exploreoakville.maps.arcgis.com /apps/webappviewer/index.html?id=56a 364ec78834c2c888c52954e182f57

True North



### 3275 TRAFALGAR LIMITED **PARTNERSHIP**

3272 & 3301 TRAFALGAR ROAD, OAKVILLE, ON

COMPOSITE ZONING MAP

**METRES** NTS June 2023 Rev 0.0 Figure No. 3

袋SLR







## **Appendix A** Development Drawings

### 3272 & 3301 Trafalgar Road

Environmental Noise Feasibility Study, Oakville, ON

3275 Trafalgar Limited Partnership

SLR Project No.: 241.30627.00000

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BUILDING G

BUILDING H

EXTENT OF UNDERGROUND PARKING

BUILDING D 14 STY

15 STY

BUILDING C 14 STY

CHURCH

CITE

6 STY 🗟

BUILDING I

6 STY

NEW ROAD A

BUILDING F

2 STY

6 STY

BUILDING E

BUILDING B 30 STY

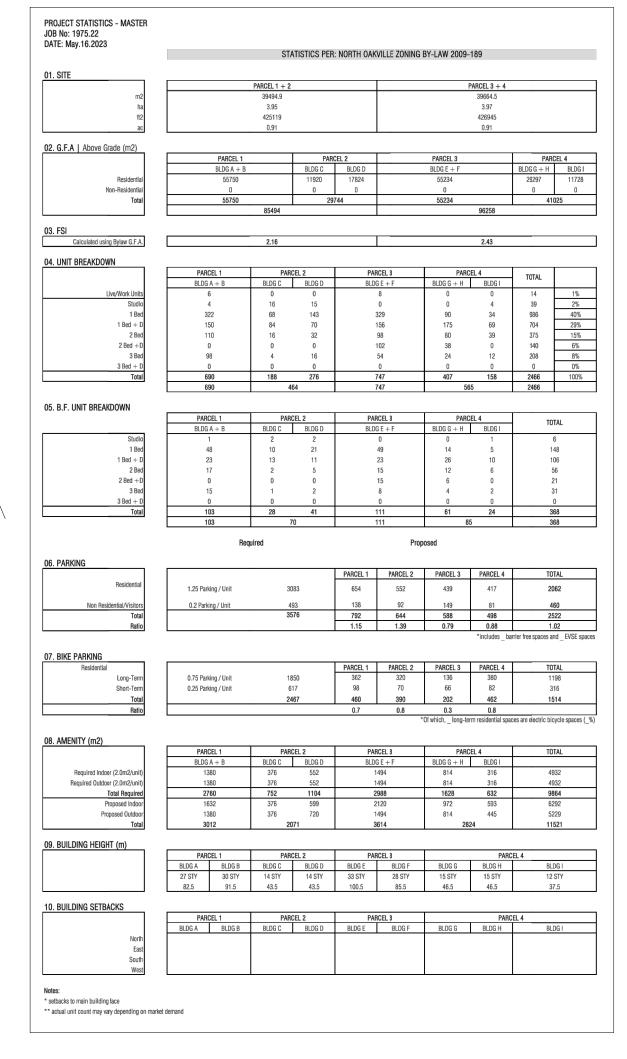
BUILDING A

27 STY

4 STY

2 STY TOWNHOUSE

33 STY



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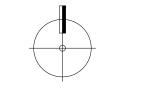
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## OVERALL SITE PLAN



>>>> TYPICAL UNDERGROUND

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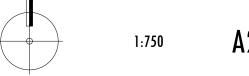
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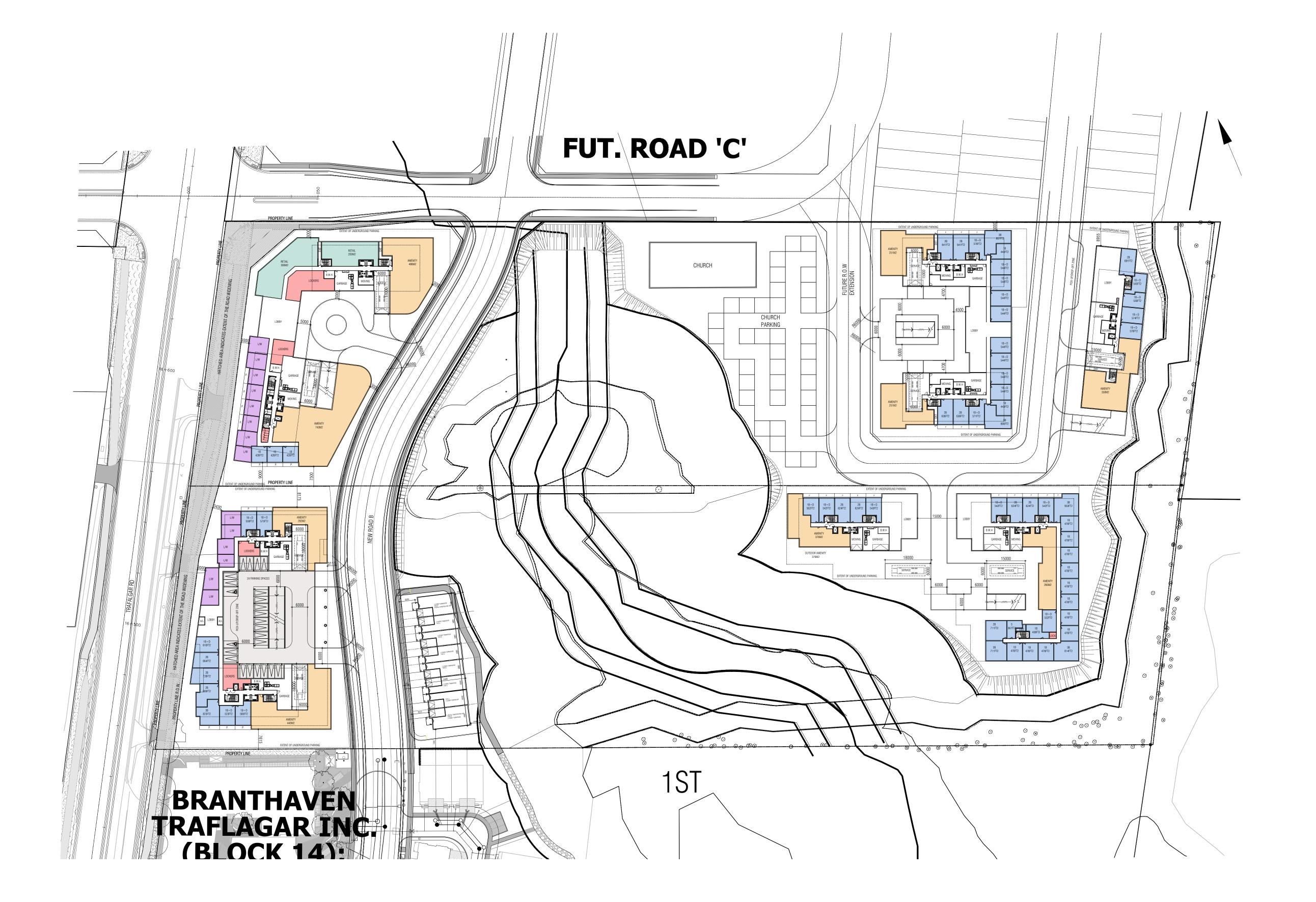
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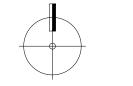
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## 2ND FLOOR PLAN

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OAKVILLE

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3RD

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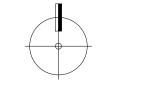
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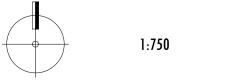
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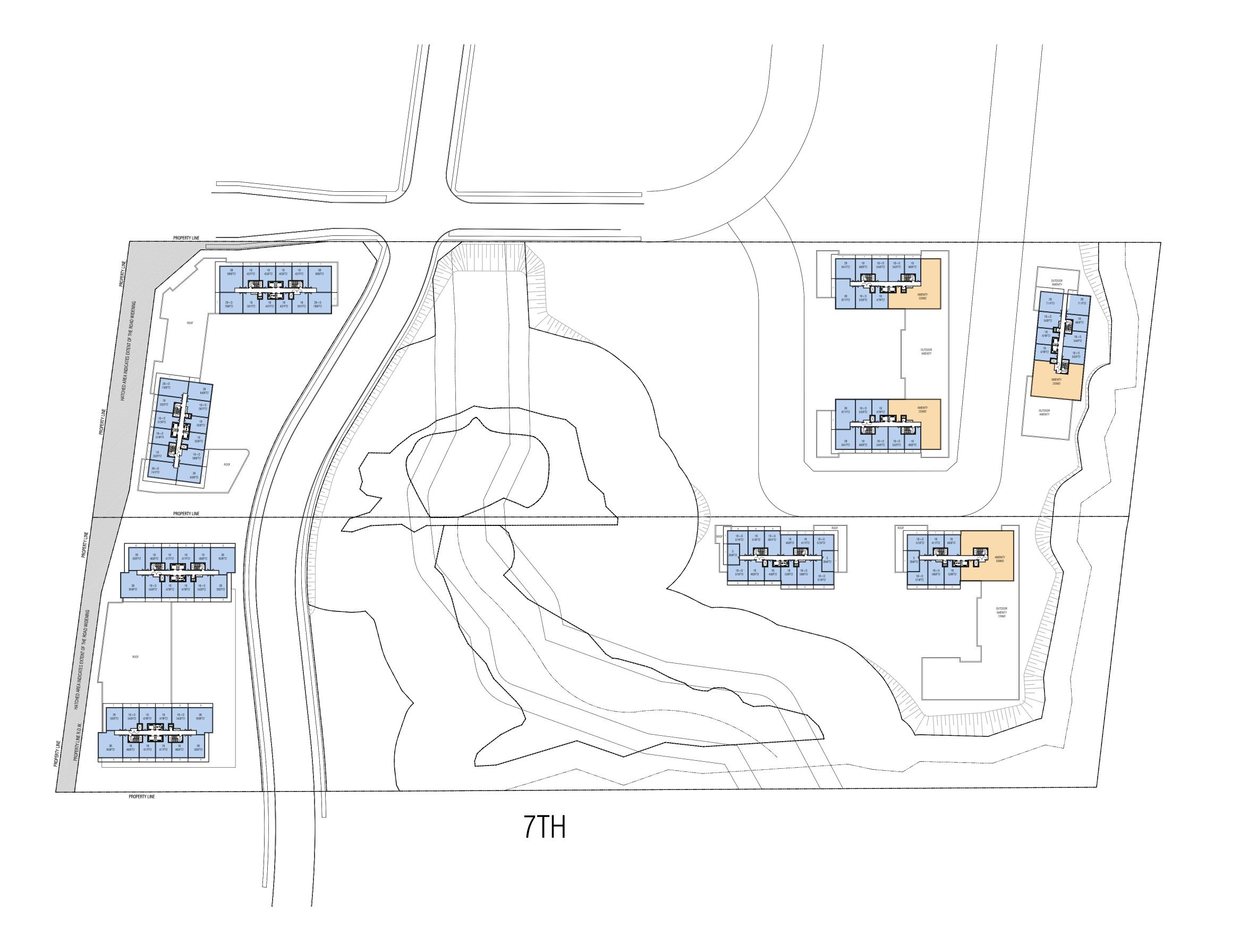
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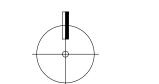
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7TH FLOOR PLAN



A307 1:750



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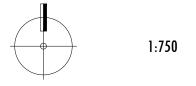
2. TRANSMISSION OF ANY VIRUS OR DAMAGE TO THE RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS TRANSFERRED.



## TRAFALGAR

3275 TRAFALGAR RD	ONTARIO
B.G.	
R.L.	
R.L.	
MAY.17.2023	
1975.22	
	B.G. R.L. R.L. MAY.17.2023

### 8TH FLOOR PLAN



TYPICAL FLOORS

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JOB#	1975.22	
PLOT DATE:	MAY.17.2023	
CHECKED BY:	N.L.	
DRAWN BY:	R.L.	
ASSISTANT DESIGNER:	R.L.	
PROJECT ARCHITECT:	B.G.	
OAKVILLE	3275 TRAFALGAR RD	01

### TYP. FLOOR PLAN



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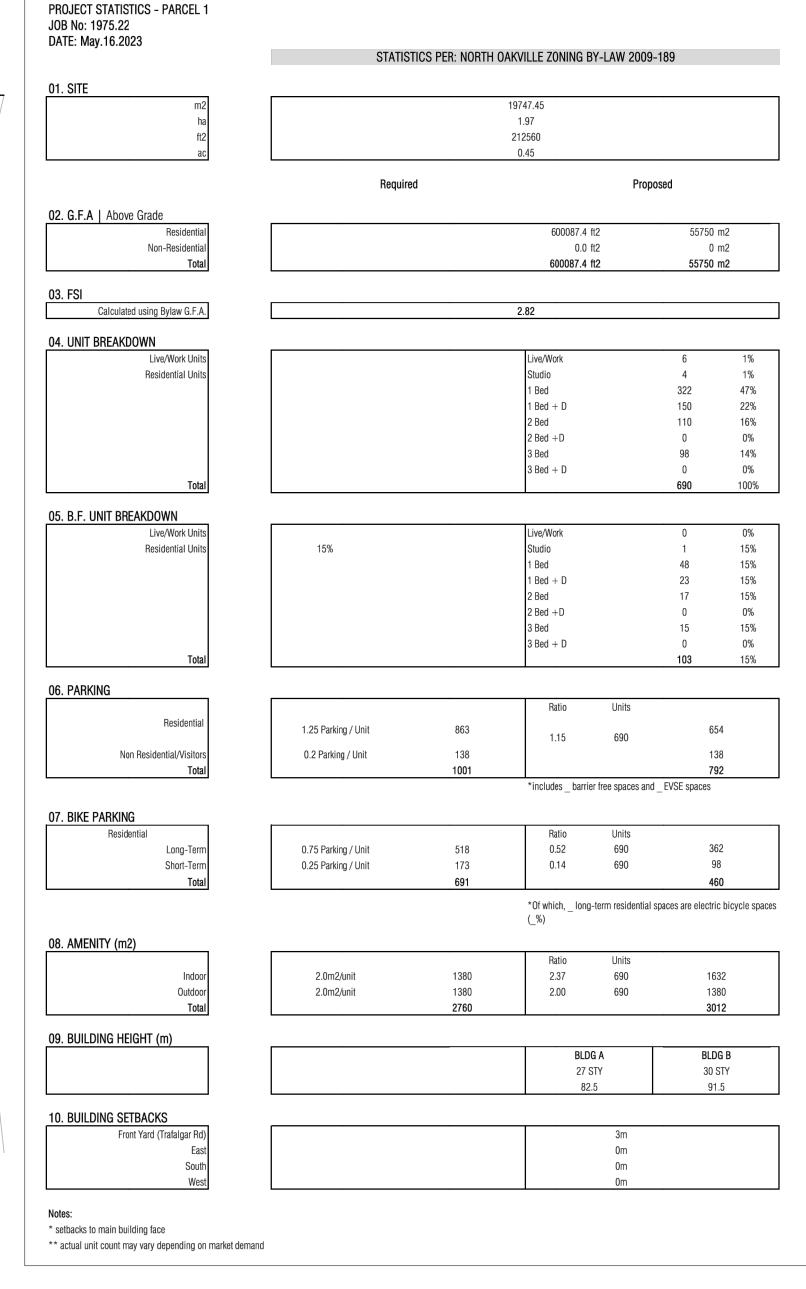
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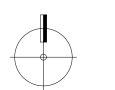
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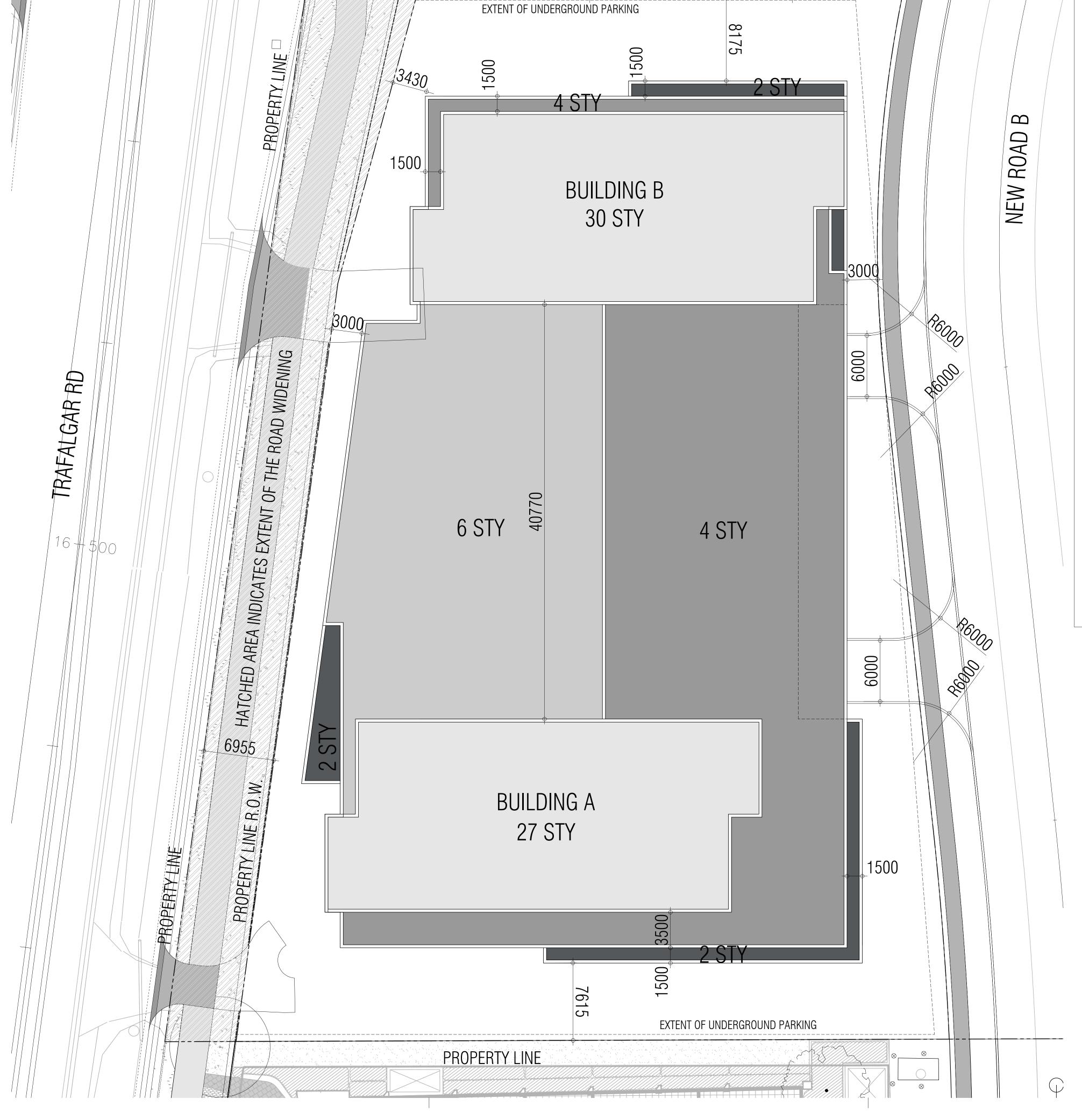
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OAKVILLE	3275 TRAFALGAR RD	ONTARIO
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	
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	CITE DI AM	

SITE PLAN



A101





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JOB#	1975.22	
PLOT DATE:	MAY.17.2023	
CHECKED BY:		
DRAWN BY:	R.L.	
ASSISTANT DESIGNER:	R.L.	
PROJECT ARCHITECT:	B.G.	
OAKVILLE	3273 TRAFALOAR RD	ONTAI
	3275 TRAFALGAR RD	

#### PARCEL 1

#### TYP. UNDERGROUND PLAN





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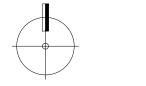
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ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	

### PARCEL 1 **GROUND PLAN**

A301



TITLEBLOCK SIZE: 610 x 900

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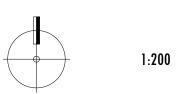
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### PARCEL 1 2ND FLOOR PLAN





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  2. Transmission of any virus or damage to the receiving electronic system when information is transferred.

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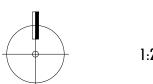
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CHECKED BY:		
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#### PARCEL I 3RD FLOOR PLAN



A303



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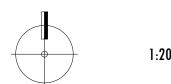
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ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
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	PARCEL 1	

#### PAKCEL I **4TH FLOOR PLAN**





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# TRAFALGAR

3275	TRAFALGAR RD	

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PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	
	DADCEL 1	

### PARCEL 1 **5TH FLOOR PLAN**





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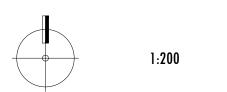
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ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
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JOB#	1975.22	
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#### PARCELI **6TH FLOOR PLAN**





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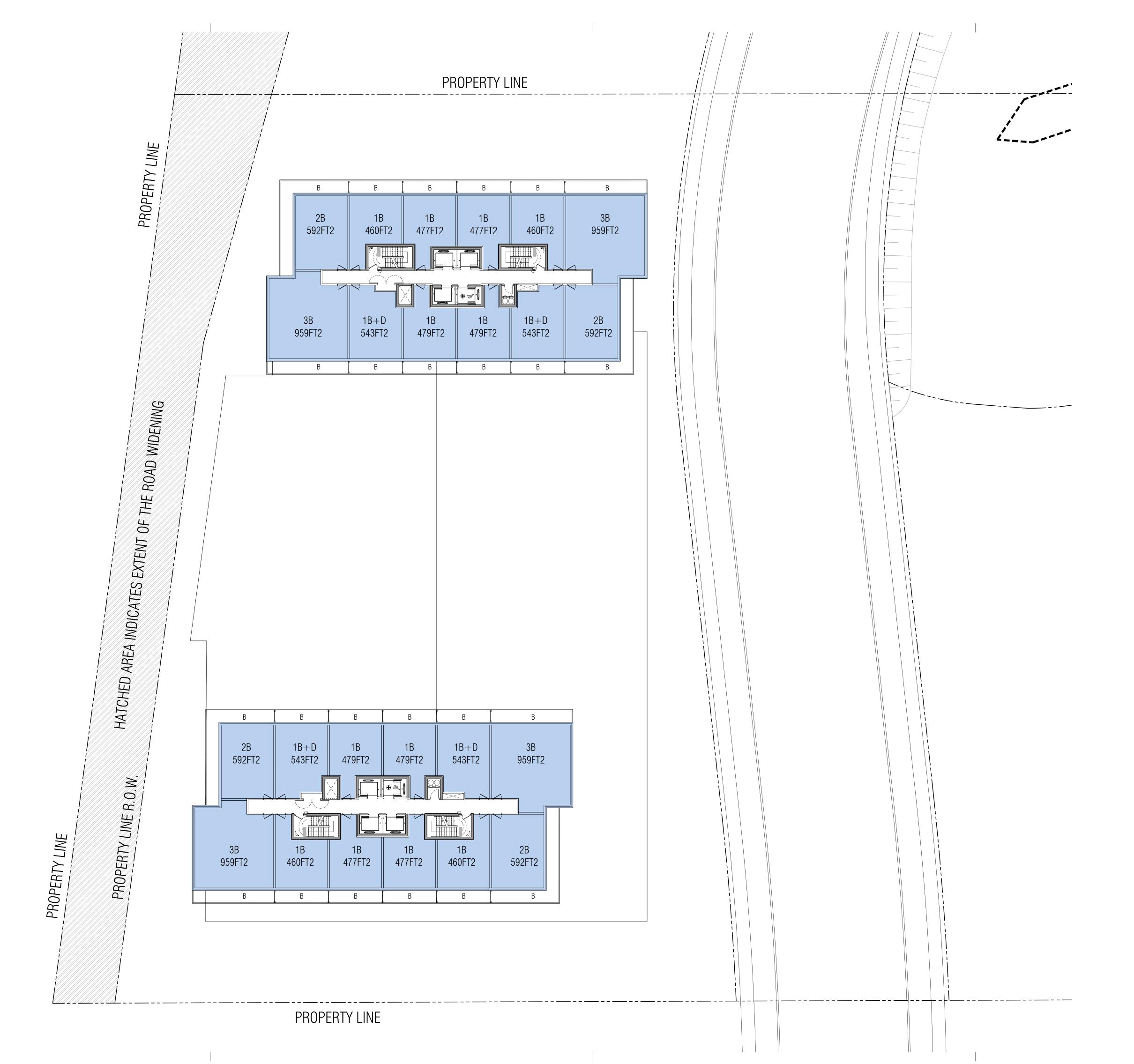
### TRAFALGAR

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OAKVILLE	3275 TRAFALGAR RD	ONTARIO
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
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### PARCEL 1 7TH FLOOR PLAN





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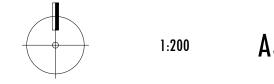
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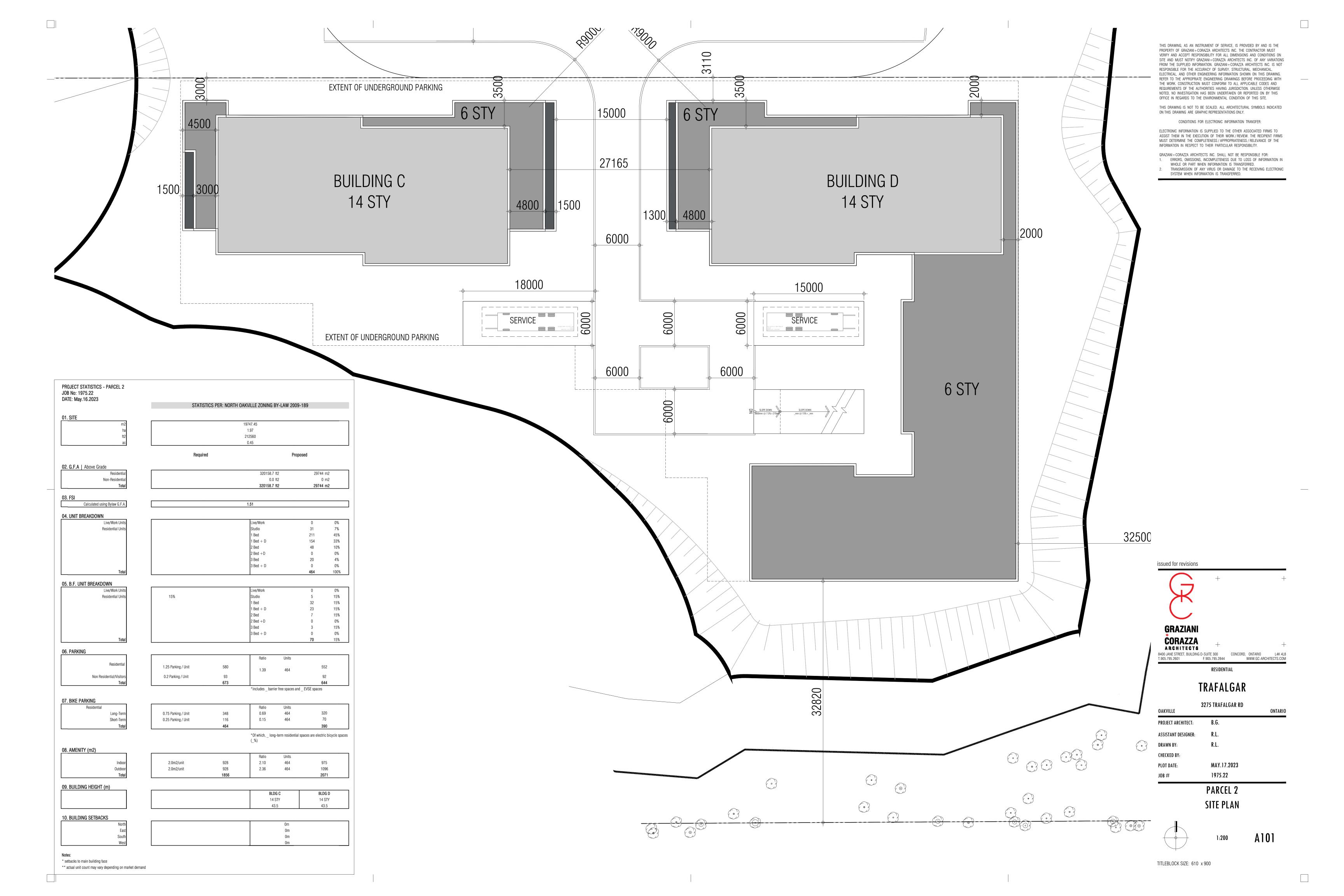
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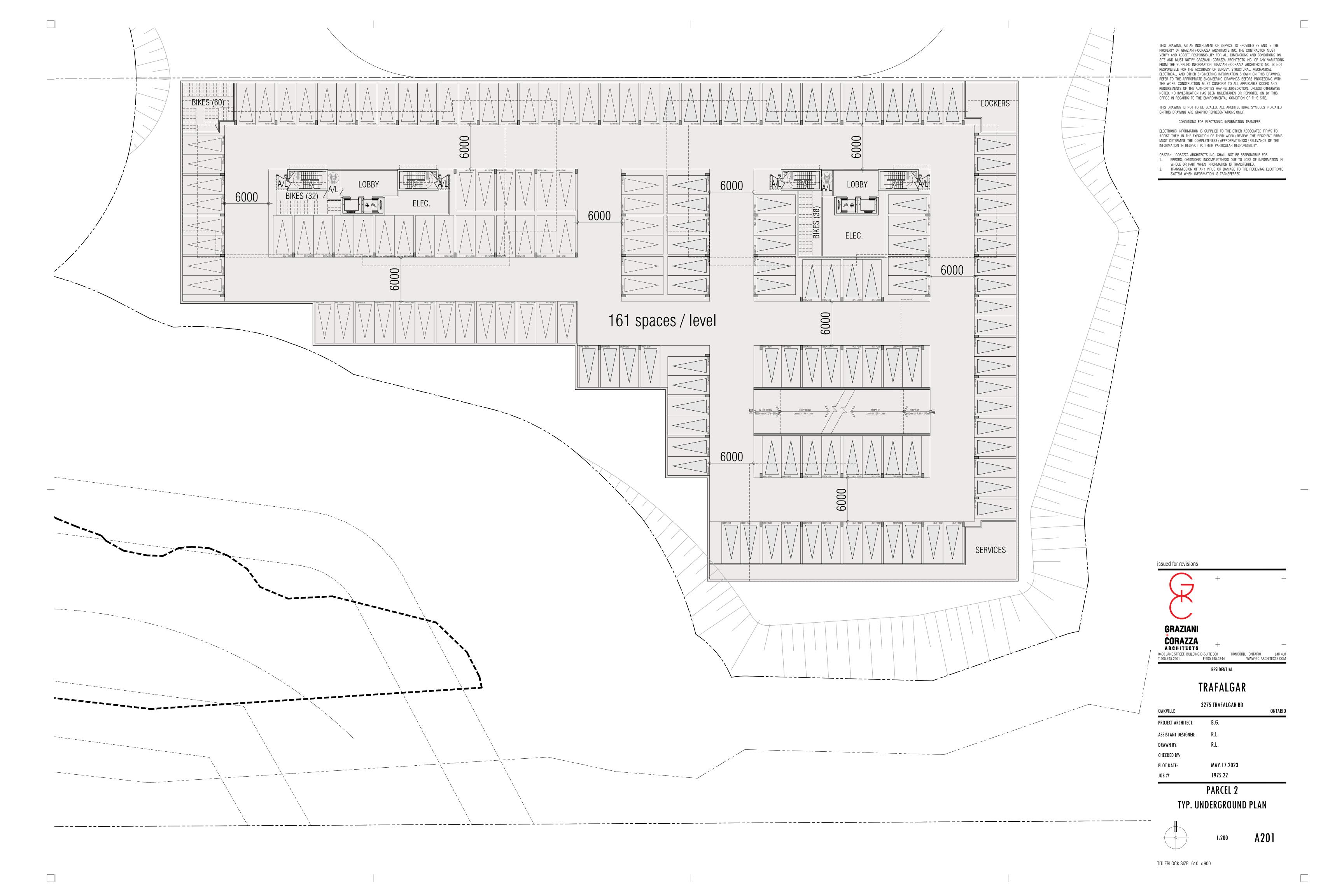
# TRAFALGAR

	3275 TRAFALGAR RD	
OAKVILLE		ONTARIO
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
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PLOT DATE:	MAY.17.2023	
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	PARCEL 1	

### PAKCEL I













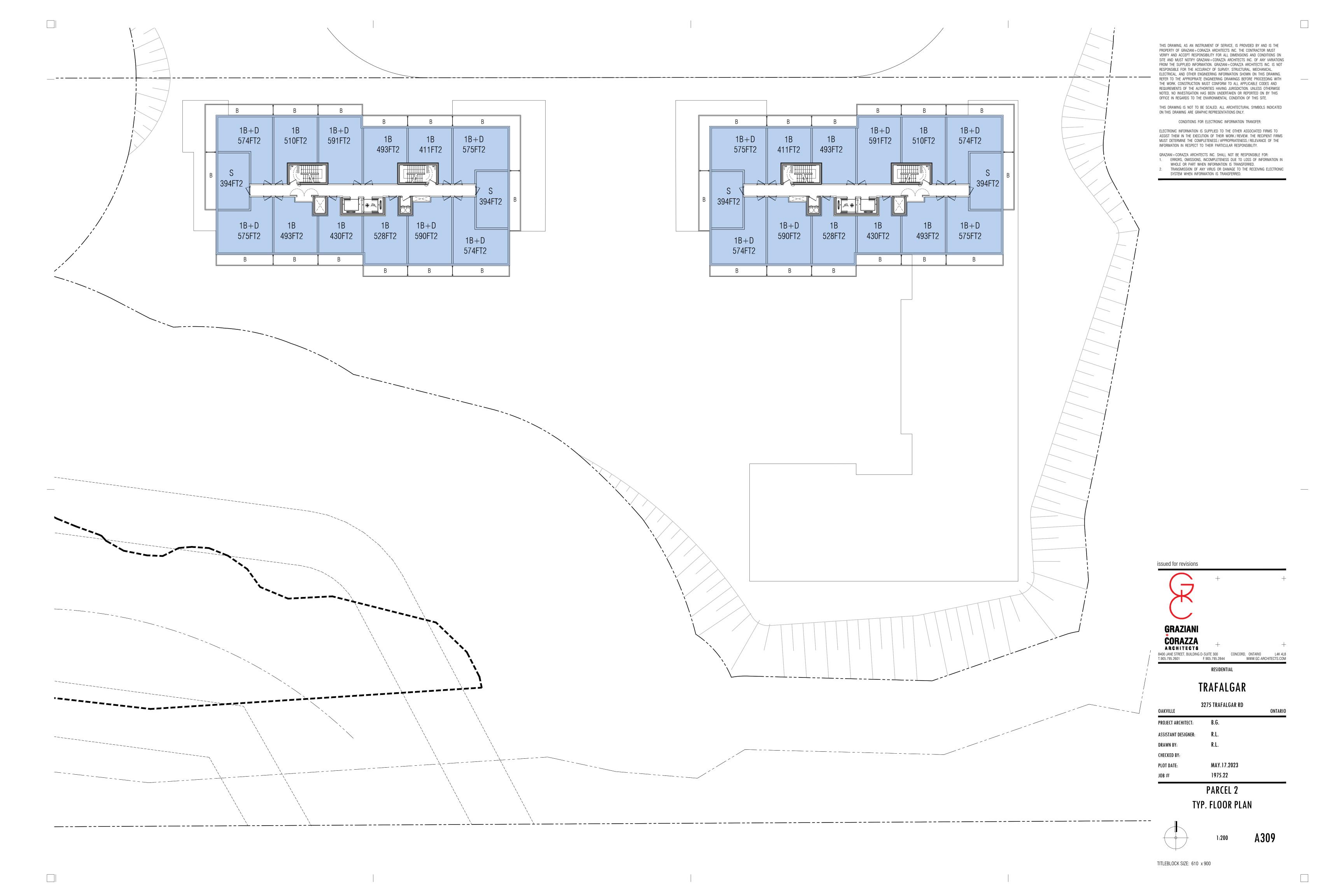












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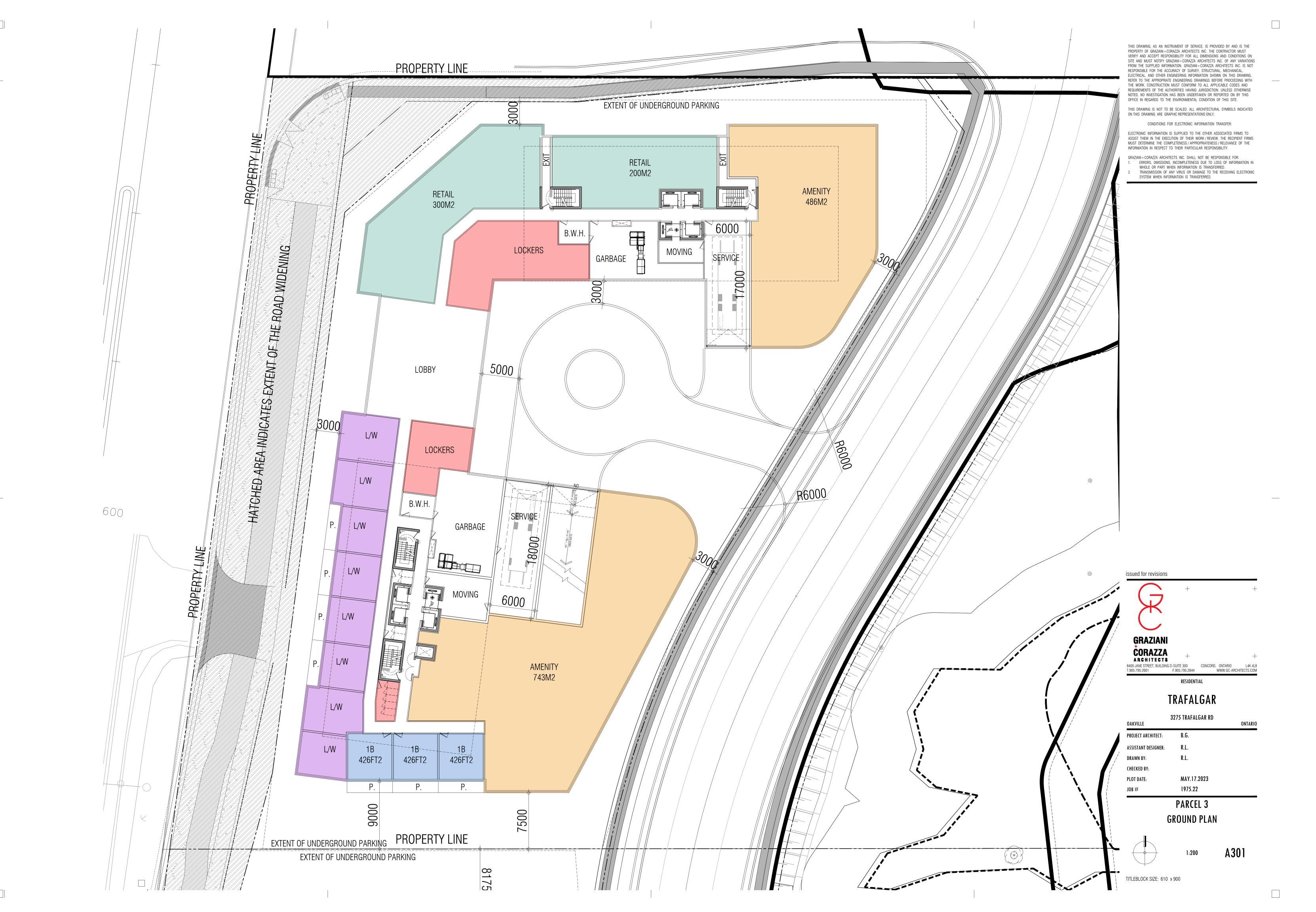
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1975.22

PARCEL 3

SITE PLAN















PROJECT STATISTICS - PARCEL 4

JOB No: 1975.22

JOB No: 1975.22

DATE: May.16.2023

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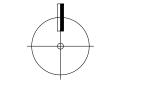
TRANSMISSION OF ANY VIRUS OR DAMAGE TO THE RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS TRANSFERRED.



# TRAFALGAR

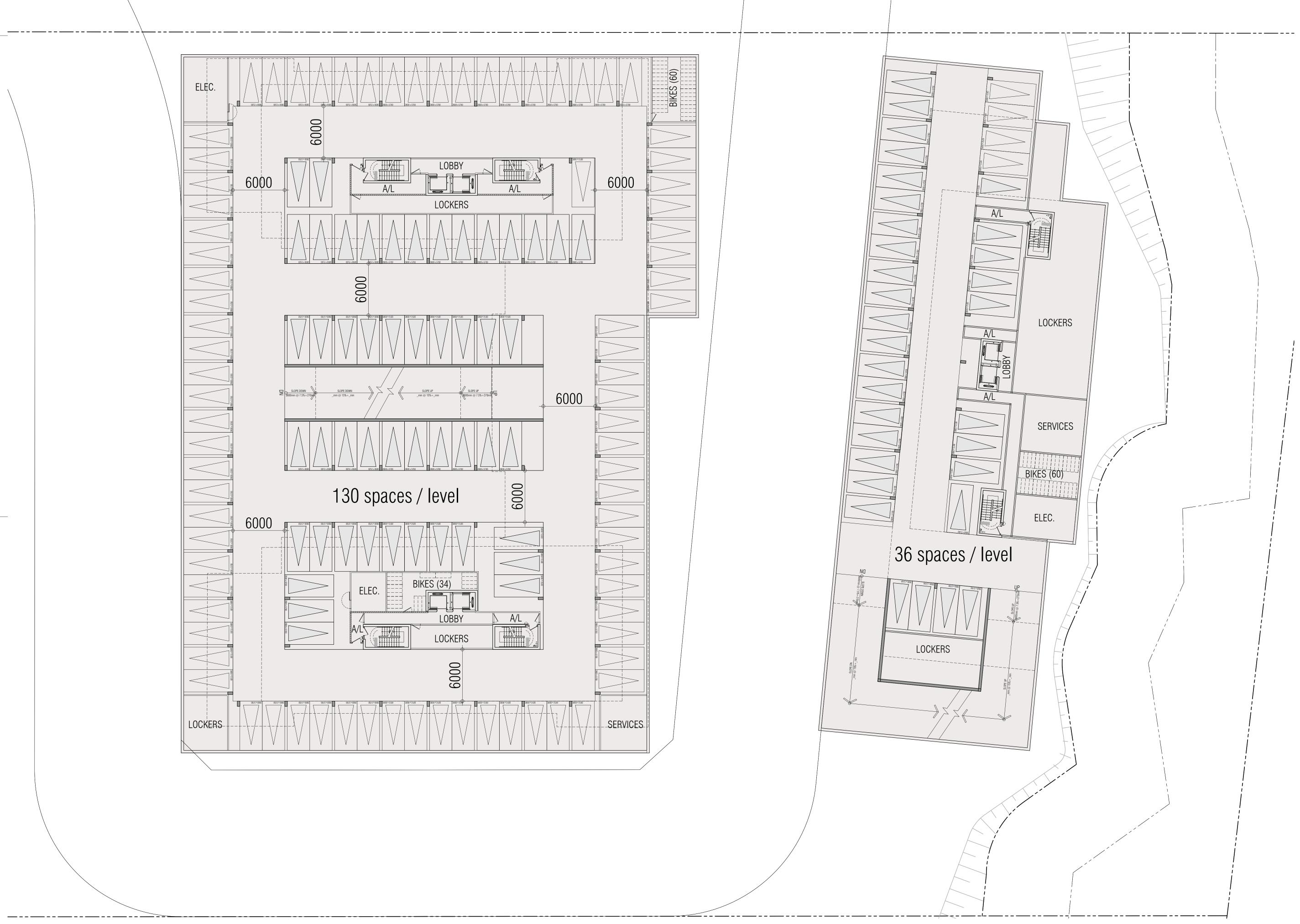
_	3275 TRAFALGAR RD	
OAKVILLE		ONTARIO
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	
	PARCEL 4	
	IANCLL	

# SITE PLAN



A10





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#### CONDITIONS FOR ELECTRONIC INFORMATION TRANSFER:

ELECTRONIC INFORMATION IS SUPPLIED TO THE OTHER ASSOCIATED FIRMS TO ASSIST THEM IN THE EXECUTION OF THEIR WORK/REVIEW. THE RECIPIENT FIRMS
MUST DETERMINE THE COMPLETENESS/APPROPRIATENESS/RELEVANCE OF THE INFORMATION IN RESPECT TO THEIR PARTICULAR RESPONSIBILITY.

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issued for revisions



# CORAZZA ARCHITECTS 8400 JANE STREET, BUILDING D-SUITE 300 T.905.795.2601 CONCORD, ONTARIO WWW.GC-ARCHITECTS.COM

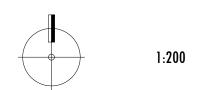
### RESIDENTIAL

# TRAFALGAR

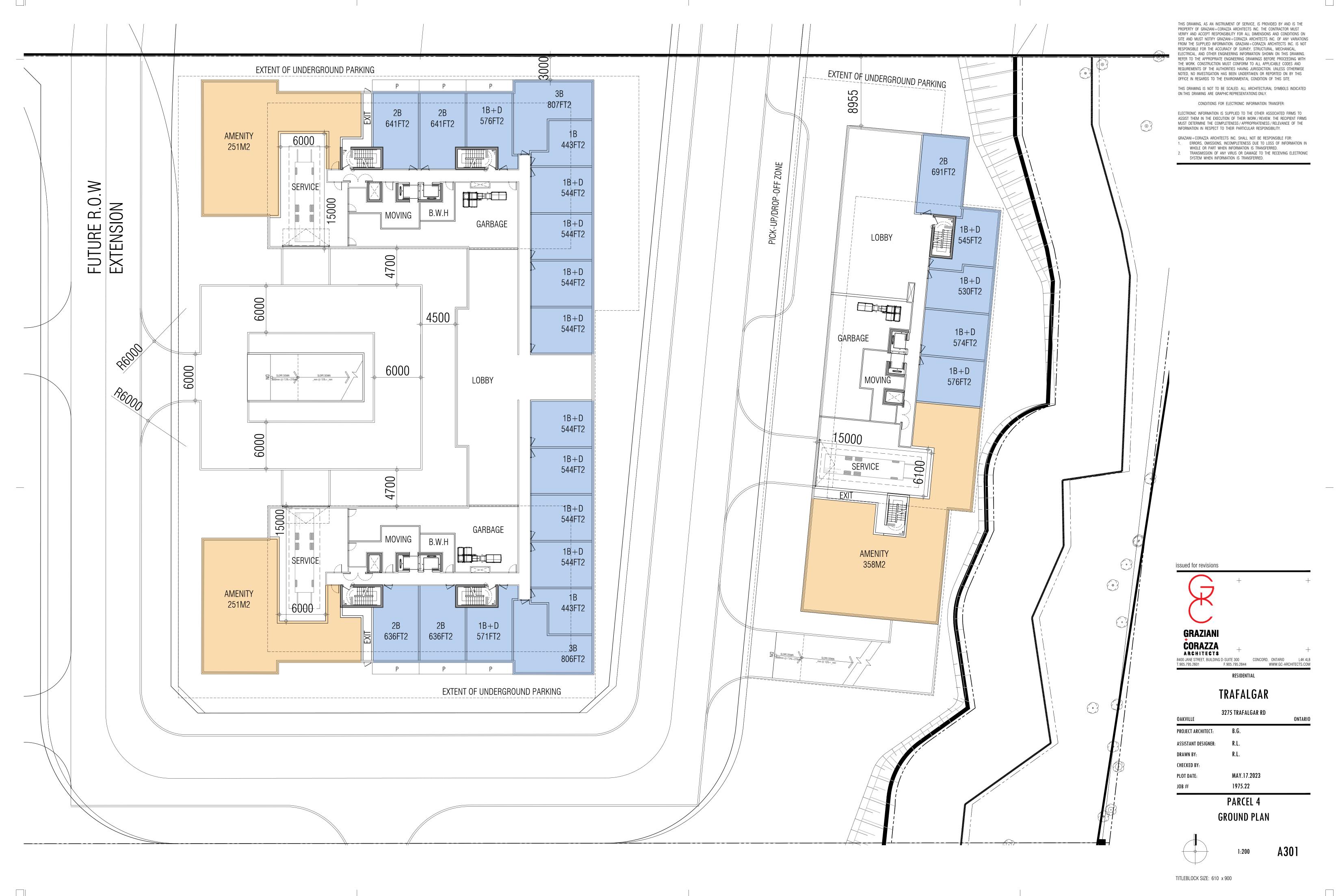
OAKVILLE	3275 TRAFALGAR RD	ONTARIO
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB #	1975.22	

## PARCEL 4

## TYP. UNDERGROUND PLAN







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1. ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION IS TRANSFERRED. 443FT2 2. TRANSMISSION OF ANY VIRUS OR DAMAGE TO THE RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS TRANSFERRED. 2B 691FT2 1B + D544FT2 479FT2 1B + DOPEN TO OPEN TO 544FT2 BELOW BELOW 2B+D1B+D1B+D772FT2 543FT2 1B+D544FT2 530FT2 1B+DOPEN TO 479FT2 544FT2 1B+D574FT2 1B+D479FT2 1B+D544FT2 576FT2 1B+D1B+D1B+D544FT2 543FT2 574FT2 1B+D544FT2 2B+DOPEN TO 772FT2  $^{-1}B+D$ OPEN TO 544FT2 BELOW 1B+D1B+D479FT2 590FT2 1B + DOPEN TO 544FT2 BELOW issued for revisions 443FT2 1B+D1B+D2B 636FT2 636FT2 554FT2 571FT2 CORAZZA ARCHITECTS OPEN TO BELOW 806FT2 8400 JANE STREET, BUILDING D-SUITE 300 CONCORD, ONTARIO L4K 4L8 T.905.795.2601 F.905.795.2844 WWW.GC-ARCHITECTS.COM RESIDENTIAL TRAFALGAR 3275 TRAFALGAR RD OAKVILLE PROJECT ARCHITECT: ASSISTANT DESIGNER: CHECKED BY: MAY.17.2023 1975.22 PARCEL 4

# 2ND FLOOR PLAN

TITLEBLOCK SIZE: 610 x 900

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GRAZIANI+CORAZZA ARCHITECTS INC. SHALL NOT BE RESPONSIBLE FOR: 1. ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN

WHOLE OR PART WHEN INFORMATION IS TRANSFERRED. 2. TRANSMISSION OF ANY VIRUS OR DAMAGE TO THE RECEIVING ELECTRONIC

OAKVILLE	3275 TRAFALGAR RD	ONTARI
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
	1075.00	

PARCEL 4 3RD FLOOR PLAN



TITLEBLOCK SIZE: 610 x 900

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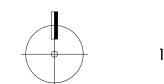
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1. ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN

2. TRANSMISSION OF ANY VIRUS OR DAMAGE TO THE RECEIVING ELECTRONIC

	3275 TRAFALGAR RD	
OAKVILLE		ONTARIO
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	

## PARCEL 4 **4TH FLOOR PLAN**

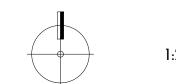


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OAKVILLE	3275 TRAFALGAR RD	ONTARI
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	

## PARCEL 4 **5TH FLOOR PLAN**



OFFICE IN REGARDS TO THE ENVIRONMENTAL CONDITION OF THIS SITE. 807FT2 1B+D1B+D2B 2B 576FT2 636FT2 560FT2 641FT2 641FT2 INFORMATION IN RESPECT TO THEIR PARTICULAR RESPONSIBILITY. 443FT2 1B+D516FT2 611FT2 1B + D611FT2 733FT2 544FT2 2B 2B 639FT2 543FT2 479FT2 1B + D544FT2 2B+D1024FT2 1B+D772FT2 544FT2 1B+D479FT2 544FT2 544FT2 1B+D1B+D479FT2 544FT2 544FT2 436FT2 1B+D1B+D1B+D544FT2 544FT2 543FT2 1065FT2 1B+D665FT2 544FT2 2B+D772FT2 1B+D $^{-1}B+D$ 541FT2 544FT2 1B+D2B 1B+D543FT2 479FT2 590FT2 1B + D2B 544FT2 2B 709FT2 issued for revisions 735FT2 1B+D2B 666FT2 516FT2 443FT2 1B+D2B 1B+D2B 2B GRAZIANI 636FT2 630FT2 636FT2 554FT2 571FT2 3B CORAZZA ARCHITECTS 908FT2 806FT2

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8400 JANE STREET, BUILDING D-SUITE 300 CONCORD, ONTARIO L4K 4L8 T.905.795.2601 F.905.795.2844 WWW.GC-ARCHITECTS.COM

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# TRAFALGAR

OAKVILLE	3275 TRAFALGAR RD	ONTARIO
OAKVILLE		UNTAKI
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	

PARCEL 4 **6TH FLOOR PLAN** 



TITLEBLOCK SIZE: 610 x 900

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1. ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION IS TRANSFERRED. SYSTEM WHEN INFORMATION IS TRANSFERRED. OUTD00R **AMENITY** 235M2 2B 871FT2 543FT2 479FT2 711FT2 1B+D543FT2 OUTD00R 479FT2 1B+D**AMENITY** OUTDOOR 871FT2 479FT2 **AMENITY** issued for revisions 641FT2 460FT2 544FT2 542FT2 460FT2 CORAZZA ARCHITECTS 8400 JANE STREET, BUILDING D-SUITE 300 CONCORD, ONTARIO L4K 4L8 T.905.795.2601 F.905.795.2844 WWW.GC-ARCHITECTS.COM RESIDENTIAL TRAFALGAR

REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. UNLESS OTHERWISE NOTED, NO INVESTIGATION HAS BEEN UNDERTAKEN OR REPORTED ON BY THIS THIS DRAWING IS NOT TO BE SCALED. ALL ARCHITECTURAL SYMBOLS INDICATED

2. TRANSMISSION OF ANY VIRUS OR DAMAGE TO THE RECEIVING ELECTRONIC

OAKVILLE	3275 TRAFALGAR RD	ONTA
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	

# PARCEL 4

7TH FLOOR PLAN





CORAZZA ARCHITECTS

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# TRAFALGAR

OAKVILLE	3275 TRAFALGAR RD	ONTARIO
PROJECT ARCHITECT:	B.G.	
ASSISTANT DESIGNER:	R.L.	
DRAWN BY:	R.L.	
CHECKED BY:		
PLOT DATE:	MAY.17.2023	
JOB#	1975.22	

## PARCEL 4 8TH FLOOR PLAN



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# Appendix B Traffic Data and Calculations

### 3272 & 3301 Trafalgar Road

Environmental Noise Feasibility Study, Oakville, ON

3275 Trafalgar Limited Partnership

SLR Project No.: 241.30627.00000

August 4, 2023



#### Class/Volume Report Graph

Begin: 2020-10-14 12:00 AM Lane: NB Oper: MD Posted: 80 AADT Factor: 1

HI-Star ID: 63329 Street: REG. RD. #3 - NB State: ON City: Halton Region Area: btwn Dundas St & Burnhamthorpe

End: 2020-10-15 12:00 AM Hours: 24:00 Period: 15 Raw Count: 10909 AADT Count: 10909

, and a standard of a sammaman, per		, , , , , , , , , , , , , , , , , , , ,			, , , ,	D. 00u 100				
NC300 - Metres		0.0 to 4.9 5.	0 to 8.4	8.5 to 9.9 10.0 to	12.913.0	to 15.§16.0 to	18.£19.0 to 2	2.4 22.5	>	Total
2020-10-14 [12:00 AM-12:15 AM]	27	13	12	0	0	1	0	0	0	26
2020-10-14 [12:15 AM-12:30 AM]	19	8	10	0	0	0	0	0	0	18
2020-10-14 [12:30 AM-12:45 AM]	10	6	2	0	0	0	0	1	1	10
2020-10-14 [12:45 AM-01:00 AM]	10	7	3	0	0	0	0	0	0	10
	66	34	27	0	0	1	0	1	1	64
2020-10-14 [01:00 AM-01:15 AM]	12	7	5	0	0	0	0	0	0	12
2020-10-14 [01:15 AM-01:30 AM]	17	7	9	0	1	0	0	0	0	17
2020-10-14 [01:30 AM-01:45 AM]	21	12	8	0	0	0	0	1	0	
	13	3	8	0	0	0	0	2	0	21
2020-10-14 [01:45 AM-02:00 AM]										13
	63	29	30	0	1	0	0	3	0	63
		_				_	_	_	_	
2020-10-14 [02:00 AM-02:15 AM]	6	2	4	0	0	0	0	0	0	6
2020-10-14 [02:15 AM-02:30 AM]	10	5	5	0	0	0	0	0	0	10
2020-10-14 [02:30 AM-02:45 AM]	10	4	3	0	0	1	0	0	1	9
2020-10-14 [02:45 AM-03:00 AM]	6	4	2	0	0	0	0	0	0	6
	32	15	14	0	0	1	0	0	1	31
2020-10-14 [03:00 AM-03:15 AM]	4	4	0	0	0	0	0	0	0	4
2020-10-14 [03:15 AM-03:30 AM]	2	0	2	0	0	0	0	0	0	2
2020-10-14 [03:30 AM-03:45 AM]	3	2	1	0	0	0	0	0	0	3
	3	0	3		0	0	0			•
2020-10-14 [03:45 AM-04:00 AM]				0				0	0	3
	12	6	6	0	0	0	0	0	0	12
					_	_	_			
2020-10-14 [04:00 AM-04:15 AM]	4	2	1	0	0	0	0	1	0	4
2020-10-14 [04:15 AM-04:30 AM]	6	5	1	0	0	0	0	0	0	6
2020-10-14 [04:30 AM-04:45 AM]	14	8	5	0	0	0	0	1	0	14
2020-10-14 [04:45 AM-05:00 AM]	12	3	7	0	1	0	0	0	1	12
, , , , , , , , , , , , , , , , , , , ,	36	18	14	0	1	0	0	2	1	36
2020-10-14 [05:00 AM-05:15 AM]	13	7	6	0	0	0	0	0	0	13
		9			0	0	1		0	
2020-10-14 [05:15 AM-05:30 AM]	23		8	3				2		23
2020-10-14 [05:30 AM-05:45 AM]	34	13	19	0	1	0	0	1	0	34
2020-10-14 [05:45 AM-06:00 AM]	39	11	25	1	0	1	0	1	0	39
	109	40	58	4	1	1	1	4	0	109
2020-10-14 [06:00 AM-06:15 AM]	64	27	29	0	2	0	0	5	0	63
2020-10-14 [06:15 AM-06:30 AM]	87	51	32	1	2	0	0	1	0	87
2020-10-14 [06:30 AM-06:45 AM]	116	67	46	1	1	0	0	0	0	115
2020-10-14 [06:45 AM-07:00 AM]	109	59	45	0	0	1	1	2	1	109
	376	204	152	2	5	1	1	8	1	374
				_	-	•	•	-	-	
2020-10-14 [07:00 AM-07:15 AM]	128	61	59	1	1	1	1	2	0	126
	148	80	64	2	1	0	0	1	0	
2020-10-14 [07:15 AM-07:30 AM]										148
2020-10-14 [07:30 AM-07:45 AM]	147	87	48	3	2	4	0	1	0	145
2020-10-14 [07:45 AM-08:00 AM]	165	92	60	3	6	1	1	1	0	164
	588	320	231	9	10	6	2	5	0	583
2020-10-14 [08:00 AM-08:15 AM]	145	77	57	3	5	1	0	0	0	143
2020-10-14 [08:15 AM-08:30 AM]	156	88	54	2	4	1	2	5	0	156
2020-10-14 [08:30 AM-08:45 AM]	150	80	62	4	3	0	0	1	0	150
2020-10-14 [08:45 AM-09:00 AM]	144	75	55	5	5	1	1	0	0	142
	595	320	228	14	17	3	3	6	0	591
						-	-	-	-	
2020-10-14 [09:00 AM-09:15 AM]	132	70	55	1	4	0	0	0	0	130
								1		
2020-10-14 [09:15 AM-09:30 AM]	111	53	53	2	1	0	0		0	110
2020-10-14 [09:30 AM-09:45 AM]	119	64	45	1	3	0	2	4	0	119
2020-10-14 [09:45 AM-10:00 AM]	126	69	46	1	6	1	2	0	0	125
	488	256	199	5	14	1	4	5	0	484
2020-10-14 [10:00 AM-10:15 AM]	112	46	49	5	5	1	0	5	0	111
2020-10-14 [10:15 AM-10:30 AM]	117	65	45	1	4	0	0	2	0	117
2020-10-14 [10:30 AM-10:45 AM]	127	68	43	8	4	0	1	2	1	127
2020-10-14 [10:45 AM-11:00 AM]	147	74	52	11	3	1	3	0	0	144
2020 10-14 [10.40 AW-11.00 AW]	503	253	189	25	16	2	4	9	1	499
	505	233	109	23	10	-	7	J	'	700
0000 40 44 644 00 444	405	20	40	-	_	4	4	^	^	404 11111111111111111111111111111111111
2020-10-14 [11:00 AM-11:15 AM]	125	66	43	5	6	1	1	2	0	124
2020-10-14 [11:15 AM-11:30 AM]	143	83	49	3	3	1	1	3	0	143
2020-10-14 [11:30 AM-11:45 AM]	171	90	64	3	5	3	1	4	0	170
2020-10-14 [11:45 AM-12:00 PM]	146	63	70	2	5	0	1	3	1	145
	585	302	226	13	19	5	4	12	1	582
2020-10-14 [12:00 PM-12:15 PM]	174	85	75	4	4	2	1	2	1	174
-										

2000 40 44 442 45 75 15	1:20 DM	444	70	00	4	4	•	4	2	•	4.43
2020-10-14 [12:15 PM-12 2020-10-14 [12:30 PM-12	-	144 162	70 93	62 62	4	4 1	0 1	1 3	2	0 0	143
2020-10-14 [12:45 PM-01		165	77	69	8	6	0	1	2	1	164
•	•	645	325	268	16	15	3	6	8	2	643
					_						
2020-10-14 [01:00 PM-01		183	94	70	7	3	2	2	3	0	181
2020-10-14 [01:15 PM-01		149	78	62	1	4	1	0	3	0	149
2020-10-14 [01:30 PM-01	-	149 184	88 104	49 66	1	3 1	1 2	1 2	1	1 0	145
2020-10-14 [01:45 PM-02		665	364	247	12	11	6	5	10	1	181
		000	004	2-11	1.2		Ü	· ·	10		000
2020-10-14 [02:00 PM-02	2:15 PM]	173	96	66	3	3	1	1	2	0	172
2020-10-14 [02:15 PM-02	2:30 PM]	169	77	76	3	4	2	4	3	0	169
2020-10-14 [02:30 PM-02		205	102	83	6	6	1	0	3	2	203
2020-10-14 [02:45 PM-03	3:00 PM]	209	114	87	4	4	0	0	0	0	209
		756	389	312	16	17	4	5	8	2	753
2020-10-14 [03:00 PM-03	:15 PMI	239	117	102	4	7	0	3	3	1	237
2020-10-14 [03:15 PM-03	-	281	159	102	3	8	0	1	5	1	279
2020-10-14 [03:30 PM-03		281	138	115	7	8	2	2	6	0	278
2020-10-14 [03:45 PM-04	-	261	150	91	5	7	2	2	2	0	259
		1062	564	410	19	30	4	8	16	2	1053
2020-10-14 [04:00 PM-04	-	297	166	108	4	7	0	3	4	1	293
2020-10-14 [04:15 PM-04	-	260	138	109	0	7	4	1	0	0	259
2020-10-14 [04:30 PM-04	-	282	155	111	2	4	2	0	2	1	277
2020-10-14 [04:45 PM-05	:00 PMJ	239 1078	130 589	99 427	1 7	4 22	1 7	0 4	2 8	0 2	237
		1076	509	421	,	22	,	4	0	2	1000
2020-10-14 [05:00 PM-05	i:15 PMI	269	142	118	1	2	1	0	1	0	265
2020-10-14 [05:15 PM-05		284	166	107	1	3	2	1	1	0	281
2020-10-14 [05:30 PM-05	-	263	148	107	1	1	0	1	2	0	260
2020-10-14 [05:45 PM-06		208	134	68	1	0	1	0	3	0	207
		1024	590	400	4	6	4	2	7	0	1013
2020-10-14 [06:00 PM-06		218	118	93	1	3	1	0	0	0	216
2020-10-14 [06:15 PM-06		194 177	100 103	88 70	2	0 1	0 2	2 0	1 0	0	193
2020-10-14 [06:30 PM-06 2020-10-14 [06:45 PM-07		147	83	59	1	0	0	1	0	0	176
2020-10-14 [00.43 F W-07	.00 F WIJ	736	404	310	4	4	3	3	1	0	729
				0.0	•	•	· ·	· ·	•	ŭ	. 20
2020-10-14 [07:00 PM-07	':15 PM]	143	78	56	2	4	0	0	1	1	142
2020-10-14 [07:15 PM-07	':30 PM]	137	93	39	1	0	0	1	1	0	135
2020-10-14 [07:30 PM-07	':45 PM]	123	65	55	0	0	0	1	0	0	121
2020-10-14 [07:45 PM-08	3:00 PM]	128	80	45	1	0	0	0	0	0	126
		531	316	195	4	4	0	2	2	1	524
2020-10-14 [08:00 PM-08	:15 PMI	107	65	39	0	1	0	0	1	0	106
2020-10-14 [08:15 PM-08		96	54	39	0	0	0	0	1	0	94
2020-10-14 [08:30 PM-08	-	96	58	35	1	0	0	0	1	1	96
2020-10-14 [08:45 PM-09	-	84	43	38	0	0	0	1	0	0	82
		383	220	151	1	1	0	1	3	1	378
2020-10-14 [09:00 PM-09		82	51	30	0	0	1	0	0	0	82
2020-10-14 [09:15 PM-09	-	61 64	36 34	24 23	0 2	0 2	0	0	0	0 1	60
2020-10-14 [09:30 PM-09 2020-10-14 [09:45 PM-10	-	65	42	23	0	0	0	0	0	0	62           65
2020-10-14 [09.43 FWF10		272	163	100	2	2	1	0	0	1	269
			.00		-	-			ŭ	·	200
2020-10-14 [10:00 PM-10	):15 PM]	44	32	10	1	1	0	0	0	0	44
2020-10-14 [10:15 PM-10	:30 PM]	47	26	19	0	0	0	0	1	1	47
2020-10-14 [10:30 PM-10	-	37	24	13	0	0	0	0	0	0	37
2020-10-14 [10:45 PM-11	:00 PM]	23	11	9	0	0	0	1	2	0	23
		151	93	51	1	1	0	1	3	1	151
2020-10-14 [11:00 PM-11	:15 PMI	53	30	21	0	0	1	0	0	0	52
2020-10-14 [11:15 PM-11	-	46	31	14	0	0	0	0	0	0	45
2020-10-14 [11:30 PM-11		27	16	10	0	0	0	0	1	0	27
2020-10-14 [11:45 PM-12	-	27	17	10	0	0	0	0	0	0	27
-	-	153	94	55	0	0	1	0	1	0	151
Daily Totals:		10909	5908	4300	158	197	54	56	122	19	10814
Total Counted:	10909	40000	F000	4000	450	407		50	100	10	40044
Total Unclassified:	10814	10909	5908	4300	158	197	54	56	122	19	10814
Total Unclassified:	95										
Report Percentages:			54.63%	39.76%	1.46%	1.82%	0.50%	0.52%	1.13%	0.18%	
,											
Peak Time: (AM):	2020-10-14 [11		-	eak Count:	171						
Peak Time: (PM):	2020-10-14 [04	:00 PM-04:15 P	мј Р	eak Count:	297						

#### Class/Volume Report Graph

HI-Star ID: 6332F Street: REG. RD. #3 - SB State: ON City: Halton Region Area: btwn Dundas St & Burnhamthorpe

Begin: 2020-10-14 12:00 AM Lane: SB Oper: MD Posted: 80 AADT Factor: 1 End: 2020-10-15 12:00 AM Hours: 24:00 Period: 15 Raw Count: 10299 AADT Count: 10299

NC300 - Metres	•	0.0 to 4.9	50 to 84 8	.5 to 9.9 10.0	to 12 913 0	to 15 (16.0	to 18 (19 0	to 224	22.5 >	Total
2020-10-14 [12:00 AM-12:15 AM]	14	5	7	1	0	0	0	1	0	14
2020-10-14 [12:15 AM-12:30 AM]	7	3	3	0	0	1	0	0	0	7
2020-10-14 [12:30 AM-12:45 AM]	7	5	2	0	0	0	0	0	0	7
2020-10-14 [12:45 AM-01:00 AM]	11	3	5	0	1	2	0	0	0	11
	39	16	17	1	1	3	0	1	0	39
2020-10-14 [01:00 AM-01:15 AM]	5	3	0	0	0	0	0	2	0	5
2020-10-14 [01:15 AM-01:30 AM]	10	4	3	0	0	1	0	1	1	10
2020-10-14 [01:30 AM-01:45 AM]	7	4	3	0	0	0	0	0	0	7
2020-10-14 [01:45 AM-02:00 AM]	4	1	3	0	0	0	0	0	0	4
	26	12	9	0	0	1	0	3	1	26
2020-10-14 [02:00 AM-02:15 AM]	9	4	3	0	0	0	0	1	0	8
2020-10-14 [02:15 AM-02:30 AM]	8	2	4	0	1	0	0	1	0	8
2020-10-14 [02:30 AM-02:45 AM]	4	1	3	0	0	0	0	0	0	4
2020-10-14 [02:45 AM-03:00 AM]	4	1	3	0	0	0	0	0	0	4
	25	8	13	0	1	0	0	2	0	24
2020-10-14 [03:00 AM-03:15 AM]	2	1	1	0	0	0	0	0	0	2
	2	1	1	0	0	0	0	0	0	2
2020-10-14 [03:15 AM-03:30 AM]										
2020-10-14 [03:30 AM-03:45 AM]	8	2	5	0	0	0	0	1	0	8
2020-10-14 [03:45 AM-04:00 AM]	2	0	2	0	0	0	0	0	0	2
	14	4	9	0	0	0	0	1	0	14
2020-10-14 [04:00 AM-04:15 AM]	4	2	1	0	0	0	1	0	0	4
2020-10-14 [04:15 AM-04:30 AM]	8	5	3	0	0	0	0	0	0	8
2020-10-14 [04:30 AM-04:45 AM]	16	6	10	0	0	0	0	0	0	16
2020-10-14 [04:45 AM-05:00 AM]	16	5	8	0	1	0	0	2	0	16
2020 10 11 [0 11 0 7 11 1 0 0 10 7 11 1]	44	18	22	0	1	0	1	2	0	44
2020-10-14 [05:00 AM-05:15 AM]	29	13	14	1	0	0	1	0	0	29
	28	8	19	0	1	0	0	0	0	
2020-10-14 [05:15 AM-05:30 AM]	67	26	37	1	1	0	0	1	0	28
2020-10-14 [05:30 AM-05:45 AM]										66
2020-10-14 [05:45 AM-06:00 AM]	55	24	30	0	0	0	0	1	0	55
	179	71	100	2	2	0	1	2	0	178
2020-10-14 [06:00 AM-06:15 AM]	60	30	27	1	0	0	0	2	0	60
2020-10-14 [06:15 AM-06:30 AM]	92	37	50	0	1	1	0	3	0	92
2020-10-14 [06:30 AM-06:45 AM]	131	60	66	1	0	0	1	3	0	131
2020-10-14 [06:45 AM-07:00 AM]	184	100	77	2	3	0	0	1	0	183
,	467	227	220	4	4	1	1	9	0	466
2020-10-14 [07:00 AM-07:15 AM]	132	64	57	2	1	5	1	2	0	132
2020-10-14 [07:00 AM-07:13 AM]	204	96	86	3	8	4	2	5	0	
		83	85	4	10	3	1	1	0	204
2020-10-14 [07:30 AM-07:45 AM]	187	98	87	1	7	3	1	0	0	187
2020-10-14 [07:45 AM-08:00 AM]	197 720	341	315	10	26	15	5	8	0	197
2020-10-14 [08:00 AM-08:15 AM]	187	100	73	1	7	3	0	1	2	187
2020-10-14 [08:15 AM-08:30 AM]	163	70	79	4	2	2	0	3	2	162
2020-10-14 [08:30 AM-08:45 AM]	221	117	87	2	6	2	1	4	2	221
2020-10-14 [08:45 AM-09:00 AM]	190	98	76	5	6	1	0	0	3	189
	761	385	315	12	21	8	1	8	9	759
2020-10-14 [09:00 AM-09:15 AM]	173	80	88	2	2	0	1	0	0	173
2020-10-14 [09:15 AM-09:30 AM]	145	69	61	2	1	1	3	6	2	145
2020-10-14 [09:30 AM-09:45 AM]	145	68	68	3	3	1	1	1	0	145
2020-10-14 [09:45 AM-10:00 AM]	178	86	78	3	4	0	0	3	3	177
2020-10-14 [05.43 AW-10.00 AW]	641	303	295	10	10	2	5	10	5	640
						,				405
2020-10-14 [10:00 AM-10:15 AM]	125	55 50	58	3	3	1	1	4	0	125
2020-10-14 [10:15 AM-10:30 AM]	101	50	44	1	4	0	0	1	1	101
2020-10-14 [10:30 AM-10:45 AM]	152	84	58	2	6	0	0	0	1	151
2020-10-14 [10:45 AM-11:00 AM]	171 549	78 267	74 234	3 9	7 20	2	0 1	4 9	3 5	171
	J <del>4</del> 9	201	234	ð	20	3	1	J	3	UTU
2020-10-14 [11:00 AM-11:15 AM]	137	64	59	4	5	0	0	3	2	137
2020-10-14 [11:15 AM-11:30 AM]	159	75	70	4	3	1	1	4	1	159
2020-10-14 [11:30 AM-11:45 AM]	148	76	64	4	1	0	0	2	1	148
2020-10-14 [11:45 AM-12:00 PM]	139	55	74	4	3	0	0	2	1	139
	583	270	267	16	12	1	1	11	5	583
2020-10-14 [12:00 PM-12:15 PM]	121	58	47	7	1	0	2	3	2	120

2020-10-14 [12:15 PM-12:30 PM]	139	68	62	0	5	0	0	3	1	139
2020-10-14 [12:30 PM-12:45 PM]	163	79	66	6	7	1	1	2	1	163
2020-10-14 [12:45 PM-01:00 PM]	139	75	52	3	5	0	2	2	0	139
2020 10 11 [12:101 01:001]	562	280	227	16	18	1	5	10	4	561
	002	200				•	Ü		•	331
2020-10-14 [01:00 PM-01:15 PM]	162	78	69	6	4	1	0	4	0	162
2020-10-14 [01:00 PM-01:13 PM]	146	75	54	4	6	2	1	2	1	145
	165	82	71	4	4	2	0	1	0	
2020-10-14 [01:30 PM-01:45 PM]										164
2020-10-14 [01:45 PM-02:00 PM]	146	80	55	3	3	1	0	4	0	146
	619	315	249	17	17	6	1	11	1	617
2020-10-14 [02:00 PM-02:15 PM]	149	71	69	0	3	1	0	2	2	148
2020-10-14 [02:15 PM-02:30 PM]	174	98	68	1	4	1	0	2	0	174
2020-10-14 [02:30 PM-02:45 PM]	173	92	75	1	0	0	1	4	0	173
2020-10-14 [02:45 PM-03:00 PM]	214	102	102	0	5	0	2	3	0	214
	710	363	314	2	12	2	3	11	2	709
2020-10-14 [03:00 PM-03:15 PM]	166	83	72	3	3	2	1	2	0	166
2020-10-14 [03:15 PM-03:30 PM]	162	89	65	1	2	1	1	2	1	162
	191	100	81	3	3	1	1	0	2	
2020-10-14 [03:30 PM-03:45 PM]						0				191
2020-10-14 [03:45 PM-04:00 PM]	219	121	91	1	3		0	2	1	219
	738	393	309	8	11	4	3	6	4	738
2020-10-14 [04:00 PM-04:15 PM]	172	99	64	1	5	1	0	1	1	172
2020-10-14 [04:15 PM-04:30 PM]	189	101	80	1	2	0	0	2	3	189
2020-10-14 [04:30 PM-04:45 PM]	212	100	105	2	1	1	2	1	0	212
2020-10-14 [04:45 PM-05:00 PM]	221	120	97	0	2	1	1	0	0	221
	794	420	346	4	10	3	3	4	4	794
				•		-	-		•	-
2020-10-14 [05:00 PM-05:15 PM]	200	115	79	3	0	1	0	1	1	200
2020-10-14 [05:00 PM-05:15 PM] 2020-10-14 [05:15 PM-05:30 PM]	215	106	100	2	3	1	0	1	0	213
				0	1	0	0	1	0	
2020-10-14 [05:30 PM-05:45 PM]	197	100	95							197
2020-10-14 [05:45 PM-06:00 PM]	201	111	87	0	0	1	0	1	1	201
	813	432	361	5	4	3	0	4	2	811
2020-10-14 [06:00 PM-06:15 PM]	205	106	95	0	0	0	1	2	1	205
2020-10-14 [06:15 PM-06:30 PM]	195	118	71	1	1	0	1	2	0	194
2020-10-14 [06:30 PM-06:45 PM]	186	101	82	1	0	1	0	0	1	186
2020-10-14 [06:45 PM-07:00 PM]	142	80	60	0	0	0	1	0	1	142
	728	405	308	2	1	1	3	4	3	727
2020-10-14 [07:00 PM-07:15 PM]	139	76	60	1	1	0	0	1	0	139
2020-10-14 [07:15 PM-07:30 PM]	156	99	52	1	1	1	0	2	0	156
	123	73	45	1	0	0	0	4	0	
2020-10-14 [07:30 PM-07:45 PM]										123
2020-10-14 [07:45 PM-08:00 PM]	98	64	33	0	0	0	0	1	0	98
	516	312	190	3	2	1	0	8	0	516
				_	_		_	_	_	
2020-10-14 [08:00 PM-08:15 PM]	79	43	34	2	0	0	0	0	0	79
2020-10-14 [08:15 PM-08:30 PM]	102	53	45	0	0	1	0	2	1	102
							0	0	1	
2020-10-14 [08:30 PM-08:45 PM]	74	39	34	0	0	0	U	0		
		39 42	34 28	0	0	0 1	0	0	0	74
2020-10-14 [08:30 PM-08:45 PM]	74								0 2	
2020-10-14 [08:30 PM-08:45 PM]	74 71	42	28	0	0	1	0	0		74                71
2020-10-14 [08:30 PM-08:45 PM] 2020-10-14 [08:45 PM-09:00 PM]	74 71	42	28	0	0	1	0	0		74                71              326
2020-10-14 [08:30 PM-08:45 PM] 2020-10-14 [08:45 PM-09:00 PM] 2020-10-14 [09:00 PM-09:15 PM]	74 71 326 57	42 177 38	28 141 18	0 2 1	0 0	1 2 0	0 0	0 2 0	2	74
2020-10-14 [08:30 PM-08:45 PM] 2020-10-14 [08:45 PM-09:00 PM] 2020-10-14 [09:00 PM-09:15 PM] 2020-10-14 [09:15 PM-09:30 PM]	74 71 326 57 55	42 177 38 27	28 141 18 24	0 2 1 0	0 0 0 1	1 2 0 1	0 0 0	0 2 0 1	2 0 1	74
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2020-10-14 [08:30 PM-08:45 PM] 2020-10-14 [08:45 PM-09:00 PM] 2020-10-14 [09:00 PM-09:15 PM] 2020-10-14 [09:15 PM-09:30 PM] 2020-10-14 [09:30 PM-09:45 PM]	74 71 326 57 55 40	42 177 38 27 25	28 141 18 24 14	0 2 1 0 0	0 0 0 1 0	1 2 0 1 0	0 0 0 0	0 2 0 1 1	2 0 1 0	74
2020-10-14 [08:30 PM-08:45 PM] 2020-10-14 [08:45 PM-09:00 PM]  2020-10-14 [09:00 PM-09:15 PM] 2020-10-14 [09:15 PM-09:30 PM] 2020-10-14 [09:30 PM-09:45 PM] 2020-10-14 [09:45 PM-10:00 PM]	74 71 326 57 55 40 43 195	42 177 38 27 25 26 116	28 141 18 24 14 16 72	0 2 1 0 0 0	0 0 1 0 1 2	1 2 0 1 0 0	0 0 0 0 0	0 2 0 1 1 0 2	2 0 1 0 0	74
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2020-10-14 [08:30 PM-08:45 PM] 2020-10-14 [08:45 PM-09:00 PM]  2020-10-14 [09:00 PM-09:15 PM] 2020-10-14 [09:15 PM-09:30 PM] 2020-10-14 [09:30 PM-09:45 PM] 2020-10-14 [09:45 PM-10:00 PM]  2020-10-14 [10:00 PM-10:15 PM] 2020-10-14 [10:15 PM-10:30 PM]	74 71 326 57 55 40 43 195 37 38 43	42 177 38 27 25 26 116 26 21	28 141 18 24 14 16 72 9 15 25	0 2 1 0 0 0 1	0 0 1 0 1 2 0 0	1 2 0 1 0 0 1 1	0 0 0 0 0 0 0	0 2 0 1 1 0 2 1 0 0	2 0 1 0 0 1 1 1 1 1 1 1	74
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2020-10-14 [08:30 PM-08:45 PM] 2020-10-14 [08:45 PM-09:00 PM]  2020-10-14 [09:00 PM-09:15 PM] 2020-10-14 [09:30 PM-09:35 PM] 2020-10-14 [09:30 PM-09:45 PM] 2020-10-14 [09:30 PM-09:45 PM] 2020-10-14 [09:45 PM-10:00 PM]  2020-10-14 [10:00 PM-10:15 PM] 2020-10-14 [10:15 PM-10:30 PM] 2020-10-14 [10:30 PM-10:45 PM] 2020-10-14 [10:30 PM-11:00 PM]  2020-10-14 [11:30 PM-11:00 PM]  2020-10-14 [11:30 PM-11:00 PM] 2020-10-14 [11:45 PM-12:00 AM]  Daily Totals:  Total Counted: 10299 Total Classified: 10284 Total Unclassified: 15  Report Percentages:  Peak Time: (AM): 2020-10-14	74 71 326 57 55 40 43 195 37 38 43 37 155 27 26 24 18 95 10299	42 1777 38 27 25 26 116 26 21 15 24 86 15 16 10 11 52 5273	28 141 18 24 14 16 72 9 15 25 12 61 12 10 12 6 40 4434 4434	0 2 1 0 0 0 0 1 1 0 0 0 0 0 1 25 1 25 1	0 0 1 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 0 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 60 60	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 1 1 1 0 0 0 1 2 0 0 1 2 1 2 1 1 2 1 1 1 1	2 0 1 0 0 1 1 1 1 1 0 3 3 0 0 0 0 0 0 0 0	74

From: Krusto, Matt
To: Jason Dorssers

Cc: <u>Aaron Haniff</u>; <u>Khan, Ayesha</u>

**Subject:** RE: 3275 & 3301 Trafalgar Road, Oakville - Ultimate Traffic Data Request

**Date:** August 29, 2022 2:39:33 PM **Attachments:** image001.png

image002.png image003.png image004.png

Hi Jason,

Thanks for the email.

- -Future ultimate volumes and lane assumptions for <u>Trafalgar Road</u> must be 55,000 AADT, 6 through lanes and 60 km/h posted speed.
- -For the **truck** <u>percentages</u>, <u>existing</u> percentages must be used. These can be requested from our Road Operations group at <u>trafficdatarequests@halton.ca</u>

Hope this helps.

Matt

#### **Matt Krusto**

Supervisor, Transportation Development Review Infrastructure Planning & Policy Public Works
Halton Region
905-825-6000, ext. 7225 | 1-866-442-5866



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From: Jason Dorssers < jdorssers@slrconsulting.com>

Sent: August 29, 2022 1:30 PM

**To:** Krusto, Matt <Matt.Krusto@halton.ca> **Cc:** Aaron Haniff <ahaniff@slrconsulting.com>

Subject: 3275 & 3301 Trafalgar Road, Oakville - Ultimate Traffic Data Request

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you are unsure or need assistance please contact the IT Service Desk.

Good afternoon Matt,

My client is looking to develop a set of properties at 3275 & 3301 Trafalgar Road, Oakville.

I require ultimate traffic data for Trafalgar Road for the purposes of an environmental noise study.

#### Thank you kindly, Jason



#### Jason Dorssers, B.Eng.

#### **Acoustics Consultant**

- D +1 226 706 8080 Ext. 229
- **o** <u>+1 226 706 8080</u>
- C 519-362-0958
- E jdorssers@slrconsulting.com

SLR Consulting (Canada) Ltd 100 Stone Road West, Suite 201, Guelph, ON N1G 5L3





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#### ORNAMENT - Sound Power Emissions & Source Heights

Ontario Road Noise Analysis Method for Environment and Transportation

Road Segment ID	Roadway Name	Link Description	Speed (kph)	Period (h)	Total Traffic Volumes	Auto %	Med %	Hvy %	Auto	Med	Heavy	Road Gradient (%)	Cadna/A Ground Absorpti on G	PWL (dBA)	Source Height, s (m)
trafE_avg	Trafalgar Road - Eastbound	Daytime Impacts	60	16	24750	94.4%	2.9%	2.7%	23364	718	668	0	0.00	85.5	1.3
trafE_avg	Trafalgar Road - Eastbound	Nighttime Impacts	60	8	2750	94.4%	2.9%	2.7%	2596	80	74	0	0.00	79.0	1.3
trafW_avg	Trafalgar Road - Westbound	Daytime Impacts	60	16	24750	94.4%	3.3%	2.3%	23364	817	569	0	0.00	85.3	1.2
trafW_avg	Trafalgar Road - Westbound	Nighttime Impacts	60	8	2750	94.4%	3.3%	2.3%	2596	91	63	0	0.00	78.8	1.2



3275 TRAFALGAR LIMITED PARTNERSHIP

3272 & 3301 TRAFALGAR ROAD, OAKVILLE, ON

STAMSON, CADNA/A VALIDATION

True North

Scale: 1: 750 METRES

Date: June 2023 Rev 0.0 Figure No.

**B1** 

Project No. 241.30627.00000



STAMSON 5.0 NORMAL REPORT Date: 26-06-2023 13:24:15

MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: trafalg.te Time Period: 16 hours

Description: 1st Floor Receptor - Trafalgar

Road data, segment # 1: Trafalgar NB

Car traffic volume : 23364 veh/TimePeriod Medium truck volume: 718 veh/TimePeriod Heavy truck volume : 668 veh/TimePeriod Posted speed limit : 60 km/h

Road gradient : 0 %

Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: Trafalgar NB

Angle1 Angle2 : -90.00 deg 90.00 deg Wood depth : 0 (No woods : 0 (No woods.)

No of house rows :

Surface 2 (Reflective ground surface)

Receiver source distance : 25.80 m

Receiver height : 1.50 m

: 1 (Flat/gentle slope; no barrier) Topography

Reference angle : 0.00

Road data, segment # 2: Trafalgar SB \_\_\_\_\_

Car traffic volume : 23364 veh/TimePeriod Medium truck volume: 718 veh/TimePeriod Heavy truck volume : 668 veh/TimePeriod

Posted speed limit : 60 km/h

Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 2: Trafalgar SB

\_\_\_\_\_

Angle1 Angle2 : -90.00 deg 90.00 deg Wood depth : 0 (No woods : 0 (No woods.)

No of house rows : Surface

(Reflective ground surface)

Receiver source distance : 34.45 m Receiver height : 1.50 m

Topography : 1 (Flat/gentle slope; no barrier)

Reference angle : 0.00

Results segment # 1: Trafalgar NB

-----

Source height = 1.28 m

ROAD (0.00 + 68.11 + 0.00) = 68.11 dBA

Angle1 Angle2 Alpha RefLeq P.Adj D.Adj F.Adj W.Adj H.Adj B.Adj SubLeq

-90 90 0.00 70.47 0.00 -2.36 0.00 0.00 0.00 0.00 68.11

Segment Leq : 68.11 dBA

♠

Results segment # 2: Trafalgar SB

Source height = 1.28 m

ROAD (0.00 + 66.86 + 0.00) = 66.86 dBA

Angle1 Angle2 Alpha RefLeq P.Adj D.Adj F.Adj W.Adj H.Adj B.Adj SubLeq

-90 90 0.00 70.47 0.00 -3.61 0.00 0.00 0.00 0.00 66.86

Segment Leq: 66.86 dBA

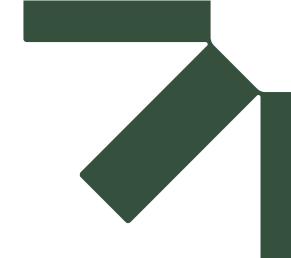
Total Leq All Segments: 70.54 dBA

♠

TOTAL Leg FROM ALL SOURCES: 70.54

♠

♠



# **Appendix C** Warning Clause Text

### 3272 & 3301 Trafalgar Road

Environmental Noise Feasibility Study, Oakville, ON

3275 Trafalgar Limited Partnership

SLR Project No.: 241.30627.00000

August 4, 2023



June 15, 2023 SLR Project No.: 241.20122.00000

#### **Appendix C** Warning Clause Text

#### **Type C Warning Clause**

"This dwelling unit has been designed with the provision for adding central air conditioning at the occupant's discretion. Installation of central air conditioning by the occupant in low and medium density developments will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment."

#### **Type D Warning Clause**

"This dwelling unit has been supplied with a central air conditioning system which will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment."





# **Appendix D BPN-56 Calculations**

### 3272 & 3301 Trafalgar Road

Environmental Noise Feasibility Study, Oakville, ON

3275 Trafalgar Limited Partnership

SLR Project No.: 241.30627.00000

August 4, 2023



### BPN 56 Calculation Procedure - Required Glazing STC Rating (Fixed Veneer) BEDROOMS 3275 Trafalgar Road, Oakville

		sound	Levels		ouiii / Faç	ade Inputs		1		Source Inp	uto	I	veneer - C	omponent 1	Glazing - Component 2	<del></del>
		Façad	Requir	I IG	Glazing as	Exposed	Exposed	Room		Incident	Angle		Assumed			F
Receptor ID	Source Description	Soun	d Indo	or   %	% of Wall	Wall Height	Wall Length	Depth	Room Absorption:	Sound	Correction	Spectrum type:	Veneer	Component Category:	Component Category:	
		Level	Leve		Area	(m)	(m)	(m)		Angle:	Factor:		STC			
		(dBA	) (dBA	A)						(deg)			(STC)			
YTIME Building AB - 2 - North	Roadways, Daytime	49	45		50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building AB - 2 - East	Roadways, Daytime	66	45		50% 50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building AB - 2 - South	Roadways, Daytime	71			50%	2.9	3.0	3.0		0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building AB - 2 - West	Roadways, Daytime	67 48			50% 50%	2.9	3.0	3.0	Intermediate Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building AB - 4 - North Building AB - 4 - East	Roadways, Daytime Roadways, Daytime	66	45	F	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft  D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-
Building AB - 4 - South	Roadways, Daytime	70			50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building AB - 4 - West	Roadways, Daytime	67			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building AB - 6 - North	Roadways, Daytime	48			50% 50%	2.9	3.0	3.0		30 - 90 30 - 90	1	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-+
Building AB - 6 - East Building AB - 6 - South	Roadways, Daytime Roadways, Daytime	70			50%	2.9	3.0	3.0		30 - 90	1	D. mixed road traffic, distant aircraft  D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-+
Building AB - 6 - West	Roadways, Daytime	66			50%	2.9	3.0	3.0	Intermediate	30 - 90	1	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-
Building A - 27 - North	Roadways, Daytime	48	45		50%	2.9	3.0	3.0	Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building A - 27 - East	Roadways, Daytime	65			50%	2.9	3.0	3.0	Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Building A - 27 - South Building A - 27 - West	Roadways, Daytime Roadways, Daytime	69 66			50% 50%	2.9	3.0	3.0	Intermediate Intermediate	60 - 90 60 - 90	3	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-+
Building B - 30 - North	Roadways, Daytime	48			50%	2.9	3.0		Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling  D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	-+
Building B - 30 - East	Roadways, Daytime	65			50%	2.9	3.0		Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
uilding B - 30 - South	Roadways, Daytime	69			50%	2.9			Intermediate	60 - 90	-	D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
uilding B - 30 - West	Roadways, Daytime	66	45	⊦	50%	2.9	3.0	3.0	Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
TH - North TH - East	Roadways, Daytime Roadways, Daytime	49 60			50% 50%	2.9 2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-+
TH - East TH - South	Roadways, Daytime Roadways, Daytime	60	45	—	50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft  D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling  D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-+
TH - West	Roadways, Daytime	48	45		50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding C - 2 - North	Roadways, Daytime	40	45		50%	2.9	3.0			0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
uilding C - 2 - East	Roadways, Daytime	55 58			50% 50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding C - 2 - South ilding C - 2 - West	Roadways, Daytime Roadways, Daytime	55			50%	2.9		3.0	Intermediate Intermediate	0 - 90		D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
ilding C - 6 - North	Roadways, Daytime	41			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	_
uilding C - 6 - East	Roadways, Daytime	54	45		50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding C - 6 - South	Roadways, Daytime	57	45		50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding C - 6 - West	Roadways, Daytime	55 43			50% 50%	2.9	3.0			0 - 90	0	D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding C - 14 - North ilding C - 14 - East	Roadways, Daytime Roadways, Daytime	43 54			50%	2.9	3.0	3.0		0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
ding C - 14 - South	Roadways, Daytime	57			50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	
ilding C - 14 - West	Roadways, Daytime	54			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding D - 2 - North	Roadways, Daytime	39			50%	2.9	3.0	3.0	Intermediate	0 - 90		D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
uilding D - 2 - East	Roadways, Daytime	55	45 45		50% 50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding D - 2 - South	Roadways, Daytime Roadways, Daytime	55 50	45		50%	2.9	3.0	3.0	Intermediate Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft  D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
Iding D - 6 - North	Roadways, Daytime	38			50%	2.9			Intermediate	0 - 90	-	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
uilding D - 6 - East	Roadways, Daytime	54			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding D - 6 - South	Roadways, Daytime	54			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
lding D - 6 - West	Roadways, Daytime	50			50%	2.9		3.0		0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding D - 14 - North ilding D - 14 - East	Roadways, Daytime Roadways, Daytime	38 52			50% 50%	2.9	3.0	3.0	Intermediate Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
ding D - 14 - Cast	Roadways, Daytime	55			50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	
ding D - 14 - West	Roadways, Daytime	51	45		50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding EF - 2 - North	Roadways, Daytime	51			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding EF - 2 - East	Roadways, Daytime	66			50% 50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Iding EF - 2 - South Iding EF - 2 - West	Roadways, Daytime Roadways, Daytime	70 66			50%	2.9 2.9	3.0	3.0	Intermediate Intermediate	0 - 90 0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
lding EF - 6 - North	Roadways, Daytime	51	45		50%	2.9	3.0	3.0		30 - 90		D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding EF - 6 - East	Roadways, Daytime	66	45		50%	2.9	3.0	3.0		30 - 90	1	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding EF - 6 - South	Roadways, Daytime	69			50%	2.9			Intermediate	30 - 90	1	D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding EF - 6 - West	Roadways, Daytime	65 51			50%	2.9	3.0	3.0	Intermediate Intermediate	30 - 90 60 - 90	3	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding E - 33 - North ilding E - 33 - East	Roadways, Daytime Roadways, Daytime	65			50%	2.9	3.0		Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft  D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
ding E - 33 - South	Roadways, Daytime	69	45		50%	2.9	3.0	3.0	Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
lding E - 33 - West	Roadways, Daytime	65	45		50%	2.9	3.0	3.0	Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding F - 28 - North	Roadways, Daytime	51			50%	2.9	3.0	3.0	Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Iding F - 28 - East ding F - 28 - South	Roadways, Daytime Roadways, Daytime	61			50% 50%	2.9 2.9	3.0		Intermediate	60 - 90 60 - 90	3	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
ding F - 28 - South	Roadways, Daytime Roadways, Daytime	64			50%	2.9	3.0		Intermediate	60 - 90	3	D. mixed road traffic, distant aircraft  D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling  D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
Church - North	Roadways, Daytime	46	45		50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Church - East	Roadways, Daytime	51			50%	2.9	3.0	3.0		0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Church - South	Roadways, Daytime	60			50%	2.9			Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Church - West ling GH - 2 - North	Roadways, Daytime Roadways, Daytime	43	45 45	—	50% 50%	2.9	3.0	3.0	Intermediate Intermediate	0 - 90 0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
ding GH - 2 - East	Roadways, Daytime	49			50%	2.9	3.0	3.0		0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling  D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	
ling GH - 2 - South	Roadways, Daytime	59			50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding GH - 2 - West	Roadways, Daytime	58			50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding GH - 6 - North	Roadways, Daytime	42			50%	2.9	3.0		Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
lding GH - 6 - East ding GH - 6 - South	Roadways, Daytime Roadways, Daytime	48 58			50% 50%	2.9	3.0	3.0	Intermediate Intermediate	0 - 90 0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
ding GH - 6 - South	Roadways, Daytime Roadways, Daytime	58			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft  D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
lding G - 15 - North	Roadways, Daytime	42	45		50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ilding G - 15 - East	Roadways, Daytime	51	45		50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
ding G - 15 - South	Roadways, Daytime	57			50%	2.9	3.0	3.0		0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
Iding G - 15 - West	Roadways, Daytime	56 38			50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	45	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	
lding H - 15 - North ilding H - 15 - East	Roadways, Daytime Roadways, Daytime	38 50			50%	2.9	3.0		Intermediate Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft D. mixed road traffic, distant aircraft	45 45	D. sealed thick window, or exterior wall, or roof/ceiling D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	
Iding H - 15 - East	Roadways, Daytime	56			50%	2.9			Intermediate	0 - 90		D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling  D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	
Iding H - 15 - West	Roadways, Daytime	55	45		50%				Intermediate	0 - 90		D. mixed road traffic, distant aircraft		D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	

Building I - 1 - North	Roadways, Daytime	42 45	50% 2.9 3.0 3.0 Intermediate	0 - 90 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	2
Building I - 1 - East	Roadways, Daytime	38 45	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-2
Building I - 1 - South	Roadways, Daytime	54 45	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	14
Building I - 1 - West Building I - 6 - North	Roadways, Daytime Roadways, Daytime	55 45 44 45	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	15 4
Building I - 6 - East	Roadways, Daytime	37 45	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	-3
Building I - 6 - South	Roadways, Daytime	55 45	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	15
Building I - 6 - West	Roadways, Daytime	55 45 39 45	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-1
Building I - 12 - North Building I - 12 - East	Roadways, Daytime Roadways, Daytime	45 45	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-1
Building I - 12 - South	Roadways, Daytime	53 45	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
Building I - 12 - West	Roadways, Daytime	53 45	50% 2.9 3.0 3.0 Intermediate	0 - 90 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
NIGHT-TIME									
Building AB - 2 - North	Roadways, Night-time	42 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	4
Building AB - 2 - East	Roadways, Night-time	60 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	25
Building AB - 2 - South Building AB - 2 - West	Roadways, Night-time Roadways, Night-time	64 40 61 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	29 26
Building AB - 4 - North	Roadways, Night-time	42 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or operable thick window  C. sealed thin window, or openable thick window	7
Building AB - 4 - East	Roadways, Night-time	59 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	24
Building AB - 4 - South Building AB - 4 - West	Roadways, Night-time Roadways, Night-time	64 40 60 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	29 25
Building AB - 6 - North	Roadways, Night-time	41 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	7
Building AB - 6 - East	Roadways, Night-time	59 40	50% 2.9 3.0 3.0 Intermediate	30 - 90 1 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	25
Building AB - 6 - South	Roadways, Night-time	64 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	30
Building AB - 6 - West Building A - 27 - North	Roadways, Night-time Roadways, Night-time	60 40 41 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	26 9
Building A - 27 - East	Roadways, Night-time	59 40	50% 2.9 3.0 3.0 Intermediate	60 - 90 3 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	27
Building A - 27 - South	Roadways, Night-time	63 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	31
Building A - 27 - West Building B - 30 - North	Roadways, Night-time Roadways, Night-time	59 40 41 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	27 9
Building B - 30 - Bast	Roadways, Night-time	58 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft	43 D. Scurco	d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	26
Building B - 30 - South	Roadways, Night-time	62 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	30
Building B - 30 - West TH - North	Roadways, Night-time	60 40 43 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	28
TH - North TH - East	Roadways, Night-time Roadways, Night-time	43 40 54 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	19
TH - South	Roadways, Night-time	54 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	19
TH - West	Roadways, Night-time	41 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	6
Building C - 2 - North Building C - 2 - East	Roadways, Night-time Roadways, Night-time	34 40 49 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-1 14
Building C - 2 - South	Roadways, Night-time	51 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or operable thick window  C. sealed thin window, or openable thick window	16
Building C - 2 - West	Roadways, Night-time	48 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
Building C - 6 - North Building C - 6 - East	Roadways, Night-time Roadways, Night-time	34 40 48 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	-1 13
Building C - 6 - East Building C - 6 - South	Roadways, Night-time	51 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	16
Building C - 6 - West	Roadways, Night-time	49 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	14
Building C - 14 - North	Roadways, Night-time	36 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	1
Building C - 14 - East Building C - 14 - South	Roadways, Night-time Roadways, Night-time	47 40 50 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	12 15
Building C - 14 - West	Roadways, Night-time	48 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
Building D - 2 - North	Roadways, Night-time	32 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-3
Building D - 2 - East Building D - 2 - South	Roadways, Night-time Roadways, Night-time	48 40 49 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft	45 D. sealed 45 D. sealed	d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	13 14
Building D - 2 - West	Roadways, Night-time	44 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wail, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	9
Building D - 6 - North	Roadways, Night-time	32 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-3
Building D - 6 - East	Roadways, Night-time	47 40 48 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	12
Building D - 6 - South Building D - 6 - West	Roadways, Night-time Roadways, Night-time	48 40 43 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	13
Building D - 14 - North	Roadways, Night-time	32 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	-3
Building D - 14 - East	Roadways, Night-time	46 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	11
Building D - 14 - South	Roadways, Night-time	48 40 44 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
Building D - 14 - West Building EF - 2 - North	Roadways, Night-time Roadways, Night-time	44 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	10
Building EF - 2 - East	Roadways, Night-time	59 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	24
Building EF - 2 - South	Roadways, Night-time	63 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	28
Building EF - 2 - West Building EF - 6 - North	Roadways, Night-time Roadways, Night-time	59 40 45 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	24 11
Building EF - 6 - East	Roadways, Night-time	59 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	25
Building EF - 6 - South	Roadways, Night-time	63 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	29
Building EF - 6 - West Building E - 33 - North	Roadways, Night-time Roadways, Night-time	59 40 44 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	25 12
Building E - 33 - North	Roadways, Night-time	58 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	26
Building E - 33 - South	Roadways, Night-time	62 40	50% 2.9 3.0 3.0 Intermediate	60 - 90 3 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	30
Building E - 33 - West	Roadways, Night-time	59 40 44 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	27 12
Building F - 28 - North Building F - 28 - East	Roadways, Night-time Roadways, Night-time	44 40 54 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	22
Building F - 28 - South	Roadways, Night-time	60 40	50% 2.9 3.0 3.0 Intermediate	60 - 90 3 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	28
Building F - 28 - West	Roadways, Night-time	58 40	50% 2.9 3.0 3.0 Intermediate	60 - 90 3 D. mi:	ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	26
Church - North Church - East	Roadways, Night-time Roadways, Night-time	40 40 45 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	5 10
Church - South	Roadways, Night-time	53 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	18
Church - West	Roadways, Night-time	53 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	18
Building GH - 2 - North Building GH - 2 - East	Roadways, Night-time Roadways, Night-time	36 40 43 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	8
Building GH - 2 - East Building GH - 2 - South	Roadways, Night-time Roadways, Night-time	52 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	17
Building GH - 2 - West	Roadways, Night-time	51 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	16
Building GH - 6 - North	Roadways, Night-time	35 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	0
Building GH - 6 - East Building GH - 6 - South	Roadways, Night-time Roadways, Night-time	41 40 51 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	6 16
Building GH - 6 - West	Roadways, Night-time	50 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window  C. sealed thin window, or openable thick window	15
Building G - 15 - North	Roadways, Night-time	35 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	0
Building G - 15 - East	Roadways, Night-time Roadways, Night-time	45 40 50 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	10 15
Building G - 15 - South Building G - 15 - West	Roadways, Night-time Roadways, Night-time	49 40	50% 2.9 3.0 3.0 Intermediate 50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window C. sealed thin window, or openable thick window	15
Building H - 15 - North	Roadways, Night-time	32 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-3
Building H - 15 - East	Roadways, Night-time	43 40 50 40	50% 2.9 3.0 3.0 Intermediate		ixed road traffic, distant aircraft		d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	8 15
Building H - 15 - South	Roadways, Night-time	50 40	50% 2.9 3.0 3.0 Intermediate	0 - 90 0 D. mi:	ixed road traffic, distant aircraft	45 D. sealed	d thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	15

	Decidence Affaba des	48	- 40	50%	1 20	1 20	3.0	barana aras	1 1 0 00		D. mixed road traffic, distant aircraft	1.1	45 D sealed thick window or exterior wall or roof/ceiling	I I	40 1
Building H - 15 - West	Roadways, Night-time	48	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	U	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
Building I - 1 - North	Roadways, Night-time	35	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	0
Building I - 1 - East	Roadways, Night-time	31	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-4
Building I - 1 - South	Roadways, Night-time	48	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
Building I - 1 - West	Roadways, Night-time	48	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	13
Building I - 6 - North	Roadways, Night-time	37	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	2
Building I - 6 - East	Roadways, Night-time	31	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-4
Building I - 6 - South	Roadways, Night-time	49	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	14
Building I - 6 - West	Roadways, Night-time	49	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	14
Building I - 12 - North	Roadways, Night-time	33	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	-2
Building I - 12 - East	Roadways, Night-time	39	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	4
Building I - 12 - South	Roadways, Night-time	46	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft		45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	11
Building I - 12 - West	Roadways, Night-time	47	40	50%	2.9	3.0	3.0	Intermediate	0 - 90	0	D. mixed road traffic, distant aircraft	1 [	45 D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	12

