1010 Downsview Drive & 355 Plains Road East

Environmental Noise Assessment

Burlington, ON

SLR Project No: 241.30424.00000

May 2022

ENVIRONMENTAL NOISE ASSESSMENT
1010 Downsview Drive & 355 Plains Road East
Burlington, Ontario
SLR Project No: 241.30424.00000

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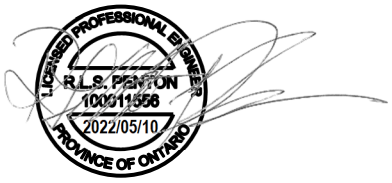
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1. INTRODUCTION

SLR Consulting (SLR) was retained by 335 Plains Holdings Inc. and 355 Plains Holdings Inc. to conduct an environmental noise assessment for the proposed mixed-use development (the Project) at 335 and 355 Plains Road East in Burlington, Ontario. This report is in support of the Official Plan Amendment (OPA) and Zoning Bylaw Amendment (ZBA) applications for the development.

1.1 FOCUS OF REPORT

In keeping with the City of Burlington and Halton Region requirements, this report examines the potential for:

- Noise impacts of the environment on the proposed development;
- Noise impacts of the proposed development on the environment; and
- Noise impacts of the proposed development on itself.

1.2 NATURE OF THE SURROUNDINGS

The proposed development site is bounded by the following:

- Low density residential dwellings to the north;
- Residential townhouses and parkland with a school, church and low density residential dwellings beyond to the west;
- A church and mid-rise residential building, with commercial and additional mid-rise residential buildings beyond to the east; and
- Plains Road East, with mid-rise residential, small commercial, and low-density residential dwellings beyond to the south.

A context plan is shown in Figure 1.

1.3 DESCRIPTION OF PROPOSED DEVELOPMENT

The Project is located at 1010 Downsview Drive and 355 Plains Road East, Burlington, on the north side of the road and on both the east and west sides of Downsview Drive. Each site is currently occupied by a low-rise commercial/retail building, which will be demolished. The proposed development will have two mixed-use mid-rise buildings and four blocks of residential townhouses.

The mid-rise mixed-use tower at 1010 Downsview Drive will be L-shaped and eight (8) storeys in height, with an elevated common amenity terrace located on the 3rd floor. Two ground level commercial/retail units will front towards Plains Road East. Floors 1 through 8 will contain residential units, with a mechanical penthouse above. Two 4-storey residential townhouse blocks will be located north of the mid-rise building and include both private elevated terraces (less than 4 m in depth) for the top-level occupants, and at-grade outdoor amenity areas north of the townhouse blocks. An at-grade amenity area will also be located on the west side of the building.

The development at 355 Plains Road East will have a U-shaped mid-rise building with a 6-storey podium, a 11-storey tower on the west side of the podium, and a 9-storey tower on the east side. Four ground level commercial/retail units will front towards Plains Road East. Elevated common amenity terraces are planned

atop a portion of the podium at the 3rd floor, and at the 7th floor between the two towers. Floors 1 through 11 will contain residential units. Two 4-storey residential townhouse blocks will be located north of the mid-rise building and include both private elevated terraces (less than 4 m in depth) for the top-level occupants, and at-grade outdoor amenity areas north of the townhouse blocks.

Access to the sites will be from Downsview Drive, between the mid-rise towers and the townhouses. Two levels of underground parking will be provided beneath the mid-rise buildings, and at-grade parking for the townhouse units.

A copy of the site plan and floor plans are included for reference in Appendix A. The site plan is shown in part in Figure 2. Block numbers and tower descriptions have been added by SLR for reporting purposes.

PART 1: IMPACTS OF THE ENVIRONMENT ON THE DEVELOPMENT

In assessing potential noise impacts associated with the proposed development, the focus of this report is to evaluate:

- Roadway noise impacts from Plains Road East and Downsview Drive on the development;
- Stationary source noise impacts from the CN Aldershot Yard to the north; and
- Stationary source noise impacts from the proposed development mechanical equipment onto the development itself, and onto surrounding noise-sensitive receptors.

The closest railway line right-of-way is located more than 400 m from the development to the north, and adverse impacts from routine GO and CN rail traffic are not expected. Assessment is also not required based on Halton Region and City of Burlington Official Plan guidelines, which requires noise studies if the development is within 300 m of the railway right-of-way.

Highway 403 is also located more than 800 m north of the development. Therefore, transportation noise impacts from rail traffic and Highway 403 have not been considered further in this study.

An assessment of aircraft noise is not considered necessary as there are no airports located in the surrounding area.

No significant sources of vibration were identified in the area surrounding the proposed development. Therefore, a vibration assessment was not required.

2. TRANSPORTATION NOISE IMPACTS

2.1 TRANSPORTATION NOISE SOURCES

The transportation sources of interest with potential to produce noise at the proposed development are roadway noise from Plains Road East and Downsview Drive.

Roadway noise from these sources has been predicted, and this information has been used to determine façade, ventilation, and warning clause requirements for the proposed development.

2.2 SURFACE TRANSPORTATION NOISE CRITERIA

2.2.1 MINISTRY OF ENVIRONMENT PUBLICATION NPC-300

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 summarize the applicable surface transportation (road) 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, Sleeping Quarters have more stringent criteria than Living/Dining room spaces.

Table 1: MECP Publication NPC-300 Sound Level Criteria for Road Traffic

Type of Space	Time Period	Equivalent Sound Exposure Level - L_{eq} (dBA)	Assessment Location
		Road	
Outdoor Living Area (OLA)	Daytime (0700-2300h)	55	Outdoors
Living / Dining Rooms	Daytime (0700-2300h)	45	Indoors [1]
	Night-time (2300-0700h)	45	Indoors [1]
Sleeping Quarters	Daytime (0700-2300h)	45	Indoors [1]
	Night-time (2300-0700h)	40	Indoors [1]

Notes to Table 1:
[1] An assessment of indoor noise levels is required only if the criteria in **Table 4** are exceeded.

Outdoor Amenity Areas

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

Table 2: MECP Publication NPC-300 Outdoor Living Area Mitigation Requirements

Time Period	Equivalent Sound Level in Outdoor Living Area (dBA)	Mitigation Requirements
Daytime (0700-2300h)	≤ 55	• None
	56 to 60 incl.	• Noise barrier **OR** Warning Clause A
	> 60	• Noise barrier to reduce noise to 55 dBA **OR** • Noise barrier to reduce noise to 60 dBA and Warning Clause B

Ventilation and Warning Clauses

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

Table 3: MECP Publication NPC-300 Ventilation & Warning Clause Requirements

Assessment Location	Time Period	Energy Equivalent Sound Exposure Level - L_{eq} (dBA)	Ventilation and Warning Clause Requirements
		Road	
Outdoor Living Area	Daytime (0700-2300h)	56 to 60 incl.	Type A Warning Clause
Plane of Window	Daytime (0700-2300h)	≤ 55	None
		56 to 65 incl.	Forced Air Heating /provision to add air conditioning + Type C Warning Clause
		> 65	Central Air Conditioning + Type D Warning Clause
	Night-time (2300-0700h)	51 to 60 incl.	Forced Air Heating/ provision to add air conditioning + Type C Warning Clause
		> 60	Central Air Conditioning + Type D Warning Clause

Building Shell Requirements

Table 4 provides sound level thresholds which if exceeded, require the building shell and components (i.e., wall, windows) to be designed and selected accordingly to ensure that the applicable indoor sound criteria are met.

Table 4: MECP Publication NPC-300 Building Component Requirements

Assessment Location	Time Period	Energy Equivalent Sound Exposure Level - L_{eq} (dBA))	Component Requirements
		Road	
Plane of Window	Daytime (0700-2300h)	> 65	Designed/Selected to Meet Indoor Requirements
	Night-time (2300-0700h)	> 60	

2.2.2 HALTON REGION

The Halton Region guidelines include the Noise Abatement Guidelines – Regional Official Plan Guidelines and the Land Use Compatibility Guidelines – Regional Official Plan Guidelines, both dated June 18, 2014.

In general, the Halton Region guidelines are consistent with the MECP NPC-300 guidelines, with the exception of the barrier assessment requirements. Differences include the requirement to consider mature-state-of-development traffic volumes for regional roads in the mitigation analysis, and the noise barrier height limitations (3.5 m maximum and 2.4 m minimum).

In addition, elevated outdoor amenity areas are excluded from the Halton Region guidelines. Due to City of Burlington guidelines discussed in the following section, this exclusion has been ignored in the assessment.

2.2.3 CITY OF BURLINGTON

The City of Burlington provided pre-consultation comments related to noise and vibration, which refer to Halton Region Noise Abatement Guidelines for development abutting arterial roads. Some exceptions to the Halton Region and NPC-300 guidelines were provided in the comments, discussed herein.

Although NPC-300 allows OLA sound levels up to 60 dBA with warning clauses, the City of Burlington requires all possible measures be taken to control OLA sound levels to 55 dBA or less if feasible. If not feasible, calculations are requested to confirm what levels could be achieved.

Furthermore, although NPC-300 indicates private terraces/balconies less than 4 m in depth do not require mitigation, if they are proposed, a warning clause may be required if predicted sound levels exceed 55 dBA.

2.3 TRAFFIC DATA AND FUTURE PROJECTIONS

2.3.1 ROAD TRAFFIC DATA

Future year (2041) average annual daily traffic (AADT) volumes and vehicle percentages were determined from Turning Movement Count (TMC) data collected at the intersection of Plains Road East and Downsview Drive. The most recently available data were collected in September 2020, but due to potential impacts of the COVID-19 on typical traffic volumes, data from April 2014 were also reviewed. Both data were projected to year 2041 at a typical growth rate of 2% per year, and the higher AADT values from 2014 were used in the assessment to be conservative.

Day/night splits and commercial vehicle percentages for Plains Road East were determined based on averages from 24-hour ATR data collected in November 2020. For Downsview Drive, a typical day/night split of 90%/10% was applied, and based on the TMC, the 2% of commercial traffic was assumed to be 50% medium trucks and 50% heavy trucks.

Copies of all traffic data, correspondence and related calculations are provided for reference in Appendix B. Table 5 summarizes the road traffic volumes and associated details used in the analysis.

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

Roadway Link	2041 Traffic Volumes (AADT)	% Day/ Night Volume Split		Commercial Traffic Breakdown		Vehicle Speed (km/h)
		Daytime	Night-time	% Medium Trucks	% Heavy Trucks	
Plains Road East	41474	95	5	3.8	1.1	60
Downsview Drive	2515	90	10	1.0	1.0	40

2.4 PROJECTED SOUND LEVELS

Future road traffic 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 the ORNAMENT algorithms, the road traffic noise model of the MECP. These predictions were validated and are equivalent to those made using the MECP's

ORNAMENT or STAMSON v5.04 road traffic noise models. A STAMSON validation file is included for reference in Appendix C.

Façade sound levels for the proposed development were predicted using the "building evaluation" feature of Cadna/A. This feature allows for noise levels to be predicted across the entire façade of a structure.

2.4.1 FAÇADE SOUND LEVELS

Predicted worst-case façade sound levels are presented in Table 6. The transportation façade sound levels are shown in Figure 2 and Figure 3 for daytime and night-time periods, respectively.

Table 6: Summary of Transportation Facade Sound Levels

Building	Façade [1]	Roadway Sound Levels [2]	
		L_{eq} Day (dBA)	L_{eq} Night (dBA)
1010 Downsview Drive Mid-Rise Tower	North	50	44
	East	66	57
	South	70	60
	West	66	56
1010 Downsview Drive West Townhouse Block	North	43	34
	East	50	40
	South	59	49
	West	59	49
1010 Downsview Drive East Townhouse Block	North	49	43
	East	57	49
	South	56	48
	West	54	44
355 Plains Road East 6-Storey Podium	North	49	43
	East	66	56
	South	70	60
	West	66	56
355 Plains Road East West Tower (Floors 7-11)	North	48	42
	East	64	54
	South	68	58
	West	64	55
355 Plains Road East East Tower (Floors 7-9)	North	46	37
	East	64	55
	South	68	58
	West	64	54
355 Plains Road East West Townhouse Block	North	50	44
	East	39	29
	South	55	47
	West	57	50
355 Plains Road East East Townhouse Block	North	41	34
	East	55	45
	South	54	44
	West	39	29

Notes on Following Page.

Notes to Table 6:

[1] Façade locations are shown in **Figure 2** and **Figure 3**.

[2] The sound levels presented are the highest predicted sound level for the façade. For the 355 Plains Road East podium, the façade descriptions represent the outer facades of the building.

The highest façade roadway sound levels are predicted to be above 65 dBA and 60 dBA during the daytime and nighttime periods, respectively. Therefore, based on the guidelines in NPC-300 referenced in **Table 4**, an assessment of building components is required for parts of proposed development, outlined in **Section 2.5** of this report.

2.4.2 OUTDOOR LIVING AREAS

The predicted noise impacts from the surrounding roadways onto the proposed development OLAs are shown in **Figure 4** and summarized in **Table 7**. In accordance with City of Burlington requirements, worst-case OLA assessment locations were also included for private terraces/balconies including those less than 4.0 m in depth, to determine warning clause requirements.

Table 7: Summary of Transportation Noise Impacts - OLAs

ID [1]	Assessment Location	Predicted Sound Level, L_{eq} Day (dBA)
OLA 1	355 Plains Rd E – Podium – 7th Floor Elevated Common Amenity Terrace	51
OLA 2	355 Plains Rd E – 3rd Floor Elevated Common Amenity Terrace	40
OLA 3	1010 Downsview Drive – Tower 3rd Floor Elevated Common Amenity Terrace	61
OLA 4	1010 Downsview Drive – At-Grade Common Amenity Area	46
OLA 5 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – North	60
OLA 6 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – Centre	62
OLA 7 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – South	64
OLA 8 [2]	1010 Downsview Drive – Tower – 7th Floor Private Elevated Terrace – North	60
OLA 9 [2]	1010 Downsview Drive – Tower – 7th Floor Private Elevated Terrace – South	61
OLA 10 [2]	1010 Downsview Drive – West Townhouse Block – West Private Elevated Terrace	58
OLA 11	1010 Downsview Drive – West Townhouse Block – West Rear Yard Amenity Space	55
OLA 12 [2]	1010 Downsview Drive – East Townhouse Block – East Private Elevated Terrace	56
OLA 13 [2]	355 Plains Rd E – West Townhouse Block – West Private Elevated Terrace	55
OLA 14 [2]	355 Plains Rd E – East Townhouse Block – East Private Elevated Terrace	54
OLA 15	355 Plains Rd E – East Townhouse Block – East Rear Yard Amenity Space	51
OLA 16	355 Plains Rd E – West Townhouse Block – West Rear Yard Amenity Space	53
OLA 17 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Southwest	56
OLA 18 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Southeast	55
OLA 19 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Northwest	53
OLA 20 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Northeast	52
OLA 21 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Southwest	53
OLA 22 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Southeast	57
OLA 23 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Northwest	51
OLA 24 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Northeast	56

Notes to Table 7:

[1] OLA assessment locations are shown in **Figure 4**.

[2] The assessment location has been included based on requirements of the City of Burlington and is not technically an OLA as defined by NPC-300.

The predicted outdoor sound level at OLA 3 is above 55 dBA (i.e., for the 3rd floor elevated common amenity terrace); therefore, mitigation is required. Mitigation requirements are discussed further in Section 2.6.2.

The development mid-rise buildings include common amenity spaces for all occupants, but due to the presence of private terraces/balconies, warning clauses will also be required in accordance with City of Burlington requirements. Warning clauses are discussed further in Section 0.

2.5 FAÇADE ASSESSMENT

Based on the values presented in Table 6, predicted sound levels along some facades exceed 65 dBA during the daytime. Therefore, wall and window construction to achieve the indoor sound level requirements as outlined in NPC-300 have been determined.

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 56. This document provides a method to estimate the STC ratings required based on roadway noise.

Calculations for all façade locations with daytime/night-time sound levels exceeding 65 dBA/60 dBA are provided for reference in Appendix D. Detailed architectural floor plans were not yet available the time of this study. The following assumptions were therefore made in the assessment:

- Window wall construction with glazing and glass spandrel panel elements;
- For living/dining rooms, 70% of the exterior wall is vision glass/patio doors;
- For bedrooms, 50% of the exterior wall is vision glass;
- Non-glazing portions of the wall (i.e., glass spandrel panel) has an assumed STC rating of 43;
- Living rooms were assumed to be 3 m x 6 m in size with intermediate absorption;
- Bedrooms were assumed to be 3 m x 3 m in size with intermediate absorption.

Glazing STC requirements are summarized in Table 8, and for corner units, Table 9.

The building façade requirements should be reviewed by an acoustical consultant in detail when detailed floor plans and elevations are available, usually at the Site Plan Application (SPA) or building permit stage of the development.

Table 8: Transportation Noise – Façade STC Requirements

Building	Façade	Non-Vision Glazing Portion of Facade	Windows and Patio Doors	
			Living/Dining Room (STC)	Bedroom (STC)
1010 Downsview Drive Mid-Rise Tower	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	30
	West	43	OBC	OBC
1010 Downsview Drive West Townhouse Block	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	OBC
	West	43	OBC	OBC
1010 Downsview Drive East Townhouse Block	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	OBC
	West	43	OBC	OBC
355 Plains Road East 6-Storey Podium	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	30
	West	43	OBC	OBC
355 Plains Road East West Tower (Floors 7-11)	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	OBC
	West	43	OBC	OBC
355 Plains Road East East Tower (Floors 7-9)	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	OBC
	West	43	OBC	OBC
355 Plains Road East West Townhouse Block	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	OBC
	West	43	OBC	OBC
355 Plains Road East East Townhouse Block	North	43	OBC	OBC
	East	43	OBC	OBC
	South	43	OBC	OBC
	West	43	OBC	OBC

Table 9: Transportation Noise – Façade STC Requirements – Corner Units

Building	Façade [1]	Non-Vision Glazing Portion of Facade	Windows and Patio Doors	
			Living/Dining Room (STC)	Bedroom (STC)
1010 Downsview Drive Mid-Rise Tower	Southeast	43	31	33
	Southwest	43	31	33
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC
1010 Downsview Drive West Townhouse Block	Southeast	43	OBC	OBC
	Southwest	43	OBC	OBC
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC
1010 Downsview Drive East Townhouse Block	Southeast	43	OBC	OBC
	Southwest	43	OBC	OBC
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC
355 Plains Road East 6-Storey Podium	Southeast	43	31	33
	Southwest	43	31	33
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC
355 Plains Road East West Tower (Floors 7-11)	Southeast	43	OBC	31
	Southwest	43	OBC	31
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC
355 Plains Road East East Tower (Floors 7-9)	Southeast	43	OBC	31
	Southwest	43	OBC	31
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC
355 Plains Road East West Townhouse Block	Southeast	43	OBC	OBC
	Southwest	43	OBC	OBC
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC
355 Plains Road East East Townhouse Block	Southeast	43	OBC	OBC
	Southwest	43	OBC	OBC
	Northeast	43	OBC	OBC
	Northwest	43	OBC	OBC

2.6 VENTILATION, BARRIER AND WARNING CLAUSE REQUIREMENTS

2.6.1 RESIDENTIAL UNITS

The requirements for triggering warning clauses are summarized in Table 3. Where required, the warning clauses should be included in agreements registered on Title for the residential units. They would be included in agreements of Offers of Purchase and Sale, lease/rental agreements and condominium declarations. Ventilation warning clauses for the proposed development are summarized in Appendix E.

Based on the predicted façade noise levels, the following townhouses in the proposed development will require forced air heating with provisions for future installation of central air conditioning with an MECP Type C warning clause:

- 1010 Downsview Drive – West and East Townhouse Blocks; and,
- 355 Plains Road East – West Townhouse Block.

The mid-rise portions of the development will require central air conditioning to be implemented for noise control purposes, with an MECP Type D warning clause. This requirement is applicable to the following:

- 1010 Downsview Drive – Mid-Rise Tower; and,
- 355 Plains Road East – Podium, West Tower, and East Tower

2.6.2 OUTDOOR AMENITY AREAS

Mitigation is required for the 3rd floor elevated common amenity terrace at the 1010 Downsview Drive mid-rise tower, as the predicted sound level is 61 dBA. A 1.4 m high parapet wall around the terrace is required to achieve a sound level of 55 dBA at OLA 3. The location and extent of the parapet wall is shown on Figure 6.

The parapet wall must be constructed of a material with surface density of 20 kg/m^2, and without any cracks or gaps (except for small, localized gaps under the barrier if required for drainage purposes). A range of materials can be used to construct the barriers, including concrete, wood and plexiglass, provided the surface density requirements are met.

Warning clauses for other private terrace/ balcony OLAs not normally considered under MECP Publication NPC-300 are also required in accordance with City of Burlington guidelines. The following locations within the proposed development have predicted outdoor sound levels in excess of 55 dBA and therefore require warning clauses as described in Appendix E:

- 1010 Downsview Drive – West Townhouse Block – Units with south-facing elevated terraces;
- 1010 Downsview Drive – East Townhouse Block – First unit from the east with south-facing elevated terrace;
- 1010 Downsview Drive – Mid-Rise Tower – All west-facing private terraces/balconies at the southern portion of the 'L' shape;
- 1010 Downsview Drive – Mid-Rise Tower – All south-facing and east-facing units with private terraces/balconies;
- 355 Plains Road East – Podium – All west-facing, south-facing, and east-facing units on the outside of the building with private terraces/balconies;

- 355 Plains Road East – West Tower – All west-facing and south-facing units with private terraces/balconies, and the first unit from the south with an east-facing private balcony/terrace;
- 355 Plains Road East – West Tower – Unit with access to the southwest private rooftop terrace;
- 355 Plains Road East – East Tower – Units with access to the private southeast and northeast rooftop terraces; and
- 355 Plains Road East – East Tower – All east-facing and south-facing units with private terraces/balconies, and the first unit from the south with a west-facing private balcony/terrace.

The locations where the OLA-specific warning clauses are applicable are illustrated on Figure 6.

3. STATIONARY SOURCE NOISE IMPACTS

3.1 STATIONARY SOURCE NOISE CRITERIA

3.1.1 MECP NPC-300 GUIDELINES FOR STATIONARY NOISE SOURCES

The applicable MECP noise guidelines for new sensitive land uses adjacent to existing industrial and commercial uses are provided in MECP Publication NPC-300. NPC-300 revokes and replaces the previous noise assessment guideline, Publication LU-131 and Publication NPC-205, which was previously used for assessing noise impacts as part of Certificates of Approval / Environmental Compliance Approvals granted by the MECP for industries.

The NPC-300 guideline sets out noise limits for two main types of noise sources:

- Non-impulsive, "continuous" noise sources such as ventilation fans, mechanical equipment, and vehicles while moving within the property boundary of an industry. Continuous noise is measured using 1-hour average sound exposures (L_{eq} (1-hr) values), in dBA; and
- Impulsive noise, which is a "banging" type noise characterized by rapid rise time and decay. Impulsive noise is measured using a logarithmic mean (average) level (L_{LM}) of the impulses in a one-hour period, in dBAI.

Furthermore, the guideline requires an assessment at, and provides separate guideline limits for:

- Outdoor points of reception (e.g., back yards, communal outdoor amenity areas); and
- Façade points of reception such as planes of windows on outdoor façades which connect onto noise sensitive spaces such as living rooms, dens, eat-in kitchens, dining rooms and bedrooms.

The applicable noise limits at a point of reception are the higher of:

- The existing ambient sound level due to road traffic, or
- The exclusion limits set out in the guideline.

Table 10 sets out the exclusion limits from the guideline for continuous, non-impulsive sounds in a Class 1 area.

Table 10: NPC-300 Exclusion Limits for Non-Impulsive Sounds (L_{eq} (1-hr), dBA)

Time of Day	Class 1 Area	
	Plane of Window of Noise Sensitive Spaces	Outdoor Points of Reception [1]
Daytime (7 am to 7 pm)	50	50
Evening (7 pm to 11 pm)	50	50
Night-time (11 pm to 7 am)	45	n/a

Notes to Table 10:

[1] n/a (not applicable) – outdoor points of reception are not considered to be noise sensitive during night-time hours

Table 11 summarizes the exclusion limits from the guideline for impulsive sounds in a Class 1 area.

Table 11: NPC-300 Exclusion Limits for Impulsive Sounds (L_{LLM} (1-hr), dBAI)

Time of Day	No. of Impulses in a 1-hour Period	Class 1 Area	
		Plane of Windows of Noise Sensitive Spaces	Outdoor Points of Reception [1]
Daytime (7 am to 11 pm)	9 or more	50	50
	7 to 8	55	55
	5 to 6	60	60
	4	65	65
	3	70	70
	2	75	75
	1	80	80
Night-time (11 pm to 7 am)	9 or more	45	n/a
	7 to 8	50	n/a
	5 to 6	55	n/a
	4	60	n/a
	3	65	n/a
	2	70	n/a
	1	75	n/a

Notes to Table 11:

[1] n/a (not applicable) – outdoor points of reception are not considered to be noise sensitive during night-time hours

Sound level limits for assessing noise produced by emergency equipment operating in non-emergency situations, such as during routine monthly testing or maintenance, are 5 dB greater than the limits otherwise applicable to stationary sources. Additionally, emergency equipment operating in non-emergency situations is to be assessed independently of all other stationary noise sources.

3.1.2 APPLICATION OF THE NPC-300 GUIDELINES

The stationary source noise guidelines apply only to residential land uses and to noise-sensitive commercial and institutional uses, as defined in NPC-300 (e.g., schools, daycares, hotels). For the Project, the stationary noise guidelines only apply to the residential portions of the development, including:

- Individual residences;
- Communal indoor amenity areas; and
- Communal outdoor amenity areas.

All of the above have been considered as noise-sensitive points of reception in the analysis.

Based on the nature of the area, the Class 1 area minimum exclusion sound level limits apply.

3.1.3 HALTON REGION AND CITY OF BURLINGTON GUIDELINES

The Halton Region Official Plan and the City of Burlington Office Plan require that a noise study be completed for a residential development if it is located with 1000 m of a railway yard.

The CN Aldershot Yard is located approximately 415 m from the proposed development. Therefore, the yard has been considered as a stationary source, and noise impacts were evaluated against NPC-300 guidelines outlined in the previous section.

3.2 DESCRIPTION OF NEARBY STATIONARY SOURCES

The surrounding area was reviewed to determine stationary noise sources in proximity to the proposed development. Assessment of stationary sources was determined in part based on the MECP Guideline D-6 Potential Influence Areas. These are illustrated on Figure 7. Commercial/retail lands that make up most of the nearby stationary sources are considered to be Class 1 Industries based on these guidelines, which have a 70 m area of influence. These stationary sources are discussed further in the following subsections.

The CN Aldershot Yard is located approximately 415 m northwest of the proposed development. Due to requirements by Halton Region and the City of Burlington, despite the presence of several intervening residences at which applicable sound level limits must be met, the impacts of the CN Aldershot Yard have been assessed in this study.

Apart from the CN Aldershot Yard, the closest Class 2 and 3 facilities to the proposed development are outside of the 300 m and 1000 m areas of influence, respectively, as defined in MECP Guideline D-6. Furthermore, there are several significantly closer intervening residences at which the noise guidelines must be met. Therefore, no other Class 2 or 3 facilities have been considered in this assessment.

East Plains United Church and Child Care Centre

The East Plains United Church and Child Care Centre is located immediately east of the proposed development at 375 Plains Road East. Potential noise sources associated with the facility are rooftop HVAC units and ringing of bells. During the site visit on January 27, 2022, there were no audible church-related sources at the proposed development's east property line. Furthermore, ringing bells are not considered stationary sources as defined by NPC-300.

Due to high traffic volumes and ambient daytime sound levels due to road traffic along Plains Road East, adverse noise impacts from the church HVAC units are not anticipated, and the facility has not been considered further in this assessment.

364-376 Plains Road East – Ground Floor Commercial/Retail

There are seven (7) ground floor commercial/retail establishments fronting towards Plains Road East between 364-376 Plains Road East, below residential townhouse units. During the site visit on January 27, 2022, no significant sources of noise associated with these establishments were identified with the potential to impact the proposed development. Therefore, they have not been considered further in this assessment.

GTA Auto Repairs Ltd.

The GTA Auto Repairs Ltd. facility is an automobile general repair shop located at 360 Plains Road East, across from the proposed development. It is open during daytime hours only, Monday through Saturday. Potential noise sources associated with the facility include impact wrenches, compressed air, or other tools inside the six overhead bay doors that face west towards an adjacent residential townhouse block.

Due to high traffic volumes and ambient daytime sound levels due to road traffic along Plains Road East, adverse noise impacts from the facility are not anticipated. The facility would also be required to meet applicable guideline limits at the much closer and more-exposed residential townhouse block at 350 Plains Road East (East Plains Village), and the newly constructed 6-storey development at 340 Plains Road East overlooking the auto repair shop. Therefore, the facility has not been considered further in this assessment.

340 Plains Road East – Residential Condominium

A new six-storey residential condominium is located at 340 Plains Road East, across from the proposed development. Sources of noise with the potential to impact the proposed development include rooftop mechanical equipment such as make-up air units.

Due to high traffic volumes and ambient daytime sound levels due to road traffic along Plains Road East, adverse noise impacts from the condominium mechanical equipment are not expected. Therefore, the facility has not been considered further in this assessment.

CN Aldershot Yard

The CN Aldershot Yard is located to the northwest, within 1000 m of the proposed development. Potential sources of noise associated with the yard include idling locomotives (continuous noise), and knuckle thumps (impulsive noise) associated with train coupling and uncoupling.

A detailed stationary noise modelling assessment of the CN Aldershot Yard has been conducted to assess compliance with Class 1 guideline limits in NPC-300, as outlined in the following section.

3.3 STATIONARY SOURCE NOISE MODELLING

Noise impacts from the CN Aldershot Yard were modelled using Cadna/A, a software implementation of the internationally recognized ISO-9613-2 environmental noise propagation algorithms. Cadna/A / ISO-9613 is the preferred noise model of the MECP. The ISO 9613 equations account for:

- Source to receiver geometry;
- Distance attenuation;
- Atmospheric absorption;
- Reflections off of the ground and ground absorption;
- Reflections off of vertical walls; and
- Screening effects of buildings, terrain, and purpose-built noise barriers (noise walls, berms, etc.).

The following additional parameters were used in the modelling, which are consistent with providing a conservative (predictable worst-case assessment of noise levels):

- Temperature: 10°C;

- Relative Humidity: 70%;
- Ground Absorption G: G=0.0 (reflective) as default global parameter; G = 0.5 for the low-density residential area north of the proposed development; G = 0.8 for the rail track/ballast area; G = 1.0 (absorptive) for other localized grassy areas.
- Reflection: An order of reflection of 2 was used (accounts for noise reflecting from walls);
- Wall Absorption Coefficients: Set to 0.37 or 0.21 (37 % or 21% of energy is absorbed, 63% or 79% is reflected); and
- Terrain: 0.5 m topographic contours for the proposed development and surrounding area.

Sound level data from site visit measurements and generic SLR historical sound level data was applied in the stationary noise modelling. A summary of the sound levels used in the analysis and equipment operating conditions is included in Appendix F. The modelled stationary sources for CN Aldershot Yard are shown on Figure 7. The modelling scenarios considered the following:

- Continuous Noise – three (3) freight locomotives idling for a complete hour during any daytime, evening or night-time hour; and
- Impulsive Noise – more than 9 impulses due to knuckle-thumps during any daytime, evening or night-time hour.

3.3.1 PREDICTED FAÇADE SOUND LEVELS

The "building evaluation" feature of Cadna/A was used to assess noise impacts on the residential portions of the proposed development podium and towers. This feature allows for noise levels to be predicted across the entire façade of a structure. A façade sample calculation is provided in Appendix F.

3.3.1.1 Continuous Noise

A summary of the predicted continuous noise impacts on each façade are shown in Table 12, and Figure 8. The predicted impacts are the same for daytime, evening and night-time hours as the operating scenarios are the same.

Table 12: Summary of Stationary Source Façade Sound Levels – Continuous Noise

Building	Façade [1]	Predicted Day/Evening/Night 1-hr L_{eq} (dBA)	Compliance with Class 1 Criteria?
1010 Downsview Drive Mid-Rise Tower	North	45	Yes
	East	45	Yes
	South	34	Yes
	West	36	Yes
1010 Downsview Drive West Townhouse Block	North	39	Yes
	East	39	Yes
	South	32	Yes
	West	20	Yes
1010 Downsview Drive East Townhouse Block	North	40	Yes
	East	40	Yes
	South	38	Yes
	West	31	Yes
355 Plains Road East 6-Storey Podium	North	45	Yes
	East	44	Yes
	South	28	Yes
	West	38	Yes
355 Plains Road East West Tower (Floors 7-11)	North	45	Yes
	East	45	Yes
	South	27	Yes
	West	38	Yes
355 Plains Road East East Tower (Floors 7-9)	North	45	Yes
	East	42	Yes
	South	27	Yes
	West	42	Yes
355 Plains Road East West Townhouse Block	North	40	Yes
	East	41	Yes
	South	34	Yes
	West	27	Yes
355 Plains Road East East Townhouse Block	North	40	Yes
	East	39	Yes
	South	35	Yes
	West	34	Yes

Notes to Table 12:

[1] Façade locations are identified on **Figure 8**.

[2] Sound levels shown represent the calculated worst-case impact along the identified facade.

The stationary source noise impacts were found to be at or below the applicable Class 1 noise guideline limits for all façade locations during daytime, evening and night-time periods. Therefore, mitigation is not required.

3.3.1.2 Impulsive Noise

A summary of the predicted impulsive noise impacts on each façade are shown in Table 13, and Figure 9. The predicted impacts are the same for daytime, evening and night-time hours as the operating scenarios are the same. All sound levels are predicted to be below the default Class 1 criteria daytime, evening and night-time hours. Therefore, noise mitigation is not required.

Table 13: Summary of Stationary Source Façade Sound Levels – Impulsive Noise

Building	Façade [1]	Predicted Day/Evening/Night 1-hr L_{LM} (dBAI)	Compliance with Class 1 Criteria?
1010 Downsview Drive Mid-Rise Tower	North	39	Yes
	East	36	Yes
	South	32	Yes
	West	37	Yes
1010 Downsview Drive West Townhouse Block	North	39	Yes
	East	36	Yes
	South	30	Yes
	West	35	Yes
1010 Downsview Drive East Townhouse Block	North	38	Yes
	East	34	Yes
	South	33	Yes
	West	36	Yes
355 Plains Road East 6-Storey Podium	North	39	Yes
	East	34	Yes
	South	22	Yes
	West	37	Yes
355 Plains Road East West Tower (Floors 7-11)	North	40	Yes
	East	37	Yes
	South	37	Yes
	West	23	Yes
355 Plains Road East East Tower (Floors 7-9)	North	39	Yes
	East	35	Yes
	South	22	Yes
	West	37	Yes
355 Plains Road East West Townhouse Block	North	38	Yes
	East	36	Yes
	South	33	Yes
	West	36	Yes
355 Plains Road East East Townhouse Block	North	38	Yes
	East	34	Yes
	South	32	Yes
	West	37	Yes

Notes to Table 13:

[1] Façade locations are identified on Figure 9.

[2] Sound levels shown represent the calculated worst-case impact along the identified facade.

3.3.2 PREDICTED OUTDOOR SOUND LEVELS

3.3.2.1 Continuous Noise

The predicted worst-case noise outdoor impacts from the continuous stationary sources are shown in Table 14 and on Figure 10. All outdoor sound levels are predicted to be below the default Class 1 criteria of 50 dBA for daytime and evening hours. Therefore, noise mitigation is not required.

Table 14: Summary of Stationary Source Outdoor Sound Levels – Continuous Noise

ID [1]	Assessment Location	Predicted Sound Level, 1-hr L_{eq} (dBA)
OLA 1	355 Plains Rd E – Podium – 7th Floor Elevated Common Amenity Terrace	41
OLA 2	355 Plains Rd E – 3rd Floor Elevated Common Amenity Terrace	36
OLA 3	1010 Downsview Drive – Tower 3rd Floor Elevated Common Amenity Terrace	32
OLA 4	1010 Downsview Drive – At-Grade Common Amenity Area	26
OLA 5 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – North	34
OLA 6 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – Centre	32
OLA 7 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – South	25
OLA 8 [2]	1010 Downsview Drive – Tower – 7th Floor Private Elevated Terrace – North	33
OLA 9 [2]	1010 Downsview Drive – Tower – 7th Floor Private Elevated Terrace – South	32
OLA 10 [2]	1010 Downsview Drive – West Townhouse Block – West Private Elevated Terrace	25
OLA 11	1010 Downsview Drive – West Townhouse Block – West Rear Yard Amenity Space	32
OLA 12 [2]	1010 Downsview Drive – East Townhouse Block – East Private Elevated Terrace	28
OLA 13 [2]	355 Plains Rd E – West Townhouse Block – West Private Elevated Terrace	39
OLA 14 [2]	355 Plains Rd E – East Townhouse Block – East Private Elevated Terrace	35
OLA 15	355 Plains Rd E – East Townhouse Block – East Rear Yard Amenity Space	38
OLA 16	355 Plains Rd E – West Townhouse Block – West Rear Yard Amenity Space	33
OLA 17 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Southwest	32
OLA 18 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Southeast	42
OLA 19 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Northwest	46
OLA 20 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Northeast	45
OLA 21 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Southwest	33
OLA 22 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Southeast	38
OLA 23 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Northwest	47
OLA 24 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Northeast	47

Notes to Table 14:

[1] OLA assessment locations are shown in Figure 10.

[2] The assessment location has been included based on requirements of the City of Burlington and is not technically an OLA as defined by NPC-300.

3.3.2.2 Impulsive Noise

The predicted worst-case noise outdoor impacts from the impulsive stationary sources are shown in

Table 15 and on Figure 11. All outdoor sound levels are predicted to be below the default Class 1 criteria of 50 dBAI for daytime and evening hours with 9 or more impulses. Therefore, noise mitigation is not required.

Table 15: Summary of Stationary Source Outdoor Sound Levels – Impulsive Noise

ID [1]	Assessment Location	Predicted Sound Level, 1-hr L_{LM} (dBAI)
OLA 1	355 Plains Rd E – Podium – 7th Floor Elevated Common Amenity Terrace	33
OLA 2	355 Plains Rd E – 3rd Floor Elevated Common Amenity Terrace	32
OLA 3	1010 Downsview Drive – Tower 3rd Floor Elevated Common Amenity Terrace	35
OLA 4	1010 Downsview Drive – At-Grade Common Amenity Area	29
OLA 5 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – North	38
OLA 6 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – Centre	38
OLA 7 [2]	1010 Downsview Drive – Tower – 5th Floor Private Elevated Terrace – South	38
OLA 8 [2]	1010 Downsview Drive – Tower – 7th Floor Private Elevated Terrace – North	36
OLA 9 [2]	1010 Downsview Drive – Tower – 7th Floor Private Elevated Terrace – South	37
OLA 10 [2]	1010 Downsview Drive – West Townhouse Block – West Private Elevated Terrace	26
OLA 11	1010 Downsview Drive – West Townhouse Block – West Rear Yard Amenity Space	36
OLA 12 [2]	1010 Downsview Drive – East Townhouse Block – East Private Elevated Terrace	33
OLA 13 [2]	355 Plains Rd E – West Townhouse Block – West Private Elevated Terrace	32
OLA 14 [2]	355 Plains Rd E – East Townhouse Block – East Private Elevated Terrace	34
OLA 15	355 Plains Rd E – East Townhouse Block – East Rear Yard Amenity Space	33
OLA 16	355 Plains Rd E – West Townhouse Block – West Rear Yard Amenity Space	33
OLA 17 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Southwest	35
OLA 18 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Southeast	34
OLA 19 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Northwest	41
OLA 20 [2]	355 Plains Rd E – West Tower – 12th Floor Private Terrace - Northeast	41
OLA 21 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Southwest	34
OLA 22 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Southeast	31
OLA 23 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Northwest	40
OLA 24 [2]	355 Plains Rd E – East Tower – 10th Floor Private Terrace - Northeast	41

Notes to Table 15:

[1] OLA assessment locations are shown in Figure 11.

[2] The assessment location has been included based on requirements of the City of Burlington and is not technically an OLA as defined by NPC-300.

PART 2: IMPACTS OF THE DEVELOPMENT ON ITSELF

4. STATIONARY SOURCE NOISE IMPACTS ON THE DEVELOPMENT ITSELF

The building mechanical systems (e.g., make-up air units, cooling units, emergency generator and parking garage vents) have not been selected or 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 itself.

Therefore, the potential noise impacts from mechanical systems should be assessed as part of the final building design. Criteria are 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, and by incorporating appropriate control measures (e.g., silencers, barriers) into the design.

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

PART 3: IMPACTS OF THE DEVELOPMENT ON THE SURROUNDING AREA

5. STATIONARY SOURCE NOISE IMPACTS ON SURROUNDING AREA

With respect to the noise environment of the area (i.e., Class 1), 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 potential noise impacts.

Other noise sources associated with the proposed development with possible adverse impacts on the surrounding neighbourhood are mechanical equipment (e.g., make up air units, cooling units, and parking garage vents). Sound levels due to operation of these sources are required to meet MECP Publication NPC-300 limits at off-site noise sensitive receptors.

Off-site impacts are not anticipated given the elevated ambient sound levels in the area, and because systems will be designed to ensure that the applicable noise guidelines are met at on-site receptors.

Regardless, potential impacts will be assessed as part of the final building design to ensure compliance. The applicable criteria can be met at all surrounding and on-site receptors though the use of routine mitigation measures, including 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 that the mechanical systems be reviewed by an accredited Acoustical Consultant prior to final selection of equipment.

6. 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 itself, and the development on the surrounding area have been considered. Based on the results of this assessment, the following conclusions have been reached:

6.1 TRANSPORTATION NOISE

- An assessment of transportation noise impacts from surrounding roadways has been completed.
- Based on predicted transportation façade sound levels, upgraded glazing is required for portions of the development as outlined in Section 2.5.
- Noise impacts at two common amenity terraces areas exceed 55 dBA; therefore, parapet walls are required as outlined in Section 2.6.2 and Appendix E.
- City of Burlington "OLA Clause" warning clauses are required for several private/terraces that do not meet the definitions of NPC-300, but have predicted sound levels exceeding 55 dBA, as outlined in Section 2.6.2 and Appendix E
- Several units require the provision for air conditioning and Type C Warning Clauses, as outlined in Section 2.6.1 and Appendix E. Warning clauses should be included in agreements registered on Title for the residential units. They would be included in agreements of Offers of Purchase and Sale, lease/rental agreements and condominium declarations.
- Several units require central air conditioning and Type D Warning Clauses, as outlined in Section 2.6.1 and Appendix E. Warning clauses should be included in agreements registered on Title for the residential units. They would be included in agreements of Offers of Purchase and Sale, lease/rental agreements and condominium declarations.

6.2 STATIONARY NOISE

- Stationary source noise impacts onto the proposed development from the CN Aldershot Yard were assessed, as outlined in Section 3.
- Noise impacts from the CN Aldershot Yard are predicted to meet applicable guideline limits at all building façade and at outdoor living area locations without the need for noise control measures.
- No other stationary sources with the potential for adverse noise impacts on the development were identified in the surrounding area.

6.3 OVERALL ASSESSMENT

- Impacts of the environment on the proposed development can be adequately controlled with upgraded glazing, parapet walls, and the inclusion of appropriate ventilation and warning clauses as detailed in Part 1 of this report.
- Impacts of the proposed development on itself are not anticipated and can be adequately controlled by following the design guidance outlined in Part 2 of this report.

- Impacts of the proposed development on the surroundings are expected to meet the applicable guideline limits 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, equipment selections and acoustical design should be reviewed by an accredited Acoustical Consultant as part of the final building design.

7. REFERENCES

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

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

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

Ontario Ministry of the Environment, Conservation and Parks, 1996, STAMSON v5.04: Road, Rail and Rapid Transit Noise Prediction.

8. STATEMENT OF LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by SLR Consulting (Canada) Ltd. (SLR) for 335 Plains Holdings Inc. & 355 Plains Holdings Inc., hereafter referred to as the "Client". It is intended for the sole and exclusive use of the Client. The report has been prepared in accordance with the Scope of Work and agreement between SLR and the Client. Other than by the Client and by the City and Region in their role as land use planning authorities, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted unless payment for the work has been made in full and express written permission has been obtained from SLR.

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FIGURES

Environmental Noise Assessment

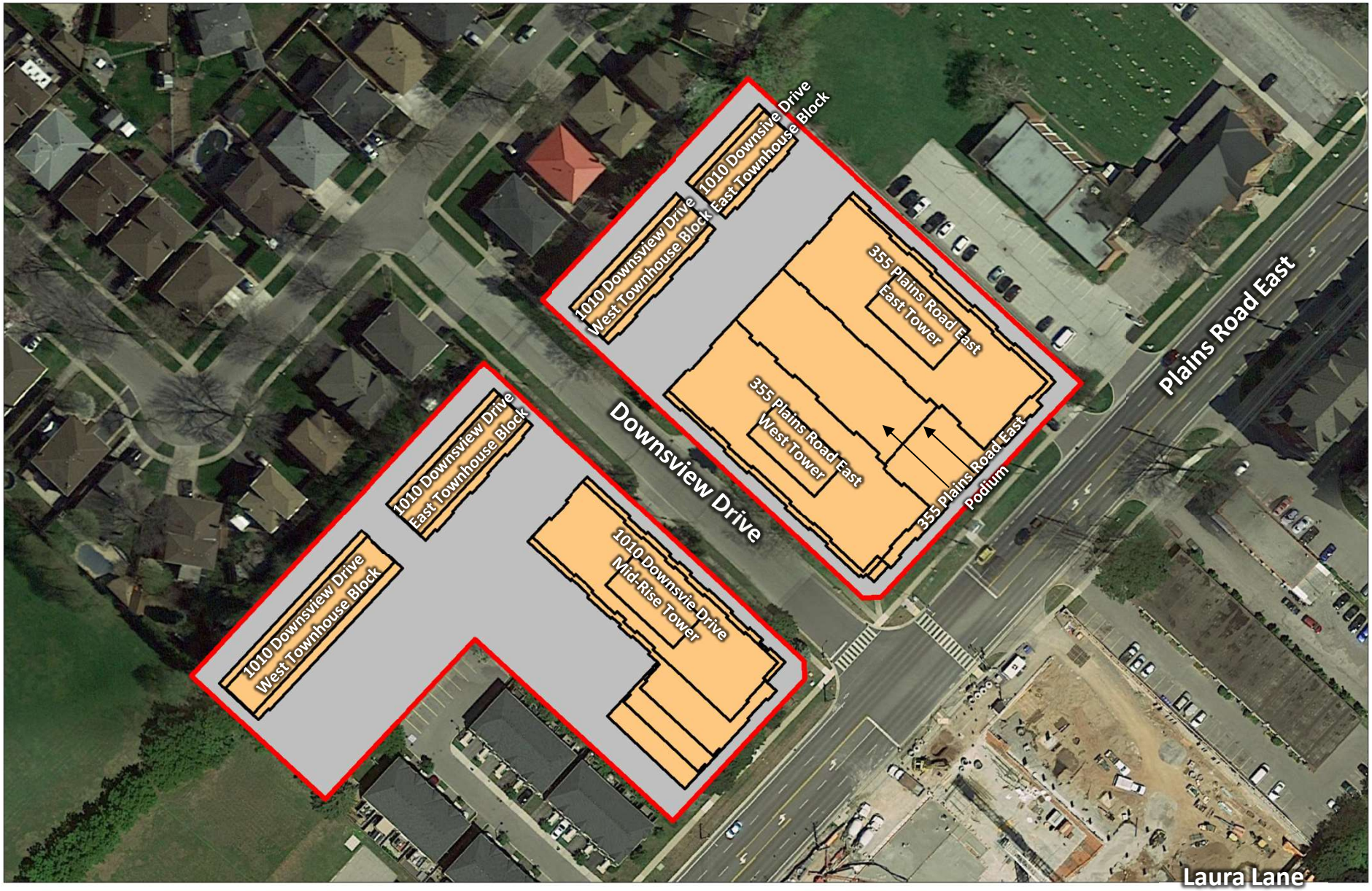
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Burlington, ON

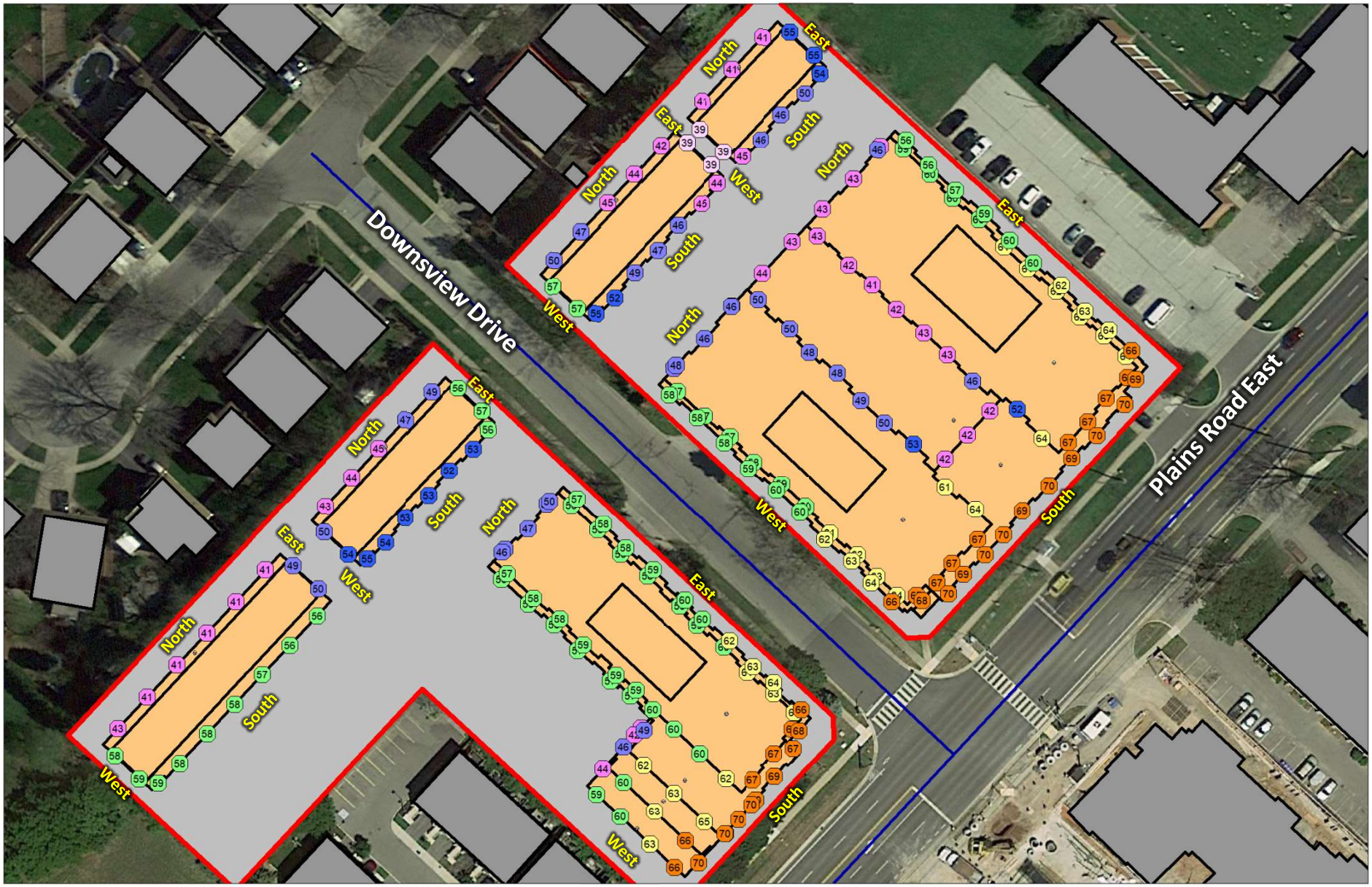
SLR Project No.: 241.30424.00000



335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:5000	METRES	SLR global environmental solutions
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. 1	
CONTEXT PLAN		Project No. 241.30424.00000		



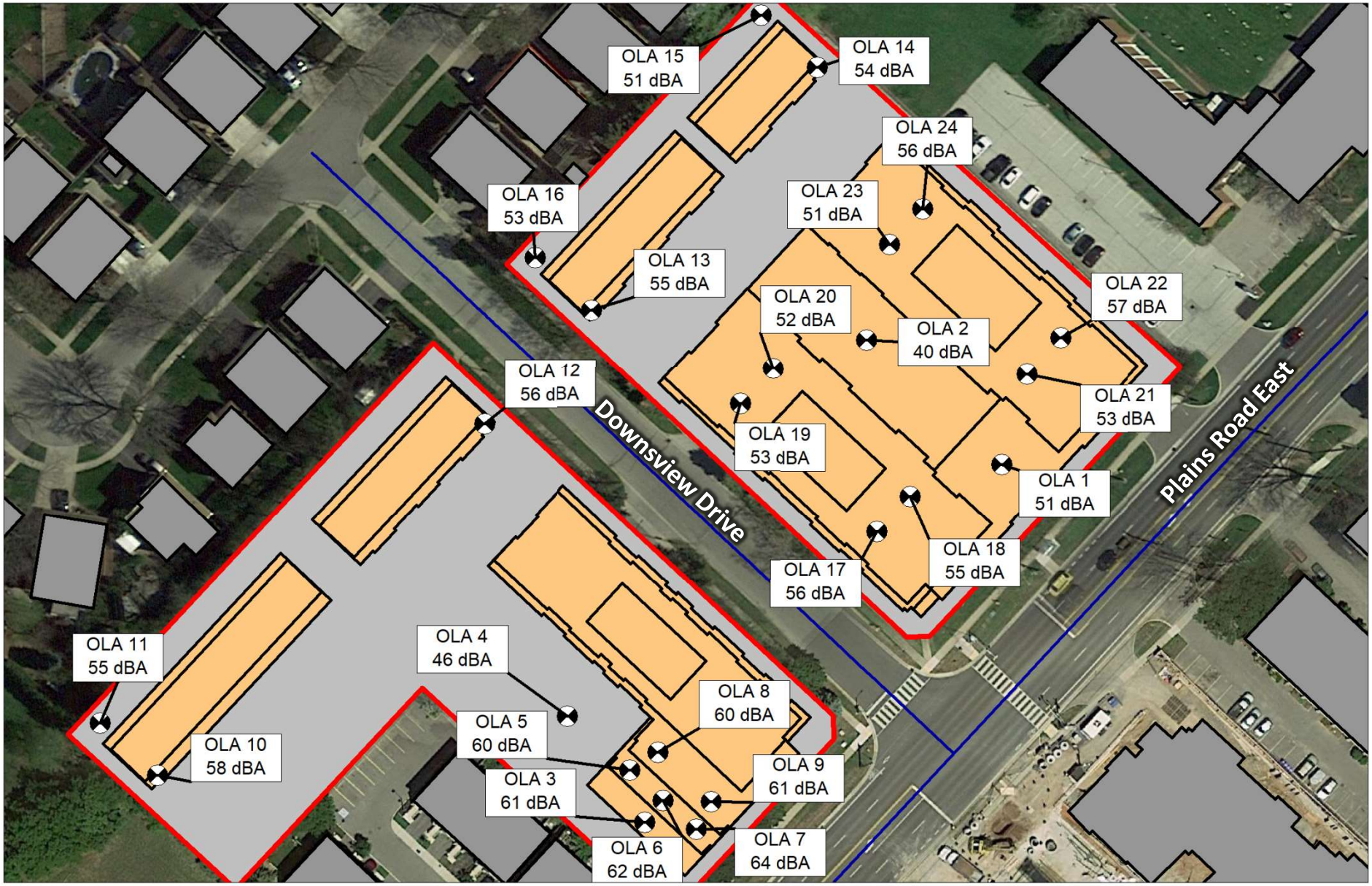
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1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **2**	
SITE PLAN		Project No. 241.30424.00000		



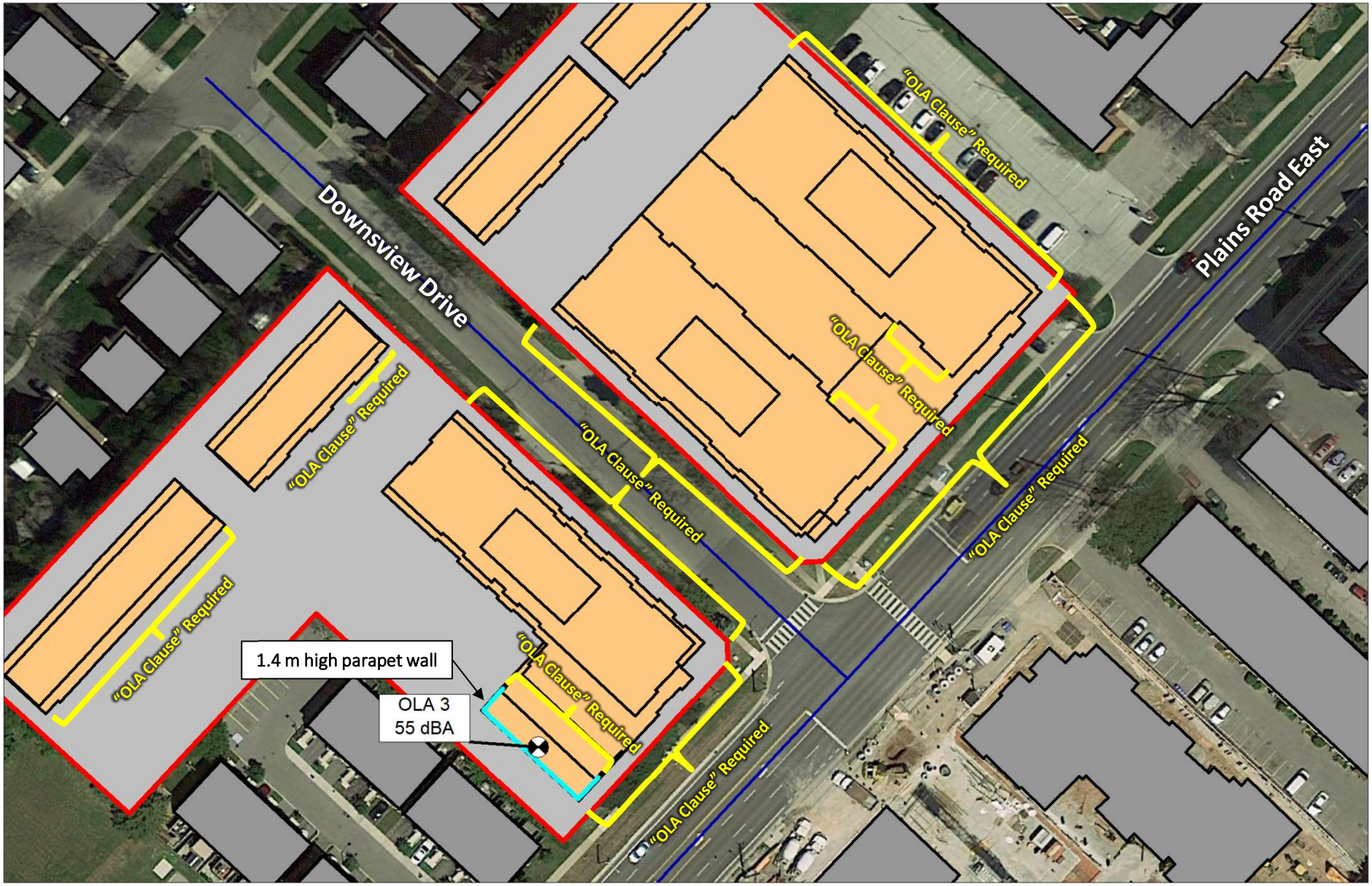
335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:1000	METRES	SLR global environmental solutions
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **3**	
FAÇADE SOUND LEVELS – ROADWAY – DAYTIME		Project No. 241.30438.00000		



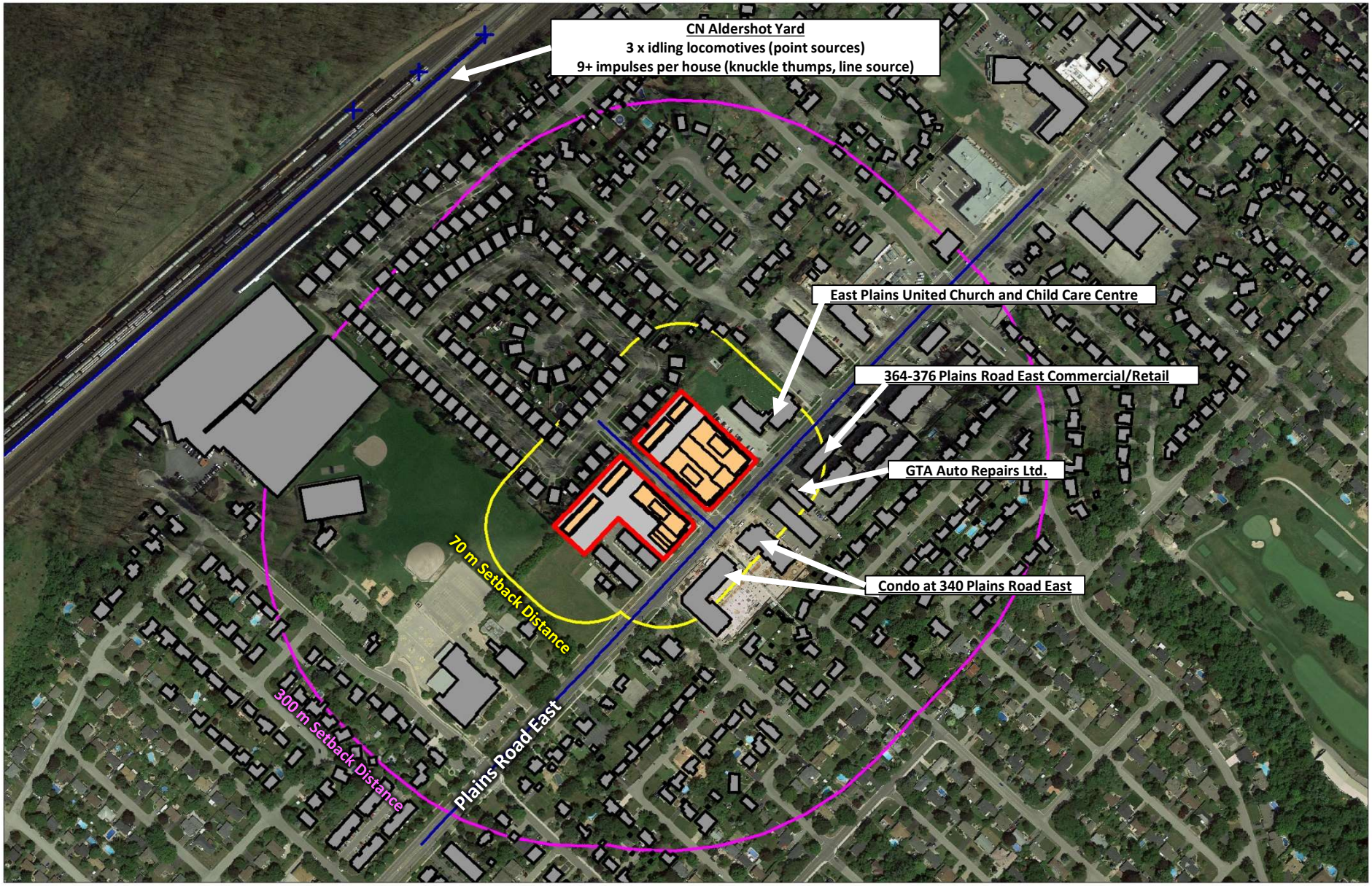
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1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **4**	
FAÇADE SOUND LEVELS – ROADWAY – NIGHT-TIME		Project No. 241.30438.00000		



335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:1000	METRES	SLR global environmental solutions
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **5**	
OUTDOOR LIVING AREA SOUND LEVELS – ROADWAY – DAYTIME		Project No. 241.30438.00000		



335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:1000	METRES	SLR global environmental solutions
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. 6	
TRANSPORTATION SOURCE MITIGATION AND OLA WARNING CLAUSE REQUIREMENTS		Project No. 241.30438.00000		



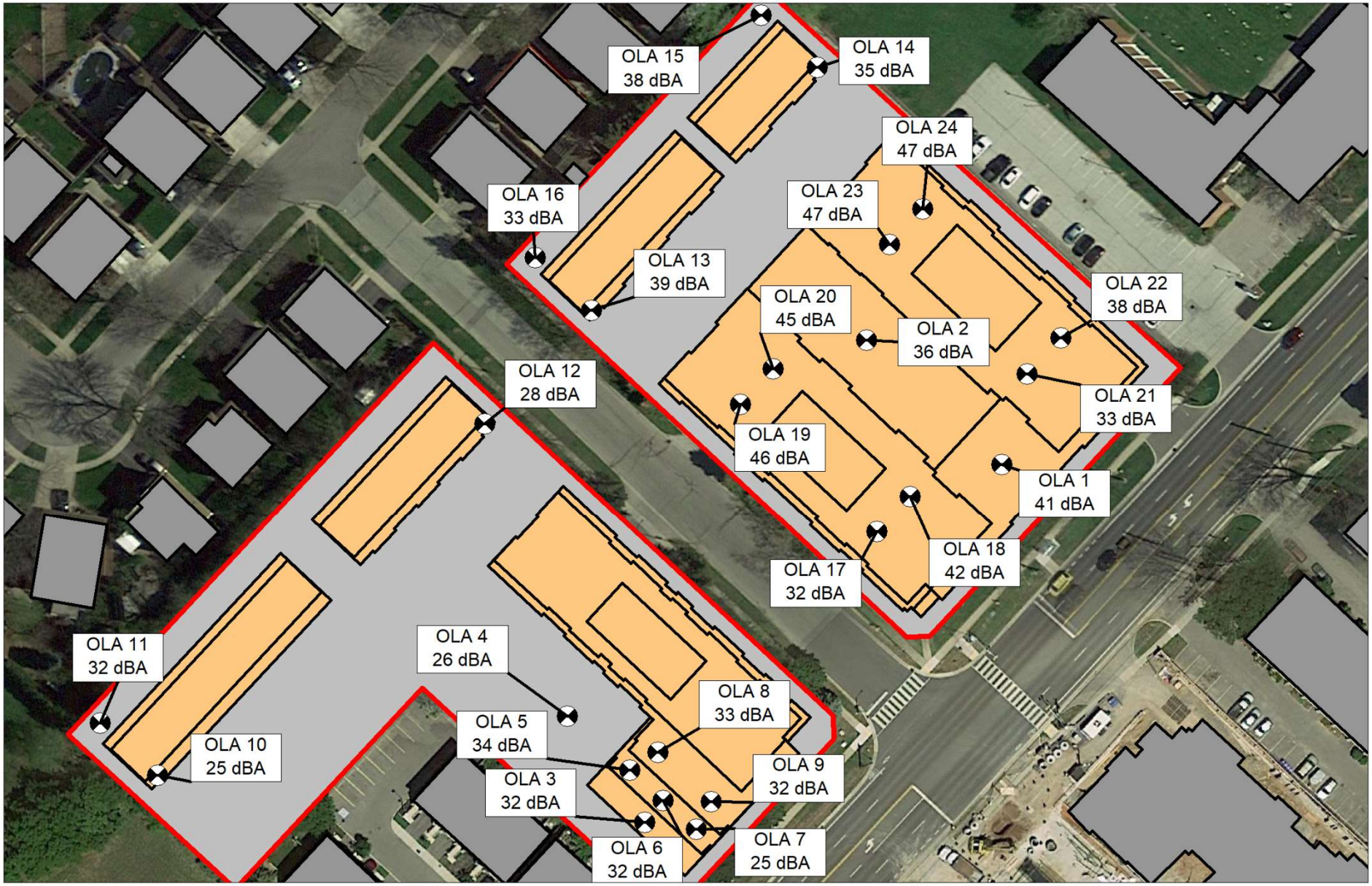
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1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **7**	
D-6 SETBACK DISTANCES & SURROUNDING STATIONARY SOURCE LOCATIONS		Project No. 241.30424.00000		



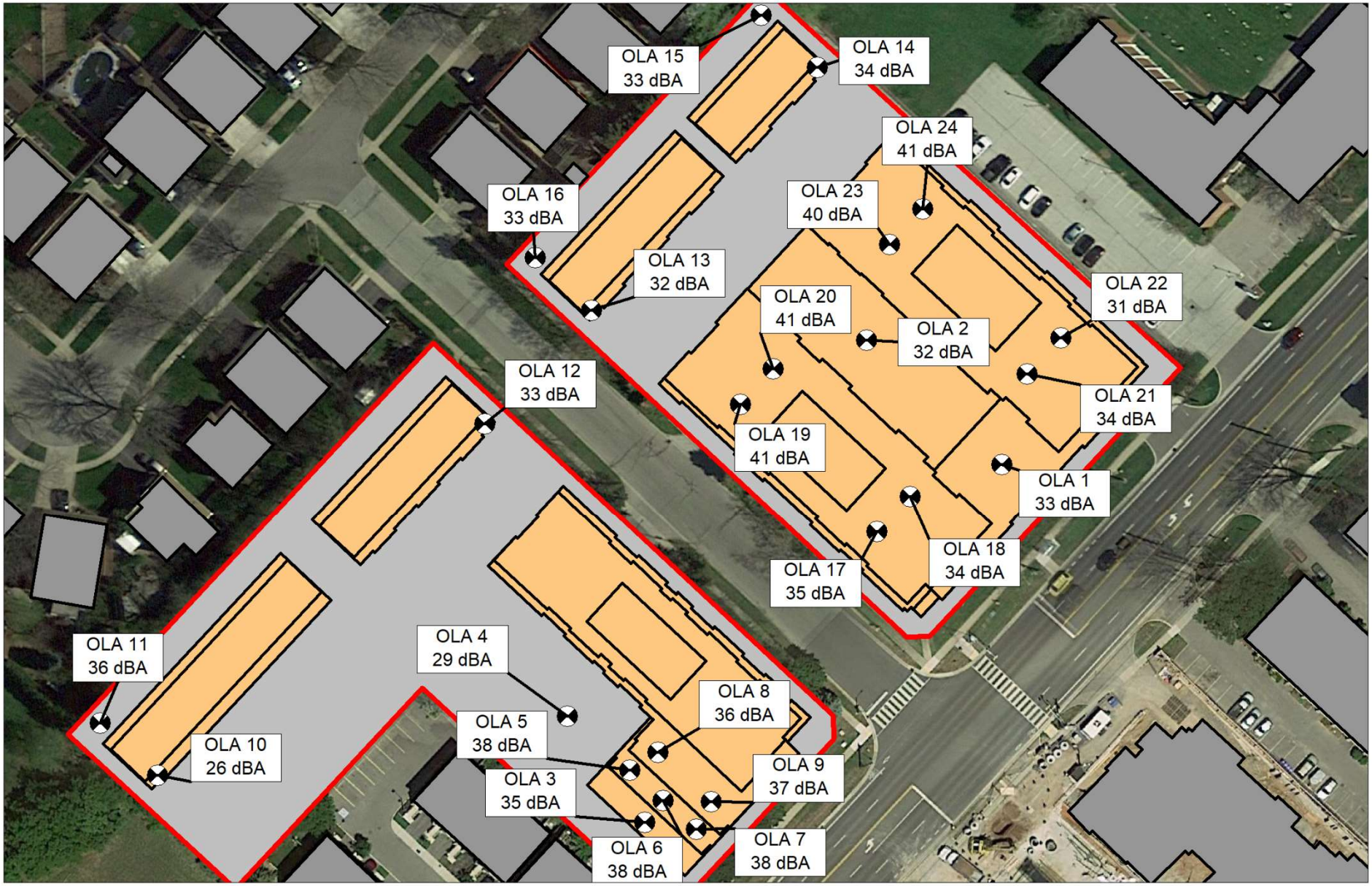
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1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **8**	
FAÇADE SOUND LEVELS – STATIONARY CONTINUOUS NOISE – DAYTIME/EVENING/NIGHT-TIME		Project No. 241.30424.00000		



335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:1000	METRES	SLR global environmental solutions
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **9**	
FAÇADE SOUND LEVELS – STATIONARY IMPULSIVE NOISE – DAYTIME/EVENING/NIGHT-TIME		Project No. 241.30424.00000		



335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:1000	METRES	SLR global environmental solutions
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022 Rev 1.0	Figure No. **10**	
OUTDOOR SOUND LEVELS – STATIONARY CONTINUOUS NOISE – DAYTIME/EVENING		Project No. 241.30424.00000		



335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:1000		METRES
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 10, 2022	Rev 1.0	Figure No. **11**
OUTDOOR SOUND LEVELS – STATIONARY IMPULSIVE NOISE – DAYTIME/EVENING		Project No. 241.30424.00000		

SLR global environmental solutions

Appendix A

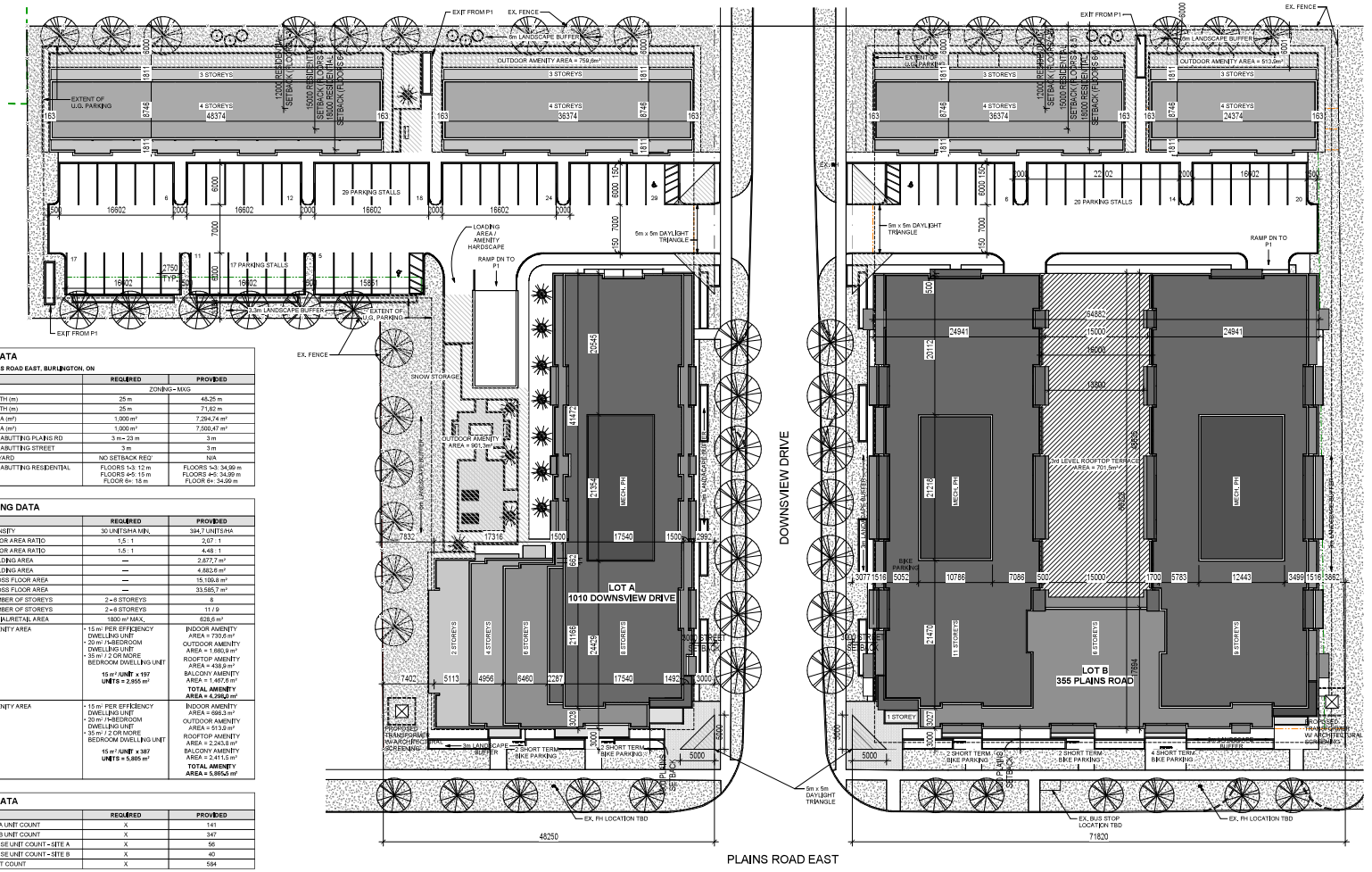
Development Drawings

Environmental Noise Assessment

335 Plains Holdings Inc. & 355 Plains Holdings Inc.

Burlington, ON

SLR Project No.: 241.30424.00000



1 SITE PLAN
1 : 300

SITE DATA

355 PLAINS ROAD EAST, BURLINGTON, ON

DATA		REQUIRED	PROVIDED
ZONING		ZONING - MXG	
LOT A WIDTH (m)		25 m	48.25 m
LOT B WIDTH (m)		25 m	71.82 m
LOT A AREA (m²)		1,000 m²	7,294.74 m²
LOT B AREA (m²)		1,000 m²	7,580.47 m²
SETBACKS	YARD ABUTTING PLAINS RD	3 m - 23 m	3 m
	YARD ABUTTING STREET	3 m	3 m
	SIDE YARD	NO SETBACK REQ'	N/A
	YARD ABUTTING RESIDENTIAL	FLOORS 1-3: 12 m FLOORS 4-5: 15 m FLOOR 6+: 18 m	FLOORS 1-3: 34.99 m FLOORS 4-5: 34.99 m FLOOR 6+: 34.99 m

BUILDING DATA

DATA	REQUIRED	PROVIDED
TOTAL DENSITY	30 UNITS/HA MIN.	394.7 UNITS/HA
LOT A FLOOR AREA RATIO	1.5 : 1	2.67 : 1
LOT B FLOOR AREA RATIO	1.5 : 1	4.48 : 1
LOT A BUILDING AREA	—	2,872.7 m²
LOT B BUILDING AREA	—	4,882.6 m²
LOT A GROSS FLOOR AREA	—	15,109.8 m²
LOT B GROSS FLOOR AREA	—	33,585.7 m²
LOT A NUMBER OF STOREYS	2 - 8 STOREYS	8
LOT B NUMBER OF STOREYS	2 - 8 STOREYS	11 / 9
COMMERCIAL/RETAIL AREA	1800 m² MAX.	628.6 m²
LOT A AMENITY AREA	• 15 m² PER EFFICIENCY DWELLING UNIT • 20 m² / 1-BEDROOM DWELLING UNIT • 35 m² / 2 OR MORE BEDROOM DWELLING UNIT **15 m² / UNIT x 197 UNITS = 2,955 m²**	INDOOR AMENITY AREA = 730.6 m² OUTDOOR AMENITY AREA = 1,660.9 m² ROOFTOP AMENITY AREA = 438.8 m² BALCONY AMENITY AREA = 1,407.6 m² **TOTAL AMENITY AREA = 4,298.0 m²**
LOT B AMENITY AREA	• 15 m² PER EFFICIENCY DWELLING UNIT • 20 m² / 1-BEDROOM DWELLING UNIT • 35 m² / 2 OR MORE BEDROOM DWELLING UNIT **15 m² / UNIT x 387 UNITS = 5,805 m²**	INDOOR AMENITY AREA = 686.3 m² OUTDOOR AMENITY AREA = 513.0 m² ROOFTOP AMENITY AREA = 2,243.8 m² BALCONY AMENITY AREA = 2,411.5 m² **TOTAL AMENITY AREA = 5,855.0 m²**

UNIT DATA

DATA	REQUIRED	PROVIDED
BUILDING A UNIT COUNT	X	141
BUILDING B UNIT COUNT	X	347
TOWNHOUSE UNIT COUNT - SITE A	X	56
TOWNHOUSE UNIT COUNT - SITE B	X	40
TOTAL UNIT COUNT	X	584

LANDSCAPING DATA

DATA	REQUIRED	PROVIDED
BUFFER ABUTTING STREET	3 m	3 m
BUFFER BUTTING RESIDENTIAL	6 m	6 m

VEHICLE PARKING DATA

DATA	REQUIRED	PROVIDED
RESIDENTIAL PARKING - BLDG A	1.25 / 197 units = 246	247 (+1)
B.F. PARKING (INCLD.)	3% = 7	8
RESIDENTIAL PARKING - BLDG B	1.25 / 387 units = 484	476
B.F. PARKING (INCLD.)	3% = 14	15
COMMERCIAL PARKING - BLDG A	3.5 x 4.40 = 15	15
COMMERCIAL PARKING - BLDG B	3.5 x 3.42 = 12	12
TOTAL	757	750 (-7)

BICYCLE PARKING DATA

DATA	REQUIRED	PROVIDED
SHORT TERM BICYCLE PARKING - BA	0.X / units	21
SHORT TERM BICYCLE PARKING - BB	0.X / units	31
COMMERCIAL BICYCLE PARKING	2units + 1/1000m² = 8 + 1	12
	TOTAL	64

Project North

True North

GENERAL NOTES

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No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
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Drawn by: Author
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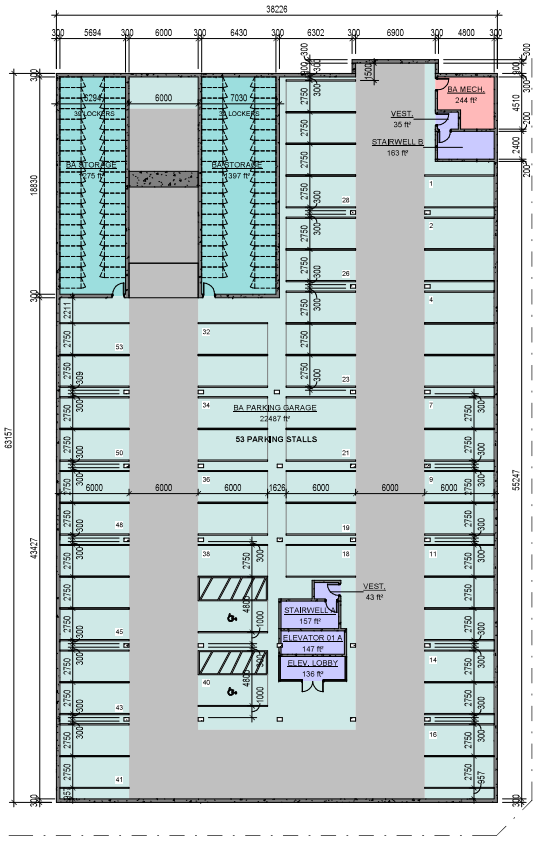
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

SITE PLAN

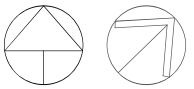
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Drawing No. D1.1
Revision No.

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1 FLOOR PLAN LEVEL P2 BUILDING A
1 : 200



GENERAL NOTES

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No.	Date	Revision

srm ARCHITECTS INC.

Project No.	22008
Project Date	
Drawn by	TJM
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355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

P2 LEVEL FLOOR PLANS BUILDING A

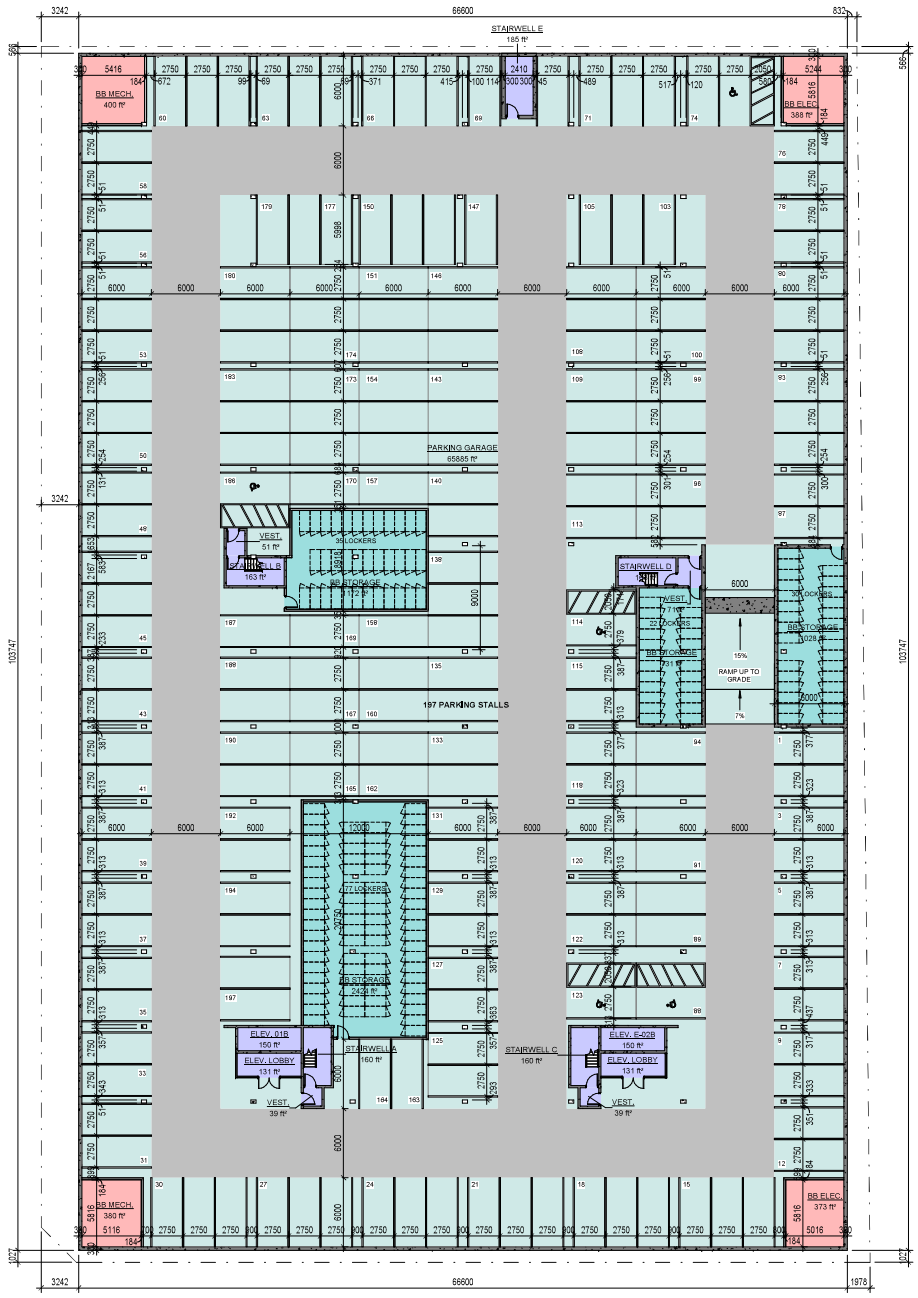
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Drawing No. D2.0a

Revision No.

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1 FLOOR PLAN LEVEL P2
1 : 200

Project North

True North

GENERAL NOTES

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No.	Date	Revision

srm ARCHITECTS INC.

Project No.	22008
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355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

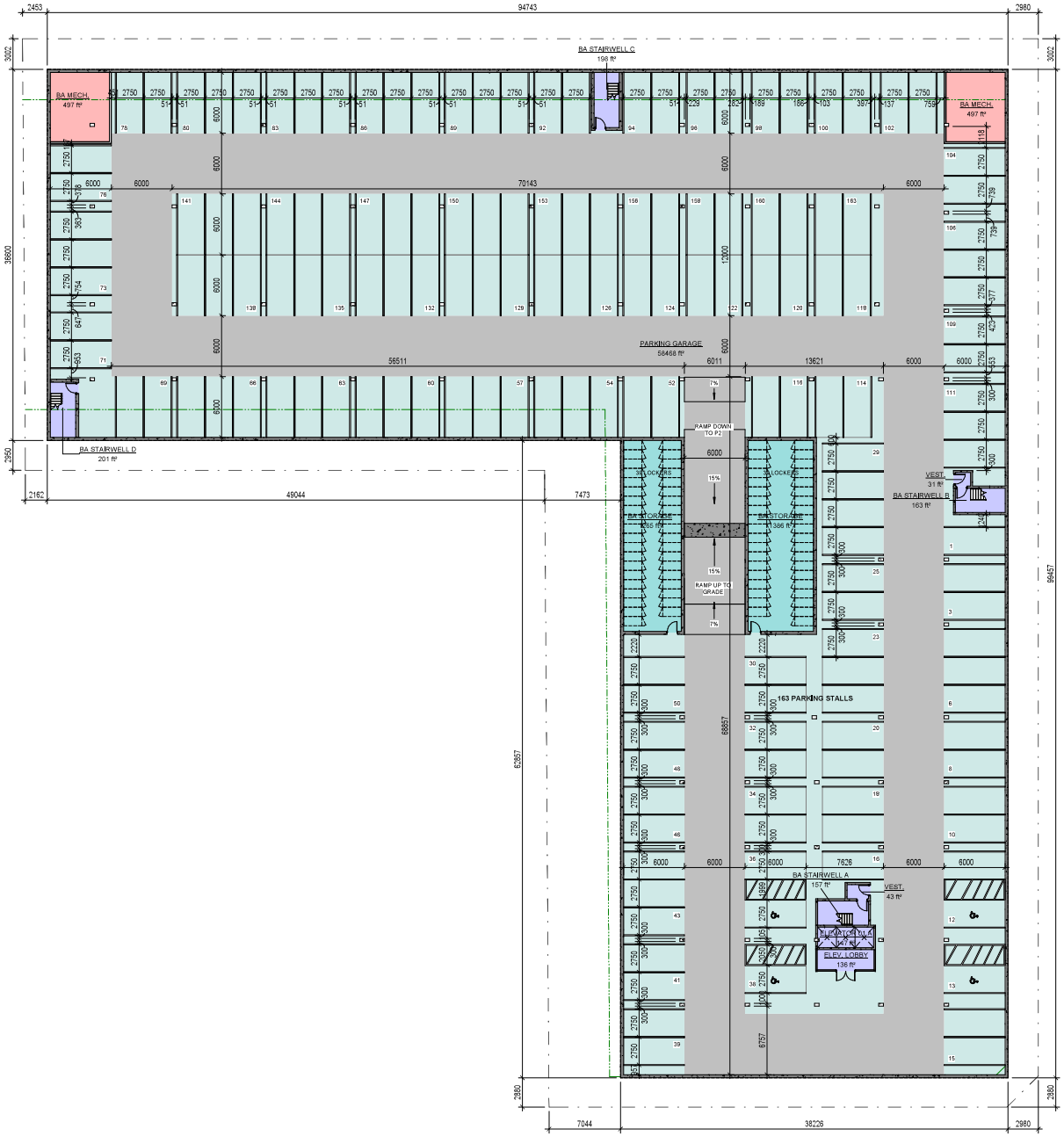
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Drawing No. **D2.0b** Revision No.

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1 FLOOR PLAN LEVEL P1 BUILDING A
1 : 200

Project North

True North

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No.	Date	Revision

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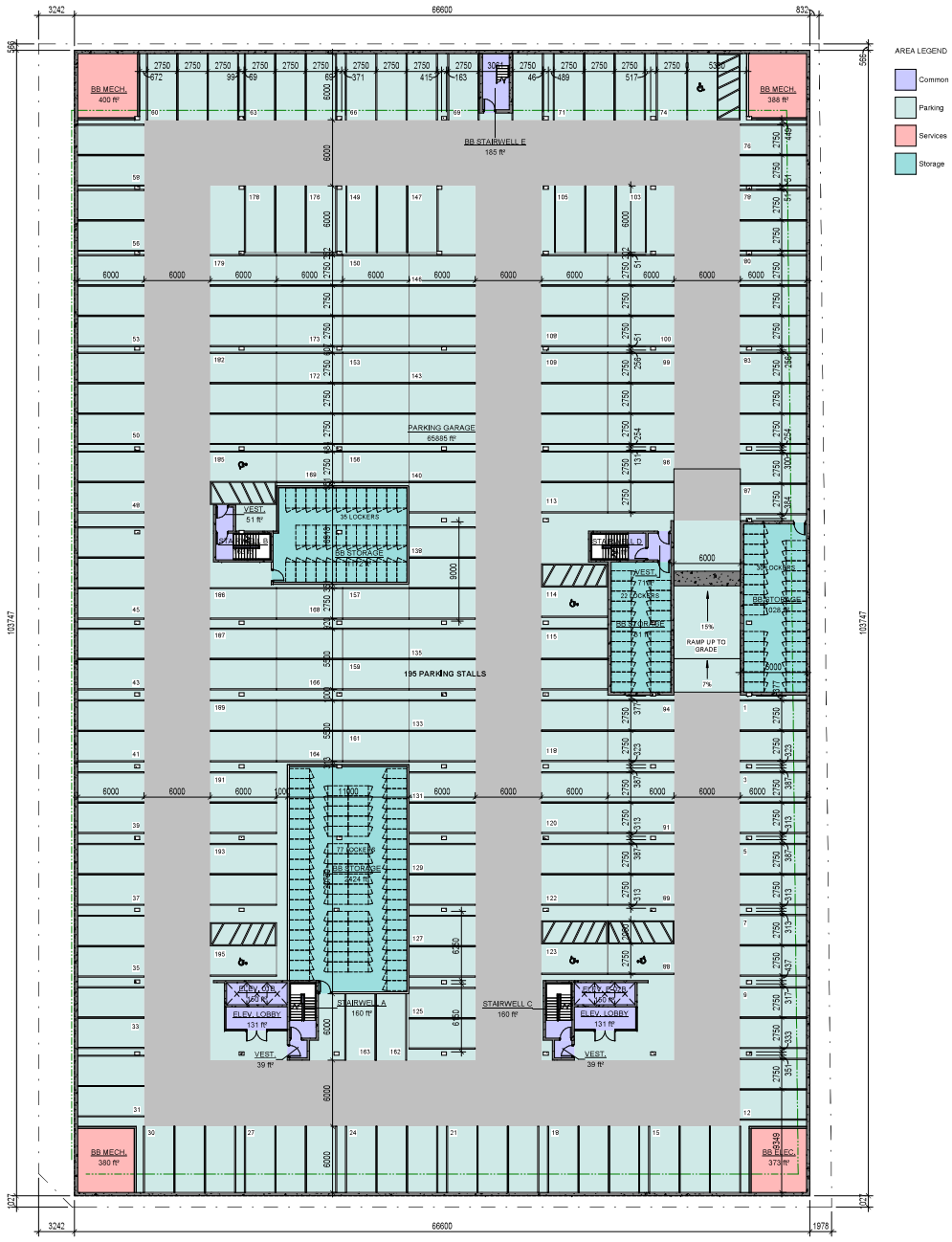
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

P1 LEVEL FLOOR PLAN BUILDING A

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Drawing No.	Revision No.

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1 FLOOR PLAN LEVEL P1
1 : 200

Project North

True North

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srm ARCHITECTS INC.

Project No.	22008
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355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

P1 LEVEL FLOOR PLAN BUILDING B

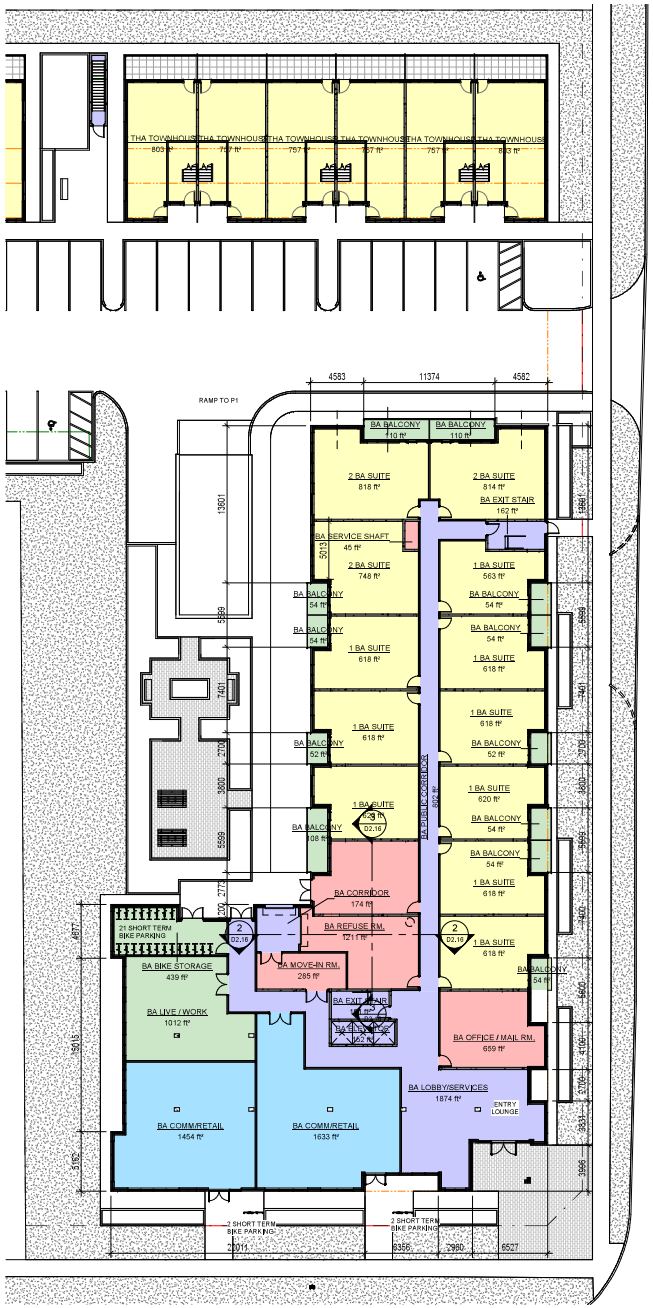
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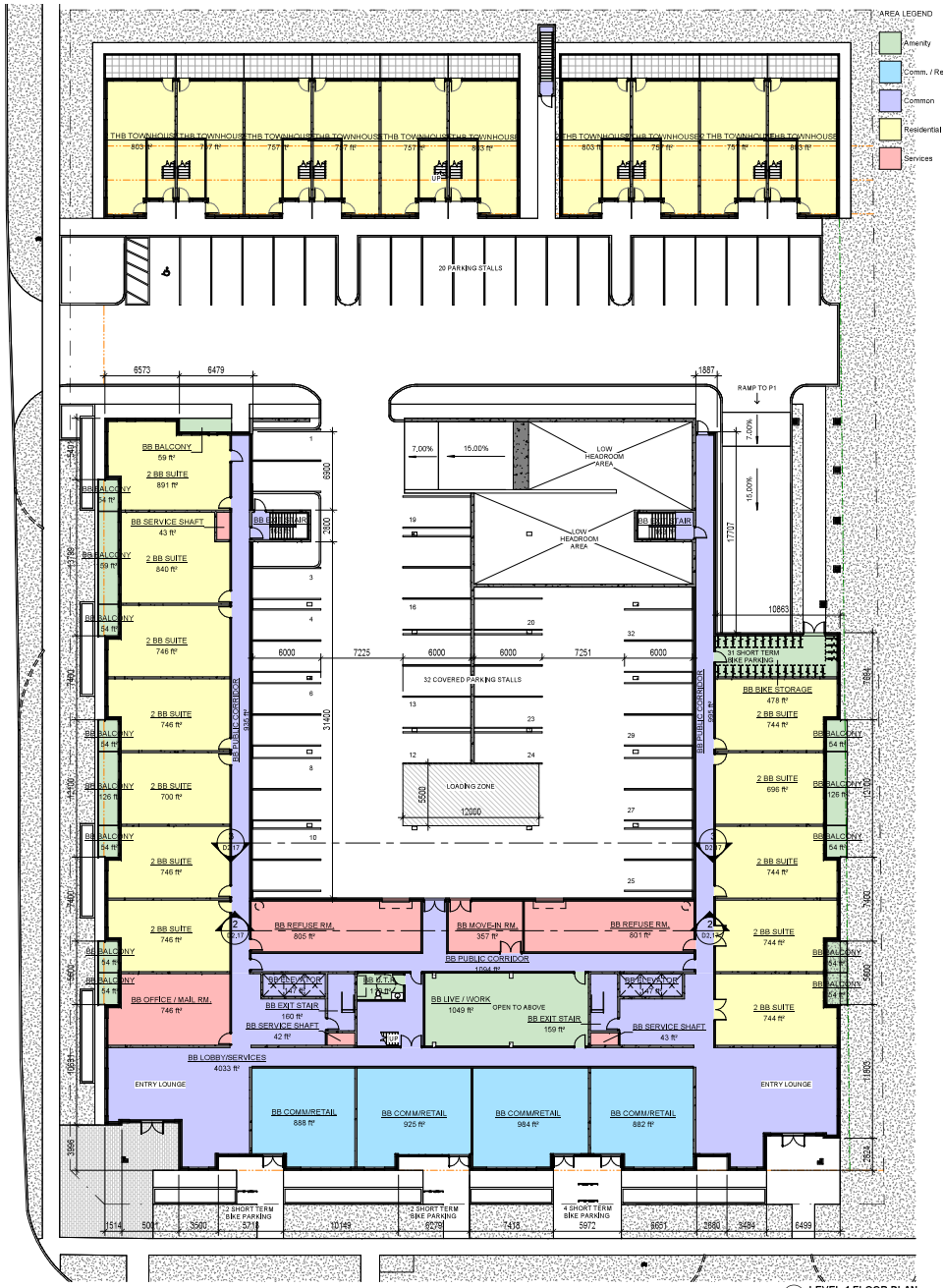
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1 LEVEL 1 FLOOR PLAN
1 : 200

Project North

True North

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AREA BREAKDOWN - LEVEL 1

Area	Area - Use	Count
BA		
2263 ft²	Amenity	14
3087 ft²	Comm. / Retail	2
3422 ft²	Common	7
7891 ft²	Residential	12
2199 ft²	Services	4
18863 ft²		
BB		
2659 ft²	Amenity	17
3679 ft²	Comm. / Retail	4
8102 ft²	Common	11
9088 ft²	Residential	12
2837 ft²	Services	7
26365 ft²		
THA		
10782 ft²	Residential	14
10782 ft²		
THB		
7755 ft²	Residential	10
7755 ft²		

LOCKER TOTALS	
BUILDING A	156
BUILDING B	329

No.	Date	Revision

srm ARCHITECTS INC.

Project No	22008
Project Date	
Drawn by	TJM
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355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

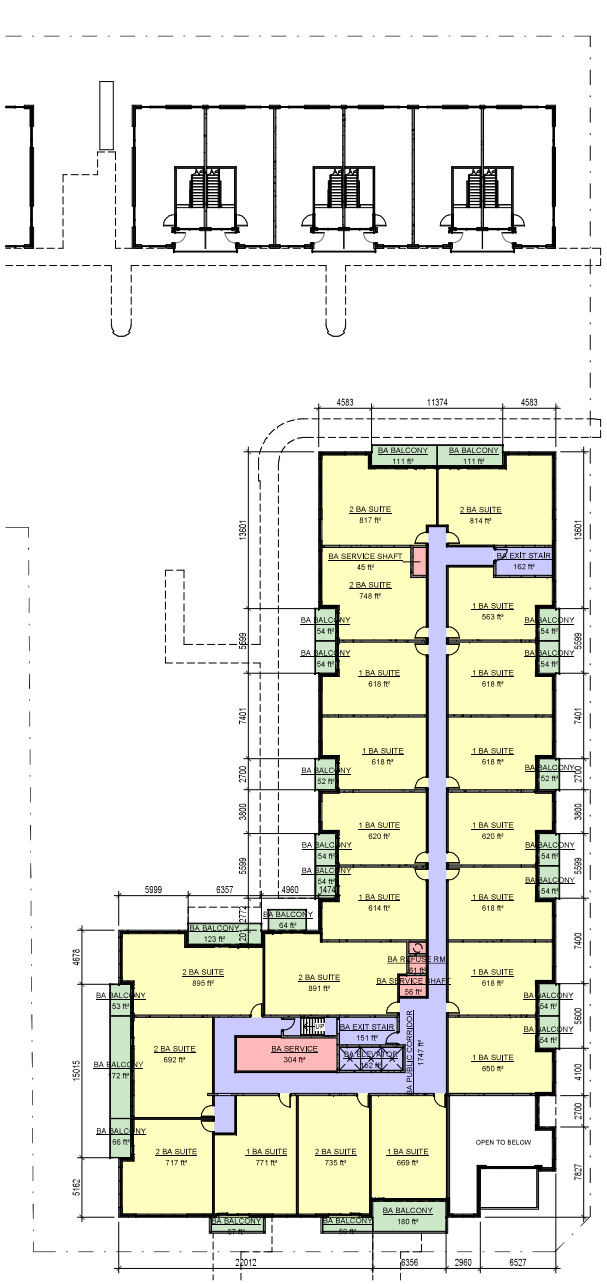
LEVEL 1 FLOOR PLAN

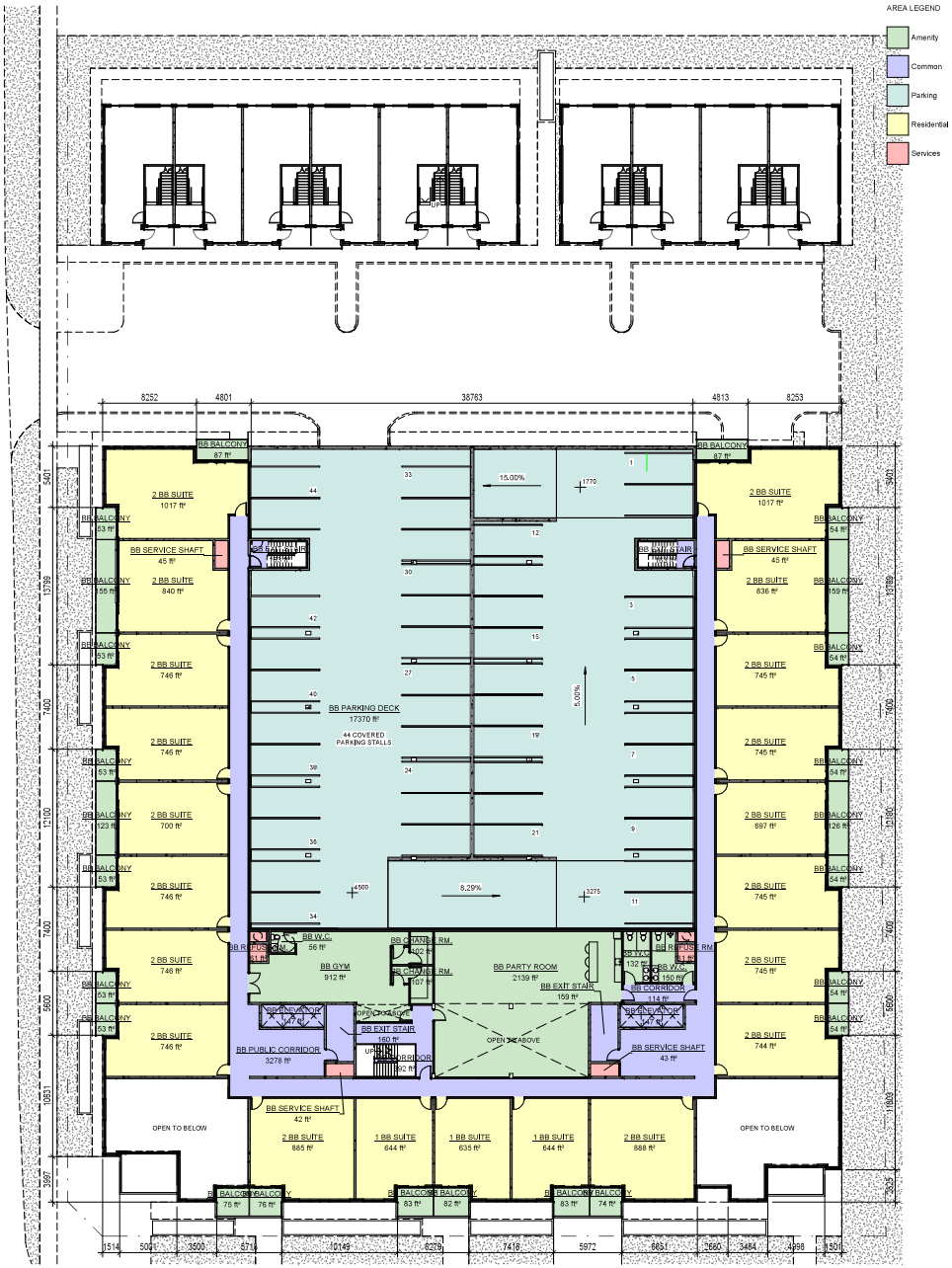
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1 LEVEL 2 FLOOR PLAN
1 : 200

Project North

True North

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AREA BREAKDOWN - LEVEL 2

Area	Area - Use	Count
BA		
1651 ft²	Amenity	22
2213 ft²	Common	4
14523 ft²	Residential	21
466 ft²	Services	4
18853 ft²		
BB		
5454 ft²	Amenity	31
4722 ft²	Common	9
17370 ft²	Parking	1
16259 ft²	Residential	21
297 ft²	Services	6
44103 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: TJM
Checked by: MYV
File Date / Time: 2022-02-08 1:37:08 PM

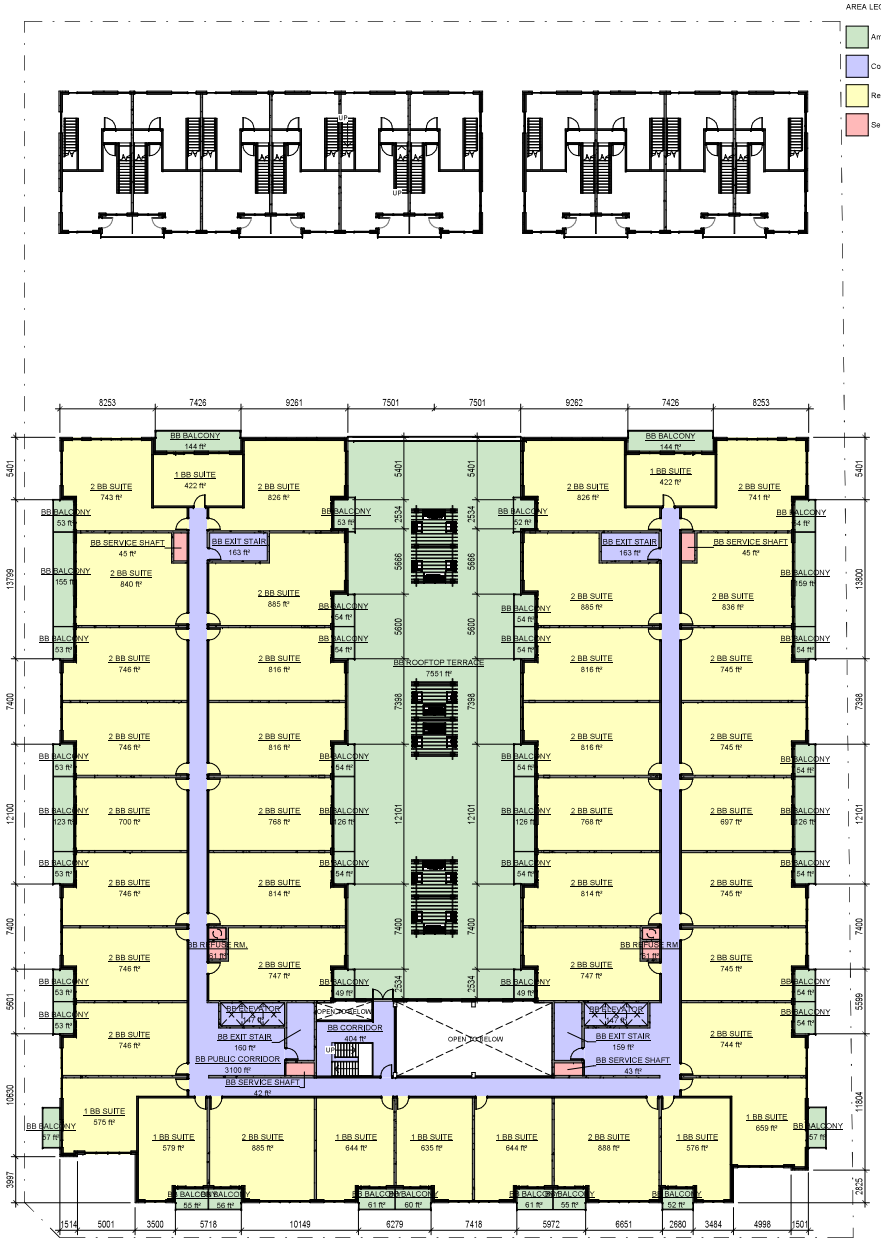
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

LEVEL 2 FLOOR PLAN

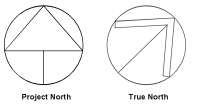
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Drawing No.: D2.3
Revision No.:

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1 LEVEL 3 FLOOR PLAN
1 : 200



GENERAL NOTES

1. **DO NOT SCALE DRAWINGS.** WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
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AREA BREAKDOWN - LEVEL 3

Area	Area - Use	Count
BA		
6661 ft²	Amenity	26
1902 ft²	Common	4
10536 ft²	Residential	16
106 ft²	Services	2
19206 ft²		
BB		
10449 ft²	Amenity	42
4442 ft²	Common	8
30283 ft²	Residential	41
297 ft²	Services	6
45472 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

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Drawn by: TJM
Checked by: MYV
File Date / Time: 2022-02-08 1:37:26 PM

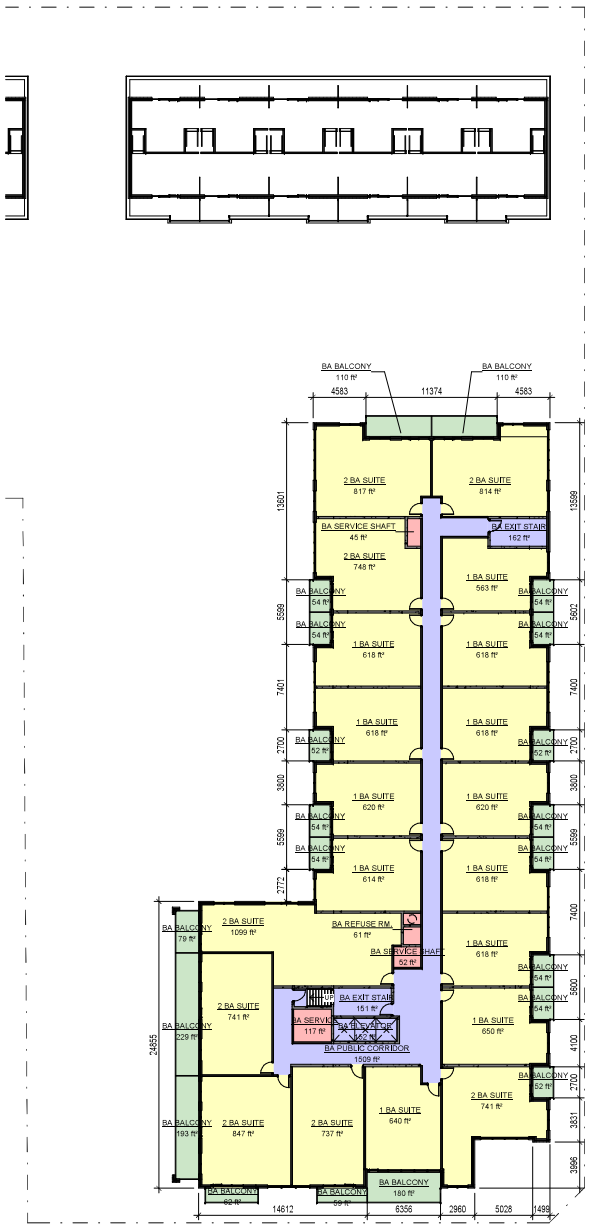
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

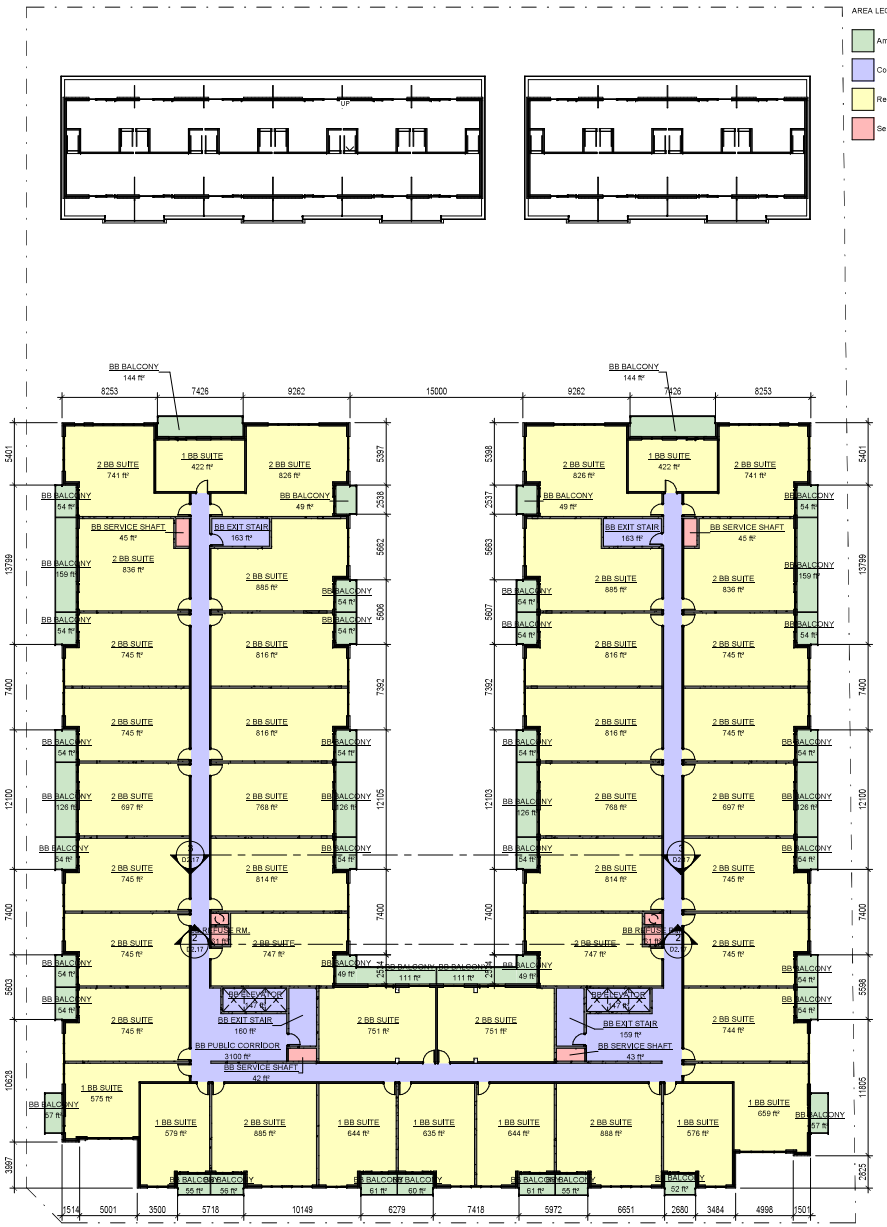
LEVEL 3 FLOOR PLAN

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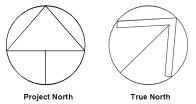
Drawing No.: D2.4
Revision No.:

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1 LEVEL 4 FLOOR PLAN
1 : 200



GENERAL NOTES

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AREA BREAKDOWN - LEVEL 4

Area	Area - Use	Count
BA		
1721 ft²	Amenity	21
1975 ft²	Common	4
13961 ft²	Residential	20
275 ft²	Services	4
17932 ft²		
BB		
3126 ft²	Amenity	43
4039 ft²	Common	7
31771 ft²	Residential	43
297 ft²	Services	6
39233 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: TJM
Checked by: MYV
File Date / Time: 2022-02-08 1:37:33 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

LEVEL 4 FLOOR PLAN

Drawing Scale: 1 : 200
Status:

Drawing No. D2.5 Revision No.

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1 LEVEL 5 FLOOR PLAN
1 : 200

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Project North

True North

GENERAL NOTES

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AREA BREAKDOWN - LEVEL 5

Area	Area - Use	Count
BA		
2840 ft²	**Amenity**	**20**
1720 ft²	**Common**	**4**
13043 ft²	**Residential**	**19**
162 ft²	**Services**	**3**
17764 ft²		
BB		
3127 ft²	**Amenity**	**43**
4039 ft²	**Common**	**7**
31771 ft²	**Residential**	**43**
297 ft²	**Services**	**6**
39234 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

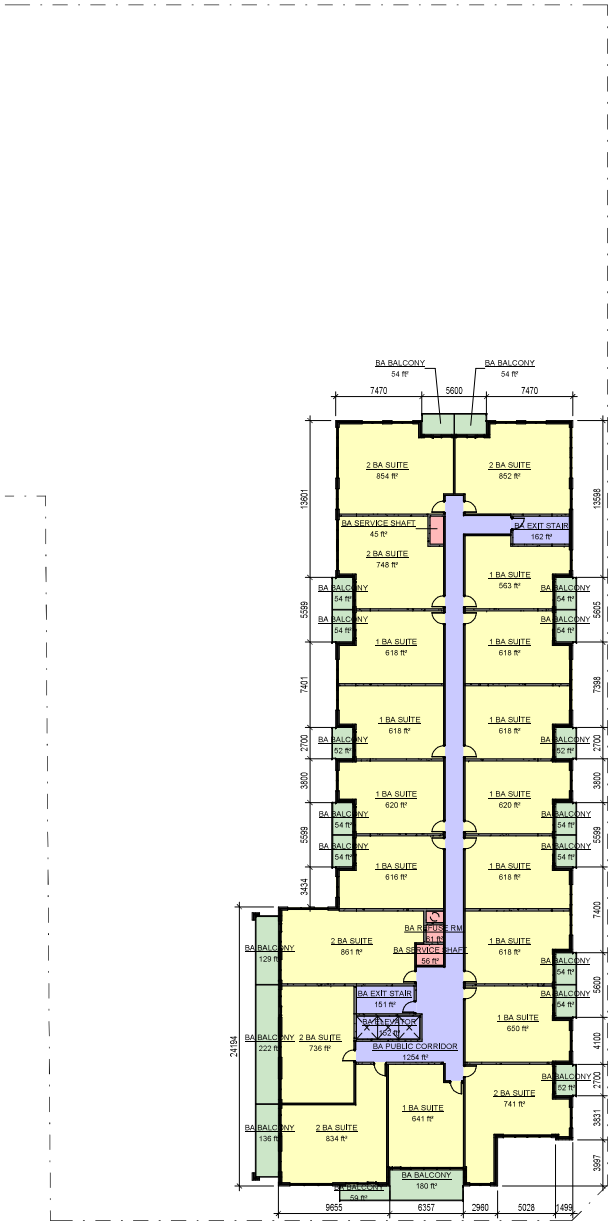
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Project Date:
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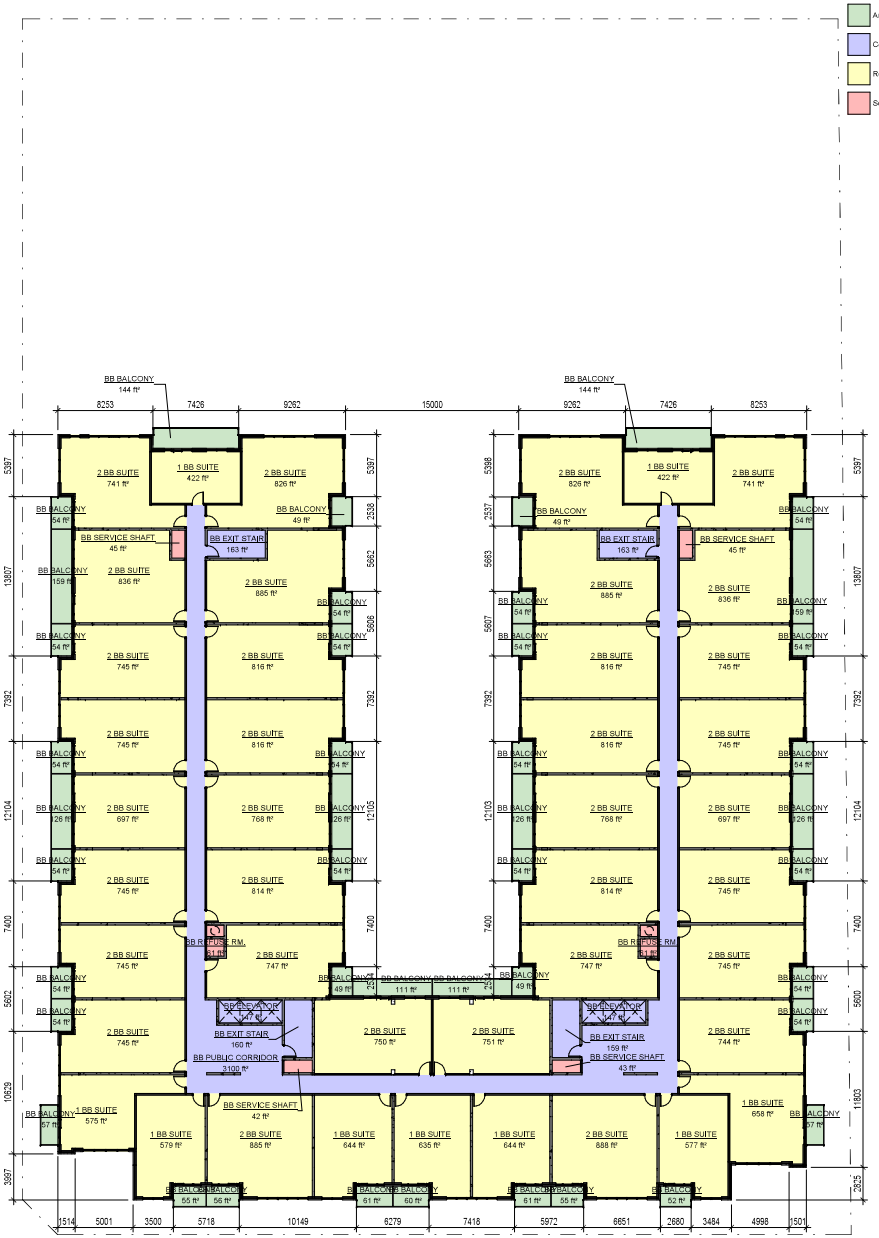
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

LEVEL 5 FLOOR PLAN

Drawing Scale: 1 : 200
Status:

Drawing No.: D2.6
Revision No.:





AREA LEGEND

- Amenity
- Common
- Residential
- Services

1 LEVEL 6 FLOOR PLAN
1 : 200

Project North

True North

GENERAL NOTES

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AREA BREAKDOWN - LEVEL 6

Area	Area - Use	Count
BA		
1533 ft²	Amenity	20
1720 ft²	Common	4
13043 ft²	Residential	19
162 ft²	Services	3
16458 ft²		
BB		
3128 ft²	Amenity	43
4039 ft²	Common	7
31770 ft²	Residential	43
297 ft²	Services	6
39234 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: TJM
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File Date / Time: 2022-02-08 1:37:45 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

LEVEL 6 FLOOR PLAN

Drawing Scale: 1 : 200
Status:

Drawing No.: D2.7
Revision No.:

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1 LEVEL 7 FLOOR PLAN
1 : 200

GENERAL NOTES

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AREA BREAKDOWN - LEVEL 7

Area	Area - Use	Count
BA		
3274 ft²	Amenity	17
1661 ft²	Common	4
9530 ft²	Residential	17
106 ft²	Services	2
14571 ft²		
BB		
5929 ft²	Amenity	37
3557 ft²	Common	8
25237 ft²	Residential	36
302 ft²	Services	6
35026 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

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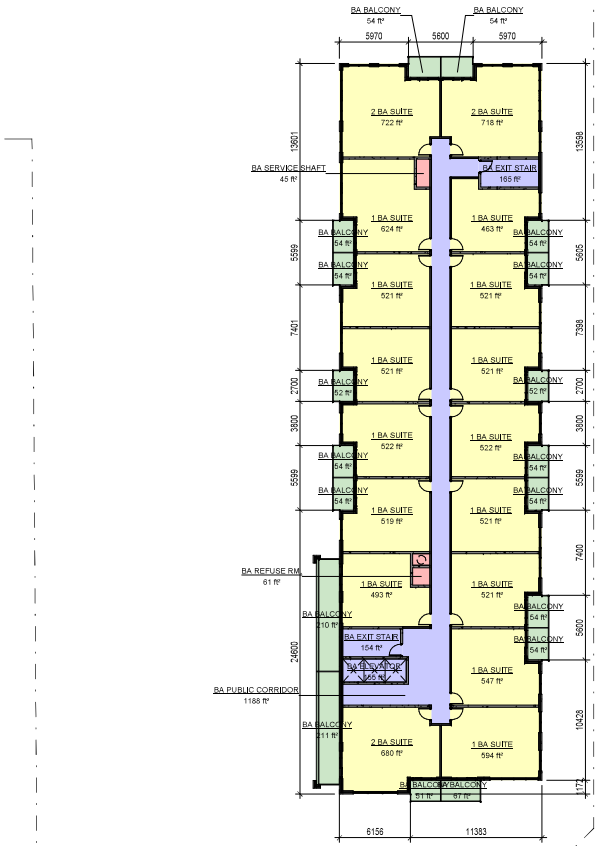
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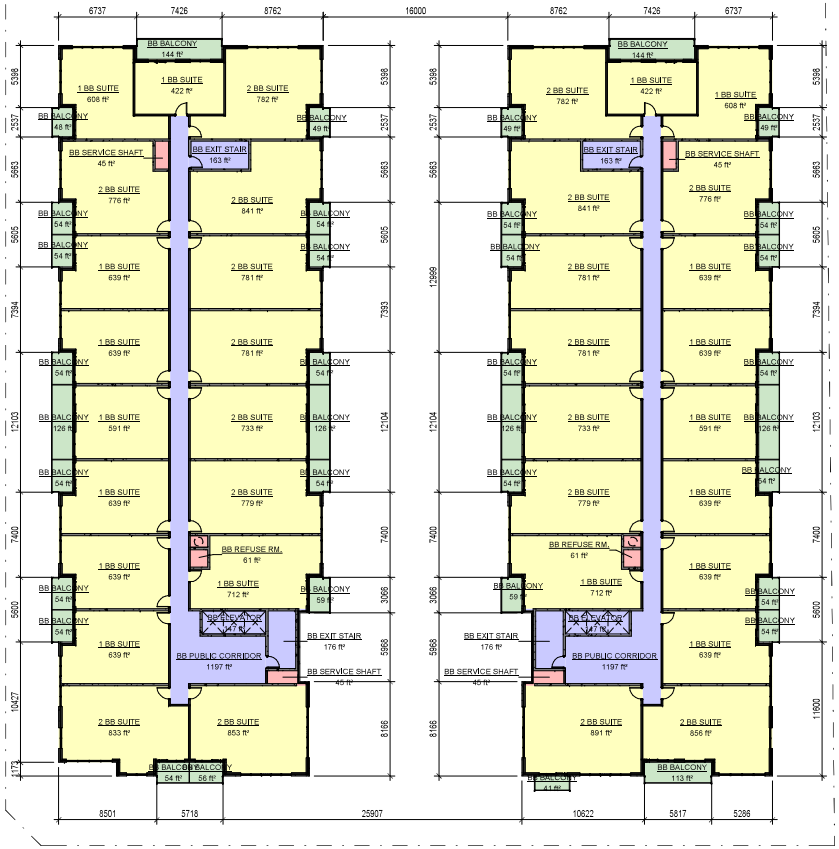
LEVEL 7 FLOOR PLAN

Drawing Scale: 1 : 200
Status:

Drawing No.: D2.8
Revision No.:

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1 LEVEL 8 FLOOR PLAN
1 : 200

AREA LEGEND

- Amenity
- Common
- Residential
- Services

Project North

True North

GENERAL NOTES

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AREA BREAKDOWN - LEVEL 8

Area	Area - Use	Count
BA		
1295 ft²	**Amenity**	**18**
1661 ft²	**Common**	**4**
9530 ft²	**Residential**	**17**
106 ft²	**Services**	**2**
12592 ft²		
BB		
2455 ft²	**Amenity**	**36**
3365 ft²	**Common**	**8**
25432 ft²	**Residential**	**36**
302 ft²	**Services**	**6**
31554 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: TJM
Checked by: MYV
File Date / Time: 2022-02-08 1:38:03 PM

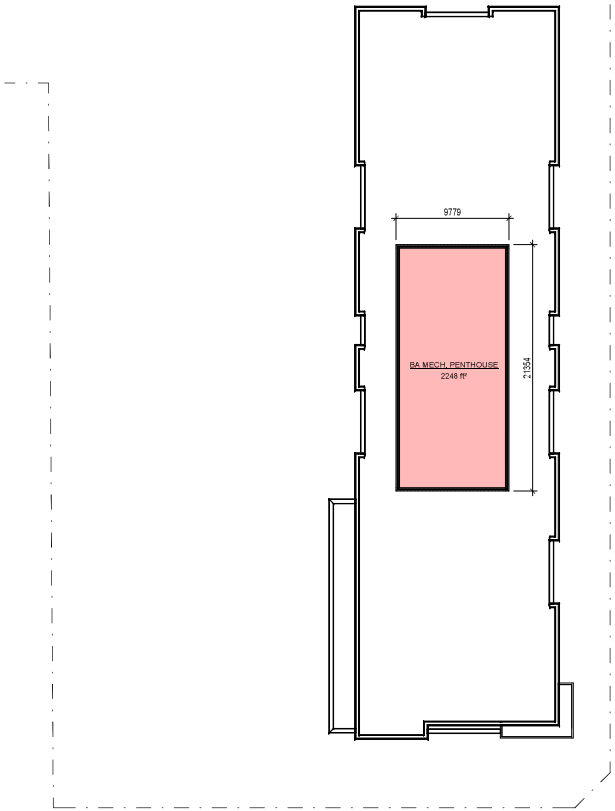
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

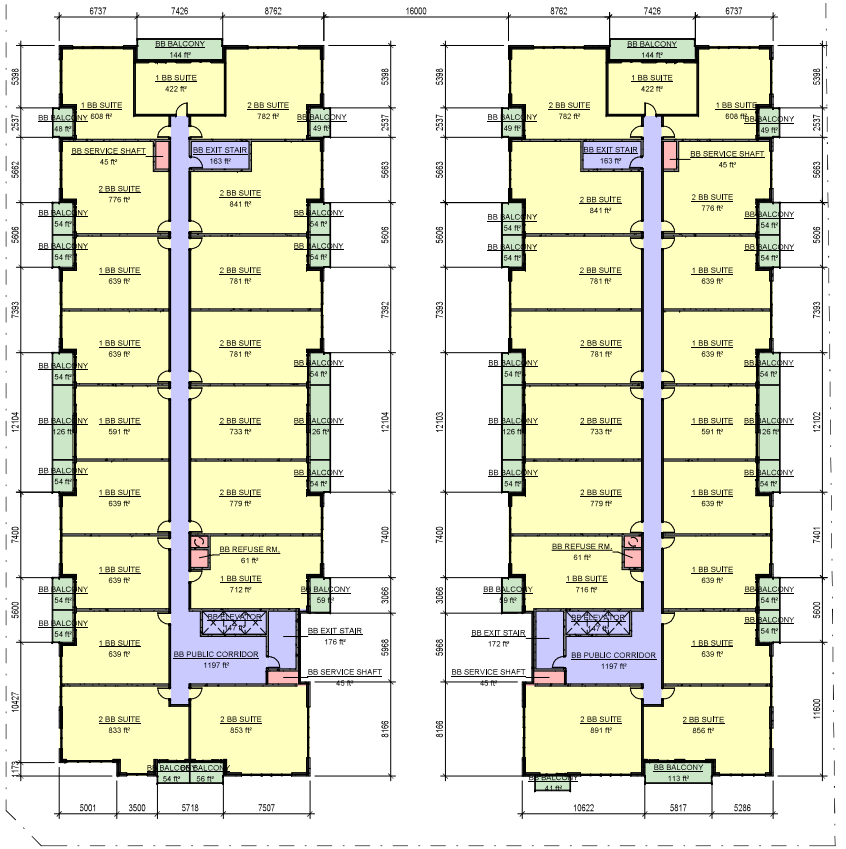
LEVEL 8 FLOOR PLAN

Drawing Scale: 1 : 200
Status:

Drawing No.: D2.9
Revision No.:

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1 LEVEL 9 FLOOR PLAN
1 : 200

AREA LEGEND

- Amenity
- Common
- Residential
- Services

Project North

True North

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AREA BREAKDOWN - LEVEL 9

Area	Area - Use	Count
BA		
2248 ft²	Services	1
2248 ft²		
BB		
2456 ft²	Amenity	36
3361 ft²	Common	8
25436 ft²	Residential	36
302 ft²	Services	6
31554 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

Project No	22008
Project Date	
Drawn by	TJM
Checked by	TJM
File Date / Time	2022-02-08 1:38:08 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

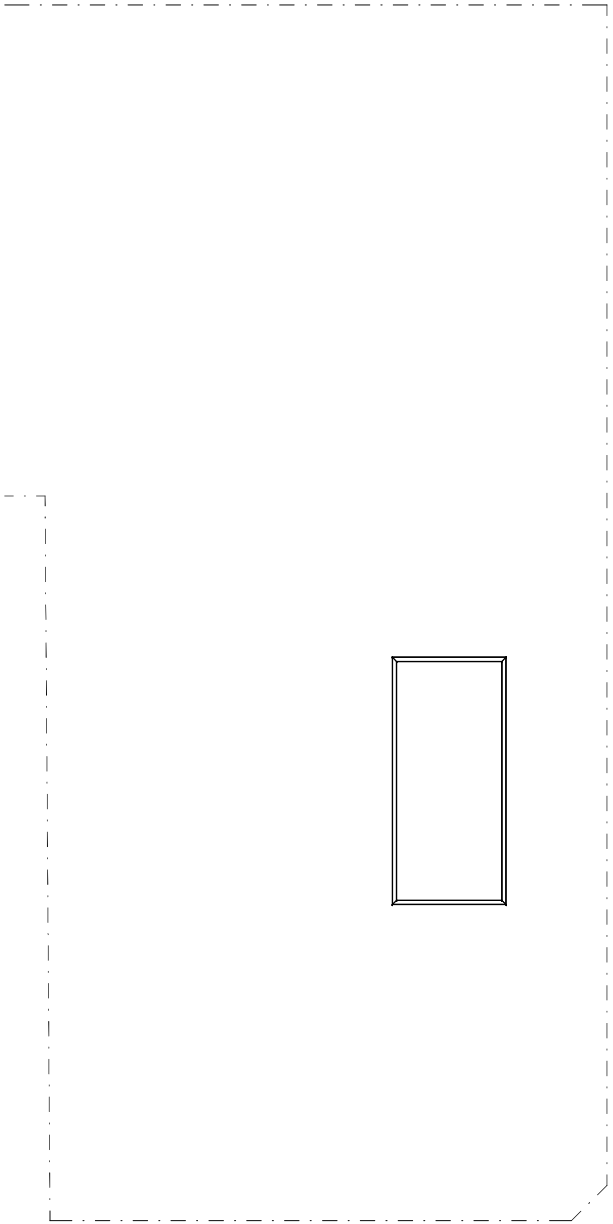
LEVEL 9 FLOOR PLAN

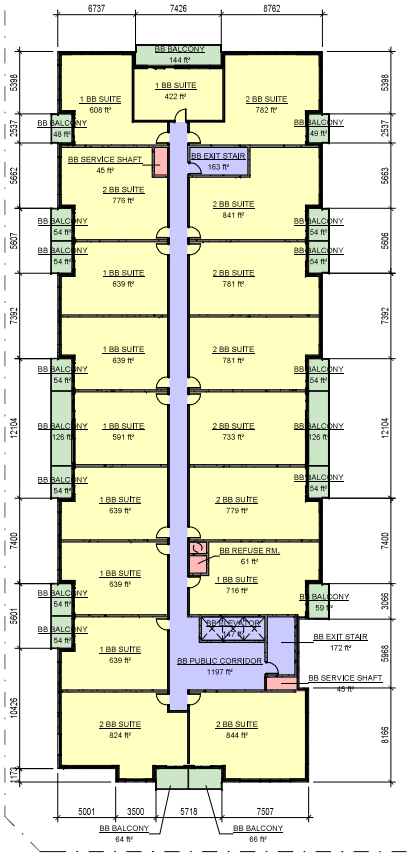
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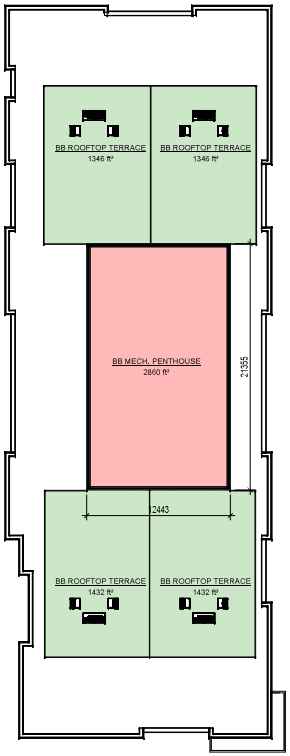
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Drawing No. D2.10 Revision No.

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1 LEVEL 10 FLOOR PLAN
1 : 200

AREA LEGEND

- Amenity
- Common
- Residential
- Services

Project North

True North

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AREA BREAKDOWN - LEVEL 10

Area	Area - Use	Count
BB		
6779 ft²	Amenity	22
1679 ft²	Common	4
12670 ft²	Residential	18
3011 ft²	Services	4
24139 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: TJM
Checked by: MYV
File Date / Time: 2022-02-08 1:38:17 PM

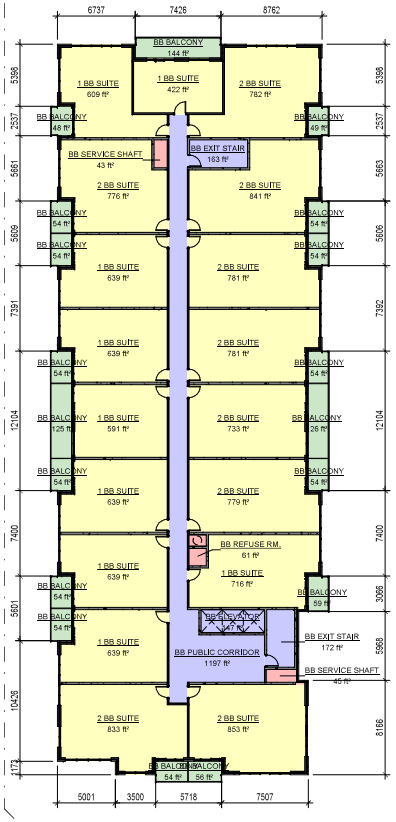
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

LEVEL 10 FLOOR PLAN

Drawing Scale: 1 : 200
Status:

Drawing No.: D2.11
Revision No.:

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1 LEVEL 11 FLOOR PLAN
1 : 200

AREA LEGEND

- Amenity
- Common
- Residential
- Services

Project North

True North

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AREA BREAKDOWN - LEVEL 11

Area	Area - Use	Count
BB		
1203 ft²	**Amenity**	**18**
1679 ft²	**Common**	**4**
12690 ft²	**Residential**	**18**
149 ft²	**Services**	**3**
15721 ft²		

No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: TJM
Checked by: MYV
Plot Date / Time: 2022-02-08 1:38:21 PM

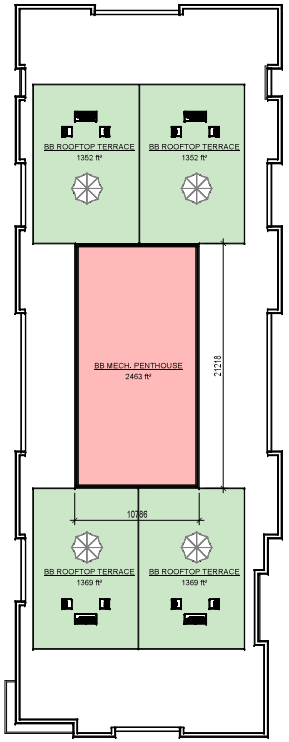
355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

LEVEL 11 FLOOR PLAN

Drawing Scale: 1 : 200
Status:

Drawing No.: **D2.12** Revision No.:

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AREA LEGEND

- Amenity
- Services

GENERAL NOTES

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srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: Author
Checked by: Checker
Plot Date / Time: 2022-02-08 1:38:28 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

MECH. PH FLOOR PLAN

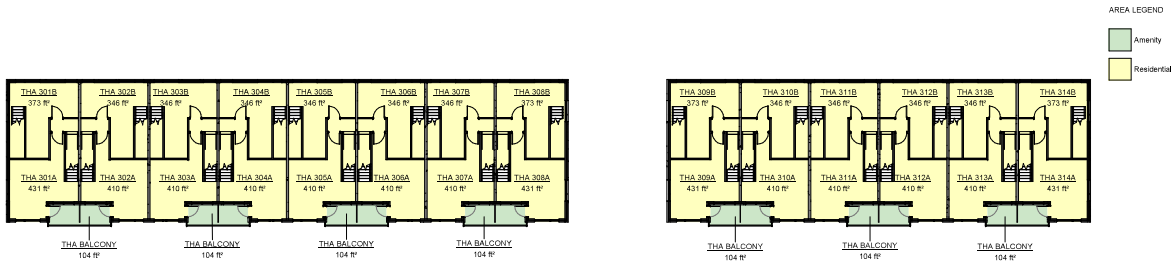
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Status:

Drawing No. D2.13 Revision No.

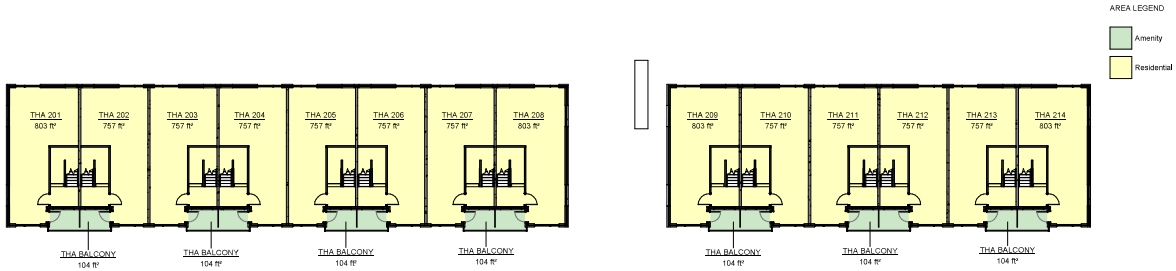
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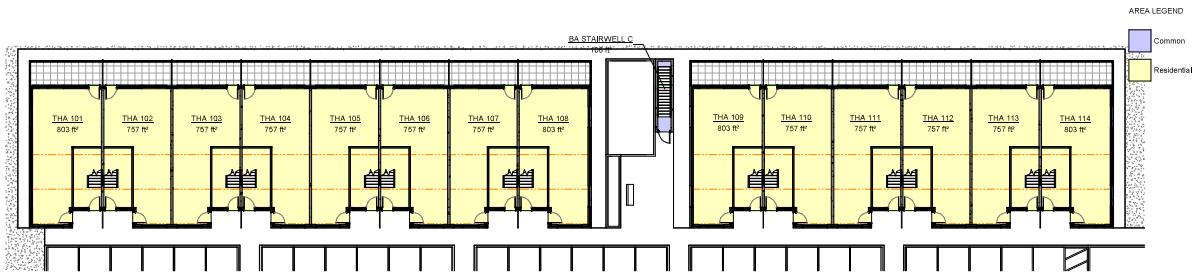
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1 : 200



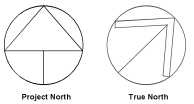
3 **SITE A TOWNHOUSES - LEVEL 3 FLOOR PLAN**
1 : 200



2 **SITE A TOWNHOMES - LEVEL 2 FLOOR PLAN**
1 : 200



1 **SITE A TOWNHOMES - LEVEL 1 FLOOR PLAN**
1 : 200



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No.	Date	Revision

srm ARCHITECTS INC.

Project No.	22008
Project Date	
Drawn by	TJM
Checked by	MYV
File Date / Time	2022-02-08 1:38:37 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

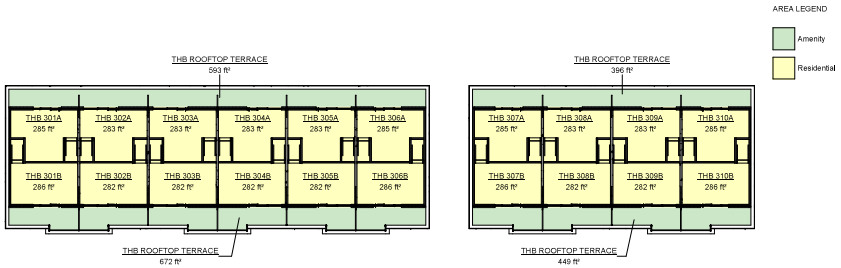
SITE A TOWNHOME PLANS

Drawing Scale: 1 : 200

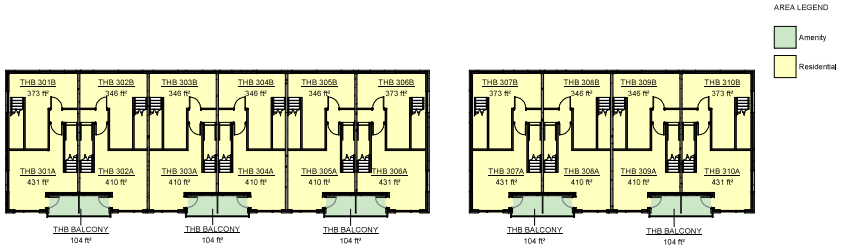
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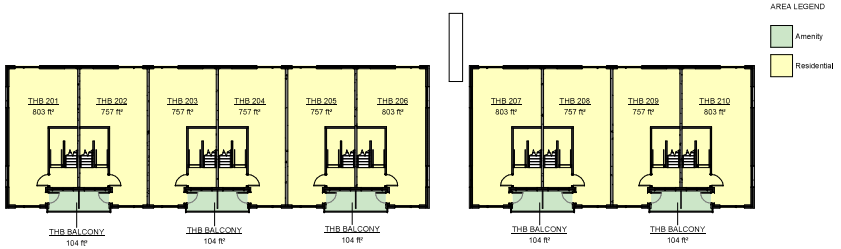
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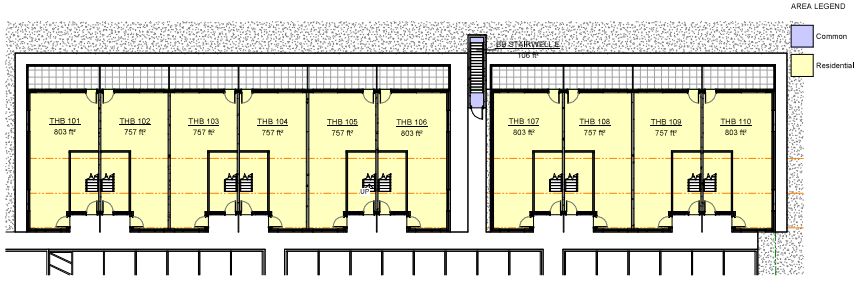
4 SITE B TOWNHOMES - LEVEL 4 FLOOR PLAN
1 : 200



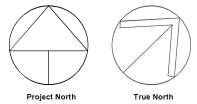
3 SITE B TOWNHOMES - LEVEL 3 FLOOR PLAN
1 : 200



2 SITE B TOWNHOMES - LEVEL 2 FLOOR PLAN
1 : 200



1 SITE A TOWNHOMES - LEVEL 1 FLOOR PLAN
1 : 200



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No.	Date	Revision

srm ARCHITECTS INC.

Project No.	22008
Project Date	
Drawn by	TJM
Checked by	MYV
File Date / Time	2022-02-08 1:38:44 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

SITE B TOWNHOME PLANS

Drawing Scale: 1 : 200

Status:

Drawing No.: D2.15 Revision No.:

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MATERIALS LEGEND		
1		BLACK MASONRY
2		WHITE PRECAST CONCRETE
3		METAL PANEL
4		WINDOW GLAZING
5		BALCONY GLAZING



1 01 D3 ELEVATION - NORTH
1 : 250



2 01 D3 ELEVATION - SOUTH
1 : 250

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No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: Author
Checked by: Checker
Plot Date / Time: 2022-02-08 1:42:54 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

ELEVATIONS

Drawing Scale: As indicated
Status:

Drawing No. D3.1 Revision No.

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1 01 D3 ELEVATION - BLDG A EAST
1: 250



2 01 D3 ELEVATION - BLDG A WEST
1: 250

MATERIALS LEGEND		
1		BLACK MASONRY
2		WHITE PRECAST CONCRETE
3		METAL PANEL
4		WINDOW GLAZING
5		BALCONY GLAZING

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3 01 D3 ELEVATION - BLDG B EAST
1: 250

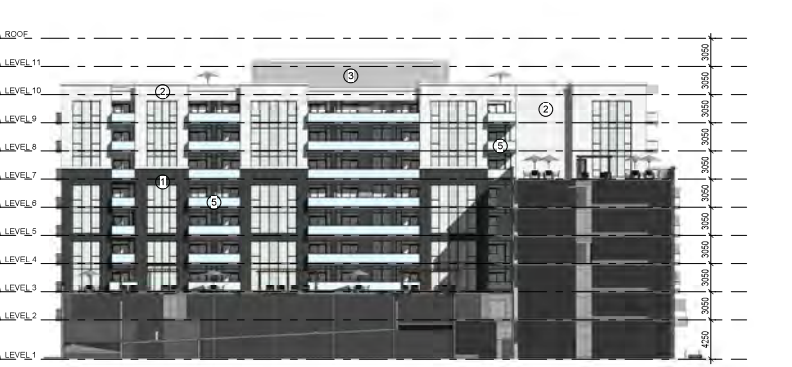


4 01 D3 ELEVATION - BLDG B WEST
1: 250

No.	Date	Revision



5 01 D3 ELEVATION - BLDG B EAST INTERIOR
1: 250



6 01 D3 ELEVATION - BLDG B WEST INTERIOR
1: 250

srm ARCHITECTS INC.

Project No. 22008
Project Date
Drawn by Author
Checked by Checker
Plot Date / Time 2022-02-08 1:47:56 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

ELEVATIONS

Drawing Scale As indicated
Status
Drawing No. D3.2
Revision No.

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MATERIALS LEGEND		
1		BLACK MASONRY
2		WHITE PRECAST CONCRETE
3		METAL PANEL
4		WINDOW GLAZING
5		BALCONY GLAZING



1 TOWNHOUSE NORTH ELEVATION
1 : 250



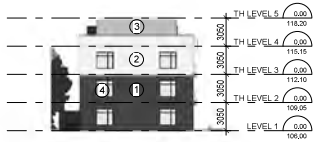
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1 : 250



3 TOWNHOUSE 1 WEST ELEVATION
1 : 250



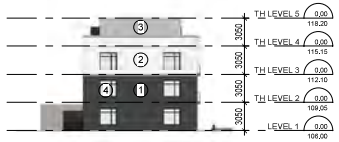
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1 : 250



5 TOWNHOUSE 2 WEST ELEVATION
1 : 250



6 TOWNHOUSE 2 EAST ELEVATION
1 : 250



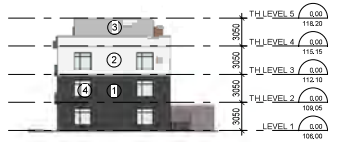
7 TOWNHOUSE 3 WEST ELEVATION
1 : 250



8 TOWNHOUSE 3 EAST ELEVATION
1 : 250



9 TOWNHOUSE 4 WEST ELEVATION
1 : 250



10 TOWNHOUSE 4 EAST ELEVATION
1 : 250

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No.	Date	Revision

srm ARCHITECTS INC.

Project No: 22008
Project Date:
Drawn by: Author
Checked by: Checker
File Date / Time: 2022-02-08 1:48:41 PM

355 PLAINS ROAD & 1010 DOWNSVIEW DRIVE

ELEVATIONS

Drawing Scale: As indicated
Status:
Drawing No.: Revision No.:

D3.3

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Appendix B

Traffic Data and Calculations

Environmental Noise Assessment

335 Plains Holdings Inc. & 355 Plains Holdings Inc.

Burlington, ON

SLR Project No.: 241.30424.00000

Plains Rd @ Downsview Dr

Morning Peak Diagram

Specified Period
From: 7:00:00
To: 9:00:00

One Hour Peak
From: 7:45:00
To: 8:45:00

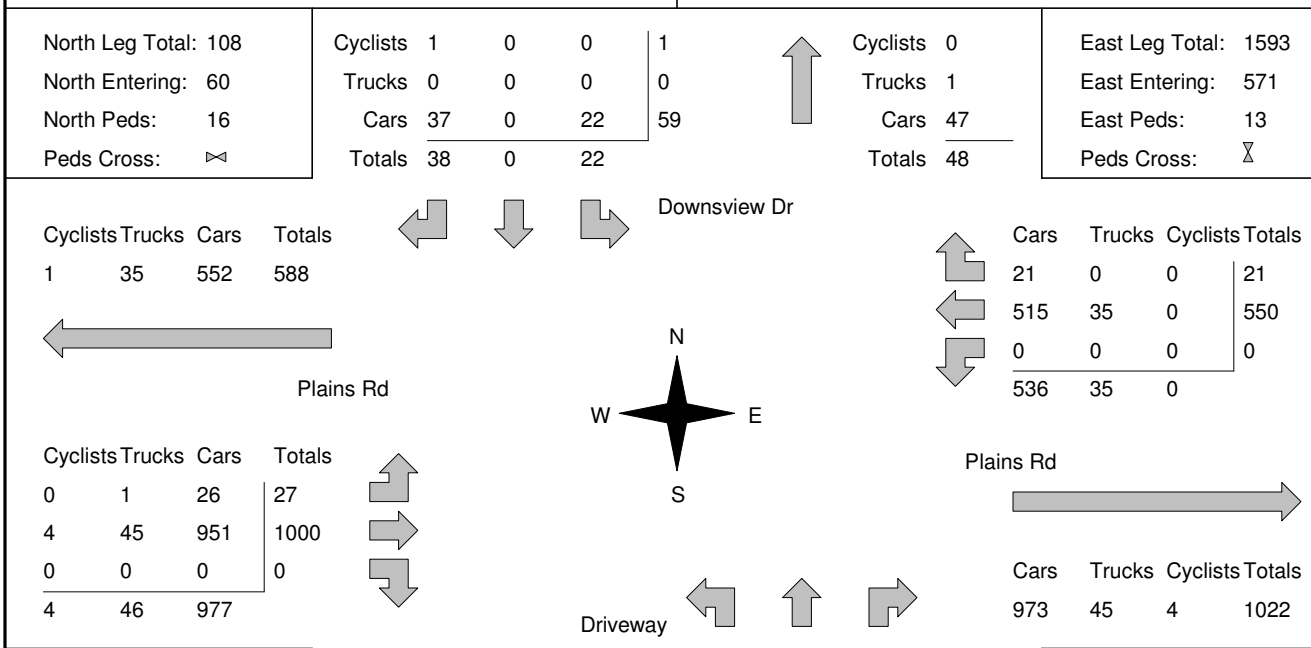
Municipality: Burlington
Site #: 0000200652
Intersection: Plains Rd & Downsview Dr
TFR File #: 1
Count date: 14-Apr-2014

Weather conditions:
Clear am, Rain mid+pm

Person(s) who counted:
Diane

**** Non-Signalized Intersection ****

Major Road: Plains Rd runs W/E



Comments

Plains Rd @ Downsview Dr

Mid-day Peak Diagram

Specified Period
From: 11:00:00
To: 14:00:00

One Hour Peak
From: 12:00:00
To: 13:00:00

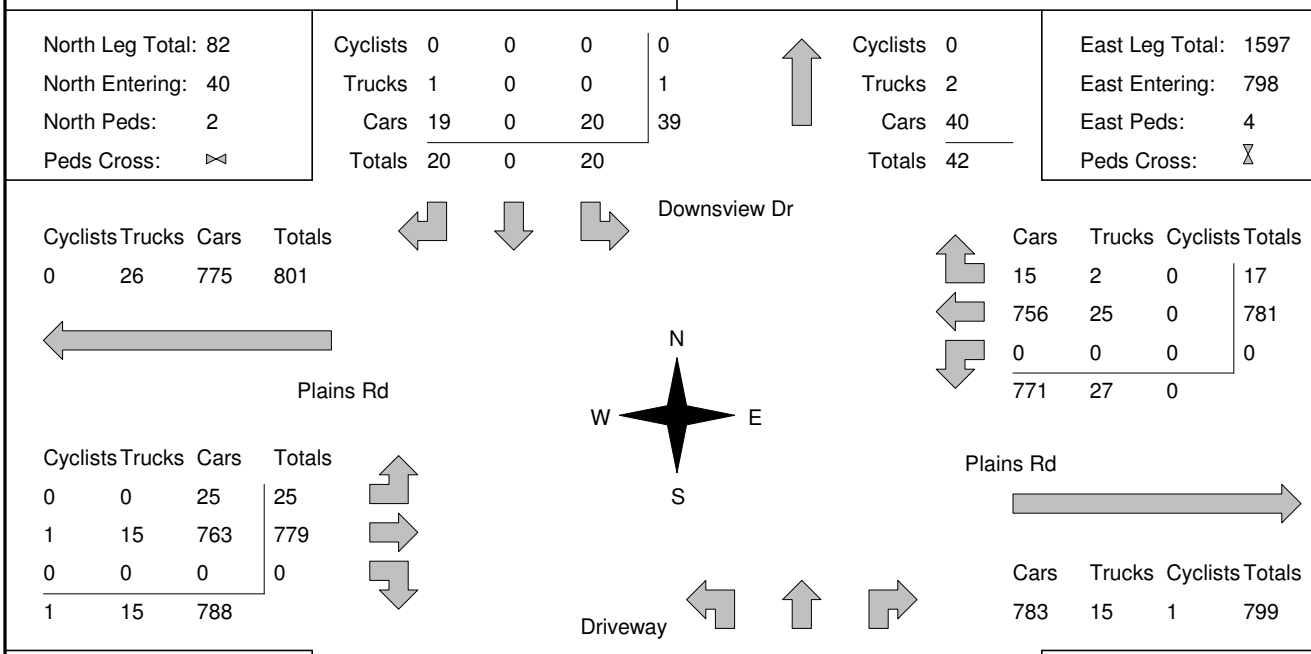
Municipality: Burlington
Site #: 0000200652
Intersection: Plains Rd & Downsview Dr
TFR File #: 1
Count date: 14-Apr-2014

Weather conditions:
Clear am, Rain mid+pm

Person(s) who counted:
Diane

**** Non-Signalized Intersection ****

Major Road: Plains Rd runs W/E



Comments

Plains Rd @ Downsview Dr

Afternoon Peak Diagram

Specified Period
From: 15:00:00
To: 18:00:00

One Hour Peak
From: 16:45:00
To: 17:45:00

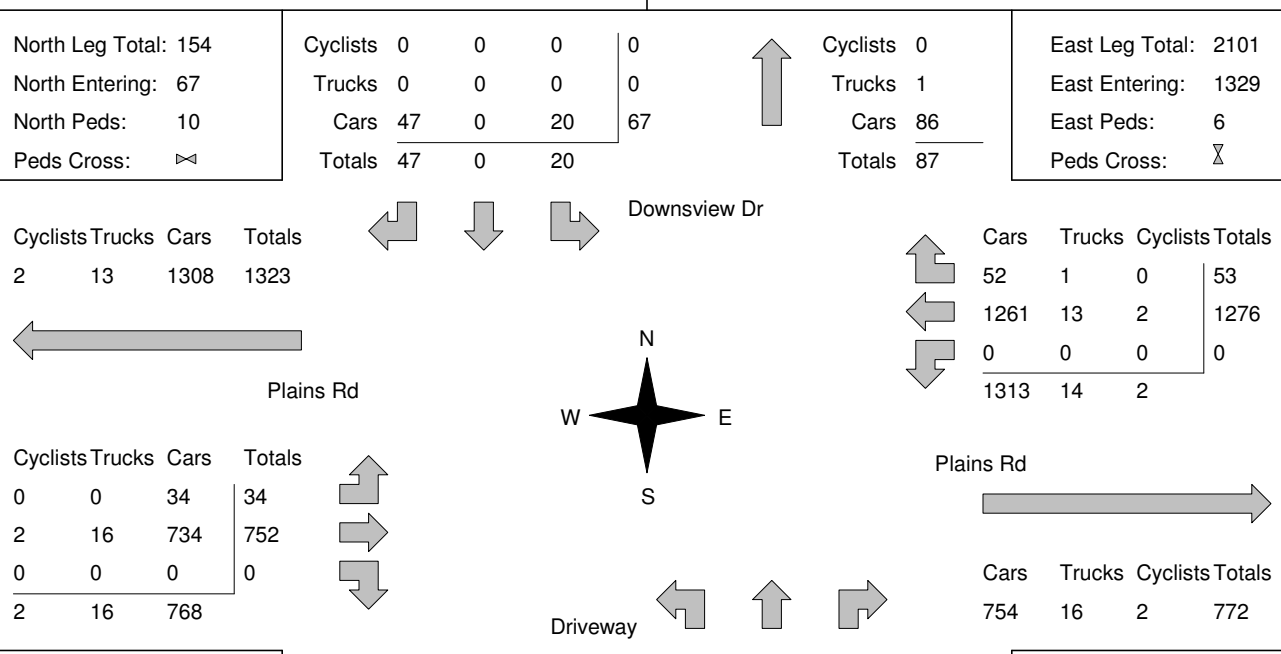
Municipality: Burlington
Site #: 0000200652
Intersection: Plains Rd & Downsview Dr
TFR File #: 1
Count date: 14-Apr-2014

Weather conditions:
Clear am, Rain mid+pm

Person(s) who counted:
Diane

**** Non-Signalized Intersection ****

Major Road: Plains Rd runs W/E



Comments

Plains Rd @ Downsview Dr

Total Count Diagram

Municipality: Burlington
Site #: 0000200652
Intersection: Plains Rd & Downsview Dr
TFR File #: 1
Count date: 14-Apr-2014

Weather conditions:
Clear am, Rain mid+pm

Person(s) who counted:
Diane

**** Non-Signalized Intersection ****

Major Road: Plains Rd runs W/E

North Leg Total: 776
North Entering: 381
North Peds: 56
Peds Cross: ⋈

Cyclists	1	0	0	1
Trucks	5	0	0	5
Cars	230	0	145	375
Totals	236	0	145	

Cyclists	0
Trucks	7
Cars	388
Totals	395

East Leg Total: 12764
East Entering: 6539
East Peds: 56
Peds Cross: ⋈

Downsview Dr

Cyclists	Trucks	Cars	Totals
11	204	6340	6555

Cars	Trucks	Cyclists	Totals
213	5	0	218
6110	199	10	6319
2	0	0	2
6325	204	10	

Plains Rd

N
W E
S

Cyclists	Trucks	Cars	Totals
0	2	175	177
13	209	5858	6080
0	0	0	0
13	211	6033	

Plains Rd

Cars	Trucks	Cyclists	Totals
6003	209	13	6225

Driveway

Peds Cross: ⋈
West Peds: 0
West Entering: 6257
West Leg Total: 12812

Cars	2
Trucks	0
Cyclists	0
Totals	2

Cars	0	0	0
Trucks	0	0	0
Cyclists	0	0	0
Totals	0	0	0

Peds Cross: ⋈
South Peds: 0
South Entering: 0
South Leg Total: 2

Comments

Plains Rd @ Downsview Dr

Annual Average Daily Traffic Diagram

Total Factor = Monthly Factor(1.02) x Daily Factor(1.02) x 24 Hour Factor(1.85) = 1.924740

Municipality: Burlington
Site #: 0000200652
Intersection: Plains Rd & Downsview Dr
TFR File #: 1
Count date: 14-Apr-2014

Weather conditions:
Clear am, Rain mid+pm

Person(s) who counted:
Diane

**** Non-Signalized Intersection ****

Major Road: Plains Rd runs W/E

North Leg Total:	1494			
North Entering:	733			
North Peds:	108			
Peds Cross:	⋈			
Cyclists	2	0	0	2
Trucks	10	0	0	10
Cars	443	0	279	722
Totals	454	0	279	
Cyclists	0			
Trucks	13			
Cars	747			
Totals	760			
East Leg Total:	24567			
East Entering:	12586			
East Peds:	108			
Peds Cross:	⧖			

Downsview Dr

Cyclists	Trucks	Cars	Totals
21	393	12203	12617

Cars	Trucks	Cyclists	Totals
410	10	0	420
11760	383	19	12162
4	0	0	4
12174	393	19	

Plains Rd

N
W E
S

Cyclists	Trucks	Cars	Totals
0	4	337	341
25	402	11275	11702
0	0	0	0
25	406	11612	

Plains Rd

Cars	Trucks	Cyclists	Totals
11554	402	25	11982

Driveway

Peds Cross:	⧖			
West Peds:	0			
West Entering:	12043			
West Leg Total:	24660			
Cars	4			
Trucks	0			
Cyclists	0			
Totals	4			
Cars	0	0	0	0
Trucks	0	0	0	0
Cyclists	0	0	0	0
Totals	0	0	0	
Peds Cross:	⋈			
South Peds:	0			
South Entering:	0			
South Leg Total:	4			

Comments

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

Start	02-Nov-20		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
Time	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	*	*	*	*	*	*	*	*	23	28	55	75	75	79	51	61
01:00	*	*	*	*	*	*	*	*	10	14	36	40	55	51	34	35
02:00	*	*	*	*	*	*	18	15	11	12	24	30	21	27	18	21
03:00	*	*	*	*	*	*	15	12	10	11	12	17	14	30	13	18
04:00	*	*	*	*	*	*	29	17	30	13	12	15	25	18	24	16
05:00	*	*	*	*	*	*	113	60	116	63	48	26	44	28	80	44
06:00	*	*	*	*	*	*	282	161	274	143	136	103	103	77	199	121
07:00	*	*	*	*	*	*	607	321	487	303	218	169	214	153	382	236
08:00	*	*	*	*	*	*	650	459	585	445	380	298	342	323	489	381
09:00	*	*	*	*	*	*	605	474	591	476	550	585	538	519	571	514
10:00	*	*	*	*	*	*	631	539	650	527	804	764	818	789	726	655
11:00	*	*	*	*	*	*	**697**	**602**	**718**	**641**	**930**	**915**	**1011**	**914**	**839**	**768**
12:00 PM	*	*	*	*	*	*	738	731	722	762	957	941	1258	1234	919	917
01:00	*	*	*	*	*	*	688	700	730	788	**973**	952	1165	**1265**	889	926
02:00	*	*	*	*	*	*	693	764	703	763	900	954	1172	1203	867	921
03:00	*	*	*	*	*	*	**751**	888	**760**	**896**	949	**1040**	**1260**	1196	**930**	**1005**
04:00	*	*	*	*	*	*	676	**951**	756	881	827	910	1095	1028	838	942
05:00	*	*	*	*	*	*	635	838	702	890	745	799	867	928	737	864
06:00	*	*	*	*	*	*	435	559	477	644	505	631	454	576	468	602
07:00	*	*	*	*	*	*	299	395	369	430	365	408	380	453	353	422
08:00	*	*	*	*	*	*	202	291	295	315	251	297	235	315	246	304
09:00	*	*	*	*	*	*	134	181	180	196	150	247	164	176	157	200
10:00	*	*	*	*	*	*	95	101	131	140	123	176	136	148	121	141
11:00	*	*	*	*	*	*	66	72	75	103	107	97	59	80	77	88
Lane	0	0	0	0	0	0	9059	9131	9405	9484	10057	10489	11505	11610	10028	10202
Day	0		0		0		18190		18889		20546		23115		20230	
AM Peak	-	-	-	-	-	-	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00
Vol.	-	-	-	-	-	-	697	602	718	641	930	915	1011	914	839	768
PM Peak	-	-	-	-	-	-	15:00	16:00	15:00	15:00	13:00	15:00	15:00	13:00	15:00	15:00
Vol.	-	-	-	-	-	-	751	951	760	896	973	1040	1260	1265	930	1005

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

Start	09-Nov-20		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
Time	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	22	28	28	31	23	43	*	*	*	*	*	*	*	*	24	34
01:00	9	14	11	12	17	23	*	*	*	*	*	*	*	*	12	16
02:00	9	13	17	18	18	16	*	*	*	*	*	*	*	*	15	16
03:00	19	14	10	9	16	11	*	*	*	*	*	*	*	*	15	11
04:00	23	13	21	14	20	14	*	*	*	*	*	*	*	*	21	14
05:00	114	90	119	64	121	77	*	*	*	*	*	*	*	*	118	77
06:00	330	169	279	148	307	154	*	*	*	*	*	*	*	*	305	157
07:00	556	333	552	331	519	323	*	*	*	*	*	*	*	*	542	329
08:00	641	492	625	481	637	430	*	*	*	*	*	*	*	*	634	468
09:00	610	509	587	459	552	449	*	*	*	*	*	*	*	*	583	472
10:00	689	587	586	556	575	522	*	*	*	*	*	*	*	*	617	555
11:00	**739**	**686**	**719**	**667**	**737**	**624**	*	*	*	*	*	*	*	*	**732**	**659**
12:00 PM	763	796	736	696	840	774	*	*	*	*	*	*	*	*	780	755
01:00	743	786	687	724	**863**	767	*	*	*	*	*	*	*	*	764	759
02:00	709	838	702	796	722	798	*	*	*	*	*	*	*	*	711	811
03:00	**797**	913	**794**	899	761	903	*	*	*	*	*	*	*	*	**784**	905
04:00	737	**1001**	714	**1043**	753	**970**	*	*	*	*	*	*	*	*	735	**1005**
05:00	702	976	661	895	623	945	*	*	*	*	*	*	*	*	662	939
06:00	439	536	446	605	459	615	*	*	*	*	*	*	*	*	448	585
07:00	316	416	292	403	319	404	*	*	*	*	*	*	*	*	309	408
08:00	209	274	206	279	203	286	*	*	*	*	*	*	*	*	206	280
09:00	119	149	134	174	142	167	*	*	*	*	*	*	*	*	132	163
10:00	96	119	100	105	84	93	*	*	*	*	*	*	*	*	93	106
11:00	62	58	68	69	*	*	*	*	*	*	*	*	*	*	65	64
Lane	9453	9810	9094	9478	9311	9408	0	0	0	0	0	0	0	0	9307	9588
Day	19263		18572		18719		0		0		0		0		18895	
AM Peak	11:00	11:00	11:00	11:00	11:00	11:00	-	-	-	-	-	-	-	-	11:00	11:00
Vol.	739	686	719	667	737	624	-	-	-	-	-	-	-	-	732	659
PM Peak	15:00	16:00	15:00	16:00	13:00	16:00	-	-	-	-	-	-	-	-	15:00	16:00
Vol.	797	1001	794	1043	863	970	-	-	-	-	-	-	-	-	784	1005

Comb. Total	19263	18572	18719	18190	18889	20546	23115	39125
ADT	ADT 19,848	AADT 19,650						

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/05/20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	1	15	1	2	1	0	0	0	0	0	0	0	0	0	20
03:00	0	13	3	0	1	0	0	0	0	0	0	0	0	0	17
04:00	0	23	6	2	0	0	0	0	0	1	0	0	0	0	32
05:00	2	89	22	8	4	0	0	0	0	0	0	0	0	0	125
06:00	6	220	61	6	17	0	0	2	0	0	0	0	0	1	313
07:00	15	482	113	13	27	4	0	8	1	0	1	0	1	9	674
08:00	22	511	101	13	36	5	2	7	1	0	0	1	0	23	722
09:00	21	493	88	5	31	5	0	10	2	0	1	0	1	14	671
10:00	10	560	82	3	20	2	0	9	0	0	0	0	1	13	700
11:00	15	609	82	8	25	3	0	8	1	0	1	0	0	22	774
12 PM	23	627	112	7	18	2	1	6	2	0	0	0	0	21	819
13:00	15	600	82	10	30	1	2	8	1	0	0	0	0	15	764
14:00	17	583	97	7	32	1	0	11	1	0	0	0	0	20	769
15:00	24	628	104	11	28	1	2	12	1	0	1	0	0	22	834
16:00	14	590	81	7	31	1	0	3	1	0	2	0	0	20	750
17:00	13	558	91	5	12	1	0	5	0	0	1	0	0	19	705
18:00	1	416	50	5	6	0	0	0	0	0	0	0	0	5	483
19:00	3	271	39	5	10	0	0	0	0	0	0	0	0	4	332
20:00	3	188	22	5	4	0	0	0	0	0	0	0	0	2	224
21:00	1	121	18	3	3	0	0	1	1	0	0	0	0	1	149
22:00	0	89	10	4	3	0	0	0	0	0	0	0	0	0	106
23:00	1	60	7	4	1	0	0	0	0	0	0	0	0	0	73
Total	207	7746	1272	133	340	26	7	90	12	1	7	1	3	211	10056
Percent	2.1%	77.0%	12.6%	1.3%	3.4%	0.3%	0.1%	0.9%	0.1%	0.0%	0.1%	0.0%	0.0%	2.1%	
AM Peak	08:00	11:00	07:00	07:00	08:00	08:00	08:00	09:00	09:00	04:00	07:00	08:00	07:00	08:00	
Vol.	22	609	113	13	36	5	2	10	2	1	1	1	1	23	
PM Peak	15:00	15:00	12:00	15:00	14:00	12:00	13:00	15:00	12:00		16:00			15:00	
Vol.	24	628	112	11	32	2	2	12	2		2			22	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/06/20	0	18	5	2	1	0	0	0	0	0	0	0	0	0	26
01:00	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
02:00	0	10	1	1	1	0	0	0	0	0	0	0	0	0	13
03:00	0	8	3	0	0	0	0	0	0	0	0	0	0	0	11
04:00	1	25	3	3	0	1	0	0	0	1	0	0	0	0	34
05:00	2	96	22	4	8	0	0	1	0	0	0	0	0	0	133
06:00	1	216	65	9	15	0	0	1	0	0	0	0	0	7	314
07:00	9	399	93	10	27	1	2	7	2	0	0	0	0	9	559
08:00	16	489	98	14	30	2	0	8	1	0	0	0	0	13	671
09:00	16	515	92	7	28	3	0	4	3	0	0	0	0	10	678
10:00	13	585	98	6	24	2	1	3	1	0	0	0	0	13	746
11:00	22	649	91	9	27	4	0	3	3	0	1	0	0	15	824
12 PM	19	650	97	4	18	4	2	9	0	1	0	0	1	24	829
13:00	15	680	95	5	21	2	0	3	3	0	0	0	1	13	838
14:00	27	636	92	6	31	1	1	3	0	0	0	0	0	10	807
15:00	26	675	104	16	19	1	0	6	1	0	0	1	0	23	872
16:00	19	700	96	7	21	1	1	6	1	1	0	0	0	15	868
17:00	25	670	71	4	8	1	2	6	0	0	0	0	1	18	806
18:00	4	443	66	8	12	3	0	1	0	0	0	0	0	11	548
19:00	5	340	51	8	10	3	0	0	0	0	0	0	0	7	424
20:00	3	287	37	4	6	0	0	0	0	0	0	0	0	2	339
21:00	3	176	20	4	3	0	0	0	0	0	0	0	0	1	207
22:00	1	135	9	5	0	0	0	0	0	0	0	0	0	0	150
23:00	0	73	8	4	1	0	0	0	0	0	0	0	0	0	86
Total	227	8487	1317	140	311	29	9	61	15	3	1	1	3	191	10795
Percent	2.1%	78.6%	12.2%	1.3%	2.9%	0.3%	0.1%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	1.8%	
AM Peak	11:00	11:00	08:00	08:00	08:00	11:00	07:00	08:00	09:00	04:00	11:00			11:00	
Vol.	22	649	98	14	30	4	2	8	3	1	1			15	
PM Peak	14:00	16:00	15:00	15:00	14:00	12:00	12:00	12:00	13:00	12:00		15:00	12:00	12:00	
Vol.	27	700	104	16	31	4	2	9	3	1		1	1	24	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/07/20	0	42	7	1	2	0	0	0	0	0	0	0	0	0	52
01:00	0	29	2	1	1	0	0	0	0	0	0	0	0	1	34
02:00	0	20	1	1	1	0	0	0	0	0	0	0	0	0	23
03:00	0	8	2	1	0	0	0	0	0	0	0	0	0	0	11
04:00	0	7	3	1	0	0	0	0	0	0	0	0	0	0	11
05:00	0	33	10	2	0	0	0	0	0	0	0	0	0	0	45
06:00	1	103	18	0	4	0	0	2	0	0	0	0	0	0	128
07:00	2	162	31	5	6	0	0	0	0	0	0	0	0	0	206
08:00	4	285	53	4	8	2	0	1	0	0	0	0	0	2	359
09:00	3	422	60	5	18	0	0	2	0	0	0	0	0	9	519
10:00	12	621	90	3	16	1	1	3	0	0	0	0	0	12	759
11:00	17	736	88	4	16	0	1	2	1	0	0	0	0	13	878
12 PM	18	758	84	5	14	4	1	3	0	0	0	0	0	16	903
13:00	20	783	81	5	13	2	0	0	1	0	1	0	0	13	919
14:00	33	690	86	4	18	0	1	3	1	0	1	0	0	13	850
15:00	22	748	90	4	9	2	0	1	0	0	0	0	0	20	896
16:00	27	654	67	4	9	2	1	0	0	0	0	0	0	17	781
17:00	9	584	80	4	7	1	0	3	0	0	0	0	0	15	703
18:00	11	398	46	4	11	0	0	0	0	0	0	0	0	7	477
19:00	5	285	38	4	7	0	0	1	0	0	0	0	0	5	345
20:00	4	200	25	2	5	0	0	0	0	0	0	0	0	1	237
21:00	3	118	17	2	1	0	0	0	0	0	0	0	0	1	142
22:00	2	94	13	2	4	0	0	0	0	0	0	0	0	1	116
23:00	0	80	18	2	0	0	0	0	0	0	0	0	0	1	101
Total	193	7860	1010	70	170	14	5	21	3	0	2	0	0	147	9495
Percent	2.0%	82.8%	10.6%	0.7%	1.8%	0.1%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	11:00	11:00	10:00	07:00	09:00	08:00	10:00	10:00	11:00					11:00	
Vol.	17	736	90	5	18	2	1	3	1					13	
PM Peak	14:00	13:00	15:00	12:00	14:00	12:00	12:00	12:00	13:00		13:00			15:00	
Vol.	33	783	90	5	18	4	1	3	1		1			20	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/08/20	1	44	6	1	0	0	0	0	0	0	0	0	0	1	53
01:00	2	28	9	0	0	0	0	0	0	0	0	0	0	0	39
02:00	0	13	1	0	1	0	0	0	0	0	0	0	0	0	15
03:00	0	7	2	1	0	0	0	0	0	0	0	0	0	0	10
04:00	0	13	5	0	0	0	0	0	0	0	0	0	0	0	18
05:00	0	27	1	2	0	0	0	0	0	0	0	0	0	1	31
06:00	2	58	8	0	3	1	0	0	0	0	0	0	0	1	73
07:00	0	121	23	4	3	0	0	0	0	0	0	0	0	1	152
08:00	3	198	29	4	8	0	1	0	0	0	0	0	0	0	243
09:00	6	313	46	4	11	0	1	0	1	0	0	0	0	1	383
10:00	10	482	75	4	6	1	0	2	0	0	0	0	0	2	582
11:00	12	603	69	4	8	2	0	2	0	0	1	0	0	18	719
12 PM	27	758	69	5	16	0	1	2	0	0	0	0	0	17	895
13:00	27	699	73	2	8	0	0	2	0	0	0	0	1	17	829
14:00	35	704	60	3	7	0	0	2	0	0	0	0	1	22	834
15:00	39	736	82	4	9	2	0	1	1	0	1	0	0	21	896
16:00	21	665	68	4	7	1	1	2	0	0	0	0	0	10	779
17:00	19	508	68	5	9	0	0	0	0	0	0	0	0	8	617
18:00	3	280	30	4	5	0	0	0	0	0	0	0	0	1	323
19:00	1	223	37	4	3	0	0	1	0	0	0	0	0	1	270
20:00	2	147	12	2	1	0	0	0	1	0	0	0	0	2	167
21:00	1	92	19	2	3	0	0	0	0	0	0	0	0	0	117
22:00	0	80	11	1	4	0	0	0	0	0	0	0	0	1	97
23:00	0	39	2	1	0	0	0	0	0	0	0	0	0	0	42
Total	211	6838	805	61	112	7	4	14	3	0	2	0	2	125	8184
Percent	2.6%	83.6%	9.8%	0.7%	1.4%	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	11:00	11:00	10:00	07:00	09:00	11:00	08:00	10:00	09:00		11:00			11:00	
Vol.	12	603	75	4	11	2	1	2	1		1			18	
PM Peak	15:00	12:00	15:00	12:00	12:00	15:00	12:00	12:00	15:00		15:00		13:00	14:00	
Vol.	39	758	82	5	16	2	1	2	1		1		1	22	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/09/20	0	18	3	0	1	0	0	0	0	0	0	0	0	0	22
01:00	0	7	2	0	0	0	0	0	0	0	0	0	0	0	9
02:00	0	6	2	1	0	0	0	0	0	0	0	0	0	0	9
03:00	1	11	4	0	2	0	1	0	0	0	0	0	0	0	19
04:00	0	17	4	2	0	0	0	0	0	0	0	0	0	0	23
05:00	4	78	20	7	4	0	0	0	0	0	0	0	0	0	113
06:00	4	234	53	8	18	2	0	3	1	2	0	0	0	2	327
07:00	13	399	88	11	23	2	2	4	2	0	1	0	2	4	551
08:00	10	455	89	16	40	3	2	10	0	0	0	0	0	10	635
09:00	9	477	71	6	17	2	1	6	0	1	0	0	1	13	604
10:00	6	527	91	8	25	5	1	3	0	0	0	0	1	15	682
11:00	20	591	75	12	13	3	1	8	1	0	0	0	0	8	732
12 PM	21	571	85	4	35	4	0	14	2	1	0	0	0	19	756
13:00	13	576	96	11	22	2	2	9	0	0	0	0	0	5	736
14:00	22	561	76	8	14	4	2	6	1	0	0	0	0	8	702
15:00	23	609	98	7	29	2	1	5	0	0	0	0	0	15	789
16:00	26	578	75	9	20	3	1	3	0	0	0	0	0	15	730
17:00	16	575	73	7	11	1	0	1	0	0	0	0	0	11	695
18:00	3	368	43	7	7	2	0	2	0	0	0	0	0	3	435
19:00	2	264	32	4	6	0	0	0	1	0	0	0	0	4	313
20:00	0	177	20	4	4	0	0	0	0	0	0	0	0	2	207
21:00	2	99	8	4	5	0	0	0	0	0	0	0	0	0	118
22:00	0	80	10	4	1	0	0	0	0	0	0	0	0	0	95
23:00	0	50	5	4	2	0	0	0	0	0	0	0	0	0	61
Total	195	7328	1123	144	299	35	14	74	8	4	1	0	4	134	9363
Percent	2.1%	78.3%	12.0%	1.5%	3.2%	0.4%	0.1%	0.8%	0.1%	0.0%	0.0%	0.0%	0.0%	1.4%	
AM Peak	11:00	11:00	10:00	08:00	08:00	10:00	07:00	08:00	07:00	06:00	07:00		07:00	10:00	
Vol.	20	591	91	16	40	5	2	10	2	2	1		2	15	
PM Peak	16:00	15:00	15:00	13:00	12:00	12:00	13:00	12:00	12:00	12:00				12:00	
Vol.	26	609	98	11	35	4	2	14	2	1				19	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/10/20	1	24	3	2	0	0	0	0	0	0	0	0	0	0	30
01:00	0	11	0	0	1	0	0	0	0	0	0	0	0	0	12
02:00	0	14	1	1	2	0	0	0	0	0	0	0	0	0	18
03:00	0	10	1	0	0	0	0	0	0	0	0	0	0	0	11
04:00	0	17	4	1	0	0	0	0	0	1	0	0	0	0	23
05:00	3	88	24	8	5	0	0	1	0	0	0	0	0	0	129
06:00	4	223	51	9	12	0	0	2	0	0	0	0	0	2	303
07:00	13	440	91	12	27	2	1	8	0	1	0	0	0	5	600
08:00	20	497	92	12	29	1	2	11	1	0	0	0	2	12	679
09:00	14	487	74	6	27	3	1	9	1	2	2	0	0	12	638
10:00	14	496	80	8	12	3	0	6	0	1	0	0	0	16	636
11:00	17	621	84	7	20	6	0	4	1	0	1	0	0	20	781
12 PM	13	622	95	9	15	2	1	6	1	0	1	0	0	34	799
13:00	21	595	70	8	20	3	0	8	0	1	0	0	0	20	746
14:00	31	594	74	10	20	0	1	7	1	1	0	0	0	24	763
15:00	18	660	111	12	29	3	1	4	0	0	1	0	0	23	862
16:00	23	621	78	6	27	1	1	1	0	0	0	0	0	18	776
17:00	17	599	62	8	13	1	0	4	0	0	0	0	1	13	718
18:00	9	393	52	6	12	2	0	2	0	0	1	0	0	7	484
19:00	0	259	43	4	8	0	0	0	0	0	0	0	0	3	317
20:00	4	191	17	3	5	1	0	0	1	0	0	0	0	2	224
21:00	10	115	12	4	3	0	0	0	0	0	0	0	0	1	145
22:00	2	92	8	5	2	0	0	0	0	0	0	0	0	0	109
23:00	4	58	6	3	3	0	0	0	0	0	0	0	0	0	74
Total	238	7727	1133	144	292	28	8	73	6	7	6	0	3	212	9877
Percent	2.4%	78.2%	11.5%	1.5%	3.0%	0.3%	0.1%	0.7%	0.1%	0.1%	0.1%	0.0%	0.0%	2.1%	
AM Peak	08:00	11:00	08:00	07:00	08:00	11:00	08:00	08:00	08:00	09:00	09:00		08:00	11:00	
Vol.	20	621	92	12	29	6	2	11	1	2	2		2	20	
PM Peak	14:00	15:00	15:00	15:00	15:00	13:00	12:00	13:00	12:00	13:00	12:00		17:00	12:00	
Vol.	31	660	111	12	29	3	1	8	1	1	1		1	34	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/11/20	0	20	3	2	0	0	0	0	0	0	0	0	0	0	25
01:00	0	15	3	0	0	0	0	0	0	0	0	0	0	0	18
02:00	1	16	0	1	1	0	0	0	0	0	0	0	0	0	19
03:00	0	15	2	0	0	0	0	0	0	0	0	0	0	0	17
04:00	0	12	7	2	0	0	0	0	0	0	0	0	0	0	21
05:00	2	91	26	5	4	1	0	1	0	0	0	0	0	0	130
06:00	3	233	63	7	13	1	0	5	1	0	0	0	0	4	330
07:00	8	412	71	9	32	4	1	10	2	0	1	0	0	8	558
08:00	18	516	88	13	33	1	4	5	2	1	1	0	0	3	685
09:00	14	454	76	7	18	1	1	5	3	0	0	0	0	14	593
10:00	20	492	72	8	15	0	0	3	0	0	1	0	0	7	618
11:00	16	619	93	8	25	2	1	2	1	0	0	0	2	23	792
12 PM	25	700	101	13	30	5	1	5	1	1	0	0	1	20	903
13:00	18	732	97	9	30	4	4	5	1	0	0	0	1	26	927
14:00	11	635	68	9	22	1	2	6	1	0	1	0	0	20	776
15:00	22	633	100	10	18	3	1	7	1	0	1	0	0	22	818
16:00	21	661	82	7	19	3	1	4	0	0	0	0	0	11	809
17:00	7	565	62	6	18	0	0	1	0	0	1	0	0	9	669
18:00	0	414	59	6	8	0	0	0	0	0	0	0	0	6	493
19:00	1	290	41	3	4	0	0	0	0	0	0	0	0	4	343
20:00	3	181	23	4	5	0	0	0	0	0	0	0	0	2	218
21:00	4	127	15	3	2	0	0	1	0	0	0	0	0	1	153
22:00	0	79	5	5	1	0	0	0	0	0	0	0	0	0	90
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	194	7912	1157	137	298	26	16	60	13	2	6	0	4	180	10005
Percent	1.9%	79.1%	11.6%	1.4%	3.0%	0.3%	0.2%	0.6%	0.1%	0.0%	0.1%	0.0%	0.0%	1.8%	
AM Peak	10:00	11:00	11:00	08:00	08:00	07:00	08:00	07:00	09:00	08:00	07:00		11:00	11:00	
Vol.	20	619	93	13	33	4	4	10	3	1	1		2	23	
PM Peak	12:00	13:00	12:00	12:00	12:00	12:00	13:00	15:00	12:00	12:00	14:00		12:00	13:00	
Vol.	25	732	101	13	30	5	4	7	1	1	1		1	26	
Grand Total	1465	53898	7817	829	1822	165	63	393	60	17	25	2	19	1200	67775
Percent	2.2%	79.5%	11.5%	1.2%	2.7%	0.2%	0.1%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	1.8%	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/05/20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	0	13	2	2	0	0	0	0	0	0	0	0	0	0	17
03:00	0	7	5	1	0	0	0	0	0	0	0	0	0	0	13
04:00	0	11	7	0	0	1	0	0	0	0	0	0	0	0	19
05:00	0	49	10	6	2	0	0	0	0	0	0	0	0	0	67
06:00	0	130	31	6	12	0	0	0	0	0	0	0	0	0	179
07:00	8	248	63	11	15	3	0	1	2	1	0	0	0	4	356
08:00	10	383	58	11	23	0	2	11	3	0	1	0	0	7	509
09:00	8	398	75	10	22	0	0	5	1	0	0	0	0	7	526
10:00	12	471	66	7	20	1	0	4	5	0	1	0	1	10	598
11:00	11	539	68	9	15	1	0	8	3	0	1	0	0	13	668
12 PM	17	668	77	8	14	3	5	1	2	0	1	0	0	15	811
13:00	9	619	94	9	19	3	2	4	4	1	1	0	1	11	777
14:00	25	676	83	11	26	0	1	4	4	0	0	0	0	18	848
15:00	25	784	99	7	33	4	2	1	1	0	0	0	0	30	986
16:00	33	825	117	11	29	3	2	3	1	0	1	0	0	31	1056
17:00	15	764	99	9	11	1	1	8	1	1	0	0	0	20	930
18:00	8	519	59	7	16	1	2	2	0	0	0	0	0	6	620
19:00	8	377	34	5	7	1	0	2	0	0	0	0	0	5	439
20:00	3	286	21	4	7	1	0	0	0	0	0	0	0	1	323
21:00	1	176	17	4	1	0	0	1	0	0	0	0	0	1	201
22:00	0	95	11	4	1	0	0	0	0	0	1	0	0	0	112
23:00	2	67	6	4	1	0	0	0	0	0	0	0	0	0	80
Total	195	8105	1102	146	274	23	17	55	27	3	7	0	2	179	10135
Percent	1.9%	80.0%	10.9%	1.4%	2.7%	0.2%	0.2%	0.5%	0.3%	0.0%	0.1%	0.0%	0.0%	1.8%	
AM Peak	10:00	11:00	09:00	07:00	08:00	07:00	08:00	08:00	10:00	07:00	08:00		10:00	11:00	
Vol.	12	539	75	11	23	3	2	11	5	1	1		1	13	
PM Peak	16:00	16:00	16:00	14:00	15:00	15:00	12:00	17:00	13:00	13:00	12:00		13:00	16:00	
Vol.	33	825	117	11	33	4	5	8	4	1	1		1	31	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/06/20	0	27	2	3	0	0	0	0	0	0	0	0	0	0	32
01:00	0	13	3	0	0	0	0	0	0	0	0	0	0	0	16
02:00	0	12	1	1	0	0	0	0	0	0	0	0	0	0	14
03:00	0	10	2	1	0	0	0	0	0	0	0	0	0	0	13
04:00	0	10	4	1	0	0	0	0	0	0	0	0	0	0	15
05:00	0	51	14	4	2	0	0	1	0	0	0	0	0	0	72
06:00	2	121	28	6	5	1	0	1	0	0	0	0	0	0	164
07:00	5	253	53	11	16	1	0	2	2	0	0	0	0	5	348
08:00	8	394	65	12	16	2	0	2	5	0	0	0	0	7	511
09:00	9	406	68	11	29	3	0	8	2	0	0	0	0	10	546
10:00	15	490	58	10	16	0	0	4	6	0	0	0	2	4	605
11:00	23	565	90	7	26	2	2	6	1	0	0	0	0	14	736
12 PM	13	719	84	9	20	4	1	2	1	0	2	0	1	19	875
13:00	15	740	91	4	23	6	0	6	2	0	1	0	0	16	904
14:00	18	709	85	6	20	2	2	3	1	1	1	0	0	28	876
15:00	34	831	90	13	24	2	0	3	2	0	0	0	0	29	1028
16:00	33	829	92	6	23	0	0	5	0	0	0	0	0	23	1011
17:00	20	842	104	7	19	2	1	3	0	0	0	0	0	24	1022
18:00	7	633	67	6	14	1	0	2	0	0	0	0	0	9	739
19:00	5	426	46	6	6	0	0	0	0	0	1	0	0	4	494
20:00	0	320	24	4	6	0	0	0	0	0	0	0	0	8	362
21:00	1	202	14	4	4	0	0	0	0	0	0	0	0	0	225
22:00	1	141	14	4	0	0	0	0	0	0	0	0	0	1	161
23:00	1	101	8	3	4	0	0	0	0	0	0	0	0	1	118
Total	210	8845	1107	139	273	26	6	48	22	1	5	0	3	202	10887
Percent	1.9%	81.2%	10.2%	1.3%	2.5%	0.2%	0.1%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	1.9%	
AM Peak	11:00	11:00	11:00	08:00	09:00	09:00	11:00	09:00	10:00				10:00	11:00	
Vol.	23	565	90	12	29	3	2	8	6				2	14	
PM Peak	15:00	17:00	17:00	15:00	15:00	13:00	14:00	13:00	13:00	14:00	12:00		12:00	15:00	
Vol.	34	842	104	13	24	6	2	6	2	1	2		1	29	

City of Burlington
Transportation Services

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Plains Rd West
btwn Downsview Dr and Dovercourt Ave

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/07/20	0	60	6	3	2	0	0	0	0	0	0	0	0	0	71
01:00	0	37	1	0	0	0	0	0	0	0	0	0	0	0	38
02:00	0	23	4	1	0	0	0	0	0	0	0	0	0	0	28
03:00	0	11	3	2	0	0	0	0	0	0	0	0	0	0	16
04:00	0	10	3	1	0	0	0	0	0	0	0	0	0	0	14
05:00	1	19	5	0	0	0	0	0	0	0	0	0	0	0	25
06:00	2	71	20	1	2	0	0	0	1	0	0	0	0	0	97
07:00	1	128	21	4	4	0	0	1	0	0	0	0	0	1	160
08:00	2	228	31	4	11	1	0	0	0	0	0	0	0	4	281
09:00	8	454	72	5	7	0	0	0	0	0	0	0	0	6	552
10:00	17	589	80	3	17	1	1	2	0	0	0	0	0	11	721
11:00	18	712	85	3	22	2	1	7	0	0	0	0	0	14	864
12 PM	26	751	67	4	16	1	1	6	0	0	0	0	0	16	888
13:00	19	769	67	4	14	2	0	3	0	0	0	0	1	20	899
14:00	43	756	72	2	9	1	1	2	0	0	0	0	0	15	901
15:00	32	846	69	4	12	1	0	2	0	0	0	0	0	16	982
16:00	25	733	64	3	9	3	2	2	0	0	1	0	0	17	859
17:00	22	633	63	5	13	0	0	1	0	0	0	0	0	17	754
18:00	15	513	46	4	12	3	0	0	0	0	0	0	0	3	596
19:00	2	333	35	4	7	0	0	0	0	0	0	0	0	4	385
20:00	3	241	28	2	4	0	0	0	0	0	0	0	0	2	280
21:00	0	214	15	2	1	1	0	0	0	0	0	0	0	0	233
22:00	2	146	10	3	4	0	0	0	0	0	0	0	0	1	166
23:00	0	82	7	2	1	0	0	0	0	0	0	0	0	0	92
Total	238	8359	874	66	167	16	6	26	1	0	1	0	1	147	9902
Percent	2.4%	84.4%	8.8%	0.7%	1.7%	0.2%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	11:00	11:00	11:00	09:00	11:00	11:00	10:00	11:00	06:00					11:00	
Vol.	18	712	85	5	22	2	1	7	1					14	
PM Peak	14:00	15:00	14:00	17:00	12:00	16:00	16:00	12:00			16:00		13:00	13:00	
Vol.	43	846	72	5	16	3	2	6			1		1	20	

City of Burlington
Transportation Services

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Plains Rd West
btwn Downsview Dr and Dovercourt Ave

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/08/20	0	43	11	2	0	0	0	0	0	0	0	0	0	0	56
01:00	0	33	3	0	0	0	0	0	0	0	0	0	0	0	36
02:00	0	17	1	1	0	0	0	0	0	0	0	0	0	0	19
03:00	2	16	2	1	0	0	0	0	0	0	0	0	0	0	21
04:00	0	11	2	0	0	0	0	0	0	0	0	0	0	0	13
05:00	0	16	4	0	0	0	0	0	0	0	0	0	0	0	20
06:00	2	45	6	1	1	0	0	0	0	0	0	0	0	0	55
07:00	0	90	12	4	1	0	0	0	0	0	0	0	0	2	109
08:00	3	193	21	4	7	0	0	1	0	0	0	0	0	1	230
09:00	10	311	37	4	5	0	0	1	0	0	0	0	0	1	369
10:00	6	492	49	3	7	0	0	0	0	0	0	0	0	4	561
11:00	24	535	59	7	6	2	1	1	0	0	0	0	0	15	650
12 PM	24	744	74	5	5	2	1	7	1	0	0	0	0	15	878
13:00	31	748	85	4	10	0	1	5	0	0	0	0	0	16	900
14:00	33	730	63	5	5	3	0	1	0	0	2	0	0	14	856
15:00	30	726	57	3	13	0	2	2	0	0	0	0	0	18	851
16:00	24	621	55	2	9	0	0	1	1	0	1	0	0	17	731
17:00	19	557	59	5	10	0	0	2	0	0	0	0	0	8	660
18:00	4	363	29	3	6	0	0	1	0	0	0	0	0	4	410
19:00	4	283	25	3	7	0	0	0	0	0	0	0	0	0	322
20:00	0	193	25	2	2	0	0	1	0	0	0	0	0	1	224
21:00	2	107	11	4	1	0	0	0	0	0	0	0	0	0	125
22:00	2	88	12	0	3	0	0	0	0	0	0	0	0	0	105
23:00	0	49	4	1	1	0	0	0	1	0	0	0	0	1	57
Total	220	7011	706	64	99	7	5	23	3	0	3	0	0	117	8258
Percent	2.7%	84.9%	8.5%	0.8%	1.2%	0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	
AM Peak	11:00	11:00	11:00	11:00	08:00	11:00	11:00	08:00						11:00	
Vol.	24	535	59	7	7	2	1	1						15	
PM Peak	14:00	13:00	13:00	12:00	15:00	14:00	15:00	12:00	12:00		14:00			15:00	
Vol.	33	748	85	5	13	3	2	7	1		2			18	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/09/20	0	25	3	0	0	0	0	0	0	0	0	0	0	0	28
01:00	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
02:00	0	10	2	1	0	0	0	0	0	0	0	0	0	0	13
03:00	0	8	3	1	1	1	0	0	0	0	0	0	0	0	14
04:00	0	12	1	0	0	0	0	0	0	0	0	0	0	0	13
05:00	0	62	20	3	3	0	0	0	0	0	0	0	0	1	89
06:00	3	122	23	9	7	1	0	1	0	0	0	0	0	1	167
07:00	8	225	54	12	21	4	0	2	2	0	0	0	0	2	330
08:00	6	376	58	10	24	2	1	4	4	0	0	0	0	2	487
09:00	7	389	61	11	20	4	1	2	1	0	2	0	0	6	504
10:00	16	457	63	4	20	6	0	1	4	0	1	0	0	9	581
11:00	18	557	55	8	20	5	0	2	4	0	0	0	0	10	679
12 PM	17	654	68	6	21	3	3	6	3	0	0	0	0	7	788
13:00	12	638	74	6	26	2	0	3	3	0	0	0	0	14	778
14:00	14	696	71	6	18	2	2	3	1	0	2	0	1	14	830
15:00	20	726	89	11	30	2	1	5	2	0	0	0	2	16	904
16:00	15	800	108	8	23	3	1	5	2	0	1	0	1	24	991
17:00	14	813	90	7	16	0	1	5	0	0	0	0	0	21	967
18:00	12	443	53	7	9	1	0	0	0	0	0	0	0	6	531
19:00	3	353	37	4	9	0	0	0	1	0	0	0	1	4	412
20:00	1	241	21	5	2	0	0	0	0	0	0	0	0	1	271
21:00	4	127	11	4	2	0	0	0	0	0	0	0	0	0	148
22:00	3	104	7	4	0	0	0	0	0	0	0	0	0	0	118
23:00	0	47	5	4	1	0	0	0	0	0	0	0	0	0	57
Total	173	7899	977	131	273	36	10	39	27	0	6	0	5	138	9714
Percent	1.8%	81.3%	10.1%	1.3%	2.8%	0.4%	0.1%	0.4%	0.3%	0.0%	0.1%	0.0%	0.1%	1.4%	
AM Peak	11:00	11:00	10:00	07:00	08:00	10:00	08:00	08:00	08:00		09:00			11:00	
Vol.	18	557	63	12	24	6	1	4	4		2			10	
PM Peak	15:00	17:00	16:00	15:00	15:00	12:00	12:00	12:00	12:00		14:00		15:00	16:00	
Vol.	20	813	108	11	30	3	3	6	3		2		2	24	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/10/20	0	25	6	3	0	0	0	0	0	0	0	0	0	0	34
01:00	0	12	0	0	1	0	0	0	0	0	0	0	0	0	13
02:00	0	18	2	0	0	0	0	0	0	0	0	0	0	0	20
03:00	0	7	1	2	0	0	0	0	0	0	0	0	0	0	10
04:00	0	9	6	0	0	0	0	0	0	0	0	0	0	0	15
05:00	0	45	17	4	3	0	0	1	0	0	0	0	0	0	70
06:00	1	121	23	7	6	0	0	1	0	0	0	0	0	2	161
07:00	3	262	52	11	18	2	0	2	2	0	0	0	0	8	360
08:00	13	384	66	12	24	3	0	6	2	0	1	0	0	11	522
09:00	14	386	55	9	15	4	0	7	3	0	0	0	0	5	498
10:00	12	493	61	8	17	3	0	2	1	0	0	0	0	7	604
11:00	17	579	74	6	28	2	1	2	1	0	0	0	0	14	724
12 PM	23	609	78	10	17	2	1	8	2	0	0	0	0	6	756
13:00	19	620	70	10	31	4	3	10	4	0	0	0	0	15	786
14:00	24	707	78	6	27	1	1	2	4	0	0	0	0	15	865
15:00	43	760	86	11	39	2	1	4	1	0	0	0	0	29	976
16:00	29	908	110	12	27	2	2	7	0	0	0	0	1	35	1133
17:00	23	767	125	5	21	5	1	2	0	0	1	0	0	22	972
18:00	16	553	57	6	14	1	0	1	0	0	0	0	0	9	657
19:00	9	385	31	3	6	0	0	0	0	0	0	0	0	4	438
20:00	1	257	26	6	9	3	0	0	0	0	0	0	0	1	303
21:00	2	165	13	4	5	0	0	0	0	0	0	0	0	0	189
22:00	1	103	6	4	0	0	0	0	0	0	0	0	0	0	114
23:00	0	64	7	4	0	0	0	0	0	0	0	0	0	0	75
Total	250	8239	1050	143	308	34	10	55	20	0	2	0	1	183	10295
Percent	2.4%	80.0%	10.2%	1.4%	3.0%	0.3%	0.1%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	1.8%	
AM Peak	11:00	11:00	11:00	08:00	11:00	09:00	11:00	09:00	09:00		08:00			11:00	
Vol.	17	579	74	12	28	4	1	7	3		1			14	
PM Peak	15:00	16:00	17:00	16:00	15:00	17:00	13:00	13:00	13:00		17:00		16:00	16:00	
Vol.	43	908	125	12	39	5	3	10	4		1		1	35	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/11/20	2	34	6	3	1	0	0	0	0	0	0	0	0	0	46
01:00	0	20	4	1	0	0	0	0	0	0	0	0	0	0	25
02:00	0	13	2	1	1	0	0	0	0	0	0	0	0	0	17
03:00	0	11	1	0	0	0	0	0	0	0	0	0	0	0	12
04:00	0	8	6	1	0	0	0	0	0	0	0	0	0	0	15
05:00	0	63	14	3	2	0	0	0	0	0	0	0	0	1	83
06:00	0	126	25	6	5	0	0	2	0	0	0	0	0	1	165
07:00	2	248	59	8	17	2	0	2	3	0	0	0	0	6	347
08:00	6	351	54	11	22	3	1	3	3	0	0	0	0	8	462
09:00	10	383	46	11	19	1	1	0	3	0	0	0	0	8	482
10:00	9	447	72	8	13	2	0	1	1	0	0	0	0	8	561
11:00	14	517	89	8	16	5	1	4	2	0	1	0	1	12	670
12 PM	16	700	61	7	16	1	2	6	2	0	0	0	0	21	832
13:00	12	682	71	4	21	2	1	5	4	0	0	0	0	22	824
14:00	21	700	94	3	14	2	0	6	2	0	0	0	0	16	858
15:00	21	785	82	16	32	2	1	6	3	1	0	0	0	21	970
16:00	33	839	94	8	34	1	1	8	2	0	0	0	0	22	1042
17:00	15	832	103	11	14	1	1	6	1	0	0	0	0	32	1016
18:00	8	564	60	6	12	1	0	1	0	0	0	0	0	9	661
19:00	3	380	33	5	7	0	0	0	0	0	0	0	0	6	434
20:00	2	268	28	3	5	0	0	0	0	0	0	0	0	1	307
21:00	1	156	16	4	2	0	0	0	0	0	0	0	0	0	179
22:00	0	88	7	4	1	0	0	0	0	0	0	0	0	0	100
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	175	8215	1027	132	254	23	9	50	26	1	1	0	1	194	10108
Percent	1.7%	81.3%	10.2%	1.3%	2.5%	0.2%	0.1%	0.5%	0.3%	0.0%	0.0%	0.0%	0.0%	1.9%	
AM Peak	11:00	11:00	11:00	08:00	08:00	11:00	08:00	11:00	07:00		11:00		11:00	11:00	
Vol.	14	517	89	11	22	5	1	4	3		1		1	12	
PM Peak	16:00	16:00	17:00	15:00	16:00	13:00	12:00	16:00	13:00	15:00				17:00	
Vol.	33	839	103	16	34	2	2	8	4	1				32	
Grand Total	1461	56673	6843	821	1648	165	63	296	126	5	25	0	13	1160	69299
Percent	2.1%	81.8%	9.9%	1.2%	2.4%	0.2%	0.1%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	1.7%	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/05/20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	1	28	3	4	1	0	0	0	0	0	0	0	0	0	37
03:00	0	20	8	1	1	0	0	0	0	0	0	0	0	0	30
04:00	0	34	13	2	0	1	0	0	0	1	0	0	0	0	51
05:00	2	138	32	14	6	0	0	0	0	0	0	0	0	0	192
06:00	6	350	92	12	29	0	0	2	0	0	0	0	0	1	492
07:00	23	730	176	24	42	7	0	9	3	1	1	0	1	13	1030
08:00	32	894	159	24	59	5	4	18	4	0	1	1	0	30	1231
09:00	29	891	163	15	53	5	0	15	3	0	1	0	1	21	1197
10:00	22	1031	148	10	40	3	0	13	5	0	1	0	2	23	1298
11:00	26	1148	150	17	40	4	0	16	4	0	2	0	0	35	1442
12 PM	40	1295	189	15	32	5	6	7	4	0	1	0	0	36	1630
13:00	24	1219	176	19	49	4	4	12	5	1	1	0	1	26	1541
14:00	42	1259	180	18	58	1	1	15	5	0	0	0	0	38	1617
15:00	49	1412	203	18	61	5	4	13	2	0	1	0	0	52	1820
16:00	47	1415	198	18	60	4	2	6	2	0	3	0	0	51	1806
17:00	28	1322	190	14	23	2	1	13	1	1	1	0	0	39	1635
18:00	9	935	109	12	22	1	2	2	0	0	0	0	0	11	1103
19:00	11	648	73	10	17	1	0	2	0	0	0	0	0	9	771
20:00	6	474	43	9	11	1	0	0	0	0	0	0	0	3	547
21:00	2	297	35	7	4	0	0	2	1	0	0	0	0	2	350
22:00	0	184	21	8	4	0	0	0	0	0	1	0	0	0	218
23:00	3	127	13	8	2	0	0	0	0	0	0	0	0	0	153
Total	402	15851	2374	279	614	49	24	145	39	4	14	1	5	390	20191
Percent	2.0%	78.5%	11.8%	1.4%	3.0%	0.2%	0.1%	0.7%	0.2%	0.0%	0.1%	0.0%	0.0%	1.9%	
AM Peak	08:00	11:00	07:00	07:00	08:00	07:00	08:00	08:00	10:00	04:00	11:00	08:00	10:00	11:00	
Vol.	32	1148	176	24	59	7	4	18	5	1	2	1	2	35	
PM Peak	15:00	16:00	15:00	13:00	15:00	12:00	12:00	14:00	13:00	13:00	16:00		13:00	15:00	
Vol.	49	1415	203	19	61	5	6	15	5	1	3		1	52	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/06/20	0	45	7	5	1	0	0	0	0	0	0	0	0	0	58
01:00	0	25	3	0	0	0	0	0	0	0	0	0	0	0	28
02:00	0	22	2	2	1	0	0	0	0	0	0	0	0	0	27
03:00	0	18	5	1	0	0	0	0	0	0	0	0	0	0	24
04:00	1	35	7	4	0	1	0	0	0	1	0	0	0	0	49
05:00	2	147	36	8	10	0	0	2	0	0	0	0	0	0	205
06:00	3	337	93	15	20	1	0	2	0	0	0	0	0	7	478
07:00	14	652	146	21	43	2	2	9	4	0	0	0	0	14	907
08:00	24	883	163	26	46	4	0	10	6	0	0	0	0	20	1182
09:00	25	921	160	18	57	6	0	12	5	0	0	0	0	20	1224
10:00	28	1075	156	16	40	2	1	7	7	0	0	0	2	17	1351
11:00	45	1214	181	16	53	6	2	9	4	0	1	0	0	29	1560
12 PM	32	1369	181	13	38	8	3	11	1	1	2	0	2	43	1704
13:00	30	1420	186	9	44	8	0	9	5	0	1	0	1	29	1742
14:00	45	1345	177	12	51	3	3	6	1	1	1	0	0	38	1683
15:00	60	1506	194	29	43	3	0	9	3	0	0	1	0	52	1900
16:00	52	1529	188	13	44	1	1	11	1	1	0	0	0	38	1879
17:00	45	1512	175	11	27	3	3	9	0	0	0	0	1	42	1828
18:00	11	1076	133	14	26	4	0	3	0	0	0	0	0	20	1287
19:00	10	766	97	14	16	3	0	0	0	0	1	0	0	11	918
20:00	3	607	61	8	12	0	0	0	0	0	0	0	0	10	701
21:00	4	378	34	8	7	0	0	0	0	0	0	0	0	1	432
22:00	2	276	23	9	0	0	0	0	0	0	0	0	0	1	311
23:00	1	174	16	7	5	0	0	0	0	0	0	0	0	1	204
Total	437	17332	2424	279	584	55	15	109	37	4	6	1	6	393	21682
Percent	2.0%	79.9%	11.2%	1.3%	2.7%	0.3%	0.1%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	1.8%	
AM Peak	11:00	11:00	11:00	08:00	09:00	09:00	07:00	09:00	10:00	04:00	11:00		10:00	11:00	
Vol.	45	1214	181	26	57	6	2	12	7	1	1		2	29	
PM Peak	15:00	16:00	15:00	15:00	14:00	12:00	12:00	12:00	13:00	12:00	12:00	15:00	12:00	15:00	
Vol.	60	1529	194	29	51	8	3	11	5	1	2	1	2	52	

City of Burlington
Transportation Services

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Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/07/20	0	102	13	4	4	0	0	0	0	0	0	0	0	0	123
01:00	0	66	3	1	1	0	0	0	0	0	0	0	0	1	72
02:00	0	43	5	2	1	0	0	0	0	0	0	0	0	0	51
03:00	0	19	5	3	0	0	0	0	0	0	0	0	0	0	27
04:00	0	17	6	2	0	0	0	0	0	0	0	0	0	0	25
05:00	1	52	15	2	0	0	0	0	0	0	0	0	0	0	70
06:00	3	174	38	1	6	0	0	2	1	0	0	0	0	0	225
07:00	3	290	52	9	10	0	0	1	0	0	0	0	0	1	366
08:00	6	513	84	8	19	3	0	1	0	0	0	0	0	6	640
09:00	11	876	132	10	25	0	0	2	0	0	0	0	0	15	1071
10:00	29	1210	170	6	33	2	2	5	0	0	0	0	0	23	1480
11:00	35	1448	173	7	38	2	2	9	1	0	0	0	0	27	1742
12 PM	44	1509	151	9	30	5	2	9	0	0	0	0	0	32	1791
13:00	39	1552	148	9	27	4	0	3	1	0	1	0	1	33	1818
14:00	76	1446	158	6	27	1	2	5	1	0	1	0	0	28	1751
15:00	54	1594	159	8	21	3	0	3	0	0	0	0	0	36	1878
16:00	52	1387	131	7	18	5	3	2	0	0	1	0	0	34	1640
17:00	31	1217	143	9	20	1	0	4	0	0	0	0	0	32	1457
18:00	26	911	92	8	23	3	0	0	0	0	0	0	0	10	1073
19:00	7	618	73	8	14	0	0	1	0	0	0	0	0	9	730
20:00	7	441	53	4	9	0	0	0	0	0	0	0	0	3	517
21:00	3	332	32	4	2	1	0	0	0	0	0	0	0	1	375
22:00	4	240	23	5	8	0	0	0	0	0	0	0	0	2	282
23:00	0	162	25	4	1	0	0	0	0	0	0	0	0	1	193
Total	431	16219	1884	136	337	30	11	47	4	0	3	0	1	294	19397
Percent	2.2%	83.6%	9.7%	0.7%	1.7%	0.2%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	11:00	11:00	11:00	09:00	11:00	08:00	10:00	11:00	06:00					11:00	
Vol.	35	1448	173	10	38	3	2	9	1					27	
PM Peak	14:00	15:00	15:00	12:00	12:00	12:00	16:00	12:00	13:00		13:00		13:00	15:00	
Vol.	76	1594	159	9	30	5	3	9	1		1		1	36	

City of Burlington
Transportation Services

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Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/08/20	1	87	17	3	0	0	0	0	0	0	0	0	0	1	109
01:00	2	61	12	0	0	0	0	0	0	0	0	0	0	0	75
02:00	0	30	2	1	1	0	0	0	0	0	0	0	0	0	34
03:00	2	23	4	2	0	0	0	0	0	0	0	0	0	0	31
04:00	0	24	7	0	0	0	0	0	0	0	0	0	0	0	31
05:00	0	43	5	2	0	0	0	0	0	0	0	0	0	1	51
06:00	4	103	14	1	4	1	0	0	0	0	0	0	0	1	128
07:00	0	211	35	8	4	0	0	0	0	0	0	0	0	3	261
08:00	6	391	50	8	15	0	1	1	0	0	0	0	0	1	473
09:00	16	624	83	8	16	0	1	1	1	0	0	0	0	2	752
10:00	16	974	124	7	13	1	0	2	0	0	0	0	0	6	1143
11:00	36	1138	128	11	14	4	1	3	0	0	1	0	0	33	1369
12 PM	51	1502	143	10	21	2	2	9	1	0	0	0	0	32	1773
13:00	58	1447	158	6	18	0	1	7	0	0	0	0	1	33	1729
14:00	68	1434	123	8	12	3	0	3	0	0	2	0	1	36	1690
15:00	69	1462	139	7	22	2	2	3	1	0	1	0	0	39	1747
16:00	45	1286	123	6	16	1	1	3	1	0	1	0	0	27	1510
17:00	38	1065	127	10	19	0	0	2	0	0	0	0	0	16	1277
18:00	7	643	59	7	11	0	0	1	0	0	0	0	0	5	733
19:00	5	506	62	7	10	0	0	1	0	0	0	0	0	1	592
20:00	2	340	37	4	3	0	0	1	1	0	0	0	0	3	391
21:00	3	199	30	6	4	0	0	0	0	0	0	0	0	0	242
22:00	2	168	23	1	7	0	0	0	0	0	0	0	0	1	202
23:00	0	88	6	2	1	0	0	0	1	0	0	0	0	1	99
Total	431	13849	1511	125	211	14	9	37	6	0	5	0	2	242	16442
Percent	2.6%	84.2%	9.2%	0.8%	1.3%	0.1%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	
AM Peak	11:00	11:00	11:00	11:00	09:00	11:00	08:00	11:00	09:00		11:00			11:00	
Vol.	36	1138	128	11	16	4	1	3	1		1			33	
PM Peak	15:00	12:00	13:00	12:00	15:00	14:00	12:00	12:00	12:00		14:00		13:00	15:00	
Vol.	69	1502	158	10	22	3	2	9	1		2		1	39	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/09/20	0	43	6	0	1	0	0	0	0	0	0	0	0	0	50
01:00	0	21	2	0	0	0	0	0	0	0	0	0	0	0	23
02:00	0	16	4	2	0	0	0	0	0	0	0	0	0	0	22
03:00	1	19	7	1	3	1	1	0	0	0	0	0	0	0	33
04:00	0	29	5	2	0	0	0	0	0	0	0	0	0	0	36
05:00	4	140	40	10	7	0	0	0	0	0	0	0	0	1	202
06:00	7	356	76	17	25	3	0	4	1	2	0	0	0	3	494
07:00	21	624	142	23	44	6	2	6	4	0	1	0	2	6	881
08:00	16	831	147	26	64	5	3	14	4	0	0	0	0	12	1122
09:00	16	866	132	17	37	6	2	8	1	1	2	0	1	19	1108
10:00	22	984	154	12	45	11	1	4	4	0	1	0	1	24	1263
11:00	38	1148	130	20	33	8	1	10	5	0	0	0	0	18	1411
12 PM	38	1225	153	10	56	7	3	20	5	1	0	0	0	26	1544
13:00	25	1214	170	17	48	4	2	12	3	0	0	0	0	19	1514
14:00	36	1257	147	14	32	6	4	9	2	0	2	0	1	22	1532
15:00	43	1335	187	18	59	4	2	10	2	0	0	0	2	31	1693
16:00	41	1378	183	17	43	6	2	8	2	0	1	0	1	39	1721
17:00	30	1388	163	14	27	1	1	6	0	0	0	0	0	32	1662
18:00	15	811	96	14	16	3	0	2	0	0	0	0	0	9	966
19:00	5	617	69	8	15	0	0	0	2	0	0	0	1	8	725
20:00	1	418	41	9	6	0	0	0	0	0	0	0	0	3	478
21:00	6	226	19	8	7	0	0	0	0	0	0	0	0	0	266
22:00	3	184	17	8	1	0	0	0	0	0	0	0	0	0	213
23:00	0	97	10	8	3	0	0	0	0	0	0	0	0	0	118
Total	368	15227	2100	275	572	71	24	113	35	4	7	0	9	272	19077
Percent	1.9%	79.8%	11.0%	1.4%	3.0%	0.4%	0.1%	0.6%	0.2%	0.0%	0.0%	0.0%	0.0%	1.4%	
AM Peak	11:00	11:00	10:00	08:00	08:00	10:00	08:00	08:00	11:00	06:00	09:00		07:00	10:00	
Vol.	38	1148	154	26	64	11	3	14	5	2	2		2	24	
PM Peak	15:00	17:00	15:00	15:00	15:00	12:00	14:00	12:00	12:00	12:00	14:00		15:00	16:00	
Vol.	43	1388	187	18	59	7	4	20	5	1	2		2	39	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/10/20	1	49	9	5	0	0	0	0	0	0	0	0	0	0	64
01:00	0	23	0	0	2	0	0	0	0	0	0	0	0	0	25
02:00	0	32	3	1	2	0	0	0	0	0	0	0	0	0	38
03:00	0	17	2	2	0	0	0	0	0	0	0	0	0	0	21
04:00	0	26	10	1	0	0	0	0	0	1	0	0	0	0	38
05:00	3	133	41	12	8	0	0	2	0	0	0	0	0	0	199
06:00	5	344	74	16	18	0	0	3	0	0	0	0	0	4	464
07:00	16	702	143	23	45	4	1	10	2	1	0	0	0	13	960
08:00	33	881	158	24	53	4	2	17	3	0	1	0	2	23	1201
09:00	28	873	129	15	42	7	1	16	4	2	2	0	0	17	1136
10:00	26	989	141	16	29	6	0	8	1	1	0	0	0	23	1240
11:00	34	1200	158	13	48	8	1	6	2	0	1	0	0	34	1505
12 PM	36	1231	173	19	32	4	2	14	3	0	1	0	0	40	1555
13:00	40	1215	140	18	51	7	3	18	4	1	0	0	0	35	1532
14:00	55	1301	152	16	47	1	2	9	5	1	0	0	0	39	1628
15:00	61	1420	197	23	68	5	2	8	1	0	1	0	0	52	1838
16:00	52	1529	188	18	54	3	3	8	0	0	0	0	1	53	1909
17:00	40	1366	187	13	34	6	1	6	0	0	1	0	1	35	1690
18:00	25	946	109	12	26	3	0	3	0	0	1	0	0	16	1141
19:00	9	644	74	7	14	0	0	0	0	0	0	0	0	7	755
20:00	5	448	43	9	14	4	0	0	1	0	0	0	0	3	527
21:00	12	280	25	8	8	0	0	0	0	0	0	0	0	1	334
22:00	3	195	14	9	2	0	0	0	0	0	0	0	0	0	223
23:00	4	122	13	7	3	0	0	0	0	0	0	0	0	0	149
Total	488	15966	2183	287	600	62	18	128	26	7	8	0	4	395	20172
Percent	2.4%	79.1%	10.8%	1.4%	3.0%	0.3%	0.1%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%	2.0%	
AM Peak	11:00	11:00	08:00	08:00	08:00	11:00	08:00	08:00	09:00	09:00	09:00		08:00	11:00	
Vol.	34	1200	158	24	53	8	2	17	4	2	2		2	34	
PM Peak	15:00	16:00	15:00	15:00	15:00	13:00	13:00	13:00	14:00	13:00	12:00		16:00	16:00	
Vol.	61	1529	197	23	68	7	3	18	5	1	1		1	53	

City of Burlington
Transportation Services

Site Code: 219620

Plains Rd West
btwn Downsview Dr and Dovercourt Ave

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Not Classed	Total
11/11/20	2	54	9	5	1	0	0	0	0	0	0	0	0	0	71
01:00	0	35	7	1	0	0	0	0	0	0	0	0	0	0	43
02:00	1	29	2	2	2	0	0	0	0	0	0	0	0	0	36
03:00	0	26	3	0	0	0	0	0	0	0	0	0	0	0	29
04:00	0	20	13	3	0	0	0	0	0	0	0	0	0	0	36
05:00	2	154	40	8	6	1	0	1	0	0	0	0	0	1	213
06:00	3	359	88	13	18	1	0	7	1	0	0	0	0	5	495
07:00	10	660	130	17	49	6	1	12	5	0	1	0	0	14	905
08:00	24	867	142	24	55	4	5	8	5	1	1	0	0	11	1147
09:00	24	837	122	18	37	2	2	5	6	0	0	0	0	22	1075
10:00	29	939	144	16	28	2	0	4	1	0	1	0	0	15	1179
11:00	30	1136	182	16	41	7	2	6	3	0	1	0	3	35	1462
12 PM	41	1400	162	20	46	6	3	11	3	1	0	0	1	41	1735
13:00	30	1414	168	13	51	6	5	10	5	0	0	0	1	48	1751
14:00	32	1335	162	12	36	3	2	12	3	0	1	0	0	36	1634
15:00	43	1418	182	26	50	5	2	13	4	1	1	0	0	43	1788
16:00	54	1500	176	15	53	4	2	12	2	0	0	0	0	33	1851
17:00	22	1397	165	17	32	1	1	7	1	0	1	0	0	41	1685
18:00	8	978	119	12	20	1	0	1	0	0	0	0	0	15	1154
19:00	4	670	74	8	11	0	0	0	0	0	0	0	0	10	777
20:00	5	449	51	7	10	0	0	0	0	0	0	0	0	3	525
21:00	5	283	31	7	4	0	0	1	0	0	0	0	0	1	332
22:00	0	167	12	9	2	0	0	0	0	0	0	0	0	0	190
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	369	16127	2184	269	552	49	25	110	39	3	7	0	5	374	20113
Percent	1.8%	80.2%	10.9%	1.3%	2.7%	0.2%	0.1%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	1.9%	
AM Peak	11:00	11:00	11:00	08:00	08:00	11:00	08:00	07:00	09:00	08:00	07:00		11:00	11:00	
Vol.	30	1136	182	24	55	7	5	12	6	1	1		3	35	
PM Peak	16:00	16:00	15:00	15:00	16:00	12:00	13:00	15:00	13:00	12:00	14:00		12:00	13:00	
Vol.	54	1500	182	26	53	6	5	13	5	1	1		1	48	
Grand Total	2926	110571	14660	1650	3470	330	126	689	186	22	50	2	32	2360	137074
Percent	2.1%	80.7%	10.7%	1.2%	2.5%	0.2%	0.1%	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%	1.7%	

Transportation Noise (Day/Night):

O R N A M E N T - 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 Absorption G	PWL (dBA)	Source Height, s (m)	Reference Leq (dBA)
Plains_avg	Plains Road East	Daytime Impacts	60	16	39400	95.1%	3.8%	1.1%	37470	1497	433	0	0.00	**86.3**	**1.0**	**71.3**
		Night-time Impacts	60	8	2074	95.1%	3.8%	1.1%	1972	79	23	0	0.00	**76.6**	**1.0**	**61.5**
Downsview_avg	Downsview Drive	Daytime Impacts	40	16	2264	98.0%	1.0%	1.0%	2218	23	23	0	0.00	**68.9**	**1.0**	**53.9**
		Night-time Impacts	40	8	252	98.0%	1.0%	1.0%	246	3	3	0	0.00	**62.4**	**1.0**	**47.3**

Appendix C

STAMSON Output File

Environmental Noise Assessment

335 Plains Holdings Inc. & 355 Plains Holdings Inc.

Burlington, ON

SLR Project No.: 241.30424.0000

STAMSON 5.04 NORMAL REPORT Date: 08-02-2022 14:10:29
MINISTRY OF ENVIRONMENT CONSERVATION AND PARKS / NOISE ASSESSMENT

Filename: st5val.te Time Period: Day/Night 16/8 hours
Description: STAMSON Validation File - Sample Calculation

Road data, segment # 1: Plains Rd E (day/night)

Car traffic volume : 37470/1972 veh/TimePeriod
Medium truck volume : 1497/79 veh/TimePeriod
Heavy truck volume : 433/23 veh/TimePeriod
Posted speed limit : 60 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: Plains Rd E (day/night)

Angle1 Angle2 : -90.00 deg 90.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0 / 0
Surface : 2 (Reflective ground surface)
Receiver source distance : 21.20 / 21.20 m
Receiver height : 1.50 / 1.50 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Road data, segment # 2: Downsview (day/night)

Car traffic volume : 2218/246 veh/TimePeriod
Medium truck volume : 23/3 veh/TimePeriod
Heavy truck volume : 23/3 veh/TimePeriod
Posted speed limit : 40 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 2: Downsview (day/night)

Angle1 Angle2 : -21.00 deg 0.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0 / 0
Surface : 2 (Reflective ground surface)
Receiver source distance : 55.90 / 55.90 m
Receiver height : 1.50 / 1.50 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Results segment # 1: Plains Rd E (day)

Source height = 1.02 m

ROAD (0.00 + 69.76 + 0.00) = 69.76 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	71.26	0.00	-1.50	0.00	0.00	0.00	0.00	69.76

Segment Leq : 69.76 dBA

Results segment # 2: Downsview (day)

Source height = 1.00 m

ROAD (0.00 + 38.86 + 0.00) = 38.86 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-21	0	0.00	53.90	0.00	-5.71	-9.33	0.00	0.00	0.00	38.86

Segment Leq : 38.86 dBA

Total Leq All Segments: 69.76 dBA

Results segment # 1: Plains Rd E (night)

Source height = 1.03 m

ROAD (0.00 + 60.00 + 0.00) = 60.00 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	61.50	0.00	-1.50	0.00	0.00	0.00	0.00	60.00

Segment Leq : 60.00 dBA

Results segment # 2: Downsview (night)

Source height = 1.04 m

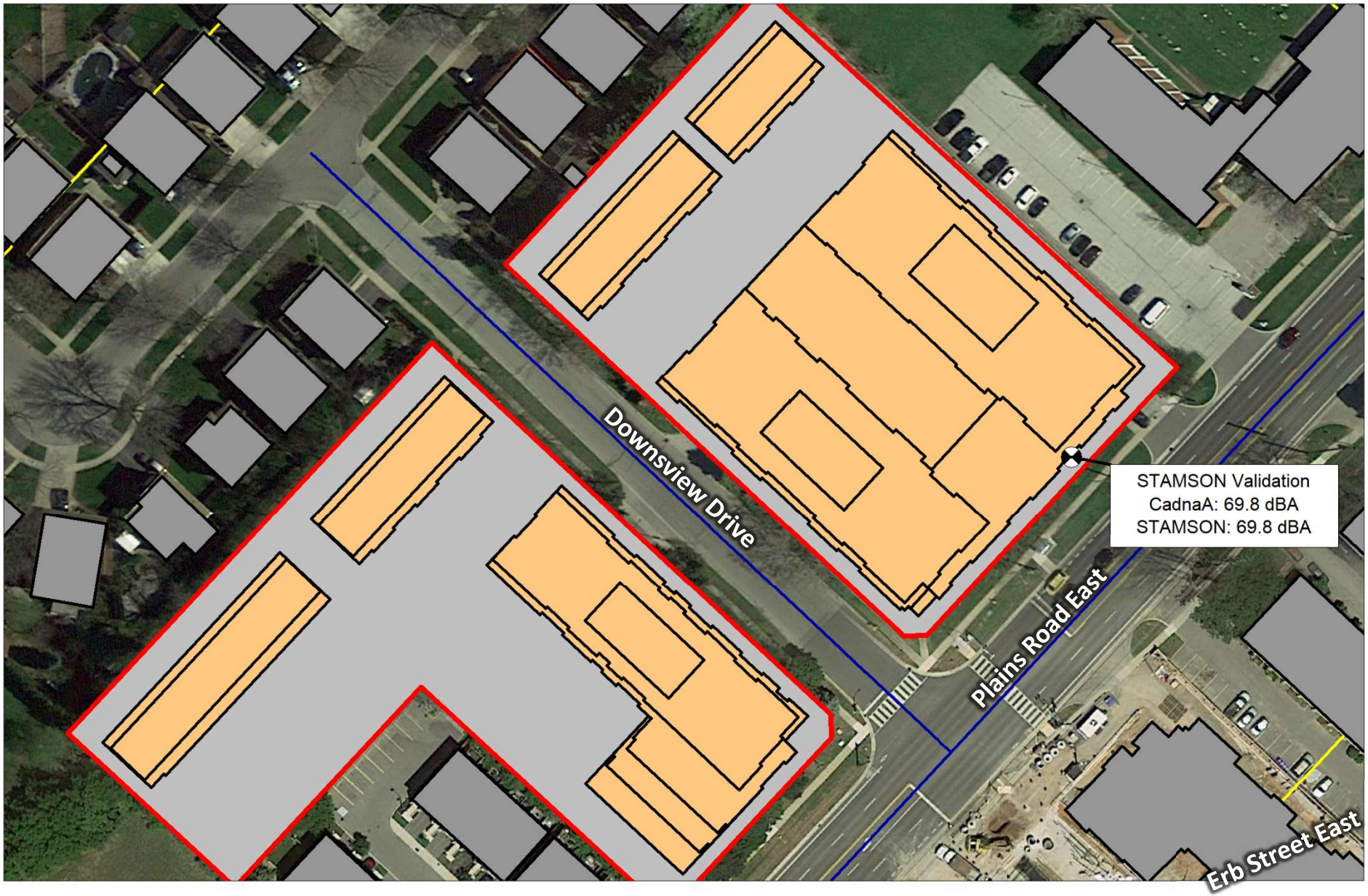
ROAD (0.00 + 32.69 + 0.00) = 32.69 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-21	0	0.00	47.74	0.00	-5.71	-9.33	0.00	0.00	0.00	32.69

Segment Leq : 32.69 dBA

Total Leq All Segments: 60.01 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 69.76
(NIGHT): 60.01



335 PLAINS HOLDINGS INC. & 355 PLAINS HOLDINGS INC.	True North	Scale: 1:1000	METRES
1010 DOWNSVIEW DRIVE & 355 PLAINS ROAD EAST, BURLINGTON		Date: May 4, 2022 Rev 1.0	Figure No. **C1**
COMPARISON OF CADNA/A AND STAMSON – ROAD NOISE		Project No. 241.30424.00000	

SLR global environmental solutions

Appendix D

Detailed Façade Calculations

Environmental Noise Assessment

335 Plains Holdings Inc. & 355 Plains Holdings Inc.

Burlington, ON

SLR Project No.: 241.30424.00000

Appendix D – Detailed Façade Calculations

BPN 56 Calculation Procedure - Required Glazing STC Rating (Fixed Veneer)

1010 Downsview Drive & 355 Plains Road East, Burlington, Project # 241.30424.00000

Receptor ID	Source Description	Sound Levels		Room / Façade Inputs					Source Inputs		Veneer - Component 1		Glazing - Component 2	
		Façade Sound Level: (dBA)	Required Indoor Sound Level: (dBA)	Glazing as % of Wall Area	Exposed Wall Height (m)	Exposed Wall Length (m)	Room Depth (m)	Room Absorption:	Incident Sound Angle: (deg)	Spectrum type:	Assumed Veneer STC (STC)	Component Category:	Component Category:	Require Glazing STC (STC)
DAYTIME														
1010 Downsview Dr - Tower S - LR/DR	Roadways, Daytime	70	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	28
1010 Downsview Dr - Tower E - LR/DR	Roadways, Daytime	66	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	24
1010 Downsview Dr - Tower W - LR/DR	Roadways, Daytime	66	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	24
1010 Downsview Dr - Tower S - BR	Roadways, Daytime	70	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	30
1010 Downsview Dr - Tower E - BR	Roadways, Daytime	66	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	26
1010 Downsview Dr - Tower W - BR	Roadways, Daytime	66	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	26
355 Plains Rd E - Podium S - LR/DR	Roadways, Daytime	70	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	28
355 Plains Rd E - Podium E - LR/DR	Roadways, Daytime	66	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	24
355 Plains Rd E - Podium W - LR/DR	Roadways, Daytime	66	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	24
355 Plains Rd E - Podium S - BR	Roadways, Daytime	70	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	30
355 Plains Rd E - Podium E - BR	Roadways, Daytime	66	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	26
355 Plains Rd E - Podium W - BR	Roadways, Daytime	66	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	26
355 Plains Rd E - W Tower S - LR/DR	Roadways, Daytime	68	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	26
355 Plains Rd E - W Tower S - BR	Roadways, Daytime	68	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	28
355 Plains Rd E - E Tower S - LR/DR	Roadways, Daytime	68	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	26
355 Plains Rd E - E Tower S - BR	Roadways, Daytime	68	45	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	28
NIGHT-TIME														
1010 Downsview Dr - Tower S - LR/DR	Roadways, Night-time	60	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	18
1010 Downsview Dr - Tower E - LR/DR	Roadways, Night-time	57	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	15
1010 Downsview Dr - Tower W - LR/DR	Roadways, Night-time	56	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	14
1010 Downsview Dr - Tower S - BR	Roadways, Night-time	60	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	25
1010 Downsview Dr - Tower E - BR	Roadways, Night-time	57	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	22
1010 Downsview Dr - Tower W - BR	Roadways, Night-time	56	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	21
355 Plains Rd E - Podium S - LR/DR	Roadways, Night-time	60	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	18
355 Plains Rd E - Podium E - LR/DR	Roadways, Night-time	56	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	14
355 Plains Rd E - Podium W - LR/DR	Roadways, Night-time	56	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	14
355 Plains Rd E - Podium S - BR	Roadways, Night-time	60	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	25
355 Plains Rd E - Podium E - BR	Roadways, Night-time	56	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	21
355 Plains Rd E - Podium W - BR	Roadways, Night-time	56	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	21
355 Plains Rd E - W Tower S - LR/DR	Roadways, Night-time	58	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	16
355 Plains Rd E - W Tower S - BR	Roadways, Night-time	58	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	23
355 Plains Rd E - E Tower S - LR/DR	Roadways, Night-time	58	45	70%	2.8	3.0	6.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	16
355 Plains Rd E - E Tower S - BR	Roadways, Night-time	58	40	50%	2.8	3.0	3.0	Intermediate	0 - 90	D. mixed road traffic, distant aircraft	43	D. sealed thick window, or exterior wall, or roof/ceiling	C. sealed thin window, or openable thick window	23

Appendix E

Ventilation, Warning Clause and Barrier Summary

Environmental Noise Assessment

335 Plains Holdings Inc. & 355 Plains Holdings Inc.

Burlington, ON

SLR Project No.: 241.30424.0000

Ventilation, Warning Clause and Barrier Summary

The following Warning Clauses are recommended for inclusion in agreements registered on Title for the residential units, and included in all agreements of purchase and sale or lease, and all rental agreements.

A summary of the Warning Clause and Ventilation Requirements is included in Table E1 on the following page.

MECP Type C: " 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 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."

MECP Type D: " 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."

City of Burlington "OLA Clause": "Purchasers/tenants are advised that the private terrace/balcony of the unit is less than 4.0 m in depth and is not the only outdoor living area for the occupant; therefore, it is not required to have mitigation measures installed as outlined in NPC-300. Sound levels due to increasing road traffic and no mitigation measures may interfere with some activities of the dwelling occupants during use of the private terrace/balcony."

Table E1: Summary of Ventilation and Warning Clause and Barrier Requirements

Residential Units/Locations	Barrier Required	Air Conditioning Requirement [1]	Warning Clause
1010 Downsview Drive	-	Provision for AC	Type C
1010 Downsview Dr. – West Townhouse Block – North-facing units	-	Provision for AC	Type C
1010 Downsview Dr. – West Townhouse Block – South-facing units	-	Provision for AC	Type C, OLA Clause
1010 Downsview Dr. – East Townhouse Block – North-facing units	-	Provision for AC	Type C
1010 Downsview Dr. – East Townhouse Block – First Unit from East, South-facing unit	-	Provision for AC	Type C, OLA Clause
1010 Downsview Dr. – Mid-Rise Tower – South- & East -facing units	-	AC Required	Type D, OLA Clause
1010 Downsview Dr. – Mid-Rise Tower – West-facing units (southern portion of L-shape only)	-	AC Required	Type D, OLA Clause
1010 Downsview Dr. – Mid-Rise Tower – All other residential units	-	AC Required	Type D
1010 Downsview Dr. – 3rd Floor Common Amenity Terrace (OLA 3)	1.4 m parapet	-	-
355 Plains Road East			
355 Plains Rd. E. – West Townhouse Block – All units	-	Provision for AC	Type C
355 Plains Rd. E. – Podium – South-, East- and West-facing units on the outside of the building	-	AC Required	Type D, OLA Clause
355 Plains Rd. E. – West Tower – South- and West-facing units	-	AC Required	Type D, OLA Clause
355 Plains Rd. E – West Tower – First East-facing unit from the South	-	AC Required	Type D, OLA Clause
355 Plains Rd. E. – East Tower – South- and East-facing units	-	AC Required	Type D, OLA Clause
355 Plains Rd. E. – East Tower – First West-facing unit from the South	-	AC Required	Type D, OLA Clause
355 Plains Rd. E. – All other residential units	-	AC Required	Type D
355 Plains Rd. E. – West Tower – Unit with access to private Southwest rooftop terrace	-	-	OLA Clause
355 Plains Rd. E. – East Tower – Units with access to private Southeast and Northeast rooftop terraces	-	-	OLA Clause

Notes: [1] Provision for AC = forced air heating with a provision for installation of central air conditioning.

Appendix F

Stationary Source Modelling Data and Calculations

Environmental Noise Assessment

335 Plains Holdings Inc. & 355 Plains Holdings Inc.

Burlington, ON

SLR Project No.: 241.30424.00000

Appendix F - Stationary Source Modelling Data

Source Description	Maximum Sound Power Level, dB (1/1 Octave Bands)									Modelled PWL (dBA)	Source Notes
	31.5	63	125	250	500	1000	2000	4000	8000		
CN Aldershot Yard - Continuous Noise											
Freight Locomotive Idling	117.1	112.8	108.7	96.8	103.3	101.7	98.5	91.9	89.0	106.0	Based on historical SLR data - Operates 60 minutes per hour during daytime/evening/night-time hours - Source height = 4.0 m above grade
CN Aldershot Yard - Impulsive Noise											
Freight Locomotive Knuckle Thumps		116.5	110.5	108.5	107.5	106.5	103.5	99.5	92.5	111.0	Based on historical SLR data - 9+ impulses during any day/evening/night-time hour - Source height = 1.0 m above grade

Receiver
Name: Sample Calc
ID: _SampleCalc
X: 593914.71 m
Y: 4796574.60 m
Z: 126.00 m

Point Source, ISO 9613, Name: "Idling CN Freight Locomotive", ID: "_SS"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1	593691.70	4796970.94	107.34	0	DEN	A	106.0	0.0	0.0	0.0	0.0	64.2	2.1	-1.2	0.0	0.0	0.0	0.0	0.0	41.0

Point Source, ISO 9613, Name: "Idling CN Freight Locomotive", ID: "_SS"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2	593623.92	4796932.78	107.00	0	DEN	A	106.0	0.0	0.0	0.0	0.0	64.3	2.1	-1.1	0.0	0.0	0.0	0.0	0.0	40.7

Point Source, ISO 9613, Name: "Idling CN Freight Locomotive", ID: "_SS"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
3	593556.56	4796893.64	107.00	0	DEN	A	106.0	0.0	0.0	0.0	0.0	64.6	2.2	-1.1	0.0	0.0	0.0	0.0	0.0	40.4

Receiver
Name: Sample Calc
ID: _SampleCalc
X: 593914.71 m
Y: 4796574.60 m
Z: 126.00 m

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1	593182.45	4796525.58	105.45	0	DEN	A	82.7	-5.3	0.0	0.0	0.0	68.3	3.2	1.0	0.0	0.0	3.8	0.0	0.0	1.2
2	593185.15	4796527.92	105.45	0	DEN	A	82.7	8.4	0.0	0.0	0.0	68.3	3.2	1.7	0.0	0.0	3.4	0.0	0.0	14.5
3	593190.78	4796532.81	105.44	0	DEN	A	82.7	9.1	0.0	0.0	0.0	68.2	3.2	1.7	0.0	0.0	3.4	0.0	0.0	15.3
4	593194.37	4796535.93	105.43	0	DEN	A	82.7	1.6	0.0	0.0	0.0	68.2	3.1	1.7	0.0	0.0	3.4	0.0	0.0	8.0
5	593197.27	4796538.44	105.43	0	DEN	A	82.7	7.9	0.0	0.0	0.0	68.1	3.1	1.7	0.0	0.0	3.4	0.0	0.0	14.3
6	593201.78	4796542.36	105.42	0	DEN	A	82.7	7.6	0.0	0.0	0.0	68.1	3.1	1.7	0.0	0.0	3.4	0.0	0.0	14.0
7	593206.29	4796546.26	105.41	0	DEN	A	82.7	7.9	0.0	0.0	0.0	68.0	3.1	1.7	0.0	0.0	3.4	0.0	0.0	14.4
8	593217.67	4796556.13	105.40	0	DEN	A	82.7	13.8	0.0	0.0	0.0	67.9	3.1	1.6	0.0	0.0	3.5	0.0	0.0	20.5
9	593229.27	4796566.20	105.38	0	DEN	A	82.7	8.3	0.0	0.0	0.0	67.7	3.0	1.6	0.0	0.0	3.5	0.0	0.0	15.2
10	593232.60	4796569.09	105.37	0	DEN	A	82.7	3.1	0.0	0.0	0.0	67.7	3.0	1.6	0.0	0.0	3.5	0.0	0.0	10.1
11	593233.78	4796570.11	105.37	0	DEN	A	82.7	0.3	0.0	0.0	0.0	67.7	3.0	1.6	0.0	0.0	3.5	0.0	0.0	7.3
12	593238.09	4796573.85	105.36	0	DEN	A	82.7	10.1	0.0	0.0	0.0	67.6	3.0	1.6	0.0	0.0	3.5	0.0	0.0	17.2
13	593244.34	4796579.27	105.35	0	DEN	A	82.7	7.9	0.0	0.0	0.0	67.5	3.0	1.6	0.0	0.0	3.5	0.0	0.0	15.1
14	593248.34	4796582.74	105.35	0	DEN	A	82.7	6.4	0.0	0.0	0.0	67.5	3.0	1.6	0.0	0.0	3.5	0.0	0.0	13.6
15	593251.98	4796585.90	105.34	0	DEN	A	82.7	7.2	0.0	0.0	0.0	67.4	3.0	1.6	0.0	0.0	3.5	0.0	0.0	14.5
16	593257.07	4796590.32	105.33	0	DEN	A	82.7	9.1	0.0	0.0	0.0	67.4	2.9	1.5	0.0	0.0	3.5	0.0	0.0	16.5
17	593262.27	4796594.83	105.32	0	DEN	A	82.7	7.4	0.0	0.0	0.0	67.3	2.9	1.5	0.0	0.0	3.5	0.0	0.0	14.9
18	593268.62	4796600.33	105.31	0	DEN	A	82.7	10.5	0.0	0.0	0.0	67.2	2.9	1.5	0.0	0.0	3.5	0.0	0.0	18.1
19	593276.74	4796607.38	105.30	0	DEN	A	82.7	10.1	0.0	0.0	0.0	67.1	2.9	1.5	0.0	0.0	3.6	0.0	0.0	17.8
20	593283.51	4796613.25	105.29	0	DEN	A	82.7	8.8	0.0	0.0	0.0	67.0	2.9	1.5	0.0	0.0	3.6	0.0	0.0	16.6
21	593287.86	4796617.03	105.28	0	DEN	A	82.7	5.9	0.0	0.0	0.0	67.0	2.8	1.5	0.0	0.0	3.6	0.0	0.0	13.8
22	593289.37	4796618.34	105.28	0	DEN	A	82.7	-9.1	0.0	0.0	0.0	66.9	2.8	1.5	0.0	0.0	3.6	0.0	0.0	-1.2
23	593292.61	4796621.14	105.28	0	DEN	A	82.7	9.3	0.0	0.0	0.0	66.9	2.8	1.5	0.0	0.0	3.6	0.0	0.0	17.2
24	593296.17	4796624.24	105.27	0	DEN	A	82.7	-0.0	0.0	0.0	0.0	66.9	2.8	1.5	0.0	0.0	3.6	0.0	0.0	8.0
25	593298.40	4796626.18	105.27	0	DEN	A	82.7	6.9	0.0	0.0	0.0	66.8	2.8	1.5	0.0	0.0	3.6	0.0	0.0	15.0
26	593302.23	4796629.49	105.26	0	DEN	A	82.7	7.2	0.0	0.0	0.0	66.8	2.8	1.4	0.0	0.0	3.6	0.0	0.0	15.3
27	593307.53	4796634.09	105.25	0	DEN	A	82.7	9.5	0.0	0.0	0.0	66.7	2.8	1.4	0.0	0.0	3.6	0.0	0.0	17.7
28	593313.69	4796639.44	105.24	0	DEN	A	82.7	8.7	0.0	0.0	0.0	66.6	2.8	1.4	0.0	0.0	3.6	0.0	0.0	17.1
29	593318.45	4796643.57	105.23	0	DEN	A	82.7	7.1	0.0	0.0	0.0	66.6	2.8	1.4	0.0	0.0	3.6	0.0	0.0	15.5
30	593321.09	4796645.85	105.23	0	DEN	A	82.7	2.7	0.0	0.0	0.0	66.5	2.7	1.2	0.0	0.0	3.7	0.0	0.0	11.2
31	593322.41	4796647.00	105.23	0	DEN	A	82.7	2.2	0.0	0.0	0.0	66.5	2.7	1.4	0.0	0.0	3.6	0.0	0.0	10.7
32	593325.04	4796649.28	105.22	0	DEN	A	82.7	7.2	0.0	0.0	0.0	66.5	2.7	1.2	0.0	0.0	3.7	0.0	0.0	15.9
33	593332.31	4796655.59	105.21	0	DEN	A	82.7	11.5	0.0	0.0	0.0	66.4	2.7	1.4	0.0	0.0	3.6	0.0	0.0	20.1
34	593338.84	4796661.25	105.20	0	DEN	A	82.7	5.2	0.0	0.0	0.0	66.3	2.7	1.4	0.0	0.0	3.6	0.0	0.0	13.9
35	593342.84	4796664.72	105.20	0	DEN	A	82.7	8.6	0.0	0.0	0.0	66.3	2.7	1.4	0.0	0.0	3.6	0.0	0.0	17.4
36	593347.27	4796668.57	105.19	0	DEN	A	82.7	6.5	0.0	0.0	0.0	66.2	2.7	1.2	0.0	0.0	3.7	0.0	0.0	15.4
37	593349.67	4796670.65	105.18	0	DEN	A	82.7	2.8	0.0	0.0	0.0	66.2	2.7	1.4	0.0	0.0	3.6	0.0	0.0	11.7
38	593351.18	4796671.96	105.18	0	DEN	A	82.7	3.2	0.0	0.0	0.0	66.2	2.7	1.2	0.0	0.0	3.7	0.0	0.0	12.2
39	593352.98	4796673.52	105.18	0	DEN	A	82.7	4.3	0.0	0.0	0.0	66.1	2.7	1.4	0.0	0.0	3.6	0.0	0.0	13.2
40	593356.05	4796676.18	105.17	0	DEN	A	82.7	7.4	0.0	0.0	0.0	66.1	2.6	1.4	0.0	0.0	3.7	0.0	0.0	16.3
41	593359.14	4796678.86	105.17	0	DEN	A	82.7	4.4	0.0	0.0	0.0	66.1	2.6	1.2	0.0	0.0	3.7	0.0	0.0	13.5
42	593360.58	4796680.11	105.17	0	DEN	A	82.7	0.3	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	3.7	0.0	0.0	9.4
43	593361.37	4796680.80	105.17	0	DEN	A	82.7	0.1	0.0	0.0	0.0	66.0	2.6	1.2	0.0	0.0	3.7	0.0	0.0	9.3
44	593362.35	4796681.65	105.16	0	DEN	A	82.7	2.0	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	3.7	0.0	0.0	11.1
45	593366.16	4796684.96	105.16	0	DEN	A	82.7	9.3	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	3.7	0.0	0.0	18.4
46	593371.09	4796689.23	105.15	0	DEN	A	82.7	6.6	0.0	0.0	0.0	65.9	2.6	1.2	0.0	0.0	3.7	0.0	0.0	15.9
47	593374.48	4796692.17	105.15	0	DEN	A	82.7	6.5	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	3.7	0.0	0.0	15.7
48	593376.43	4796693.86	105.14	0	DEN	A	82.7	-1.3	0.0	0.0	0.0	65.8	2.6	1.4	0.0	0.0	3.6	0.0	0.0	8.0
49	593376.95	4796694.31	105.14	0	DEN	A	82.7	-2.0	0.0	0.0	0.0	65.8	2.6	1.4	0.0	0.0	3.6	0.0	0.0	7.3
50	593377.46	4796694.76	105.14	0	DEN	A	82.7	-1.4	0.0	0.0	0.0	65.8	2.6	1.3	0.0	0.0	3.7	0.0	0.0	8.0
51	593378.01	4796695.23	105.14	0	DEN	A	82.7	-1.4	0.0	0.0	0.0	65.8	2.6	1.4	0.0	0.0	3.6	0.0	0.0	7.9
52	593378.52	4796695.68	105.14	0	DEN	A	82.7	-2.1	0.0	0.0	0.0	65.8	2.6	1.4	0.0	0.0	3.6	0.0	0.0	7.2

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
53	593378.97	4796696.06	105.14	0	DEN	A	82.7	-2.4	0.0	0.0	0.0	65.8	2.6	1.4	0.0	0.0	3.6	0.0	0.0	6.9
54	593381.94	4796698.65	105.13	0	DEN	A	82.7	8.6	0.0	0.0	0.0	65.8	2.6	1.4	0.0	0.0	3.6	0.0	0.0	18.0
55	593385.63	4796701.84	105.13	0	DEN	A	82.7	3.9	0.0	0.0	0.0	65.7	2.6	1.3	0.0	0.0	3.7	0.0	0.0	13.4
56	593387.50	4796703.46	105.12	0	DEN	A	82.7	4.0	0.0	0.0	0.0	65.7	2.6	1.3	0.0	0.0	3.7	0.0	0.0	13.5
57	593388.55	4796704.38	105.12	0	DEN	A	82.7	-5.1	0.0	0.0	0.0	65.7	2.6	1.4	0.0	0.0	3.7	0.0	0.0	4.4
58	593389.05	4796704.81	105.12	0	DEN	A	82.7	0.0	0.0	0.0	0.0	65.7	2.6	1.3	0.0	0.0	3.7	0.0	0.0	9.6
59	593390.82	4796706.35	105.12	0	DEN	A	82.7	5.7	0.0	0.0	0.0	65.7	2.5	1.4	0.0	0.0	3.7	0.0	0.0	15.1
60	593393.45	4796708.63	105.11	0	DEN	A	82.7	5.2	0.0	0.0	0.0	65.6	2.5	1.3	0.0	0.0	3.7	0.0	0.0	14.8
61	593395.10	4796710.06	105.11	0	DEN	A	82.7	0.2	0.0	0.0	0.0	65.6	2.5	1.3	0.0	0.0	3.7	0.0	0.0	9.9
62	593396.09	4796710.92	105.11	0	DEN	A	82.7	2.0	0.0	0.0	0.0	65.6	2.5	1.4	0.0	0.0	3.7	0.0	0.0	11.5
63	593396.95	4796711.66	105.11	0	DEN	A	82.7	-1.7	0.0	0.0	0.0	65.6	2.5	1.4	0.0	0.0	3.6	0.0	0.0	7.9
64	593397.41	4796712.06	105.11	0	DEN	A	82.7	-2.7	0.0	0.0	0.0	65.6	2.5	1.3	0.0	0.0	3.7	0.0	0.0	7.0
65	593400.49	4796714.74	105.10	0	DEN	A	82.7	8.8	0.0	0.0	0.0	65.5	2.5	1.4	0.0	0.0	3.7	0.0	0.0	18.4
66	593403.46	4796717.32	105.10	0	DEN	A	82.7	-6.2	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	3.7	0.0	0.0	3.5
67	593404.56	4796718.26	105.10	0	DEN	A	82.7	4.2	0.0	0.0	0.0	65.5	2.5	1.4	0.0	0.0	3.7	0.0	0.0	13.9
68	593406.13	4796719.63	105.09	0	DEN	A	82.7	1.8	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	3.7	0.0	0.0	11.6
69	593406.93	4796720.33	105.09	0	DEN	A	82.7	-2.1	0.0	0.0	0.0	65.5	2.5	1.4	0.0	0.0	3.7	0.0	0.0	7.6
70	593407.78	4796721.06	105.09	0	DEN	A	82.7	2.1	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	3.7	0.0	0.0	11.9
71	593411.55	4796724.33	105.09	0	DEN	A	82.7	9.2	0.0	0.0	0.0	65.4	2.5	1.3	0.0	0.0	3.7	0.0	0.0	19.1
72	593415.36	4796727.64	105.08	0	DEN	A	82.7	2.5	0.0	0.0	0.0	65.4	2.5	1.3	0.0	0.0	3.7	0.0	0.0	12.4
73	593418.73	4796730.57	105.07	0	DEN	A	82.7	8.6	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	3.6	0.0	0.0	18.4
74	593421.78	4796733.21	105.07	0	DEN	A	82.7	-0.4	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	3.6	0.0	0.0	9.5
75	593422.97	4796734.24	105.07	0	DEN	A	82.7	3.5	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	3.6	0.0	0.0	13.4
76	593424.92	4796735.93	105.06	0	DEN	A	82.7	4.7	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	3.6	0.0	0.0	14.6
77	593426.76	4796737.53	105.06	0	DEN	A	82.7	2.9	0.0	0.0	0.0	65.2	2.5	1.5	0.0	0.0	3.6	0.0	0.0	12.8
78	593428.34	4796738.90	105.06	0	DEN	A	82.7	3.5	0.0	0.0	0.0	65.2	2.5	1.5	0.0	0.0	3.6	0.0	0.0	13.5
79	593430.73	4796740.97	105.06	0	DEN	A	82.7	6.1	0.0	0.0	0.0	65.2	2.4	1.6	0.0	0.0	3.6	0.0	0.0	16.1
80	593433.45	4796743.33	105.05	0	DEN	A	82.7	4.9	0.0	0.0	0.0	65.2	2.4	1.5	0.0	0.0	3.6	0.0	0.0	15.0
81	593435.78	4796745.35	105.05	0	DEN	A	82.7	4.8	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	3.6	0.0	0.0	14.9
82	593437.54	4796746.88	105.04	0	DEN	A	82.7	2.1	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	3.6	0.0	0.0	12.2
83	593438.50	4796747.71	105.04	0	DEN	A	82.7	-0.3	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	3.6	0.0	0.0	9.8
84	593439.44	4796748.53	105.04	0	DEN	A	82.7	1.9	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	3.6	0.0	0.0	12.0
85	593441.55	4796750.36	105.04	0	DEN	A	82.7	6.1	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	3.6	0.0	0.0	16.2
86	593443.29	4796751.87	105.04	0	DEN	A	82.7	-2.5	0.0	0.0	0.0	65.0	2.4	1.5	0.0	0.0	3.6	0.0	0.0	7.7
87	593443.55	4796752.09	105.03	0	DEN	A	82.7	-9.9	0.0	0.0	0.0	65.0	2.4	1.5	0.0	0.0	3.6	0.0	0.0	0.3
88	593444.30	4796752.74	105.03	0	DEN	A	82.7	2.8	0.0	0.0	0.0	65.0	2.4	1.5	0.0	0.0	3.6	0.0	0.0	12.9
89	593447.06	4796755.14	105.03	0	DEN	A	82.7	7.3	0.0	0.0	0.0	65.0	2.4	1.5	0.0	0.0	3.6	0.0	0.0	17.5
90	593449.61	4796757.35	105.03	0	DEN	A	82.7	1.2	0.0	0.0	0.0	65.0	2.4	1.5	0.0	0.0	3.6	0.0	0.0	11.5
91	593453.69	4796760.89	105.02	0	DEN	A	82.7	9.8	0.0	0.0	0.0	64.9	2.4	1.5	0.0	0.0	3.6	0.0	0.0	20.1
92	593457.36	4796764.08	105.01	0	DEN	A	82.7	-6.3	0.0	0.0	0.0	64.9	2.4	1.5	0.0	0.0	3.6	0.0	0.0	4.0
93	593457.96	4796764.60	105.01	0	DEN	A	82.7	1.3	0.0	0.0	0.0	64.9	2.4	1.5	0.0	0.0	3.6	0.0	0.0	11.7
94	593458.69	4796765.23	105.01	0	DEN	A	82.7	-2.5	0.0	0.0	0.0	64.9	2.4	1.5	0.0	0.0	3.6	0.0	0.0	7.8
95	593459.72	4796766.12	105.01	0	DEN	A	82.7	3.4	0.0	0.0	0.0	64.9	2.4	1.5	0.0	0.0	3.6	0.0	0.0	13.8
96	593463.03	4796768.99	105.00	0	DEN	A	82.7	8.2	0.0	0.0	0.0	64.8	2.4	1.3	0.0	0.0	3.7	0.0	0.0	18.8
97	593466.29	4796771.82	105.00	0	DEN	A	82.7	3.1	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	3.6	0.0	0.0	13.6
98	593467.13	4796772.55	105.00	0	DEN	A	82.7	-7.1	0.0	0.0	0.0	64.8	2.4	1.3	0.0	0.0	3.7	0.0	0.0	3.5
99	593467.53	4796772.89	105.00	0	DEN	A	82.7	-0.7	0.0	0.0	0.0	64.8	2.4	1.3	0.0	0.0	3.7	0.0	0.0	9.9
100	593467.92	4796773.23	105.00	0	DEN	A	82.7	-7.4	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	3.6	0.0	0.0	3.1
101	593468.18	4796773.46	105.00	0	DEN	A	82.7	-2.8	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	3.6	0.0	0.0	7.7
102	593469.34	4796774.47	104.99	0	DEN	A	82.7	4.1	0.0	0.0	0.0	64.8	2.4	1.3	0.0	0.0	3.6	0.0	0.0	14.7
103	593471.61	4796776.43	104.99	0	DEN	A	82.7	5.4	0.0	0.0	0.0	64.8	2.4	1.3	0.0	0.0	3.7	0.0	0.0	16.0
104	593474.76	4796779.17	104.99	0	DEN	A	82.7	6.9	0.0	0.0	0.0	64.7	2.4	1.4	0.0	0.0	3.7	0.0	0.0	17.5
105	593476.95	4796781.06	104.98	0	DEN	A	82.7	-0.5	0.0	0.0	0.0	64.7	2.3	1.5	0.0	0.0	3.6	0.0	0.0	10.1
106	593477.96	4796781.94	104.98	0	DEN	A	82.7	2.5	0.0	0.0	0.0	64.7	2.3	1.5	0.0	0.0	3.6	0.0	0.0	13.1
107	593479.27	4796783.08	104.98	0	DEN	A	82.7	2.3	0.0	0.0	0.0	64.7	2.3	1.3	0.0	0.0	3.7	0.0	0.0	13.0
108	593480.42	4796784.08	104.98	0	DEN	A	82.7	1.4	0.0	0.0	0.0	64.7	2.3	1.5	0.0	0.0	3.6	0.0	0.0	12.0
109	593481.74	4796785.22	104.97	0	DEN	A	82.7	3.2	0.0	0.0	0.0	64.7	2.3	1.3	0.0	0.0	3.7	0.0	0.0	14.0
110	593484.00	4796787.18	104.97	0	DEN	A	82.7	5.9	0.0	0.0	0.0	64.6	2.3	1.3	0.0	0.0	3.7	0.0	0.0	16.6
111	593486.66	4796789.49	104.97	0	DEN	A	82.7	5.0	0.0	0.0	0.0	64.6	2.3	1.5	0.0	0.0	3.6	0.0	0.0	15.7
112	593488.77	4796791.33	104.96	0	DEN	A	82.7	3.9	0.0	0.0	0.0	64.6	2.3	1.5	0.0	0.0	3.6	0.0	0.0	14.6
113	593489.84	4796792.25	104.96	0	DEN	A	82.7	-4.3	0.0	0.0	0.0	64.6	2.3	1.4	0.0	0.0	3.7	0.0	0.0	6.5
114	593490.96	4796793.22	104.96	0	DEN	A	82.7	4.2	0.0	0.0	0.0	64.6	2.3	1.5	0.0	0.0	3.6	0.0	0.0	14.9
115	593492.11	4796794.22	104.96	0	DEN	A	82.7	-3.6	0.0	0.0	0.0	64.6	2.3	1.4	0.0	0.0	3.6	0.0	0.0	7.2

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
116	593492.94	4796794.94	104.96	0	DEN	A	82.7	2.5	0.0	0.0	0.0	64.6	2.3	1.5	0.0	0.0	3.6	0.0	0.0	13.2
117	593494.16	4796796.00	104.95	0	DEN	A	82.7	1.7	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	12.6
118	593495.08	4796796.80	104.95	0	DEN	A	82.7	-0.3	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	10.5
119	593495.54	4796797.20	104.95	0	DEN	A	82.7	-5.3	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	5.5
120	593495.96	4796797.56	104.95	0	DEN	A	82.7	-1.0	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	9.9
121	593496.69	4796798.19	104.95	0	DEN	A	82.7	0.5	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	0.0	11.3
122	593497.19	4796798.63	104.95	0	DEN	A	82.7	-6.6	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	4.2
123	593497.95	4796799.29	104.95	0	DEN	A	82.7	2.5	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	13.4
124	593499.24	4796800.41	104.95	0	DEN	A	82.7	2.1	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	12.9
125	593499.91	4796800.99	104.94	0	DEN	A	82.7	-7.9	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	0.0	3.0
126	593500.17	4796801.21	104.94	0	DEN	A	82.7	-2.8	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	8.0
127	593501.40	4796802.28	104.94	0	DEN	A	82.7	4.4	0.0	0.0	0.0	64.5	2.3	1.4	0.0	0.0	3.6	0.0	0.0	15.2
128	593502.55	4796803.27	104.94	0	DEN	A	82.7	-4.9	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	0.0	6.0
129	593504.39	4796804.87	104.94	0	DEN	A	82.7	6.6	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	0.0	17.5
130	593506.21	4796806.45	104.93	0	DEN	A	82.7	-5.9	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	5.0
131	593506.45	4796806.66	104.93	0	DEN	A	82.7	-4.1	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	6.8
132	593507.65	4796807.70	104.93	0	DEN	A	82.7	4.5	0.0	0.0	0.0	64.4	2.3	1.4	0.0	0.0	3.7	0.0	0.0	15.4
133	593509.14	4796808.99	104.93	0	DEN	A	82.7	0.6	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.7	0.0	0.0	11.5
134	593510.46	4796810.14	104.93	0	DEN	A	82.7	3.7	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.7	0.0	0.0	14.7
135	593511.75	4796811.26	104.93	0	DEN	A	82.7	0.2	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	11.2
136	593512.47	4796811.88	104.92	0	DEN	A	82.7	-0.7	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	10.2
137	593512.94	4796812.29	104.92	0	DEN	A	82.7	-4.1	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	6.8
138	593513.46	4796812.74	104.92	0	DEN	A	82.7	0.0	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	11.0
139	593514.13	4796813.33	104.92	0	DEN	A	82.7	-1.1	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	9.9
140	593514.78	4796813.89	104.92	0	DEN	A	82.7	-0.2	0.0	0.0	0.0	64.4	2.3	1.5	0.0	0.0	3.6	0.0	0.0	10.7
141	593516.49	4796815.37	104.92	0	DEN	A	82.7	5.5	0.0	0.0	0.0	64.4	2.3	1.4	0.0	0.0	3.7	0.0	0.0	16.5
142	593518.46	4796817.08	104.92	0	DEN	A	82.7	2.2	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	0.0	13.2
143	593521.69	4796819.88	104.91	0	DEN	A	82.7	8.4	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	0.0	19.4
144	593524.47	4796822.30	104.91	0	DEN	A	82.7	-3.1	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	0.0	8.0
145	593525.73	4796823.38	104.90	0	DEN	A	82.7	4.5	0.0	0.0	0.0	64.3	2.3	1.2	0.0	0.0	3.7	0.0	0.0	15.7
146	593527.22	4796824.68	104.90	0	DEN	A	82.7	0.6	0.0	0.0	0.0	64.3	2.3	1.2	0.0	0.0	3.7	0.0	0.0	11.8
147	593527.98	4796825.34	104.90	0	DEN	A	82.7	-0.5	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	0.0	10.6
148	593528.89	4796826.12	104.90	0	DEN	A	82.7	1.8	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	0.0	12.9
149	593530.84	4796827.82	104.90	0	DEN	A	82.7	5.6	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	0.0	16.8
150	593532.72	4796829.45	104.89	0	DEN	A	82.7	1.2	0.0	0.0	0.0	64.2	2.3	1.4	0.0	0.0	3.7	0.0	0.0	12.3
151	593533.70	4796830.30	104.89	0	DEN	A	82.7	1.0	0.0	0.0	0.0	64.2	2.3	1.3	0.0	0.0	3.7	0.0	0.0	12.3
152	593534.44	4796830.94	104.89	0	DEN	A	82.7	-1.5	0.0	0.0	0.0	64.2	2.3	1.4	0.0	0.0	3.7	0.0	0.0	9.7
153	593535.32	4796831.70	104.89	0	DEN	A	82.7	2.1	0.0	0.0	0.0	64.2	2.3	1.3	0.0	0.0	3.7	0.0	0.0	13.3
154	593537.67	4796833.74	104.88	0	DEN	A	82.7	6.6	0.0	0.0	0.0	64.2	2.3	1.3	0.0	0.0	3.7	0.0	0.0	17.9
155	593539.97	4796835.74	104.88	0	DEN	A	82.7	1.7	0.0	0.0	0.0	64.2	2.2	1.3	0.0	0.0	3.7	0.0	0.0	13.0
156	593540.80	4796836.46	104.88	0	DEN	A	82.7	-1.6	0.0	0.0	0.0	64.2	2.2	1.4	0.0	0.0	3.7	0.0	0.0	9.6
157	593541.49	4796837.06	104.88	0	DEN	A	82.7	0.6	0.0	0.0	0.0	64.2	2.2	1.3	0.0	0.0	3.7	0.0	0.0	11.9
158	593542.80	4796838.20	104.88	0	DEN	A	82.7	3.6	0.0	0.0	0.0	64.2	2.2	1.4	0.0	0.0	3.7	0.0	0.0	14.9
159	593543.98	4796839.22	104.87	0	DEN	A	82.7	-0.9	0.0	0.0	0.0	64.2	2.2	1.3	0.0	0.0	3.7	0.0	0.0	10.4
160	593544.34	4796839.53	104.87	0	DEN	A	82.7	-8.7	0.0	0.0	0.0	64.2	2.2	1.3	0.0	0.0	3.7	0.0	0.0	2.6
161	593547.35	4796842.14	104.87	0	DEN	A	82.7	8.9	0.0	0.0	0.0	64.2	2.2	1.3	0.0	0.0	3.7	0.0	0.0	20.2
162	593551.52	4796845.76	104.86	0	DEN	A	82.7	5.0	0.0	0.0	0.0	64.1	2.2	1.3	0.0	0.0	3.7	0.0	0.0	16.3
163	593553.19	4796847.21	104.86	0	DEN	A	82.7	1.0	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	12.3
164	593554.55	4796848.39	104.86	0	DEN	A	82.7	3.7	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	15.0
165	593555.54	4796849.25	104.86	0	DEN	A	82.7	-5.8	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	5.5
166	593556.38	4796849.98	104.85	0	DEN	A	82.7	2.9	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	14.2
167	593557.16	4796850.66	104.85	0	DEN	A	82.7	-9.1	0.0	0.0	0.0	64.1	2.2	1.1	0.0	0.0	3.8	0.0	0.0	2.4
168	593557.64	4796851.07	104.85	0	DEN	A	82.7	0.5	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	11.9
169	593558.40	4796851.73	104.85	0	DEN	A	82.7	-0.5	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	10.8
170	593559.92	4796853.04	104.85	0	DEN	A	82.7	5.0	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	16.3
171	593561.77	4796854.65	104.85	0	DEN	A	82.7	2.5	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	13.8
172	593564.26	4796856.81	104.84	0	DEN	A	82.7	6.8	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	18.2
173	593566.14	4796858.44	104.84	0	DEN	A	82.7	-7.6	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	3.8
174	593566.89	4796859.09	104.84	0	DEN	A	82.7	2.6	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	14.0
175	593568.24	4796860.26	104.84	0	DEN	A	82.7	2.4	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	13.8
176	593568.99	4796860.92	104.83	0	DEN	A	82.7	-6.3	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.7	0.0	0.0	5.0
177	593569.16	4796861.06	104.83	0	DEN	A	82.7	-6.6	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.6	0.0	0.0	4.9
178	593569.43	4796861.30	104.83	0	DEN	A	82.7	-3.1	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	3.6	0.0	0.0	8.4

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
179	593569.94	4796861.74	104.83	0	DEN	A	82.7	-0.7	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.6	0.0	0.0	10.8
180	593570.40	4796862.13	104.83	0	DEN	A	82.7	-4.5	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.6	0.0	0.0	6.8
181	593571.74	4796863.30	104.83	0	DEN	A	82.7	5.1	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.6	0.0	0.0	16.5
182	593572.98	4796864.38	104.83	0	DEN	A	82.7	-10.5	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.6	0.0	0.0	0.8
183	593577.70	4796868.47	104.82	0	DEN	A	82.7	10.9	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.3	0.0	0.0	22.7
184	593583.21	4796873.25	104.81	0	DEN	A	82.7	3.3	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.3	0.0	0.0	15.1
185	593584.63	4796874.48	104.81	0	DEN	A	82.7	2.1	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.1	0.0	0.0	14.1
186	593586.46	4796876.07	104.81	0	DEN	A	82.7	5.1	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	1.9	0.0	0.0	18.3
187	593589.40	4796878.62	104.80	0	DEN	A	82.7	6.6	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	21.6
188	593591.21	4796880.20	104.80	0	DEN	A	82.7	-6.0	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	9.0
189	593591.43	4796880.38	104.80	0	DEN	A	82.7	-5.0	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	10.1
190	593595.16	4796883.62	104.79	0	DEN	A	82.7	9.8	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	2.9	0.0	0.0	22.0
191	593600.39	4796888.15	104.78	0	DEN	A	82.7	6.3	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.4	0.0	0.0	18.0
192	593604.11	4796891.39	104.78	0	DEN	A	82.7	7.5	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	2.3	0.0	0.0	20.3
193	593606.64	4796893.58	104.77	0	DEN	A	82.7	0.3	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	0.0	0.0	0.0	15.4
194	593608.63	4796895.30	104.77	0	DEN	A	82.7	6.2	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	0.0	0.0	0.0	21.3
195	593610.26	4796896.72	104.77	0	DEN	A	82.7	-9.1	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	0.0	0.0	0.0	6.0
196	593610.76	4796897.15	104.77	0	DEN	A	82.7	0.8	0.0	0.0	0.0	63.9	2.2	1.6	0.0	0.0	1.5	0.0	0.0	14.3
197	593613.75	4796899.74	104.76	0	DEN	A	82.7	8.3	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	2.8	0.0	0.0	20.6
198	593616.52	4796902.15	104.76	0	DEN	A	82.7	-2.1	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.6	0.0	0.0	9.4
199	593617.29	4796902.82	104.76	0	DEN	A	82.7	1.6	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.6	0.0	0.0	13.1
200	593618.40	4796903.78	104.76	0	DEN	A	82.7	1.8	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.6	0.0	0.0	13.3
201	593619.06	4796904.35	104.75	0	DEN	A	82.7	-6.5	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	3.6	0.0	0.0	5.0
202	593619.29	4796904.56	104.75	0	DEN	A	82.7	-3.9	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	3.6	0.0	0.0	7.6
203	593620.48	4796905.58	104.75	0	DEN	A	82.7	4.4	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	3.7	0.0	0.0	15.9
204	593621.65	4796906.60	104.75	0	DEN	A	82.7	-4.2	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	3.0	0.0	0.0	8.0
205	593622.80	4796907.59	104.75	0	DEN	A	82.7	4.3	0.0	0.0	0.0	63.9	2.2	1.3	0.0	0.0	2.7	0.0	0.0	16.8
206	593624.85	4796909.37	104.75	0	DEN	A	82.7	4.4	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	1.8	0.0	0.0	17.8
207	593625.96	4796910.34	104.74	0	DEN	A	82.7	-7.1	0.0	0.0	0.0	63.9	2.2	1.3	0.0	0.0	0.0	0.0	0.0	8.2
208	593626.49	4796910.80	104.74	0	DEN	A	82.7	0.8	0.0	0.0	0.0	63.9	2.2	1.3	0.0	0.0	0.0	0.0	0.0	16.1
209	593629.18	4796913.14	104.74	0	DEN	A	82.7	7.7	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	0.0	0.0	0.0	22.9
210	593631.50	4796915.15	104.73	0	DEN	A	82.7	-6.4	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	0.0	0.0	0.0	8.8
211	593631.90	4796915.50	104.73	0	DEN	A	82.7	-0.8	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	0.0	0.0	0.0	14.4
212	593632.24	4796915.79	104.73	0	DEN	A	82.7	-12.6	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	1.5	0.0	0.0	1.1
213	593632.58	4796916.08	104.73	0	DEN	A	82.7	-0.8	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	1.5	0.0	0.0	12.9
214	593634.37	4796917.63	104.73	0	DEN	A	82.7	5.9	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	3.7	0.0	0.0	17.4
215	593636.01	4796919.06	104.73	0	DEN	A	82.7	-3.6	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	3.7	0.0	0.0	7.9
216	593636.96	4796919.88	104.73	0	DEN	A	82.7	3.2	0.0	0.0	0.0	63.9	2.2	1.4	0.0	0.0	3.7	0.0	0.0	14.7
217	593638.33	4796921.07	104.72	0	DEN	A	82.7	1.9	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.7	0.0	0.0	13.3
218	593639.42	4796922.02	104.72	0	DEN	A	82.7	1.3	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.7	0.0	0.0	12.8
219	593639.99	4796922.51	104.72	0	DEN	A	82.7	-8.0	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.7	0.0	0.0	3.4
220	593640.18	4796922.67	104.72	0	DEN	A	82.7	-4.8	0.0	0.0	0.0	63.9	2.2	1.2	0.0	0.0	3.7	0.0	0.0	6.9
221	593640.98	4796923.37	104.72	0	DEN	A	82.7	2.6	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.7	0.0	0.0	14.0
222	593643.01	4796925.13	104.72	0	DEN	A	82.7	5.5	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	3.7	0.0	0.0	17.0
223	593644.43	4796926.36	104.71	0	DEN	A	82.7	-6.6	0.0	0.0	0.0	63.9	2.2	1.5	0.0	0.0	0.0	0.0	0.0	8.6
224	593645.17	4796927.00	104.71	0	DEN	A	82.7	2.4	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	17.5
225	593646.04	4796927.75	104.71	0	DEN	A	82.7	-2.5	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	12.7
226	593646.40	4796928.07	104.71	0	DEN	A	82.7	-3.9	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	11.2
227	593647.16	4796928.73	104.71	0	DEN	A	82.7	2.0	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	17.1
228	593648.04	4796929.49	104.71	0	DEN	A	82.7	-1.3	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	13.8
229	593649.14	4796930.45	104.71	0	DEN	A	82.7	3.4	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	18.5
230	593650.12	4796931.30	104.70	0	DEN	A	82.7	-3.7	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	1.5	0.0	0.0	9.9
231	593650.75	4796931.84	104.70	0	DEN	A	82.7	0.9	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	1.7	0.0	0.0	14.4
232	593652.62	4796933.46	104.70	0	DEN	A	82.7	5.7	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.7	0.0	0.0	17.2
233	593655.58	4796936.03	104.70	0	DEN	A	82.7	6.2	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.7	0.0	0.0	17.7
234	593657.15	4796937.40	104.69	0	DEN	A	82.7	-14.1	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.7	0.0	0.0	-2.7
235	593657.20	4796937.44	104.69	0	DEN	A	82.7	-10.7	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.7	0.0	0.0	0.7
236	593658.36	4796938.45	104.69	0	DEN	A	82.7	4.8	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.7	0.0	0.0	16.3
237	593660.41	4796940.23	104.69	0	DEN	A	82.7	3.9	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	2.1	0.0	0.0	17.0
238	593661.66	4796941.31	104.69	0	DEN	A	82.7	-0.6	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	1.5	0.0	0.0	13.0
239	593662.22	4796941.80	104.69	0	DEN	A	82.7	-2.1	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	0.0	0.0	0.0	13.1
240	593662.98	4796942.46	104.68	0	DEN	A	82.7	1.5	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	0.0	0.0	0.0	16.7
241	593665.31	4796944.48	104.68	0	DEN	A	82.7	6.8	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	0.0	0.0	0.0	22.0

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
242	593667.25	4796946.16	104.68	0	DEN	A	82.7	-4.7	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	1.5	0.0	0.0	9.0
243	593667.41	4796946.30	104.68	0	DEN	A	82.7	-10.0	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	1.5	0.0	0.0	3.6
244	593668.06	4796946.87	104.68	0	DEN	A	82.7	2.1	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	3.7	0.0	0.0	13.6
245	593668.84	4796947.53	104.68	0	DEN	A	82.7	-3.8	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.6	0.0	0.0	7.6
246	593669.54	4796948.15	104.67	0	DEN	A	82.7	1.6	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	3.7	0.0	0.0	13.1
247	593670.31	4796948.81	104.67	0	DEN	A	82.7	-2.4	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	3.7	0.0	0.0	9.1
248	593671.29	4796949.66	104.67	0	DEN	A	82.7	3.0	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.6	0.0	0.0	14.4
249	593672.51	4796950.72	104.67	0	DEN	A	82.7	0.9	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	3.6	0.0	0.0	12.4
250	593673.33	4796951.43	104.67	0	DEN	A	82.7	-0.3	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.6	0.0	0.0	11.1
251	593673.88	4796951.91	104.67	0	DEN	A	82.7	-2.8	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.6	0.0	0.0	8.6
252	593674.81	4796952.72	104.67	0	DEN	A	82.7	2.9	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	3.6	0.0	0.0	14.4
253	593676.18	4796953.90	104.66	0	DEN	A	82.7	2.3	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.6	0.0	0.0	13.6
254	593677.16	4796954.75	104.66	0	DEN	A	82.7	-0.4	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	3.7	0.0	0.0	11.1
255	593678.09	4796955.57	104.66	0	DEN	A	82.7	2.0	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	3.7	0.0	0.0	13.4
256	593678.83	4796956.21	104.66	0	DEN	A	82.7	-4.2	0.0	0.0	0.0	64.0	2.2	1.5	0.0	0.0	1.5	0.0	0.0	9.3
257	593679.04	4796956.38	104.66	0	DEN	A	82.7	-8.0	0.0	0.0	0.0	64.0	2.2	1.4	0.0	0.0	1.5	0.0	0.0	5.6
258	593679.29	4796956.60	104.66	0	DEN	A	82.7	-3.0	0.0	0.0	0.0	64.0	2.2	1.3	0.0	0.0	0.0	0.0	0.0	12.2
259	593679.74	4796957.00	104.66	0	DEN	A	82.7	-1.5	0.0	0.0	0.0	64.1	2.2	1.3	0.0	0.0	0.0	0.0	0.0	13.7
260	593680.55	4796957.70	104.66	0	DEN	A	82.7	1.5	0.0	0.0	0.0	64.1	2.2	1.5	0.0	0.0	0.0	0.0	0.0	16.6
261	593683.31	4796960.09	104.65	0	DEN	A	82.7	7.7	0.0	0.0	0.0	64.1	2.2	1.4	0.0	0.0	0.0	0.0	0.0	22.7
262	593686.52	4796962.87	104.65	0	DEN	A	82.7	4.2	0.0	0.0	0.0	64.1	2.2	1.2	0.0	0.0	0.0	0.0	0.0	19.4
263	593688.58	4796964.66	104.64	0	DEN	A	82.7	4.5	0.0	0.0	0.0	64.1	2.2	1.5	0.0	0.0	0.0	0.0	0.0	19.5
264	593690.08	4796965.97	104.64	0	DEN	A	82.7	0.6	0.0	0.0	0.0	64.1	2.2	1.5	0.0	0.0	0.0	0.0	0.0	15.5
265	593691.20	4796966.94	104.64	0	DEN	A	82.7	2.6	0.0	0.0	0.0	64.1	2.2	1.5	0.0	0.0	0.0	0.0	0.0	17.6
266	593692.57	4796968.12	104.64	0	DEN	A	82.7	2.5	0.0	0.0	0.0	64.1	2.2	1.5	0.0	0.0	1.4	0.0	0.0	16.1
267	593341.59	4796663.64	105.20	1	DEN	A	82.7	7.5	0.0	0.0	0.0	66.8	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-3.8
268	593343.99	4796665.72	105.19	1	DEN	A	82.7	-1.3	0.0	0.0	0.0	66.7	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-12.6
269	593344.36	4796666.04	105.19	1	DEN	A	82.7	-6.2	0.0	0.0	0.0	66.7	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-17.4
270	593346.80	4796668.16	105.19	1	DEN	A	82.7	7.9	0.0	0.0	0.0	66.7	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-3.3
271	593350.10	4796671.02	105.18	1	DEN	A	82.7	4.0	0.0	0.0	0.0	66.7	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-7.2
272	593352.33	4796672.96	105.18	1	DEN	A	82.7	5.3	0.0	0.0	0.0	66.7	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-5.9
273	593353.81	4796674.24	105.18	1	DEN	A	82.7	-2.8	0.0	0.0	0.0	66.6	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-14.0
274	593354.06	4796674.46	105.18	1	DEN	A	82.7	-8.3	0.0	0.0	0.0	66.6	2.8	1.4	0.0	0.0	19.9	0.0	3.2	-19.5
275	593355.07	4796675.34	105.18	1	DEN	A	82.7	4.0	0.0	0.0	0.0	66.6	2.8	1.2	0.0	0.0	20.1	0.0	3.2	-7.1
276	593357.12	4796677.11	105.17	1	DEN	A	82.7	4.6	0.0	0.0	0.0	66.6	2.8	1.2	0.0	0.0	20.1	0.0	3.2	-6.5
277	593360.67	4796680.19	105.17	1	DEN	A	82.7	8.1	0.0	0.0	0.0	66.6	2.7	1.4	0.0	0.0	19.9	0.0	3.2	-3.0
278	593363.20	4796682.39	105.16	1	DEN	A	82.7	-6.6	0.0	0.0	0.0	66.5	2.7	1.3	0.0	0.0	20.1	0.0	3.2	-17.7
279	593364.41	4796683.44	105.16	1	DEN	A	82.7	4.7	0.0	0.0	0.0	66.5	2.7	1.4	0.0	0.0	19.9	0.0	3.2	-6.3
280	593366.40	4796685.17	105.16	1	DEN	A	82.7	3.6	0.0	0.0	0.0	66.5	2.7	1.4	0.0	0.0	19.9	0.0	3.2	-7.4
281	593368.82	4796687.26	105.15	1	DEN	A	82.7	6.1	0.0	0.0	0.0	66.5	2.7	1.4	0.0	0.0	20.0	0.0	3.2	-4.8
282	593370.95	4796689.11	105.15	1	DEN	A	82.7	1.8	0.0	0.0	0.0	66.4	2.7	1.4	0.0	0.0	19.9	0.0	3.2	-9.1
283	593372.87	4796690.78	105.15	1	DEN	A	82.7	5.5	0.0	0.0	0.0	66.4	2.7	1.4	0.0	0.0	20.0	0.0	3.2	-5.4
284	593374.89	4796692.53	105.14	1	DEN	A	82.7	2.5	0.0	0.0	0.0	66.4	2.7	1.4	0.0	0.0	20.0	0.0	3.2	-8.4
285	593375.60	4796693.14	105.14	1	DEN	A	82.7	-10.9	0.0	0.0	0.0	66.4	2.7	1.3	0.0	0.0	20.1	0.0	3.2	-21.8
286	593376.27	4796693.73	105.14	1	DEN	A	82.7	2.3	0.0	0.0	0.0	66.4	2.7	1.4	0.0	0.0	20.0	0.0	3.2	-8.6
287	593379.73	4796696.72	105.14	1	DEN	A	82.7	8.7	0.0	0.0	0.0	66.3	2.7	1.3	0.0	0.0	20.1	0.0	3.2	-2.1
288	593383.38	4796699.90	105.13	1	DEN	A	82.7	3.5	0.0	0.0	0.0	66.3	2.7	1.3	0.0	0.0	20.1	0.0	3.2	-7.3
289	593384.79	4796701.12	105.13	1	DEN	A	82.7	1.7	0.0	0.0	0.0	66.3	2.7	1.4	0.0	0.0	20.0	0.0	2.5	-8.4
290	593385.58	4796701.80	105.13	1	DEN	A	82.7	-2.2	0.0	0.0	0.0	66.3	2.7	1.3	0.0	0.0	20.1	0.0	2.5	-12.3
291	593386.35	4796702.47	105.13	1	DEN	A	82.7	1.7	0.0	0.0	0.0	66.3	2.7	1.4	0.0	0.0	20.0	0.0	2.5	-8.4
292	593388.02	4796703.92	105.12	1	DEN	A	82.7	4.7	0.0	0.0	0.0	66.3	2.7	1.3	0.0	0.0	20.1	0.0	2.5	-5.3
293	593389.38	4796705.10	105.12	1	DEN	A	82.7	-2.1	0.0	0.0	0.0	66.2	2.7	1.3	0.0	0.0	20.1	0.0	2.5	-12.1
294	593389.95	4796705.60	105.12	1	DEN	A	82.7	-0.5	0.0	0.0	0.0	66.2	2.7	1.3	0.0	0.0	20.1	0.0	2.5	-10.5
295	593391.65	4796707.06	105.12	1	DEN	A	82.7	5.5	0.0	0.0	0.0	66.2	2.7	1.3	0.0	0.0	20.1	0.0	2.5	-4.5
296	593393.12	4796708.35	105.12	1	DEN	A	82.7	-4.9	0.0	0.0	0.0	66.2	2.7	1.3	0.0	0.0	20.1	0.0	2.5	-14.9
297	593393.34	4796708.54	105.12	1	DEN	A	82.7	-5.7	0.0	0.0	0.0	66.2	2.7	1.3	0.0	0.0	20.0	0.0	2.5	-15.7
298	593394.90	4796709.89	105.11	1	DEN	A	82.7	5.9	0.0	0.0	0.0	66.2	2.7	1.4	0.0	0.0	20.0	0.0	2.5	-4.1
299	593396.41	4796711.20	105.11	1	DEN	A	82.7	-8.2	0.0	0.0	0.0	66.2	2.7	1.4	0.0	0.0	20.0	0.0	2.5	-18.1
300	593396.93	4796711.65	105.11	1	DEN	A	82.7	0.9	0.0	0.0	0.0	66.2	2.7	1.4	0.0	0.0	20.0	0.0	2.5	-9.1
301	593397.76	4796712.37	105.11	1	DEN	A	82.7	-0.1	0.0	0.0	0.0	66.1	2.7	1.3	0.0	0.0	20.1	0.0	2.5	-10.1
302	593398.34	4796712.88	105.11	1	DEN	A	82.7	-2.4	0.0	0.0	0.0	66.1	2.7	1.4	0.0	0.0	20.0	0.0	2.5	-12.4
303	593400.16	4796714.46	105.10	1	DEN	A	82.7	6.3	0.0	0.0	0.0	66.1	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-3.6
304	593403.21	4796717.10	105.10	1	DEN	A	82.7	5.8	0.0	0.0	0.0	66.1	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-4.1

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
305	593404.78	4796718.46	105.10	1	DEN	A	82.7	-4.5	0.0	0.0	0.0	66.1	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-14.4
306	593405.59	4796719.17	105.10	1	DEN	A	82.7	2.6	0.0	0.0	0.0	66.1	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-7.3
307	593407.05	4796720.43	105.09	1	DEN	A	82.7	3.1	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-6.7
308	593408.01	4796721.26	105.09	1	DEN	A	82.7	-3.3	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-13.2
309	593408.44	4796721.63	105.09	1	DEN	A	82.7	-1.6	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-11.5
310	593409.17	4796722.27	105.09	1	DEN	A	82.7	0.9	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-8.9
311	593409.92	4796722.91	105.09	1	DEN	A	82.7	-1.3	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-11.1
312	593410.88	4796723.75	105.09	1	DEN	A	82.7	2.6	0.0	0.0	0.0	66.0	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-7.2
313	593412.55	4796725.20	105.08	1	DEN	A	82.7	4.2	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-5.6
314	593414.08	4796726.52	105.08	1	DEN	A	82.7	1.5	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-8.2
315	593416.52	4796728.64	105.08	1	DEN	A	82.7	7.0	0.0	0.0	0.0	66.0	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-2.7
316	593419.84	4796731.53	105.07	1	DEN	A	82.7	5.8	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-3.9
317	593421.29	4796732.78	105.07	1	DEN	A	82.7	-11.9	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-21.6
318	593421.32	4796732.81	105.07	1	DEN	A	82.7	-15.0	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-24.7
319	593421.67	4796733.11	105.07	1	DEN	A	82.7	-0.5	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-10.2
320	593422.19	4796733.57	105.07	1	DEN	A	82.7	-3.1	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-12.8
321	593422.75	4796734.05	105.07	1	DEN	A	82.7	-0.0	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.0	0.0	2.5	-9.7
322	593423.16	4796734.41	105.07	1	DEN	A	82.7	-10.5	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.1	0.0	2.5	-20.2
323	593423.24	4796734.48	105.07	1	DEN	A	82.7	-9.1	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.1	0.0	2.5	-18.8
324	593423.85	4796735.01	105.07	1	DEN	A	82.7	1.7	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.1	0.0	2.5	-8.0
325	593424.48	4796735.55	105.07	1	DEN	A	82.7	-7.4	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.1	0.0	2.5	-17.1
326	593426.10	4796736.95	105.06	1	DEN	A	82.7	6.1	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.1	0.0	2.5	-3.5
327	593429.11	4796739.57	105.06	1	DEN	A	82.7	5.9	0.0	0.0	0.0	65.8	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-3.7
328	593431.43	4796741.58	105.05	1	DEN	A	82.7	3.5	0.0	0.0	0.0	65.8	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-6.1
329	593432.47	4796742.48	105.05	1	DEN	A	82.7	-3.0	0.0	0.0	0.0	65.8	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-12.6
330	593433.18	4796743.09	105.05	1	DEN	A	82.7	1.3	0.0	0.0	0.0	65.8	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-8.3
331	593434.56	4796744.30	105.05	1	DEN	A	82.7	3.6	0.0	0.0	0.0	65.8	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-5.9
332	593435.48	4796745.09	105.05	1	DEN	A	82.7	-9.0	0.0	0.0	0.0	65.8	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-18.6
333	593435.68	4796745.27	105.05	1	DEN	A	82.7	-3.9	0.0	0.0	0.0	65.8	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-13.5
334	593437.59	4796746.92	105.04	1	DEN	A	82.7	6.7	0.0	0.0	0.0	65.7	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-2.9
335	593440.02	4796749.03	105.04	1	DEN	A	82.7	2.6	0.0	0.0	0.0	65.7	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-6.9
336	593440.86	4796749.76	105.04	1	DEN	A	82.7	-4.2	0.0	0.0	0.0	65.7	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-13.7
337	593441.68	4796750.47	105.04	1	DEN	A	82.7	2.6	0.0	0.0	0.0	65.7	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-6.9
338	593442.38	4796751.08	105.04	1	DEN	A	82.7	-13.6	0.0	0.0	0.0	65.7	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-23.1
339	593442.41	4796751.10	105.04	1	DEN	A	82.7	-15.4	0.0	0.0	0.0	65.7	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-24.8
340	593443.82	4796752.32	105.03	1	DEN	A	82.7	5.7	0.0	0.0	0.0	65.7	2.6	1.5	0.0	0.0	20.0	0.0	2.5	-3.8
341	593446.41	4796754.58	105.03	1	DEN	A	82.7	5.0	0.0	0.0	0.0	65.7	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-4.5
342	593448.36	4796756.26	105.03	1	DEN	A	82.7	3.0	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-6.5
343	593449.15	4796756.95	105.03	1	DEN	A	82.7	-10.2	0.0	0.0	0.0	65.6	2.5	1.3	0.0	0.0	20.2	0.0	2.5	-19.7
344	593449.32	4796757.10	105.03	1	DEN	A	82.7	-4.3	0.0	0.0	0.0	65.6	2.5	1.3	0.0	0.0	20.2	0.0	2.5	-13.7
345	593449.50	4796757.25	105.03	1	DEN	A	82.7	-10.3	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-19.7
346	593450.13	4796757.80	105.02	1	DEN	A	82.7	2.0	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-7.5
347	593450.86	4796758.44	105.02	1	DEN	A	82.7	-4.2	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-13.6
348	593452.70	4796760.03	105.02	1	DEN	A	82.7	6.5	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-2.9
349	593454.65	4796761.72	105.02	1	DEN	A	82.7	-1.7	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	19.9	0.0	2.5	-11.0
350	593455.13	4796762.14	105.02	1	DEN	A	82.7	-2.2	0.0	0.0	0.0	65.6	2.5	1.3	0.0	0.0	20.1	0.0	2.5	-11.4
351	593455.99	4796762.89	105.01	1	DEN	A	82.7	2.2	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	19.9	0.0	2.5	-7.0
352	593456.66	4796763.46	105.01	1	DEN	A	82.7	-10.0	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	19.9	0.0	2.5	-19.2
353	593457.78	4796764.44	105.01	1	DEN	A	82.7	4.6	0.0	0.0	0.0	65.6	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-4.6
354	593459.32	4796765.78	105.01	1	DEN	A	82.7	0.7	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	20.1	0.0	2.5	-8.5
355	593460.26	4796766.59	105.01	1	DEN	A	82.7	1.1	0.0	0.0	0.0	65.5	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-8.1
356	593460.97	4796767.21	105.01	1	DEN	A	82.7	-2.1	0.0	0.0	0.0	65.5	2.5	1.5	0.0	0.0	20.1	0.0	2.5	-11.4
357	593461.41	4796767.58	105.01	1	DEN	A	82.7	-2.7	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	20.2	0.0	2.5	-12.0
358	593461.72	4796767.86	105.01	1	DEN	A	82.7	-5.3	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	20.2	0.0	2.5	-14.5
359	593463.27	4796769.20	105.00	1	DEN	A	82.7	5.8	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	20.2	0.0	2.5	-3.5
360	593464.80	4796770.53	105.00	1	DEN	A	82.7	-6.4	0.0	0.0	0.0	65.5	2.5	1.5	0.0	0.0	20.1	0.0	2.5	-15.7
361	593465.41	4796771.06	105.00	1	DEN	A	82.7	1.4	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	20.2	0.0	2.5	-7.9
362	593466.11	4796771.66	105.00	1	DEN	A	82.7	-3.2	0.0	0.0	0.0	65.5	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-12.3
363	593467.29	4796772.69	105.00	1	DEN	A	82.7	4.2	0.0	0.0	0.0	65.5	2.5	1.3	0.0	0.0	20.1	0.0	2.5	-4.9
364	593468.77	4796773.97	104.99	1	DEN	A	82.7	1.0	0.0	0.0	0.0	65.5	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-8.1
365	593470.22	4796775.23	104.99	1	DEN	A	82.7	4.1	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-5.0
366	593471.37	4796776.23	104.99	1	DEN	A	82.7	-3.3	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-12.4
367	593471.64	4796776.46	104.99	1	DEN	A	82.7	-6.2	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-15.3

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
368	593473.00	4796777.64	104.99	1	DEN	A	82.7	5.3	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-3.8
369	593475.22	4796779.57	104.98	1	DEN	A	82.7	4.1	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-5.0
370	593476.44	4796780.63	104.98	1	DEN	A	82.7	-1.7	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-10.7
371	593476.77	4796780.91	104.98	1	DEN	A	82.7	-7.5	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-16.6
372	593477.39	4796781.45	104.98	1	DEN	A	82.7	1.7	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-7.4
373	593478.33	4796782.27	104.98	1	DEN	A	82.7	0.1	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-9.0
374	593478.77	4796782.65	104.98	1	DEN	A	82.7	-8.6	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-17.7
375	593478.86	4796782.72	104.98	1	DEN	A	82.7	-10.5	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.1	0.0	2.5	-19.6
376	593479.30	4796783.11	104.98	1	DEN	A	82.7	0.4	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	20.2	0.0	2.5	-8.7
377	593480.86	4796784.46	104.98	1	DEN	A	82.7	4.8	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	20.1	0.0	2.5	-4.3
378	593482.47	4796785.85	104.97	1	DEN	A	82.7	0.8	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.1	0.0	2.5	-8.3
379	593483.63	4796786.86	104.97	1	DEN	A	82.7	2.7	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-6.2
380	593484.99	4796788.05	104.97	1	DEN	A	82.7	2.4	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-6.6
381	593485.89	4796788.82	104.97	1	DEN	A	82.7	-2.0	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-10.9
382	593486.69	4796789.52	104.97	1	DEN	A	82.7	1.7	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.0	0.0	2.5	-7.3
383	593487.46	4796790.19	104.96	1	DEN	A	82.7	-2.5	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-11.4
384	593489.09	4796791.60	104.96	1	DEN	A	82.7	5.7	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-3.2
385	593490.64	4796792.95	104.96	1	DEN	A	82.7	-4.2	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	20.0	0.0	2.5	-13.1
386	593492.46	4796794.52	104.96	1	DEN	A	82.7	6.4	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-2.5
387	593495.07	4796796.79	104.95	1	DEN	A	82.7	4.0	0.0	0.0	0.0	65.2	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-4.9
388	593496.49	4796798.02	104.95	1	DEN	A	82.7	0.9	0.0	0.0	0.0	65.2	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-8.0
389	593497.07	4796798.52	104.95	1	DEN	A	82.7	-5.1	0.0	0.0	0.0	65.2	2.5	1.4	0.0	0.0	20.2	0.0	2.5	-14.1
390	593497.59	4796798.97	104.95	1	DEN	A	82.7	0.2	0.0	0.0	0.0	65.2	2.5	1.4	0.0	0.0	20.1	0.0	2.5	-8.7
391	593498.20	4796799.51	104.95	1	DEN	A	82.7	-2.4	0.0	0.0	0.0	65.2	2.5	1.4	0.0	0.0	20.2	0.0	2.5	-11.4
392	593498.47	4796799.74	104.95	1	DEN	A	82.7	-8.9	0.0	0.0	0.0	65.2	2.5	1.4	0.0	0.0	20.2	0.0	2.5	-17.8
393	593499.36	4796800.51	104.95	1	DEN	A	82.7	3.5	0.0	0.0	0.0	65.2	2.5	1.4	0.0	0.0	20.2	0.0	2.5	-5.5
394	593500.72	4796801.69	104.94	1	DEN	A	82.7	1.4	0.0	0.0	0.0	65.2	2.4	1.4	0.0	0.0	20.0	0.0	2.5	-7.5
395	593501.65	4796802.49	104.94	1	DEN	A	82.7	0.3	0.0	0.0	0.0	65.2	2.4	1.4	0.0	0.0	20.0	0.0	2.5	-8.5
396	593502.26	4796803.02	104.94	1	DEN	A	82.7	-2.8	0.0	0.0	0.0	65.2	2.4	1.4	0.0	0.0	20.0	0.0	2.5	-11.6
397	593503.17	4796803.82	104.94	1	DEN	A	82.7	2.8	0.0	0.0	0.0	65.2	2.4	1.4	0.0	0.0	20.0	0.0	2.5	-6.0
398	593504.22	4796804.72	104.94	1	DEN	A	82.7	-0.6	0.0	0.0	0.0	65.2	2.4	1.4	0.0	0.0	20.0	0.0	2.5	-9.4
399	593504.75	4796805.18	104.94	1	DEN	A	82.7	-2.7	0.0	0.0	0.0	65.2	2.4	1.5	0.0	0.0	20.0	0.0	2.5	-11.5
400	593505.91	4796806.19	104.94	1	DEN	A	82.7	4.0	0.0	0.0	0.0	65.2	2.4	1.4	0.0	0.0	20.0	0.0	2.5	-4.8
401	593507.05	4796807.18	104.93	1	DEN	A	82.7	-3.0	0.0	0.0	0.0	65.2	2.4	1.2	0.0	0.0	20.3	0.0	2.5	-11.8
402	593508.07	4796808.07	104.93	1	DEN	A	82.7	3.4	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	20.0	0.0	2.5	-5.4
403	593509.23	4796809.08	104.93	1	DEN	A	82.7	-0.6	0.0	0.0	0.0	65.1	2.4	1.2	0.0	0.0	20.3	0.0	2.5	-9.3
404	593509.60	4796809.39	104.93	1	DEN	A	82.7	-10.8	0.0	0.0	0.0	65.1	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-19.5
405	593509.75	4796809.53	104.93	1	DEN	A	82.7	-4.9	0.0	0.0	0.0	65.1	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-13.7
406	593511.41	4796810.97	104.93	1	DEN	A	82.7	6.1	0.0	0.0	0.0	65.1	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-2.7
407	593513.85	4796813.08	104.92	1	DEN	A	82.7	3.7	0.0	0.0	0.0	65.1	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-5.0
408	593515.11	4796814.17	104.92	1	DEN	A	82.7	-0.2	0.0	0.0	0.0	65.1	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-8.9
409	593515.70	4796814.69	104.92	1	DEN	A	82.7	-2.1	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	20.1	0.0	2.5	-10.9
410	593516.22	4796815.14	104.92	1	DEN	A	82.7	-1.2	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	20.1	0.0	2.5	-10.1
411	593517.13	4796815.92	104.92	1	DEN	A	82.7	2.2	0.0	0.0	0.0	65.1	2.4	1.3	0.0	0.0	20.3	0.0	2.5	-6.7
412	593517.81	4796816.51	104.92	1	DEN	A	82.7	-8.0	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	20.0	0.0	2.5	-16.7
413	593518.39	4796817.02	104.92	1	DEN	A	82.7	1.4	0.0	0.0	0.0	65.1	2.4	1.5	0.0	0.0	20.0	0.0	2.5	-7.3
414	593520.72	4796819.04	104.91	1	DEN	A	82.7	6.8	0.0	0.0	0.0	65.1	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-1.9
415	593523.48	4796821.44	104.91	1	DEN	A	82.7	4.1	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-4.6
416	593524.56	4796822.37	104.91	1	DEN	A	82.7	-5.4	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-14.1
417	593525.84	4796823.48	104.90	1	DEN	A	82.7	4.9	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-3.8
418	593527.09	4796824.57	104.90	1	DEN	A	82.7	-7.1	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-15.7
419	593527.82	4796825.20	104.90	1	DEN	A	82.7	2.4	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-6.3
420	593528.68	4796825.95	104.90	1	DEN	A	82.7	-2.5	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-11.2
421	593529.19	4796826.39	104.90	1	DEN	A	82.7	-1.0	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-9.7
422	593529.74	4796826.86	104.90	1	DEN	A	82.7	-1.8	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-10.5
423	593529.99	4796827.09	104.90	1	DEN	A	82.7	-17.5	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.2	0.0	2.5	-26.2
424	593530.86	4796827.84	104.90	1	DEN	A	82.7	3.6	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-5.1
425	593532.36	4796829.14	104.89	1	DEN	A	82.7	2.3	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-6.3
426	593533.13	4796829.81	104.89	1	DEN	A	82.7	-4.7	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.3	0.0	2.5	-13.4
427	593534.03	4796830.58	104.89	1	DEN	A	82.7	3.1	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.3	0.0	2.5	-5.6
428	593534.99	4796831.42	104.89	1	DEN	A	82.7	-2.8	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-11.5
429	593535.32	4796831.70	104.89	1	DEN	A	82.7	-4.6	0.0	0.0	0.0	65.0	2.4	1.3	0.0	0.0	20.1	0.0	2.5	-13.2
430	593536.88	4796833.06	104.89	1	DEN	A	82.7	5.8	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.3	0.0	2.5	-3.0

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
431	593538.43	4796834.40	104.88	1	DEN	A	82.7	-5.0	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.3	0.0	2.5	-13.8
432	593539.12	4796835.00	104.88	1	DEN	A	82.7	1.8	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.3	0.0	2.5	-6.9
433	593539.82	4796835.61	104.88	1	DEN	A	82.7	-4.7	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.3	0.0	2.5	-13.5
434	593540.32	4796836.04	104.88	1	DEN	A	82.7	-0.0	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-8.6
435	593540.89	4796836.53	104.88	1	DEN	A	82.7	-3.0	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-11.6
436	593541.81	4796837.33	104.88	1	DEN	A	82.7	2.9	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-5.7
437	593542.57	4796837.99	104.88	1	DEN	A	82.7	-10.6	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-19.2
438	593542.65	4796838.07	104.88	1	DEN	A	82.7	-8.5	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-17.1
439	593542.77	4796838.17	104.88	1	DEN	A	82.7	-7.6	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-16.2
440	593543.04	4796838.40	104.88	1	DEN	A	82.7	-2.8	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-11.4
441	593545.16	4796840.24	104.87	1	DEN	A	82.7	7.1	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-1.5
442	593547.63	4796842.38	104.87	1	DEN	A	82.7	1.6	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-6.9
443	593548.51	4796843.15	104.87	1	DEN	A	82.7	-0.5	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-9.0
444	593549.85	4796844.31	104.87	1	DEN	A	82.7	4.2	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-4.3
445	593552.58	4796846.68	104.86	1	DEN	A	82.7	6.6	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.3	0.0	2.5	-2.0
446	593554.36	4796848.22	104.86	1	DEN	A	82.7	-10.2	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-18.7
447	593554.47	4796848.32	104.86	1	DEN	A	82.7	-7.1	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-15.5
448	593554.68	4796848.50	104.86	1	DEN	A	82.7	-4.4	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-12.9
449	593555.70	4796849.39	104.86	1	DEN	A	82.7	3.7	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-4.8
450	593556.61	4796850.17	104.85	1	DEN	A	82.7	-13.0	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-21.5
451	593557.25	4796850.73	104.85	1	DEN	A	82.7	2.2	0.0	0.0	0.0	64.9	2.4	1.2	0.0	0.0	20.4	0.0	2.5	-6.3
452	593557.99	4796851.37	104.85	1	DEN	A	82.7	-5.0	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-13.5
453	593558.35	4796851.69	104.85	1	DEN	A	82.7	-1.9	0.0	0.0	0.0	64.9	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-10.4
454	593559.28	4796852.49	104.85	1	DEN	A	82.7	2.6	0.0	0.0	0.0	64.9	2.4	1.1	0.0	0.0	20.4	0.0	2.5	-5.9
455	593561.59	4796854.50	104.85	1	DEN	A	82.7	6.4	0.0	0.0	0.0	64.8	2.4	1.2	0.0	0.0	20.4	0.0	2.5	-2.1
456	593563.36	4796856.03	104.84	1	DEN	A	82.7	-4.5	0.0	0.0	0.0	64.8	2.4	1.2	0.0	0.0	20.4	0.0	2.5	-13.0
457	593563.60	4796856.24	104.84	1	DEN	A	82.7	-5.4	0.0	0.0	0.0	64.8	2.4	1.2	0.0	0.0	20.4	0.0	2.5	-13.9
458	593564.42	4796856.95	104.84	1	DEN	A	82.7	2.7	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-5.7
459	593566.09	4796858.40	104.84	1	DEN	A	82.7	4.0	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-4.5
460	593567.75	4796859.84	104.84	1	DEN	A	82.7	2.7	0.0	0.0	0.0	64.8	2.4	1.3	0.0	0.0	20.3	0.0	2.5	-5.7
461	593568.82	4796860.76	104.83	1	DEN	A	82.7	-0.2	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-8.7
462	593569.38	4796861.25	104.83	1	DEN	A	82.7	-2.7	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	19.4	0.0	2.6	-10.6
463	593569.69	4796861.53	104.83	1	DEN	A	82.7	-5.2	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	19.4	0.0	2.6	-13.0
464	593570.00	4796861.79	104.83	1	DEN	A	82.7	-3.0	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	19.4	0.0	2.6	-10.9
465	593570.48	4796862.21	104.83	1	DEN	A	82.7	-1.0	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	19.3	0.0	2.6	-8.9
466	593570.99	4796862.65	104.83	1	DEN	A	82.7	-2.5	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	19.3	0.0	2.6	-10.3
467	593571.34	4796862.95	104.83	1	DEN	A	82.7	-4.5	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	19.4	0.0	2.6	-12.4
468	593571.51	4796863.10	104.83	1	DEN	A	82.7	-10.1	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	19.4	0.0	2.6	-17.9
469	593572.40	4796863.88	104.83	1	DEN	A	82.7	3.6	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	19.3	0.0	2.6	-4.3
470	593573.49	4796864.82	104.83	1	DEN	A	82.7	-2.1	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-10.5
471	593574.51	4796865.71	104.83	1	DEN	A	82.7	3.2	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	20.1	0.0	2.5	-5.2
472	593575.34	4796866.42	104.82	1	DEN	A	82.7	-10.9	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	20.2	0.0	2.5	-19.3
473	593576.45	4796867.39	104.82	1	DEN	A	82.7	4.6	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	20.1	0.0	2.5	-3.8
474	593577.64	4796868.42	104.82	1	DEN	A	82.7	-5.6	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	20.1	0.0	2.5	-14.0
475	593578.60	4796869.25	104.82	1	DEN	A	82.7	3.5	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	20.1	0.0	2.5	-4.9
476	593461.81	4796767.93	105.01	2	DEN	A	82.7	-0.1	0.0	0.0	0.0	65.9	2.6	1.4	0.0	0.0	20.1	0.0	32.6	-39.9
477	593462.36	4796768.41	105.00	2	DEN	A	82.7	-3.2	0.0	0.0	0.0	65.9	2.6	1.3	0.0	0.0	20.2	0.0	32.6	-43.1
478	593462.87	4796768.85	105.00	2	DEN	A	82.7	-0.6	0.0	0.0	0.0	65.9	2.6	1.3	0.0	0.0	20.2	0.0	32.6	-40.5
479	593463.21	4796769.14	105.00	2	DEN	A	82.7	-15.1	0.0	0.0	0.0	65.9	2.6	1.5	0.0	0.0	20.0	0.0	32.6	-55.0
480	593463.24	4796769.18	105.00	2	DEN	A	82.7	-12.0	0.0	0.0	0.0	65.9	2.6	1.5	0.0	0.0	20.0	0.0	32.6	-51.9
481	593464.65	4796770.40	105.00	2	DEN	A	82.7	5.6	0.0	0.0	0.0	65.9	2.6	1.3	0.0	0.0	20.2	0.0	32.7	-34.3
482	593467.89	4796773.21	105.00	2	DEN	A	82.7	6.9	0.0	0.0	0.0	65.9	2.6	1.5	0.0	0.0	20.0	0.0	32.7	-33.1
483	593470.27	4796775.28	104.99	2	DEN	A	82.7	1.4	0.0	0.0	0.0	65.9	2.6	1.5	0.0	0.0	20.0	0.0	32.8	-38.7
484	593471.76	4796776.57	104.99	2	DEN	A	82.7	4.1	0.0	0.0	0.0	66.0	2.6	1.3	0.0	0.0	20.1	0.0	32.8	-36.0
485	593493.61	4796795.52	104.95	2	DEN	A	82.7	0.7	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	20.1	0.0	16.3	-22.3
486	593494.46	4796796.26	104.95	2	DEN	A	82.7	0.4	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	20.1	0.0	16.3	-22.7
487	593495.88	4796797.49	104.95	2	DEN	A	82.7	4.2	0.0	0.0	0.0	65.5	2.5	1.4	0.0	0.0	20.1	0.0	16.3	-18.8
488	593496.91	4796798.39	104.95	2	DEN	A	82.7	-10.3	0.0	0.0	0.0	65.5	2.5	1.5	0.0	0.0	20.1	0.0	16.3	-33.4
489	593497.13	4796798.58	104.95	2	DEN	A	82.7	-3.1	0.0	0.0	0.0	65.5	2.5	1.4	0.0	0.0	20.1	0.0	16.3	-26.2
490	593502.32	4796803.08	104.94	2	DEN	A	82.7	-9.0	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.1	0.0	32.5	-48.1
491	593502.54	4796803.27	104.94	2	DEN	A	82.7	-3.5	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.1	0.0	32.5	-42.6
492	593502.89	4796803.57	104.94	2	DEN	A	82.7	-3.1	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.1	0.0	32.5	-42.2
493	593503.59	4796804.18	104.94	2	DEN	A	82.7	1.3	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.1	0.0	32.5	-37.8

Line Source, ISO 9613, Name: "Freight Train - Knuckle Thump", ID: "CN_Knuckle_imp"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
494	593504.16	4796804.68	104.94	2	DEN	A	82.7	-7.9	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.1	0.0	32.5	-47.0
495	593504.46	4796804.93	104.94	2	DEN	A	82.7	-2.0	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	20.1	0.0	32.5	-41.1
496	593505.32	4796805.68	104.94	2	DEN	A	82.7	2.2	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	20.1	0.0	32.5	-36.9
497	593520.10	4796818.50	104.91	2	DEN	A	82.7	0.7	0.0	0.0	0.0	65.2	2.4	1.3	0.0	0.0	20.3	0.0	32.3	-38.1
498	593521.43	4796819.66	104.91	2	DEN	A	82.7	3.7	0.0	0.0	0.0	65.2	2.4	1.4	0.0	0.0	20.2	0.0	32.3	-35.0
499	593522.71	4796820.76	104.91	2	DEN	A	82.7	0.1	0.0	0.0	0.0	65.2	2.4	1.3	0.0	0.0	20.3	0.0	32.3	-38.7
500	593535.34	4796831.72	104.89	2	DEN	A	82.7	-0.4	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	20.2	0.0	32.0	-38.7
501	593536.54	4796832.76	104.89	2	DEN	A	82.7	3.5	0.0	0.0	0.0	65.1	2.4	1.4	0.0	0.0	20.2	0.0	83.6	-86.4
502	593537.61	4796833.69	104.88	2	DEN	A	82.7	-2.4	0.0	0.0	0.0	65.1	2.4	1.4	0.0	0.0	20.2	0.0	83.6	-92.3
503	593548.24	4796842.92	104.87	2	DEN	A	82.7	-1.4	0.0	0.0	0.0	64.9	2.4	1.2	0.0	0.0	20.4	0.0	82.9	-90.5
504	593465.69	4796771.30	105.00	1	DEN	A	82.7	8.4	0.0	0.0	0.0	65.3	2.5	1.5	0.0	0.0	3.6	0.0	25.8	-7.4
505	593468.97	4796774.15	104.99	1	DEN	A	82.7	2.3	0.0	0.0	0.0	65.3	2.5	1.4	0.0	0.0	3.6	0.0	25.8	-13.6
506	593472.68	4796777.37	104.99	1	DEN	A	82.7	9.1	0.0	0.0	0.0	65.4	2.5	1.4	0.0	0.0	3.6	0.0	25.9	-7.0
507	593476.34	4796780.54	104.98	1	DEN	A	82.7	2.0	0.0	0.0	0.0	65.4	2.5	1.3	0.0	0.0	3.7	0.0	26.1	-14.2
508	593477.17	4796781.26	104.98	1	DEN	A	82.7	-2.2	0.0	0.0	0.0	65.4	2.5	1.5	0.0	0.0	3.6	0.0	26.0	-18.5
509	593494.93	4796796.67	104.95	1	DEN	A	82.7	-2.9	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	3.6	0.0	10.3	-2.7
510	593495.59	4796797.24	104.95	1	DEN	A	82.7	0.9	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	3.6	0.0	10.3	1.2
511	593496.14	4796797.72	104.95	1	DEN	A	82.7	-6.7	0.0	0.0	0.0	64.8	2.4	1.5	0.0	0.0	3.6	0.0	10.3	-6.5
512	593497.60	4796798.98	104.95	1	DEN	A	82.7	5.6	0.0	0.0	0.0	64.8	2.4	1.4	0.0	0.0	3.6	0.0	10.4	5.8
513	593455.65	4796762.59	105.02	2	DEN	A	82.7	1.8	0.0	0.0	0.0	65.0	2.4	1.4	0.0	0.0	3.6	0.0	12.4	-0.3
514	593503.90	4796804.45	104.94	1	DEN	A	82.7	-0.9	0.0	0.0	0.0	64.6	2.3	1.4	0.0	0.0	3.7	0.0	10.3	-0.4
515	593505.89	4796806.17	104.94	1	DEN	A	82.7	6.5	0.0	0.0	0.0	64.6	2.3	1.3	0.0	0.0	3.7	0.0	10.3	7.0
516	593507.66	4796807.71	104.93	1	DEN	A	82.7	-5.8	0.0	0.0	0.0	64.6	2.3	1.4	0.0	0.0	3.7	0.0	25.6	-20.7
517	593520.92	4796819.22	104.91	1	DEN	A	82.7	-5.6	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	25.3	-20.1
518	593521.36	4796819.59	104.91	1	DEN	A	82.7	-0.6	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	25.3	-15.1
519	593522.21	4796820.33	104.91	1	DEN	A	82.7	1.4	0.0	0.0	0.0	64.5	2.3	1.3	0.0	0.0	3.6	0.0	25.5	-13.1
520	593522.89	4796820.92	104.91	1	DEN	A	82.7	-4.0	0.0	0.0	0.0	64.5	2.3	1.3	0.0	0.0	3.6	0.0	25.5	-18.5
521	593523.51	4796821.46	104.91	1	DEN	A	82.7	0.9	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	25.4	-13.6
522	593524.13	4796822.00	104.91	1	DEN	A	82.7	-3.9	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	25.4	-18.4
523	593524.48	4796822.30	104.91	1	DEN	A	82.7	-2.9	0.0	0.0	0.0	64.5	2.3	1.5	0.0	0.0	3.6	0.0	25.4	-17.4
524	593536.23	4796832.49	104.89	1	DEN	A	82.7	-1.3	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	25.2	-15.4
525	593536.87	4796833.05	104.89	1	DEN	A	82.7	-0.2	0.0	0.0	0.0	64.3	2.3	1.5	0.0	0.0	3.6	0.0	25.1	-14.3
526	593537.36	4796833.48	104.89	1	DEN	A	82.7	-4.4	0.0	0.0	0.0	64.3	2.3	1.5	0.0	0.0	3.6	0.0	25.1	-18.5
527	593537.81	4796833.86	104.88	1	DEN	A	82.7	-0.9	0.0	0.0	0.0	64.3	2.3	1.5	0.0	0.0	3.6	0.0	25.1	-15.1
528	593538.49	4796834.45	104.88	1	DEN	A	82.7	-0.0	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.6	0.0	25.3	-14.1
529	593538.99	4796834.89	104.88	1	DEN	A	82.7	-4.7	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	25.3	-18.8
530	593548.90	4796843.49	104.87	1	DEN	A	82.7	-2.9	0.0	0.0	0.0	64.2	2.3	1.4	0.0	0.0	3.7	0.0	72.6	-64.2
531	593533.62	4796830.23	104.89	2	DEN	A	82.7	4.0	0.0	0.0	0.0	64.3	2.3	1.4	0.0	0.0	3.7	0.0	74.9	-59.7