



# **Environmental Noise Assessment**

# 1315 Silver Spear Road, Mississauga

# **Starlight Investments**

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# **Revision Record**

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# **Acronyms and Abbreviations**

AADT	Average Annual Daily Traffic
BPN	Building Practice Note 56
dBA	Decibels (A-weighted)
FCM	Federation of Canadian Municipalities
FTA	Federal Transit Administration
ISO	International Organization for Standardization
L <sub>eq</sub>	Energy Equivalent Sound Level
m	Metres
MPH	Mechanical Penthouse
MECP	Ministry of Environment Conservation and Parks
NEF	Noise Exposure Forecast
NPC-216	MECP Publication NPC-216
NPC-300	MECP Publication NPC-300
OBC	Ontario Building Code
OLA	Outdoor Living Area
OPA	Official Plan Amendment
ORNAMENT	Ontario Road Noise Analysis Method for Environment and Transportation
POR	Points of Reception
RAC	Railway Association of Canada
SLR	SLR Consulting (Canada) Ltd.
STC	Sound Transmission Class
ZBA	Zoning By-law Amendment



#### 1.0 Introduction

SLR Consulting (Canada) Ltd. (SLR) was retained by Starlight Investments to prepare an environmental noise assessment for the proposed development at 1315 Silver Spear Road in Mississauga, Ontario ("the Project site"). This report is in support of the proposed Site Plan Approval (SPA) application for the proposed development.

#### 1.1 **Focus of Report**

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

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

The architectural information received from Architecture Unfolded on February 6, 2025, dated February 5, 2025, was used in this assessment.

Mechanical systems associated with the development (e.g., cooling and ventilation equipment) have not been sufficiently designed at this stage and can be assessed at a future date, if required. A general discussion has been included in this report to address the impacts of the proposed development on the environment and on itself.

#### 1.2 **Nature of the Surroundings**

The Project site is surrounded by the following:

- Burnhamthorpe Road East, residential dwellings/townhouses, a gas station/car wash, and low- and high-rise commercial buildings beyond to the north;
- The Burnhamthorpe Library, high-rise residential buildings and low-rise commercial buildings along Dixie Road to the east;
- Mid-rise residential buildings, Silver Spear Road, and detached residential dwellings to the south; and
- A mid-rise residential building and detached residential homes to the west.

A context plan is shown in Figure 1.

#### 1.3 **Description of Proposed Development**

The proposed development is located approximately 140 m west of the intersection of Burnhamthorpe Road East and Dixie Road. There is an existing 8-storey apartment building (1315 Silver Spear Road Apartments) on the Project site adjacent to Silver Spear Road that will remain. A parking lot is located north of the existing apartment building and south of Burnhamthorpe Road. The parking lot will be partially removed to accommodate the proposed development.



The proposed development will consist of a 14-storey residential building with 4 levels of underground parking. The ground floor will have the lobby, indoor amenities spaces, as well as residential dwelling units. Levels 2 to 14 will contain residential dwelling units. Access to the Project site will be via Burnhamthorpe Road East and from Silver Spear Road.

Development drawings are provided for reference in **Appendix A**.

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

In evaluating potential impacts of the environment on the proposed development, the focus of this report is assessment of:

- Transportation noise from surrounding roadways; and
- Stationary noise from surrounding industries/facilities on the development.

The nearest railway is located more than 2.5 km south of the proposed development. Based on guidance outlined in the document entitled "Guidelines for New Development in Proximity to Railway Operations" prepared for the Railway Association of Canada and the Federation of Canadian Municipalities (RAC/FCM), the proposed development is outside of the recommended minimum noise influence area for Principal Main Lines (i.e., 300m). Therefore, rail traffic noise has not been considered further in this assessment.

The proposed development is also located outside of the Noise Exposure Forecast (NEF) 25 contour for Toronto Pearson International Airport; therefore, an assessment of aircraft noise is not required.

## 2.0 Transportation Noise Impacts

## 2.1 Transportation Noise Sources

Transportation sources with the potential to produce road traffic noise at the proposed development include:

- Burnhamthorpe Road East; and
- Dixie Road.

Road traffic sound levels from Burnhamthorpe Road East and Dixie Road have been predicted, and this information has been used to identify façade, ventilation, and warning clause recommendations/ requirements for the proposed development.

## 2.2 Surface Transportation Noise Criteria

## 2.2.1 Ministry of Environment Publication NPC-300

#### **Noise-Sensitive Development**

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 and rail) criteria.



## Location-Specific Criteria

**Table 1** summarizes criteria in terms of energy equivalent sound levels ( $L_{eq}$ ) 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: NPC-300 Sound Level Criteria for Road and Rail Noise

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

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

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

### **Outdoor Living Areas**

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

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

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

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



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#### **Ventilation and Warning Clauses**

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

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

Assessment Location	Time Period Energy Equivalent Sound Level – Leq (dBA)		Ventilation and Warning Clause Recommendations [2]				
		Road	Rail [1]				
Outdoor Living Area	Daytime (0700-2300h)	56 to 60 incl.		Type A Warning Clause			
Plane of Window	Daytime	≤ 55		None			
	(0700-2300h)	56 to 65 incl.		Forced Air Heating with 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 with provision to add air conditioning + Type C Warning Clause			
		> 60		Central Air Conditioning + Type D Warning Clause			
Notes: [1] Whistle noise is excluded from assessment. [2] Road and Rail noise is combined for determining Ventilation and Warning Clause requirements							

### **Building Component Requirements**

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

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

Assessment Location	Time Period		valent Sound <sub>-eq</sub> (dBA)	Component Requirements	
Location		Road	Rail [1]		
Dlane of Window	Daytime (0700-2300h)	> 65	> 60	Designed/ Selected to Meet	
Plane of Window	Night-time (2300-0700h)	> 60	> 55	Indoor Requirements [2]	

[1] Whistle noise is included in assessment. Notes:

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



#### 2.2.2 Region of Peel

The Region of Peel Guidelines include the General Guidelines for the Preparation of Acoustical Reports in the Region of Peel, dated November 2012 (ROP Guidelines). In general, the region of Peel Guidelines are consistent with the MECP NPC-300 guidelines. Therefore, the guidelines have not been re-iterated.

#### 2.2.3 City of Mississauga

Mississauga Official Plan provides policies pertaining to stationary and transportation noise sources, noise mitigation through site and building design, and rail safety setbacks dated August 2024. The applicable portion of the Mississauga Official Plan is Chapter 6 – Value the Environment. In general, the City of Mississauga's road and rail noise guidelines are consistent with the MECP NPC-300 guidelines. Notable differences include a requirement to make every effort to meet the OLA guideline suggested sound level of 55 dBA.

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

#### 2.3.1 **Road Traffic Data**

Ultimate annual average daily traffic (AADT) volumes and details (daytime/night-time splits, medium/heavy truck percentages and speed limits) for Burnhamthorpe Road East were obtained from the traffic data provided by the City of Mississauga Transportation and Works Department on September 8, 2023.

The Peel Region Public Works Transportation Division provided ultimate AADT volumes and details (daytime/night-time splits, medium/heavy truck percentages and speed limits) for Dixie Road on September 7, 2023.

Copies of traffic data and calculations are provided for reference in Appendix B. Table 5 summarizes the road traffic data used in the analysis.

Table 5: Summar	v of Road Traffic Data I	Used in Trans	portation Analysis

Roadway	Traffic		% Day/Night Volume Split		Commercial Vehicle Breakdown	
Volumes AADT		Daytime	Night-time	% Medium Trucks	% Heavy Trucks	(km/hr)
Burnhamthorpe Road East [1]	35,500	90	10	2.75	2.25	60
Dixie Road [2]	48,600	90	10	1.35 (Day) 2.00 (Night)	6.89 (Day) 4.82 (Night)	60

Notes: [1] Based on data provided by City of Mississauga.

[2] Based on data provided by Peel Region.



#### 2.4 Predicted Sound Levels

Future road traffic sound levels at the proposed development were predicted using Cadna/A, a commercially available noise propagation modelling software package. 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 and output are included for reference in **Appendix C**.

Sound levels were predicted along the facades of the proposed development using the "building evaluation" feature of Cadna/A. This feature allows for noise levels to be predicted across the entire façade of a structure. OLA sound levels were assessed at the centre of the rooftop amenity spaces at a height of 1.5 m above the rooftop. The at-grade OLAs were also assessed at a standing height of 1.5 m above grade.

Global ground absorption was conservatively considered to be reflective (G = 0.0), and 1 m topographic contours for the Project site and surrounding area were included in the model.

It was determined that Burnhamthorpe Road East has a 2.9% change in grade between Golden Orchard Drive and Dixie Road. This was considered in the road traffic analysis in accordance with the guidance in the ORNAMENT document.

#### 2.4.1 Façade Sound Levels

Predicted worst-case façade sound levels due to road traffic are presented in Table 6.

The predicted daytime and night-time road traffic sound levels along all building facades associated with the proposed development are shown in **Figure 2** (daytime) and **Figure 3** (night-time).

Table 6: Summary of Predicted Worst-Case Transportation Façade Sound Levels

Building	Façade <sup>[1]</sup>	Maximum Predicted Road Traffic Sound Levels <sup>[2]</sup>		
		L <sub>eq</sub> Daytime (dBA)	L <sub>eq</sub> Night-time (dBA)	
Proposed Development	North	71	64	
– 14 Storeys	East	68	61	
	South	60	53	
	West	68	61	

**Notes:** [1] Building façade roadway sound levels are shown in **Figure 2** (daytime) and **Figure 3** (night-time). [2] Sound levels presented above are the highest for the identified building facade.

The façade road traffic sound levels are predicted to exceed 65 dBA and 60 dBA during the daytime and night-time periods, respectively (i.e., the thresholds described in **Table 4**) at some locations within the proposed development. Therefore, an assessment of building components is required. Refer to **Section 2.5.1**.



### 2.4.2 Outdoor Living Area Sound Levels

The Outdoor Living Areas (OLAs) of the proposed development are located at the rooftop amenity on the east and west side of the mechanical penthouse (MPH), and at grade, southeast and southwest of the proposed development building. The assessment locations are shown in **Figure 4**.

The assessment includes the effects of the parapet around the rooftop, as shown in the elevation drawing. Predicted OLA sound levels from the surrounding roadways are presented in **Table 7** and shown in **Figure 4**.

Table 7: Summary of Predicted Transportation Outdoor Living Area Sound Levels

OLA Assessment Location	Assessment Location Description	Predicted Sound Level, L <sub>eq</sub> Daytime (dBA)			
OLA-1 <sup>[1]</sup>	Rooftop Amenity (West of MPH)	53			
OLA-2 <sup>[1]</sup>	Rooftop Amenity (East of MPH)	56			
OLA-3	At-Grade Amenity (Southeast of the proposed development building)	60			
OLA-4	At-Grade Amenity (Southwest of the proposed development building)	51			
Notes:[1] Rooftop parapet is included for these predicted values.					

The predicted roadway sound levels at the OLAs are 60 dBA or lower, which is at or below the MECP criteria. Predicted roadway sound levels at the OLA-2 and OLA-3 are predicted to be above the City of Mississauga suggested guideline. Therefore, mitigation and warning clauses will be required. Refer to **Section 2.5.2**.

#### 2.5 Noise Control Measures

### 2.5.1 Façade Assessment

### 2.5.1.1 Building Components

An assessment of indoor noise levels is required because façade sound levels due to road traffic exceed 65 dBA and 60 dBA during the daytime and night-time periods, respectively, on the north, east and west building façade of the proposed development.

Indoor sound levels and required facade Sound Transmission Classes (STCs) were estimated using the procedures outlined in National Research Council Building Practice Note 56 (BPN-56). Detailed floor plans and elevation drawings were not available at the time of the assessment. The preliminary façade requirements analysis is therefore based on the following assumptions.

- Non-glazing portions of the exterior walls are assumed to have a rating of STC 45 (i.e., representing a spandrel panel construction);
- For living/dining rooms, 70% of the exterior facade is vision glass/patio doors and rooms have intermediate absorption; and
- For bedrooms, 70% of the exterior wall is vision glass and rooms have intermediate absorption.



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The building façade requirements based on the road traffic façade sound levels and assumptions listed above are outlined in **Table 8** for residential units with one exposed façade, and in **Table 9** for corner units with two exposed facades.

Table 8: Summary of Façade Glazing Requirements for Proposed Development – One Exposed Facade

Building	Applicable	STC Rating of Non-Glazing Components <sup>[1]</sup>	Glazing STC Requirements <sup>[1]</sup>			
	Façade(s)/ Location(s)		Living/Dining Room	Bedroom		
Proposed Development – 14 Storeys	North	45	30	33		
	East	45	OBC	30		
	South	45	OBC	OBC		
	West	45	OBC	30		

Notes: [1] OBC = meeting the minimum non-acoustical requirements of the Ontario Building Code, with a rating of STC 29 for windows and STC 45 for exterior walls.

Table 9: Summary of Façade Glazing Requirements for Proposed Development – Corner Units

Building	Applicable	STC Rating of Non-	Glazing STC Requirements <sup>[1]</sup>		
	Corner	Glazing Components <sup>[1]</sup>	Living/Dining Rooms	Bedrooms	
Proposed	Northeast	45	32	35	
Development  – 14 Storeys	Southeast	45	OBC	31	
11 Otoroyo	Southwest	45	OBC	31	
	Northwest	45	32	35	

**Notes:** [1] OBC = meeting the minimum non-acoustical requirements of the Ontario Building Code, with a rating of STC 29 for windows.

At locations with requirements noted as 'OBC', wall and window construction meeting the minimum non-acoustical requirements of the Ontario Building Code (OBC) are predicted to be sufficient to meet the indoor noise guidelines.

Where upgraded glazing is required, the combined glazing and frame assembly must be constructed to ensure the overall sound isolation performance of the entire window unit meets the specified STC rating. It is recommended that the window manufacturer's test data be reviewed to confirm the required acoustical performance is achieved.

As the requirements in **Table 8** and **Table 9** are based on assumed dimensions as noted above, the STC requirements should be reviewed by an Acoustical Consultant when detailed suite layouts and elevations are available.



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2.5.1.2 Ventilation and Warning Clause Recommendations

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

Based on the predicted façade sound levels, an MECP Type D warning clause and central air conditioning are recommended for all residential units in the development.

Ventilation and warning clause recommendations are summarized in Appendix D.

### 2.5.2 Outdoor Living Area Assessment

### 2.5.2.1 **OLA Mitigation Recommendations**

Predicted roadway sound levels at OLA-2 and OLA-3 are predicted to be above the City of Mississauga suggested sound level but meet the MECP limits.

**Table 10** shows the predicted sound level at each of the OLAs with the inclusion of various barrier heights. **Figure 5** shows the locations of the modified barriers.

Table 10: Predicted OLA Sound Level as Height of Acoustic Barrier Increases

Barrier Height (m)	Predicted Sound Level, L <sub>eq</sub> Day (dBA)				
	OLA-2	OLA-3			
1.3	56	60			
1.5	55	59			
1.7		56			
2.0		55			

#### **City of Mississauga Suggested Sound Level**

The results presented in **Table 10** show that the following barrier heights are required for compliance with City of Mississauga suggested sound level (55 dBA suggested limit):

- Rooftop outdoor amenity space (OLA-2) 1.5 m high sound barrier along the edge of the rooftop; and
- At-grade outdoor amenity (OLA-3) 2.0 m high sound barrier along the northern, eastern and southern portion of the outdoor amenity.

The barriers can be composed of solid walls or other materials such as glass/plexiglass panels. The materials used to construct the barriers should be selected so that they have sufficient mass to adequately attenuate the road traffic noise (generally, a minimum surface density of 20 kg/m²).

The barriers should be free of gaps and cracks on the sides and bottom, except for small, localized openings required for drainage purposes. The system should also be designed to withstand appropriate wind loading.



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### 2.5.2.2 Warning Clause Recommendations

#### **MECP NPC-300 Criteria**

The predicted OLA sound levels associated with the proposed development are 60 dBA or lower. Based on an MECP NPC-300 criteria, Type A warning clause is therefore recommended for all residential units in the development.

#### City of Mississauga Suggested Sound Level

The acoustic barrier is recommended for rooftop outdoor amenity space (OLA-2) and at-grade outdoor amenity (OLA-3) to comply with the City of Mississauga suggested sound level (55 dBA criteria). Therefore, an MECP Type B warning clause is recommended for all residential units in the development based on the City of Mississauga suggested sound level.

OLA warning clause recommendations are summarized in **Appendix D**.

## 3.0 Stationary Source Noise Assessment

A site visit to the Project site and surrounding area was completed by SLR personnel on September 22, 2023. Based on information obtained from site visit and detailed review of recently available aerial imagery, the significant sources of noise in proximity to the Project site with the potential for stationary source noise impacts at the proposed development have been identified. The site was found to be primarily surrounded by institutional and residential land uses.

Noise sources in the area requiring assessment were determined primarily based on the MECP Guideline D-6 Potential Influence Areas. The library and gas station near the proposed development are considered to be Class I industries, in which a 70 m area of influence is typically applied for assessing stationary sources. There are no Class II industries within 300 m of the Project site, or Class III industries within 1000 m. Therefore, no Class II or III industries have been considered in this assessment.

The Burnhamthorpe Library was identified on current aerial photography and during the site visit as a potential source of stationary noise, and it is located within 70 m of the Project site (shown in **Figure 6**). Therefore, stationary noise from the facility was assessed. Additionally, SLR identified a Shell car wash/gas station/Jiffy Lube auto shop at 1349 Burnhamthorpe Road east, west of Dixie Road. Although this facility is more than 70 m away, assessment of noise from the facility was included for completeness due to the observed south-facing car wash exit.

No other stationary sources of noise were identified in proximity to the proposed development that require further assessment.

## 3.1 Stationary Source Modelling

Based on information obtained during the site visit, and a review of aerial photography, the sources of noise with the potential to produce noise at the proposed development have been identified. Sound levels for the sources were determined based on at-grade measurements collected during the site visit on September 22, 2023, and information contained in the SLR inhouse database.



Modelled facilities and sources of noise include:

- Burnhamthorpe Library 3650 Dixie Road # 101
  - o 12 rooftop HVAC units, ranging in size from 5 tons to 30 tons; and
- Shell Gas Station/Jiffy Lube 1349 Burnhamthorpe Road East
  - Car wash entrance;
  - Car wash exit dryer;
  - Two vehicle vacuums;
  - Up to 10 vehicles idling in the car wash queue;
  - o Two rooftop HVAC units associated with the Shell and Jiffy Lube; and
  - Breakout noise from the Jiffy Lube Bay doors (considering impact wrench and compressed air noise from the auto shop).

Sound levels from stationary sources 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 the default global parameter;
- Reflection: One (1) order of reflection was used (accounts for noise reflecting from walls);
- Wall Absorption Coefficients: Set to 0.21 or 0.37 (21%/37% of energy is absorbed, 79%/63% reflected); and
- Terrain: 1 m topographical contours obtained from City of Mississauga Open Data Portal.

A summary of the sound levels used in the analysis and equipment operating conditions is included in **Appendix E**. All stationary sources modelled are shown in **Figure 6**.



#### 3.2 **Stationary Source Noise Criteria**

MECP guidelines for stationary source noise impacting residential developments are given in MECP Publication NPC-300. The applicable portions of NPC-300 are Part C – Land Use Planning and the associated definitions outlined in Part A – Background.

The acoustic environment surrounding the proposed development is generally dominated by roadway noise from Burnhamthorpe Road East and Dixie Road during all periods of the day. Therefore, the proposed development is considered to be located in a Class 1 area.

The sound level limits for steady sound sources are expressed as a 1-hr equivalent sound level (Leg (1 hr) values, in dBA) and is the higher of the NPC-300 exclusionary limits or the existing background sound level. The NPC-300 minimum exclusionary stationary source guidelines for a Class 1 Area are summarized in **Table 11** for continuous, steady sound sources.

Table 11: NPC-300 Class 1 Continuous, Steady Source Sound Level Limits

Point of Reception Category	Time Period	Minimum Exclusionary Sound Level Limit L <sub>eq</sub> (1-hr), dBA <sup>[1]</sup>			
Outdoors	Daytime (0700-1900h)	50			
	Evening (1900-2300h)	50			
	Night-time (2300-0700h)	N/A <sup>[3]</sup>			
Plane of	Daytime (0700-1900h)	50			
Window [2]	Evening (1900-2300h)	50			
	Night-time (2300-0700h)	45			
Notes: [1] Or minimum hourly Leq of background noise; whichever is higher.					

[2] Applicable for windows opening into "noise-sensitive spaces" as defined in NPC-300.

[3] Sound level limits during night-time hours are not applicable at outdoor points of reception.

Since ambient sound levels were anticipated to exceed the NPC-300 exclusionary limits for most facades and time periods, minimum hourly sound levels for daytime, evening and nighttime hours from Burnhamthorpe Road East and Mississauga Road were assessed and the corresponding applicable guideline limits were determined.

Table 12 summarizes the current road traffic volumes and details applied in the ambient noise modelling.

Minimum hourly traffic volumes as a percentage of the AADT for Dixie Road were based on data from the SLR database for typical arterial roadways. Minimum hourly traffic volumes as a percentage of the 24-hour traffic volume for Burnhamthorpe Road East were based on year 2016 hourly traffic counts provided by the City of Mississauga. Copies of traffic data and calculations are provided for reference in **Appendix B**.



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Table 12: Summary of Road Traffic Data Used to Determine Minimum 1-hr Ambient Sound Levels

Roadway Link	Current Traffic Volumes	Minimum Day/Evening/Night Hour Volume % of AADT		Commercial Vehicle Breakdown		Vehicle Speed (km/hr)	
		Daytime	Evening	Night- time	% Medium Trucks	% Heavy Trucks	
Burnhamthorpe Road East <sup>[1]</sup>	26,346	4.6	2.3	0.2	2.75	2.25	60
Dixie Road [2]	22,100	4.3	3.1	0.4	1.35 (Day) 2.00 (Night)	6.89 (Day) 4.82 (Night)	60

Notes: [1] Year 2016 24-hour traffic volume provided by City of Mississauga.

[2] Year 2019 AADT data provided by Peel Region.

As with the transportation noise assessment, ambient roadway noise was modelled as line sources of sound using the Cadna/A computer model. The minimum hourly Leg for the ambient sound levels were found to exceed the NPC-300 minimum exclusionary guideline limits during most periods of the day at most assessment locations on the facades of the proposed development.

Surrounding facility noise impacts were assessed against the higher of the modelled ambient noise levels and the exclusionary limits calculated using road traffic data summarized in **Table 12**. Ambient sound levels are shown in **Figure 7** (daytime), **Figure 8** (evening) and Figure 9 (night-time).

#### 3.3 **Predicted Stationary Source Sound Levels**

The "building evaluation" feature of Cadna/A was used to assess facade sound levels on the proposed development. This feature allows for noise levels to be predicted across the entire façade of a structure.

Outdoor sound levels were assessed at a height of 1.5 m above the rooftop and at-grade amenity area, at all usable locations within these amenity spaces.

#### 3.3.1 Façade Sound Levels

A summary of the predicted sound levels on each facade due to simultaneous operation of all modelled stationary sources are shown in Table 13 and summarized in Figure 10 (daytime/evening) and Figure 11 (night-time), respectively. Stationary source operating scenarios are provided for reference in **Appendix E**. The daytime and evening operating scenarios were considered to be the same.

The differences between the existing ambient sound levels and the stationary noise sound levels are shown in Figure 12, Figure 13 and Figure 14 for daytime, evening, and night-time periods, respectively.

Predicted stationary sound levels at all façade locations associated with proposed development were determined to be below ambient sound levels or NPC-300 Class 1 minimum exclusionary limits during worst-case daytime, evening and night-time hours.



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Table 13: Summary of Predicted Stationary Source and Ambient Façade Sound Levels

Building	Façade	Predicted Stationary Source Sound Levels – L <sub>eq</sub> (1-hr) (dBA)		Ambient Sound Levels L <sub>eq</sub> (1-hr) (dBA)			
		L <sub>eq</sub> Day (dBA)	L <sub>eq</sub> Evening (dBA)	L <sub>eq</sub> Night (dBA)	L <sub>eq</sub> Day (dBA)	L <sub>eq</sub> Evening (dBA)	L <sub>eq</sub> Night (dBA)
Proposed Development – 14 Storeys	North	52	52	44	≤ 68	≤ 65	≤ 54
	East	55	55	48	≤ 66	≤ 63	≤ 52
	South	52	52	46	≤ 58	≤ 56	≤ 46
	West	30	30	23	≤ 65	≤ 62	≤ 51
Notes: [1] Façade locations are identified on Figure 10 and Figure 11.							

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

An MECP Type E warning clause is recommended for all residential units due to the proximity of the proposed development to nearby noise sources.

#### 3.3.2 **Outdoor Sound Levels**

The predicted sound levels at outdoor points of reception (POR) are summarized in Table 14 and shown in Figure 15 for daytime and evening periods. The predicted sound levels at the outdoor points of reception are predicted to be below the minimum ambient daytime and evening sound levels due to road traffic at all outdoor amenity area locations. Therefore, mitigation is not required.

**Table 14: Summary of Predicted Stationary Source Outdoor Sound Levels** 

Outdoor	Stationary Source	e Sound Levels <sup>[2]</sup>	Ambient Sound Levels [3]		
Assessment Location [1]	L <sub>eq</sub> Daytime (dBA)	L <sub>eq</sub> Evening (dBA)	L <sub>eq</sub> Daytime (dBA)	L <sub>eq</sub> Evening (dBA)	
OPOR-1	40	40	54	52	
OPOR-2	41	41	57	55	
OPOR-3	43	43	57	55	
OPOR-4	37	37	48	46	
Notes: [1] Outdoor assessment locations are shown in Figure 15.					



## Part 2: Impacts of the Development on Itself

# 4.0 Stationary Source Noise from the Development on Itself

At the time of this assessment, mechanical systems for the proposed development have not been sufficiently designed to complete a detailed assessment of stationary source noise from the development on itself.

For common mechanical systems that will be implemented as part of the proposed development, sound levels from all noise-generating equipment should comply with the guideline limits in MECP Publication NPC-300. The potential noise from mechanical equipment in the proposed development (such as from make-up air units, cooling towers, parking garage exhaust fans, emergency generators, etc.) should be assessed as part of the final building design. The applicable criteria can be met at all on-site receptors through appropriate selection of mechanical equipment, by locating equipment with sufficient setback from noise sensitive locations, and by incorporating control measures (e.g., silencers) into the design. This can be confirmed either later in the site plan approval process, or at the building permit approval stages.

If individual air conditioning systems are to be implemented for individual residential units within the proposed development, the sound levels from each unit should meet the requirements of MECP Publication NPC-216.

It is recommended that the mechanical systems be reviewed by an acoustical consultant prior to final equipment selection.

# Part 3: Impacts of the Development on the Surrounding Area

# 5.0 Stationary Source Noise from the Development on the Surroundings

With respect to the acoustic environment of the area, it is expected that the proposed development will have a negligible effect on neighbouring noise-sensitive properties.

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 transportation noise.

Other sources associated within the proposed development with the potential to generate noise are mechanical equipment (e.g., air conditioning units, make up air units, cooling units, and parking garage exhaust fans). Sound levels due to operation of these sources should meet MECP Publication NPC-300 noise guidelines at all off-site noise sensitive receptors.

Off-site sound levels are not expected to be of concern are not anticipated because systems will be designed to ensure that the applicable noise guidelines are met at on-site receptors.

Regardless, off-site sound levels from mechanical equipment should be assessed as part of the final building designs. The applicable criteria can be met at all surrounding 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 designs.



If individual air conditioning systems are to be implemented for individual residential units within the proposed development, the sound levels from each unit should meet the requirements of MECP Publication NPC-216.

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

### 6.0 Conclusions and Recommendations

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

#### **Transportation Noise**

- An assessment of transportation sound levels from surrounding roadways has been completed.
- Based on transportation façade sound levels upgraded glazing is required within the development, as outlined in outlined in Section 2.5.1.
- Ventilation and warning clause recommendations are outlined in Section 2.5.2.
  - Mandatory air conditioning and MECP Type D warning clauses are required for all residential units in the development noted in **Section 2.5.1** and **Appendix D**.
- Transportation sound levels at the amenity areas are predicted to be 60 dBA or lower. Therefore, MECP Type A and/or Type B warning clause is recommended for all residential units based on MECP NPC-300 and City of Mississauga suggested sound level, respectively.
- A 1.5 m and 2.0 m acoustic barrier for rooftop amenity (OLA-2) and at-grade amenity (OLA-3), respectively is recommended, as outlined in **Section 2.5.2**.
- Warning clauses should be included in agreements registered on Title for the residential units and included in agreements of purchase and sale/rental agreements.
  - Warning clause recommendations are summarized in Appendix D.

#### **Stationary Source Noise**

- A review of the surrounding stationary noise sources was completed by SLR personnel during a site visit to the area and through available aerial photography.
- Stationary source noise impacts were assessed for Burnhamthorpe Library and a nearby Gas Station/Car Wash/Jiffy Lube.
- Stationary source sound levels were determined to be below the higher of the minimum hourly ambient sound levels or NPC-300 Class 1 minimum exclusionary limits at all locations within the proposed development.
- As the proposed development is located in proximity to stationary noise sources, a Type E warning clause is recommended for all residential units.



#### **Overall Assessment**

- Noise from the environment on the proposed development can be adequately controlled with the inclusion of upgraded glazing, ventilation and warning clause recommendations as detailed in Part 1 of this report.
- Noise from the proposed development on itself is not expected to be of concern and can be adequately controlled by following the design guidance outlined in **Part 2** of this report.
- Noise from the proposed development on the surroundings is 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 in detail, the acoustical design should be reviewed by an acoustical consultant during site plan approval process, or as part of the final building design.

## 7.0 Closure

Regards,

SLR Consulting (Canada) Ltd.



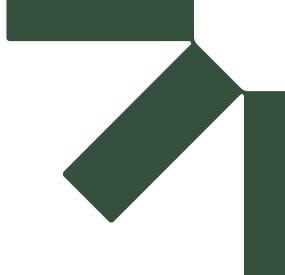
Sabah Ersum, M.Eng. Acoustics Consultant sersum@slrconsulting.com Aaron K. Haniff, P.Eng.
Principal, Acoustics Engineer
ahaniff@slrconsulting.com



## 8.0 References

- City of Mississauga Official Plan, Chapter 6 Value the Environment, August 2024.
- Federation of Canadian Municipalities and the Railway Association of Canada, Guidelines for New Development in Proximity to Railway Operations, 2013.
- International Organization for Standardization, ISO 9613-2: Acoustics Attenuation of Sound During Propagation Outdoors Part 2: General Method of Calculation, Geneva, Switzerland, 1996.
- 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 Park, STAMSON v5.04: Road, Rail and Rapid Transit Noise Prediction, 1996.
- Ontario Ministry of the Environment and Energy, Publication NPC-216: Residential Air Conditioning Devices, 1993.
- Region of Peel, General Guidelines for the Preparation of Acoustical Reports in the Region of Peel, 2020.





# **Figures**

# **Environmental Noise Assessment**

1315 Silver Spear Road, Mississauga

**Starlight Investments** 

SLR Project No.: 241.031124.00001

February 19, 2025





**CONTEXT PLAN** 

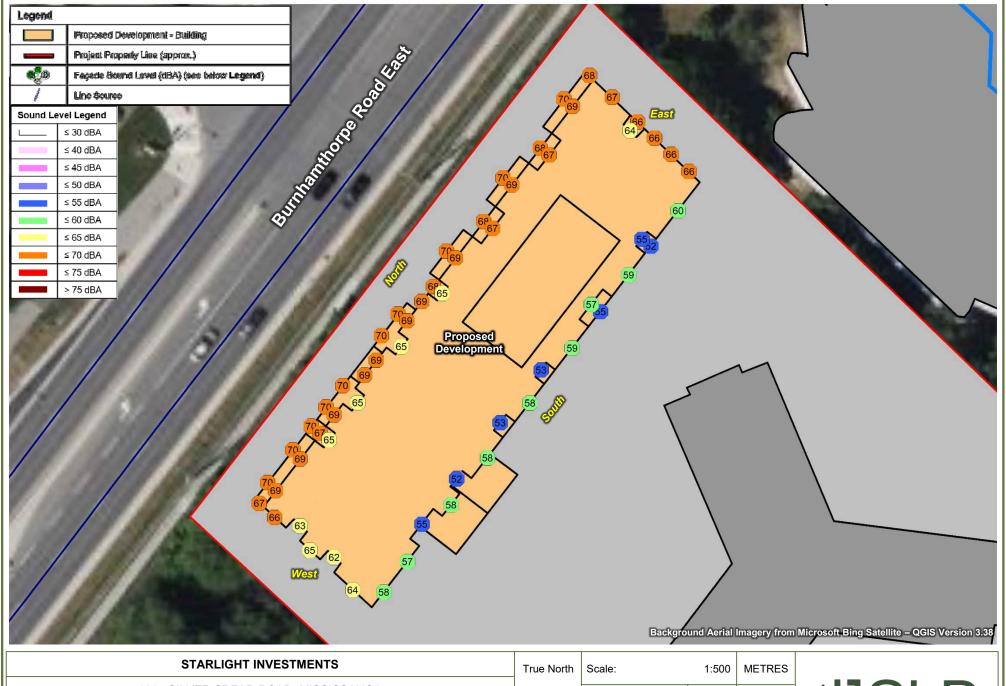


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 Date: Feb. 2025
 Rev. 0
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Project No. 241.031124.00001

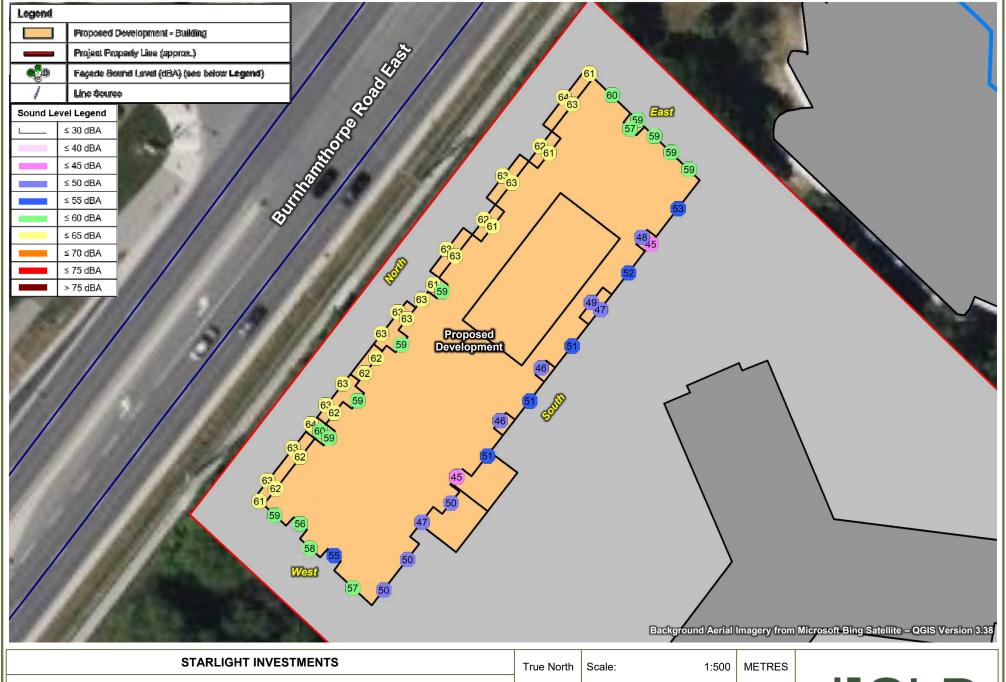


PREDICTED FAÇADE SOUND LEVELS – ROAD TRAFFIC – DAYTIME



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Project No. 241.031124.00001	2		





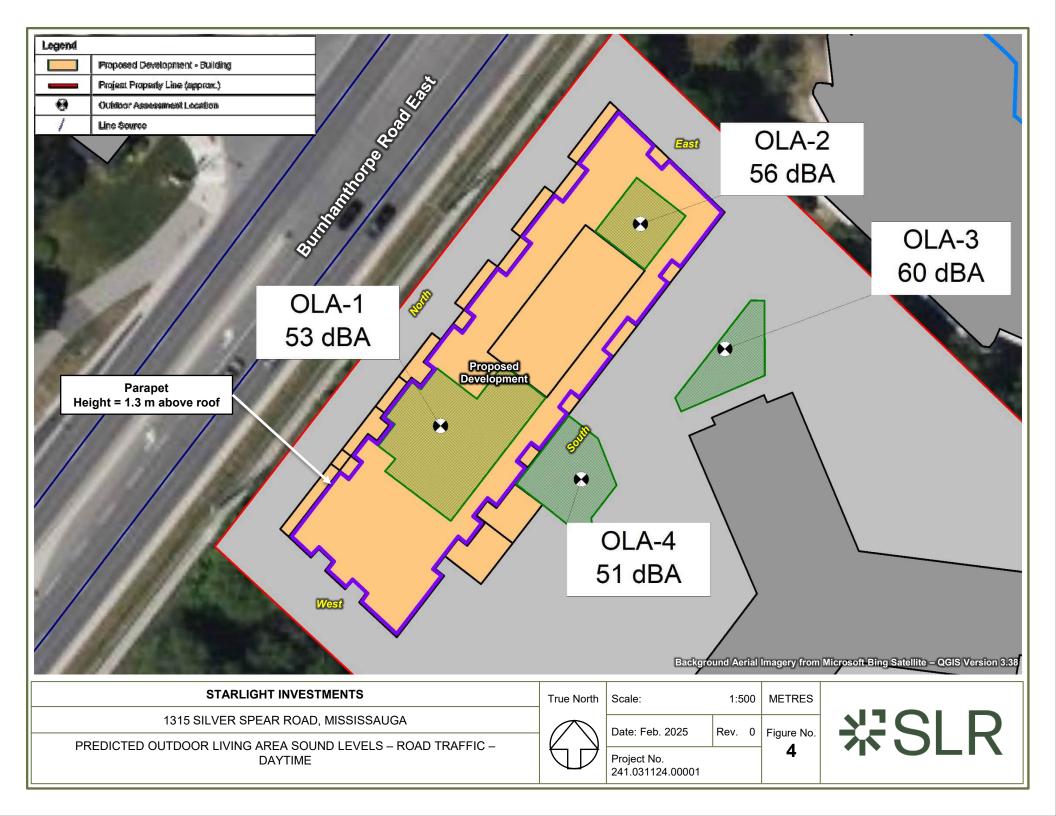
PREDICTED FAÇADE SOUND LEVELS - ROAD TRAFFIC - NIGHT-TIME

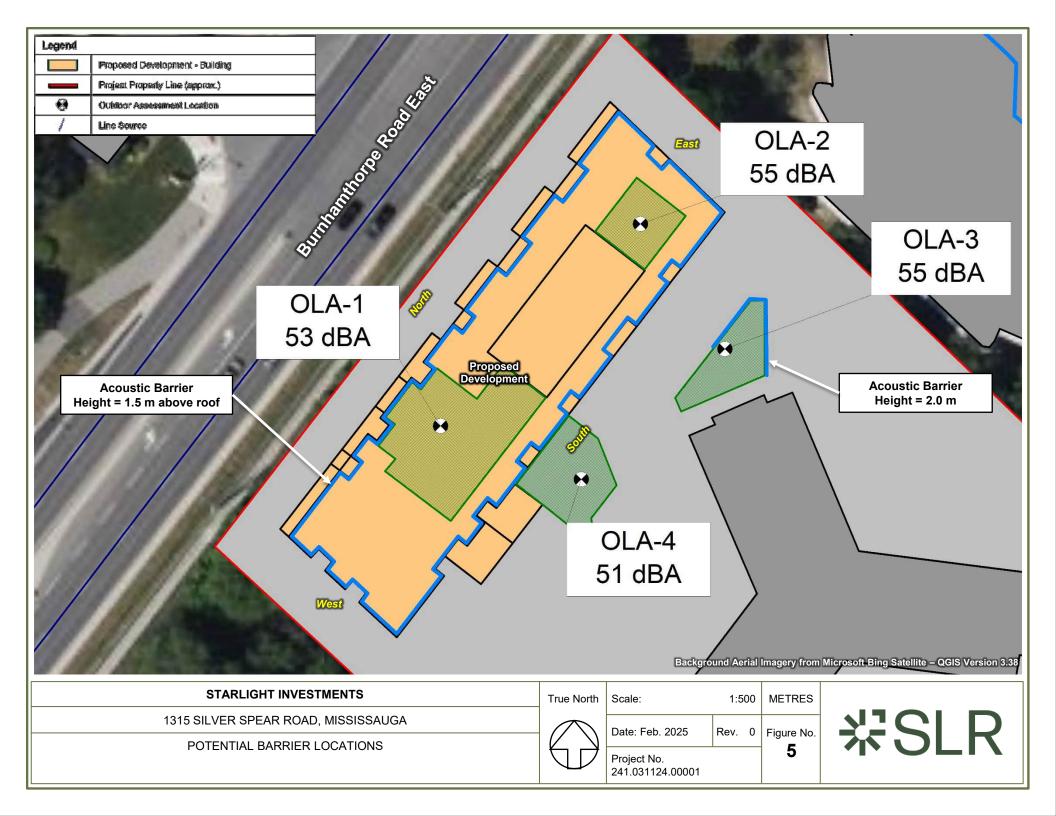
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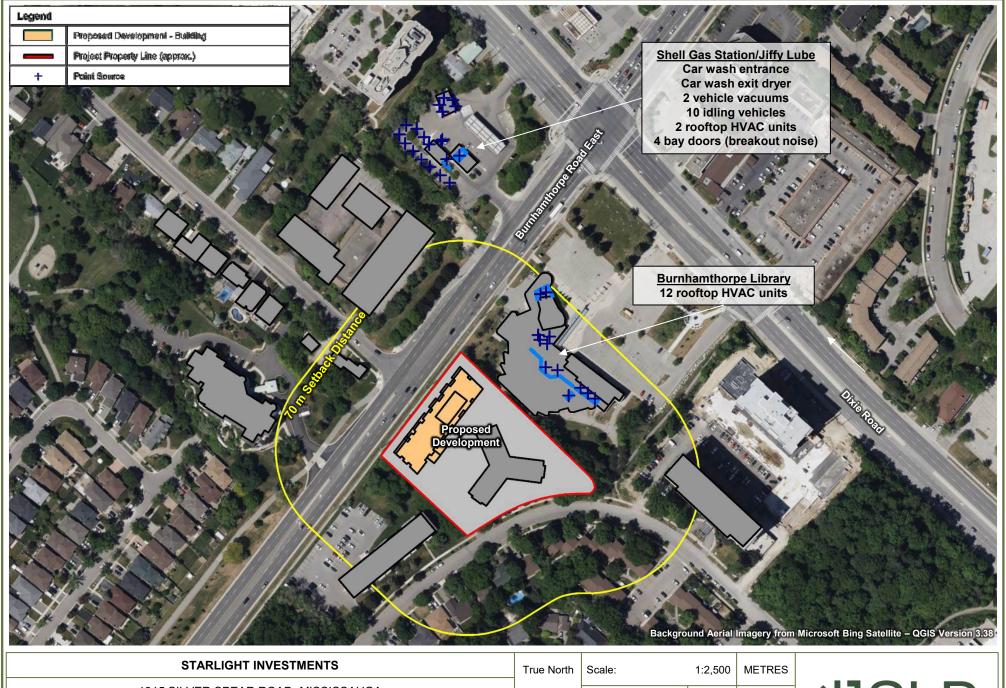
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袋SLR Figure No.







SURROUNDING STATIONARY SOURCE LOCATIONS

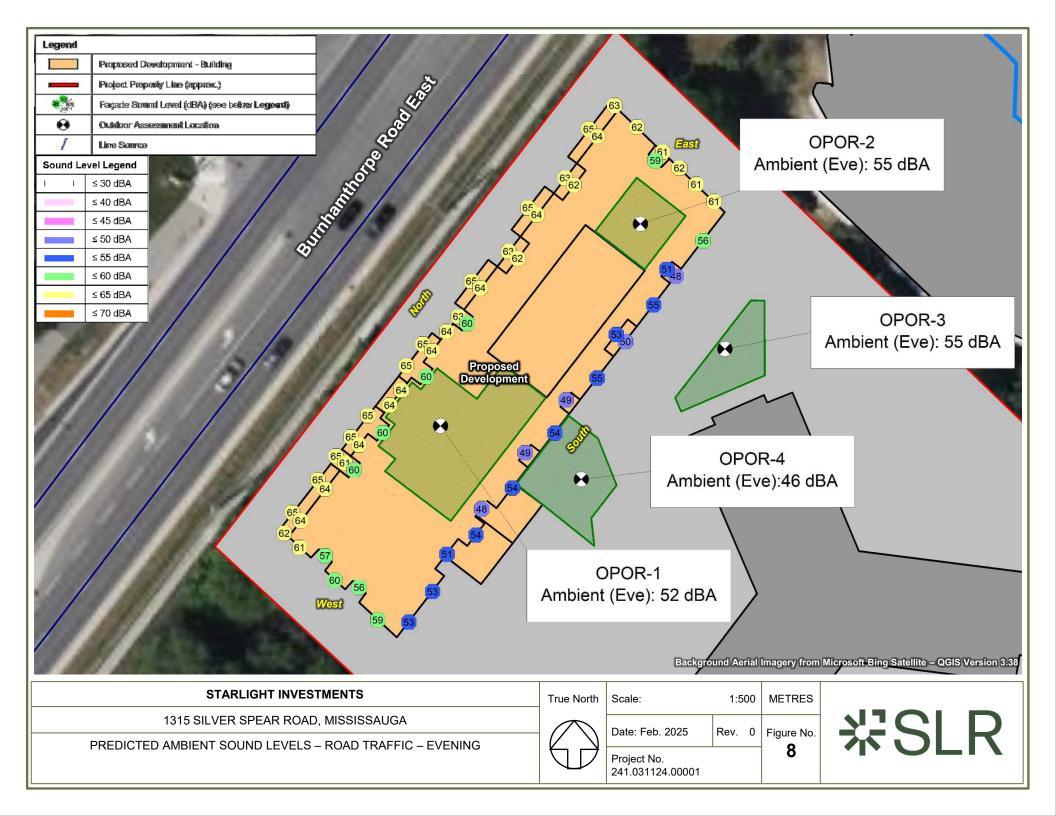


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PREDICTED AMBIENT SOUND LEVELS - ROAD TRAFFIC - NIGHT-TIME



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Date: Feb. 2025	Rev. 0	Figure No.
Project No.		9

241.031124.00001





PREDICTED FAÇADE SOUND LEVELS – STATIONARY SOURCES – DAYTIME/EVENING



Project No.

241.031124.00001

 Scale:
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 Date: Feb. 2025
 Rev. 0
 Figure No.

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 Figure No.
 Figure No.



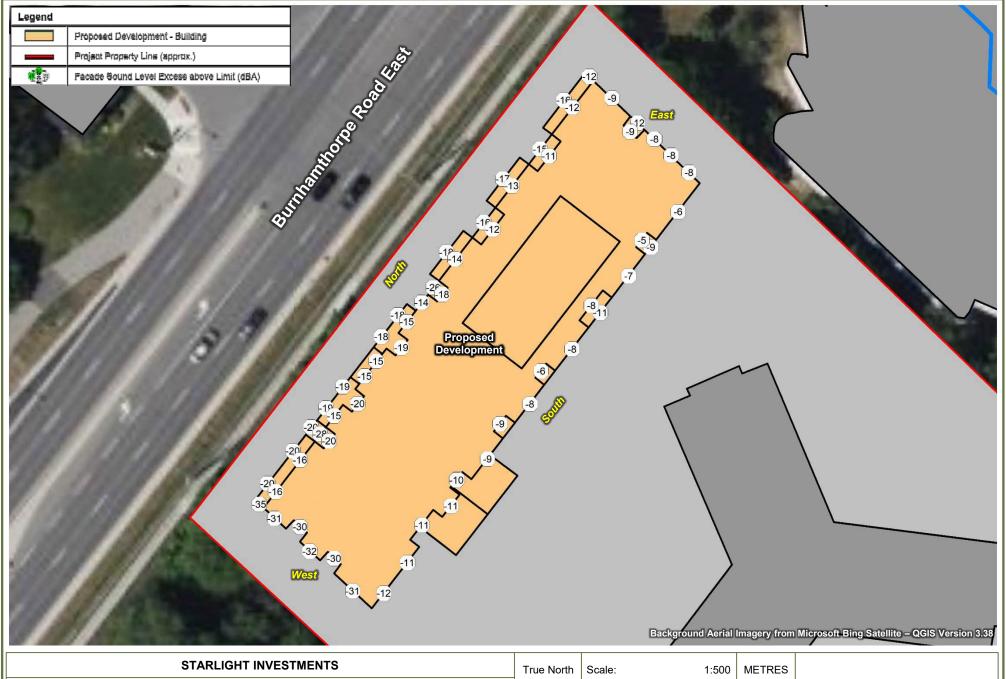


PREDICTED FAÇADE SOUND LEVELS - STATIONARY SOURCES - NIGHT-TIME

241.031124.00001

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Date: Feb. 2025	Rev. 0	Figure No.
Project No.		11





PREDICTED FAÇADE SOUND LEVELS EXCESSES - STATIONARY SOURCES -DAYTIME



Scale:	1:5	00	METRES
Date: Feb. 2025	Rev.	0	Figure No.
Project No. 241.031124.00001			12





PREDICTED FAÇADE SOUND LEVELS EXCESSES - STATIONARY SOURCES -**EVENING** 



Scale:	1:5	00	METRES
Date: Feb. 2025	Rev.	0	Figure No.
Project No. 241.031124.00001			13



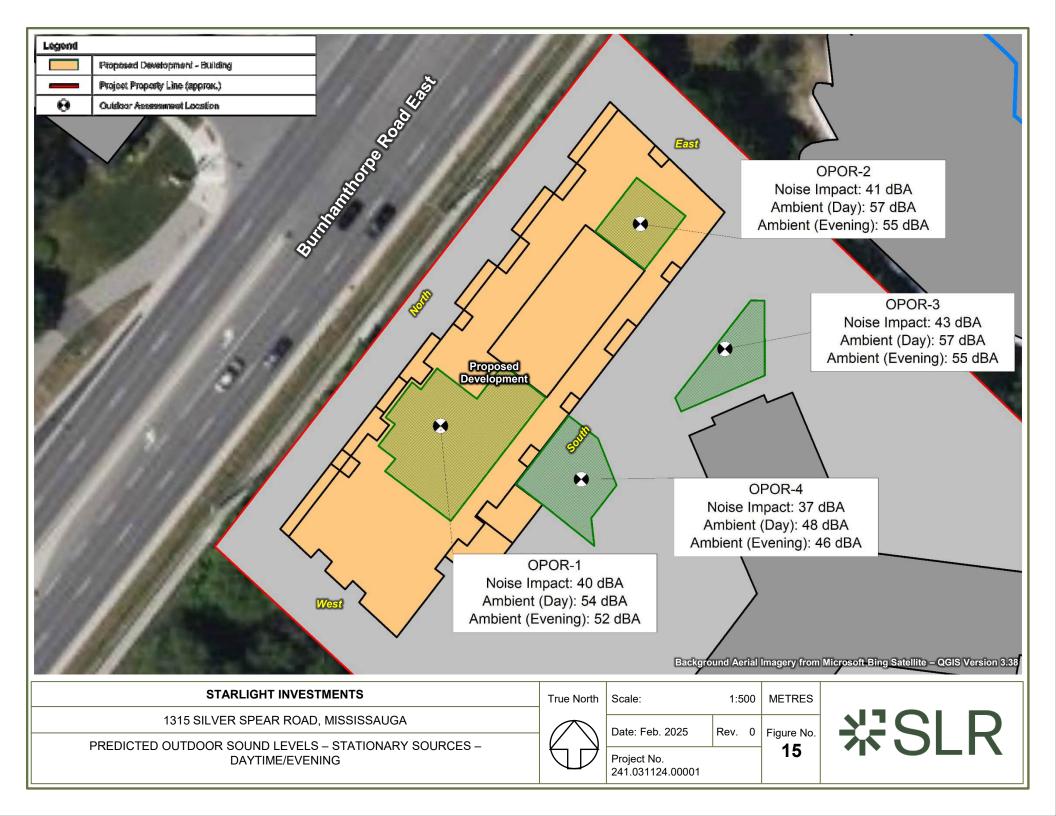


PREDICTED FAÇADE SOUND LEVELS EXCESSES - STATIONARY SOURCES - NIGHT-TIME



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Date: Feb. 2025	Rev.	0	Figure No.
Project No. 241.031124.00001			14







## **Appendix A** Development Drawings

#### **Environmental Noise Assessment**

1315 Silver Spear Road, Mississauga

**Starlight Investments** 

SLR Project No.: 241.031124.00001

February 19, 2025



24.3m CURB & SIDEWALK

MARCA EX. CURB

REGISTERED PLAN 736 EXIST CHAIN

(CITX \$1D. 2230.010)

Westerly Corner FENCE TØ BEATT 1

Blocks A, Registered Plan 178048 144.50 REMOVED

0.92m F

TREATMENT ACROSS DRIVEWAY (AS PER CITY STD. 2240,031)

PROPOSED RETAINING

PROPOSED CURB & GUTTER

(CITY STD.2230.010)

EXISTING PARKING SPACES

EXISTING PARKING SPACES

1.00' RESERVI REGISTERED PLAN 736 G) Estabilished by By—Law 5673 as in Instrument N° VS3279 143.91

EXISTING CURB

WALL 19.26m

WIDENING 143.6

1.00' RESERVE

REGISTERED PLAN 736

BE FLUSH WITH THE MUNICIPAL SIDEWALK AND ROAD CURB.

11. PARKING SPACES RESERVED FOR PEOPLE WITH DISABILITIES MUST BE IDENTIFIED BY A
SIGN INSTALLED AT THE APPLICANT'S EXPENSE, IN ACCORDANCE WITH THE DESIGN
SPECIFICATIONS OF SCHEDULE 2 & 3 OF BY-LAW 10-2016.

12. GRADES WILL BE MET WITHIN A 33% MAXIMUM SLOPE AT THE PROPERTY LINES AND 12. GRADES WILL BE MET WITHIN A 33% MAXIMUM SLOPE AT THE PROPERTY LINES AND WITHIN THE SITE.

13. ALL DAMAGED AREAS ARE TO BE REINSTATED WITH TOPSOIL AND SOD PRIOR TO THE RELEASE OF SECURITIES.

14. SIGNAGE SHOWN ON THE DEVELOPMENT PLANS IS FOR INFORMATION PURPOSES ONLY. ALL SIGNS WILL BE SUBJECT TO THE PROVISIONS OF SIGN BY—LAWO054—2002, AS AMENDED, AND A SEPARATE SIGN APPLICATION WILL BE REQUIRED THROUGH THE BUILDING DIVISION.

15. ALL SIGNAGE IS SUBJECT TO FURTHER REVIEW AND APPROVALS BY THE PLANNING AND BUILDING DEPARTMENT WHICH MAY INCLUDE A STAFF REVIEW THROUGH THE SIGN PERMIT 16. THE APPLICANT WILL BE RESPONSIBLE FOR ENSURING THAT ALL PLANS CONFORM TO TRANSPORT CANADA'S RESTRICTION.
17. THE APPLICANT IS RESPONSIBLE FOR ENSURING THAT TREE PROTECTION HOARDING IS MAINTAINED THROUGHOUT ALL PHASE OF DEMOLITION AND CONSTRUCTION, IN THE LOCATION AND CONDITION AS APPROVED BY THE PLANNING AND BUILDING DEPARTMENT. NO MATERIALS (BUILDING MATERIALS, SOIL, ETC.) MAY BE STOCKPILED WITHIN THE AREA OF HOARDING. FAILURE TO MAINTAIN THE HOARDING AS ORIGINALLY APPROVED FOR THE STORAGE OF MATERIALS WITHIN THE HOARDING WILL BE THE CAUSE FOR THE TREE PRESERVATION 'LETTER OF CREDIT' TO BE HELD FOR TWO (2) YEARS FOLLOWING COMPLETION OF ALL SITE WORKS.

SIGNED BY PROPERTY OWNER ...... DATED:.....

18. PLEASE BE ADVISED THAT THE DETAILED GRADING FOR THIS APPLICATION WILL BE FINALIZED AND APPROVED BY THE DEVELOPMENT SECTION OF THE TRANSPORTATION AND WORKS DEPARTMENT AS A REQUIREMENT FOR THE ISSUANCE OF A BUILDING PERMIT.

19. THE APPLICANT SHALL BE RESPONSIBLE FOR THE COST OF AN UTILITY RELOCATIONS

NECESSITATED BY THE SITE PLAN.

20. THE STRUCTURAL DESIGN OF AN RETAINING WALL OVER 0.6m IN HEIGHT OR AN RETAINING WALL LOCATED ON A PROPERTY LINE IS TO BE SHOWN ON THE SITE GRADING PLAN FOR THIS PROJECT AND TO BE APPROVED BY THE CONSULTING ENGINEER FOR THE PROJECT.

21. SITE GRADING PLAN AND SITE SERVICING PLAN ARE TO BE ASSOCIATED WITH THE SITE 22. I HEREBY CERTIFY THAT THIS DRAWING CONFORMS IN ALL RESPECTS TO THE SITE DEVELOPMENT PLANS AS APPROVED BY THE CITY OF MISSISSAUGA UNDER FILE NUMBER

23. ALL PROPOSED CURBING WITHIN THE MUNICIPAL BOULEVARD AREA FOR THE SITE IS TO SUIT AS FOLLOWS: a) FOR ALL SINGLE FAMILY RESIDENTIAL PROPERTIES INCLUDING ON STREET TOWNHOUSES, ALL CURBING IS TO STOP AT THE PROPERTY LIMIT OR THE BACK OF THE MUNICIPAL SIDEWALK, WHICHEVER IS APPLICABLE, OR b) FOR ALL OTHER PROPOSALS INCLUDING INDUSTRIAL, COMMERCIAL AND CONDOMINIUM DEVELOPMENTS, ALL ENTRANCES TO THE SITE ARE TO BE IN ACCORDANCE WITH O.P.S.D. 350.010.

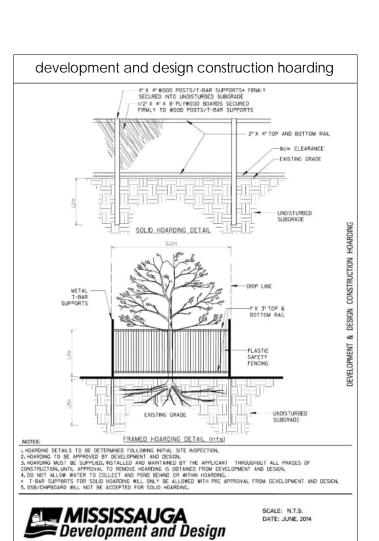
24. PRIOR TO ANY CONSTRUCTION TAKING PLACE, STRUCTURALLY CERTIFIED OVERHEAD HOARDING WITHIN THE RIGHT-OF-WAY AS SHOWN ON THE SITE PLAN (AS APPLICABLE). HOARDING WITHIN THE RIGHT-OF-WAT AS SHOWN ON THE JIE PLAN (AS AFFILIABLE).
HOARDING ADJACENT TO EXISTING PROPERTIES TO PROTECT FROM CONSTRUCTION ACTIMITY, AND
ALL REQUIRED HOARDING IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS MUST BE ERECTED AND MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.

25. IF THE FINAL COURSE OF ASPHALT PAVING IS DELAYED, INSTALL A TEMPORARY LIFT OF ASPHALT AT RAMPS OR CURB CUTS TO BARRIER-FREE ACCESS. 26. ANY FENCING ADJACENT TO MUNICIPAL LANDS IS TO BE LOCATED 15cm (6.0in.) INSIDE THE PROPERTY LINE.

27. WE AGREE TO IMPLEMENT THE APPROVED SITE AND LANDSCAPED PLANS WITHIN 18 27. WE AGREE TO IMPLEMENT THE APPROVED SHE AND CANDSCAPED PLANS WITH TO MONTHS AFTER THE EXECUTION OF THE SITE PLAN UNDERTAKING AND WILL RETAIN THE LANDSCAPE ARCHITECT TO MAKE PERIODIC INSPECTIONS, UPON COMPLETION OF THE WORKS WE WILL FORWARD TO THE CITY OF MISSISSAUGAA COPY OF THE COMPLETION CERTIFICATE FROM THE LANDSCAPE ARCHITECT AND THE APPLICABLE APPLICATION FEE THE LANDSCAPE ARCHITECT AND OR CONSULTING ENGINEER WILL ALSO PROVIDE CERTIFICATION TO INDICATE THAT THE BIOSWALE IN PARKING LOT, SWALE WITH OVERLAND FLOW AND RAINWATER HARVESTING SYSTEMS HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED SITE PLAN DRAWINGS. ANY REVISIONS TO THE SITE AND LANDSCAPE PLANS WILL BE SUBMITTED TO THE PLANNING AND BUILDING DEPARTMENT, CITY OF MISSISSAUGA FOR REVIEW AND APPROVAL. PRIOR TO THE COMMENCEMENT OF WORKS. WE HEREBY AUTHORIZE THE CITY. ITS AUTHORIZED AGENTS, SERVANTS OR EMPLOYEES TO ENTER UPON OUR LAND TO CARRY OUT INSPECTIONS FROM TIME TO TIME AND AGREE TO INDEMNIFY THE CITY, ITS AUTHORIZED AGENTS, SERVANTS OR EMPLOYEES TO ENTER UPON OUR LAND TO CARRY OUT INSPECTION FROM TIME TO TIME AND AGREE TO INDEMNIFY THE CITY, ITS AUTHORIZED AGENTS AND SAVE THEM HARMLESS FROM ANY AND ALL ACTIONS ARISING OUT OF THE EXCERSISE BY THE CITY, ITS AUTHORIZED AGENTS, SERVANTS OR EMPLOYEES OF THE RIGHTS HEREBY GIVEN THEM. WE UNDERTAKE TO

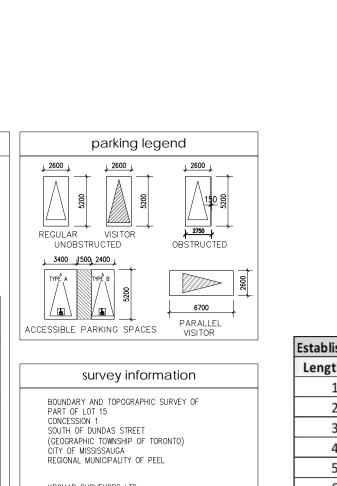
SIGNED BY PROPERTY OWNER ...... DATED:

NOTIFY THE CITY FORTHWITH OF ANY CHANGE OF OWNERSHIP OF THE SAID LANDS.



curb ramp at mid-block crossing

refer also to ontario provincial standards for roads and public works (opsd) accessible parking sign requirement Accessible Parking Signs shall be mounted on a level wall surface or mounted on 20 mm Red Reflective Circular 300 mm min. 3 15 mm Red Reflective Stroke At a height of 1200 mm (47 in.) from the ground/floor surface to the bottom edge of the sign; Vhite Reflective Background 4 White Reflective Symbol and If mounted on a post, the post shall be colour contrasted with the backgroun-environment: Blue Reflective Background For perpendicular parking centred on the parking space, and BY PERMIT For parallel parking located toward the end of the parking space, on the opposite side from the access aisle. ONLY\* Post Each Type 'A' Parking Space shall have two (2) 150 mm x 300 mm (6 inches x 11 1/4 Each Type 'B' Parking Space shall have a 150 mm x 300 mm (6 inches x 11 ½ inches) sign, on the same sign posttwall mount and located immediately below the sign described in sections 9 and 11, with the words 'Maximum Fine \$5,000.00", as illustrated in Schedule 'C' of Accessible Parking By-law 10-2016. 0.064 mm gauge aluminum sign blank Secure the sign face to a post or wall with two galvanized 12 mm hex, head bolts and nuts with flat washers on both sides. Black colour font (min. size 25 mm) - White Reflective Background International Symbol of Access -One in Each Accessible Parking Maximum Fine Van \$5000.00 Accessible mm Galvanized Standard Steel Pipe Post to be Cast In Place in 300 mm Diameter Concrete Footing



1137 CENTRE STREET,THORNHILL,ON, L4J3M6 PHONE: 905.738.0053 FAX: 905.738.9221

WWW.KRCMAR.CA

FILE NAME: 14-137 BT01

**Established Grade Calculation** Length no. | Begin Elev. | End Elev. Length (el. 1 +el. 2) x length /2 145.50 145.50 10.49 1526.08 145.50 145.50 10.49 1526.08 145.50 147.45 70.83 10375.41 147.45 147.60 10.51 1550.27 147.60 147.75 10.51 1551.84 147.75 145.50 71.23 10444.54 Total: 184.06 26974.21 26974.21 / 184.06 146.5503908

ORIGINAL ROAD ALLOWANCE BETWEEN CONCESSIONS 1 AND 2, NORTH OF DUNDAS STREET

MAIN

EXIT

FRIVATE

PATIO

PA

MECHANICAL PENTHOUSE

EXISTING 8 STOREY

nstrument N° VS1539

8 STOREY EXISTING

BRICK & METAL CLAD

APARTMENT BUILDING

TERRACE AT 5TH FLOOR

PROPOSED 14 STOREY RESIDENTIAL F.F.E 147.45

2ND FLOOR

ACCESS 10

28 SURFACE VISISITORS PARKING SPACES (INCLUDING 2 ACCESSIBLE P.S

EXISTING BUILDING

PROPOSED 1.5m SIDEWALK

(CITY STD.2230.010)

₩3RD FLOOR

ACCESS TO

StumEOADING

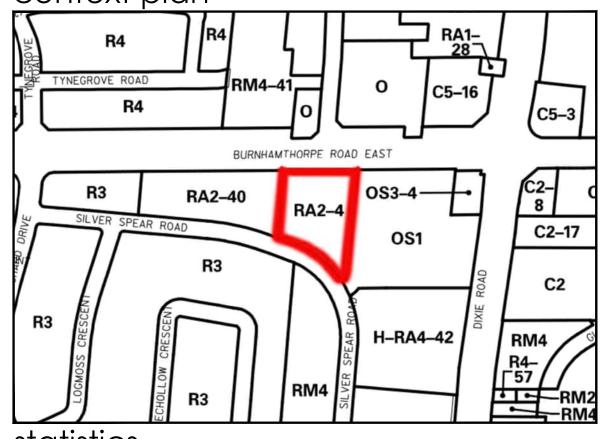
EXTENT OF U/G PARKING PROPOSED CURB & GU 🔗 🌶

LANDSCAPED

OAMENITY 1

EXISTING CONCRETE SIDEWAND SWALE @ 3.20% 4 147.09 147.10 86 REMOVED 147





- WIDENING BY BY-LAW N° 7670

-Established by By-Law 0200-2010 as in Instrument N° PR1856032

0.92m ROAD WIDENING

SWALE @ 2.00%

Note: Construction access will

adjacent City owned land to this

EGISTERED PLAN 750

A=7.84 p2 & meas C=7.76 p4 & meas

BLOCK I

REGISTERED PLAN 750

not be permitted from the

EXIST. CHAIN LINK MATCH EX. SIDEWALK.

FENCE TO BE-

PROPOSED CONCRETE SIDEWALK 50

LANDSCAPED AMENITY

(1,072.3m2 / 11541.8ft2)

EXISTING BBQ PATIO

STATISTICS							January	31, 2025	
1. ZONING				RA2-4					
2. GROSS SITE AREA				8,404.51 m2	90,465.31	ft2	2.08	ACRES	
2. NET SITE AREA (DEVE	LOPABLE AREA)			8,325.02 m2	89,609.68	ft2	2.06	ACRES	
3. SETBACKS				PERMITTED:		PROPOSED	):		
				FRONT:	9.50 m		FRONT (PROPOSED):	4.50 m	
				REAR (0 - 13m):	7.50 m	RE	AR (FROM EXISTING		
				REAR (13 - 20m):	10.00 m		BUILDING):	15.00 m	
				REAR (20 - 26m):	12.50 m				
				SIDE:	7.50 m		SIDE:	7.50 m	
4. GROSS FLOOR AREA				PERMITTED:	12,487.53	m2		134,414.52 ft2	
				EXISTING:	9,056.00	m2		97,477.88 ft2	
				PROPOSED:	17,158.90	m2		184,696.68 ft2	
				TOTAL:	26,214.90	m2		282,174.56 ft2	
5. GROUND FLOOR AREA	A			EXISTING:	1,134.00	m2		12,206.26 ft2	
				PROPOSED:	1,297.50	m2		13,966.16 ft2	
				TOTAL:	2,431.50	m2		26,172.42 ft2	
6. BUILDING DENSITY				PERMITTED:		1.50	FSI (GFA / SA)		
				EXISTING:		1.08	FSI (GFA / SA)		
				PROPOSED:		2.06	FSI (GFA / SA)		
				TOTAL:		3.15	FSI (GFA / SA)		
7. BUILDING COVERAGE				PERMITTED:			N/A		
				EXISTING:			13.6%		
				PROPOSED:			18.5%		
				TOTAL:			29.2%		
8. LANDSCAPED AREA				REQUIRED:	3,330.01	m2	40	0.0%	
				EXISTING:	4,639.20	m2	55	5.2%	
				PROPOSED:	5,893.52	m2	70	0.8%	
					2,737.32 3,156.20		SOFT HARD	46.4% 53.6%	
9. FLOOR AREA :					0,200120			33.070	
	TOTAL	L. AREA (TFA)		GROSS FLOOR	AREA (GFA)				
EXISTING TOTAL	9,056.00 m2	97,477.88	ft2	9,056.00 <b>m2</b>	97,477.88 <b>ft2</b>				
PROPOSED APARTMENTS	TOTAL FLO	OR AREA (TFA)**		GROSS FLOOR	ARFA (GFA)*		LEASEABLE FLOOR AF	RFA (ISA)	
P4	2,742.20 m2	29,516.77	ft2	2,742.20 m2	29,516.77 ft2	0.	00 m2	0.00 ft2	
P3	2,742.20 m2	29,516.77		0.00 m2	0.00 ft2		00 m2	0.00 ft2	
P2	2,742.20 m2	29,516.77	ft2	0.00 m2	0.00 ft2		00 m2	0.00 ft2	
P1	2,742.20 m2	29,516.77	ft2	0.00 m2	0.00 ft2	0.	00 m2	0.00 ft2	

P3		2,742.20 m2	29,516.77	7 ft2	0.00	m2	0.00	ft2	0.00	m2	0.00 ft
P2		2,742.20 m2	29,516.77	ft2	0.00 i	m2	0.00	ft2	0.00	m2	0.00 ft
P1		2,742.20 m2	29,516.77	ft2	0.00 i	m2	0.00	ft2	0.00	m2	0.00 ft
GND		1,297.50 m2	13,966.16	ft2	747.60 ו	m2	8,047.09	ft2	506.20	m2	5,448.69 ft
2ND		1,088.00 m2	11,711.12	ft2	1,048.70 i	m2	11,288.10	ft2	975.60	m2	10,501.26 ft
3RD - 4TH	( 2 FLOORS)	2,800.60 m2	30,145.38	ft2	2,697.60 i	m2	29,036.70	ft2	2,526.40	m2	27,193.92 ft
5TH - 14TH	(10 FLOORS)	13,059.00 m2	140,565.77	ft2	12,665.00 1	m2	136,324.79	ft2	11,818.00	m2	127,207.77 ft
MECH. PH		196.60 m2	2,116.18	ft2	0.00	m2	0.00	ft2	0.00	m2	0.00 ft
PROPOSED T	TOTAL	18,441.70 m2	198,504.61	ft2	17,158.90	m2	184,696.68	ft2	15,826.20	m2	170,351.63 ft
GRAND TO	ΤΔΙ	27,497.70 m2	295,982.49	ft2	26,214.90	m2	282,174.56	ft2			
10. UNIT SL		27,137170 1112	255,502115		20,221130		202,17 1130				
		Studio	1B		1B+D		2B		BB		TOTAL
EXISTING AP	ARTMENT	0	9		0		77		7		93
PROPOSED A	APARTMENT	Studio/B	1B		1B+D		2B		ВВ		TOTAL
1ST		0	4		0		1		2		7
2ND		1	10		0		4		1		16
3RD - 4TH	( 2 FLOORS)	2	26		0		10		4		42
5TH - 14TH	(10 FLOORS)	30	70		0		80	:	LO		190
APARTMEN1	ΓΤΟΤΔΙ	33	110		0		95	:	.7		255
AI AIMIVIEIN	ITOTAL	12.9%	43.1%		0.0%	3	7.3%	6.	7%		100.0%
		33	119		0		172		24		348
GRAND TO	TAL	9.5%	34.2%		0.0%	4	9.4%	6.	9%		100.0%
11. ACCESS	IBLE UNITS (I	PROPOSED APARTI	MENT)		·					•	
		Studio	1B		1B+D		2B	;	ВВ		TOTAL
PROPOSED	TOTAL	4	16		0		14		2		36
		0.0%	14.5%		0.0%	1	4.7%	11	.8%		14.1%
12. HEIGHT		PERMITTED:					PROPOSED:		Е	STABLISHED	GRADE = 146.55
		8 STOREYS (26.0m)					14 STOREYS				
			6 31 UKEYS (26	i.Um)					14 STO	REYS (46.08n	n)
13.EXISTING	G PARKING										

	a ctoreve	(20.0				14 STOREYS				
	8 STOREYS (26.0m)					14 STOREYS (46.08m)				
13.EXISTING PARKING										
RATES	9 VISITOR SPACES	/	93 UNITS	=	0.10					
	98 RESIDENTIAL SPACES	/	93 UNITS	=	1.05					
14a. REQUIRED										
PARKING RATES FOR										
THE EXISTING BLDG	18 VISITOR SPACES	/	93 UNITS	=	0.20					
	OA RECIDENTIAL CRACEC	,	O2 LINUTE		0.00					
	84 RESIDENTIAL SPACES	/	93 UNITS	=	0.90					
	102 TOTAL REQUIRED EX	KISTIN	NG APARTME	NT PARK	ING	=				
14b. REQUIRED										
PARKING RATES FOR	51 VISITOR SPACES	/	255 UNITS	=	0.20					
THE PROPOSED BLDG										
	230 RESIDENTIAL SPACES	,	OFF LINUTE		0.00					
	230 RESIDENTIAL SPACES	/	255 UNITS	=	0.90					
	281 TOTAL REQUIRED PR	ROPO	SED APARTM	ENT PAR	KING	_				
14c. TOTAL REQUIRED										
PARKING RATES	69 VISITOR SPACES	/	348 UNITS	=	0.20					
(EXISTING +										
PROPOSED)	314 RESIDENTIAL SPACES	/	348 UNITS	=	0.90					
						_				
	383 TOTAL REQUIRED PR	ROPO	SED APARTM	ENT PAR	KING					
15. PARKING SUPPLY &							—			
	SITOR									
VIS	SII ON									

/ &	k		
	VISITOR		
	SURFACE (i	ncludes 4 EV parking spaces)	28
	P1		11
	(includes 1 Type A	and 1 Type B Accessible p. spaces) VISITOR TOTAL	39
		0.11	sp/unit
	RESIDENTIAL		
	P4		82
	P3		85
	P2		85
	P1 (i	ncludes 32 EV parking spaces)	63
		RESIDENTIAL TOTAL	315
		0.91	sp/unit
	GRAND TOTAL		354
	REQUIRED PRO	POSED:	
	VISITOR	2 (4% OF THE VISITOR PARKING SPACES)	

CCESSIBLE												
ARKING RATES						VISITOR	2	(4% O	F THE VISITO	OR PARKIN	IG SPACES)	
	REQUIRED GRAN	D TOTAL								(1 TYPE A	( - 1 TYPE B)	2
7. REQUIRED						REQUIRED PRO	POSED:					
SIKE PARKING RATES						CLASS B	0.05	PER UNIT (	255	)	=	13
						CLASS A	0.6	PER UNIT (	255	)	=	153
									REQUIRE	PROPO	SED TOTAL	166
8. PROPOSED BIKE						SURFACE	CLASS	B BIKE PARKING	G SPACES			13
PACES						P3	CLASS	A BIKE PARKIN	G SPACES			68
						P2	CLASS	A BIKE PARKIN	G SPACES			68
						P1	CLASS	A BIKE PARKIN	G SPACES			29
	GRAND TOTAL											178
9. AMENITY	REQUIRED:					PROPOSED:						
	5.6 m2	PER UNIT (	348 )	=	1,948.8 m2	INDOOR AME	NITY SE	ACE				
	10% of	the Site Area		=	832.50 m2		EXISTIN	IG BUILDING G	YM		40.8	m2
	MINIMUM AMENIT	Y IN ONE CON	TIGUOUS	SPACE			INDOO	R AMENITY 1			113.2	m2
					974.4 m2		INDOO	R AMENITY 2			95.0	m2
	1					1						

6. REQUIRED

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13. issued for SPA 12. issued for rezoning 11. issued for SPA 10. issued for rezoning 9. issued for client review 8. issued for client review

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10.06.16

04.04.16

06.25.15 +

6. issued for client review 5. issued for client review 4. pre-submission meeting 3. issued for client review 2. issued for client review

7. issued for rezoning

1. pre-submission meeting revisions:

#### architectural team:

mark zwicker melina m. andretto ernesto sosa

urban strategies inc.

structural:

landscape:

103.2 m2

14.4 m2

115.1 m2

EXISTING OUTDOOR BBQ PATIO OUTDOOR AMENITY PATIO

LANDSCAPED AMENITY SPACE 1

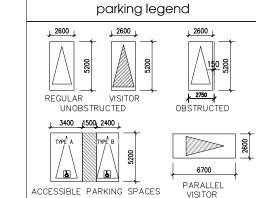
mechanical:

MBTW Group site services: urbantech consulting

project: 1315 Silver Spear Road mississauga, ontario

## site plan, statistics & general notes

feb. 05, 2025 1:300 14-40 mma - es



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architectural team:

melina m. andretto ernesto sosa

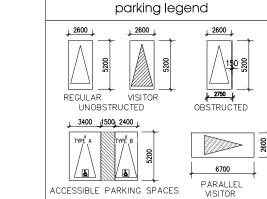
<sub>planning:</sub> urban strategies inc.

site services: urbantech consulting

1315 Silver Spear Road mississauga, ontario

p4 parking floor plan

feb. 05, 2025 mma - es



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13. issued for SPA
12. issued for rezoning
11. issued for SPA
10. issued for rezoning
9. issued for client review
8. issued for client review
7. issued for rezoning
6. issued for client review
5. issued for client review
4. pre-submission meeting
3. issued for client review
2. issued for client review

architectural team :

pre-submission meeting

mark zwicker melina m. andretto ernesto sosa

revisions:

<sub>planning:</sub> urban strategies inc.

structural:

electrical:

landscape: MBTW Group

mechanical:

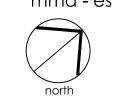
site services: urbantech consulting

project:

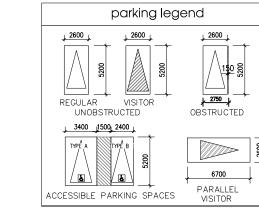
1315 Silver Spear Road mississauga, ontario

## p2 & p3 parking floor plans

feb. 05, 2025 1:150 14-40 mma - es



A202



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es:

11. issued for SPA
10. issued for rezoning
9. issued for client review
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7. issued for rezoning
6. issued for client review
5. issued for client review
4. pre-submission meeting
3. issued for client review
2. issued for client review
1. pre-submission meeting

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13. issued for SPA

12. issued for rezoning

architectural team :

mark zwicker melina m. andretto ernesto sosa

revisions:

planning: urban strategies inc.

structural:

electrical:

mechanical:

landscape: MBTW Group

site services: urbantech consulting

project:

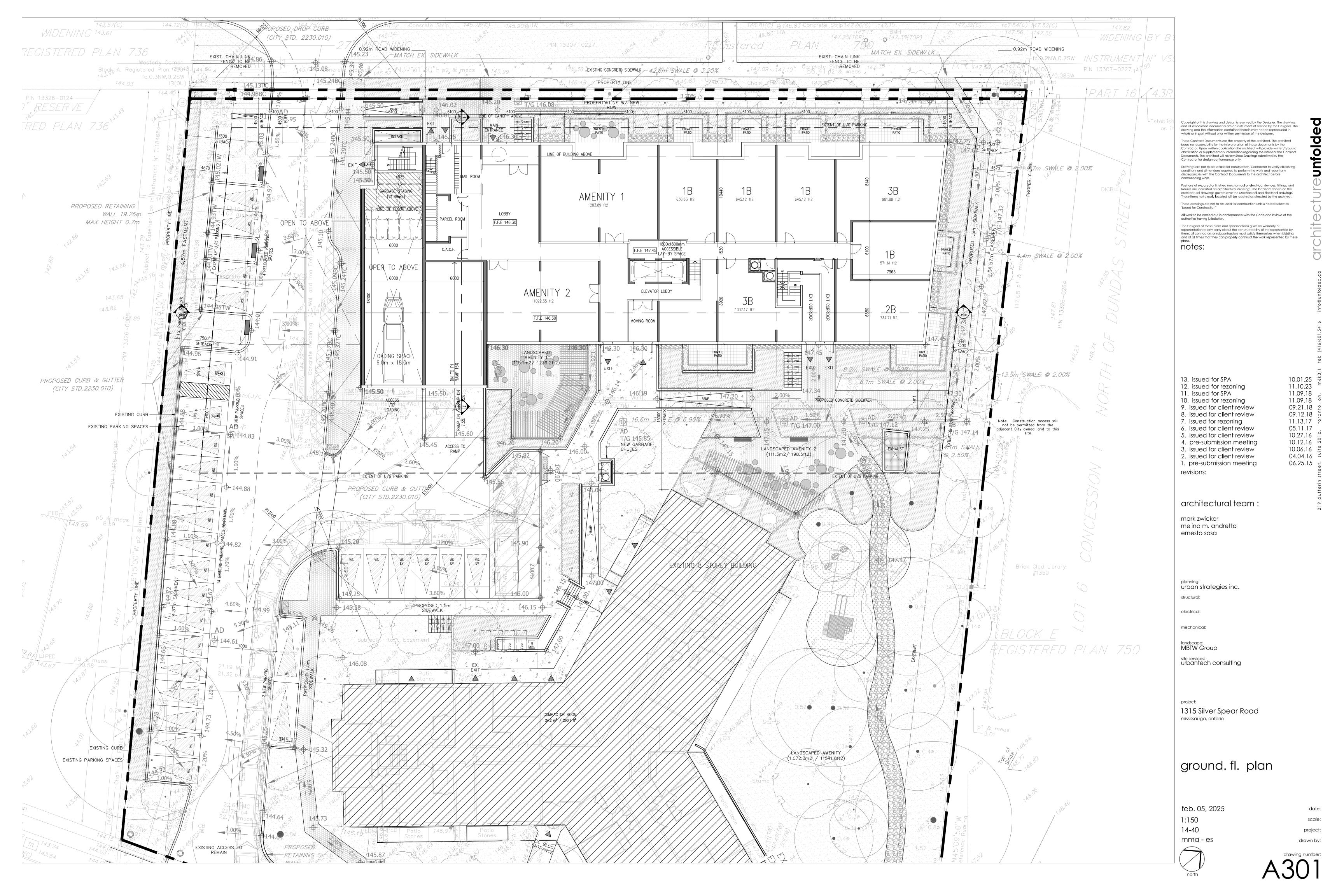
1315 Silver Spear Road mississauga, ontario

p1 parking floor plan

feb. 05, 2025 1:150 14-40 mma - es

date: scale: project: drawn by:

A203



EXISTING 8 STOREY BUILDING

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11. issued for SPA
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9. issued for client review
8. issued for client review

issued for rezoning
 issued for client review
 issued for client review
 pre-submission meeting
 issued for client review
 issued for client review

revisions:

architectural team :

pre-submission meeting

mark zwicker melina m. andretto ernesto sosa

planning: urban strategies inc.

structural:

mechanical:

electrical:

landscape: MBTW Group site services: urbantech consulting

project:

1315 Silver Spear Road mississauga, ontario

2nd fl. plan

feb. 05, 2025 1:100 14-40 mma - es date: scale: project: drawn by:

A302

planning: Urban strategies inc. structural:

electrical:

mechanical:

landscape: MBTW Group site services: urbantech consulting

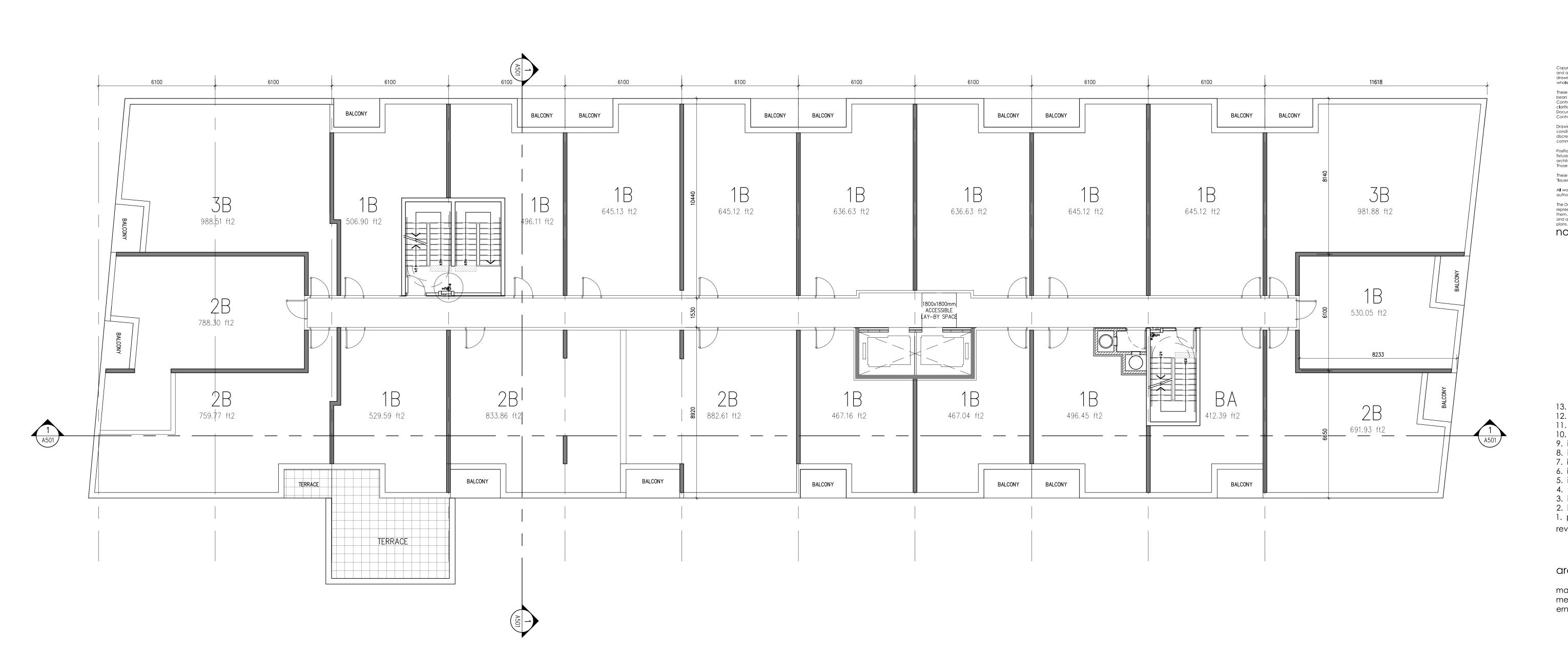
project:

1315 Silver Spear Road
mississauga, ontario

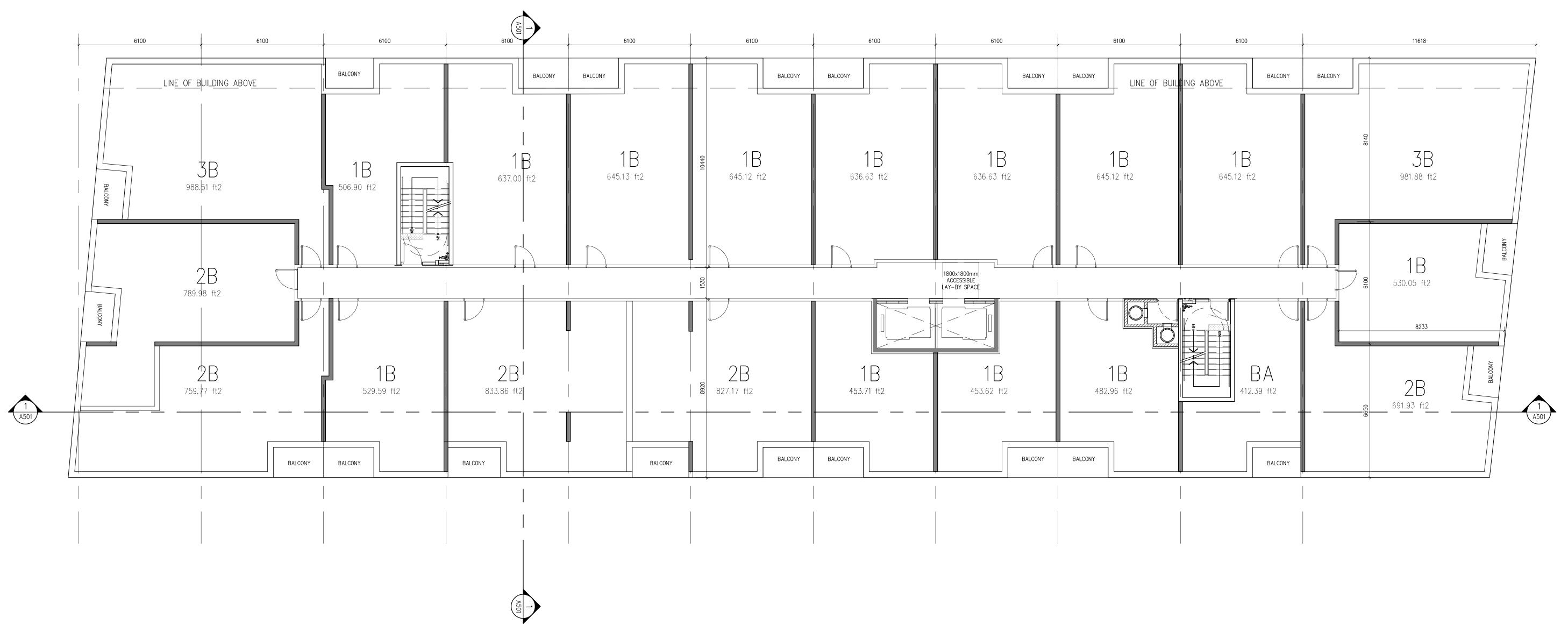
3rd fl. plan

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site services: urbantech consulting

1315 Silver Spear Road mississauga, ontario

4th fl. plan

feb. 05, 2025 1:100 14-40 mma - es

EXISTING 8 STOREY BUILDING

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5. issued for client review4. pre-submission meeting3. issued for client review2. issued for client review1. pre-submission meeting revisions:

architectural team:

mark zwicker melina m. andretto ernesto sosa

planning: urban strategies inc. structural:

electrical:

mechanical:

landscape:
MBTW Group
site services:
urbantech consulting

project: 1315 Silver Spear Road

mississauga, ontario

5th fl. plan

feb. 05, 2025 1:100 14-40 mma - es date:
scale:
project:
drawn by:
drawing number:

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04.04.16 <sup>3</sup> 06.25.15 <sup>1</sup>

09.21.18 09.12.18 09.12.18



electrical:

mechanical:

landscape: MBTW Group site services: urbantech consulting

1315 Silver Spear Road mississauga, ontario

6th - 14th fl. plan

feb. 05, 2025 1:100 14-40 mma - es

10.01.25

11.09.18

11.09.18 09.21.18 ♀

09.12.18

11.13.17

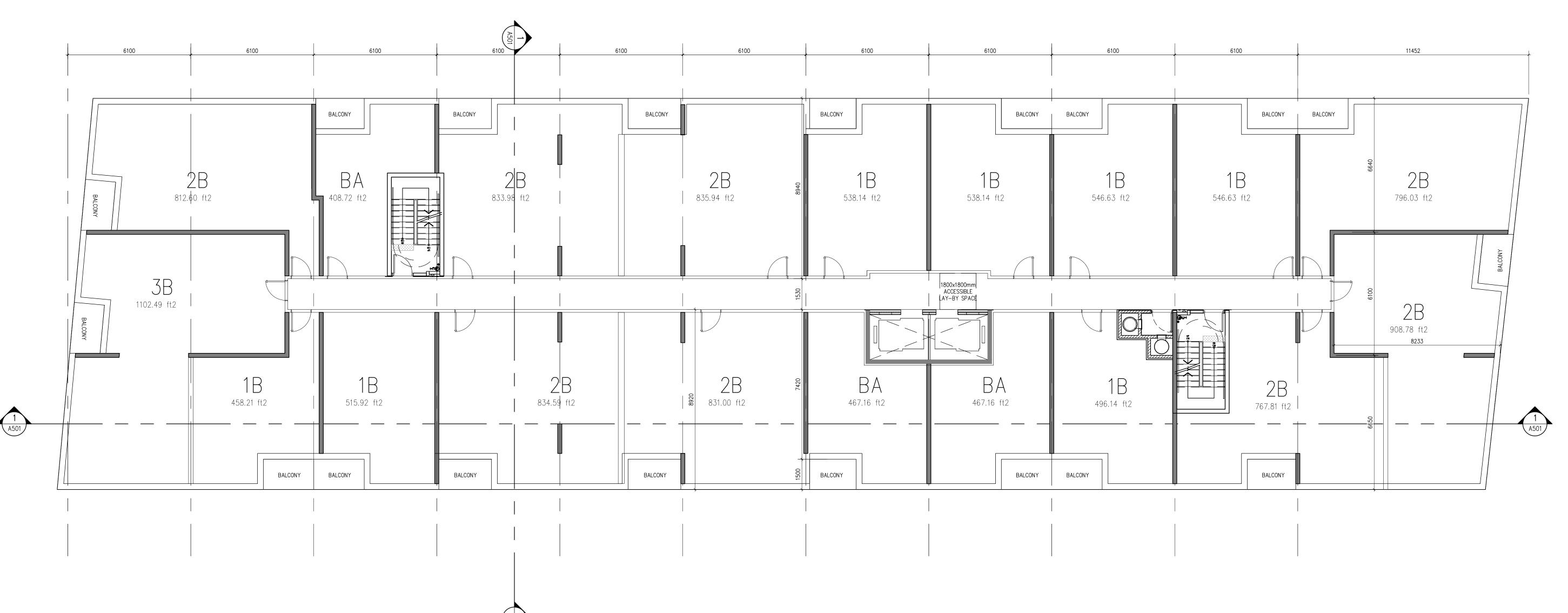
05.11.17

 $10.27.16 \stackrel{\circ}{=}$ 

10.12.16 ≈

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04.04.16 06.25.15









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Drawings are not to be scaled for construction. Contractor to verify all existing conditions and dimensions required to perform the work and report any discrepancies with the Contract Documents to the architect before

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whole or in part without prior written permission of the designer.

Contractor for design conformance only.

notes:

13. issued for SPA

11. issued for SPA

12. issued for rezoning

10. issued for rezoning 9. issued for client review

7. issued for rezoning

8. issued for client review

6. issued for client review

5. issued for client review

3. issued for client review 2. issued for client review

4. pre-submission meeting

pre-submission meeting

revisions:

planning: urban strategies inc. structural:

mechanical:

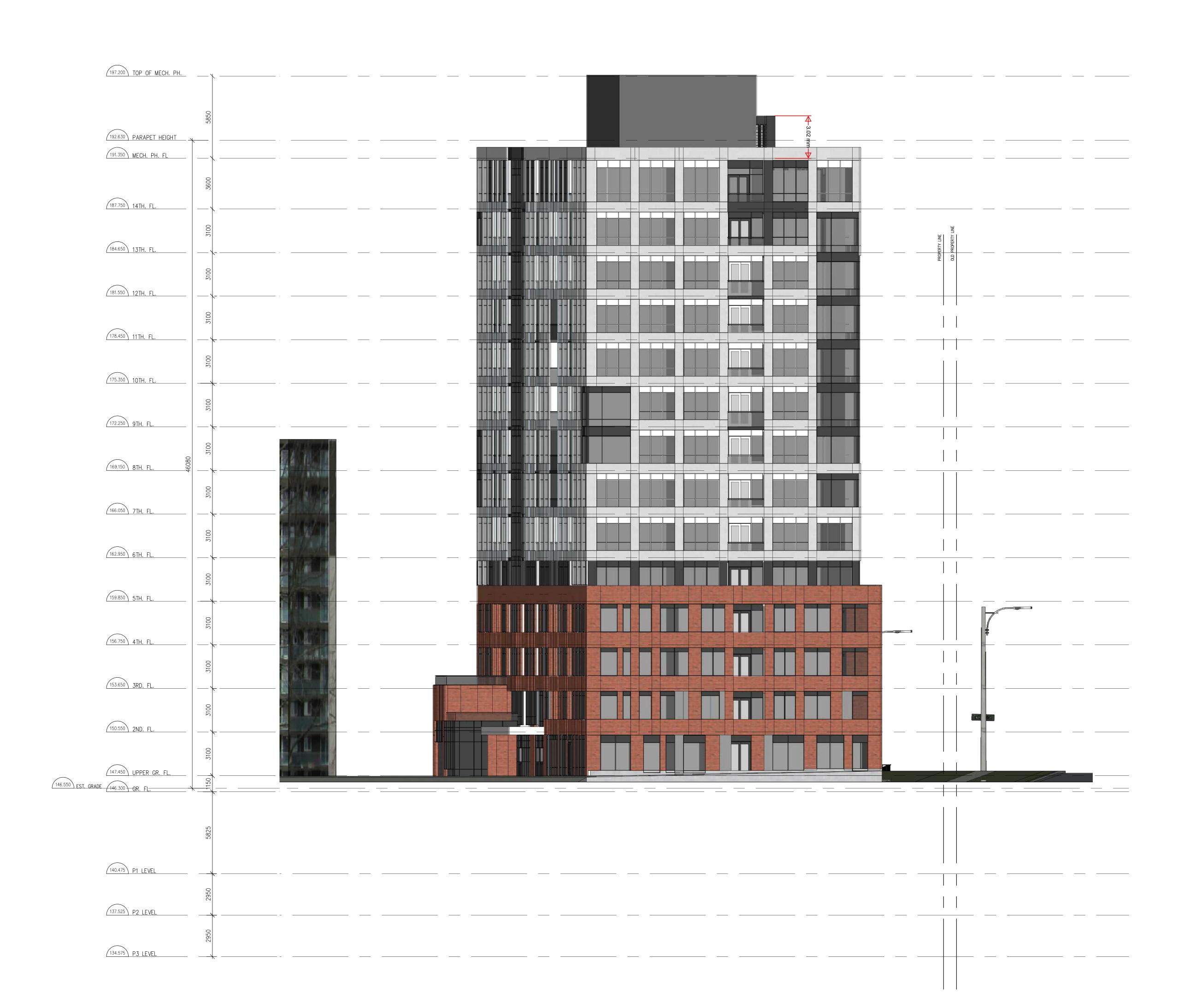
landscape: MBTW Group

site services: urbantech consulting

1315 Silver Spear Road mississauga, ontario

## east elevation

feb. 05, 2025 1:125 14-40 mma - es





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Drawings are not to be scaled for construction. Contractor to verify all existing conditions and dimensions required to perform the work and report any discrepancies with the Contract Documents to the architect before

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These drawings are not to be used for construction unless noted below as "Issued for Construction"

All work to be carried out in conformance with the Code and bylaws of the authorities having jurisdiction.

The Designer of these plans and specifications gives no warranty or representation to any party about the constructability of the represented by them. all contractors or subcontractors must satisfy themselves when bidding and at all times that they can properly construct the work represented by these notes:

12. issued for rezoning 11. issued for SPA 10. issued for rezoning

13. issued for SPA

9. issued for client review 8. issued for client review 7. issued for rezoning 6. issued for client review

5. issued for client review 4. pre-submission meeting 3. issued for client review 2. issued for client review

1. pre-submission meeting

revisions:

### architectural team:

mark zwicker melina m. andretto ernesto sosa

planning: urban strategies inc.

structural:

landscape: MBTW Group

mechanical:

site services: urbantech consulting

project: 1315 Silver Spear Road mississauga, ontario

## west elevation

feb. 05, 2025 1:125 14-40 mma - es



Drawings are not to be scaled for construction. Contractor to verify all existing conditions and dimensions required to perform the work and report any discrepancies with the Contract Documents to the architect before commencing work.

Positions of exposed or finished mechanical or electrical devices, fittings, and fixtures are indicated on architectural drawings. The locations shown on the architectural drawings govern over the Mechanical and Electrical drawings. Those items not clearly located will be located as directed by the architect.

These drawings are not to be used for construction unless noted below as "Issued for Construction"

All work to be carried out in conformance with the Code and bylaws of the authorities having jurisdiction.

13. issued for SPA 12. issued for rezoning 11. issued for SPA

10. issued for rezoning

9. issued for client review

8. issued for client review issued for rezoning 6. issued for client review

5. issued for client review

2. issued for client review

revisions:

4. pre-submission meeting3. issued for client review

pre-submission meeting

planning: urban strategies inc. structural:

electrical:

mechanical:

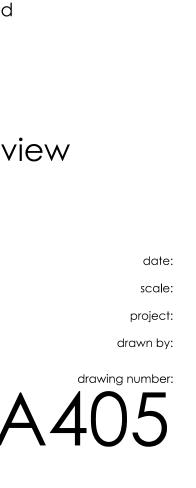
landscape: MBTW Group

site services: urbantech consulting

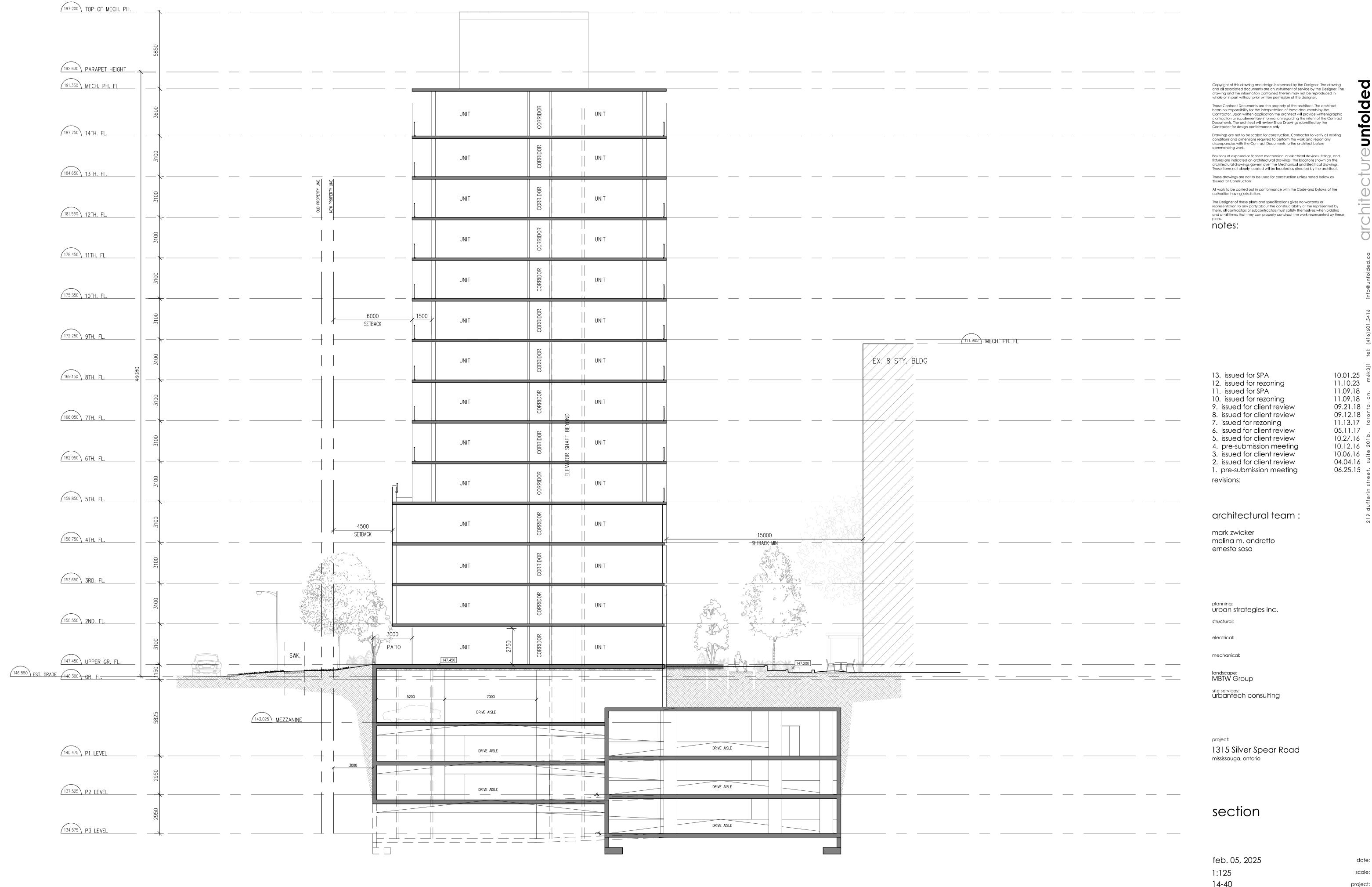
1315 Silver Spear Road mississauga, ontario

## perspective view south-west

feb. 05, 2025 1:125 14-40 mma - es

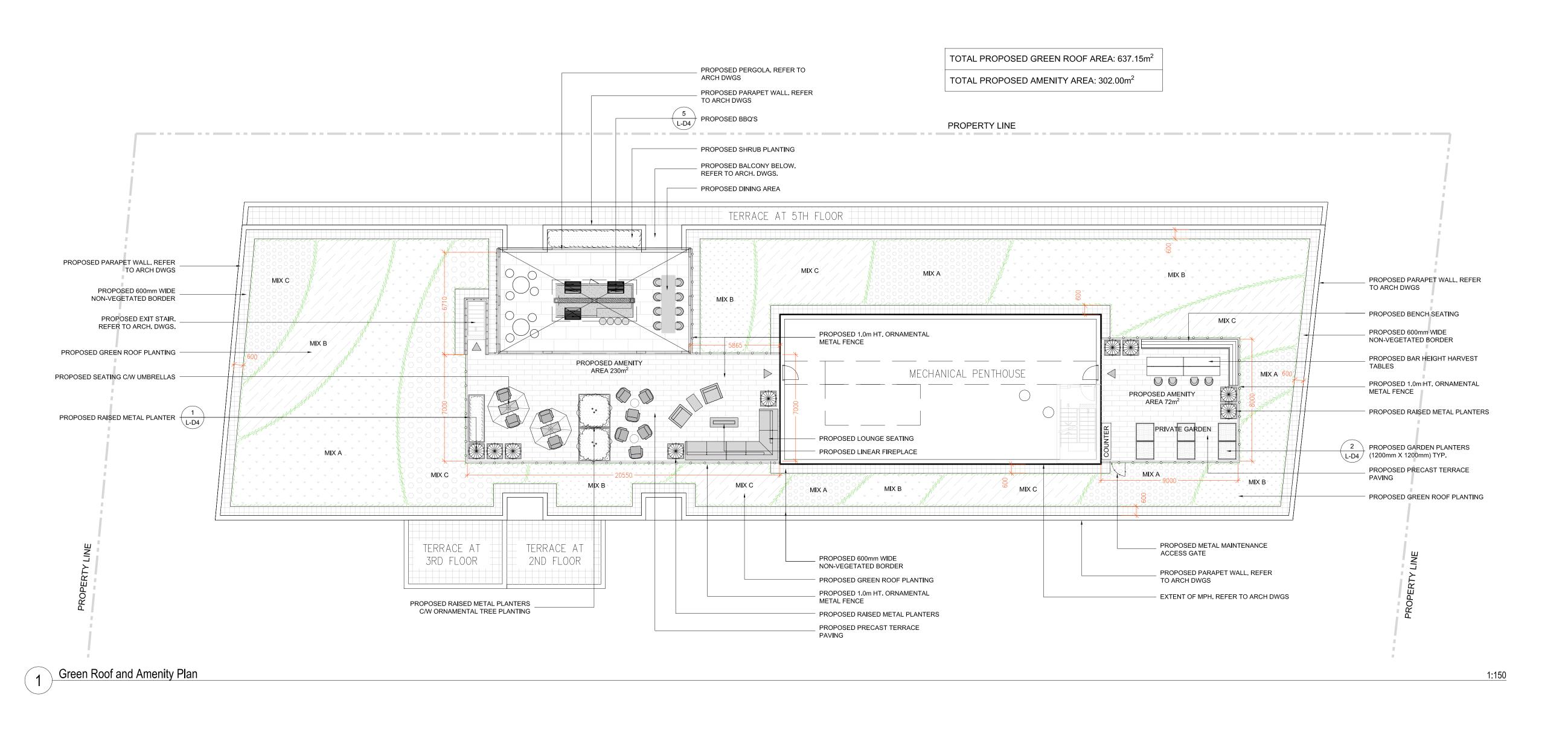


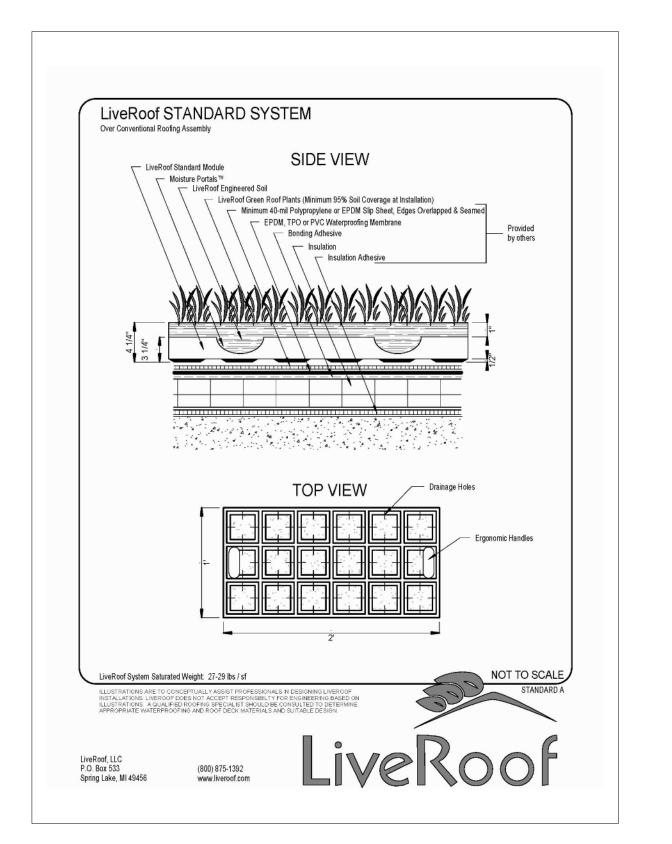


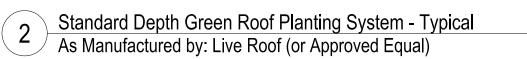


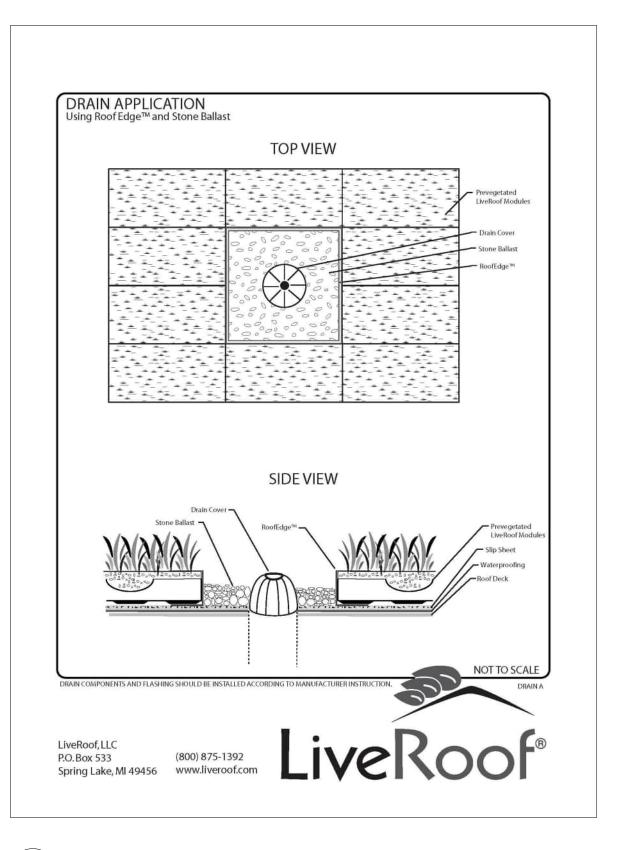
14-40 mma - es

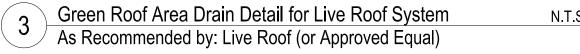


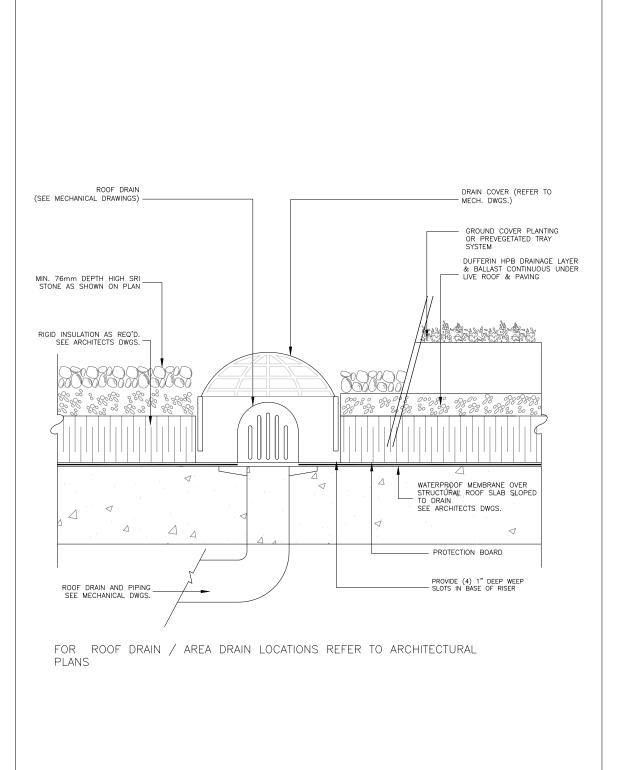


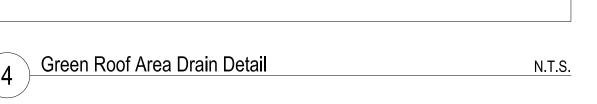


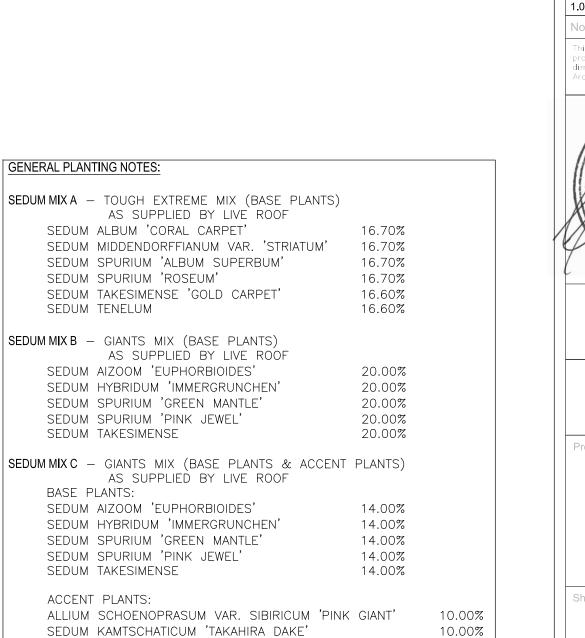






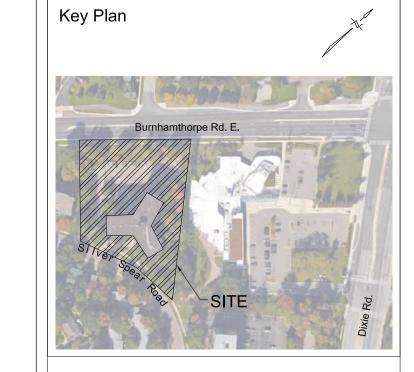




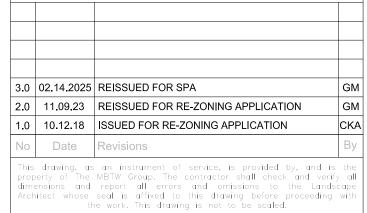


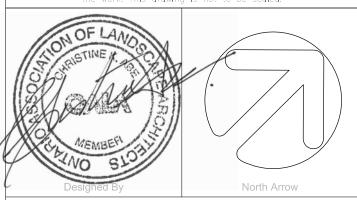
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SEDUM SPURIUM 'CARL'



Legend







1315 Silver Spear Road
Starlight Investments
City of Mississauga

Green Roof and Amenity Plan

Drawi	Scale:	Drawn:	Designed:		
	As Noted	DI	GM		
	Job No.:	Date of Drawing:			
	SIS001	October 2018			



## Appendix B Traffic Data and Calculations

#### **Environmental Noise Assessment**

1315 Silver Spear Road, Mississauga

**Starlight Investments** 

SLR Project No.: 241.031124.00001

February 19, 2025





Date: September 7, 2023

From: Sabah Ersum, SLR Consulting (Canada) Ltd

Re: Traffic Data Request – Dixie Road (280 m North of Bloor Street)

#### Sabah,

As per your request, we are providing the following 2019 traffic data:

	Existing	Ultimate			
24 Hour Traffic Volume	35,158	48,600			
# of Lanes	6	6			
Day/Night Split	90/10	90/10			
Day Trucks (% of Total Volume)	1.35% Medium 6.89% Heavy	1.35% Medium 6.89% Heavy			
Night Trucks (% of Total Volume)	2.00% Medium 4.82% Heavy	2.00% Medium 4.82% Heavy			
Right-of-Way Width	45 meters				
Posted Speed Limit	60 km/h				

#### Please note:

- The current volume is not the Annual Average Daily Traffic, but the averaged raw volumes over three data collection days. If you need the Annual Average Traffic Volume, please visit the Peel Open Data website below: http://opendata.peelregion.ca/data-categories/transportation/traffic-countstations.aspx
- 2. The ultimate volume is the planned volume during a level of service 'D' where a 2 second vehicle headway and a volume to capacity ratio of 0.9 is assumed. Traffic signals and hourly variations in traffic are also incorporated into the ultimate volume.

If you require further assistance, please contact at transportationplanningdata@peelregion.ca

Thank you,

Ucchas Saha, MASc Transportation Planner, Transportation Planning Transportation Division, Public Works Region of Peel

Date: 08-Sep-23 NOISE REPORT FOR PROPOSED DEVELOPMEN					
REQUESTED BY:					
Name: Sabah Ersum	Location: 1. Burnhamthorpe F	Rd E (1315 Silver Spear Rd.)	第21 计转换中间移列数据 多国的指摘 被对于计划方面设置		
Company: SLR Consulting					
PREPARED BY:					
Name Naveda Dukhan C.E.T					
Tel#: 905-615-3200 ext. 8948					
		oor (w) w.s.n. on sooneep persone and some arrival as not so record	GOMES PROGRAMMENT FOR A STANCE OF SWIFT SOURCE OF STREET STANCE OF SWIFT SOURCE OF SWIFT SOURCE OF SWIFT SOURCE OF SWIFT SWIFT SOURCE OF SWIFT S		
MISSISSAUGA	ID# 601				
	Control Designer Apple 1 (1991) 2000 200-1000 Co.	E TRAFFIC DATA			
Specific		Street Names			
F-117.	1. Burnhamthorpe Rd E		9		
AADT:	35500				
# of Lanes:	6 Lanes	1	100 Miles		
% Trucks:	5%	1.5			
Medium/Heavy Trucks Ratio:	55/45				
Day/Night Split:	90/10		1999		
Posted Speed Limit:	60 km/hr				
Gradient Of Road:	2%				
Ultimate R.O.W:	50m				
Comments: Ultimate Traffic Data	Only (2041)	1			



#### **Volume Result Details by Hour Report**

Location...... BURNHAMTHORPE RD E btwn BOUGH BEECHES BLVD & FIELDGATE

DR

Municipality...... Mississauga

**Count Station.....** 

**Direction.** Both Directions

Date	Time P	eriod	Count	Peak Hour
Thursday, May 05, 2016				
	12:00 AM	01:00 AM	171	
	01:00 AM	02:00 AM	97	
	02:00 AM	03:00 AM	79	
	03:00 AM	04:00 AM	48	
	04:00 AM	05:00 AM	58	
	05:00 AM	06:00 AM	196	
	06:00 AM	07:00 AM	804	
	07:00 AM	08:00 AM	1657	
	08:00 AM	09:00 AM	1991	
	09:00 AM	10:00 AM	1339	
	10:00 AM	11:00 AM	1200	
	11:00 AM	12:00 PM	1382	
	12:00 PM	01:00 PM	1428	
	01:00 PM	02:00 PM	1336	
	02:00 PM	03:00 PM	1504	
	03:00 PM	04:00 PM	1920	
	04:00 PM	05:00 PM	2295	
	05:00 PM	06:00 PM	2338	V
	06:00 PM	07:00 PM	1875	
	07:00 PM	08:00 PM	1461	
	08:00 PM	09:00 PM	1162	
	09:00 PM	10:00 PM	886	
	10:00 PM	11:00 PM	603	
	11:00 PM	12:00 AM	516	
Total			26,346	

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

Ontario Road Noise Analysis Method for Environment and Transportation

Road Segment ID	Roadway Name	Link Description	Speed (kph)	Period (h)	Total Traffic Volumes	Auto %	Med %	Hvy %	Auto	Med	Heavy	Road Gradient (%)	PWL (dBA)	Source Height, s (m)
DixieRdNB_avg	Dixie Road, Northbound	Daytime Impacts	60	16	21870	91.8%	1.4%	6.9%	20074	295	1500	0	87.2	1.6
DIXIERUND_avg	Dixie Road, Northbound	Night-time Impacts	60	8	2430	93.2%	2.0%	4.8%	2264	49	117	0	79.7	1.5
	Dixie Road, Northbound	Daytime Impacts	60	1	757	91.8%	1.4%	6.9%	695	10	52	0	84.7	1.6
DixieRdNB_min	Dixie Road, Northbound	Evening-time Impacts	60	1	541	91.8%	1.4%	6.9%	496	7	37	0	83.2	1.6
	Dixie Road, Northbound	Night-time Impacts	60	1	64	93.2%	2.0%	4.8%	59	1	3	0	73.0	1.5
Dixie Road, Southbound		Daytime Impacts	60	16	21870	91.8%	1.4%	6.9%	20074	295	1500	0	87.2	1.6
DixieRdSB_avg	Dixie Road, Southbound	Night-time Impacts	60	8	2430	93.2%	2.0%	4.8%	2264	49	117	0	79.7	1.5
Dixie Road, Southbound		Daytime Impacts	60	1	757	91.8%	1.4%	6.9%	695	10	52	0	84.7	1.6
DixieRdSB_min	Dixie Road, Southbound	Evening-time Impacts	60	1	541	91.8%	1.4%	6.9%	496	7	37	0	83.2	1.6
	Dixie Road, Southbound	Night-time Impacts	60	1	64	93.2%	2.0%	4.8%	59	1	3	0	73.0	1.5
BurnhamthorpeEB UH avg	Burnhamthorpe Rd E (1 dir, uphill)	Daytime Impacts	60	16	15975	95.0%	2.8%	2.3%	15176	439	359	2.9	84.1	1.2
Bullilallithorpecb_OH_avg	Burnhamthorpe Rd E (1 dir, uphill)	Night-time Impacts	60	8	1775	95.0%	2.8%	2.3%	1686	49	40	2.9	77.6	1.2
Princh and the annual M.P. D.H. avec	Burnhamthorpe Rd E (1 dir, downhill)	Daytime Impacts	60	16	15975	95.0%	2.8%	2.3%	15176	439	359	0	83.2	1.2
BurnhamthorpeWB_DH_avg  Burnhamthorpe Rd E (1 dir, downl		Night-time Impacts	60	8	1775	95.0%	2.8%	2.3%	1686	49	40	0	76.7	1.2
BurnhamthorpeEB avg	Burnhamthorpe Rd E, Eastbound	Daytime Impacts	60	16	15975	95.0%	2.8%	2.3%	15176	439	359	0	83.2	1.2
BurnnamthorpeEB_avg	Burnhamthorpe Rd E, Eastbound	Night-time Impacts	60	8	1775	95.0%	2.8%	2.3%	1686	49	40	0	76.7	1.2
	Burnhamthorpe Rd E (1 dir, uphill)	Daytime Impacts	60	1	600	95.0%	2.8%	2.3%	570	17	14	2.9	81.9	1.2
BurnhamthorpeEB_UH_min	Burnhamthorpe Rd E (1 dir, uphill)	Evening-time Impacts	60	1	302	95.0%	2.8%	2.3%	286	8	7	2.9	78.9	1.2
	Burnhamthorpe Rd E (1 dir, uphill)	Night-time Impacts	60	1	24	95.0%	2.8%	2.3%	23	1	1	2.9	67.9	1.2
Burnhamthorno\M/R aug	Burnhamthorpe Rd E, Westbound	Daytime Impacts	60	16	15975	95.0%	2.8%	2.3%	15176	439	359	0	83.2	1.2
BurnhamthorpeWB_avg	Burnhamthorpe Rd E, Westbound	Night-time Impacts	60	8	1775	95.0%	2.8%	2.3%	1686	49	40	0	76.7	1.2
	Burnhamthorpe Rd E (1 dir, downhill)	Daytime Impacts	60	1	600	95.0%	2.8%	2.3%	570	17	14	0	81.0	1.2
BurnhamthorpeWB_DH_min	Burnhamthorpe Rd E (1 dir, downhill)	Evening-time Impacts	60	1	302	95.0%	2.8%	2.3%	286	8	7	0	78.0	1.2
	Burnhamthorpe Rd E (1 dir, downhill)	Night-time Impacts	60	1	24	95.0%	2.8%	2.3%	23	1	1	0	67.0	1.2



## **Appendix C STAMSON Output File**

#### **Environmental Noise Assessment**

1315 Silver Spear Road, Mississauga

**Starlight Investments** 

SLR Project No.: 241.031124.00001

February 19, 2025



STAMSON 5.0 NORMAL REPORT Date: 10-02-2025 09:56:09

MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: silver3.te Time Period: 16 hours

Description:

Road data, segment # 1: Burnham UH

\_\_\_\_\_

Car traffic volume : 15176 veh/TimePeriod Medium truck volume : 439 veh/TimePeriod Heavy truck volume : 359 veh/TimePeriod

Posted speed limit : 60 km/h

Road gradient : 3 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: Burnham\_UH

-----

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

: 2 Surface (Reflective ground surface)

Receiver source distance : 16.07 m Receiver height : 1.50 m

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

Reference angle : 0.00

Road data, segment # 2: Burnham DH

-----

Car traffic volume : 15176 veh/TimePeriod Medium truck volume : 439 veh/TimePeriod Heavy truck volume : 359 veh/TimePeriod Posted speed limit : 60 km/h

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

Data for Segment # 2: Burnham DH

-----

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

Surface 2 (Reflective ground surface)

Receiver source distance : 27.86 m Receiver height : 1.50 m

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

Reference angle : 0.00

Road data, segment # 3: Dixie NB

-----

Car traffic volume : 20074 veh/TimePeriod Medium truck volume : 295 veh/TimePeriod Heavy truck volume : 1500 veh/TimePeriod

Posted speed limit : 60 km/h

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

Data for Segment # 3: Dixie\_NB

-----

Angle1 Angle2 : -32.36 deg 0.00 deg Wood depth : 0 (No woods : 0 (No woods.)

No of house rows : 0

(Reflective ground surface) Surface 2

Receiver source distance : 241.06 m

Receiver height : 1.50 m

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

Reference angle : 0.00

Road data, segment # 4: Dixie SB

\_\_\_\_\_ Car traffic volume : 20074 veh/TimePeriod

Medium truck volume : 295 veh/TimePeriod Heavy truck volume : 1500 veh/TimePeriod

Posted speed limit : 60 km/h

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

Data for Segment # 4: Dixie\_SB

-----

Angle1 Angle2 : -32.36 deg 0.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0
Surface : 2 (Reflective

(Reflective ground surface)

Receiver source distance : 224.26 m

Receiver height : 1.50 m
Topography : 1 : 1 (Flat/gentle slope; no barrier)

Reference angle : 0.00

Results segment # 1: Burnham UH

-----

Source height = 1.22 m

ROAD (0.00 + 68.75 + 0.00) = 68.75 dBA

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

90 0.00 69.05 0.00 -0.30 0.00 0.00 0.00 0.00 68.75 \_\_\_\_\_\_

Segment Leq: 68.75 dBA

Results segment # 2: Burnham\_DH

Source height = 1.22 m

ROAD (0.00 + 65.47 + 0.00) = 65.47 dBA

Angle1 Angle2 Alpha RefLeq P.Adj D.Adj F.Adj W.Adj H.Adj B.Adj SubLeq
-90 90 0.00 68.16 0.00 -2.69 0.00 0.00 0.00 0.00 65.47

Segment Leq: 65.47 dBA

Results segment # 3: Dixie\_NB

Source height = 1.62 m

ROAD (0.00 + 52.66 + 0.00) = 52.66 dBA

Angle1 Angle2 Alpha RefLeq P.Adj D.Adj F.Adj W.Adj H.Adj B.Adj SubLeq
-32 0 0.00 72.17 0.00 -12.06 -7.45 0.00 0.00 0.00 52.66

Segment Leq: 52.66 dBA

Results segment # 4: Dixie\_SB

Source height = 1.62 m

ROAD (0.00 + 52.97 + 0.00) = 52.97 dBA

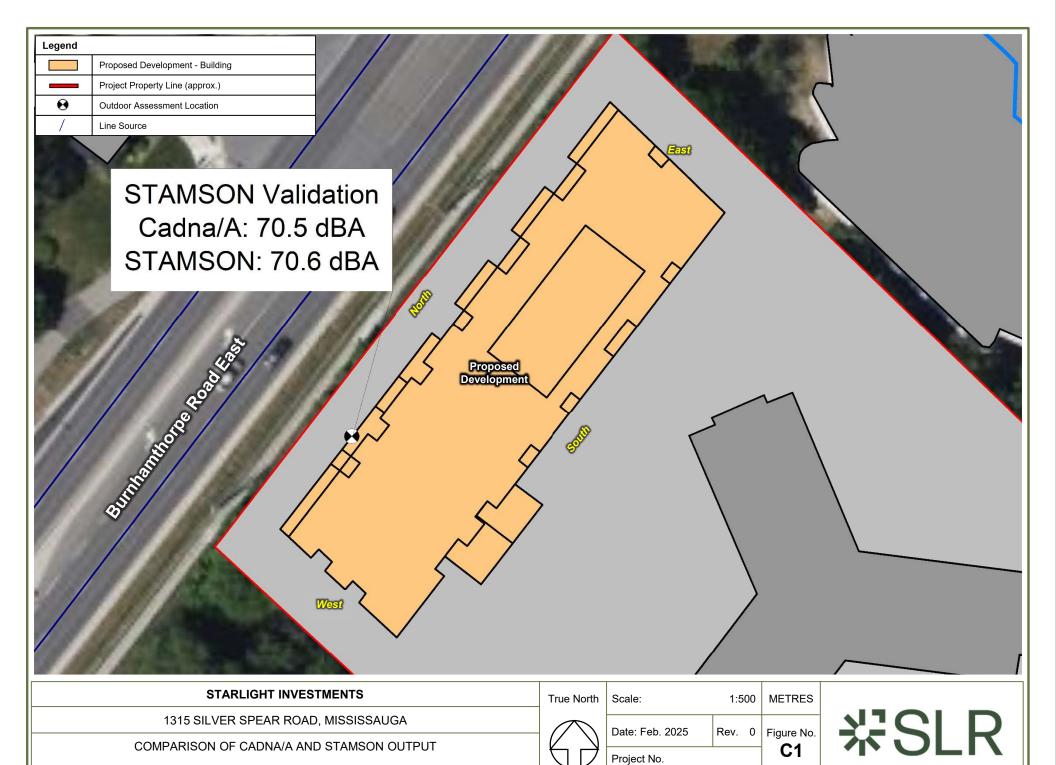
Angle1 Angle2 Alpha RefLeq P.Adj D.Adj F.Adj W.Adj H.Adj B.Adj SubLeq

-32 0 0.00 72.17 0.00 -11.75 -7.45 0.00 0.00 0.00 52.97

Segment Leq: 52.97 dBA

Total Leq All Segments: 70.57 dBA

TOTAL Leg FROM ALL SOURCES: 70.57



241.031153.00001



# Appendix D Ventilation, Warning Clause and Mitigation Summary

#### **Environmental Noise Assessment**

1315 Silver Spear Road, Mississauga

**Starlight Investments** 

SLR Project No.: 241.031124.00001

February 19, 2025



## Appendix D Ventilation, Warning Clause and Mitigation 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, ventilation and mitigation recommendations is included in **Table D.1**.

**MECP Type A:** "Purchasers/tenants are advised that sound levels due to increasing road traffic (rail traffic) (air traffic) may occasionally interfere with some activities of the dwelling occupants as the sound levels exceed the sound level limits of the Municipality and the Ministry of the Environment."

**MECP Type B:** "Purchasers/tenants are advised that despite the inclusion of noise control features in the development and within the building units, sound levels due to increasing road traffic (rail traffic) (air traffic) may on occasions interfere with some activities of the dwelling occupants as the sound levels exceed 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."

**MECP Type E:** "Purchasers/tenants are advised that due to the proximity of the adjacent institutional and commercial facilities, noise from the facilities may at times be audible."

Table D.1: Summary of Ventilation, Warning Clause and Mitigation Recommendations

Developme Location/Build		Ventilation Recommendations	Warning Clause Recommendations							
Residential Building (14 Storeys)	Yes – refer to <b>Figure 5</b> and reposection <b>2.5.2.1</b> .	ort Central AC	Type A <sup>[2]</sup> , Type B <sup>[3]</sup> , Type D, Type E							
Notes: [1] Refer to Figure 5 for required barrier locations.  [2] Based on an MECP NPC-300 criteria.  [3] Based on the City of Mississauga suggested sound level.										



February 19, 2025

SLR Project No.: 241.031124.00001

D-1



# Appendix E Stationary Source Modelling Data

#### **Environmental Noise Assessment**

1315 Silver Spear Road, Mississauga

**Starlight Investments** 

SLR Project No.: 241.031124.00001

February 19, 2025



February 19, 2025 SLR Project No.: 241.031124.00001

#### STATIONARY SOURCE MODELLING DATA

Source Description	Maximum Sound Power Level (1/1 Octave Bands) (dB)									Modelled Sound	Source Notes			
Source Description		63	125	250	500	1000	2000	4000	8000	Power Level (dBA)	ource Notes			
Burnhamthorpe Library														
Rooftop HVAC - 5 ton - x4 units	77.0	80.0	81.0	81.0	80.0	78.0	74.0	70.0	64.0	82.5	Based on historical SLR data - Operates 60 minutes per hour during daytime/evening hours - Operates 15 minutes per hour during night-time hours			
Rooftop HVAC - 10 ton - x8 units	80.0	83.0	84.0	84.0	83.0	81.0	77.0	73.0	67.0	85.5	Based on historical SLR data - Operates 60 minutes per hour during daytime/evening hours - Operates 15 minutes per hour during night-time hours			
Rooftop HVAC - 30 ton - x1 unit	-	85.0	88.0	87.0	88.0	88.0	83.0	79.0	73.0	91.5	Based on historical SLR data - Operates 60 minutes per hour during daytime/evening hours - Operates 15 minutes per hour during night-time hours			
Shell Gas Station & Car Wash/Jiffy Lube														
Rooftop HVAC - 5 ton - x1 unit	77.0	80.0	81.0	81.0	80.0	78.0	74.0	70.0	64.0	82.5	Based on historical SLR data  - Operates 60 minutes per hour during daytime/evening hours  - Operates 30 minutes per hour during night-time hours			
Rooftop HVAC - 10 ton - x1 unit	80.0	83.0	84.0	84.0	83.0	81.0	77.0	73.0	67.0	85.5	Based on historical SLR data - Operates 60 minutes per hour during daytime/evening hours - Operates 30 minutes per hour during night-time hours			
Car Wash (entrance) - x1 unit	86.2	88.3	84.5	84.2	85.8	82.1	82.1	80.9	76.8	89.0	Based on historical SLR data - Operates 6 minutes per hour during daytime/evening hours - Operates 1 minute per hour during night-time hours			
Car Wash (exit) - x1 unit	102.1	109.7	106.2	107.2	104.3	103.1	100.7	95.2	89.2	107.9	Based on measurement by SLR staff conducted September 22, 2023  - Operates 12 minutes per hour during daytime/evening hours  - Operates 2 minutes per hour during night-time hours			
Bay Door Breakout Noise - Impact wrench - x4 unit	82.6	77.9	82.4	75.8	79.3	78.4	85.6	85.1	84.9	91.0	Based on historical SLR data - Operates 1 minutes per hour during daytime/evening hours - Additional +10 dB penalty applied in Cadna/A for quasi-steady impulsive sound quality			
Bay Door Breakout Noise - Compressed Air - x2 unit	101.1	100.5	95.8	89.3	86.0	86.3	83.5	84.8	80.8	92.1	Based on historical SLR data - Operates 10 minutes per hour during daytime/evening hours - Additional +5 dB penalty applied in Cadna/A for tonal sound quality			
Car vacuum - x2 unit	80.2	83.8	81.4	90.2	78.4	81.2	84.6	87.0	84.0	91.8	Based on historical SLR data - Operates 30 minutes per hour during daytime/evening hours - Operates 5 minutes per hour during night-time hours			
Car Idling - x10 unit	-	85.0	80.0	75.0	72.0	70.0	69.0	65.0	55.0	76.0	Based on historical SLR data - Operates 60 minutes per hour during daytime/evening hours			

