TOWN OF CALEDON PLANNING RECEIVED

April 20, 2021



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March 3, 2021

Brittney Espinola Watters Environmental Group Inc. 9135 Keele St., Unit A1 Vaughan, ON, L4K0J4

Dear Brittney:

Re: Preliminary Hydrogeological Investigation – 12563 and 12599 Highway 50,

Bolton, Ontario

Project #: 2001507

1. Introduction

Palmer was retained by Watters Environmental Group Inc. on behalf of 12599 Hwy 50 Ltd. to complete a Preliminary Hydrogeological Investigation for the properties of 12563 and 12599 Highway 50, Bolton, Ontario (the "site") (**Figure 1**). Currently, the site is occupied by commercial buildings and parking areas. The site is located approximately 1.5 km north of the intersection between Mayfield Road and Highway 50. We understand that the owner of the site is considering a development consisting of five (5) multistory mixed use towers with up to three (3) levels of underground parking. The conceptual development plan is provided in **Appendix A**.

This preliminary assessment is based on available surficial geology data, previous borehole drilling completed by Watters Environmental Group Inc., and limited hydraulic testing. As the design of the underground structures, excavation staging and shoring has not been finalized, all calculations provided are considered preliminary in nature and will require further field verification as the design of the development progresses.

1.1 Scope of Work

Palmer's Hydrogeological Investigation completed includes the following main tasks:

- Obtain and review applicable background information including surficial geology maps, previous borehole logs, physiography mapping, and Ministry of the Environment, Conservation and Parks (MECP) water well records;
- Characterize the hydrogeology of the site based on previous drilling programs;
- Collect one (1) round of groundwater level measurements from accessible monitoring wells;



- Complete single well response testing (i.e., slug tests) at 2 locations and utilize grain size data to provide a preliminary assessment of soil permeability;
- Provide a preliminary dewatering estimates based on available hydraulic conductivity and groundwater level information; and
- Produce a Preliminary Hydrogeological Investigation Report outlining the results and recommendations for the site.

2. Regional Conditions

2.1 Physiography and Surficial Geology

The majority of the site area is situated within the South Slope physiographic region (Chapman and Putnam, 1984). This region is located south of the Oak Ridges Moraine and is characterized predominantly by clay till soils. Numerous streams descend the South Slope region and cut deep valleys in the till drumlins, oriented up slope. The eastern edge of the site is located in the Peel Plain physiographic region (Chapman and Putnam, 1984).

The surficial geology of the site, as described by Ontario Geological Survey (OGS) mapping, is characterized by the clay to silt textured Halton Till (**Figure 2**). Halton Till forms a regional aquitard in southern Ontario, and overlays the southern flank of the Oak Ridges Moraine.

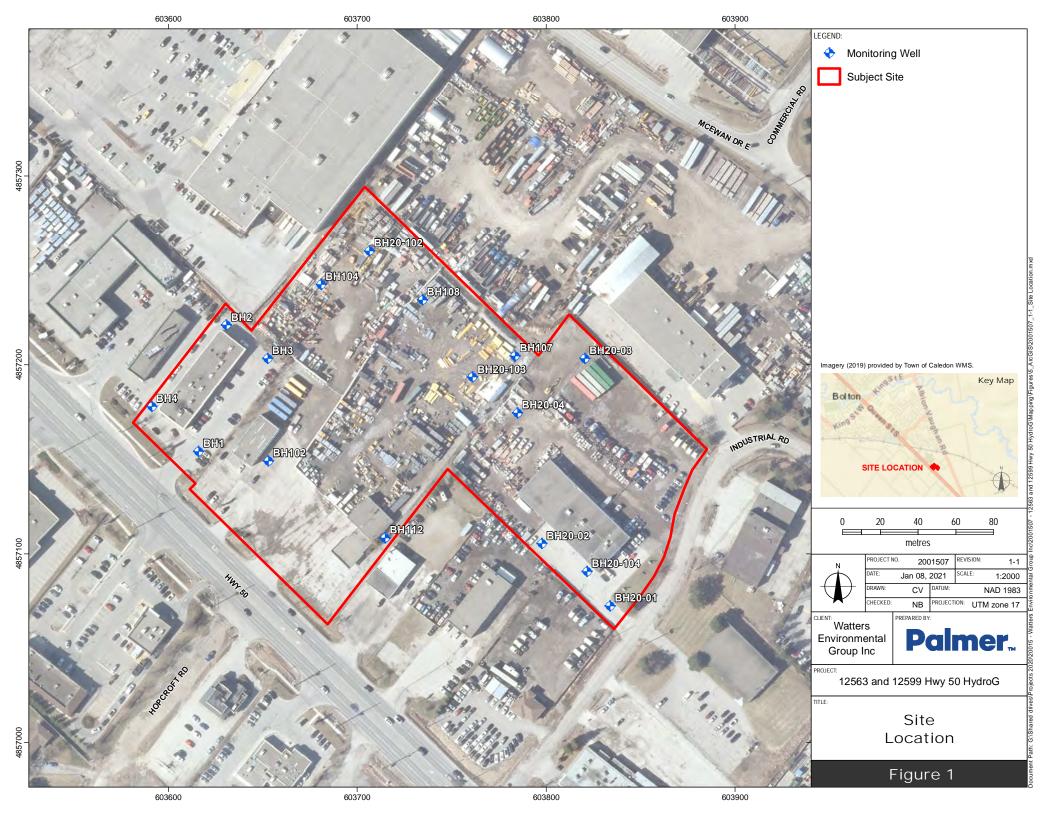
2.2 Drainage and Natural Environment

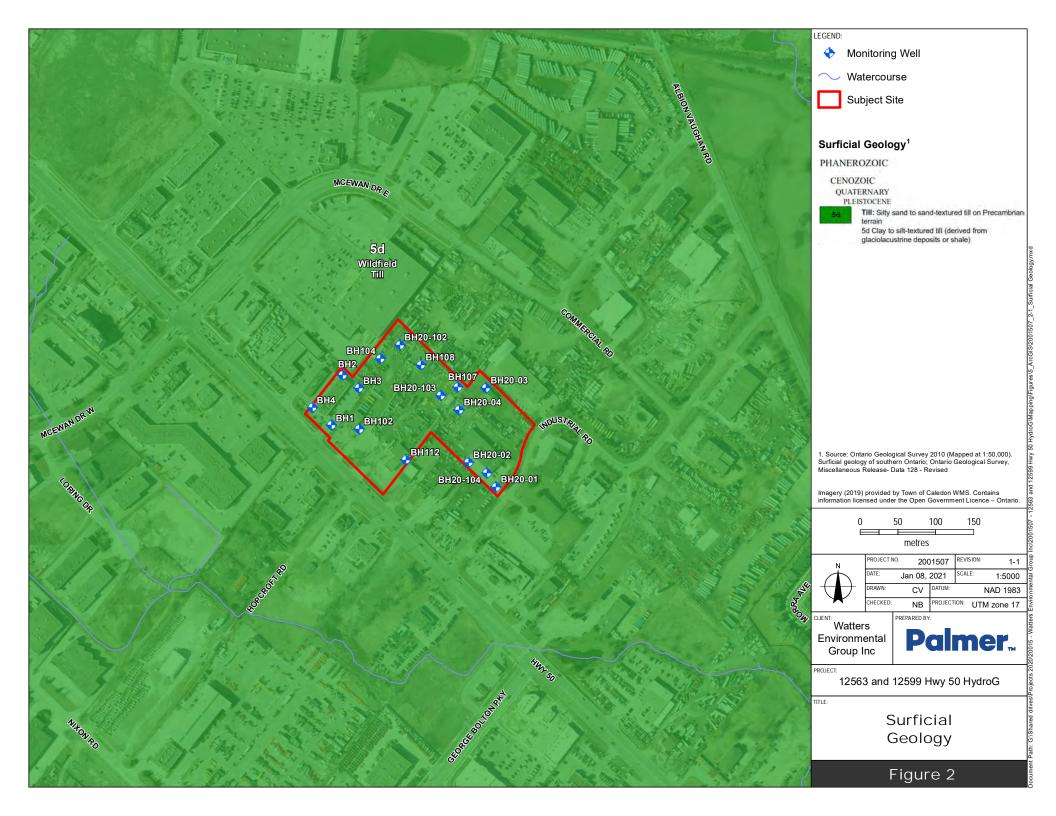
The site is situated in the Humber River watershed, which encompasses 911 km² and is the largest in the Toronto and Region Conservation Authority's (TRCA) jurisdiction. Water from the Niagara Escarpment and the Oak Ridges Moraine flows down the Humber River into Lake Ontario. The main branch of the river flows 126 km. The site is found near multiple tributaries of rainbow creek, where water eventually discharges into the Humber River.

2.3 Hydrogeology

Hydrostratigraphic units can be subdivided into two distinct groups based on their ability to allow groundwater movement. An aquifer is defined as a layer of soil that is permeable enough to permit a usable supply of water to be extracted. An aquitard is a layer of soil that inhibits groundwater movement due to its low permeability. Groundwater flow within the site area is influenced by one key hydrostratigraphic unit:

The *Halton Till* is a clayey silt to silty clay textured till unit representing the final advance of ice at the end of the Wisconsinan glaciations. It has a predominantly silty clay to silt matrix and contains isolated lenses of laminated sand, silt, and clay. Regionally the unit ranges in thickness from approximately 20 - 30 m, and acts as a surficial aquitard, with hydraulic conductivities ranging from about 10⁻⁵ to 10⁻⁹ m/s (Sharp et al., 1996). The low bulk permeability acts to inhibit local groundwater recharge and reducing the exposure of underlying aquifers to contamination (Sharp et al., 1996). Groundwater flow within till soils is typically downwards towards more permeable, confined aquifer units.







2.4 MECP Water Wells

Based on a review of the MECP water well record database, 43 water wells are situated within a 250 m radius of the site boundary (**Figure 3**). Details on each water well are provided below in **Table 1**. Of the water wells, 13 are for domestic use, 2 are for commercial use, 3 are for livestock and domestic use, 2 are for industrial and domestic use, 18 are for monitoring or test holes, and 5 are unknown. The depth of wells ranged from 2.3 to 75.6 meters below ground surface (mbgs), with water level depths ranging from 21.3 to 48.2 mbgs. Due to the average depths (54.3 mbgs) and average water levels (31.7 mbgs) of the wells used for livestock, domestic, industrial and commercial use, it is anticipated that this development will not impact any nearby water well users.

Table 1. Water Well Records

W. II ID	Date	Depth	Water Level	W. II II .
Well ID	Completed	(mbgs)	(mbgs)	Well Use
4900316	1967-12-01	47.2	36.6	Livestock / Domestic
4900317	1959-07-20	31.7	-	Unknown
4900364	1963-09-26	40.5	40.5 37.8	
4900365	1963-12-11	59.4	37.2	Domestic
4900365	1963-12-11	59.4	37.2	Domestic
4900365	1963-12-11	59.4	37.2	Domestic
4900366	1967-06-14	49.4	31.7	Domestic
4900367	1967-10-13	45.1	34.1	Livestock / Domestic
4900367	1967-10-13	45.1	34.1	Livestock / Domestic
4900368	1963-10-31	70.1	21.3	Domestic
4900370	1964-07-02	41.5	-	Unknown
4903682	1971-08-23	56.7	40.2	Domestic
4903682	1971-08-23	56.7	40.2	Domestic
4904095	1973-03-15	49.4	38.7	Industrial
4904191	1973-09-10	53.9	21.3	Domestic
4904495	1974-08-26	68.6	27.4	Commercial
4904495	1974-08-26	68.6	27.4	Commercial
4904497	1974-08-13	75.6	48.2	Domestic
4904849	1976-01-15	45.7	39.6	Industrial / Domestic
4905188	1977-06-02	64	40.5	Domestic
4905282	1977-11-04	50.3	28.7	Domestic
4908578	2000-03-17	56.7	38.4	Domestic
7048899	2007-07-10	17.1	-	Unknown
7051218	2007-08-31	-	-	Unknown
7143511	2009-09-11	9.1	-	Monitoring / Test hole
7143512	2009-09-11	9.1	-	Monitoring / Test hole
7149488	2010-07-15	2.3	-	Monitoring / Test hole
7149489	2010-07-15	2.3	-	Monitoring / Test hole
7149490	2010-07-15	2.3	-	Monitoring / Test hole

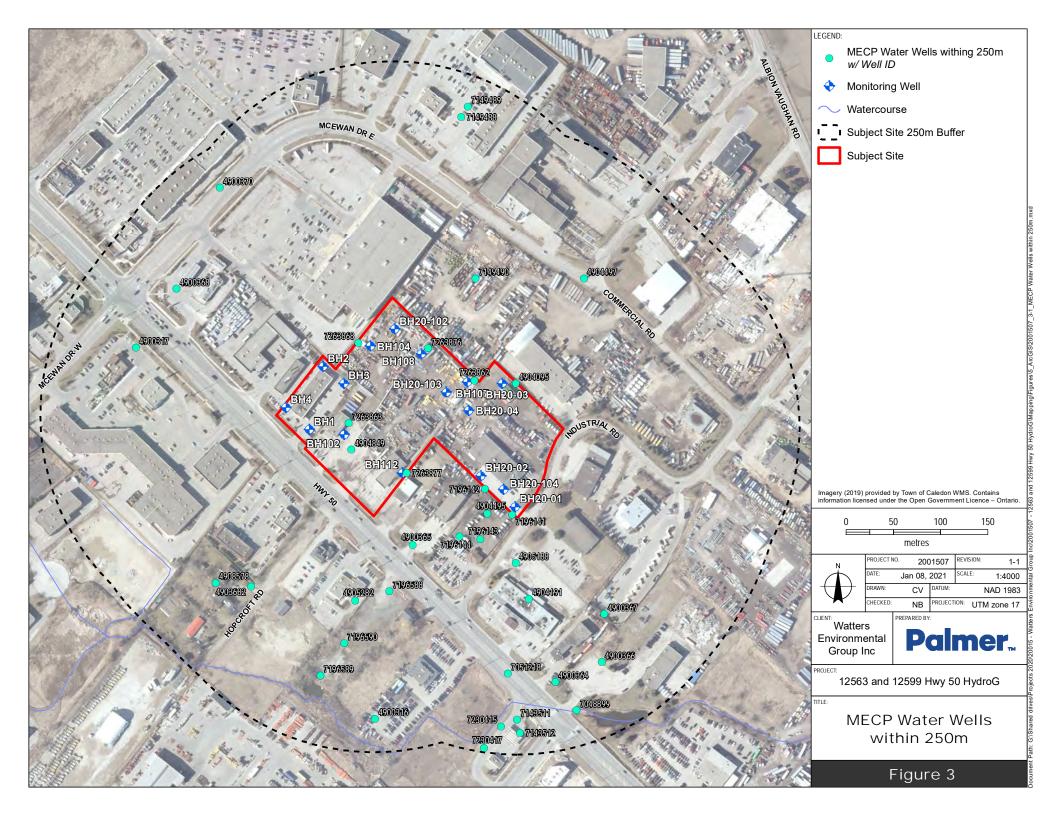


Well ID	Date Completed	Depth (mbgs)	Water Level (mbgs)	Well Use
7196141	2013-01-17	5.8	-	Monitoring / Test hole
7196142	2013-01-17	6.1	-	Monitoring / Test hole
7196143	2013-01-17	5.9	-	Unknown
7196144	2013-01-17	-	-	Monitoring / Test hole
7196588	2012-12-13	4.9	-	Monitoring
7196589	2012-12-13	3.7	-	Monitoring
7196590	2012-12-13	7.3	-	Monitoring
7230415	2014-08-06	7.6	-	Monitoring
7230417	2014-08-06	7.6	-	Monitoring
7263862	2016-05-10	6	-	Monitoring
7263863	2016-05-11	6	-	Monitoring
7263868	2016-05-11	6	-	Monitoring
7263876	2016-05-10	6	-	Monitoring
7263877	2016-05-11	6	-	Monitoring

2.5 Source Water Protection

The site located in the Credit Valley, Toronto and Region and Central Lake Ontario (CTC) Source Protection Area. The Source Water Protection Plan identifies three main regulatory factors under the *Clean Water Act (2006)* relating to local hydrogeology to consider for site development: Significant Groundwater Recharge Areas (SGRAs), Highly Vulnerable Aquifers (HVAs), and Wellhead Protection Areas (WHPAs).

Based on available Source Information Protection mapping, the site is not situated within Source Water Protection regulatory zones (HVA, SGRA, and WHPA.) and will therefore likely not require a Section 59 Permit. This site is also not situated within a WHPA-Q1/Q2 (recharge management) and is therefore not subject to the recharge management policies under the Source Protection Plan.





3. Hydrogeological Investigation

3.1 Borehole Drilling and Monitoring Well Installation

Multiple borehole drilling programs have been completed at the site between May 2016, and December 2020. The location of each monitoring well is presented in **Figure 1**, and the well installation details are provided in **Table 2**. The completed borehole logs are presented in **Appendix B**. A total of sixteen (16) 2-inch diameter monitoring wells have been installed at the site ranging in depths from 6.1 – 15.9 mbgs.

Monitoring **Borehole** Completion Screened Interval Screened **Hydrostratigraphic** Well Depth Date (mbgs) Geology Unit ID (m) BH102 6.1 2016-05-11 3.1 - 6.1Silty Clay/ Clay Halton Till BH104 2016-05-11 3.1 - 6.1Silty Clay/ Clay Halton Till 6.1 BH107 6.1 2016-05-10 3.1 - 6.1Silty Clay/ Clay Halton Till BH108 3.1 - 6.1Halton Till 6.1 2016-05-10 Clay BH112 6.1 2016-05-11 3.1 - 6.1Silty Clay/ Clay Halton Till BH1 6.9 2019-06-18 3.9 - 6.9Silty Clay Halton Till BH2 6.9 2019-06-18 3.9 - 6.9Silty Clay Halton Till BH3 6.8 2019-06-19 3.8 - 6.8Silty Clay Halton Till BH4 7.0 2019-06-19 4.0 - 7.0Silty Clay Halton Till BH20-01 6.1 2020-05-19 3.1 - 6.1Clayey Silt Halton Till BH20-02 6.7 2020-05-19 3.1 - 6.1Clayey Silt / Silt Halton Till BH20-03 6.7 2020-05-19 3.1 - 6.1Silt Halton Till BH20-04 3.1 - 6.1Clayey Silt / Silt Halton Till 6.1 2020-05-20 BH20-102 15.7 2020-12-07 12.5 - 15.5Silty Clay Halton Till BH20-103 15.9 2020-12-03 12.2 - 15.2Silty Clay Halton Till Silty Clay BH20-104 15.7 2020-12-10 12.5 - 15.5Halton Till

Table 2. Monitoring Well Installation Details

3.1.1 Site Specific Geology

The results of the borehole drilling programs are summarized below:

Fill: This unit was identified in all boreholes ranging from 0.2 - 1.5 m. This unit was composed of sand and gravel, trace clay, trace silt, rootlets, was brown to grey, and was loose to stiff.

Clayey Silt: This unit was identified in BH102, BH104, BH107, BH108, BH112, BH20-01, BH20-02, BH20-03, and BH20-04. This unit ranged in thickness from 0.7 – 4.4 m. This unit was contained trace gravel, trace sand, was brown to grey, moist, and stiff to hard. This unit was found below fill below fill in BH102, BH104, BH107, BH108, BH112, and BH20-03. This unit was found below silt in BH20-01, BH20-02, and BH20-04.



Silt: This unit was identified in BH20-01, BH20-02, BH20-03, and BH20-04. This unit ranged in thickness from 2.2 – 5.2 m thick. This unit contained trace to some clay, trace sand, trace gravel, was brown to grey, dry to wet, and was stiff to hard. This unit was found below fill in BH20-01, BH20-02, and BH20-04.

Clay : This unit was identified in BH102, BH104, BH107, BH108, and BH112. This unit ranged in thickness from 1.5 – 4.6 m. This unit contained trace gravel, trace silt, was brown to grey, and moist. This unit was found below clayey silt.

Silty Clay: This unit was found in BH1, BH2, BH3, BH4, BH20-102, BH20-103, and BH20-104. This unit ranged in thickness from 6.2 – 15.9 m. This unit contained trace gravel, trace clay, sand seams, was brown to grey, stiff to very stiff, and moist.

3.2 Groundwater Levels

Groundwater levels were measured on May 11, 2016, June 25, 2019, May 27, 2020 and December 17, 2020. **Table 3** presents the water levels measured in each accessible monitoring well and when the measurements were collected. Water levels ranged from 0.98 – 15.10 mbgs. It is important to note that due to the low permeability of the clay till present on site, water levels collected from BH20-102, BH20-103, and BH20-104 may not have recovered to static water level conditions since installation in early December.

Monitoring Well	Borehole Depth		Water L	.evel (mbgs)	
ID	(m)	May 11, 2016	June 25, 2019	May 27, 2020	December 17, 2020
BH102	6.1	5.80	-	-	2.61
BH104	6.1	4.80	-	-	-
BH107	6.1	5.60	-	-	-
BH108	6.1	2.80	-	-	-
BH112	6.1	4.10	-	-	-
BH1	6.9	-	3.74	-	2.64
BH2	6.9	-	1.07	-	0.98
ВН3	6.8	-	-	-	1.76
BH4	7.0	-	1.54	-	2.12
BH20-01	6.1	-	-	3.41	1.63
BH20-02	6.7	-	-	3.41	4.1
BH20-03	6.7	-	-	5.20	-
BH20-04	6.1	-	-	5.16	-
BH20-102	15.7	-	-	-	14.56
BH20-103	15.9	-	-	-	14.76
BH20-104	15.7	-	-	-	15.10

Table 3. Groundwater Levels

3.3 Hydraulic Conductivity

On December 17, 2020, Palmer conducted single well response tests (SWRT) to determine the hydraulic conductivity (K) of the geological material at BH1, and BH3. The full analysis is provided in **Appendix C** and is summarized in **Table 4.** The single well response tests consisted of falling head tests, which act to create a head change through the insertion of a PVC slug with a diameter of 1.5 inches and length of 1 m.



The rate of recovery as the water level returns to static were recorded using a datalogger which was set to record water levels at two-second intervals. Manual water level measurements were also collected during the tests in order to gauge recovery. Tests were terminated once either 80% recovery had been attained, or 30 minutes had elapsed.

K-values were calculated from the displacement-time data using the Hvorslev (1951) method for confined aquifers as modelled by Aqtesolv[™] software.

Monitoring Well	Well Depth	Screened Interval	Screened Geology	Hydrostratigraphic Unit	Test	Hydraulic Conductivity (m/s)	Geometric Mean K (m/s)
BH1	6.9	3.9 – 6.9	Silty Clay	Halton Till	FH	7.6 x 10 ⁻⁹	6 x 10 ⁻⁹
ВН3	6.8	3.8 – 6.8	Silty Clay	Halton Till	FH	4.7 x 10 ⁻⁹	0 X 10 -

Table 4. Single Well Response Test Hydraulic Conductivity Summary

3.3.1 Grain-size Analysis

The hydraulic conductivity of the overburden soils was calculated using empirical relationships derived by Puckett (1985), which utilizes grain size distribution curves of soil samples. Four (4) soil samples from BH20-106 were collected and analysed for grain size. The completed grain size distribution curve is provided in **Appendix D**, and the results of the empirical analysis are provided in **Table 5**.

Borehole ID	Sample Number	Sample Depth (mbgs)	Geology	Method of Analysis	K (m/s)
	8	6.2	Silty Clay	Puckett	2.2 x 10 ⁻⁹
BH20 406	14	15.4	Silty Clay	Puckett	5.7 x 10 ⁻⁷
BH20-106	16	18.6	Sandy Silt	Puckett	8.8 x 10 ⁻⁶
	20	24.2	Silt	Puckett	6.5 x 10 ⁻⁷

Table 5. Grain Size Hydraulic Conductivity Summary

Three different soil types were analyzed for grain size. Based on the Puckett method of analysis, K values generally increased with depth due to the presence of more coarse soils. It is important to note that utilizing grain size analysis to determine K values does not consider the level of compaction of the soil, and therefore tends to overestimate K values.

3.4 Preliminary Hydraulic Conductivity Summary

Based on preliminary hydraulic testing and grain size analysis, the hydraulic conductivity of the overburden at the site ranged from 8.8×10^{-6} to 2.2×10^{-9} m/s. All hydraulic conductivity values represent



the Halton Till which has two distinct matrices of silt/ clay and sand/ silt. A summary of these conductivity values is provided in **Table 6**.

Κ Borehole ID Method of Analysis Hydrostratigraphic Unit Lithology K (m/s) Geomean (m/s) BH1 Falling Head Silty Clay 7.6 x 10⁻⁹ 4.7 x 10⁻⁹ BH3 Falling Head Silty Clay 1.5 x 10⁻⁸ Grain Size Analysis 2.2 x 10⁻⁹ Silty Clay Halton Till Grain Size Analysis Silty Clay 5.7 x 10⁻⁷ BH20-106 Grain Size Analysis Sandy Silt 8.8 x 10⁻⁶ 2.4 x 10⁻⁶ Grain Size Analysis Silt 6.5×10^{-7}

Table 6. Hydraulic Conductivity Summary

4. Conceptual Dewatering Assessment

A preliminary dewatering assessment was completed based on the current understanding of the development (**Appendix A**). As the design of the underground structures, excavation staging and shoring has not been finalized, all dewatering calculations are subject to change as the development design progresses. The current proposed development consists of five (5) multistorey mixed use towers with three (3) levels of underground parking. The highest available water level plus 0.5 m to account for the water table seasonal high was used to calculate a dewatering rate. Dewatering estimates assume a 75 m by 120 m excavation. The calculated geometric mean hydraulic conductivity from the silty clay till (1.5 x 10⁻⁸ m/s) was used to calculate a dewatering rate.

Dewatering rate estimates (Q) for the proposed building was calculated using the following equation from Powers et. al (2007) for an unconfined aquifer:

$$Q = n \left[\frac{xK(H^2 - h^2)}{2L} \right] \qquad m^3/s$$

Where K = hydraulic conductivity (m/s)

H = saturated thickness (m)

h = saturated thickness after dewatering (m)

 R_0 = radius of influence estimated using the Sichardt equation:

 $R_0 = 3000 * (H-h)*\sqrt{K}$ (m)

x = excavation length (m)

a = excavation width (m)

n = number of sides of excavation

L = line source distance (m) which is the greater of Rd2 or 10 m

Table 7 presents a summary of the estimated dewatering rates and radius of water table drawdown. Calculations used a water level of 0.98 mbgs + 0.5 m to account for seasonal high water levels, and a



hydraulic conductivity value of 1.58×10^{-8} m/s. Calculations assume lowering the water table 10.5 m to account for three (3) levels of basement, plus 1 m below the excavation base to provide a dry excavation.

The estimated dewatering rate is 3,964 L/day to lower the water table 11.5 m. Adding a contingency value of 50,000 L/day to account for surface water inputs and perched seepage, the estimated total dewatering rate is 53,964 L/day. It is important to note that this dewatering estimate accounts for a single building excavation and assumes condo towers would not be completed concurrently. The calculated radius of influence (R) is estimated to be 4.0 m.

Due to the size of the excavation, a dewatering rate for precipitation inputs has been calculated. Based on a 25 mm storm event, an excavation size of 75 x 120 m, and a 10% loss of precipitation due to evaporation, a total of 202,500 L of precipitation will collect in each excavation. To maintain a dry excavation, a pumping rate of 4,218 L/hr will be required to dewater the excavation over two days.

Depth of Excavation	Exca	mated avation ensions	Geology	K (m/s)	Water Level +	H (m)	h (m)	R (m)	L (m)	Est. Dewatering	Total Est. Dewatering Rate (incl.
(m)	a(m)	X(m)	, or	` ,	0.5 m (mbgs)	` ,	, ,	` ,	` ,	Rate (L/day)	50,000 L/day Contingency)
10.5	75.0	120.0	Halton Till	1.5 x 10 ⁻⁸	0.48	11.0	0.0	4.0	10.0	3,964	53,964

Table 7. Preliminary Dewatering Calculation Summary

5. Hydrogeological Construction Considerations

5.1 Hydrogeological Site Summary

Borehole investigations confirmed this site is overlain by a thick layer of silty clay till, interpreted to be representative of Halton Till. Based on hydraulic testing and grain size analysis, the hydraulic conductivity of the till ranges from 5.7 x 10⁻⁷ to 2.2 x 10⁻⁹ m/s. A sandy silt lithology of the Halton Till was identified below the silty clay till at approximately 16.6 mbgs. Based on grain size analysis, the sandy silt till had a hydraulic conductivity ranging from 8.8 x 10⁻⁶ to 6.5 x 10⁻⁷. Groundwater levels from the site ranged from 0.98 to 15.10 mbgs. Recently completed borehole may not have recovered to static water level conditions, and further groundwater level collection events at these wells are recommended.

5.2 Permitting Requirements

Under the MECP Environmental Activity and Sector Registry (EASR) system, water takings for construction that are less than 400,000 L/day but over 50,000 L/day do not require a PTTW, however the project must be registered on the EASR and meet a series of environmental protection criteria. Based on the preliminary dewatering assessment, it is likely that this site will not require a PTTW as long as only



one building is constructed at a time. As estimated dewatering rates exceed 50,000 L/day, it is recommended that further investigations be completed to meet the requirements to be registered for an EASR for construction dewatering.

5.3 Foundations

Watertight foundations will likely not be required for this site due to the low permeability of the Halton Till. However, further field investigation is required to confirm water levels and permeability of deeper soils.

5.4 Short-Term and Long-Term Discharge

Short-term construction dewatering will be required for the excavation of each individual building. The estimated preliminary dewatering rate for a single building excavation is 3,964 L/day, plus a 50,000 L/day contingency to account for surface water inputs and perched seepage. Therefore, the total dewatering estimate is 53,964 L/day. It is expected that sump pumping will be able to manage this rate of dewatering. Significant long-term seepage is not expected for this site due to the low permeability of the Halton Till. It is important to note that these dewatering estimates are both preliminary and conceptual based on the current understanding of the design, and will change as the design progresses.

A groundwater chemistry sample will be required for discharge from construction dewatering. The groundwater chemistry sample must be analyzed for a suite of chemical parameters and compared to Peel Region storm/ sanitary sewer discharge guidelines.

5.5 Additional Hydrogeological Investigations

Additional hydrogeological investigations are recommended for this site to assess the dewatering requirements for each individual building including additional groundwater level collection events, and the completion of hydraulic tests on additional shallow/ deeper wells. It is also recommended that a groundwater sample be collected from each building footprint location to determine if groundwater chemistry meets Peel Region storm/ sanitary sewer discharge guidelines.

6. Closure

This report was prepared and reviewed by the undersigned:

Prepared By:

Nolan Boyes, M.Sc., G.I.T. Environmental Scientist Reviewed

By:

Jason Cole, M.Sc., P.Geo.

R. JASON COLE PRACTISING MEMBER 1902



7. Statement of Limitations

The extent of this study was limited to the specific scope of work for which we were retained and that is described in this report. Palmer has assumed that the information provided by the client or any secondary sources of information are factual and accurate. Palmer accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or negligent acts from relied upon data. Judgment has been used by Palmer in the interpretation of the information provided but subsurface physical and chemical characteristics may differ from regional scale geology mapping and vary between or beyond well/borehole locations given the inherent variability in geological conditions.

Palmer is not a guarantor of the geological or groundwater conditions at the subject site, but warrants only that its work was undertaken and its report prepared in a manner consistent with the level of skill and diligence normally exercised by competent geoscience professionals practicing in the Province of Ontario. Our findings, conclusions and recommendations should be evaluated in light of the limited scope of our work.

The information and opinions expressed in the Report are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT PALMER'S WRITTEN CONSENT AND SUCH USE SHALL BE ON SUCH TERMS AND CONDITIONS AS PALMER MAY EXPRESSLY APPROVE. Ownership in and copyright for the contents of the Report belongs to Palmer. Any use which a third party makes of the Report is the sole responsibility of such third party. Palmer accepts no responsibility whatsoever for damages suffered by any third party resulting from use of the Report without Palmer's express written permission. Should the project design change following issuance of the Report, Palmer must be provided the opportunity to review and revise the Report in light of such alteration or variation.



8. References

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The Ontario Geological Survey. 2003. Surficial Geology of Southern Ontario



Appendix A - Conceptual Design

12599 Hwy 50 Ltd.



APPLICATIONS FOR OFFICIAL PLAN AMENDMENT & ZONING BY-LAW AMENDMENT PROPOSED MIXED USE DEVELOPMENT

12563 & 12599 HWY 50, 2 INDUSTRIAL ROAD BOLTON, ON



12599 HWY 50 LTD. 91 PARR BOULEVARD BOLTON, ON, L7E 4E3 ARCHITECT

E. info@srnarchitects.com

CIVIL ENGINEER **CF CROZIER &** SRN ARCHITECTS INC. **ASSOCIATES INC** 8395 JANE ST. SUITE 202 VAUGHAN, ON, L4K 5Y2 2800 HIGH POINT DR. SUITE T.905.417.5515 Ext.426 100 MILTON, ON L9T 6P4 F. 905.417.5517 T. 905.875.0026

ACOUSTIC ENGINEER **HGC ENGINEERING** 2000 ARGENTIA RD. PLAZA 1, SUITE 203 MISSISSAUGA, ON L5N 1P7 T. 905-826-4044 F. 905-826-4940

TRAFFIC ENGINEER **BA GROUP** 45 St. Clair Ave W. SUITE 300 Toronto, ON M4V 1K9 T. 416.961.7110

SITE SURVEYOR **ERTL SURVEYORS** 1234 REID STREET, UNIT 10 RICHMOND HILL, ON L4B 1C1 T. 905-731-7834 F. 905-731-7852 F. 416.961.9807 E. INFO@ES-OLS.COM E. bagroup@bagroup.com

LANDSCAPE ARCHITECT STRYBOS BARRON KING 5770 HURONTARIO ST. SUITE 320 MISSISSAUGA ON L5R 3G5 T: 416.695.4949

ARCHEOLOGIST **ASI HERITAGE** 528 BATHURST STREET TORONTO, ON M5S 2P9 T. 416.966.1069 F. 416.966.9723 E. INFO@ASIHERITAGE.CA

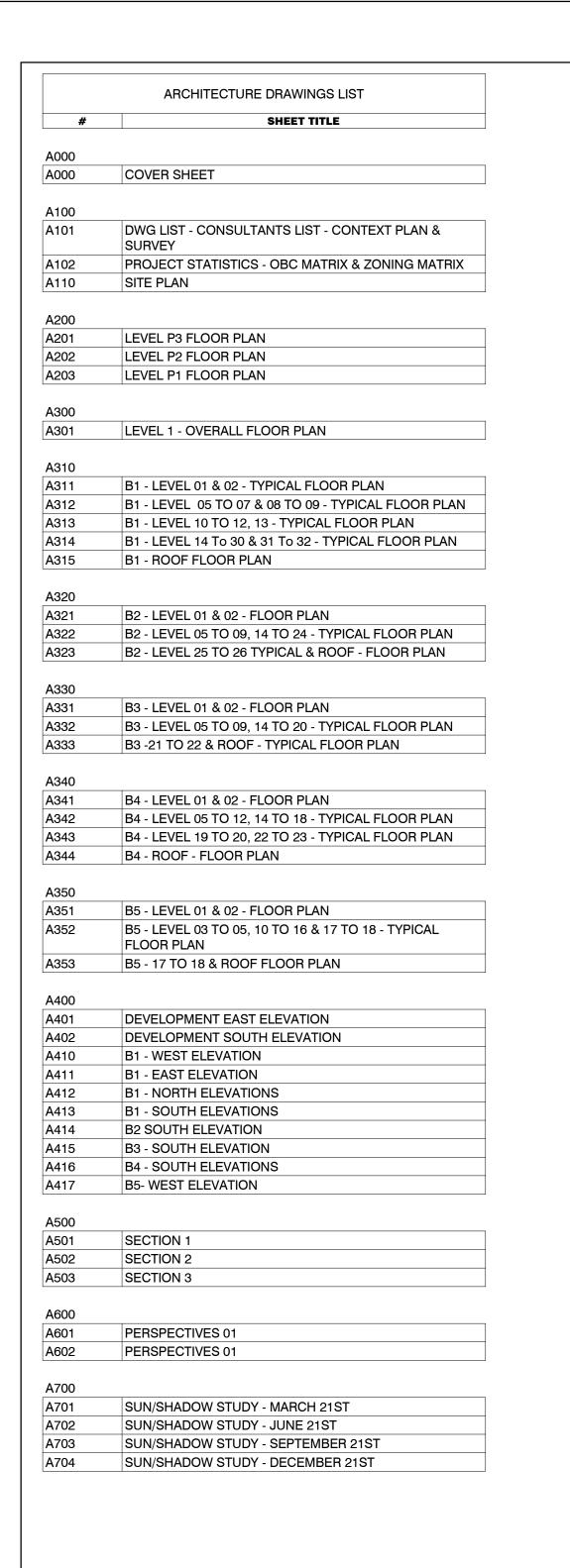
WIND ENGINEERING **GRADIENT WIND ENGINEERING INC.** 127 WALGREEN ROAD OTTAWA, ON KOA 1LO T. 613.836.0934 E. INFO@GRADIENTWIND.COM

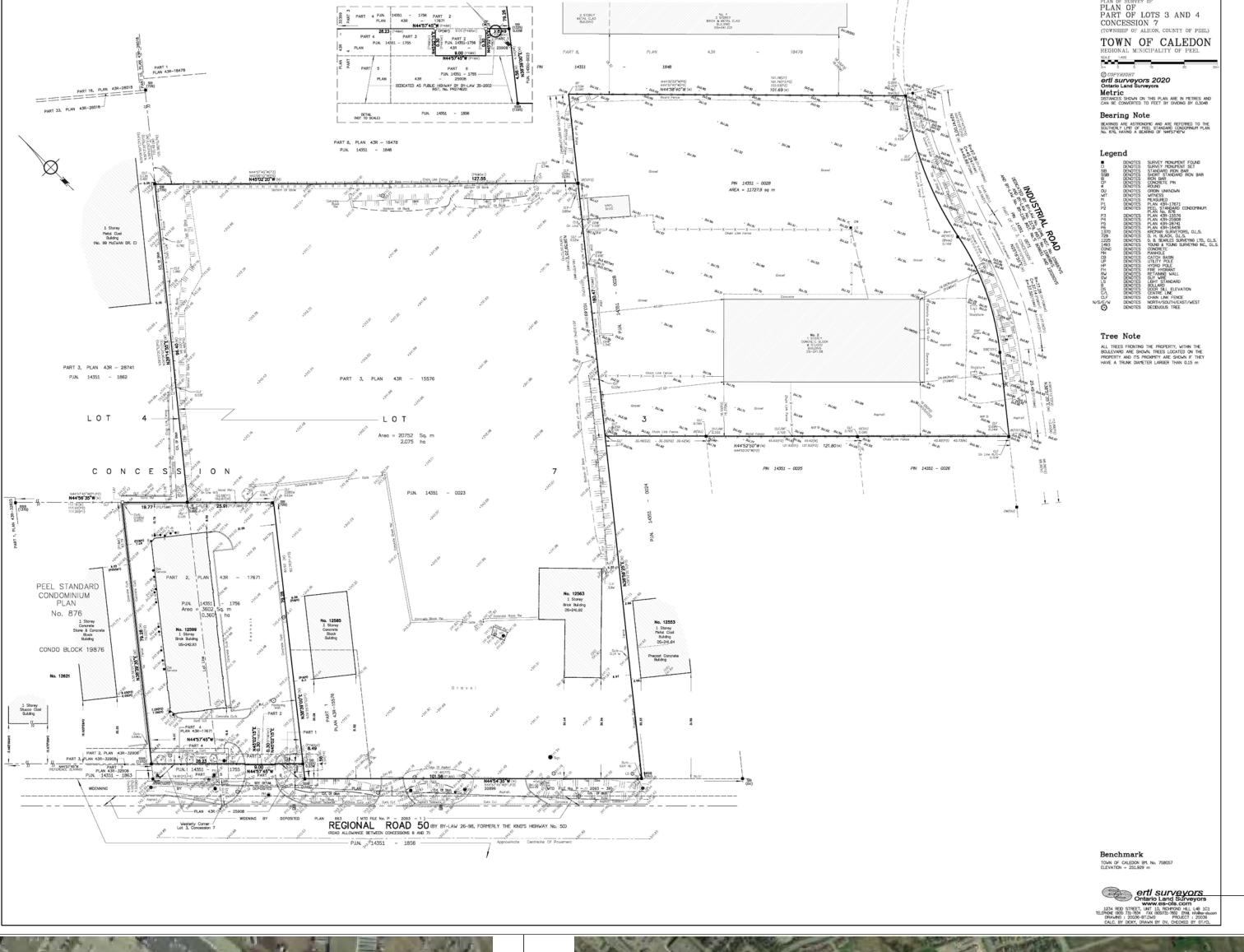
GEOTECHNICAL WATTERS ENVIRONMENTAL **GROUP INC.** 9135 KEELE ST, UNIT A1

F. 416.361.2410

CONCORD, ON L4K 0J4 T. 416.361.2407

RETAIL TATE ECONOMIC RESEARCH INC. 8 KING ST EAST, SUITE 1013 TORONTO, ON, M5C 1B5 T. 416.260.9884





TOPOGRAPHIC SURVEY 4

A101

NO: DATE: RE

NO: DATE: REVISION COMMENT:

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A R C H I T E C T S 8395 JANE ST. SUITE 202

A R C H I T E C T S 8395 JANE ST, SUITE 202 VAUGHAN, ONTARIO. L4K 5Y2 PHONE: 905.417.5515 FAX: 905.417.5517

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CLIENT:

12599 Hwy 50 Ltd.

MIXED USE DEVELOPMENT

12563 & 12599 HWY 50 BOLTON - ONTARIO DRADWOLLIST - CONSULTANTS LIST - CONTEXT PLAN &

SURVEY

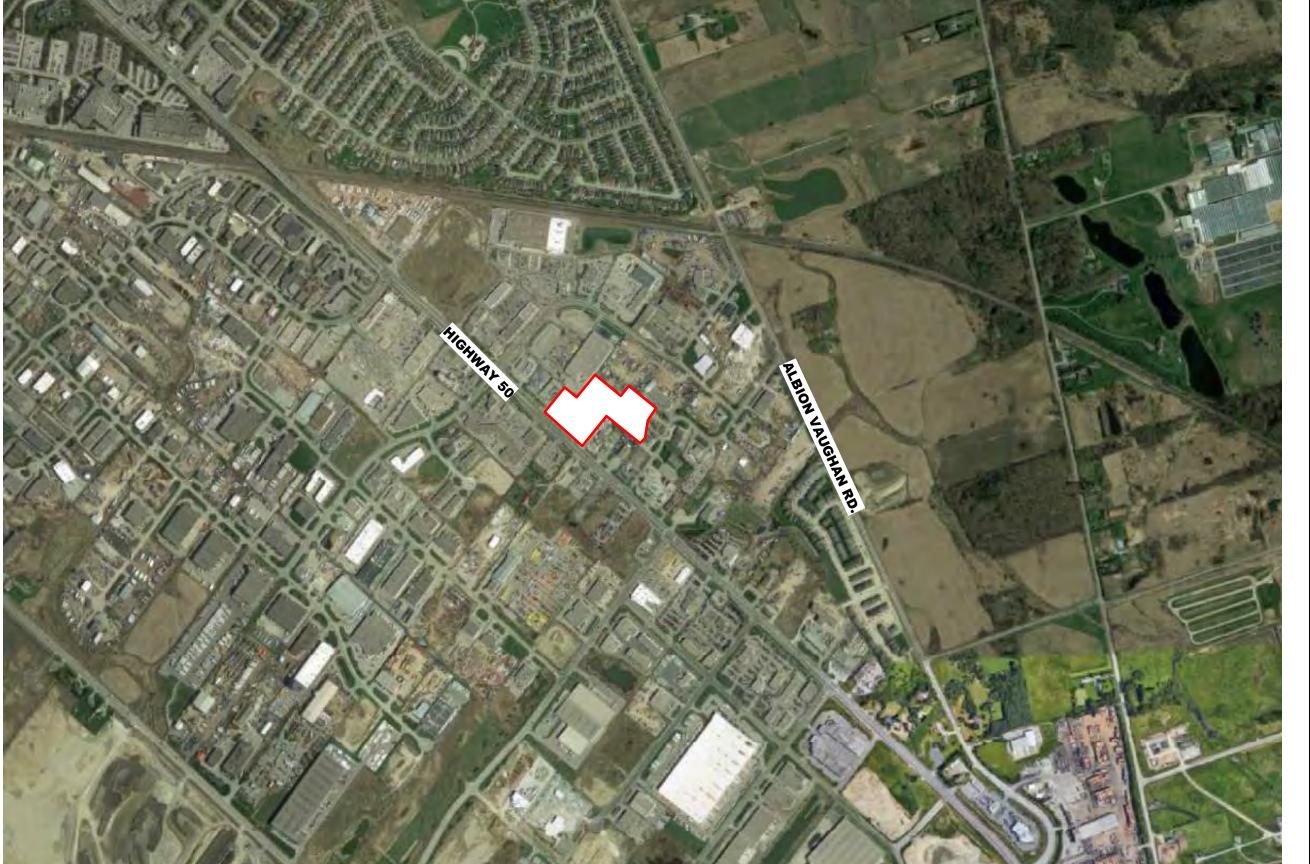
DATE: 12/09/20 SCALE: 1 : 1

DRAWN BY: EM/FK CHECKED BY: EM/GR

DRAWN BY: EM/FK CHECKED BY: EM/COMPROJECT NUMBER: DRAWING NUMBER: S20023 A101



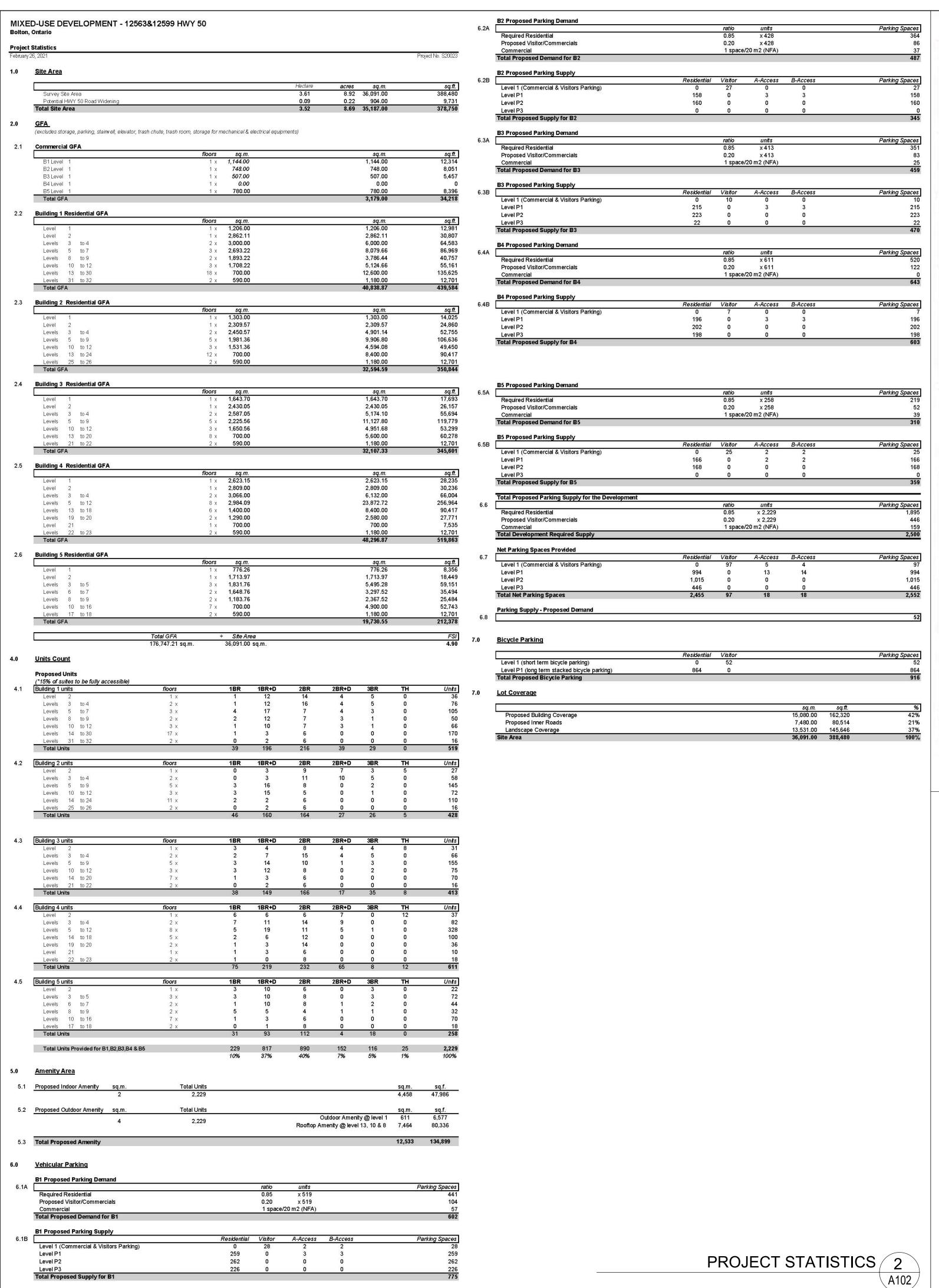
ENLARGED CONTEXT PLAN 2
A101



Context Plan Copy 1 1
Scale: 1:1 A101

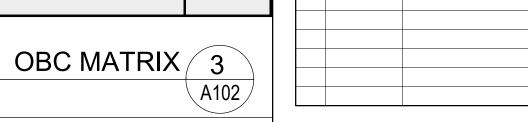
PROJECT DRAWINGS LIST 3

A101



S:	OBC Matrix 2 - Site Plan Approval SRN ARCHITECTS INC. 8395 JANE ST. SUITE 202 VAUGHAN, ON, L4K 5Y2 ITECTS 7.905.417.5515 Ext.426 F. 905.417.5517		
	Name of Project: MIXED USE DEVELOPMENT		
	Location: 12563 & 12599 HWY 50, BOLTON - ONTARIO	Geal must be si	igned to be valid
ltem	The Ontario Building Code 2012 Containing the Building Code Act and O. Reg 332/12 in effect Jan 1, 2014 Data Matrix Part 3 High Rise Residential Buildings		OBC Reference
1	Project Description: MIXED USE DEVELOPMENT		1.1.2
2	Major Occupancy(s): Group C - Residential occupancies Group E - Mercantile occupancies Group F3 - Medium hazard industrial occupancies (Storage Garage)		3:1.2:1.(1)
3	Subsidiary Occupancy(s) Group A2 - Assembly occupancies (Amenity Areas)		3.1.2.1.(1)
4	B1 3,3 B2 2,6 B3 2,9 B4 4,0	80.3 m ² 24.3 m ² 99.5 m ² 64.7 m ² 05.8 m ² 86.0 m ²	1.4.1.2.
5	B1 41 52 53 53 53 54 54 54 54 55 55 55 55 55 55 55 55 55	,747 m ² ,983 m ² ,343 m ² ,614 m ² ,297 m ² ,511 m ²	1.4 (1.2)
6	Number of Storeys Above grade Below grade B1 35 32 3 B2 28 26 2 B3 24 22 2 B4 26 23 3 B5 20 18 2		1.4.1.2. & 3.2.1.1
7	Number of streets/Fire Fighter Access	5	3.2.2.10. & 3.2.5
8	Building Classification. Group C - Residential occupancies Group E - Mercantile occupancies Group F3 - Medium hazard industrial occupancies (Storage Garage)		3.2.2.42. 3.2.2.57. 3.2.2.73
9	Sprinkler System Proposed ■ Required □ Not Required Proposed: ■ entire building □ selected compartments □ selected floor areas □ basement		3.2.2.2083
40	in lieu of roof rating none	42× =	3.2.2.17
10	Standpipe required Fire Alarm required	Yes Yes	3.2.9.

12	Water Service/Supply is Adequate High Building			Yes Yes	3.2.5.7. 3.2.6.		
13	Construction Restrictions		Nian	res combustible required			
15	Barrier Free Design		14011-	Yes	3.8		
13	Barrier Free Besign	Horizontal Assemblies FRR (Hours)	Listed Design No. or		5.0		
		Floors	Refer to A8 Schedule	200 Martin (200 100 100 100 100 100 100 100 100 100			
		Roof	Refer to A8 Schedule				
		Mezzanine n/a	Refer to A8 Schedule				
16	Required Fire Resistance Rating (FRR)	FRR of Supporting Members	Listed Design No. or		3.2.2.20 83. & 3.2.1.4.		
		Floors	Refer to A8 Schedule	Tech production in 1992 occupied medicine — 9 construction control con-			
		Roof	Refer to A8 Schedule				
		Mezzanine n/a	Refer to A8 Schedule				
	Interior Fire Separation Requirements	MOZZKIIIO II/K	Keler to Ao dolledale	Fire-Resistance	3.3.		
	Eixt stairs shafts			Rating 2 hours	3.4.4.1.(1)		
	Elevator shafts			1.5 hours	3.5.3.1.(1)		
	Firefighter's Elevator Shaft			2 hours	3.5.3.1.(1)		
	Garabage Chute Shaft			2 hours 2* hours	3.6.3.3.(2)		
	Garabage Chute intake room			1 hours	3.6.3.3.(2)		
	Electrical Closet			1 hours	3.6.2.1.(5)		
	Electrical Closet with Life Safety	/ Circuite/Equipement		2 hours	3.0.2.1.(0)		
	Emergency Generator Room	2 hours	3.2.7.8.(3)				
		Central Alarm & Control Facility					
	Garage Level Elevator Lobby Ve			2 hours 2 hours	3.2.7.8.(3) 3.2.6		
	592	Vertical Service Spaces					
17	, i	Residential Public Corridor					
	Garage to any other occupancy	(including storage room)		1 hours 1.5 hours	3.3.1.4.(1) 3.3.5.6.(1)		
	Residential to assembly occupa			1.5 Hours	3.1.3.1.(1)		
	Garbage Room	2** hours	3.6.3.3.(9)				
	cove	Service Room - No Fuel Fired Equipment					
	Service Room - with Fuel Fired			1 hours 2 hours	3.6.2.1.(3) 3.6.2.1.(1)		
	Storage Locker Room	Ечиринен		1.5** hours	3.3.4.3.(2)		
	Transformer Room			3 hours	3.6.2.8.(1)		
	Residential Suite-to-Suite			1 hours	3.3.4.2.(1)		
	Janitor Rooms			1 hours	3.3.1.20.(1)		
	Electrical Equipment Vault			3 hours	3.6.2.8.(1)		
	· · · · · · · · · · · · · · · · · · ·	discharge room (1 hour otherwise)		- 110410	0.0.2.0.(1)		
	** Sprinklered						
	Spatial Separation						
	Refer to elevation drawings for spatial sepa	aration requirements					
18	Construction of Exterior	*			3.2.3.		
	Refer to A8 Schedule						
	Barrier-free Design				3.8.		
	In a Group C major occupancy apartment be shall be provided with a barrier-free path of		l suites				
		e bedroom at the same level, and					
19	(b) the doorway to at least on	e bathroom,			3.8.2.1.(4)		
	(i) having an	area not less than 4.5 m2 at the same leve	el, and				
	*	to Sentence 9.6.3.3.(1).					



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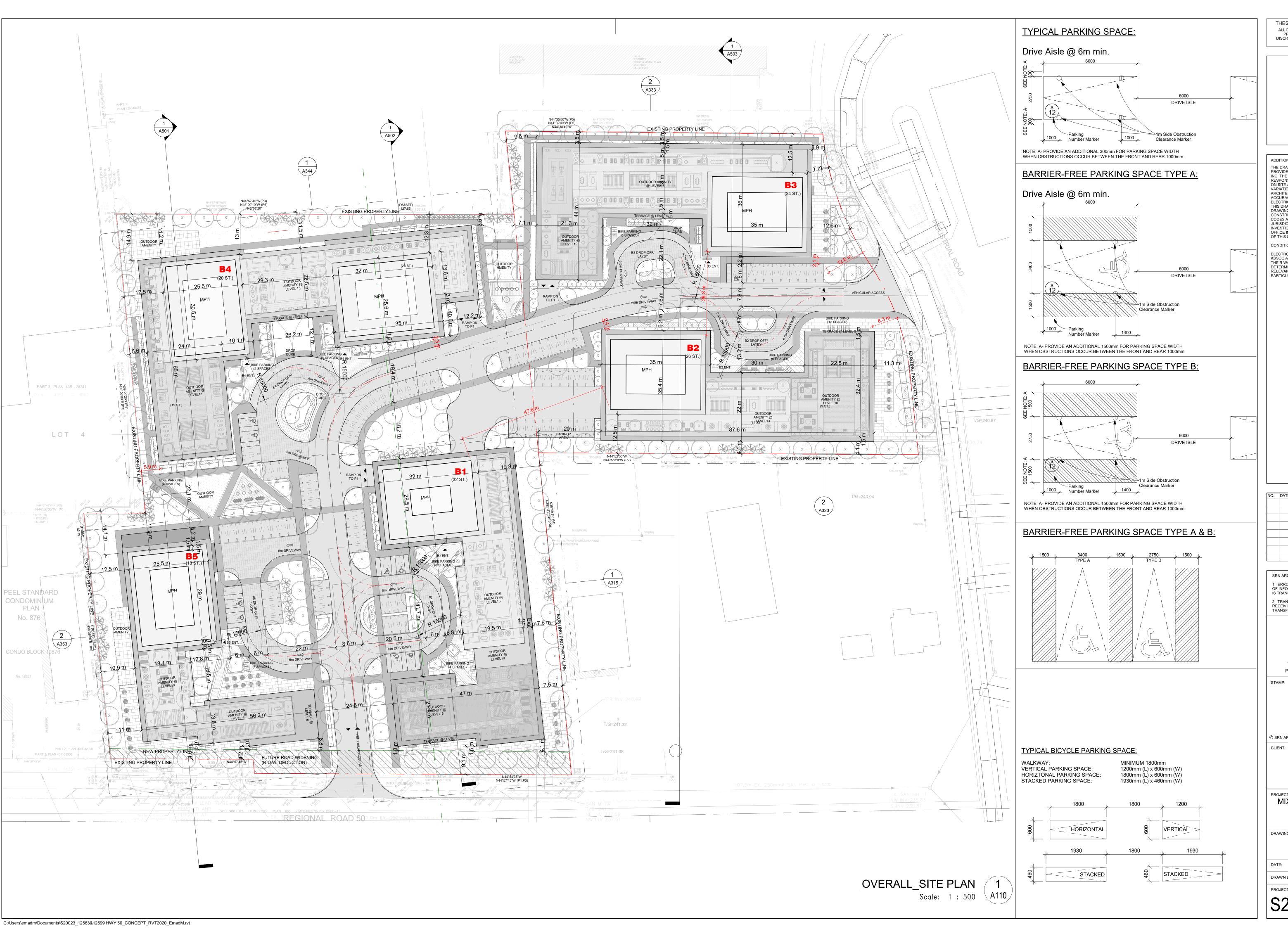
12599 Hwy 50 Ltd.

MIXED USE DEVELOPMENT 12563 & 12599 HWY 50 BOLTON - ONTARIO

PROJECT STATISTICS - OBC MATRIX & ZONING MATRIX

DATE: 12/09/20 CHECKED BY: EM/GR DRAWN BY: EM/FK DRAWING NUMBER: A102

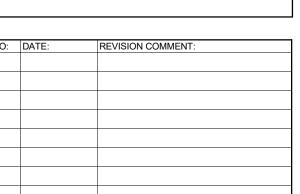
ZONING MATRIX	(1)	\
	A102	_



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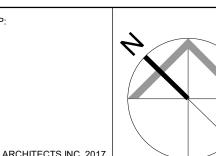
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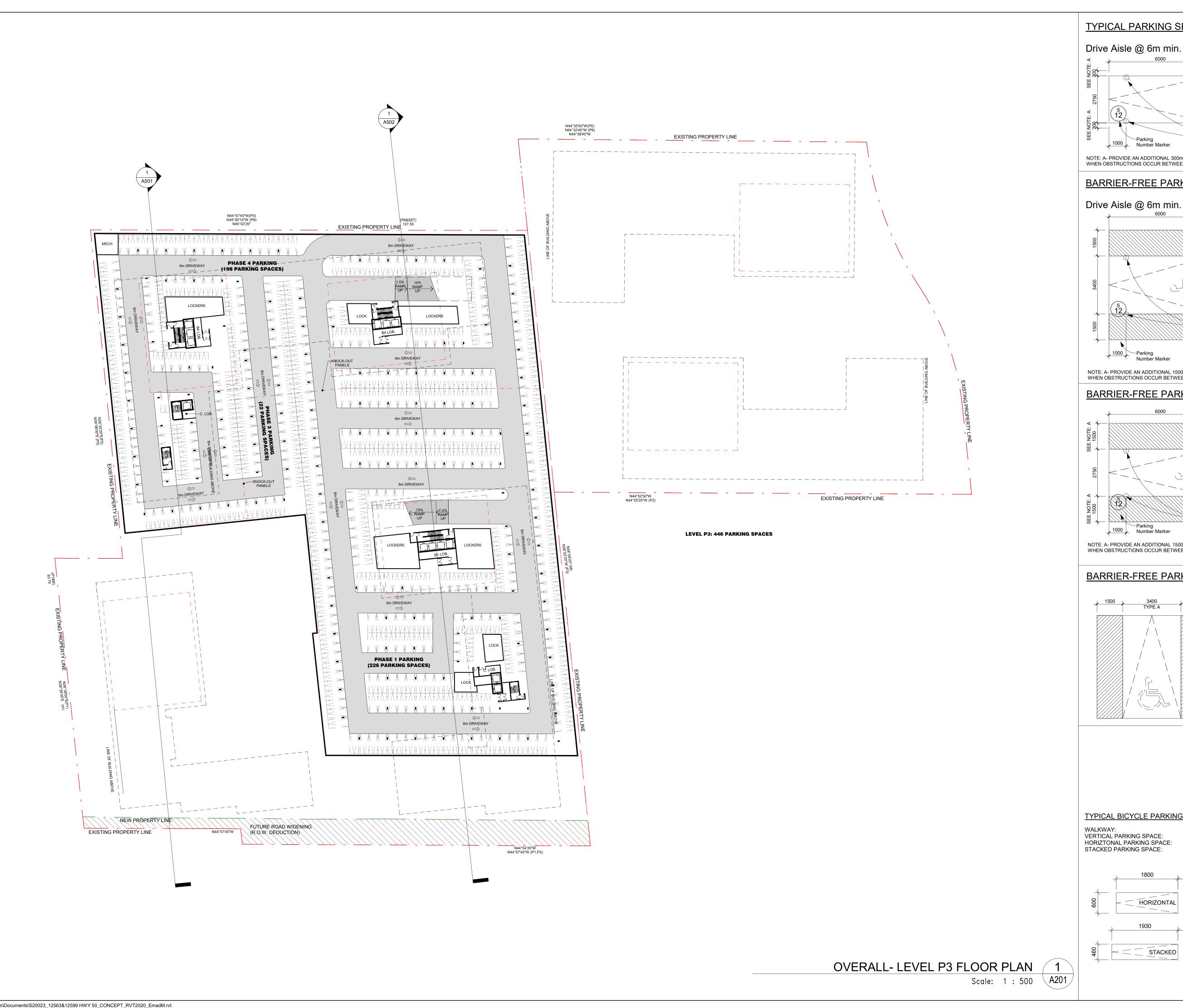
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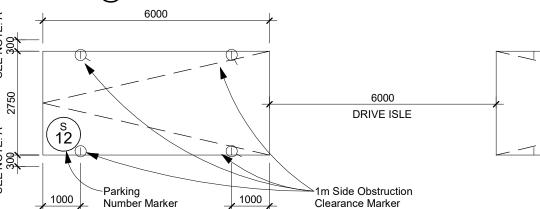
SITE PLAN

DATE: 12/09/20 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR DRAWING NUMBER:



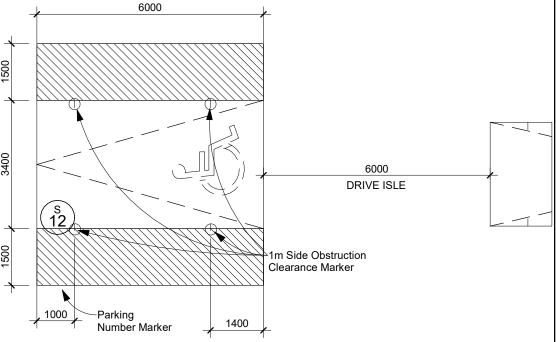
TYPICAL PARKING SPACE:

Drive Aisle @ 6m min.



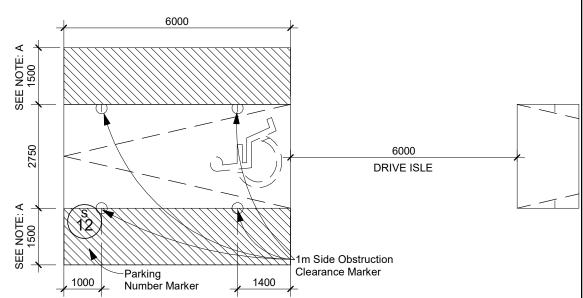
NOTE: A- PROVIDE AN ADDITIONAL 300mm FOR PARKING SPACE WIDTH WHEN OBSTRUCTIONS OCCUR BETWEEN THE FRONT AND REAR 1000mm

BARRIER-FREE PARKING SPACE TYPE A:



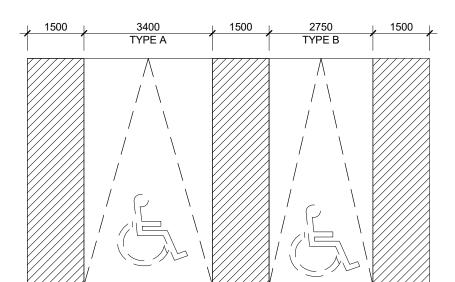
NOTE: A- PROVIDE AN ADDITIONAL 1500mm FOR PARKING SPACE WIDTH WHEN OBSTRUCTIONS OCCUR BETWEEN THE FRONT AND REAR 1000mm

BARRIER-FREE PARKING SPACE TYPE B:

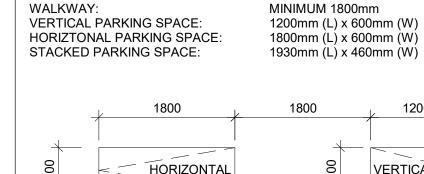


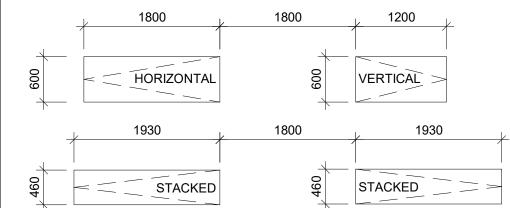
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BARRIER-FREE PARKING SPACE TYPE A & B:

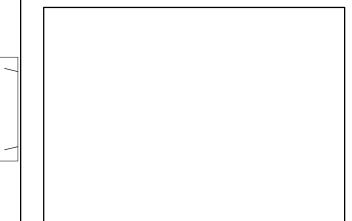


TYPICAL BICYCLE PARKING SPACE:





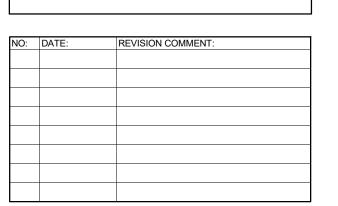
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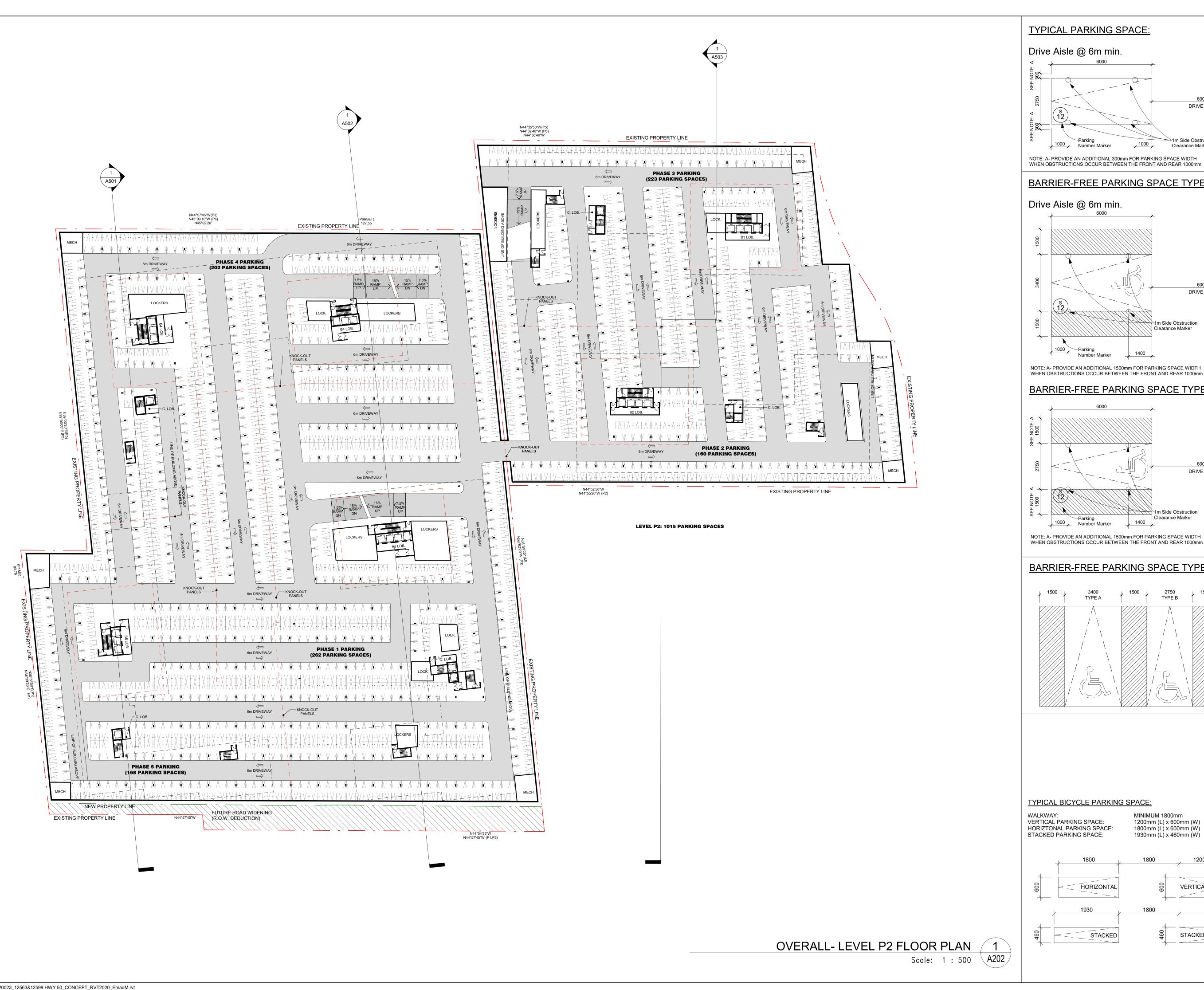
12599 Hwy 50 Ltd.

MIXED USE DEVELOPMENT

12563 & 12599 HWY 50 BOLTON - ONTARIO

LEVEL P3 FLOOR PLAN

DATE: 12/09/20 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR DRAWING NUMBER:

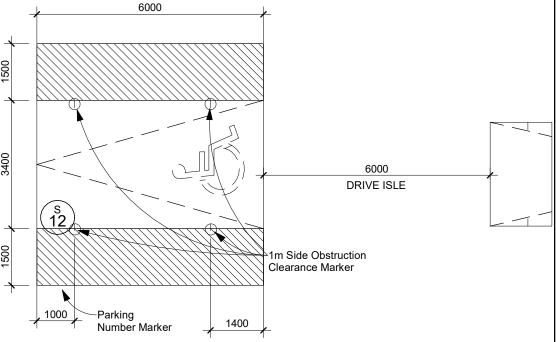


TYPICAL PARKING SPACE:

DRIVE ISLE

NOTE: A- PROVIDE AN ADDITIONAL 300mm FOR PARKING SPACE WIDTH WHEN OBSTRUCTIONS OCCUR BETWEEN THE FRONT AND REAR 1000mm

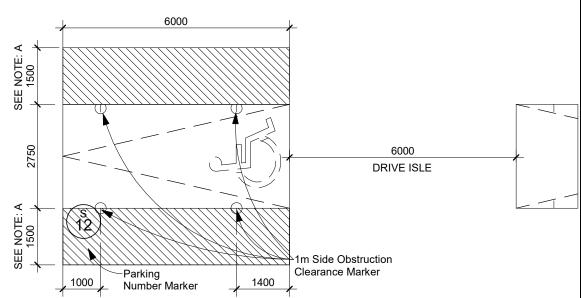
BARRIER-FREE PARKING SPACE TYPE A:



²1m Side Obstruction

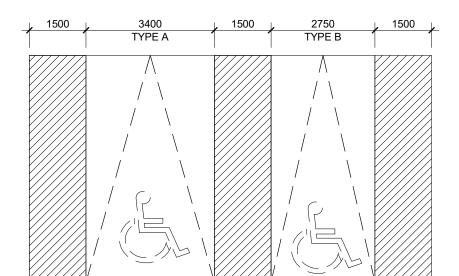
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BARRIER-FREE PARKING SPACE TYPE B:

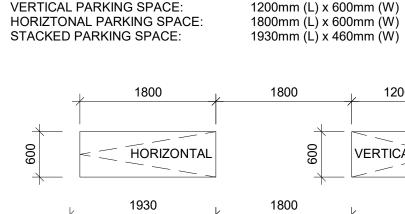


NOTE: A- PROVIDE AN ADDITIONAL 1500mm FOR PARKING SPACE WIDTH

BARRIER-FREE PARKING SPACE TYPE A & B:



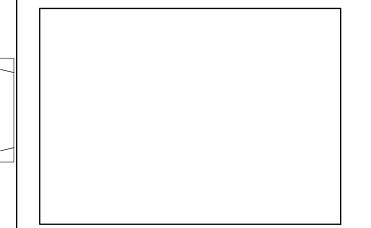
TYPICAL BICYCLE PARKING SPACE:



STACKED

MINIMUM 1800mm

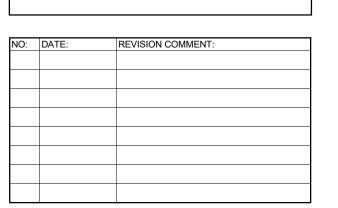
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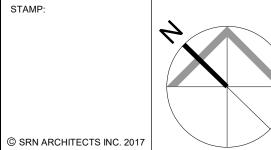
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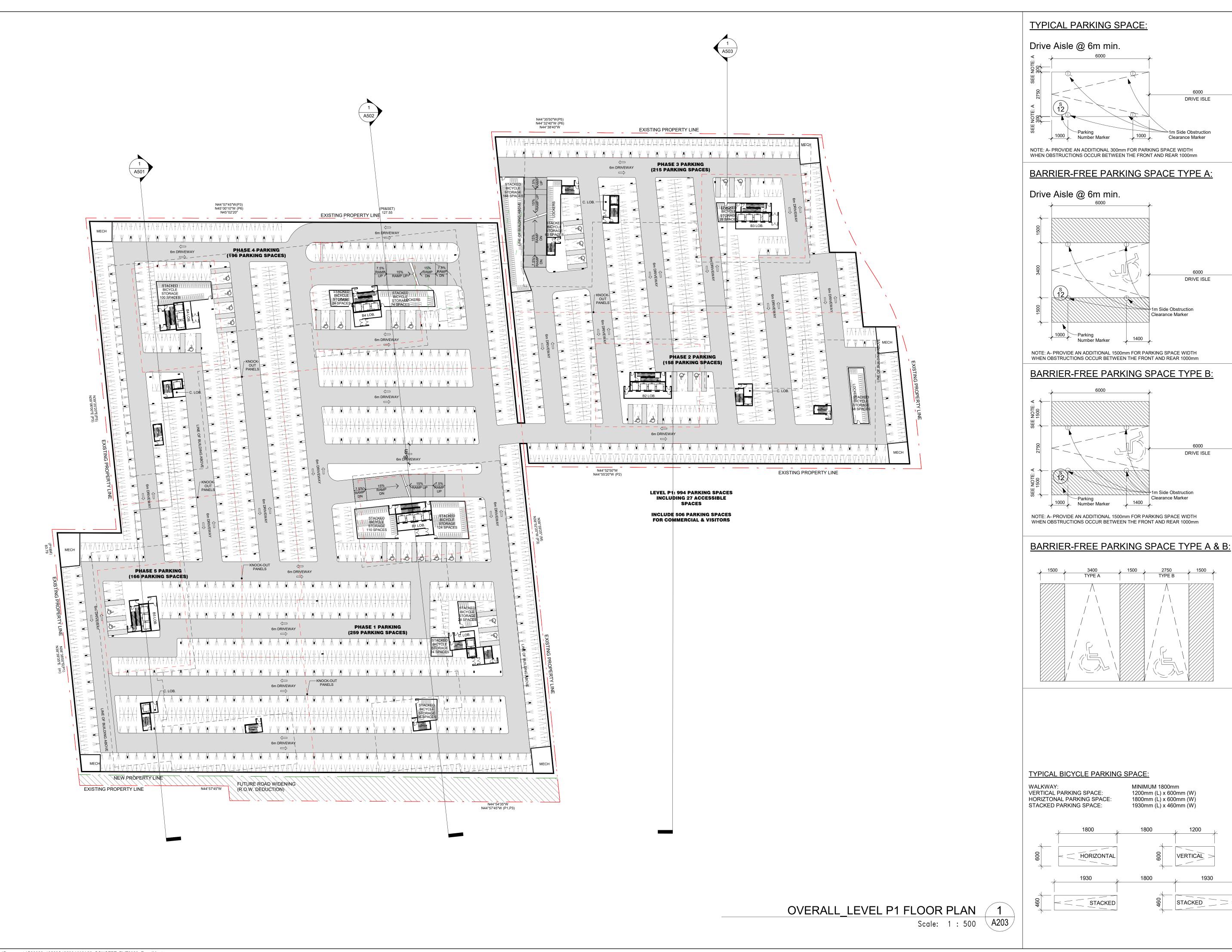
12599 Hwy 50 Ltd.

MIXED USE DEVELOPMENT 12563 & 12599 HWY 50

DRAWING TITLE: LEVEL P2 FLOOR PLAN

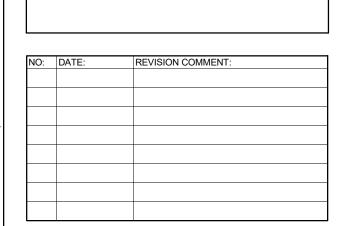
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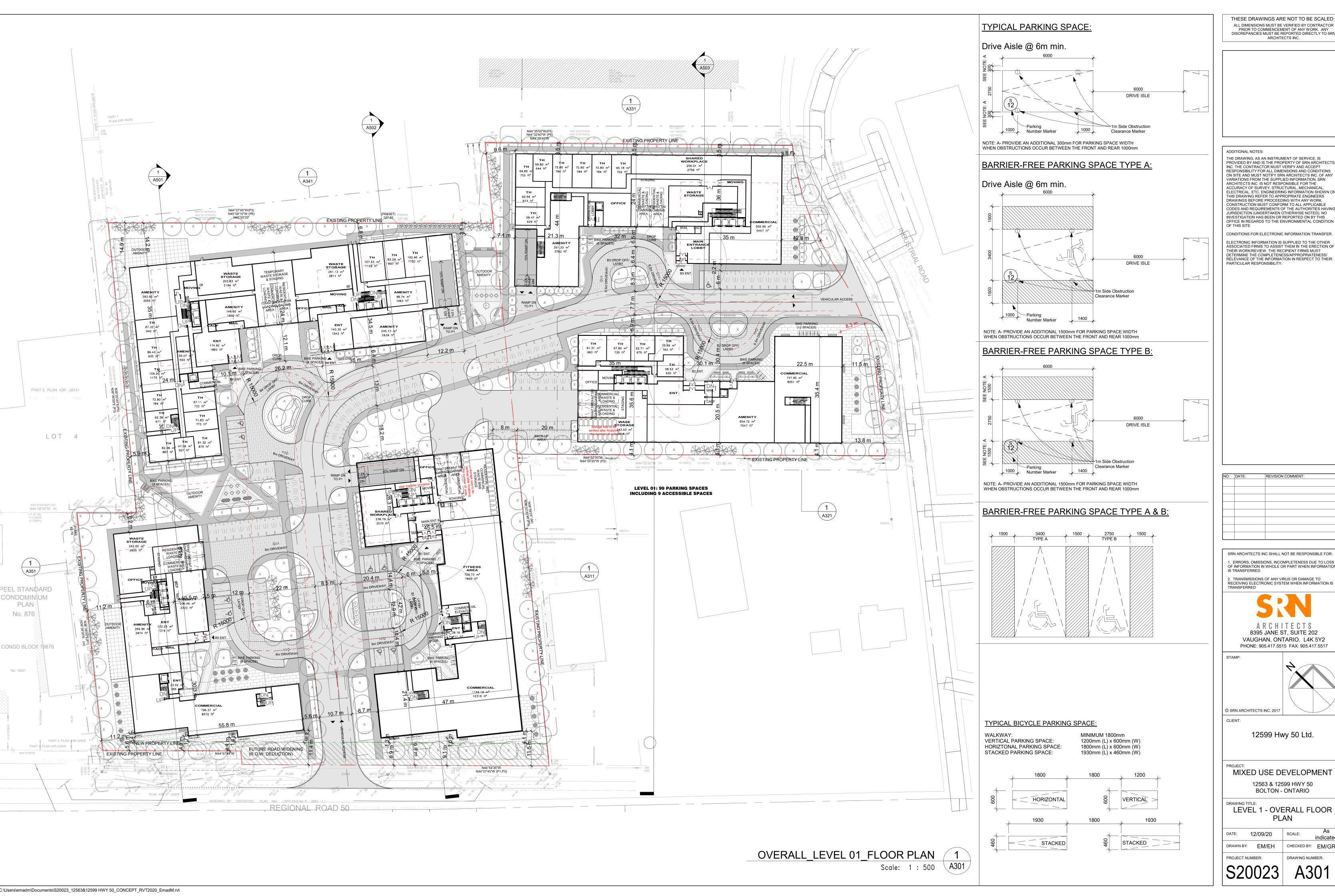
MIXED USE DEVELOPMENT

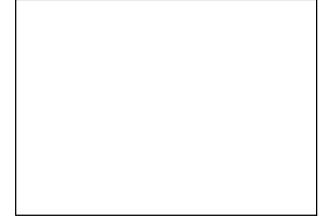
12563 & 12599 HWY 50 BOLTON - ONTARIO

DRAWING TITLE:

LEVEL P1 FLOOR PLAN

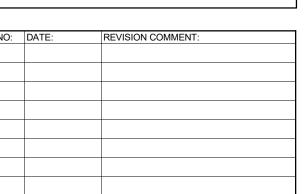
DATE: 12/09/20 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR DRAWING NUMBER:





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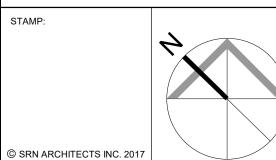
CONDITIONS FOR ELECTRONIC INFORMATION TRANSFER: ELECTRONIC INFORMATION IS SUPPLIED TO THE OTHER ASSOCIATED FIRMS TO ASSIST THEM IN THE ERECTION OF THEIR WORK/REVIEW. THE RECIPIENT FIRMS MUST DETERMINE THE COMPLETENESS/APPROPRIATENESS/
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2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS

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12563 & 12599 HWY 50

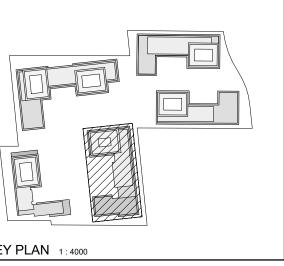
LEVEL 1 - OVERALL FLOOR PLAN DATE: 12/09/20 SCALE:

DRAWN BY: EM/EH CHECKED BY: EM/GR DRAWING NUMBER:

A301



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NO: DATE: REVISION COMMENT:			
	NO:	DATE:	REVISION COMMENT:

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

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B1 - LEVEL 01 & 02 - TYPICAL FLOOR PLAN

DATE: 12/09/20 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR DRAWING NUMBER:

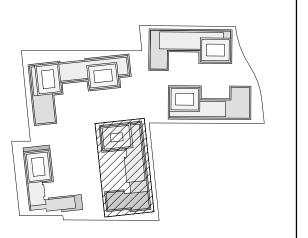
S20023 A311



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NO:	DATE:	REVISION COMMENT:	
	KEY PLAN	1 : 4000	

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: 1. ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION 2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS

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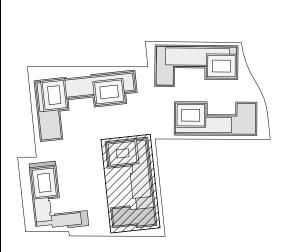
12563 & 12599 HWY 50 BOLTON - ONTARIO B1 - LEVEL 05 TO 07 & 08 TO

09 - TYPICAL FLOOR PLAN DATE: 02/22/21 SCALE: CHECKED BY: EM/GR

A312



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

A R C H I T E C T S 8395 JANE ST, SUITE 202

A R C H I T E C T S 8395 JANE ST, SUITE 202 VAUGHAN, ONTARIO. L4K 5Y2 PHONE: 905.417.5515 FAX: 905.417.5517

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BOLTON - ONTARIO

RAWING TITLE:
B1 - LEVEL 10 TO 12, 13 TYPICAL FLOOR PLAN

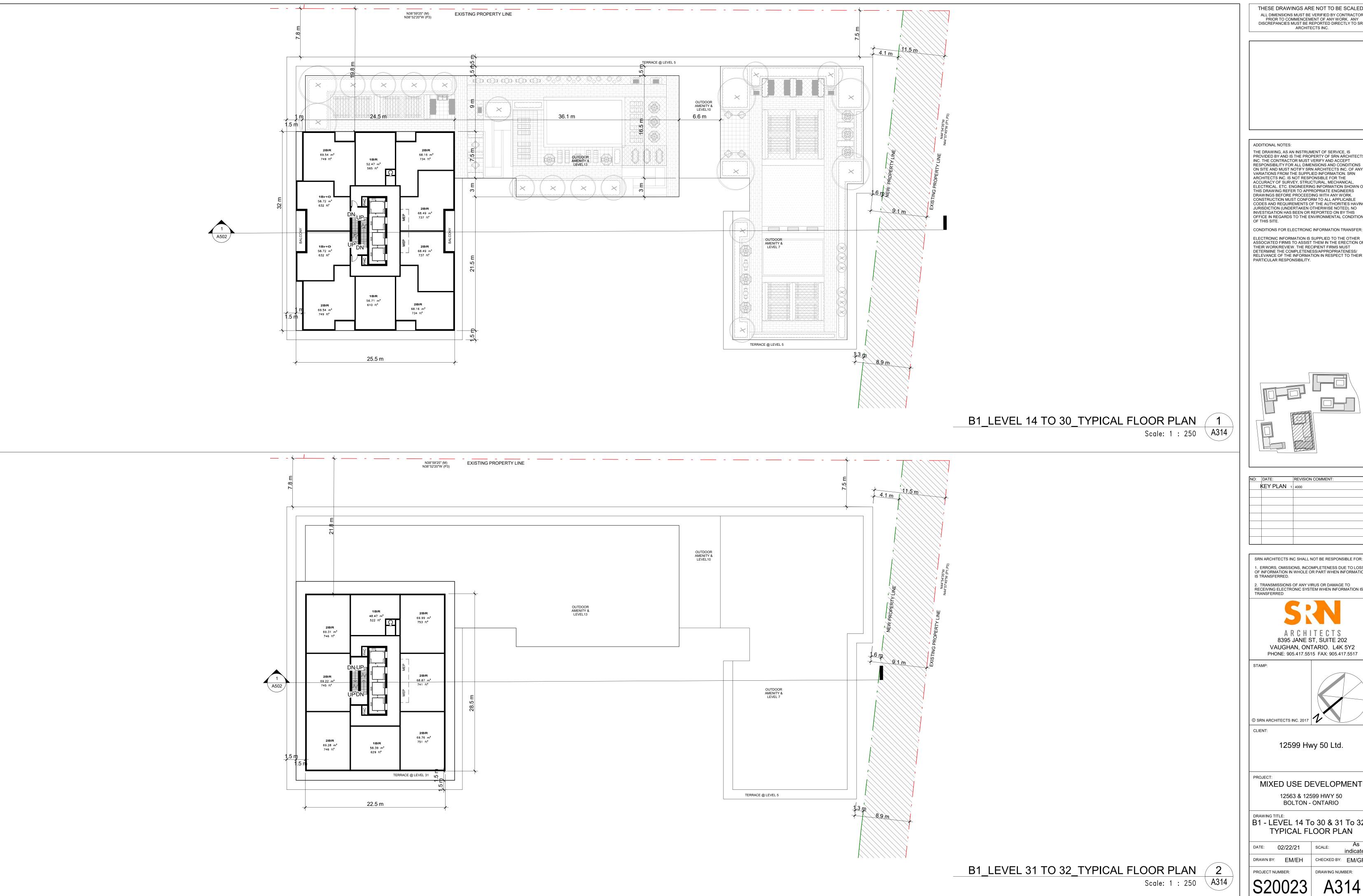
DATE: 12/17/20 SCALE: As indicated

DRAWN BY: EM/EH CHECKED BY: EM/GR

PROJECT NUMBER: DRAWING NUMBER:

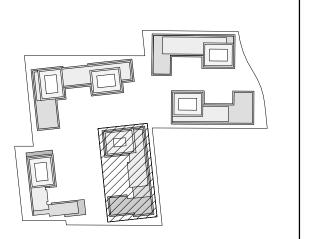
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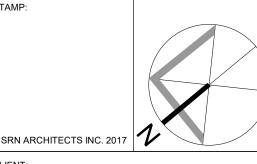


NO:	DATE:		REVISION COMMENT:
	KEY PLAN	1	: 4000

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

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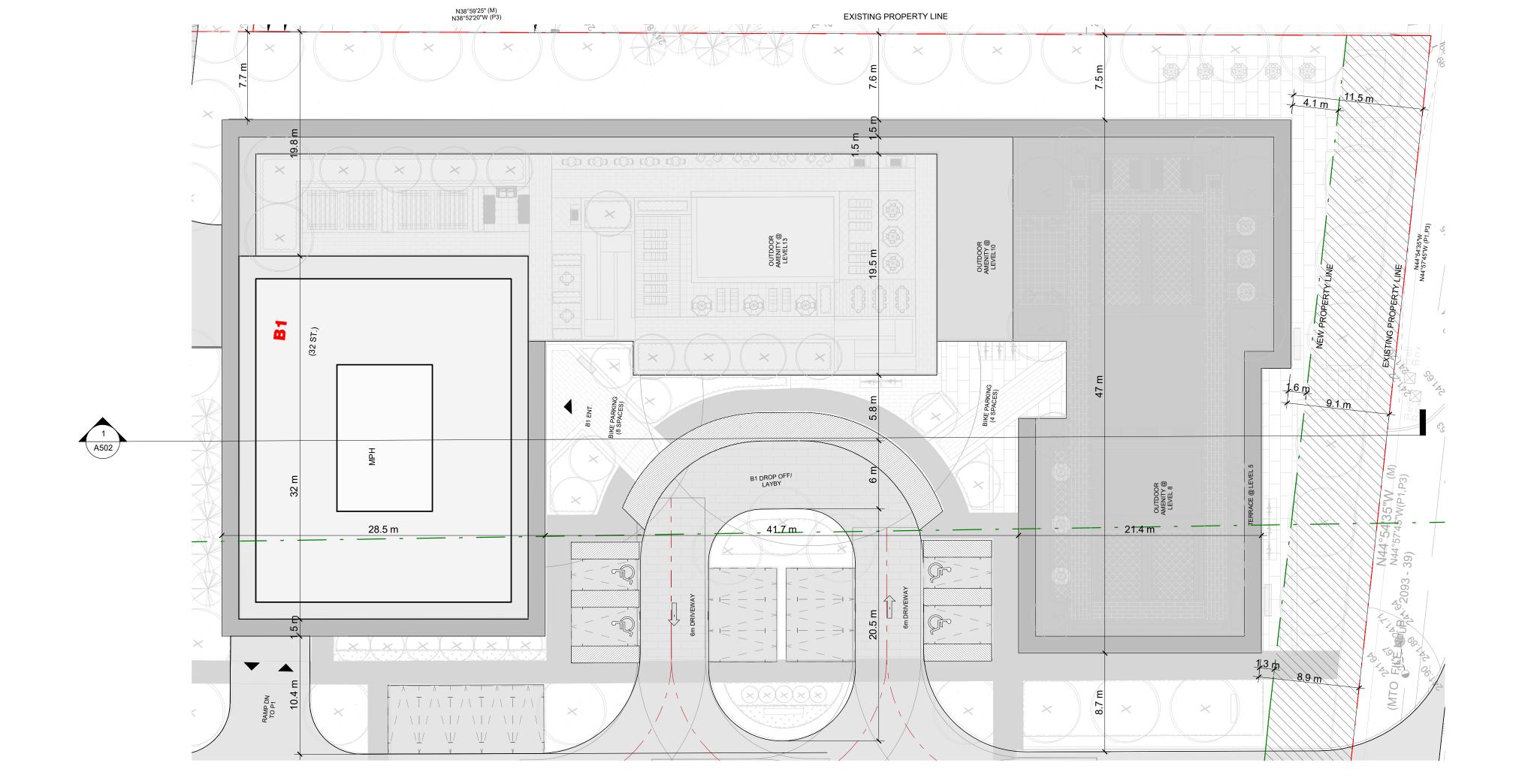


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12563 & 12599 HWY 50 BOLTON - ONTARIO

B1 - LEVEL 14 To 30 & 31 To 32 -TYPICAL FLOOR PLAN

S20023	A314		
PROJECT NUMBER:	DRAWING NUMBER:		
DRAWN BY: EM/EH	CHECKED BY: EM/GR		
DATE: 02/22/21	SCALE: As indicated		



ADDITIONAL NOTES:

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KEY PLAN 1:4000

NO:	DATE:	REVISION COMMENT:

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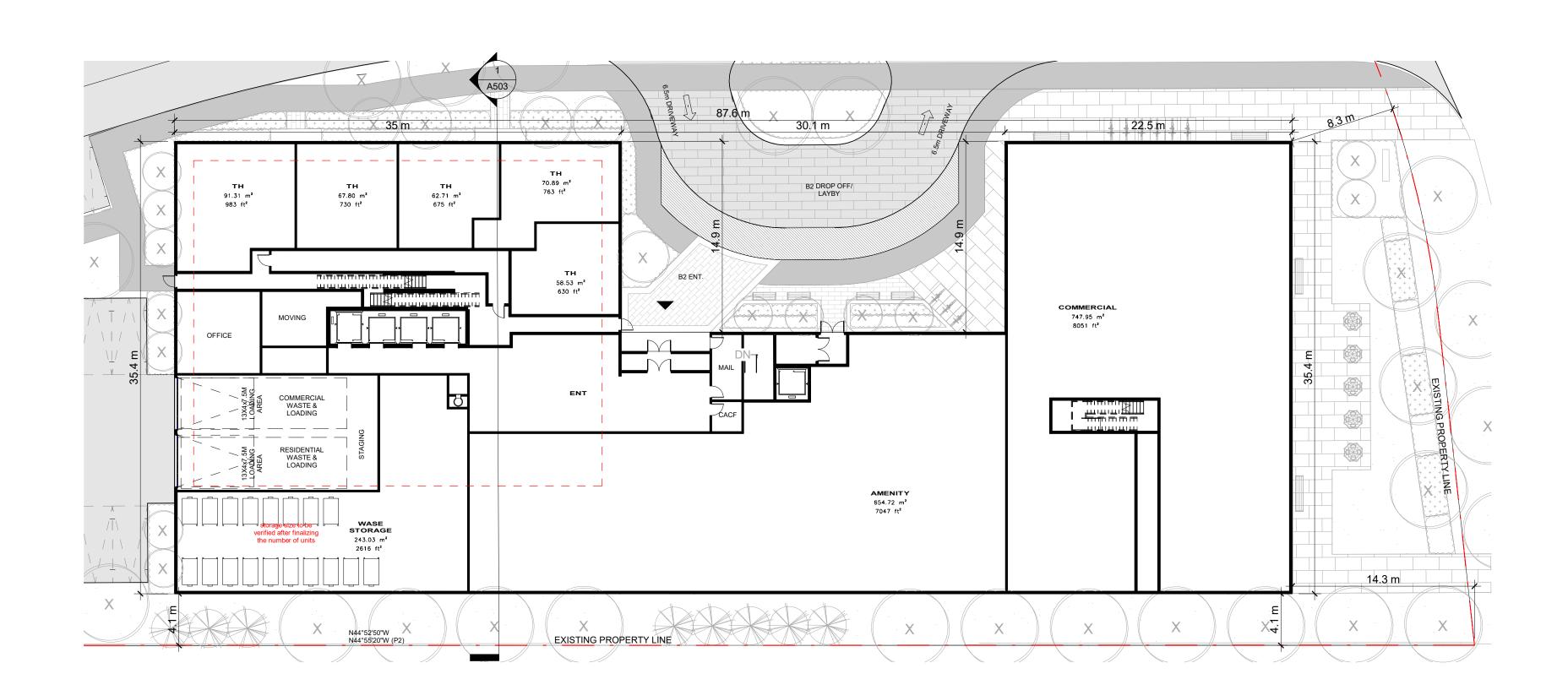
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B1 - ROOF FLOOR PLAN

DATE: 02/23/21 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:

A315

B1 ROOF PLAN FLOOR PLAN 1
Scale: 1: 250 A315



B2_LEVEL 01_FLOOR PLAN 1
Scale: 1 : 250 A321

REVISION COMMENT:

KEY PLAN 1:4000

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DRAWINGS BEFORE PROCEEDING WITH ANY WORK. CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING

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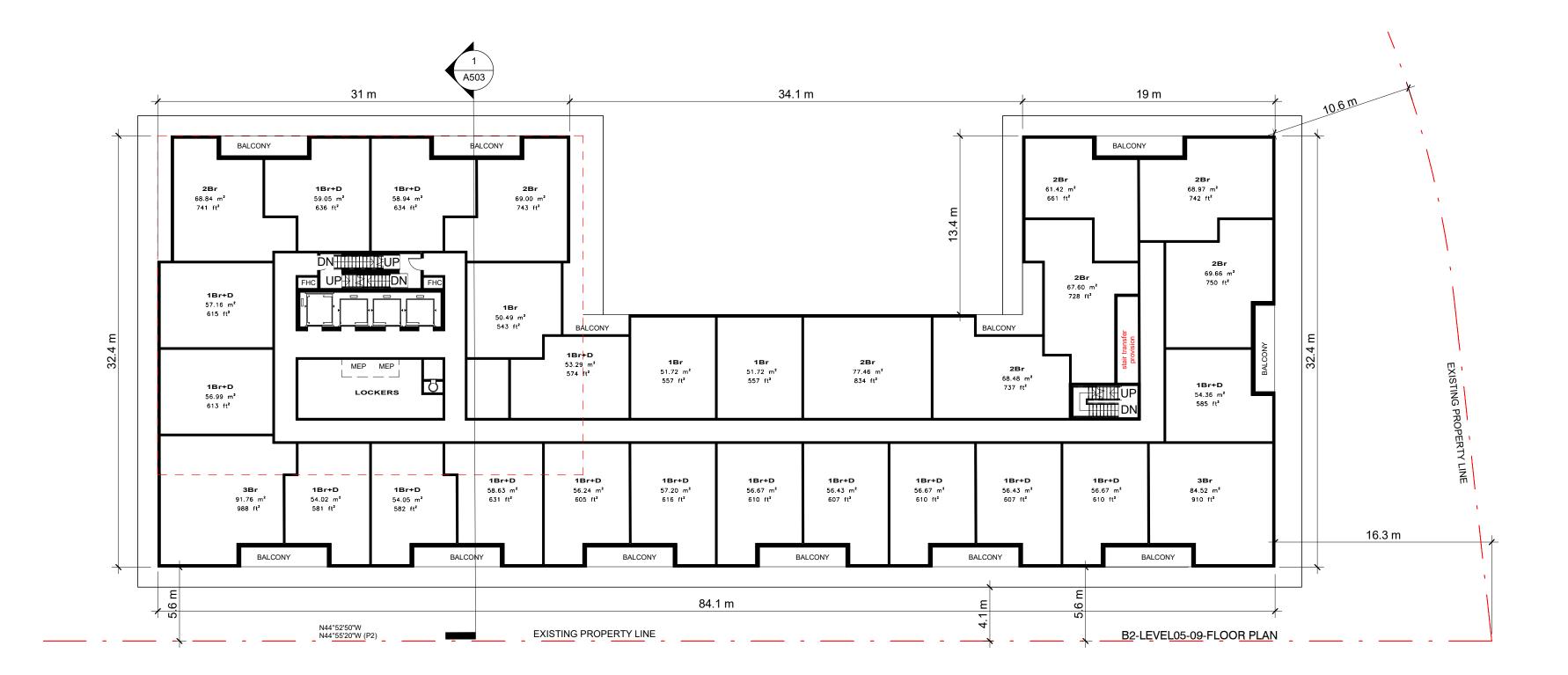
B2 - LEVEL 01 & 02 - FLOOR PLAN

DATE: 12/09/20 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:

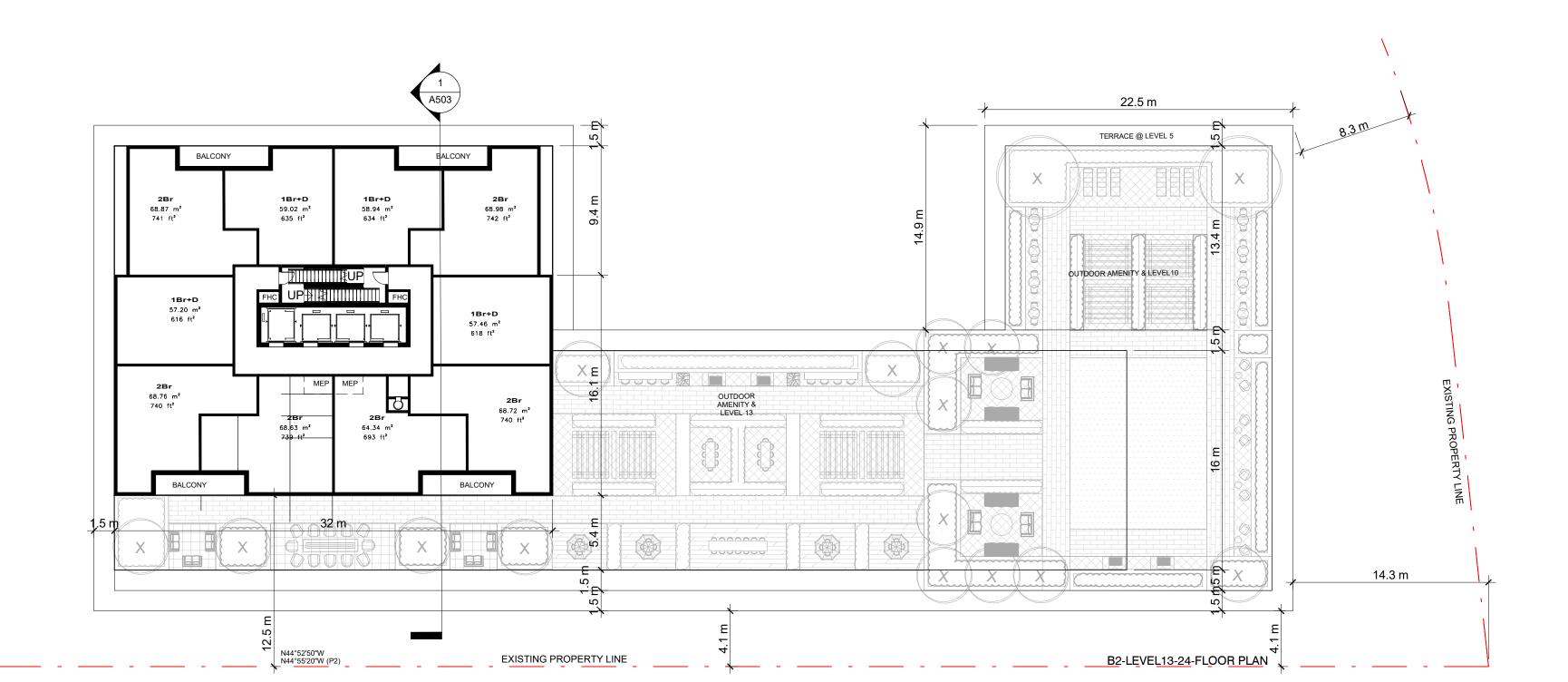
A321







B2_LEVEL 05 TO 09_TYPICAL FLOOR PLAN 1
Scale: 1 : 250 A322



B2_Level 14 TO 24_TYPICAL FLOOR PLAN 2
Scale: 1: 250 A322

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KEY PLAN 1:4000

NO:	DATE:	REVISION COMMENT:	

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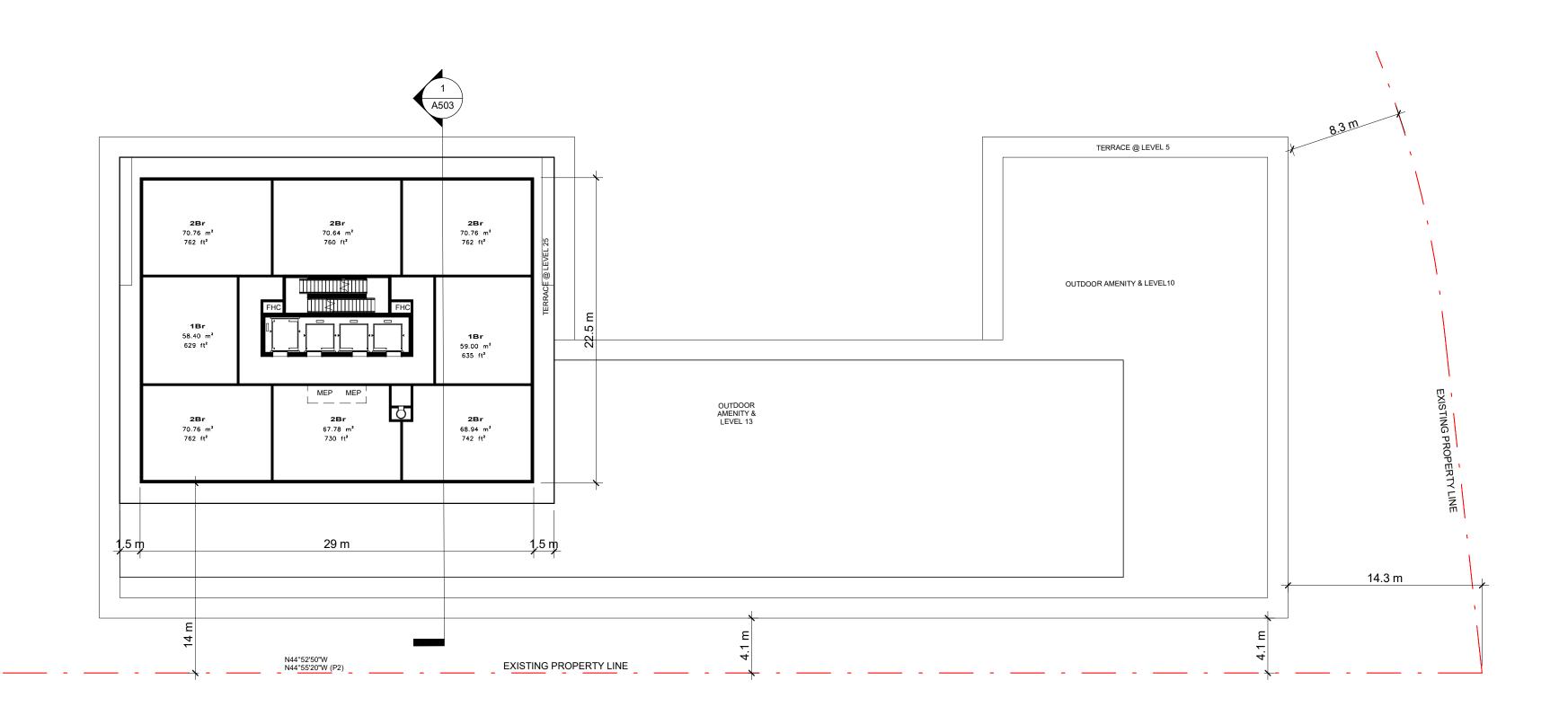
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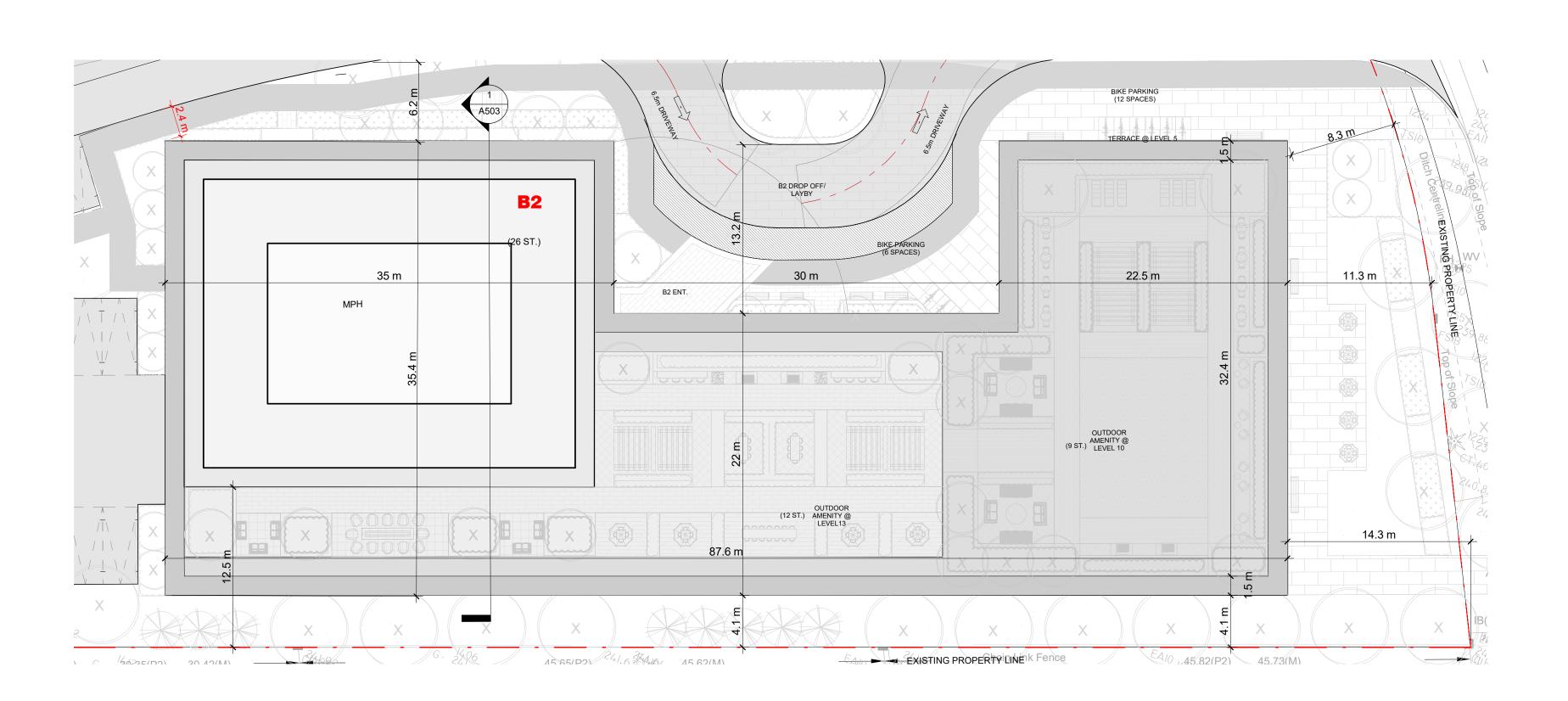
B2 - LEVEL 05 TO 09, 14 TO 24 -TYPICAL FLOOR PLAN

DATE: 12/09/20 CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:

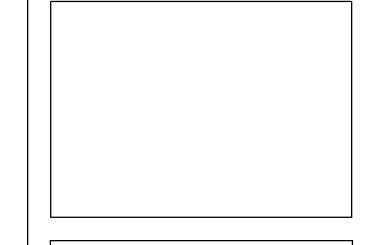


B2_Level 25 TO 26_TYPICAL FLOOR PLAN 1
Scale: 1: 250 A323





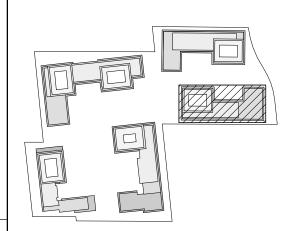
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NO:	DATE:	REVISION COMMENT:
	KEY PLAN 1	: 4000

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS
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2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS

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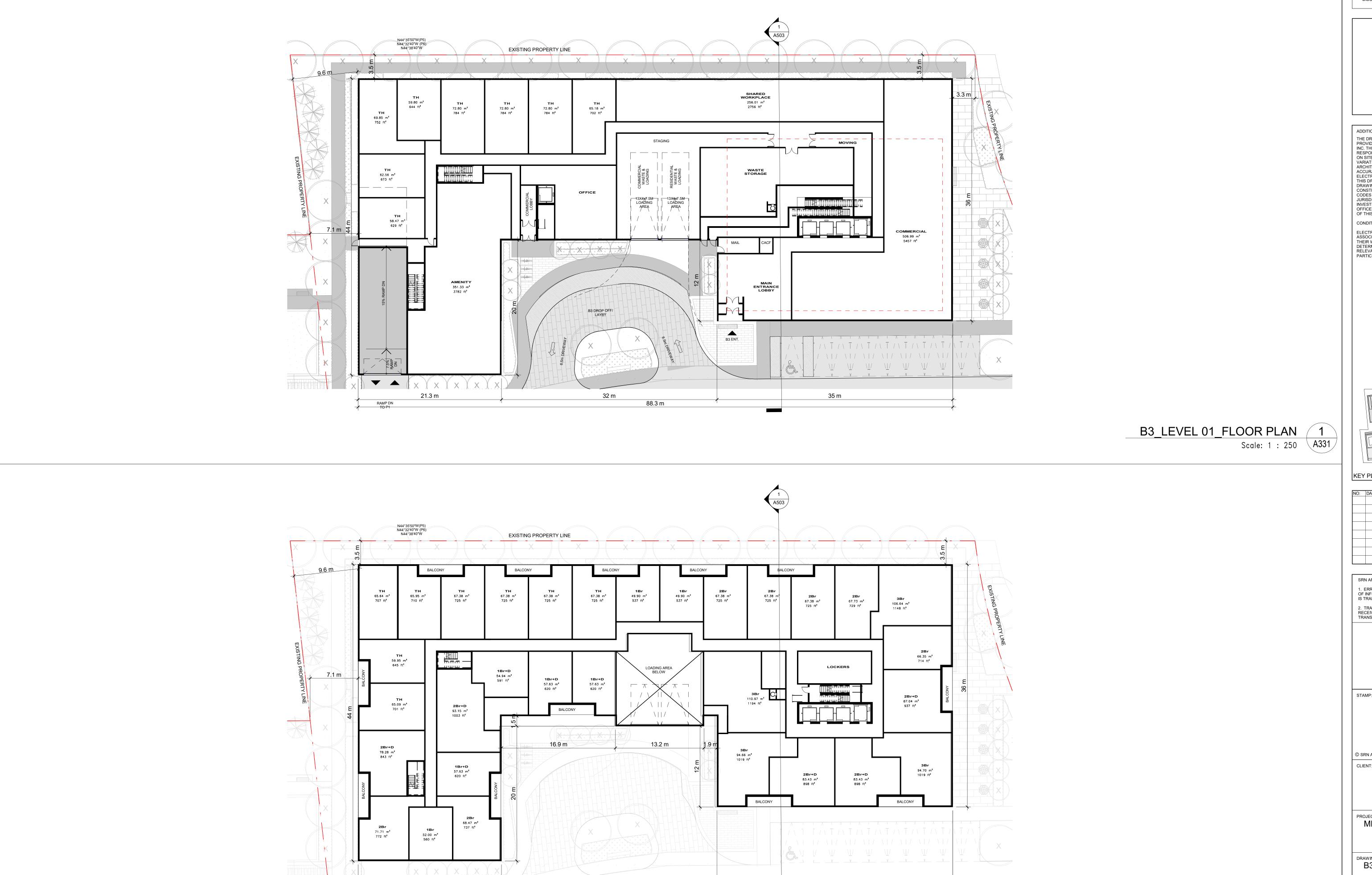
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B2 - LEVEL 25 TO 26 TYPICAL & ROOF - FLOOR PLAN

DATE: 02/22/21 SCALE: DRAWN BY: EM/EH CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:



88.3 m

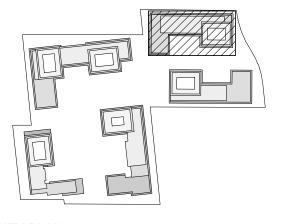
21.3 m

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KEY PLAN 1:4000

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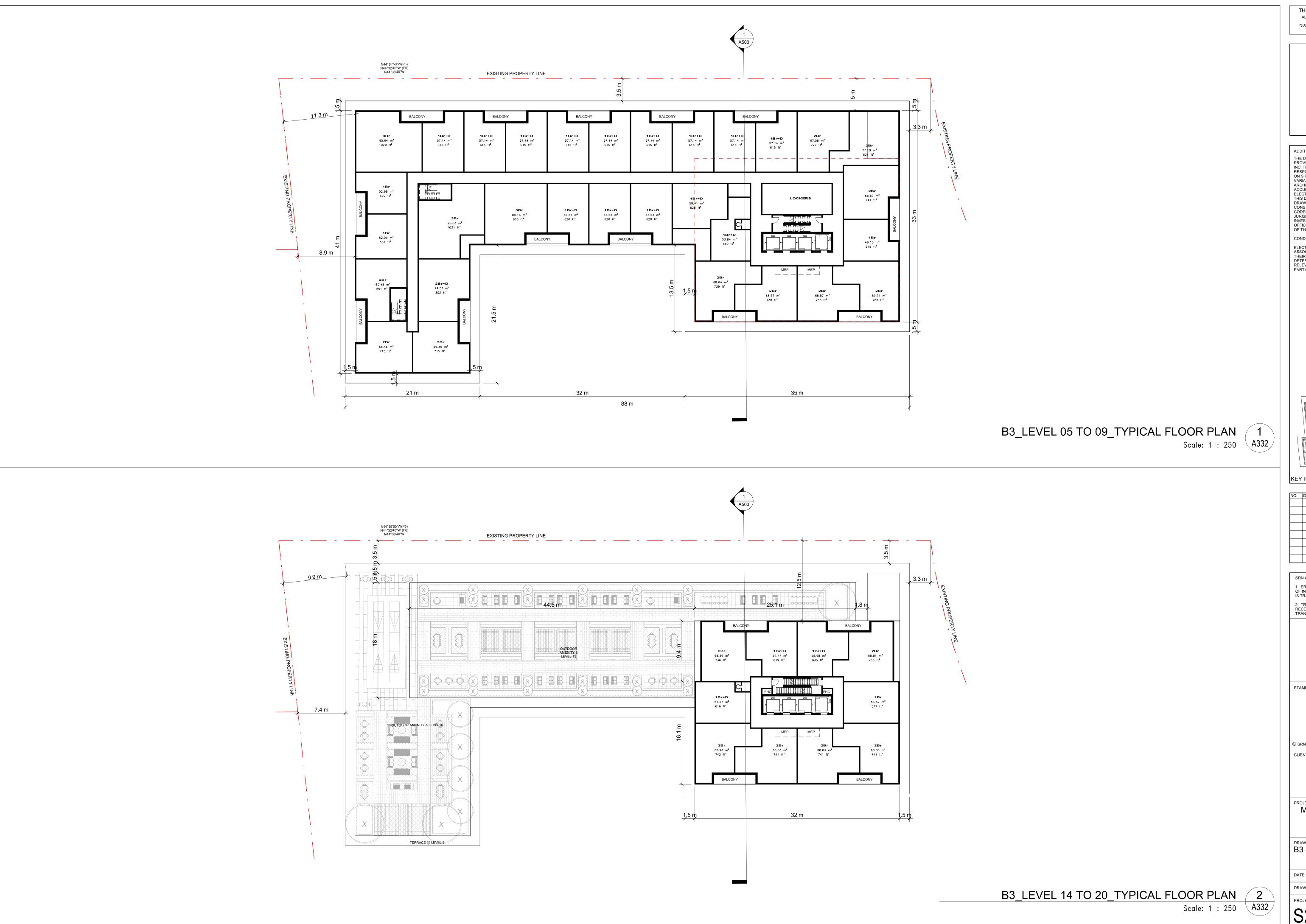
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B3 - LEVEL 01 & 02 - FLOOR PLAN

DATE: 12/09/20 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:

S20023 A331

B3_LEVEL 02_FLOOR PLAN 2
Scale: 1 : 250 A331

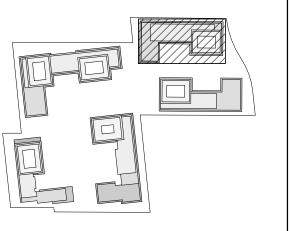


ADDITIONAL NOTES:

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CONDITIONS FOR ELECTRONIC INFORMATION TRANSFER:

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RELEVANCE OF THE INFORMATION IN RESPECT TO THEIR
PARTICULAR RESPONSIBILITY.



KEY PLAN 1:4000

REVISION COMMENT:

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: 1. ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION

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

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MIXED USE DEVELOPMENT

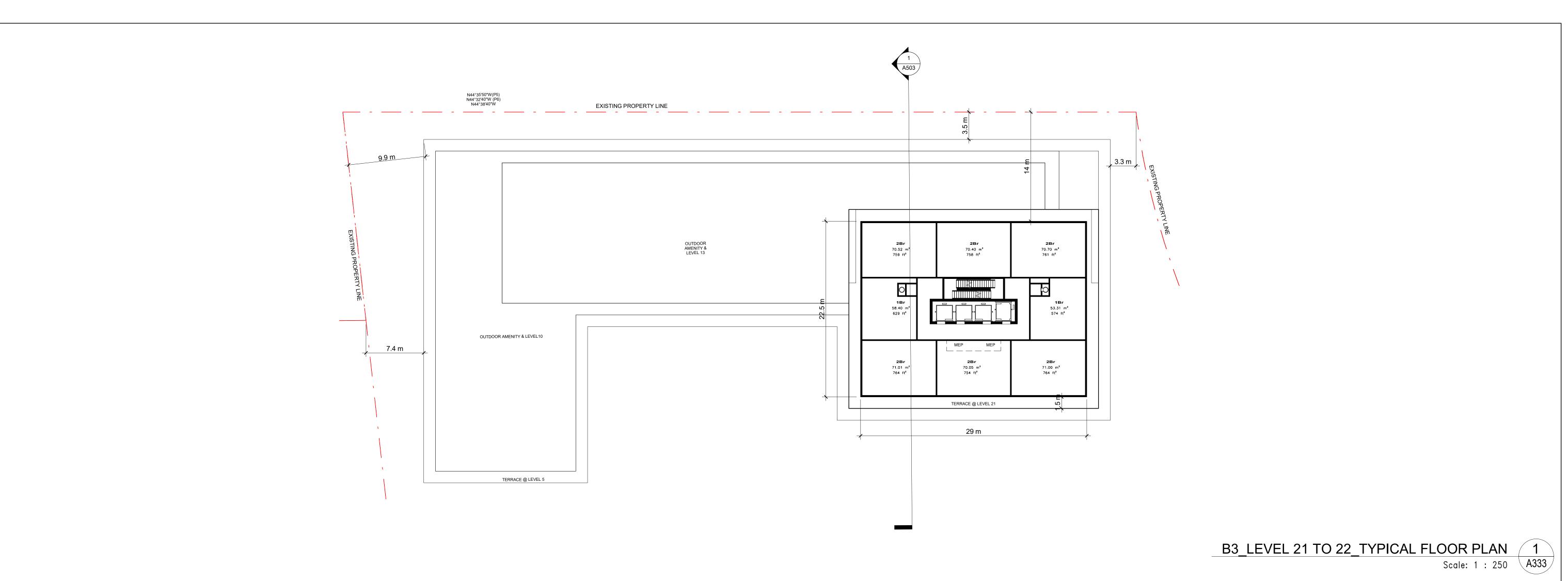
12563 & 12599 HWY 50 BOLTON - ONTARIO B3 - LEVEL 05 TO 09, 14 TO 20

A332

TYPICAL FLOOR PLAN DATE: 12/09/20 SCALE:

CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:

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EXISTING PROPERTY LINE

B3

N44°35'50"W(P5) N44°32'40"W (P6) N44°38'40"W

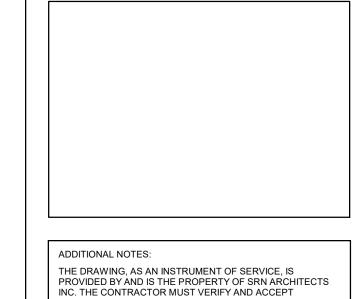
21.3 m

0.10N 0.06E

N44 32 4U VV(PZ)

B3 ROOF PLAN FLOOR PLAN
Scale: 1: 250 A333

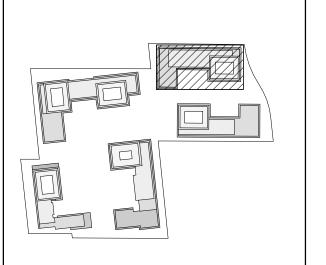
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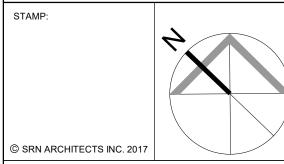


NO:	DATE:	REVISION COMMENT:	
	KEY PLAN 1	: 4000	

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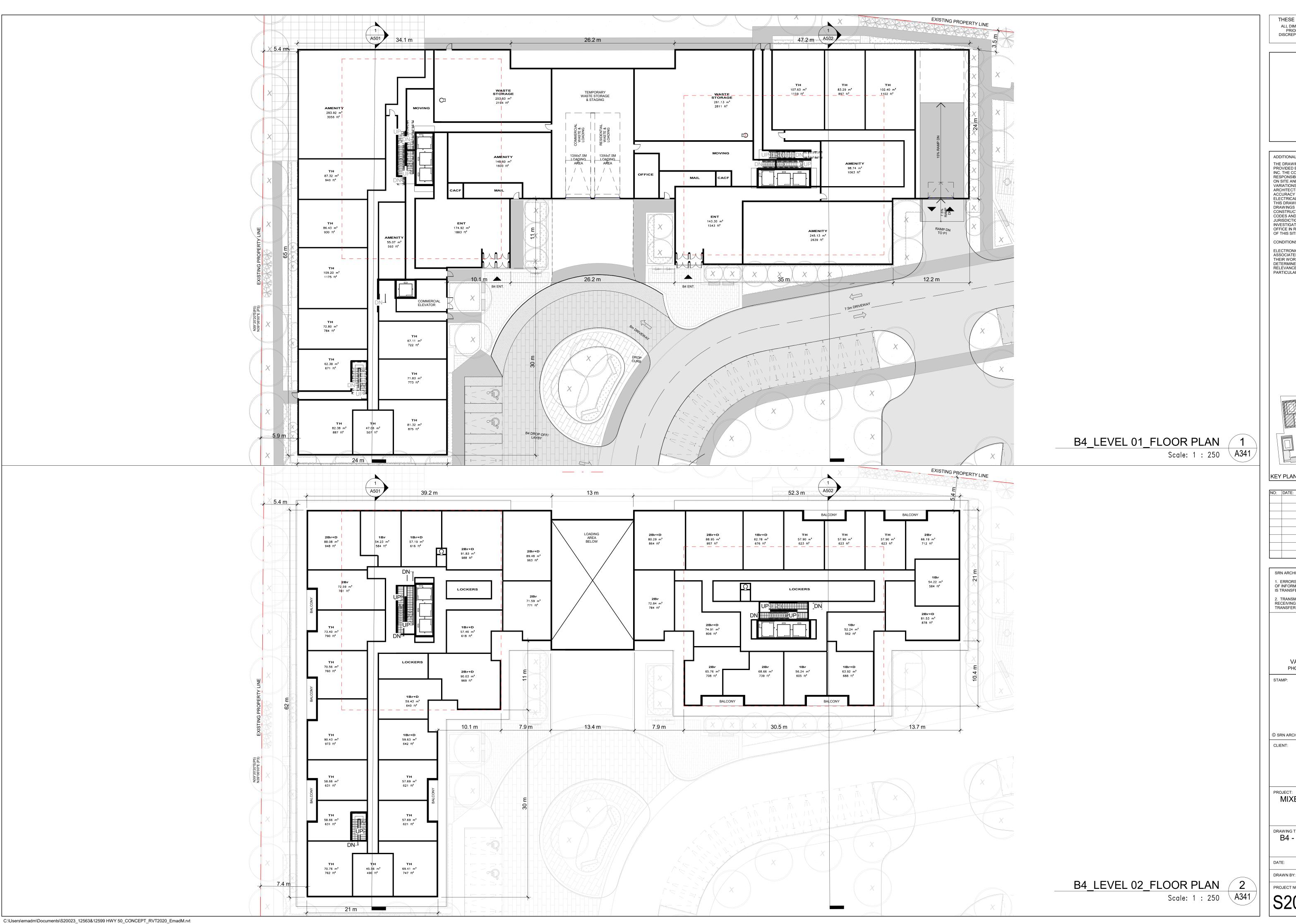
12599 Hwy 50 Ltd.

MIXED USE DEVELOPMENT 12563 & 12599 HWY 50 BOLTON - ONTARIO

B3 -21 TO 22 & ROOF - TYPICAL FLOOR PLAN

DATE: 02/22/21 SCALE: DRAWN BY: EM/EH CHECKED BY: EM/GR DRAWING NUMBER: A333

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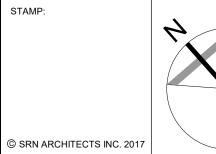
KEY PLAN 1:4000

NO:	DATE:	REVISION COMMENT:	

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS
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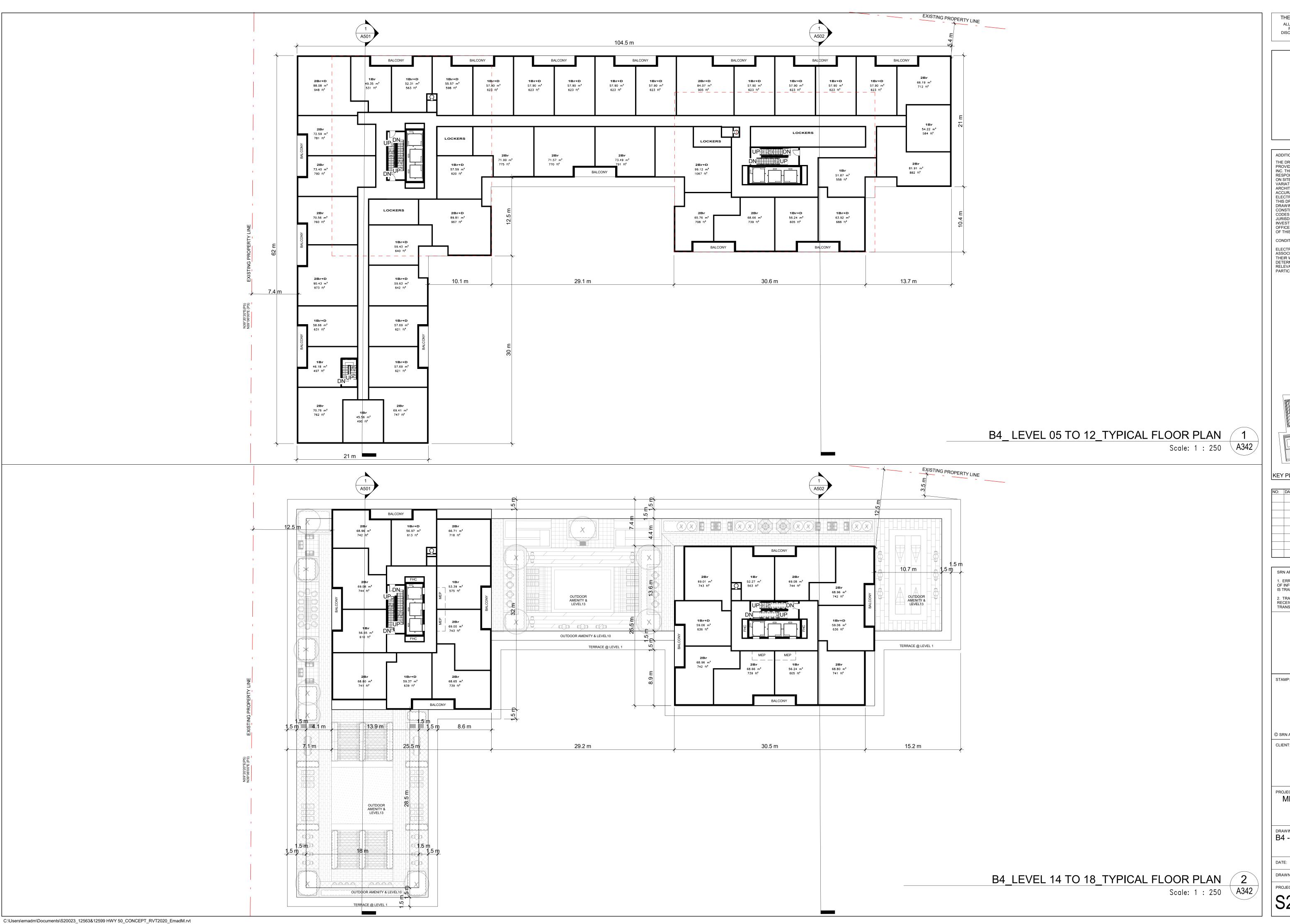
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MIXED USE DEVELOPMENT 12563 & 12599 HWY 50 BOLTON - ONTARIO

B4 - LEVEL 01 & 02 - FLOOR PLAN

DATE: 12/09/20 SCALE: DRAWN BY: EM/EH CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:

A341

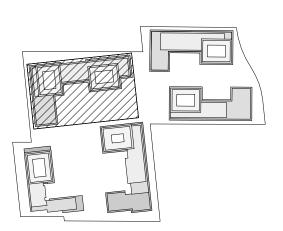


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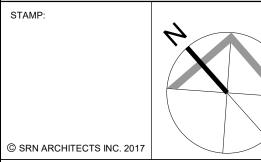
KEY PLAN 1:4000

NO:	DATE:	REVISION COMMENT:	

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MIXED USE DEVELOPMENT 12563 & 12599 HWY 50 BOLTON - ONTARIO

B4 - LEVEL 05 TO 12, 14 TO 18 -TYPICAL FLOOR PLAN

DATE: 12/09/20 SCALE: DRAWN BY: EM/EH CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER: A342



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KEY PLAN 1:4000

NO:	DATE:	REVISION COMMENT:

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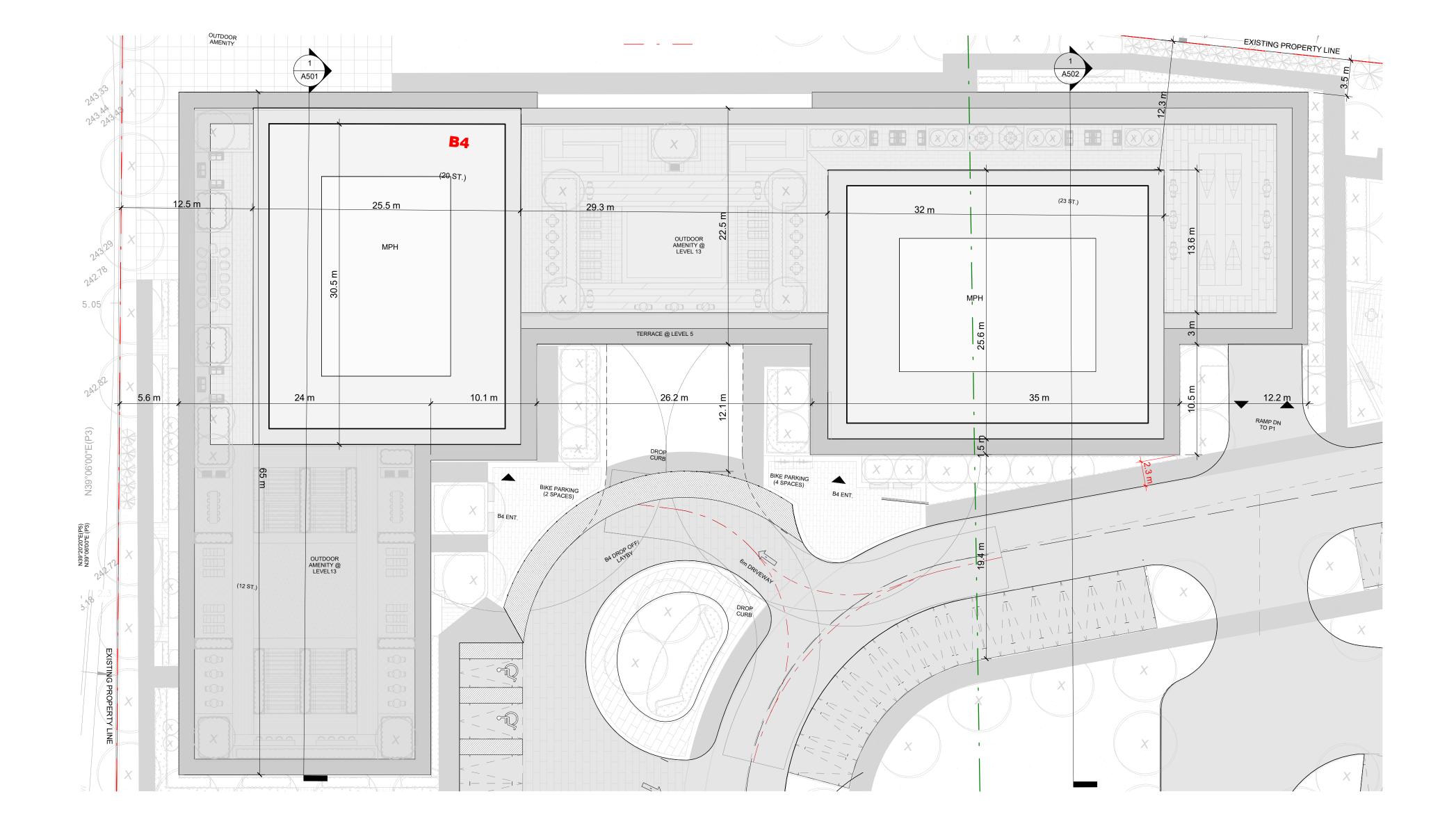
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B4 - LEVEL 19 TO 20, 22 TO 23 -TYPICAL FLOOR PLAN

DATE: 12/09/20 SCALE: DRAWN BY: EM/EH CHECKED BY: EM/GR

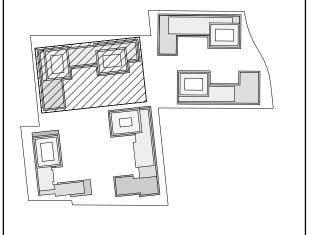


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NO:	DATE:		REVISION COMMENT:
	KEY PLAN	1	: 4000

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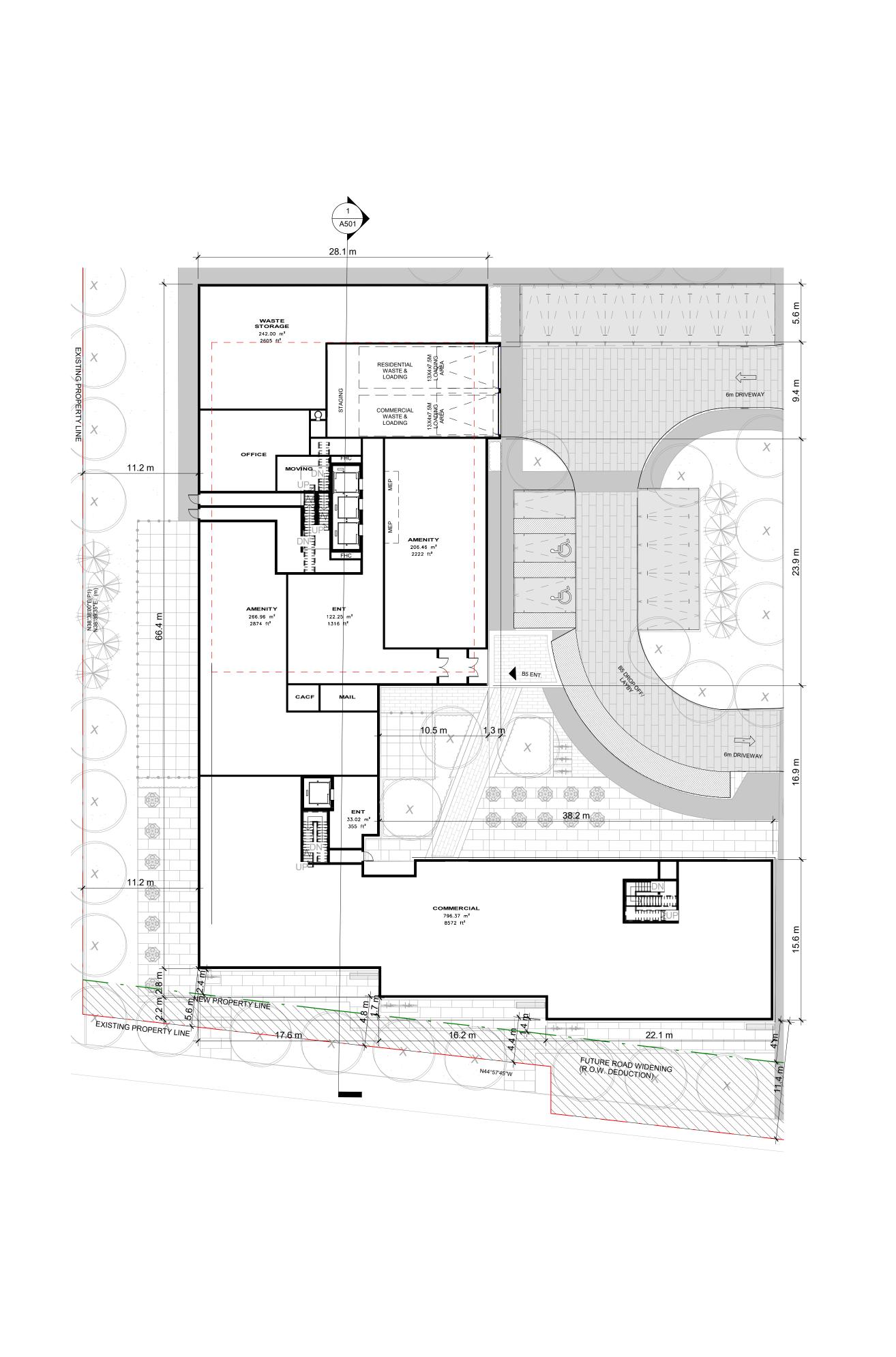
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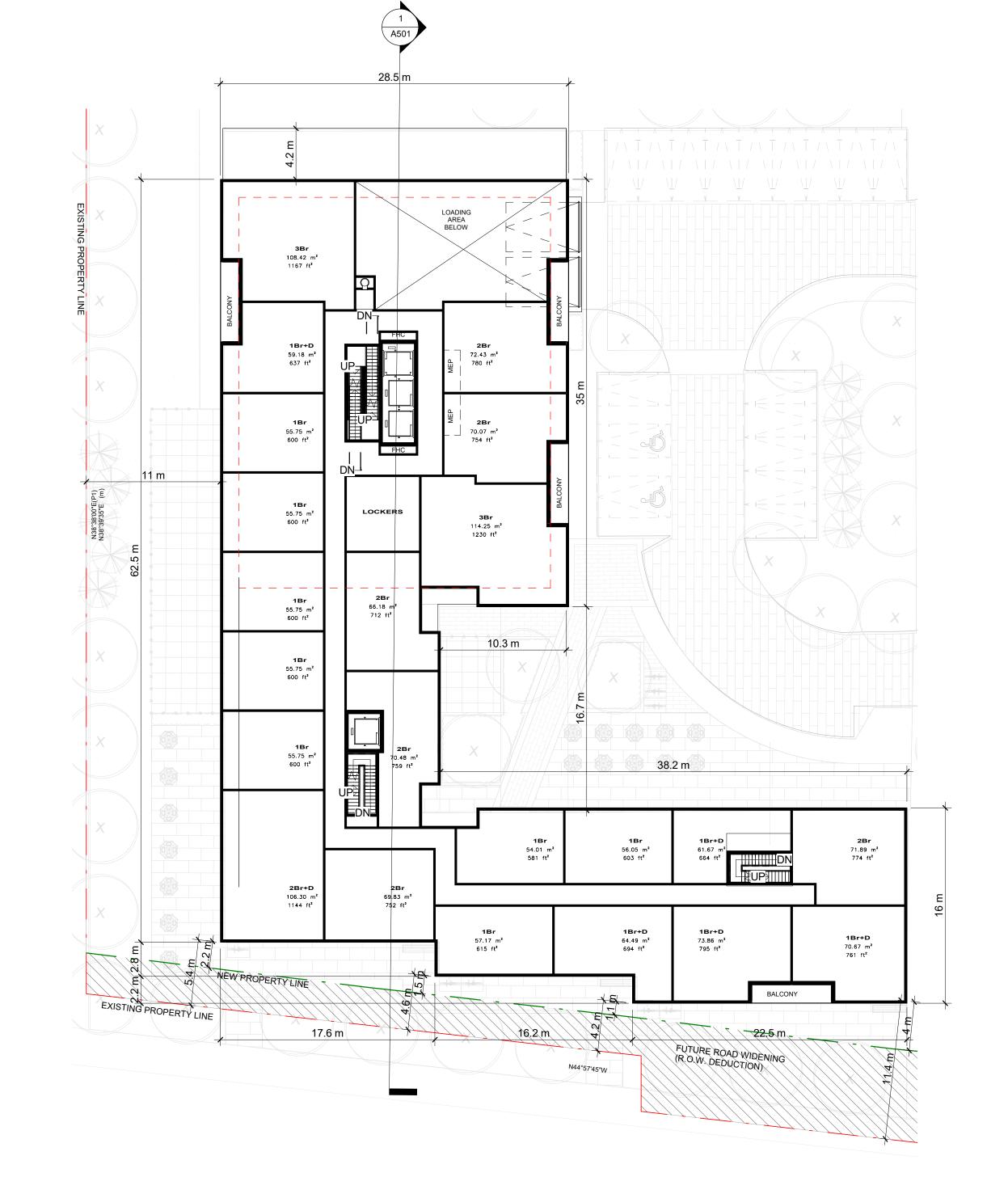
B4 - ROOF - FLOOR PLAN

S20023	A344
PROJECT NUMBER:	DRAWING NUMBER:
DRAWN BY: EM/EH	CHECKED BY: EM/GR
DATE: 02/22/21	SCALE: As indicated



B5_LEVEL 01_FLOOR PLAN 1

Scale: 1 : 250 A351



B5_LEVEL 02_FLOOR PLAN 2

DATE: 12/09/20 SCALE: indicated DRAWN BY: EM/EH CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER: S20023 A351

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ADDITIONAL NOTES:

KEY PLAN 1:4000

REVISION COMMENT:

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

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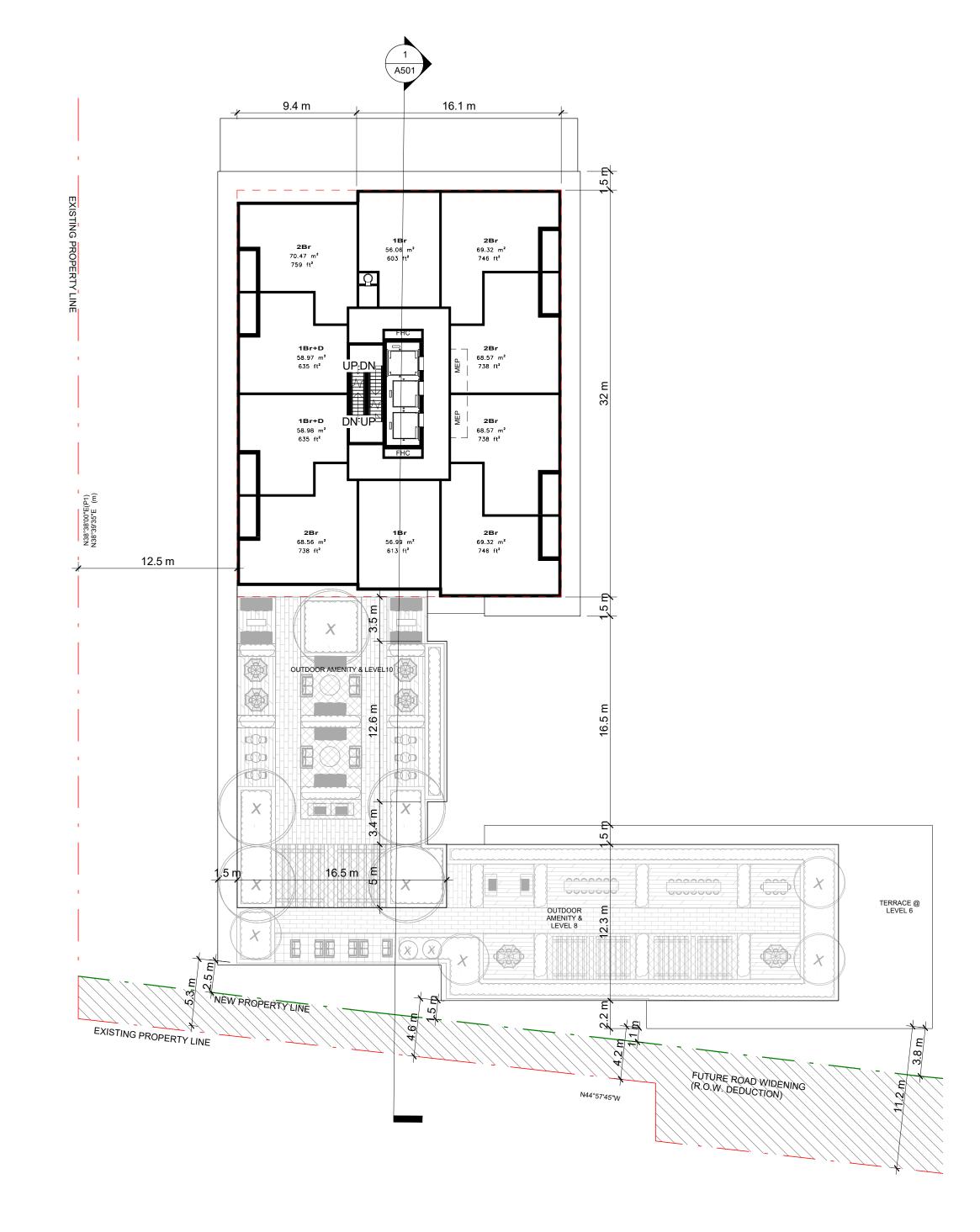
B5 - LEVEL 01 & 02 - FLOOR PLAN

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Scale: 1 : 250 A351



B5_LEVEL 03 TO 05_TYPICAL FLOOR PLAN Scale: 1 : 250 A352



B5_LEVEL 10 TO 16_TYPICAL FLOOR PLAN 2

Scale: 1 : 250 A352

PROJECT NUMBER:

DATE: 12/09/20

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DRAWN BY: EM/EH CHECKED BY: EM/GR DRAWING NUMBER: A352

SCALE:

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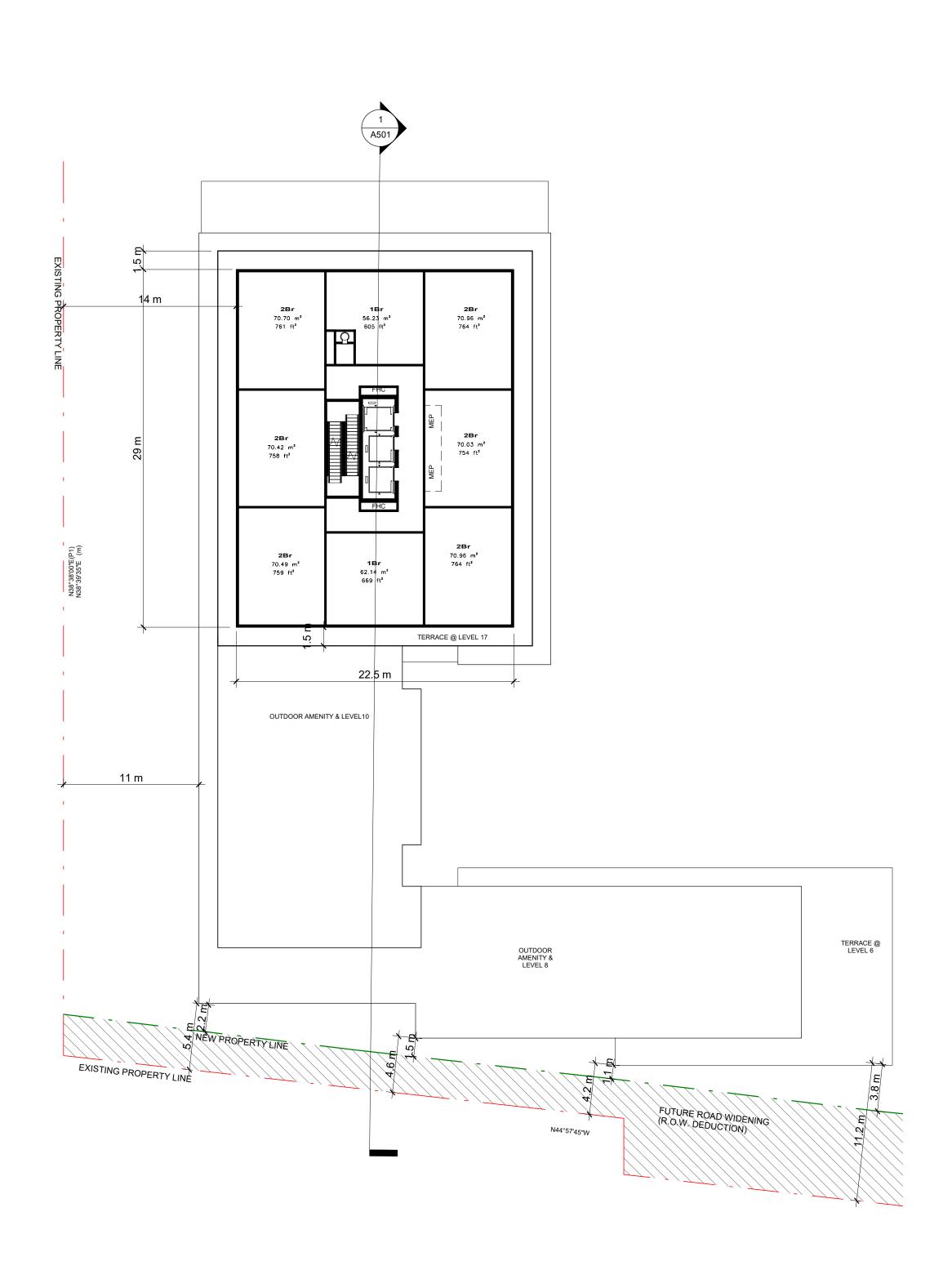
12599 Hwy 50 Ltd.

MIXED USE DEVELOPMENT

□BYSINGLIEVEL 03 TO 05, 10 TO 16 & 17 TO 18 - TYPICAL FLOOR

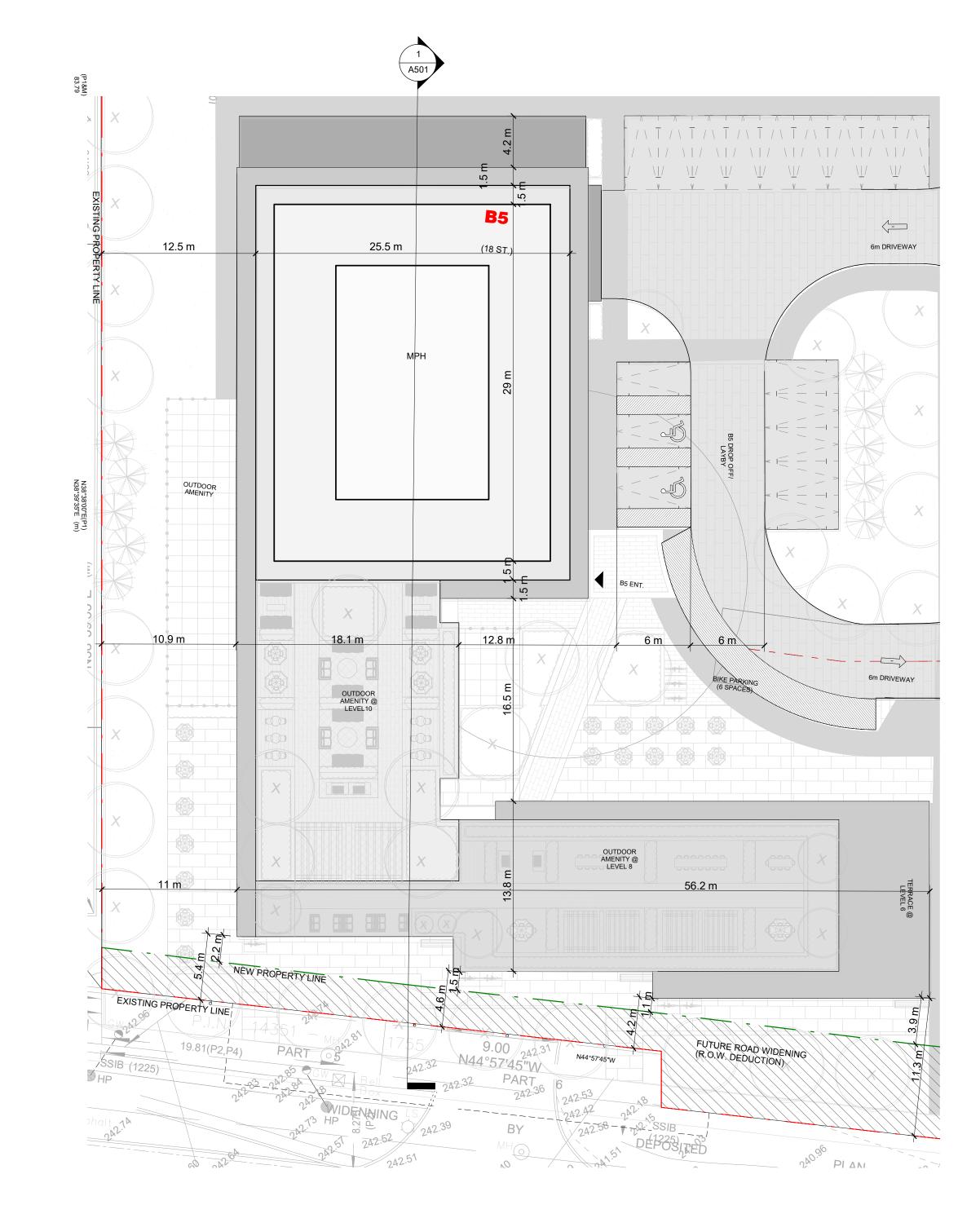
PLAN

12563 & 12599 HWY 50 BOLTON - ONTARIO



B5_LEVEL 17 TO 18_TYPICAL FLOOR PLAN 1

Scale: 1 : 250 A353



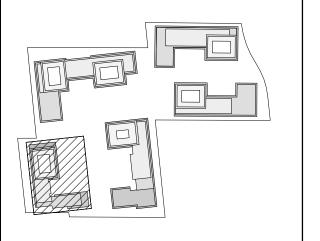
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B5 - 17 TO 18 & ROOF FLOOR PLAN

DATE: 02/22/21 SCALE: CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER:

A353

(32 STOREY) A411 (26 STOREY) (23 STOREY) (22 STOREY) (18 STOREY) 17.7 m

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DEVELOPMENT EAST ELEVATION Scale: 1 : 300 \ A401

PROJECT NUMBER: S20023 A401

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DEVELOPMENT EAST **ELEVATION**

SCALE: indicated DRAWN BY: EM/FK/EH | CHECKED BY: EM/GR

DRAWING NUMBER:

BOLTON - ONTARIO ELEVATION SCALE: DRAWING NUMBER: A402

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THESE DRAWINGS ARE NOT TO BE SCALED:

ARCHITECTS INC.

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

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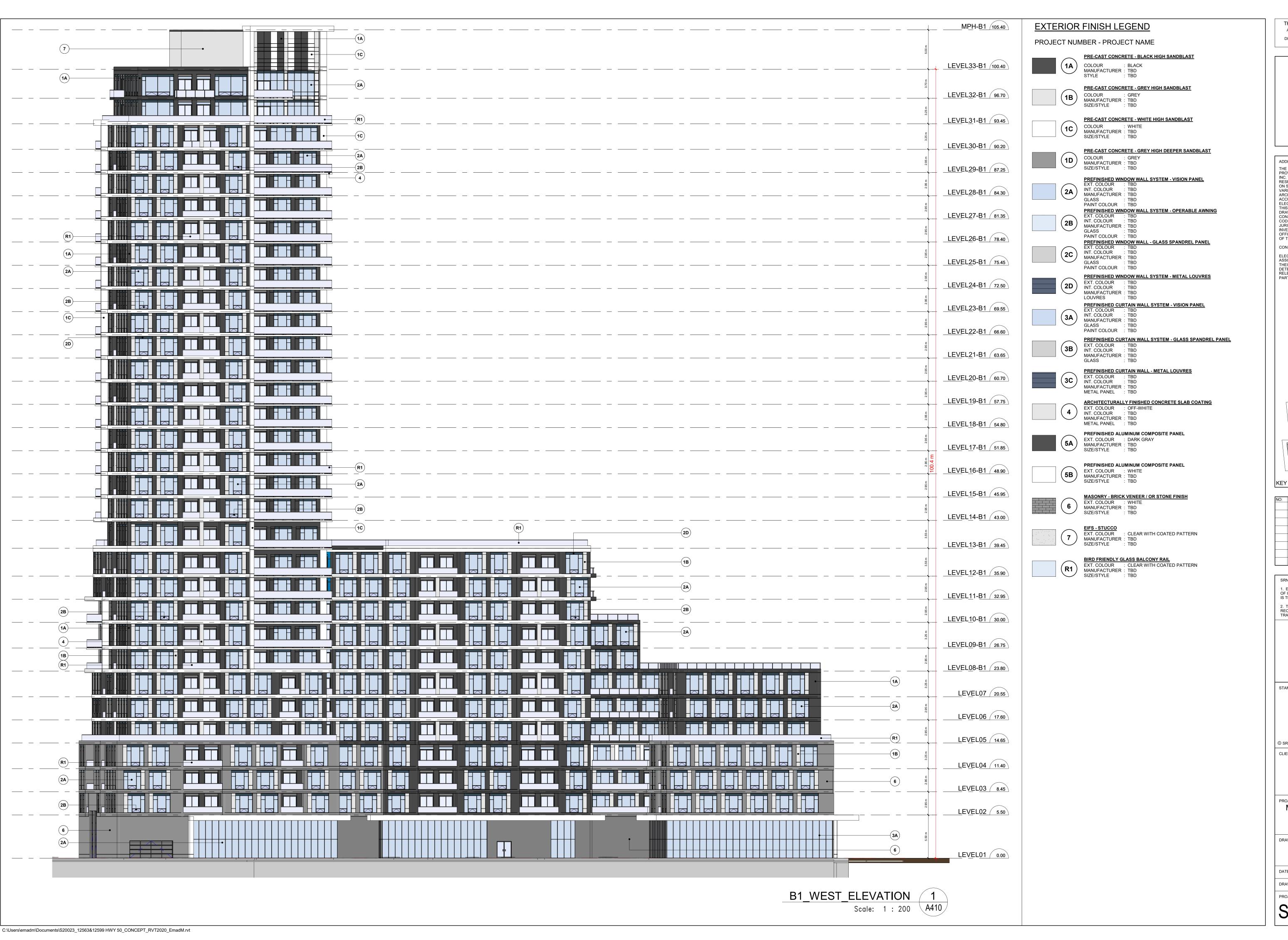
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12563 & 12599 HWY 50

DEVELOPMENT SOUTH

DRAWN BY: EM/FK/EH | CHECKED BY: EM/GR

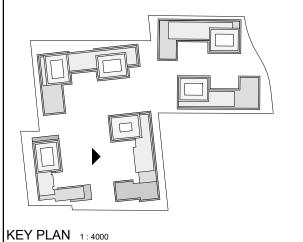
Scale: 1 : 350 A402 S20023



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RELEVANCE OF THE INFORMATION IN RESPECT TO THEIR
PARTICULAR RESPONSIBILITY.



REVISION COMMENT:

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SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: . ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION 2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS

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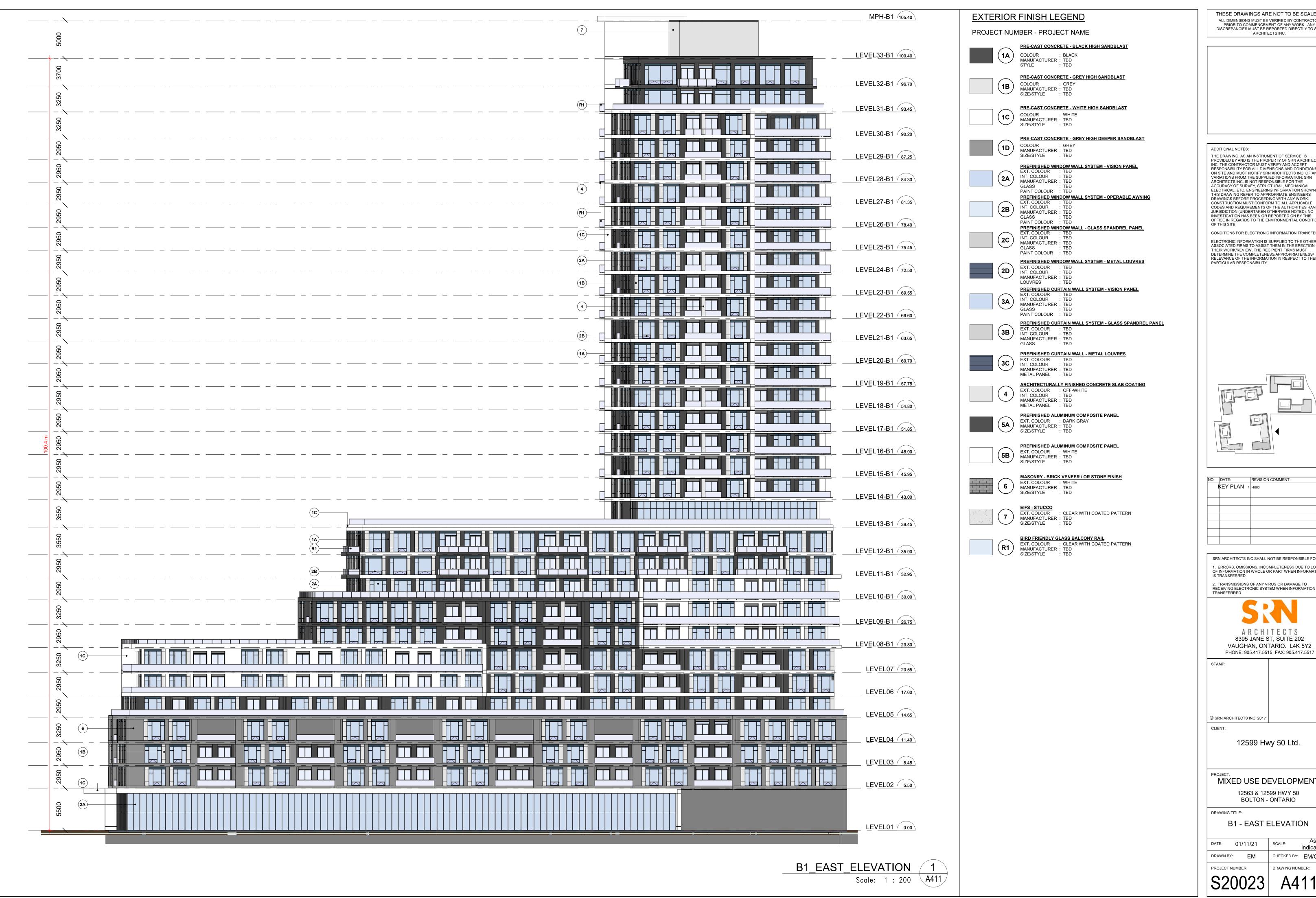
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MIXED USE DEVELOPMENT 12563 & 12599 HWY 50

BOLTON - ONTARIO

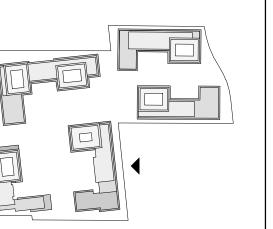
B1 - WEST ELEVATION

DATE: 12/09/20 SCALE: indicated CHECKED BY: EM/GR DRAWN BY: PROJECT NUMBER: DRAWING NUMBER: A410



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PARTICULAR RESPONSIBILITY.



):	DATE:	REVISION COMMENT:
ŀ	KEY PLAN 1	: 4000

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: . ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION

2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS

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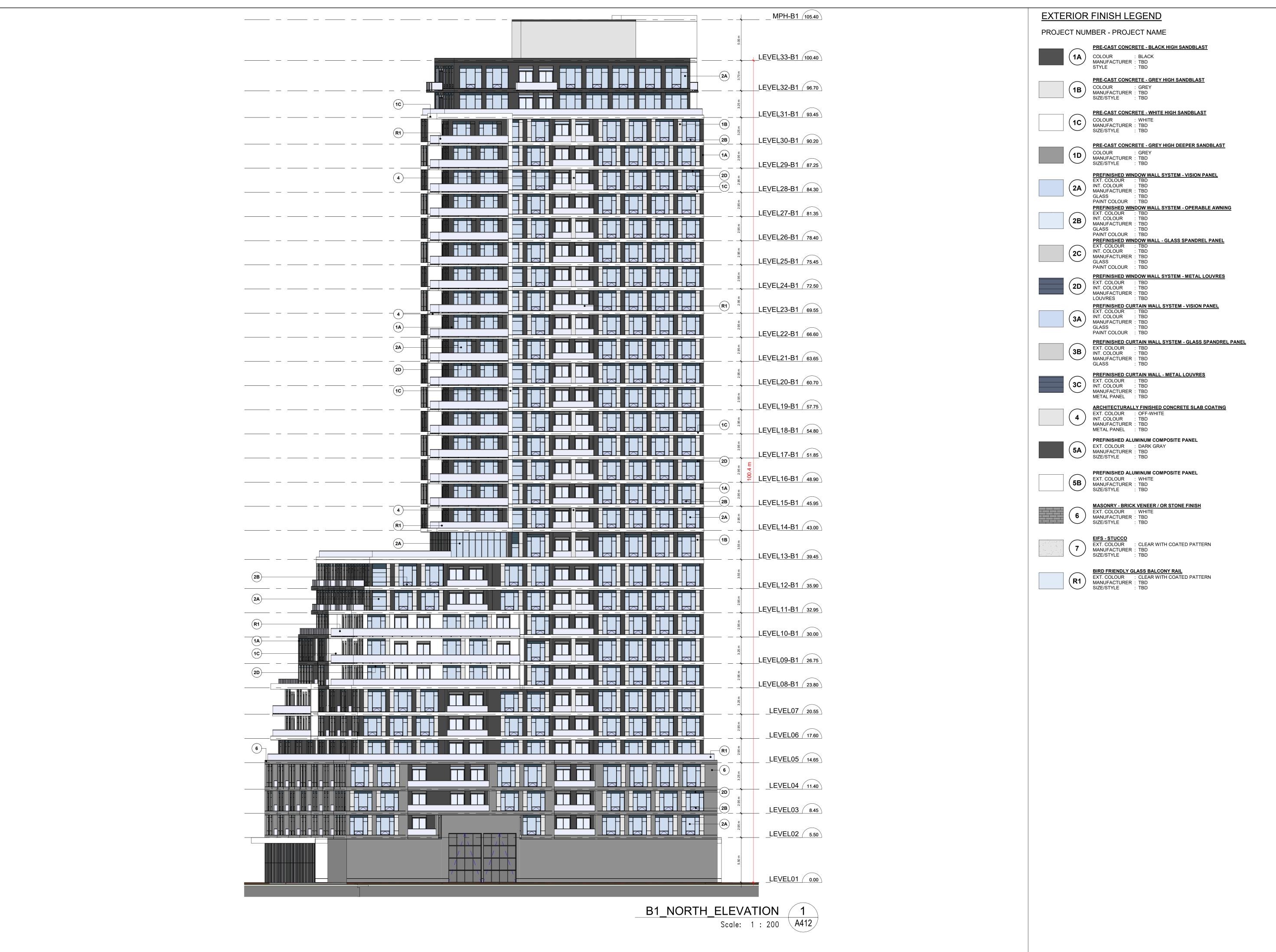
MIXED USE DEVELOPMENT 12563 & 12599 HWY 50

B1 - EAST ELEVATION

SCALE: indicated CHECKED BY: EM/GR DRAWING NUMBER:

A411

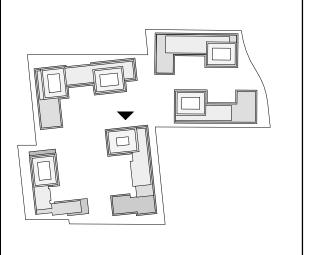
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ADDITIONAL NOTES:

THE DRAWING, AS AN INSTRUMENT OF SERVICE, IS PROVIDED BY AND IS THE PROPERTY OF SRN ARCHITECTS INC. THE CONTRACTOR MUST VERIFY AND ACCEPT RESPONSIBILITY FOR ALL DIMENSIONS AND CONDITIONS ON SITE AND MUST NOTIFY SRN ARCHITECTS INC. OF ANY VARIATIONS FROM THE SUPPLIED INFORMATION. SRN ARCHITECTS INC. IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY, STRUCTURAL, MECHANICAL, ELECTRICAL. ETC. ENGINEERING INFORMATION SHOWN ON THIS DRAWING REFER TO APPROPRIATE ENGINEERS DRAWINGS BEFORE PROCEEDING WITH ANY WORK. CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION (UNDERTAKEN OTHERWISE NOTED). NO INVESTIGATION HAS BEEN OR REPORTED ON BY THIS OFFICE IN REGARDS TO THE ENVIRONMENTAL CONDITION OF THIS SITE.

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



NO: DATE: REVISION COMMENT: KEY PLAN 1 4000

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: . ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION 2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS

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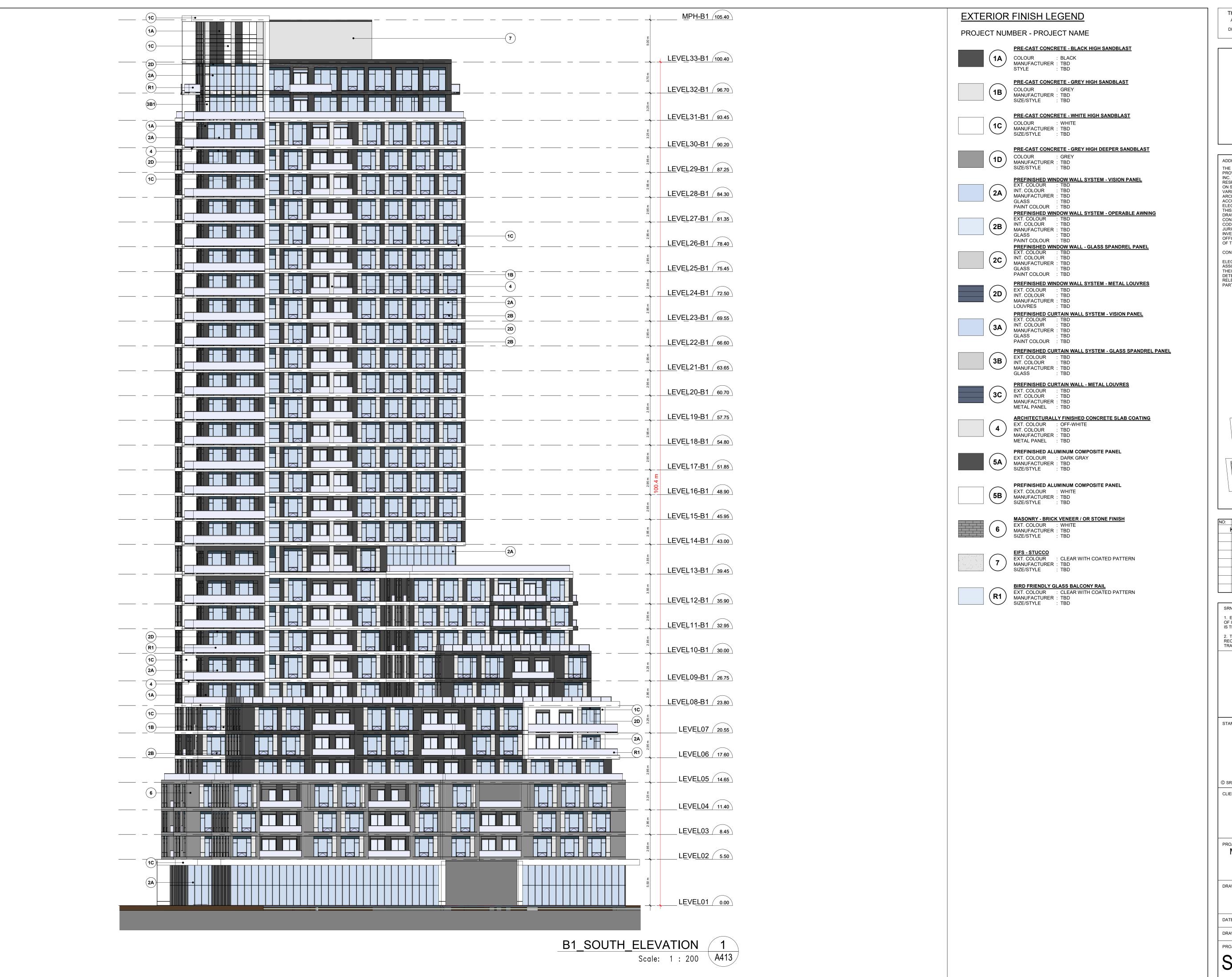
MIXED USE DEVELOPMENT

12563 & 12599 HWY 50 BOLTON - ONTARIO

B1 - NORTH ELEVATIONS

SCALE: DATE: 02/10/21 indicated CHECKED BY: EM/GR DRAWN BY: PROJECT NUMBER: DRAWING NUMBER: A412

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THESE DRAWINGS ARE NOT TO BE SCALED:

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
PRIOR TO COMMENCEMENT OF ANY WORK. ANY
DISCREPANCIES MUST BE REPORTED DIRECTLY TO SRN
ARCHITECTS INC.

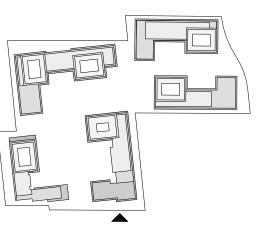
ADDITIONAL NOTES:

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OFFICE IN REGARDS TO THE ENVIRONMENTAL CONDITION OF THIS SITE.

CONDITIONS FOR ELECTRONIC INFORMATION TRANSFER:

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NO:	DATE:	REVISION COMMENT:
	KEY PLAN 1	: 4000

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR:

1. ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS
OF INFORMATION IN WHOLE OR PART WHEN INFORMATION
IS TRANSFERRED.

2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO

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

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MIXED USE DEVELOPMENT

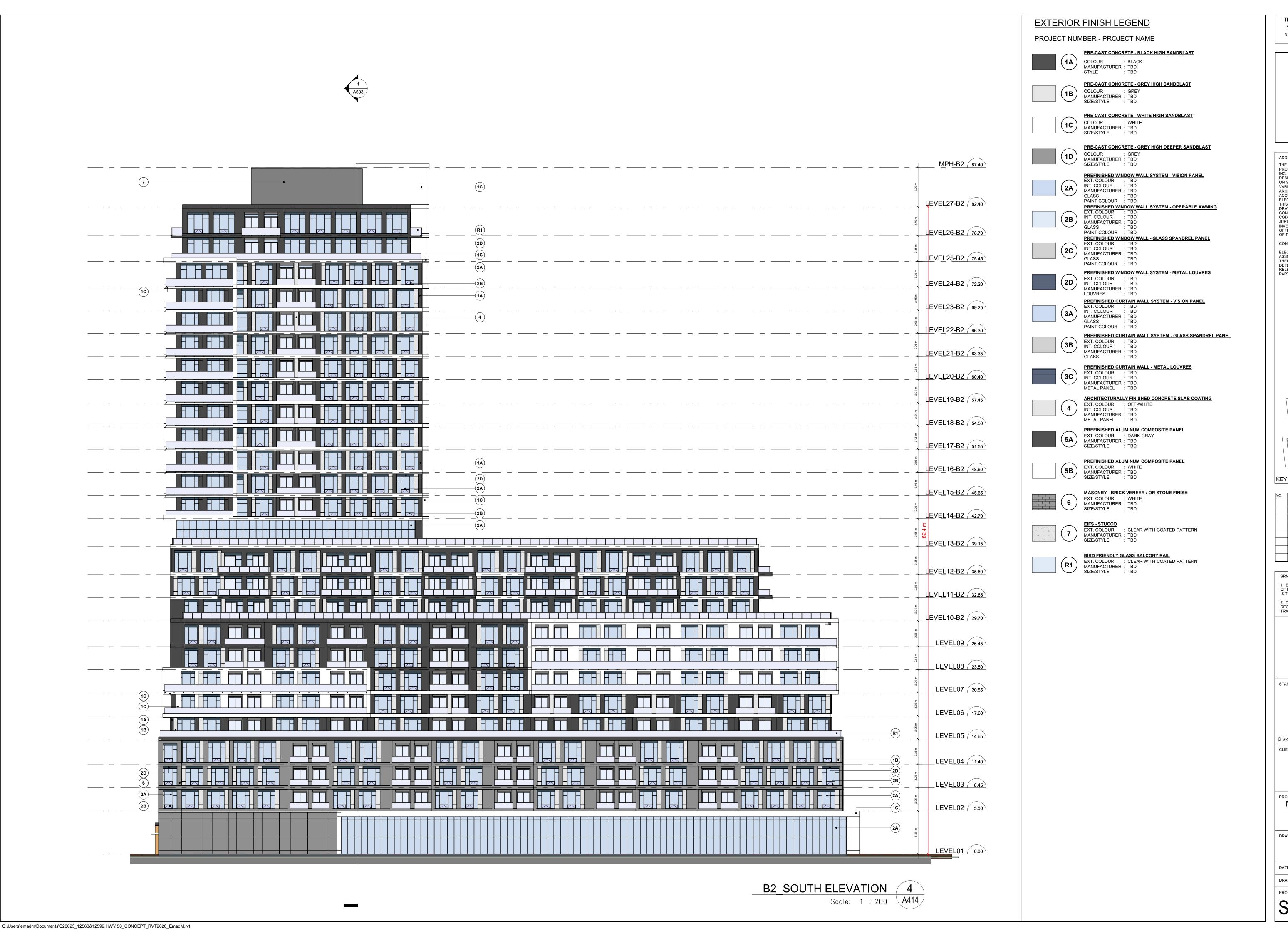
12563 & 12599 HWY 50

BOLTON - ONTARIO

DRAWING TITL

B1 - SOUTH ELEVATIONS

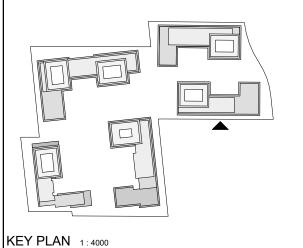
DATE: 02/18/21 SCALE: As indicated I



ADDITIONAL NOTES: THE DRAWING, AS AN INSTRUMENT OF SERVICE, IS PROVIDED BY AND IS THE PROPERTY OF SRN ARCHITECTS INC. THE CONTRACTOR MUST VERIFY AND ACCEPT RESPONSIBILITY FOR ALL DIMENSIONS AND CONDITIONS ON SITE AND MUST NOTIFY SRN ARCHITECTS INC. OF ANY VARIATIONS FROM THE SUPPLIED INFORMATION. SRN ARCHITECTS INC. IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY, STRUCTURAL, MECHANICAL,

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REVISION COMMENT:

SRN ARCHITECTS INC SHALL NOT BE RESPONSIBLE FOR: . ERRORS, OMISSIONS, INCOMPLETENESS DUE TO LOSS OF INFORMATION IN WHOLE OR PART WHEN INFORMATION 2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS

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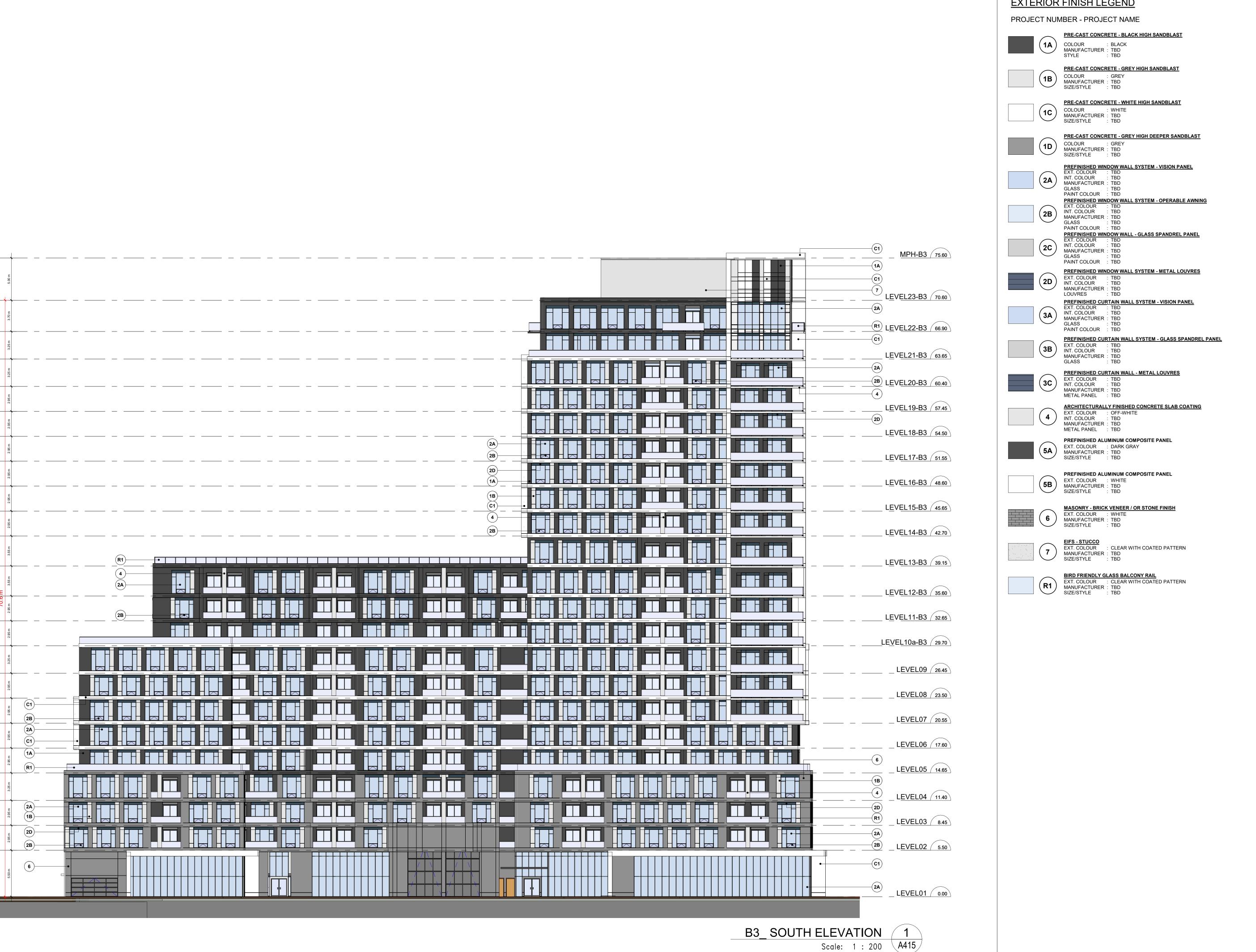
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B2 SOUTH ELEVATION

SCALE: indicated DRAWN BY: EM/FK CHECKED BY: EM/GR DRAWING NUMBER: A414

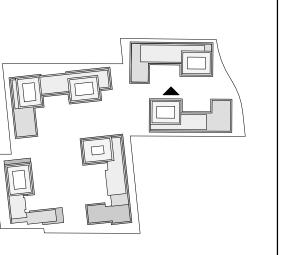


EXTERIOR FINISH LEGEND

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REVISION COMMENT: KEY PLAN 1 4000

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B3 - SOUTH ELEVATION

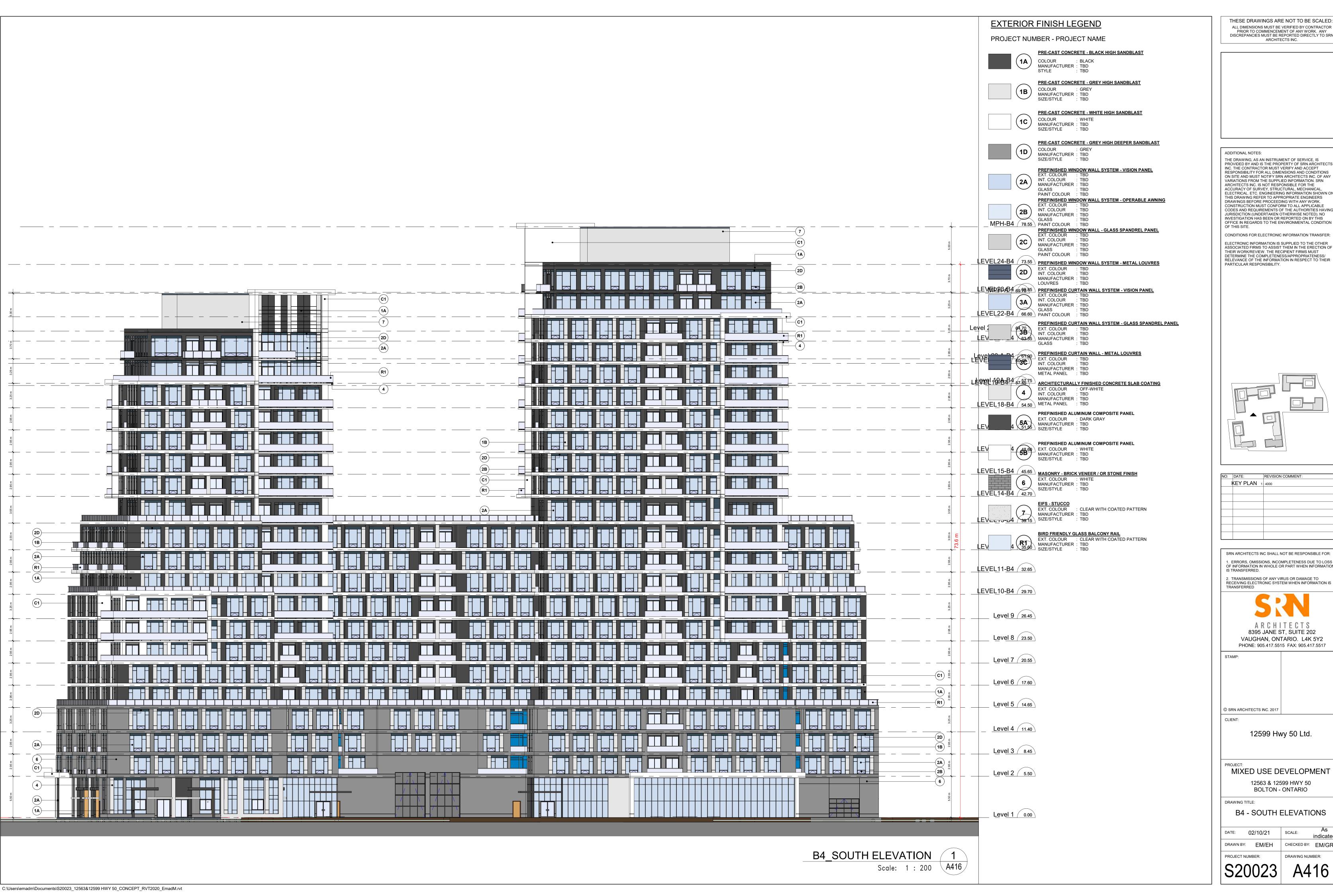
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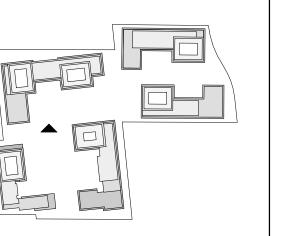
DATE: 02/10/21

DRAWING NUMBER: A415



ADDITIONAL NOTES: THE DRAWING, AS AN INSTRUMENT OF SERVICE, IS PROVIDED BY AND IS THE PROPERTY OF SRN ARCHITECTS INC. THE CONTRACTOR MUST VERIFY AND ACCEPT RESPONSIBILITY FOR ALL DIMENSIONS AND CONDITIONS ON SITE AND MUST NOTIFY SRN ARCHITECTS INC. OF ANY VARIATIONS FROM THE SUPPLIED INFORMATION. SRN ARCHITECTS INC. IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY, STRUCTURAL, MECHANICAL, ELECTRICAL. ETC. ENGINEERING INFORMATION SHOWN ON THIS DRAWING REFER TO APPROPRIATE ENGINEERS DRAWINGS BEFORE PROCEEDING WITH ANY WORK. CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION (UNDERTAKEN OTHERWISE NOTED). NO

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REVISION COMMENT: KEY PLAN 1 4000

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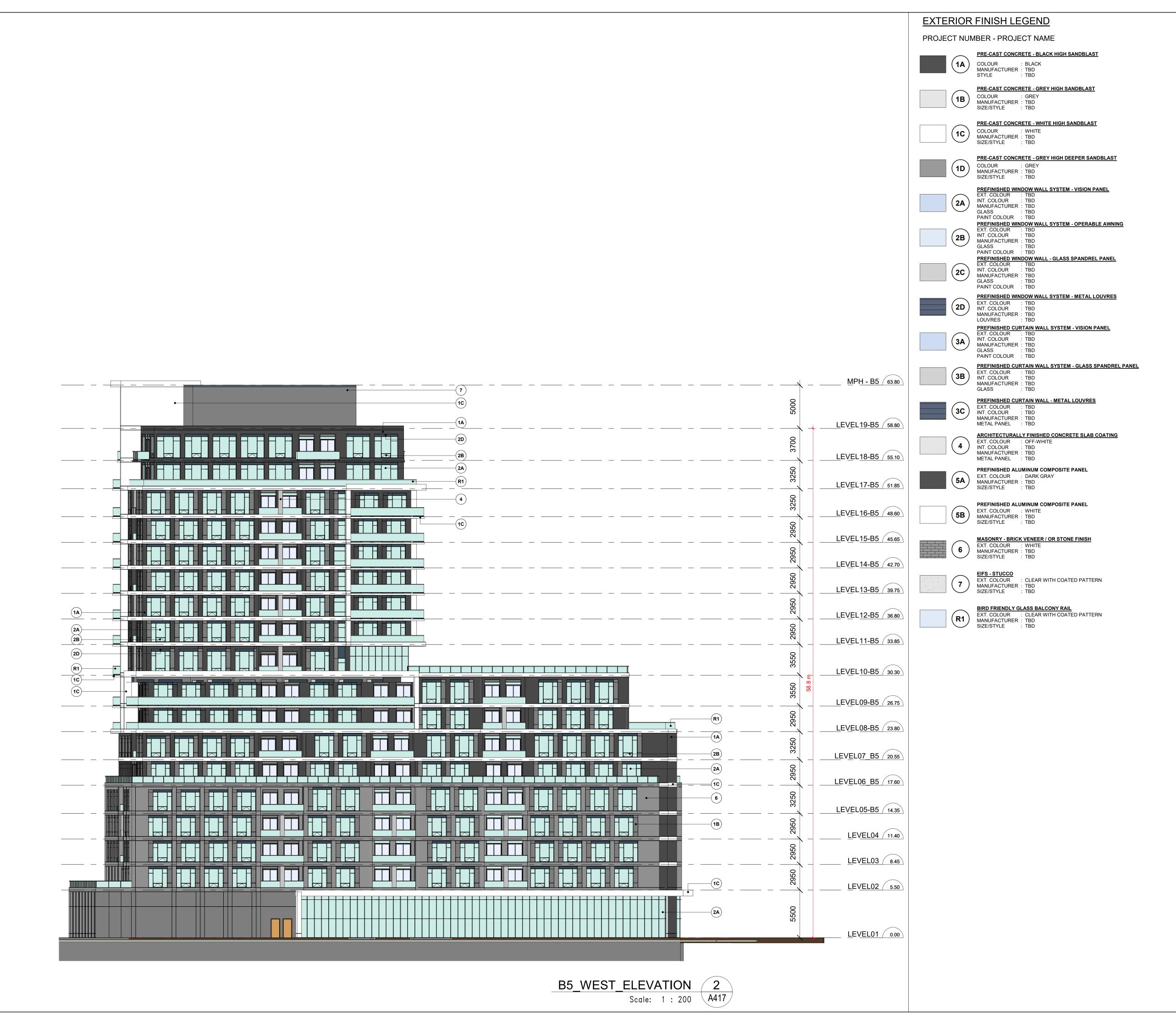
BOLTON - ONTARIO

B4 - SOUTH ELEVATIONS SCALE: indicated

CHECKED BY: EM/GR

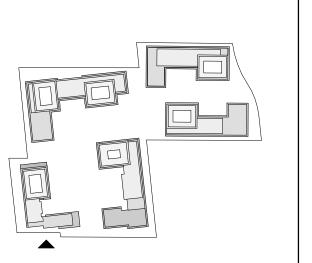
DRAWING NUMBER:

A416



ADDITIONAL NOTES: THE DRAWING, AS AN INSTRUMENT OF SERVICE, IS PROVIDED BY AND IS THE PROPERTY OF SRN ARCHITECTS INC. THE CONTRACTOR MUST VERIFY AND ACCEPT RESPONSIBILITY FOR ALL DIMENSIONS AND CONDITIONS ON SITE AND MUST NOTIFY SRN ARCHITECTS INC. OF ANY VARIATIONS FROM THE SUPPLIED INFORMATION. SRN ARCHITECTS INC. IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY, STRUCTURAL, MECHANICAL, ELECTRICAL. ETC. ENGINEERING INFORMATION SHOWN ON THIS DRAWING REFER TO APPROPRIATE ENGINEERS DRAWINGS BEFORE PROCEEDING WITH ANY WORK. CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION (UNDERTAKEN OTHERWISE NOTED). NO INVESTIGATION HAS BEEN OR REPORTED ON BY THIS

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NO:	DATE:	REVISION COMMENT:
	KEY PLAN 1	: 4000

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DRAWING TITLE:

B5- WEST ELEVATION

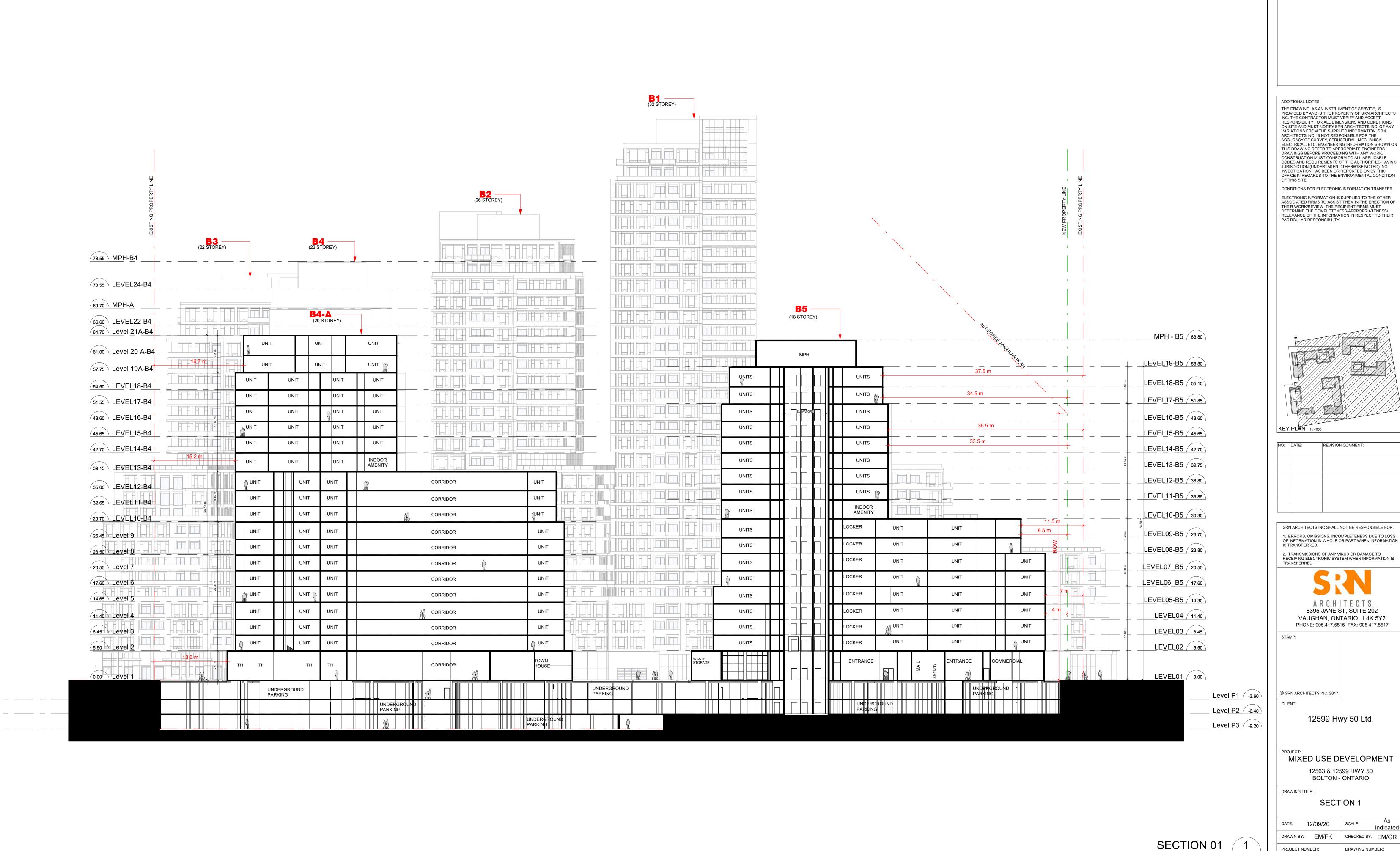
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DATE: 02/10/21

A417



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REVISION COMMENT:

BOLTON - ONTARIO

SECTION 1

PROJECT NUMBER:

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Scale: 1 : 300 A501

SCALE:

CHECKED BY: EM/GR

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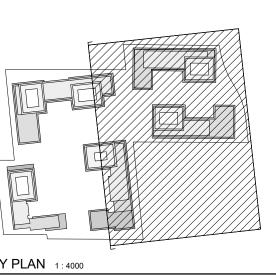
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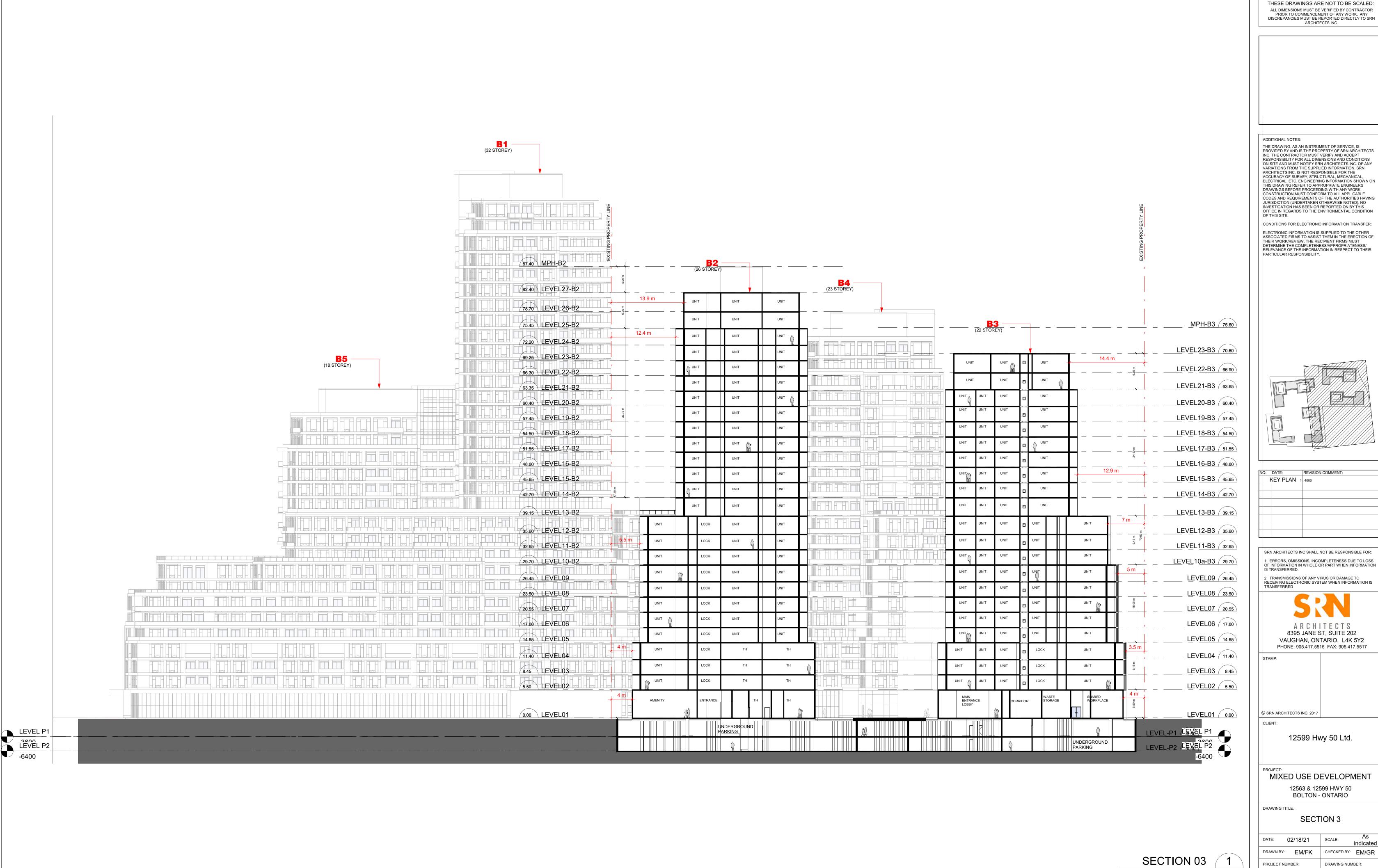
SECTION 02 1

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THESE DRAWINGS ARE NOT TO BE SCALED: ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO SRN ARCHITECTS INC.



NO:	DATE:	REVISION COMMENT:



Scale: 1 : 300 A503

SECTION 3 SCALE: indicated CHECKED BY: EM/GR DRAWING NUMBER: S20023 A503

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8395 JANE ST, SUITE 202 VAUGHAN, ONTARIO. L4K 5Y2 PHONE: 905.417.5515 FAX: 905.417.5517

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12599 Hwy 50 Ltd.

MIXED USE DEVELOPMENT

12563 & 12599 HWY 50 BOLTON - ONTARIO

DRAWING TITLE:

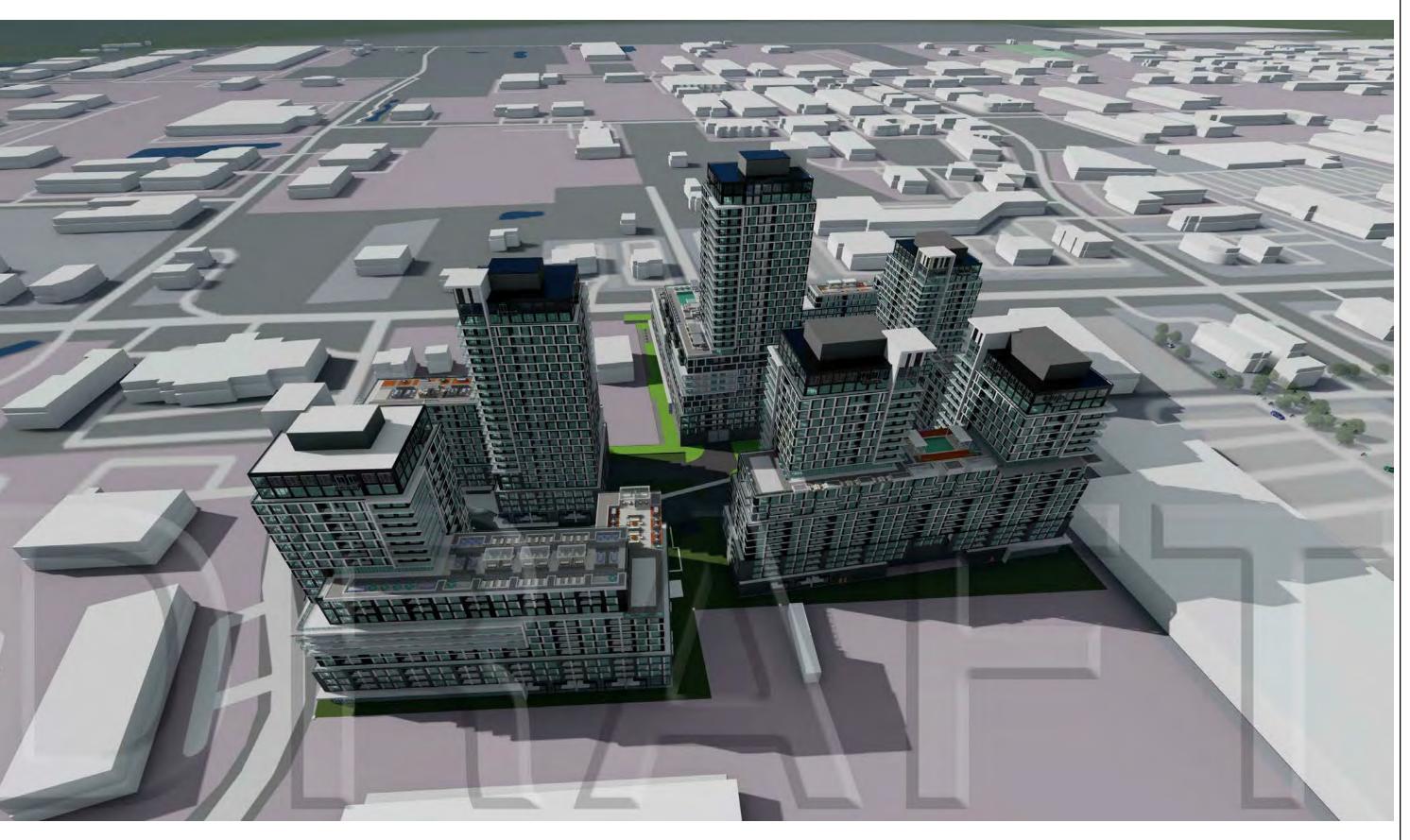
DATE: 02/18/21 DRAWN BY: EM/FK PROJECT NUMBER:



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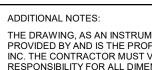
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DRAWING TITLE:

PERSPECTIVES 01

S20023	A601
PROJECT NUMBER:	DRAWING NUMBER:
DRAWN BY: EM	CHECKED BY: EM/GR
DATE: 12/09/20	SCALE:





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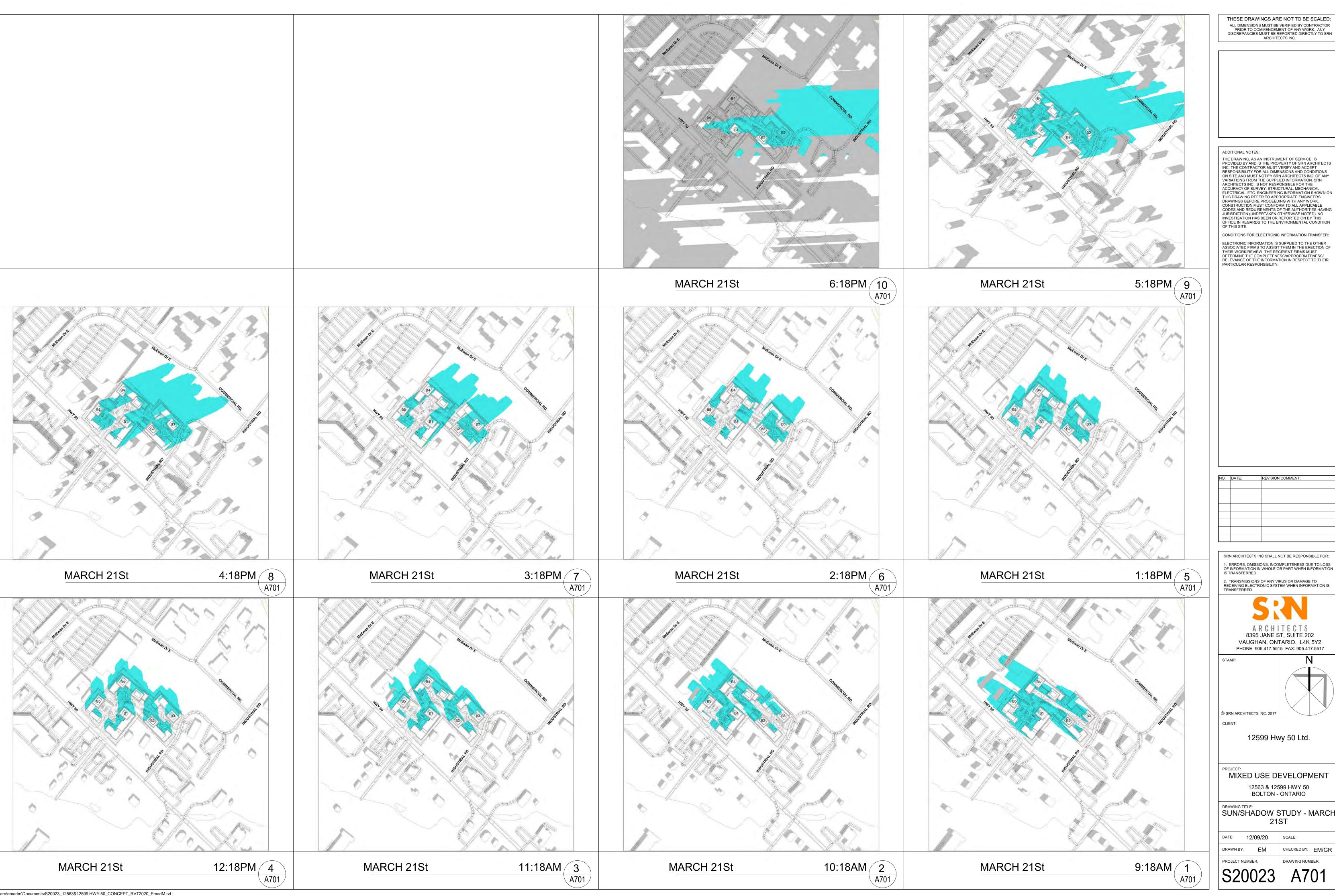
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PERSPECTIVES 01

12/09/20 DRAWN BY: CHECKED BY: EM/GR PROJECT NUMBER: DRAWING NUMBER: A602



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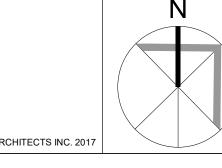
CONDITIONS FOR ELECTRONIC INFORMATION TRANSFER:

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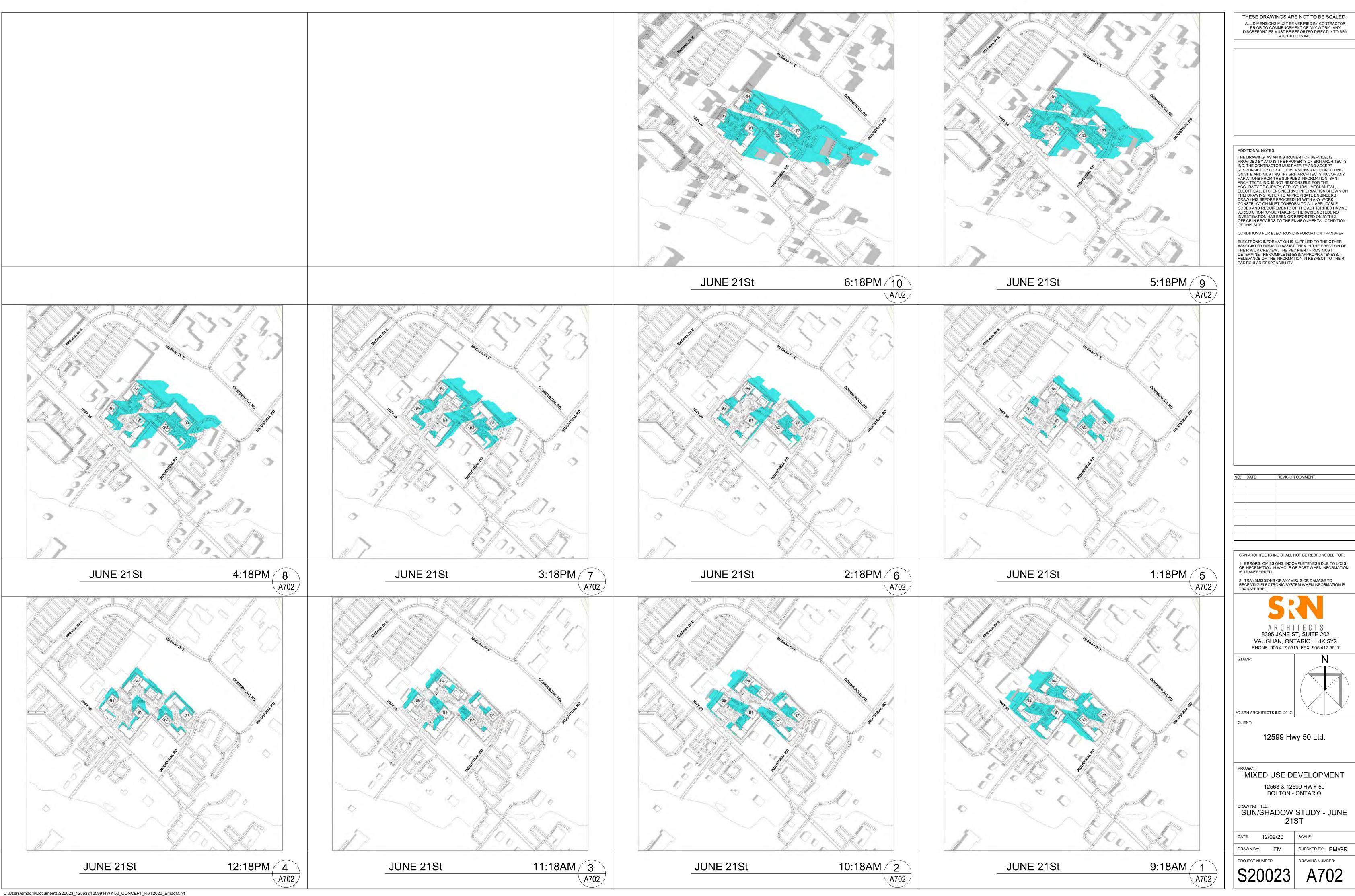
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12563 & 12599 HWY 50 BOLTON - ONTARIO

SUN/SHADOW STUDY - MARCH 21ST

CHECKED BY: EM/GR DRAWING NUMBER: A701

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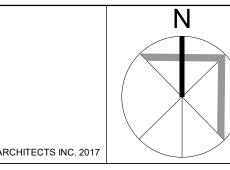
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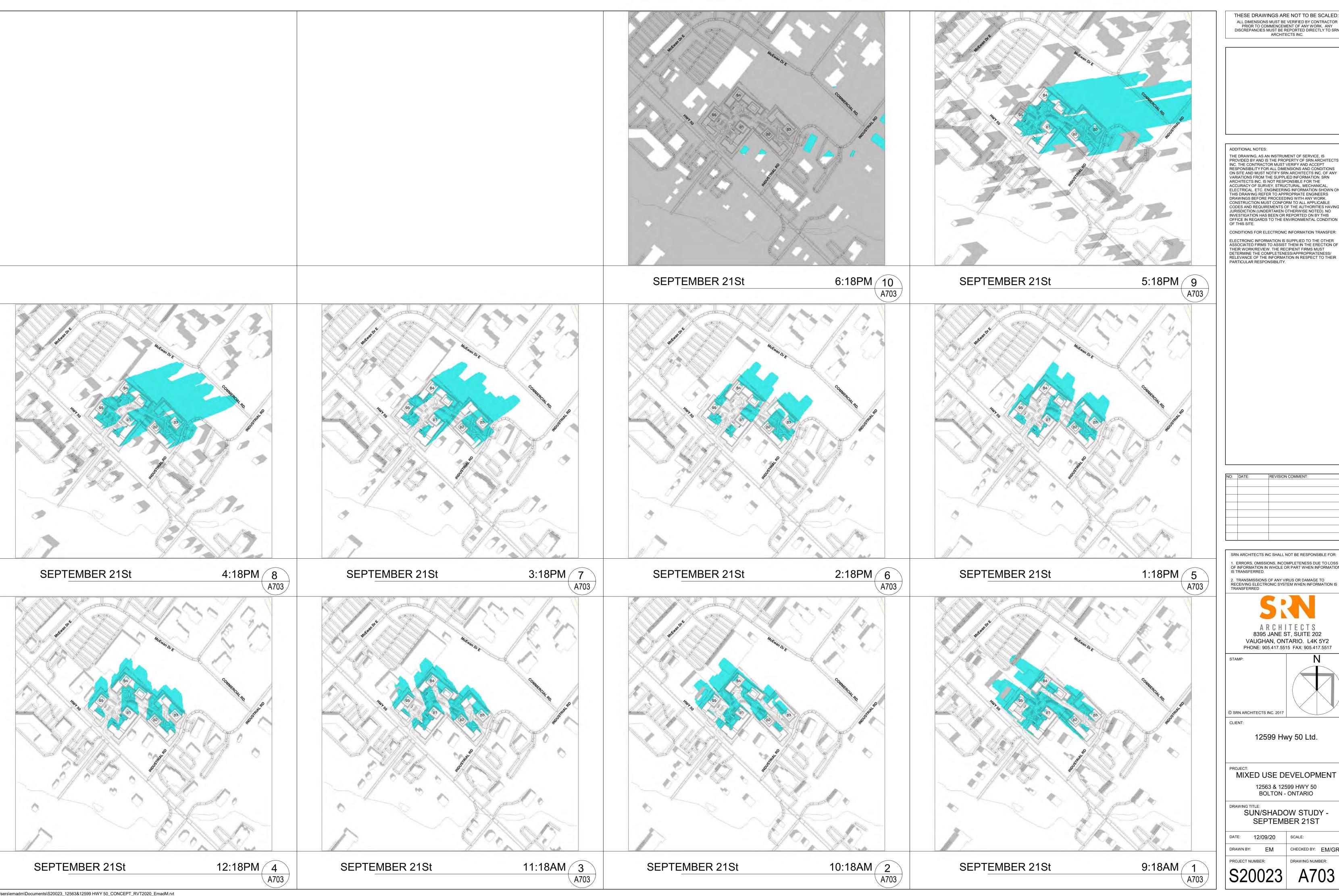
2. TRANSMISSIONS OF ANY VIRUS OR DAMAGE TO RECEIVING ELECTRONIC SYSTEM WHEN INFORMATION IS TRANSFERRED

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A702



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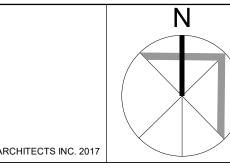
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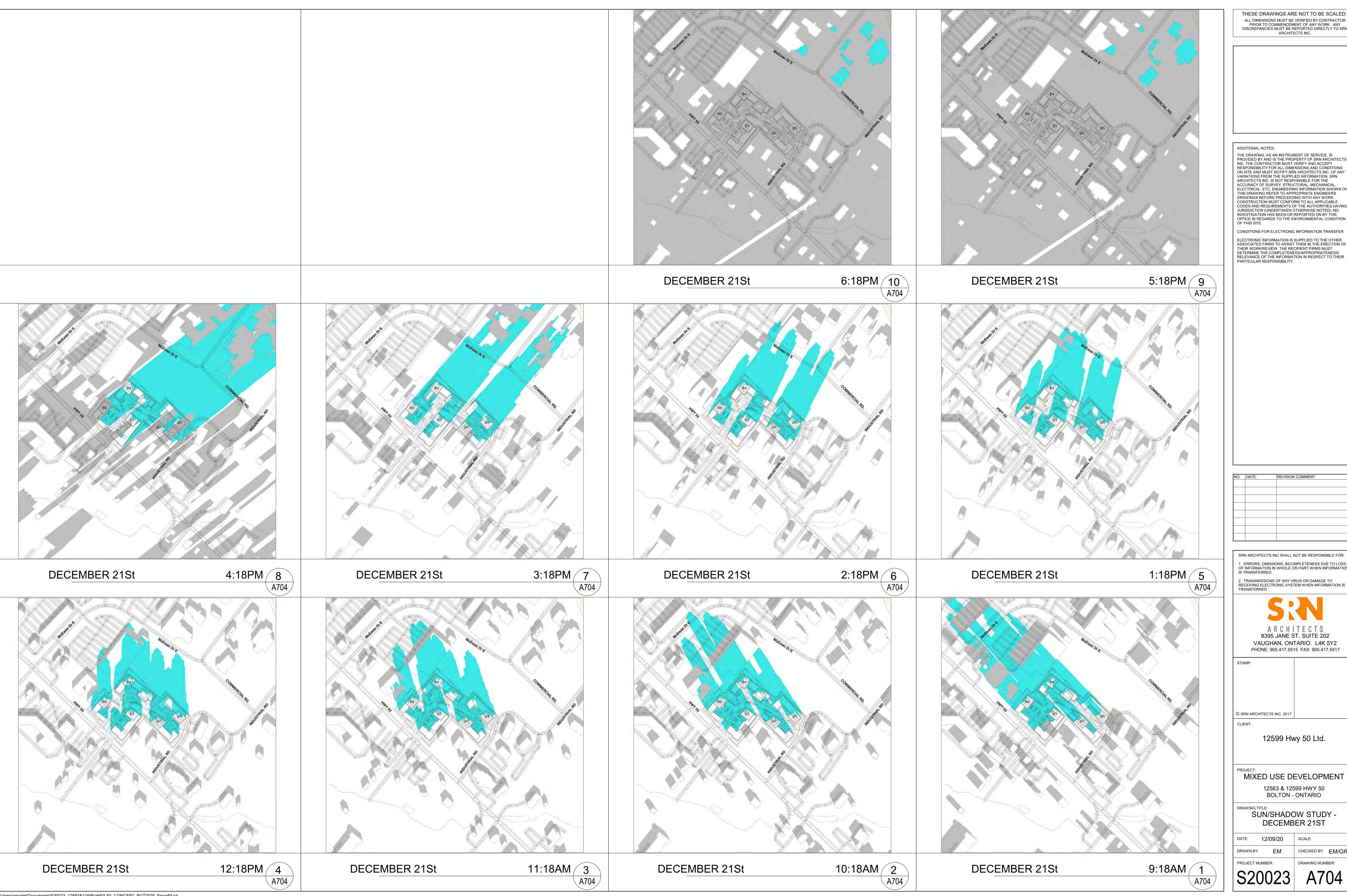
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SUN/SHADOW STUDY -SEPTEMBER 21ST

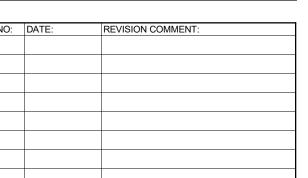
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 IS TRANSFERRED.

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

SUN/SHADOW STUDY -DECEMBER 21ST

CHECKED BY: EM/GR DRAWING NUMBER: A704



Appendix B - Borehole Logs (Watters, 2020)



Borehole No: BH102(MW)

Project No.: 16-0053.02 Client: Verdi Alliance

Location: 12563 Highway 50. Bolton Ground Elevation: 16-0053.02

UTM Coordinate: Total Depth: 6.10 m

Logged By: B. Poole **Project Manager:** F. Tawawala

		SUBSURFACE PROFILE				SAMP	LE			
Depth	Symbol	Description	Depth/Elev.	Number	Type	Blow Count	Recovery %		Lab Submitted	Well Completion Details
0 ft m		Ground Surface	0.0							F
2-		Asphalt- 0.05m Fill- trace silt, trace oxidation, brown/black in colour, moist, no odour, no staining.	-0.6	1	SS	4-4-3-3	83	0-0	×	Silica Sand Concrete
-		Silt, Clayey- trace gravel, trace	0.2						_	once 8
6 10 11 12 11 11 11 11 11 11 11 11 11 11 11		oxidation, brown and grey, moist, no odour, no staining.		2	SS	3-5-5-9	88	0-0		#3 Silica (Conci
‡									1	-
6 1 2				3	SS	4-8-12-15	100	0-0		Bentonite
‡		Very stiff at 2.3m.								Be Be
8 + + + + + + + + + + + + + + + + + + +				4	SS	5-8-14-22	100	0-0	×	
10 = -	\parallel	Becomes hard and more grey at 3.8m.		5	SS	8-14-20-25	88	0-0	×	▼
12	\mathcal{M}									Silica
'- +									-	¥
14				6	SS	4-10-14-20	100	0-0		Screen
		Clay- pliable, trace gravel, trace silt,	-4.6 1.4						1	
16		grey, no odour, no staining.		7	SS	4-6-10-12	100	0-0	×	- 2" Slot 10'
1									1	<u> </u>
18-				8	SS	3-10-11-11	58	0-0		- - - - - - -
20-6			-6.1 1.9						1	
H	1		1.9	L			L	l		L

Drilled By: Geo Environmental Drilling

Drill Method: HSA
Drill Date: May 11, 2016

Hole Size: 8.75"

Screening Tool: Eagle 2



Borehole No: BH104(MW)

Project No.: 16-0053.02 Client: Verdi Alliance

Location: 12563 Highway 50. Bolton **Ground Elevation:** 16-0053.02

UTM Coordinate: Total Depth: 6.10 m

Logged By: B. Poole **Project Manager:** F. Tawawala

Description Description				SUBSURFACE PROFILE				SAMP				
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×			Symbol	Description	Depth/Elev.	Number	Type	Blow Count			Lab Submitted	
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×		0 ft m	-		0.0							7
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×				brown, moist, organic odour. Fill-silt, trace clay, moist, no odour, no	-0.6	1	SS	0-1-1-4	83	0-0	×	sand ete
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×		2			0.2]	nor
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×		4	\prod	oxidation, rock fragments present, brown and grey, moist, no odour, no		2	SS	4-7-18-22	58	0-0	×	#3 Silic Co Co
14 14 14 16 18 18 18 18 18 18 18		<u> </u>]	
14 14 14 16 18 18 18 18 18 18 18		6 - 2	1	1.5m. approximately 0.025m thick.		3	SS	4-9-12-16	88	0-0	×	
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×		81111111		Becomes darker brown at 2.3m.		4	SS	7-12-18-25	96	0-0		_ Be
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×		10 🕂										모
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×		12 -				5	SS	7-12-19-21	91	0-0		Silica
moist, no odour, no staining. 6 SS 4-6-9-10 79 0-0 Becomes more pliable at 4.6m. 7 SS 3-5-7-7 45 0-0 × 18 SS 2-5-8-11 75 0-0 ×		<u>}</u>		Clay- trace gravel, trace silt, grey	-3.8 1.2						-	¥ [-
18— 8 SS 2-5-8-11 75 0-0 ×				moist, no odour, no staining.		6	SS	4-6-9-10	79	0-0		Screen -
18— 8 SS 2-5-8-11 75 0-0 ×		‡		Becomes more pliable at 4.6m.								
8 SS 2-5-8-11 75 0-0 ×		16 T				7	SS	3-5-7-7	45	0-0	×	- 2"
18		}									1	
		18 				8	SS	2-5-8-11	75	0-0	×	
20 - 6	;	20 = 6			-6.1 1.9							

Drilled By: Geo Environmental Drilling

Drill Method: HSA
Drill Date: May 11, 2016

Hole Size: 8.75"

Screening Tool: Eagle 2



Borehole No: BH107(MW)

Project No.: 16-0053.02 Client: Verdi Alliance

Location: 12563 Highway 50. Bolton **Ground Elevation:** 16-0053.02

UTM Coordinate: Total Depth: 6.10 m

Logged By: B. Poole **Project Manager:** F. Tawawala

Description The part of the	
Ground Surface Fill- sand and gravel, trace rootlets, moist, black, brown and grey, no odour no staining. Trace clay and silt found at 0.8m. Silt, Clayey- trace oxidation, trace sand, grey and brown moist, no odour, and gravel, trace rootlets, moist, black, brown and grey, no odour no staining. Trace clay and silt found at 0.8m. 2 SS 1-2-2-3 50 0-0 Silt, Clayey- trace oxidation, trace sand, grey and brown moist, no odour, and grey and brown moist, no odour, and grey and brown moist, no odour, and grey and grey and grey and brown moist, no odour, and grey and g	completion etails
Fill- sand and gravel, trace rootlets, moist, black, brown and grey, no odour no staining. Trace clay and silt found at 0.8m. 2 SS 1-2-2-3 50 0-0 Silt, Clayey- trace oxidation, trace sand, grey and brown moist, no odour, and gravel, trace rootlets, moist, black, brown and grey, no odour no staining. Trace clay and silt found at 0.8m.	
2 SS 1-2-2-3 50 0-0 × Silt, Clayey- trace oxidation, trace sand, grey and brown moist, no odour,	
Silt, Clayey- trace oxidation, trace sand, grey and brown moist, no odour,	Sing Sing
Silt, Clayey- trace oxidation, trace sand, grey and brown moist, no odour,	1" Steel Casing
sand, grey and brown moist, no odour,	
said, grey and brown moist, no ododr, no staining. 3 SS 1-3-3-3 50 0-0 × given the staining.	
Trace gravel at 2.3m.	
8 - 4 SS 2-4-7-11 100 0-0	
Becomes more dense and grey at 3m.	
10 - 5 SS 8-12-17-25 100 5-0 PBS BS BS 8-12-17-25 100 5-0 BS	7
Clay- trace oxidation, grey and brown,	<u> </u>
6 SS 8-12-16-22 100 5-0	Screen —
Becomes more pliable at 4.6m.	
7 SS 7-8-10-15 50 5-0 × 8 SS 5-6-8-11 58 5-0 ×	- 2" Slot 10'
	-
18	- - - - - - - -
20 - 6	

Drilled By: Geo Environmental Drilling

Drill Method: HSA
Drill Date: May 10, 2016

Hole Size: 8.75"

Screening Tool: Eagle 2



Borehole No: BH108(MW)

Project No.: 16-0053.02 Client: Verdi Alliance

Location: 12563 Highway 50. Bolton **Ground Elevation:** 16-0053.02

UTM Coordinate: Total Depth: 6.10 m

Logged By: B. Poole **Project Manager:** F. Tawawala

		SUBSURFACE PROFILE				SAMP	LE			
Depth	Symbol	Description	Depth/Elev.	Number	Type	Blow Count	Recovery %		Lab Submitted	Well Completion Details
oft m		Ground Surface	0.0							
ft m 0 1		Fill- sand and gravel, trace silt, trace clay, trace brick, cobbles present, brown and black, moist, no odour, no staining.	0.0 -0.6	1	SS	3-2-3-4	12.5	0-0		Sand Tete T
- 1		Silt, Clayey- trace gravel, trace	0.2							sa 8
4	\mathbb{R}	oxidation, trace sand, brown and grey, moist, no odour, no staining.		2	SS	2-2-4-6	100	0-0		#3 Silica Sand-Concrete
	بلل	Olavi tasas avasisli tasas silt tasas	-1.5 0.5							
6 - 2		Clay- trace gravel, trace silt, trace oxidation, brown, moist, no odour, no staining.	0.0	3	SS	5-9-11-15	83	0-0		Bentonite
8 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Becomes more grey and dense at 2.3m.		4	SS	8-12-17-22	100	0-0		P P P P P P P P P P P P P P P P P P P
10 1				5	SS	6-11-16-20	100	0-0		▼ Sand
12					00	0-11-10-20	100	0-0		#3 Silica
14				6	SS	7-10-14-18	100	0-0		Screen
16-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Becomes more pliable at 4.6m.		7	SS	6-8-9-12	75	0-0	×	- 2" Slot 10"
							-		1	
				8	SS	6-12-10-14	54	0-0	×	- - - - -
20 = 6			-6.1 1.9							

Drilled By: Geo Environmental Drilling

Drill Method: HSA
Drill Date: May 10, 2016

Hole Size: 8.75"

Screening Tool: Eagle 2



Borehole No: BH112(MW)

Project No.: 16-0053.02 Client: Verdi Alliance

Location: 12563 Highway 50. Bolton **Ground Elevation:** 16-0053.02

UTM Coordinate: Total Depth: 6.10 m

Logged By: B. Poole **Project Manager:** F. Tawawala

		SUBSURFACE PROFILE				SAMP	LE			
Depth	Symbol	Description	Depth/Elev.	Number	Type	Blow Count	Recovery %		Lab Submitted	Well Completion Details
0 ft m		Ground Surface	0.0							-
2-		Fill- sand and gravel, trace silt, trace clay, trace brick, brown and black, moist, no odour, no staining. Silt, Clayey- trace gravel, trace	0.0	1	SS	4-3-3-3	79	0-0	×	Sand
ft m 0 2 4 4 10 12 11 12 12		oxidation, trace sand, brown and grey, moist, no odour, no staining.		2	SS	3-4-7-11	92	0-0		#3 Silica Sand-Concrete Concrete
6 1 2				3	SS	4-10-14-19	92	0-0		Bentonite
]										Ber
87777				4	SS	7-14-21-29	100	0-0		
10 =]	_
12-		Increased oxidation at 3.8m.		5	SS	8-15-19-27	100	0-0		Silica Sand
= 4	+			6	SS	6-9-14-19	100	0-0	_	#3
14 -										Scr
‡		Clay- pliable trace gravel, trace silt,	-4.6 1.4							10,
16 18 18 18 18 18 18 18 18 18 18 18 18 18		trace oxidation, grey, moist, no odour, no staining.		7	SS	7-9-11-15	92	0-0	×	- 2" Slot
{		Trace oxidation present at 5.3m.								
18 -		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		8	SS	2-5-7-11	54	0-0	×	
20 - 6			-6.1 1.9						1	
20]			1.9							

Drilled By: Geo Environmental Drilling

Drill Method: HSA
Drill Date: May 11, 2016

Hole Size: 8.75"

Screening Tool: Eagle 2



Borehole No: BH2/MW2

Project No.: 19-0072.02 Client: Adrian Aguilar

Location: 12599 Highway 50 Bolton, Ontario Ground Elevation: 0

Total Depth: 6.86m (22.5ft)
Project Manager: RW/BE

Logged By: IM

SAMPLE SUBSURFACE PROFILE Lab Submitted **Borehole** Completion Vapour (CCG / PID) **Blow Count** Depth/Elev. Description Recovery **Details** Number Symbol Depth Type 0 ft m **Ground Surface** 0.0 Asphalt FILL: sand, gravel, light brown, no stain, no odour 1. SS 15-7-2-3 16.7 0/0 Concrete 2--0.8 Steel Casing 0.8 SILTY CLAY: some sand, oxidation, greenish-gray, dry, 3 soft, no stain, no odour SS 3-1-2-5 66.7 0/0 Х 4 Bentonite 2019)1.07m 5 6 traces of sand, brown mottled with gray, black specks, 3 SS 3-5-9-15 83 0/0 2 firm, no stain, no odour (June 25, 7 8 some sand and gravel, brown, very stiff, no stain, no SS 4 5-13-20-30 10 0/0 9 odour 3 10 #3 Silca Sand 11 traces of sand and gravel, some oxidation, brown with SS 4-9-17-24 100 0/0 dark gray specks, stiff, no stain, no odour 12 13traces of sand, firm 6 SS 3-8-15-22 100 0/0 14 15 16 7 SS some sand, trace organics, trace gravel, brown 2-9-12-14 100 0/1 Х Slot 10 Screen becoming gray, stiff, no stain, no odour 17 18 some sand and gravel, gray becoming brown 8 SS 10-11-8-11 50 0/1 19 20 21 some sand, grayish brown, stiff, no stain, no odour SS 2-4-6-19 12.5 0/1 22 6.9 - 7 23-End of Borehole

Drilled By: Tri-Phase Group

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: June 18, 2019

24

Hole Size: 0.20m (8in)
Screening Tool: RKI Eagle 2



Borehole No: BH4/MW4

Project No.: 19-0072.02 Client: Adrian Aguilar

Location: 12599 Highway 50 Bolton, Ontario Ground Elevation: 0

Total Depth: 6.98m (22.9ft)

Logged By: IM Project Manager: RW/BE

		SUBSURFACE PROFILE				SAMPL	.E					
Depth	Symbol	Description	Depth/Elev.	Number	Туре	Blow Count	Recovery %	Vapour (CCG / PID)	Lab Submitted	Coi	orehole npletic Details	
0 ft m		Ground Surface	0.0									_
1- 2-		Asphalt FILL: white sand, gravel, brown silt, no stain, no odour	-0.8	1	ss	7-5-3-3	16.7	0/0	x	Concrete		₹ 1 6
3 1		FILL: silty sand, some gravel, brown, very loose	-1.4	2	ss	9-9-12-16	4	0/1				1" Steel Casing
5- 6- - 2		SILTY CLAY: some oxidation, brown, stiff, no stain, no odour	1.4	3	SS	5-10-16-23	100	0/0	x	Bentonite	54m [—] ··•	
7- 8- 9-		some sand and gravel, trace roots, oxidation, brown, very stiff, no stain, no odour		4	ss	8-14-22-31	75	0/0			(June 25, 2019) 1.54m	
11-		some gravel, trace sand, oxidation, grayish-brown, slightly moist, stiff		5	SS	6-12-16-30	100	0/0		#3 Silca Sand	n()	
134		trace gravel, firm		6	SS	2-5-10-14	91.7	0/0		#3		T
15— 16— — 5 17—		trace gravel, some oxidation, brown becoming gray		7	ss	2-3-6-9	100	0/0				10 Screen
18-		gray with some brown streaks		8	ss	2-5-8-12	100	0/0	x			—2" Slot 10 Sc
20- 0 21- 22-		trace gravel, some oxidation, gray, no stain, no odour		9	SS	2-3-6-7	100	0/1				
23—7 24—		End of Borehole	-7.0 7.0									¥

Drilled By: Tri-Phase Group

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: June 19, 2019

Hole Size: 0.20m (8in)
Screening Tool: RKI Eagle 2



Borehole No: BH1/MW1

Project No.: 19-0072.02 Client: Adrian Aguilar

Location: 12599 Highway 50 Bolton, Ontario **Ground Elevation:** 0

Total Depth: 6.89m (22.6ft)

Logged By: IM

Project Manager: RW/BE

			SUBSURFACE PROFILE				SAMPL	-E					
Depth		Symbol	Description	Depth/Elev.	Number	Туре	Blow Count	Recovery %	Vapour (CCG / PID)	Lab Submitted	Cor	orehole npletio Jetails	
o ft	m - 0		Ground Surface	0.0									=
1-2-			Asphalt FILL: sand, gravel, brown, no stain, no odour SILTY CLAY: grayish brown, dry, soft, no stain, no odour	0.0	1	ss	6-5-2-5	50	0/0	x	Concrete		sing ←
3- <u>_</u>	- 1		traces of gravel, grayish-brown, firm, no stain, no odour		2	SS	3-5-10-15	100	0/0		Bentonite (1" Steel Casing
5- 6- 7-	- 2		some oxidation, brown mottled with gray, stiff, no stain, no odour		3	SS	4-9-17-24	100	0/0		Bent		
8- 9-			traces of gravel, brown mottled with gray, very stiff, no stain, no odour		4	ss	7-16-33-39	100	0/0				
11-	- 3		some oxidation		5	ss	12-16-22-31	100	0/0		#3 Silca Sand		T
13— 14—	- 4		traces of sand, grayish brown, stiff, no stain, no odour		6	SS	5-13-17-23	25	5/0		#3) 3.74m	
15- 16- 17-	- 5		some oxidation, gray, moist, firm, no stain, no odour		7	SS	5-7-9-14	100	0/0	x		(June 25, 2019) 3.74m	Slot 10 Screen
18-					8	SS	3-6-8-11	100	0/0				2" Slot
20-	- 6		firm		9	SS	4-6-10-13	100	0/0				
22- 23- 24-	- 7	##	End of Borehole	-6.9 6.9									*

Drilled By: Tri-Phase Group

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: June 18, 2019

Hole Size: 0.20m (8in) Screening Tool: RKI Eagle 2



Borehole No: BH3/MW3

Project No.: 19-0072.02 Client: Adrian Aguilar

Location: 12599 Highway 50 Bolton, Ontario Grou

Ground Elevation: 0

Total Depth: 6.83m (22.4ft)
Project Manager: RW/BE

Logged By: IM

		SUBSURFACE PROFILE				SAMPL	.E				
Depth	Symbol	Description	Depth/Elev.	Number	Туре	Blow Count	Recovery %	Vapour (CCG / PID)	Lab Submitted	Boreho Complet Detail	ion
0 ft m		Ground Surface	0.0							7	
1-2-		Asphalt FILL: sand, gravel, brown, no stain, no odour	-0.8	1	SS	8-5-4-5	12.5	0/0	x	Concrete	v=≥3
31		SILTY CLAY: trace sand, oxidation, grayish-brown, moist, soft, no stain, no odour	0.8	2	ss	2-3-4-4	83.3	0/0	x		1" Steel Casing
5- 6- - 2 7-		traces of sand and gravel, oxidation, brown mottled with gray, dry, stiff, no stain, no odour		3	SS	3-6-12-16	100	0/0		Bentonite	
8- 9-		some sand and gravel, brown some gray, very stiff		4	ss	7-12-18-31	100	0/0			
10-3		trace coarse gravel, oxidation		5	SS	4-12-21-30	100	0/0		#3 Silca Sand	
134		slightly moist, stiff		6	SS	4-8-13-18	100	0/0		#_	T
15— 16— — 5 17—		trace coarse gravel, trace roots, brown becoming gray		7	SS	3-8-12-17	100	0/0			Slot 10 Screen ——
18-		some oxidation, gray, firm		8	SS	3-5-11-14	100	0/0	x		2" Slot 10
20-		traces of sand and coarse gravel, brownish-gray, stiff, no stain, no odour	-6.8	9	SS	4-7-10-13	100	0/0			
23—7 24—		End of Borehole	-6.8 6.8	-							<u></u>

Drilled By: Tri-Phase Group

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: June 19, 2019

Hole Size: 0.20m (8in) Screening Tool: RKI Eagle 2



Borehole No: BH20-01

Project No.: 20-0049.02 **Client:** 12563 Hwy 50 Ltd.

Location: 2 Industrial Road, Bolton ON

Logged By: IM/KS

Ground Elevation: N/A
Total Depth: 6.1 m (20 ft)
Project Manager: RW/BE

		SUBSURFACE PROFILE				SAMPL	.E			
Depth	Symbol	Description	Depth/Elev.	Number	Туре	Blow Count	Recovery %	Vapour (CCG / PID)	Lab Submitted	Borehole Completion Details
0 ft m		Ground Surface								
	$\times\!\!\!\times\!\!\!\times$	Asphalt pavement	0.0							700 700
1-		FILL: sand, gravel, light to dark brown, no stain, no odour		1	ss	21-10-4-5	20	10/50	x	
2-	>>>>	Clayey silt, trace sand, trace gravel, light to dark brown, dry to moist, stiff, no stain, no							1	i. Bui
3-		odour	0.8							Cas
4-		SILT: trace clay, trace sand, trace gravel, brown mottled with grey, moist to dry, very stiff, no stain, no odour		2	ss	4-10-16-18	18	5/30	x	Ite
5-		turan ta anno alau turan manual burum	1.5						4	Bentonite
6-		trace to some clay, trace gravel, brown mottled grey, moist to dry, hard, no stain, no odour	1.0	3	ss	8-13-18-25	24	5/30		Be
7-									+ 1	
8-		light brown to light grey, moist to dry, hard, no stain, no odour	2.3	4	ss	30-20-29-27	24	5/50	 x	
9-										
10-3									1	
11-	+	Clayey SILT: trace sand, trace gravel, some oxidation, dark brown to grey, moist, hard, no stain, no odour	3.0	5	ss	12-17-25-26	24	0/40		#3 Silca Sand
12-									1	3 Silc
13 - 4		light grey, very stiff, no stain, no odour	3.8	6	ss	8-10-15-22	24	0/40		5020
14									4	Scre
15-			4.6						+ 1	3.05
165	+			7	ss	7-7-13-17	24	10/40	x	(May 27 27 Slot 3.05 Screen
17-				_	\vdash				-	
18-		grey, moist, very stiff, no stain, no odour	5.3						1	
19-				8	ss	3-6-10-14	24	10/40		
20 - 6				<u> </u>						
20-		End of Borehole	6.1							- _
21-										
22-										

Drilled By: Pontil Drilling

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: May 19, 2020

Hole Size: 0.20 m (8 in)
Screening Tool: RKI Eagle 2



Borehole No: BH20-02

Project No.: 20-0049.02 **Client:** 12563 Hwy 50 Ltd.

Location: 2 Industrial Road, Bolton ON Ground

Logged By: IM/KS

Ground Elevation: N/A
Total Depth: 6.71 m (22 ft)

Project Manager: RW/BE

	SUBSURFACE PROFILE					SAMPL				
Depth	Symbol	Description	Depth/Elev.	Number	Туре	Blow Count	Recovery %	Vapour (CCG / PID)	Lab Submitted	Borehole Completion Details
0 ft m		Ground Surface								
1- 2-		Asphalt pavement FILL: sand, gravel, dark grey, moist, stiff, no stain, no odour	0.0	1	SS	6-6-6-4	11	5/50	x	■
31	*******	SILT: some clay, trace sand, trace gravel, light grey mottled with brown, dry to moist, stiff, no stain, no odour (possibly native)	0.8	2	SS	2-3-6-11	24	5/70	x	nite Steel Casing
5- 6- 7-		brown mottled with grey, very stiff, no stain, no odour	1.5	3	SS	9-11-16-16	24	0/50	x	Bentonite
8-		brown, some oxidation, very stiff, no stain, no odour	2.3	4	ss	8-11-19-23	24	5/50	x	
10 - 3		becoming grey, moist, hard, no stain, no odour	3.0	5	ss	13-18-26-25	24	5/50	-	#3 Silca Sand
13—4 14—		Clayey SILT: trace sand, trace gravel, grey, very stiff, moist, no stain, no odour	3.8	6	ss	5-18-12-14	24	0/50	-	050
15— 16— — 5			4.6	7	SS	4-8-10-15	18	5/70	-	(May 27, 2 (May 27, 2
18-			5.3	8	SS	4-6-9-12	24	5/40		
20 - 6			6.1	9	SS	5-6-12-13	24	10/90	x	□■□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
22- 23 7 24-		End of Borehole	6.7							

Drilled By: Pontil Drilling

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: May 19, 2020

Hole Size: 0.20 m (8 in) Screening Tool: RKI Eagle 2



Borehole No: BH20-03

Project No.: 20-0049.02 **Client:** 12563 Hwy 50 Ltd.

Location: 2 Industrial Road, Bolton ON Ground Elevation: N/A

Logged By: IM/KS

Total Depth: 6.71 m (22 ft)

Project Manager: RW/BE

SUBSURFACE PROFILE						SAMPL				
Depth	Symbol	Description		Number	Туре	Blow Count	Recovery %	Vapour (CCG / PID)	Lab Submitted	Borehole Completion Details
0 t m 0 1 - 2 -		Ground Surface FILL: sand, gravel, brown to black, very stiff, moist, no stain, no odour	0.0	1	ss	14-15-30-41	24	10/20	x	47
31		Clayey SILT: trace sand, trace roots, trace wood chips, brown to grey, moist, stiff, no stain, no odour	0.8	2	ss	3-3-7-8	22	5/70	x	onite Steel Casing
5- 6- - 2 7-		SILT: trace to some clay, trace sand, trace gravel, brown mottled with grey, very stiff, dry to moist, no stain, no odour	1.5	3	ss	6-9-14-16	24	5/60		Bentonite
8-9-		brown, moist, no stain, no odour	2.3	4	ss	7-11-14-21	24	5/60		
10 - 3		some clay, brown becoming grey, hard, dry to moist, no stain, no odour	3.0	5	SS	10-12-21-31	24	5/80	x	#3 Silca Sand
134		grey, very stiff	3.8	6	ss	8-14-14-20	24	0/50	x	
15- 16- - 5			4.6	7	ss	5-9-12-18	24	0/60	x	(May 27, 2020) 5.2m
18-			5.3	8	ss	5-10-12-14	11	0/70		
21-		wet	6.1	9	SS	4-14-9-12	24	0/60		
23 7		End of Borehole	6.7							

Drilled By: Pontil Drilling

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: May 19, 2020

Hole Size: 0.20 m (8 in)
Screening Tool: RKI Eagle 2



Borehole No: BH20-04

Project No.: 20-0049.02 **Client:** 12563 Hwy 50 Ltd.

Location: 2 Industrial Road, Bolton ON

Logged By: IM/KS

Ground Elevation: N/A
Total Depth: 6.1 m (20 ft)
Project Manager: RW/BE

		SUBSURFACE PROFILE				SAMPI						
Depth	Symbol	Description	Depth/Elev.	Number	Туре	Blow Count	Recovery %	Vapour (CCG / PID)	Lab Submitted	Cor	orehole npletic Details	
0 ft m	********	Ground Surface	0.0									
1-2-		FILL: sand, gravel, brown, hard, dry, no stain, no odour	0.0	1	SS	18-39-42-31	24	0/20	×	Concrete		eg → E
3 1	******	SILT: some clay, trace sand, trace gravel, brown mottled with grey, moist, stiff, no stain, no odour	0.8	2	ss	6-5-9-12	24	0/60	x			Steel Casing
5-		trace to some clay, very stiff, no stain, no	1.5						-	Bentonite		
62		odour (possibly native)		3	ss	7-12-13-19	24	0/20		Be		
8-		brown, some oxidation, hard, no stain, no odour	2.3	4	ss	9-16-21-30	24	0/20				
11-		becoming grey, dry to moist, hard, no stain, no odour	3.0	5	ss	13-17-25-33	24	0/40	x	#3 Silca Sand		1
		Clayey SILT: trace sand, trace gravel, grey,	3.8						-	#38		
13 - 4		some oxidation, moist, very stiff, no stain, no odour		6	ss	7-10-15-20	24	0/20			.2020) 5.16m ⁻	2" Slot 3.05 Screen
15-			4.6						-		202	3.05
165				7	ss	5-8-12-11	19	0/50	x		(May 27,	-2" Slot
17—			5.3]			
19-			3.3	8	ss	3-6-9-11	24	0/30				
21-		End of Borehole	6.1									# C .
22-												

Drilled By: Pontil Drilling

Drill Method: CME 75 Rubber Track Mount Hollow Stem Auger

Drill Date: May 20, 2020

Hole Size: 0.20 m (8 in)
Screening Tool: RKI Eagle 2



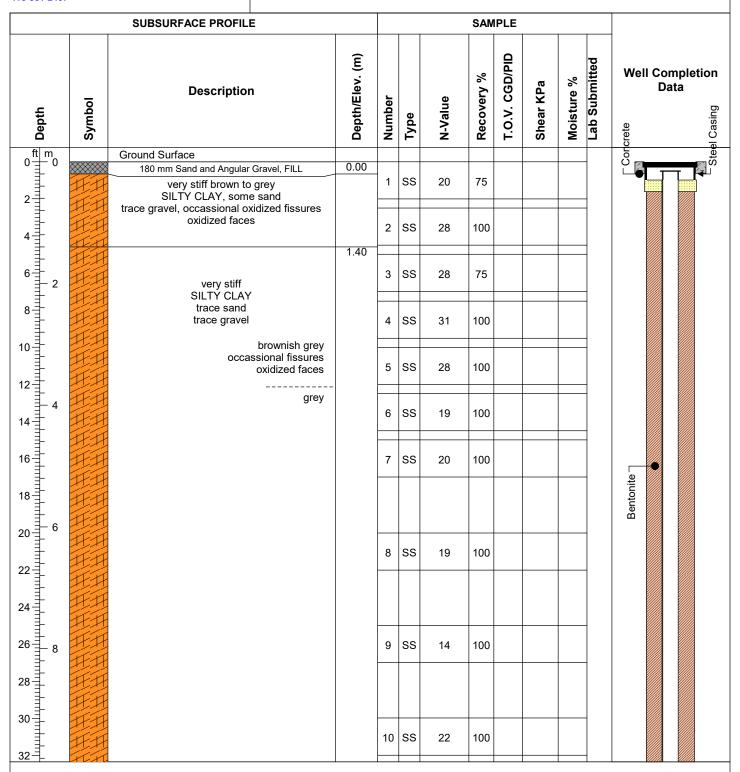
Borehole No: BH20-102(MW)

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A. Total Depth: 15.70 m/51.5 ft.

Logged By: T.A. Water Level:



Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-12- 07 & 08

Hole Size: 100 mm Mud Rotary

Screening Tool: Eagle II Sheet: 1 of 2



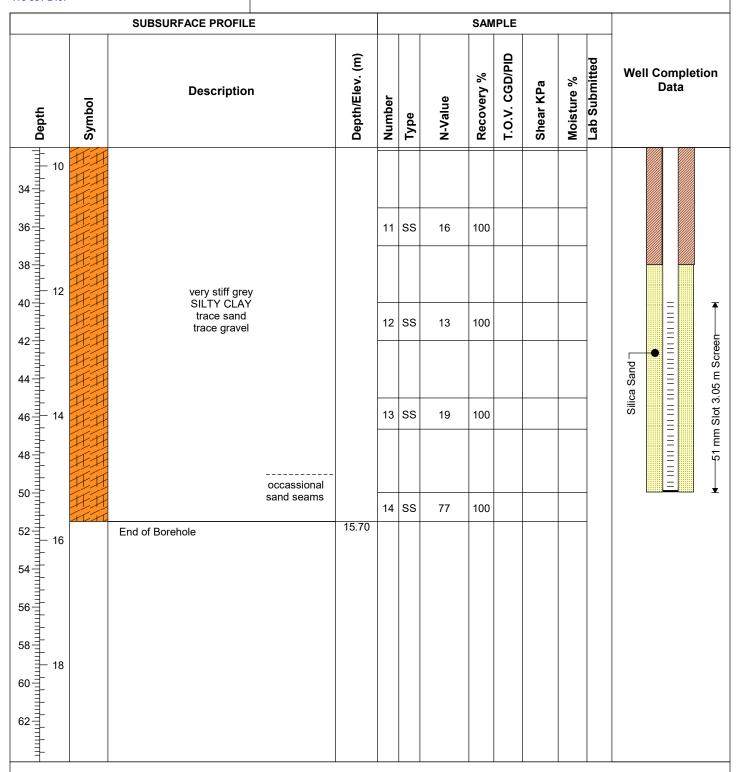
Borehole No: BH20-102(MW)

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A. Total Depth: 15.70 m/51.5 ft.

Logged By: T.A. Water Level:



Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-12-07 & 08

Hole Size: 100 mm Mud Rotary

Screening Tool: Eagle II



Borehole No: BH20-103(MW)

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A.

Total Depth: 15.85 m/52 ft.

Logged By: T.A. Water Level:

SAMPLE SUBSURFACE PROFILE T.O.V. CGD/PID Depth/Elev. (m) Lab Submitted **Well Completion** % Moisture % Shear KPa Data Description Recovery Symbol Number N-Value Depth Type ft m **Ground Surface** 0.00 compact layerd recyceled asphalt, silt, SS 80 25 clay, some sand, some gravel FILL 2 0.72 stiff brown veined grey SILTY CLAY, some sand 2 SS 7 75 trace gravel, occassional oxidized fissures oxidized faces 6 3 SS 75 11 2 2.44 4 SS 24 100 very stiff 10 SILTÝ CLAY trace sand 5 SS 28 100 trace gravel 12 brown some grey occassional fissures 6 SS 32 450 oxidized faces grey occasional fissures 16 7 SS 75 24 Bentonite 18 20 8 SS 19 75 22 grey 24 26 9 SS 10 28 30 10 SS 75 16 32

Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-12-03 & 04

Hole Size: 100 mm Mud Rotary

Screening Tool: Eagle II



Borehole No: BH20-103(MW)

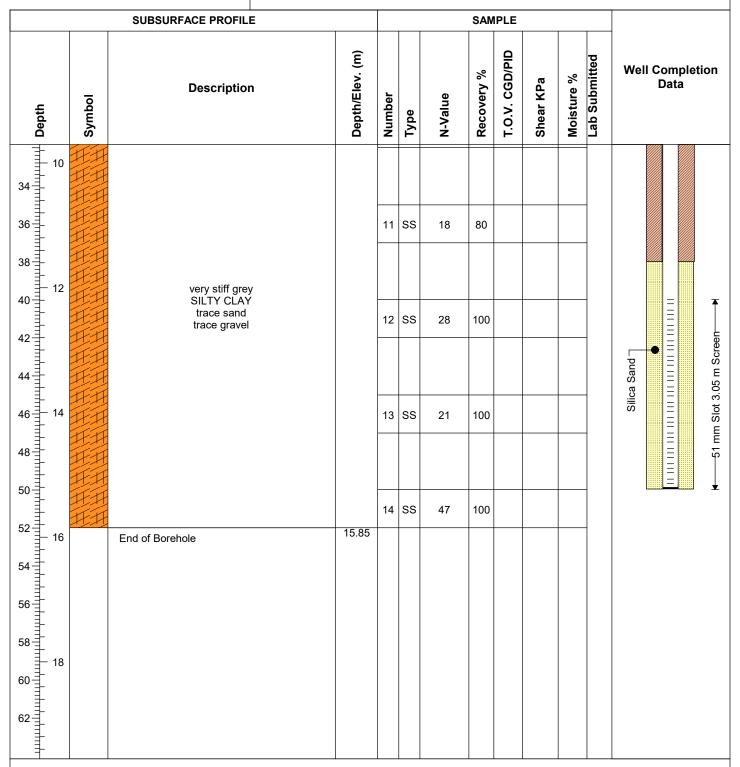
Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A.

Total Depth: 15.85 m/52 ft.

Logged By: T.A. Water Level:



Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-12-03 & 04

Hole Size: 100 mm Mud Rotary

Screening Tool: Eagle II



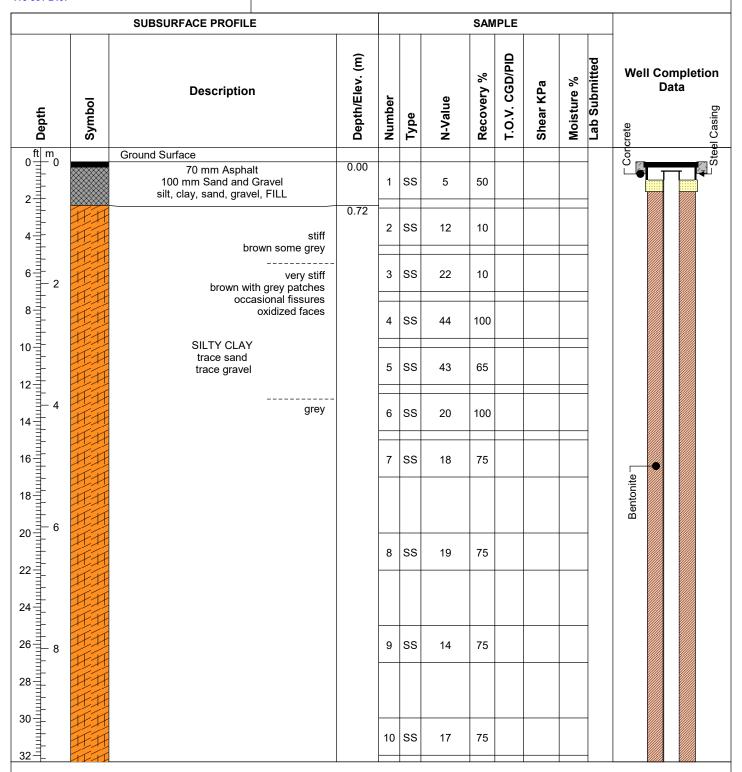
Borehole No: BH20-104(MW)

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A. Total Depth: 15.70 m/51.5 ft.

Logged By: T.A. Water Level:



Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-12-10

Hole Size: Hollow Augers 155 m

Screening Tool: Eagle II



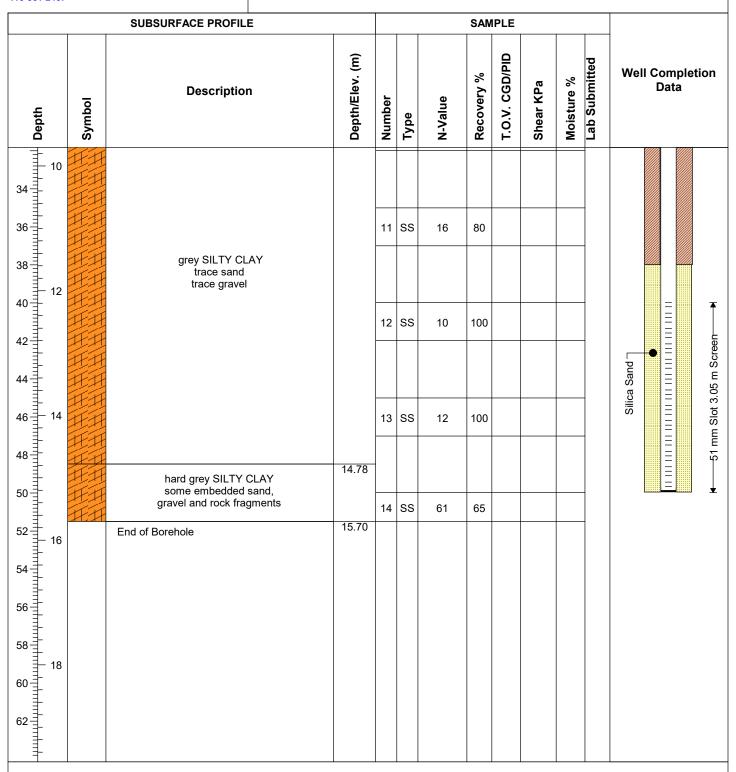
Borehole No: BH20-104(MW)

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A. Total Depth: 15.70 m/51.5 ft.

Logged By: T.A. Water Level:



Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-12-10

Hole Size: Hollow Augers 155 m

Screening Tool: Eagle II



Borehole No: BH20-106

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A. Total Depth: 27.72 m/90.96ft

Logged By: T.A. Water Level:

		SUBSURFACE PROFILE	SAMPLE									
Depth	Symbol	Description	Depth/Elev. (m)	Number	Туре	N-Value	Recovery %	T.O.V. CGD/PID	Shear KPa	Moisture %	Lab Submitted	Well Completion Data
0 = 0		Ground Surface	0.00									
2		60 mm Asphalt 380 mm Sand and Gravel	0.00	1	ss	16	70					
4 =				2	ss	15	75					
ft m 0 0 2 0 4 10 12 14 14 14 16 12 24 24 26 8	## ##	very stiff SILTY CLAY		3	ss	22	100					
8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		trace to some sand trace gravel		4	ss	27	100					
10 =		brown veined gre	₽y	5	ss	37	100					
14 =		occasional fissure oxidized face gre	es 	6	ss	17	80					
16=	##	gic		7	ss	28	100					
18 1 6												
20 = 1				8	ss	13	100					
24-	##											
26 8				9	ss	16	100					
30												
30 =	##			10	ss	18	100					

Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-11-30, 2020-12 01 & 02

Hole Size: 100 mm Mud Rotary Screening Tool: Eagle II



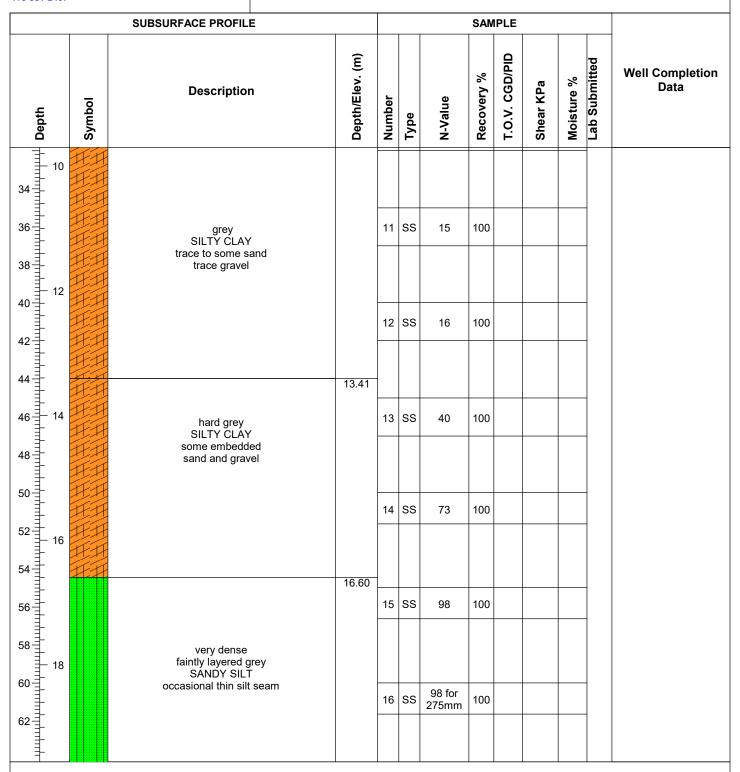
Borehole No: BH20-106

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A. Total Depth: 27.72 m/90.96ft

Logged By: T.A. Water Level:



Drilled By: Pontil Drilling, CME 55 Trackmount Rig Drill Method: Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-11-30, 2020-12 01 & 02

Hole Size: 100 mm Mud Rotary

Screening Tool: Eagle II



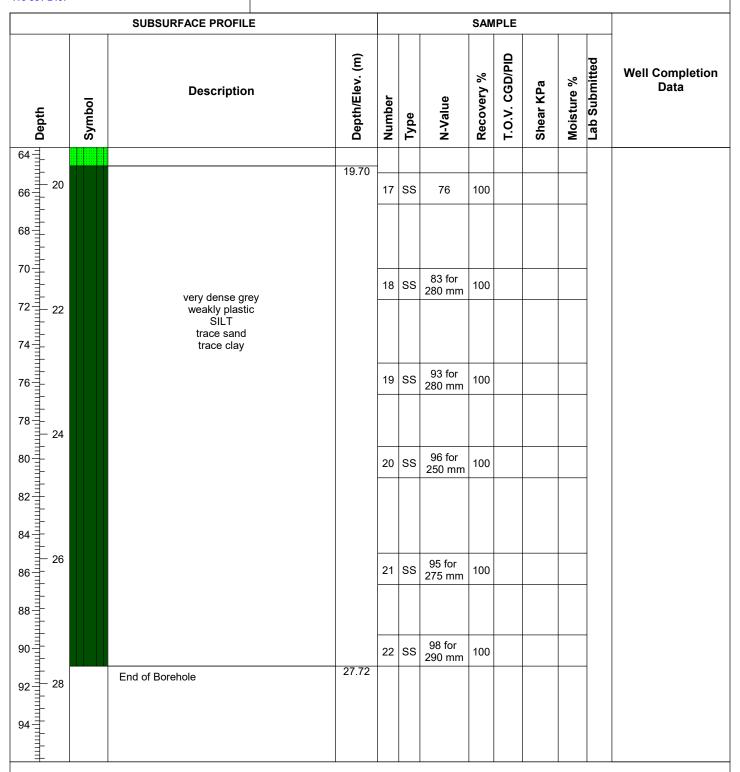
Borehole No: BH20-106

Project No.: 20-0132.04 Client: Verdi Alliance

Location: 1563 HWY 50 & 2 Industrial Rd, Bolton, ON Ground Elevation: 0

Project Manager: C.A. Total Depth: 27.72 m/90.96ft

Logged By: T.A. Water Level:



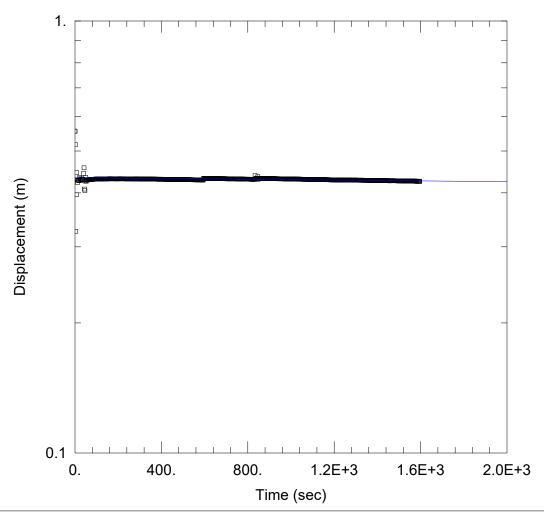
Drilled By: Pontil Drilling, CME 55 Trackmount Rig **Drill Method:** Hollow Augering & Mud Rotary Drilling

Drill Date: 2020-11-30, 2020-12 01 & 02

Hole Size: 100 mm Mud Rotary Screening Tool: Eagle II



Appendix C - AQTESOLV Analysis (Palmer, 2020)



WELL TEST ANALYSIS

Data Set: C:\Users\Nolan Boyes\Documents\Bolton BH1 FH.aqt

Date: 01/11/21 Time: 13:35:37

PROJECT INFORMATION

Company: Palmer

Client: 12563 and 12599 Hwy 50

Project: 2001507 Test Well: BH1

Test Date: Dec 17, 2020

AQUIFER DATA

Saturated Thickness: 4.25 m Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (New Well)

Initial Displacement: 0.5557 m

Total Well Penetration Depth: 4.25 m Screen Length: 3. m Well Radius: 0.0254 m

Casing Radius: 0.0254 m

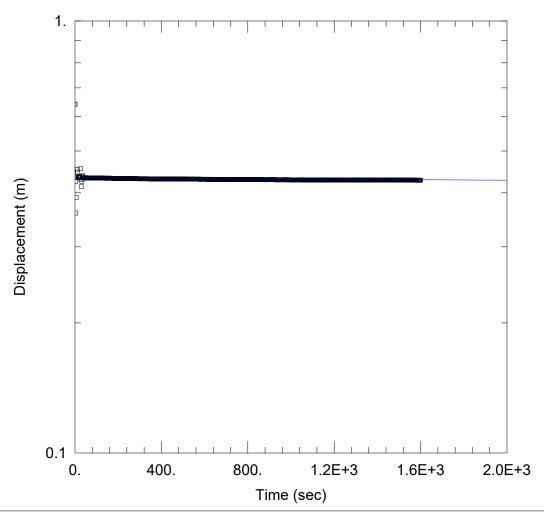
SOLUTION

Aquifer Model: Confined Solution Method: Hvorslev

K = 7.585E-9 m/sec

y0 = 0.4337 m

Static Water Column Height: 4.25 m



WELL TEST ANALYSIS

Data Set: C:\Users\Nolan Boyes\Documents\Bolton BH3 FH.aqt

Date: 01/11/21 Time: 13:35:53

PROJECT INFORMATION

Company: Palmer

Client: 12563 and 12599 Hwy 50

Project: 2001507 Test Well: BH3

Test Date: Dec 17, 2020

AQUIFER DATA

Saturated Thickness: 5.07 m Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (New Well)

Initial Displacement: 0.642 m Static Water Column Height: 5.07 m

Total Well Penetration Depth: 5.07 m Screen Length: 3. m Casing Radius: 0.0254 m Well Radius: 0.0254 m

SOLUTION

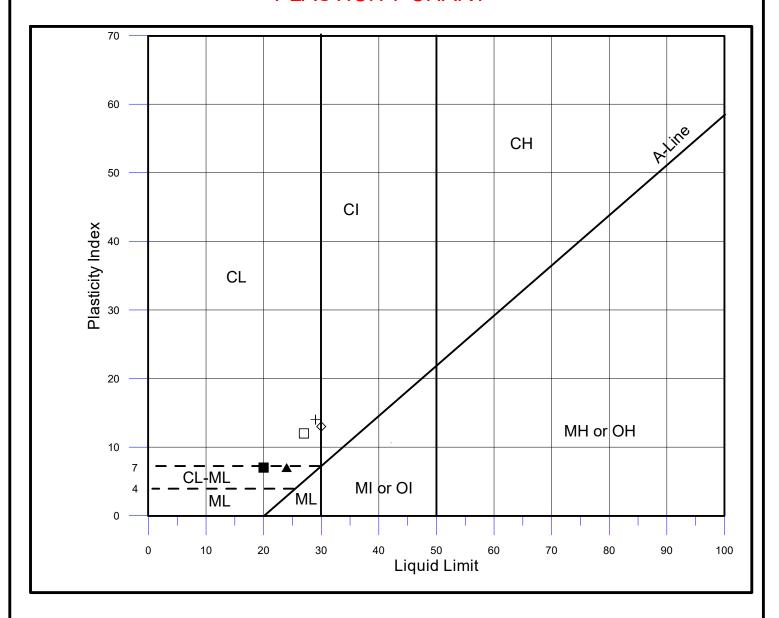
Aquifer Model: Confined Solution Method: Hvorslev

K = 4.722E-9 m/sec y0 = 0.4336 m



Appendix D - Grain Size Analysis (Terrapex, 2020)

PLASTICITY CHART



Client: Alston Geotechnical Consultants Inc. Project: Lab Testing Prj No 20-0132.04 Bolton

Ref. No.: CA20-085

Sample Symbol
BH106, Sample 4

BH106, Sample 7

BH106, Sample 11

BH106, Sample 13

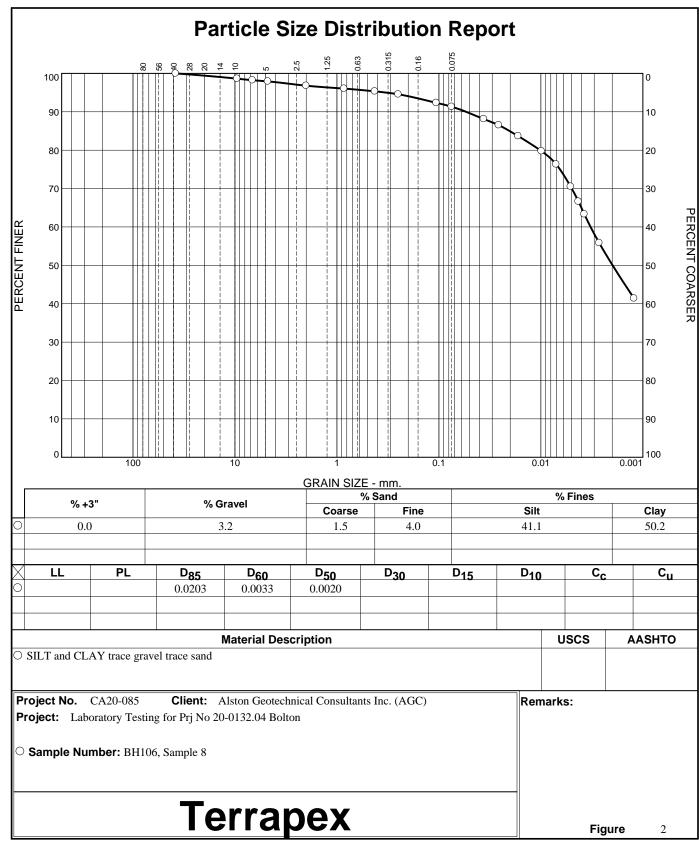
BH106, Sample 19

▲

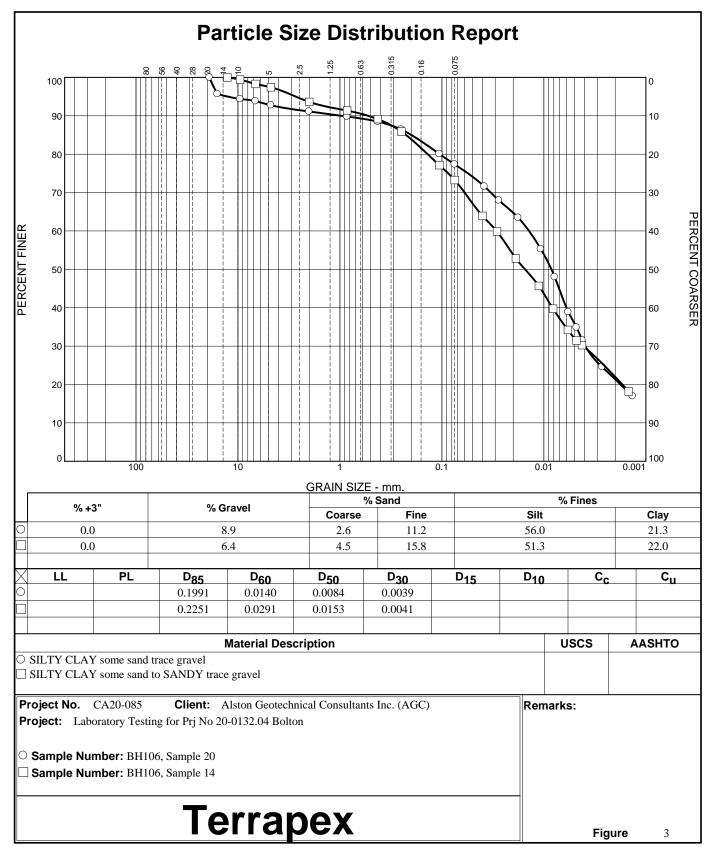
Remarks:



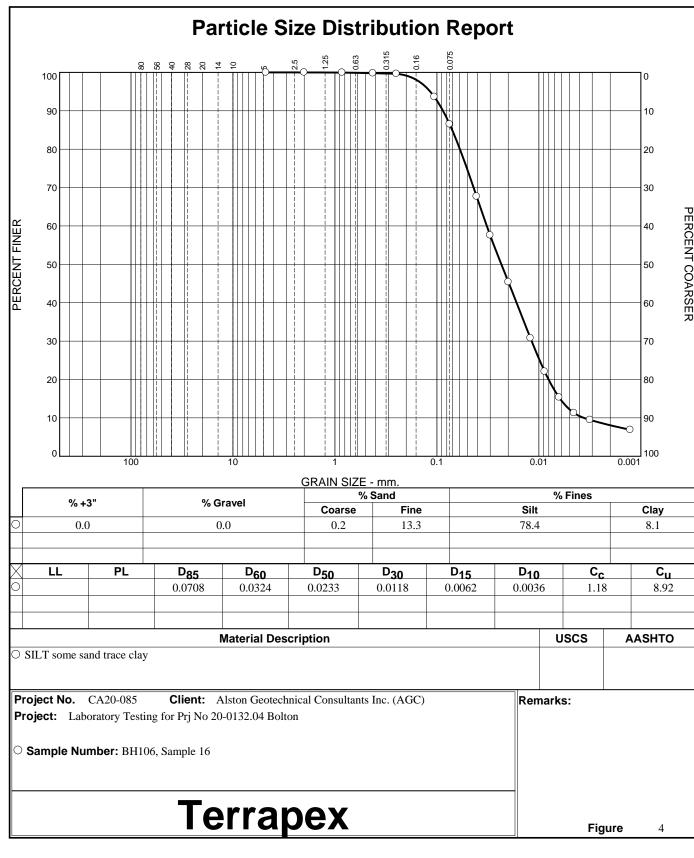
Figure No. 1



Tested By: AM Checked By: DM



Tested By: AM Checked By: DM



Tested By: JR Checked By: DM