

1244 KILBORN PLACE SHADOW STUDY

JANUARY 2022

Prepared for:
The Archdiocese
of Ottawa

FOTENN
Planning + Design

This shadow study was prepared by Fotenn Consultants for the Archdiocese of Ottawa. The proposed concept buildings were massed using Sketchup, based on concept designs also prepared by Fotenn. The study uses site context sourced from the City of Ottawa's Open Data.

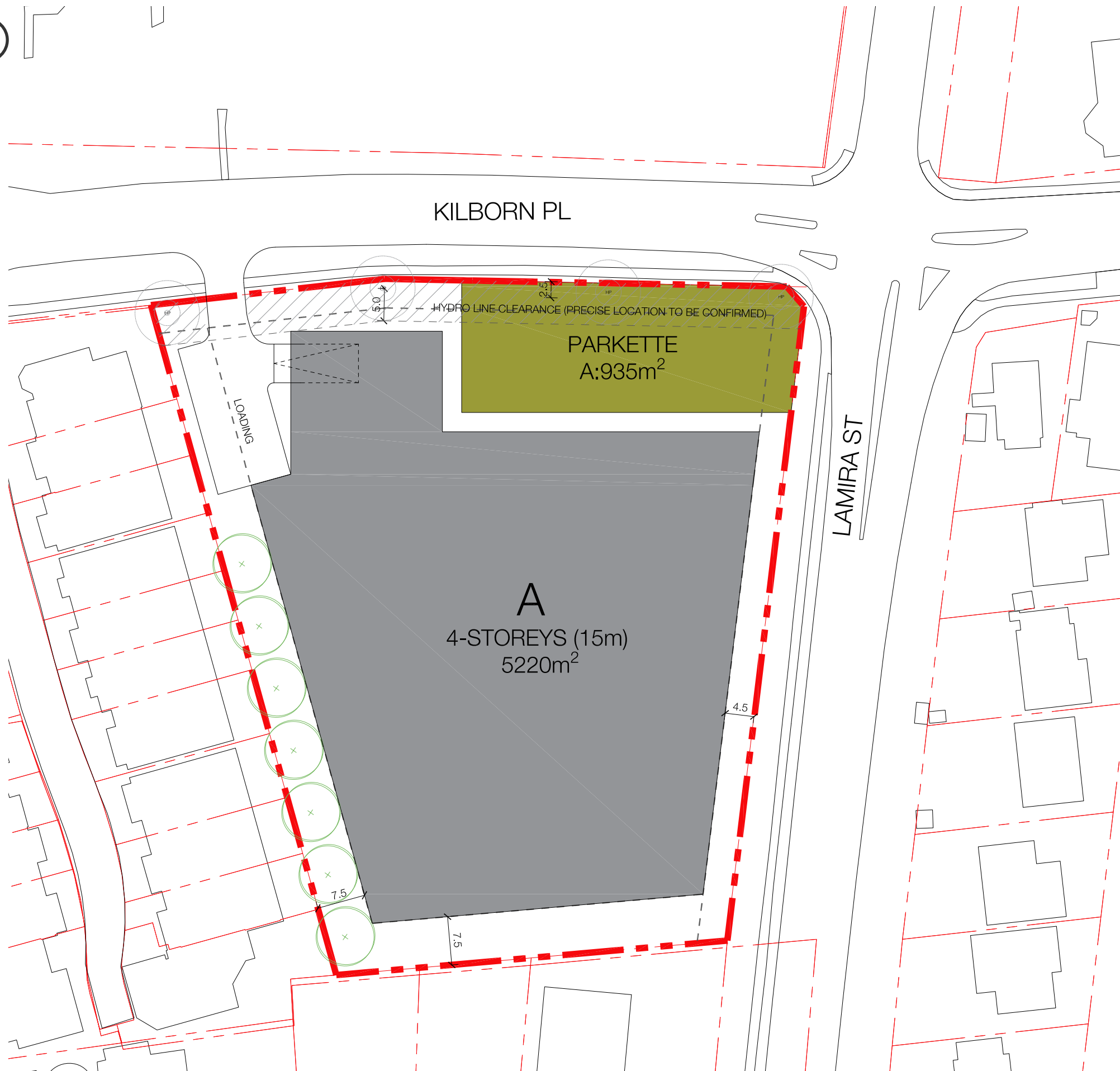
The following demonstrates shadowing impacts during the Spring/Fall Equinox, and the Winter and Summer Solstice. Daylight Savings Time has been accounted for During March and June.

Test Times:

December 21: 9AM, 12PM and 4PM

June 21: 9AM, 12PM and 4PM (DST)

March 21: 9AM, 12PM and 4PM (DST)



AS-OF-RIGHT Zoning Provisions

Total Area:
20,880m²



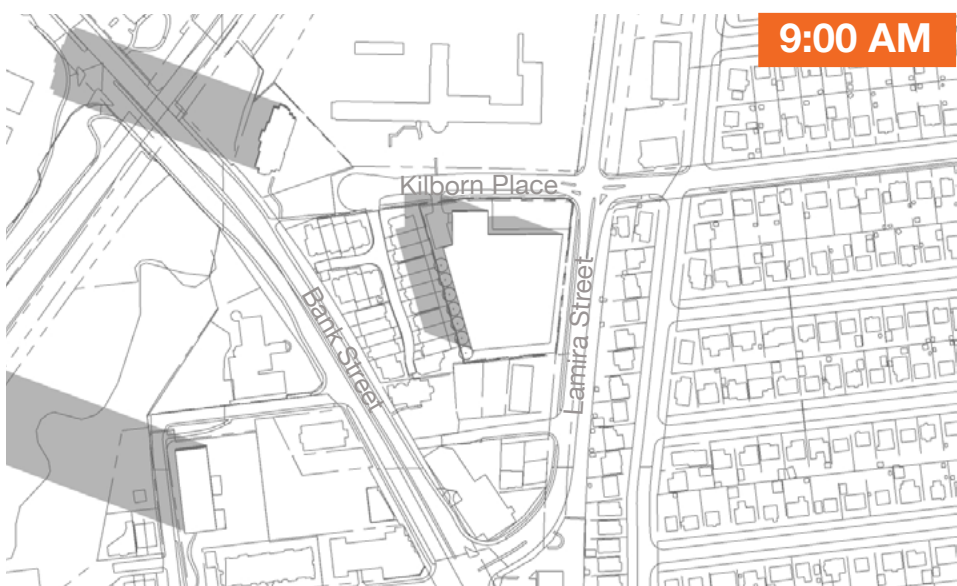
DECEMBER SOLSTICE



JUNE SOLSTICE



MARCH EQUINOX



AS-OF-RIGHT

Shadow Study

December 21 Solstice

- The proposed development does not cast shadows south of the subject property, allowing full sun exposure throughout the day (5+hours).
- The proposed development has a minimal impact on the adjacent property, north of Kilborn Place. Minor shadowing occurs at the 9am time period and moves off completely by 12pm, allowing for majority of the property to receive sunlight for the majority of the day (5 hours).
- While the neighbouring properties north east of the proposed development are impacted by shadows at 4pm, shadows cast are similar to the shadowing of the existing building south west of the subject property.
- The existing properties west of the proposed development receive some shadowing at the 9am time period, moving off completely by 12pm.

June 21 Solstice

- The proposed development has no impact on abutting properties to the north, east or south on June 21st.
- The existing properties abutting west receive shadowing at the 9am time period affecting only the rear yards, and moves off by 12pm, allowing for full sun exposure throughout the day (7+hours).

March/September 21 Equinox

- The proposed development has no impact on abutting properties to the north, east or south on March/September 21st.
- The existing properties abutting west receive shadowing at the 9am time period, and moves off by 12pm, allowing for full sun exposure throughout the day (5+hours).



PROPOSED CONCEPT Zoning Provisions

Retail:
1,167m²

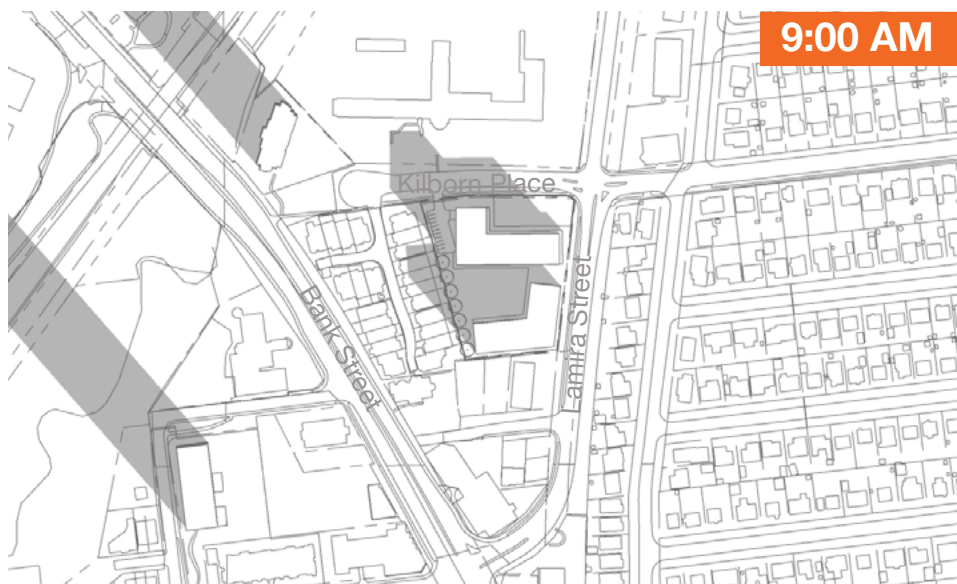
Residential:
11,152m²

Total Area:
12,319m²



PROPOSED CONCEPT

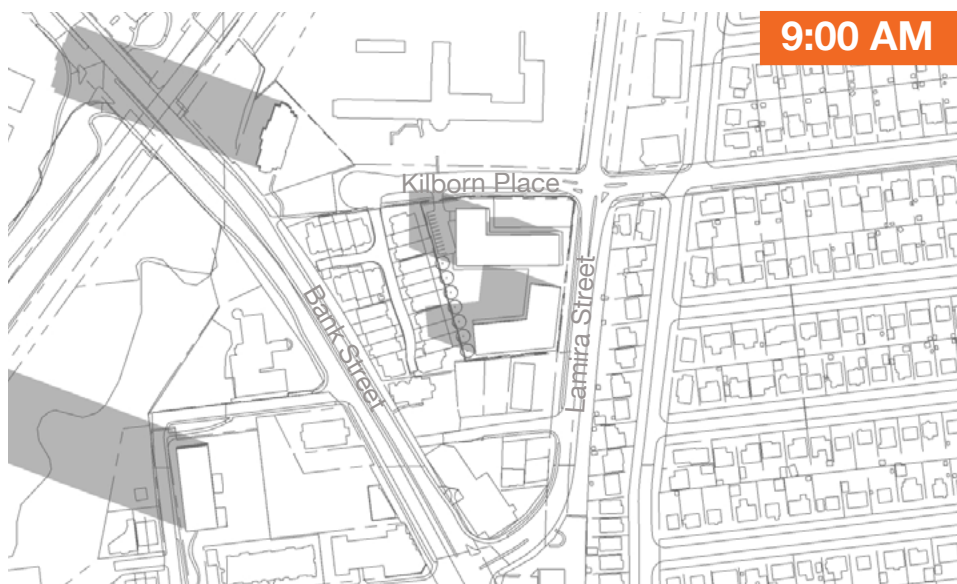
DECEMBER SOLSTICE



JUNE SOLSTICE



MARCH EQUINOX



PROPOSED CONCEPT

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SHADOW STUDIES

The following shadow studies demonstrate the shadow impacts of the proposed developments (As-of-Right and the Proposed Concept) during the Spring/Fall Equinox, and the Winter and Summer Solstice.

December 21 Solstice

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■ CONCEPT DESIGN SHADOW INCREMENT
 ■ CONCEPT DESIGN SHADOW
 ■ AS-OF-RIGHT SHADOW INCREMENT
 ■ AS-OF-RIGHT BUILDING ENVELOPE

DECEMBER SOLSTICE



JUNE SOLSTICE



MARCH EQUINOX

