



ABK Architects

Shadow Analysis Study

St Laurence's Park
Stillorgan
Dublin 18

July 2020

St Laurence's Park

Shadow Analysis Study

This report details the analysis undertaken to assess the sunlight and overshadowing impact of the proposed development at the Library site, Stillorgan, Dublin 18 on the existing properties.

This report focuses on quantifying the daylight impact on the adjacent residential properties and the new communal courtyard in the proposed development.

The study compares the existing situation and the proposed scheme by means of a shadow analysis model study.

This study compares the shadows cast for the existing situation and the proposed scheme for the following dates:

- 21st March
- 21st June
- 21st December

This provides a visual representation of any changes to the availability of sunlight that may arise due to the proposed development.

BRE recommends that "that for it to appear adequately sunlit throughout the year, at least 50% of a garden or amenity area should receive at least 2 hours of sunlight on March 21st.

The analysis below illustrates that the shadows cast by the proposed development are largely limited to the confines of the site itself and the surrounding public roads. The surrounding properties are sufficiently far away that they will be typically unaffected by shadows cast by the proposed development.

Residential properties to the north are subject to change in the shadows cast after 2pm in December. It should be noted this is a time when shadows are at their worst/longest and obstructions such as existing trees, not included in the analysis, will cast shadows at this time.

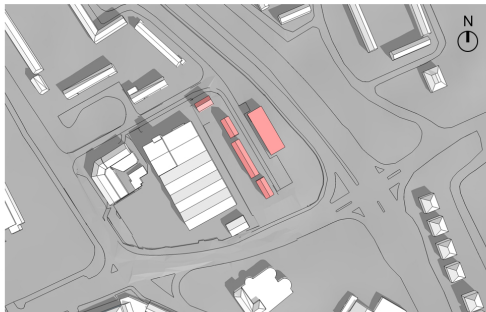
Availability of Sunlight

The analysis shows that for the existing surrounding open spaces, 50% of open space will continue to receive at least 2 hours of sunlight on 21st March.

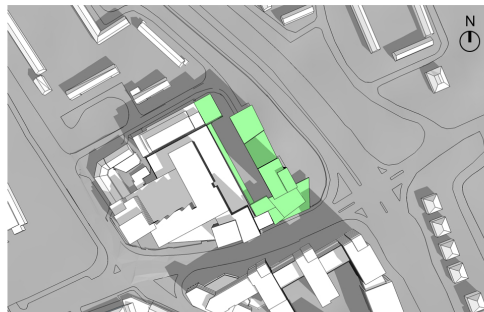
The analysis also shows that for the existing surrounding gardens, 50% of garden will continue to receive at least 2 hours of sunlight on 21st March.

This means that these areas should be adequately sunlit throughout the year.

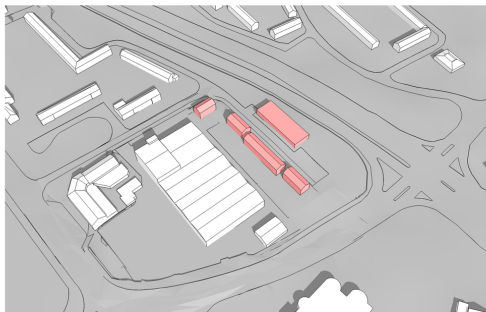
21st March 10:00



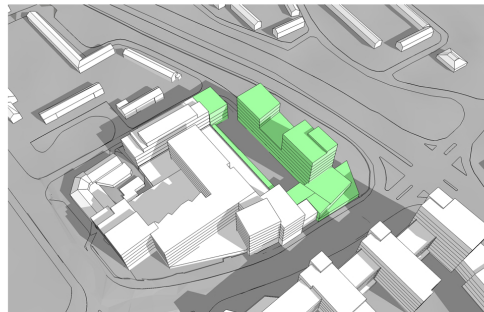
Existing Plan View



Proposed Plan View

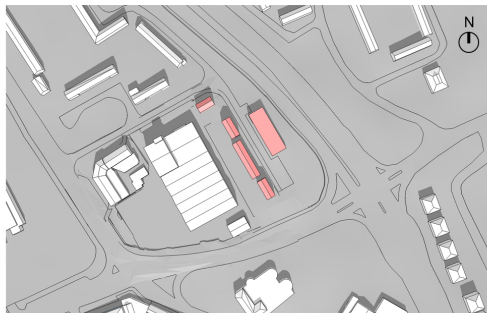


Existing Perspective View

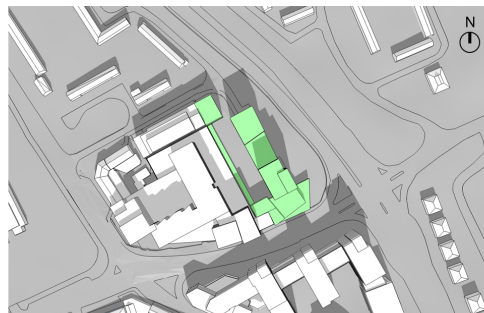


Proposed Perspective View

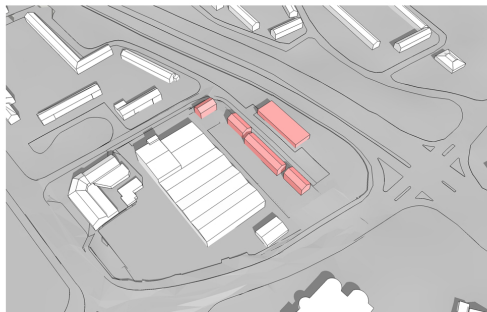
21st March 12:00



Existing Plan View



Proposed Plan View

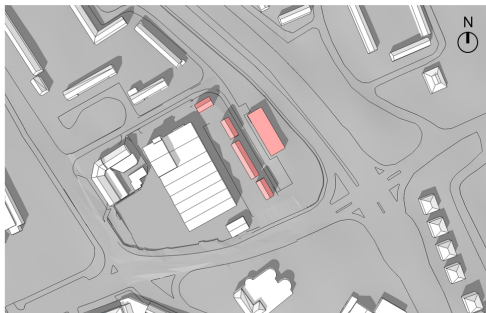


Existing Perspective View

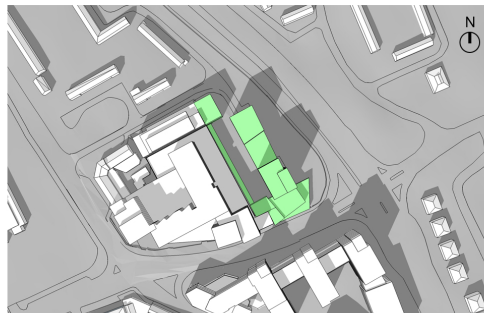


Proposed Perspective View

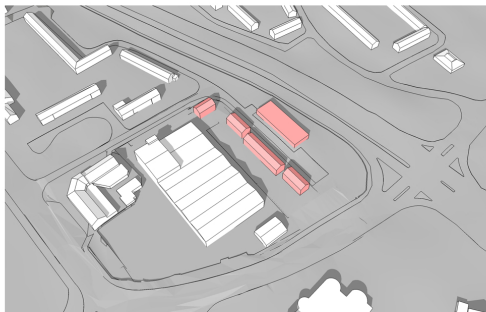
21st March 14:00



Existing Plan View



Proposed Plan View

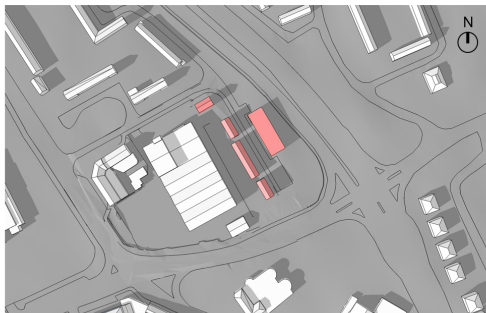


Existing Perspective View

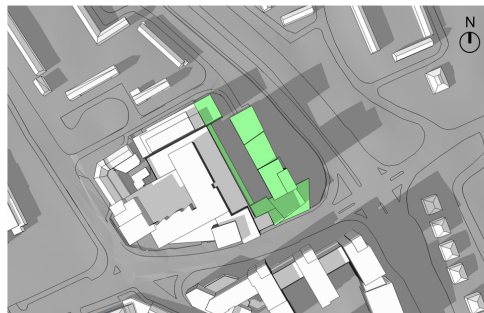


Proposed Perspective View

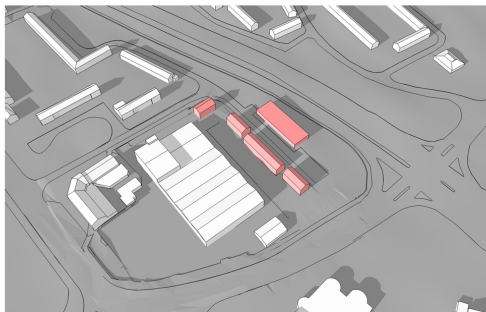
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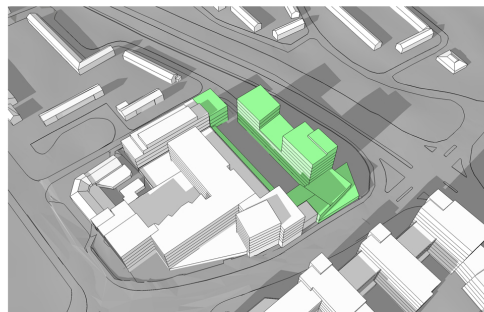
Existing Plan View



Proposed Plan View

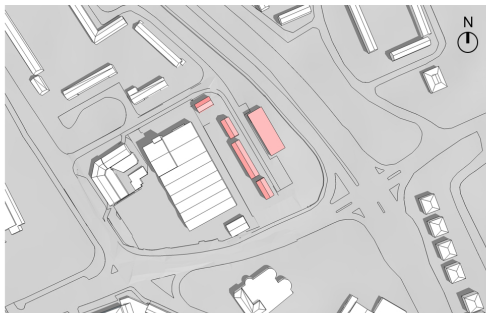


Existing Perspective View



Proposed Perspective View

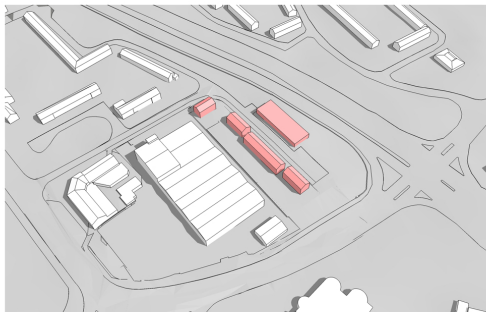
21st June 10:00



Existing Plan View



Proposed Plan View

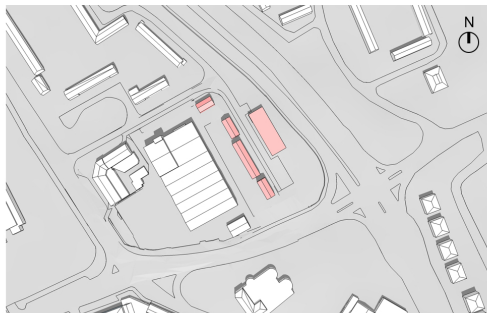


Existing Perspective View



Proposed Perspective View

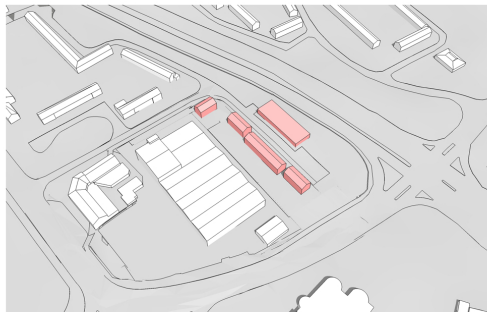
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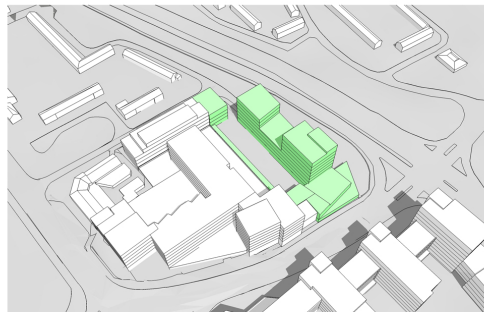
Existing Plan View



Proposed Plan View

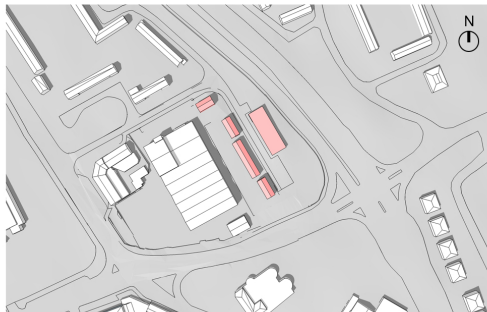


Existing Perspective View



Proposed Perspective View

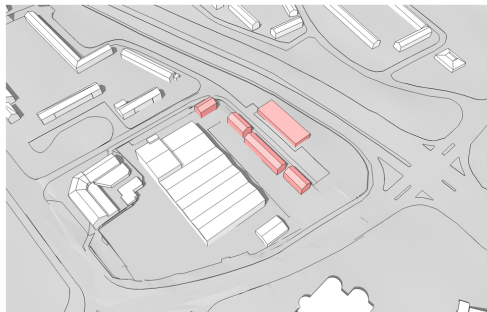
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Existing Plan View



Proposed Plan View

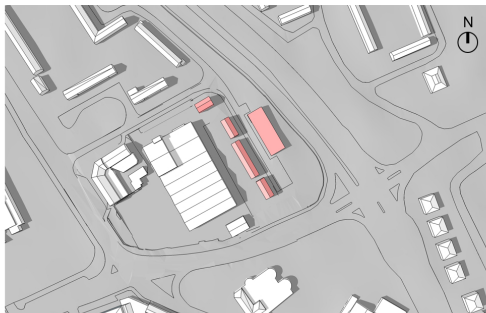


Existing Perspective View



Proposed Perspective View

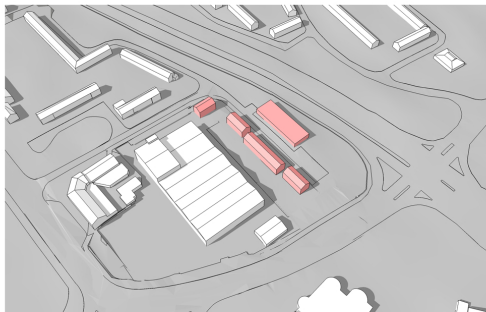
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Existing Plan View



Proposed Plan View

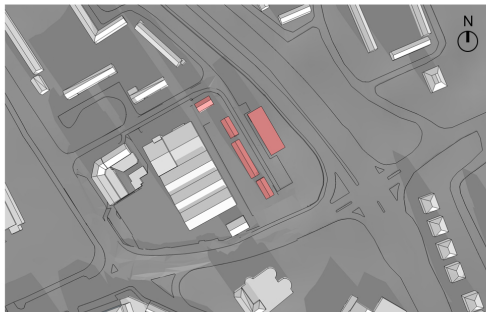


Existing Perspective View

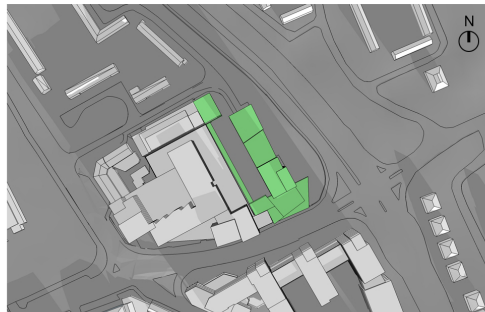


Proposed Perspective View

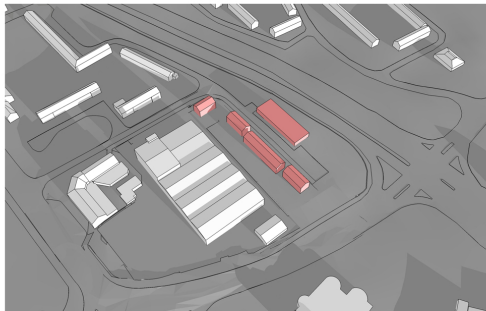
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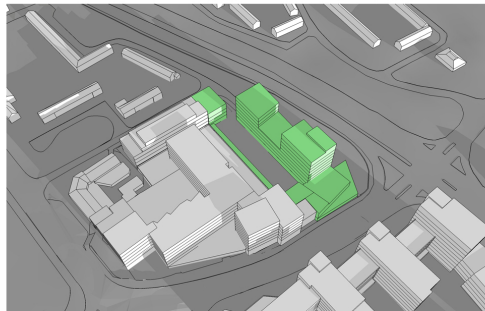
Existing Plan View



Proposed Plan View

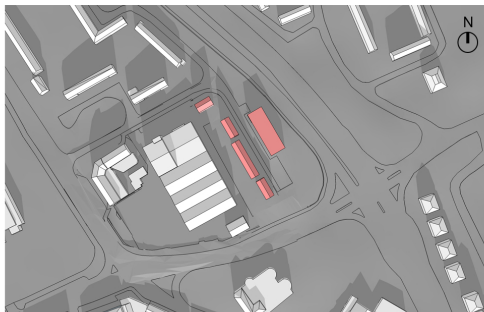


Existing Perspective View



Proposed Perspective View

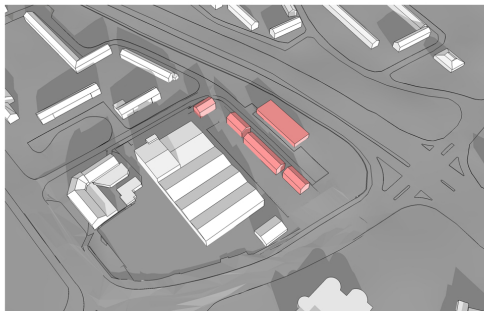
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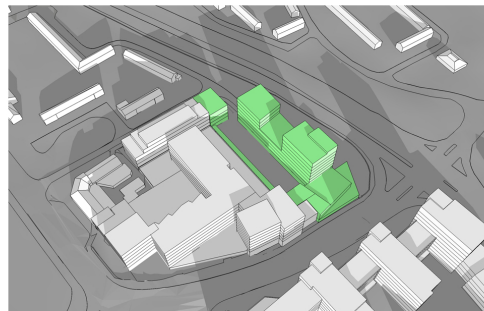
Existing Plan View



Proposed Plan View

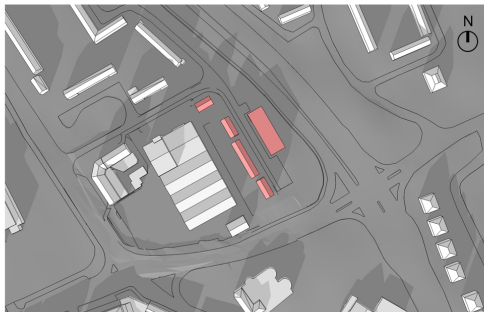


Existing Perspective View

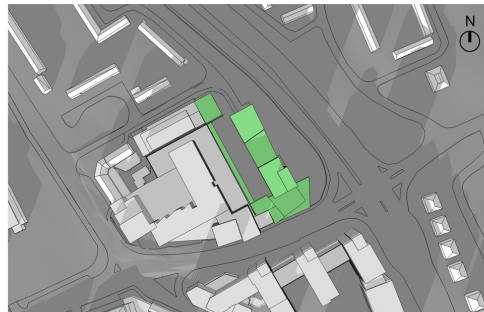


Proposed Perspective View

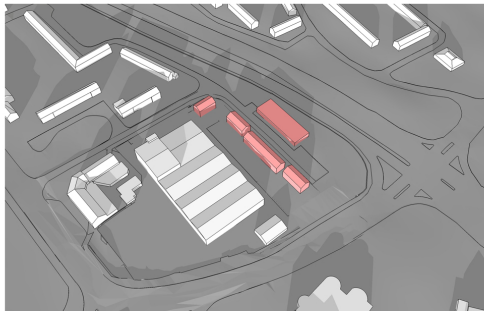
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Existing Plan View



Proposed Plan View

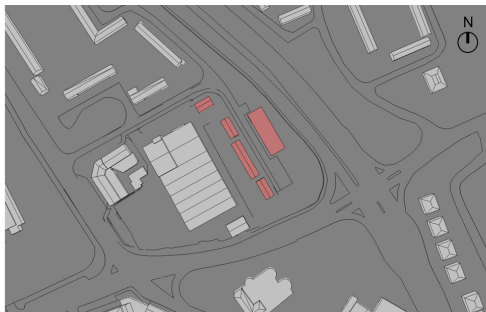


Existing Perspective View



Proposed Perspective View

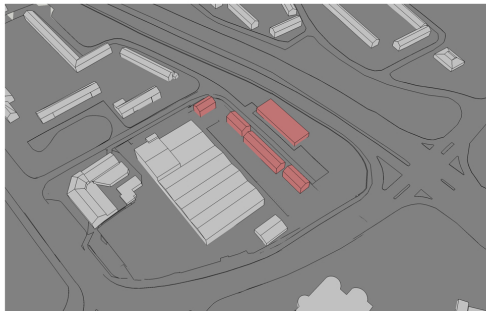
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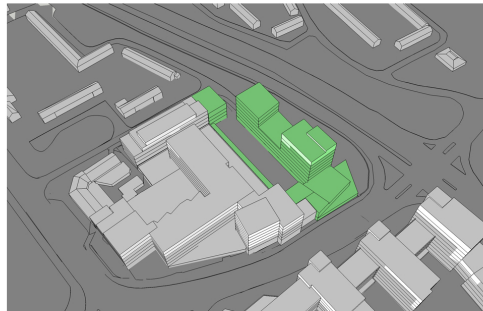
Existing Plan View



Proposed Plan View



Existing Perspective View



Proposed Perspective View