



ABK Architects

778 RP 03 Shadow Analysis Report

Shanganagh Castle Residential Development,
Shankill, Dublin

January 2020

ABK Architects 34 lower leeson street dublin 2



Shadow Analysis Study

This report compares the existing site condition with that generated by the proposed development at Shanganagh Castle Housing Development by means of a shadow analysis model study. This provides a visual representation of any changes to the availability of sunlight that may arise due to the proposed development.

The study uses the Equinox 21st March, Mid-Winter (21st December) and Mid-summer (21st June) between the hours of 10am and 4pm to demonstrate average sun angles at mid-season and high summer and winter

As part of the design development, analysis was undertaken to assess the sunlight and overshadowing impact of the proposed development on external spaces throughout the development and adjacent to the site.

BRE recommends "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.

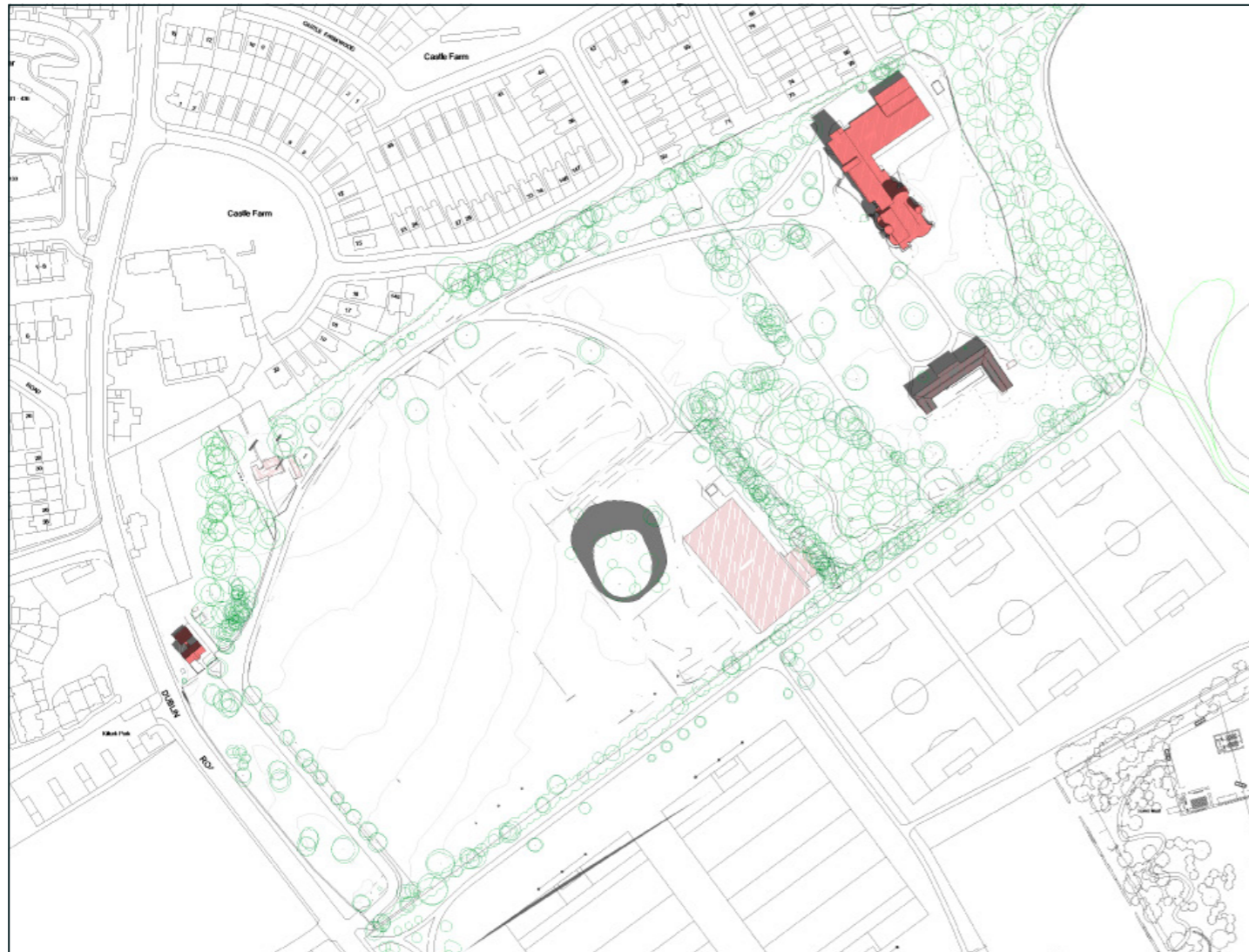
Impact on Adjacent Properties

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

The shadow analysis carried out at equinox (March 21st) and Mid-summer (21st June) shows that the proposed development has no impact on neighbouring properties at these times of the year. Shadow casting is also minimal in early morning 10am in for 21st December where existing trees along the boundary to Castle Farm Estate already cast shadows on existing properties.

Availability of Sunlight within the Site

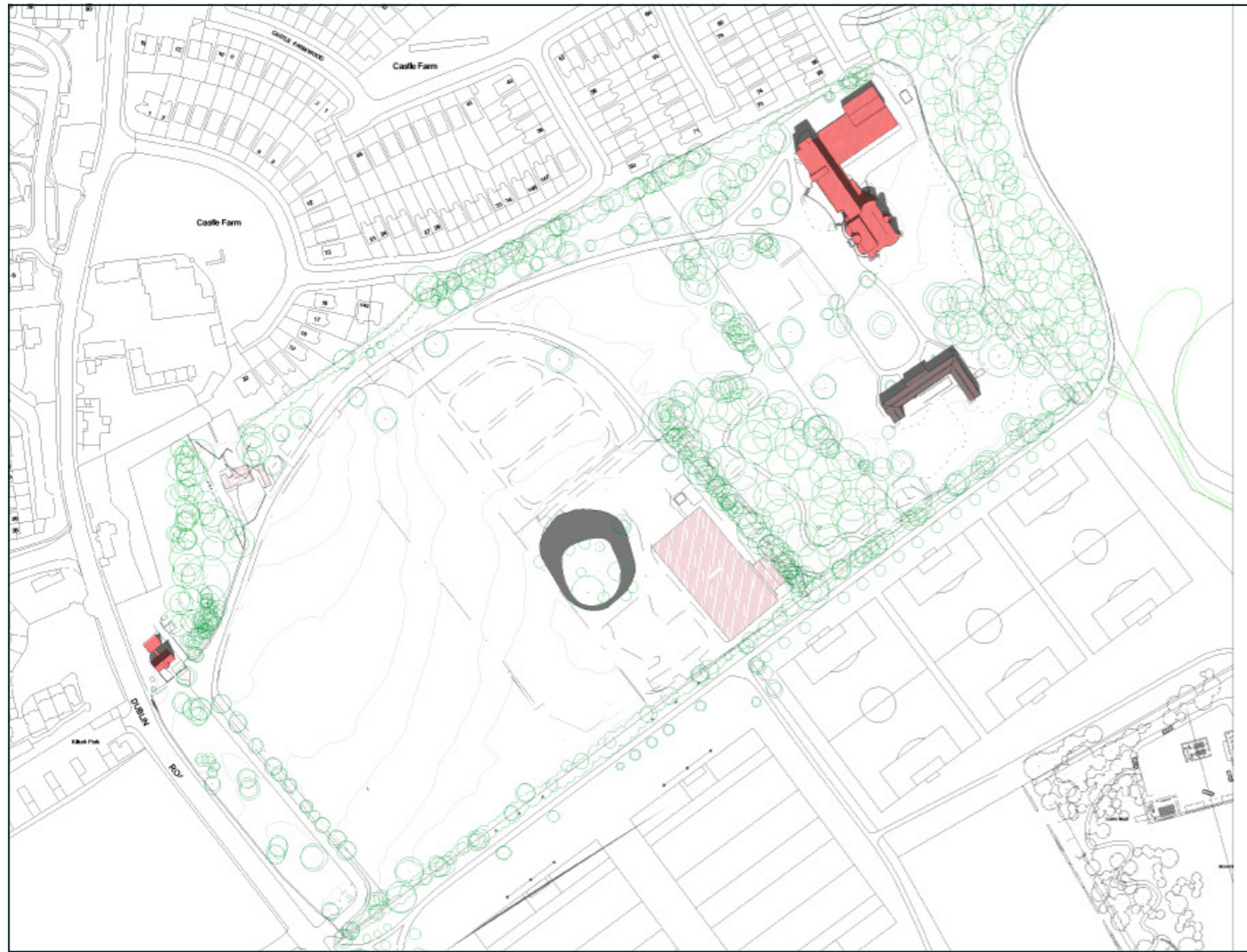
The analysis shows that for proposed external areas, communal areas and gardens within the site, 50% of open space will receive at least 2 hours of sunlight on 21st March as required by BRE. This study confirms that the development will be adequately sunlit throughout the year.



EXISTING PLAN VIEW



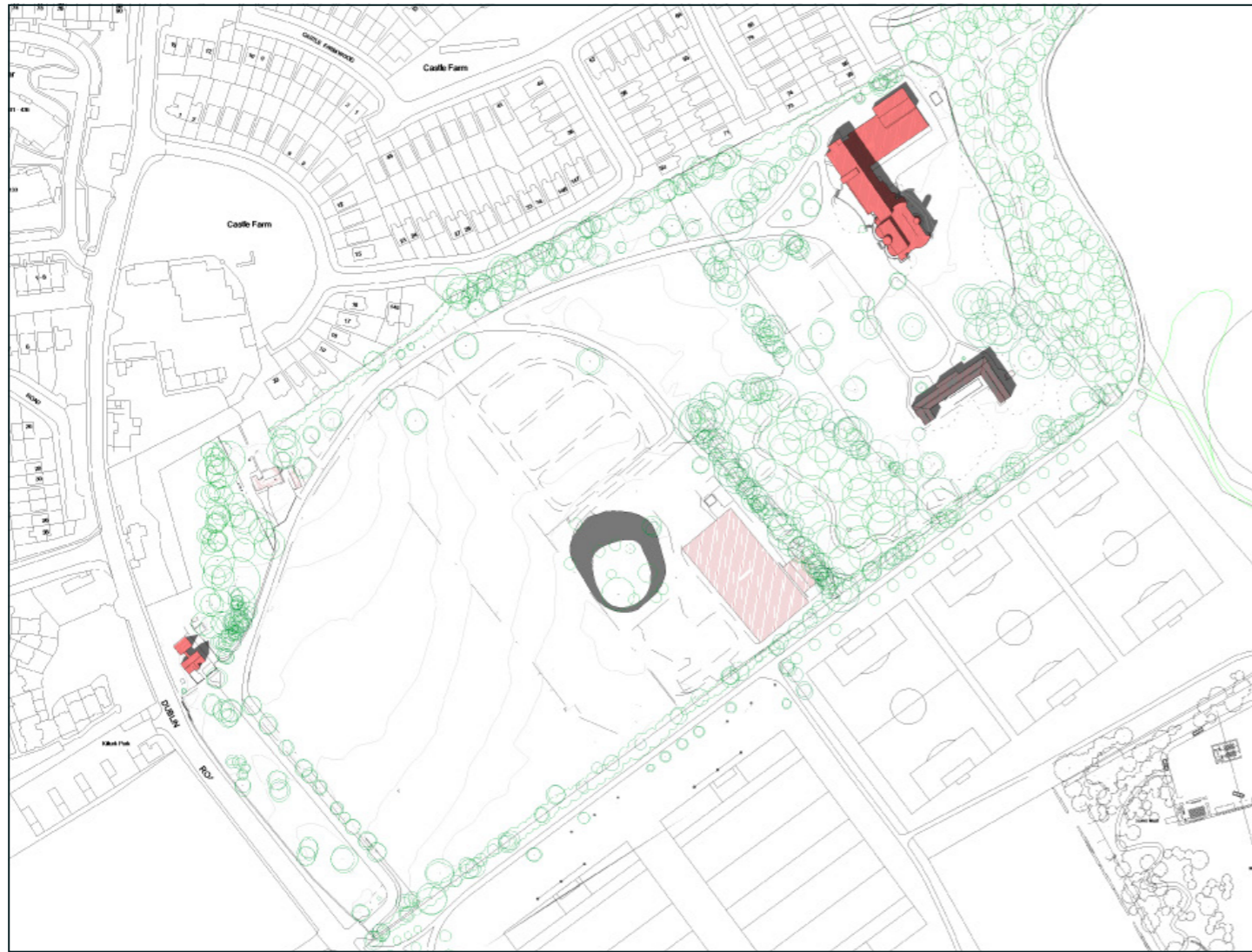
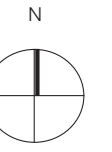
PROPOSED PLAN VIEW



EXISTING PLAN VIEW



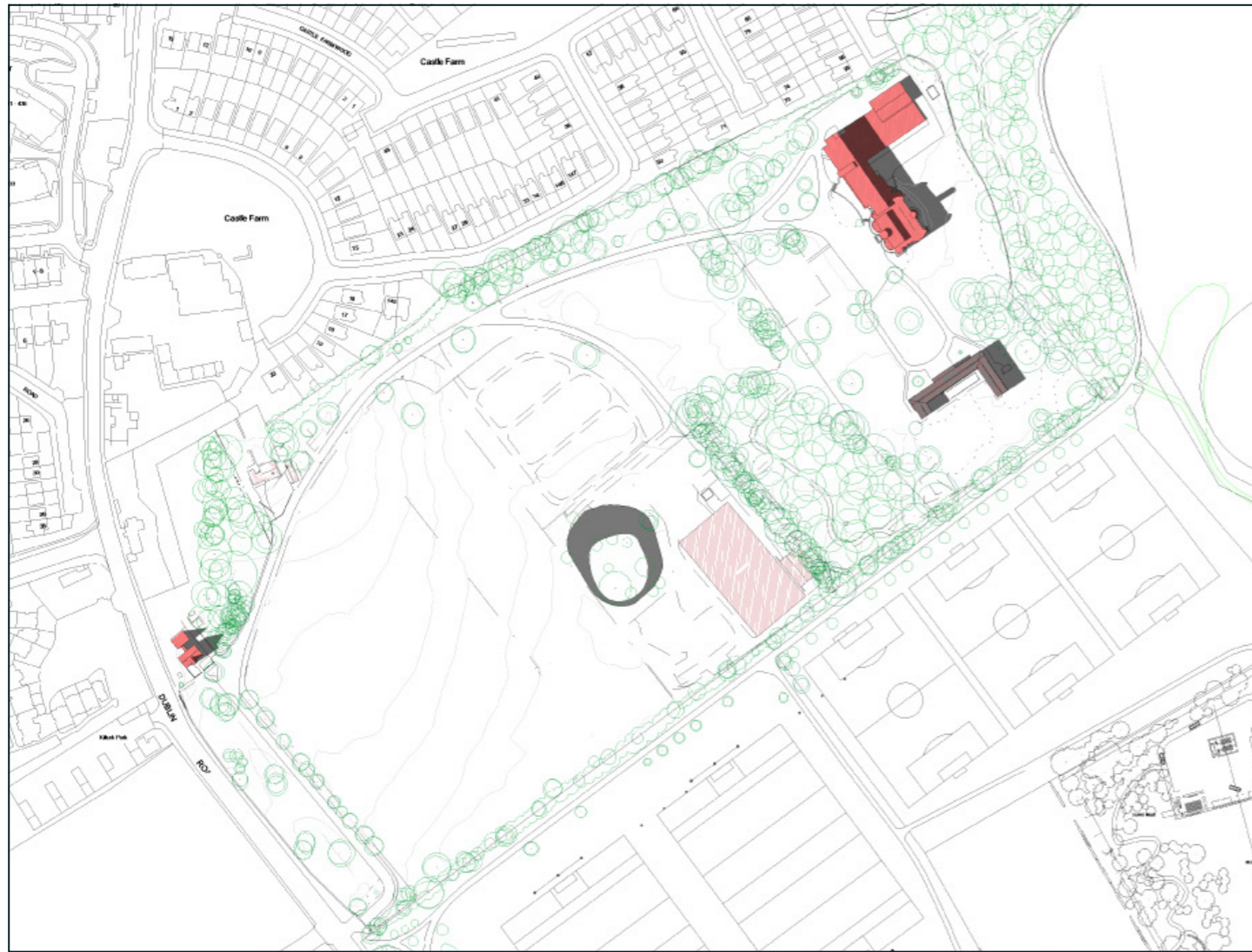
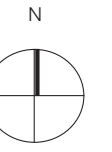
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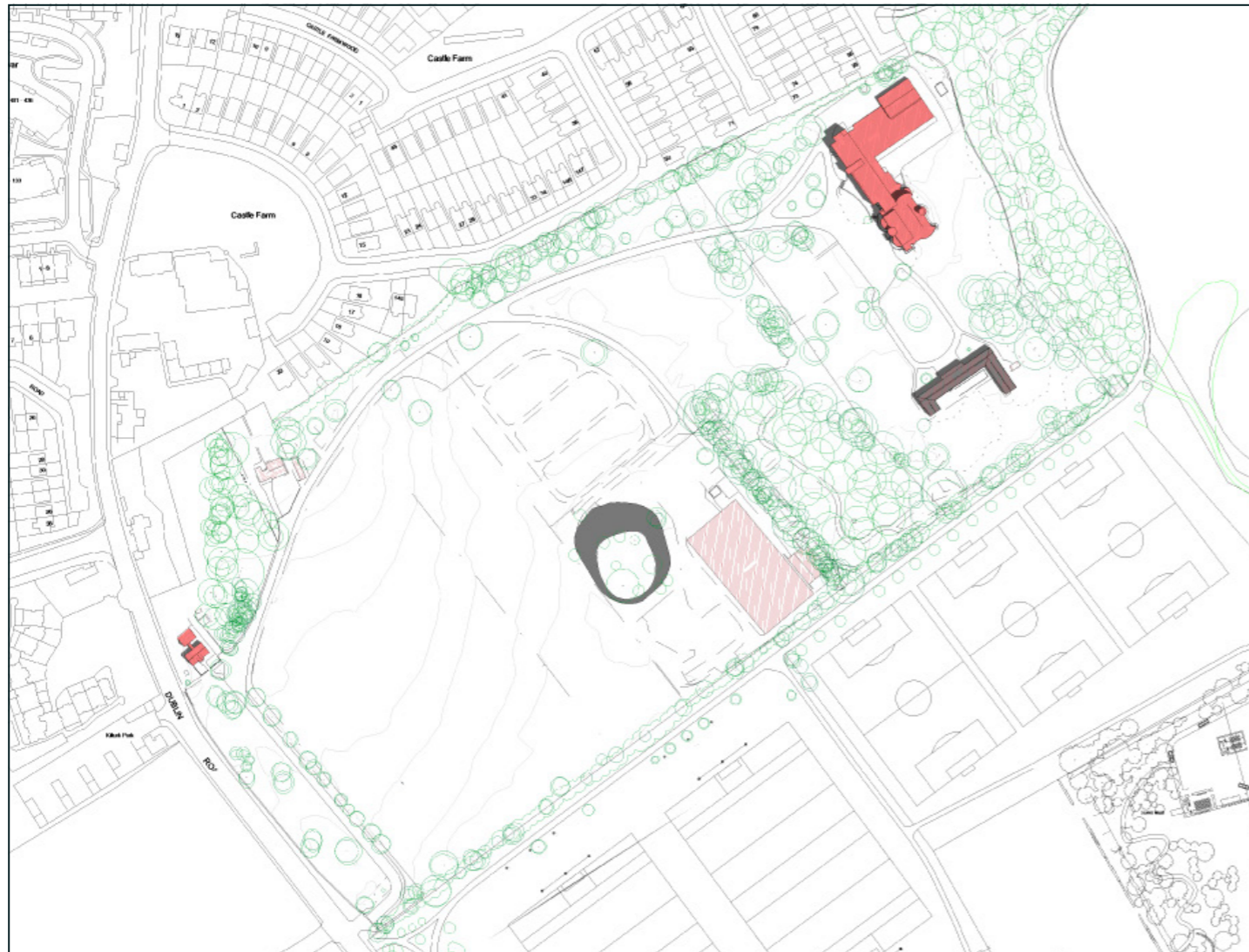
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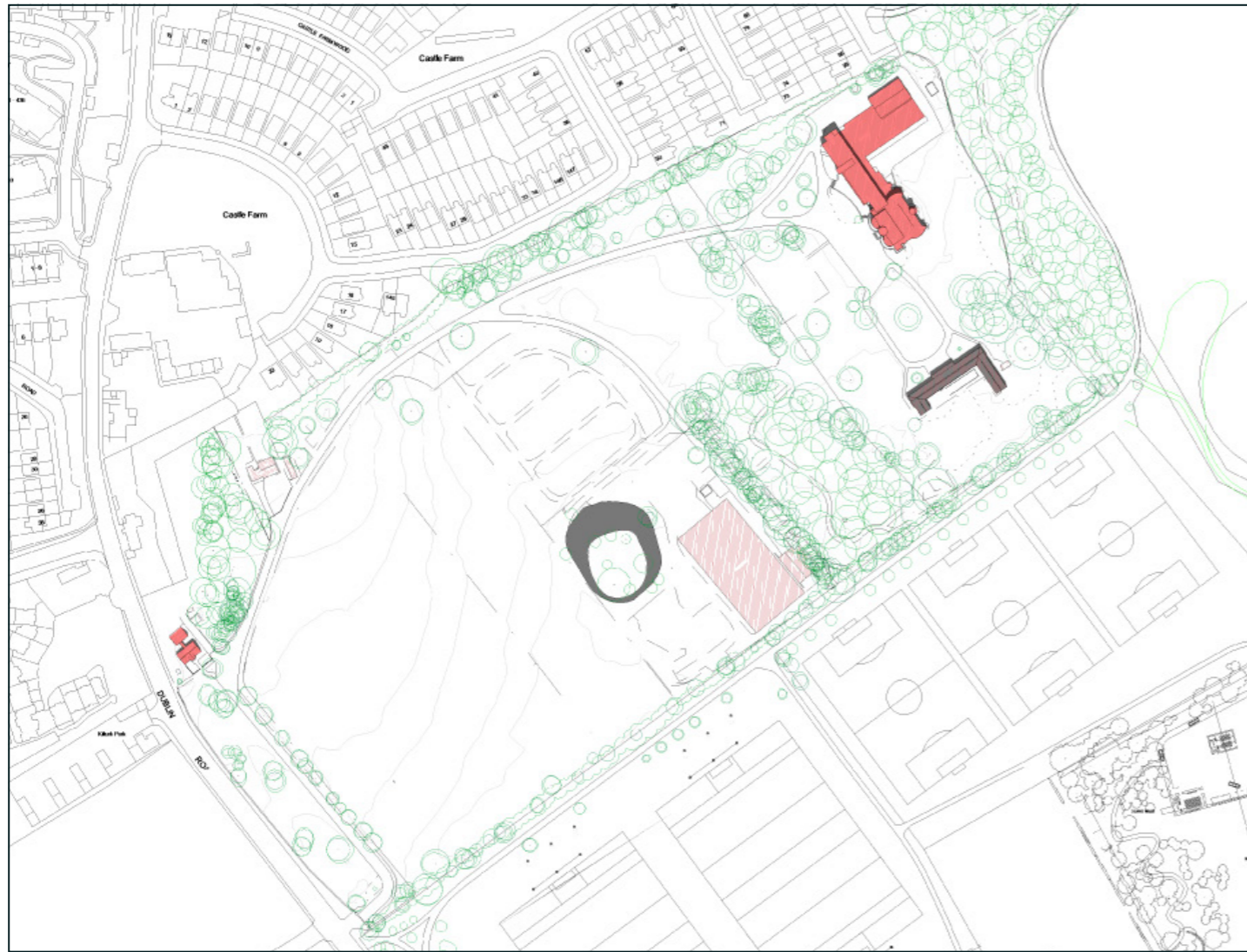
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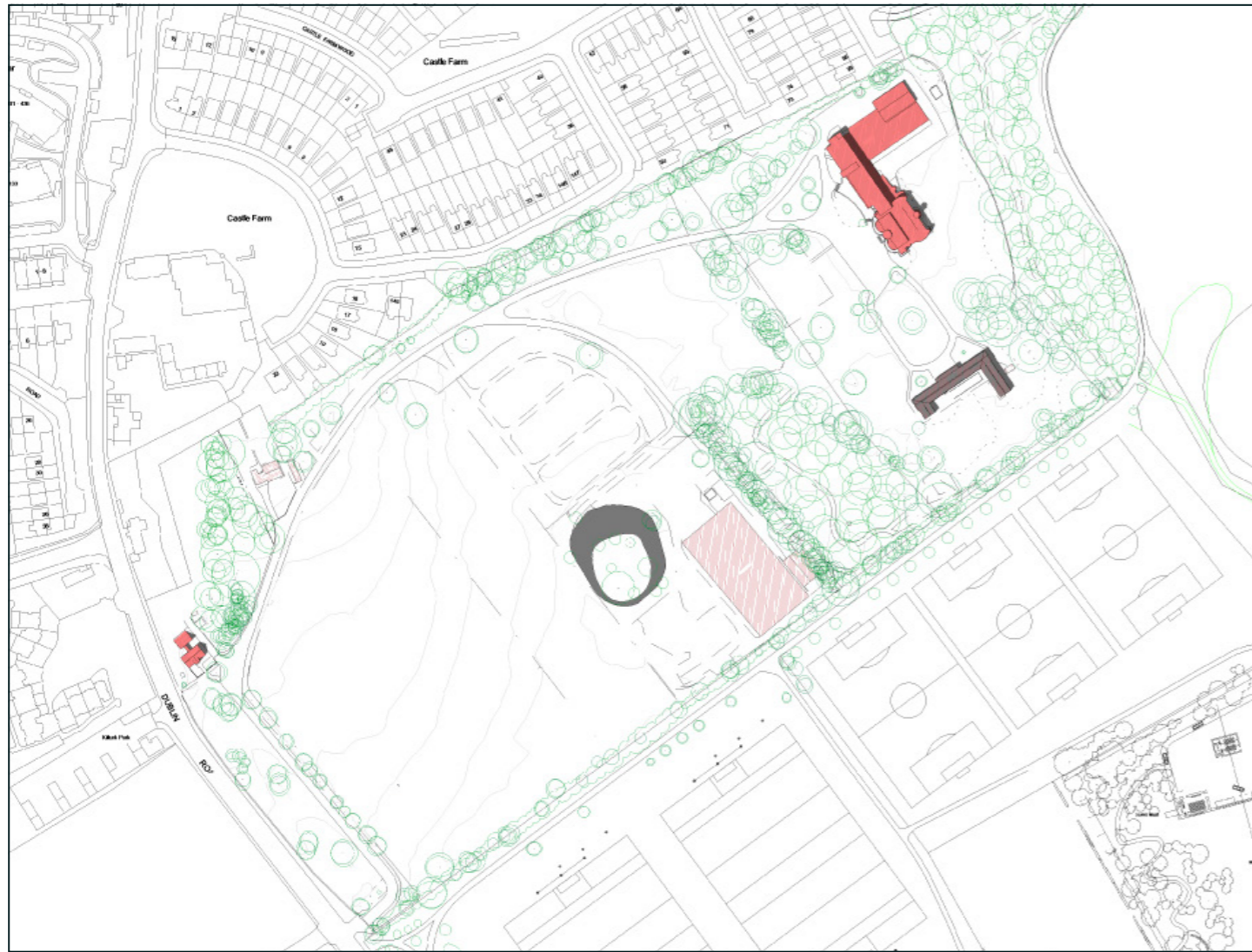
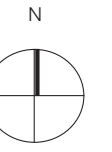
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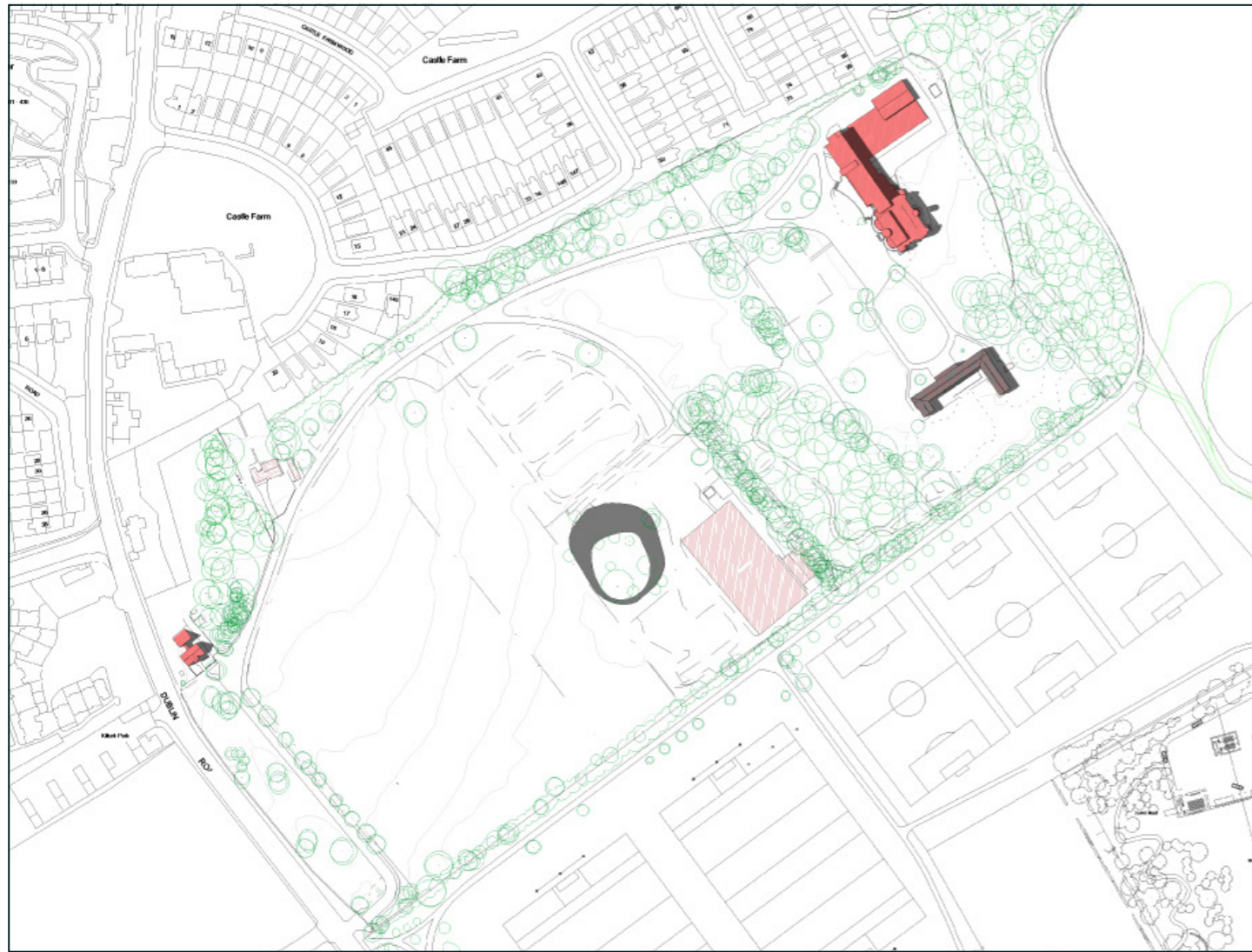
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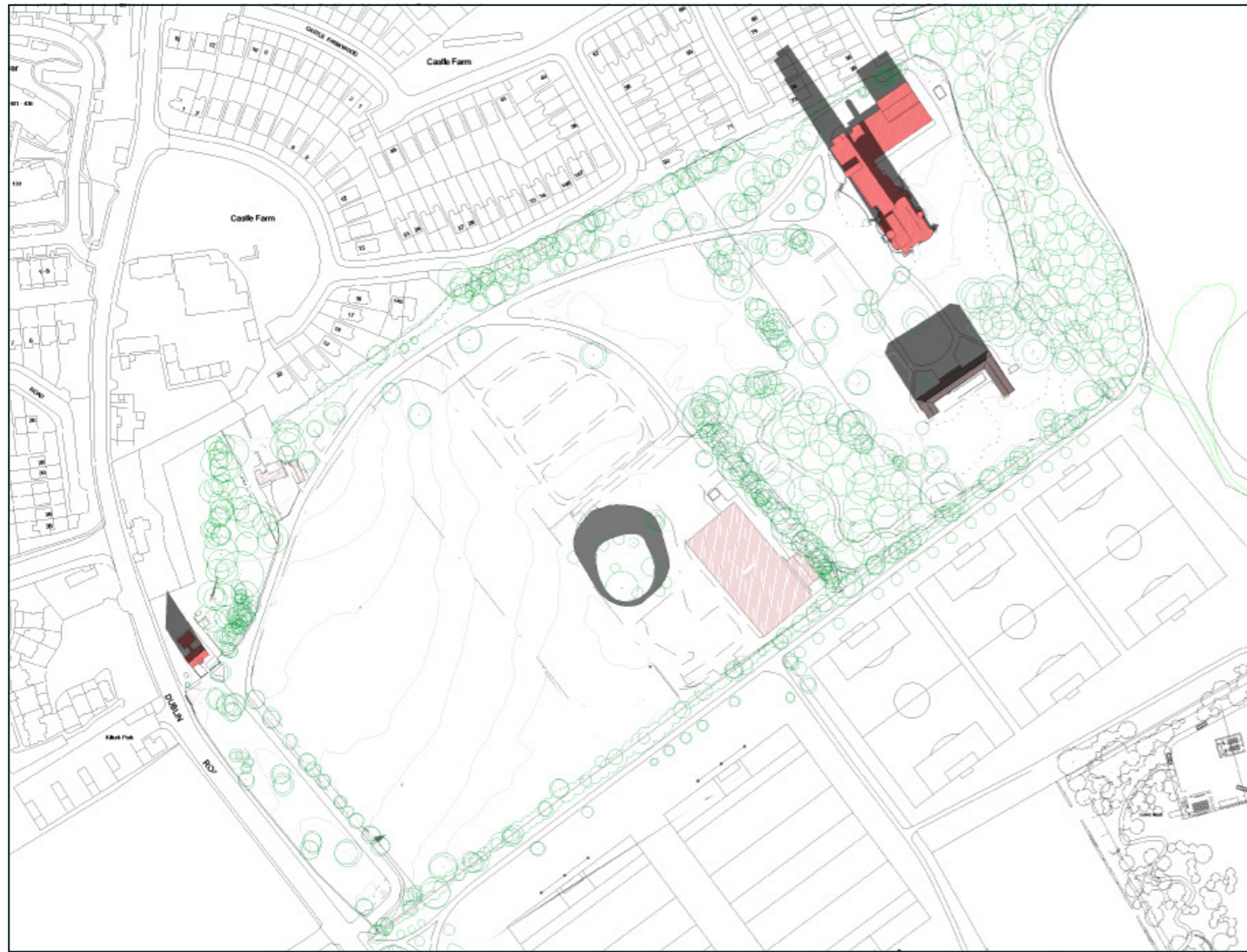
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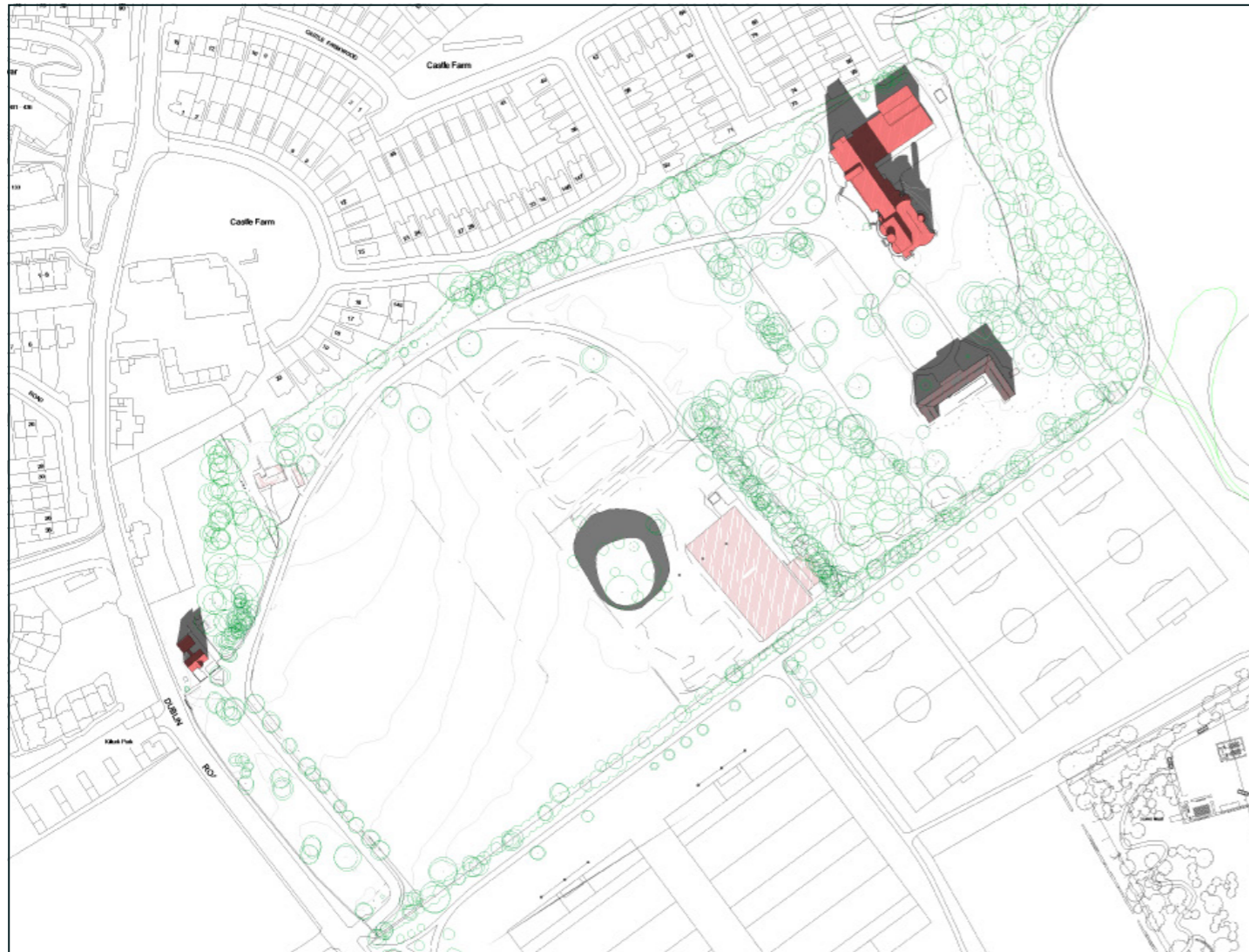
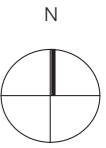
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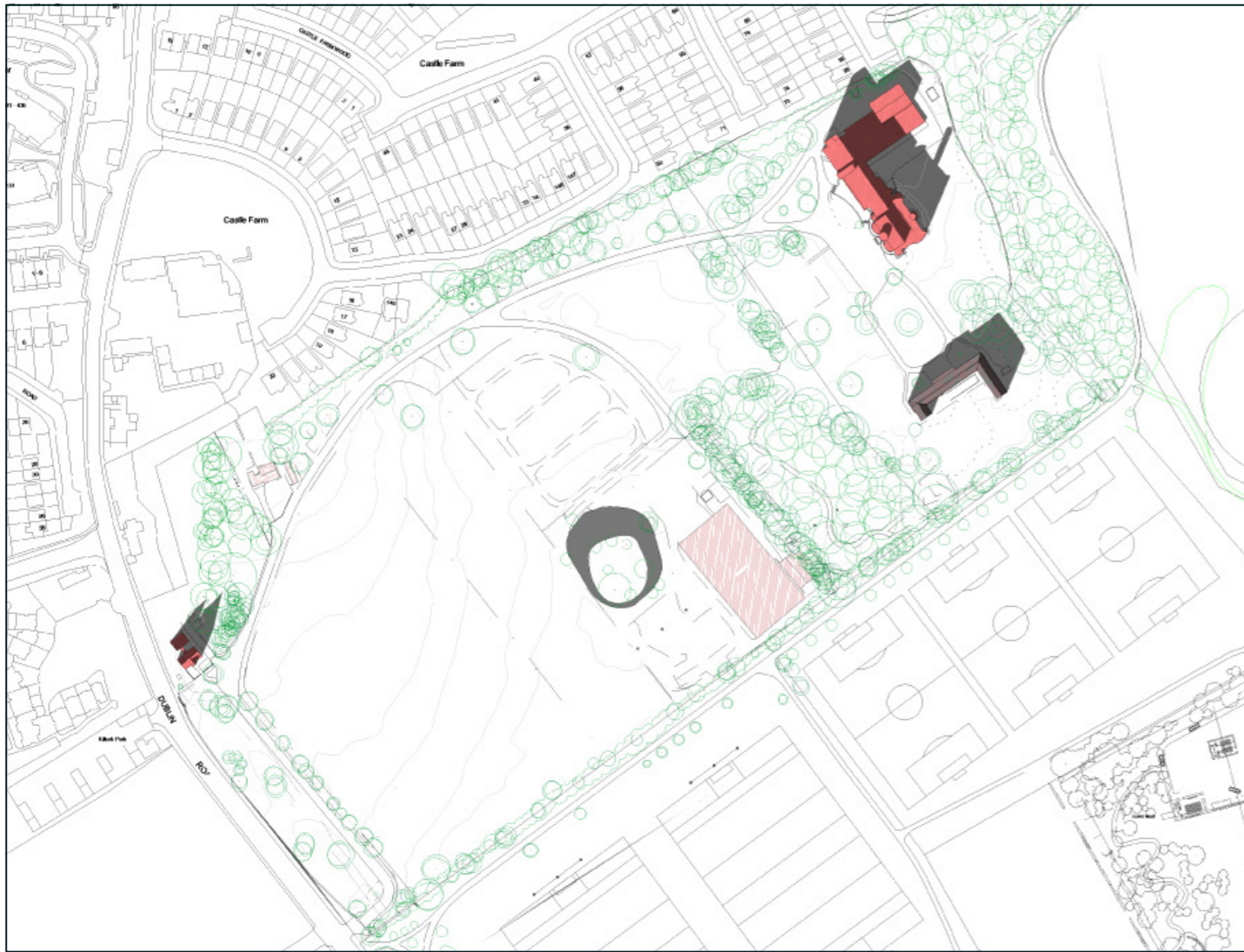
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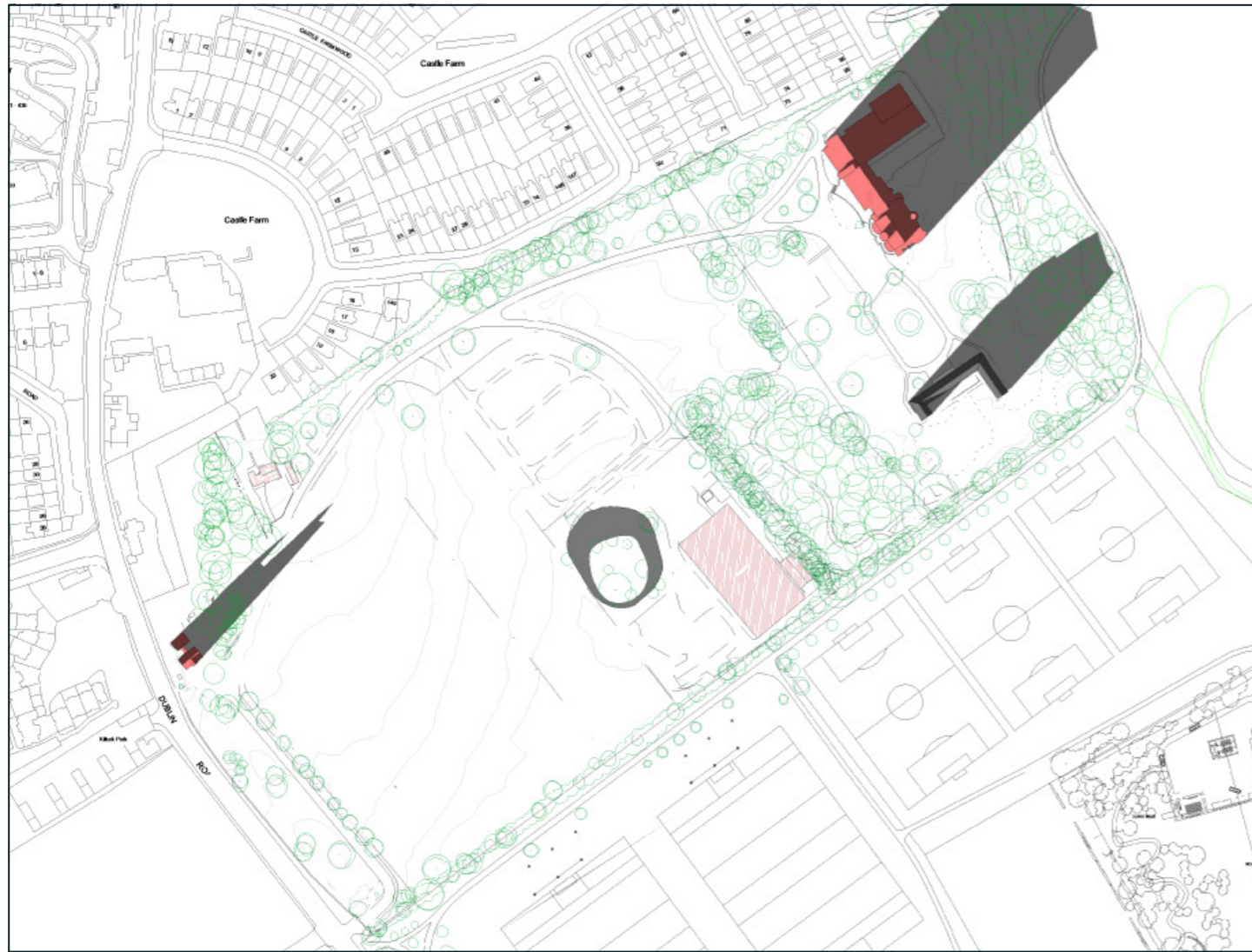
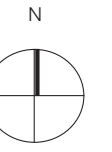
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