

Calculation of Theoretical Visibility ZTV/ZVI

Newbridge Park West of Billingshurst

15m Maximum Height

November 2025

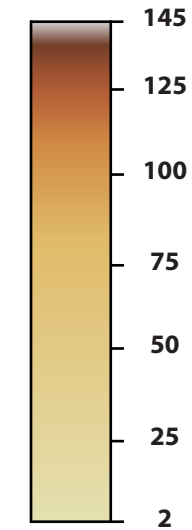




Key:



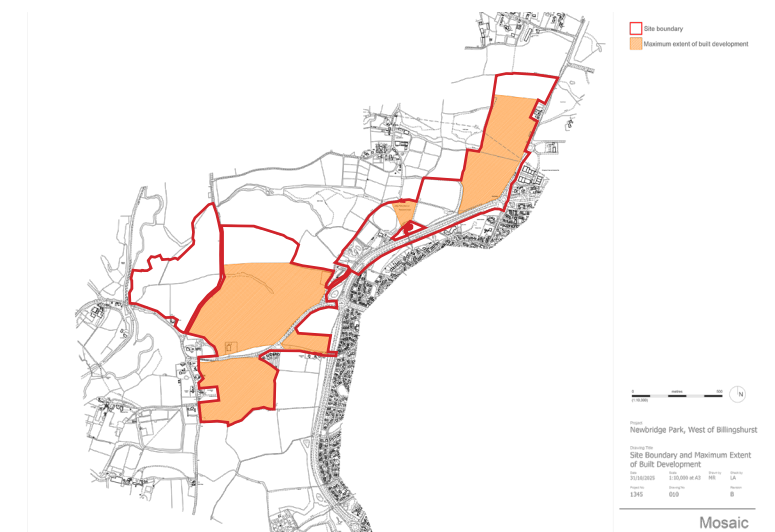
Site Location



metres
Above
Ordnance
Datum
m(AOD)

Layout Information

The terrain data used EA LIDAR 2 m DTM.



Landform

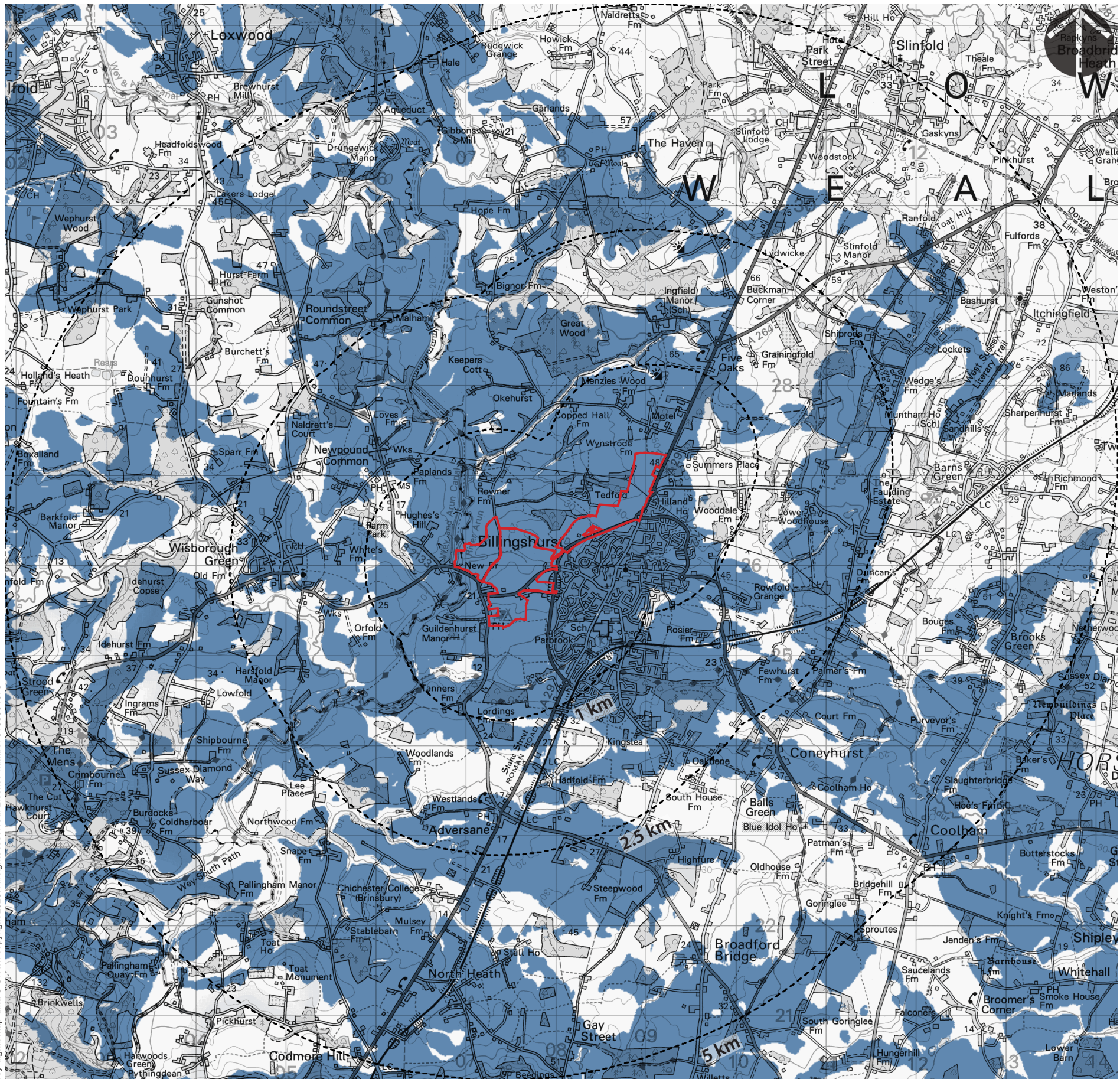
Newbridge Park, West of Billingshurst
Landscape and Visual Impact Appraisal



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Key:



Site Location



Theoretical Visibility

Layout Information

The terrain data used EA LIDAR 2 m DTM.

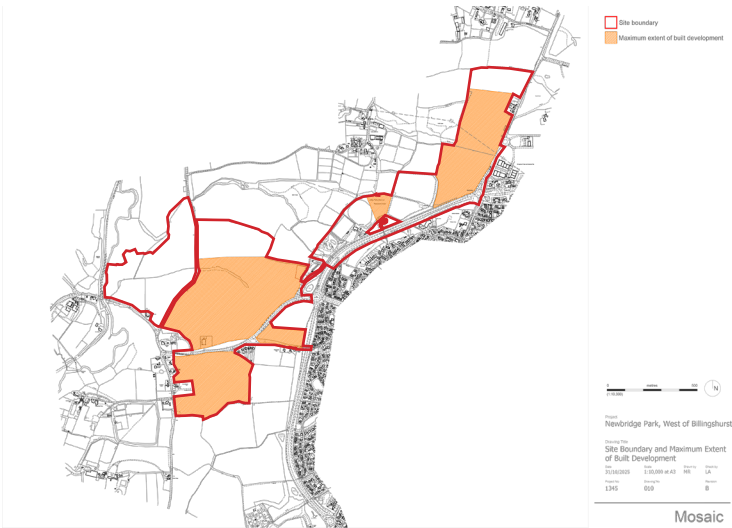
Viewer height used in calculation 1.60 m.

Target heights set 15 m Above Ground Level (AGL) - 677 total target points.

Target heights Above Ordnance Datum ranging from 28.41 to 63.42 m(AOD).

This ZTV does not include the screening effects of buildings or vegetation in the study area.

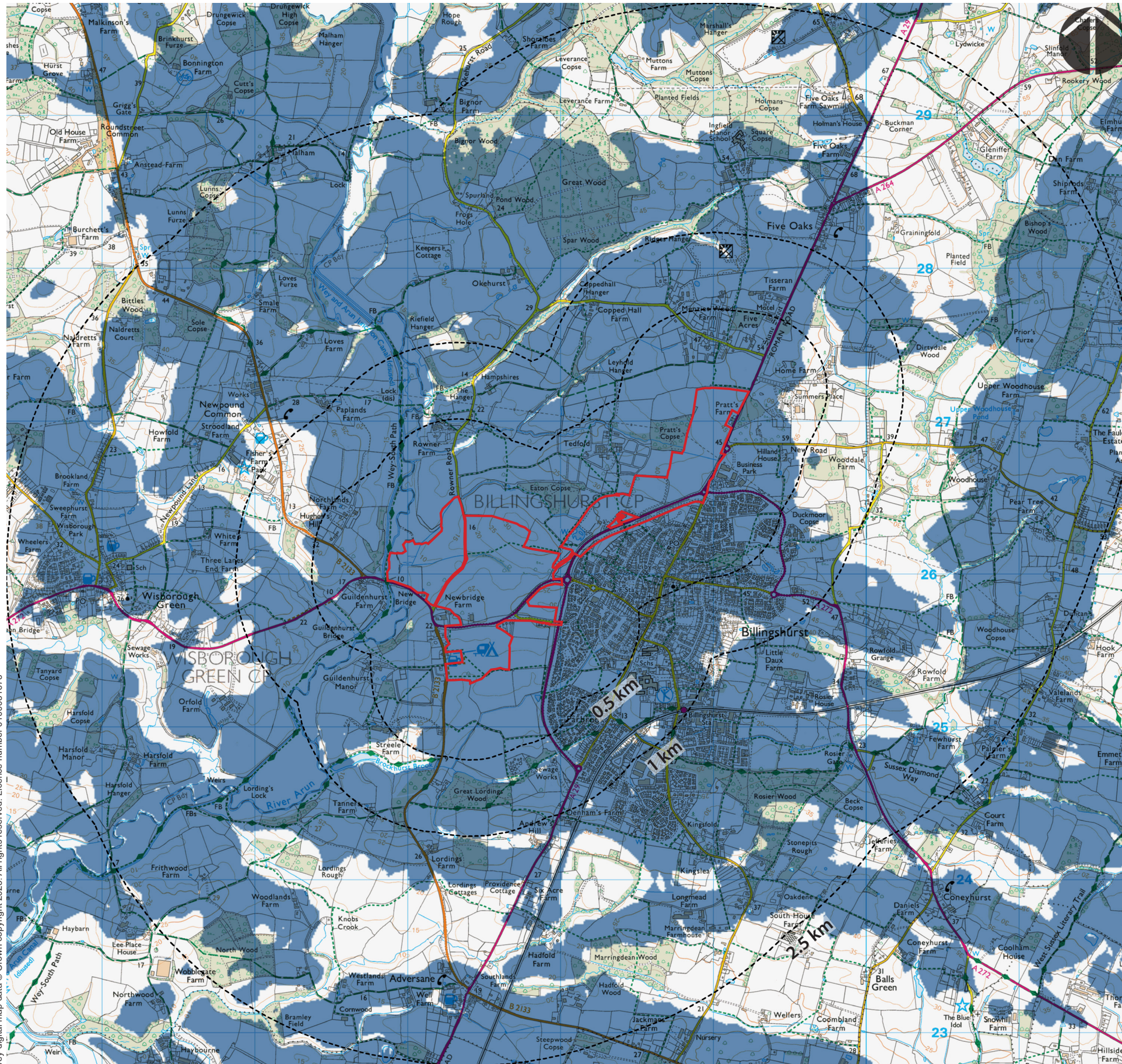
The calculation takes into account the effects of the curvature of the earth and light refraction. The calculation does not use mathematically approximate methods.



Zone of Visual Influence - Bare Earth Calculation

Newbridge Park, West of Billingshurst
Landscape and Visual Impact Appraisal





Key:



Site Location



Theoretical Visibility

Layout Information

The terrain data used EA LIDAR 2 m DTM.

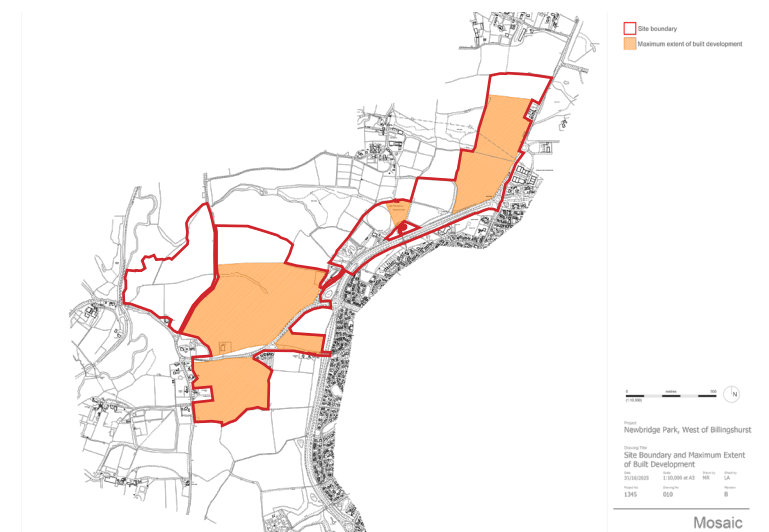
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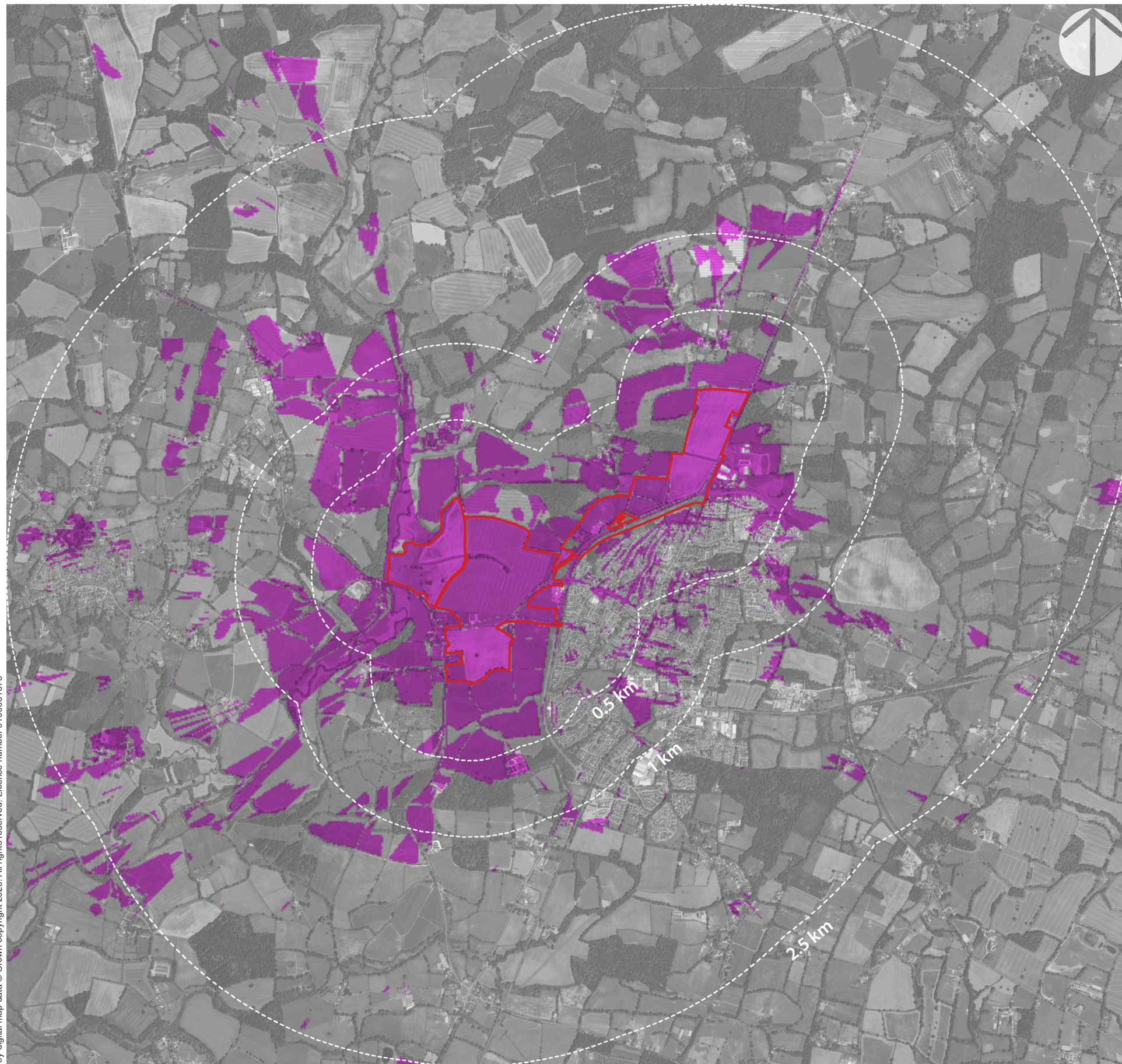
Zone of Visual Influence - Bare Earth Calculation

Newbridge Park, West of Billingshurst Landscape and Visual Impact Appraisal



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Zone of Visual Influence - Visual Buffers Calculation

Newbridge Park, West of Billingshurst

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Key:



Site Location



Theoretical Visibility

Layout Information

The terrain data used EA LIDAR 2 m DTM.

Viewer height used in calculation 1.60 m.

Target heights set 15 m Above Ground Level (AGL) - 677 total target points.

Target heights Above Ordnance Datum ranging from 28.41 to 63.42 m(AOD).

This ZTV includes the screening effects of buildings and vegetation in the study area (AGL):

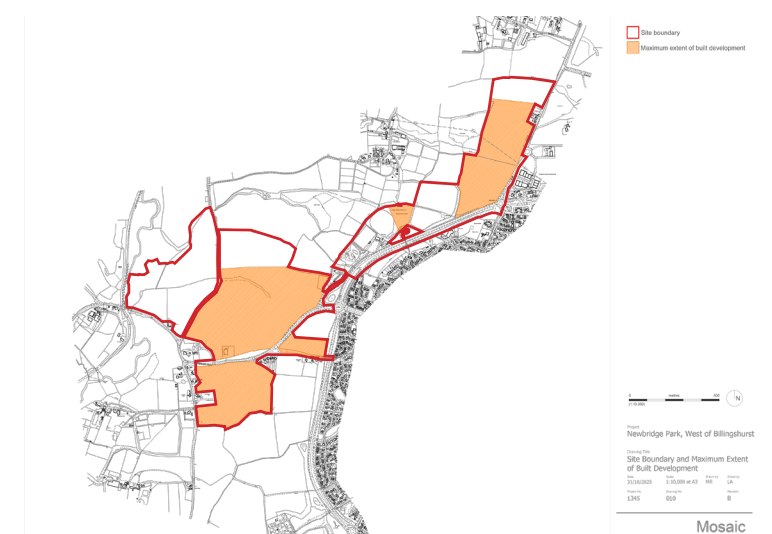
Buildings: Up to 17.3 m

Woodland: Up to 30.3 m

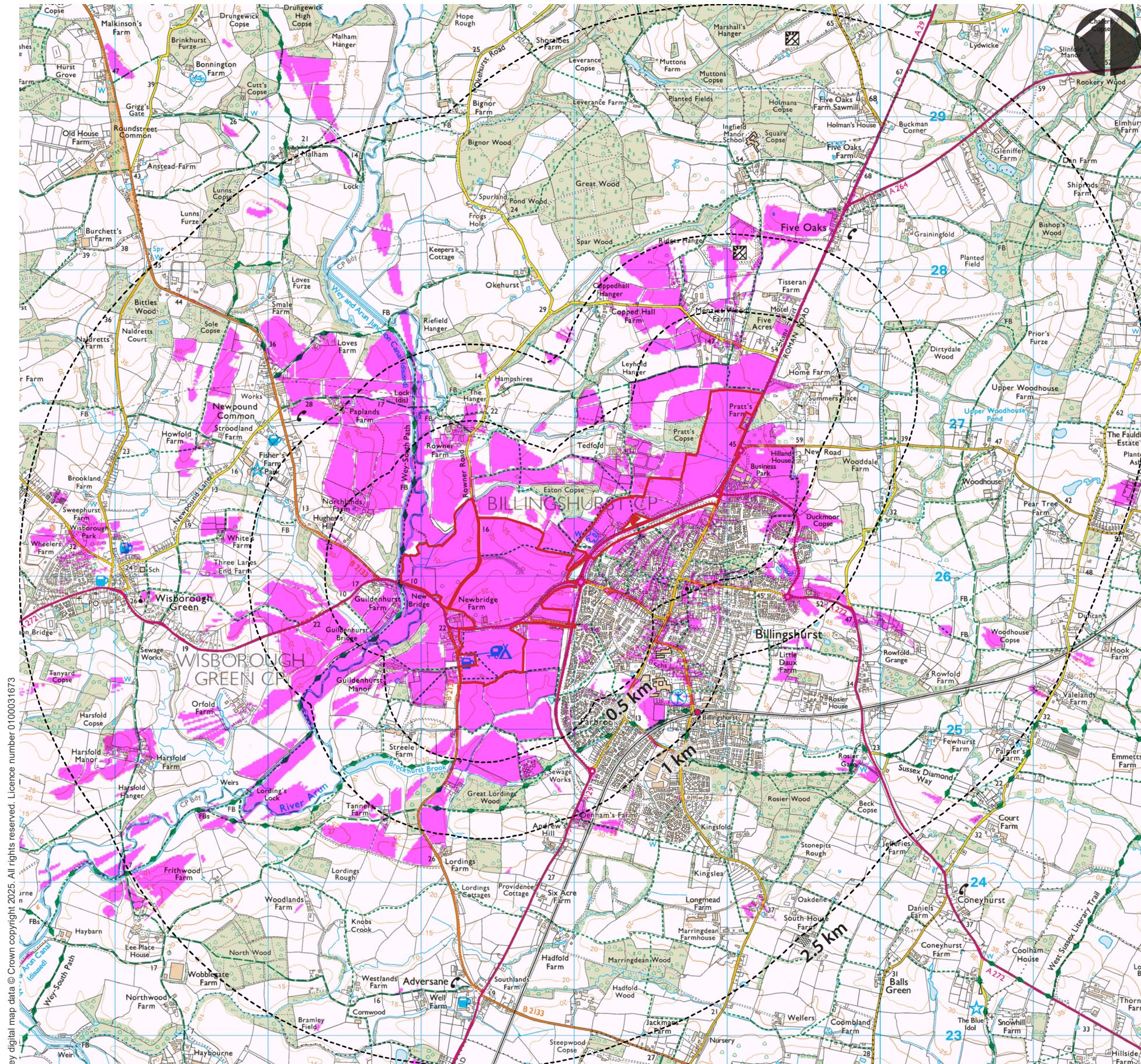
Unmanaged Hedgerows: 5 m

Managed Hedgerows: 2 m

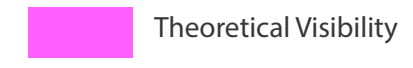
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Key:



Layout Information

The terrain data used EA LIDAR 2 m DTM.

Viewer height used in calculation 1.60 m.

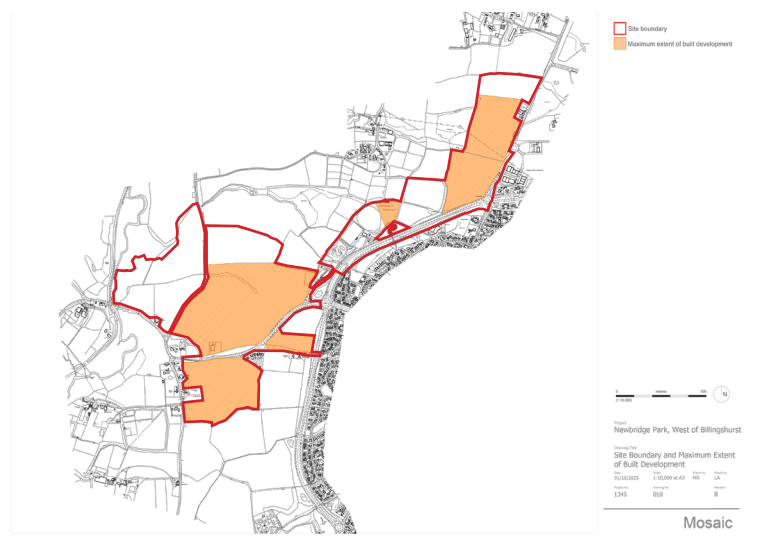
Target heights set 15 m Above Ground Level (AGL) - 677 total target points.

Target heights Above Ordnance Datum ranging from 28.41 to 63.42 m(AOD).

This ZTV includes the screening effects of buildings and vegetation in the study area (AGL):

- Buildings:** Up to 17.3 m
- Woodland:** Up to 30.3 m
- Unmanaged Hedgerows:** 5 m
- Managed Hedgerows:** 2 m

The calculation takes into account the effects of the curvature of the earth and light refraction. The calculation does not use mathematically approximate methods.



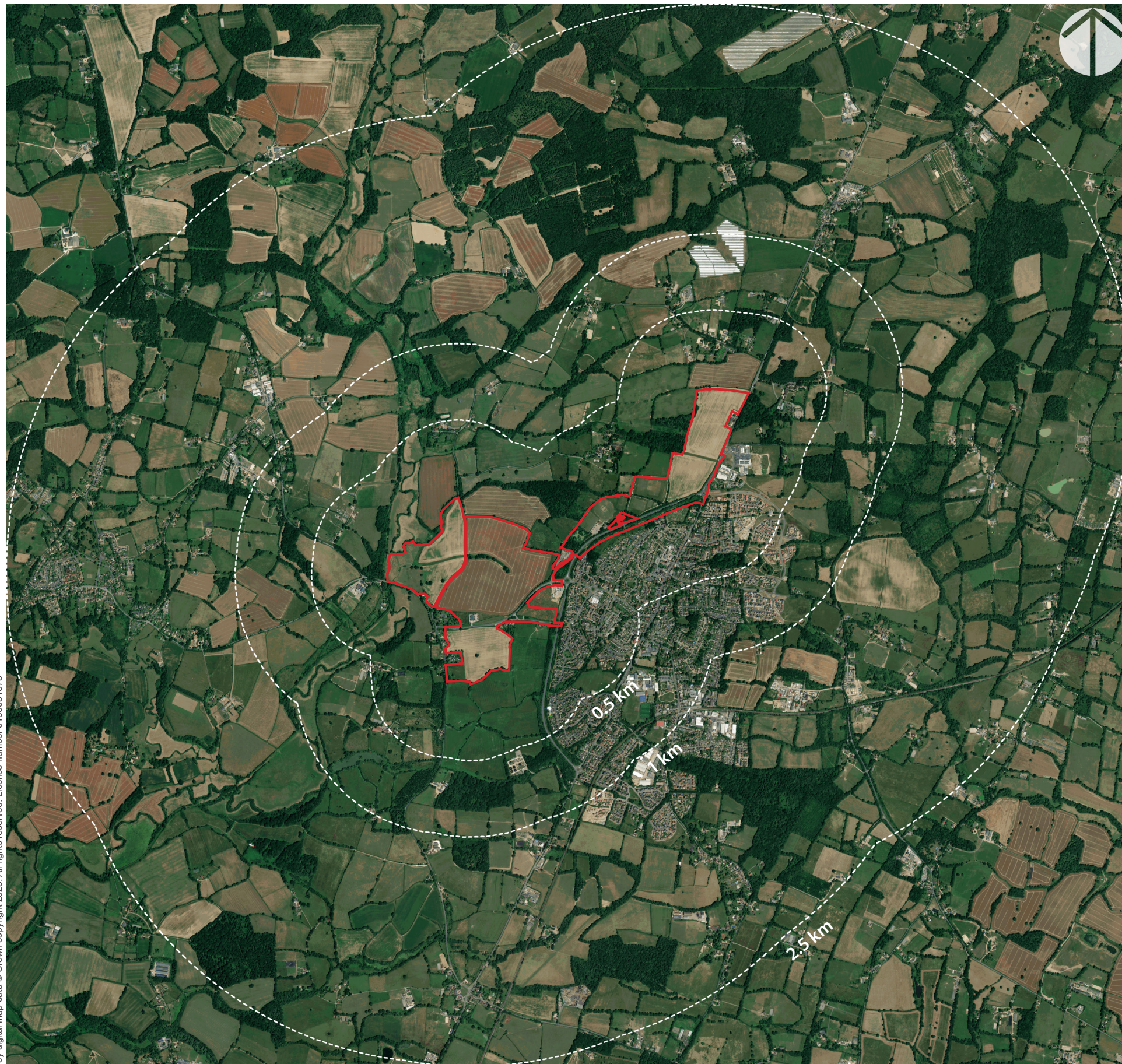
Zone of Visual Influence - Visual Buffers Calculation

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Land Cover

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Landscape and Visual Impact Appraisal



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Key:



Site Location

Layout Information

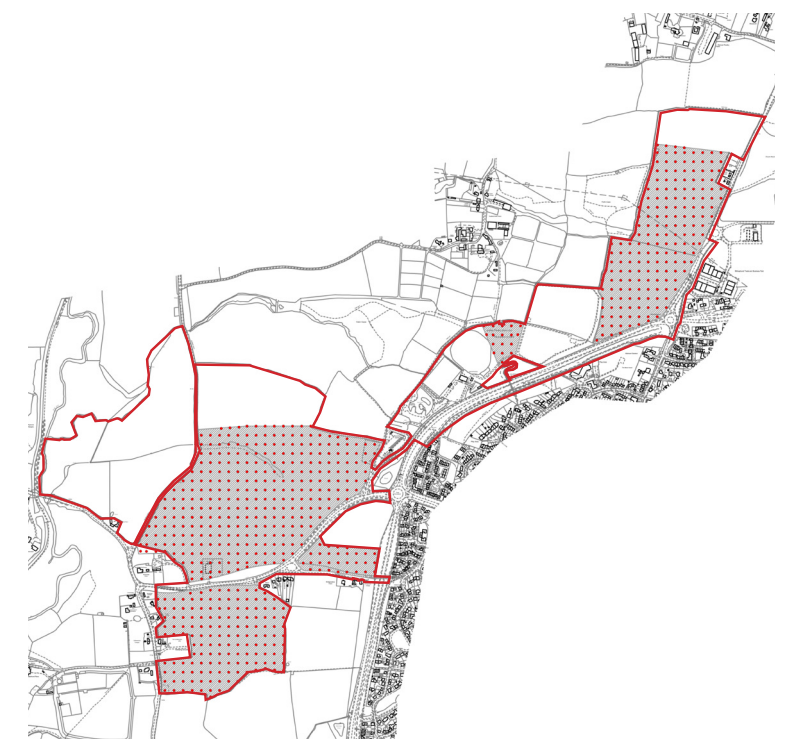
The terrain data used DEFRA LIDAR 2 m DTM.

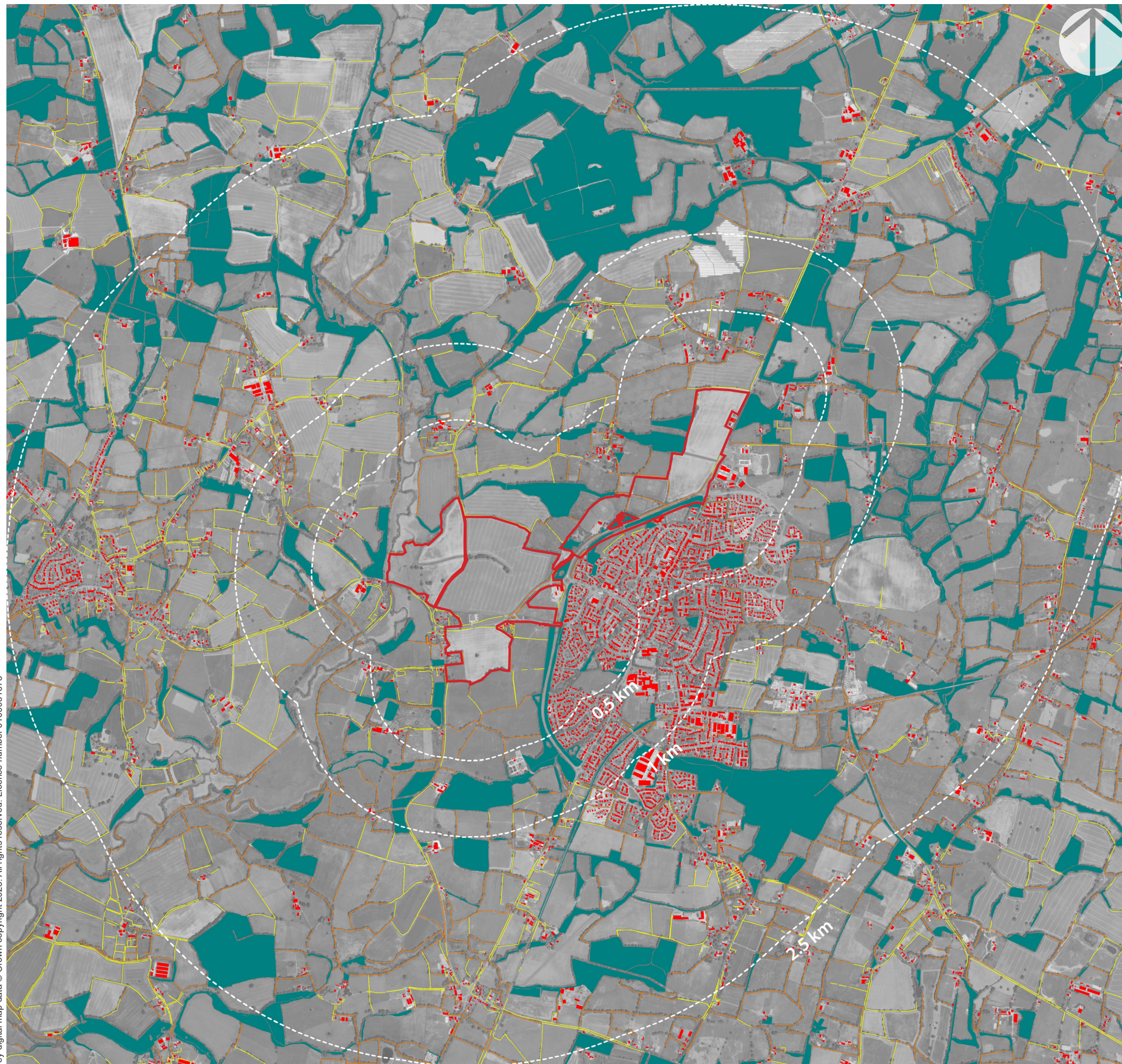
Viewer height used in calculation 1.60 m.

1 m pixel resolution aerial imagery.

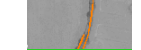
This is a complex GIS calculation using Industry Standard software.

Target Point Locations (AGL): ● 15 m (677 Target Points)





Key:

-  Site Location
-  Buildings (< 17.3 m)
-  Woodland (< 30.3 m)
-  Unmanaged Hedgerows (5 m)
-  Managed Hedgerows (2 m)

Layout Information

The terrain data used DEFRA LIDAR 2 m DTM.

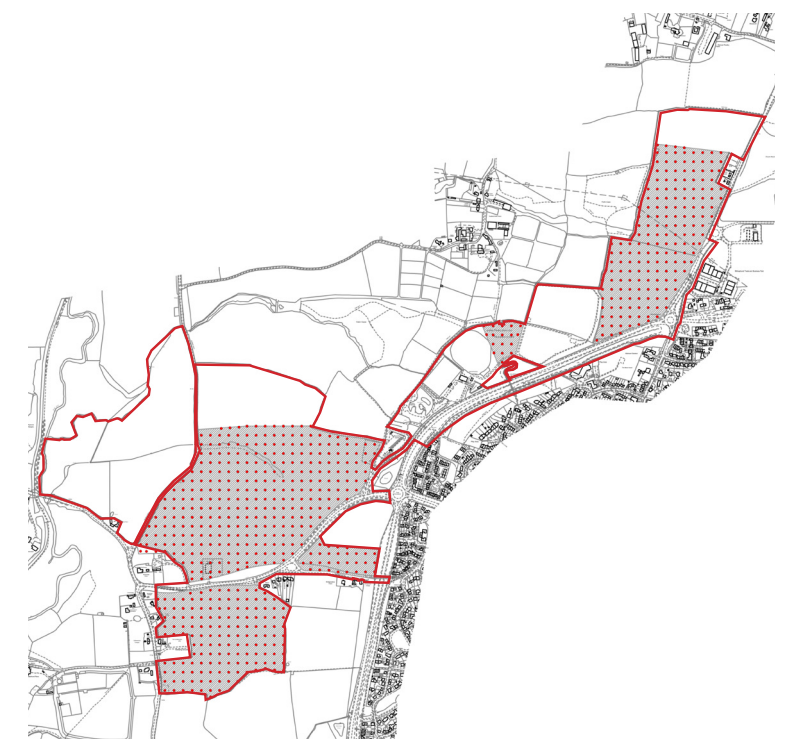
Viewer height used in calculation 1.60 m.

Shapefiles digitised from Hi Res aerial photography. Building height and Woodland height added from DEFRA LIDAR DSM 1 m data.

All visual buffers were removed from within Built Development areas.

This is a complex GIS calculation using Industry Standard software.

Target Point Locations (AGL): ● 15 m (677 Target Points)



Zone of Visual Influence - Shapefiles used in Visual Buffers Calculation

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Landscape and Visual Impact Appraisal





Key:



Site Location



Buildings



< 9 m



> 10 m

Layout Information

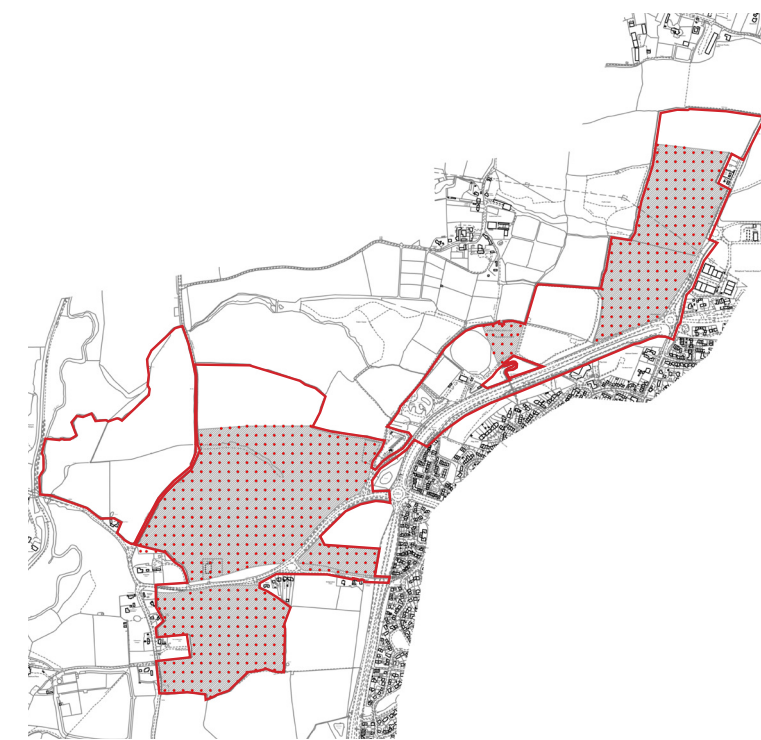
The terrain data used DEFRA LIDAR 2 m DTM.

Viewer height used in calculation 1.60 m.

Shapefiles digitised from Hi Res aerial photography. Building heights (maximum) added from DEFRA LIDAR DSM 1 m data.

This is a complex GIS calculation using Industry Standard software.

Target Point Locations (AGL): ● 15 m (677 Target Points)



Zone of Visual Influence - Maximum Building Heights used in Visual Buffers Calculation

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Key:



Site Location



Woodland

< 9 m

10 - 19 m

20 - 29 m

> 30 m

Layout Information

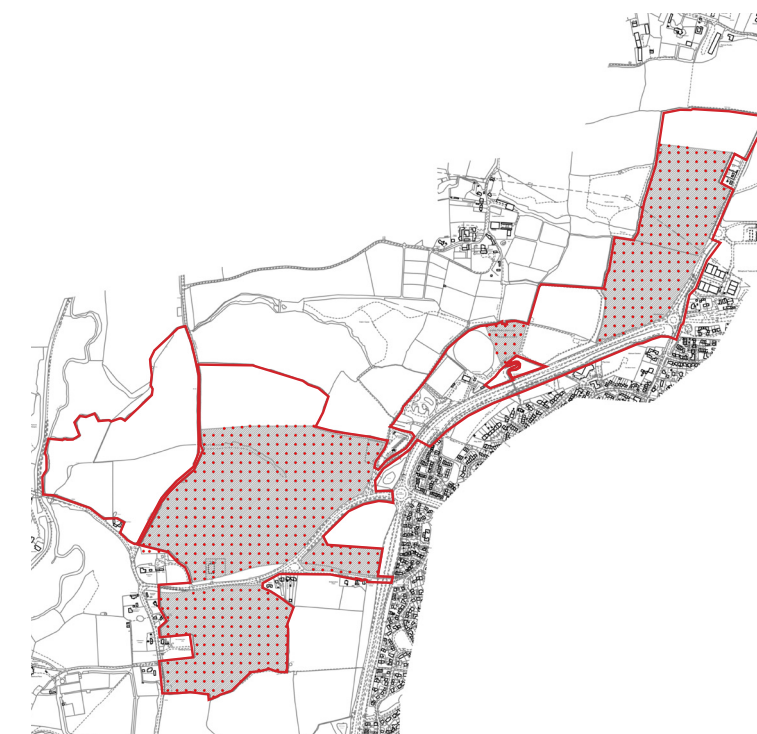
The terrain data used DEFRA LIDAR 2 m DTM.

Viewer height used in calculation 1.60 m.

Shapefiles digitised from Hi Res aerial photography. Woodland heights (maximum) added from DEFRA LIDAR DSM 1 m data.

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Target Point Locations (AGL): ● 15 m (677 Target Points)



Zone of Visual Influence - Maximum Woodland Heights used in Visual Buffers Calculation

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