vista3d
verified visualisers

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Hillingdon Gardens

Verified Views - V3D 170401

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1.0 Introduction

1.1. Verified View / Accurate Visual Representation

1.1.1. A Verified View (VV) or Accurate Visual Representation (AVR) is *"a still image, or animated sequence of images, intended to convey reliable visual information about a proposed development to assist the process of visual assessment".* [1]

1.1.2. This document applies current good practice in preparing verified views of a proposed development. Views are from what is considered to be the most representative viewpoints in the area surrounding the site.

1.1.3. The current practice guides this process is informed by include:

- The Landscape Institute's, 'Technical Guidance Note 06/19 : Visual Representation of Development Proposals'
- 'Guidelines for Landscape and Visual Impact Assessment' Third edition April 2013, The landscape institute and Institute of Environmental Assessment and Management.
- 'London View Management Framework', (March 2012) Published by Greater London Authority.

1.1.4. It is advised (within the Landscape Institute's Technical Guidance Note 06/19) that the viewing distance for the montages from eye to paper should be shown at 30-50cm. These figures determine the horizontal field of view and in this assessment, it is shown at 72 degrees so that they can be viewed at 30cm when printed at A3.

[1] London View Management Framework March 2012

2.0 Methodology

2.1. Overview

2.1.1. In preparing the verified views/photomontages, accurate photography is required, with survey information recorded, and an accurate model of the application parameters prepared. In simple terms, this allows a 'virtual' viewpoint to be constructed that accurately reflects an actual photograph, which in turn allows a wireline (representing the outline of the proposed development form) or fully rendered image of the proposed development to be accurately superimposed on the existing photograph.

2.2. Photography

2.2.1. In accordance with current guidance, on-site photography records the position (as a grid reference), height of camera lens, camera used, lens type and focal length, field of view, date and time. Photographs were recorded at 1.6 metres above ground level to reflect the pedestrian eye height. Photographs are taken with a fixed 50mm focal length lens attached to a SLR camera (Canon EOS 5D MKII).

2.2.2. In assessing the impact of development on the landscape it is often necessary to record a panoramic view. A panorama made up from planar photographs is not strictly a 'true panorama' due to distortion encountered from the rectilinear projection of the lens. This is best described by looking through the viewfinder as you rotate the camera, the objects near the centre get larger as they approach the edge of the frame. Accurate 'stitching software' overcomes this effect by distorting each image into a cylindrical projection before aligning and blending, to reflect as accurately as possible the experience of the human eye.

2.3. Survey Information

2.3.1. On site surveying is carried out at the same time that the photographs are taken to record the position and height (Above Ordnance Datum) of the camera and its tripod alongside a range of 6 to 10 physical reference points per viewpoint (such as telegraph poles, road signs, or in the absence of sufficient existing reference points, ranging poles). To ensure the accuracy, the surveyed data was cross-referenced against OS information as well as the topographical site survey. This data is subsequently transferred into computer modelling software to produce an accurate 'virtual' view reflecting the actual panoramic photograph. Reference points are captured by a Total Station (the surveyors on-site equipment) with an electronic distance meter (EDM) which reads slope distances from the instrument to a particular point. These points are used to align the computer image against the photography.

2.4. Scheme Parameters Modelling

2.4.1. The General Arrangement Plan on pg7 provides a layout that is reflective of how the proposed application site could be developed, and is therefore considered to be an acceptable basis for verified view production. The 3D model has been formed with reference to the plan and elevation drawings (prepared by ColladoCollinsArchitects).

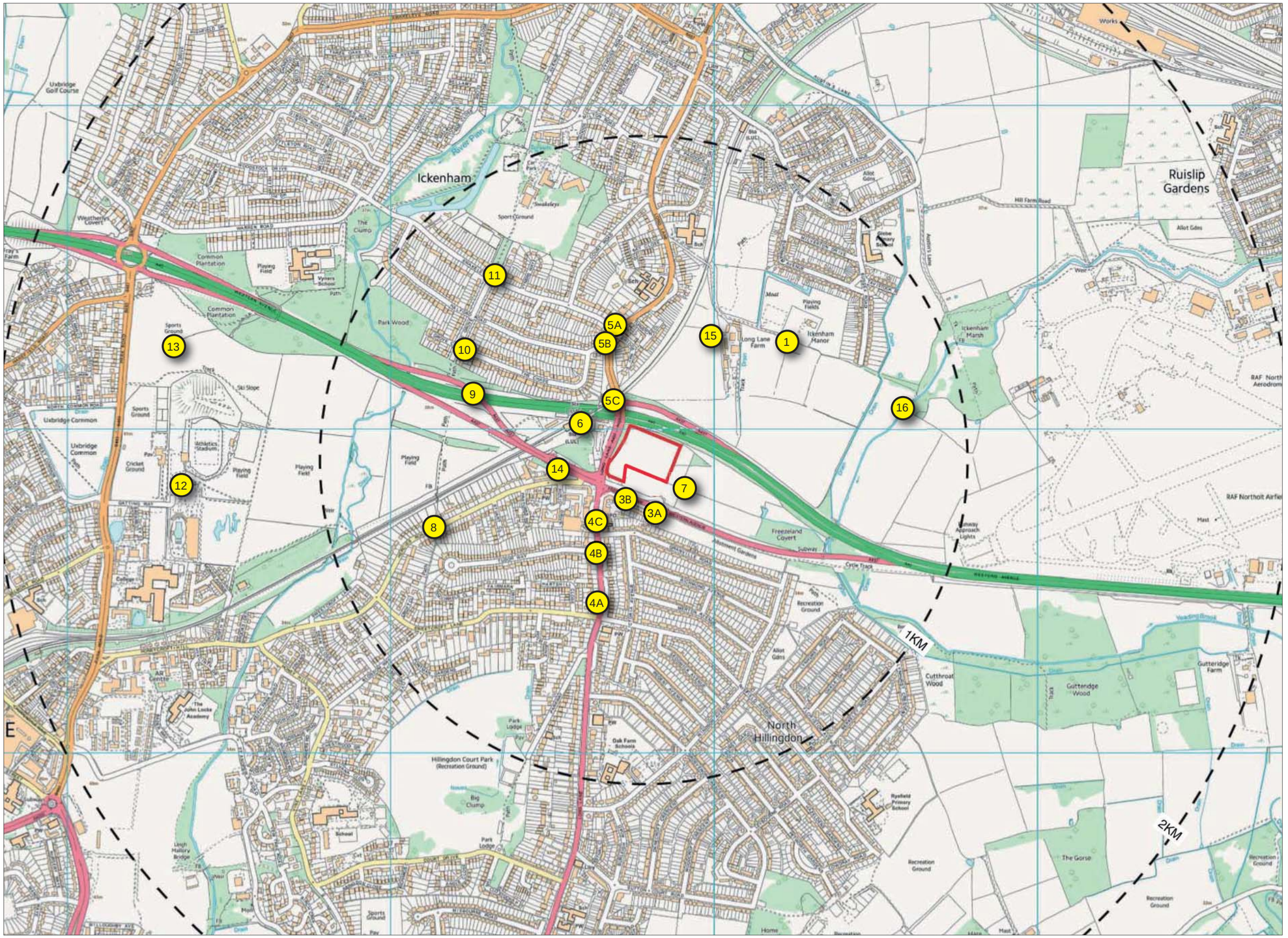
2.5. Camera Matching

2.5.1. Having accurately modelled the scheme, a series of computer generated images are constructed from the exact viewpoint locations and have cylindrical projection applied before photo-stitching to match the panoramic photographs, thus creating a 'virtual' panorama of the proposed development. With the virtual and photographic images overlaid with each other, common (surveyed) reference points are used to align both the virtual and photographic image before the wireline is drawn.

Proposed Development

Not visivble/Glimpsed

3.0 Viewpoint Location Plan



Legend

Site Boundary

X Viewpoint Location

N

SCALE 1:10,000

50 150

0m 100 250 500

4.0 General Arrangement Plan

Legend

Site Boundary

Council Owned Land

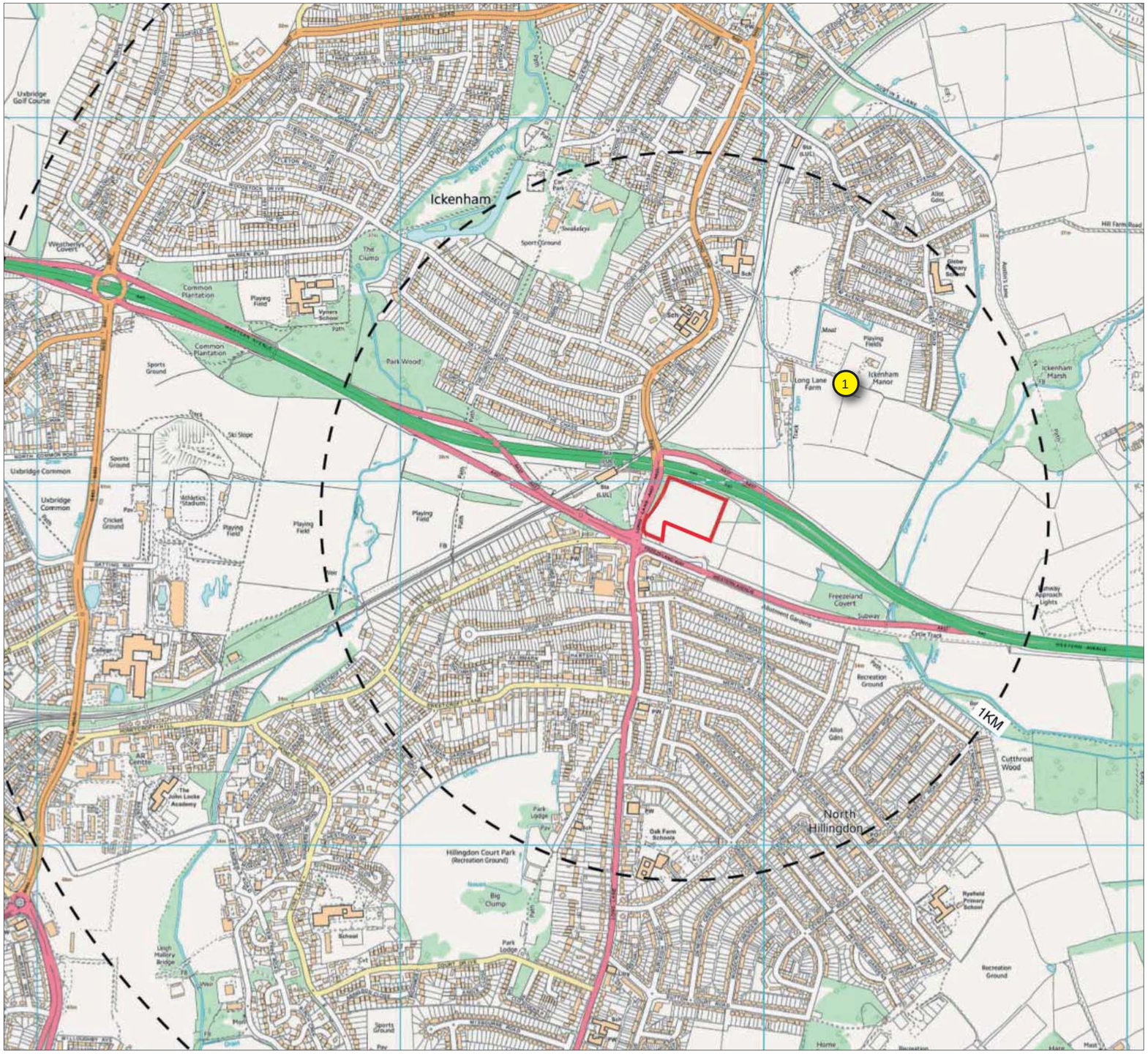
N

NTS.

5.0 Viewpoint 1

Location Description:	The field to the south of Ickenham Manor
National Grid Reference:	508220.0370, 185277.1020
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	38.51 AOD
Horizontal Field of View:	72 °
Date:	09.05.17
Time:	11.24

Tripod Location



5.1. Viewpoint 1

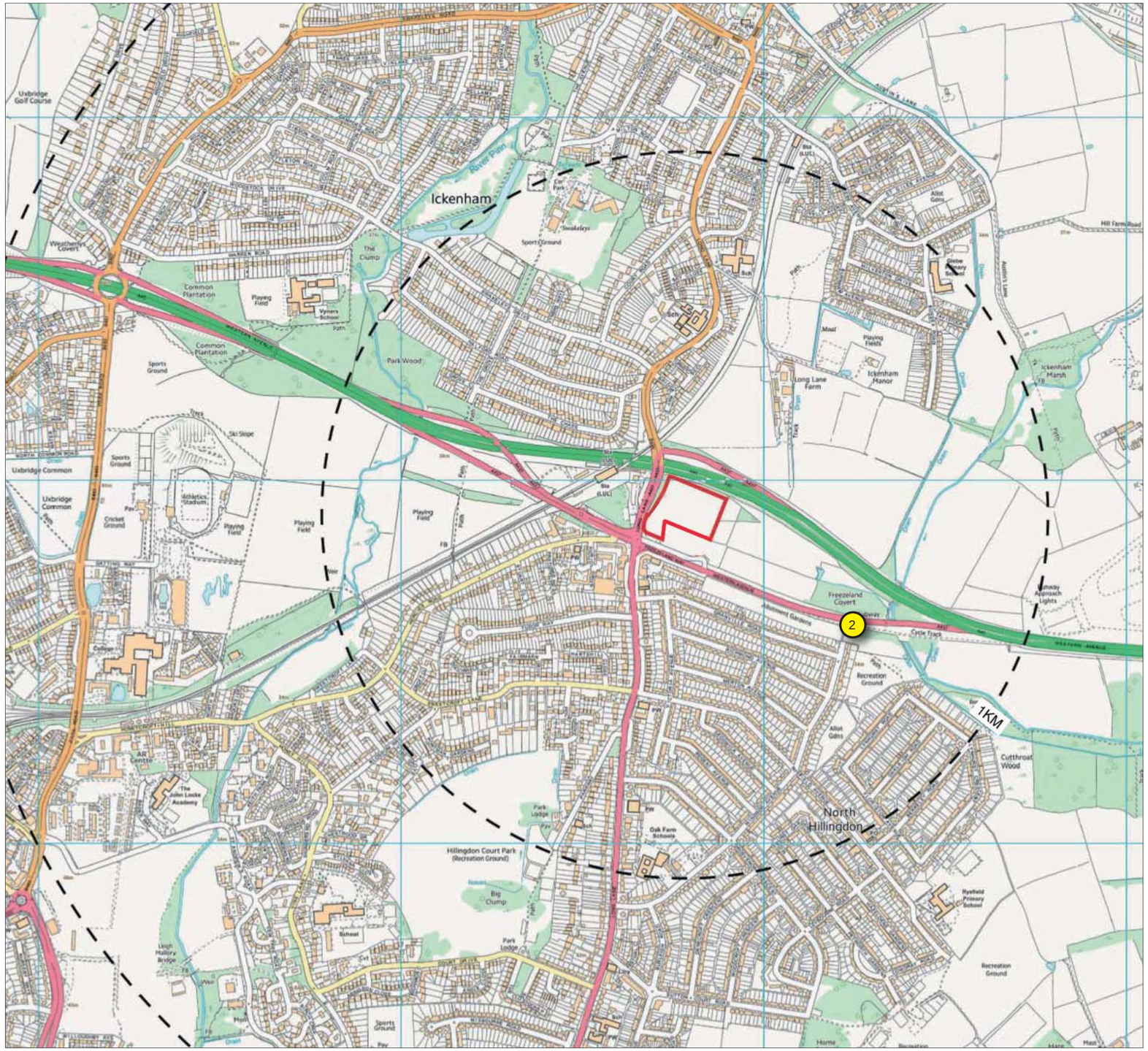
5.1.1. Extended panorama

5.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

6.0 Viewpoint 2

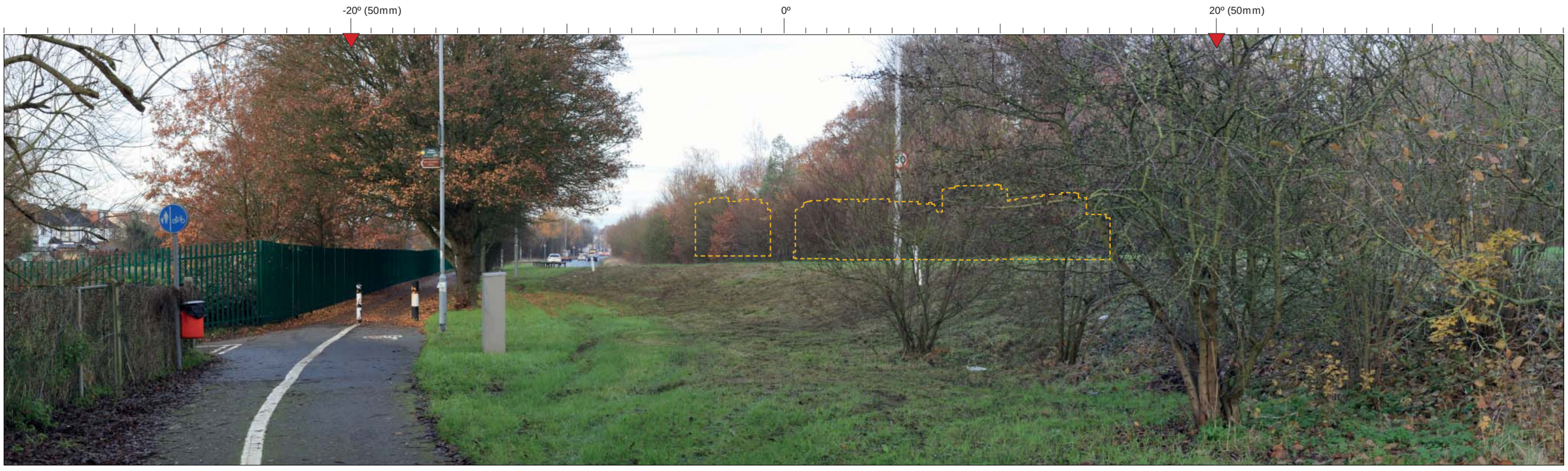
Location Description:	Hillingdon Trail / Freezeland Way A437
National Grid Reference:	508250.5270, 184595.8000
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	36.37 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	09.05

Tripod Location



6.1. Viewpoint 2

6.1.1. Extended panorama

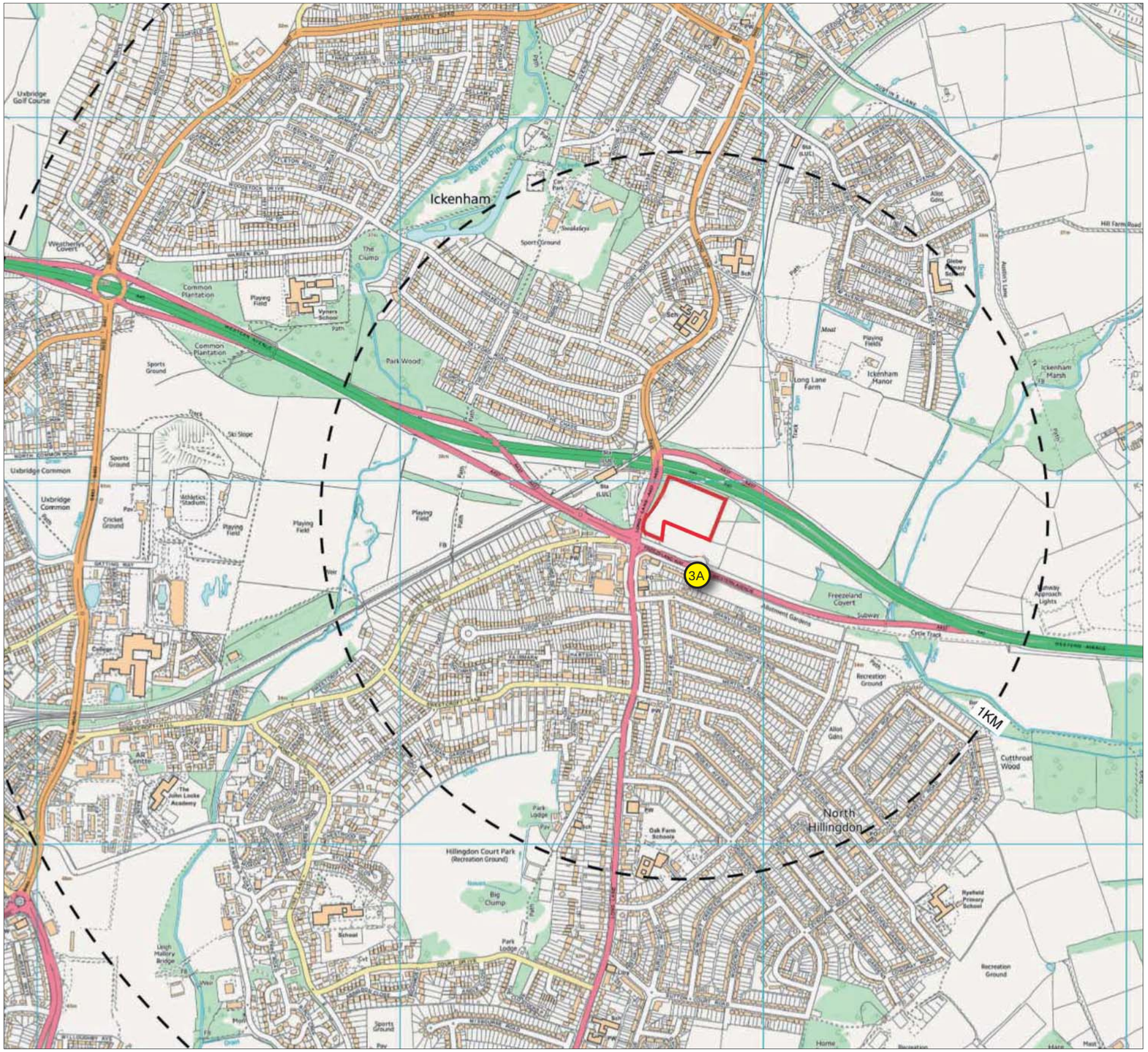


6.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

7.0 Viewpoint 3A

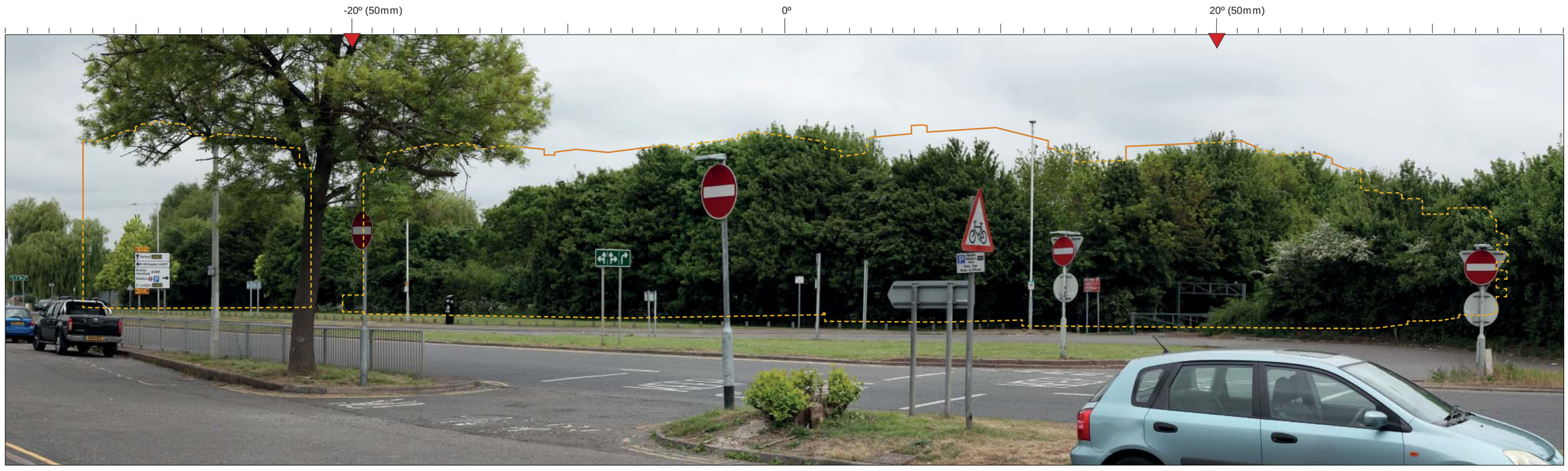
Location Description:	Hillingdon Trail / Western Avenue A437
National Grid Reference:	507828.2110, 184732.7350
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	37.20 AOD
Horizontal Field of View:	72 °
Date:	09.05.17
Time:	09.16

Tripod Location



7.1. Viewpoint 3A

7.1.1. Extended panorama

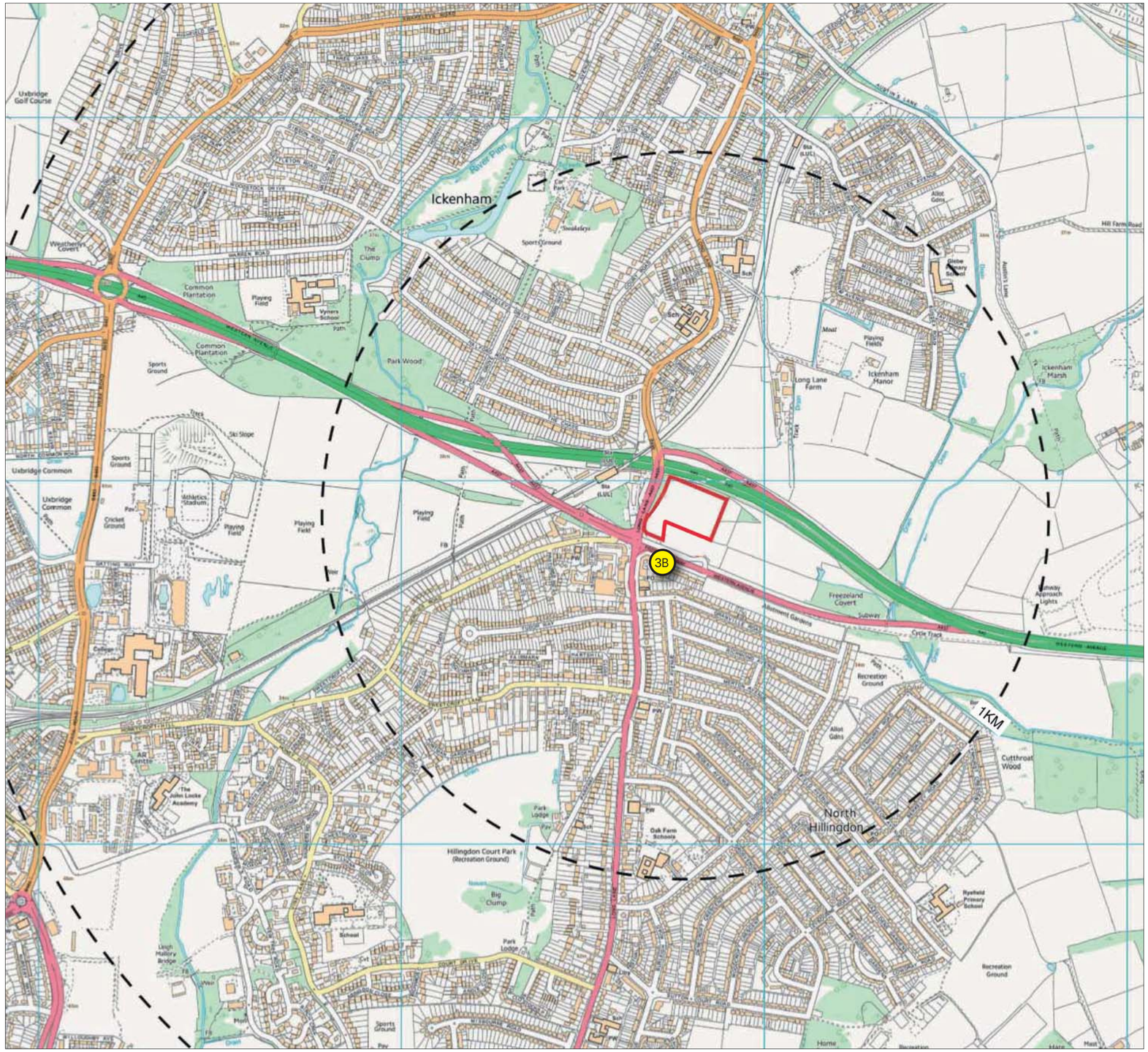


7.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

8.0 Viewpoint 3B

Location Description:	Freezeland Way
National Grid Reference:	507724.7180, 184779.3370
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	37.28 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	10.41

Tripod Location



8.1. Viewpoint 3B

8.1.1. Extended panorama

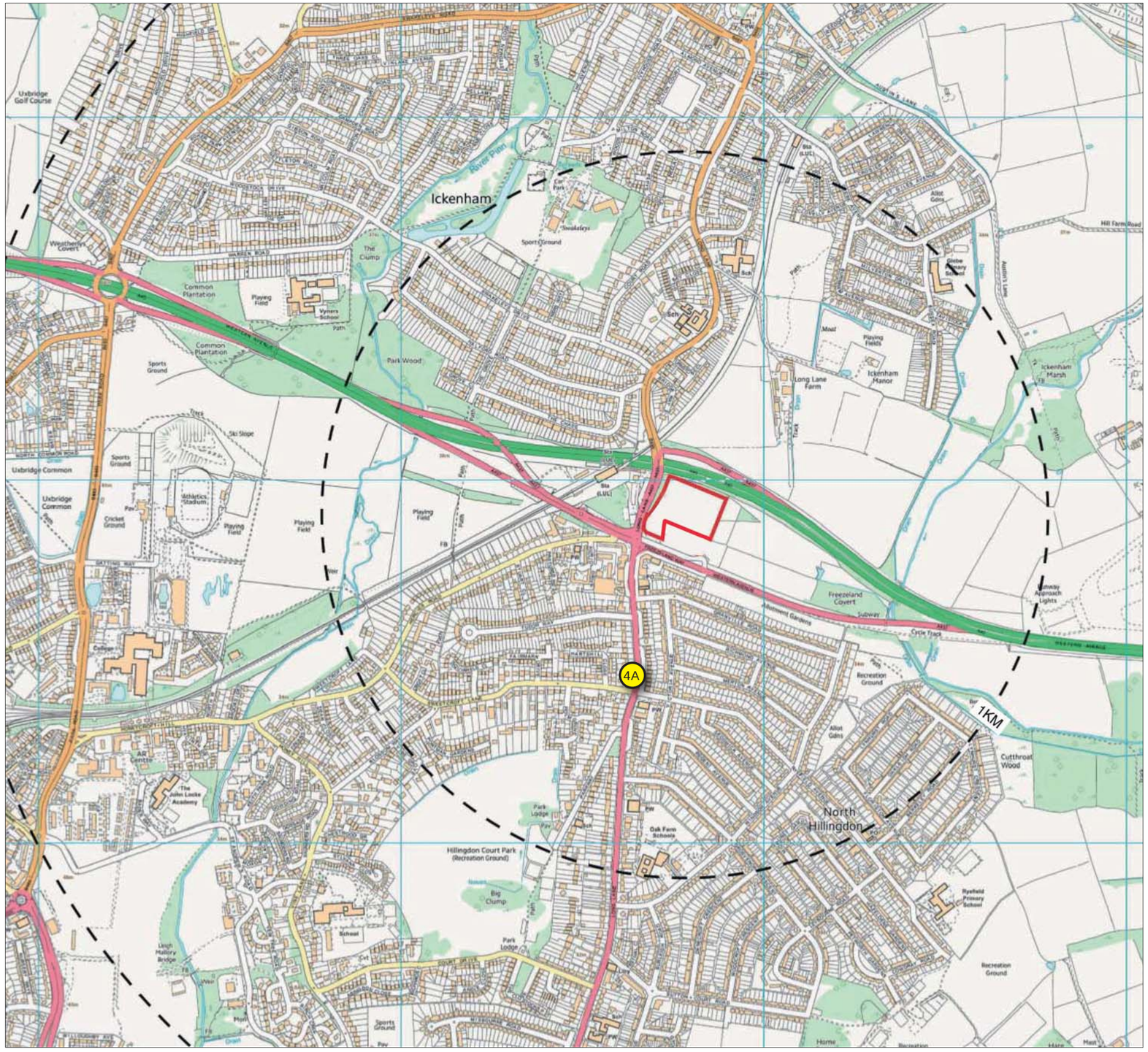
8.1.2. Existing baseline at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

8.1.3. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

9.0 Viewpoint 4A

Location Description:	Long Lane A437 / North Hillingdon
National Grid Reference:	507641.6340, 184467.9330
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	38.82 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	11.25

Tripod Location



9.1. Viewpoint 4A

9.1.1. Extended panorama

9.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

10.0Viewpoint 4B

Location Description:	Long Lane A437 / North Hillingdon
National Grid Reference:	507634.9380, 184614.933
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	39.31 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	11.41

Tripod Location

10.1. Viewpoint 4B

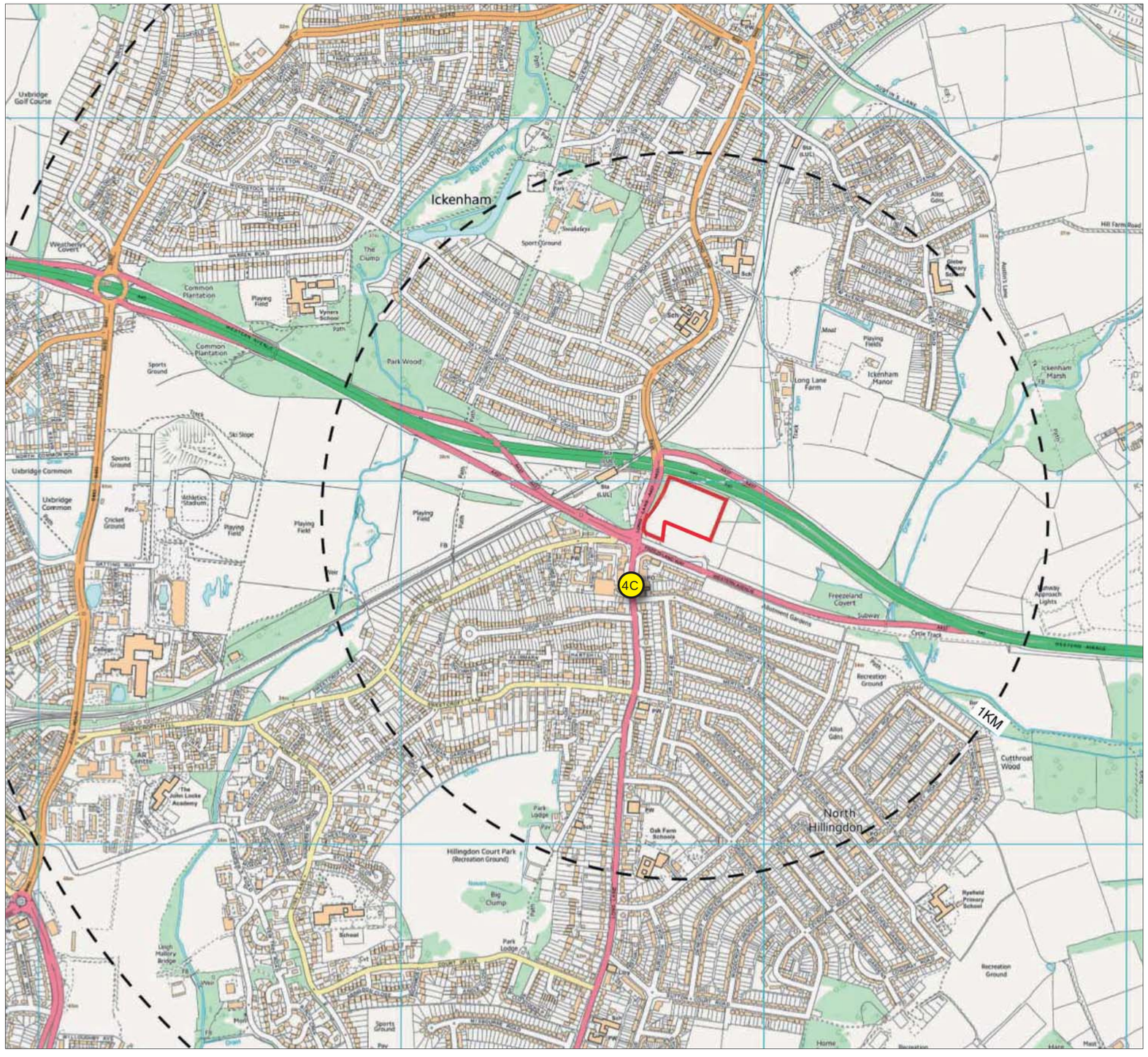
10.1.1. Extended panorama

10.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

11.0Viewpoint 4C

Location Description:	Long Lane A437 / North Hillingdon
National Grid Reference:	507625.8420, 184729.6290
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	38.33 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	11.51

Tripod Location



11.1. Viewpoint 4C

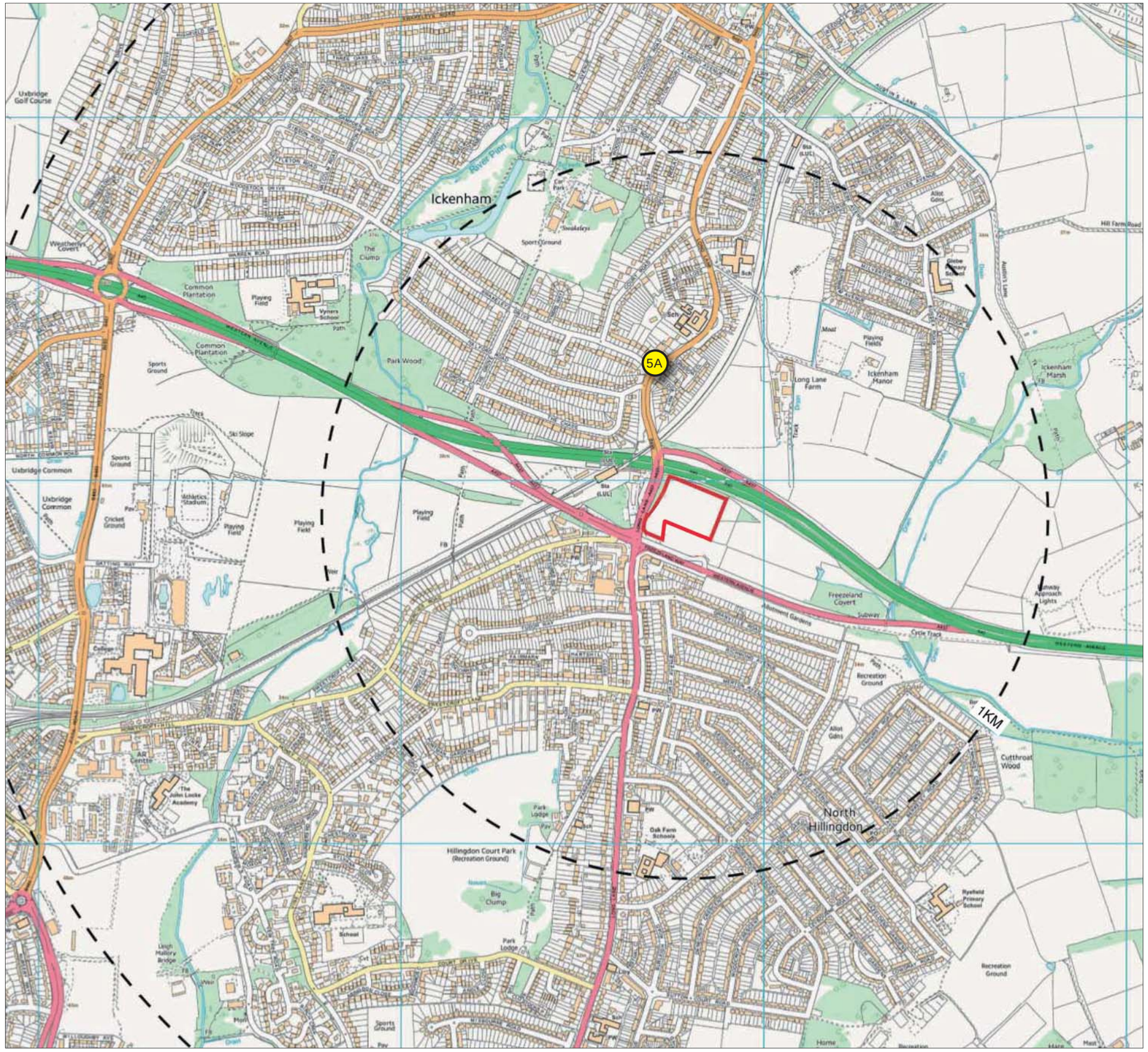
11.1.1. Extended panorama

11.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

12.0Viewpoint 5A

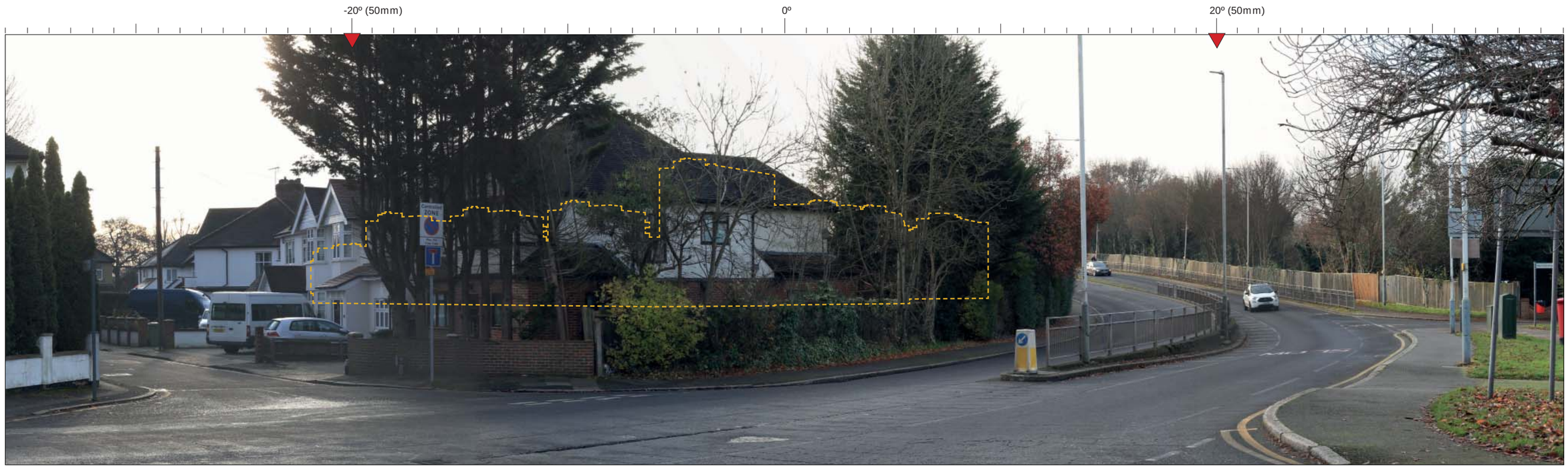
Location Description:	Long Lane B466
National Grid Reference:	507689.3670, 185312.2810
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	38.78 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	09.31

Tripod Location



12.1. Viewpoint 5A

12.1.1. Extended panorama

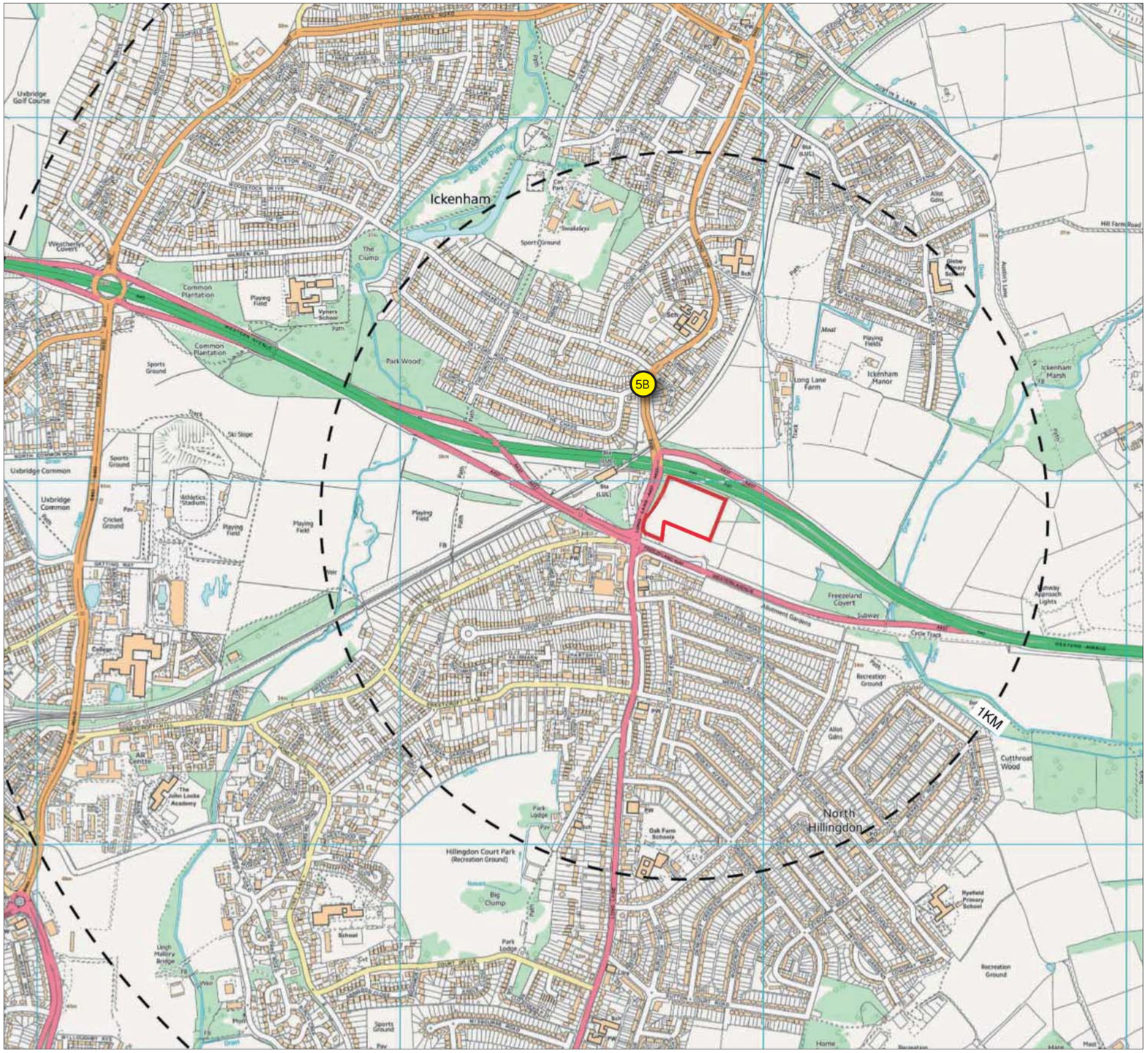


12.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

13.0Viewpoint 5B

Location Description:	Long Lane B466
National Grid Reference:	507664.9450, 185264.9930
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	38.51 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	09.37

Tripod Location



13.1. Viewpoint 5B

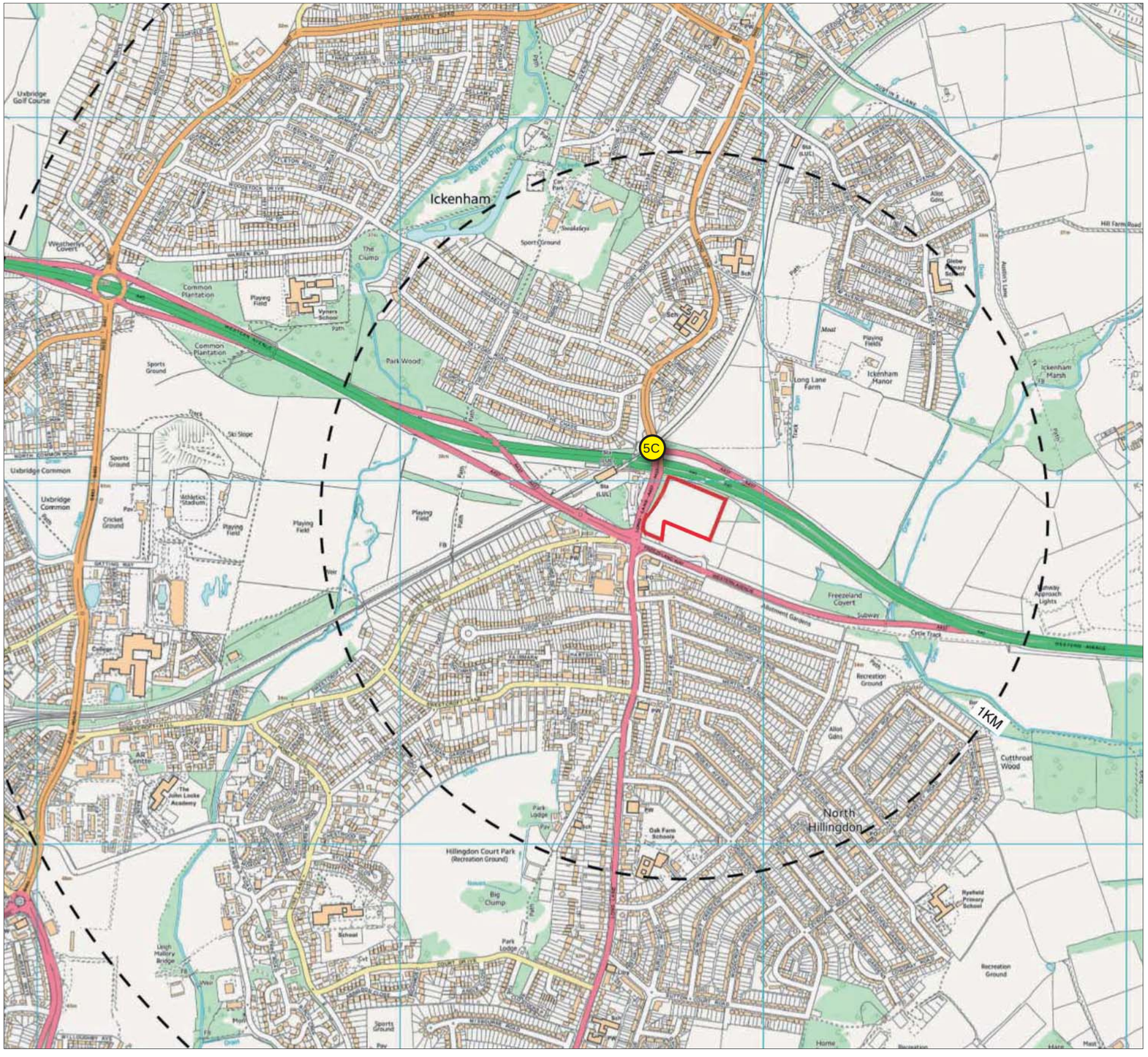
13.1.1. Extended panorama

13.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

14.0Viewpoint 5C

Location Description:	Long Lane B466
National Grid Reference:	507693.9420, 185079.5460
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	44.51 AOD
Horizontal Field of View:	72 °
Date:	09.05.17
Time:	09.48

Tripod Location



14.1. Viewpoint 5C

14.1.1. Extended panorama

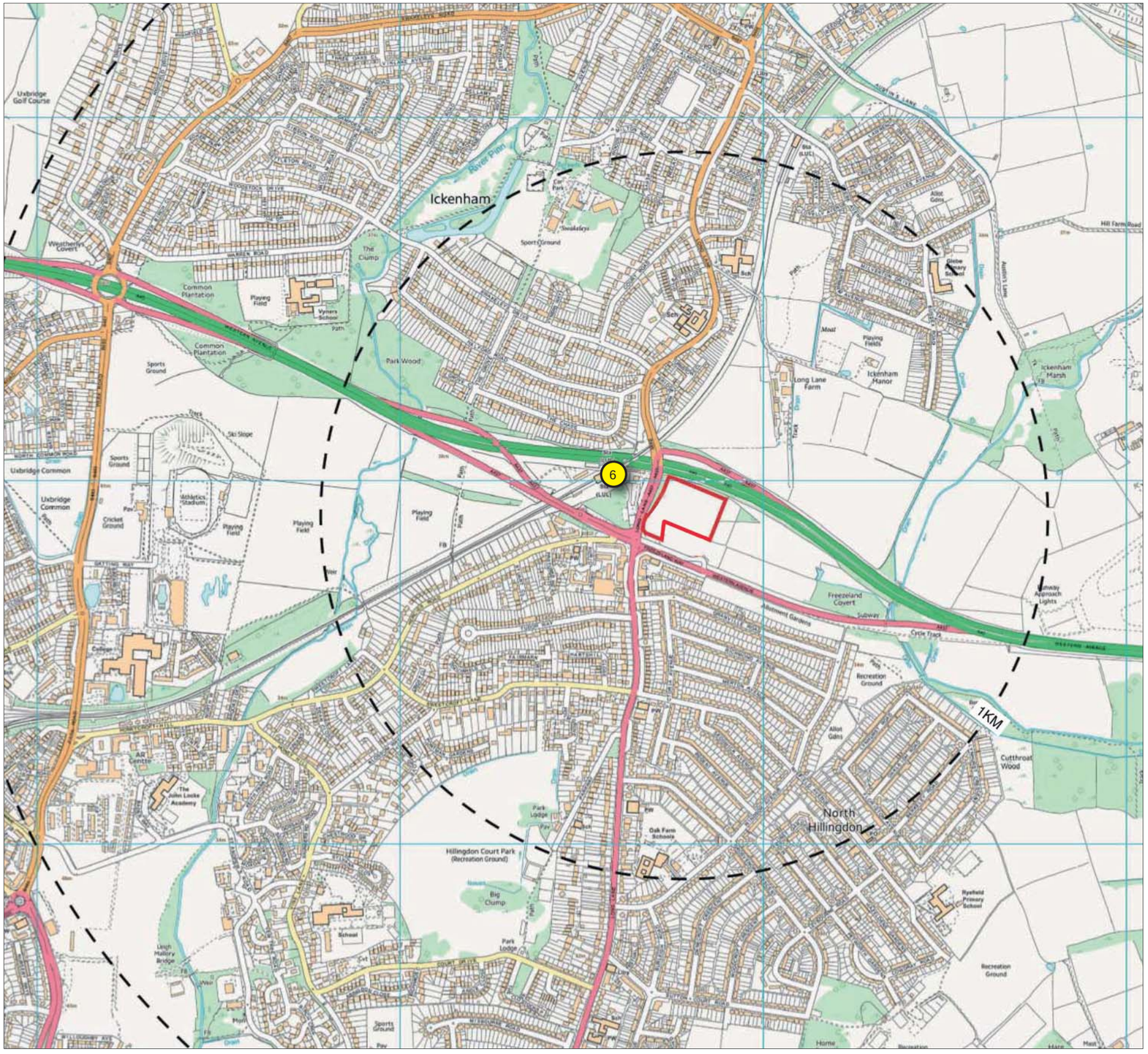
 14.1.2. Existing baseline at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

14.1.3. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

15.0Viewpoint 6

Location Description:	Hillingdon Station
National Grid Reference:	507595.0490, 185021.9730
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	44.40 AOD
Horizontal Field of View:	72 °
Date:	09.05.17
Time:	11.24

Tripod Location



15.1. Viewpoint 6

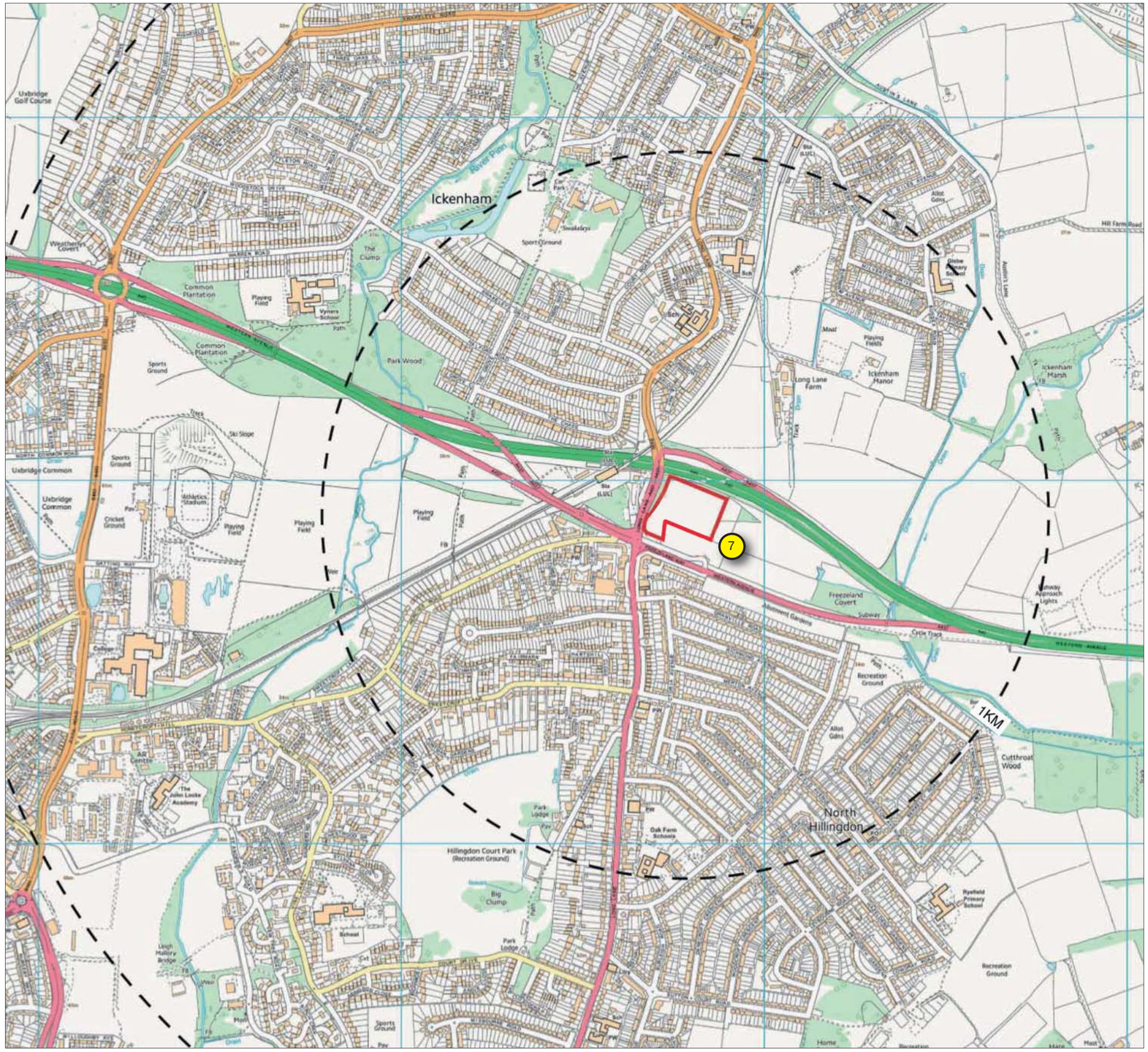
15.1.1. Extended panorama

15.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

16.0Viewpoint 7

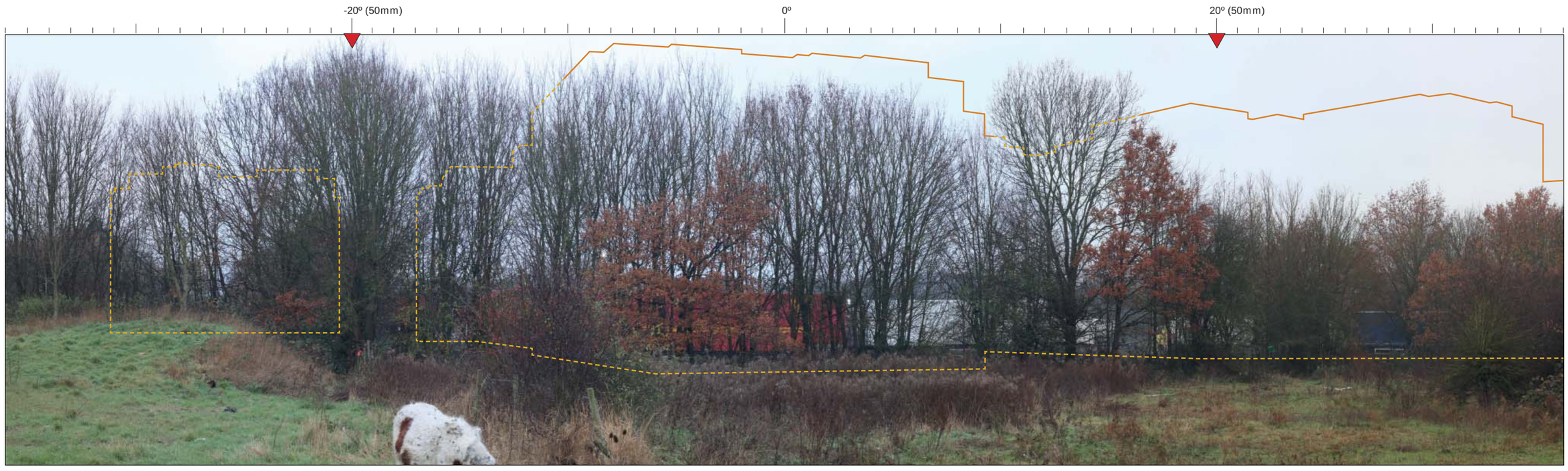
Location Description:	London Metropolitan Green Belt
National Grid Reference:	507895.2455, 184814.3597
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	36.33 AOD
Horizontal Field of View:	72 °
Date:	04.12.19
Time:	08.36

Tripod Location



16.1. Viewpoint 7

16.1.1. Extended panorama

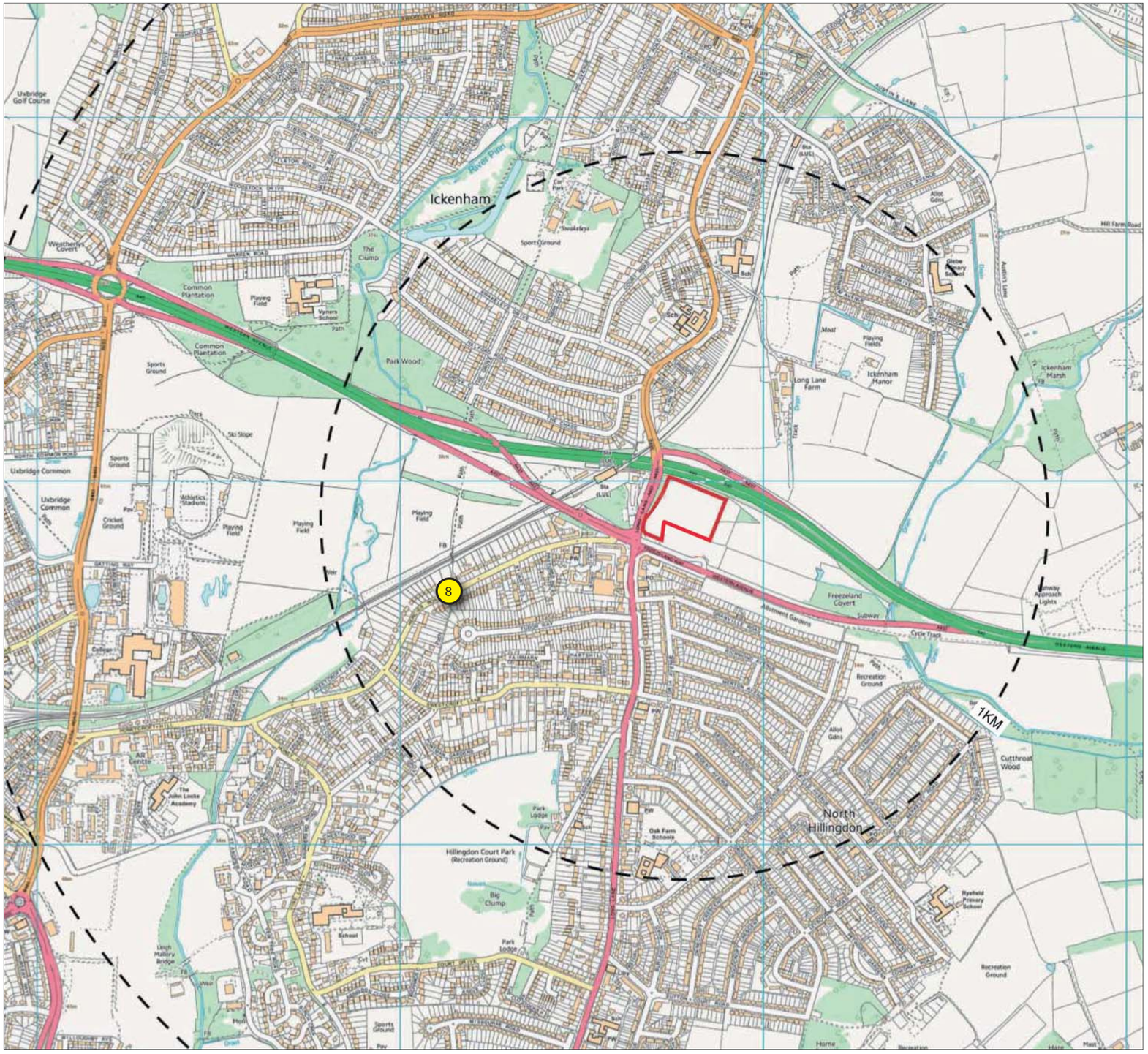


16.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

17.0Viewpoint 8

Location Description:	Hercies Road / Public footpath ref: U90
National Grid Reference:	507161.1620, 184700.1730
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	40.19 AOD
Horizontal Field of View:	72 °
Date:	16.05.17
Time:	09.09

Tripod Location



17.1. Viewpoint 8

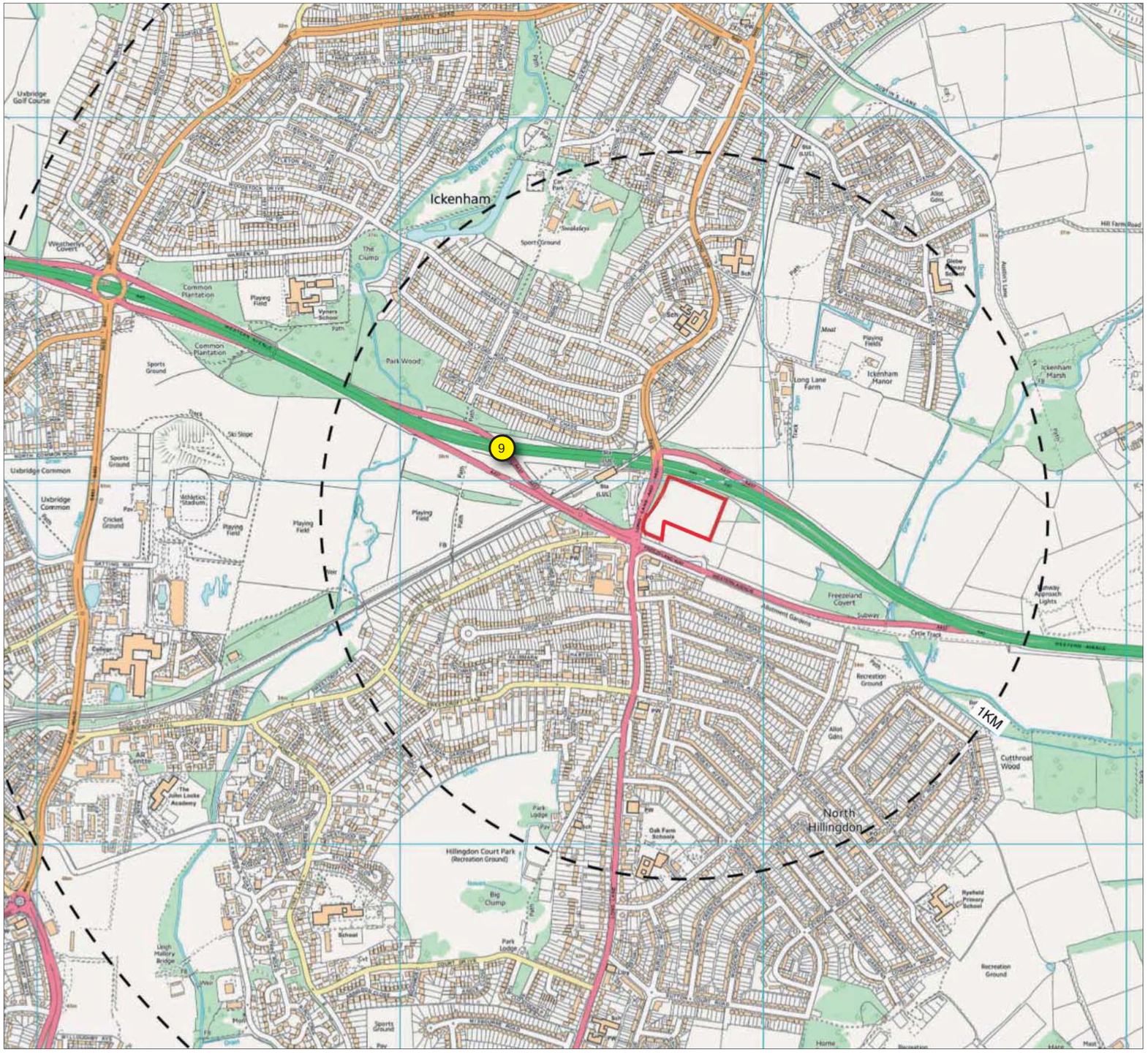
17.1.1. Extended panorama

17.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

18.0Viewpoint 9

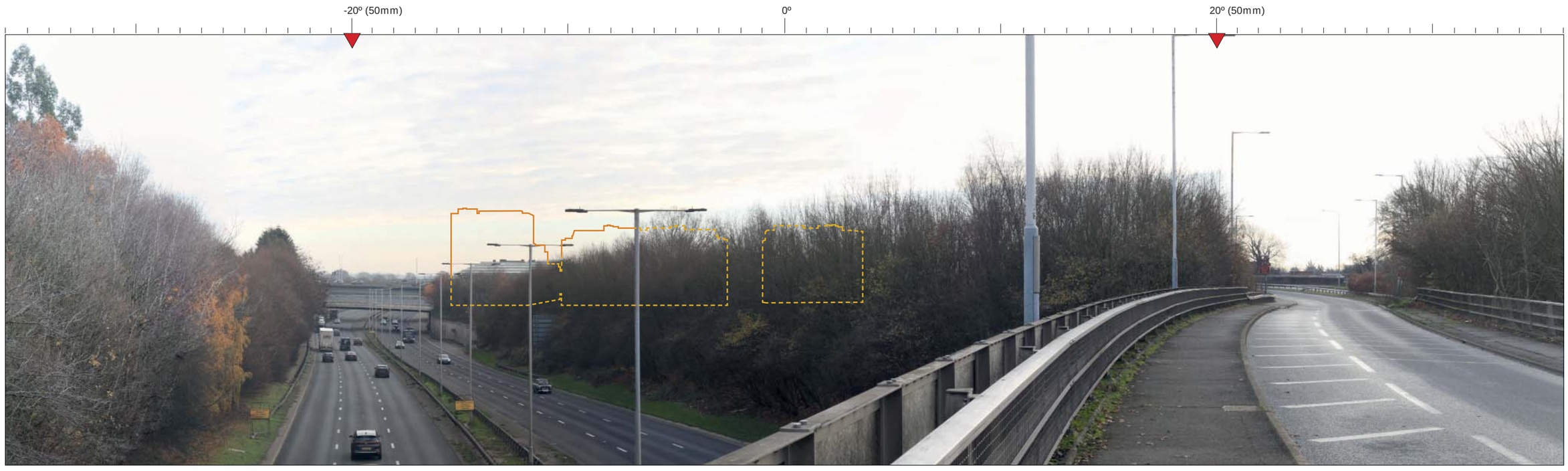
Location Description:	Western Avenue A437 / A40 Slip Road
National Grid Reference:	507272.9860, 185102.1360
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	44.87 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	10.25

Tripod Location



18.1. Viewpoint 9

18.1.1. Extended panorama

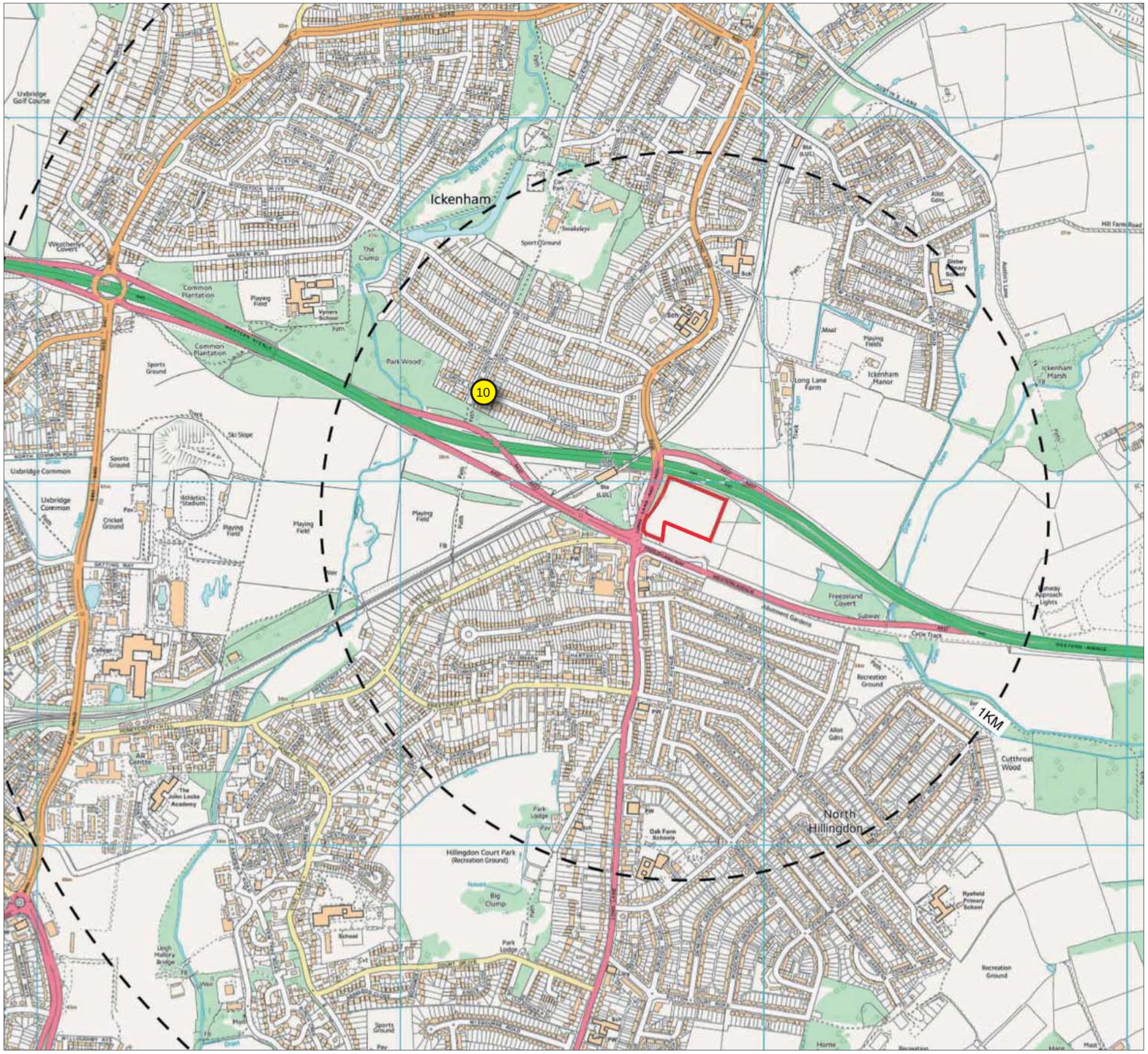


18.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

19.0Viewpoint 10

Location Description:	The Grove / The Chase (Ickenham)
National Grid Reference:	507254.3030, 185234.7320
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	40.05 AOD
Horizontal Field of View:	72 °
Date:	09.05.17
Time:	09.19

Tripod Location



19.1. Viewpoint 10

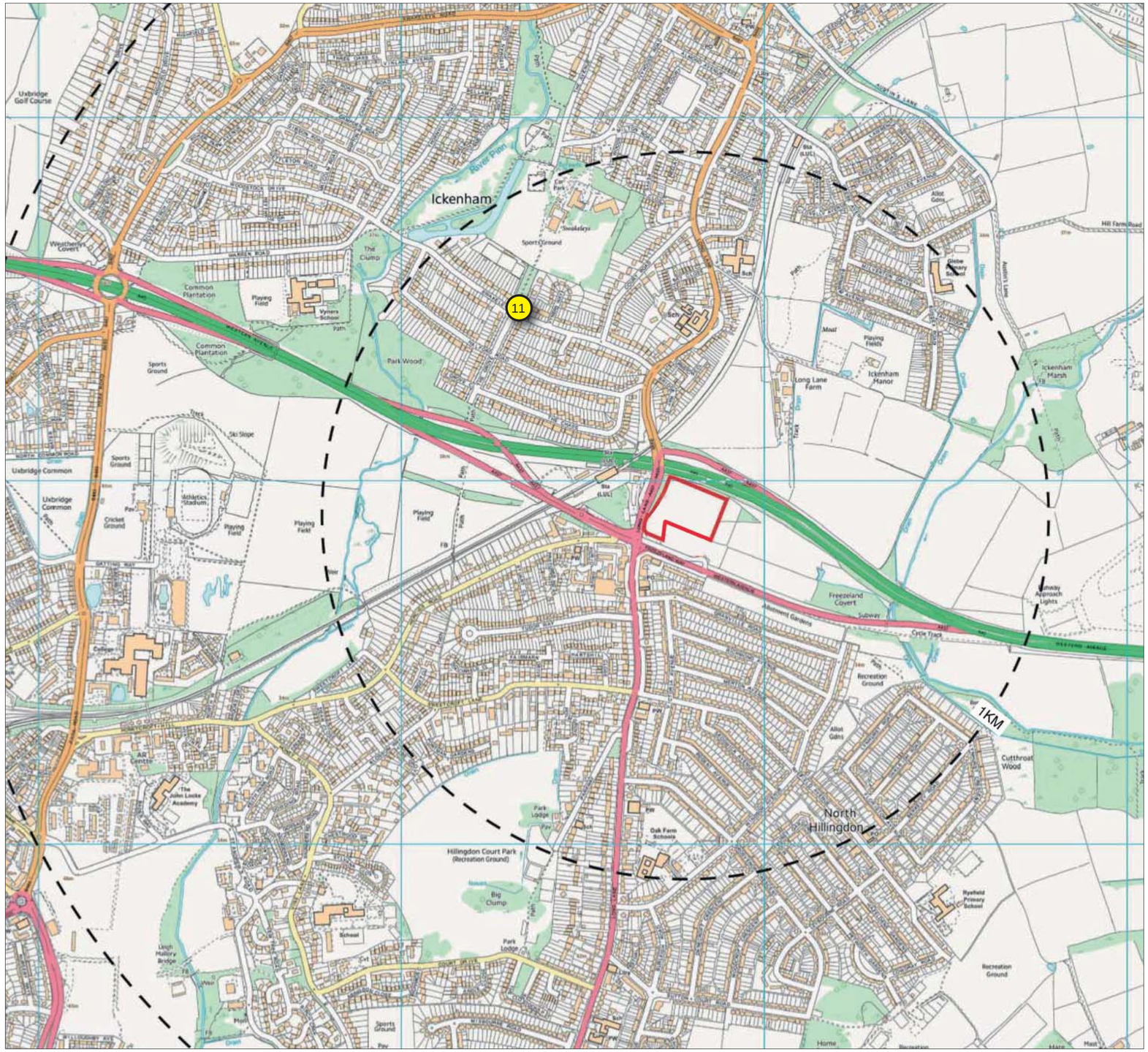
19.1.1. Extended panorama

19.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

20.0Viewpoint 11

Location Description:	Swakeley's Drive
Grid Reference:	507331.9790, 185462.3960
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	41.82 AOD
Horizontal Field of View:	72 °
Date:	09.05.17
Time:	10.56

Tripod Location



20.1. Viewpoint 11

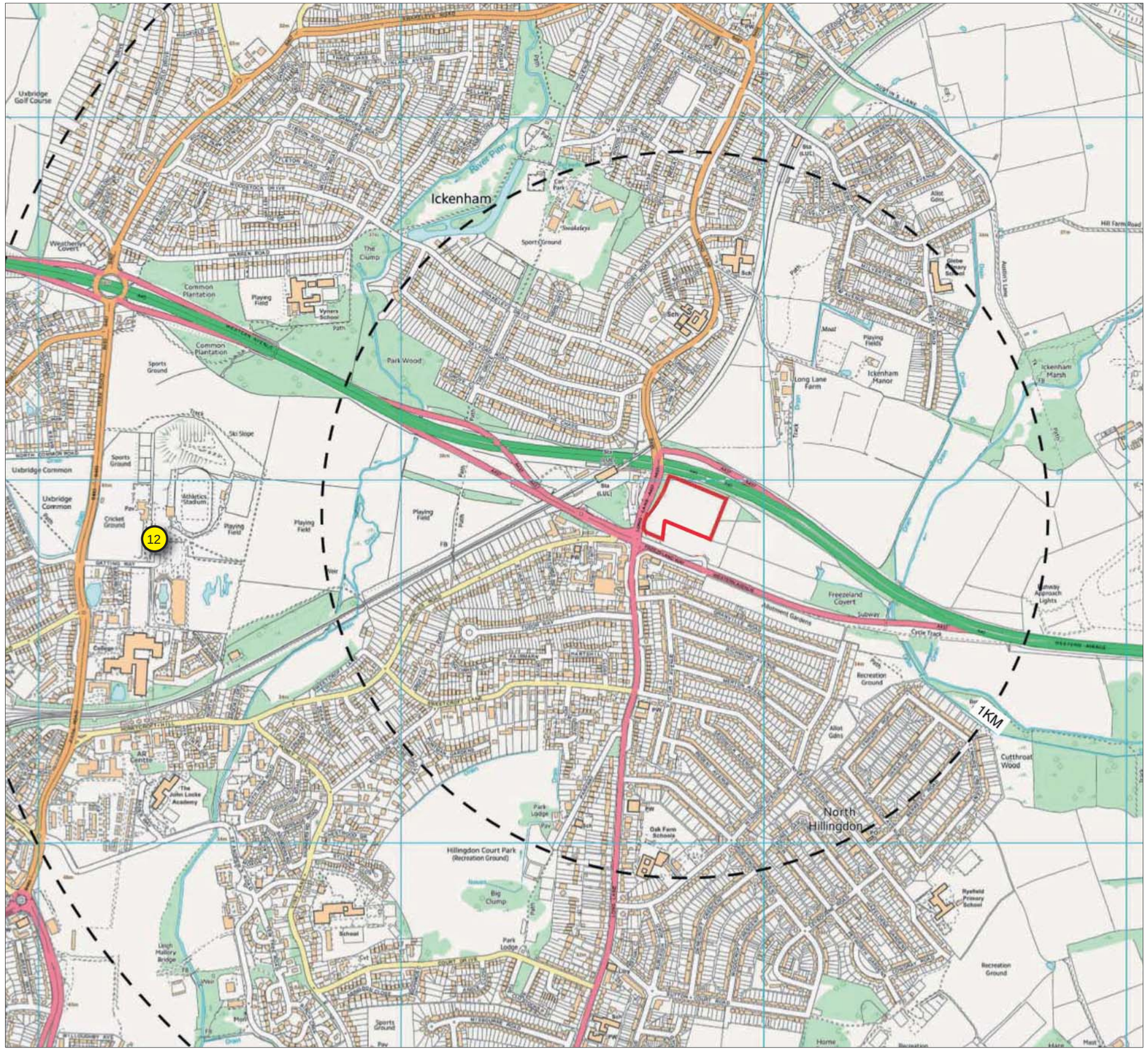
20.1.1. Extended panorama

20.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

21.0Viewpoint 12

Location Description:	Hillingdon Athletics Stadium
National Grid Reference:	506348.9160, 184860.3380
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	54.29 AOD
Horizontal Field of View:	72 °
Date:	03.12.19
Time:	12.39

Tripod Location



21.1. Viewpoint 12

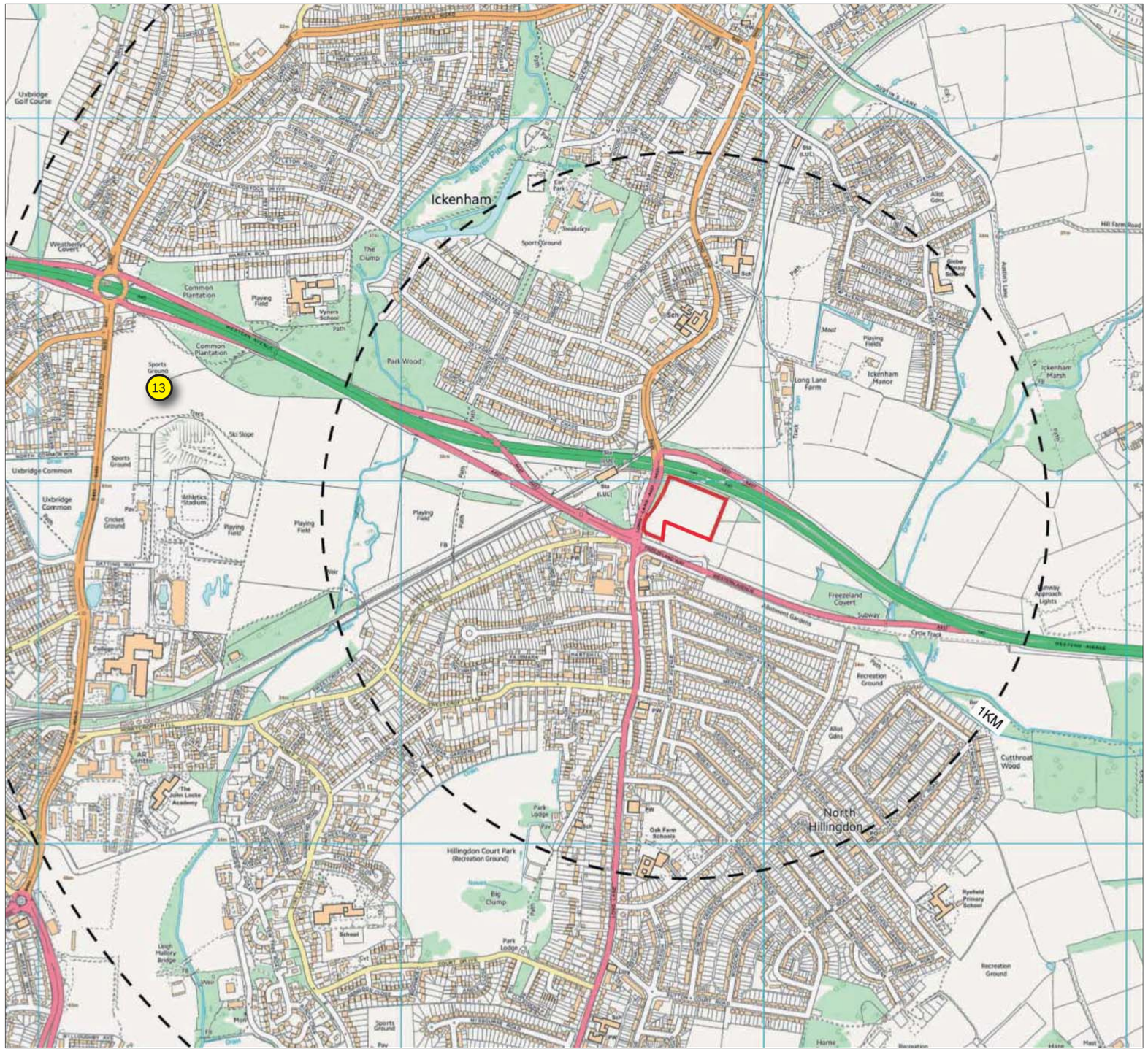
21.1.1. Extended panorama

21.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

22.0Viewpoint 13

Location Description:	Hillingdon Sports Ground / PF ref: U54
National Grid Reference:	506325.2430, 185231.2610
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	60.25 AOD
Horizontal Field of View:	72 °
Date:	09.05.17
Time:	12.19

Tripod Location



22.1. Viewpoint 13

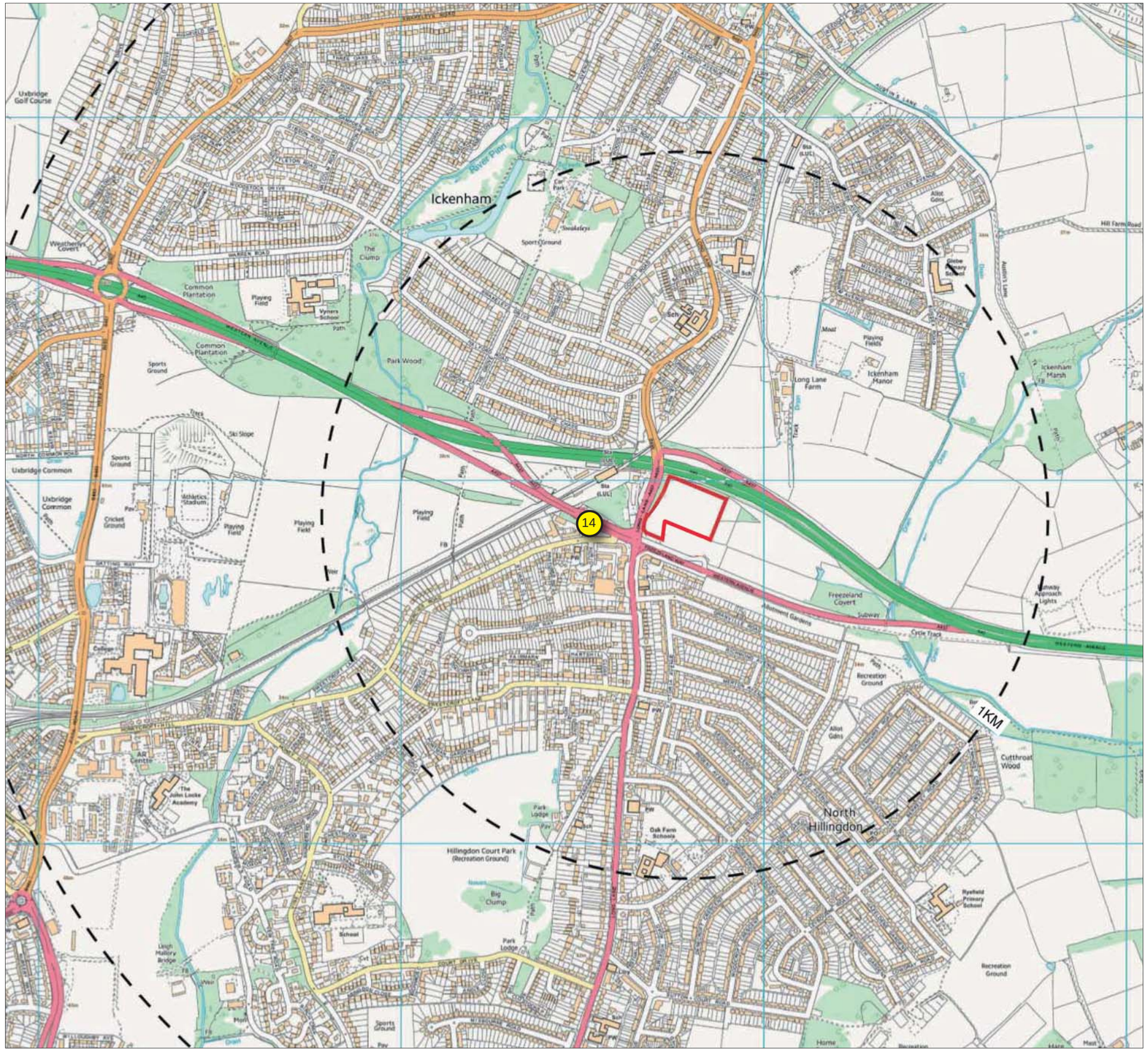
22.1.1. Extended panorama

22.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

25.0Viewpoint 14

Location Description:	Western Avenue A437 Slip Road
National Grid Reference:	507529.7630, 184869.4840
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	41.02 AOD
Horizontal Field of View:	72 °
Date:	26.11.19
Time:	11.10

Tripod Location



25.1. Viewpoint 14

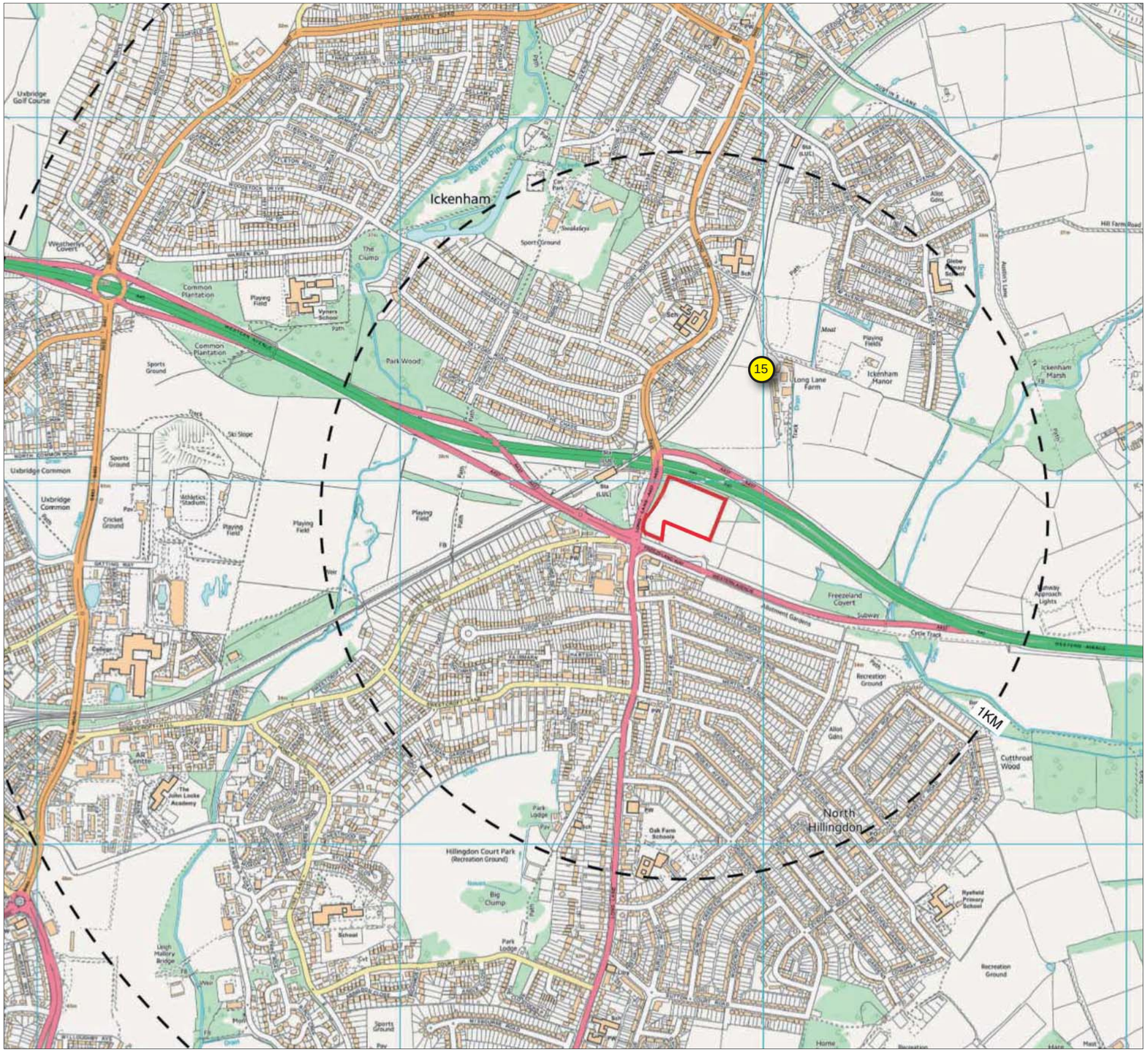
25.1.1. Extended panorama

25.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

23.0Viewpoint 15

Location Description:	Field to the south west of Ickenham Manor
National Grid Reference:	507985.1510, 185304.9100
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	36.86 AOD
Horizontal Field of View:	72 °
Date:	26.11.19
Time:	09.02

Tripod Location



23.1. Viewpoint 15

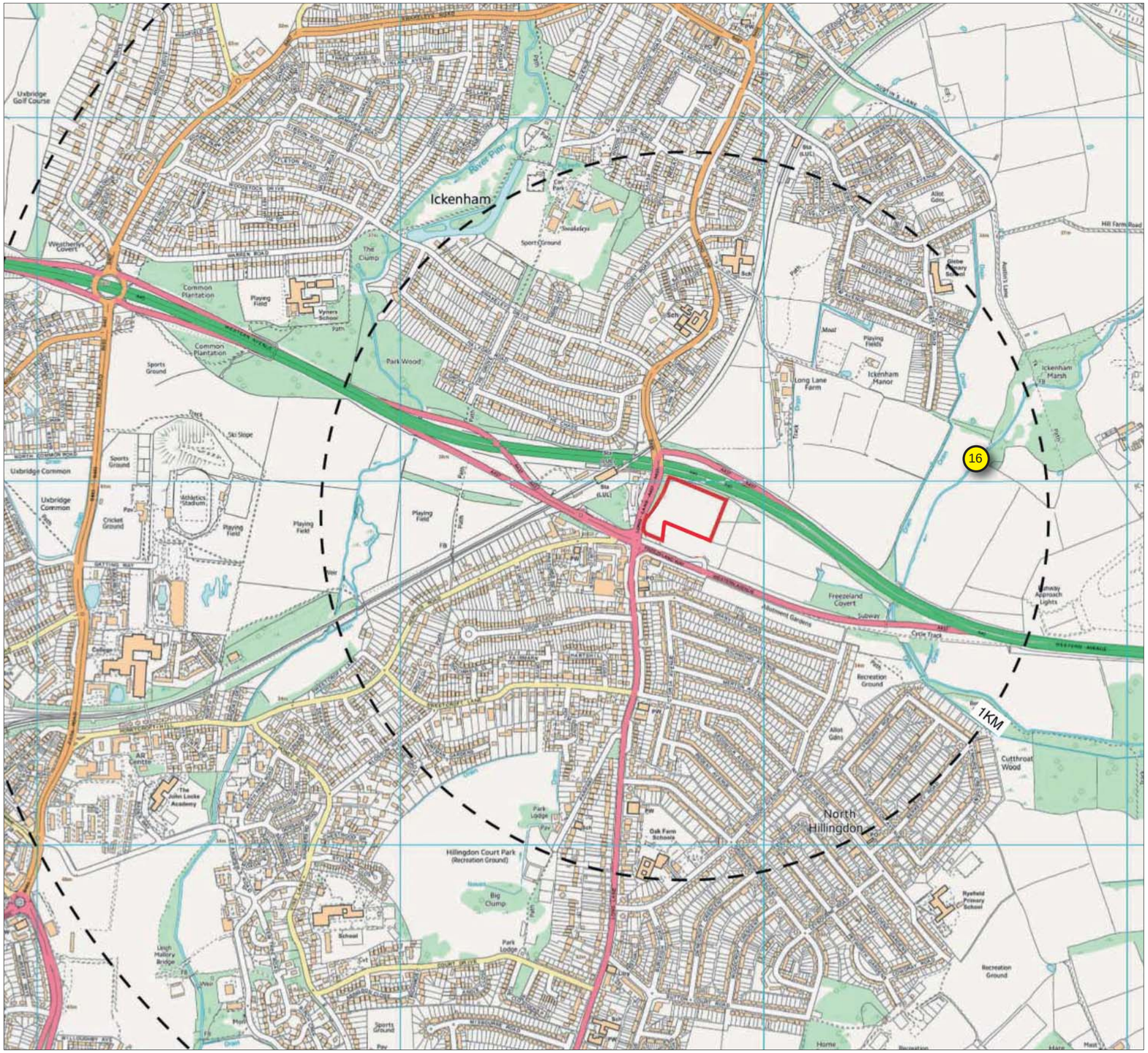
23.1.1. Extended panorama

23.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**

24.0Viewpoint 16

Location Description:	Hillingdon Trail, south of Ickenham Marsh
National Grid Reference:	508571.9040, 185060.6430
Camera:	SLR Canon EOS 5D MKII
Lens:	Fixed 50mm
Height of Camera Lens:	35.34 AOD
Horizontal Field of View:	72 °
Date:	26.11.19
Time:	09.31

Tripod Location



24.1. Viewpoint 16

24.1.1. Extended panorama

24.1.2. Wireline of proposed units at a viewing distance, this is the distance from eye to paper to gain a true representation of the image. **VD at 30cm**