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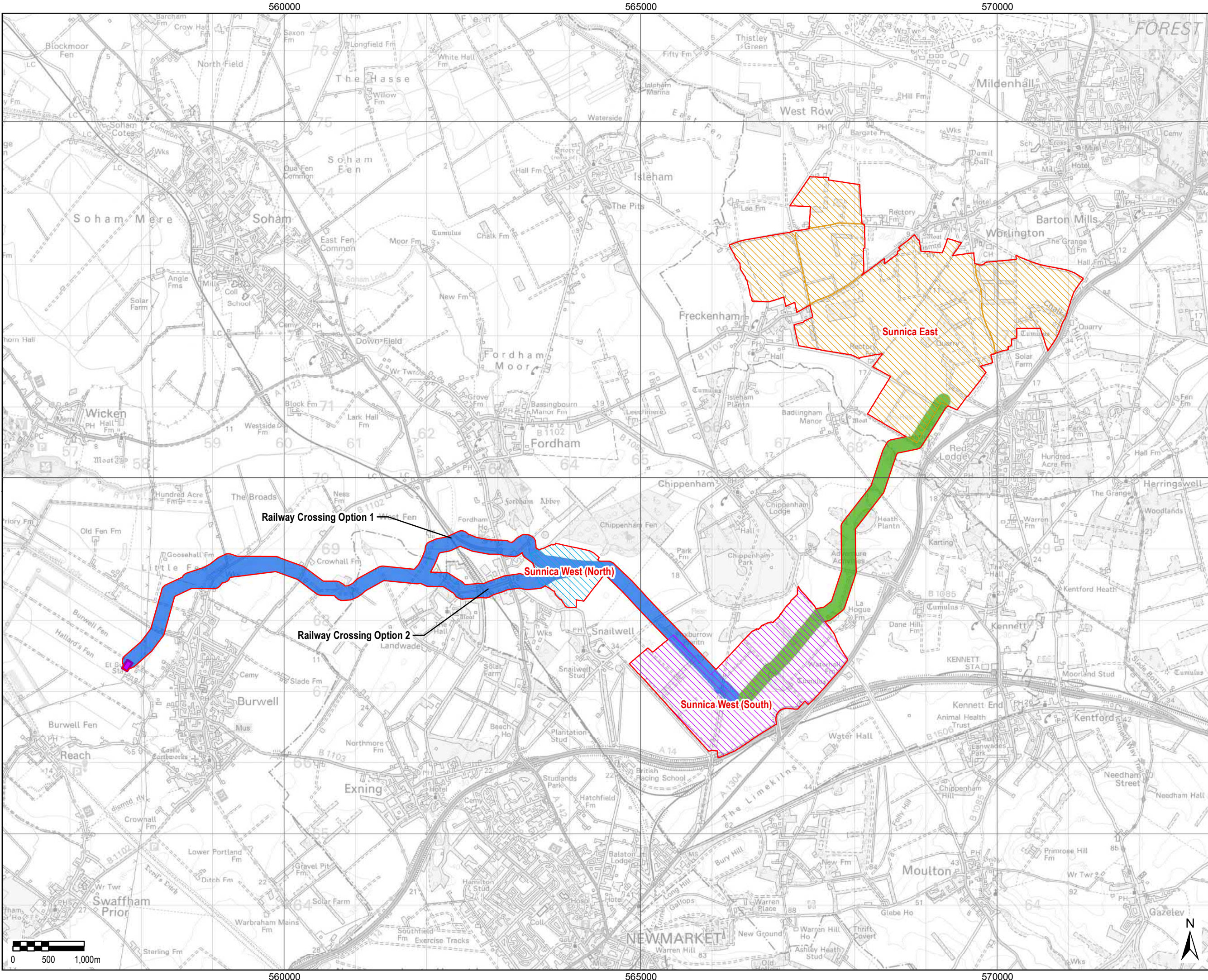
Figure 9-1: Surface Water Bodies and their Attributes

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LEGEND



- Scheme Boundary for the purposes of scoping
- Maximum area for Sunnica East Site
- Maximum area for Sunnica West Site (North)
- Maximum area for Sunnica West Site (South)

Associated Development

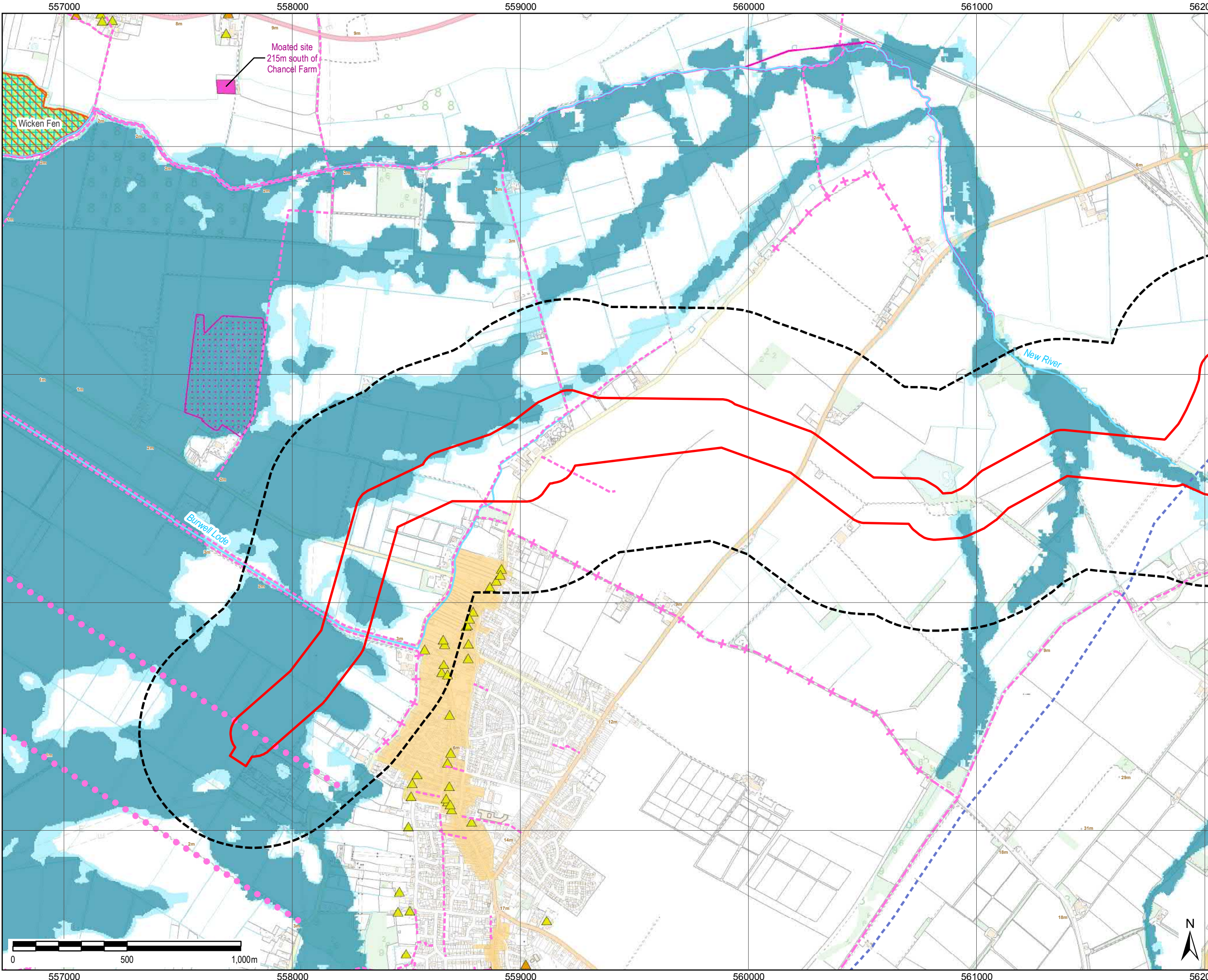
- Maximum area for Burwell National Grid Substation Extension
- Maximum corridor for Grid Connection Route A
- Maximum corridor for Grid Connection Route B

NOTE:
Public highways run through the Sunnica East Site, which are not part of the site boundary. These have been digitised based on the 1:1250 scale OS Mastermap.

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Client	SUNNICA LTD		
Project Title			
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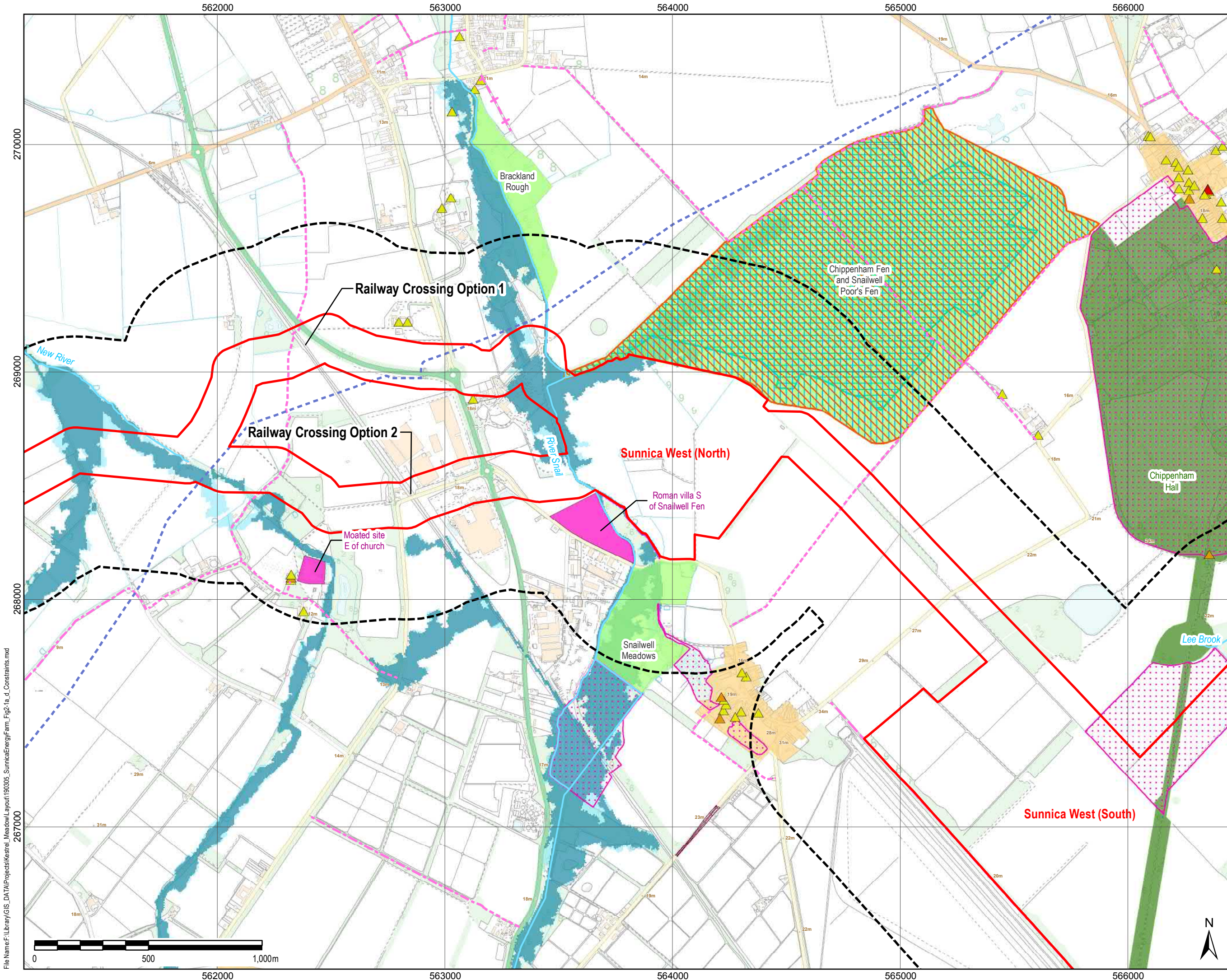
- Scheme Boundary for the purposes of scoping
- 500m Scheme Buffer
- Public Rights of Way**
 - Footpath
 - Byway Open to All Traffic
 - Other route with public access
- High Pressure Gas Main
- River
- Flood Zone 2
- Flood Zone 3
- Ramsar
- Site of Special Scientific Interest
- Special Areas for Conservation
- National Nature Reserve
- County Wildlife Site
- Scheduled Monument
- Conservation Area
- Listed Building - Grade**
 - II*
 - II

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LEGEND

- Scheme Boundary for the purposes of scoping
- 500m Scheme Buffer
- Public Rights of Way**
 - Footpath
 - Bridleway
 - Byway Open to All Traffic
 - High Pressure Gas Main
 - River
 - Flood Zone 2
 - Flood Zone 3
 - Ramsar
 - Site of Special Scientific Interest
 - Special Areas for Conservation
 - National Nature Reserve
 - County Wildlife Site
 - Protected Road Verge
 - Parks and Gardens
 - Scheduled Monument
 - Conservation Area
- Listed Building - Grade**
 - I
 - II*
 - II

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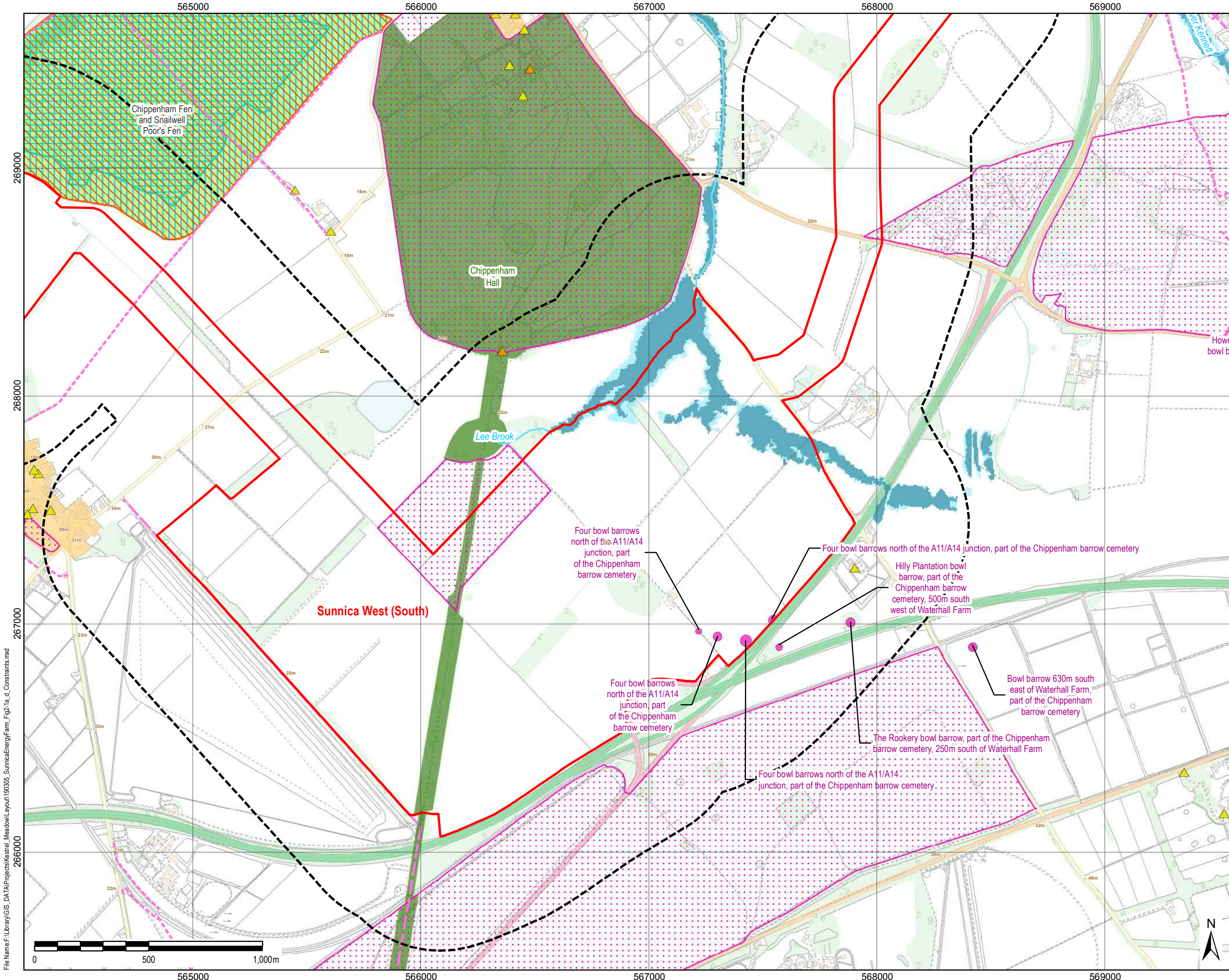
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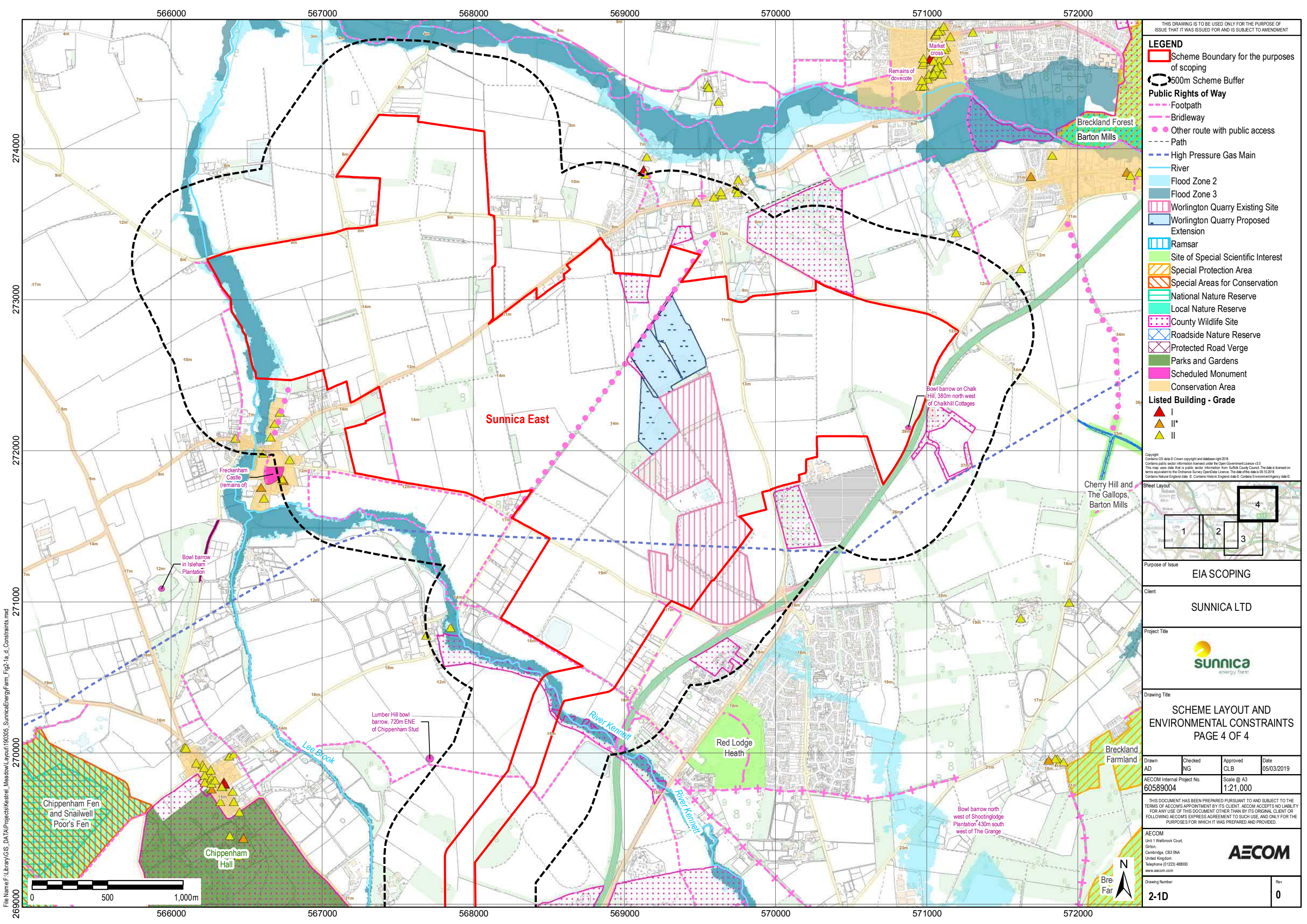
LEGEND

- Scheme Boundary for the purposes of scoping
- 500m Scheme Buffer
- Public Rights of Way**
 - Footpath
 - Bridleway
- River
- Flood Zone 2
- Flood Zone 3
- Ramsar
- Site of Special Scientific Interest
- Special Areas for Conservation
- National Nature Reserve
- County Wildlife Site
- Parks and Gardens
- Scheduled Monument
- Conservation Area
- Listed Building - Grade**
 - II*
 - II

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LEGEND

- Scheme Boundary for the purposes of scoping
- 500m Scheme Buffer
- Public Rights of Way
 - Footpath
 - Bridleway
 - Other route with public access
 - Path
- High Pressure Gas Main
- River
- Flood Zone 2
- Flood Zone 3
- Worlington Quarry Existing Site
- Worlington Quarry Proposed Extension
- Ramsar
- Site of Special Scientific Interest
- Special Protection Area
- Special Areas for Conservation
- National Nature Reserve
- Local Nature Reserve
- County Wildlife Site
- Roadside Nature Reserve
- Protected Road Verge
- Parks and Gardens
- Scheduled Monument
- Conservation Area

Listed Building - Grade

- I
- II*
- II

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SCHEME LAYOUT AND ENVIRONMENTAL CONSTRAINTS

PAGE 4 OF 4

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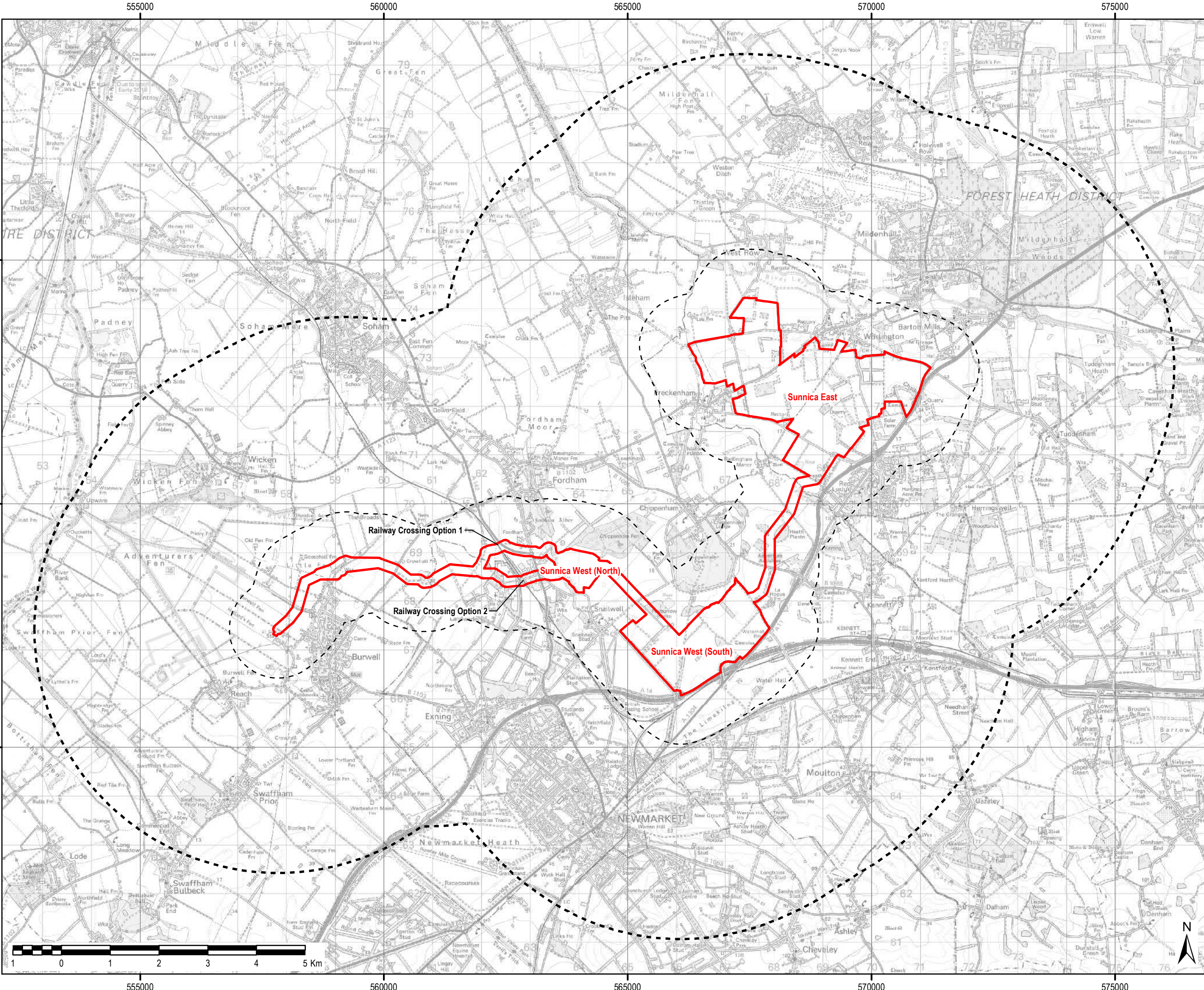
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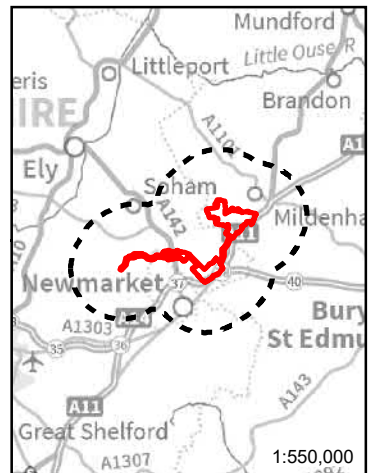
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- 5km study area
- Scheme Boundary for the purposes of scoping



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Drawing Title
CULTURAL HERITAGE STUDY AREA

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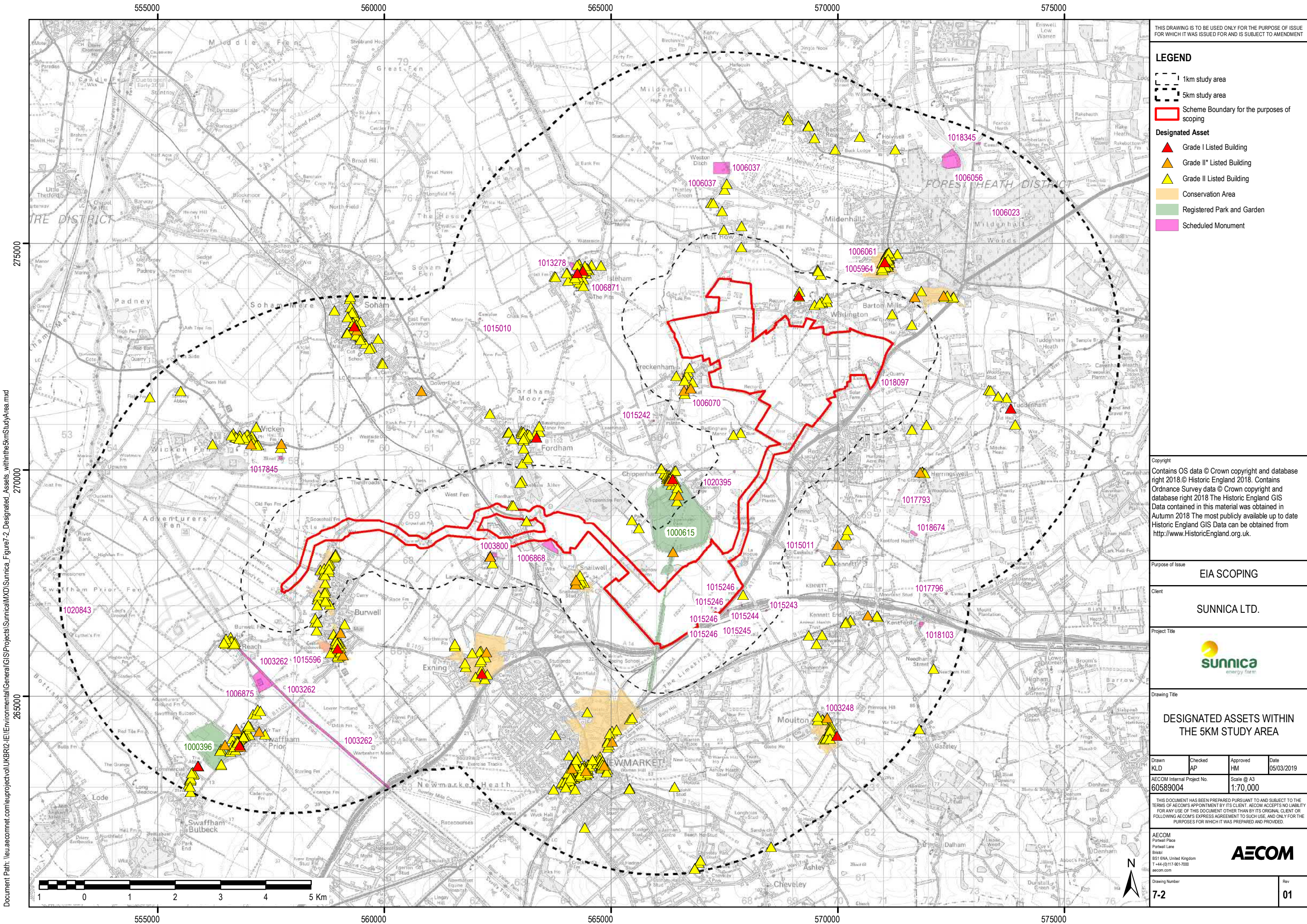
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LEGEND

- 1km study area
- 5km study area
- Scheme Boundary for the purposes of scoping
- Designated Asset
 - Grade I Listed Building
 - Grade II* Listed Building
 - Grade II Listed Building
 - Conservation Area
 - Registered Park and Garden
 - Scheduled Monument

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DESIGNATED ASSETS WITHIN THE 5KM STUDY AREA

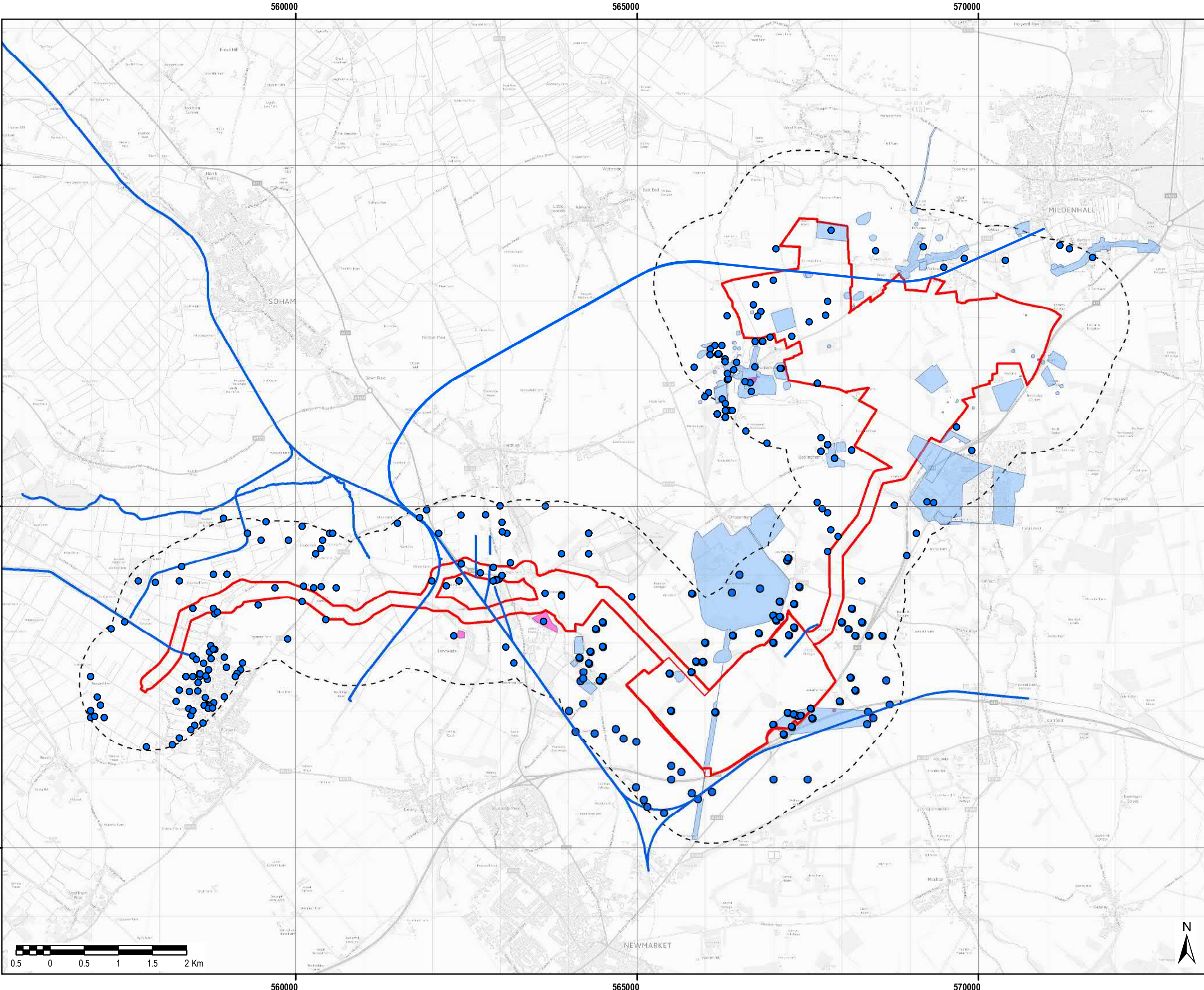
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LEGEND

- 1km study area
- Scheme Boundary for the purposes of scoping
- Archaeological Asset
 - HER Monument - Point
 - HER Monument - Linear
 - HER Monument - Area
 - Scheduled Monument

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ARCHAEOLOGICAL ASSETS
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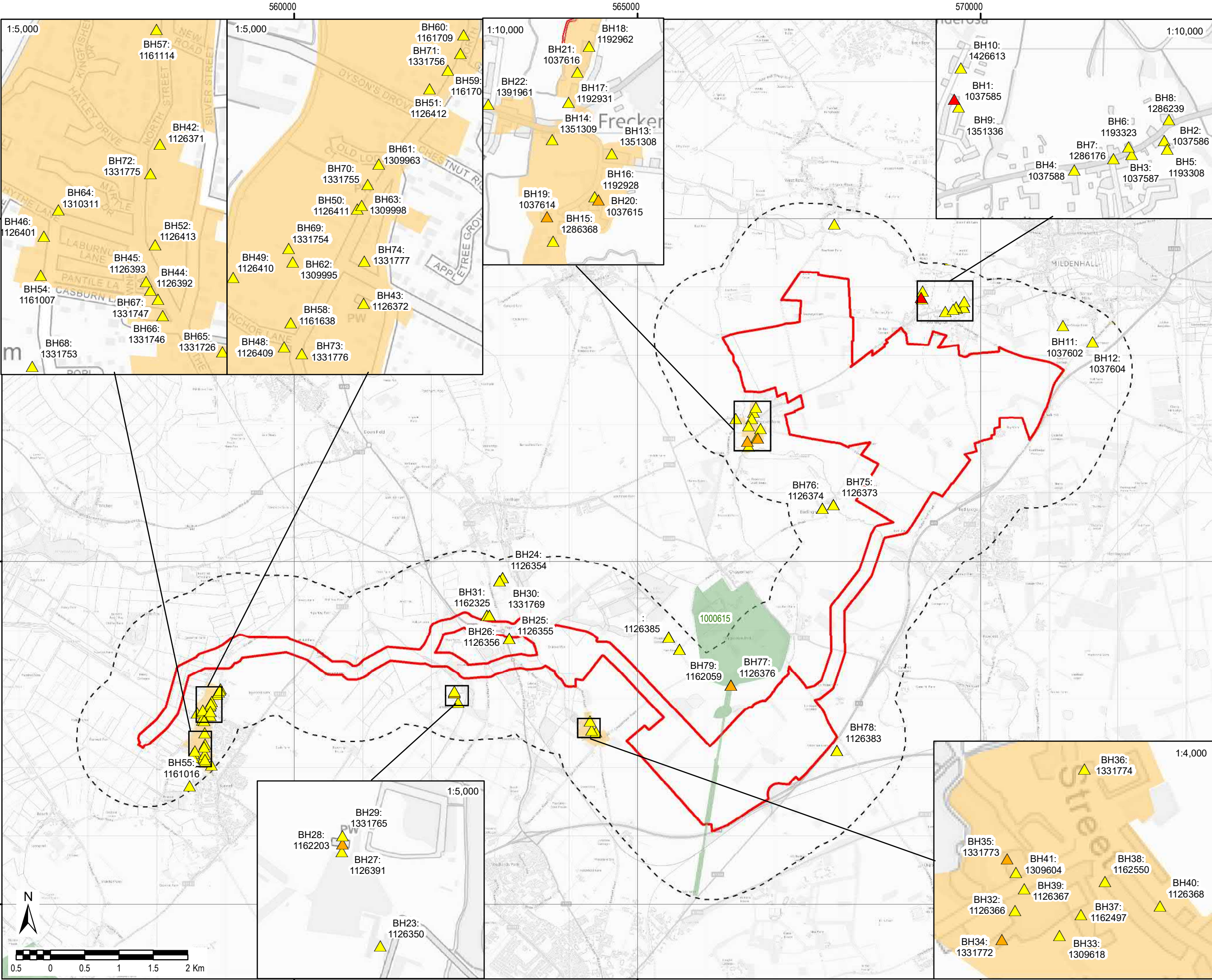
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LEGEND

- 1km study area
- Scheme Boundary for the purposes of scoping
- Built Heritage Asset**
 - Grade I Listed Building
 - Grade II* Listed Building
 - Grade II Listed Building
 - Conservation Area
 - Registered Park and Garden

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BUILT HERITAGE ASSETS WITHIN THE 1KM STUDY AREA

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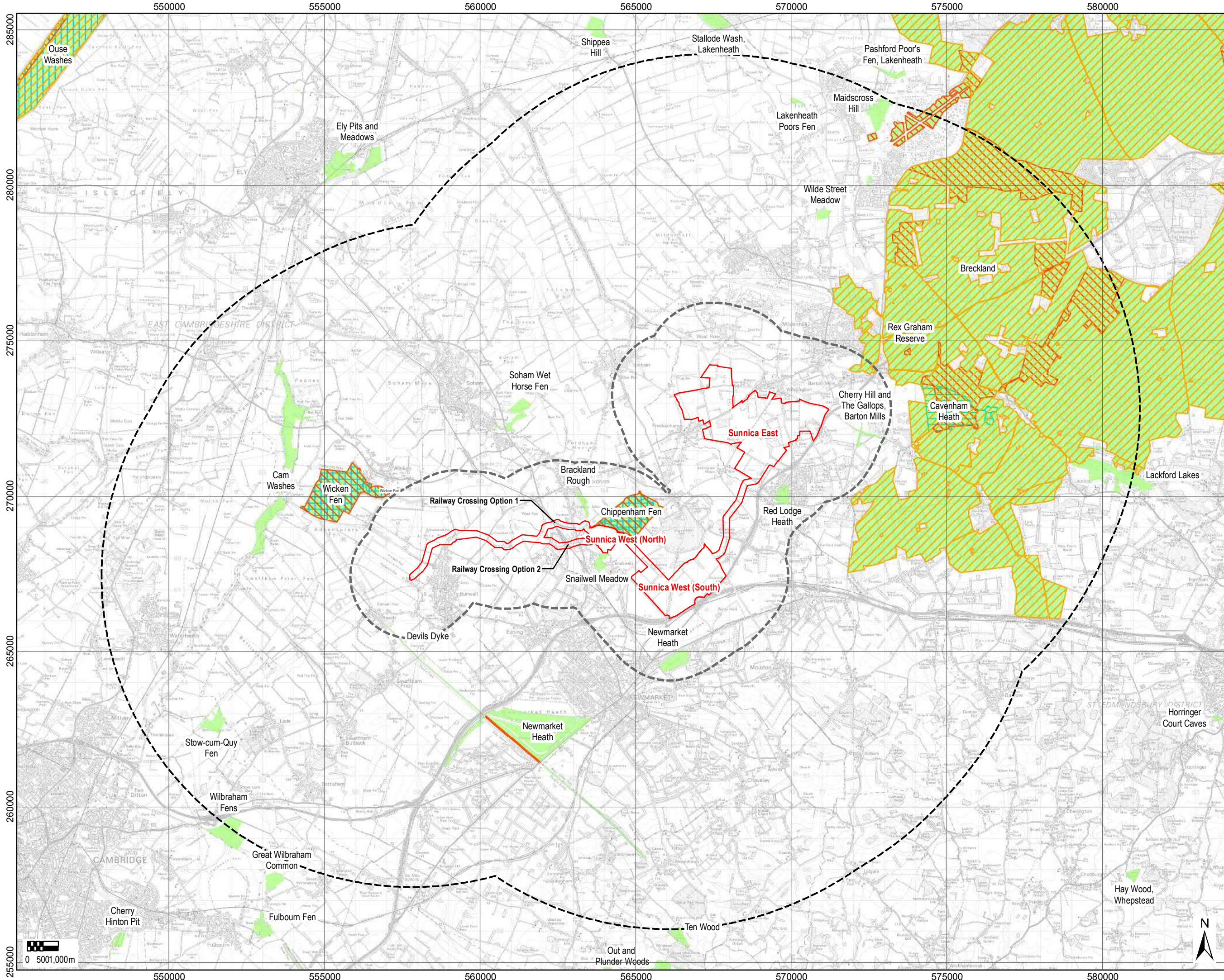
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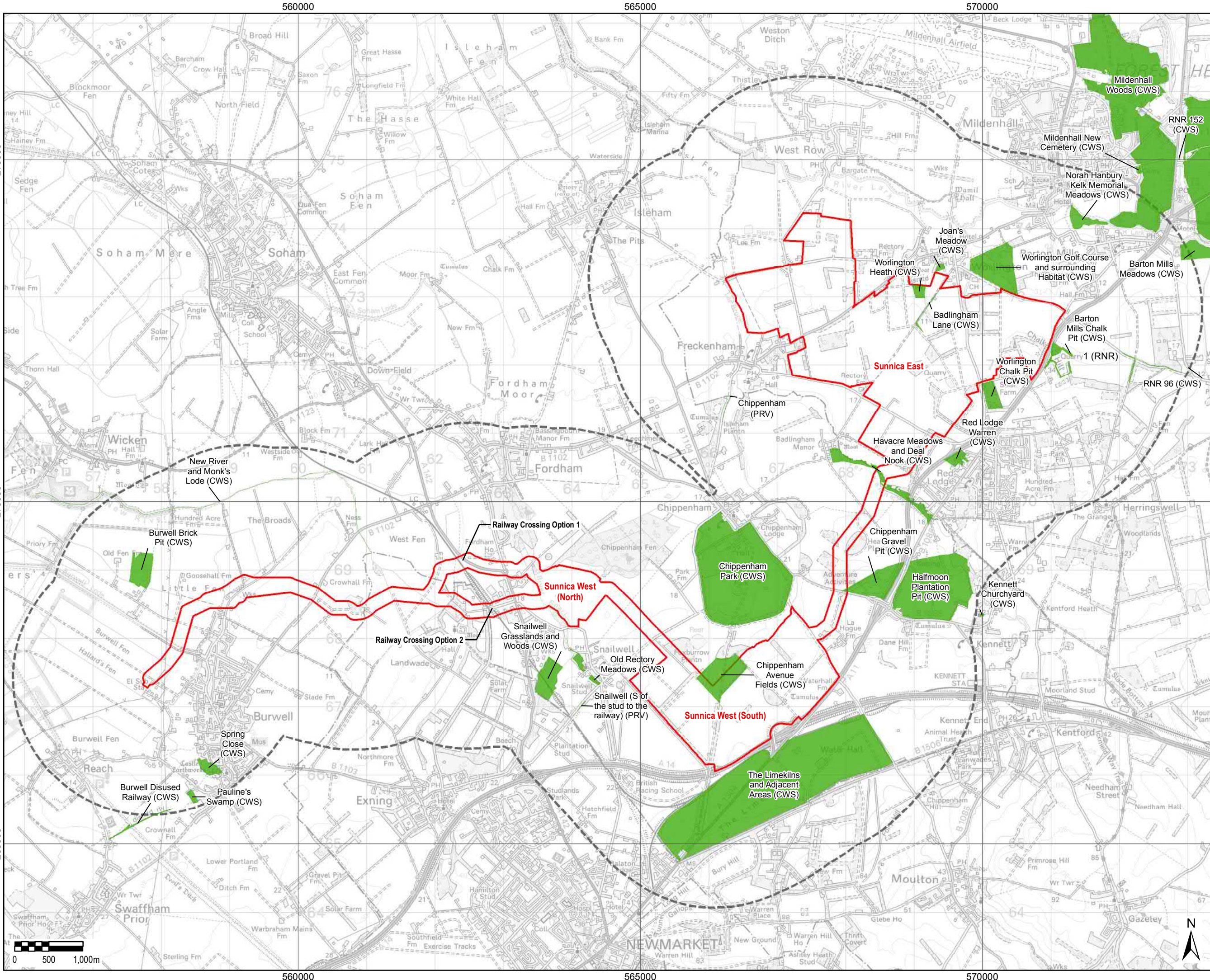
LEGEND

- Scheme Boundary for the purposes of scoping
- 2km Scheme Buffer
- 10km Scheme Buffer
- Statutory Nature Conservation Site**
 - Ramsar
 - Special Protection Area
 - Special Area of Conservation
 - Site of Special Scientific Interest
 - National Nature Reserve

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Drawing Title	STATUTORY NATURE CONSERVATION SITES		
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- LEGEND**
- Scheme Boundary for the purposes of scoping
 - 2km Scheme Buffer
 - County Wildlife Site (CWS)
 - Protected Road Verge (PRV)
 - Roadside Nature Reserve (RNR)

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NON-STATUTORY NATURE CONSERVATION SITES

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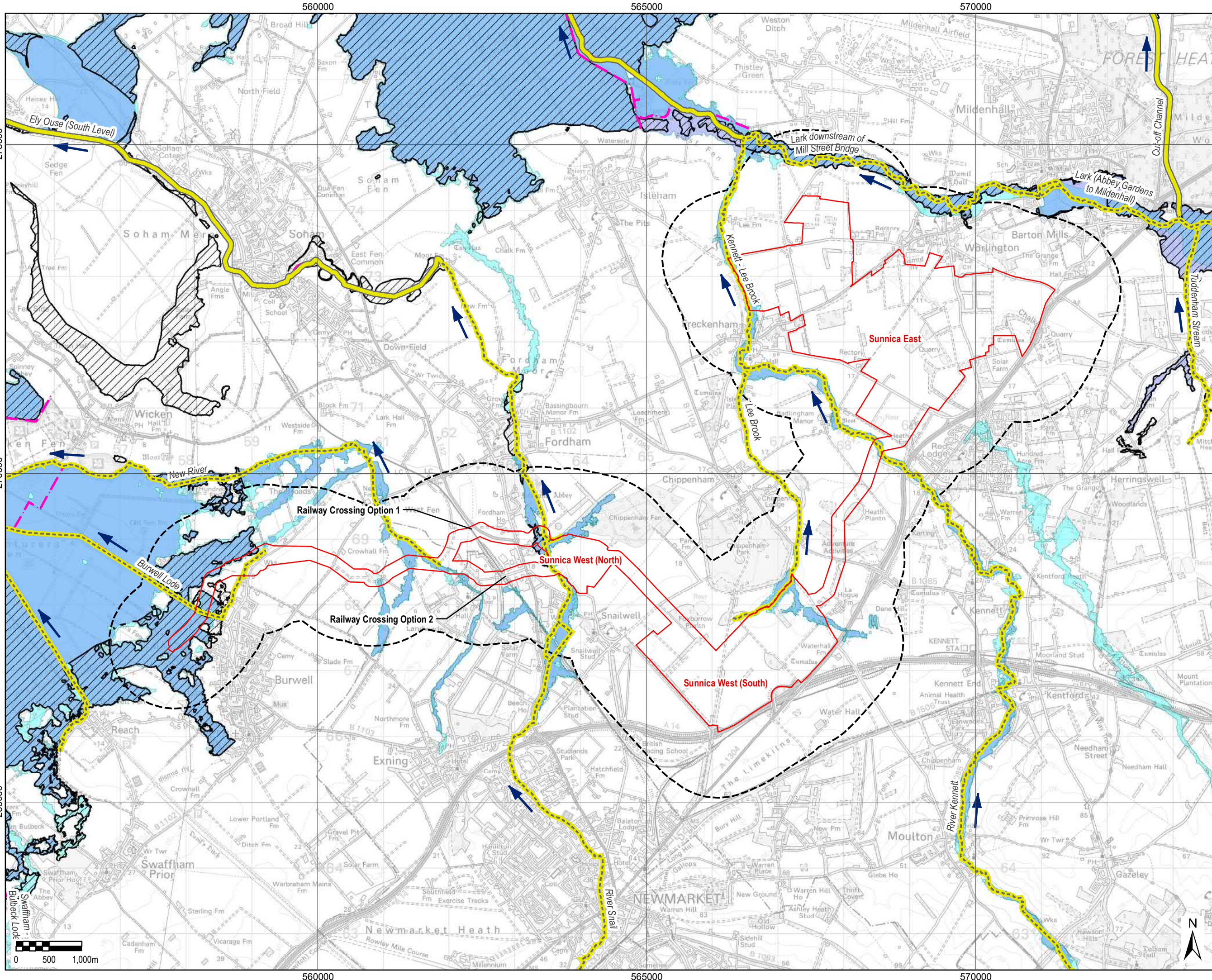
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- LEGEND**
- Scheme Boundary for the purposes of scoping
 - 1km Scheme Buffer
 - Flood Defences
 - Flood Zone 2
 - Flood Zone 3
 - Areas Benefiting from Flood Defences
 - River Flow Direction
 - WFD Status and Hydromorphological Designation**
 - Moderate, Artificial
 - Moderate, Heavily Modified

NOTES:

- a. Ponds and small lakes are not shown at this scale
- b. Please see Figure 2-1 for nature conservation sites
- c. Entire study area is within a Surface Water Nitrate Vulnerable Zone
- d. No Surface Water Drinking Water Safeguard Zones in the study area
- e. Study area is within a Surface Water Drinking Water Protected Area

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SURFACE WATER BODIES AND THEIR ATTRIBUTES

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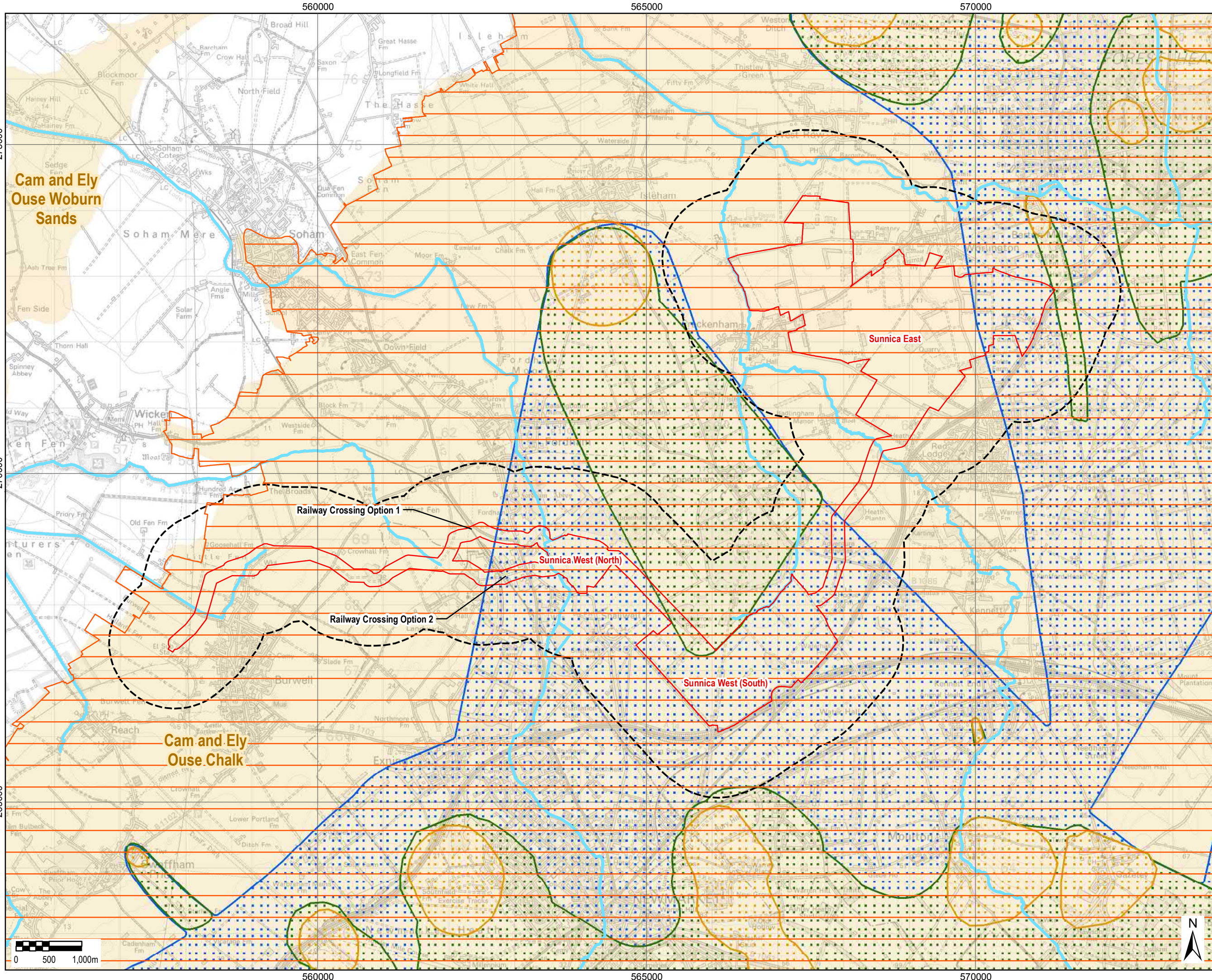
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- LEGEND**
- Scheme Boundary for the purposes of scoping
 - 1km Scheme Buffer
 - River
 - Groundwater Nitrate Vulnerable Zone
 - Groundwater WFD Body**
 - Poor Status
 - Source Protection Zones**
 - Zone I - Inner Protection Zone
 - Zone II - Outer Protection Zone
 - Zone III - Total Catchment

NOTES:

- a. Ponds and small lakes are not shown at this scale
- b. Please see Figure 2-1 for nature conservation sites
- c. No Groudwater Water Drinking Water Safeguard Zones in the study area

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GROUNDWATER FEATURES

Drawn AH	Checked AD	Approved CLB	Date 05/03/2019
AECOM Internal Project No. 60589004		Scale @ A3 1:52,000	

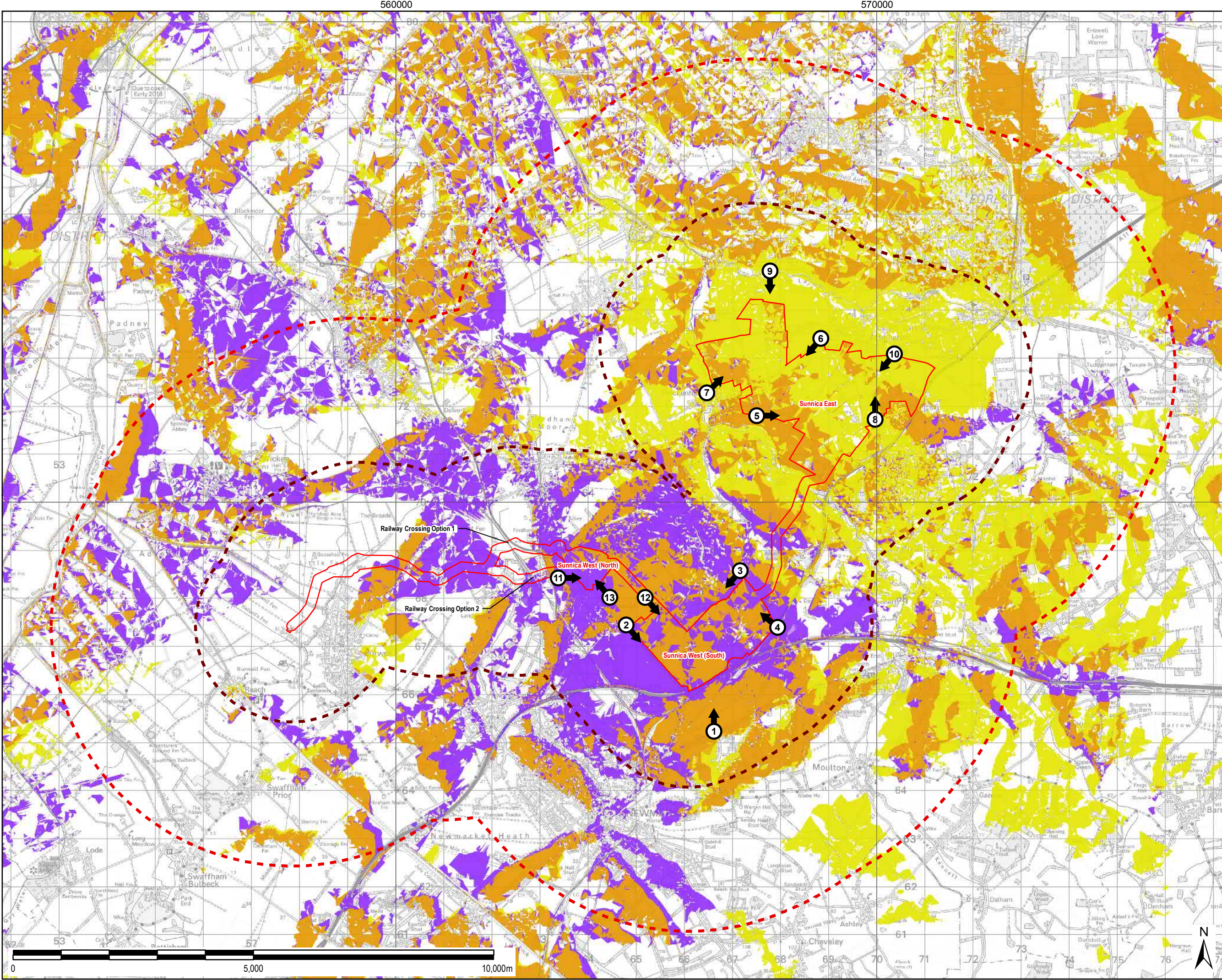
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File Name: F:\Library\GIS DATA\Projects\Kestrel_Meadow\Layout\10305_SunnicaEnergyFarm_Fig10-1_ZTV_BareGround.mxd



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LEGEND

- Scheme Boundary for the purposes of scoping
- 2km Study Area
- 5km Study Area
- Viewpoint

Zone of Theoretical Visibility - Bare Ground

- Sunnica West Site Visible Only
- Sunnica East Site Visible Only
- Both Sites Visible

NOTES
Generated using Ordnance Surveys Terrain 5 Dataset which is based on 5m resolution Digital Terrain Model (DTM), incorporating the proposed Solar PV panels modelled across the site to a maximum anticipated height of 5.5m, and the proposed substations, modelled to a maximum anticipated height of 10m.
Proposed scheme is derived from the proposed Red Line Boundary (RLB) areas dated 06/02/2019 with reference points included every 20m on a grid across the full extent of the RLB site. The ZTVs do not include associated buildings which are not known at this stage.
ZTV calculated using ArcGIS 10.5.1 Viewshed tool with observer eye height 2m above ground.

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Purpose of Issue
EIA SCOPING

Client
SUNNICA LTD

Project Title

Drawing Title
ZONE OF THEORETICAL VISIBILITY - BARE GROUND

Drawn
AD

Checked
AJ

Approved
CLB

Date
05/03/2019

AECOM Internal Project No.
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Scale @ A3
1:72,000

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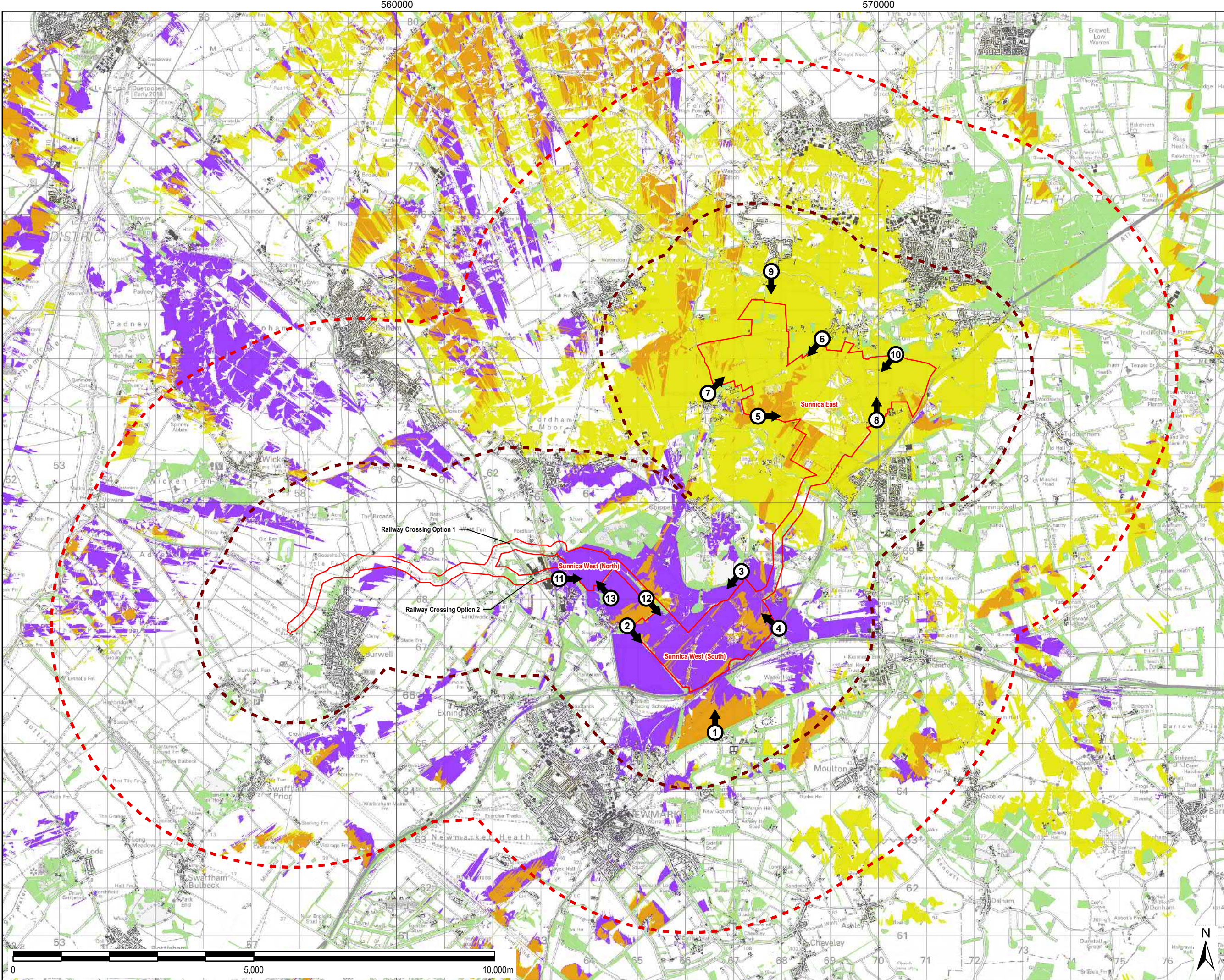
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LEGEND

- Scheme Boundary for the purposes of scoping
- 12km Study Area
- 5km Study Area
- Viewpoint

Screened Layers

- Building
- Woodland

Zone of Theoretical Visibility - Screened with Buildings and Woodland

- Sunnica West Site Visible Only
- Sunnica East Site Visible Only
- Both Sites Visible

NOTES

Generated using Ordnance Surveys Terrain 5 Dataset which is based on 5m resolution Digital Terrain Model (DTM), incorporating the proposed Solar PV panels modelled across the site to a maximum anticipated height of 3.5m, and the proposed substations, modelled to a maximum anticipated height of 10m. Proposed scheme is derived from the proposed Red Line Boundary (RLB) areas dated 06/02/2019 with reference points included every 20m on a grid across the full extent of the RLB site. The ZTVS do not include associated buildings which are not known at this stage. ZTV calculated using ArcGIS 10.5.1 Viewshed tool with observer eye height 2m above ground. Visual barriers on the Screened ZTV where defined within the immediate site context up to 5km from the RLB. Woodland areas were derived from Forestry Commission National Forestry Inventory (NFI), modelled at 10m, and the National Tree Map, using the maximum tree height value, and buildings were derived from OS MasterMap using the accurate OS Building Height Attribute (BHA) data. For buildings outside the BHA coverage, heights were modelled at 8m, and the dataset extracted from OS Open Local vector based building layers.

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Sheet Layout

Purpose of Issue

EIA SCOPING

Client

SUNNICA LTD

Project Title

Drawing Title

ZONE OF THEORETICAL VISIBILITY - SCREENED

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