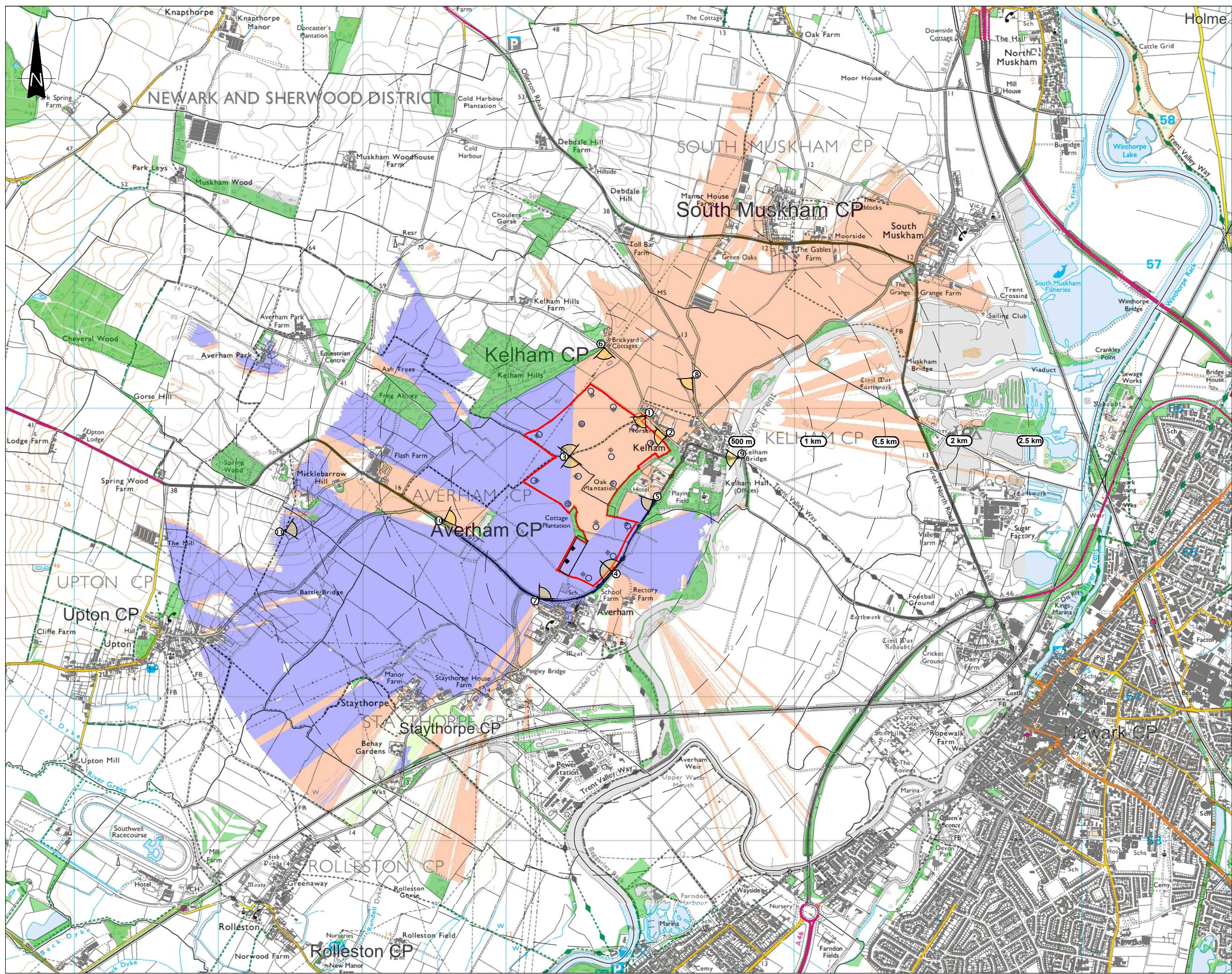




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KEY

1. THIS DRAWING IS BASED UPON A COMPUTER GENERATED ZONE OF THEORETICAL VISIBILITY (ZTV) WHICH ILLUSTRATES AREAS FROM WHERE IT MAY BE THEORETICALLY POSSIBLE TO VIEW ALL OR PART OF THE PROPOSED DEVELOPMENT. THE ZTV IS GENERATED USING REPRESENTATIVE HEIGHT POINTS (2m AGL FOR THE SOLAR ARRAYS AT REGULAR INTERVALS WITHIN THE DEPLOYMENT AND 2 ADDITIONAL POINTS @4m AGL FOR THE BESS). THE (SCREENING) ZTV INCORPORATES THE SCREENING EFFECTS OF BUILDINGS (C.8m HIGH BARRIER) AND WOODLAND COVER (C.12m HIGH BARRIER) AS MAPPED ON ORDNANCE SURVEY VECTOR MAP DISTRICT DATA, BUT OMITTS SMALLER VEGETATION (EG HEDGEROWS) AND LOCALISED LANDFORM VARIATIONS. AS A RESULT THERE MAY BE RECEPTORS WITHIN THE STUDY AREA WHICH ALTHOUGH SHOWN AS FALLING WITHIN THE ZTV, ARE SCREENED OR FILTERED WHICH PRECLUDES VIEWING OPPORTUNITIES.

2. THE ZTVS ARE CALCULATED USING WINDFARM RESOFT SOFTWARE THROUGH THE COMBINATION OF A DIGITAL TERRAIN MODEL (DTM) OF THE LANDSCAPE, DERIVED FROM THE ORDNANCE SURVEY 'TERRAIN 5' 5m RESOLUTION DTM DATA COMBINED WITH THE REPRESENTATIVE ILLUSTRATIVE HEIGHT POINTS FOR THE SOLAR ARRAYS. IN CALCULATING INTER VISIBILITY, THE SOFTWARE INCORPORATES EARTH CURVATURE AND THE EFFECTS OF REFRACTION THROUGH THE ATMOSPHERE. THE RESULTING ZTV IS OVERLAID ON OS MAPPING AT AN APPROPRIATE SCALE. 1.6M VIEWING HEIGHT.

KEY

- SITE BOUNDARY
- STUDY AREA (500m bands / 2.5km)
- AREAS WHERE SOLAR ARRAYS THEORETICALLY VISIBLE
- AREAS WHERE ONLY BESS THEORETICALLY VISIBLE
- AREAS WHERE BOTH SOLAR AND BESS THEORETICALLY VISIBLE
- ZTV HEIGHT SURVEY REFERENCE POINT (SOLAR)
- ZTV HEIGHT SURVEY REFERENCE POINT (BESS)
- PROPOSED VIEWPOINT
- WOODLAND
- BUILDINGS

REV	DESCRIPTION	DATE	BY

CLIENT

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JOB TITLE

KELHAM SOLAR FARM AND BESS

DRAWING TITLE

SOLAR AND BESS ZONE OF THEORETICAL VISIBILITY - INCLUDING VISUAL BARRIERS

DRAWN	DATE	APPROVED	DATE
A.S.	14/6/2024	J.C	14/6/2024

SCALE	SHEET	DRAWING NUMBER	REVISION
1:25,000	A3L	HC1002/02/09	0