

High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

Volume 2: Community Area map book

LA04: Coleorton to Kegworth

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High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared for High Speed Two (HS2) Limited:



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| Map series name | Map series description |
|---|--|
| CT-05 – Construction Phase | These plans show the land potentially required during construction, the construction features, access requirements and infrastructure associated with construction of the Proposed Scheme. The plans also show the construction phase arrangements for public access using public rights of way. The base mapping shown on the plans is reflective of 2018 Ordnance Survey (OS) data. |
| CT-06 – Proposed Scheme | These maps show permanent features, infrastructure, restored land, and areas for landscaping, screening and ecological mitigation associated with the Proposed Scheme. The base mapping shown on the plans is reflective of 2018 Ordnance Survey (OS) data. |
| CT-10 – Environmental Baseline | The Environmental Baseline maps display a range of environmental data layers. |
| LV-00 – Route Wide Landscape Character Areas and National Character Areas | Route Wide Landscape Character Areas and National Character Areas. |
| LV-02 – Landscape Character Areas | Maps showing the Landscape Character Areas that have been considered for assessment and illustrating significant residual effects during construction and operation. |
| LV-03 – Construction Phase Significantly Affected Viewpoints | Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the construction phase (All significant and non-significant photomontage locations are shown). |
| LV-04 – Construction Phase Significantly Affected Viewpoints | Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the operational phase (All significant and non-significant photomontage locations are shown). |
| SV-01 – Operational Sound Contour Maps and Likely Significant Effects | SV-01 presents the predicted operational sound from the new railway. The sound levels from the new railway (expressed as LpAeq,T) are presented in typical noise mapping colours in 5dB steps. There is a panel at the top right of the figure; the left-hand section of this panel contains a key communicating the night-time and daytime sound levels represented by the various colours. The right-hand part of the same panel contains text explaining how the sound levels presented on the figure inform the assessment of direct noise impacts and likely significant effects. |
| WR-01 – Surface Water Baseline | This map series shows surface water features such as rivers, streams, ponds, canals and reservoirs, flood zones, and surface water abstractions as referred to in the working draft ES. |
| WR-02 – Groundwater Baseline | These maps show geology and hydrogeological features such as aquifers and groundwater abstractions that are referred to in the working draft ES. |

Mapping explanatory notes

Structure of the HS2 Phase 2b Working Draft Environmental Statement

This map book is part of the suite of documents that make up the working draft Environmental Statement (ES) for Phase 2b of the proposed High Speed Two (HS2) rail network Crewe to Manchester and West Midlands to Leeds.

The working draft ES comprises the following documents:

- Non-technical summary: This provides a summary in non-technical language of the following, identified at a stage in the ongoing design and environmental assessment: the Proposed Scheme and the reasonable alternatives studied; the likely significant beneficial and adverse effects of the Proposed Scheme; the means to avoid or reduce likely significant environmental effects; and an outline of the monitoring measures to manage the effects of construction and the effectiveness of mitigation post construction, as well as appropriate monitoring during operation.
- Glossary of terms and list of abbreviations. This contains terms and abbreviations, including units of measurement, used throughout the working draft ES
- Volume 1: Introduction and methodology. This provides: a description of HS2, the environmental impact assessment (EIA) process and the approach to consultation and engagement; details of the permanent features of the Proposed Scheme and general construction techniques, based on a stage in the ongoing design; a summary of the scope and methodology for the environmental topics; an outline of the general approach to mitigation; an outline of the approach to monitoring, including measures to manage the effects of construction, the effectiveness of mitigation post construction, as well as the approach to monitoring during the operational phase, based on a stage in the ongoing design; and a summary of the reasonable alternatives studied (including local alternatives studied prior to the Government's announcement of the preferred route in July 2017). Local alternatives studied post July 2017 are reported in the relevant Volume 2: Community area reports.
- Volume 2: Community area reports and map books. These cover the following community areas: western leg: MA01 Hough to Walley's Green; MA02 Wimboldsley to Lostock Gralam; MA03 Pickmere to Agden and Hulseheath; MA04 Broomedge to Glazebrook; MA05 Risley to Bamfurlong; MA06 Hulseheath to Manchester Airport; MA07 Davenport Green to Ardwick; MA08 Manchester Piccadilly Station; and eastern leg: LA01 Lea Marston to Tamworth; LA02 Birchmoor to Austrey; LA03 Appleby Parva to Ashby-de-la-Zouch; LA04 Coleorton to Kegworth; LA05 Ratcliffe-on-Soar to Long Eaton; LA06 Stapleford to Nuthall; LA07 Hucknall to Selston; LA08 Pinxton to Newton and Huthwaite; LA09 Stonebroom to Clay Cross; LA10 Tibshelf to Shuttlewood; LA11 Staveley to Aston; LA12 Ulley to Bramley; LA13 Ravenfield to Clayton; LA14 South Kirkby to Charlston Common; LA15 Warmfield to Swillington and Woodlesford; LA16 Garforth and Church Fenton; LA17 Stourton to Hunslet; and LA18 Leeds Station. The reports provide the following information for each area, as identified at a stage in the ongoing design and environmental assessment: an overview of the area; a description of the construction and operation of the Proposed Scheme within the area; a summary of the local alternatives considered since the Government's announcement of the preferred route in July 2017; a description of the environmental baseline; a description of the likely significant beneficial and adverse effects of the Proposed Scheme; the proposed means of avoiding, reducing or managing the likely significant adverse effects; and where possible, the proposals for monitoring, including measures during and post construction, and during the operational phase. The maps relevant to each community area are provided in a separate Volume 2: Community area map book. These maps include the location of the key environmental features (Map Series CT-10), key construction features (Map Series CT-05) and operation features (Map Series CT-06) of the Proposed Scheme. There are also specific maps showing proposed viewpoint and photomontage locations (Map Series LV-00, LV-02, LV-03, and LV-04, to be read in conjunction with Section 11, Landscape and visual of the Volume 2: Community area reports), operational sound contour maps (Map Series SV-01, to be read in conjunction with Section 13, Sound, noise and vibration of the Volume 2: Community area reports) and maps showing key surface water and groundwater features (Map Series WR-01 and WR-02, to be read in conjunction with Section 15, Water resources and flood risk of the Volume 2: Community area reports). In addition to the community areas detailed above, reports are provided for community areas within which electrification of a section of the MML is proposed: MML01 Danesmoor to Brierley Bridge and MML02 Unstone Green to Sheffield Station. Maps for these community areas are embedded in the reports, not this map book. These reports are provided at an earlier stage of the design and environmental assessment process, following the amendment of the route of the Proposed Scheme to include the electrification of a section of the MML between Clay Cross and Sheffield Midland Station. This would enable high speed trains to connect to Chesterfield and Sheffield as part of the Proposed Scheme. They include for each area: an overview of the area; a description of the proposed works within the area, based on a stage in the ongoing design; an outline of potential effects; and an overview of stakeholder engagement and consultation to be carried out as part of the EIA process. Mitigation measures have not been identified at this stage of the design and environmental assessment process in relation to the likely effects arising from construction and operation of the Proposed Scheme for the MML01 Danesmoor to Brierley Bridge and MML02 Unstone Green to Sheffield Station areas. Any required mitigation measures will be reported in the formal ES. In addition, any required environmental monitoring during operation of the Proposed Scheme will be reported in the formal ES.
- Volume 3: Route-wide effects. This describes the effects that are likely to occur at a geographical scale greater than the community areas described in the Volume 2: Community area reports, based on a stage in the ongoing design and environmental assessment.
- Volume 4: Off-route effects. This provides an overview of anticipated off-route works and surrounding environment (where locations are known). These works are at an early stage of design and will be reported in full in the formal ES.

Supporting documents: EIA Scope and Methodology Report: this outlines the scope and methodology adopted for the EIA. HS2 Ltd consulted on a draft of the EIA Scope and Methodology Report (SMR) between July and September 2017. This updated version takes into consideration comments received, where appropriate, in addition to changes required as a result of updates to legislation or industry best practice guidance. Alternatives report: this describes the evolution of the Proposed Scheme and the reasonable alternatives considered at this stage of the design, at the strategic, route-wide, route corridor and local levels. Draft Code of Construction Practice (CoCP): this sets out measures and standards to provide effective planning, management and control of potential impacts on individuals, communities and the environment during construction.

Copyright statements

Copyright statements are presented in the Data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

Ordnance Survey data

All maps produced as part of the working draft ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data.

As part of our licence conditions, all digital maps carry a watermark.

Chainage

Most of the maps presented as part of the working draft ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY, e.g. 192+000 or 239+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres, e.g. 192+000 refers to the point, 192,000m, or 192km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:20,000, 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales, and therefore, showing differing amounts of alignment on the map.

Map orientation

The majority of the maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the left hand side of the page, and Leeds or Manchester to the right.

The exception to this, are map series LV-00, LV-02, LV-03 and LV-04, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and Leeds or Manchester to the top.

Map books

In total there are 26 map books, which make up the working draft ES, found in volume 2. A list of the titles is provided below for reference.

| Name | Name |
|---|---|
| Volume 2: Map book – MA01: Hough to Walley's Green | Volume 2: Map book – LA06: Stapleford to Nuthall |
| Volume 2: Map book – MA02: Wimboldsley to Lostock Gralam | Volume 2: Map book – LA07: Hucknall to Selston |
| Volume 2: Map book – MA03: Pickmere to Agden and Hulseheath | Volume 2: Map book – LA08: Pinxton to Newton and Huthwaite |
| Volume 2: Map book – MA04: Broomedge to Glazebrook | Volume 2: Map book – LA09: Stonebroom to Clay Cross |
| Volume 2: Map book – MA05: Risley to Bamfurlong | Volume 2: Map book – LA10: Tibshelf to Shuttlewood |
| Volume 2: Map book – MA06: Hulseheath to Manchester Airport | Volume 2: Map book – LA11: Staveley to Aston |
| Volume 2: Map book – MA07: Davenport to Green Ardwick | Volume 2: Map book – LA12: Ulley to Bramley |
| Volume 2: Map book – MA08: Manchester Piccadilly Station | Volume 2: Map book – LA13: Ravenfield to Clayton |
| Volume 2: Map book – LA01: Lea Marston to Tamworth | Volume 2: Map book – LA14: South Kirkby to Sharlston Common |
| Volume 2: Map book – LA02: Birchmoor to Austrey | Volume 2: Map book – LA15: Warmfield to Swillington and Woodlesford |
| Volume 2: Map book – LA03: Appleby Parva to Ashby-de-la-Zouch | Volume 2: Map book – LA16: Garforth and Church Fenton |
| Volume 2: Map book – LA04: Coleorton to Kegworth | Volume 2: Map book – LA17: Stourton Hunslet |
| Volume 2: Map book – LA05: Ratcliffe-on-Soar to Long Eaton | Volume 2: Map book – LA18: Leeds Station |

HS2

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HS2

High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

Data dictionary and definitions

Data dictionary and definitions

| Legend features | Definition | Source | Copyright |
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| 5m contours | A contour line showing points of equal elevation (height) above a reference level, such as mean sea level and therefore gives indication of the topography, showing valleys and hills, and the steepness of slopes. Spaced at intervals of 5m. | High Speed Two (HS2) Ltd | |
| Airborne sound study area | This defines the area within which operational airborne sound impacts of the scheme have been quantitatively assessed. This area is defined as within 1km of surface sections of the route in rural areas and within 500m of surface sections of the route in urban areas. | High Speed Two (HS2) Ltd | |
| Ancient Woodland Inventory Sites (AWIS) | Ancient Woodland is land that has had continuous woodland cover since at least 1600AD. Natural England maintain an inventory of ancient woodlands. | Natural England | © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017 |
| Balancing pond | Part of a drainage system that is used to temporarily store, and thereby attenuate, the flow of surface water run-off. The proposed location and extent of balancing ponds for drainage attenuation and infiltration. Outer boundary represents the perimeter. | High Speed Two (HS2) Ltd | |
| Bedrock geology | Soils or rocks older than Quaternary deposits. The data that comprises the geological theme of 'Bedrock' as depicted on the 1:50000 published map DiGMapGB-50. The legend on the full geological legend page (WR-02 - Legend) comprises the LEX_RCS (a unique abbreviation to identify the rock), the rock name and its aquifer status. | British Geological Survey (BGS) | Reproduced with the permission of the British Geological Survey ©NERC. All rights Reserved |
| Chainage | The distance (measured in metres) along the centre line of the HS2 route from a defined start point at Euston station, London.Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 192+000 refers to the point, 192,000m, or 192km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scale chainage is shown at 1km intervals. Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map. | High Speed Two (HS2) Ltd | |
| Community area boundary | Defined areas along the proposed HS2 Phase 2b route (e.g. Wimboldsley to Lostock Gralam community area). They are used as a geographical basis for reporting local community and environmental impacts and effects in the working draft Environmental Statement. | High Speed Two (HS2) Ltd | © Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017. |
| Consented discharge to groundwater | A discharge to groundwater under permit regulations (the Environmental Permitting, England and Wales Regulations, 2010 (EPR)). | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Consented discharge to surface water | A discharge to surface water e.g. a river or lake under permit regulations (the Environmental Permitting, England and Wales Regulations, 2010 (EPR)). A permit is required for the discharge of treated effluent to surface water under the Environmental Permitting (England and Wales) Regulations, 2010 (EPR). | Environment Agency | Contains Environment Agency information © Environment Agency and database right |

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| Conservation areas | Areas considered worthy of preservation or enhancement because of their special architectural or historic interest. Conservation Areas have been captured and digitised from desktop based studies using publically available local authority information. Accuracy of the data is dependent upon that of the individual data source and areas are provided as indicative site boundaries only. | Ashfield District Council Broxtowe Borough Council Cheshire Historic Environment Record Chesterfield Borough Council Derbyshire County Council Doncaster Metropolitan Borough Council Erewash Borough Council Leeds City Council Leicestershire County Council Newcastle-Under-Lyme Borough Council North Warwickshire Borough Council North West Leicestershire District Council North Yorkshire County Council Nottingham City Council Nottinghamshire County Council Rotherham Metropolitan Borough Council Rushcliffe Borough Council Selby District Council St Helens Council Staffordshire County Council Warrington Borough Council Warrington Borough Council Wigan Council | © Ashfield District Council © Broxtowe Borough Council © Cheshire Historic Environment Record © Chesterfield Borough Council © Derbyshire County Council © Doncaster Metropolitan Borough Council © Erewash Borough Council © Erewash Borough Council © Leeds City Council © Leicestershire County Council © Newcastle-Under-Lyme Borough Council © North Warwickshire Borough Council © North West Leicestershire District Council © North Yorkshire County Council © Nottingham City Council © Nottinghamshire County Council © Rotherham Metropolitan Borough Council © Rushcliffe Borough Council © Selby District Council © St Helens Council © Staffordshire County Council © Warrington Borough Council © Warrington Borough Council © Wigan Council |
| Construction compounds | A strategic construction hub for core project management (engineering, planning and construction delivery), commercial and administrative staff associated with the construction of the Proposed Scheme. These compounds will include an area for equipment and materials storage, as well as providing main welfare facilities for construction staff, with some compounds also providing overnight sleeping accommodation for construction staff. | High Speed Two (HS2) Ltd | |
| Construction traffic route | Public highways which may be used for HGV construction traffic. | High Speed Two (HS2) Ltd | |
| County boundary | County boundaries from Ordnance Survey boundary mapping. | Ordnance Survey | © Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. |
| Depot, station, headhouse or portal building | Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures. | High Speed Two (HS2) Ltd | |

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| District/Borough boundary | Ordnance Survey local authority boundary mapping. | Ordnance Survey | © Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. |
| Ditches – new | The proposed location and extent of drainage ditches. | High Speed Two (HS2) Ltd | |
| Ecological mitigation pond | Ponds whose primary function is to provide ecological mitigation. This could be a standalone pond or part of a wider wetland habitat creation plan. | High Speed Two (HS2) Ltd | |
| Electricity substation | Includes all auto-transformers and feeder stations. | High Speed Two (HS2) Ltd | |
| Engineering earthworks | Engineering (structural) earthworks which include railway slopes and crossings (roads etc.). | High Speed Two (HS2) Ltd | |
| Engineering earthworks: Cutting | Cuttings created in the construction of the railway and associated works such as highways. | High Speed Two (HS2) Ltd | |
| Engineering earthworks: Embankment | Embankments created in the construction of the railway and associated works such as highways. | High Speed Two (HS2) Ltd | |
| Envisaged features further reducing noise effects | Other environmental features e.g. landscaping: These lines represent environmental mitigation features provided for reasons other than noise mitigation which also reduce sound levels from the Proposed Scheme to the surrounding environment. These features are not placed specifically to reduce or remove a likely significant noise effect. Examples include landscaping and visual mitigation earthworks (non-engineering earthworks). Engineering e.g. cuttings: These lines represent engineering features which reduce sound levels from the Proposed Scheme to the surrounding environment but are not placed specifically to reduce or remove a likely significant noise effect. Examples include cuttings and safety barriers on viaducts which are not close to sensitive receptors. | High Speed Two (HS2) Ltd | |
| Envisaged mitigation to avoid / reduce significant noise effects | Landscaping and/or fence barriers: These lines represent the envisaged mitigation provided specifically to reduce sound levels from the Proposed Scheme at sensitive receptors in order to reduce or remove likely operational significant noise effects. Examples include noise fence barriers or earth bunds (non-engineering earthworks) acting as noise barriers. These features are labelled with the height of the top of the barrier/bund above rail level. Engineering e.g. cuttings: These lines represent engineering features of the route which reduce sound levels from the Proposed Scheme at potentially significant sensitive receptors. These features, therefore, serve a material purpose in reducing or avoiding likely significant noise effects. Examples include engineering cuttings near to sensitive receptors. These features are labelled with the height of the top of the feature above rail level. | High Speed Two (HS2) Ltd | |

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| Existing contours | Lines depicting land heights to show topography. | Ordnance Survey | © Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. |
| Existing public right of way (PROW) | A highway where the public has the right to walk; and, depending on its class, use for other modes of travel. It can be a footpath (used for walking only), a bridleway (used for walking, riding a horse and cycling), a restricted byway (as a bridleway, but use by non-motorised vehicles also permitted) or a byway that is open to all traffic (include motor vehicles). | See Public Rights of Way. | See Public Rights of Way. |
| Existing watercourse | See Watercourse. | See Watercourse. | See Watercourse. |
| Existing woodland and tree belts | A dataset showing large areas of trees that are likely to have an impact on whether the scheme is visible during construction and vegetation. It was used in the ZTV as part of the base models. | High Speed Two (HS2) Ltd | |
| Flood Zone 2 | National Flood Zone 2 (FZ2). Land assessed, ignoring the presence of flood defences, as having between a 1% and 0.1% annual probability of river flooding. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Flood Zone 3 | National Flood Zone 3 (FZ3). Land assessed, ignoring the presence of flood defences, as having a 1% or greater annual probability of river flooding. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Geological fault line | The surface of a fault fracture along which the rocks have been displaced. The data that comprises the geological theme of 'Linear' as depicted on the 1:50,000 published map DiGMapGB-50. | British Geological Survey (BGS) | Collins English Dictionary – Complete and Unabridged © HarperCollins Publishers 1991, 1994, 1998, 2000, 2003 Reproduced with the permission of the British Geological Survey ©NERC. All rights Reserved |
| Grassed areas | Any other area grassed not included in landscaped earthworks or ecological habitat. | High Speed Two (HS2) Ltd | |
| Grassland habitat creation | Soft landscape design that can include any seeded areas for the purpose of creating grassland except for the engineering earthworks. | High Speed Two (HS2) Ltd | |
| Groundwater source protection zone | Source Protection Zones (SPZs) have been defined for approximately two thousand groundwater sources such as wells, boreholes and springs used for public drinking water supply. These zones show the risk of contamination from any activities that might cause pollution in the area. The closer the activity, the greater the risk. The maps show three main zones; SPZ1 - inner, SPZ2 - outer and SPZ3 - total catchment. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Hedgerow habitat creation | Ecological mitigation to provide new hedgerow planting, connectivity enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes. | High Speed Two (HS2) Ltd | |
| Historic flooding area | Historic Flood Map is the maximum extent of all recorded individual Historic Flood Events Outlines from river, the sea and groundwater springs and shows areas of land that have previously been subject to flooding in England & Wales. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |

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| HS2 access road | Access road to HS2 infrastructure such as electricity substations, balancing ponds and maintenance access points to the railway. | High Speed Two (HS2) Ltd | |
| Key non-residential receptors identified for assessment | These labelled locations identify the key non-residential receptors currently identified for assessment in the Sound, Noise & Vibration assessment. These key receptors will be further reviewed - both my HS2 and in consultation and engagement with stakeholders - with any additional receptors added as part of the formal ES. Feedback from stakeholders about both any sensitive locations which are not currently included, or about further relevant information regarding receptors is actively encouraged as part of the Working Draft ES consultation. | High Speed Two (HS2) Ltd | |
| Lakes & Reservoirs | A body of water such as a lake or pond forming a geographical feature. Based on Ordnance Survey Vector Map District. | Ordnance Survey | © Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. |
| Land potentially required during construction | Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works. | High Speed Two (HS2) Ltd | |
| Landscape character areas (LCA) | This dataset represents the landscape character areas that have been assessed route wide as defined by the Landscape Architects. Landscape character areas (LCAs) are single unique areas which are the discrete geographical areas of a particular landscape type | High Speed Two (HS2) Ltd | |
| Landscape earthworks | Landscape earthworks to provide permanent landscape, visual or acoustic mitigation. | High Speed Two (HS2) Ltd | |
| Landscape mitigation planting (scrub / woodland) | Screening planting, using woodland, for visual mitigation and landscape integration purposes. | High Speed Two (HS2) Ltd | |
| Licensed groundwater abstraction (excluding public water supplies) | A groundwater abstraction licence issued by the Environment Agency, which abstracts more than 20 cubic metres a day Data supplied as spreadsheet. Excludes the precise location of public water supplies in order to comply with Security and Environmental Measures Direction 1998. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Licensed surface water abstraction (excluding public water supplies) | A surface water abstraction licence issued by the Environment Agency, which abstracts more than 20 cubic metres a day. Data supplied as spreadsheet. Excludes the precise location of public water supplies in order to comply with Security and Environmental Measures Direction 1998. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Listed building grade I | Buildings and structures in England of special architectural or historic interest. In some instances the source data for individual buildings is grouped under a single grid reference, in these instances the data may have been interrogated further to identify addresses of individual buildings with Listed Building status so that these can be displayed individually on the map. The Listed Building data consists of approximately 375,000 standing structures. The information has been converted from paper records georeferenced to digital mapping. A small percentage of the data was manually located. The data is subject to continuous review and regularly updated as new structures are designated and positional accuracy improves. | Historic England | © Historic England 2017. Contains Ordnance Survey data © Crown copyright and database right 2017 The Historic England GIS Data contained in this material was obtained July 2017. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk. |
| Listed building grade II* | | | |
| Listed building grade II | | | |

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|---------------------------------|---|--|--|
| Local Nature Reserve (LNR) | A Local Nature Reserve (LNR) is a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949 by principal local authorities. Data supplied has the status of Declared. The boundaries are interpreted from material gathered from the local authorities and does not currently cover all LNRs. This national dataset is indicative not definitive. Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset. | Natural England | © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017 |
| Local Wildlife Site (LWS) | A non-statutory site of nature conservation value that has been designated 'locally'. These sites are referred to differently between counties. Common terms including site of importance for nature conservation, county wildlife site, site of biological importance, site of local importance and sites of metropolitan importance. In some cases Local Wildlife data is not shown as this is still being verified. | Barnsley Metropolitan Borough Council Broxtowe Borough Council Cheshire Biological Record Cheshire East Council Cheshire West and Chester Derbyshire Wildlife Trust Doncaster Metropolitan Borough Council Erewash Borough Council Greater Manchester Biological Record Leicestershire and Rutland Environment Records Centre (LRERC). Nottingham City Council Nottingham City Council Rotherham Metropolitan Borough Council Sheffield City Council St Helens Council Staffordshire Ecological Record Wakefield Council Warrington Borough Council Warwickshire County Council West Yorkshire Ecological Data Wigan Council | © Barnsley Metropolitan Borough Council © Broxtowe Borough Council © Cheshire Biological Record © Cheshire East Council © Cheshire West and Chester © Derbyshire Wildlife Trust © Doncaster Metropolitan Borough Council © Erewash Borough Council © Greater Manchester Biological Record © Leicestershire and Rutland Environment Records Centre (LRERC). © Nottingham City Council © Nottingham City Council © Rotherham Metropolitan Borough Council © Sheffield City Council © St Helens Council © Staffordshire Ecological Record © Wakefield Council © Warrington Borough Council © Warwickshire County Council © West Yorkshire Ecological Data © Wigan Council |
| Location of major utility | Represents all new major utility installations (included in the hybrid Bill). Includes water, electricity, telecommunications and gas. | High Speed Two (HS2) Ltd | |
| Main construction compound | Main Construction Compounds in which main contractors offices and welfare facilities will be located. | High Speed Two (HS2) Ltd | |
| National Nature Reserve (NNR) | National Nature Reserve are declared by the statutory country conservation agencies under the National Parks and Access to the Countryside Act 1949 and the Wildlife and Countryside Act 1981. | Natural England | © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017 |
| New, diverted or realigned PRoW | New, realigned or diverted Public Rights of Way (PRoW). | High Speed Two (HS2) Ltd | |
| Noise fence barrier | Denotes fence-style barriers provided as part of the noise mitigation measures. Note that other noise barriers have also been included in the form of landscaping and engineering cuttings - see the SV map series for more detail on noise mitigation. | High Speed Two (HS2) Ltd | |

| | | | |
|---|---|--|--|
| Noise Important Areas defined in national noise action plans (DEFRA 2014) | Noise Important Areas - as defined in national action plans – indicate existing noise 'hotspots' identified by strategic noise mapping carried out by Defra and published in the Noise action plans: large urban areas, roads and railways in 2014. These are intended as information which relevant authorities can use when identifying noise management measures. | Department for Environment, Food and Rural Affairs (DEFRA) | © Crown 2017 copyright Defra via data.gov.uk, licenced under the Open Government Licence (OGL). |
| Non engineering earthworks: Cutting | Cuttings created in the construction of landscape features and mitigation measures. | High Speed Two (HS2) Ltd | |
| Non engineering earthworks: Embankment | Embankments created in the construction of landscape features and mitigation measures. | High Speed Two (HS2) Ltd | |
| Photomontage location | Shows the locations from which verifiable photomontages have been produced. The locations are based on a fully surveyed point. | High Speed Two (HS2) Ltd | |
| Potential noise insulation qualifier | Potential noise insulation qualifier due to noise from the Proposed Scheme. Further information on noise insulation can be found in Volume 2 reports. | High Speed Two (HS2) Ltd | |
| Proposed tree planting | A dataset showing proposed planting that may have an impact on whether the scheme is visible during construction and operation. It was used in the operation year 15 ZTV. | High Speed Two (HS2) Ltd | |
| PRoW closure | Public rights of way that will be closed due to construction of the scheme. | High Speed Two (HS2) Ltd | |
| Public realm/Replacement community facility | Public realm: Specifically provided to show areas to be used for public realm. This layer is mainly associated with station sites and is to be used to indicate general areas for designed soft and hard landscaping. Replacement community facility: Area of land for the provision of a permanent replacement community facility, such as a playground, community centre or activity centre. | High Speed Two (HS2) Ltd | |
| Public Rights of Way (PRoW) | Public rights of way are highways which can be used for the following purposes: - Footpaths - pedestrians only - Bridleways - pedestrians, cyclists and equestrians - Restricted byways - as bridleways plus non-motorised vehicles - Byways open to all traffic. Definitive Map data supplied by surveying authorities. | Ashfield District Council Barnsley Metropolitan Borough Council Bolton Metropolitan Borough Council Derbyshire Council Doncaster Metropolitan Borough Council Leeds City Council Leicestershire County Council North Yorkshire County Council Rotherham Metropolitan Borough Council St.Helens Council Warrington Borough Council Wigan Council | © Ashfield District Council © Barnsley Metropolitan Borough Council © Bolton Metropolitan Borough Council © Derbyshire Council © Doncaster Metropolitan Borough Council © Leeds City Council © Leicestershire County Council © North Yorkshire County Council © Rotherham Metropolitan Borough Council © St.Helens Council © Warrington Borough Council © Wigan Council |
| Pumping station | Pumping stations is a machine that lifts water from a lower to upper level, providing protection against flooding of the railway and effective drainage of low spots. The square box represents the extent of the sump which stores the water ready to be pumped. | High Speed Two (HS2) Ltd | |
| Rail alignment | Longitudinal geometry of the tracks consisting of a series of straights and curves. | High Speed Two (HS2) Ltd | |
| Rail alignment formation | The space required to accommodate the railway infrastructure which typically includes the tracks, overhead line equipment, drainage, lineside access paths and cable routes for electrification and communication systems. | High Speed Two (HS2) Ltd | |

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|---|---|--------------------------|---|
| Ramsar Site – Wetland of International Importance | Wetland sites that are of international importance, as designated under Article 2(1) of the Convention on Wetlands of International Importance especially as Waterfowl Habitat. Ramsar (Iran), 2 February 1971. UN Treaty Series No. 14583. | Natural England | © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017 |
| Registered park or garden | Parks and Gardens of special historic interest. Supplied by Historic England. Of the 1,590 Registered Parks and Gardens, over 91% were captured against the 1:10,000 Ordnance Survey Raster product. 135 records are potentially subject to movement under Positional Accuracy Improvement (PAI) improvements. | Historic England | © Historic England 2017. Contains Ordnance Survey data © Crown copyright and database right 2017 The Historic England GIS Data contained in this material was obtained on 25 January 2017. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk. |
| Replacement floodplain storage | An area of low-lying land designed to temporarily fill with flood water to replace an area of existing floodplain lost due to development. | High Speed Two (HS2) Ltd | |
| Risk of Flooding from Surface Water | The risk of flooding from surface water that hasn't yet entered a watercourse | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Route in tunnel Route on surface | Represents the proposed route of HS2, split into route on surface and tunnelled sections. | High Speed Two (HS2) Ltd | |
| Satellite construction compound | A compound that is smaller in size than the main compounds. Satellite compounds provide office accommodation for limited numbers of staff involved in the construction of the Proposed Scheme. Welfare facilities for staff are also provided. | High Speed Two (HS2) Ltd | |
| Scheduled monument | Nationally significant heritage assets protected by the Ancient Monuments and Archaeological Areas Act 1979. The Scheduled Monument layer consists of approximately 22,380 monuments tied into the Ordnance Survey. The majority of these are fixed; however, a small number of records may be updated as digital positional accuracy improves. The data is subject to continuous review and regularly updated as new monuments are designated. | Historic England | © Historic England 2017. Contains Ordnance Survey data © Crown copyright and database right 2017 The Historic England GIS Data contained in this material was obtained on 25 January 2017. The most publicly available up to date Historic England GIS Data can be obtained from HistoricEngland.org.uk. |
| Significantly affected viewpoint | This dataset shows the locations of the visual receptors from which the schemes visual impact has been assessed and shows whether or not the impact is significant or non-significant during construction and operation. | High Speed Two (HS2) Ltd | |
| Site of Special Scientific Interest (SSSI) | Area of land notified by Natural England under Section 28 of the Wildlife and Countryside Act 1981 as being of special interest due to its flora, fauna or geological or physiological features. | Natural England | © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017 |
| Special Areas of Conservation (SAC) | Special Areas of Conservation (SACs) are strictly protected sites designated under the EC Habitats Directive. Article 3 of the Habitats Directive requires the establishment of a European network of important high-quality conservation sites that will make a significant contribution to conserving the 189 habitat types and 788 species identified in Annexes I and II of the Directive (as amended). | Natural England | © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017 |

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|--|---|---------------------------------|---|
| Special Protection Areas (SPA) | Special Protection Areas (SPAs) are strictly protected sites classified in accordance with Article 4 of the EC Birds Directive, which came into force in April 1979. They are classified for rare and vulnerable birds (as listed on Annex I of the Directive), and for regularly occurring migratory species. | Natural England | © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2017 |
| Spring | A surface expression of a groundwater body. | High Speed Two (HS2) Ltd | |
| Superficial deposits | A geological deposit that was laid down during the Quaternary period. Such deposits were largely formed by river and glacial processes but may also include wind-blown deposits known as loess. The data that comprises the geological theme of 'Superficial' as depicted on the 1:50000 published map DiGMapGB-50. The legend on the full geological legend page (WR-02-LEGEND) comprises the LEX_RCS (a unique abbreviation to identify the rock), the rock name and its aquifer status. | British Geological Survey (BGS) | Reproduced with the permission of the British Geological Survey ©NERC. All rights Reserved |
| System compounds | Represents railway systems compounds which facilitate installation, testing and commissioning of the railway systems, including track, overhead line equipment, communications and signalling equipment and traction power supply. | High Speed Two (HS2) Ltd | |
| Temporary highway diversion / realignment | Indicative temporary highway diversion layouts during the construction phase. | High Speed Two (HS2) Ltd | |
| Temporary material stockpile | Represents temporary stockpiling of topsoil, subsoil and other excavated materials to be used for reinstatement purposes, and also stockpile areas for managing movement of excavated materials during construction. | High Speed Two (HS2) Ltd | |
| Temporary PRow closure | Indicative temporary closures to public rights of way as a result of construction of the scheme. | High Speed Two (HS2) Ltd | |
| Temporary PRow diversion / realignment | Indicative temporary diversions to public rights of way as a result of construction of the scheme. These will vary depending on construction phase and local conditions. | High Speed Two (HS2) Ltd | |
| Temporary replacement community facility | Area of land for the provision of a temporary replacement community facility, such as a playground, community centre or activity centre, whilst construction works are in progress. | High Speed Two (HS2) Ltd | |
| Temporary workers accommodation | Temporary accommodation for workers during the construction period. | High Speed Two (HS2) Ltd | |
| Tunnel portal | The footprint of a tunnel portal. | High Speed Two (HS2) Ltd | |
| Tunnels external extent | The external excavated extent of each tunnel bore. | High Speed Two (HS2) Ltd | |
| Unlicensed private groundwater abstraction (or private surface water abstractions) | A private water supply from either a groundwater or a surface water source, which abstracts less than 20 cubic metres a day. Local authorities currently hold a register of private water supplies. The local authorities are required in accordance with The Private Water Supplies Regulations 2009, to ensure that unlicensed abstractions meet certain quality standards. Data supplied as spreadsheet. Digitised within 2km. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |
| Water body | Any mass of water having definite hydrological, physical, chemical and biological characteristics. | Ordnance Survey | © Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. |
| Watercourse | Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes. | Environment Agency | Contains Environment Agency information © Environment Agency and database right |

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|---------------------------|--|--------------------------|---|
| Watercourse diversion | Includes rivers, streams, ditches and other open channels, diversions to these, together with any new culverts required. | High Speed Two (HS2) Ltd | |
| Wetland habitat creation | Ecological mitigation area to provide new wetland habitat creation, enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes. | High Speed Two (HS2) Ltd | |
| Woodland | Woodland areas derived from Ordnance Survey MasterMap data. | Ordnance Survey | © Crown copyright and database rights 2017 OS 100049190. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-licence, distribute or sell any of this data to third parties in any form. |
| Woodland habitat creation | Ecological mitigation area to provide new woodland planting, connectivity enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes. | High Speed Two (HS2) Ltd | |

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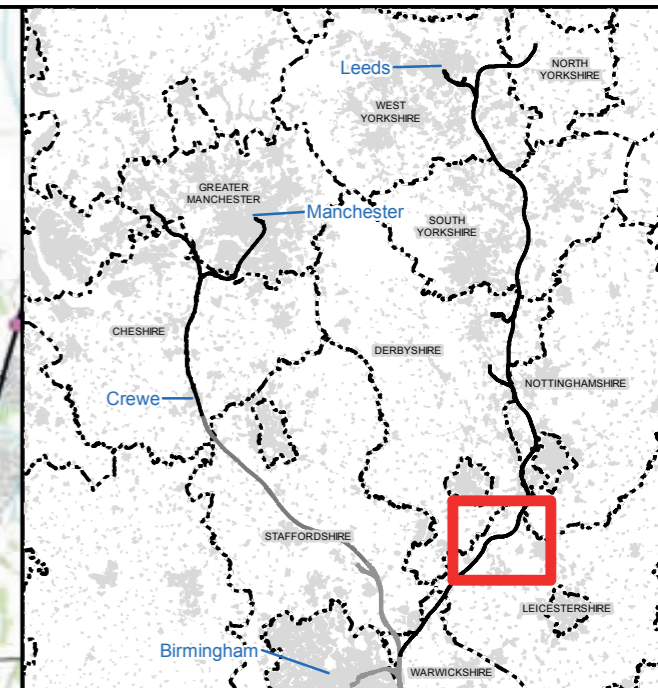
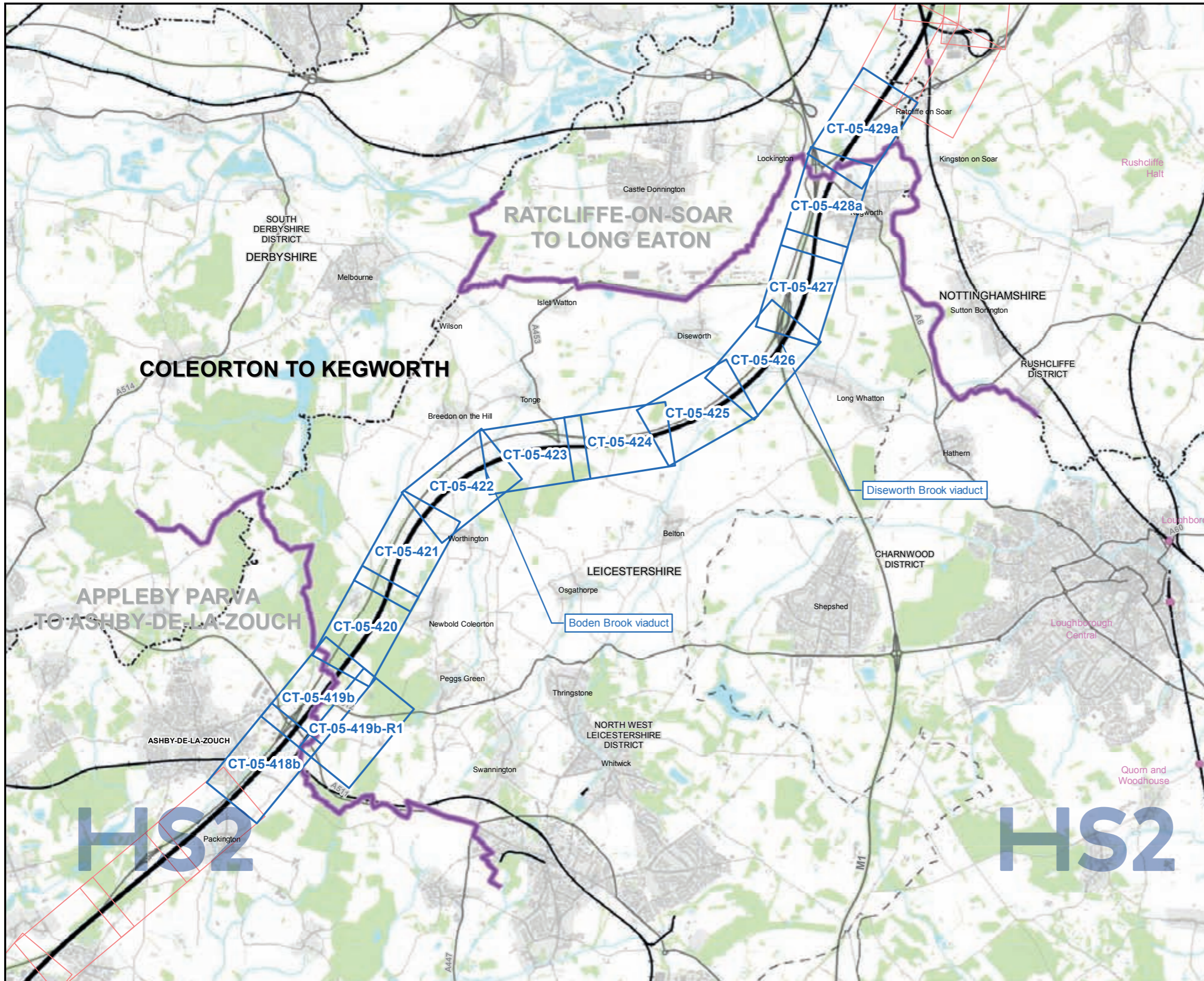
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High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

CT-05 – Construction Phase

CT-06 – Proposed Scheme



Map Series Information:
 These maps show the land potentially required during construction, the construction features, access requirements and infrastructure associated with the construction phase arrangements for public access using Public Rights of Way.

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County Boundary
- District/Borough Boundary
- Map sheets included in this community area
- Map sheets not included in this community area

| | |
|------------|---|
| Map Number | CT-05-INDEX-LA04 |
| Map Name | Index Map of: CT-05 – Construction Phase WDES |
| | Community Area LA04: Coleorton to Kegworth |

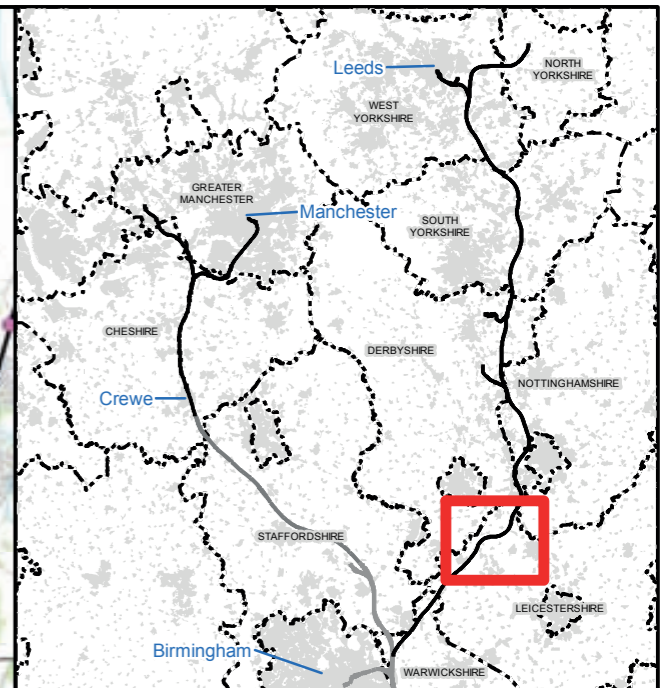
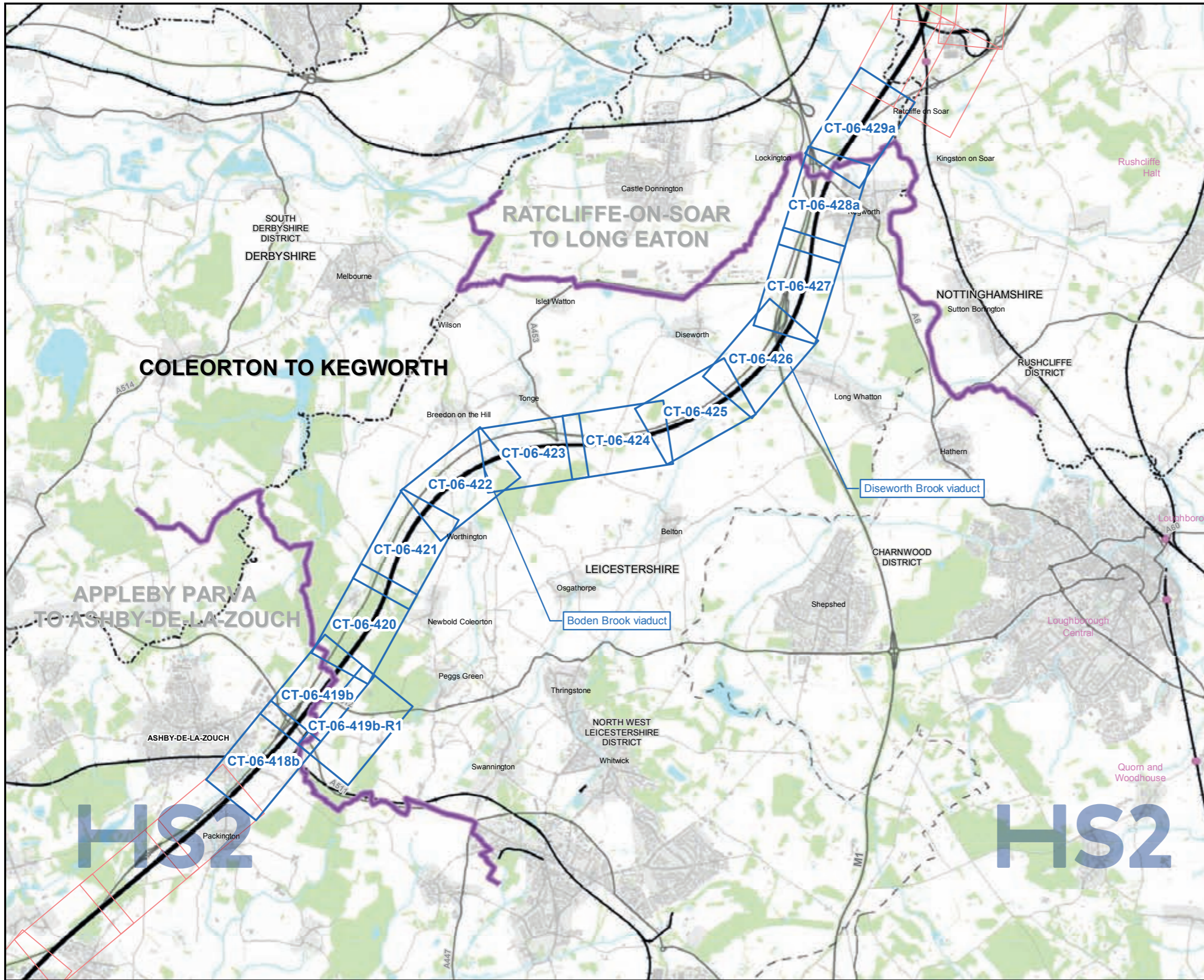
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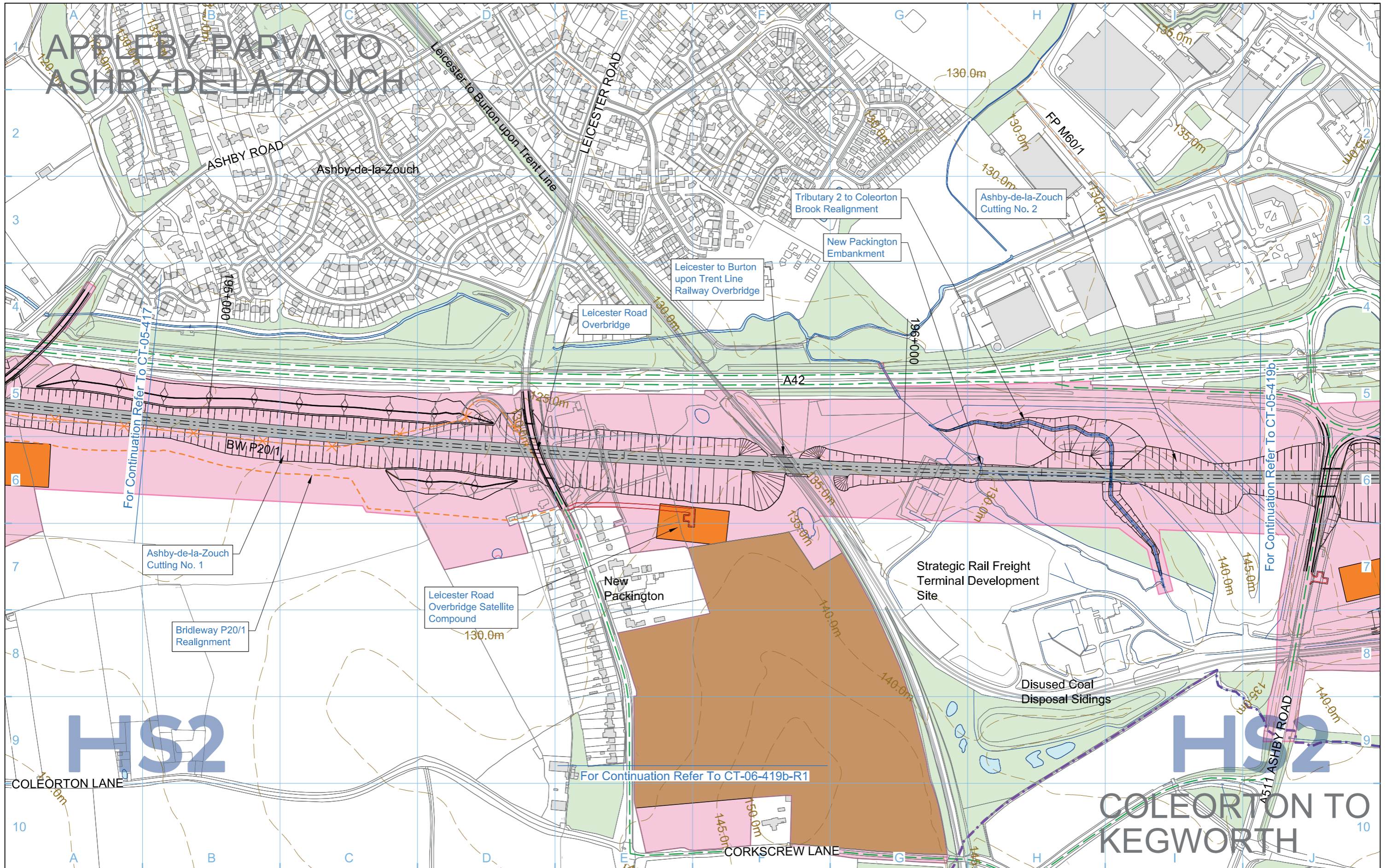


Map Series Information:

These maps show permanent features, infrastructure, restored land, and areas for landscaping, screening and ecological mitigation associated with the Proposed Scheme.

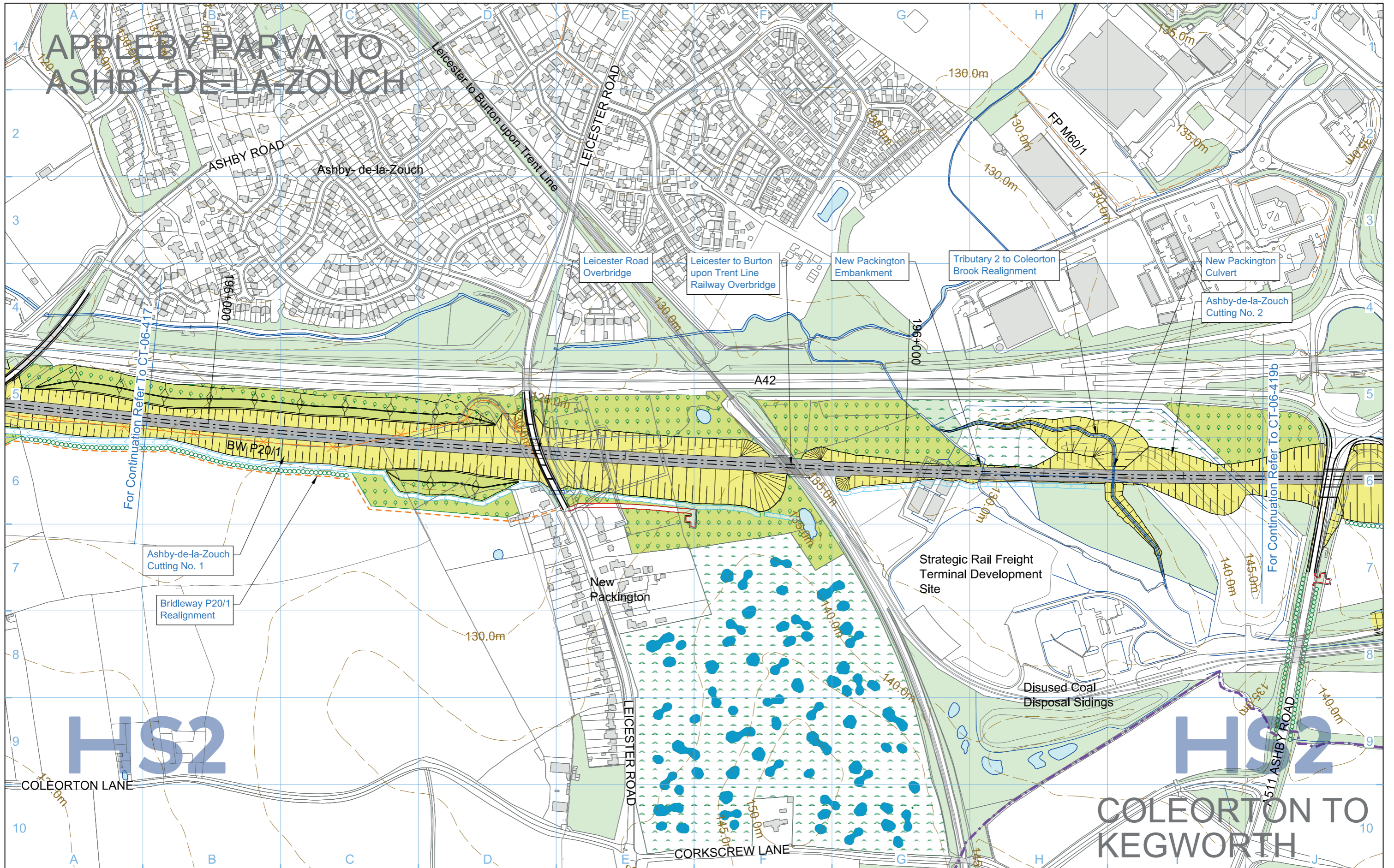
| | | | |
|--|--|---|---|
| Main Map Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Community area boundary Existing railway station County boundary District/Borough boundary Map sheets included in this community area Map sheets not included in this community area | | Map Number CT-06-INDEX-LA04 Map Name Index Map of: CT-06 – Proposed Scheme WDES Community Area LA04: Coleorton to Kegworth | HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA Scale at A3: 1:75,000 © Crown copyright and database rights 2018 OS 100049190. Doc Number: 2DE02-ACI-EV-MAP-L001-001179-P03 Date: 12/07/18 |
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APPIEBY PARVA TO ASHBY-DE-LA-ZOUCH



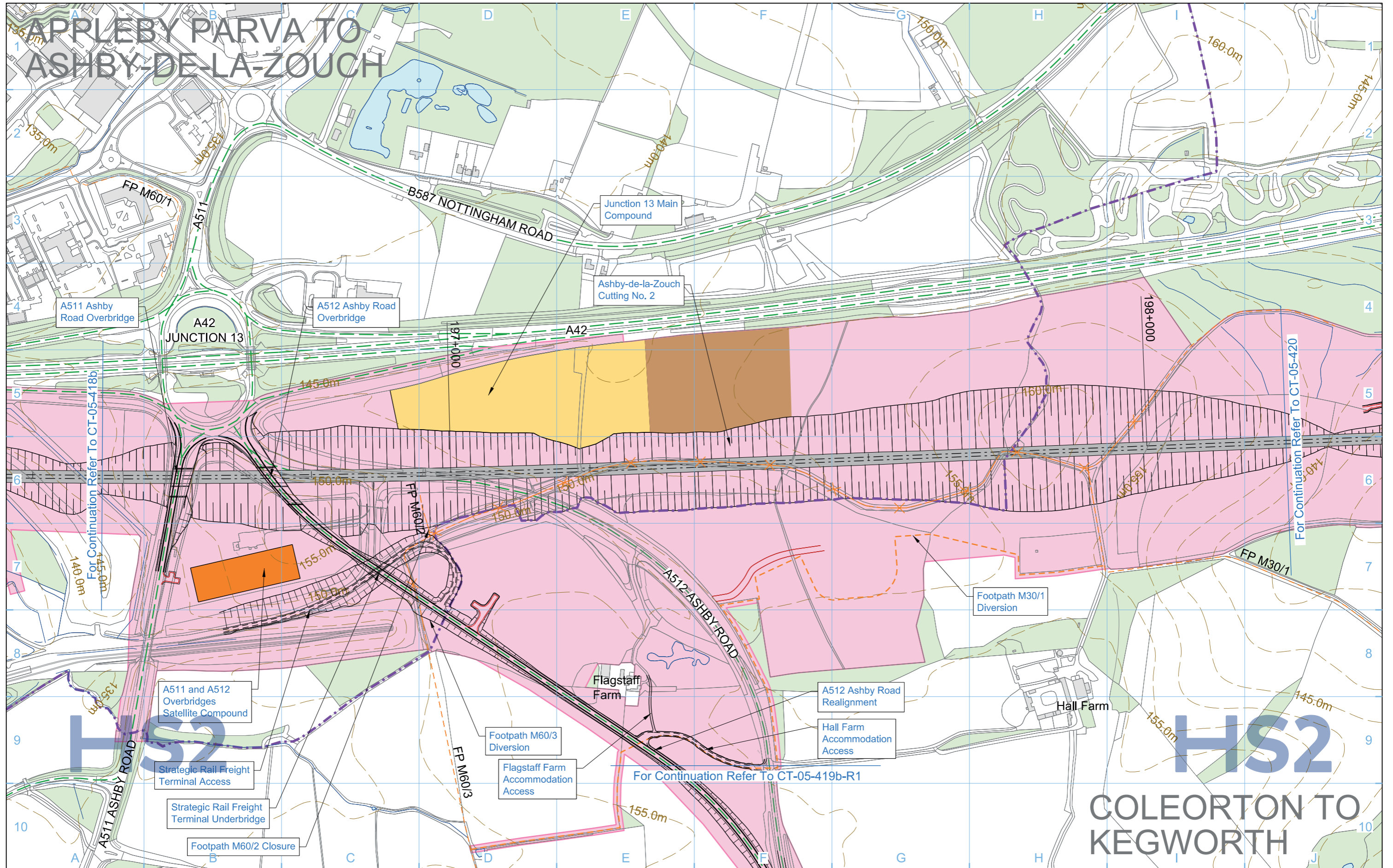
| | | | | | | | |
|---|--|--|--|---|--|---|--|
| Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound System Compounds Temporary material stockpile | | <ul style="list-style-type: none"> Community Area boundary Tunnels external extent Construction traffic route Existing public right of way (PRoW) PRoW Closure Temporary PRoW Closure Temporary PRoW diversion / realignment New, diverted or realigned PRoW | | <ul style="list-style-type: none"> Landscape earthworks Engineering earthworks Temporary highway diversion / realignment Location of major utility Rail alignment Chainage (e.g. 10+000) | | <ul style="list-style-type: none"> County boundary Borough / District boundary HS2 Access road Existing watercourse Existing contours Rail alignment formation Temporary workers accommodation | |
| <p>10+000</p> | | <p>10+000</p> | | <p>10+000</p> | | <p>10+000</p> | |
| <p>Map Number CT-05-418b</p> | | <p>Map Name CT-05 - Construction Phase WDES</p> | | <p>Community Area LA04 Coleorton to Kegworth</p> | | <p>HS2 Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> | |
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APPLEBY PARVA TO ASHBY-DE-LA-ZOUCH



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|-------------------|--|--|--|
| Legend | | Map Number CT-06-418b Map Name CT-06 - Proposed Scheme WDES Community Area LA04 Coleorton to Kegworth | Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-626110 P05 Date: 25/07/18 |
|-------------------|--|--|--|

APPLEBY PARVA TO ASHBY-DE-LA-ZOUCH



| | |
|--|---|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Main construction compound |
| | Satellite construction compound |
| | Land potentially required during construction |
| | System Compounds |
| | Temporary material stockpile |
| | Temporary replacement community facility |

| | |
|--|---|
| | Community Area boundary |
| | Tunnels external extent |
| | Construction traffic route |
| | Existing public right of way (PRoW) |
| | PRoW Closure |
| | Temporary PRoW Closure |
| | Temporary PRoW diversion / realignment |
| | New, diverted or realigned PRoW |
| | Landscape earthworks |
| | Engineering earthworks |
| | Temporary highway diversion / realignment |
| | Location of major utility |
| | Rail alignment Chainage (e.g. 10+000) |

| | |
|--|---------------------------------|
| | County boundary |
| | Borough / District boundary |
| | HS2 Access road |
| | Existing watercourse |
| | Existing contours |
| | Rail alignment formation |
| | Temporary workers accommodation |

| | |
|----------------|--|
| Map Number | CT-05-419b |
| Map Name | CT-05 - Construction Phase WDES |
| Community Area | LA04 Coleorton to Kegworth |

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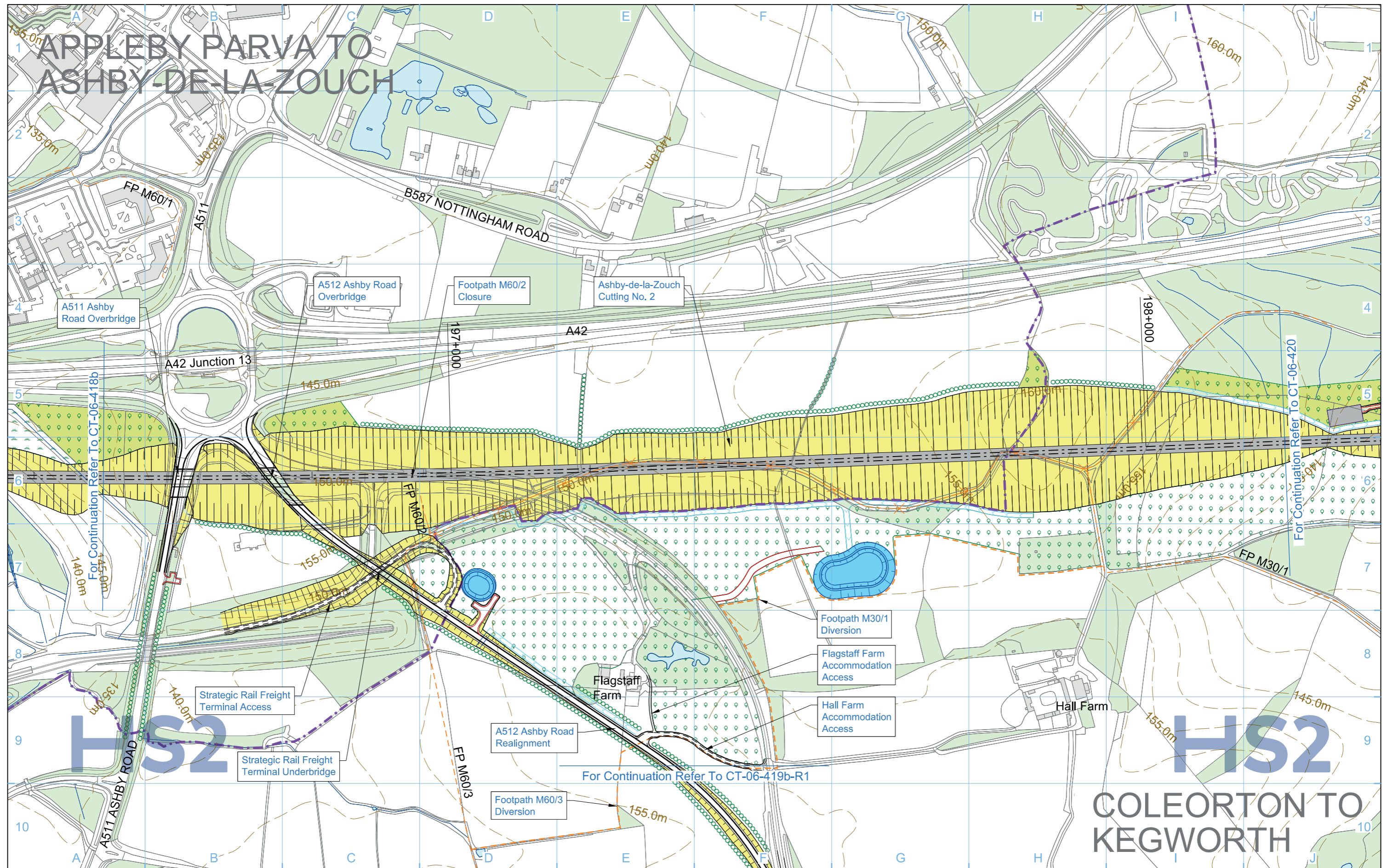
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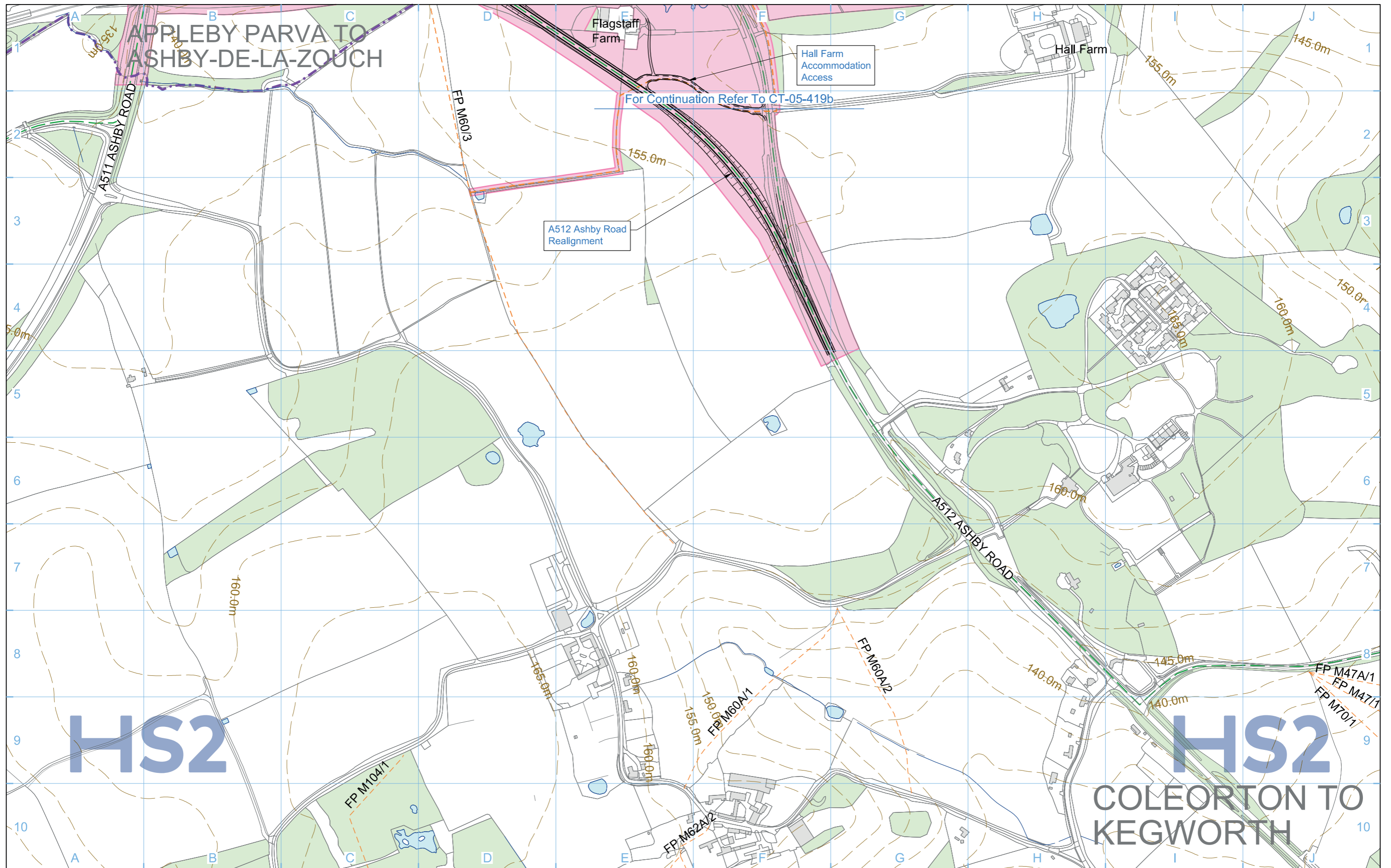
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APPLEBY PARVA TO ASHBY-DE-LA-ZOUCH



HS2 COLEORTON TO KEGWORTH

| | | | | | |
|--|--|--|--|---|--|
| Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Electricity substation Ecological mitigation pond Balancing pond Replacement floodplain storage Pumping Station Woodland habitat creation Wetland habitat creation Grassland habitat creation Landscape mitigation planting (scrub / woodland) Grassed areas Public realm Engineering earthworks Landscape earthworks Rail alignment formation Tunnels external extent | | <ul style="list-style-type: none"> Community Area boundary Watercourse diversion or Existing watercourse Ditches - new Hedgerow habitat creation Location of major utility Existing public right of way (PRoW) New, diverted or realigned PRoW PRoW Closure | | <ul style="list-style-type: none"> County boundary Borough / District boundary Existing contours HS2 access road Noise fence barrier Rail alignment Chainage (e.g. 10+000) | |
| Map Number CT-06-419b Map Name CT-06 - Proposed Scheme WDES Community Area LA04 Coleorton to Kegworth | | HS2 <small>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</small> <small>© Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190.</small> Doc Number: 2DE02-ACI-EV-DPL-L001-626310 Date: 26/07/18 | | <small>Scale at A3: 1:5,000</small> | |



| Legend | |
|--------|---|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Main construction compound |
| | Satellite construction compound |
| | Land potentially required during construction |
| | System Compounds |
| | Temporary material stockpile |
| | Temporary replacement community facility |

| | |
|--|--|
| | Community Area boundary |
| | Tunnels external extent |
| | Construction traffic route |
| | Existing public right of way (PRoW) |
| | PRoW Closure |
| | Temporary PRoW Closure |
| | Temporary PRoW diversion / realignment |
| | New, diverted or realigned PRoW |

| | |
|--|---|
| | Landscape earthworks |
| | Engineering earthworks |
| | Temporary highway diversion / realignment |
| | Location of major utility |
| | Rail alignment Chainage (e.g. 10+000) |

| | |
|--|---------------------------------|
| | County boundary |
| | Borough / District boundary |
| | HS2 Access road |
| | Existing watercourse |
| | Existing contours |
| | Rail alignment formation |
| | Temporary workers accommodation |

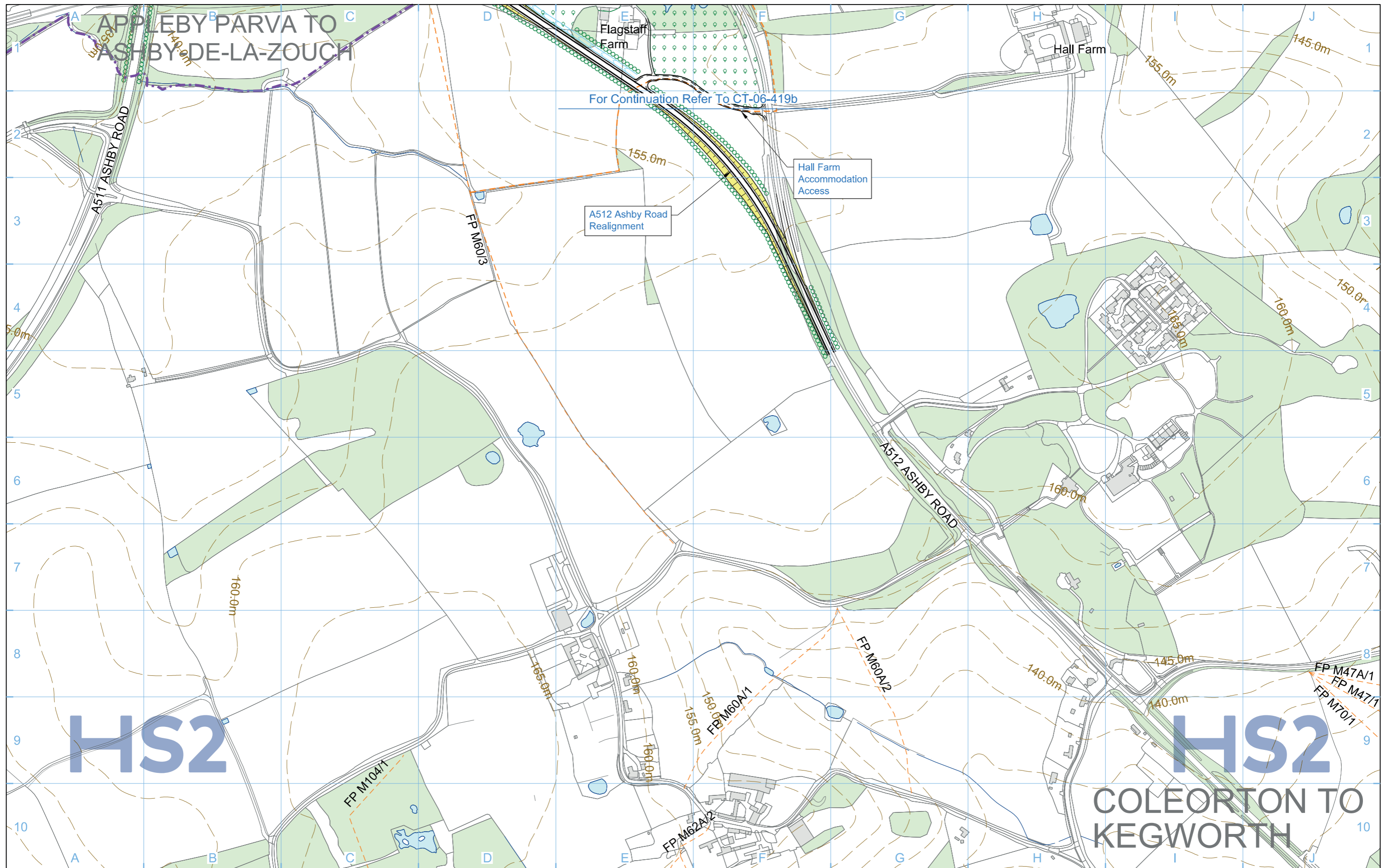
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| Map Number | CT-05-419b-R1 |
| Map Name | CT-05 - Construction Phase WDES |
| Community Area | LA04 Coleorton to Kegworth |

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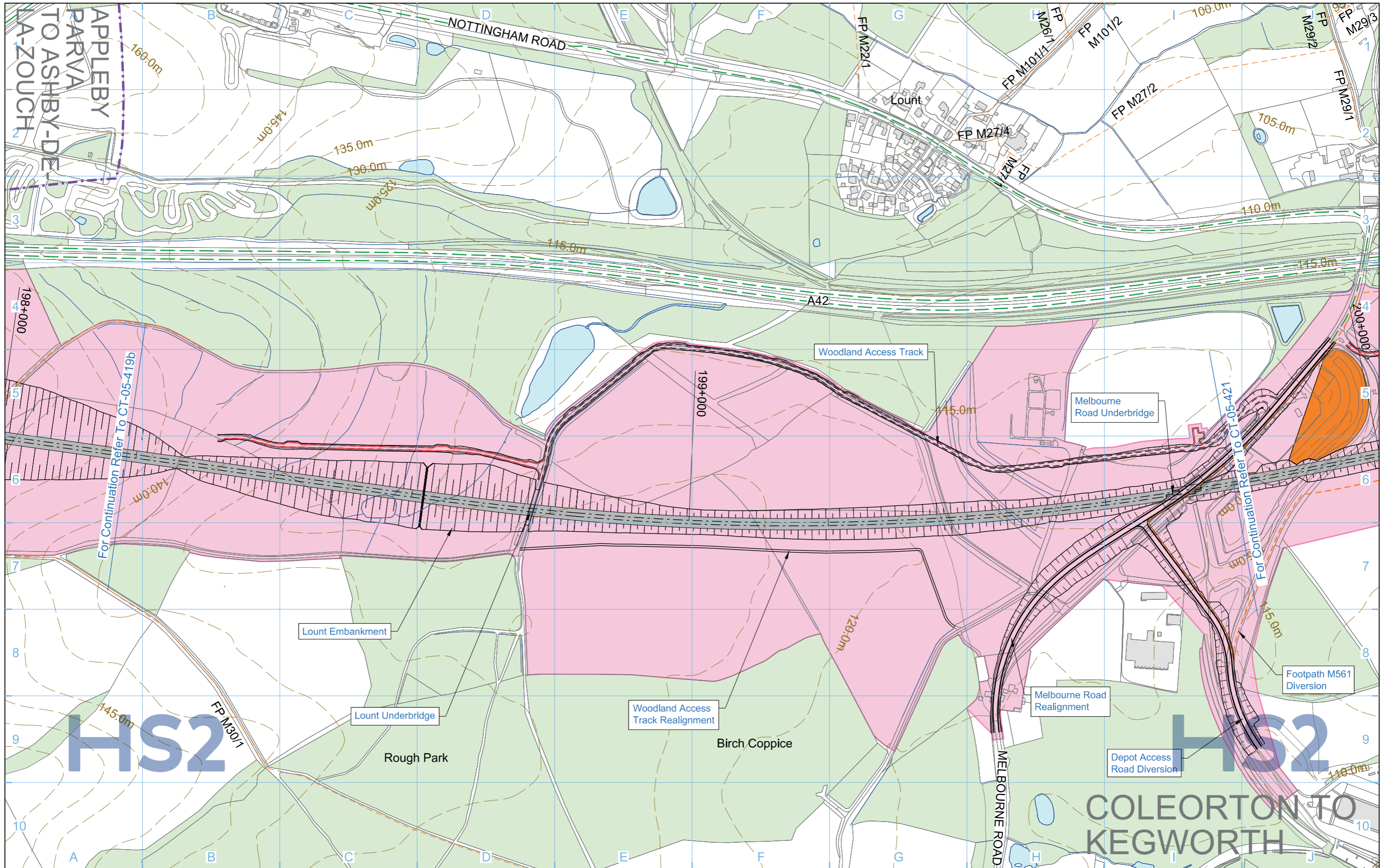


| Legend | |
|--------|--|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Electricity substation |
| | Ecological mitigation pond |
| | Balancing pond |
| | Replacement floodplain storage |
| | Woodland habitat creation |
| | Wetland habitat creation |
| | Grassland habitat creation |
| | Landscape mitigation planting (scrub / woodland) |
| | Grassed areas |
| | Public realm |

| | |
|--|-------------------------------------|
| | Engineering earthworks |
| | Landscape earthworks |
| | Rail alignment formation |
| | Tunnels external extent |
| | Community Area boundary |
| | Watercourse diversion |
| | or Existing watercourse |
| | Ditches - new |
| | Hedgerow habitat creation |
| | Location of major utility |
| | Existing public right of way (PRoW) |
| | New, diverted or realigned PRoW |
| | PRoW Closure |

| | |
|--|-----------------------------|
| | County boundary |
| | Borough / District boundary |
| | 130.0m Existing contours |
| | HS2 access road |
| | Noise fence barrier |
| | Rail alignment |
| | Chainage (e.g. 10+000) |

| | | |
|---|--|---|
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| Map Name CT-06 - Proposed Scheme WDES | | |
| Community Area LA04 Coleorton to Kegworth | <p>© Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2DE02-ACI-EV-DPL-L001-626311 P05 Date: 25/07/18</p> | |



| | |
|--|---|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Main construction compound |
| | Satellite construction compound |
| | Land potentially required during construction |
| | System Compounds |
| | Temporary material stockpile |
| | Temporary replacement community facility |

| | |
|--|--|
| | Community Area boundary |
| | Tunnels external extent |
| | Construction traffic route |
| | Existing public right of way (PRoW) |
| | PRoW Closure |
| | Temporary PRoW Closure |
| | Temporary PRoW diversion / realignment |
| | New, diverted or realigned PRoW |

| | |
|--|---|
| | Landscape earthworks |
| | Engineering earthworks |
| | Temporary highway diversion / realignment |
| | Location of major utility |
| | Rail alignment Chainage (e.g. 10+000) |

| | |
|--|---------------------------------|
| | County boundary |
| | Borough / District boundary |
| | HS2 Access road |
| | or Existing watercourse |
| | 130.0m Existing contours |
| | Rail alignment formation |
| | Temporary workers accommodation |

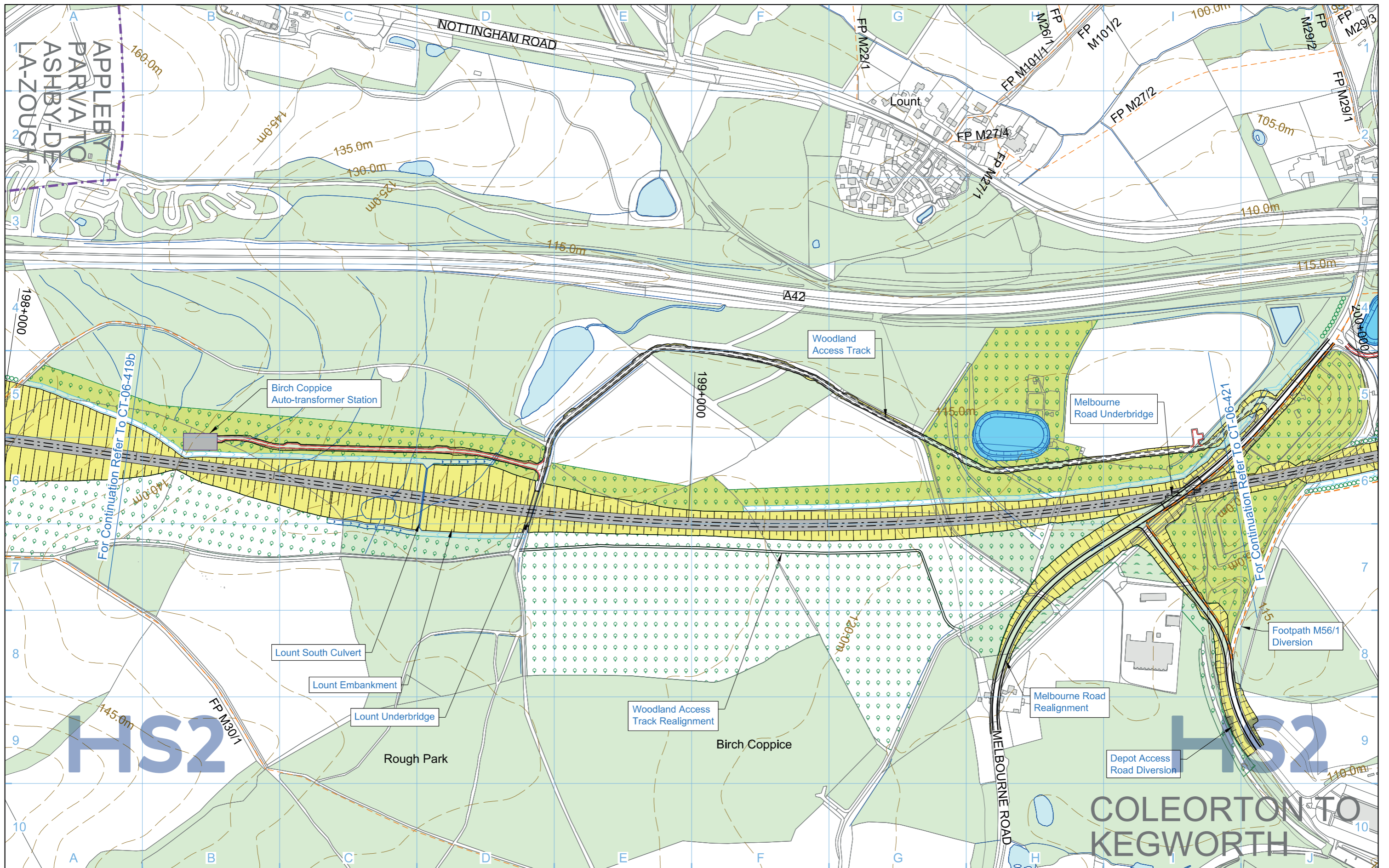
| | |
|----------------|--|
| Map Number | CT-05-420 |
| Map Name | CT-05 - Construction Phase WDES |
| Community Area | LA04 Coleorton to Kegworth |

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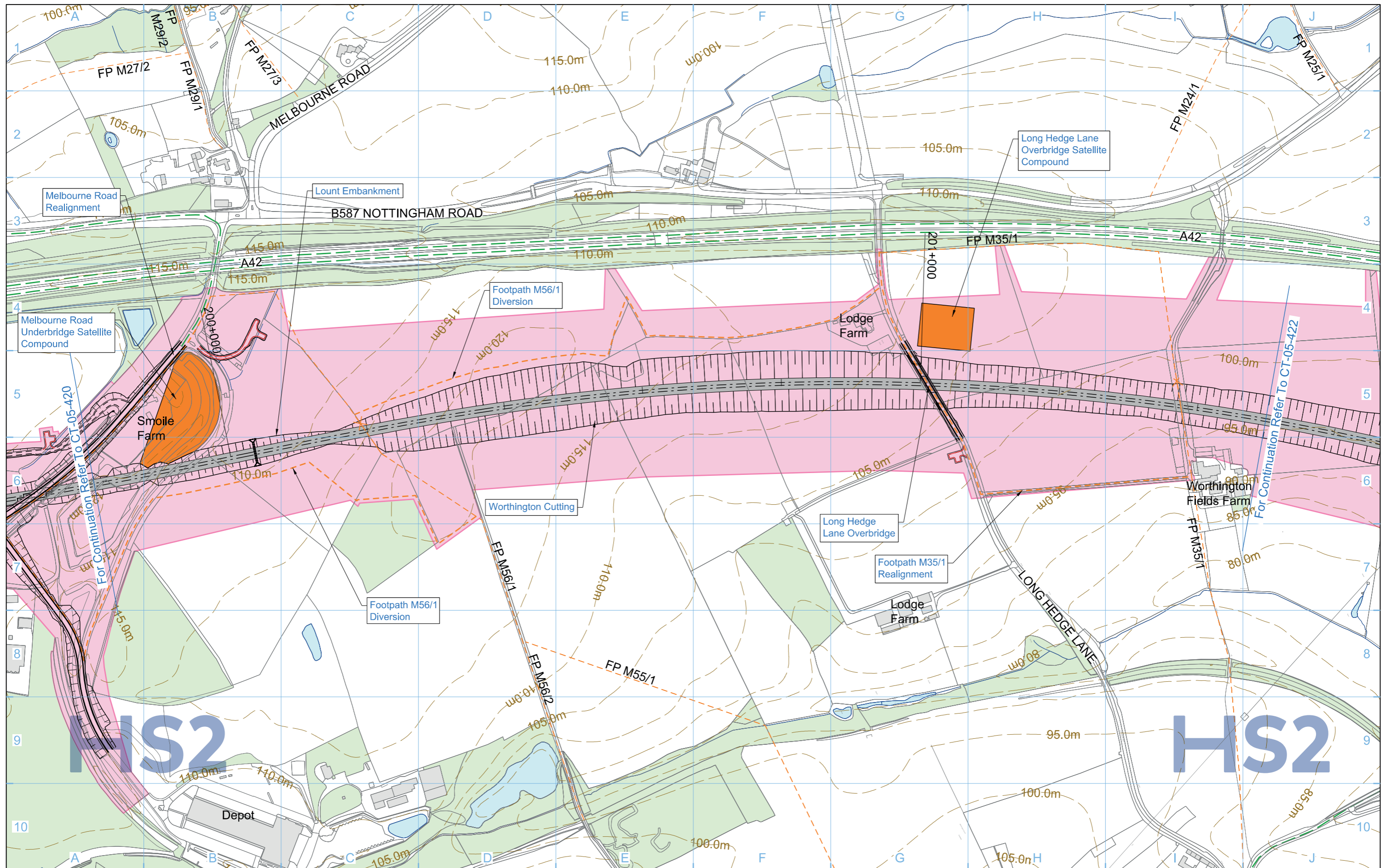
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| | | | | | |
|-------------------|--|---|--|--|--|
| Legend | | Map Information Map Number: CT-06-420 Map Name: CT-06 - Proposed Scheme WDES Community Area: LA04 Coleorton to Kegworth | | Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 Metres © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-626500 P05 Date: 25/07/18 | |
|-------------------|--|---|--|--|--|



| Legend | |
|--------|---|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Main construction compound |
| | Satellite construction compound |
| | Land potentially required during construction |
| | System Compounds |
| | Temporary material stockpile |
| | Temporary replacement community facility |

| | |
|--|--|
| | Community Area boundary |
| | Tunnels external extent |
| | Construction traffic route |
| | Existing public right of way (PRoW) |
| | PRoW Closure |
| | Temporary PRoW Closure |
| | Temporary PRoW diversion / realignment |
| | New, diverted or realigned PRoW |

| | |
|--|---|
| | Landscape earthworks |
| | Engineering earthworks |
| | Temporary highway diversion / realignment |
| | Location of major utility |
| | Rail alignment Chainage (e.g. 10+000) |

| | |
|--|---------------------------------|
| | County boundary |
| | Borough / District boundary |
| | HS2 Access road |
| | Existing watercourse |
| | Existing contours |
| | Rail alignment formation |
| | Temporary workers accommodation |

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|----------------|---------------------------------|
| Map Number | CT-05-421 |
| Map Name | CT-05 - Construction Phase WDES |
| Community Area | LA04 Coleorton to Kegworth |

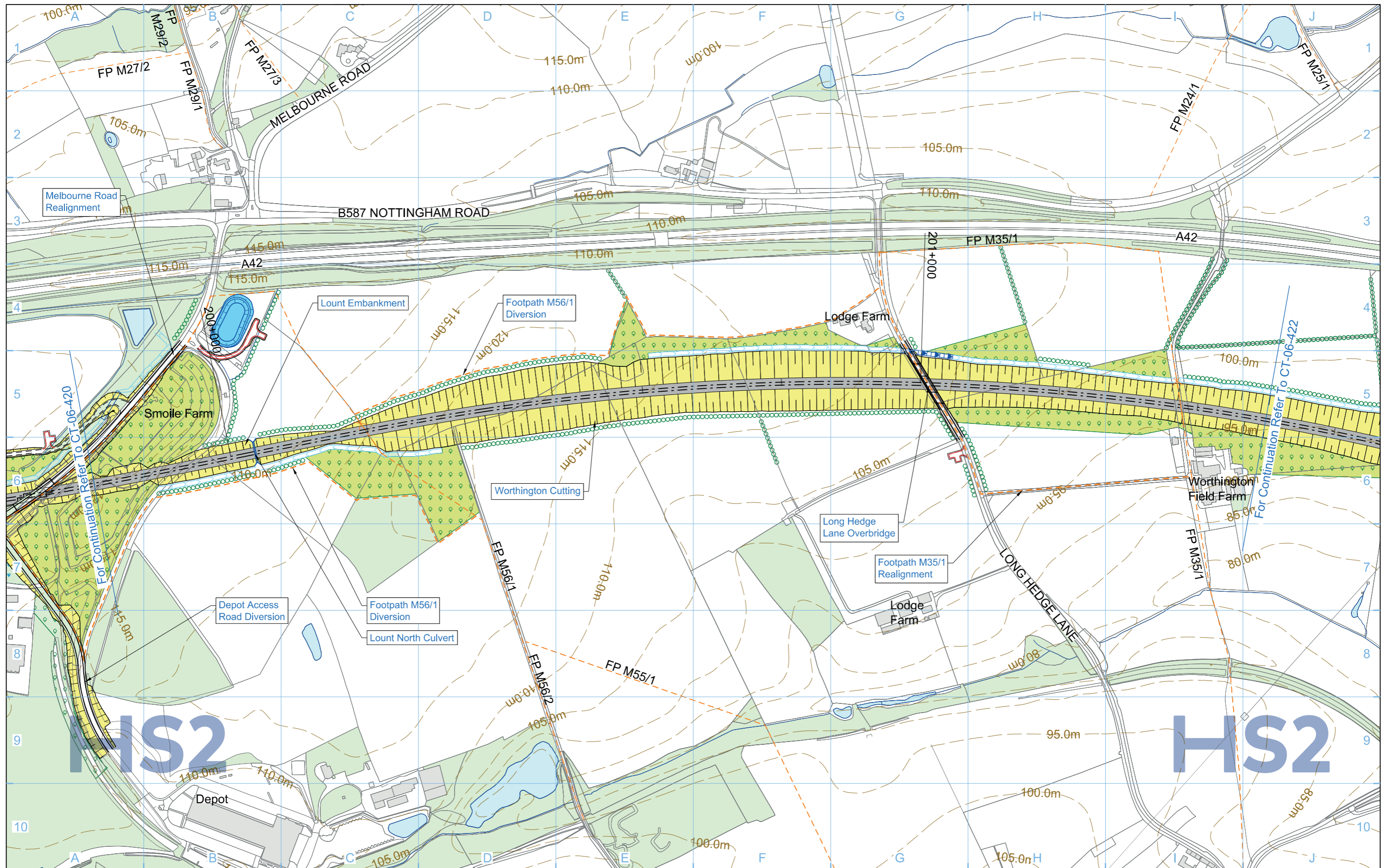
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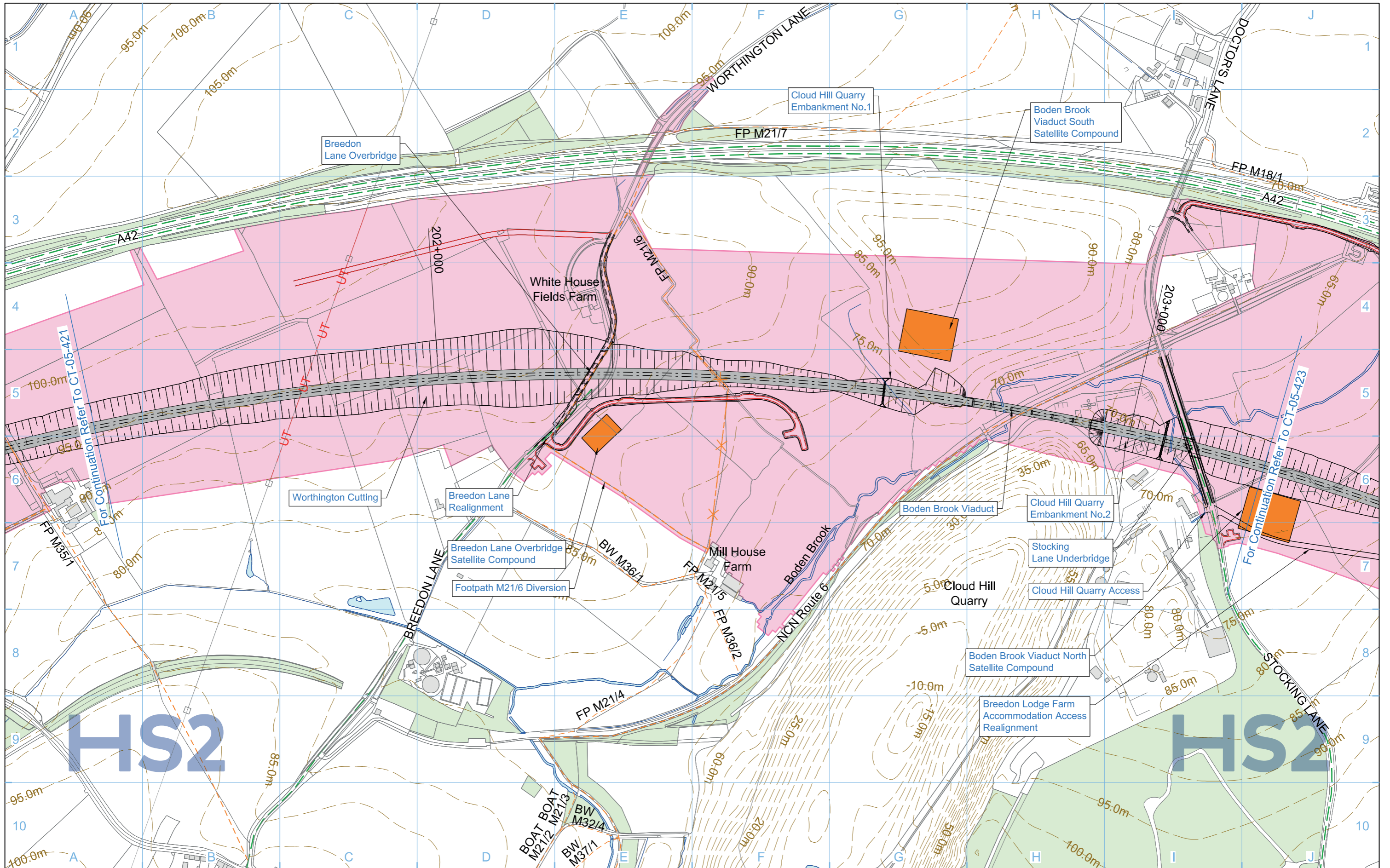
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|-------------------|--|--|---|
| Legend | | Map Number CT-06-421 Map Name CT-06 - Proposed Scheme WDES Community Area LA04 Coleorton to Kegworth | Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-626700 P05 Date: 25/07/18 |
|-------------------|--|--|---|



| | | | |
|--|--|--|---|
| | Depot, station, headhouse or portal building | | Land potentially required during construction |
| | Tunnel portal | | Temporary replacement community facility |
| | Main construction compound | | |
| | Satellite construction compound | | |
| | System Compounds | | |
| | Temporary material stockpile | | |

| | | | |
|--|--|--|---|
| | Community Area boundary | | Landscape earthworks |
| | Tunnels external extent | | Engineering earthworks |
| | Construction traffic route | | Temporary highway diversion / realignment |
| | Existing public right of way (PRoW) | | Location of major utility |
| | PRoW Closure | | Rail alignment Chainage (e.g. 10+000) |
| | Temporary PRoW Closure | | |
| | Temporary PRoW diversion / realignment | | |
| | New, diverted or realigned PRoW | | |

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|--|-----------------------------|--|---------------------------------|
| | County boundary | | HS2 Access road |
| | Borough / District boundary | | Existing watercourse |
| | Existing contours | | Rail alignment formation |
| | 130.0m Existing contours | | Temporary workers accommodation |

Map Number: **CT-05-422**

Map Name: **CT-05 - Construction Phase WDES**

Community Area: LA04 Coleorton to Kegworth

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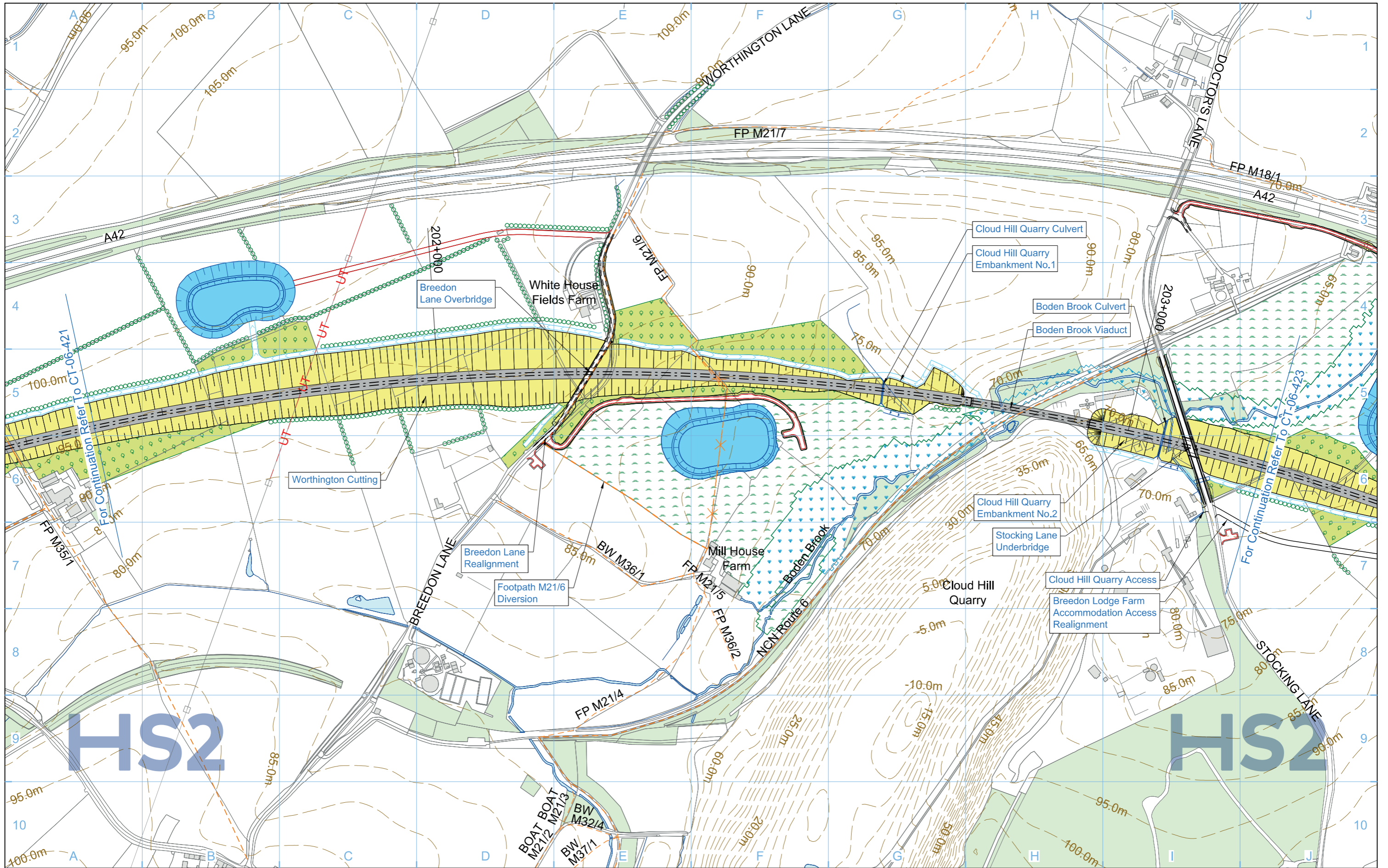
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- Legend**
- Depot, station, headhouse or portal building
 - Tunnel portal
 - Electricity substation
 - Ecological mitigation pond
 - Balancing pond
 - Replacement floodplain storage
 - Pumping Station
 - Woodland habitat creation
 - Wetland habitat creation
 - Grassland habitat creation
 - Landscape mitigation planting (scrub / woodland)
 - Grassed areas
 - Public realm
 - Engineering earthworks
 - Landscape earthworks
 - Rail alignment formation
 - Tunnels external extent

- Community Area boundary
- Watercourse diversion or Existing watercourse
- Ditches - new
- Hedgerow habitat creation
- Location of major utility
- Existing public right of way (PRoW)
- New, diverted or realigned PRoW
- PRoW Closure
- County boundary
- Borough / District boundary
- Existing contours
- HS2 access road
- Noise fence barrier
- Rail alignment
- Chainage (e.g. 10+000)

- Cloud Hill Quarry Culvert
- Cloud Hill Quarry Embankment No.1
- Boden Brook Culvert
- Boden Brook Viaduct
- Cloud Hill Quarry Embankment No.2
- Stocking Lane Underbridge
- Cloud Hill Quarry Access
- Breedon Lodge Farm Accommodation Access Realignment

- Breedon Lane Overbridge
- White House Fields Farm
- Worthington Cutting
- Breedon Lane Realignment
- Footpath M21/6 Diversion
- Mill House Farm
- Cloud Hill Quarry
- Breedon Lane
- Stocking Lane

- Cloud Hill Quarry
- Breedon Lodge Farm Accommodation Access Realignment
- Cloud Hill Quarry Access
- Breedon Lodge Farm Accommodation Access Realignment

Map Number: **CT-06-422**

Map Name: **CT-06 - Proposed Scheme WDES**

Community Area: LA04 Coleorton to Kegworth

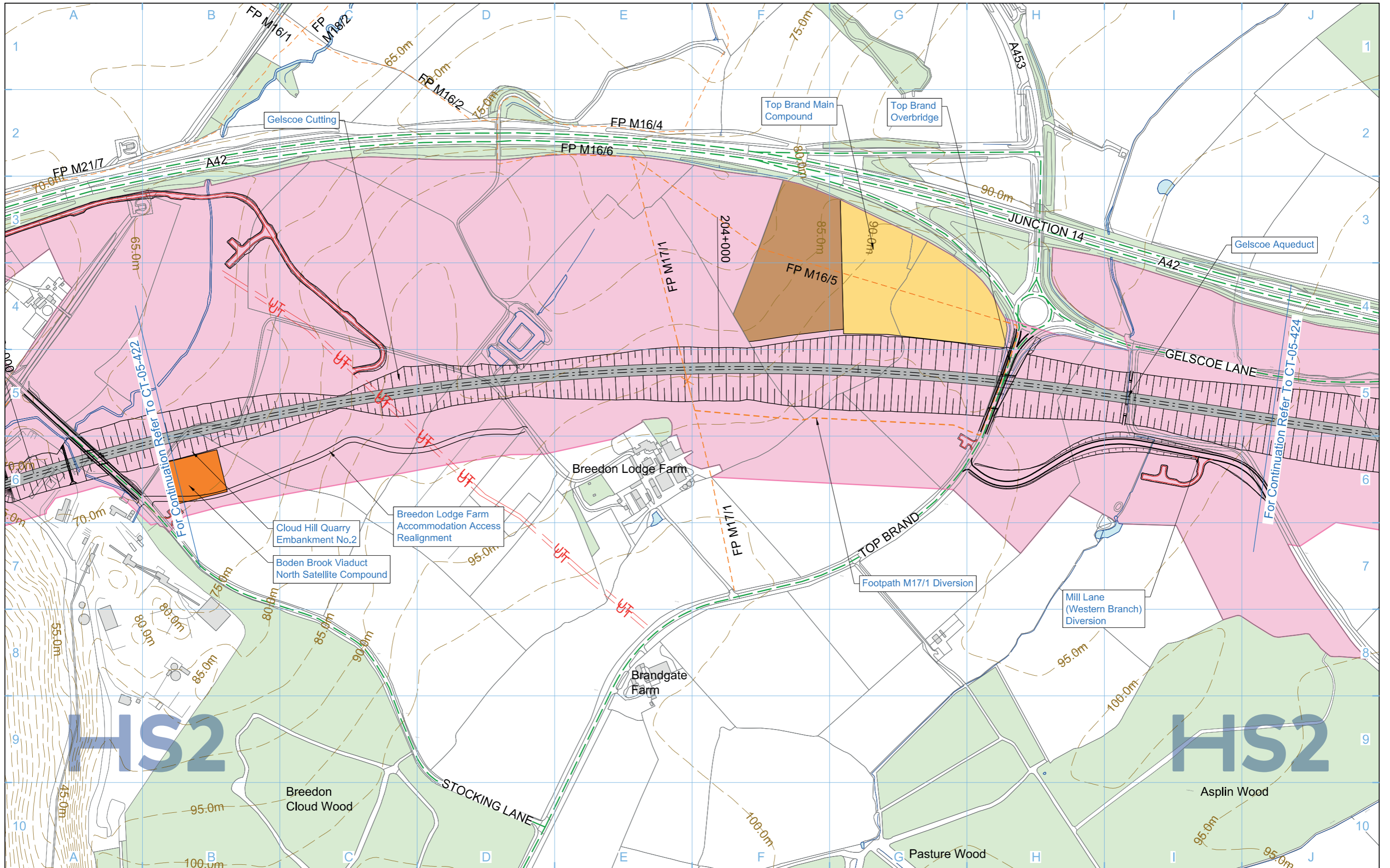
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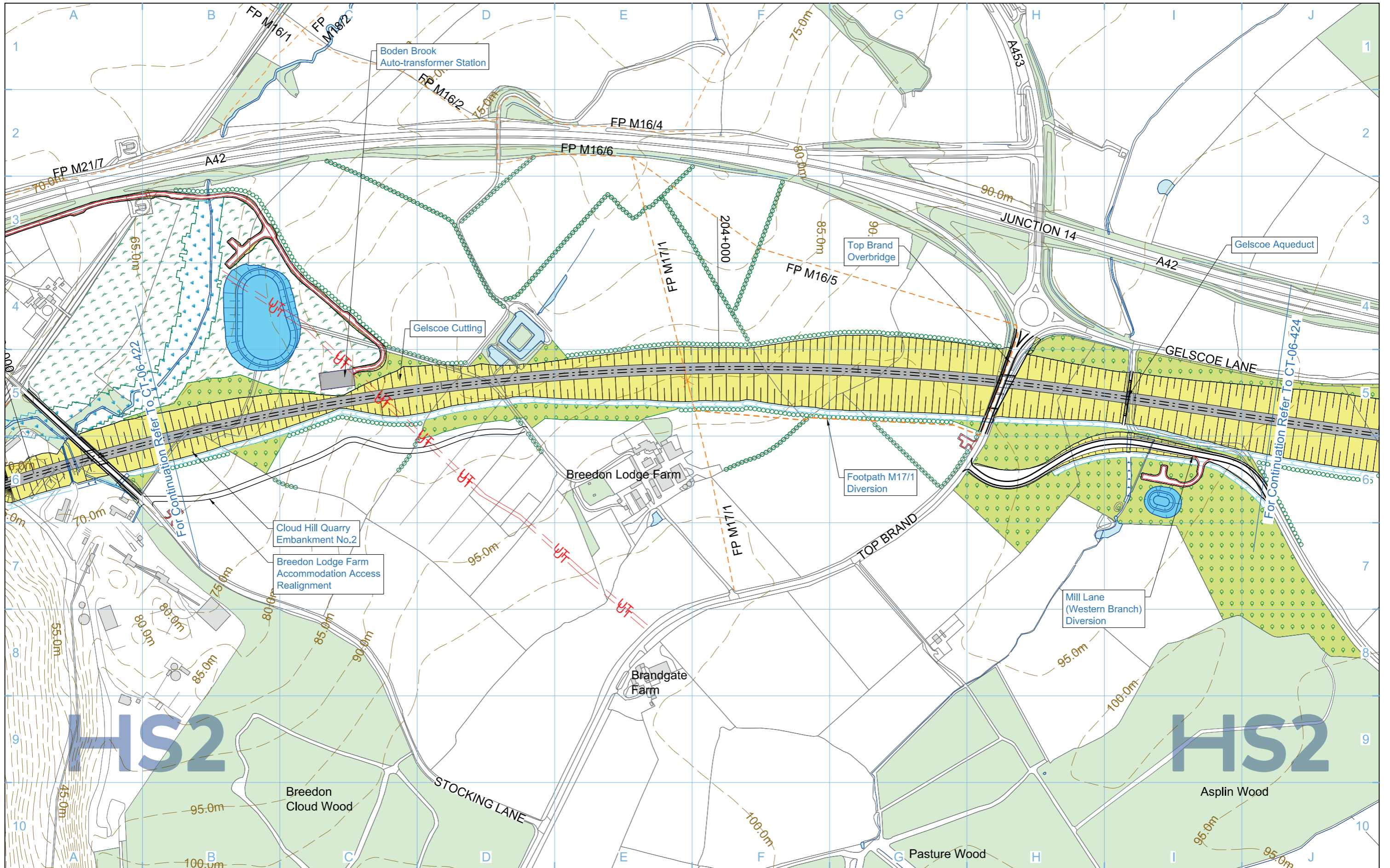
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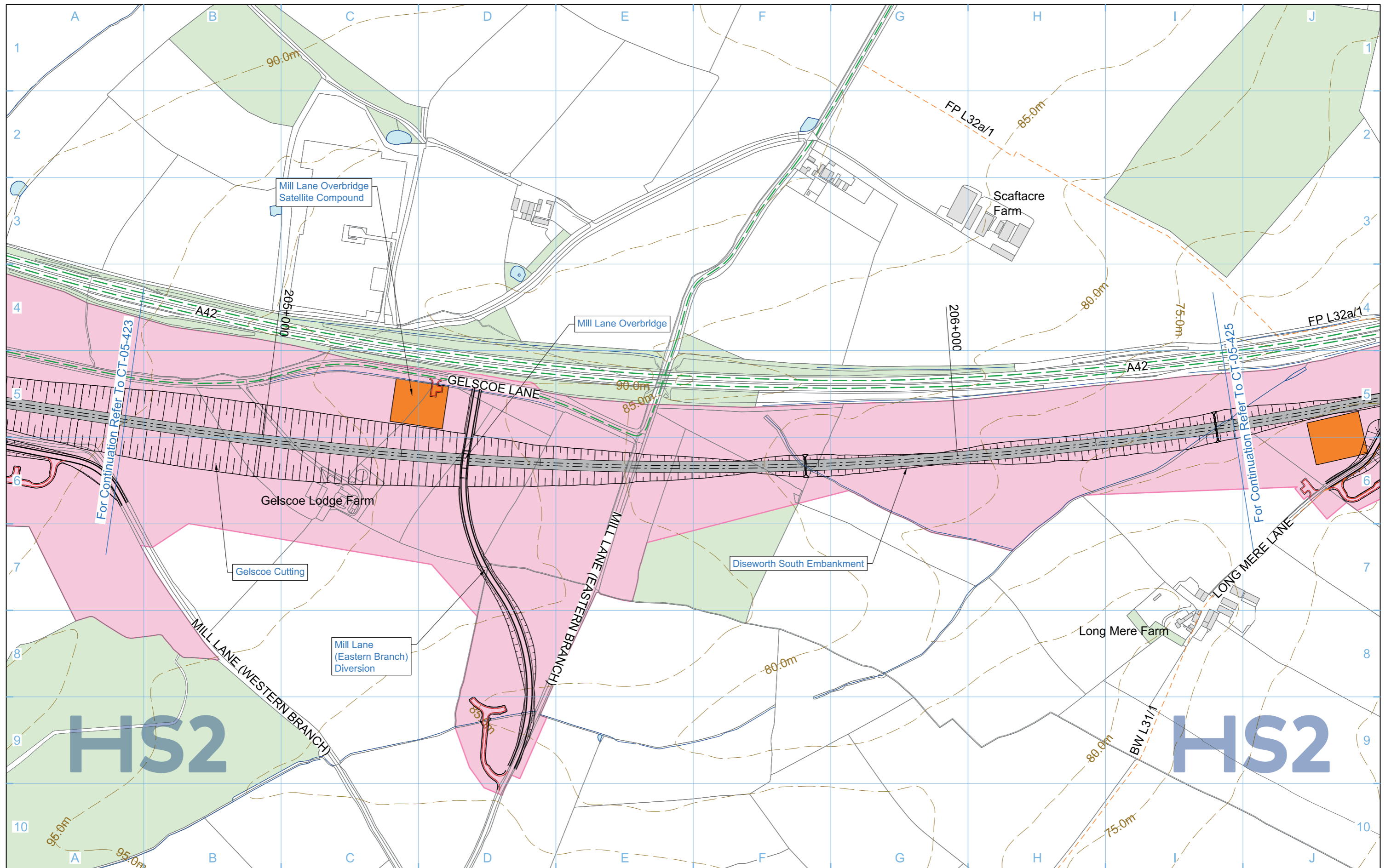
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| | | | | | | | |
|--|--|--|--|--|--|---|--|
| Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound System Compounds Temporary material stockpile Land potentially required during construction Temporary replacement community facility | | <ul style="list-style-type: none"> Community Area boundary Tunnels external extent Construction traffic route Existing public right of way (PRoW) PRoW Closure Temporary PRoW Closure Temporary PRoW diversion / realignment New, diverted or realigned PRoW Landscape earthworks Engineering earthworks Temporary highway diversion / realignment Location of major utility Rail alignment Chainage (e.g. 10+000) County boundary Borough / District boundary HS2 Access road Existing watercourse Existing contours Rail alignment formation Temporary workers accommodation | | Map Number CT-05-423 Map Name CT-05 - Construction Phase WDES Community Area LA04 Coleorton to Kegworth | | <p>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> <p>Scale at A3: 1:5,000</p> <p>© Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2DE02-ACI-EV-DPL-L001-527100 P05 Date: 25/07/18</p> | |
|--|--|--|--|--|--|---|--|



| | | | |
|-------------------|--|--|---|
| Legend | | Map Number CT-06-423 Map Name CT-06 - Proposed Scheme WDES Community Area LA04 Coleorton to Kegworth | Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-627100 P05 Date: 25/07/18 |
|-------------------|--|--|---|



| Legend | |
|--------|---|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Main construction compound |
| | Satellite construction compound |
| | Land potentially required during construction |
| | System Compounds |
| | Temporary material stockpile |
| | Temporary replacement community facility |

| | |
|--|---|
| | Community Area boundary |
| | Tunnels external extent |
| | Construction traffic route |
| | Existing public right of way (PRoW) |
| | PRoW Closure |
| | Temporary PRoW Closure |
| | Temporary PRoW diversion / realignment |
| | New, diverted or realigned PRoW |
| | Landscape earthworks |
| | Engineering earthworks |
| | Temporary highway diversion / realignment |
| | Location of major utility |
| | Rail alignment Chainage (e.g. 10+000) |

| | |
|--|---------------------------------|
| | County boundary |
| | Borough / District boundary |
| | HS2 Access road |
| | Existing watercourse |
| | Existing contours |
| | Rail alignment formation |
| | Temporary workers accommodation |

| | |
|----------------|--|
| Map Number | CT-05-424 |
| Map Name | CT-05 - Construction Phase WDES |
| Community Area | LA04 Coleorton to Kegworth |

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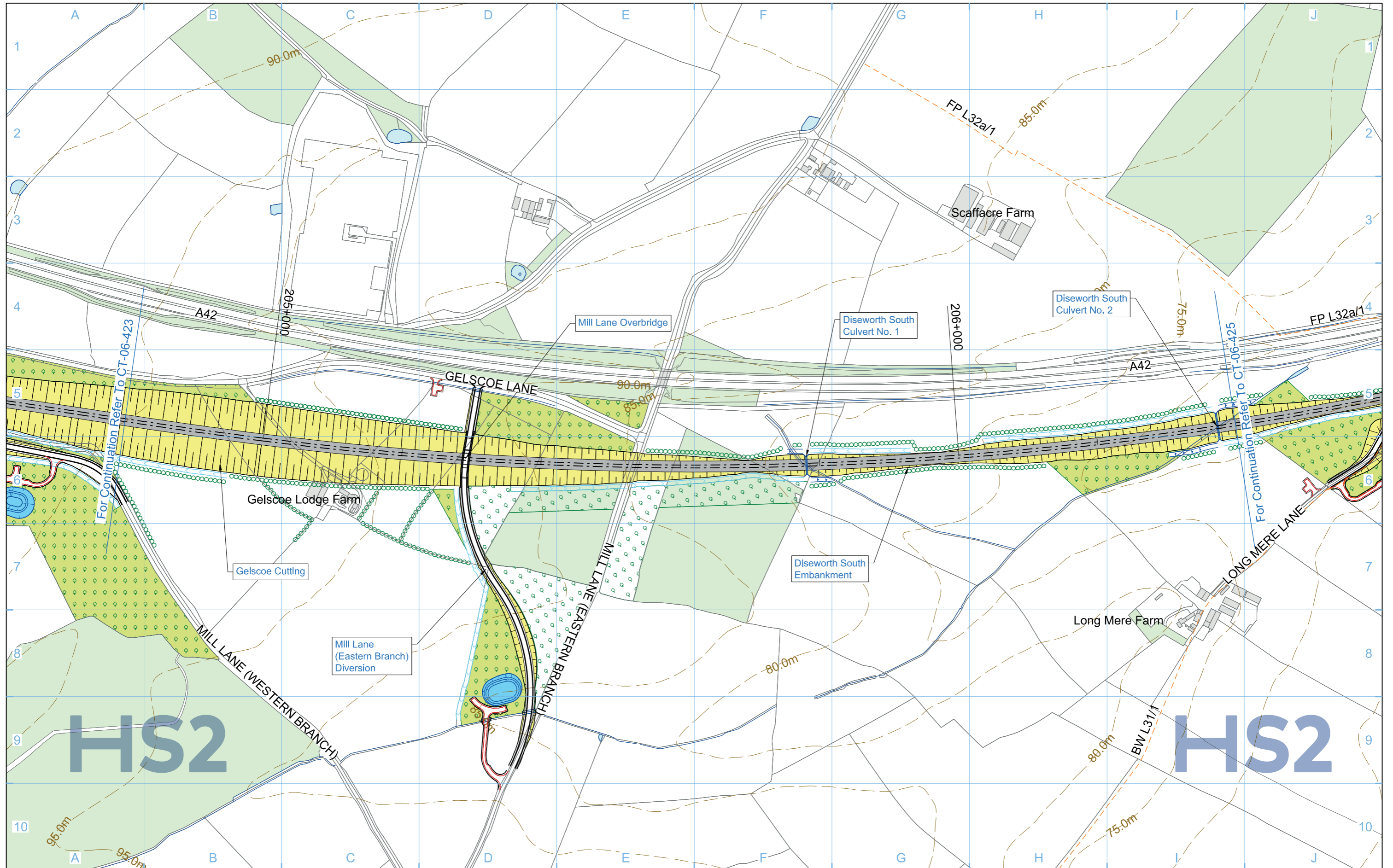
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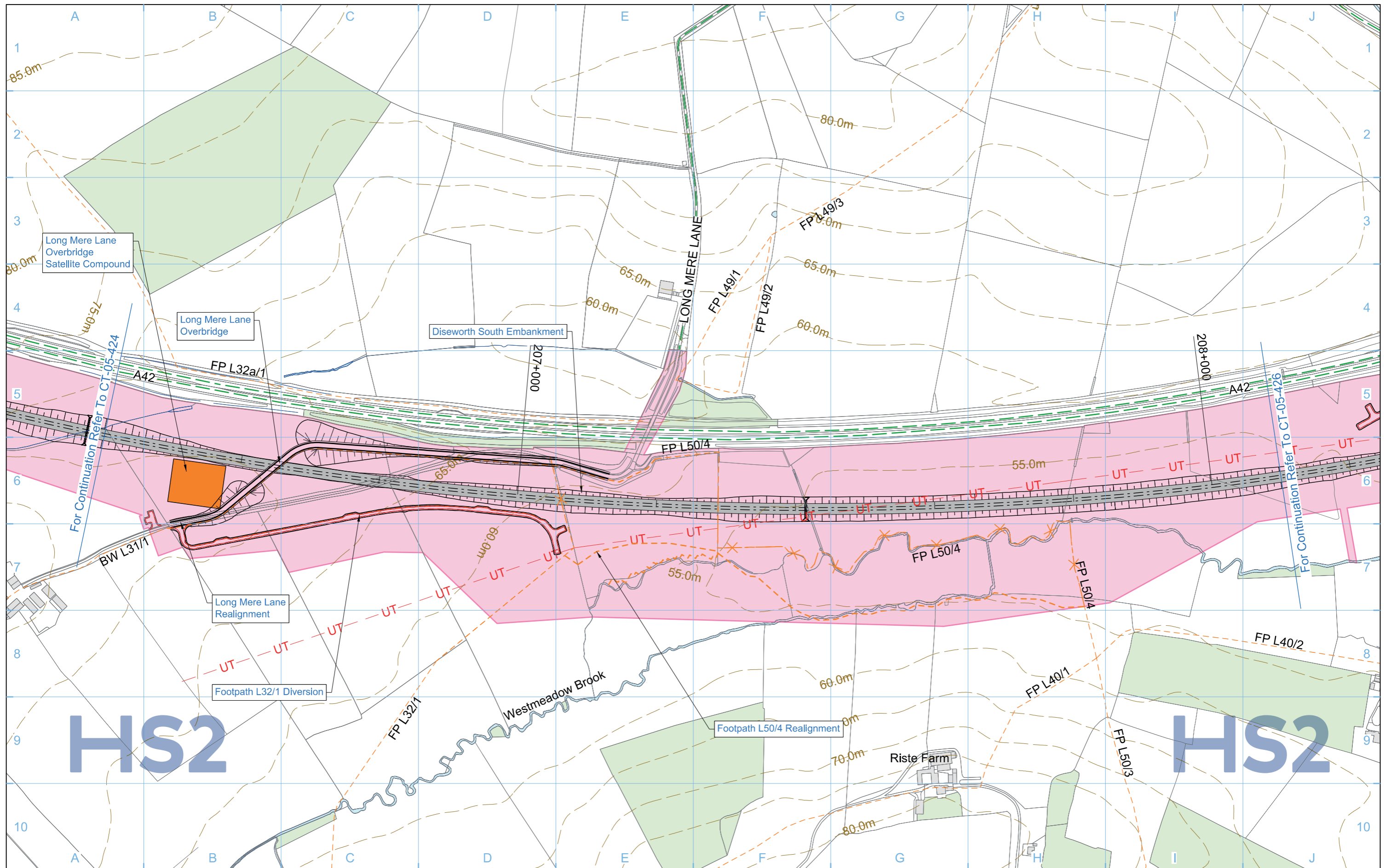
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|-------------------|--|---|--|---|--|
| Legend | | Map Information Map Number: CT-06-424 Map Name: CT-06 - Proposed Scheme WDES Community Area: LA04 Coleorton to Kegworth | | Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-627300 P05 Date: 25/07/18 | |
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| Legend | |
|--------|---|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Main construction compound |
| | Satellite construction compound |
| | Land potentially required during construction |
| | System Compounds |
| | Temporary material stockpile |
| | Temporary replacement community facility |

| | |
|--|---|
| | Community Area boundary |
| | Tunnels external extent |
| | Construction traffic route |
| | Existing public right of way (PRoW) |
| | PRoW Closure |
| | Temporary PRoW Closure |
| | Temporary PRoW diversion / realignment |
| | New, diverted or realigned PRoW |
| | Landscape earthworks |
| | Engineering earthworks |
| | Temporary highway diversion / realignment |
| | Location of major utility |
| | Rail alignment Chainage (e.g. 10+000) |

| | |
|--|---------------------------------|
| | County boundary |
| | Borough / District boundary |
| | HS2 Access road |
| | Existing watercourse |
| | 130.0m Existing contours |
| | Rail alignment formation |
| | Temporary workers accommodation |

| | |
|----------------|--|
| Map Number | CT-05-425 |
| Map Name | CT-05 - Construction Phase WDES |
| Community Area | LA04 Coleorton to Kegworth |

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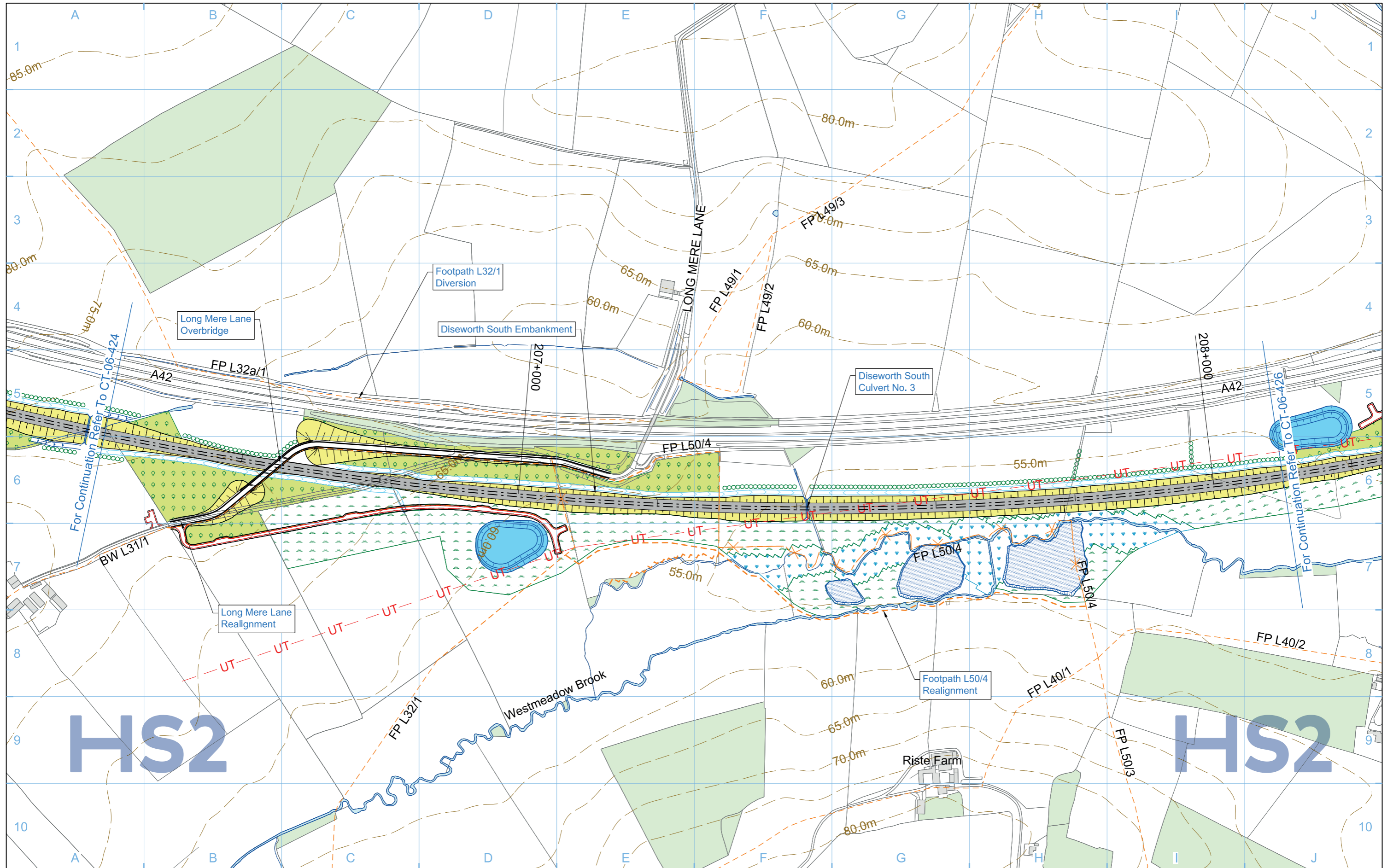
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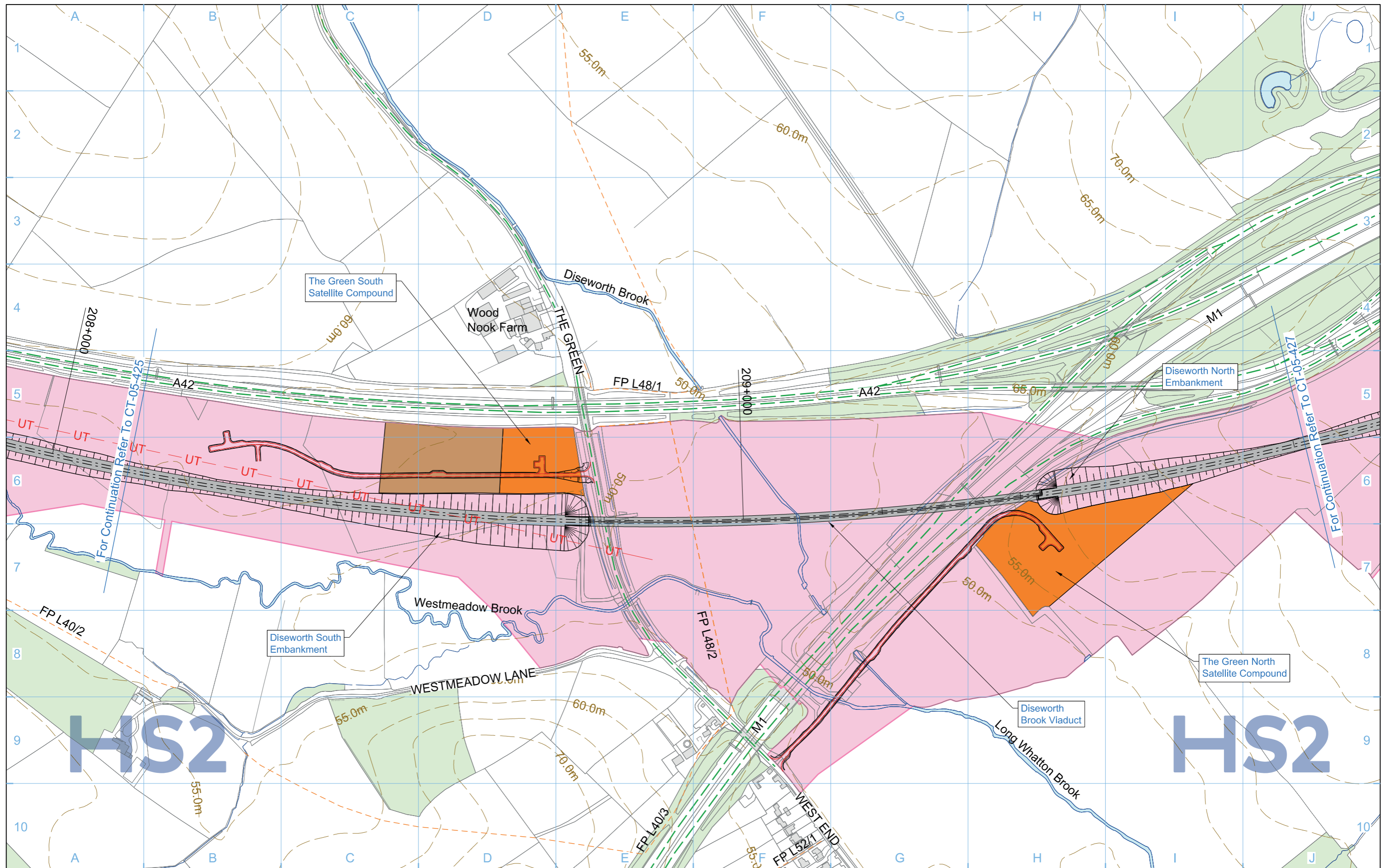
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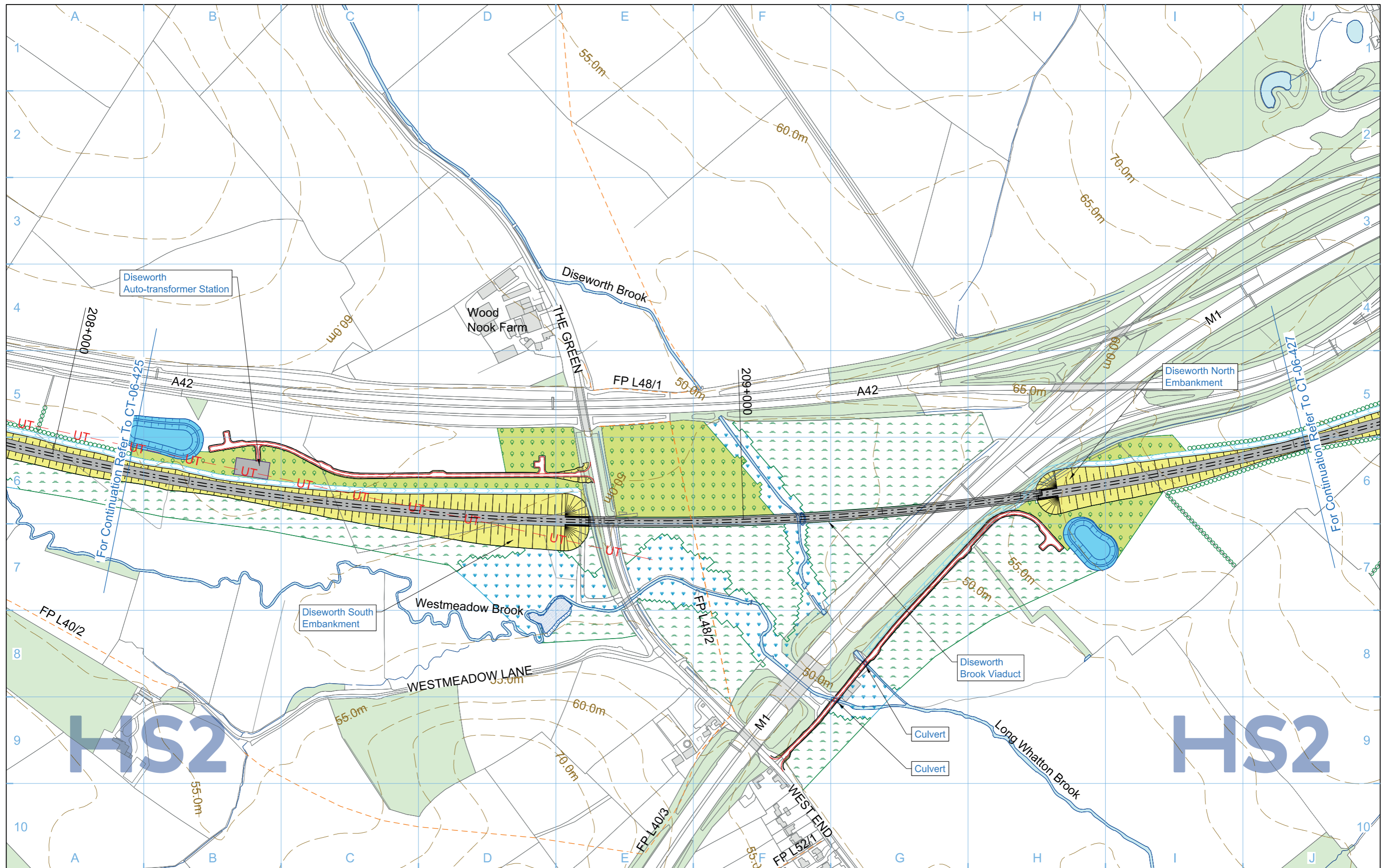
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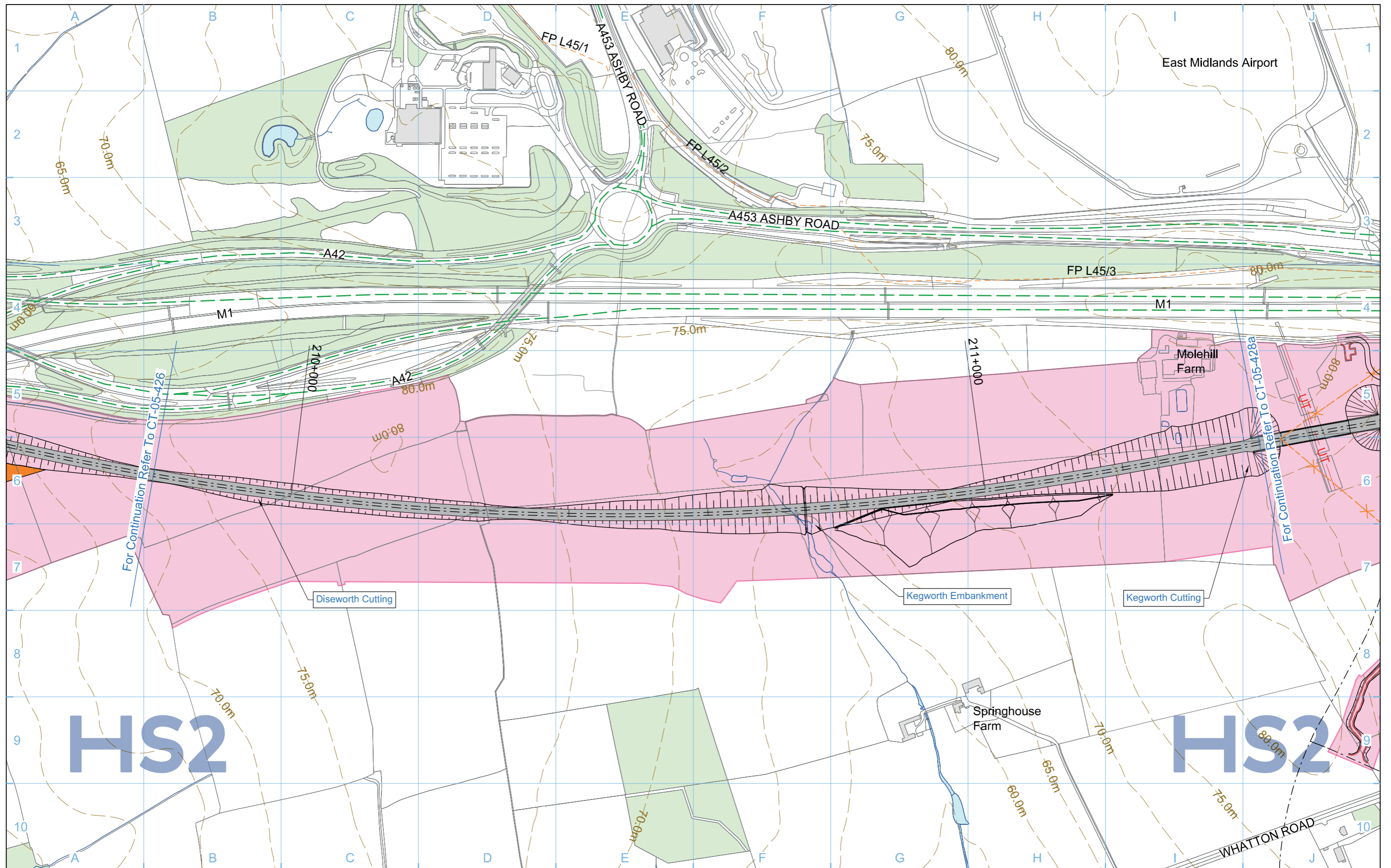
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|--|--|---|---|
| Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Electricity substation Ecological mitigation pond Balancing pond Replacement floodplain storage Woodland habitat creation Wetland habitat creation Grassland habitat creation Landscape mitigation planting (scrub / woodland) Grassed areas Public realm Engineering earthworks Landscape earthworks Rail alignment formation Tunnels external extent Community Area boundary Watercourse diversion or Existing watercourse Ditches - new Hedgerow habitat creation Location of major utility Existing public right of way (PRoW) New, diverted or realigned PRoW PRoW Closure County boundary Borough / District boundary Existing contours HS2 access road Noise fence barrier Rail alignment Chainage (e.g. 10+000) | | <p>Map Number CT-06-425</p> <p>Map Name CT-06 - Proposed Scheme WDES</p> <p>Community Area LA04 Coleorton to Kegworth</p> | <p>HS2</p> <p>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2DE02-ACI-EV-DPL-L001-627500 P05 Date: 25/07/18</p> |
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|---|--|---|--|--|--|
| Legend | | | | | |
| Map Number CT-05-426 | | Map Name CT-05 - Construction Phase WDES | | | |
| Community Area LA04 Coleorton to Kegworth | | | | <small>© Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190.</small> Doc Number: 2DE02-ACI-EV-DPL-L001-527700 P05 Date: 25/07/18 | |



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| Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Electricity substation Ecological mitigation pond Balancing pond Replacement floodplain storage | | <ul style="list-style-type: none"> Pumping Station Woodland habitat creation Wetland habitat creation Grassland habitat creation Landscape mitigation planting (scrub / woodland) Grassed areas Public realm | | <ul style="list-style-type: none"> Engineering earthworks Landscape earthworks Rail alignment formation Tunnels external extent | | <ul style="list-style-type: none"> Community Area boundary Watercourse diversion or Existing watercourse Ditches - new Hedgerow habitat creation Location of major utility (UT) Existing public right of way (PRoW) New, diverted or realigned PRoW PRoW Closure | | <ul style="list-style-type: none"> County boundary Borough / District boundary Existing contours HS2 access road Noise fence barrier Rail alignment Chainage (e.g. 10+000) | | Map Number CT-06-426 | <p>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2DE02-ACI-EV-DPL-L001-627700 P05 Date: 25/07/18</p> |
| <ul style="list-style-type: none"> Diseworth Auto-transformer Station Wood Nook Farm Diseworth South Embankment Westmeadow Brook WESTMEADOW LANE Diseworth Brook Viaduct Culvert Culvert Long Whatton Brook | | <ul style="list-style-type: none"> Diseworth North Embankment Diseworth Brook West End | | <ul style="list-style-type: none"> FP L48/1 FP L48/2 FP L40/2 FP L40/3 FP L52/1 | | <ul style="list-style-type: none"> A42 M1 | | Map Name CT-06 - Proposed Scheme WDES | | Community Area LA04 Coleorton to Kegworth | |



| Legend | |
|--------|---|
| | Depot, station, headhouse or portal building |
| | Tunnel portal |
| | Main construction compound |
| | Satellite construction compound |
| | Land potentially required during construction |
| | System Compounds |
| | Temporary material stockpile |
| | Temporary replacement community facility |

| | |
|--|--|
| | Community Area boundary |
| | Tunnels external extent |
| | Construction traffic route |
| | Existing public right of way (PRoW) |
| | PRoW Closure |
| | Temporary PRoW Closure |
| | Temporary PRoW diversion / realignment |
| | New, diverted or realigned PRoW |

| | |
|--|---|
| | Landscape earthworks |
| | Engineering earthworks |
| | Temporary highway diversion / realignment |
| | Location of major utility |
| | Rail alignment Chainage (e.g. 10+000) |

| | |
|--|---------------------------------|
| | County boundary |
| | Borough / District boundary |
| | HS2 Access road |
| | Existing watercourse |
| | Existing contours |
| | Rail alignment formation |
| | Temporary workers accommodation |

| | |
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| Map Number | CT-05-427 |
| Map Name | CT-05 - Construction Phase WDES |
| Community Area | LA04 Coleorton to Kegworth |

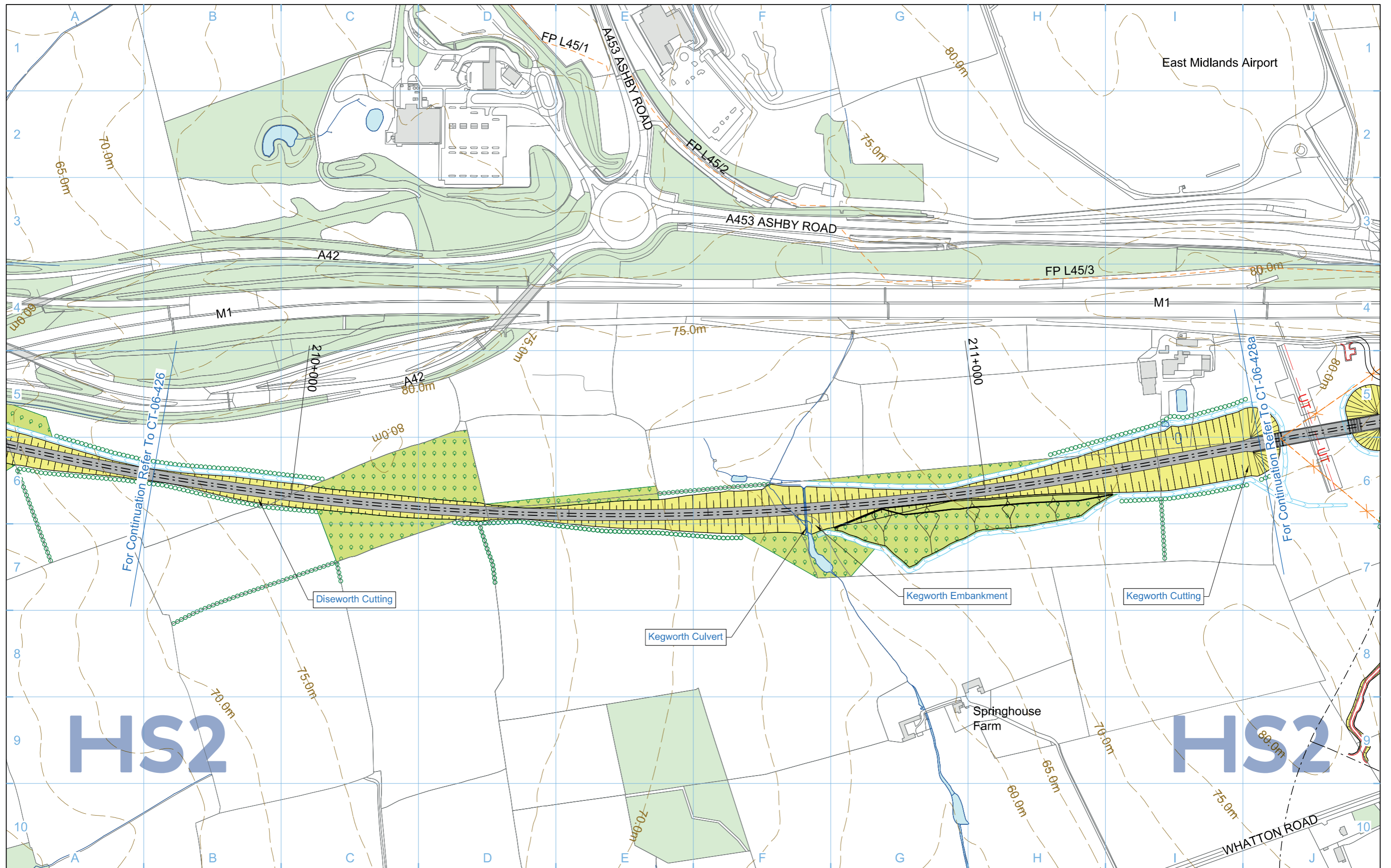
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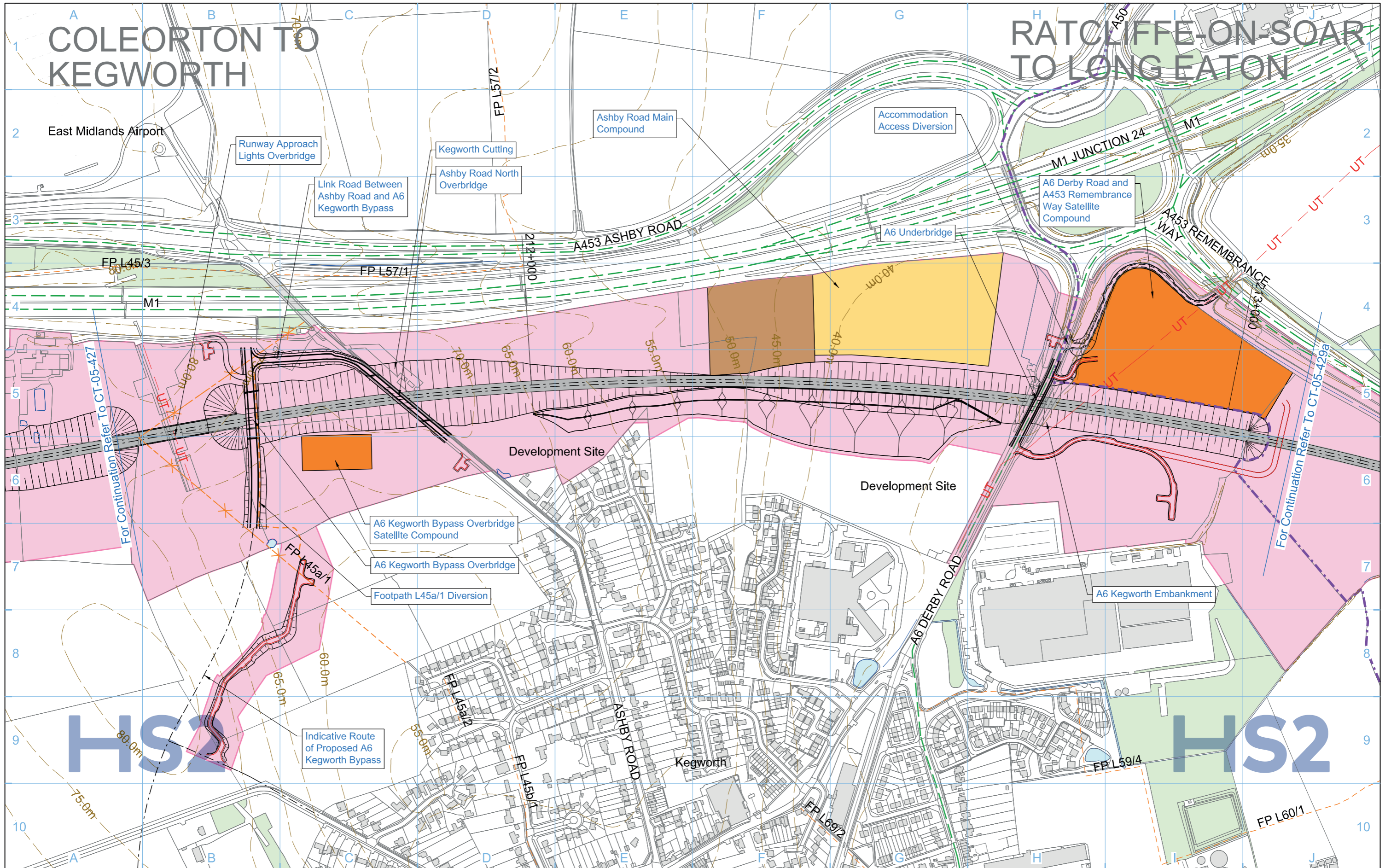
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|-------------------|--|---|--|--|--|
| Legend | | Map Information Map Number: CT-06-427 Map Name: CT-06 - Proposed Scheme WDES Community Area: LA04 Coleorton to Kegworth | | Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-627900 P05 Date: 25/07/18 | |
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COLEORTON TO KEGWORTH

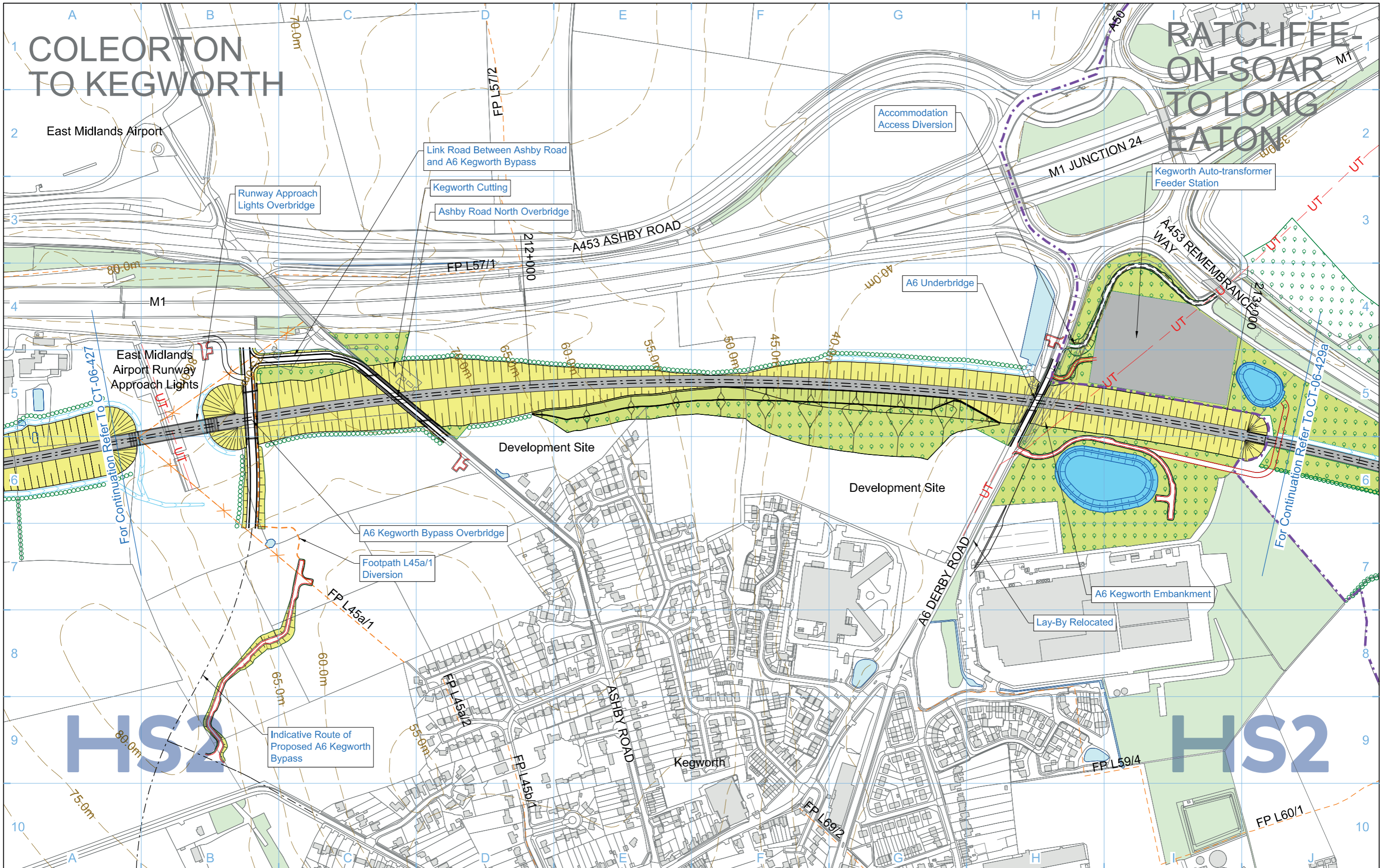
RATCLIFFE-ON-SOAR TO LONG EATON



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|---|--|--|--|---|--|
| Legend | | | | | |
| Map Number CT-05-428a | | Map Name CT-05 - Construction Phase WDES | | | |
| Community Area LA04 Coleorton to Kegworth | | | | © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-528100 P05 Date: 25/07/18 | |

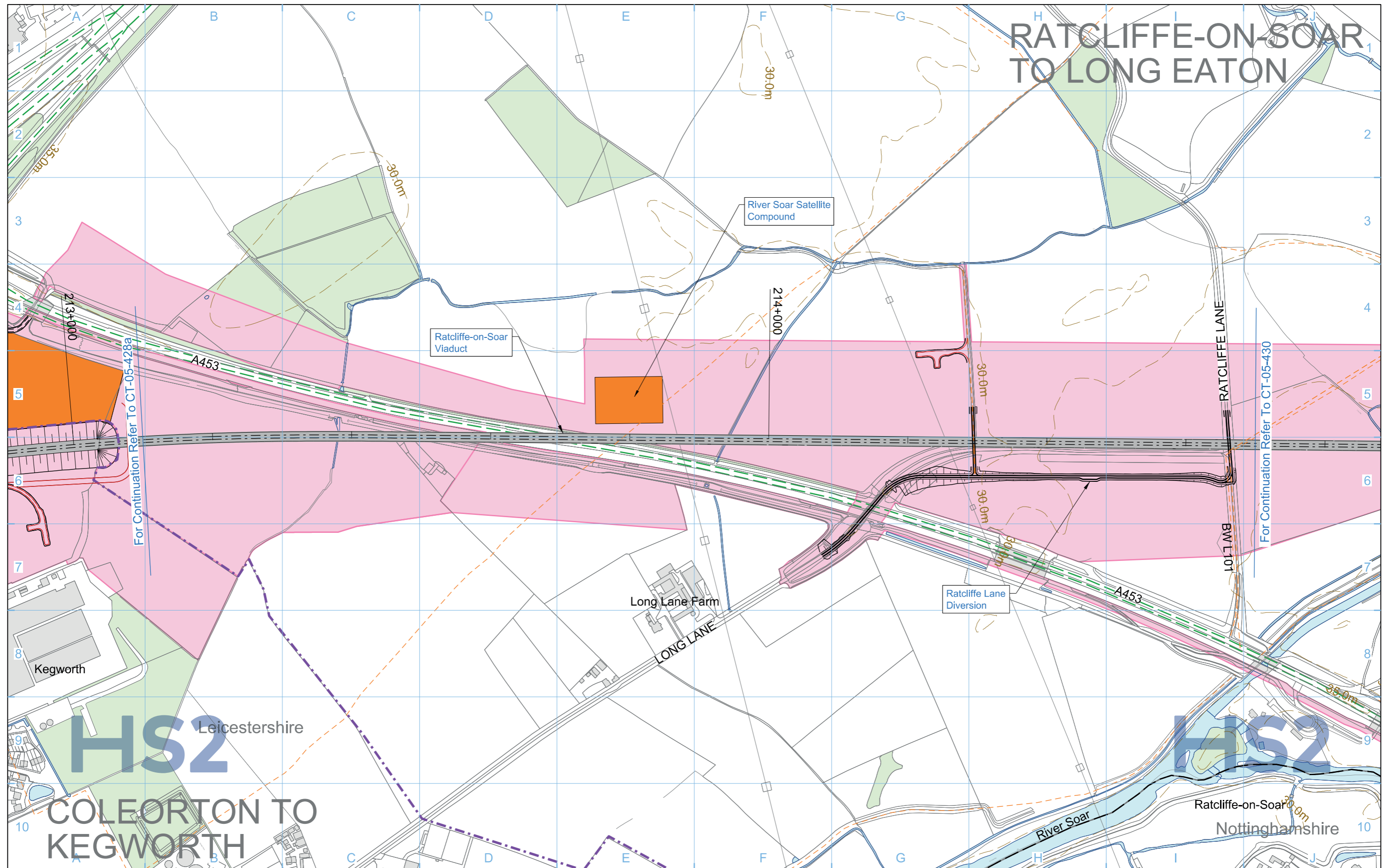
COLEORTON TO KEGWORTH

RATCLIFFE-ON-SOAR TO LONG EATON



| | | | | | |
|---|--|---|--|--|---|
| Legend Depot, station, headhouse or portal building Tunnel portal Electricity substation Ecological mitigation pond Balancing pond Replacement floodplain storage Pumping Station Woodland habitat creation Wetland habitat creation Grassland habitat creation Landscape mitigation planting (scrub / woodland) Grassed areas Public realm Engineering earthworks Landscape earthworks Rail alignment formation Community Area boundary Watercourse diversion or Existing watercourse Ditches - new Hedgerow habitat creation Location of major utility Existing public right of way (PRoW) New, diverted or realigned PRoW PRoW Closure Tunnels external extent | | County boundary Borough / District boundary Existing contours HS2 access road Noise fence barrier Rail alignment Chainage (e.g. 10+000) | | Map Number CT-06-428a Map Name CT-06 - Proposed Scheme WDES Community Area LA04 Coleorton to Kegworth | HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190. Doc Number: 2DE02-ACI-EV-DPL-L001-628100 P05 Date: 25/07/18 |
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RATCLIFFE-ON-SOAR TO LONG EATON



Legend

- Depot, station, headhouse or portal building
- Tunnel portal
- Main construction compound
- Satellite construction compound
- System Compounds
- Temporary material stockpile
- Land potentially required during construction
- Temporary replacement community facility

- Community Area boundary
- Tunnels external extent
- Construction traffic route
- Existing public right of way (PRoW)
- PRoW Closure
- Temporary PRoW Closure
- Temporary PRoW diversion / realignment
- New, diverted or realigned PRoW
- Landscape earthworks
- Engineering earthworks
- Temporary highway diversion / realignment
- Location of major utility
- Rail alignment Chainage (e.g. 10+000)

- County boundary
- Borough / District boundary
- HS2 Access road
- Existing watercourse
- Existing contours
- Rail alignment formation
- Temporary workers accommodation

Map Number: **CT-05-429a**

Map Name: **CT-05 - Construction Phase WDES**

Community Area: **LA04 Coleorton to Kegworth**

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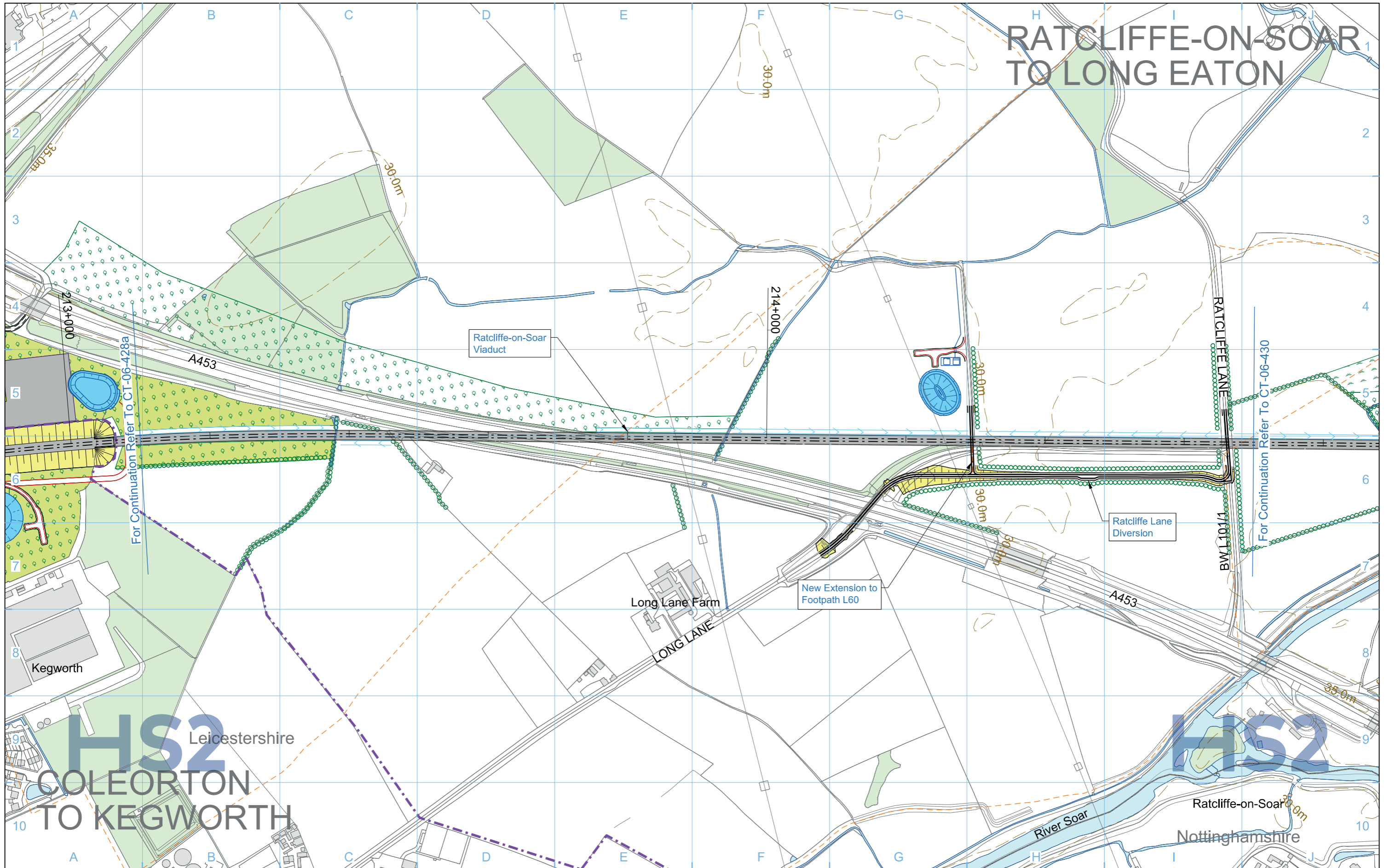
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RATCLIFFE-ON-SOAR TO LONG EATON



HS2 COLEORTON TO KEGWORTH

| | | | | | | | | | | | |
|--|--|---|--|---|--|---|--|---|--|---------------------------------|--|
| Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Electricity substation Ecological mitigation pond Balancing pond Replacement floodplain storage | | <ul style="list-style-type: none"> Pumping Station Woodland habitat creation Wetland habitat creation Grassland habitat creation Landscape mitigation planting (scrub / woodland) Grassed areas Public realm | | <ul style="list-style-type: none"> Engineering earthworks Landscape earthworks Rail alignment formation Tunnels external extent | | <ul style="list-style-type: none"> Community Area boundary Watercourse diversion or Existing watercourse Ditches - new Hedgerow habitat creation Location of major utility Existing public right of way (PRoW) New, diverted or realigned PRoW PRoW Closure | | <ul style="list-style-type: none"> County boundary Borough / District boundary Existing contours HS2 access road Noise fence barrier Rail alignment Chainage (e.g. 10+000) | | Map Number CT-06-429a | <p>Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2018. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2DE02-ACI-EV-DPL-L001-628300 P05 Date: 25/07/18</p> |
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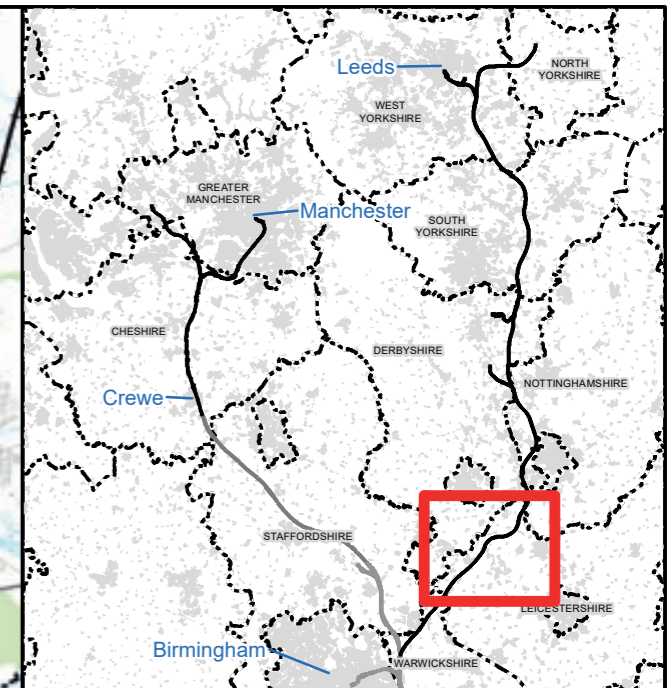
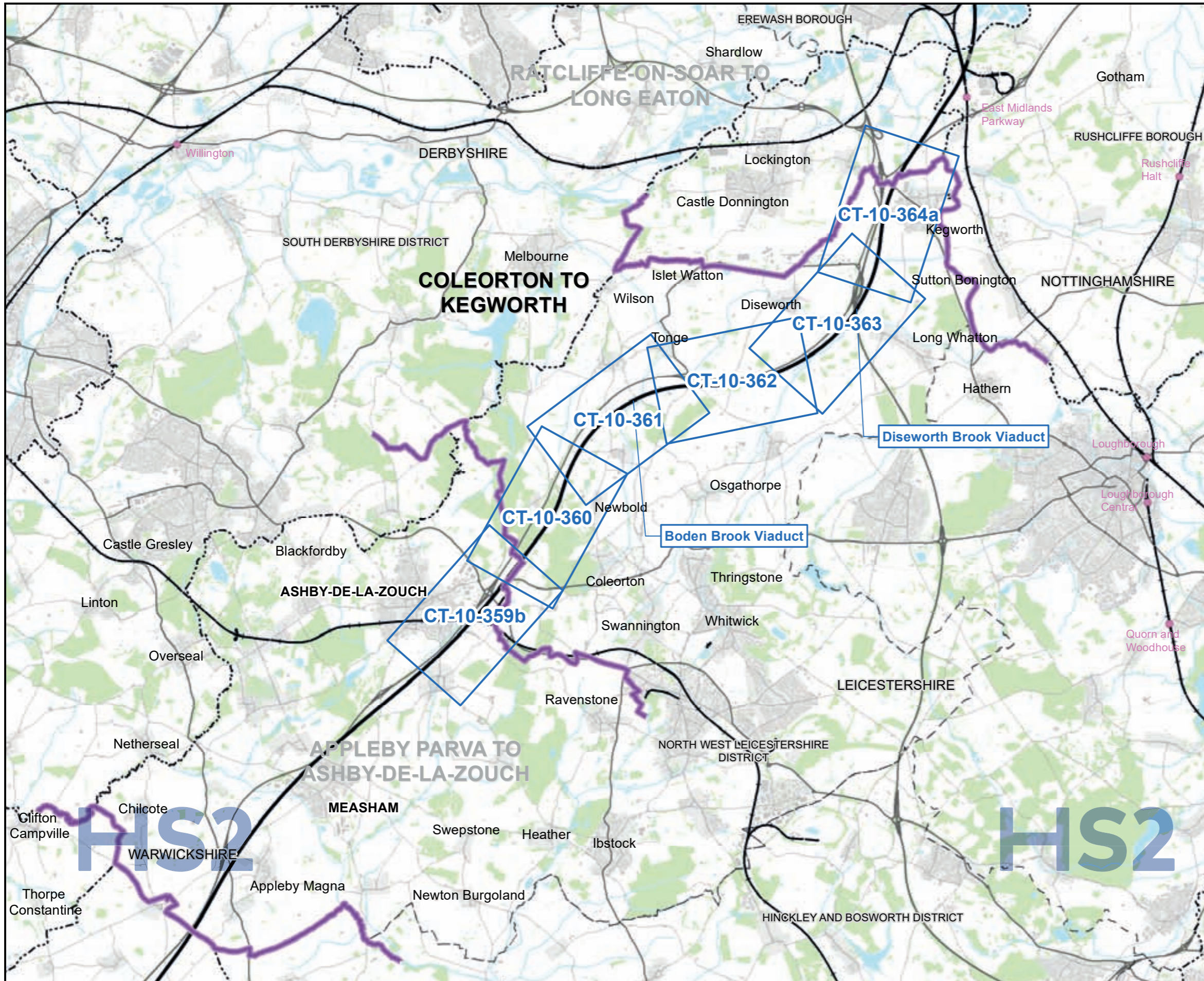
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High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

CT-10 – Environmental baseline



Map Series Information:

The Environmental Baseline maps display a range of environmental data layers.

Main Map Legend

| | | | |
|--|--|--|--|
| | Route in tunnel | | Map sheets included in this community area |
| | Route on surface | | Map sheets not included in this community area |
| | Depot, station, headhouse or portal building | | |
| | Community area boundary | | |
| | Existing railway station | | |
| | County boundary | | |
| | District/Borough boundary | | |

| | |
|------------|---|
| Map Number | CT-10-INDEX-LA04 |
| Map Name | Index Map of: Environmental Baseline WDES |
| | Community Area LA04: Coleorton to Kegworth |

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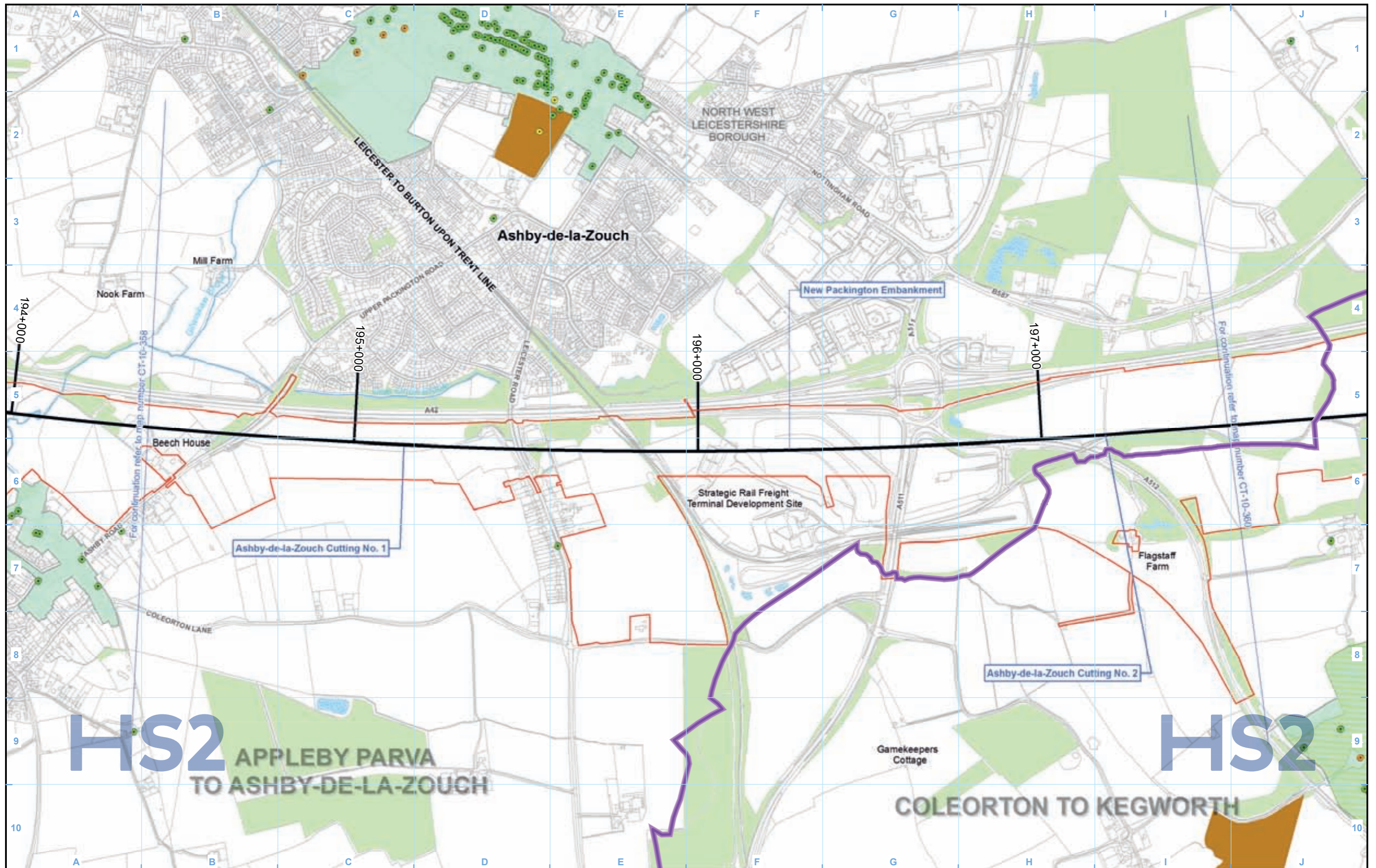
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Note: Not all data layers in the legend are represented on every map.



| Legend | |
|--------|---|
| | Route in tunnel |
| | Route on surface |
| | Depot, station, headhouse or portal building |
| | Land potentially required during construction |
| | Community area boundary |
| | County boundary |
| | District/Borough boundary |
| | Watercourse |
| | Water body |
| | Woodland |
| | Conservation areas |
| | Scheduled monument |
| | Listed building grade I |
| | Listed building grade II |
| | Listed building grade II* |
| | Registered park or garden |
| | Special Protection Area (SPA) |
| | Special Area of Conservation (SAC) |
| | Site of Special Scientific Interest (SSSI) |
| | National Nature Reserve (NNR) |
| | Local Nature Reserve (LNR) |
| | Local Wildlife Site (LWS) |
| | Ancient Woodland Inventory Sites (AWIS) |
| | Ramsar Site - Wetland of International Importance |

| | |
|------------|---|
| Map Number | CT-10-359b |
| Map Name | Environmental Baseline WDES |
| | Community Area LA04: Coleorton to Kegworth |

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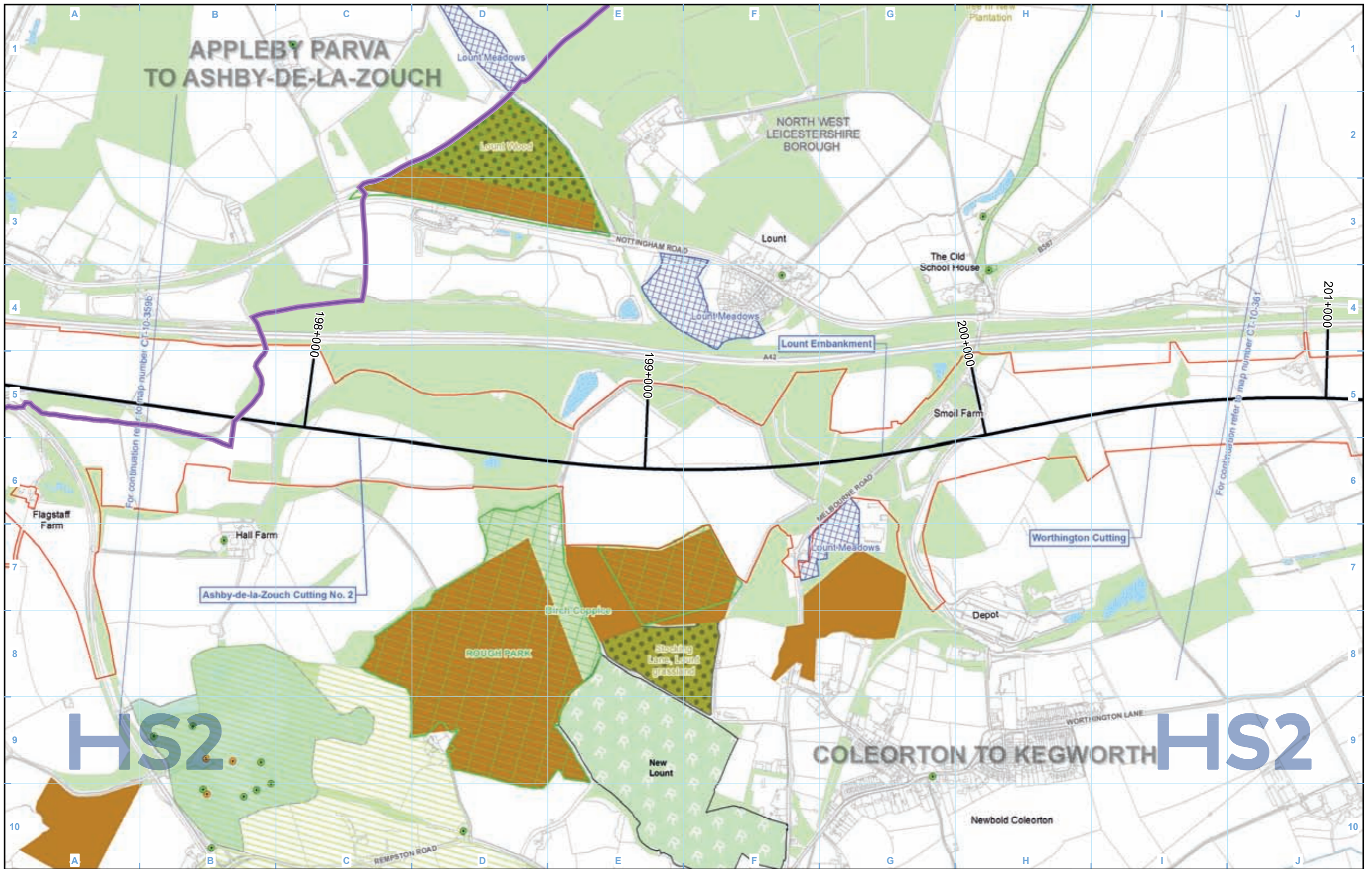
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| Legend | |
|---|---|
| Route in tunnel | Watercourse |
| Route on surface | Water body |
| Depot, station, headhouse or portal building | Woodland |
| Land potentially required during construction | Conservation areas |
| Community area boundary | Scheduled monument |
| County boundary | Listed building grade I |
| District/Borough boundary | Listed building grade II |
| | Listed building grade II* |
| | Registered park or garden |
| Special Protection Area (SPA) | Special Area of Conservation (SAC) |
| Site of Special Scientific Interest (SSSI) | National Nature Reserve (NNR) |
| Local Nature Reserve (LNR) | Local Wildlife Site (LWS) |
| Ancient Woodland Inventory Sites (AWIS) | Ramsar Site - Wetland of International Importance |

| | |
|------------|--|
| Map Number | CT-10-360 |
| Map Name | Environmental Baseline WDES |
| | Community Area LA04: Coleorton to Kegworth |

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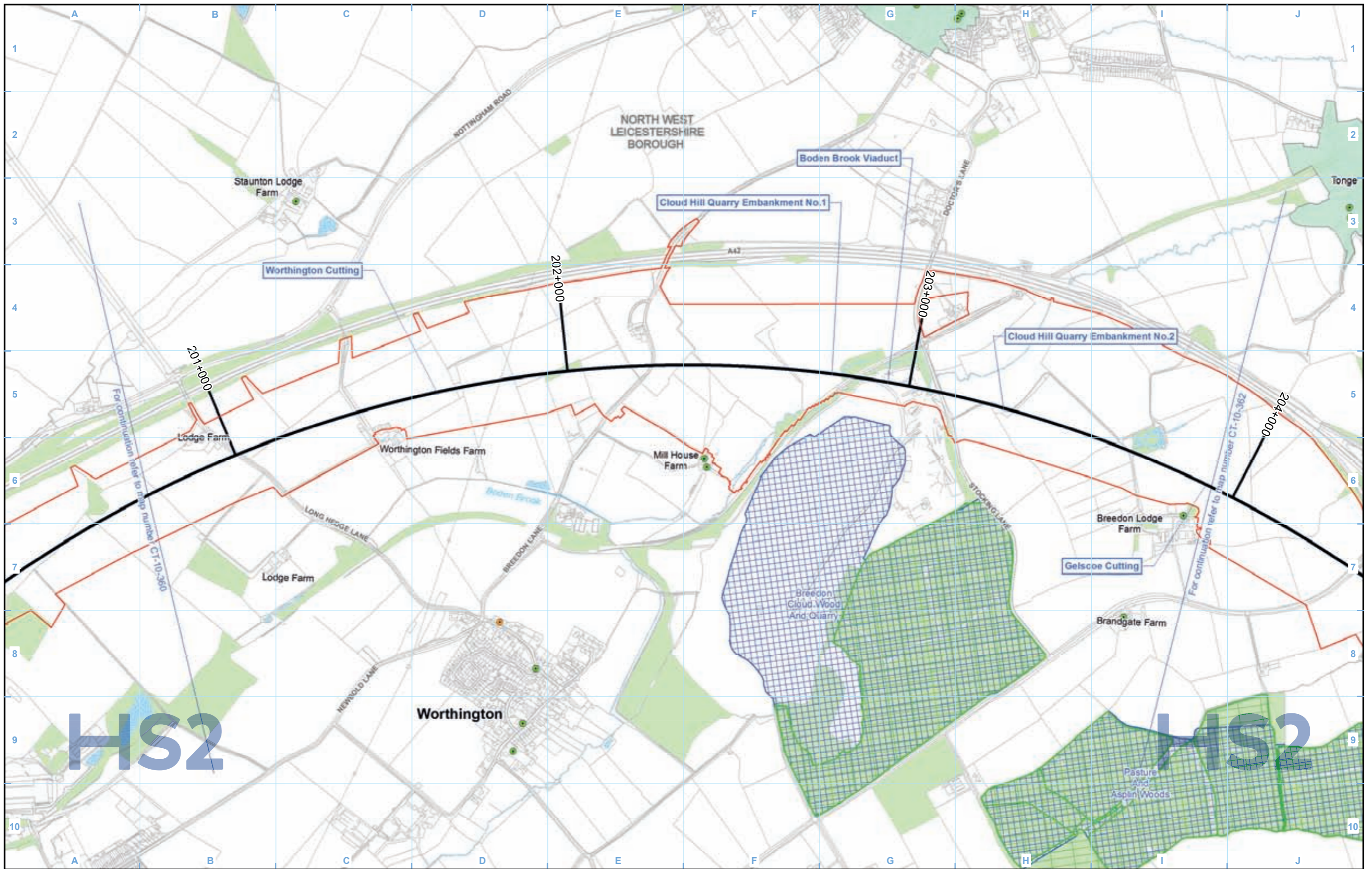
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| Legend | |
|---|---|
| Route in tunnel | Watercourse |
| Route on surface | Water body |
| Depot, station, headhouse or portal building | Woodland |
| Land potentially required during construction | Conservation areas |
| Community area boundary | Scheduled monument |
| County boundary | Listed building grade I |
| District/Borough boundary | Listed building grade II |
| | Listed building grade II* |
| | Registered park or garden |
| Special Protection Area (SPA) | Special Area of Conservation (SAC) |
| Site of Special Scientific Interest (SSSI) | National Nature Reserve (NNR) |
| Local Nature Reserve (LNR) | Local Wildlife Site (LWS) |
| Ancient Woodland Inventory Sites (AWIS) | Ramsar Site - Wetland of International Importance |

| | |
|------------|---|
| Map Number | CT-10-361 |
| Map Name | Environmental Baseline WDES |
| | Community Area LA04: Coleorton to Kegworth |

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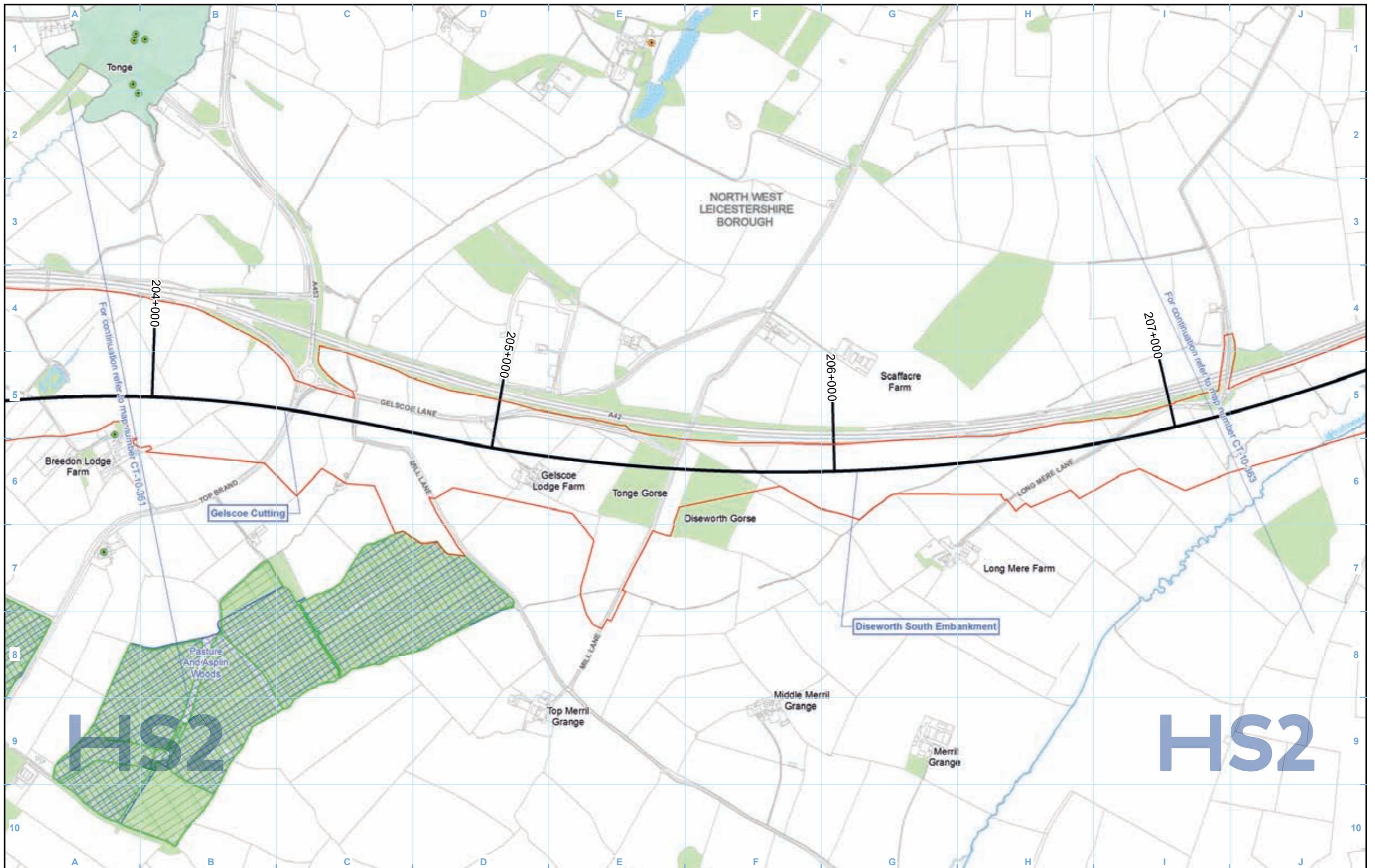
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| Legend | |
|--------|---|
| | Route in tunnel |
| | Route on surface |
| | Depot, station, headhouse or portal building |
| | Land potentially required during construction |
| | Community area boundary |
| | County boundary |
| | District/Borough boundary |
| | Watercourse |
| | Water body |
| | Woodland |
| | Conservation areas |
| | Scheduled monument |
| | Listed building grade I |
| | Listed building grade II |
| | Listed building grade II* |
| | Registered park or garden |
| | Special Protection Area (SPA) |
| | Special Area of Conservation (SAC) |
| | Site of Special Scientific Interest (SSSI) |
| | National Nature Reserve (NNR) |
| | Local Nature Reserve (LNR) |
| | Local Wildlife Site (LWS) |
| | Ancient Woodland Inventory Sites (AWIS) |
| | Ramsar Site - Wetland of International Importance |

| | |
|--|-----------------------------|
| Map Number | CT-10-362 |
| Map Name | Environmental Baseline WDES |
| Community Area LA04: Coleorton to Kegworth | |

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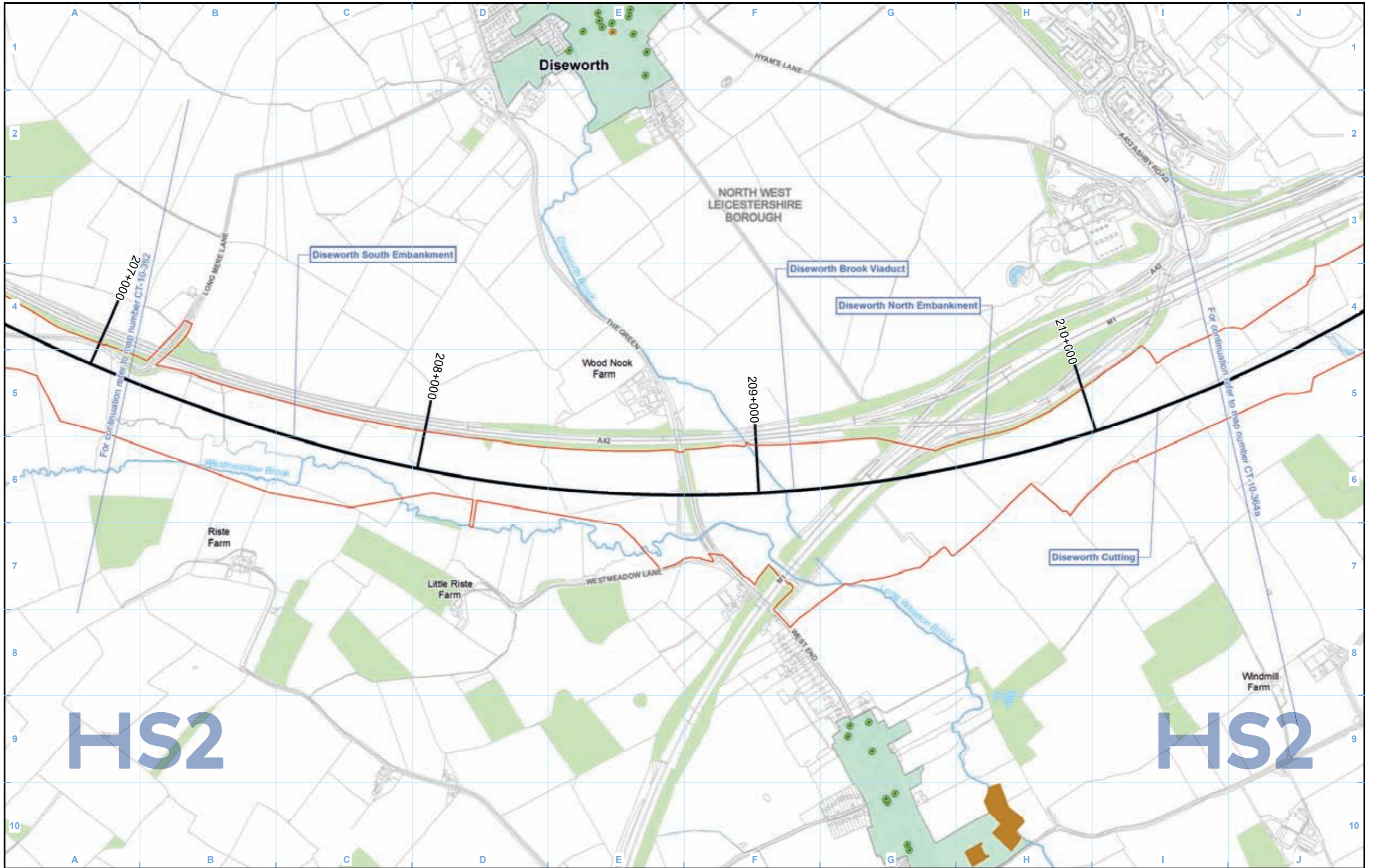
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| Legend | |
|--------|---|
| | Route in tunnel |
| | Route on surface |
| | Depot, station, headhouse or portal building |
| | Land potentially required during construction |
| | Community area boundary |
| | County boundary |
| | District/Borough boundary |
| | Watercourse |
| | Water body |
| | Woodland |
| | Conservation areas |
| | Scheduled monument |
| | Listed building grade I |
| | Listed building grade II |
| | Listed building grade II* |
| | Registered park or garden |
| | Special Protection Area (SPA) |
| | Special Area of Conservation (SAC) |
| | Site of Special Scientific Interest (SSSI) |
| | National Nature Reserve (NNR) |
| | Local Nature Reserve (LNR) |
| | Local Wildlife Site (LWS) |
| | Ancient Woodland Inventory Sites (AWIS) |
| | Ramsar Site - Wetland of International Importance |

| | |
|------------|---|
| Map Number | CT-10-363 |
| Map Name | Environmental Baseline WDES |
| | Community Area LA04: Coleorton to Kegworth |

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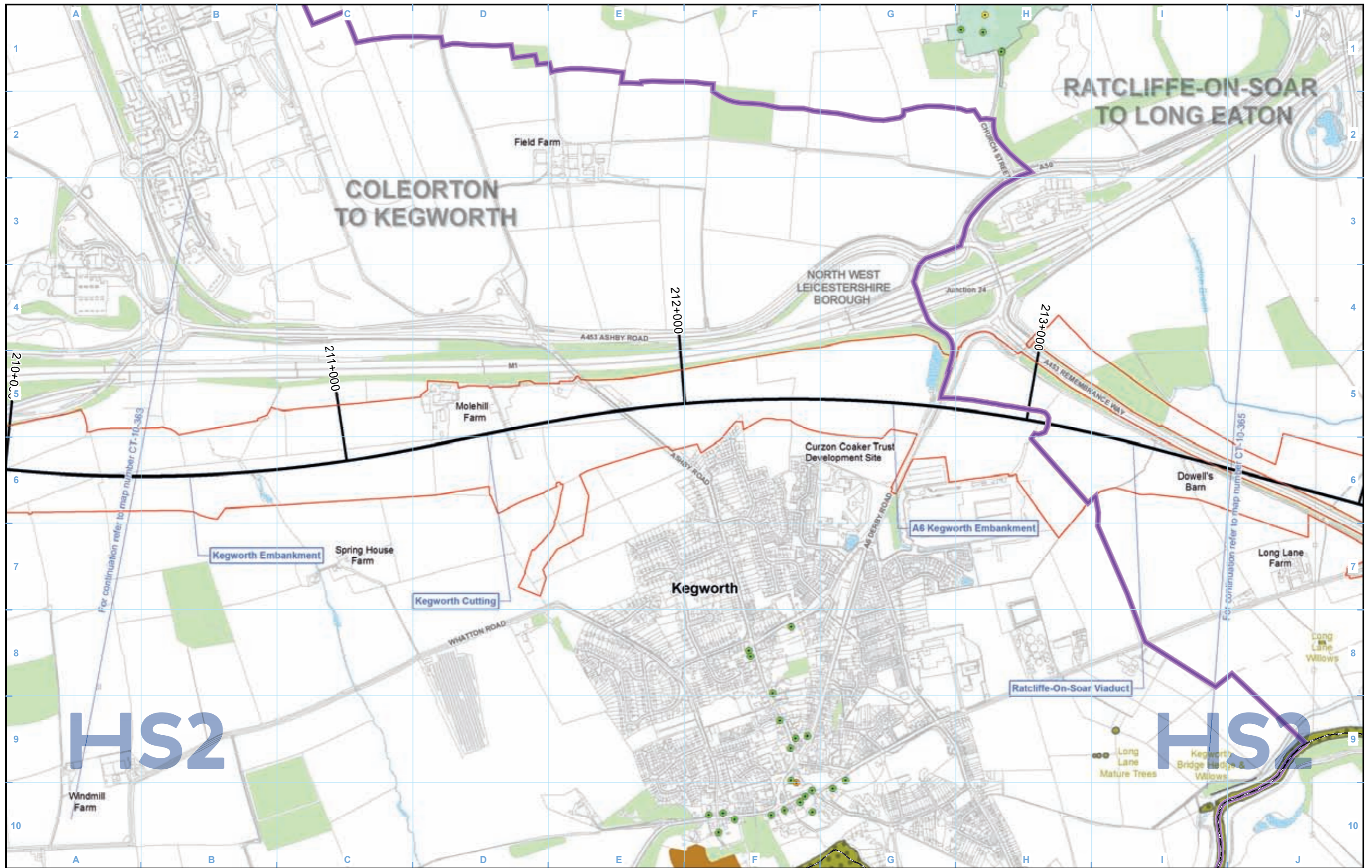
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| Legend | |
|--------|---|
| | Route in tunnel |
| | Route on surface |
| | Depot, station, headhouse or portal building |
| | Land potentially required during construction |
| | Community area boundary |
| | County boundary |
| | District/Borough boundary |
| | Watercourse |
| | Water body |
| | Woodland |
| | Conservation areas |
| | Scheduled monument |
| | Listed building grade I |
| | Listed building grade II |
| | Listed building grade II* |
| | Registered park or garden |
| | Special Protection Area (SPA) |
| | Special Area of Conservation (SAC) |
| | Site of Special Scientific Interest (SSSI) |
| | National Nature Reserve (NNR) |
| | Local Nature Reserve (LNR) |
| | Local Wildlife Site (LWS) |
| | Ancient Woodland Inventory Sites (AWIS) |
| | Ramsar Site - Wetland of International Importance |

| | |
|--|-----------------------------|
| Map Number | CT-10-364a |
| Map Name | Environmental Baseline WDES |
| Community Area LA04: Coleorton to Kegworth | |

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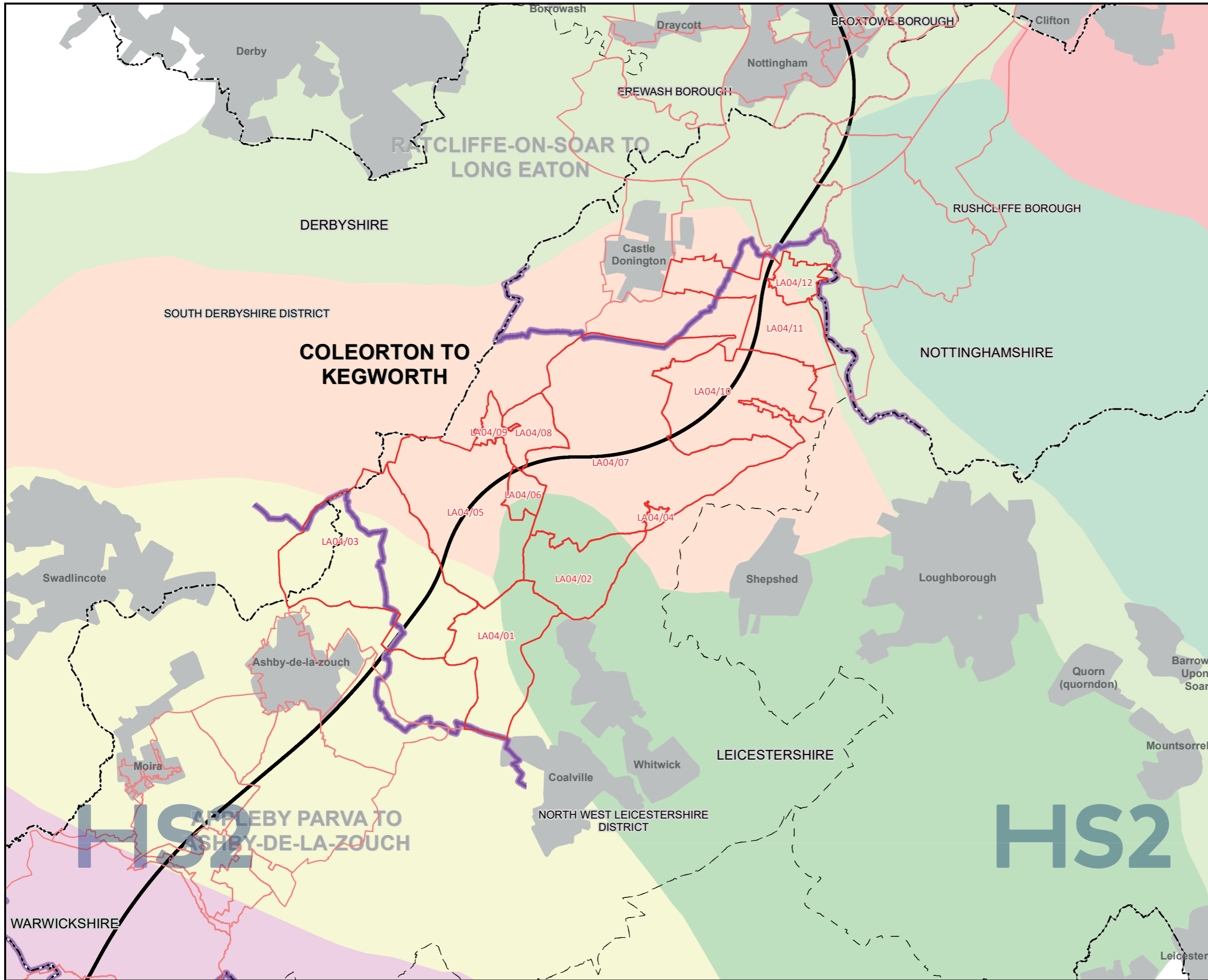
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High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

LV-00 – Route-wide Landscape Character Areas and
National Character Areas



- Landscape Character Areas**
- LA04/01 Coleorton Historic Settlements and Enclosures
 - LA04/02 Osgathorpe Village Farmlands
 - LA04/03 Calke Wooded Parklands
 - LA04/04 Belton Village
 - LA04/05 Newbold Village Farmlands
 - LA04/06 Cloud Hill Quarry
 - LA04/07 Belton Village Wooded Farmlands
 - LA04/08 Tonge Village Farmlands
 - LA04/09 Breedon on the Hill Village
 - LA04/10 Diseworth Village Farmlands
 - LA04/11 Kegworth Farmlands
 - LA04/12 Kegworth Urban Area

Legend

| | | | |
|---------------------------|---|---|-------------------------|
| Route in tunnel | Landscape Character Area boundary (included in this community area) | Charnwood | Melbourne Parklands |
| Route on surface | Landscape Character Area boundary (not included in this community area) | Leicestershire and Nottinghamshire Wolds | Trent Valley Washlands |
| Community area boundary | | Leicestershire and South Derbyshire Coalfield | Trent and Belvoir Vales |
| County boundary | | Mease/Sence Lowlands | |
| District/Borough boundary | | | |
| Large urban area | | | |

Map Number: LV-00-312

Map Name: Route Wide Landscape Character Areas and National Character Areas WDES

Community Area LA04: Coleorton to Kegworth

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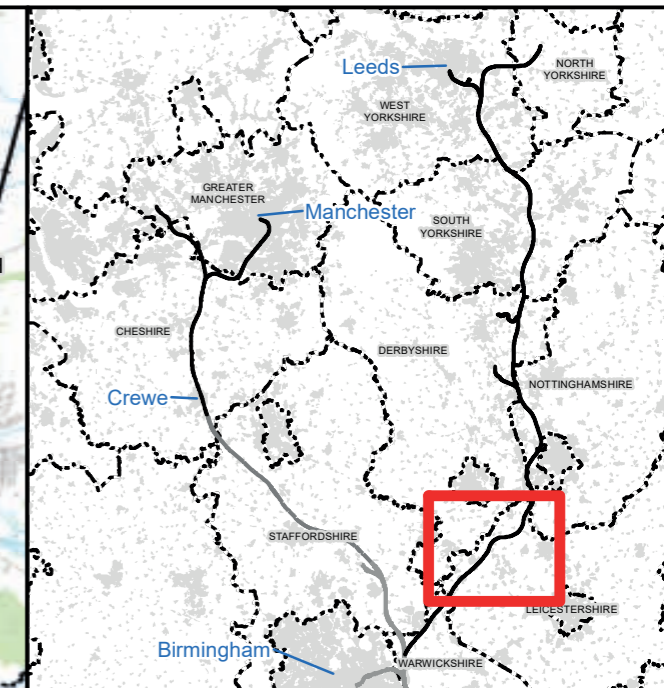
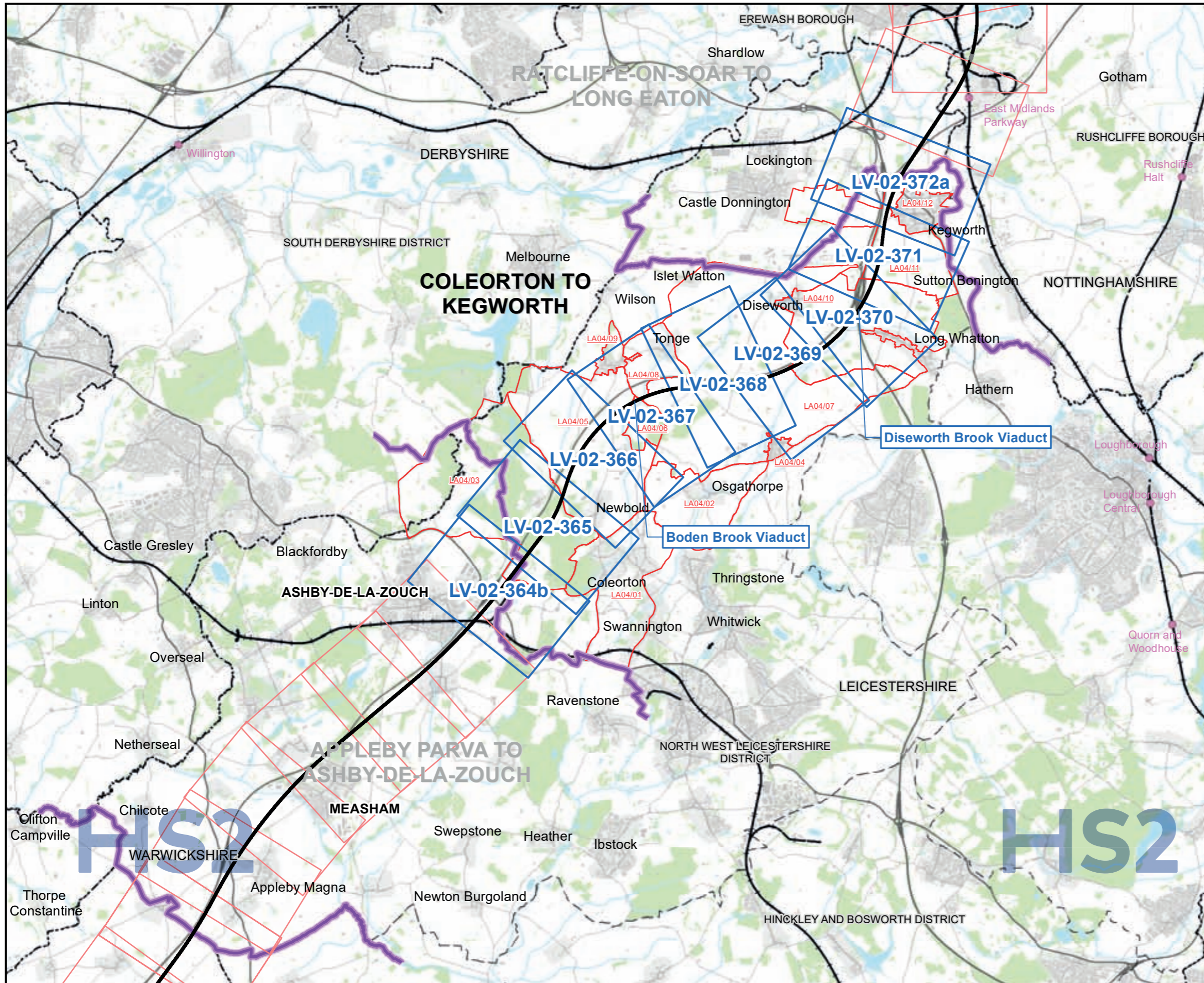
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High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

LV-02 – Construction Phase Significantly Affected Viewpoints



Map Series Information:

Maps showing the landscape character areas that have been considered for assessment and illustrating significant residual effects during construction and operation.

| LCA No. | LCA Name |
|---------|---|
| LA04/01 | Coleorton Historic Settlements and Enclosures |
| LA04/02 | Osgathorpe Village Farmlands |
| LA04/03 | Calke Wooded Parklands |
| LA04/04 | Belton Village |
| LA04/05 | Newbold Village Farmlands |
| LA04/06 | Cloud Hill Quarry |
| LA04/07 | Belton Village Wooded Farmlands |
| LA04/08 | Tonge Village Farmlands |
| LA04/09 | Breedon on the Hill Village |
| LA04/10 | Diseworth Village Farmlands |
| LA04/11 | Kegworth Farmlands |
| LA04/12 | Kegworth Urban Area |

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Landscape Character Area boundary
- Map sheets included in this community area
- Map sheets not included in this community area
- LA01/01 Landscape Character Area Number

| | |
|------------|--|
| Map Number | LV-02-INDEX-LA04 |
| Map Name | Index Map of: Landscape Character Areas WDES |
| | Community Area LA04: Coleorton to Kegworth |

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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

Landscape character areas (LCA)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

| | |
|----------------------|-----------------------------------|
| Map Number | LV-02-364b |
| Map Name | Landscape Character Areas WDES |
| Community Area LA04: | Coleorton to Kegworth |

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Date: 12/07/18



Calke Wooded Parklands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Newbold Village Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Calke Wooded Parklands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Packinton Enclosed Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

Landscape character areas (LCA)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number LV-02-365

Map Name
**Landscape Character Areas
 WDES**

Community Area LA04:
 Coleorton to Kegworth

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Date: 31/07/18



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Landscape character areas (LCA)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number LV-02-366

Map Name
**Landscape Character Areas
WDES**

Community Area LA04:
Coleorton to Kegworth

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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Landscape character areas (LCA)

- Engineering earthworks:
- Non engineering earthworks:

Map Number: LV-02-367
 Map Name: Landscape Character Areas WDES
 Community Area LA04: Coleorton to Kegworth

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 Date: 31/07/18



Belton Village Wooded Farmlands LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1:
 Operation year 15:

Belton Village Wooded Farmlands LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1:
 Operation year 15:

Tonge Village Farmlands LCA
 Significantly affected during -
 Construction: No
 Operation year 1: No
 Operation year 15: No

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Landscape character areas (LCA)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number: LV-02-368

Map Name: **Landscape Character Areas WDES**

Community Area LA04:
 Coleorton to Kegworth

HS2

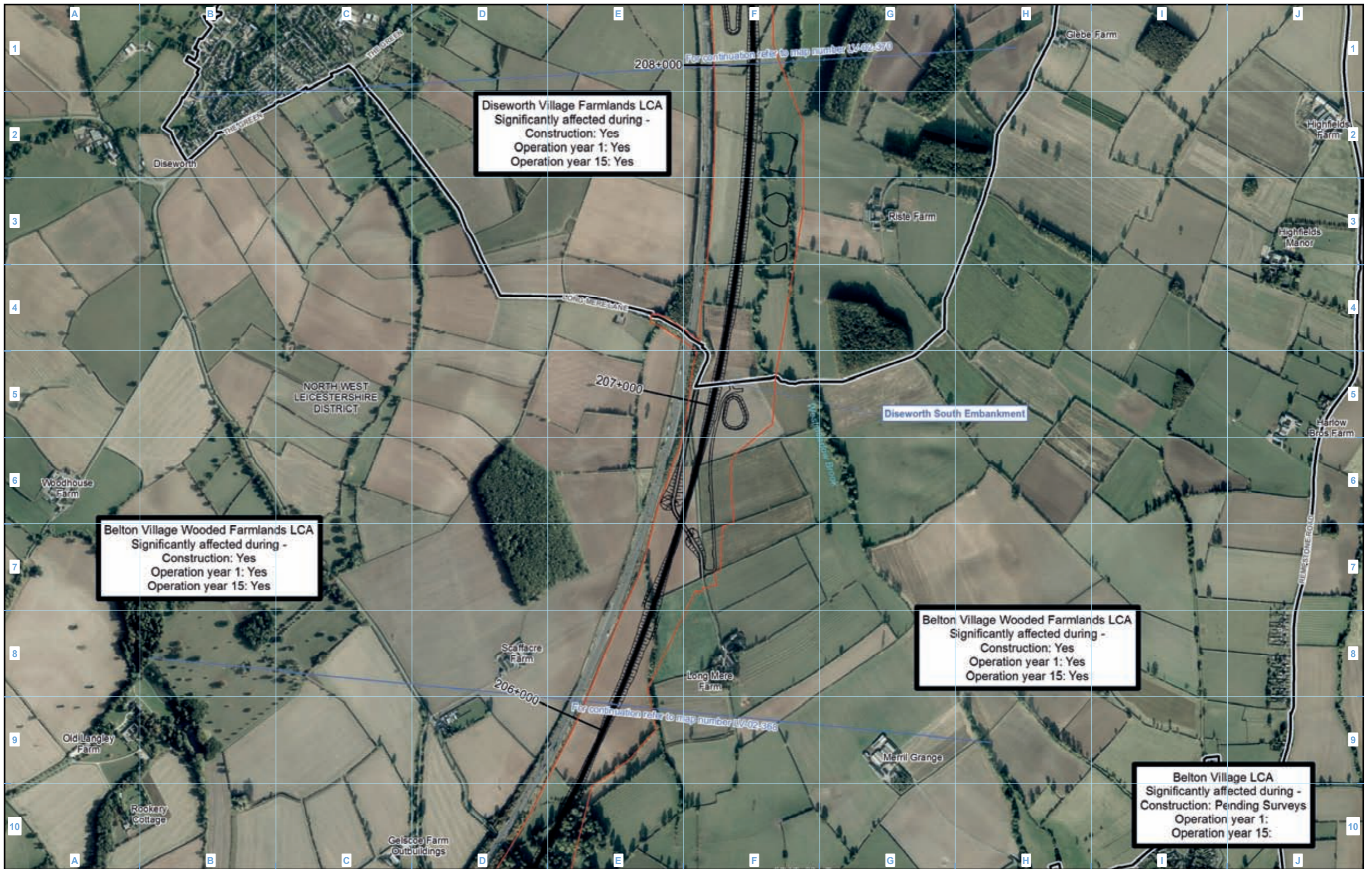
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Diseworth Village Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Belton Village Wooded Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Belton Village Wooded Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Belton Village LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1:
 Operation year 15:

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

Landscape character areas (LCA)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number LV-02-369

Map Name
**Landscape Character Areas
 WDES**

Community Area LA04:
 Coleorton to Kegworth



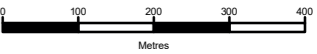
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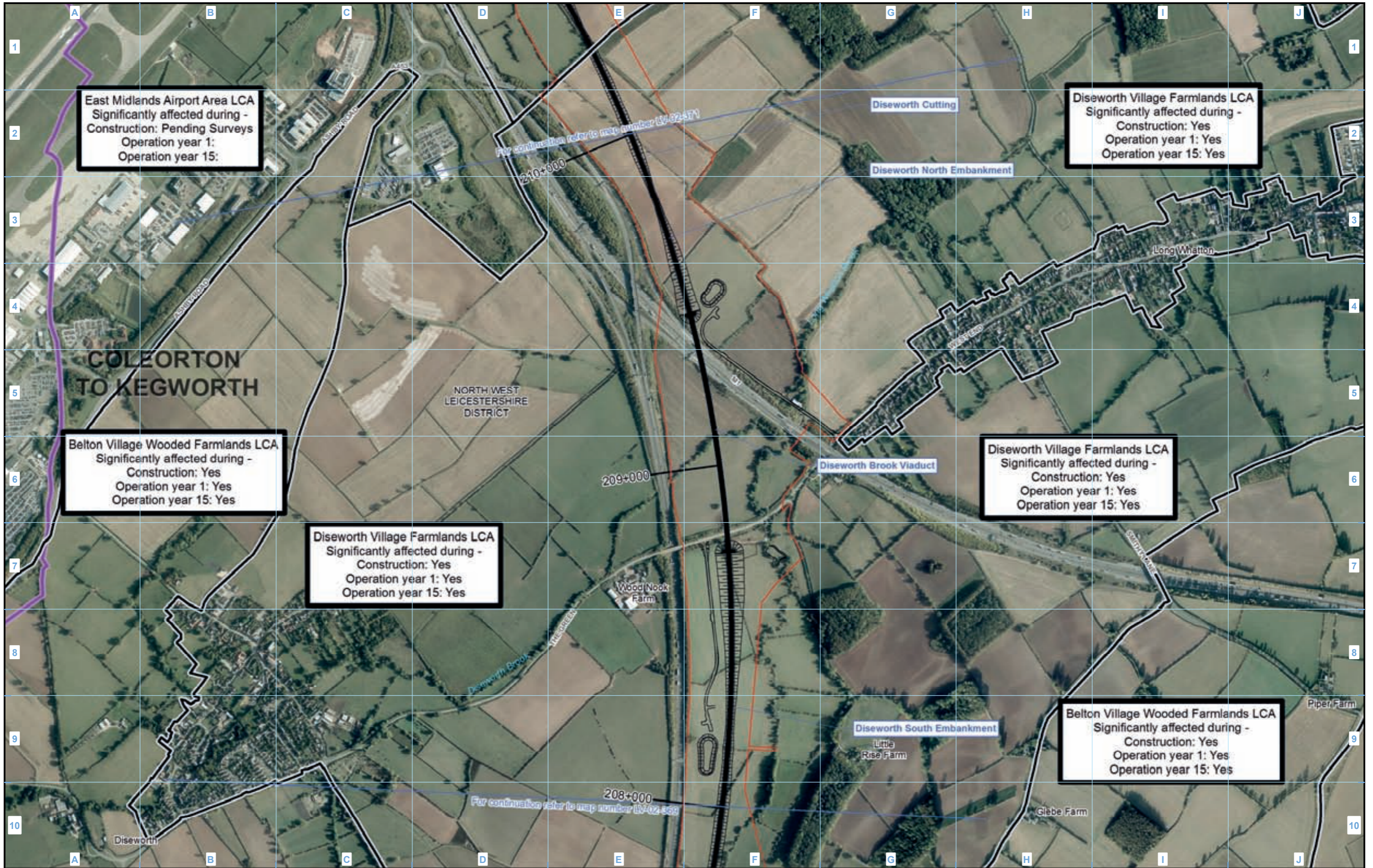
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Landscape character areas (LCA)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number LV-02-370

Map Name
**Landscape Character Areas
WDES**

Community Area LA04:
Coleorton to Kegworth

HS2

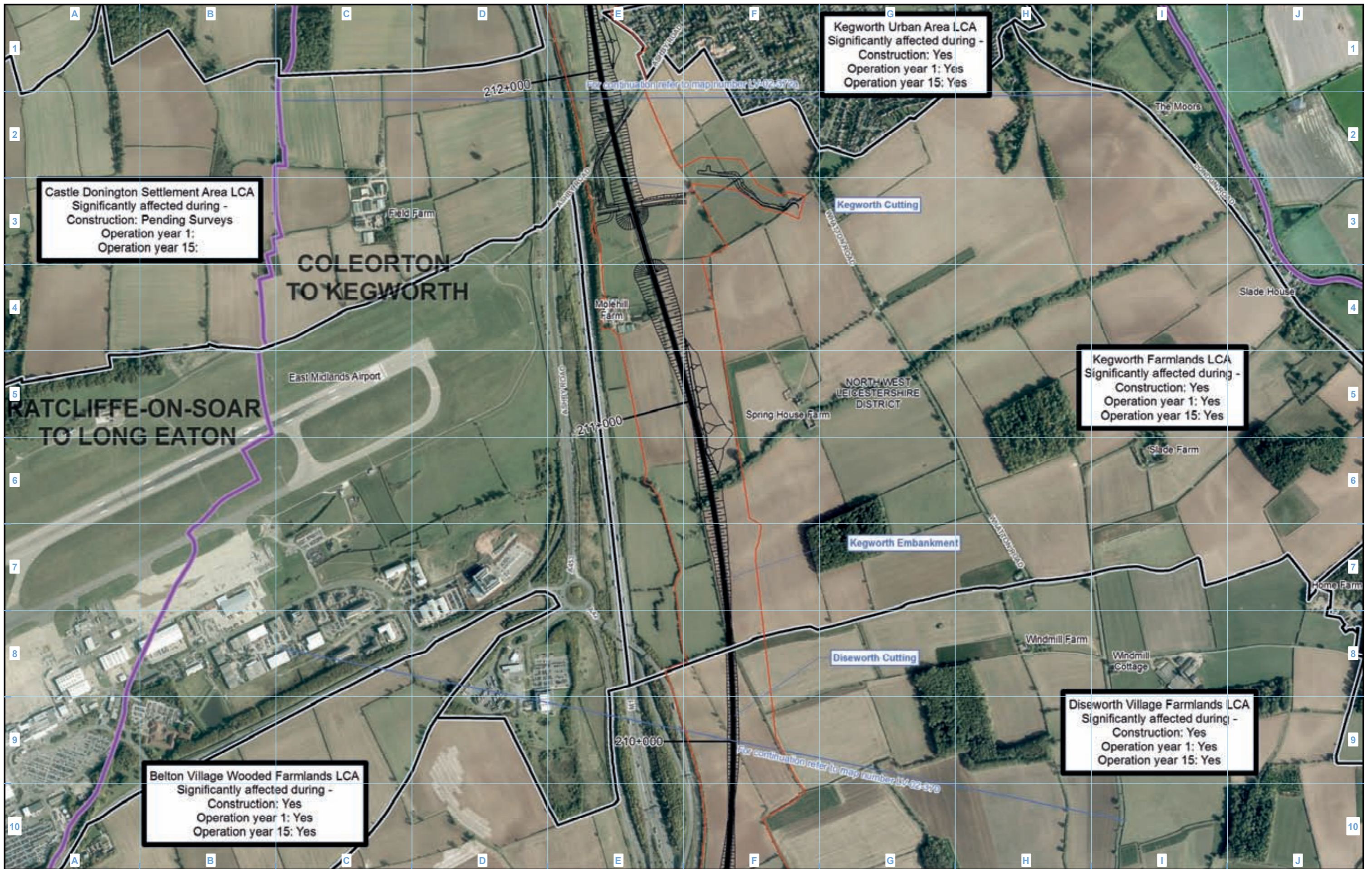
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Castle Donington Settlement Area LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1: Yes
 Operation year 15: Yes

Kegworth Urban Area LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Kegworth Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Diseworth Village Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Belton Village Wooded Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

Landscape character areas (LCA)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number LV-02-371

Map Name
**Landscape Character Areas
 WDES**

Community Area LA04:
 Coleorton to Kegworth

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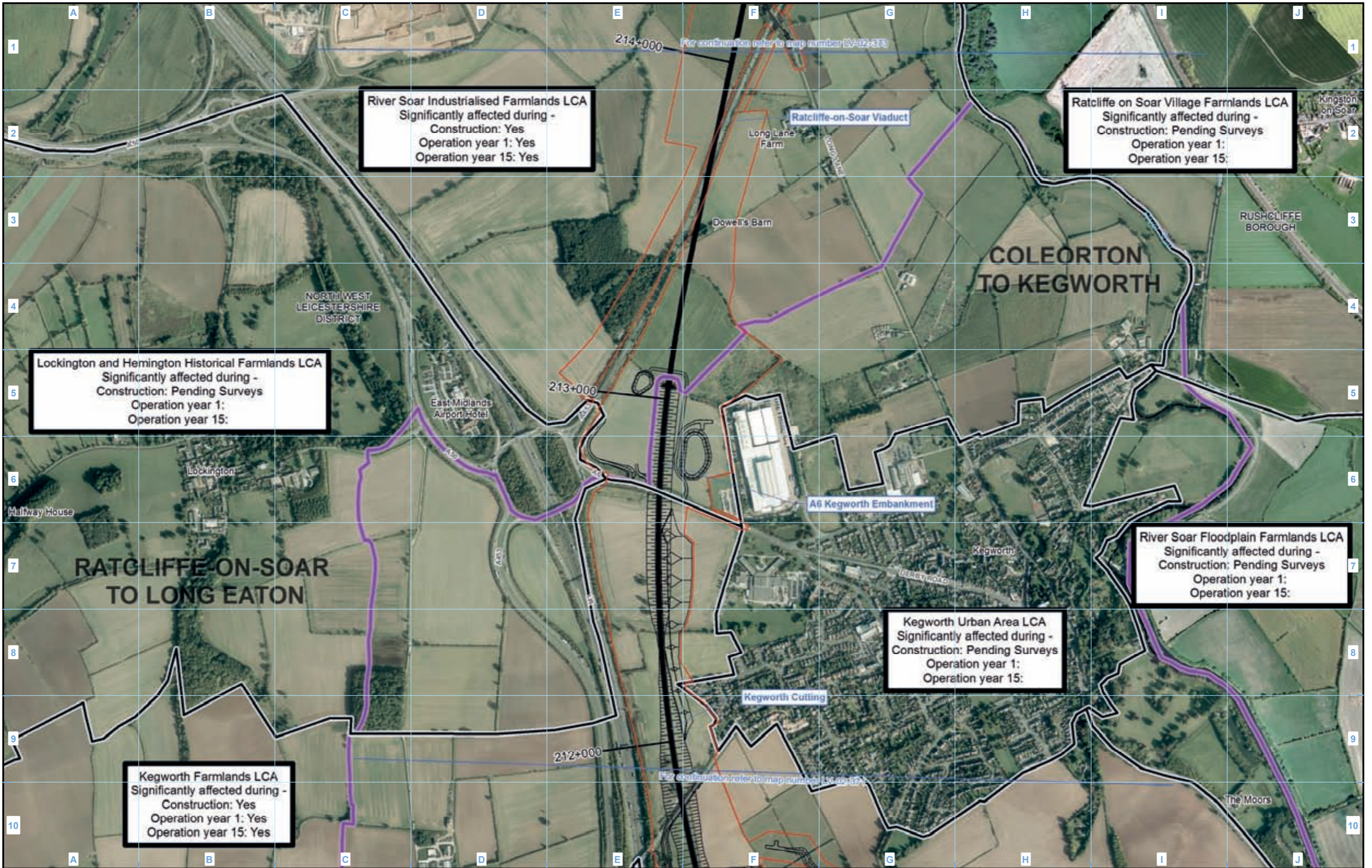
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0 100 200 300 400
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Date: 31/07/18



River Soar Industrialised Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Ratcliffe on Soar Village Farmlands LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1:
 Operation year 15:

Lockington and Hemington Historical Farmlands LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1:
 Operation year 15:

River Soar Floodplain Farmlands LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1:
 Operation year 15:

Kegworth Urban Area LCA
 Significantly affected during -
 Construction: Pending Surveys
 Operation year 1:
 Operation year 15:

Kegworth Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Landscape character areas (LCA)

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

Map Number LV-02-372a

Map Name
**Landscape Character Areas
 WDES**

Community Area LA04:
 Coleorton to Kegworth

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Date: 31/07/18

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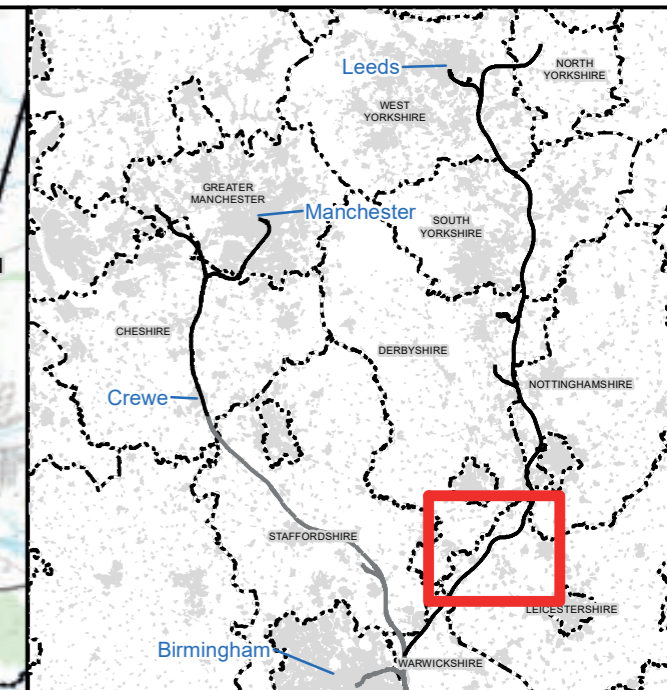
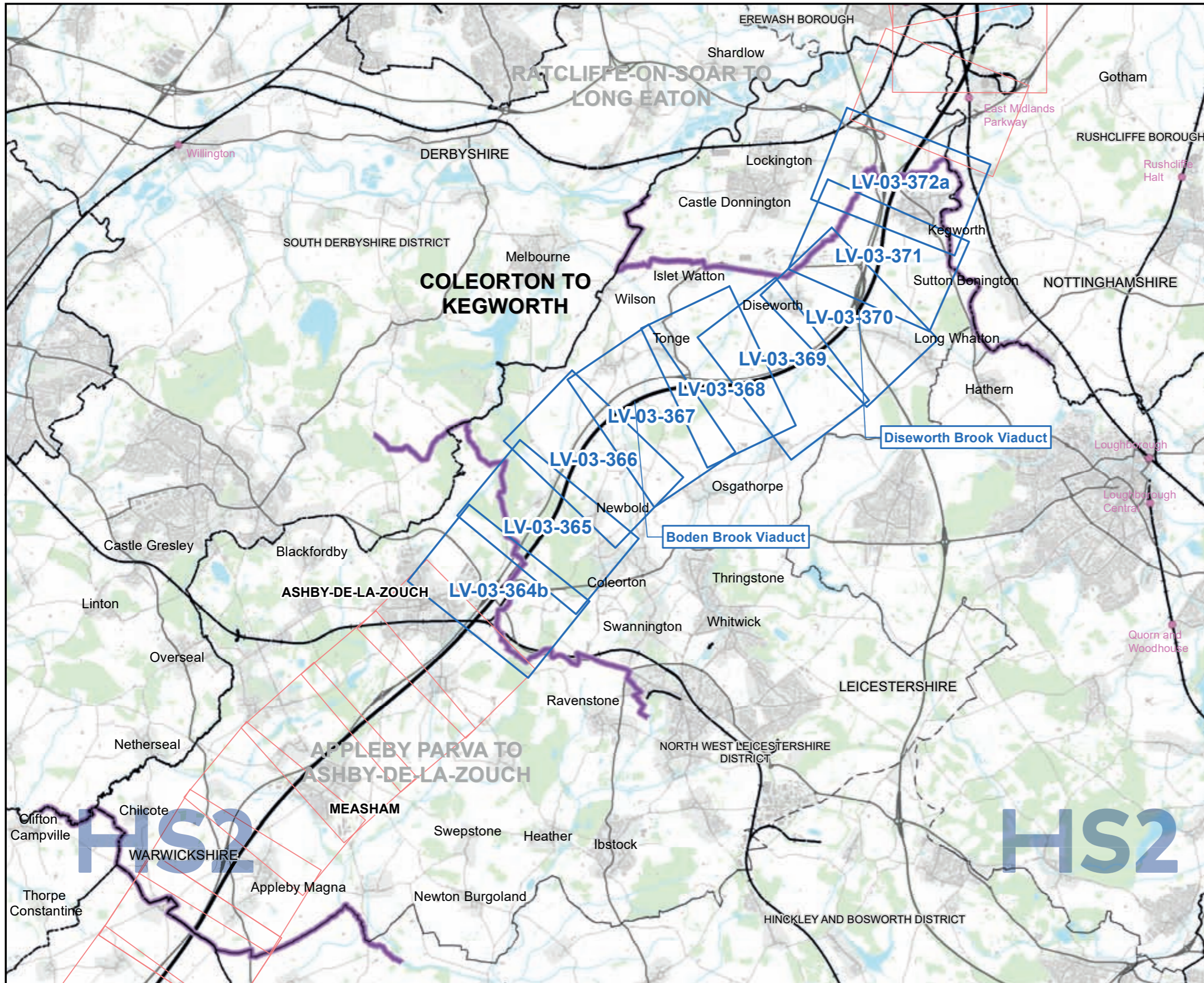
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High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

LV-03 – Operation Phase Significantly Affected Viewpoints

LV-04 – Construction Phase Significantly Affected Viewpoints



Map Series Information:

Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the construction phase. (All significant and non-significant photomontage locations are shown).

Main Map Legend

| | | | |
|--|--|--|--|
| | Route in tunnel | | Map sheets included in this community area |
| | Route in surface | | Map sheets not included in this community area |
| | Depot, station, headhouse or portal building | | |
| | Community area boundary | | |
| | Existing railway station | | |
| | County boundary | | |
| | District/Borough boundary | | |

| | |
|------------|---|
| Map Number | LV-03-INDEX-LA04 |
| Map Name | Index Map of: Construction Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

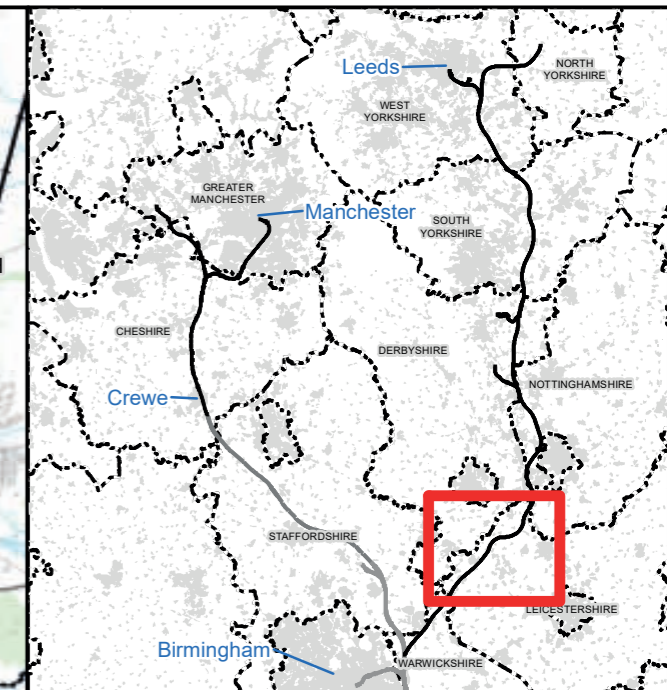
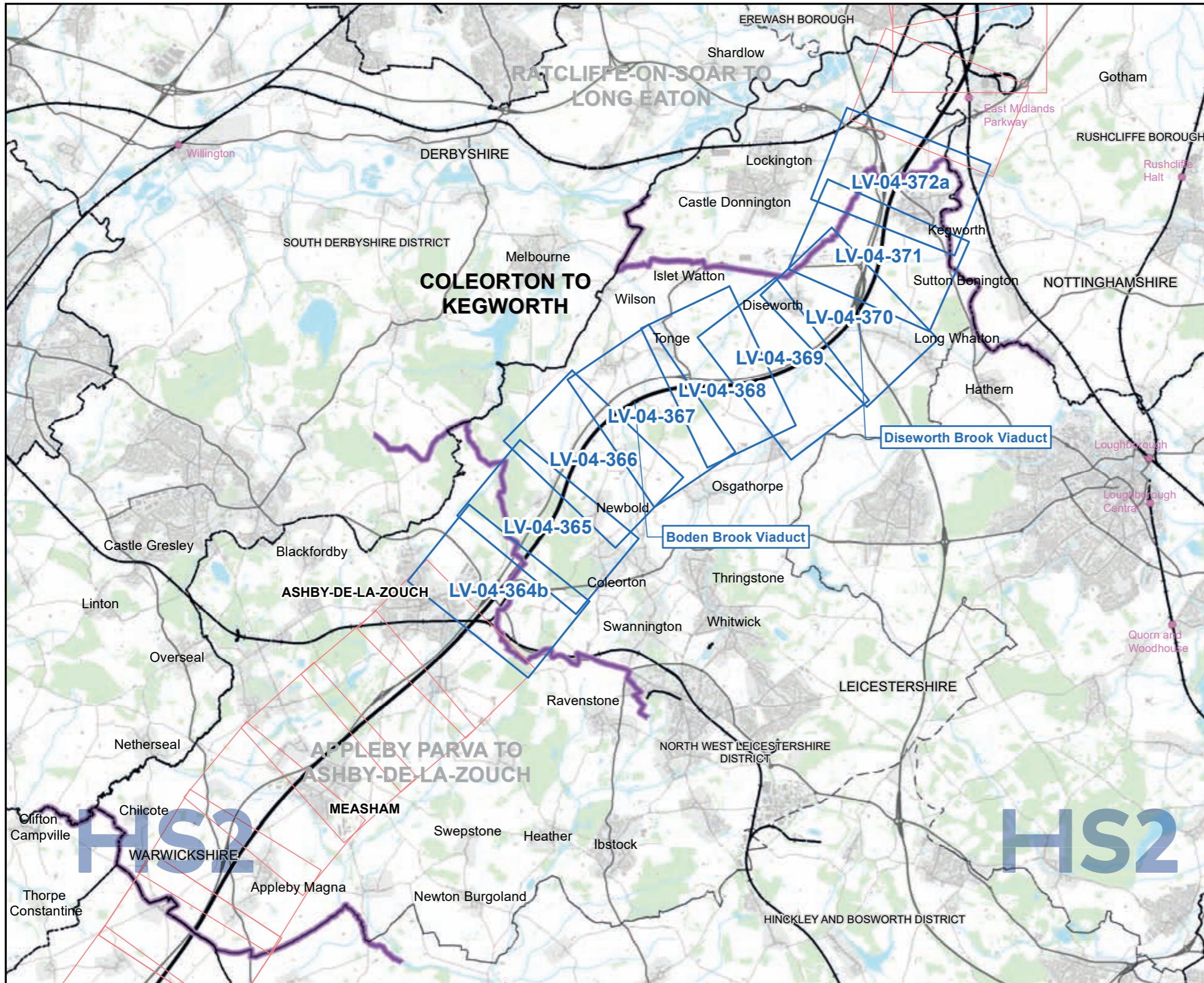
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Map Series Information:

Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the operational phase. (All significant and non-significant photomontage locations are shown).

Main Map Legend

| | | | |
|--|--|--|--|
| | Route in tunnel | | Map sheets included in this community area |
| | Route in surface | | Map sheets not included in this community area |
| | Depot, station, headhouse or portal building | | |
| | Community area boundary | | |
| | Existing railway station | | |
| | County boundary | | |
| | District/Borough boundary | | |

| | |
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| Map Number | LV-04-INDEX-LA04 |
| Map Name | Index Map of: Operational Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

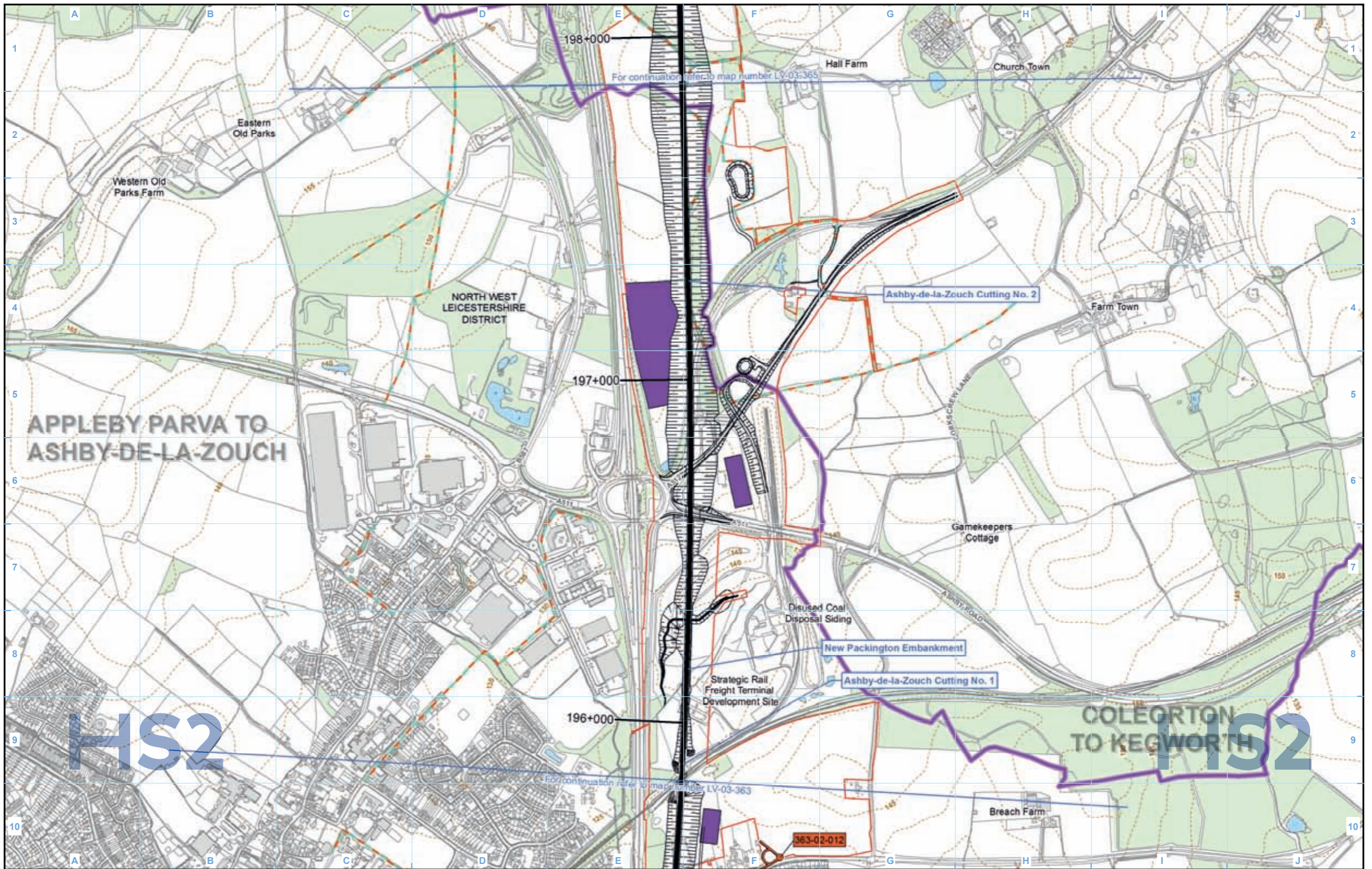
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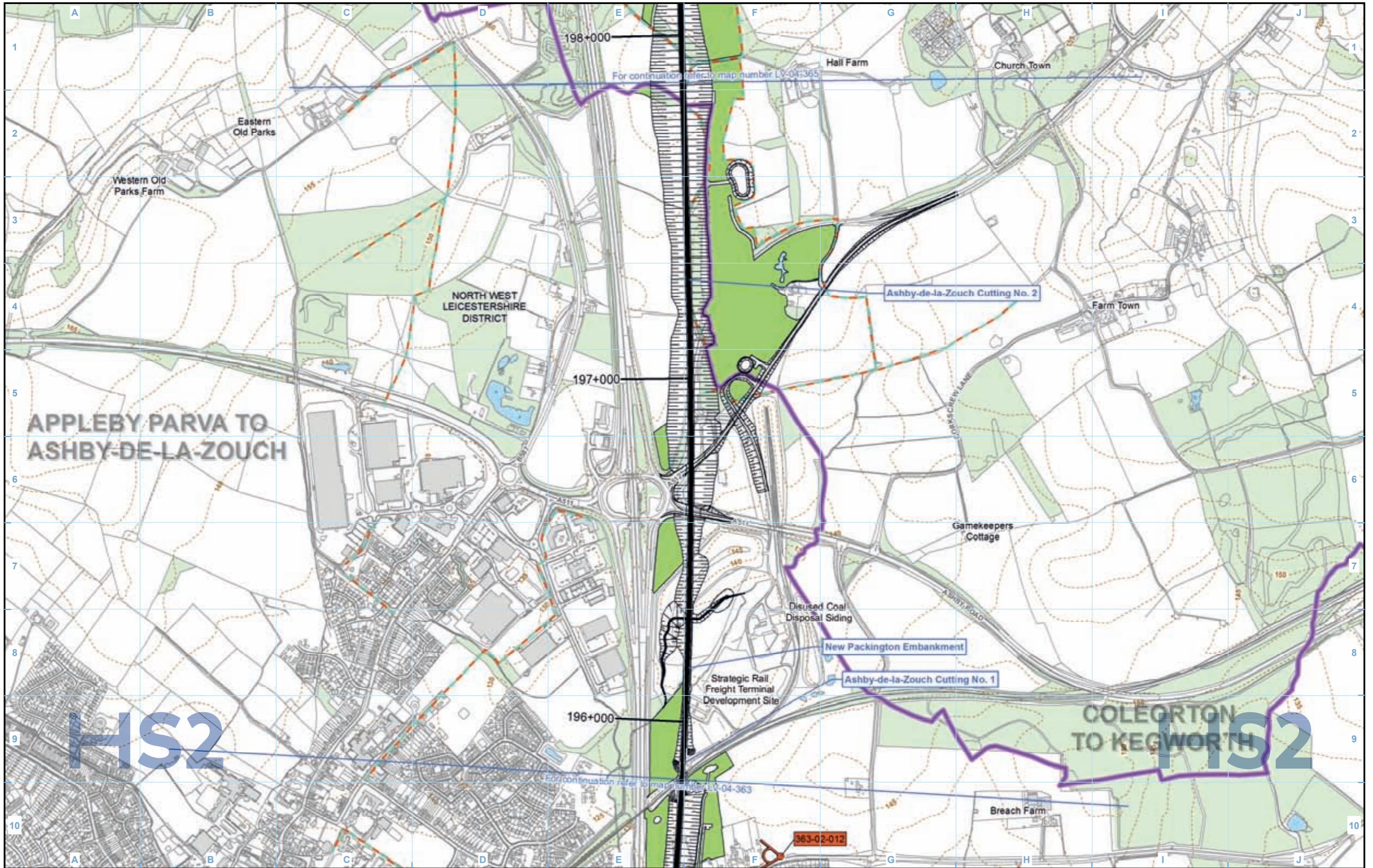
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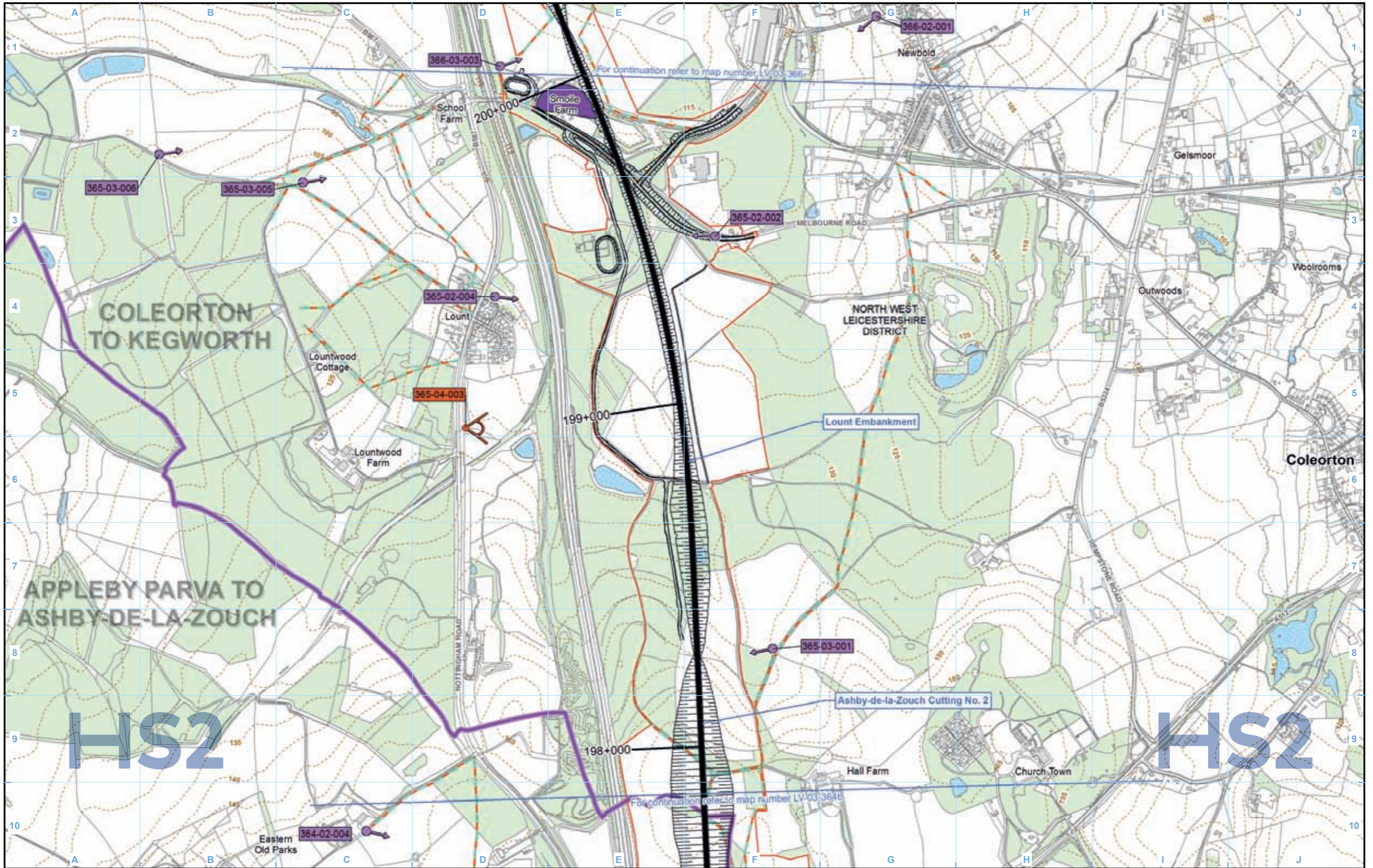
Doc Number: 2DE02-ACI-EV-MAP-L001-001116-P06 **Date:** 12/07/18



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|--|--|---|--|---|--|---------------------------------|--|---|
| Legend <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Public Rights of Way (PRoW) 5m contours Water body Existing woodland and tree belts Construction compounds | | <ul style="list-style-type: none"> Significantly affected viewpoint Photomontage location 001-01-001 Significantly affected viewpoint number 001-01-001 Photomontage viewpoint number | | Engineering earthworks: <ul style="list-style-type: none"> Embankment Cutting Non engineering earthworks: <ul style="list-style-type: none"> Embankment Cutting | | Map Number LV-03-364b | | <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2018 OS 100049190</p> <p>Scale at A3: 1:10,000</p> <p>Doc Number: 2DE02-ACI-EV-MAP-L001-001095-P06</p> <p>Date: 13/07/18</p> |
| | | | | Map Name Construction Phase Significantly Affected Viewpoints WDES | | | | |
| | | | | Community Area LA04: Coleorton to Kegworth | | | | |



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| Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Community area boundary County boundary District/Borough boundary Public Rights of Way (PRoW) 5m contours Water body Existing woodland and tree belts Proposed tree planting Significantly affected viewpoint Photomontage location 001-1-001 Significantly affected viewpoint number 001-1-001 Photomontage viewpoint number | | Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting | | Map Number LV-04-364b Map Name Operational Phase Significantly Affected Viewpoints WDES Community Area LA04: Coleorton to Kegworth | Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2018 OS 100049190 Scale at A3: 1:10,000 Metres Doc Number: 2DE02-ACI-EV-MAP-L001-001117-P06 Date: 12/07/18 |
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Engineering earthworks:

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| | Embankment |
| | Cutting |

Non engineering earthworks:

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| | Embankment |
| | Cutting |

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| Map Number | LV-03-365 |
| Map Name | Construction Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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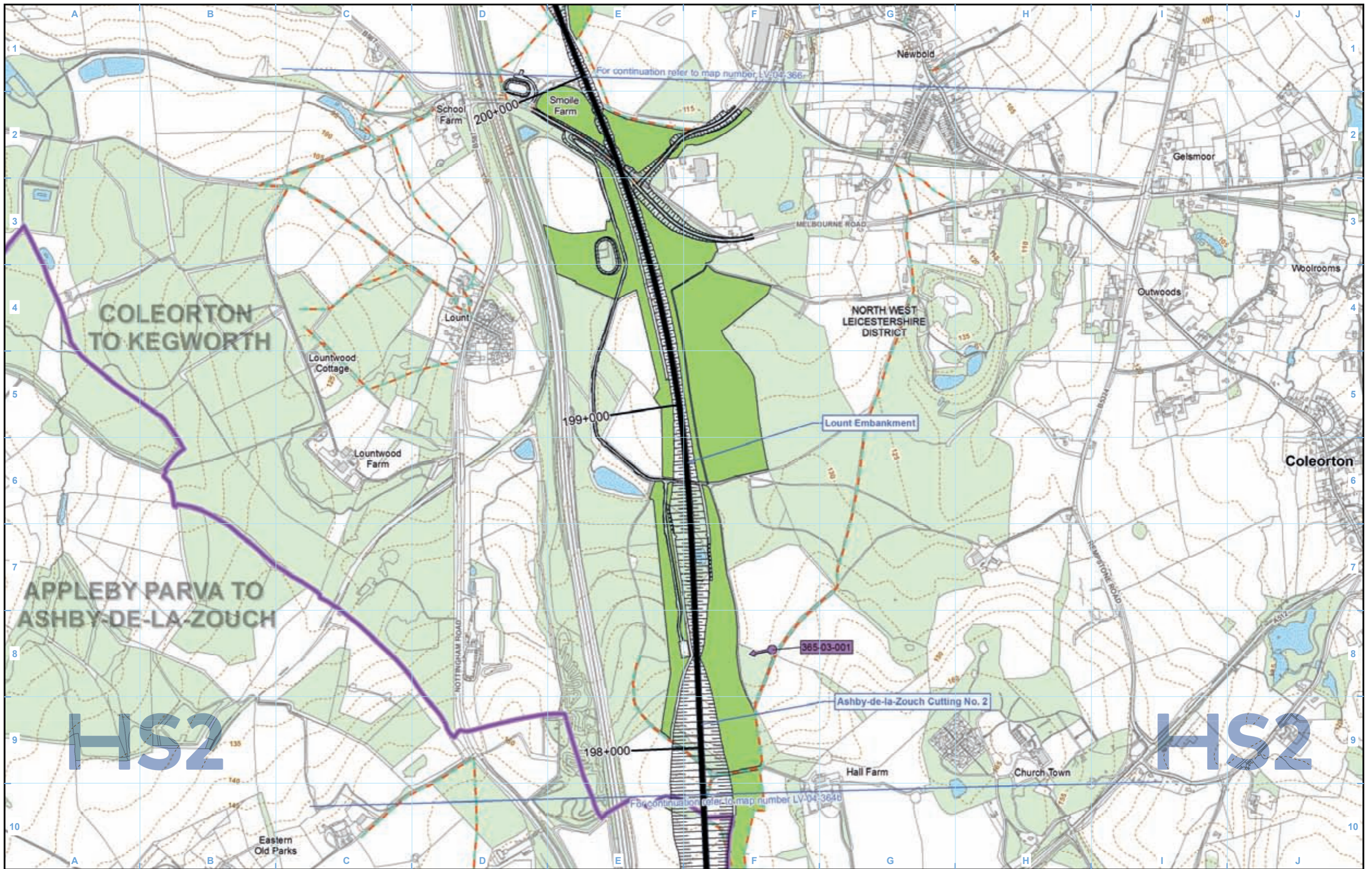
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Date: 31/07/18



Legend

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| | | | Engineering earthworks: |
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| | | | Non engineering earthworks: |
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Map Number: LV-04-365

Map Name: Operational Phase Significantly Affected Viewpoints WDES

Community Area LA04: Coleorton to Kegworth

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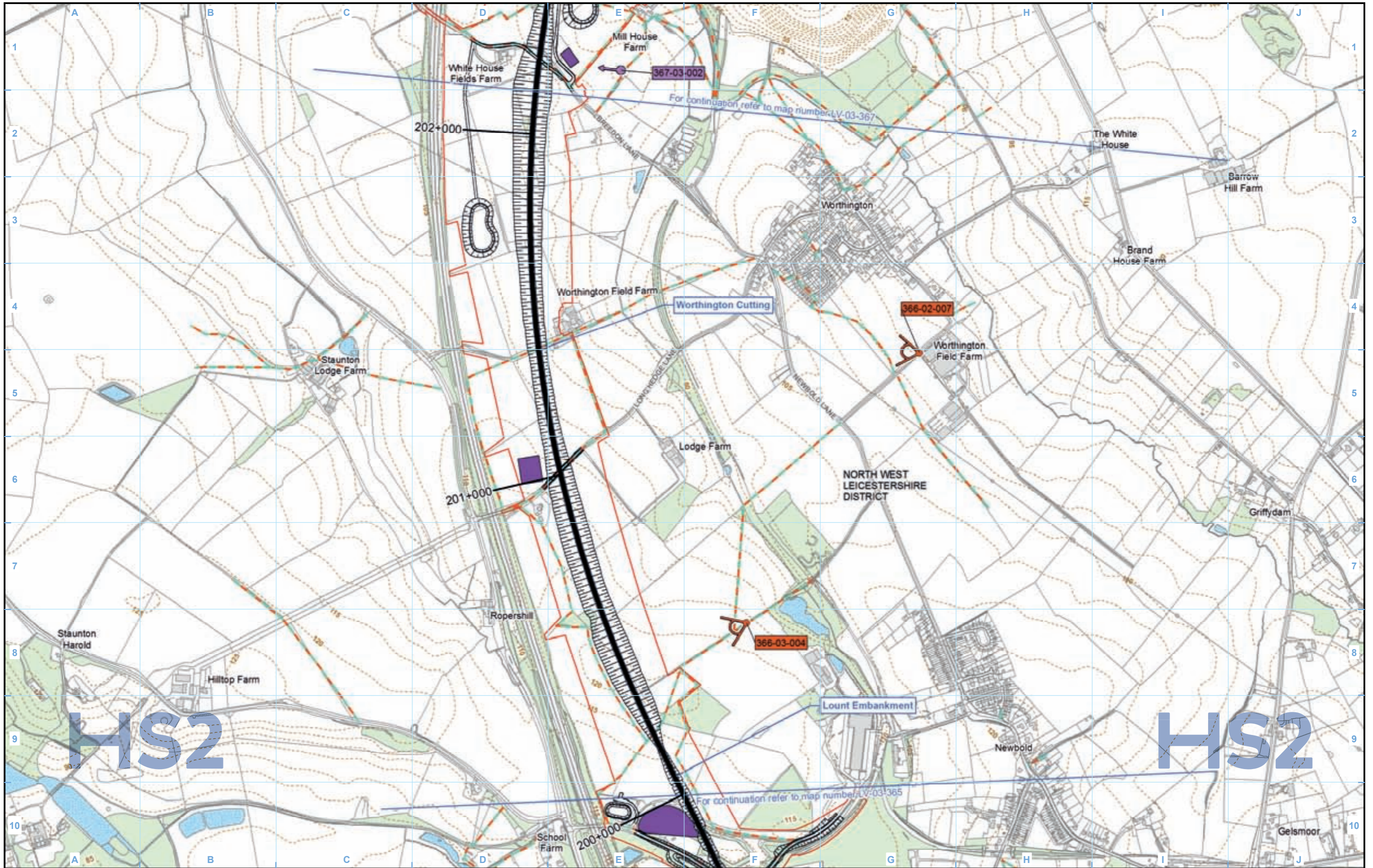
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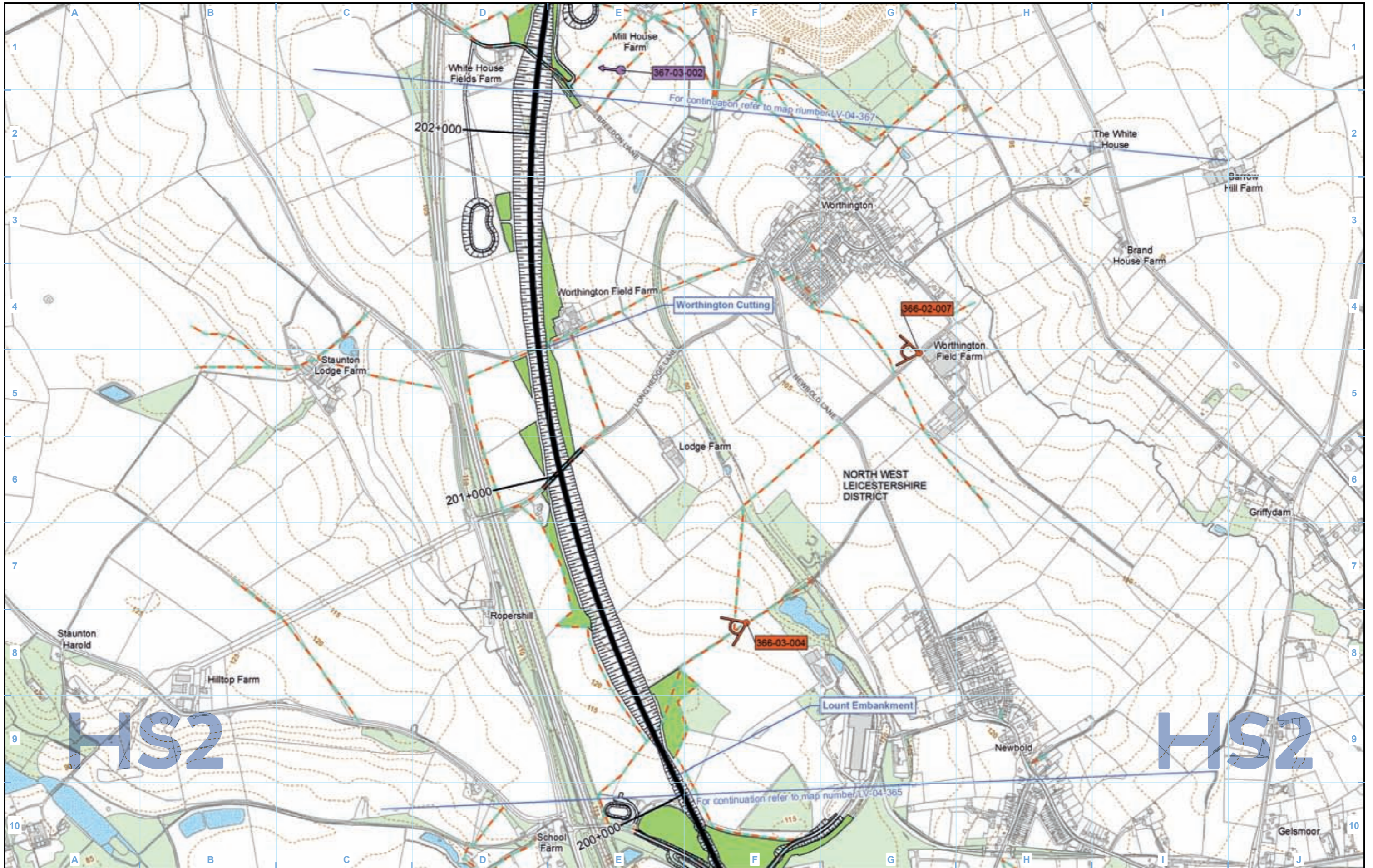
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Date: 12/07/18



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| <p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Public Rights of Way (PRoW) 5m contours Water body Existing woodland and tree belts Construction compounds Significantly affected viewpoint Photomontage location 001-01-001 Significantly affected viewpoint number 001-01-001 Photomontage viewpoint number | <p>Engineering earthworks:</p> <ul style="list-style-type: none"> Embankment Cutting <p>Non engineering earthworks:</p> <ul style="list-style-type: none"> Embankment Cutting | <p>Map Number LV-03-366</p> <p>Map Name Construction Phase Significantly Affected Viewpoints WDES</p> <p>Community Area LA04: Coleorton to Kegworth</p> | <p>HS2</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2018 OS 100049190</p> <p>Doc Number: 2DE02-ACI-EV-MAP-L001-001097-P06</p> | <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>HS2</p> <p>Scale at A3: 1:10,000</p> <p>Date: 13/07/18</p> |
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| | Significantly affected viewpoint |
| | Photomontage location |
| | Significantly affected viewpoint number |
| | Photomontage viewpoint number |

Engineering earthworks:

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| | Embankment |
| | Cutting |

Non engineering earthworks:

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| | Embankment |
| | Cutting |

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| Map Number | LV-04-366 |
| Map Name | Operational Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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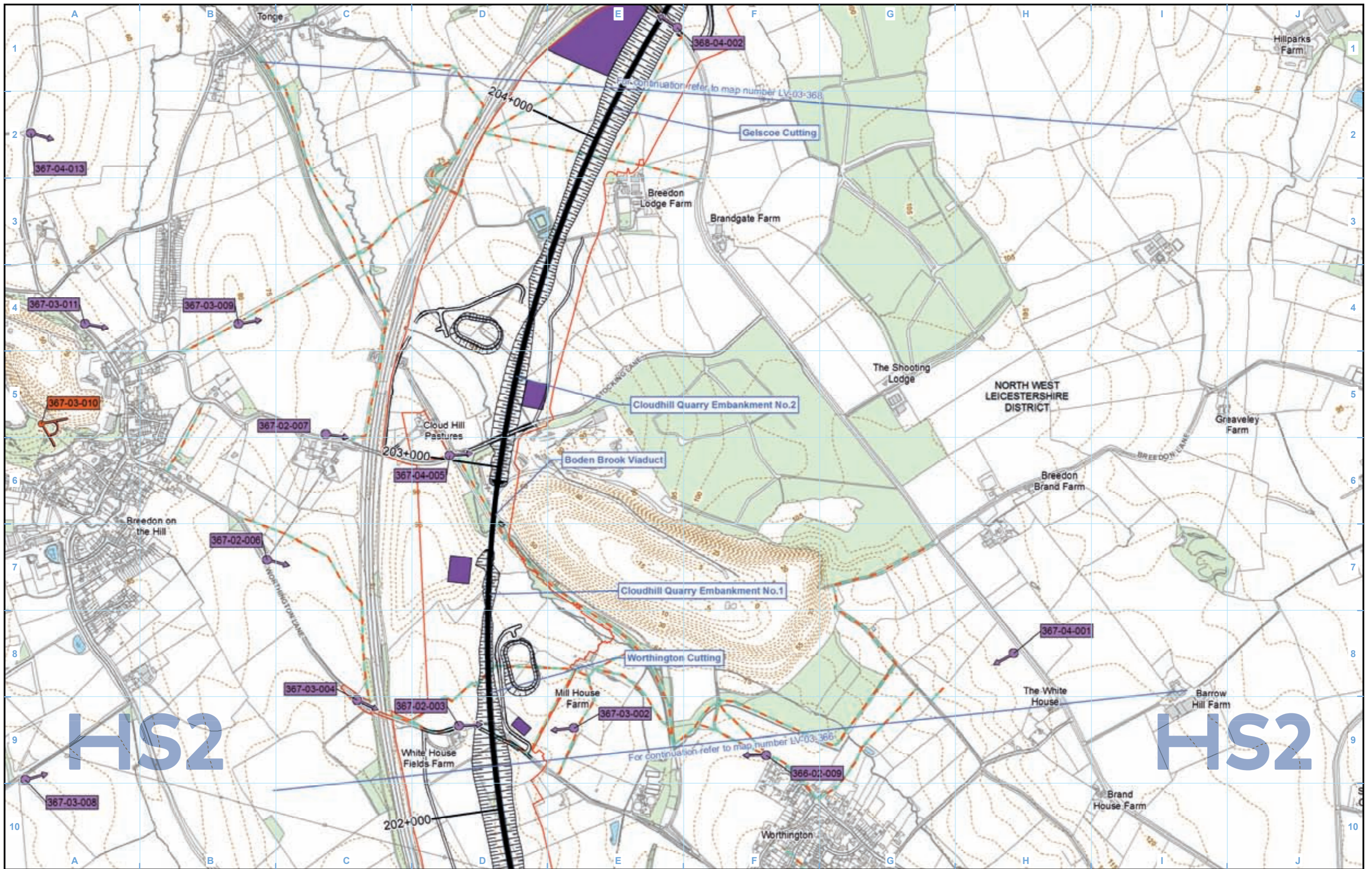
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Metres

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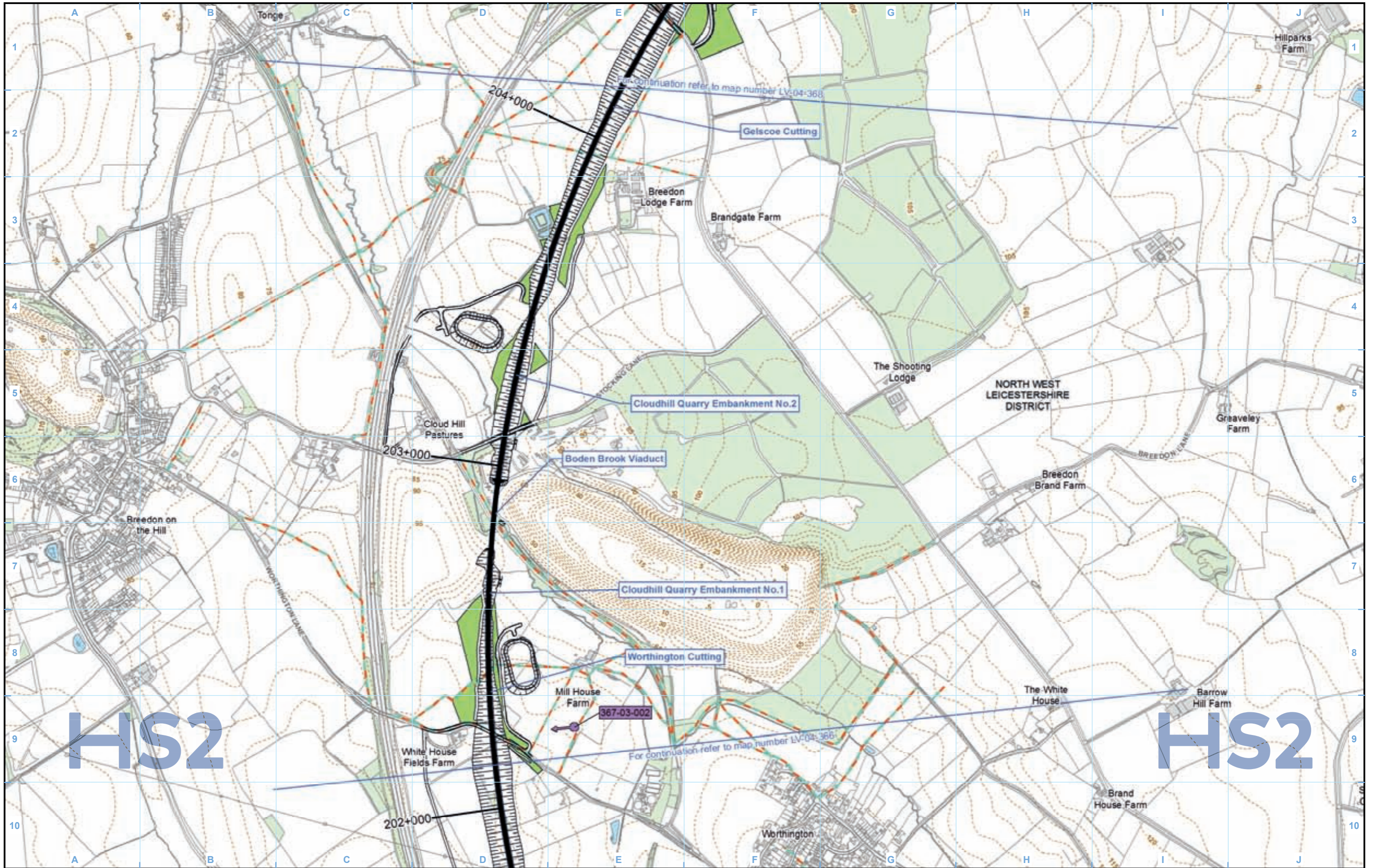
Date: 12/07/18



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| Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary | | Public Rights of Way (PRoW) 5m contours Water body Existing woodland and tree belts Construction compounds | | Significantly affected viewpoint Photomontage location 001-01-001 Significantly affected viewpoint number 001-01-001 Photomontage viewpoint number | | Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting | | Map Number LV-03-367 <hr/> Map Name Construction Phase Significantly Affected Viewpoints WDES <hr/> Community Area LA04: Coleorton to Kegworth | | <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2018 OS 100049190</p> <p>Scale at A3: 1:10,000</p> <p>Doc Number: 2DE02-ACI-EV-MAP-L001-001098-P07</p> <p>Date: 31/07/18</p> | |
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| | Significantly affected viewpoint |
| | Photomontage location |
| | Significantly affected viewpoint number |
| | Photomontage viewpoint number |

Engineering earthworks:

| | |
|--|------------|
| | Embankment |
| | Cutting |

Non engineering earthworks:

| | |
|--|------------|
| | Embankment |
| | Cutting |

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| Map Number | LV-04-367 |
| Map Name | Operational Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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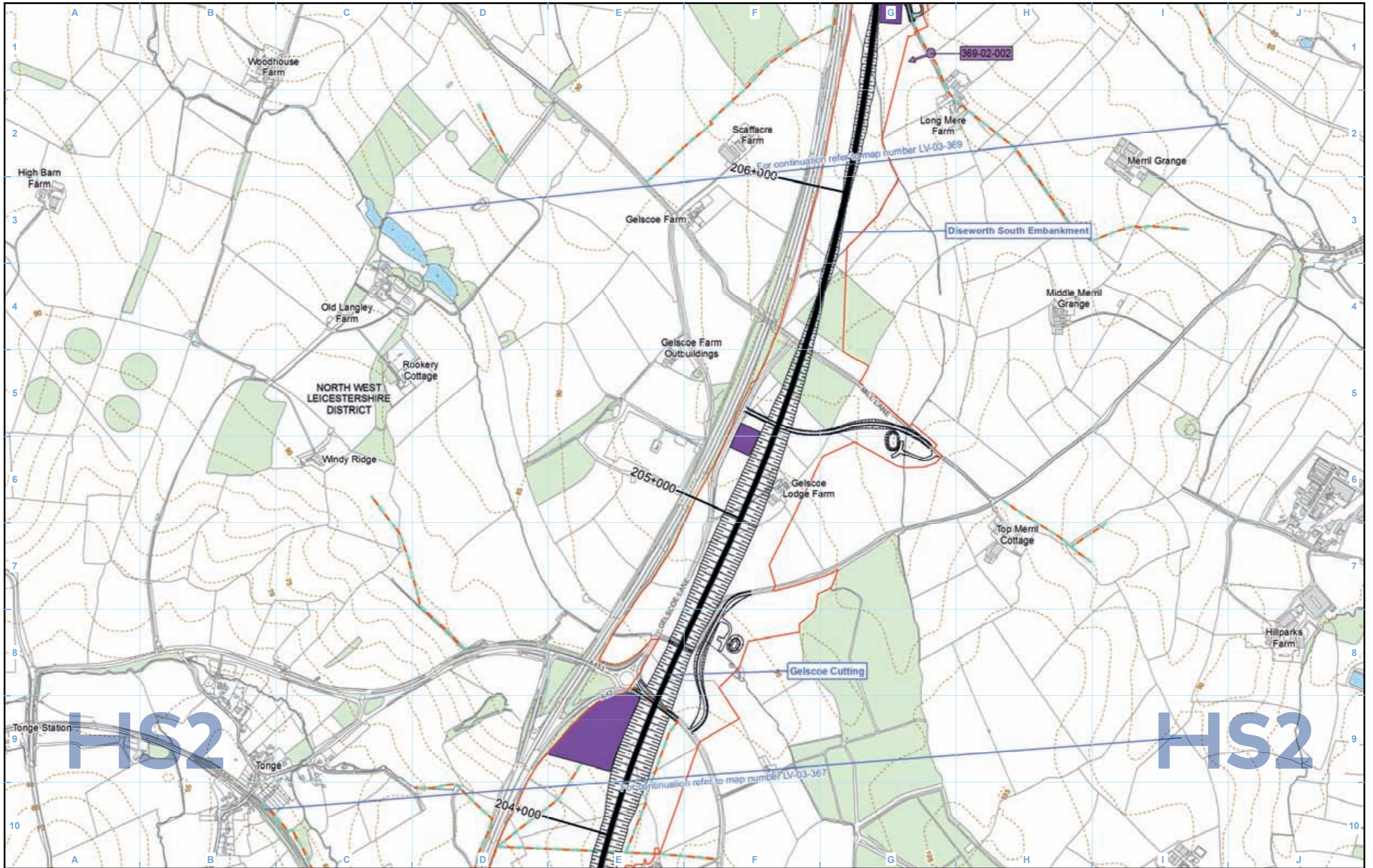
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Date: 12/07/18



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Engineering earthworks:

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| | Embankment |
| | Cutting |

Non engineering earthworks:

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| | Embankment |
| | Cutting |

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| Map Number | LV-03-368 |
| Map Name | Construction Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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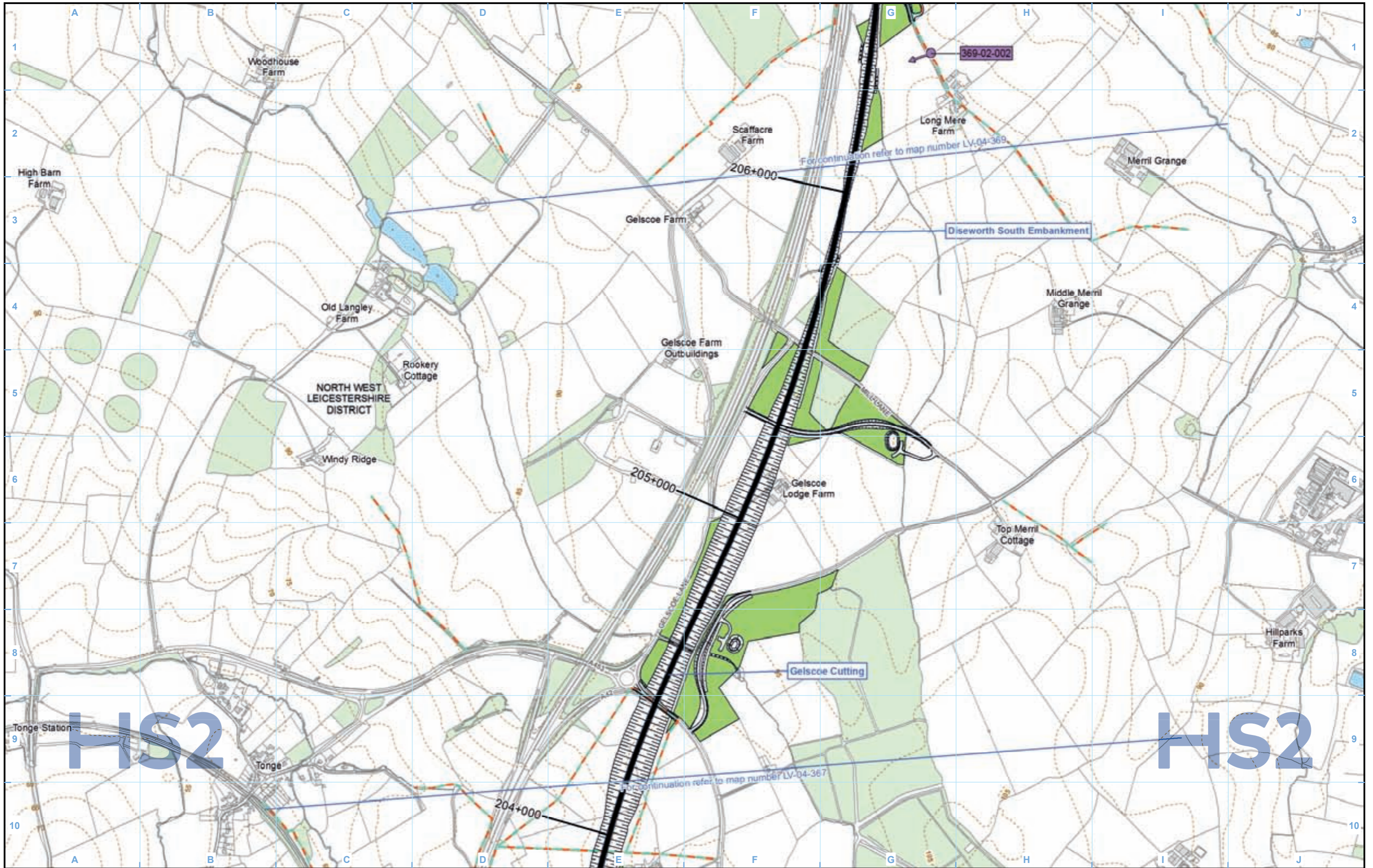
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Scale at A3: 1:10,000

Metres

Date: 13/07/18

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Legend

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| | | | Engineering earthworks: |
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| | | | Non engineering earthworks: |
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Map Number LV-04-368

Map Name
Operational Phase Significantly Affected Viewpoints WDES

Community Area LA04:
Coleorton to Kegworth

HS2

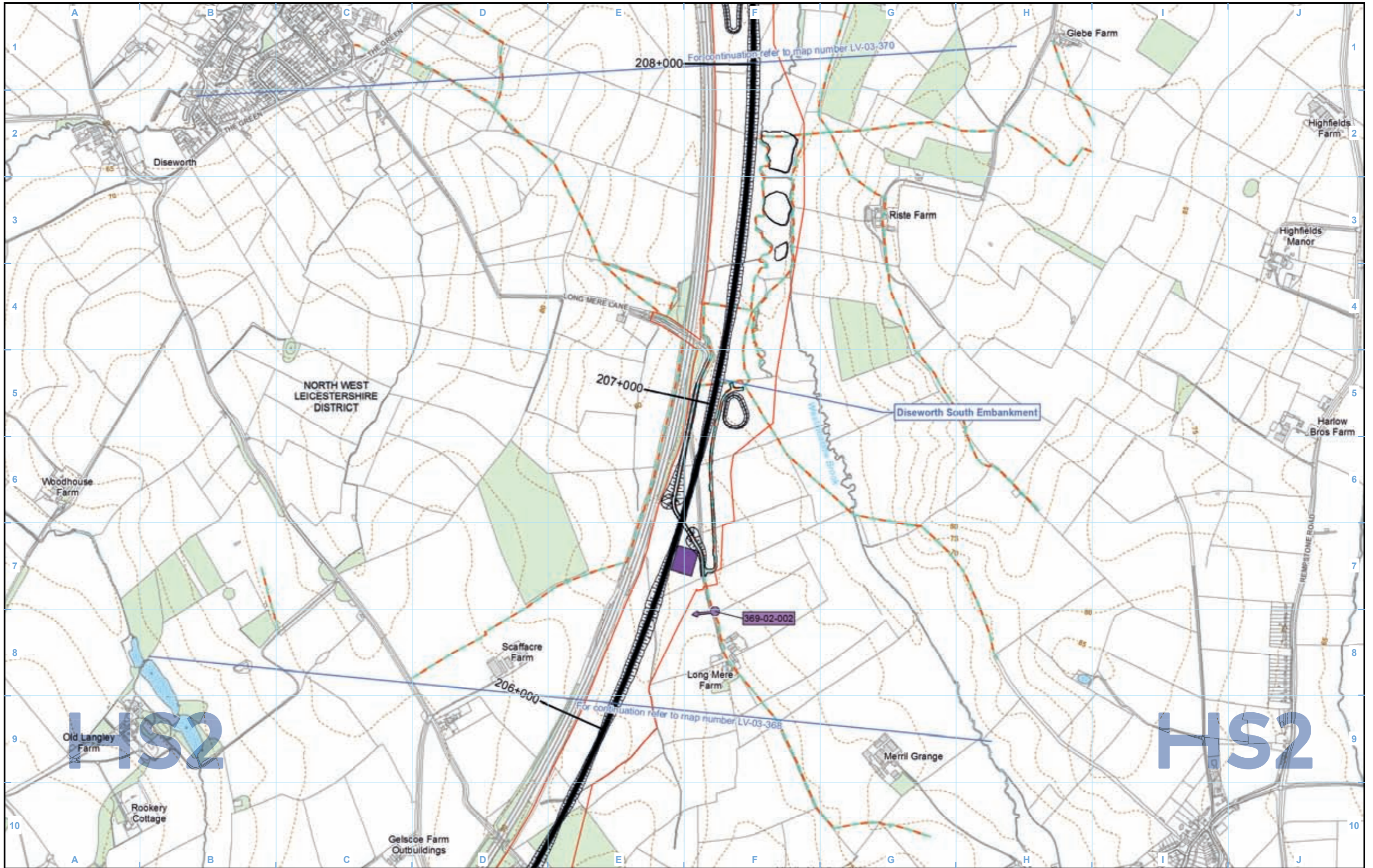
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Legend

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|---|----------------------------------|--|------------------------------------|
| Route in tunnel | Public Rights of Way (PRoW) | Significantly affected viewpoint | Engineering earthworks: |
| Route on surface | 5m contours | Photomontage location | Embankment |
| Depot, station, headhouse or portal building | Water body | 001-01-001 Significantly affected viewpoint number | Cutting |
| Land potentially required during construction | Existing woodland and tree belts | 001-01-001 Photomontage viewpoint number | Non engineering earthworks: |
| Community area boundary | Construction compounds | | Embankment |
| County boundary | | | Cutting |
| District/Borough boundary | | | |

Map Number LV-03-369

Map Name Construction Phase Significantly Affected Viewpoints WDES

Community Area LA04: Coleorton to Kegworth

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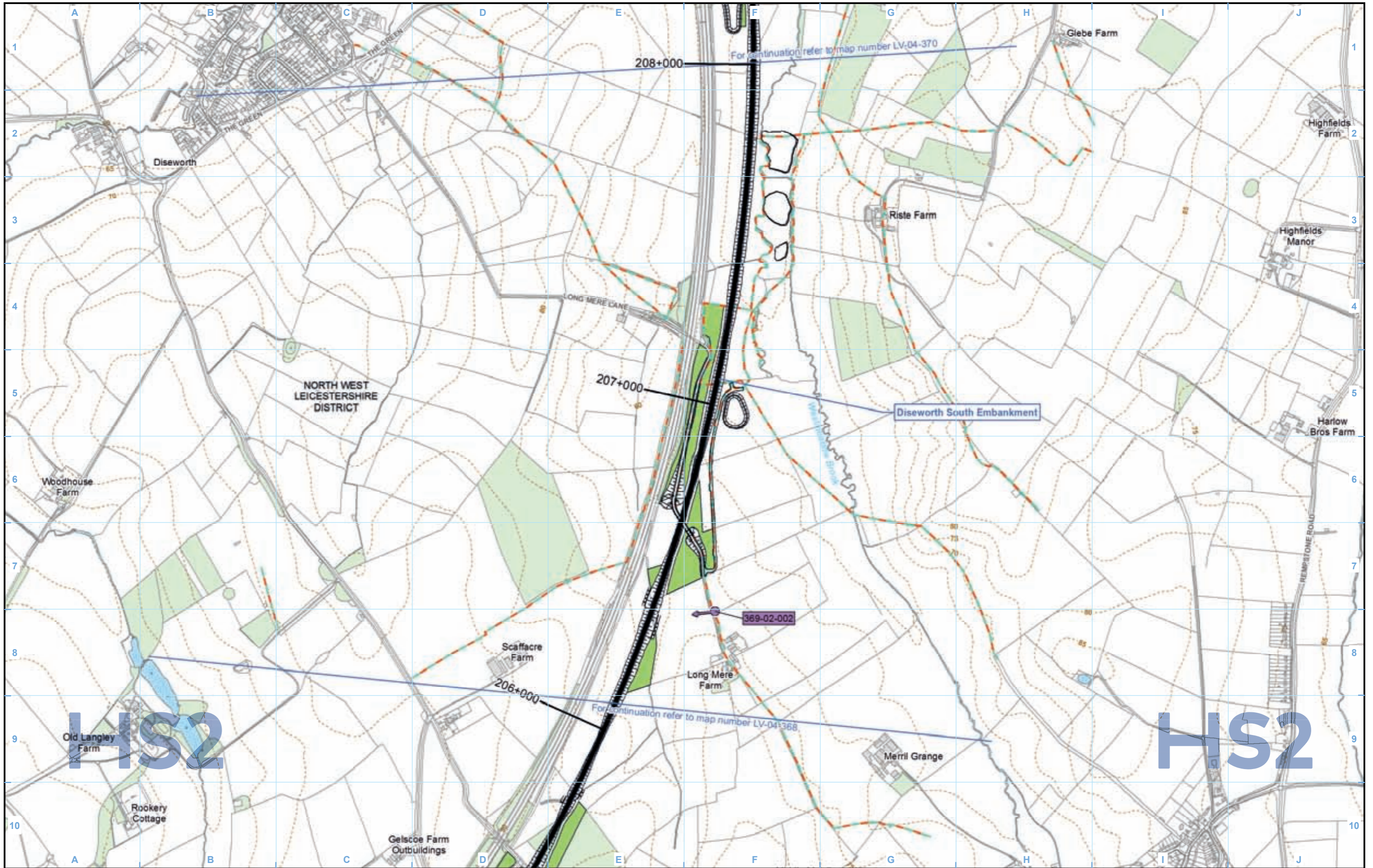
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Doc Number: 2DE02-ACI-EV-MAP-L001-001100-P06

Date: 13/07/18



Legend

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|--|--|--|------------------------------------|
| | | | Engineering earthworks: |
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| | | | Non engineering earthworks: |
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Map Number: LV-04-369

Map Name: Operational Phase Significantly Affected Viewpoints WDES

Community Area LA04: Coleorton to Kegworth

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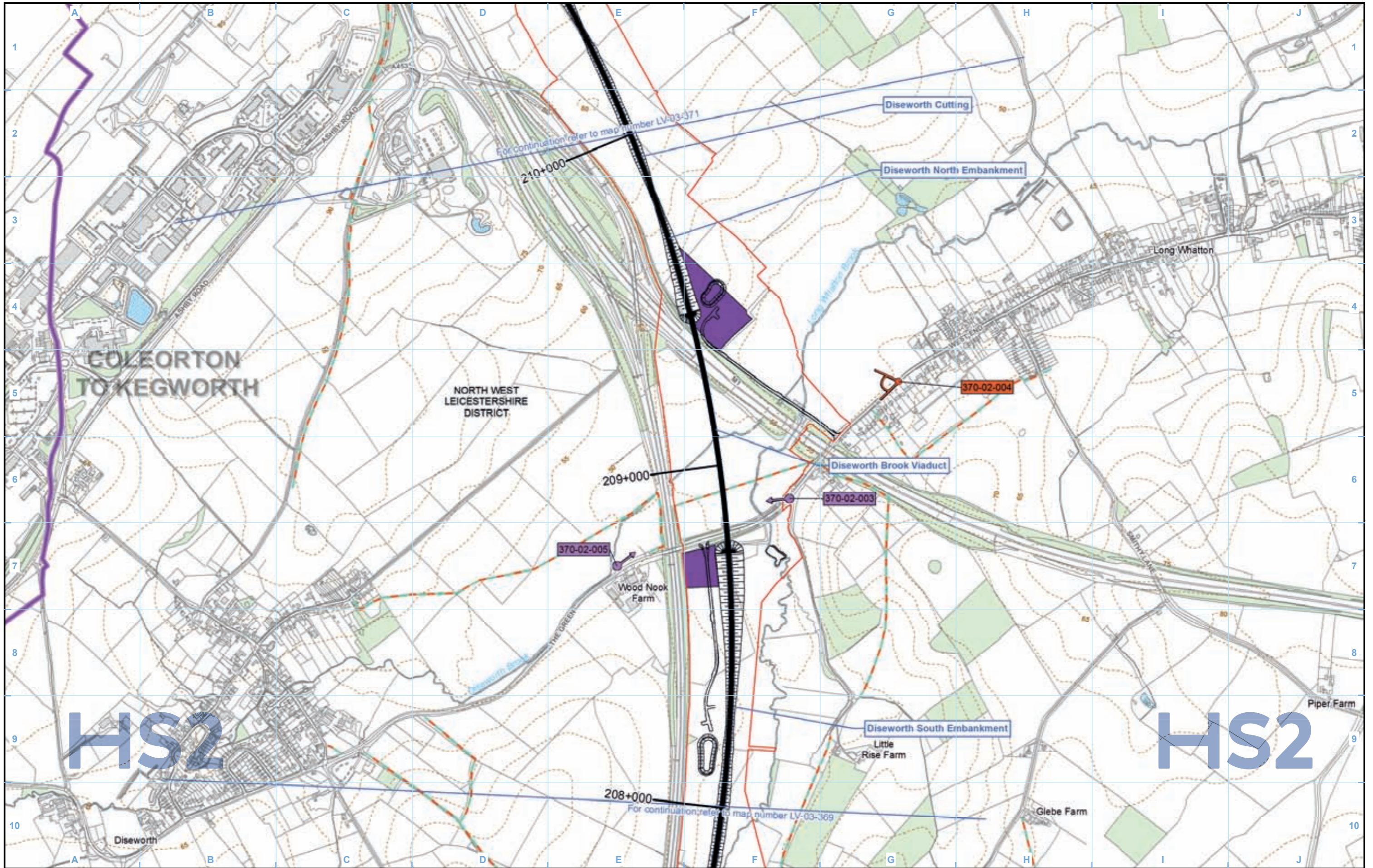
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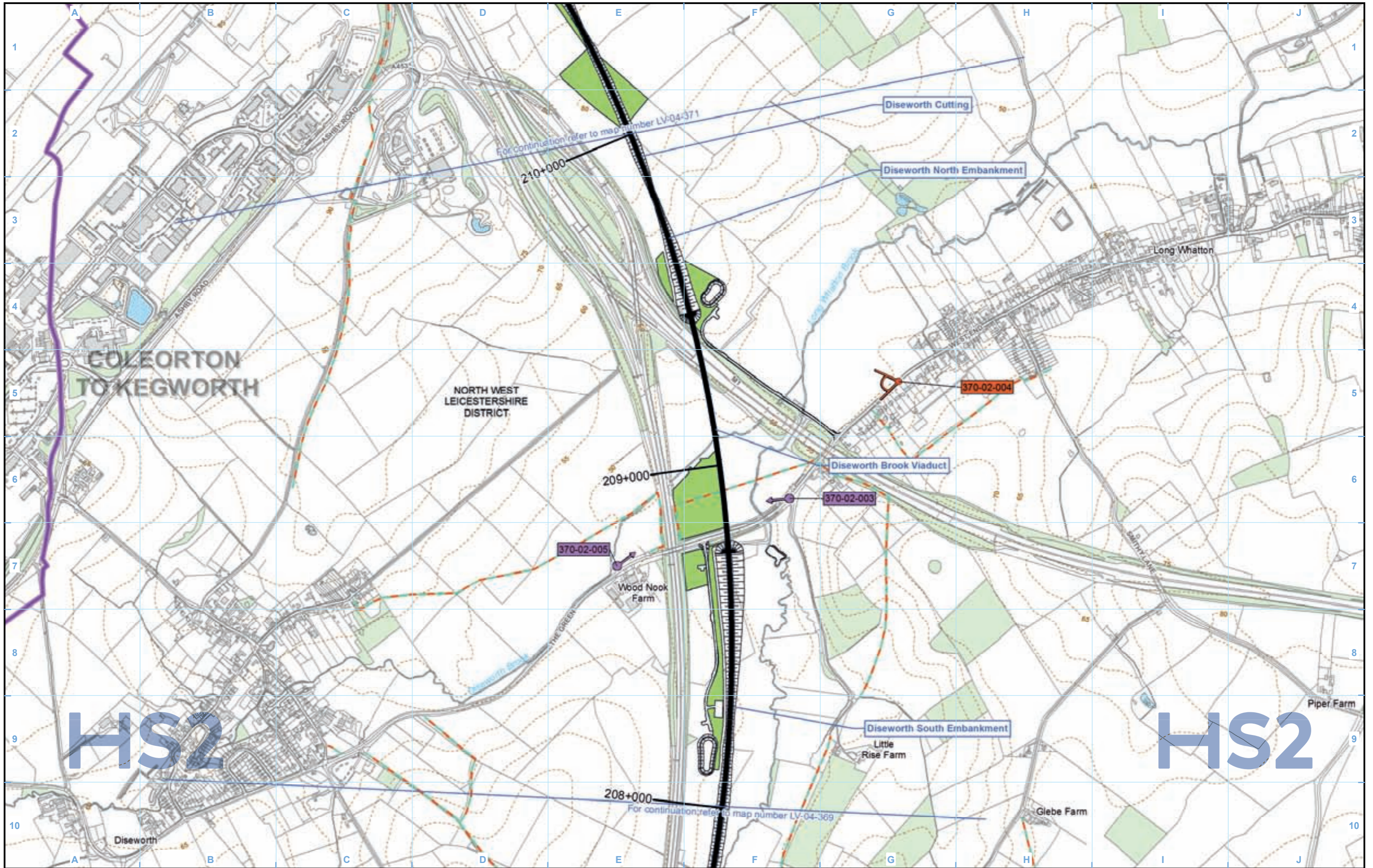
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Date: 12/07/18



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|--|--|---|--|--|--|---|--|---|--|
| Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Public Rights of Way (PRoW) 5m contours Water body Existing woodland and tree belts Construction compounds | | Significantly affected viewpoint Photomontage location 001-01-001 Significantly affected viewpoint number 001-01-001 Photomontage viewpoint number | | Engineering earthworks: Embankment Cutting Non engineering earthworks: Embankment Cutting | | Map Number LV-03-370 <hr/> Map Name Construction Phase Significantly Affected Viewpoints WDES <hr/> Community Area LA04: Coleorton to Kegworth | | <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2018 OS 100049190</p> <p>Scale at A3: 1:10,000</p> <p>Doc Number: 2DE02-ACI-EV-MAP-L001-001101-P06</p> <p>Date: 13/07/18</p> | |
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| | Significantly affected viewpoint |
| | Photomontage location |
| | Significantly affected viewpoint number |
| | Photomontage viewpoint number |

Engineering earthworks:

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| | Embankment |
| | Cutting |

Non engineering earthworks:

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| | Embankment |
| | Cutting |

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| Map Number | LV-04-370 |
| Map Name | Operational Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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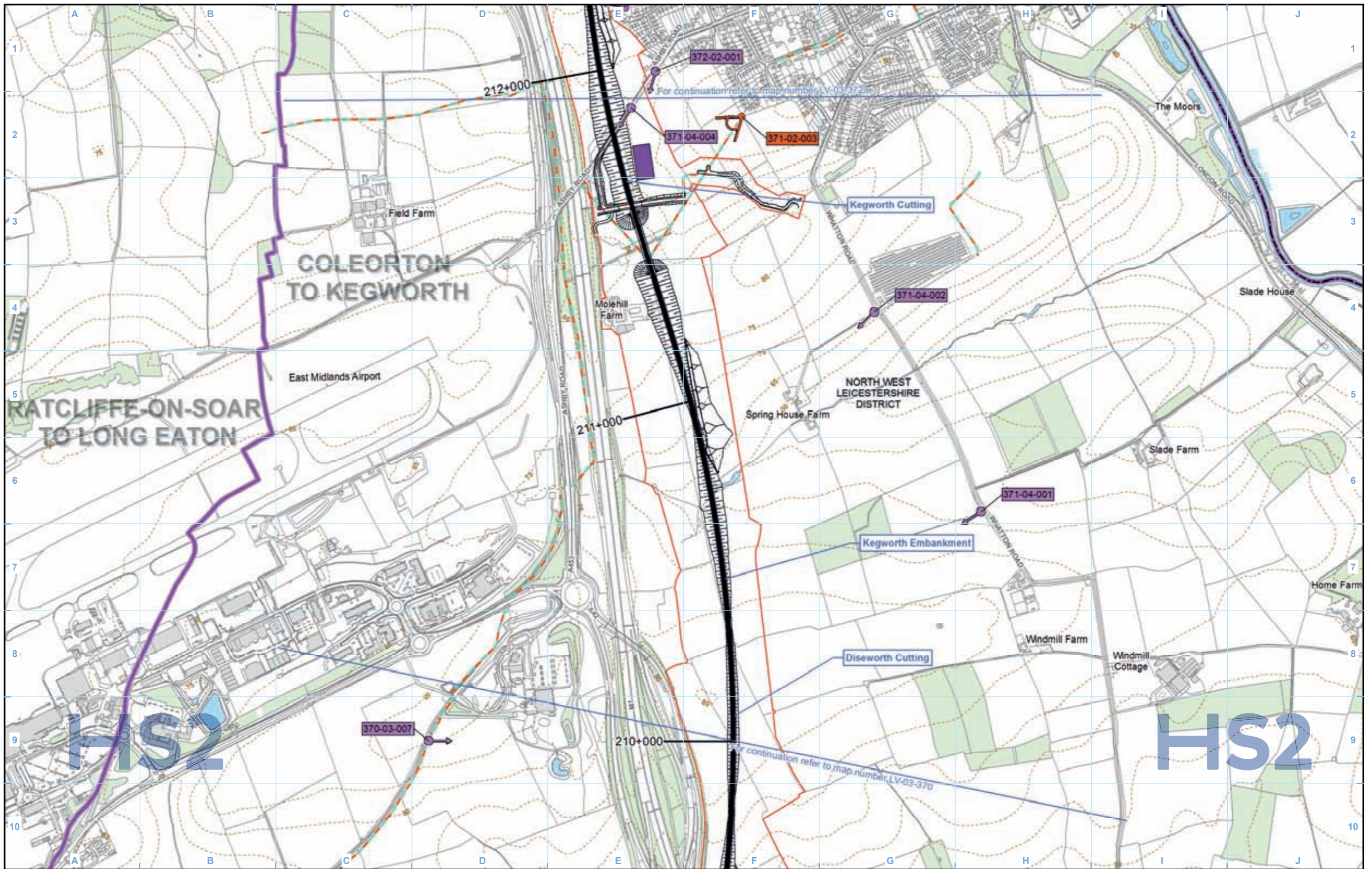
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Scale at A3: 1:10,000

Metres

Date: 12/07/18



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Engineering earthworks:

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| | Embankment |
| | Cutting |

Non engineering earthworks:

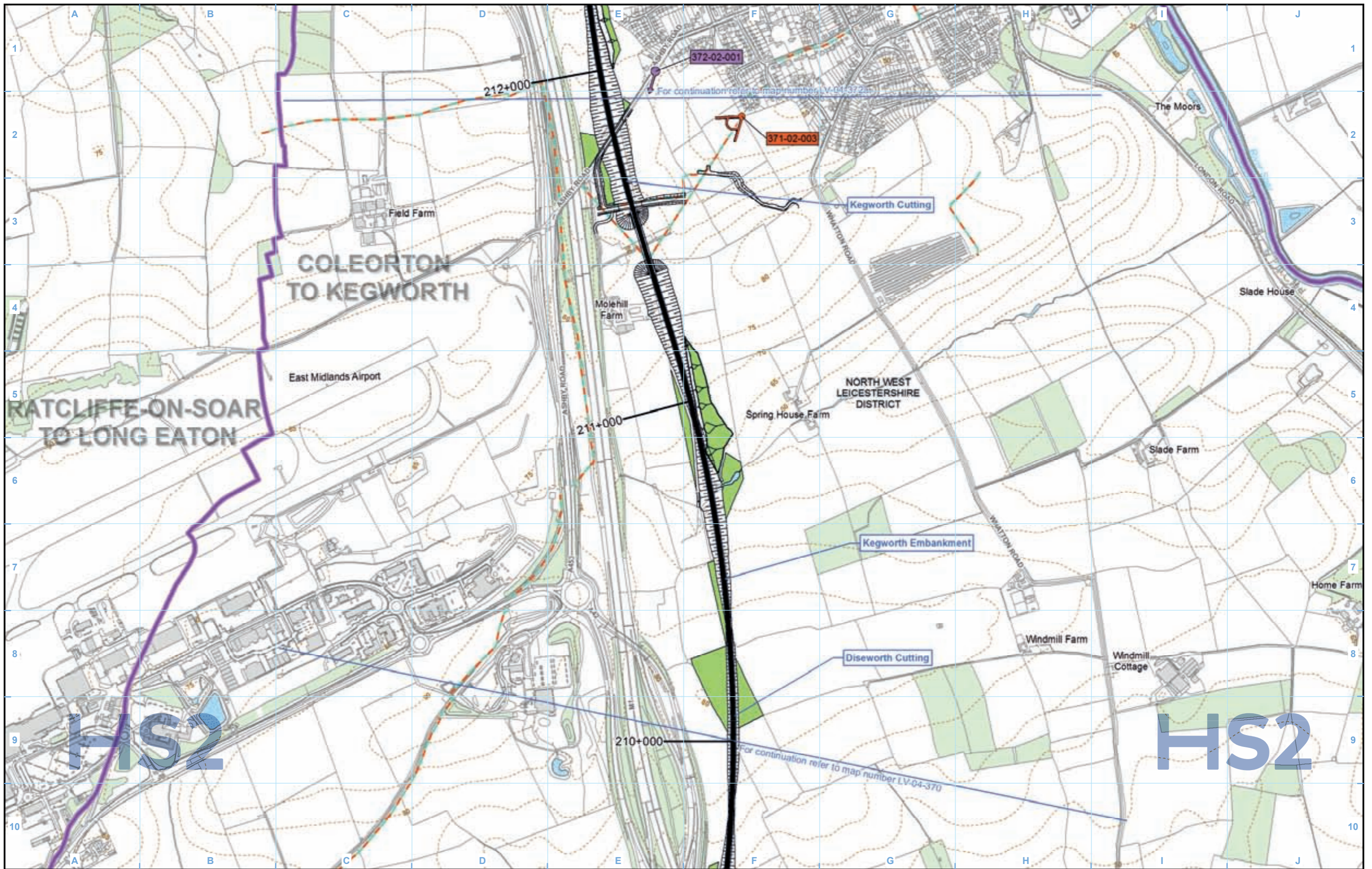
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| | Embankment |
| | Cutting |

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| | Significantly affected viewpoint number |
| | Photomontage viewpoint number |

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| Map Number | LV-03-371 |
| Map Name | Construction Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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Engineering earthworks:

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| | Embankment |
| | Cutting |

Non engineering earthworks:

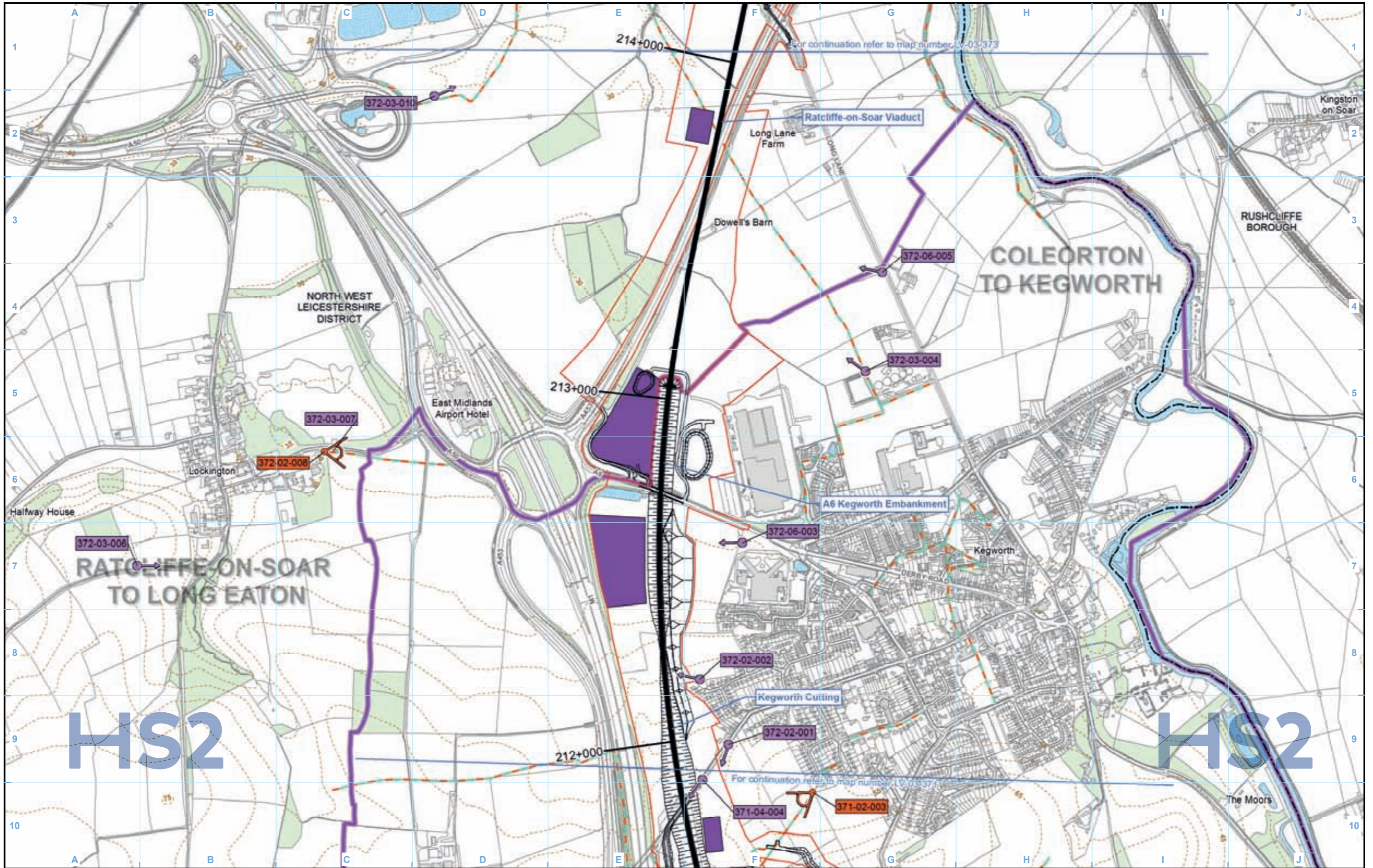
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|--|------------|
| | Embankment |
| | Cutting |

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| 001-1-001 | Significantly affected viewpoint number |
| 001-1-002 | Photomontage viewpoint number |

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| Map Number | LV-04-371 |
| Map Name | Operational Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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Legend

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Engineering earthworks:

| | |
|--|------------|
| | Embankment |
| | Cutting |

Non engineering earthworks:

| | |
|--|------------|
| | Embankment |
| | Cutting |

| | |
|------------|---|
| Map Number | LV-03-372a |
| Map Name | Construction Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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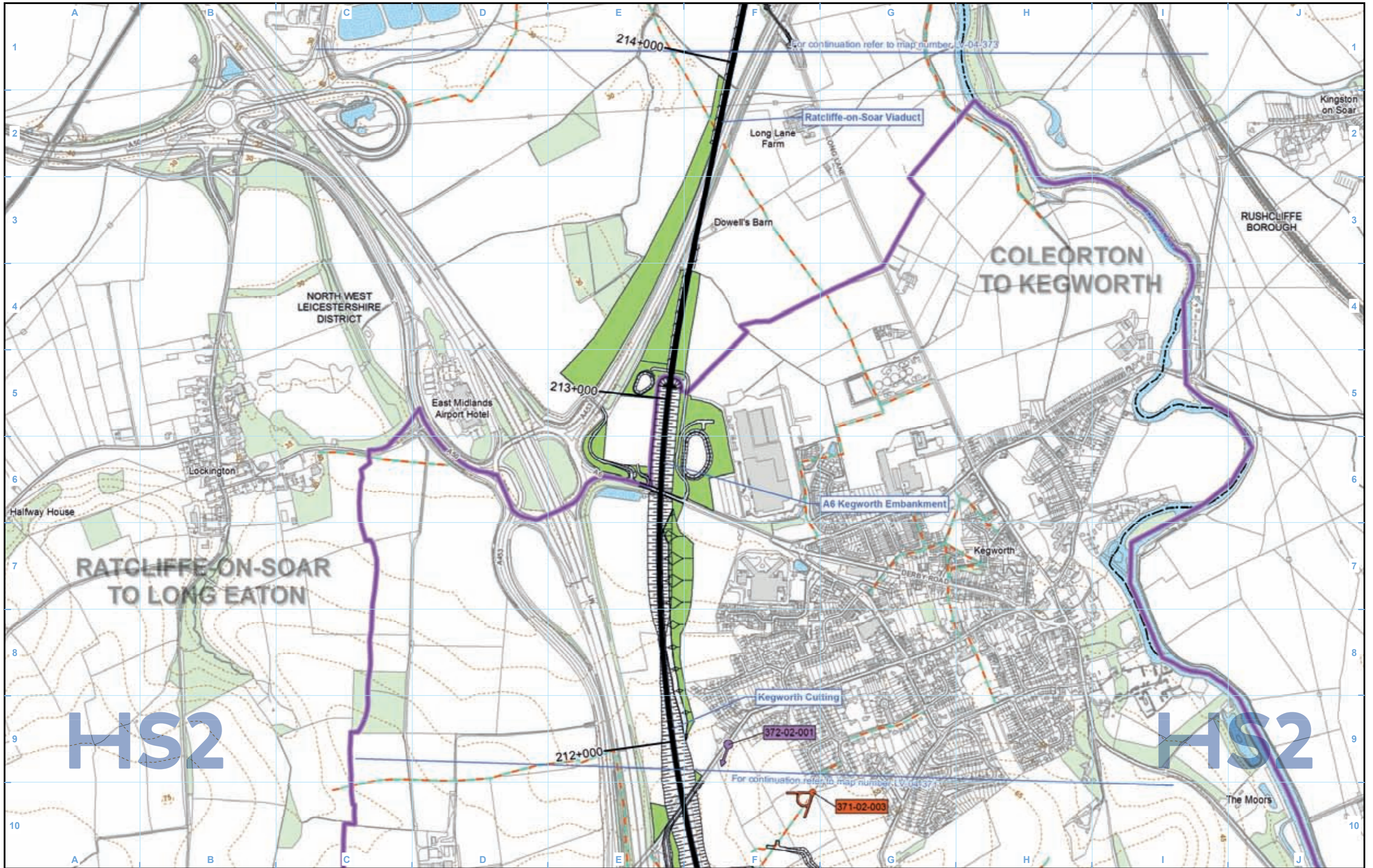
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Metres

Doc Number: 2DE02-ACI-EV-MAP-L001-001103-P07

Date: 31/07/18

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Legend

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| | Significantly affected viewpoint |
| | Photomontage location |
| | Significantly affected viewpoint number |
| | Photomontage viewpoint number |

Engineering earthworks:

| | |
|--|------------|
| | Embankment |
| | Cutting |

Non engineering earthworks:

| | |
|--|------------|
| | Embankment |
| | Cutting |

| | |
|------------|--|
| Map Number | LV-04-372a |
| Map Name | Operational Phase Significantly Affected Viewpoints WDES |
| | Community Area LA04: Coleorton to Kegworth |

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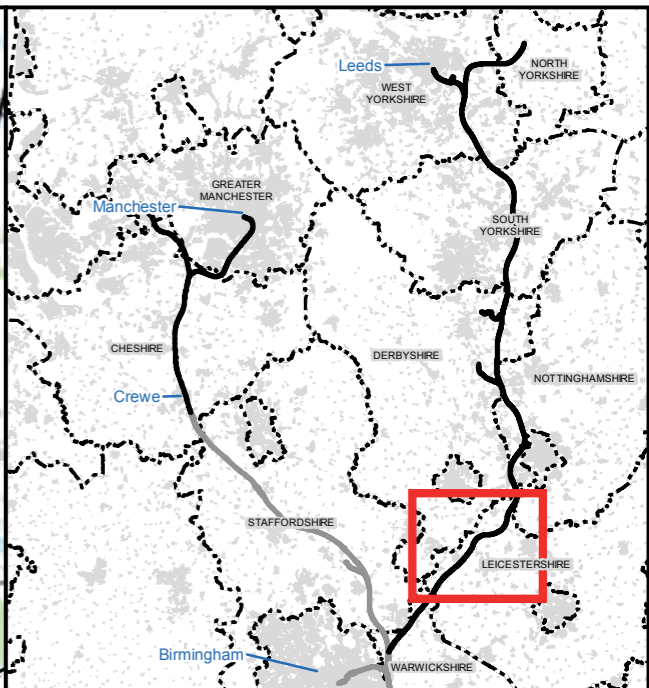
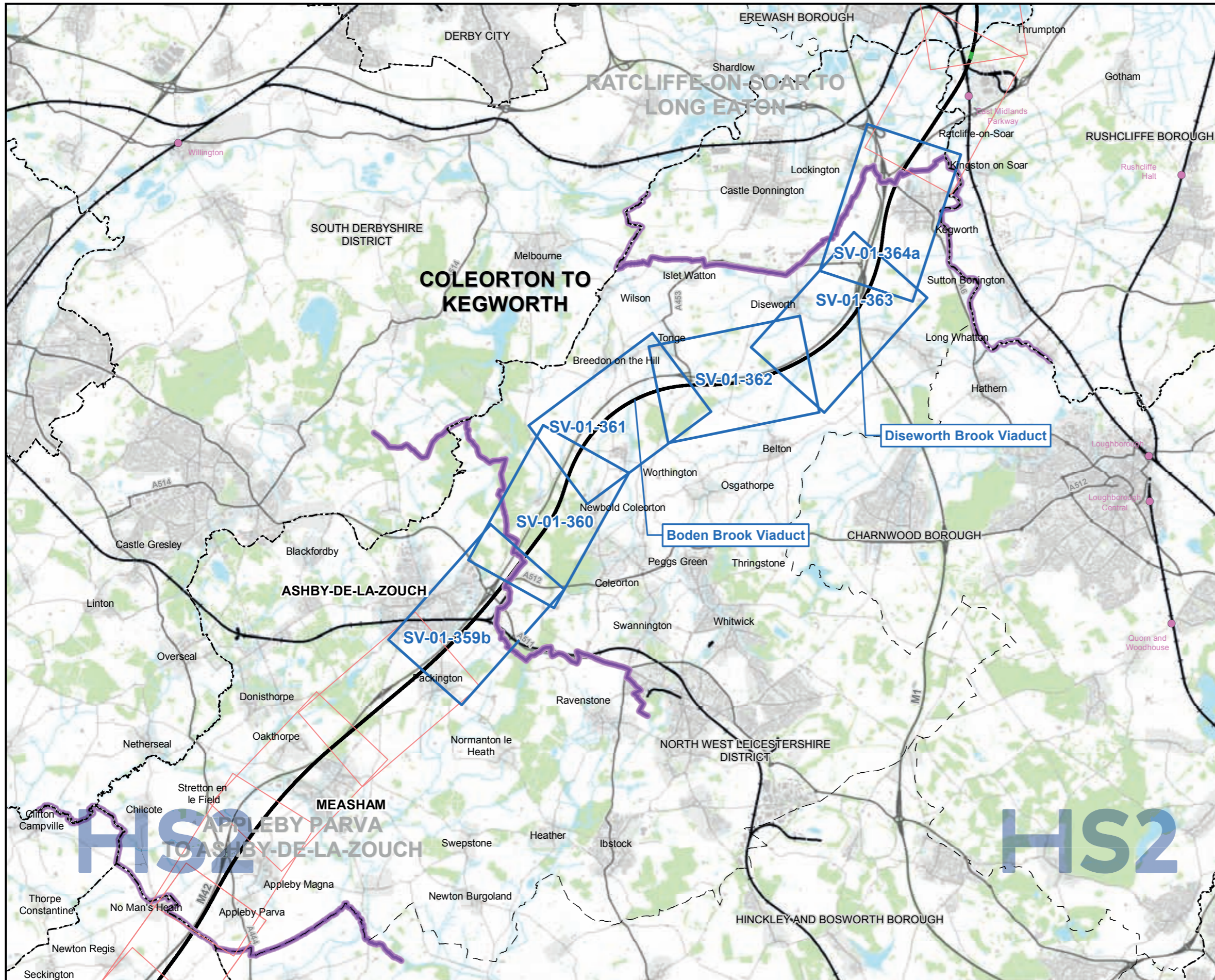
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HS2

High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

SV-01 – Operational Sound Contour Maps and
Likely Significant Effects



Map Series Information:

SV-01 presents the predicted operational noise from the new railway.

The noise levels from the new railway (expressed as $L_{pAeq,T}$) are presented in typical noise mapping colours in 5 dB steps. There is a panel at the top right of the figure; the left-hand section of this panel contains a key communicating the night-time and daytime noise levels represented by the various colours. The right-hand part of the same panel contains text explaining how the noise levels presented on the figure inform the assessment of likely significant effects.

Also presented on SV-01 are the following:

- a representation of the Proposed Scheme, including the railway alignment (indicating whether it is on the surface or in tunnel), any new and altered roads and all associated engineering and environmental mitigation earthworks;
- blue and green lines representing the wayside airborne noise mitigation measures included in the Proposed Scheme;
- star symbols representing where buildings would potentially qualify for noise insulation;
- labels identifying the residual likely significant noise effects of the Proposed Scheme.
- the extent of the study area within which the direct impacts and effects of the scheme have been assessed, and
- an indication of the key non-residential receptors which will be assessed further in the formal ES.

A more detailed explanation of each legend item included on the figures can be found in the data dictionary.

The design of the Proposed Scheme will be informed through stakeholder engagement and further engineering and environmental studies which will be reported as part of the formal ES.

Note: Not all data layers in the legend are represented on every map.

| Main Map Legend | |
|-----------------|--|
| | Route in tunnel |
| | Route in green tunnel |
| | Route on surface |
| | Depot, station, headhouse or portal building |
| | Community area boundary |
| | Existing railway station |
| | County boundary |
| | District/Borough boundary |
| | Map sheets included in this community area |
| | Map sheets not included in this community area |

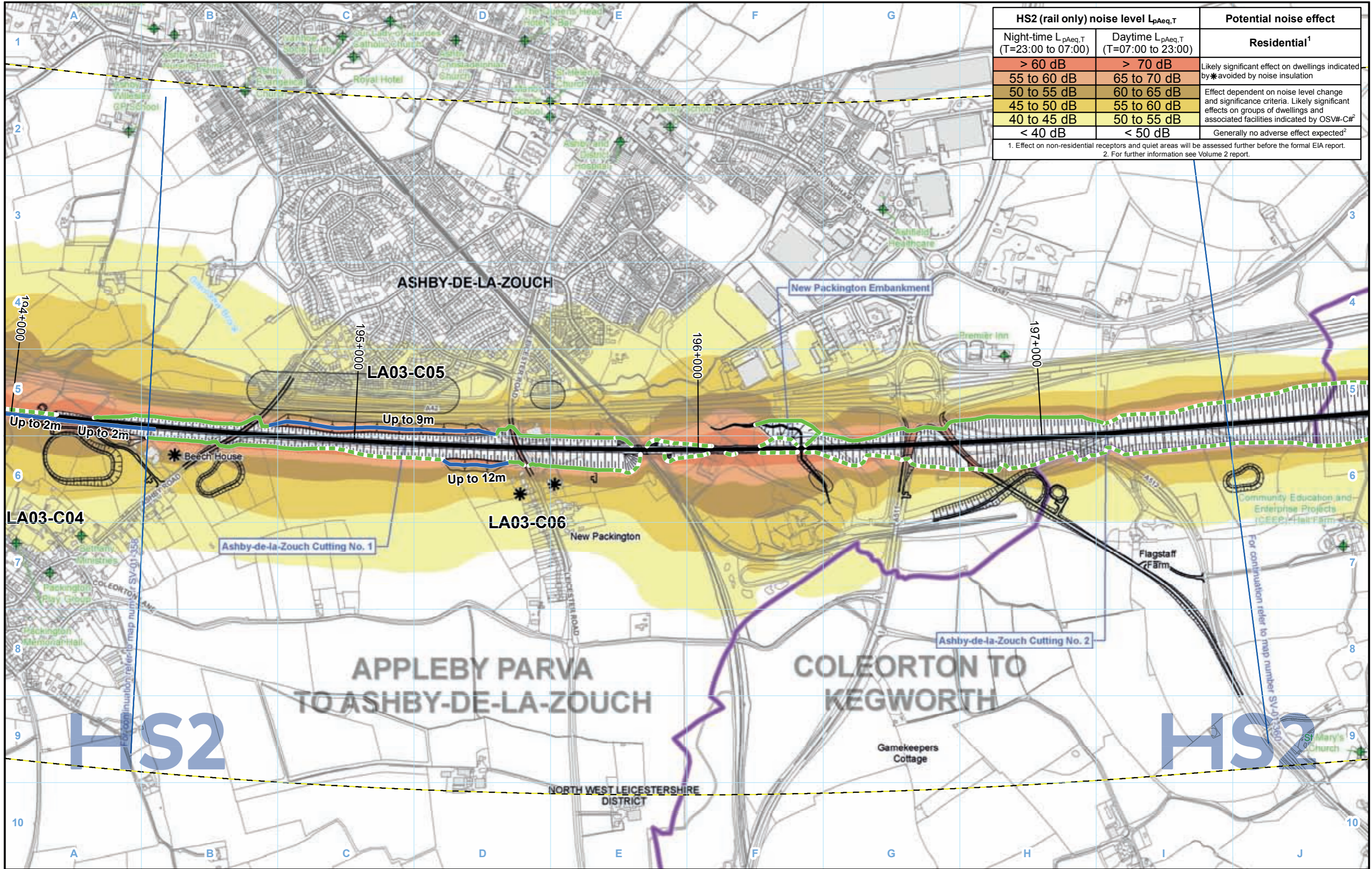
| | |
|------------|---|
| Map Number | SV-01-INDEX-LA04 |
| Map Name | Index Map of: Operational Noise Contour Maps and Likely Significant Effects WDES |
| | Community Area LA04: Coleorton to Kegworth |

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| HS2 (rail only) noise level L _{pAeq,T} | | Potential noise effect |
|--|---|---|
| Night-time L _{pAeq,T} (T=23:00 to 07:00) | Daytime L _{pAeq,T} (T=07:00 to 23:00) | Residential ¹ |
| > 60 dB | > 70 dB | Likely significant effect on dwellings indicated by * avoided by noise insulation |
| 55 to 60 dB | 65 to 70 dB | Effect dependent on noise level change and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ² |
| 50 to 55 dB | 60 to 65 dB | |
| 45 to 50 dB | 55 to 60 dB | |
| < 40 dB | < 50 dB | Generally no adverse effect expected ² |

1. Effect on non-residential receptors and quiet areas will be assessed further before the formal EIA report.
2. For further information see Volume 2 report.

- Legend - General features**
- Route in bored tunnel
 - Route in green tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

- Legend - Noise related features**
- Envisaged mitigation to avoid / reduce significant noise effects:
 - Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
 - Envisaged features further reducing noise effects:
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Airborne noise study area
 - Potential noise insulation qualifier
 - Key non-residential receptors identified for assessment
 - Noise Important Areas defined in national noise action plans (Defra 2014)
- * Labelled with total barrier height above rail level

Map Number: SV-01-359b
 Map Name: Operational Noise Contour Maps and Likely Significant Effects WDES
 Community Area LA04: Coleorton to Kegworth

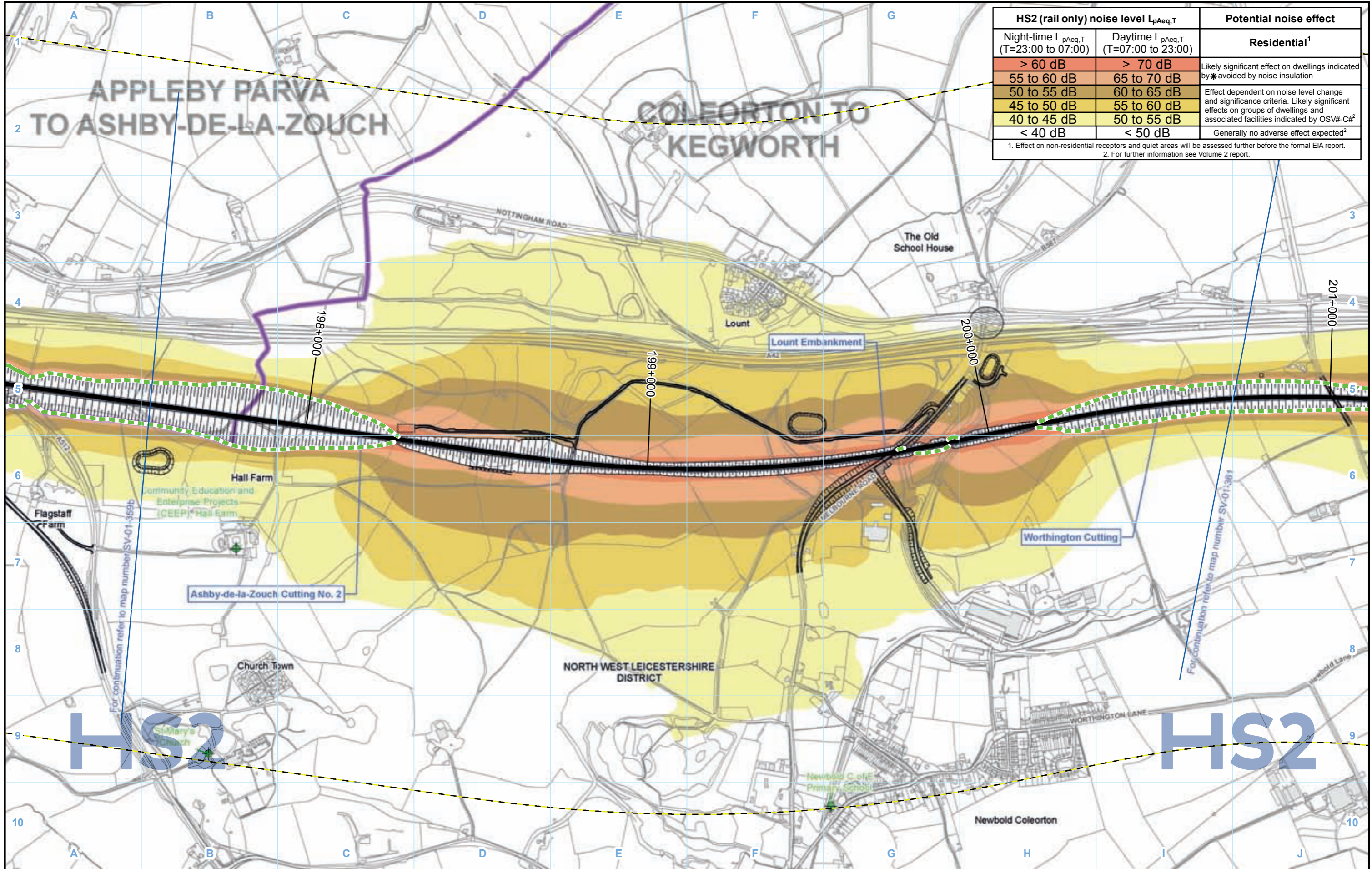
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| HS2 (rail only) noise level $L_{pAeq,T}$ | | Potential noise effect |
|---|--|---|
| Night-time $L_{pAeq,T}$ (T=23:00 to 07:00) | Daytime $L_{pAeq,T}$ (T=07:00 to 23:00) | Residential ¹ |
| > 60 dB | > 70 dB | Likely significant effect on dwellings indicated by * avoided by noise insulation |
| 55 to 60 dB | 65 to 70 dB | Effect dependent on noise level change and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ² |
| 50 to 55 dB | 60 to 65 dB | |
| 45 to 50 dB | 55 to 60 dB | |
| 40 to 45 dB | 50 to 55 dB | Generally no adverse effect expected ² |
| < 40 dB | < 50 dB | |

1. Effect on non-residential receptors and quiet areas will be assessed further before the formal EIA report.
2. For further information see Volume 2 report.

- Legend - General features**
- Route in bored tunnel
 - Route in green tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

- Legend - Noise related features**
- Envisaged mitigation to avoid / reduce significant noise effects:
 - Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
 - Envisaged features further reducing noise effects:
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Airborne noise study area
 - Potential noise insulation qualifier
 - Key non-residential receptors identified for assessment
 - Noise Important Areas defined in national noise action plans (Defra 2014)
- * Labelled with total barrier height above rail level

Map Number: SV-01-360

Map Name: Operational Noise Contour Maps and Likely Significant Effects WDES

Community Area LA04: Coleorton to Kegworth

HS2

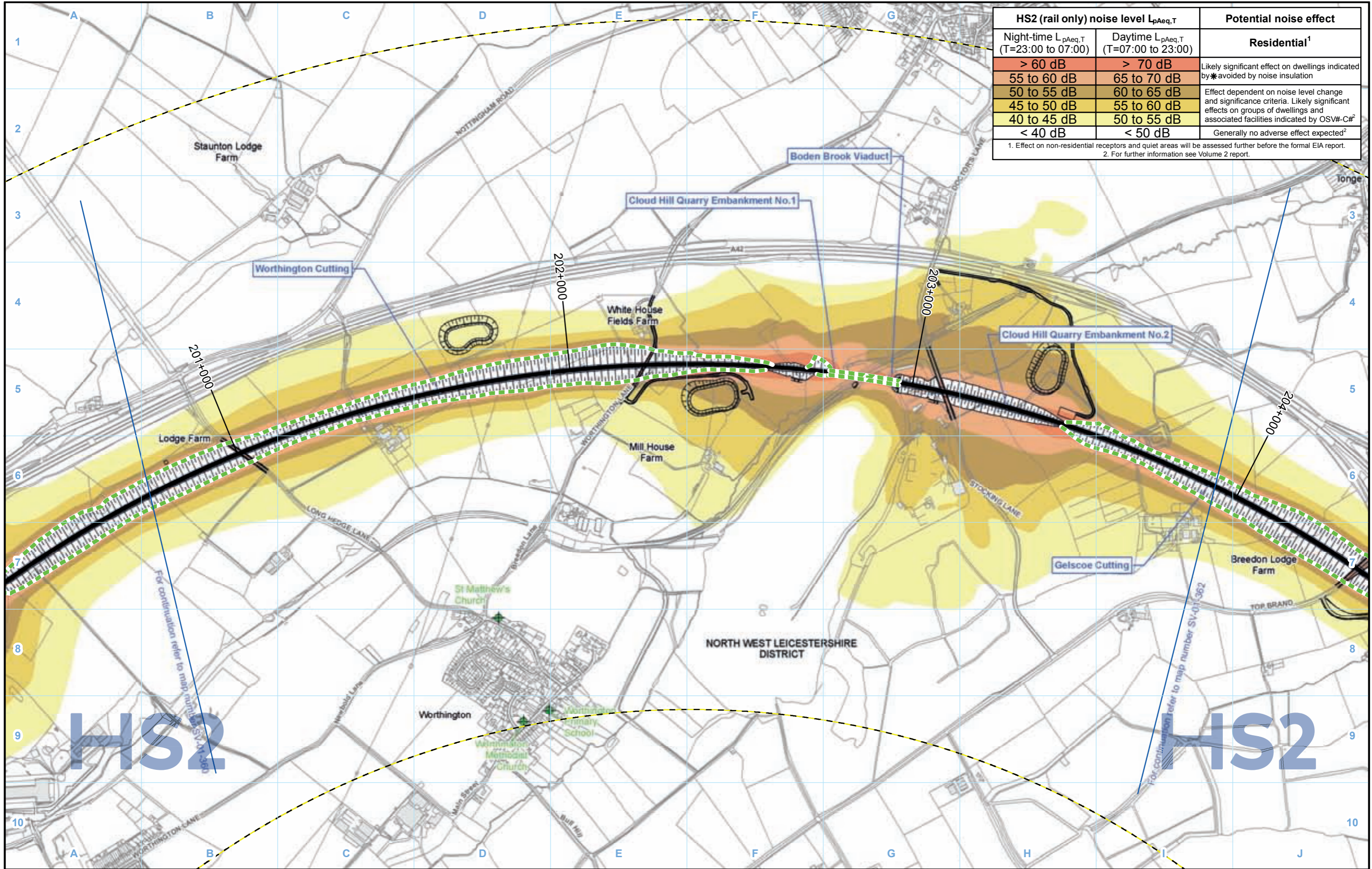
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Doc Number: 2DE02-ACI-EV-MAP-L001-001166-P05

Date: 13/07/18



| HS2 (rail only) noise level L _{pAeq,T} | | Potential noise effect |
|--|---|---|
| Night-time L _{pAeq,T} (T=23:00 to 07:00) | Daytime L _{pAeq,T} (T=07:00 to 23:00) | Residential ¹ |
| > 60 dB | > 70 dB | Likely significant effect on dwellings indicated by * avoided by noise insulation |
| 55 to 60 dB | 65 to 70 dB | Effect dependent on noise level change and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ² |
| 50 to 55 dB | 60 to 65 dB | |
| 45 to 50 dB | 55 to 60 dB | |
| 40 to 45 dB | 50 to 55 dB | Generally no adverse effect expected ² |
| < 40 dB | < 50 dB | |

1. Effect on non-residential receptors and quiet areas will be assessed further before the formal EIA report.
2. For further information see Volume 2 report.

- Legend - General features**
- Route in bored tunnel
 - Route in green tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

- Legend - Noise related features**
- Envisaged mitigation to avoid / reduce significant noise effects:
 - Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
 - Envisaged features further reducing noise effects:
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Airborne noise study area
 - Potential noise insulation qualifier
 - Key non-residential receptors identified for assessment
 - Noise Important Areas defined in national noise action plans (Defra 2014)
- * Labelled with total barrier height above rail level

Map Number: SV-01-361

Map Name: Operational Noise Contour Maps and Likely Significant Effects WDES

Community Area LA04: Coleorton to Kegworth

HS2

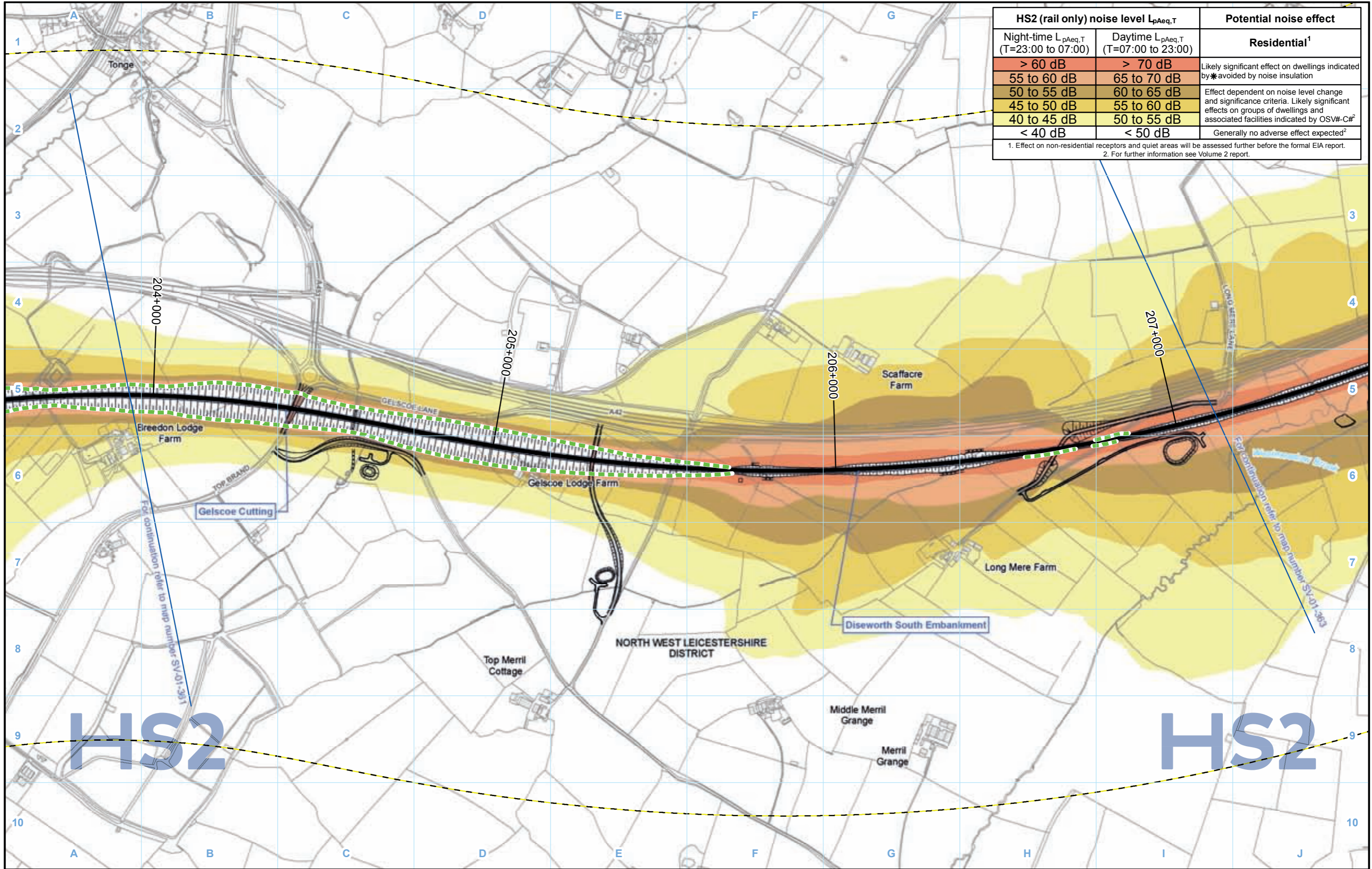
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Doc Number: 2DE02-ACI-EV-MAP-L001-001167-P05

Date: 13/07/18



| HS2 (rail only) noise level $L_{pAeq,T}$ | | Potential noise effect |
|---|--|---|
| Night-time $L_{pAeq,T}$ (T=23:00 to 07:00) | Daytime $L_{pAeq,T}$ (T=07:00 to 23:00) | Residential ¹ |
| > 60 dB | > 70 dB | Likely significant effect on dwellings indicated by * avoided by noise insulation |
| 55 to 60 dB | 65 to 70 dB | Effect dependent on noise level change and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ² |
| 50 to 55 dB | 60 to 65 dB | |
| 45 to 50 dB | 55 to 60 dB | |
| 40 to 45 dB | 50 to 55 dB | Generally no adverse effect expected ² |
| < 40 dB | < 50 dB | |

1. Effect on non-residential receptors and quiet areas will be assessed further before the formal EIA report.
2. For further information see Volume 2 report.

- Legend - General features**
- Route in bored tunnel
 - Route in green tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Legend - Noise related features**
- Engineering earthworks:
- Embankment
 - Cutting
- Non engineering earthworks:
- Embankment
 - Cutting

- Legend - Noise related features**
- Envisaged mitigation to avoid / reduce significant noise effects:
- Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged features further reducing noise effects:
- Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Airborne noise study area
 - Potential noise insulation qualifier
 - Key non-residential receptors identified for assessment
 - Noise Important Areas defined in national noise action plans (Defra 2014)
- * Labelled with total barrier height above rail level

Map Number: SV-01-362

Map Name: Operational Noise Contour Maps and Likely Significant Effects WDES

Community Area LA04: Coleorton to Kegworth

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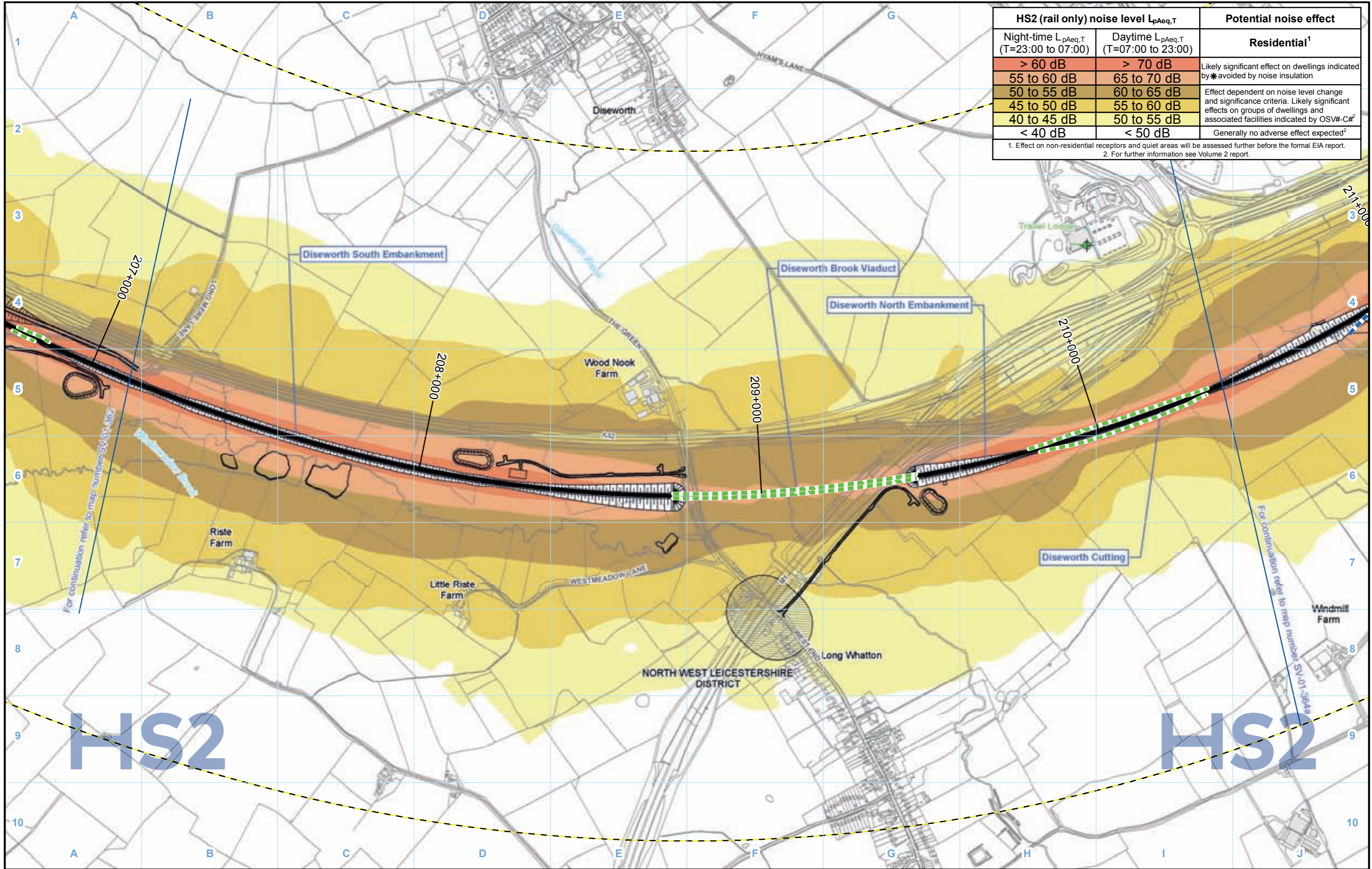
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Doc Number: 2DE02-ACI-EV-MAP-L001-001168-P05

Date: 13/07/18



| HS2 (rail only) noise level $L_{pAeq,T}$ | | Potential noise effect |
|---|--|---|
| Night-time $L_{pAeq,T}$ (T=23:00 to 07:00) | Daytime $L_{pAeq,T}$ (T=07:00 to 23:00) | Residential ¹ |
| > 60 dB | > 70 dB | Likely significant effect on dwellings indicated by * avoided by noise insulation |
| 55 to 60 dB | 65 to 70 dB | Effect dependent on noise level change and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ² |
| 50 to 55 dB | 60 to 65 dB | |
| 45 to 50 dB | 55 to 60 dB | |
| 40 to 45 dB | 50 to 55 dB | Generally no adverse effect expected ² |
| < 40 dB | < 50 dB | |

1. Effect on non-residential receptors and quiet areas will be assessed further before the formal EIA report.
2. For further information see Volume 2 report.

HS2

HS2

Legend - General features

- Route in bored tunnel
- Route in green tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary

- Engineering earthworks:
- Embankment
 - Cutting
- Non engineering earthworks:
- Embankment
 - Cutting

Legend - Noise related features

- Envisaged mitigation to avoid / reduce significant noise effects:
- Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged features further reducing noise effects:
- Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Airborne noise study area
- Potential noise insulation qualifier
- Key non-residential receptors identified for assessment
- Noise Important Areas defined in national noise action plans (Defra 2014)

* Labelled with total barrier height above rail level

Map Number: SV-01-363

Map Name: Operational Noise Contour Maps and Likely Significant Effects WDES

Community Area LA04: Coleorton to Kegworth

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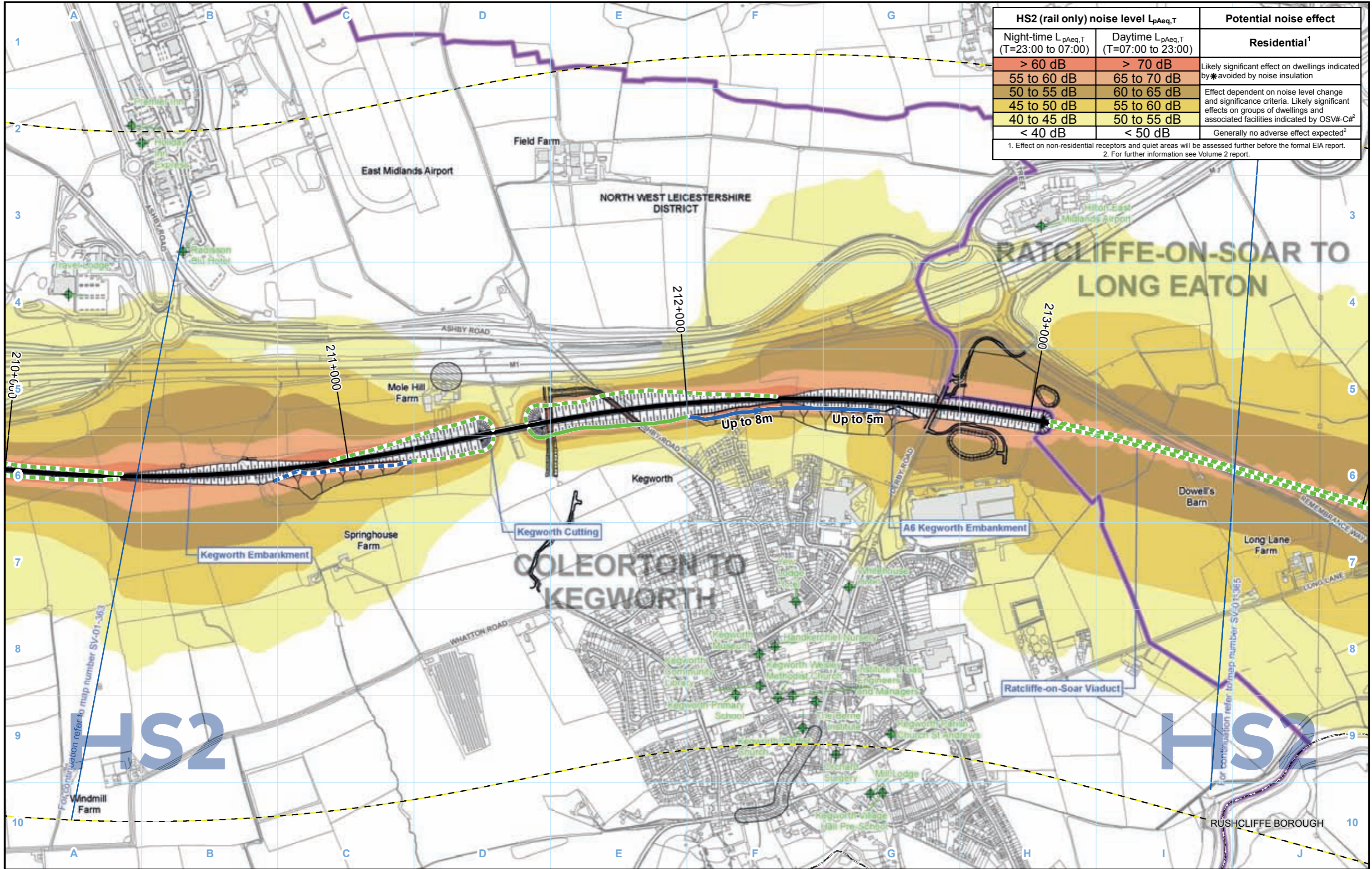
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Doc Number: 2DE02-ACI-EV-MAP-L001-001169-P05

Date: 13/07/18



| HS2 (rail only) noise level L _{pAeq,T} | | Potential noise effect |
|--|---|---|
| Night-time L _{pAeq,T} (T=23:00 to 07:00) | Daytime L _{pAeq,T} (T=07:00 to 23:00) | Residential ¹ |
| > 60 dB | > 70 dB | Likely significant effect on dwellings indicated by * avoided by noise insulation |
| 55 to 60 dB | 65 to 70 dB | Effect dependent on noise level change and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ² |
| 50 to 55 dB | 60 to 65 dB | |
| 45 to 50 dB | 55 to 60 dB | |
| 40 to 45 dB | 50 to 55 dB | Generally no adverse effect expected ² |
| < 40 dB | < 50 dB | |

1. Effect on non-residential receptors and quiet areas will be assessed further before the formal EIA report.
2. For further information see Volume 2 report.

- Legend - General features**
- Route in bored tunnel
 - Route in green tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Engineering earthworks:**
- Embankment
 - Cutting
- Non engineering earthworks:**
- Embankment
 - Cutting

- Legend - Noise related features**
- Envisaged mitigation to avoid / reduce significant noise effects:
- Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
- Envisaged features further reducing noise effects:
- Other environmental e.g. landscaping
 - Engineering e.g. cuttings

- Airborne noise study area
 - Potential noise insulation qualifier
 - Key non-residential receptors identified for assessment
 - Noise Important Areas defined in national noise action plans (Defra 2014)
- * Labelled with total barrier height above rail level

Map Number: SV-01-364a

Map Name: Operational Noise Contour Maps and Likely Significant Effects WDES

Community Area LA04: Coleorton to Kegworth

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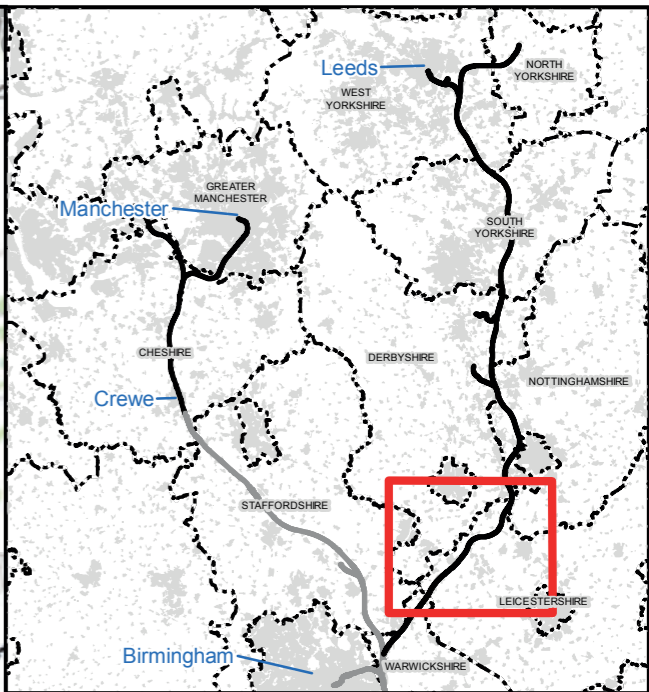
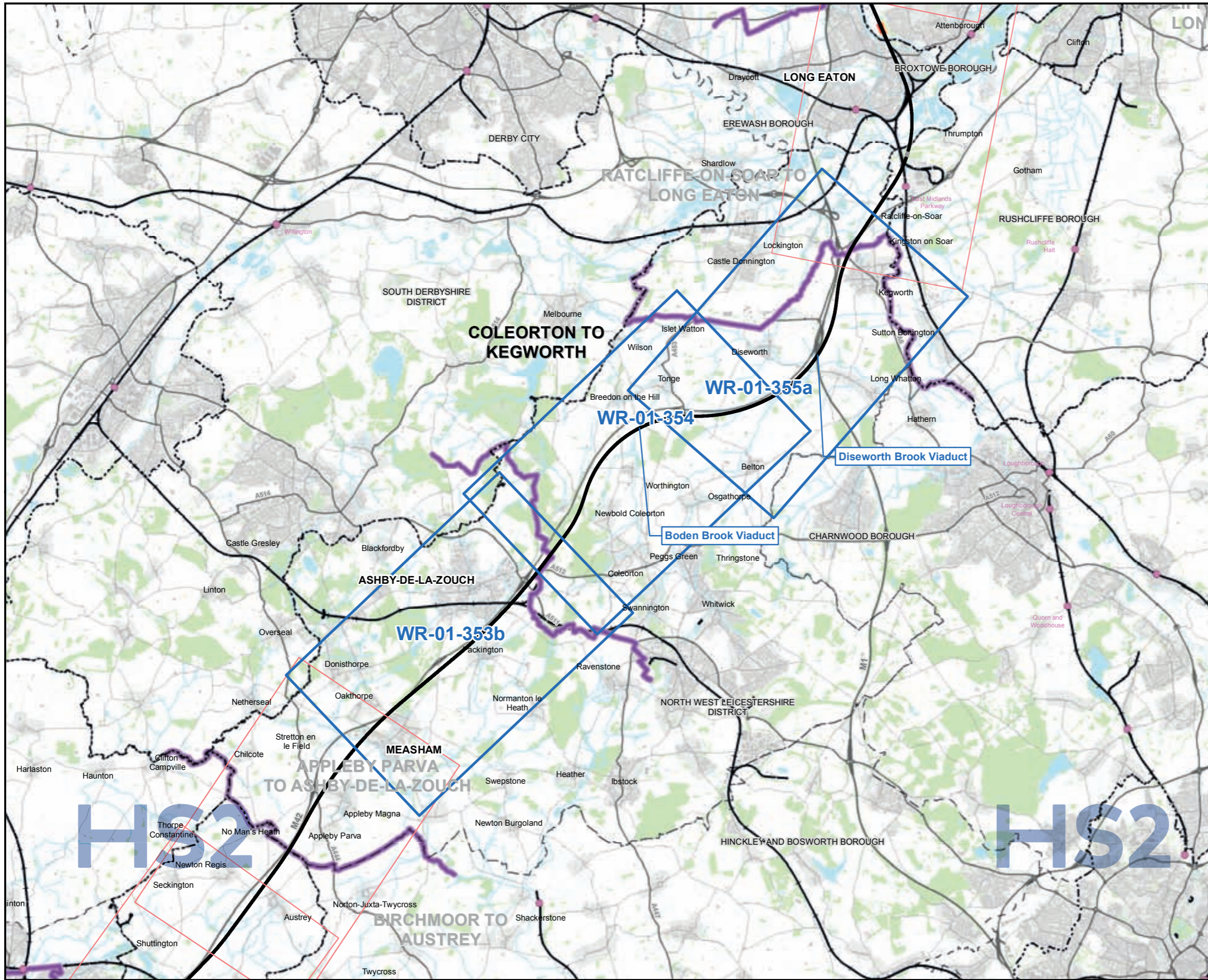
Date: 13/07/18

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High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

WR-01 – Surface Water Baseline



Map Series Information:

This map series shows surface water features such as rivers, streams, ponds, canals and reservoirs, flood zones, and surface water abstractions as referred to in the ES.

The design of the Proposed Scheme will be informed through stakeholder engagement and further engineering and environmental studies

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number **WR-01-INDEX-LA04**

Map Name **Index Map of:
Surface Water Baseline
WDES**

Community Area LA04:
Coleorton to Kegworth

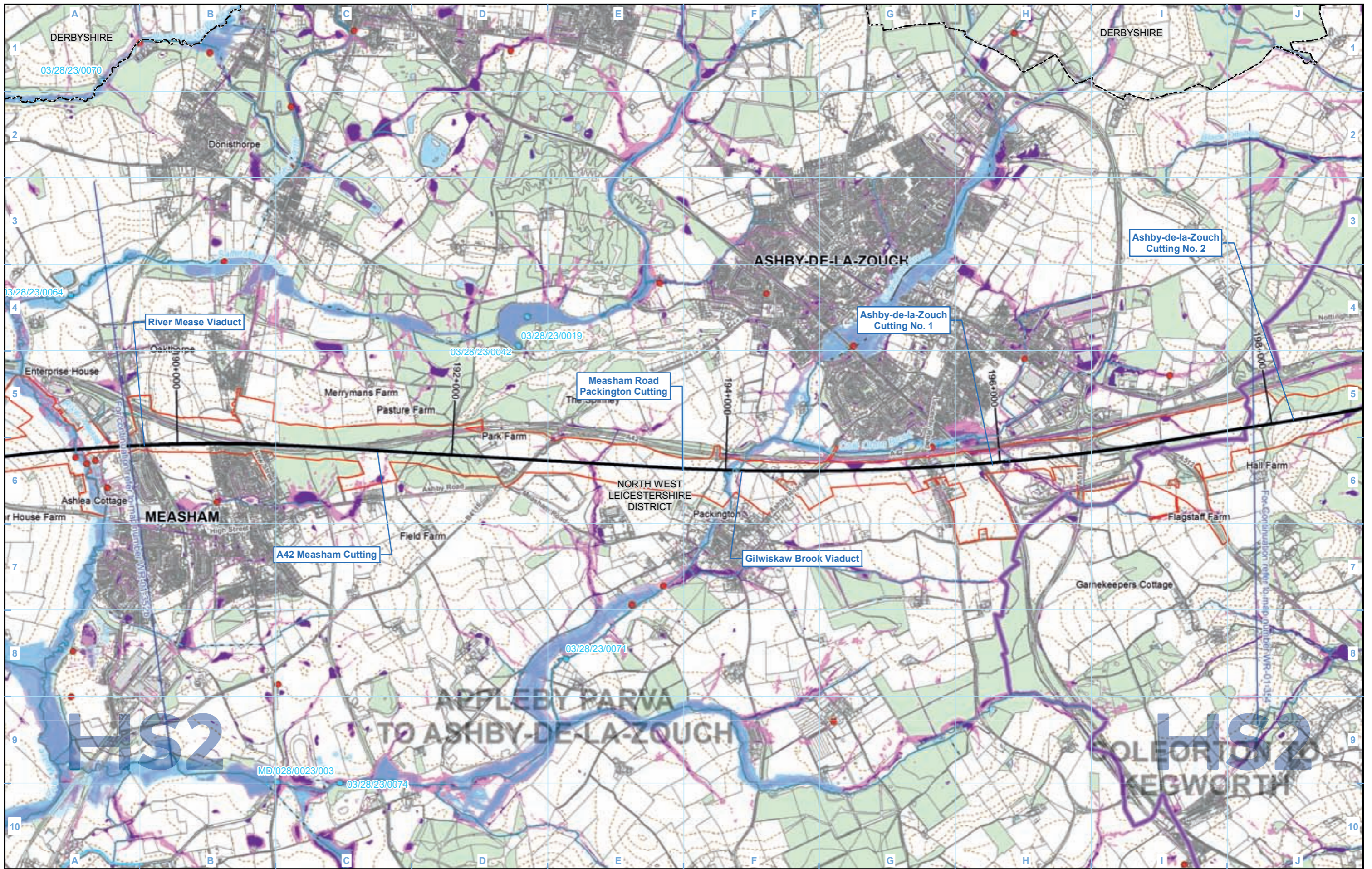
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Legend

| | | | |
|--|---|---|---|
| <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary | <ul style="list-style-type: none"> District/Borough boundary Licensed surface water abstraction (excluding public water supplies) Unlicensed private surface water abstraction Consented discharge to surface water Watercourse Culverted watercourse | <ul style="list-style-type: none"> Canal Canal tunnel Lakes & Reservoirs Historic flooding area | <p>Fluvial flood risk</p> <ul style="list-style-type: none"> Flood Zone 2 Flood Zone 3 <p>Risk of Flooding from Surface Water</p> <ul style="list-style-type: none"> High - chance of flooding greater than 1 in 30 (3.33%) Medium - chance of flooding between 1 in 100 (1%) and 1 in 30 (3.33%) Low - chance of flooding between 1 in 1000 (0.1%) and 1 in 100 (1%) |
|--|---|---|---|

Map Number: **WR-01-353b**

Map Name: **Surface Water Baseline WDES**

Community Area LA04:
Coleorton to Kegworth

HS2

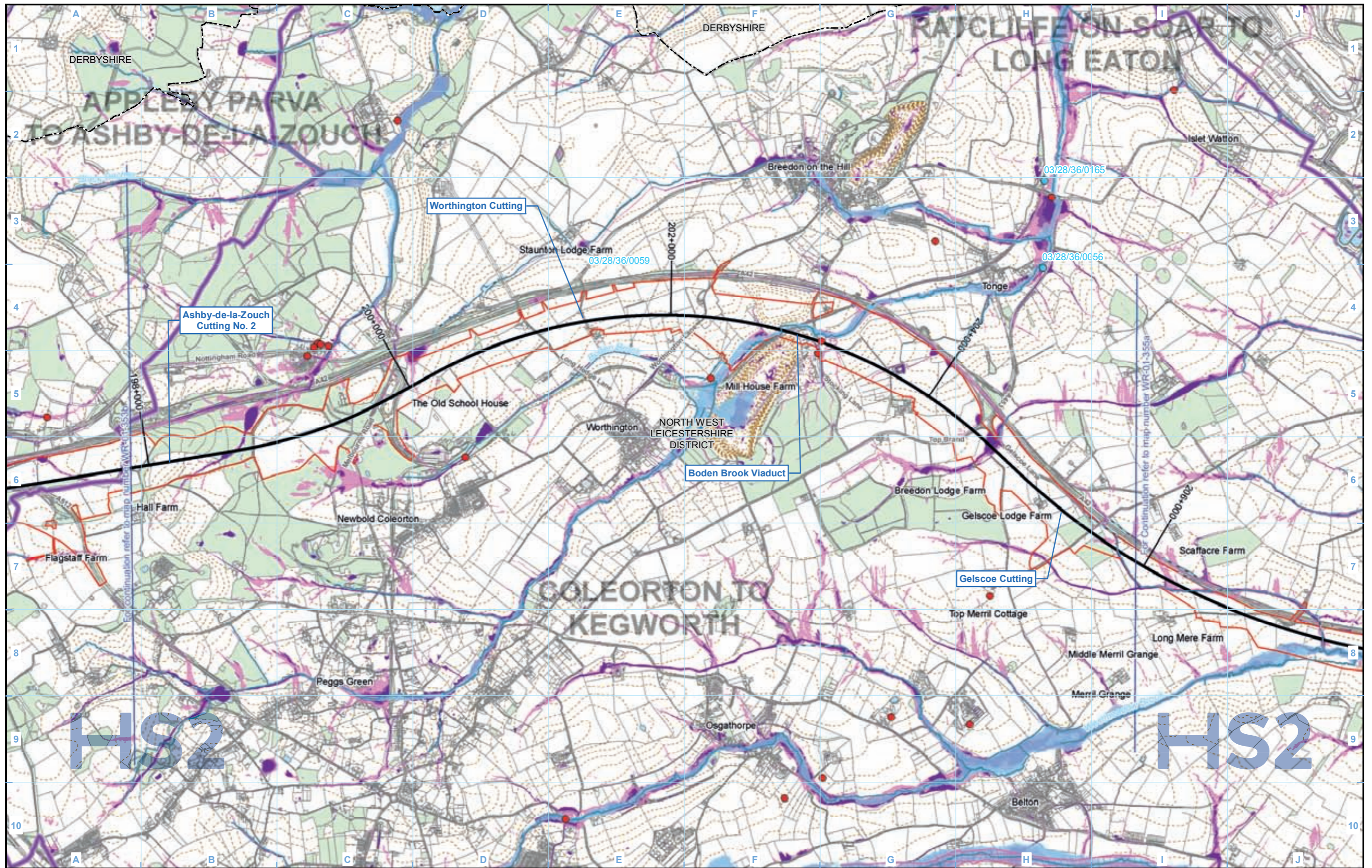
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Scale at A3: 1:25,000

Date: 31/07/18



Legend

| | | | |
|--|---|---|---|
| <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary | <ul style="list-style-type: none"> District/Borough boundary Licensed surface water abstraction (excluding public water supplies) Unlicensed private surface water abstraction Consented discharge to surface water Watercourse Culverted watercourse | <ul style="list-style-type: none"> Canal Canal tunnel Lakes & Reservoirs Historic flooding area | <p>Fluvial flood risk</p> <ul style="list-style-type: none"> Flood Zone 2 Flood Zone 3 <p>Risk of Flooding from Surface Water</p> <ul style="list-style-type: none"> High - chance of flooding greater than 1 in 30 (3.33%) Medium - chance of flooding between 1 in 100 (1%) and 1 in 30 (3.33%) Low - chance of flooding between 1 in 1000 (0.1%) and 1 in 100 (1%) |
|--|---|---|---|

Map Number: WR-01-354

Map Name: Surface Water Baseline WDES

Community Area LA04: Coleorton to Kegworth

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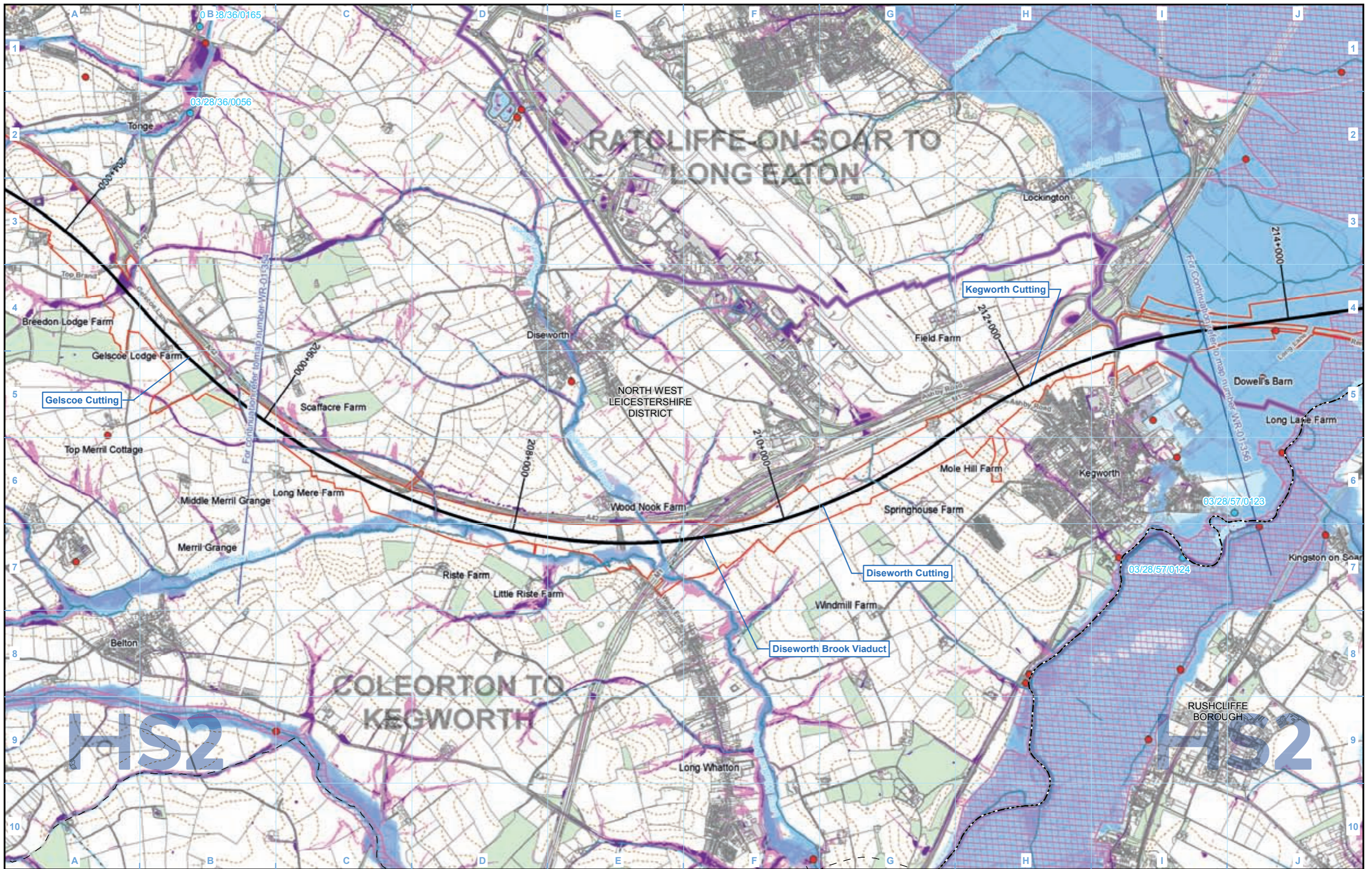
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Scale at A3: 1:25,000

0 250 500 750 1,000 Metres

Doc Number: 2DE02-ACI-EV-MAP-L001-001150-P06

Date: 13/07/18



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Licensed surface water abstraction (excluding public water supplies)
 - Unlicensed private surface water abstraction
 - Consented discharge to surface water
 - Watercourse
 - Culverted watercourse
 - Canal
 - Canal tunnel
 - Lakes & Reservoirs
 - Historic flooding area
 - Fluvial flood risk Flood Zone 2
 - Fluvial flood risk Flood Zone 3

- Risk of Flooding from Surface Water**
- High - chance of flooding greater than 1 in 30 (3.33%)
 - Medium - chance of flooding between 1 in 100 (1%) and 1 in 30 (3.33%)
 - Low - chance of flooding between 1 in 1000 (0.1%) and 1 in 100 (1%)

Map Number
WR-01-355a

Map Name
Surface Water Baseline WDES

Community Area LA04:
Coleorton to Kegworth

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Scale at A3: 1:25,000

0 250 500 750 1,000
Metres

Doc Number: 2DE02-ACI-EV-MAP-L001-001151-P06

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High Speed Rail (Crewe to Manchester and West Midlands to Leeds)

Working Draft Environmental Statement

WR-02 – Groundwater Baseline

Bedrock Geology

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|------------|---|-----------|--|--------------|--|
| BNT-MDLM | BARNSTONE MEMBER - MUDSTONE AND LIMESTONE, INTERBEDDED | HA-SDST | HALESOWEN FORMATION - SANDSTONE (Secondary A aquifer) | TRBR-SDST | TRENCHERBONE ROCK - SANDSTONE (Secondary A aquifer) |
| CTM-MDST | COTHAM MEMBER - MUDSTONE (Secondary Undifferentiated aquifer) | HANS-SDST | HANCHURCH SANDSTONE BED - SANDSTONE (Secondary A aquifer) | TUPR-SDST | TUPTON ROCK - SANDSTONE (Secondary A aquifer) |
| WBV-MDSI | WESTBURY FORMATION - MUDSTONE AND SILTSTONE (Secondary B aquifer) | HTS-SDST | HOLT TOWN SANDSTONE BED - SANDSTONE (Secondary A aquifer) | WGF-SDST | WINGFIELD FLAGS - SANDSTONE (Secondary A aquifer) |
| WBV-MDST | WESTBURY FORMATION - MUDSTONE (Secondary Undifferentiated aquifer) | SPPS-SDST | SPRINGPOOL SANDSTONE BED - SANDSTONE (Secondary A aquifer) | WH-SDST | WOODHEAD HILL ROCK - SANDSTONE (Secondary A aquifer) |
| BAN-MDST | BLUE ANCHOR FORMATION - MUDSTONE (Secondary B aquifer) | WIT-LMST | WHITACRE MEMBER - LIMESTONE (Principal aquifer) | ETM-MDSC | ETRURIA FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE (Secondary A aquifer) |
| BCMU-DLST | BRANSCOMBE MUDSTONE FORMATION - SILTSTONE, DOLOMITIC (Secondary B aquifer) | WIT-MDSD | WHITACRE MEMBER - MUDSTONE AND SANDSTONE (Principal aquifer) | ETM-SDST | ETRURIA FORMATION - SANDSTONE (Secondary A aquifer) |
| BCMU-MDST | BRANSCOMBE MUDSTONE FORMATION - MUDSTONE (Secondary B aquifer) | WIT-SDST | WHITACRE MEMBER - SANDSTONE (Principal aquifer) | ETM-STM | ETRURIA FORMATION - SANDSTONE AND MUDSTONE (Secondary A aquifer) |
| AS-SDSM | ARDEN SANDSTONE FORMATION - SANDSTONE, SILTSTONE AND MUDSTONE (Principal Aquifer) | ACR-SDST | ACKTON ROCK - SANDSTONE (Secondary A aquifer) | MGCY-SDST | UNNAMED SANDSTONE OF YEADONIAN AGE (IN MILLSTONE GRIT GROUP) - SANDSTONE |
| AS-SDST | ARDEN SANDSTONE FORMATION - SANDSTONE (Secondary A aquifer) | AR-SDST | ACKWORTH ROCK - SANDSTONE (Secondary A aquifer) | RF-SDST | ROUGH ROCK FLAGS - SANDSTONE |
| COT-SDST | COTGRAVE SANDSTONE MEMBER - SANDSTONE (Secondary A aquifer) | BADR-SDST | BADSWORTH ROCK - SANDSTONE (Secondary A aquifer) | ROSSE-MDSI | ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE (Secondary A aquifer) |
| EDW-DLST | EDWALTON MEMBER - SILTSTONE, DOLOMITIC (Secondary B aquifer) | BYR-SDST | BRIERLEY ROCK - SANDSTONE (Secondary A aquifer) | ROSSE-SDST | ROSSENDALE FORMATION - SANDSTONE (Secondary A aquifer) |
| EDW-MDST | EDWALTON MEMBER - MUDSTONE (Secondary B aquifer) | DLT-SDST | DALTON ROCK - SANDSTONE (Secondary A aquifer) | RY-SDST | ROUGH ROCK - SANDSTONE (Secondary A aquifer) |
| WHT-HAMD | WILKESLEY HALITE MEMBER - HALITE-STONE AND MUDSTONE (Unproductive) | GH-SDST | GLASS HOUGHTON ROCK - SANDSTONE (Secondary A aquifer) | ASG-SDST | ASHOVER GRIT - SANDSTONE (Secondary A aquifer) |
| DIS-SDST | DISEWORTH SANDSTONE - SANDSTONE (Secondary B aquifer) | MXR-SDST | MEXBOROUGH ROCK - SANDSTONE (Secondary A aquifer) | CHG-SDST | CHATSWORTH GRIT - SANDSTONE (Secondary A aquifer) |
| BOM-MDST | BOLLIN MUDSTONE MEMBER - MUDSTONE (Secondary B aquifer) | NEWR-SDST | NEWSTEAD ROCK - SANDSTONE (Secondary A aquifer) | EC-SDST | EAST CARLTON GRIT - SANDSTONE |
| BREE-BREC | BREEDON BRECCIA - BRECCIA (Secondary B aquifer) | NHSS-SDST | NEWTON HEATH SANDSTONE - SANDSTONE (Secondary A aquifer) | GSYG-SDST | GUISELEY GRIT - SANDSTONE |
| GUN-DLST | GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC (Secondary B aquifer) | NR-SDST | NOB END ROCK - SANDSTONE (Secondary A aquifer) | HDW-SDST | HUDDERSFIELD WHITE ROCK - SANDSTONE |
| GUN-MDST | GUNTHORPE MEMBER - MUDSTONE (Secondary B aquifer) | OPS-SDST | OPENSRAW SANDSTONE - SANDSTONE (Secondary A aquifer) | MARSD-MDSI | MARSDEN FORMATION - MUDSTONE AND SILTSTONE (Secondary A aquifer) |
| GUN-SDST | GUNTHORPE MEMBER - SANDSTONE (Secondary B aquifer) | PUCM-MDSS | PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary A aquifer) | MGCZ-SDST | UNNAMED SANDSTONE OF MARSDENIAN AGE (IN MILLSTONE GRIT GROUP) - SANDSTONE (Secondary A aquifer) |
| GUN-SLST | GUNTHORPE MEMBER - SILTSTONE (Secondary B aquifer) | PUCM-SDST | PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE (Secondary A aquifer) | MGG-SDST | MIDGLEY GRIT - SANDSTONE |
| HEY-MDST | HELSEY SANDSTONE FORMATION - MUDSTONE (Principal aquifer) | RVR-SDST | RAVENFIELD ROCK - SANDSTONE (Secondary A aquifer) | RE-SDST | REDMIRE FLAGS - SANDSTONE |
| HEY-PESST | HELSEY SANDSTONE FORMATION - SANDSTONE, PEBBLY (GRAVELLY) (Principal aquifer) | WDR-SDST | WORSLEY DELF ROCK - SANDSTONE (Secondary A aquifer) | AD-SDST | ADDELETHORPE GRIT - SANDSTONE |
| HEY-SDST | HELSEY SANDSTONE FORMATION - SANDSTONE (Principal aquifer) | WYR-SDST | WICKERSLEY ROCK - SANDSTONE (Secondary A aquifer) | AE-SDST | ADDINGHAM EDGE GRIT - SANDSTONE |
| NWHF-HAMD | NORTHWICH HALITE MEMBER - HALITE-STONE AND MUDSTONE (Unproductive) | ABR-SDST | ABDY ROCK - SANDSTONE (Secondary A aquifer) | DSS-SDST | DOUBLER STONES SANDSTONE - SANDSTONE |
| RDCF-MDSI | RADCLIFFE MEMBER - MUDSTONE AND SILTSTONE (Secondary B aquifer) | BAR-SDST | BARDSLEY ROCK - SANDSTONE (Secondary A aquifer) | HMSA-SDST | HIGH MOOR SANDSTONE - SANDSTONE |
| RDCF-MDST | RADCLIFFE MEMBER - MUDSTONE (Secondary Undifferentiated aquifer) | BNR-SDST | BARNESLEY ROCK - SANDSTONE | LPG-SDST | LOWER PLOMPTON GRIT - SANDSTONE |
| RDCF-SLST | RADCLIFFE MEMBER - SILTSTONE (Secondary B aquifer) | CRRO-SDST | CRIGGESTONE ROCK - SANDSTONE (Secondary A aquifer) | LRSS-SDST | LONG RIDGE SANDSTONE - SANDSTONE |
| SHSA-MDST | SHEPshed SANDSTONE MEMBER - MUDSTONE (Principal aquifer) | HMR-SDST | HAIGH MOOR ROCK - SANDSTONE (Secondary A aquifer) | MGCK-SDST | UNNAMED SANDSTONE OF KINDERSCOUTIAN AGE (IN MILLSTONE GRIT GROUP) - SANDSTONE (Secondary A aquifer) |
| SHSA-SDST | SHEPshed SANDSTONE MEMBER - SANDSTONE (Principal aquifer) | HNC-SDST | HUNCLIFFE ROCK - SANDSTONE (Secondary A aquifer) | UPG-SDST | UPPER PLOMPTON GRIT - SANDSTONE |
| CHES-MDST | CHESTER FORMATION - MUDSTONE (Principal aquifer) | HRR-SDST | HORBURY ROCK - SANDSTONE (Secondary A aquifer) | UF-SDST | UPPER FOLLIFOOT GRIT - SANDSTONE |
| CHES-PESST | CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY) (Principal Aquifer) | KNR-SDST | KENT'S ROCK - SANDSTONE | MORRI-MDSS | MORRIDGE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary A aquifer) |
| CHES-SCON | CHESTER FORMATION - SANDSTONE AND CONGLOMERATE, INTERBEDDED (Principal aquifer) | OR-SDST | OAKS ROCK - SANDSTONE (Secondary A aquifer) | MG-MDSS | MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary A aquifer) |
| CHES-SDST | CHESTER FORMATION - SANDSTONE (Principal aquifer) | PMCM-MDSS | PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary A aquifer) | MG-SDST | MILLSTONE GRIT GROUP [SEE ALSO MIGR] - SANDSTONE (Secondary A aquifer) |
| SIM-DLST | SIDMOUTH MUDSTONE FORMATION - SILTSTONE, DOLOMITIC (Secondary Undifferentiated aquifer) | PMCM-SDST | PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE (Secondary A aquifer) | EYL-LMST | EYAM LIMESTONE FORMATION - LIMESTONE (Principal aquifer) |
| SIM-MDST | SIDMOUTH MUDSTONE FORMATION - MUDSTONE (Secondary B aquifer) | PMR-SDST | PEMBERTON ROCK - SANDSTONE (Secondary A aquifer) | EYLK-LMST | EYAM LIMESTONES FORMATION (KNOLL-REEF) - LIMESTONE |
| TPSF-MDSI | TARPORLEY SILTSTONE FORMATION - MUDSTONE AND SILTSTONE (Secondary Undifferentiated aquifer) | PR-SDST | PEEL HALL ROCK - SANDSTONE (Secondary A aquifer) | MO-LMST | MONSAL DALE LIMESTONE FORMATION - LIMESTONE |
| TPSF-MDSS | TARPORLEY SILTSTONE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary B aquifer) | THR-SDST | TOP HARD ROCK - SANDSTONE (Secondary A aquifer) | TIL-LMST | TICKNALL LIMESTONE FORMATION - LIMESTONE (Principal aquifer) |
| TPSF-MDST | TARPORLEY SILTSTONE FORMATION - MUDSTONE (Secondary B aquifer) | TR-SDST | THORNHILL ROCK - SANDSTONE (Secondary A aquifer) | BSG-MDSS | BOWLAND SHALE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary A aquifer) |
| TPSF-SDST | TARPORLEY SILTSTONE FORMATION - SANDSTONE (Secondary A aquifer) | WE-SDST | WOOLLEY EDGE ROCK - SANDSTONE (Secondary A aquifer) | FV-TUF | FALLGATE VOLCANIC FORMATION - TUFF (Secondary B aquifer) |
| TPSF-SIMS | TARPORLEY SILTSTONE FORMATION - SILTSTONE, MUDSTONE AND SANDSTONE (Secondary B aquifer) | BLR-SDST | BLENFIRE ROCK - SANDSTONE (Secondary A aquifer) | WDF-LSMD | WIDMERPOOL FORMATION - LIMESTONE AND MUDSTONE, INTERBEDDED (Secondary A aquifer) |
| TPSF-SISD | TARPORLEY SILTSTONE FORMATION - SILTSTONE AND SANDSTONE (Secondary B aquifer) | BRSR-SDST | BIRSTALL ROCK - SANDSTONE | WDF-MDST | WIDMERPOOL FORMATION - MUDSTONE (Secondary Undifferentiated aquifer) |
| KNSF-SDST | KINNERTON SANDSTONE FORMATION - SANDSTONE (Principal aquifer) | CAR-SDST | CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE (Secondary A aquifer) | CLHD-DLMDM | CLOUD HILL DOLOSTONE FORMATION - DOLOSTONE (Principal aquifer) |
| MMG-MDST | MERCIA MUDSTONE GROUP - MUDSTONE (Secondary B aquifer) | CHBR-SDST | CHAMBER ROCK - SANDSTONE (Secondary A aquifer) | CLHD-DOLO | CLOUD HILL DOLOSTONE FORMATION - DOLOSTONE (Principal aquifer) |
| WLSF-SDST | WILMSLOW SANDSTONE FORMATION - SANDSTONE (Principal aquifer) | CLRK-SDST | CLIFTON ROCK - SANDSTONE (Secondary A aquifer) | MI-DOLO | MILLDALE LIMESTONE FORMATION - DOLOSTONE (Principal aquifer) |
| WRS-SDST | WILDMOOR SANDSTONE MEMBER - SANDSTONE (Principal aquifer) | CRS-SDST | CRAWSHAW SANDSTONE - SANDSTONE (Secondary A aquifer) | MI-LMST | MILLDALE LIMESTONE FORMATION - LIMESTONE (Principal aquifer) |
| BTH-DOLMST | BROTHERTON FORMATION - LIMESTONE, DOLOMITIC (Principal Aquifer) | DHR-SDST | DEEP HARD ROCK - SANDSTONE (Secondary A aquifer) | MMI-LMPY | MIDLANDS MINOR INTRUSIVE SUITE - LAMPROPHYRES (Secondary B aquifer) |
| CDF-CAMDST | CADEBY FORMATION - MUDSTONE, CALCAREOUS (Principal aquifer) | EF-SDST | ELLAND FLAGS - SANDSTONE (Secondary A aquifer) | MPSH-MDST | MONKS PARK SHALE FORMATION - MUDSTONE (Secondary B aquifer) |
| CDF-DOLO | CADEBY FORMATION - DOLOSTONE (Principal Aquifer) | ER-SDST | EMLEY ROCK - SANDSTONE (Secondary A aquifer) | MVSH-MDST | MEREVALE SHALE FORMATION - MUDSTONE (Secondary B aquifer) |
| CDF-MDST | CADEBY FORMATION - MUDSTONE (Principal aquifer) | GM-SDST | GREENMOOR ROCK - SANDSTONE (Secondary A aquifer) | BLK-VCBR | BLACKBROOK RESERVOIR FORMATION - VOLCANICLASTIC-BRECCIA (Secondary B aquifer) |
| EDT-CAMDST | EDLINGTON FORMATION - MUDSTONE, CALCAREOUS (Secondary B aquifer) | GR-SDST | GRENSIDE SANDSTONE - SANDSTONE (Secondary A aquifer) | BLK-VCSST | BLACKBROOK RESERVOIR FORMATION - VOLCANICLASTIC-SANDSTONE (Secondary B aquifer) |
| EDT-MDSD | EDLINGTON FORMATION - MUDSTONE AND SANDSTONE (Secondary B aquifer) | KKBS-SDST | KIRKBURTON SANDSTONE - SANDSTONE (Secondary A aquifer) | BLK-VLSS | BLACKBROOK RESERVOIR FORMATION - VOLCANICLASTIC ROCKS (BOTH PYROCLASTIC & REWORKED VOLCANIC ROCKS) (Secondary B aquifer) |
| LNS-SDST | LENTON SANDSTONE FORMATION - SANDSTONE (Secondary B aquifer) | LER-SDST | LOXLEY EDGE ROCK - SANDSTONE (Secondary A aquifer) | CMBT-VCVSLST | BRADGATE FORMATION - VOLCANICLASTIC-SILTSTONE (Secondary B aquifer) |
| MM-MDST | MANCHESTER MARLS FORMATION - MUDSTONE (Secondary B aquifer) | MBR-SDST | MIDDLE BAND ROCK - SANDSTONE | CMCL-PYRBR | CHARNWOOD LODGE VOLCANIC FORMATION - PYROCLASTIC-BRECCIA (Secondary B aquifer) |
| MOI-BREC | MOIRA FORMATION - BRECCIA (Principal aquifer) | OL-SDST | OLD LAWRENCE ROCK - SANDSTONE (Secondary A aquifer) | CMCL-VCBR | CHARNWOOD LODGE VOLCANIC FORMATION - VOLCANICLASTIC-BRECCIA (Secondary B aquifer) |
| MOI-MDST | MOIRA FORMATION - MUDSTONE (Principal aquifer) | PKR-SDST | PARKGATE ROCK - SANDSTONE (Secondary A aquifer) | CVB-PYRBR | CADEMAN VOLCANIC BRECCIA MEMBER - PYROCLASTIC-BRECCIA (Secondary B aquifer) |
| ROX-CAMDST | ROXBY FORMATION - MUDSTONE, CALCAREOUS (Secondary B aquifer) | PLCM-MDSI | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE AND SILTSTONE (Secondary A aquifer) | GYA-AND | GRIMLEY ANDESITE - ANDESITE (Secondary B aquifer) |
| SSG-SDST | SHERWOOD SANDSTONE GROUP - SANDSTONE (Principal Aquifer) | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary A aquifer) | IVH-TFASST | IVES HEAD FORMATION - TUFFACEOUS-SANDSTONE (Secondary B aquifer) |
| CS-SDST | COLLYHURST SANDSTONE FORMATION - SANDSTONE (Principal aquifer) | PLCM-MDST | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE (Secondary A aquifer) | IVH-VCSST | IVES HEAD FORMATION - VOLCANICLASTIC-SANDSTONE (Secondary B aquifer) |
| HPBR-BREC | HOPWAS BRECCIA FORMATION - BRECCIA (Principal aquifer) | PLCM-SDST | PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE (Secondary A aquifer) | KHT-PYRBR | KITE HILL TUFF MEMBER - PYROCLASTIC-BRECCIA (Secondary B aquifer) |
| HPBR-BRSS | HOPWAS BRECCIA FORMATION - BRECCIA AND SANDSTONE, INTERBEDDED (Principal aquifer) | RHR-SDST | RAVENHEAD ROCK - SANDSTONE (Secondary A aquifer) | PLD-VCBR | PELDAR DACITE BRECCIA - VOLCANICLASTIC-BRECCIA (Secondary B aquifer) |
| YWS-SDST | YELLOW SANDS FORMATION - SANDSTONE (Principal Aquifer) | SBF-SDST | SOFT BED FLAGS - SANDSTONE (Secondary A aquifer) | SQBR-VCBR | SOUTH QUARRY BRECCIA MEMBER - VOLCANICLASTIC-BRECCIA (Secondary B aquifer) |
| ALY-MDSD | ALVELEY MEMBER - MUDSTONE AND SANDSTONE (Secondary A aquifer) | SBR-SDST | SLACK BANK ROCK - SANDSTONE (Secondary A aquifer) | RY-VCBR | SWANNYMOTE BRECCIA MEMBER - VOLCANICLASTIC-BRECCIA (Secondary B aquifer) |
| ALY-SDST | ALVELEY MEMBER - SANDSTONE (Secondary A aquifer) | SR-SDST | SILKSTONE ROCK - SANDSTONE (Secondary A aquifer) | SYP-DA | SHARPLEY PORPHYRITIC DACITE - DACITE (Secondary B aquifer) |
| GML-LMST | GREAT MINE LIMESTONE - LIMESTONE (Secondary A aquifer) | STNR-SDST | STANNINGLEY ROCK - SANDSTONE (Secondary A aquifer) | | |
| HA-LMST | HALESOWEN FORMATION - LIMESTONE (Principal aquifer) | TKS-SDST | THICK STONE - SANDSTONE (Secondary A aquifer) | | |
| HA-MDSS | HALESOWEN FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE (Secondary A aquifer) | | | | |

Map Number

WR-02 - Legend

Map Name

WR-02 - Full Geological Legend with Rock Unit Names and Aquifer Status



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Superficial Deposits

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| ALV-XCZ | ALLUVIUM - CLAY AND SILT (Secondary A aquifer) |
| ALV-XCZSV | ALLUVIUM - CLAY, SILT, SAND AND GRAVEL (Secondary A aquifer) |
| ALV-XVZSC | ALLUVIUM - GRAVEL, SAND, SILT AND CLAY (Secondary A aquifer) |
| LABD-XSV | LACUSTRINE BEACH DEPOSITS - SAND AND GRAVEL (Secondary A aquifer) |
| TFD-XCZS | TIDAL FLAT DEPOSITS - CLAY, SILT AND SAND (Secondary Undifferentiated aquifer) |
| BREI-S | BREIGHTON SAND FORMATION - SAND (Secondary A aquifer) |
| ESKRM-CSV | ESCRICK MORaine MEMBER - CLAY, SANDY, GRAVELLY (Secondary Undifferentiated aquifer) |
| GFDUD-XSV | GLACIOFLUVIAL DEPOSITS, DEVENSIAN - SAND AND GRAVEL (Secondary A aquifer) |
| GFICD-XSV | GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN - SAND AND GRAVEL (Secondary A aquifer) |
| GFSDD-XSV | GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN - SAND AND GRAVEL (Secondary A aquifer) |
| GFTDD-XSV | GLACIOFLUVIAL TERRACE DEPOSITS, DEVENSIAN - SAND AND GRAVEL (Secondary A aquifer) |
| GLLDD-C | GLACIOLACUSTRINE DEPOSITS, DEVENSIAN - CLAY (Secondary A aquifer) |
| GLLDD-S | GLACIOLACUSTRINE DEPOSITS, DEVENSIAN - SAND (Secondary A aquifer) |
| GLLDD-XCZ | GLACIOLACUSTRINE DEPOSITS, DEVENSIAN - CLAY AND SILT (Unproductive) |
| HEM-CZ | HEMINGBROUGH GLACIOLACUSTRINE FORMATION - CLAY, SILTY (Unproductive) |
| HMGDD-DMTN | HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN - DIAMICTON (Secondary Undifferentiated aquifer) |
| HMGDD-XSV | HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN - SAND AND GRAVEL (Secondary A aquifer) |
| SSA-S | SHIRDLEY HILL SAND FORMATION - SAND (Secondary A aquifer) |
| SYSG-XSV | SYSTON MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| TILDI-DMTN | TILL, DEVENSIAN (IRISH SEA ICE) - DIAMICTON (Secondary Undifferentiated aquifer) |
| TILLD-CSVZ | TILL, DEVENSIAN - CLAY, SANDY, GRAVELLY, SILTY (Secondary Undifferentiated aquifer) |
| TILLD-DMTN | TILL, DEVENSIAN - DIAMICTON (Secondary Undifferentiated aquifer) |
| TILLD-XCS | TILL, DEVENSIAN - CLAY AND SAND (Secondary A aquifer) |
| TILLD-XCSV | TILL, DEVENSIAN - CLAY, SAND AND GRAVEL (Secondary B aquifer) |
| TILLD-XDSV | TILL, DEVENSIAN - DIAMICTON, SAND AND GRAVEL (Secondary Undifferentiated aquifer) |
| VYORK-CSV | VALE OF YORK FORMATION - CLAY, SANDY, GRAVELLY (Secondary Undifferentiated aquifer) |
| VYORK-SV | VALE OF YORK FORMATION - SAND, GRAVELLY |
| WASG-XSV | WANLIP MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| YORKM-SV | YORK MORaine MEMBER - SAND, GRAVELLY |
| BISG-XSV | BIRSTALL MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| BOSG-XSV | BORROWWASH SAND AND GRAVEL - SAND AND GRAVEL (Secondary A aquifer) |
| OKSG-XSV | OCKBROOK SAND AND GRAVEL - SAND AND GRAVEL (Secondary A aquifer) |
| BOSW-XCZ | BOSWORTH CLAY MEMBER - CLAY AND SILT (Secondary Undifferentiated aquifer) |
| HRT-CSV | HARROGATE TILL FORMATION - CLAY, SANDY, GRAVELLY (Secondary Undifferentiated aquifer) |
| ODT-DMTN | OADBY MEMBER - DIAMICTON (Secondary Undifferentiated aquifer) |
| THT-DMTN | THRUSSINGTON MEMBER - DIAMICTON (Secondary Undifferentiated aquifer) |
| GFDMP-XSV | GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL (Secondary A aquifer) |
| GLLMP-XCZS | GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - CLAY, SILT AND SAND (Unproductive) |
| GLLMP-XSV | GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE - SAND AND GRAVEL (Secondary A aquifer) |
| TILMP-DMTN | TILL, MID PLEISTOCENE - DIAMICTON (Secondary Undifferentiated aquifer) |
| BSSG-XSV | BEESTON SAND AND GRAVEL MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| EGSG-XSV | EGGINTON COMMON SAND AND GRAVEL MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| EMSG-XSV | EAGLE MOOR SAND AND GRAVEL MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| ETSG-XSV | ETWALL SAND AND GRAVEL MEMBER - SAND AND GRAVEL (Secondary Undifferentiated aquifer) |
| GDU-XCZS | GLACIAL DEPOSITS - CLAY, SILT AND SAND (Secondary Undifferentiated aquifer) |
| GLDD-XCZS | GLACIOLACUSTRINE DELTAIC DEPOSITS - CLAY, SILT AND SAND (Secondary B aquifer) |
| GLLD-XCZ | GLACIOLACUSTRINE DEPOSITS - CLAY AND SILT (Unproductive) |
| GLLD-XSV | GLACIOLACUSTRINE DEPOSITS - SAND AND GRAVEL (Secondary A aquifer) |
| HETD-XSV | HEMINGTON MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| HETD-XZV | HEMINGTON MEMBER - SILT AND GRAVEL (Secondary A aquifer) |
| HPSG-XSV | HOLME PIERREPONT SAND AND GRAVEL MEMBER - SAND AND GRAVEL (Secondary A aquifer) |
| ALF-XCZS | ALLUVIAL FAN DEPOSITS - CLAY, SILT AND SAND (Secondary A aquifer) |
| ALF-XCZSV | ALLUVIAL FAN DEPOSITS - CLAY, SILT, SAND AND GRAVEL |
| ALF-XSV | ALLUVIAL FAN DEPOSITS - SAND AND GRAVEL (Secondary A aquifer) |
| ALF-XSZ | ALLUVIAL FAN DEPOSITS - SAND AND SILT (Secondary A aquifer) |
| ALTD-XSV | ALLENTON TERRACE DEPOSITS - SAND AND GRAVEL (Secondary A aquifer) |
| ANSG-XSV | ANKER SAND AND GRAVEL - SAND AND GRAVEL (Secondary A aquifer) |
| GFDU-XSV | GLACIOFLUVIAL DEPOSITS - SAND AND GRAVEL (Secondary A aquifer) |
| HEAD-B | HEAD - BOULDERS (Secondary Undifferentiated aquifer) |
| HEAD-DMTN | HEAD - DIAMICTON (Secondary B aquifer) |
| HEAD-XCSV | HEAD - CLAY, SAND AND GRAVEL (Secondary A aquifer) |
| HEAD-XCZSV | HEAD - CLAY, SILT, SAND AND GRAVEL (Secondary Undifferentiated aquifer) |
| LDE-XCZ | LACUSTRINE DEPOSITS - CLAY AND SILT (Secondary Undifferentiated aquifer) |
| LDE-XCZS | LACUSTRINE DEPOSITS - CLAY, SILT AND SAND (Secondary Undifferentiated aquifer) |
| LDE-XSV | LACUSTRINE DEPOSITS - SAND AND GRAVEL (Secondary A aquifer) |
| LNSG-XSV | LEEN SAND AND GRAVEL - SAND AND GRAVEL (Secondary A aquifer) |
| PEAT-P | PEAT - PEAT (Unproductive) |
| RTD1-XSV | RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL (Secondary A aquifer) |
| RTD2-XSV | RIVER TERRACE DEPOSITS, 2 - SAND AND GRAVEL (Secondary A aquifer) |
| RTD3-XSV | RIVER TERRACE DEPOSITS, 3 - SAND AND GRAVEL (Secondary A aquifer) |
| RTDU-XSV | RIVER TERRACE DEPOSITS (UNDIFFERENTIATED) - SAND AND GRAVEL (Secondary A aquifer) |
| TUFA-CATUFA | TUFA - TUFA, CALCAREOUS (Secondary A aquifer) |

Map Number **WR-02 - Legend**

Map Name
**WR-02 - Full Geological
Legend with Rock Unit
Names and Aquifer Status**



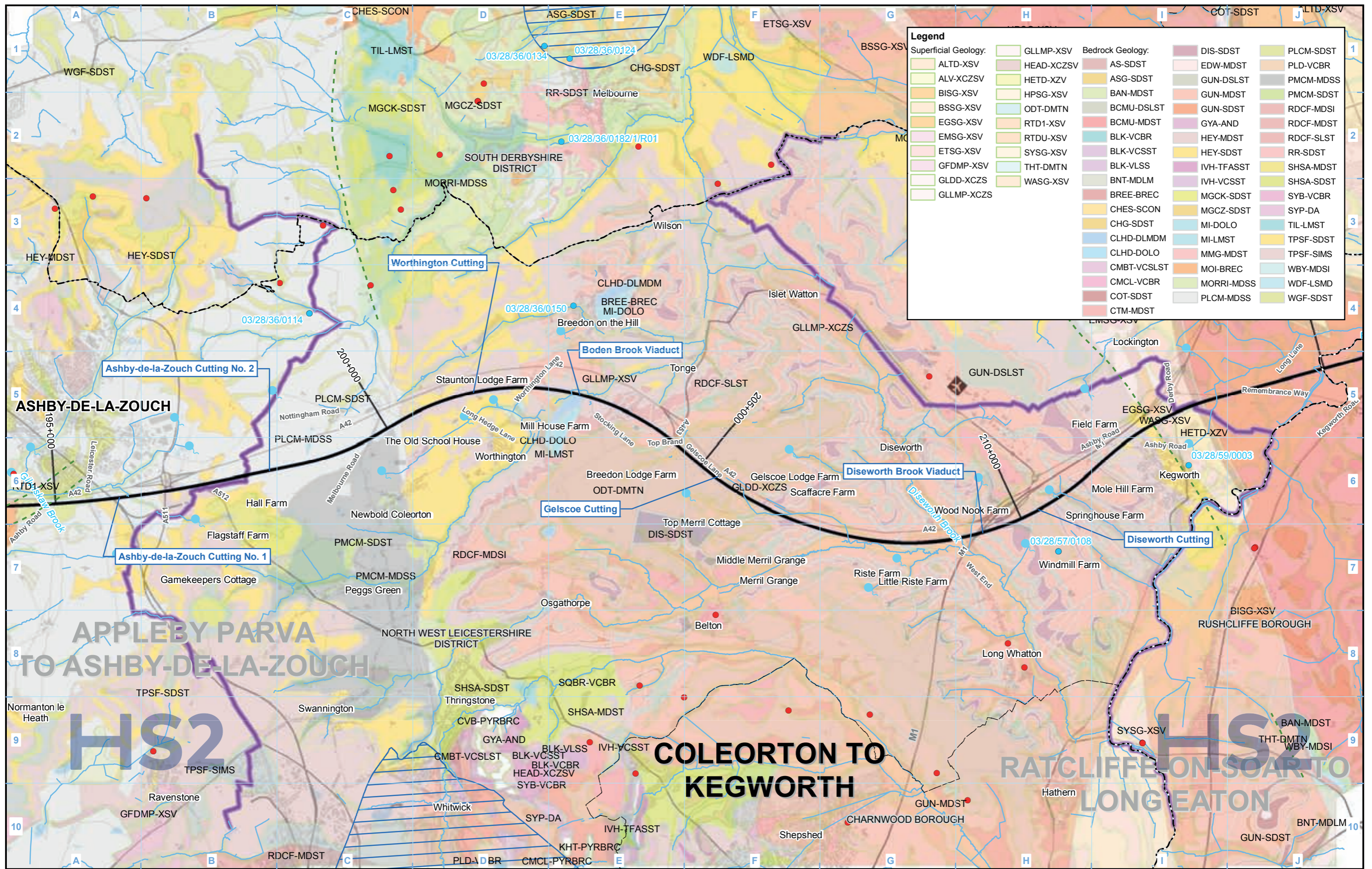
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Doc Number: 2EV01-ARP-GI-MAP-000-000252-P03

Date: 13/07/18



| Legend | | | |
|-----------------------------|------------|-------------------------|-----------|
| Superficial Geology: | GLLMP-XSV | Bedrock Geology: | DIS-SDST |
| ALTD-XSV | HEAD-XCZSV | AS-SDST | PLCM-SDST |
| ALV-XCZSV | HETD-XZV | ASG-SDST | PLD-VCBR |
| BISG-XSV | HPSG-XSV | BAN-MDST | PMCM-MDSS |
| BSSG-XSV | ODT-DMTN | BCMU-DSLST | PMCM-SDST |
| EGSG-XSV | RTD1-XSV | BCMU-MDST | RDCF-MDSI |
| EMSG-XSV | RTDU-XSV | BLK-VCBR | RDCF-MDST |
| ETSG-XSV | SYSG-XSV | BLK-VCSST | RR-SDST |
| GFDMP-XSV | THT-DMTN | BLK-VLSS | SHSA-MDST |
| GLDD-XCZS | WASG-XSV | BNT-MDLM | SHSA-SDST |
| GLLMP-XCZS | | BREE-BREC | SYB-VCBR |
| | | CHES-SCON | SYP-DA |
| | | CHG-SDST | TIL-LMST |
| | | CLHD-DLMDM | TPSF-SDST |
| | | CLHD-DOLO | TPSF-SIMS |
| | | CMBT-VCSSLST | WBY-MDSI |
| | | CMCL-VCBR | WDF-LSMD |
| | | COT-SDST | WGF-SDST |
| | | CTM-MDST | |

| Legend | | |
|--------|--|--|
| | | Groundwater source protection zone: |
| | | |
| | | |
| | | |
| | | |
| | | |

For full geological legend including strata names and aquifer status please refer to WR-02 - Legend

| | |
|----------------------|---------------------------|
| Map Number | WR-02-312 |
| Map Name | Groundwater Baseline WDES |
| Community Area LA04: | Coleorton to Kegworth |

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