

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

Volume 4 | Map book

Off-route effects

November 2013

ES 3.4.2



Department
for Transport

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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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 is reflective of 2013 Ordnance Survey (OS) data.
CT-18 – Environmental Baseline	The Environmental Baseline maps display a range of environmental data layers.
CT-19 – Environmental Baseline	The Environmental Baseline maps display a range of environmental data layers.

Mapping explanatory notes

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 London-West Midlands Environmental Statement (ES) contain Ordnance Survey (OS) data. HS2 Ltd uses the most up-to-date mapping available, where possible, supplied by the OS. 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 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, for example: 77+000.

Chainage (known as reference chainage) is referenced from Euston station, which is 0+000, and the value presented is in metres. For example, 77+000 refers to the point 77,000m, or 77km, 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 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing 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 right hand side of the page, and the West Midlands to the left.

The exceptions to this are map series LV-02, LV-03, LV-04, LV-07 and LV-08, which present the alignment running from the bottom to the 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 the West Midlands to the top.

Map books

There are a total of 76 map books in the ES, spread across Volumes 2, 4 and 5. A list of the titles is provided in the table below for reference.

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Volume 2 Map Books Community Forum Area: 23 Balsall Common and Hampton-in-Arden	Volume 5 Map Books: Land Quality
Volume 2 Map Books Community Forum Area: 24 Birmingham Interchange and Chelmsley Wood	Volume 5 Map Books: Landscape and Visual – Euston and London Metropolitan
Volume 2 Map Books Community Forum Area: 25 Castle Bromwich and Bromford	Volume 5 Map Books: Landscape and Visual – Country South
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Volume 5 Map Books: Agriculture, Forestry and Soils	Volume 5 Map Books: Socio-Economic
Volume 5 Map Books: Air Quality	Volume 5 Map Books: Sound, Noise and Vibration – Euston and London Metropolitan
Volume 5 Map Books: Community	Volume 5 Map Books: Sound, Noise and Vibration – Country South
Volume 5 Map Books: Cultural Heritage – Euston and London Metropolitan	Volume 5 Map Books: Sound, Noise and Vibration – Country North
Volume 5 Map Books: Cultural Heritage – Country South	Volume 5 Map Books: Sound, Noise and Vibration – West Midlands Metropolitan
Volume 5 Map Books: Cultural Heritage – Country North	Volume 5 Map Books: Traffic and Transport
Volume 5 Map Books: Cultural Heritage – West Midlands Metropolitan	Volume 5 Map Books: Water Resources – Euston and London Metropolitan
Volume 5 Map Books: Ecology – Community Forum Area: 01 Euston - Station and Approach	Volume 5 Map Books: Water Resources – Country South
Volume 5 Map Books: Ecology – Community Forum Area: 02 Camden Town and HS1 Link	Volume 5 Map Books: Water Resources – Country North
Volume 5 Map Books: Ecology – Community Forum Area: 03 Primrose Hill to Kilburn (Camden)	Volume 5 Map Books: Water Resources – West Midlands Metropolitan
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
Ancient Woodland	Ancient Woodland Inventory. Ancient Woodland is land that has had continuous woodland cover since at least AD1600.	Natural England	© Natural England copyright 2013. Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Balancing pond	The proposed location and extent of balancing ponds for drainage attenuation and infiltration. Outer boundary represents the perimeter.	High Speed Two (HS2) Ltd	
Chainage	Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, 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 Forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Conservation area	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.	Local Authorities	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Construction compounds	See main construction compounds.	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 2013 Ordnance Survey Licence Number 100049190.
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	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
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 stand-alone pond or part of a wider wetland habitat creation plan.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
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	
Existing public right of way (PRoW)	See Public Rights of Way.	See Public Rights of Way.	See Public Rights of Way.
Existing watercourse	See Watercourse.	See Watercourse.	See Watercourse.
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	
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	
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	
Land drainage area	Provision of land to attenuate or infiltrate overland flows at or beyond the HS2 railway boundaries; for example, where existing land drainage systems are altered by the HS2 works, where the existing landform is reshaped by landscape earthworks or where surface water from third-party land is intercepted by the HS2 perimeter drainage system.	High Speed Two (HS2) Ltd	
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 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	
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.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Listed building Grade II*	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	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.

Legend features	Definition	Source	Copyright
	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.		
Listed building Grade II	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.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
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 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Local Wildlife Site (LWS) - county/metropolitan value	<p>Local Wildlife Sites (LWS) are identified and selected for their local nature conservation value. They protect threatened species and habitats acting as buffers, stepping stones and corridors between nationally-designated wildlife sites.</p> <p>Local Wildlife Sites (LWS) are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.</p> <p>In some cases Local Wildlife data is not shown as this is still being verified.</p>	<p>Supplied by Ecorecord, Warwickshire County Council, Birmingham Council</p> <p>Greenspace Information for Greater London (GiGL)</p> <p>Northamptonshire County Council</p> <p>Buckinghamshire County Council</p>	<p>Data supplied by Ecorecord, Warwickshire BRC & Birmingham use (© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.)</p> <p>Map derived from GiGL data 2013 (where a map shows information derived from GiGL data). This data incorporates biodiversity data supplied to HS2 by Northamptonshire Biodiversity Records Centre and The Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire (Wildlife Trust BCN), and is copyright to Wildlife Trust BCN and/or its partners.</p> <p>This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil</p>

Legend features	Definition	Source	Copyright
		<p>Thames Valley Ecological Records Centre c/o Oxfordshire County Council (TVERC)</p> <p>Hertfordshire Biological Record Centre</p> <p>Staffordshire Ecological Record (SER)</p>	<p>proceedings. Buckinghamshire County Council Licence No. 100021529,2012.</p> <p>Incorporates biodiversity data supplied by Thames Valley Environmental Records Centre (TVERC). This data are copyright to TVERC and/or its partners.</p> <p>Incorporates biodiversity data supplied to High Speed Two (HS2) by Hertfordshire Biological Records Centre and is copyright to Hertfordshire County Council, Hertfordshire Biological Records Centre and/or its partners.</p> <p>Copyright © Staffordshire Ecological Record Partnership, 2013. The information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER. All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions. The presence of a marked boundary within SER information does not imply any rights of public access.</p>
<p>Local Wildlife Site (LWS) - less than county/metropolitan value</p>	<p>Local Wildlife Sites (LWS) are identified and selected for their local nature conservation value. They protect threatened species and habitats acting as buffers, stepping stones and corridors between nationally-designated wildlife sites.</p> <p>Local Wildlife Sites (LWS) are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.</p> <p>In some cases Local Wildlife data is not shown as this is still being verified.</p>	<p>Supplied by Ecorecord, Warwickshire County Council, Birmingham Council. Greenspace Information for Greater London (GiGL)</p> <p>Northamptonshire County Council</p> <p>Buckinghamshire County Council</p>	<p>Data supplied by Ecorecord, Warwickshire BRC & Birmingham use (© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.)</p> <p>Map derived from GiGL data 2013 (where a map shows information derived from GiGL data).</p> <p>This data incorporates biodiversity data supplied to HS2 by Northamptonshire Biodiversity Records Centre and The Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire (Wildlife Trust BCN), and is copyright to Wildlife Trust BCN and/or its partners.</p> <p>This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown</p>

Legend features	Definition	Source	Copyright
		<p>Thames Valley Ecological Records Centre c/o Oxfordshire County Council (TVERC)</p> <p>Hertfordshire Biological Record Centre</p> <p>Staffordshire Ecological Record (SER)</p>	<p>Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529,2012.</p> <p>Incorporates biodiversity data supplied by Thames Valley Environmental Records Centre (TVERC). This data are copyright to TVERC and/or its partners.</p> <p>Incorporates biodiversity data supplied to High Speed Two (HS2) by Hertfordshire Biological Records Centre and is copyright to Hertfordshire County Council, Hertfordshire Biological Records Centre and/or its partners.</p> <p>Copyright © Staffordshire Ecological Record Partnership, 2013. The information is reproduced from, or based upon, information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER. All data supplied by SER is to the best of SER's knowledge correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions. The presence of a marked boundary within SER information does not imply any rights of public access.</p>
Main construction compound	Construction compound in which main contractors offices and welfare facilities will be located.	High Speed Two (HS2) Ltd	
Main utility works	Represents all new major utility installations (included in the hybrid Bill) and also modifications to existing utilities required to construct the scheme. Includes water, electricity, telecommunications and gas.	High Speed Two (HS2) Ltd	
National Nature Reserve (NNR)	A National Nature Reserve (NNR) is the land declared under the National Parks and Access to the Countryside Act 1949 or Wildlife and Countryside Act (1981) as amended.	Natural England	<p>© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021.</p> <p>http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf</p>
New, diverted or realigned PRoW	New, realigned or diverted Public Right 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	High Speed Two (HS2) Ltd	

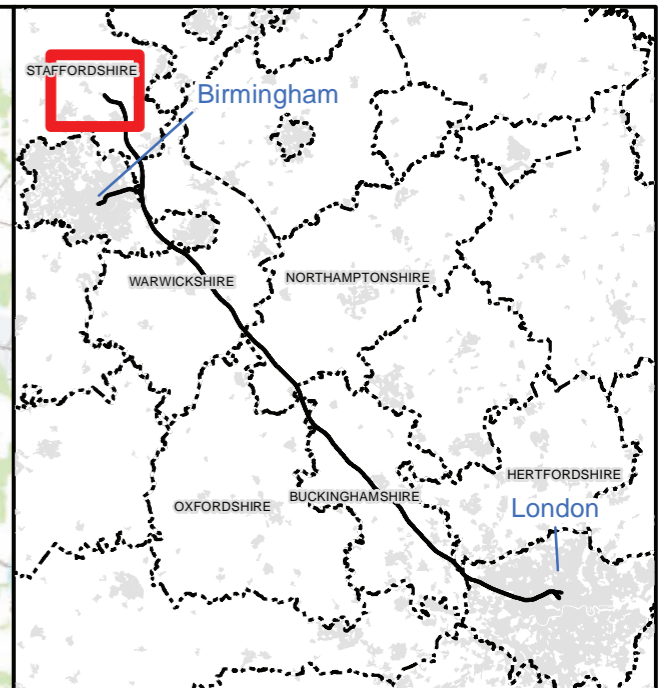
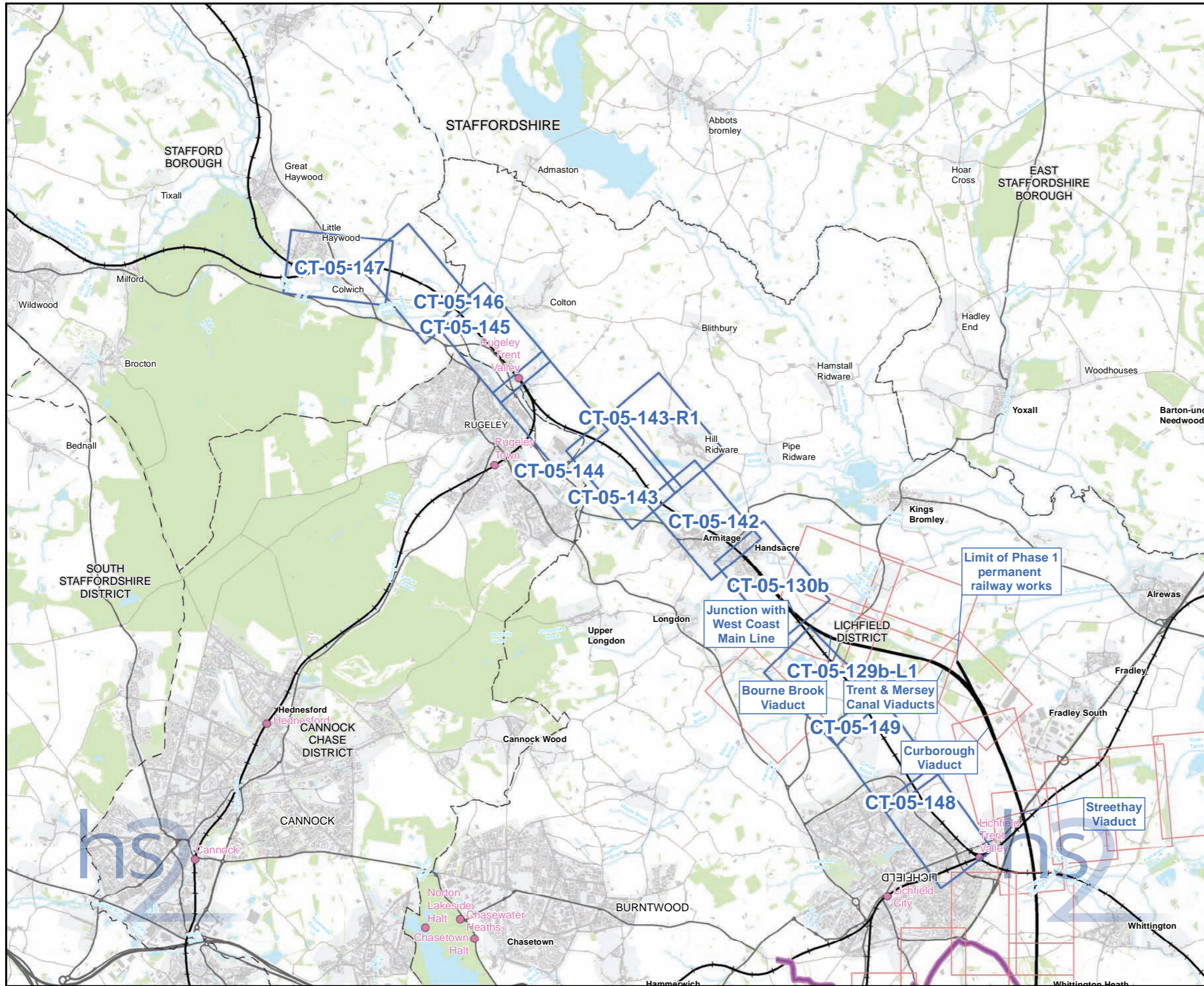
Legend features	Definition	Source	Copyright
	cuttings - see the SV map series for more detail on noise mitigation.		
Public realm	Specifically provided to show areas to be used for public realm. This layer is mainly associated with station sites and is to be used to indicate general areas for designed soft and hard landscaping.	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	
Registered Park or Garden	Parks and Gardens of special historic interest. Supplied by English Heritage. 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).	High Speed Two (HS2) Ltd	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Replacement floodplain storage	Provision of storage to replace floodplain occupied by the Proposed Scheme. Equivalent storage is provided for events up to the 1 in 100 (1%) annual probability event with an allowance for climate change.	High Speed Two (HS2) Ltd	
Returned to suitable development use	Post construction, land will be reinstated to enable potential future development.	High Speed Two (HS2) Ltd	
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	Represents construction compounds which serve local works for major construction elements within a main contract.	High Speed Two (HS2) Ltd	
Scheduled monument	A schedule has been kept since 1882 of monuments considered to be of national importance by the government. The current legislation, the Ancient Monuments and Archaeological Areas Act 1979, supports a formal system of Scheduled Monument Consent for any work to a designated monument. 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.	English Heritage	Contains, or is based upon, English Heritage's National Heritage List for England data © English Heritage.
Site of Special Scientific Interest (SSSI)	A Site of Special Scientific Interest (SSSI) is land notified as an SSSI under the Wildlife and Countryside Act (1981), as amended.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Stopped-up PRoW	Public right of way that will be closed due to construction of the scheme.	High Speed Two (HS2) Ltd	
Sustainable placement	Sustainable placement: the on-site placement for disposal of surplus excavated material to avoid causing environmental effects (e.g. transport) that would otherwise be associated with the off-site disposal of that material. "On-site" in this context	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
	means within the land required for the purposes of the Proposed Scheme, and "off-site" means external land (or landfill site) which is not specifically required for the purposes of the Proposed Scheme.		
Temporary highway diversion / realignment	Indicative temporary highway diversion layout 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 diversion / realignment	Indicative temporary diversion to public rights of way as a result of construction of the scheme. This will vary depending on construction phase and local conditions.	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	
Water body	Based on Ordnance Survey Vector Map District.	Ordnance Survey	© Crown Copyright and database rights [2013]. Ordnance Survey Licence number 100049190.
Watercourse	The Detailed River Network (DRN) is the only large-scale, accurate and fully attributed digital river centreline covering England and Wales.	Environment Agency	Contains Environment Agency information © Environment Agency and database right.
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 [2013] Ordnance Survey Licence number 100049190.
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	

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CT-05 – Construction Phase

CT-06 – Proposed Scheme



Map Series Information:

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 2013 Ordnance Survey (OS) data.

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

Map Number	CT-05-INDEX-WCML
Map Name	Index Map of: Construction Phase
Community Forum Area WCML: Lichfield to Colwich	

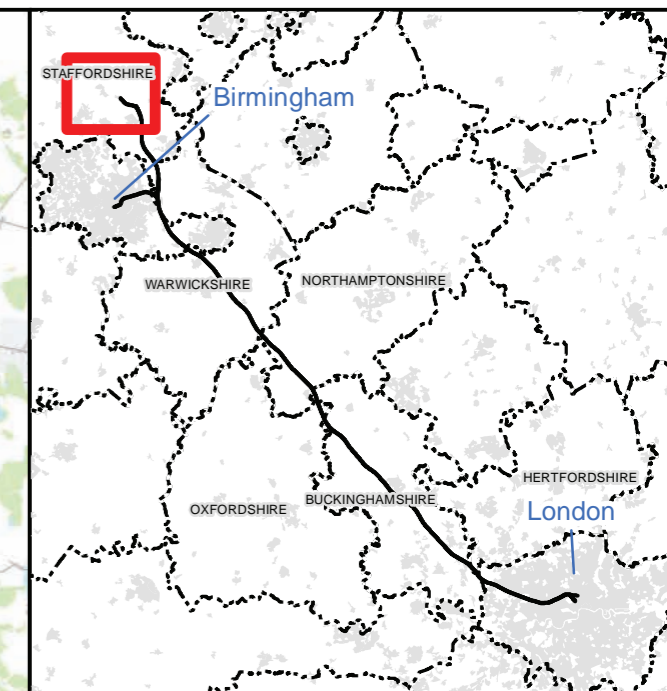
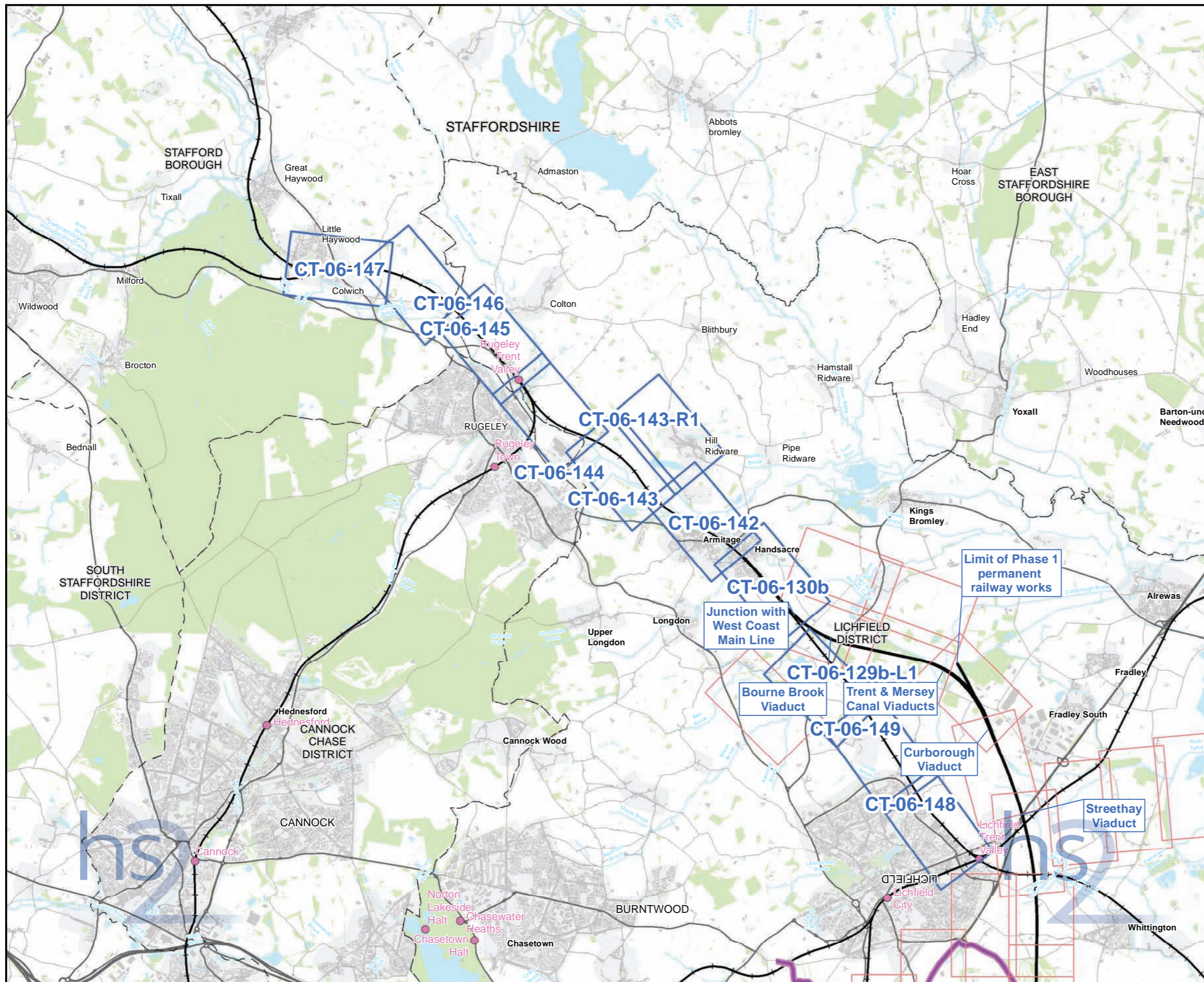
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Scale at A3: 1:75,000

Doc Number: C250-ARP-EV-MAP-000-004213--P05.00 **Date:** 31/10/13



Map Series Information:

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

The base mapping is reflective of 2013 Ordnance Survey (OS) data.

Main Map Legend

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

Map Number **CT-06-INDEX-WCML**

Map Name **Index Map of:
Proposed Scheme**

**Community Forum Area WCML:
Lichfield to Colwich**

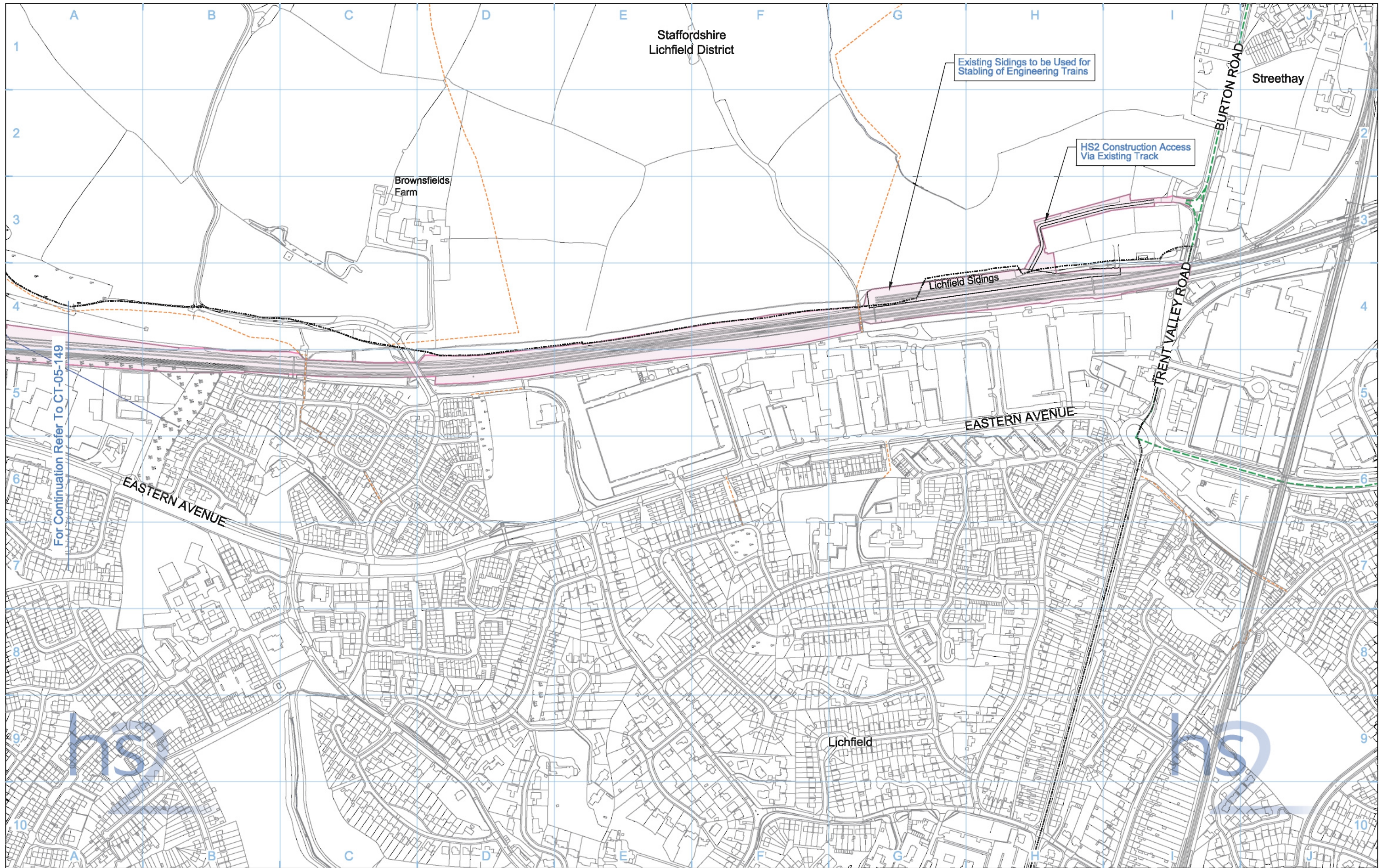
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Doc Number: C250-ARP-EV-MAP-000-004240--P06.00 **Date: 31/10/13**



Legend

- | | | | |
|--|---|-------------------------------------|---|
| Depot, station, headhouse or portal building | Rail alignment formation | Community forum boundary | Stopped-up PRoW |
| Tunnel portal | Landscape earthworks | Existing watercourse | Temporary PRoW diversion / realignment |
| Main construction compound | Engineering earthworks | Tunnels external extent | Temporary highway diversion / realignment |
| Satellite construction compound | County boundary | Construction traffic route | Main utility works |
| Temporary material stockpile | Borough / District boundary | Existing public right of way (PRoW) | |
| | Land potentially required during construction | New, diverted or realigned PRoW | |

Map Number **CT-05-148**

Map Name **Construction Phase**

Community Forum Area Off-route
Modifications to WCML between Lichfield and Colwich

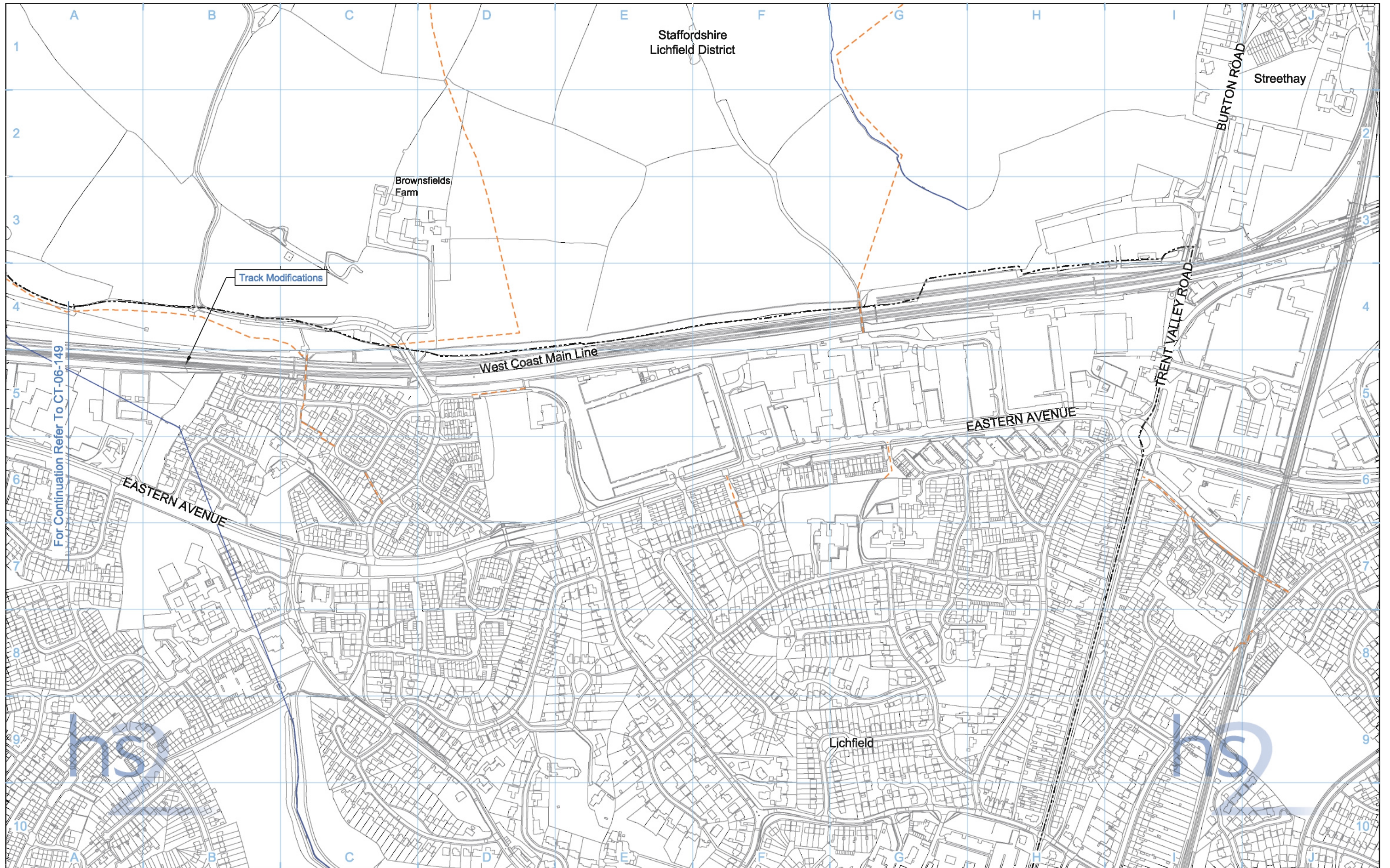
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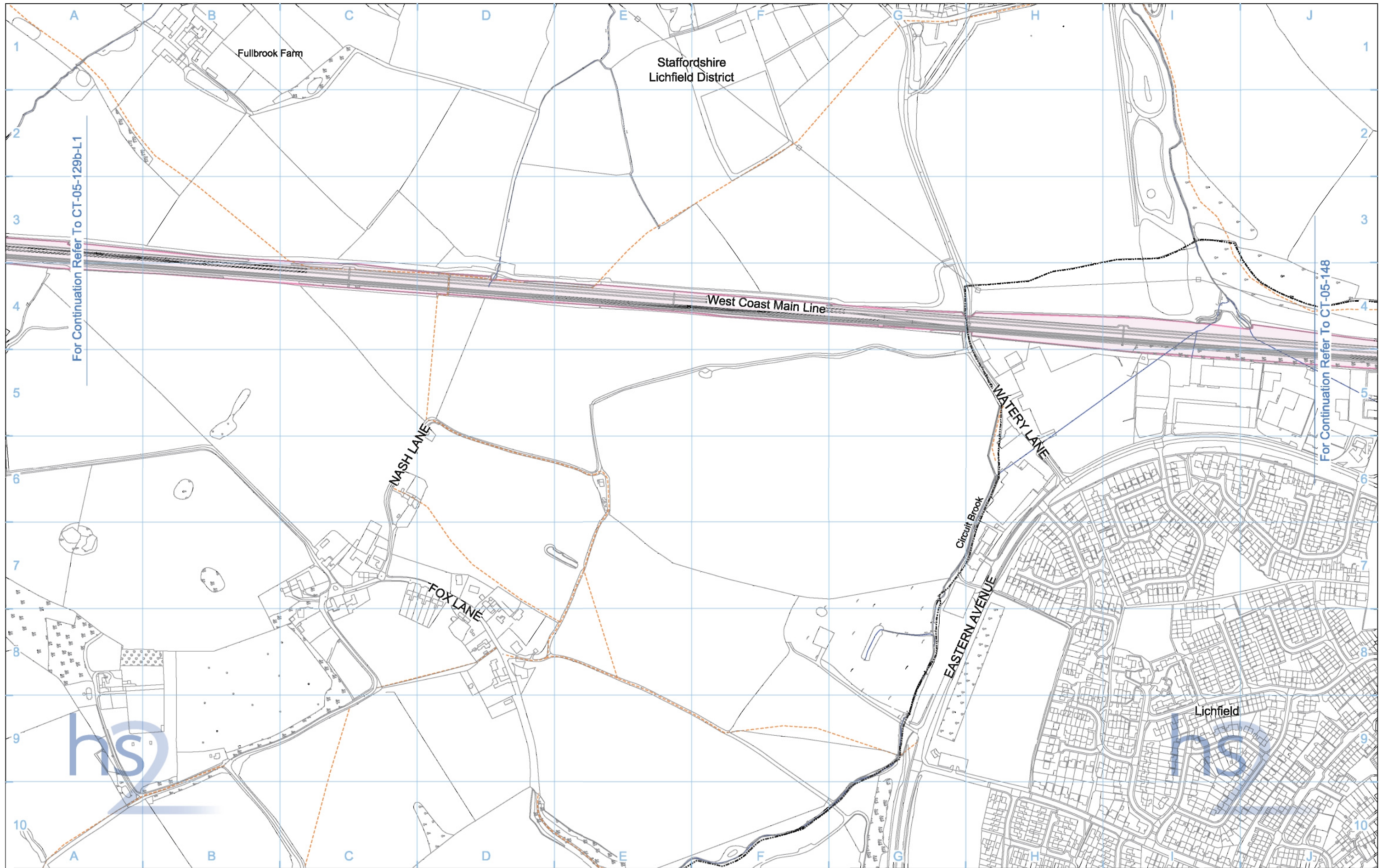
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Doc Number: C223-CSI-EV-DPL-030-525904 P02 Date: 29/10/13



Legend 		Map Number CT-06-148	 <small>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.</small> <small>Registered in England, Registration number 06791688 Registered office: Eland House, Bressenden Place, London SW1E 6DU</small> <small>Scale at A3: 1:5,000</small> <small>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</small>
Map Name Proposed Scheme		Community Forum Area Off-route Modifications to WCML between Lichfield and Colwich	
Doc Number: C223-CSI-EV-DPL-030-625904 P03 Date: 29/10/13			



Legend

- | | | | | |
|--|---|-------------------------------------|---|------------------------|
| Depot, station, headhouse or portal building | Rail alignment formation | Community forum boundary | Stopped-up PRoW | Chainage (e.g. 10+000) |
| Tunnel portal | Landscape earthworks | Existing watercourse | Temporary PRoW diversion / realignment | Rail alignment |
| Main construction compound | Engineering earthworks | Tunnels external extent | Temporary highway diversion / realignment | |
| Satellite construction compound | County boundary | Construction traffic route | Main utility works | |
| Temporary material stockpile | Borough / District boundary | Existing public right of way (PRoW) | | |
| | Land potentially required during construction | New, diverted or realigned PRoW | | |

Map Number: **CT-05-149**

Map Name: **Construction Phase**

Community Forum Area: Off-route
Modifications to WCML between Lichfield and Colwich

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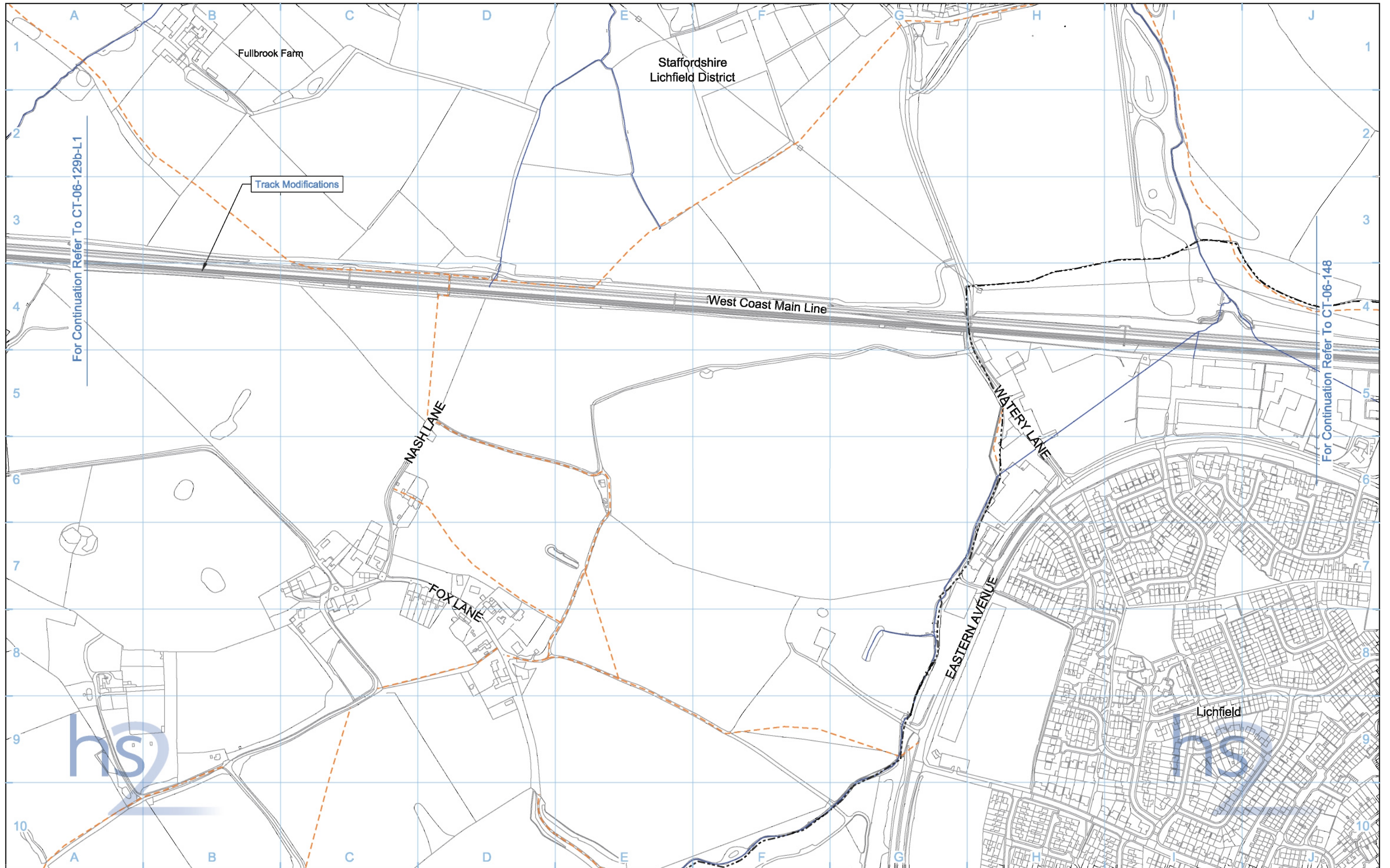
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Doc Number: C223-C5I-EV-DPL-030-525903 P02 Date: 29/10/13



Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland habitat creation
	Landscape mitigation planting (scrub / woodland)
	Grassed areas
	Sustainable placement
	Public realm
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Community forum boundary
	Watercourse diversion
	Existing watercourse
	Ditches - new
	Hedgerow habitat creation
	Main utility works
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Tunnels external extent
	Rail alignment
	HS2 Access road
	Noise fence barrier
	Chainage (e.g. 10+000)

Map Number	CT-06-149
Map Name	Proposed Scheme
Community Forum Area	Off-route
Modifications to WCML between Lichfield and Colwich	

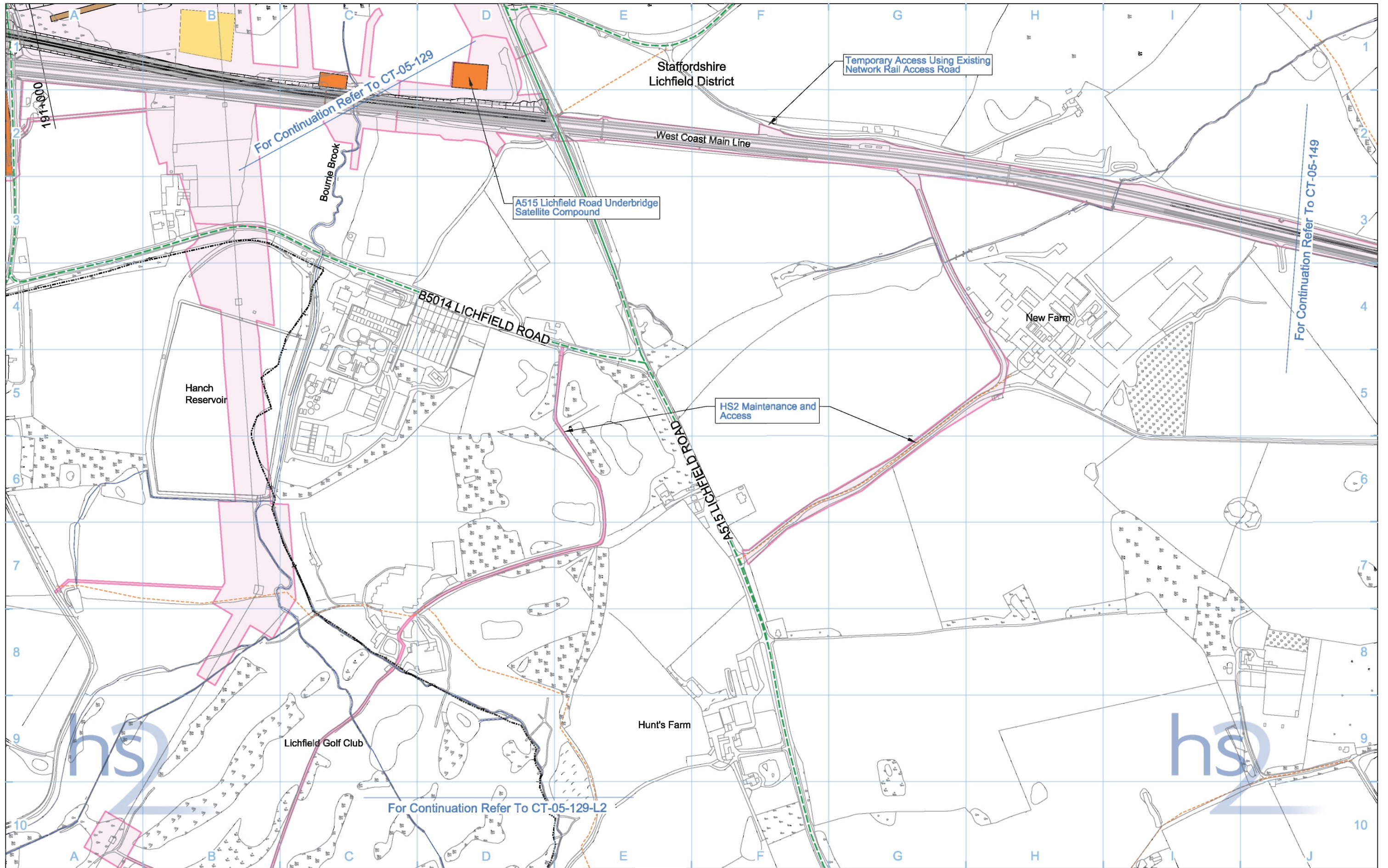
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Community forum boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT - Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number	CT-05-129b-L1
Map Name	Construction Phase
Community Forum Area	Off-route
Modifications to WCML between Lichfield and Colwich	

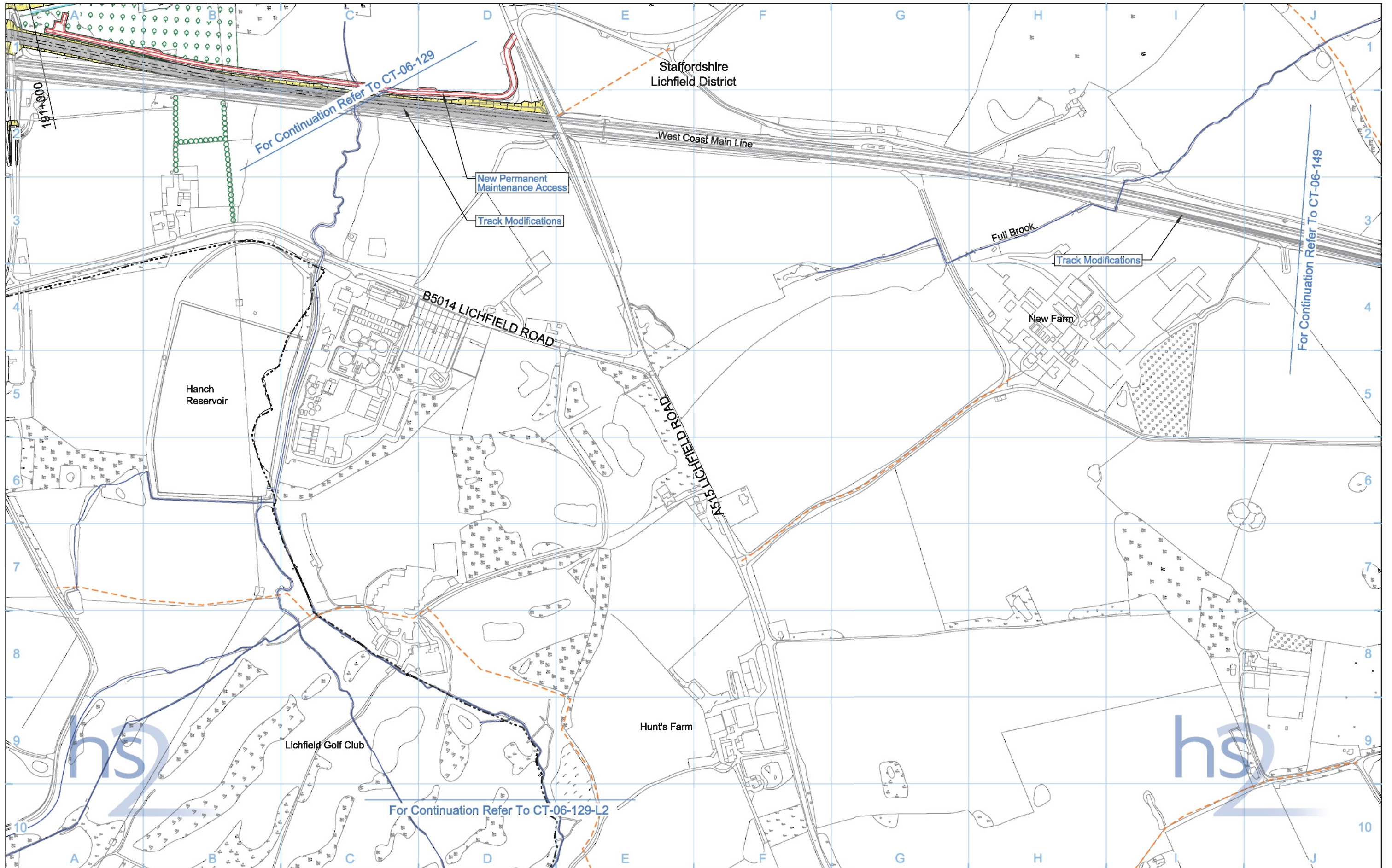
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland habitat creation
	Landscape mitigation planting (scrub / woodland)
	Grassed areas
	Sustainable placement
	Public realm
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Community forum boundary
	Watercourse diversion
	Existing watercourse
	Ditches - new
	Hedgerow habitat creation
	Main utility works
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Tunnels external extent
	Rail alignment
	HS2 Access road
	Noise fence barrier
	Chainage (e.g. 10+000)

Map Number: **CT-06-129b-L1**

Map Name: **Proposed Scheme**

Community Forum Area: **Off-route**

Modifications to WCML between Lichfield and Colwich

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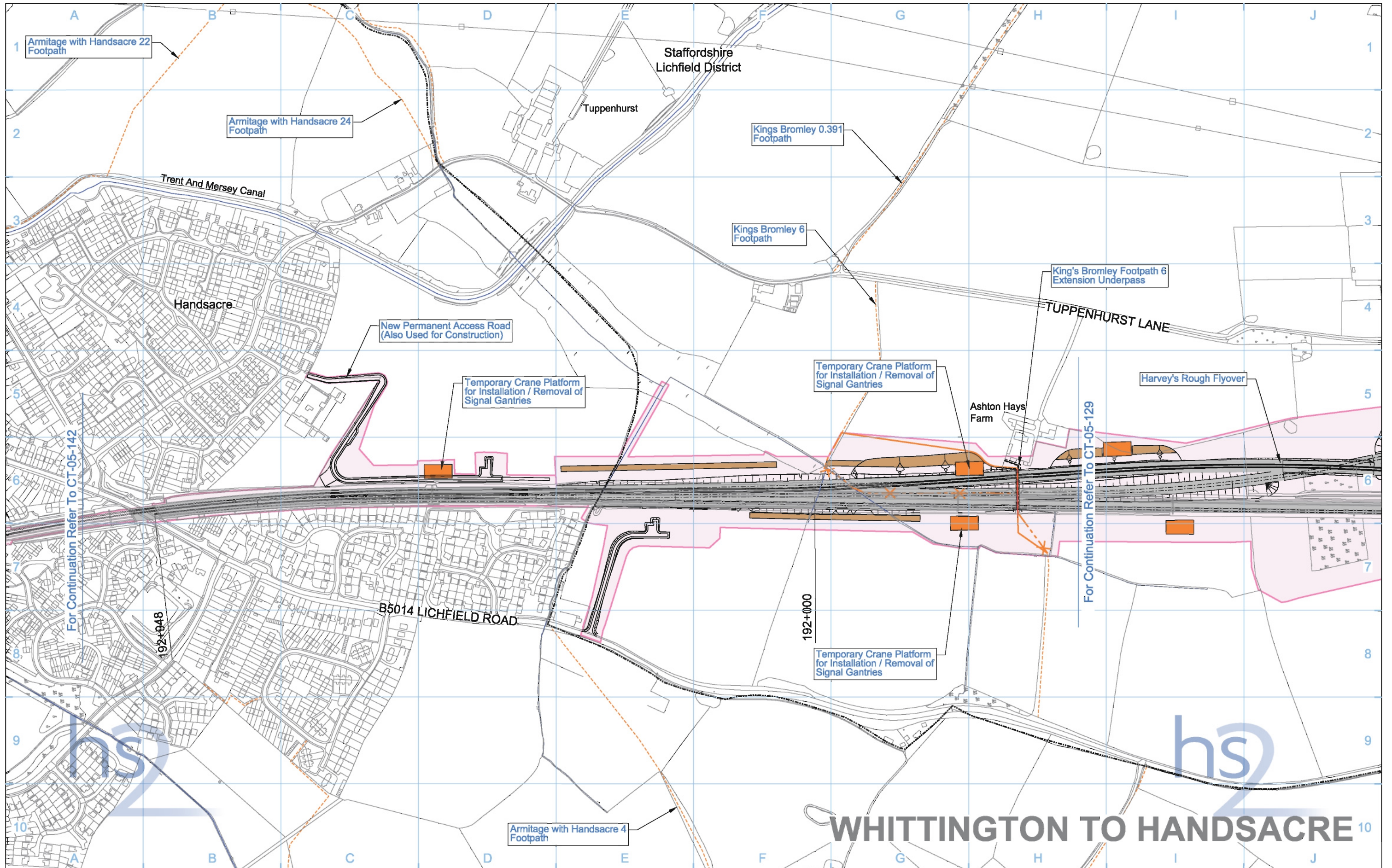
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WHITTINGTON TO HANDSACRE 10

Legend	
	Rail alignment formation
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Community forum boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT - Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number	CT-05-130b
Map Name	Construction Phase
Community Forum Area	Off-route Modifications to WCML between Lichfield and Colwich

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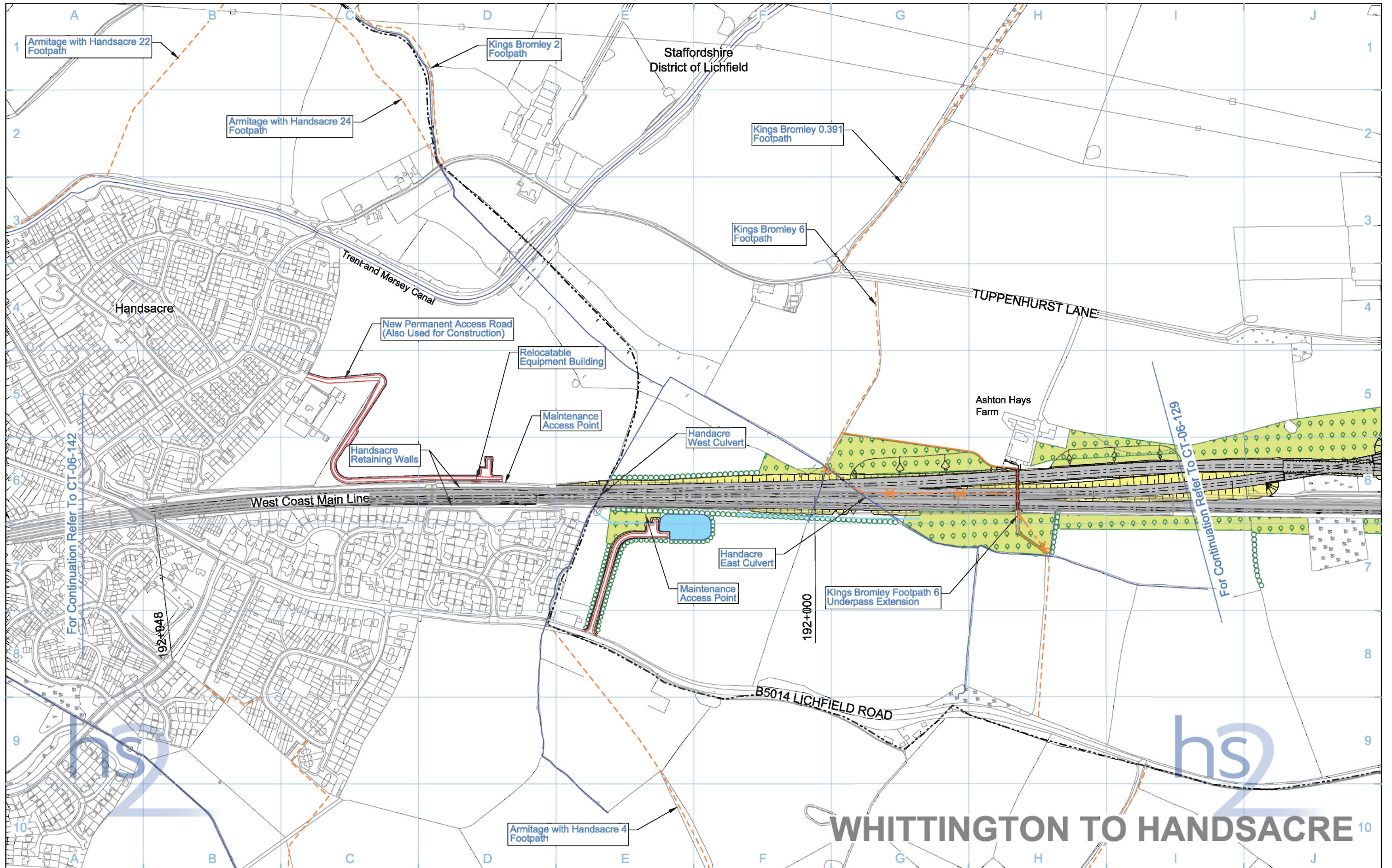
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Metres

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Doc Number: C223-CSE-EV-DPL-030-526110 P02 Date: 29/10/13



Legend			
	Depot, station, headhouse or portal building		Public realm
	Tunnel portal		Engineering earthworks
	Electricity substation		Landscape earthworks
	Land drainage area		Rail alignment formation
	Ecological mitigation pond		Returned to suitable development use
	Balancing pond		County boundary
			Borough / District boundary
	Replacement floodplain storage		Community forum boundary
	Woodland habitat creation		Watercourse diversion
	Wetland habitat creation		Existing watercourse
	Grassland habitat creation		Ditches - new
	Landscape mitigation planting (scrub / woodland)		Hedgerow habitat creation
	Grassed areas		Main utility works
	Sustainable placement		Existing public right of way (PRoW)
			New, diverted or realigned PRoW
			Stopped-up PRoW
			Tunnels external extent
			Rail alignment
			HS2 Access road
			Noise fence barrier
			Chainage (e.g. 10+000)

Map Number	CT-06-130b
Map Name	Proposed Scheme
Community Forum Area	Off-route
Modifications to WCML between Lichfield and Colwich	

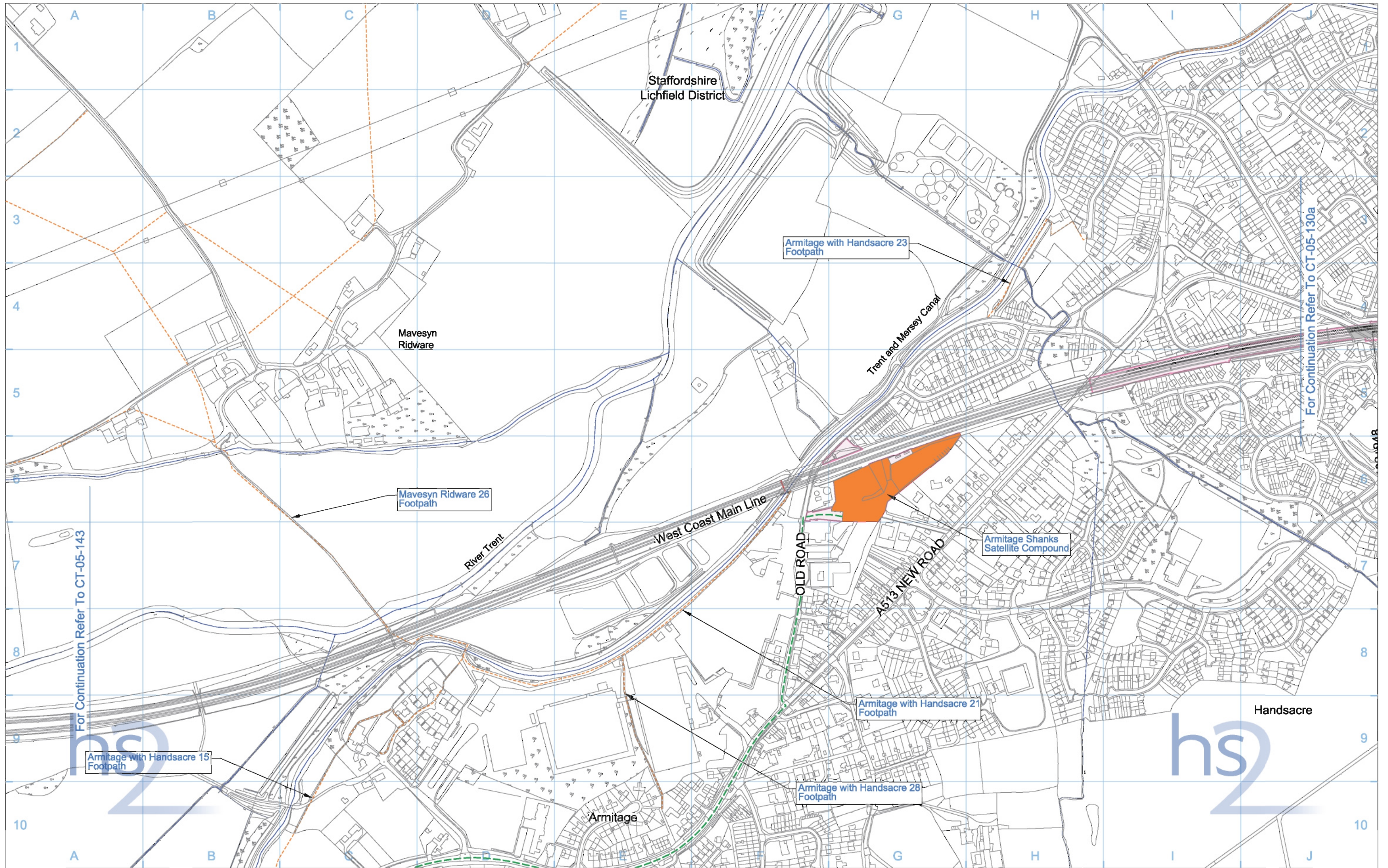
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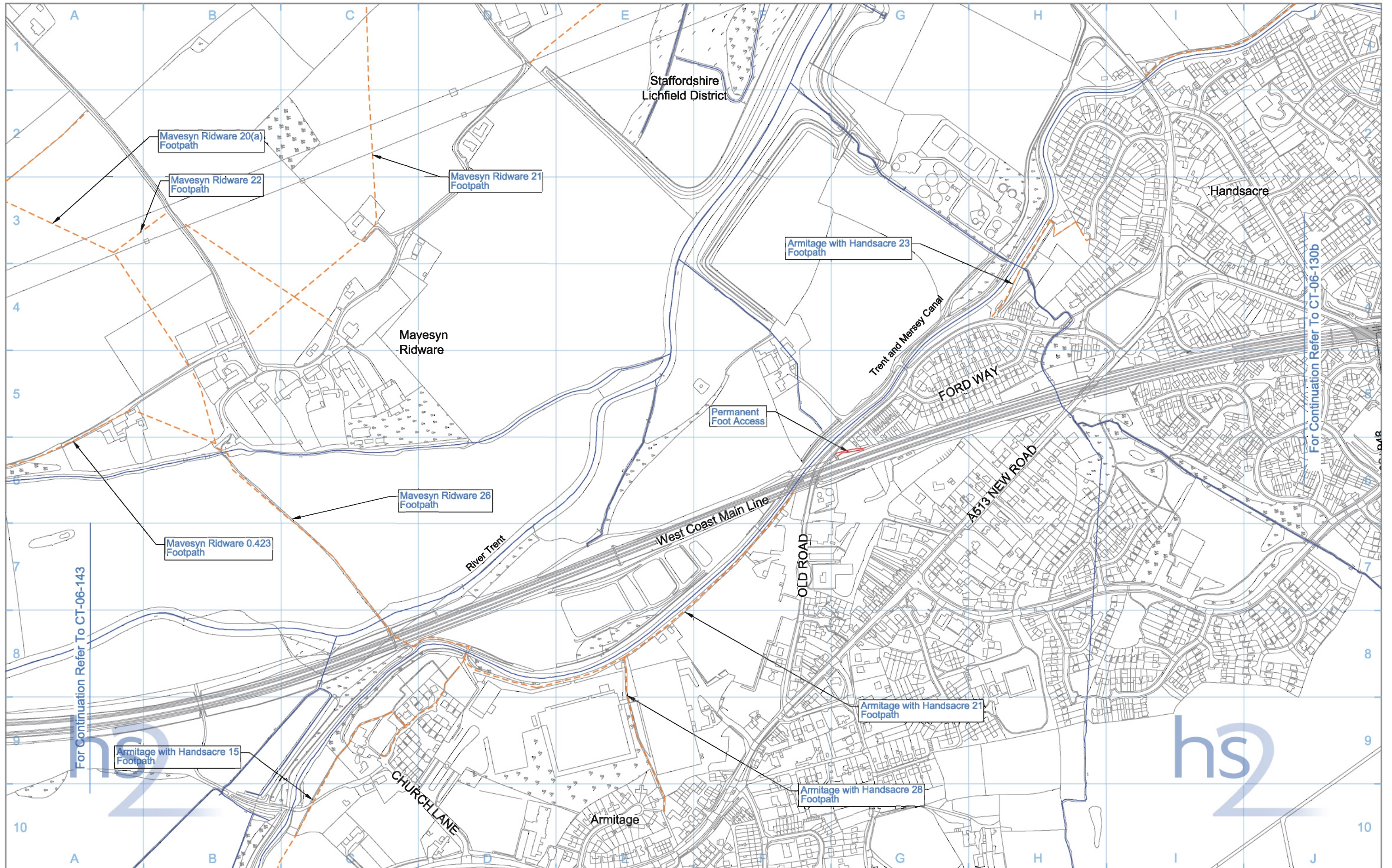
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For Continuation Refer To CT-05-143

For Continuation Refer To CT-05-130a

Legend 		Map Number CT-05-142 Map Name Construction Phase Community Forum Area Off-route Modifications to WCML between Lichfield and Colwich	 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 06791688 Registered office: Eland House, Bressenden Place, London SW1E 6DU Scale at A3: 1:5,000 © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C223-CSI-EV-DPL-030-528700 P02 Date: 29/10/13
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For Continuation Refer To CT-06-143

For Continuation Refer To CT-06-130b

Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland habitat creation
	Landscape mitigation planting (scrub / woodland)
	Grassed areas
	Sustainable placement
	Public realm
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Community forum boundary
	Watercourse diversion
	Existing watercourse
	Ditches - new
	Hedgerow habitat creation
	Main utility works
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Tunnels external extent
	Rail alignment
	HS2 Access road
	Noise fence barrier
	Chainage (e.g. 10+000)

Map Number	CT-06-142
Map Name	Proposed Scheme
Community Forum Area	Off-route
Modifications to WCML between Lichfield and Colwich	

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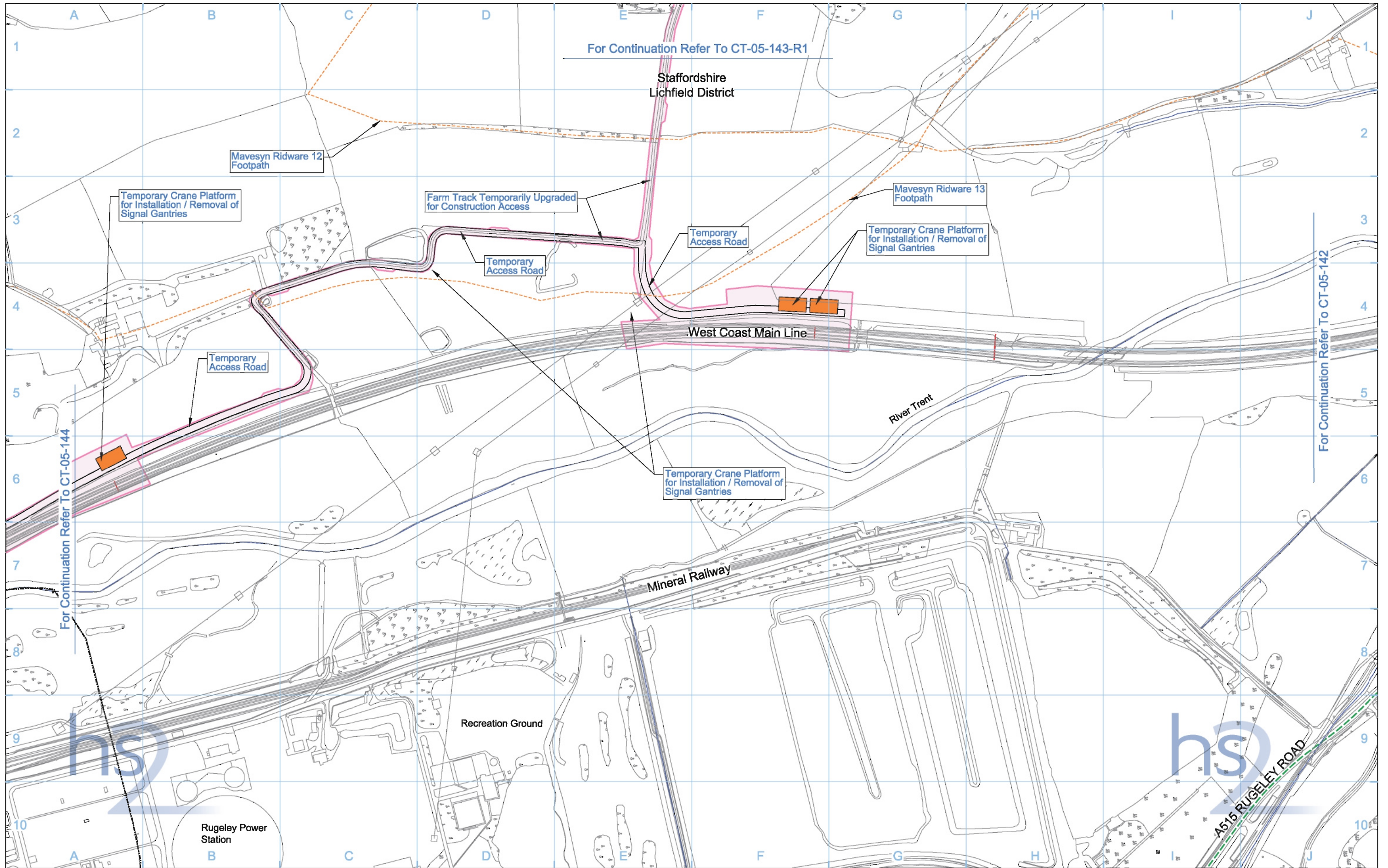
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Community forum boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT - Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number	CT-05-143
Map Name	Construction Phase
Community Forum Area	Off-route
Modifications to WCML between Lichfield and Colwich	

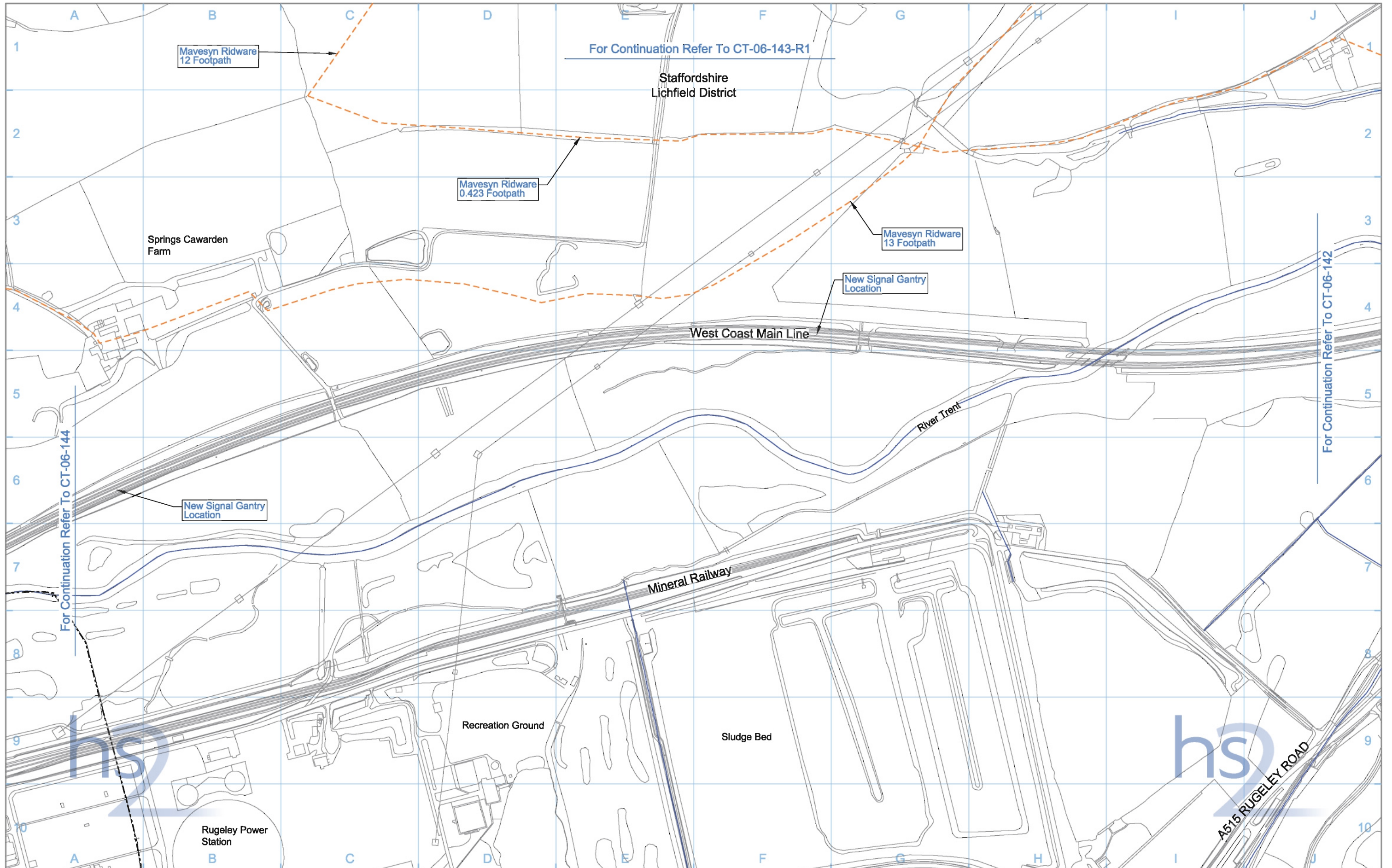
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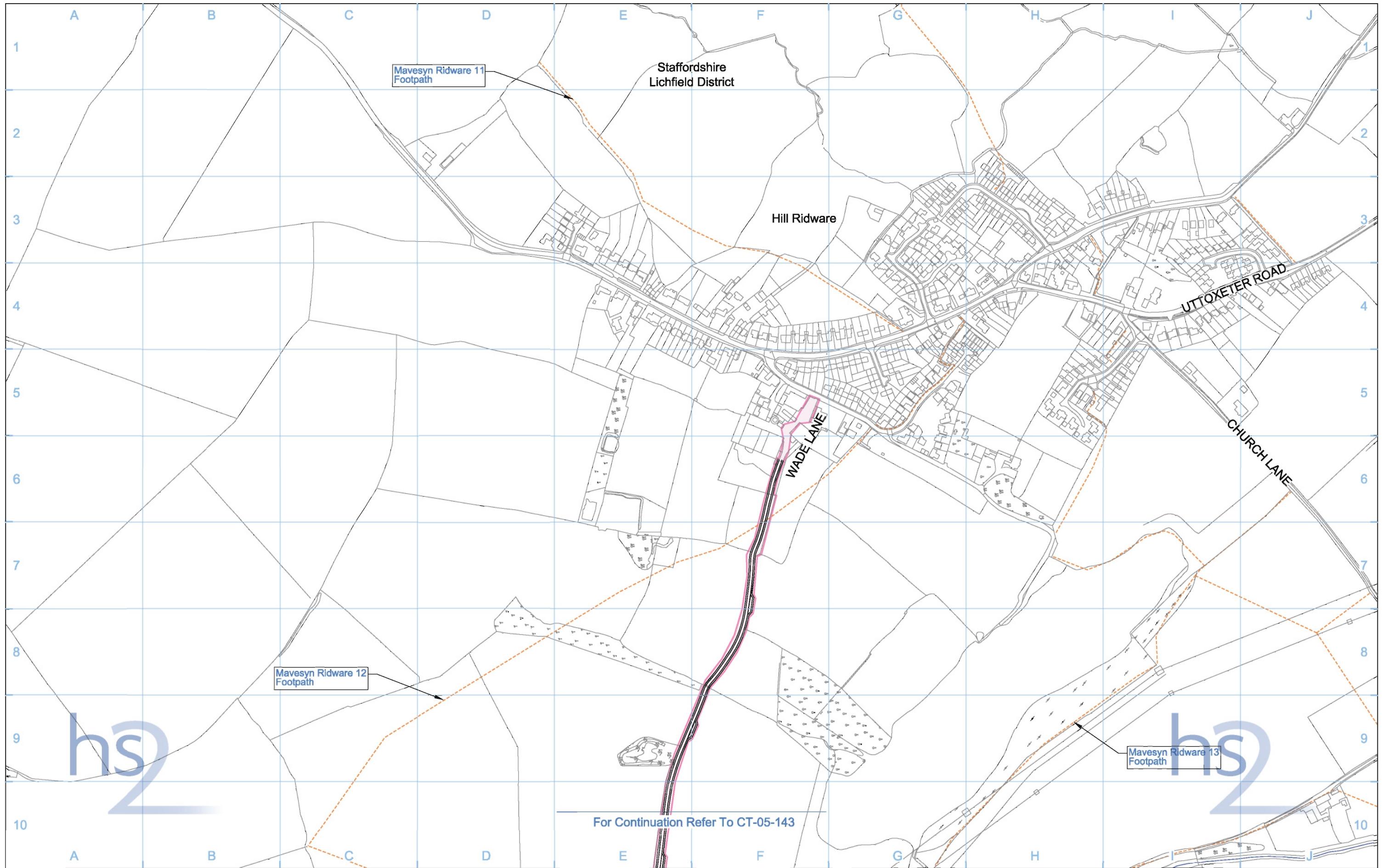
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Doc Number: C223-CSI-EV-DPL-030-528900 **P02** **Date:** 29/10/13



Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Electricity substation Land drainage area Ecological mitigation pond Balancing pond 		<ul style="list-style-type: none"> Replacement floodplain storage Woodland habitat creation Wetland habitat creation Grassland habitat creation Landscape mitigation planting (scrub / woodland) Grassed areas Sustainable placement 		<ul style="list-style-type: none"> Public realm Engineering earthworks Landscape earthworks Rail alignment formation Returned to suitable development use County boundary Borough / District boundary 		<ul style="list-style-type: none"> Community forum boundary Watercourse diversion Existing watercourse Ditches - new Hedgerow habitat creation Main utility works Existing public right of way (PRoW) New, diverted or realigned PRoW 		<ul style="list-style-type: none"> Stopped-up PRoW Tunnels external extent Rail alignment HS2 Access road Noise fence barrier Chainage (e.g. 10+000) 		Map Number CT-06-143 Map Name Proposed Scheme Community Forum Area: Off-route Modifications to WCML between Lichfield and Colwich	 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: Eland House, Bressenden Place, London SW1E 6DU Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C223-CSI-EV-DPL-030-628900 P03 Date: 29/10/13
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For Continuation Refer To CT-05-143

Legend

- | | | | |
|--|---|-------------------------------------|---|
| Depot, station, headhouse or portal building | Rail alignment formation | Community forum boundary | Stopped-up PRoW |
| Tunnel portal | Landscape earthworks | Existing watercourse | Temporary PRoW diversion / realignment |
| Main construction compound | Engineering earthworks | Tunnels external extent | Temporary highway diversion / realignment |
| Satellite construction compound | County boundary | Construction traffic route | Main utility works |
| Temporary material stockpile | Borough / District boundary | Existing public right of way (PRoW) | |
| | Land potentially required during construction | New, diverted or realigned PRoW | |

Map Number **CT-05-143-R1**

Map Name **Construction Phase**

Community Forum Area Off-route
Modifications to WCML between Lichfield and Colwich

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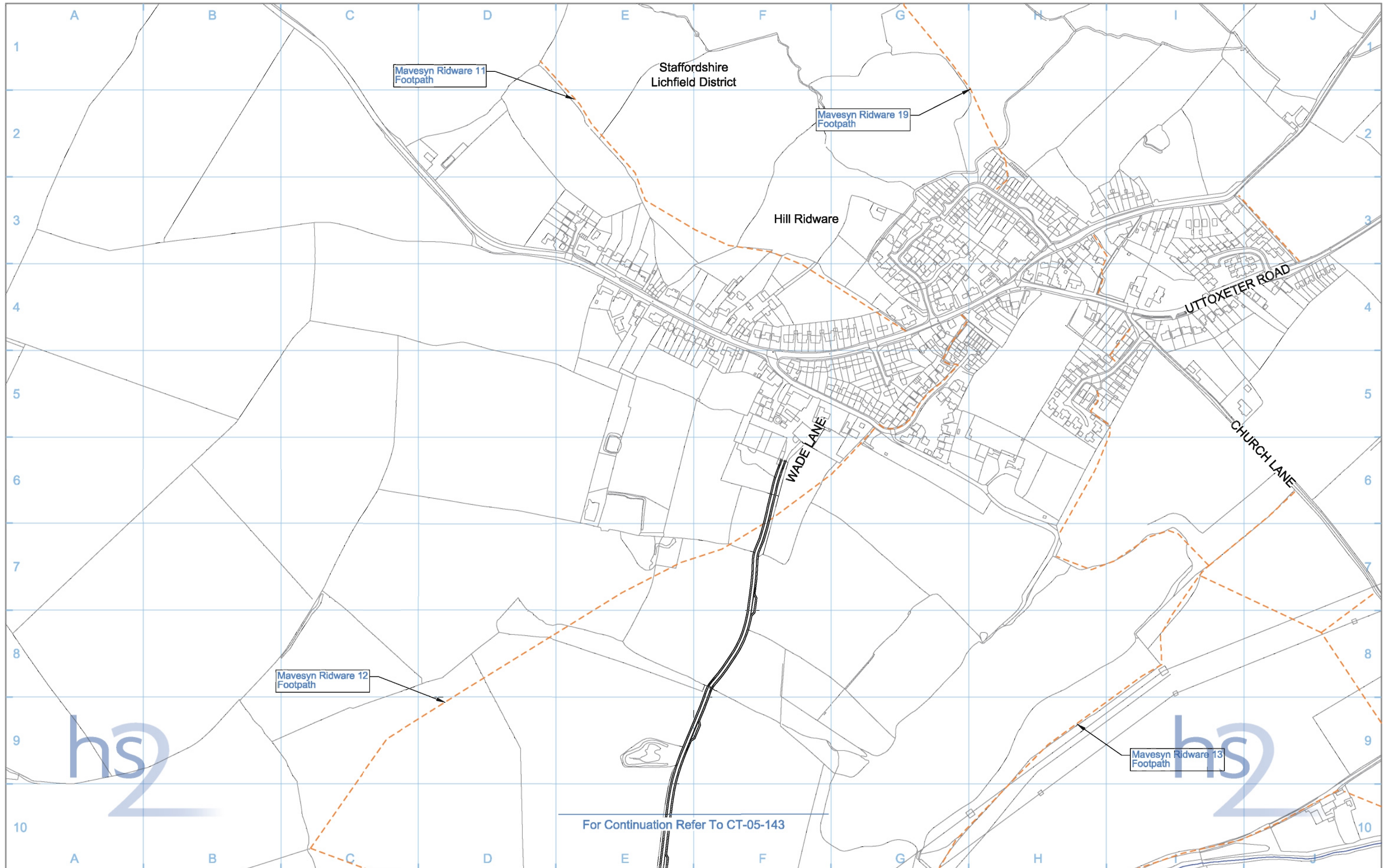
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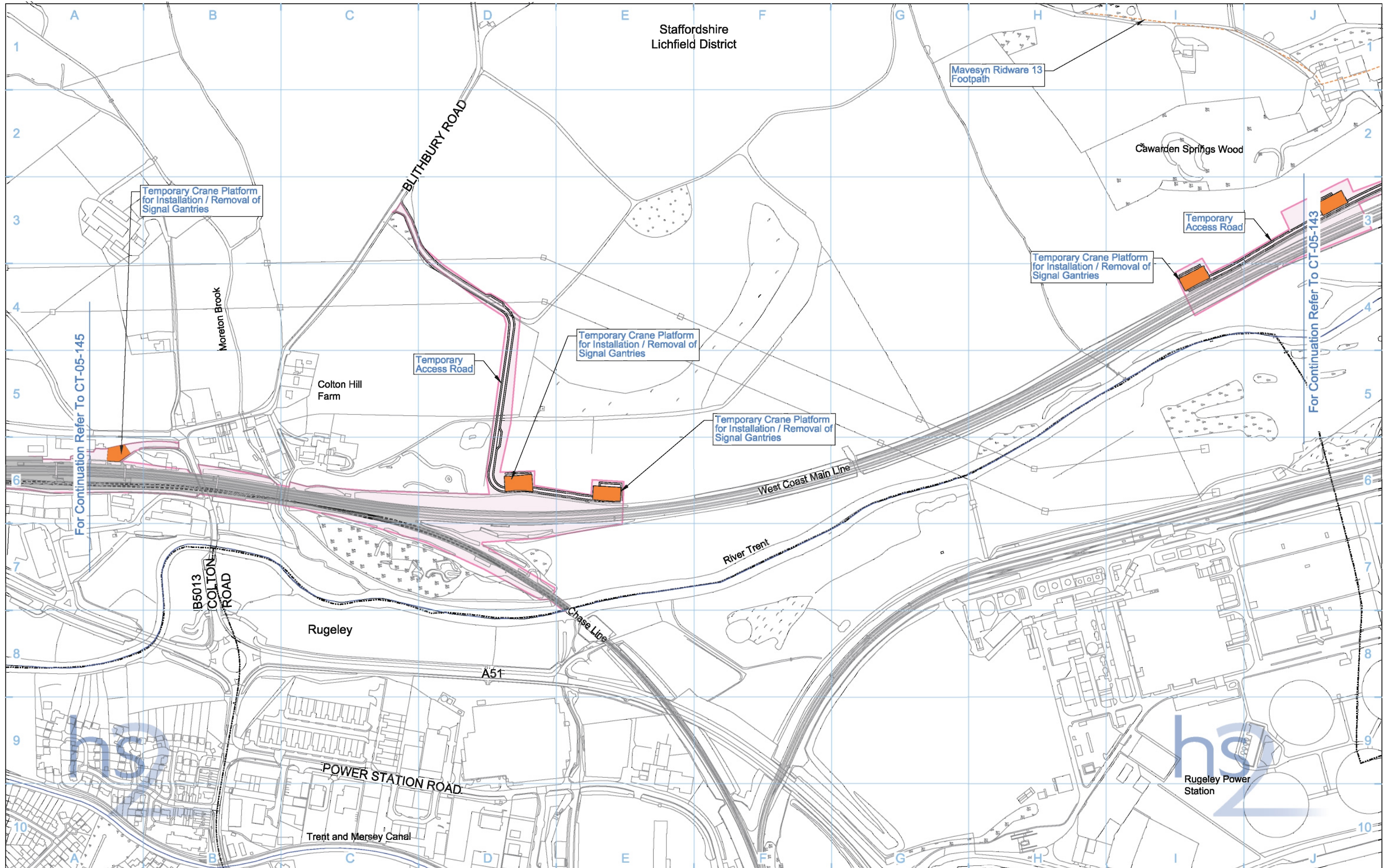
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Community forum boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT - Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number	CT-05-144
Map Name	Construction Phase
Community Forum Area	Off-route
Modifications to WCML between Lichfield and Colwich	

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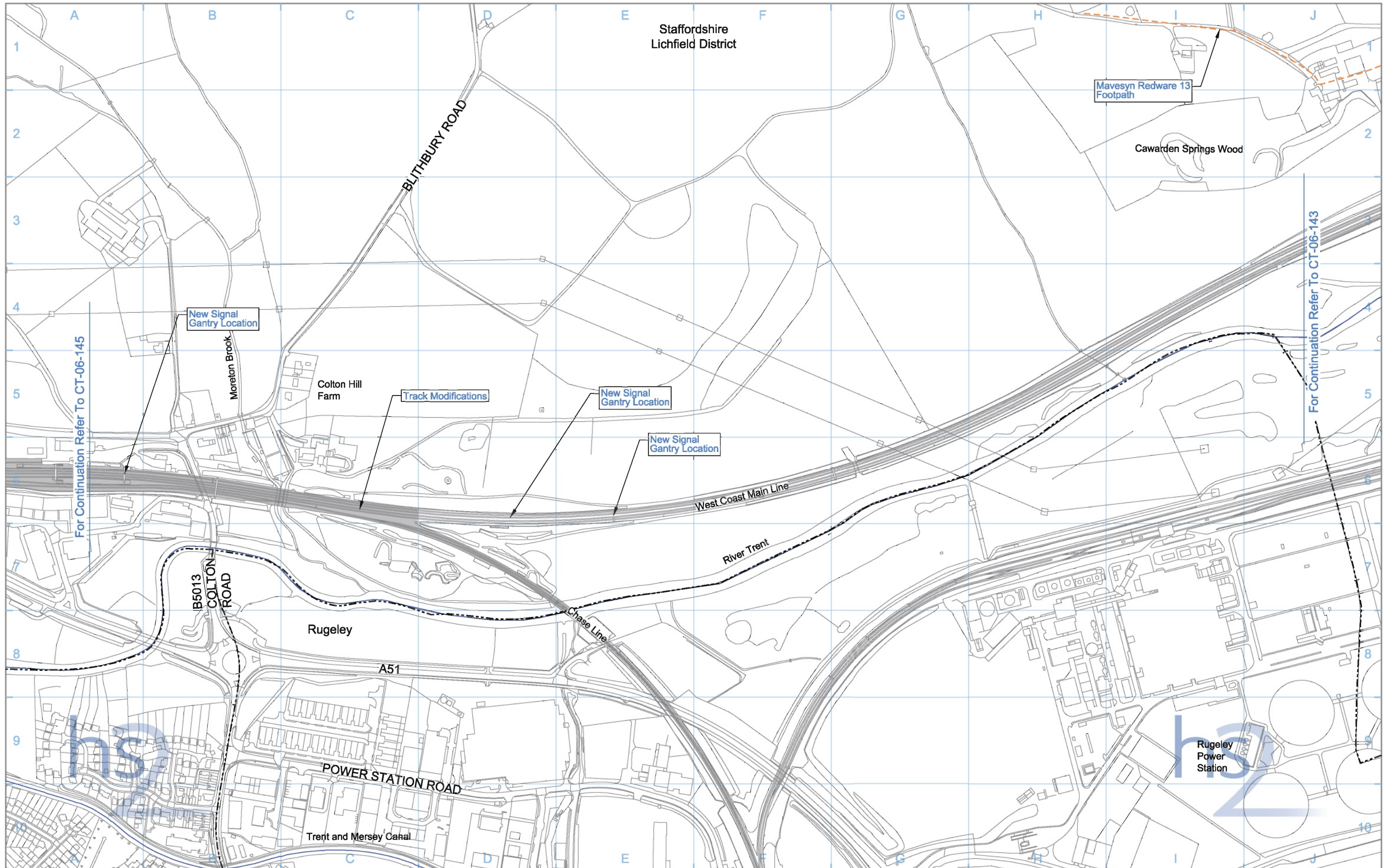
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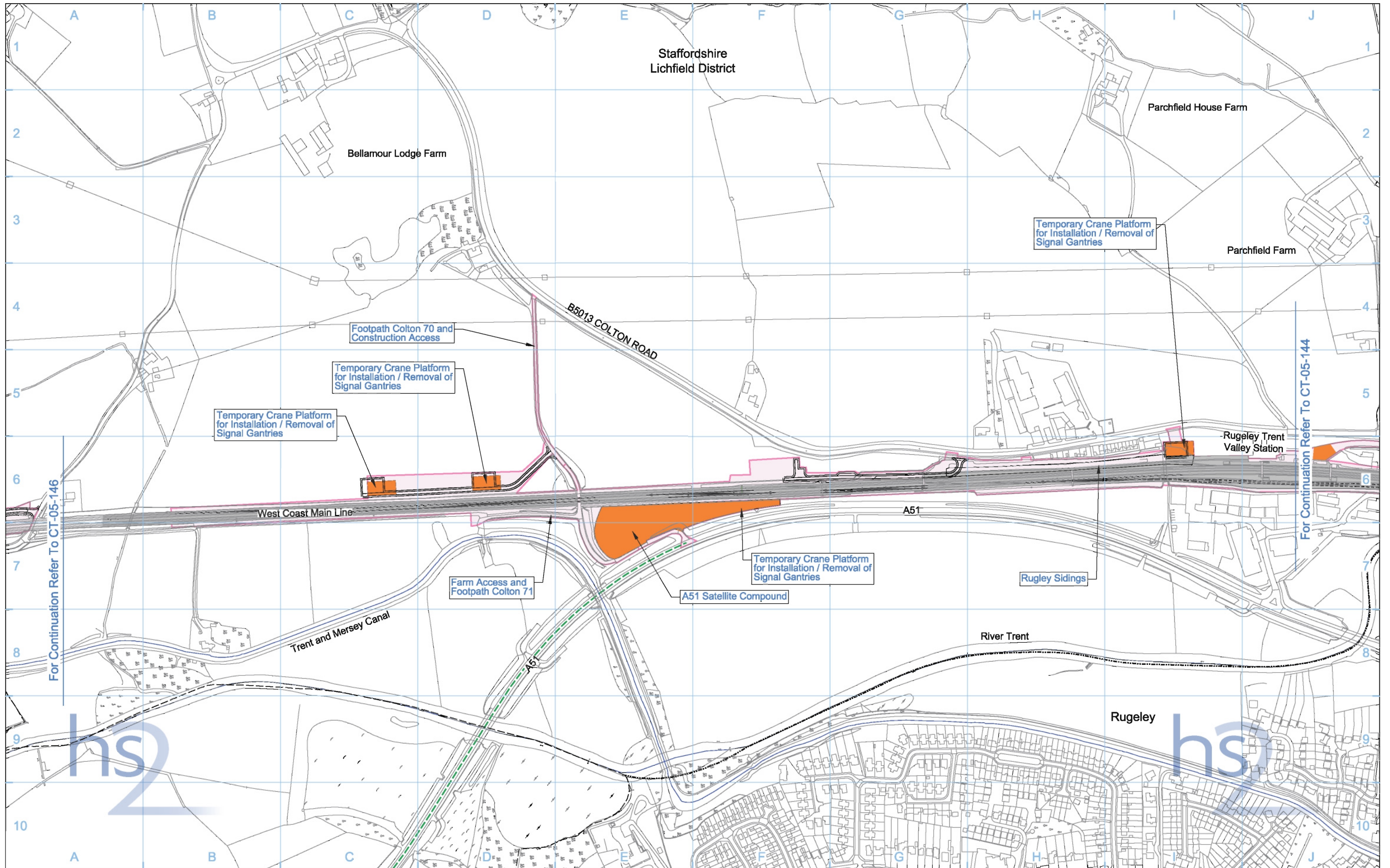
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Community forum boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number: **CT-05-145**

Map Name: **Construction Phase**

Community Forum Area: Off-route
Modifications to WCML between Lichfield and Colwich

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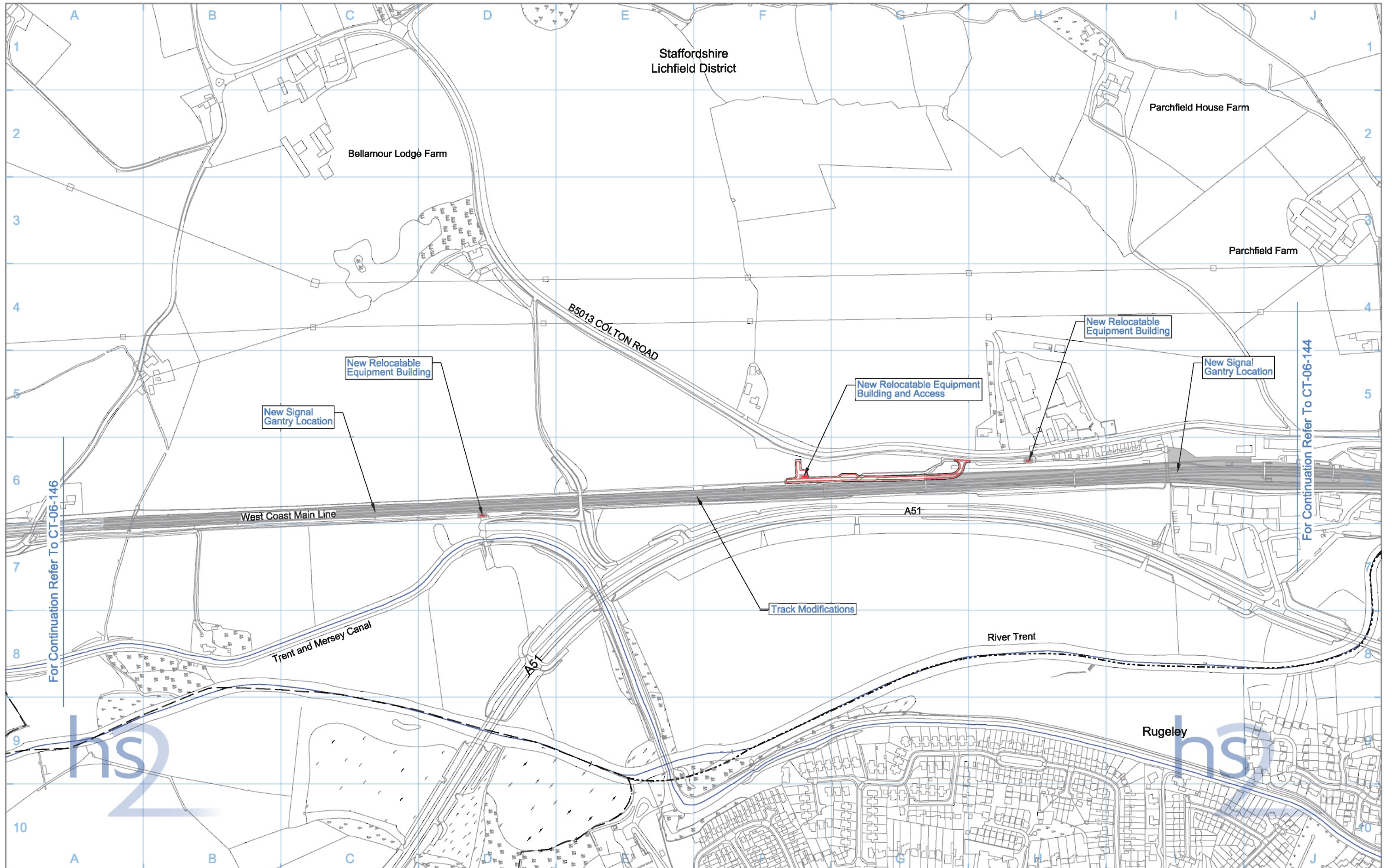
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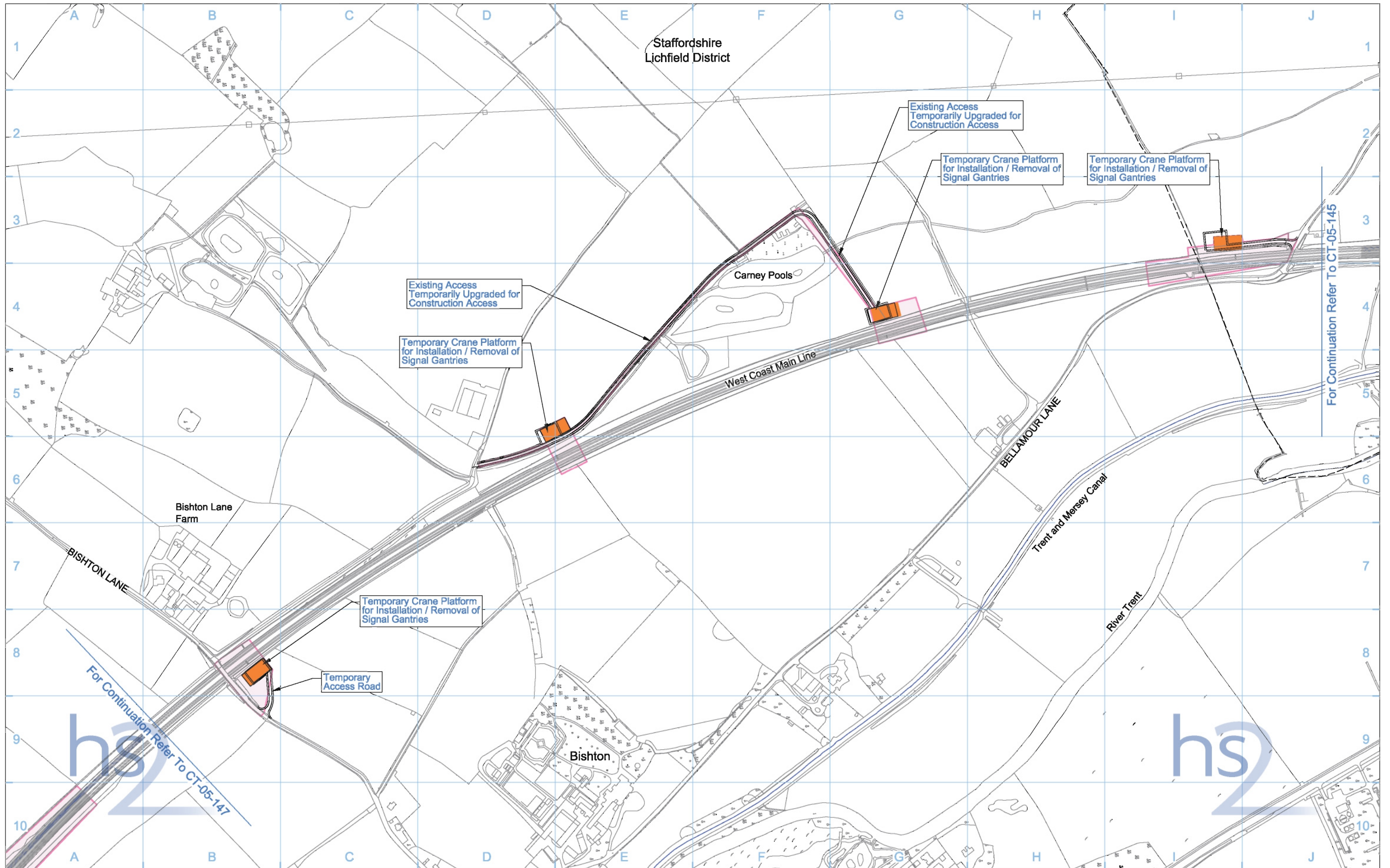
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Legend 		Map Number CT-06-145 Map Name Proposed Scheme Community Forum Area Off-route Modifications to WCML between Lichfield and Colwich	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791688 Registered office: Eland House, Bressenden Place, London SW1E 6DU Scale at A3: 1:5,000 © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C223-CSI-EV-DPL-030-629300 P03 Date: 29/10/13
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Main construction compound
	Satellite construction compound
	Temporary material stockpile
	Rail alignment formation
	Landscape earthworks
	Engineering earthworks
	County boundary
	Borough / District boundary
	Land potentially required during construction
	Community forum boundary
	Existing watercourse
	Tunnels external extent
	Construction traffic route
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Temporary PRoW diversion / realignment
	Temporary highway diversion / realignment
	UT - Main utility works
	Chainage (e.g. 10+000)
	Rail alignment

Map Number	CT-05-146
Map Name	Construction Phase
Community Forum Area	Off-route
Modifications to WCML between Lichfield and Colwich	

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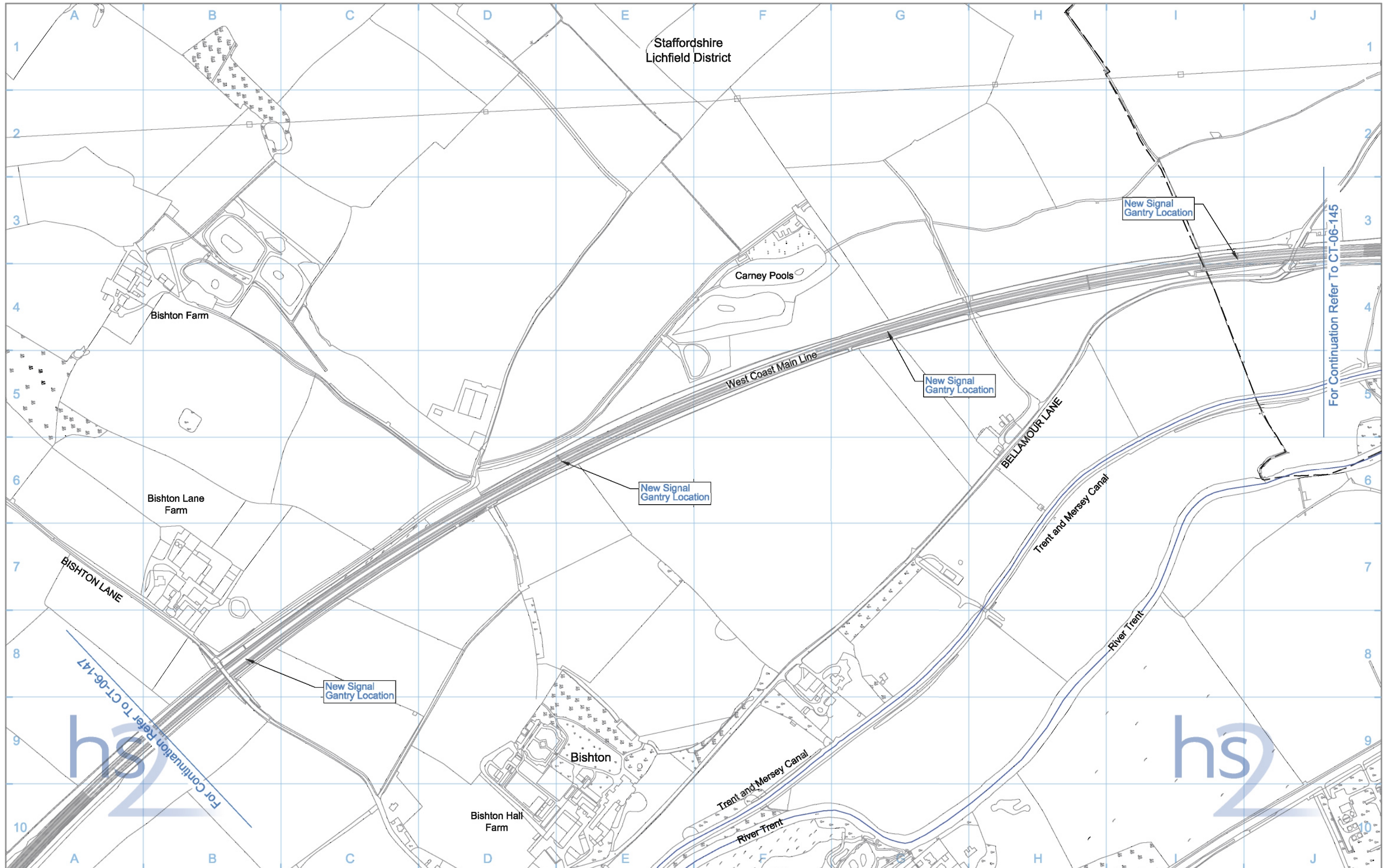
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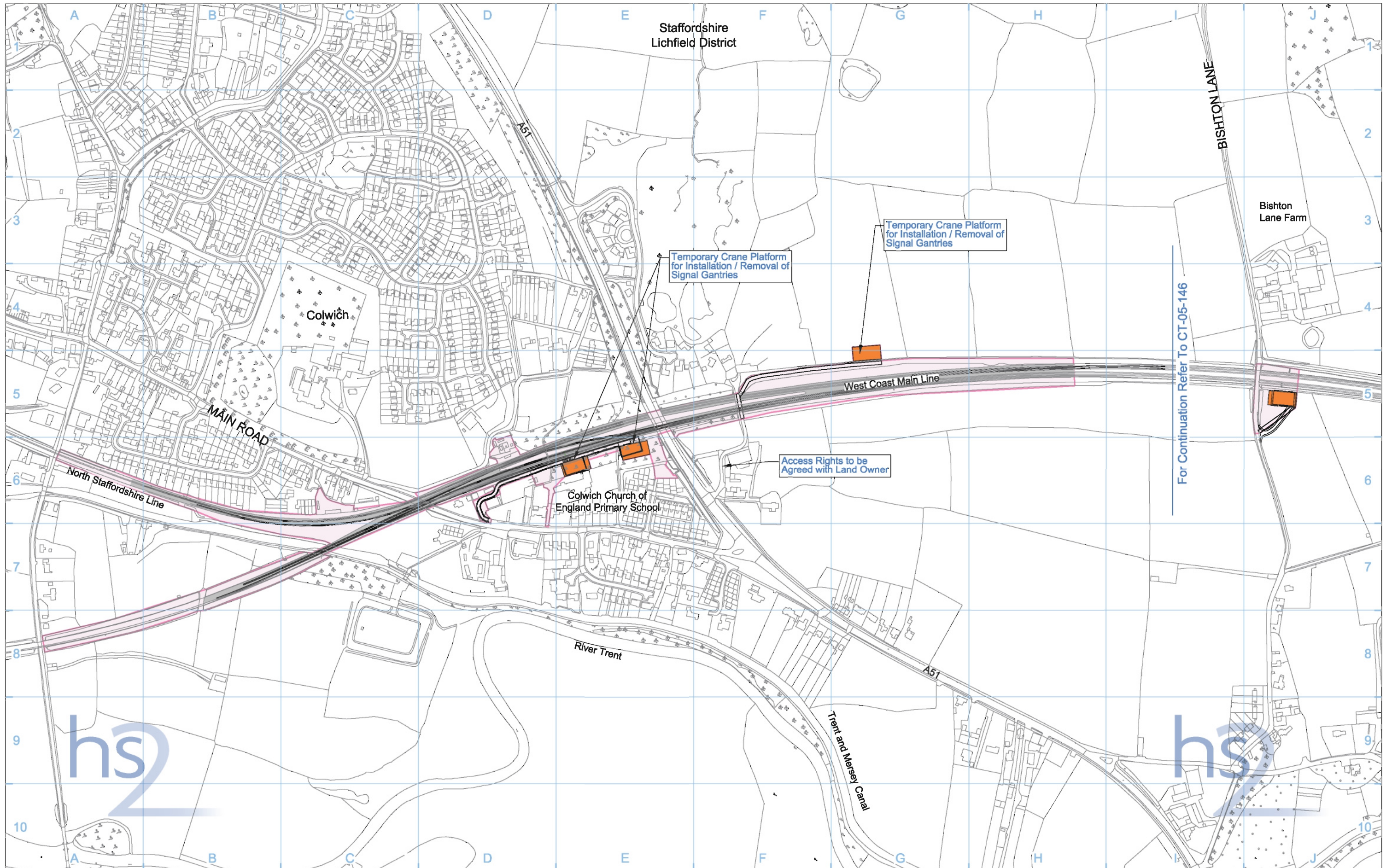
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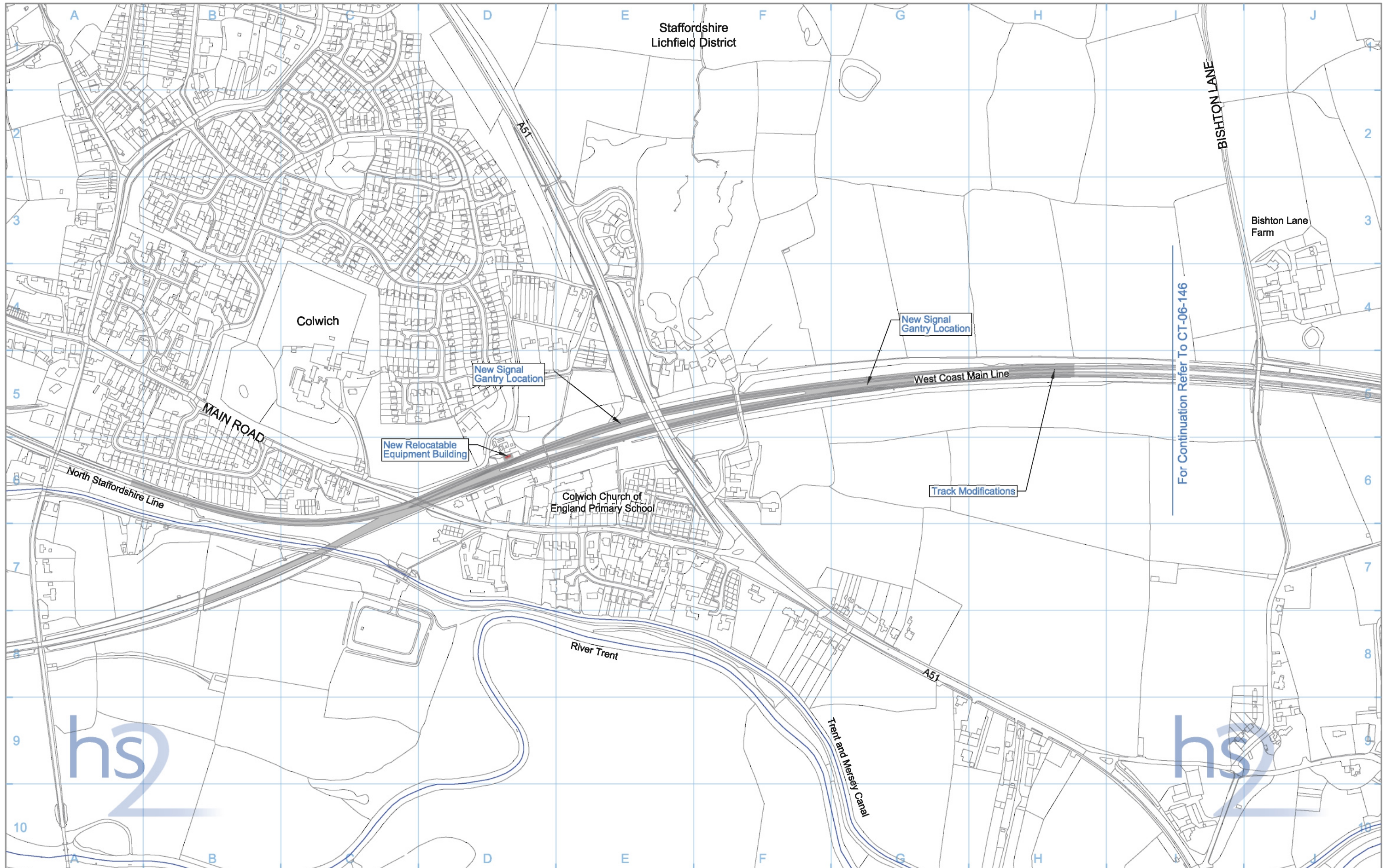
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Legend 		Map Number CT-06-146 Map Name Proposed Scheme Community Forum Area Off-route Modifications to WCML between Lichfield and Colwich	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England, Registration number 06791688 Registered office: Eland House, Bressenden Place, London SW1E 6DU Scale at A3: 1:5,000 © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100048190. Doc Number: C223-CSI-EV-DPL-030-629500 P04 Date: 29/10/13
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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 Temporary material stockpile Rail alignment formation Landscape earthworks Engineering earthworks County boundary Borough / District boundary Land potentially required during construction Community forum boundary Existing watercourse Tunnels external extent Construction traffic route Existing public right of way (PRoW) New, diverted or realigned PRoW Stopped-up PRoW Temporary PRoW diversion / realignment Temporary highway diversion / realignment - UT - Main utility works 		<p>Map Number CT-05-147</p> <p>Map Name Construction Phase</p> <p>Community Forum Area Off-route Modifications to WCML between Lichfield and Colwich</p>	<p>Chainage (e.g. 10+000)</p> <p>10+000</p> <p>Rail alignment</p>	<p>Map Number CT-05-147</p> <p>Map Name Construction Phase</p> <p>Community Forum Area Off-route Modifications to WCML between Lichfield and Colwich</p>	<p>hs2</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>Registered in England. Registration number 06791686 Registered office: Eland House, Bressenden Place, London SW1E 6DU</p> <p>Scale at A3: 1:5,000</p> <p>0 50 100 150 200 250 Metres</p> <p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100048190.</p> <p>Doc Number: C223-CSI-EV-DPL-030-529700 P02 Date: 29/10/13</p>
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland habitat creation
	Landscape mitigation planting (scrub / woodland)
	Grassed areas
	Sustainable placement
	Public realm
	Engineering earthworks
	Landscape earthworks
	Rail alignment formation
	Returned to suitable development use
	County boundary
	Borough / District boundary
	Community forum boundary
	Watercourse diversion
	Existing watercourse
	Ditches - new
	Hedgerow habitat creation
	UT - Main utility works
	Existing public right of way (PRoW)
	New, diverted or realigned PRoW
	Stopped-up PRoW
	Tunnels external extent
	Rail alignment
	HS2 Access road
	Noise fence barrier
	Chainage (e.g. 10+000)

Map Number: **CT-06-147**

Map Name: **Proposed Scheme**

Community Forum Area: **Off-route**

Modifications to WCML between Lichfield and Colwich

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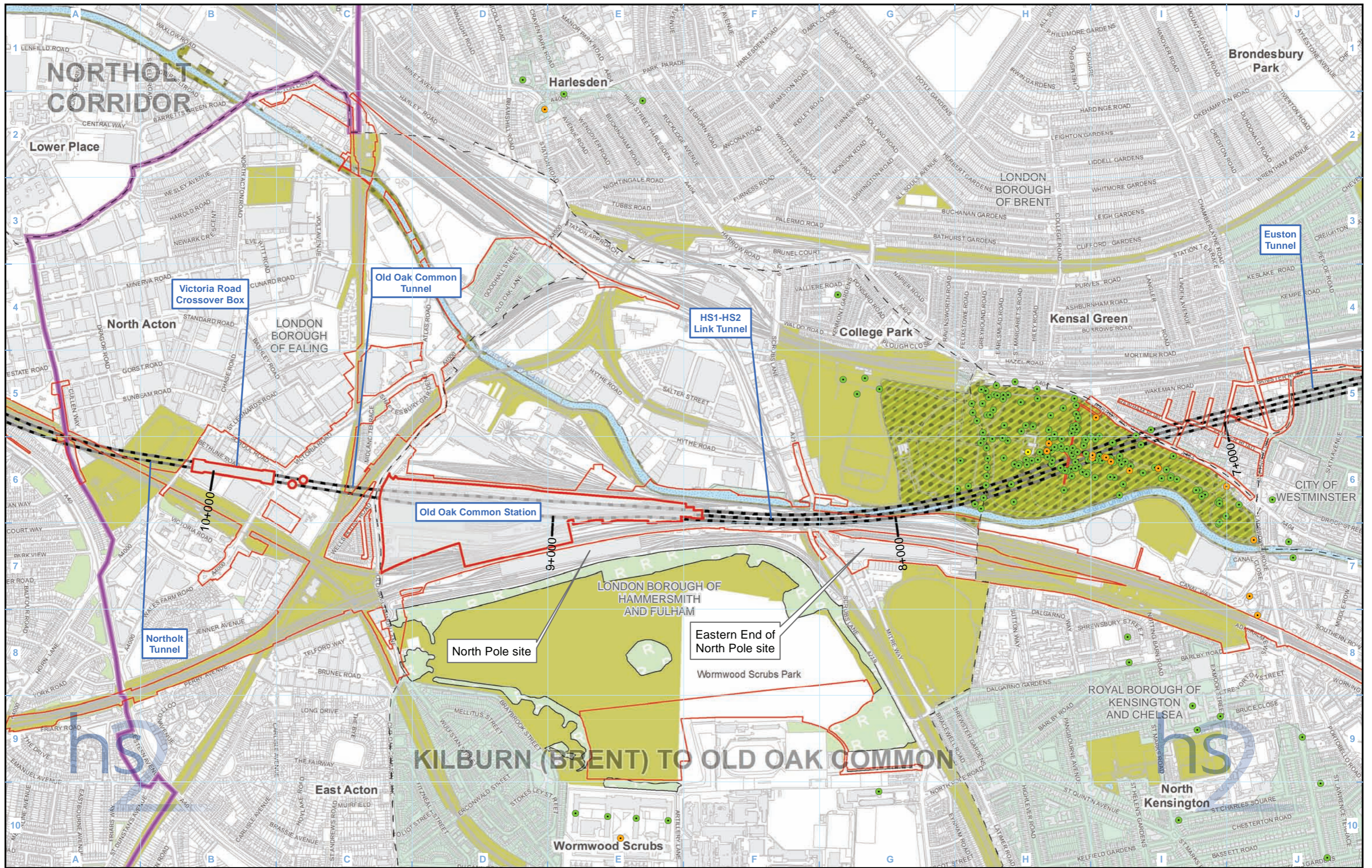


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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CT-18 - Environmental Baseline -

Proposed Sites for Relocation of Heathrow Express (HEX) and First Great Western (FGW) Depots



Legend

Route in tunnel	Watercourse	Conservation area	Site of Special Scientific Interest (SSSI)
Route on surface	Water body	Scheduled monument	National Nature Reserve (NNR)
Depot, station, headhouse or portal building	Woodland	Listed building Grade I	Local Nature Reserve (LNR)
Land potentially required during construction		Listed building Grade II*	Local Wildlife Site (LWS) - county/metropolitan value
Community forum boundary		Listed building Grade II	Local Wildlife Site (LWS) - less than county/metropolitan value
County boundary		Registered park or garden	Ancient woodland
District/Borough boundary			

Map Number **CT-18**

Map Name
Proposed Sites for Replacement Facilities for Heathrow Express (HEX) and First Great Western (FGW)

Community Forum Area CFA4:
 Kilburn (Brent) to Old Oak Common

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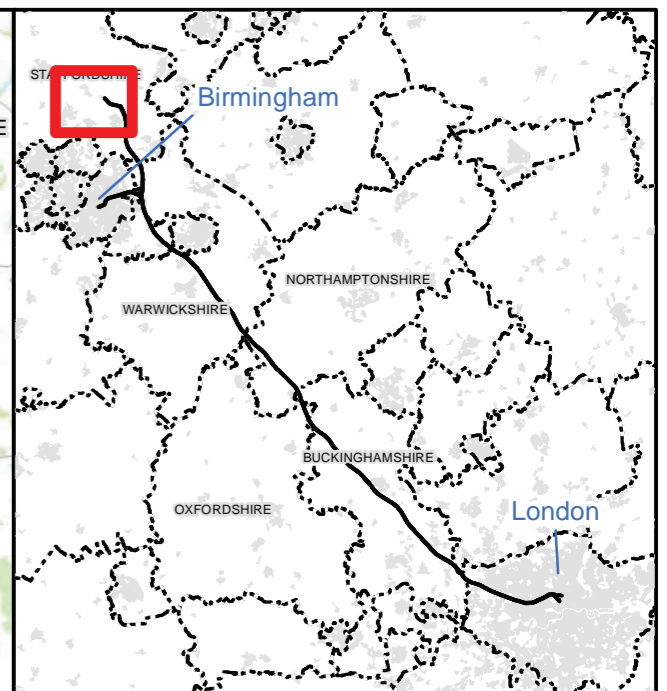
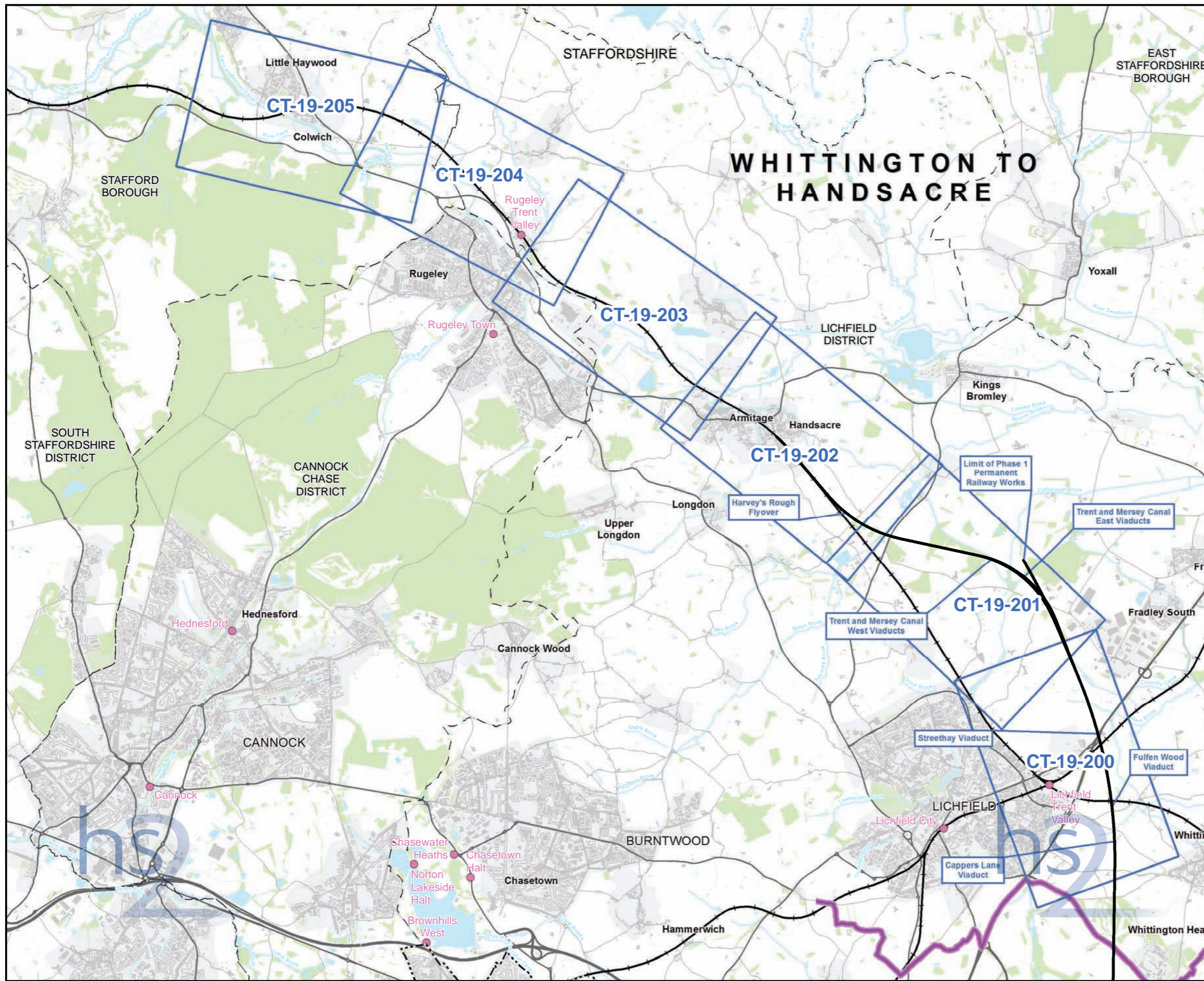
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Doc Number: C251-ETM-EV-MAP-010-001316-P05.00 **Date: 18/10/13**

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

CT-19 - Environmental Baseline -

Modification to West Coast Main Line (WCML) between Litchfield and Colwich



Map Series Information:

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

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community forum boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community forum

Map Number **CT-19-INDEX-V4WCM**

Map Name
**Index Map of:
 Modification to West Coast Main Line
 (WCML) between Litchfield and Colwich**

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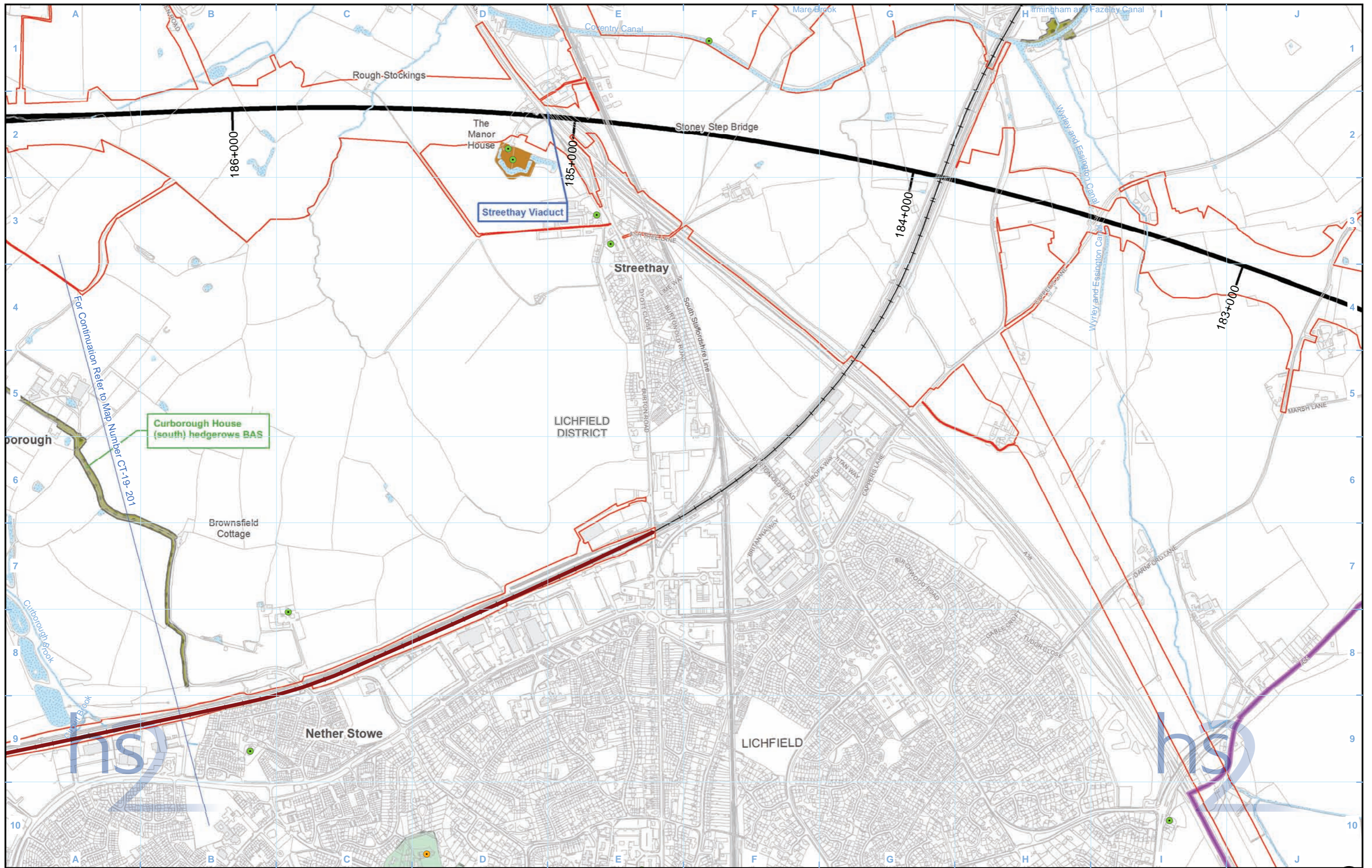
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Legend			
	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		Listed building Grade I
	Community forum boundary		Listed building Grade II*
	County boundary		Listed building Grade II
	District/Borough boundary		Registered park or garden
	Conservation Areas		Site of Special Scientific Interest (SSSI)
	Scheduled Monument		National Nature Reserve (NNR)
	Listed building Grade I		Local Nature Reserve (LNR)
	Listed building Grade II*		Local Wildlife Site (LWS) - county/metropolitan value
	Listed building Grade II		Local Wildlife Site (LWS) - less than county/metropolitan value
	Registered park or garden		Ancient woodland
	West Coast Main Line (WCML) subject to modification works that are assessed in volume 4		

Map Number	CT-19-200
Map Name	Environmental Baseline
Modification to West Coast Main Line (WCML) between Litchfield and Colwich	

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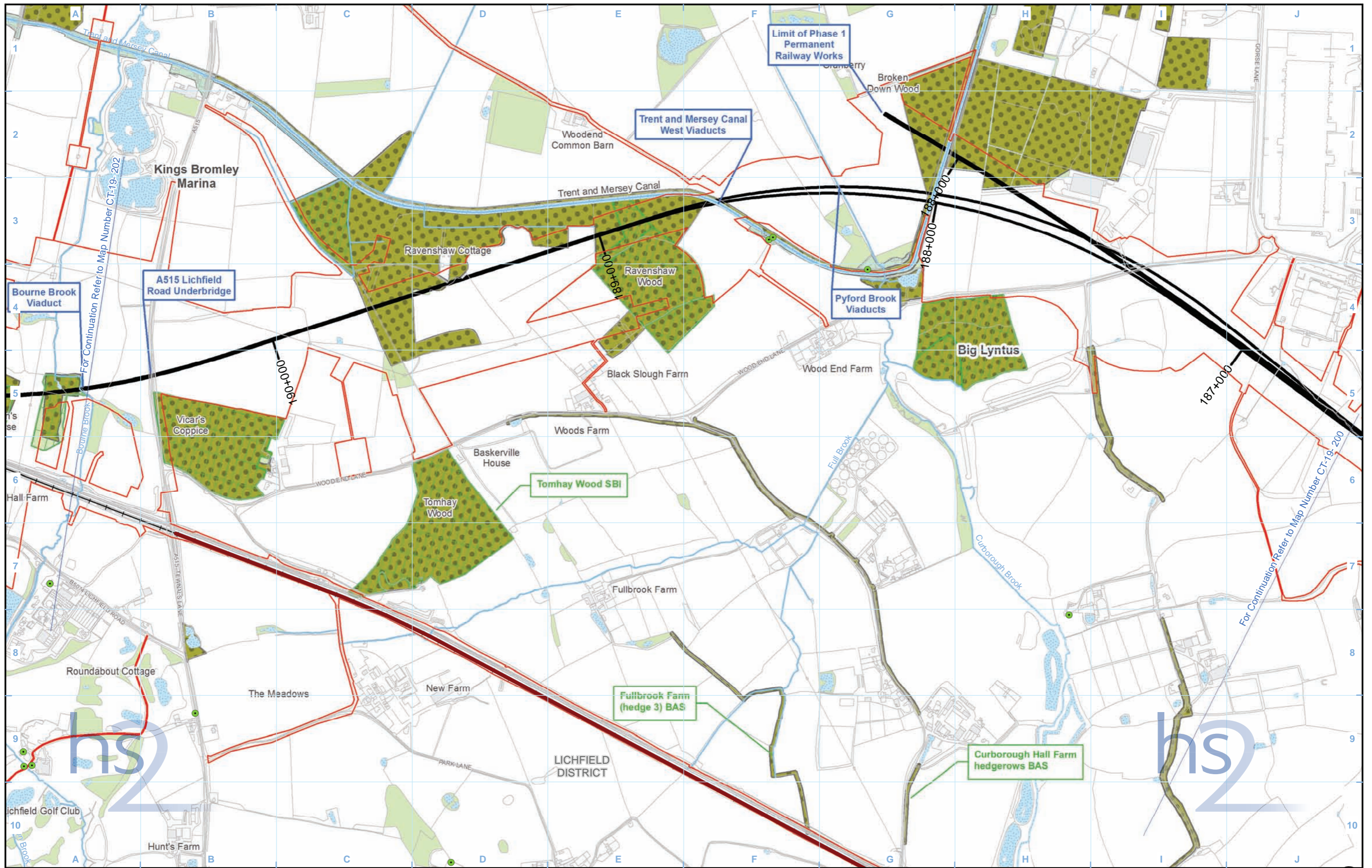
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Legend			

Map Number	CT-19-201
Map Name	Environmental Baseline
Modification to West Coast Main Line (WCML) between Litchfield and Colwich	

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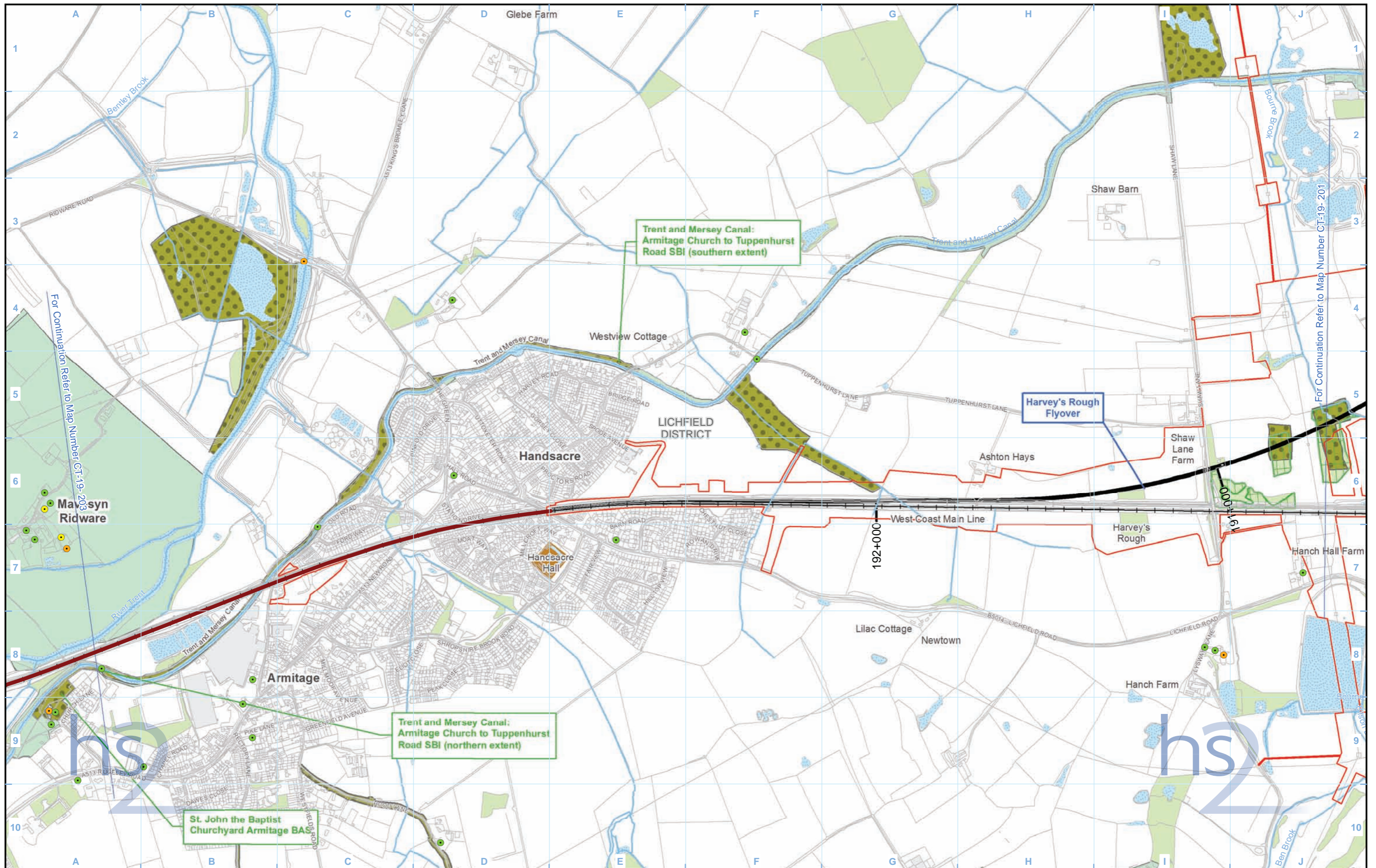
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Date: 31/10/13



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 forum boundary		Scheduled Monument
	County boundary		Listed building Grade I
	District/Borough boundary		Listed building Grade II*
			Listed building Grade II
			Registered park or garden
	Site of Special Scientific Interest (SSSI)		Local Nature Reserve (LNR)
	National Nature Reserve (NNR)		Local Wildlife Site (LWS) - county/metropolitan value
	Local Nature Reserve (LNR)		Local Wildlife Site (LWS) - less than county/metropolitan value
	Local Wildlife Site (LWS) - county/metropolitan value		Ancient woodland
	Local Wildlife Site (LWS) - less than county/metropolitan value		West Coast Main Line (WCML) subject to modification works that are assessed in volume 4

Map Number	CT-19-202
Map Name	Environmental Baseline
Modification to West Coast Main Line (WCML) between Litchfield and Colwich	

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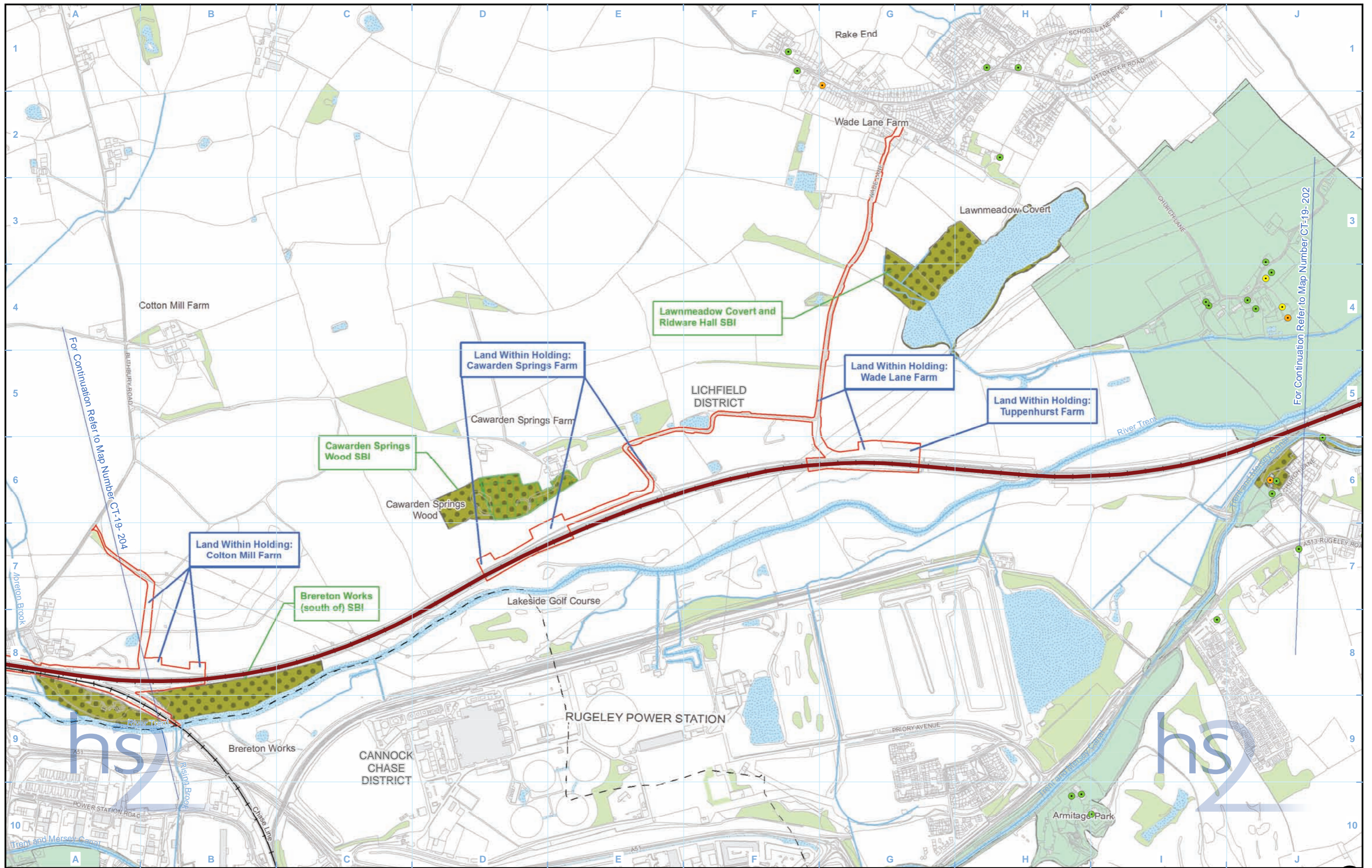
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Legend			

Map Number	CT-19-203
Map Name	Environmental Baseline
Modification to West Coast Main Line (WCML) between Litchfield and Colwich	

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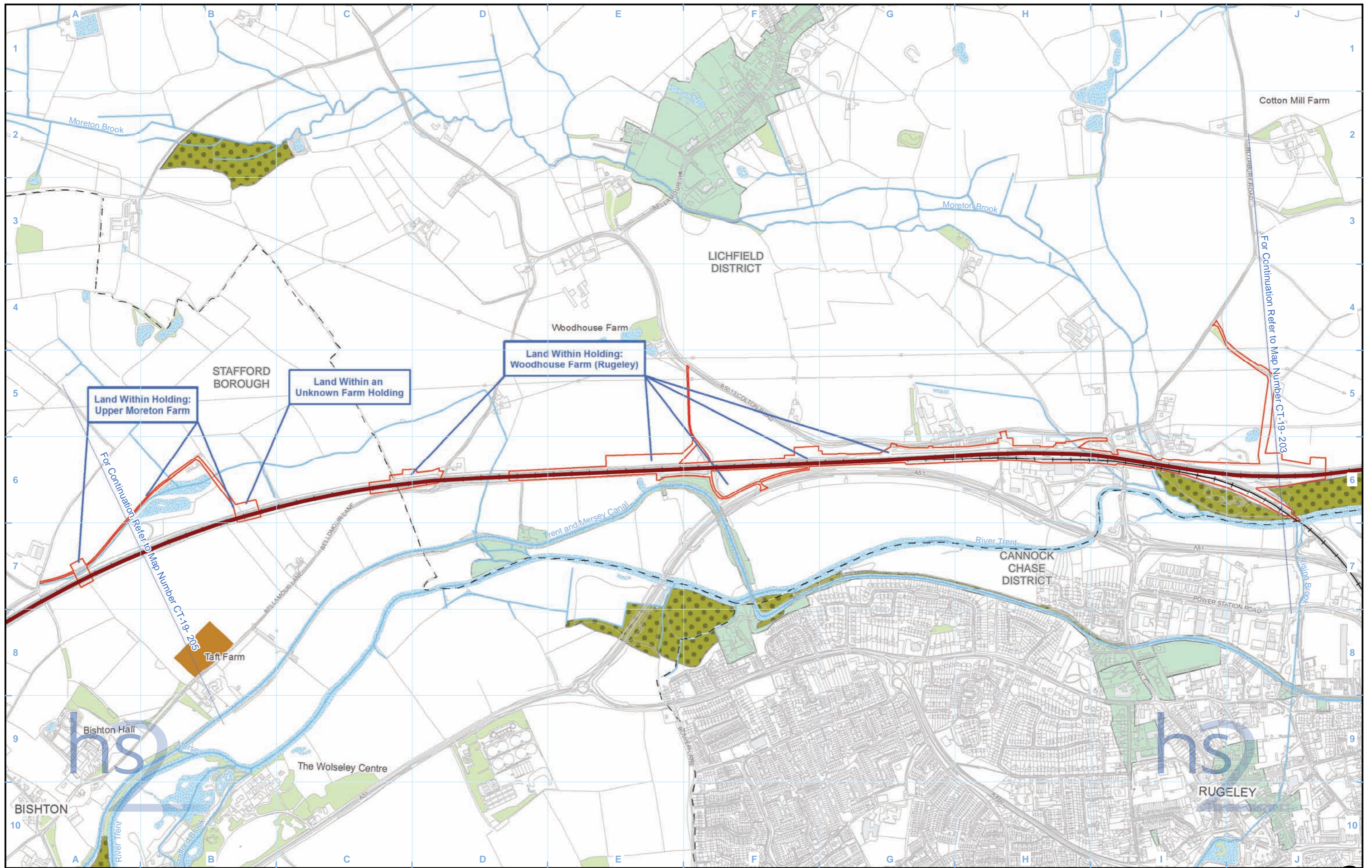
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Legend			

Map Number	CT-19-204
Map Name	Environmental Baseline
Modification to West Coast Main Line (WCML) between Lichfield and Colwich	

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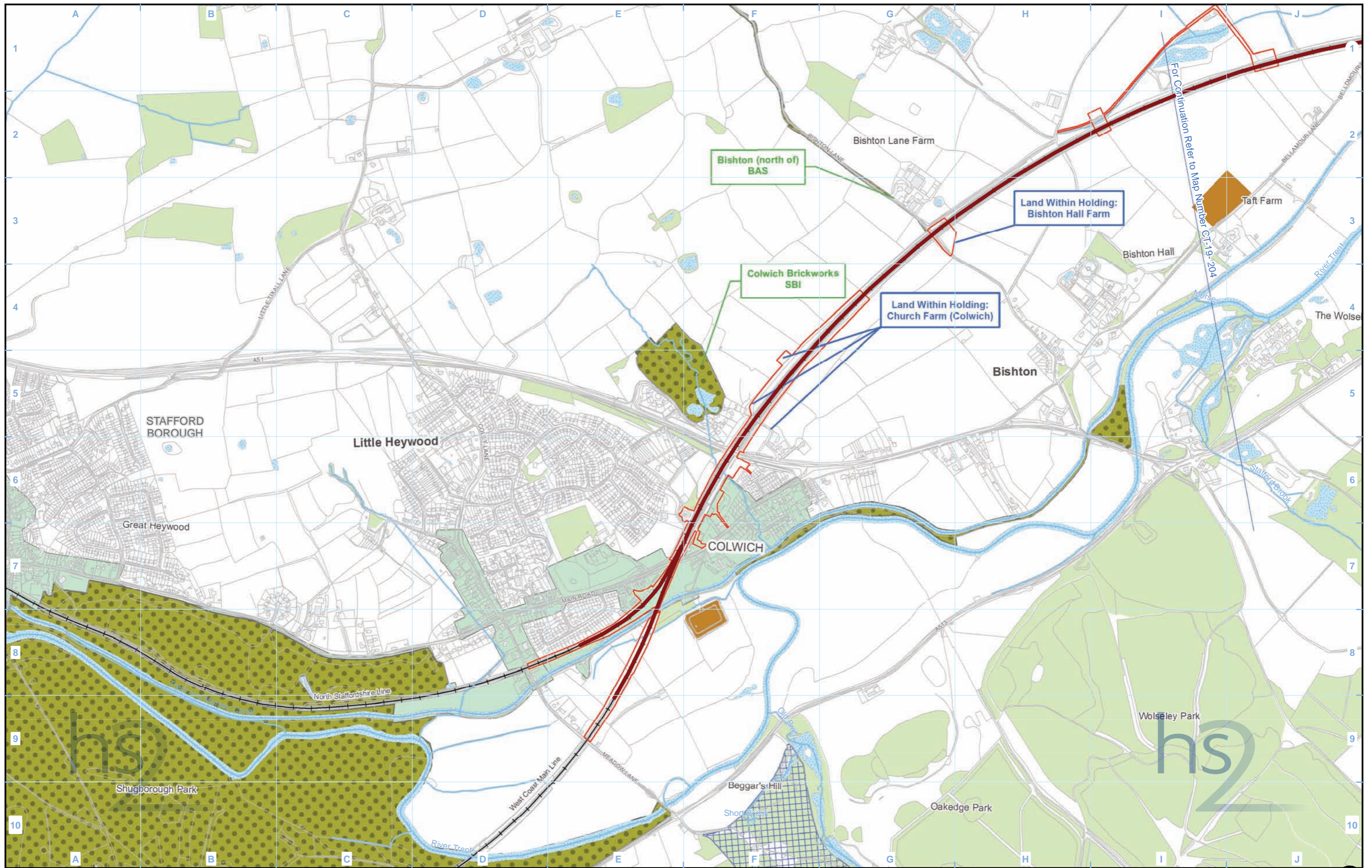
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Legend			

Map Number	CT-19-205
Map Name	Environmental Baseline
Modification to West Coast Main Line (WCML) between Litchfield and Colwich	

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