

High Speed Rail (West Midlands - Crewe) Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Technical appendices map book

Landscape and visual
(LV-00, LV-02, LV-07, LV-08)

High Speed Rail (West Midlands - Crewe)
Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement
Volume 5: Technical appendices map book
Landscape and visual
(LV-00, LV-02, LV-07, LV-08)



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.

High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.hs2.org.uk

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

ARUP



WSP

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard, please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2019, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/2 **OGL** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



Printed in Great Britain on paper containing at least 75% recycled fibre.

Contents

Mapping explanatory notes

Data dictionary and definitions

LV-00 - Route Wide Landscape Character Areas and National Character Areas

Map series name	Map series description
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-07 - Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints	Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the Proposed Scheme has been undertaken. (All significant and non-significant photomontage locations are shown).
LV-08 - Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints	Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the Proposed Scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Mapping explanatory notes

Structure of the HS2 Phase 2a Supplementary Environmental Statement 2 and the Additional Provision 2 Environmental Statement

This map book is part of the suite of documents that make up the Supplementary Environmental Statement 2 (SES2) and the Additional Provision Environmental Statement 2 (AP2 ES) for Phase 2a of the proposed High Speed Two (HS2) rail network between the West Midlands and Crewe.

The SES2 and the AP2 ES are separate documents. However, they are bound together and presented in a number of volumes as described below:

- Non-technical summary (NTS). This provides a summary in non-technical language of the SES2 (Part 1) and the AP2 ES (Part 2). It presents a summary of any likely residual significant environmental effects (i.e. effects that are likely to remain after mitigation measures are put in place), both beneficial and adverse, which are new or different to those reported in the Environmental Statement (ES) submitted to Parliament in July 2017 in support of the hybrid Bill for Phase 2a of HS2 ('the main ES'), as amended by SES1 and, where relevant, AP1 ES;
- Glossary of terms and list of abbreviations. This contains any new or different terms and abbreviations used throughout the SES2 and the AP2 ES, which are not already explained in the main ES or SES1 and AP1 ES;
- Volume 1: Introduction to the SES2 and the AP2 ES. This introduces the supplementary environmental information and changes to the design and construction assumptions included within the SES2 and amendments within the AP2 ES. The report explains the environmental impact assessment (EIA) process that has been applied;
- Volume 2: Community area reports and map books. These report the supplementary environmental information and changes to the design and construction assumptions included within the SES2 (Part 1), amendments within the AP2 ES (Part 2) and any new or different likely significant environmental effects arising from these changes or assumptions and amendments in each community area. These effects are compared to those reported in the main ES, as amended by SES1 (and by SES2 for AP2). The AP1 amendments are also taken into account where relevant. The maps relevant to each community area are provided in separate Volume 2 map books and should be read in conjunction with the relevant community area report;
- Volume 3: Route-wide effects. This describes any new or different likely significant environmental effects arising at a route-wide level from the supplementary environmental information and changes to the design and construction assumptions included within the SES2 (Part 1) and the amendments within the AP2 ES (Part 2) compared to those reported in the main ES, as amended by SES1 (and by SES2 for the AP2 amendments). The AP1 amendments are also taken into account where relevant; and
- Volume 5: Appendices and map books. These contain supporting environmental information and associated maps.

A Volume 4: Off-route effects report was produced as part of the main ES. A separate Volume 4 has not been produced as part of the SES2 and AP2 ES. Any new or different significant effects arising from the AP2 amendments are reported in the most relevant Volume 2 community area report.

Certain reports and maps containing background information and data (BID) have been produced, which do not form part of the SES2 and AP2 ES. These documents are available online at www.gov.uk/hs2. The BID documents and maps present background survey information and other relevant background material.

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 SES2 and the AP2 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 SES2 and the AP2 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 sheet layout

Each map in Volume 2 is presented twice, with the main ES map (published July 2017) on the left hand page, where relevant, and the SES2 and the AP2 ES map on the right. For the maps which show the amendment to the Handsacre Junction connection the map from the relevant Phase One Additional Provision Environmental Statement (e.g. AP2 or AP4) is on the left hand page. For the CT-05 and CT-06 map series, the SES2 and the AP2 ES map is annotated with different coloured clouds which highlight the areas of change. The coloured text box provides a brief description of the design change and amendment, and gives the SES2 and the AP2 ES reference number. Only maps which have been amended as a result of the SES2 and the AP2 ES are included within the map books. Other design changes which are within the existing limits of the Bill and do not result in new or different likely significant effects are also shown on the maps, but are not indicated by a cloud. The below table highlights the coloured clouds used, and their description.

Cloud / text box colour	Description
Blue	Design changes relating to the SES2 (Part 1 of each Volume 2 report).
Red	Proposed amendments relating to the AP2 ES (Part 2 of each Volume 2 report).
Grey	Proposed design changes and amendments relating to SES1 changes and AP1 amendments, provided for reference.

SES changes and AP amendments (now referred to as SES1 changes and AP1 amendments) were denoted in the SES and AP ES documents and maps as follows: SES-00X-00X or AP-00X-00X. In order to clearly distinguish between SES1 and SES2 changes and AP1 and AP2 amendments, references in the SES2 and AP2 ES documents and maps relating to SES1 changes and AP1 amendments are now denoted as follows: SES1-00X-00X or AP1-00X-00X.

Each Volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the SES2 and the AP2 ES reference number. For more detailed information about the SES2 and the AP2 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES2 and the AP2 ES are included within the map book. Changes to receptors or significant effects relating to SES1 or AP1 ES are also provided for reference. Where this is the case they are shown in a faded box.

Further details on the approach to mapping is set out in Section 6 of Volume 1 of the SES2 and AP2 ES.

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 Crewe to the left.

The exception to this, are map series 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 Crewe to the top.

Map books

In total there are 16 map books which make up the SES2 and the AP2 ES, spread across volumes 2 and 5. A list of the titles is provided below for reference.

Name
Volume 2: Map book – CA1: Fradley to Colton
Volume 2: Map book – CA2: Colwich to Yarlet
Volume 2: Map book – CA3: Stone and Swynnerton
Volume 2: Map book – CA4: Whitmore Heath to Madeley
Volume 2: Map book – CA5: South Cheshire
Volume 5: Map book – Agriculture, forestry and soils (AG-01, AG-02, AG-04)
Volume 5: Map book – Air quality (AQ-01)
Volume 5: Map book – Community (CM-01)
Volume 5: Map book – Committed developments (CT-13)
Volume 5: Map book – Cultural heritage (CH-01, CH-02, CH-03)
Volume 5: Map book – Ecology - designated sites (EC-01)
Volume 5: Map book – Landscape and visual (LV-00, LV-02, LV-07, LV-08)
Volume 5: Map book – Socio-economics (SE-01)
Volume 5: Map book – Sound, noise and vibration (SV-01, SV-02, SV-03, SV-04)
Volume 5: Map book – Traffic and transport (TR-03, TR-04, TR-08)
Volume 5: Map book – Water resources (WR-05, WR-06)

High Speed Rail (West Midlands - Crewe)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
5m contours	5m contour lines showing illustrating the surrounding topography.	GeoStore	©GeoPerspectives
Area of Outstanding Natural Beauty (AONB)	An Area of Outstanding Natural Beauty (AONB) is an area of high scenic quality which has statutory protection in order to conserve and enhance the natural beauty of its landscape. AONB landscapes range from rugged coastline to water meadows to gentle lowland and upland moors. Natural England has a statutory power to designate land as Areas of Outstanding Natural Beauty under the Countryside and Rights of Way Act 2000.	Natural England	© Natural England copyright 2018
Community area boundary	The Environmental Statement has been split into 5 sections called Community Areas.	High Speed Two (HS2) Ltd	© 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.
Construction compounds	Main construction compounds in which main contractors offices and welfare facilities will be located. Satellite construction compounds which serve local works for major construction elements within a main contract.	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	
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.
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	
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	
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	

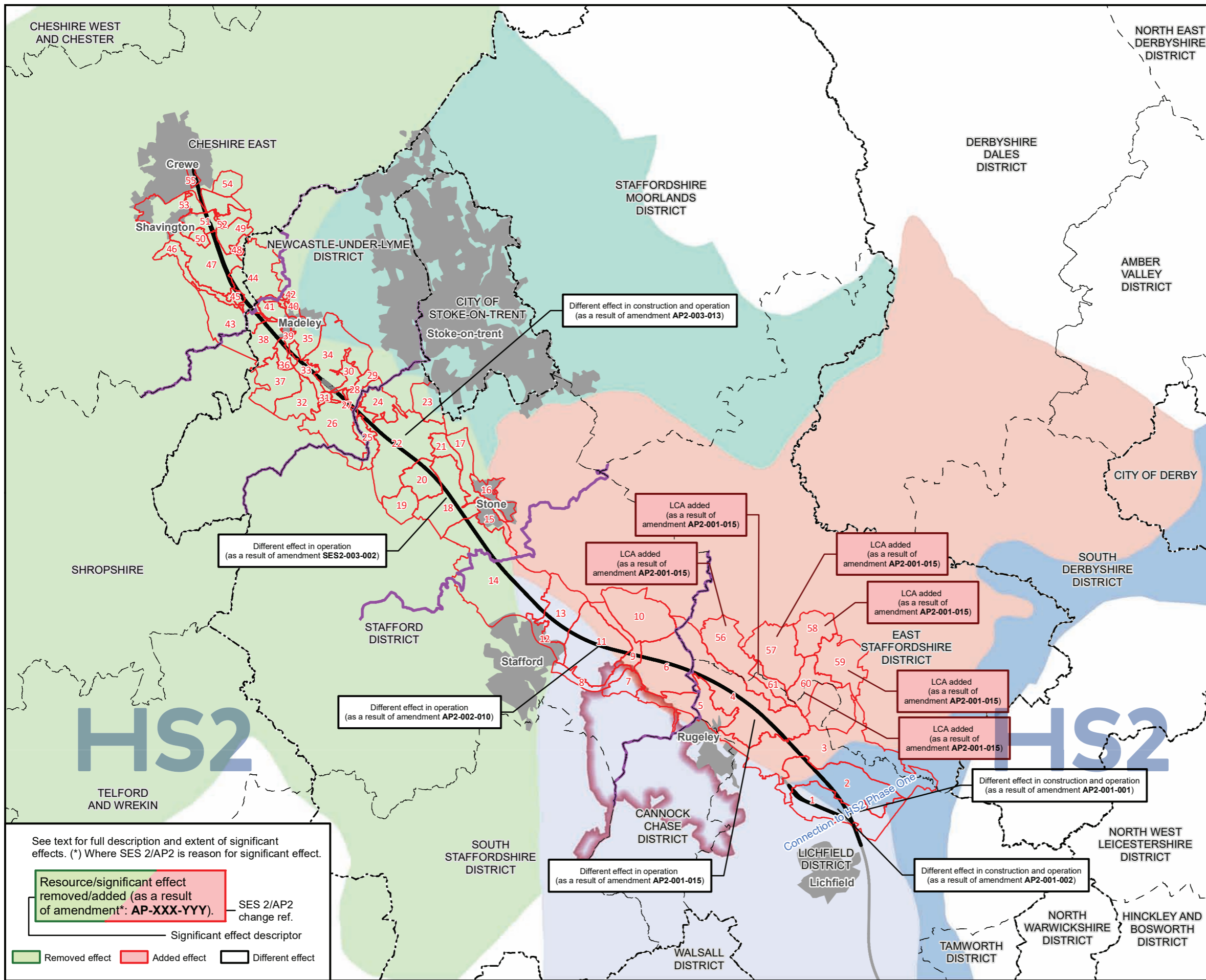
Legend features	Definition	Source	Copyright
Non engineering earthworks: Cutting	Cuttings created in the construction of landscape features and mitigation measures.	High Speed Two (HS2) Ltd	
Non engineering earthworks: Embankment	Embankments created in the construction of landscape features and mitigation 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	
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	
Public Rights of Way (PROW)	Public rights of way are highways which can be used for the following purposes: <ul style="list-style-type: none"> - Footpaths - pedestrian's 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.	Staffordshire County Council Cheshire East Council	© 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. © Staffordshire County Council © Cheshire East Council
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	
Significantly affected viewpoint Non 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	
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.
Zone of Theoretical Visibility (ZTV) construction	This is a computer generated model showing areas of land within which the activities undertaken during the construction of the scheme may be theoretically visible. ZTV has been used as a tool for identifying likely areas for survey and assessment based on initial scheme design.	High Speed Two (HS2) Ltd	
Zone of Theoretical Visibility (ZTV) operation year 1	This is a computer generated model showing areas of land within which the scheme may be theoretically visible on day 1 of operation.	High Speed Two (HS2) Ltd	
Zone of Theoretical Visibility (ZTV) operation year 15	This is a computer generated model showing areas of land within which the scheme may be theoretically visible after 15 years of operation by incorporating an assumed height of 7.5 metres for any mitigation planting.	High Speed Two (HS2) Ltd	

This page is left intentionally blank

High Speed Rail (West Midlands - Crewe)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

Route Wide Landscape Character Areas and
National Character Areas (LV-00)



ID	Landscape Character Area
1	Fradley Settled Heathlands
2	Kings Bromley Terrace Alluvial Lowlands
3	Trent Riparian Alluvial Lowlands
4	Colton and Stockwell Heath Settled Farmlands
5	Colton Riparian Alluvial Lowlands
6	Great Haywood Settled Plateau Farmland Slopes
7	Shugborough Designed Parkland
8	Shugborough Riparian Alluvial Lowlands
9	Ingestre Riparian Alluvial Lowlands
10	Hixon Settled Farmlands
11	Ingestre Park Sandstone Estatelands
12	Stafford Sandstone Estatelands
13	Hopton Sandstone Estatelands
14	Stone and Whitgreave Settled Farmlands
15	Walton (urban)
16	Stone (urban)
17	Trent Valley Coalfield Farmlands
18	Yarnfield Settled Farmlands
19	Swynnerton Training Area Sandstone Hills and Heaths
20	Swynnerton Park Sandstone Hills and Heaths
21	Tittensor Chase Sandstone Hills and Heaths
22	Swynnerton Village Sandstone Hills and Heaths
23	Trentham Park
24	Swynnerton Old Park Sandstone Hills and Heaths
25	Meece Brook Valley Sandstone Hills and Heaths
26	Baldwin's Gate Sandstone Hills and Heaths
27	Upper Meece Brook Valley Alluvial Lowlands
28	Upper Meece Brook Valley Ancient Redlands
29	Meece Ancient Redlands
30	Whitmore Hall Valley Ancient Redlands
31	Baldwin's Gate Built Area
32	Maer Sandstone Hills and Heaths
33	Upper Lea Valley Ancient Redlands
34	Hey Sprink Ancient Redlands and Woodlands
35	Madeley Ancient Redlands
36	Old Madeley Manor Ancient Redlands
37	Onneley Sandstone Hills and Heaths
38	Madeley Ancient Clay Farmlands
39	Madeley Built Area
40	Madeley Manor Ancient Redlands
41	Madeley North Ancient Clay Farmlands
42	Madeley Valley
43	Checkley Farms and Woods
44	Betley Ancient Clay Farmlands
45	The Grange Lower Farms and Woods
46	Checkley Brook Lower Farms and Woods
47	Blakenhall Lower Farms and Woods
48	Border Fisheries Lower Farms and Woods
49	Wychwood Park
50	Hough Common
51	Shavington/Crewe Outer Fringe Lower Farms and Woods
52	Basford Brook Lower Farms and Woods
53	Crewe Urban Fringe
54	Crewe Hall
55	Crewe Station Built Area
56	Blithe Reservoir and Settled Farmland
57	Bromley Settled Farmland
58	Bromley Park Plateau Farmland
59	Hoar Cross Estate Woodlands
60	Pur Brook Farmland
61	Blithe Alluvial Farmland

See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP-XXX-YYY). — SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Community area boundary County boundary District/Borough boundary Landscape Character Area boundary 	<ul style="list-style-type: none"> Cannock Chase and Cank Wood Mease/Sence Lowlands Needwood and South Derbyshire Claylands Potteries and Churnet Valley Shropshire, Cheshire and Staffordshire Plain Trent Valley Washlands 	<ul style="list-style-type: none"> Large urban area Cannock Chase Area of Outstanding Natural Beauty (AONB)
--	--	--

Map Number: LV-00-101

Map Name: Route Wide Landscape Character Areas and National Character Areas SES2 and AP2 ES

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:250,000

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-600101-P03

Date: 11/01/19

High Speed Rail (West Midlands - Crewe)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

Landscape Character Areas (LV-02)

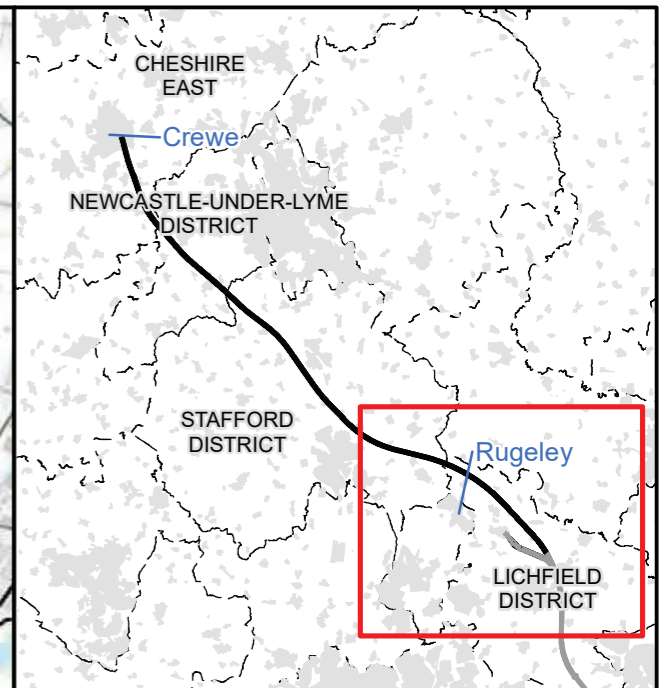
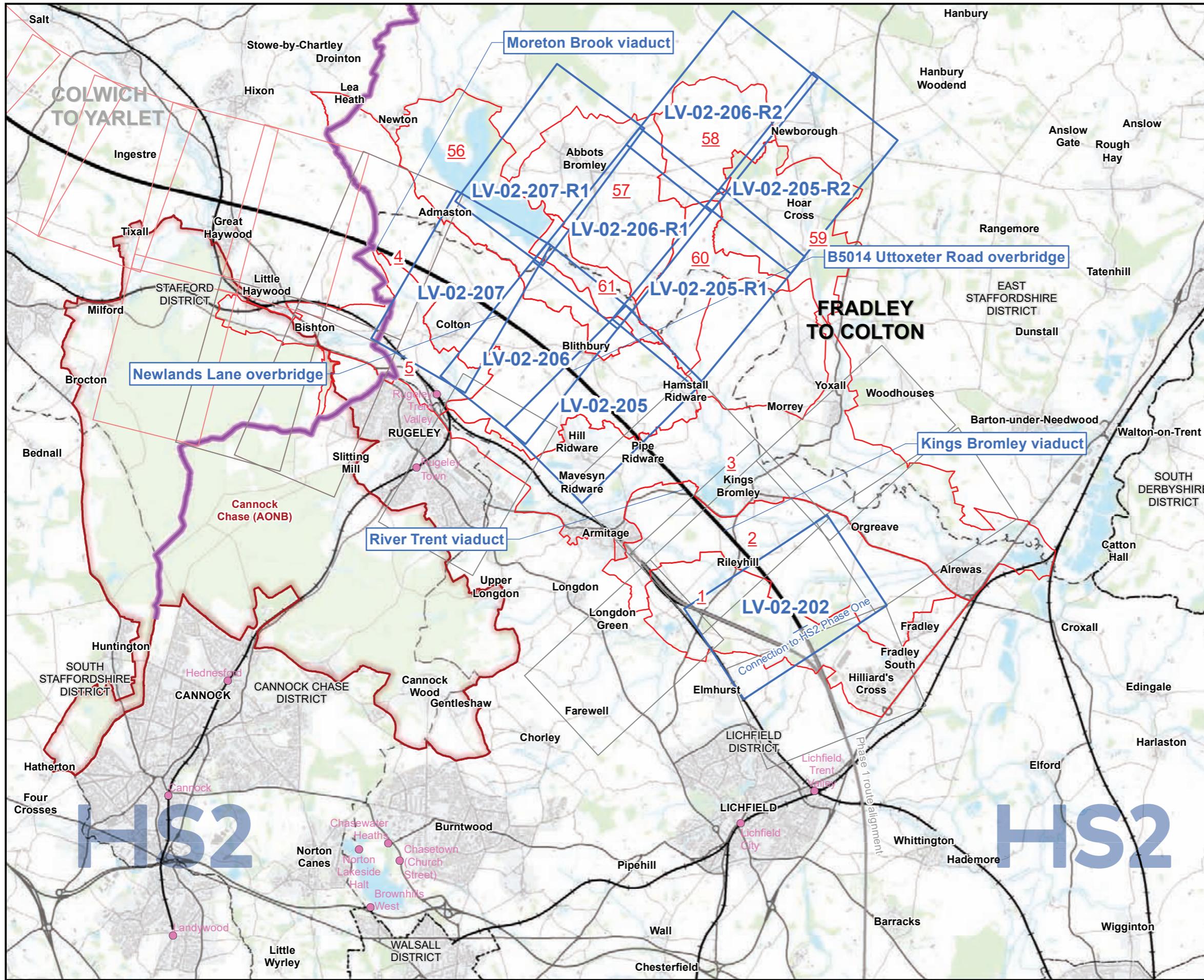
This page is left intentionally blank

High Speed Rail (West Midlands - Crewe)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

CA1 Fradley to Colton

LV-02 - Landscape Character Areas



Map Series Information:

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

- LCA No, LCA Name**
- 1, Fradley Settled Heathlands
 - 2, Kings Bromley Terrace Alluvial
 - 3, Trent Riparian Alluvial
 - 4, Colton and Stockwell Heath Settled Farmlands
 - 5, Colton Riparian Alluvial Lowlands
 - 56, Blithe Reservoir and Settled Farmland
 - 57, Bromley Settled Farmland
 - 58, Bromley Park Plateau Farmland
 - 59, Hoar Cross Estate Woodlands
 - 60, Pur Brook Farmland
 - 61, Blithe Alluvial Farmland

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

- Landscape Character Area boundary
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- Landscape Character Area Number
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-02-INDEX-CA1
Map Name	Index Map of: Landscape Character Areas SES2 and AP2 ES
Community Area 1:	Fradley to Colton

HS2 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: 1:90,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-602001-P03 Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-202

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-602102-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-205

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017 Doc Number: 2PT02-ARP-EV-MAP-000-6021105-P03 Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-205-R1

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

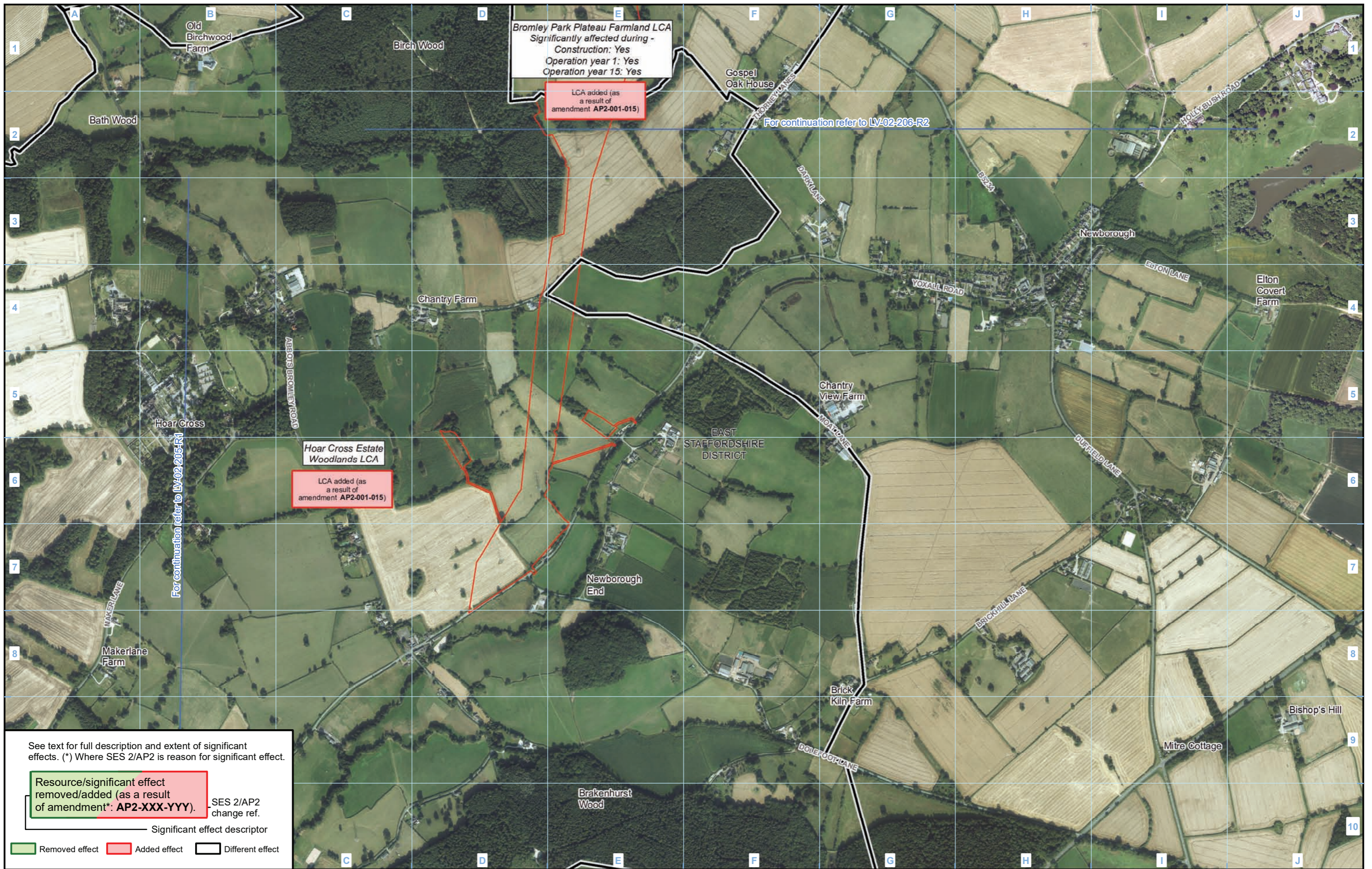
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-602305-P03

Date: 17/01/19



Bromley Park Plateau Farmland LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

LCA added (as a result of amendment AP2-001-015)

Hoar Cross Estate Woodlands LCA

LCA added (as a result of amendment AP2-001-015)

See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-205-R2

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-602405-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

- 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)
 - Cannock Chase Area of Outstanding Natural Beauty (AONB)
 - Engineering earthworks:
 - Embankment
 - Cutting
 - Non engineering earthworks:
 - Embankment
 - Cutting

Colton and Stockwell Heath Settled Farmlands LCA
 Significantly affected during -
 Construction: Yes
 Operation year 1: Yes
 Operation year 15: Yes

Different effect in operation
 (as a result of amendment AP2-001-015)

Blithe Reservoir and Settled Farmland LCA
 LCA added (as a result of amendment AP2-001-015)

Blithe Alluvial Farmland LCA
 Significantly affected during -
 Construction: No
 Operation year 1: Yes
 Operation year 15: Yes

LCA added (as a result of amendment AP2-001-015)

Map Number LV-02-206

Map Name Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686.
 Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018
 OS 100049190
 © Airbus Defence and Space Ltd, Imagery rights 2017
 Doc Number: 2PT02-ARP-EV-MAP-000-602106-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

- 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)
 - Cannock Chase Area of Outstanding Natural Beauty (AONB)

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

Map Number: LV-02-206-R1

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-602306-P03

Date: 17/01/19



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)
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

Map Number	LV-02-206-R2
Map Name	Landscape Character Areas SES2 and AP2 ES
Community Area 1:	Fradley to Colton

	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: 1:10,000
© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017	
Doc Number: 2PT02-ARP-EV-MAP-000-602406-P03	Date: 17/01/19

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018
OS 100049190
© Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-602406-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-207

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-6021107-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-207-R1

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

0 100 200 300 400 Metres

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-602307-P03 Date: 17/01/19

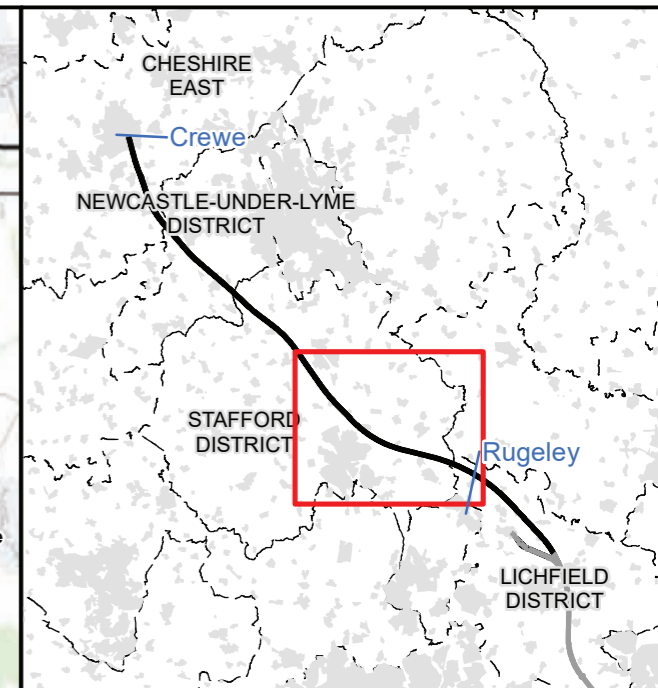
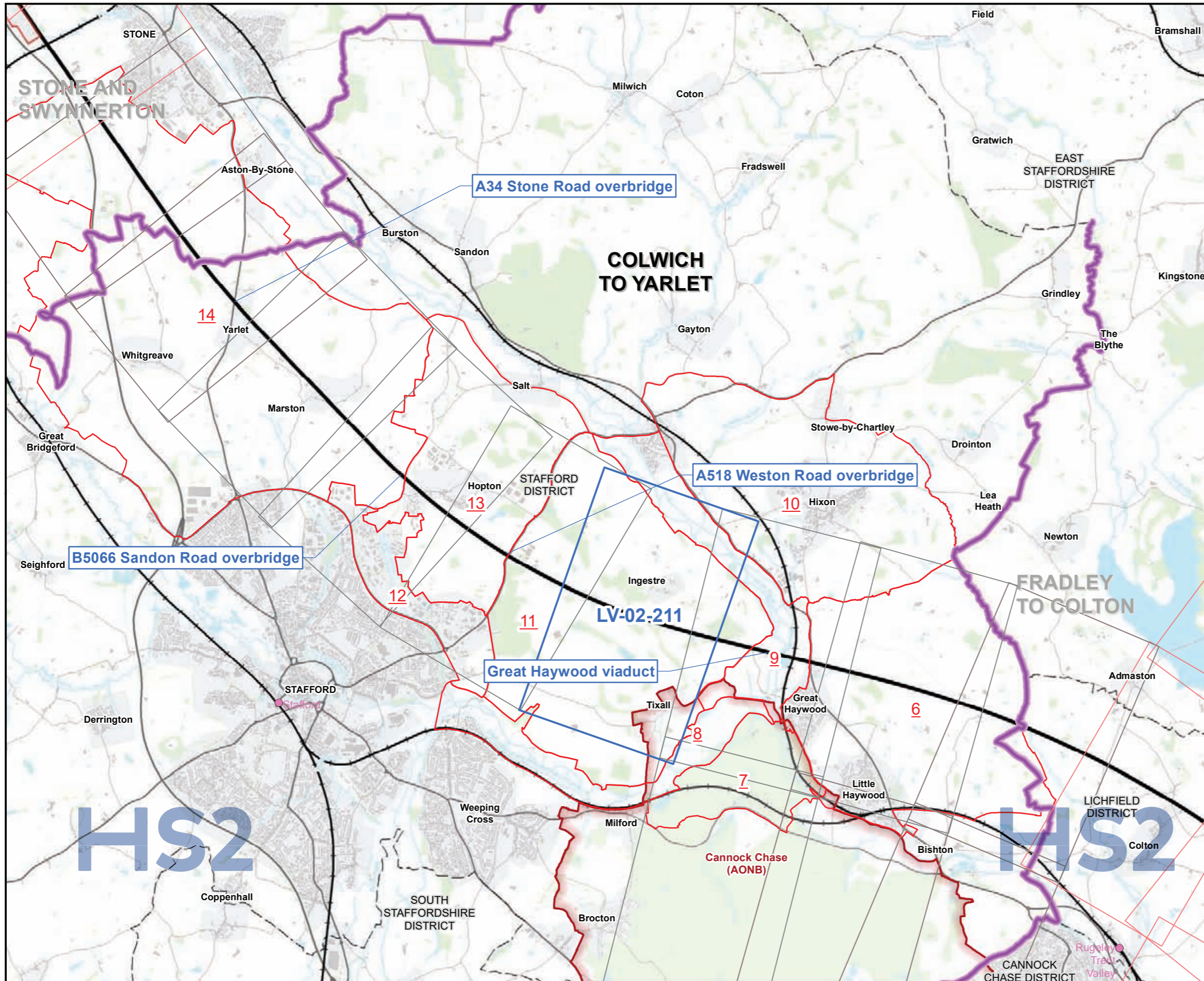
This page is left intentionally blank

High Speed Rail (West Midlands - Crewe)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

CA2 Colwich to Yarlet

LV-02 - Landscape Character Areas



Map Series Information:

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

LCA No, LCA Name

- 6. Great Haywood Settled Plateau Farmland Slopes
- 7. Shugborough Designed Parkland
- 8. Shugborough Riparian Alluvial Lowlands
- 9. Ingestre Riparian Alluvial Lowlands
- 10. Hixon Settled Farmlands
- 11. Ingestre Park Sandstone Estatelands
- 12. Stafford Sandstone Estatelands
- 13. Hopton Sandstone Estatelands
- 14. Stone and Whitgreave Settled Farmlands

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Landscape Character Area boundary
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- Landscape Character Area Number
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-02-INDEX-CA2
Map Name	Index Map of: Landscape Character Areas SES2 and AP2 ES
Community Area 2: Colwich to Yarlet	

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-602002-P03

Scale at A3: 1:60,000

Metres

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
Significant effect descriptor	
Removed effect	Added effect
Different effect	

Legend

Route in tunnel	Landscape character areas (LCA)	Engineering earthworks: Embankment
Route on surface	Cannock Chase Area of Outstanding Natural Beauty (AONB)	Engineering earthworks: Cutting
Depot, station, headhouse or portal building		Non engineering earthworks: Embankment
Land potentially required during construction		Non engineering earthworks: Cutting
Community area boundary		
County boundary		
District/Borough boundary		

Map Number	LV-02-211
Map Name	Landscape Character Areas SES2 and AP2 ES
Community Area 2:	Colwich to Yarlet

HS2

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018
OS 100049190
© Airbus Defence and Space Ltd, Imagery rights 2017
Doc Number: 2PT02-ARP-EV-MAP-000-602111-P03

Date: 17/01/19

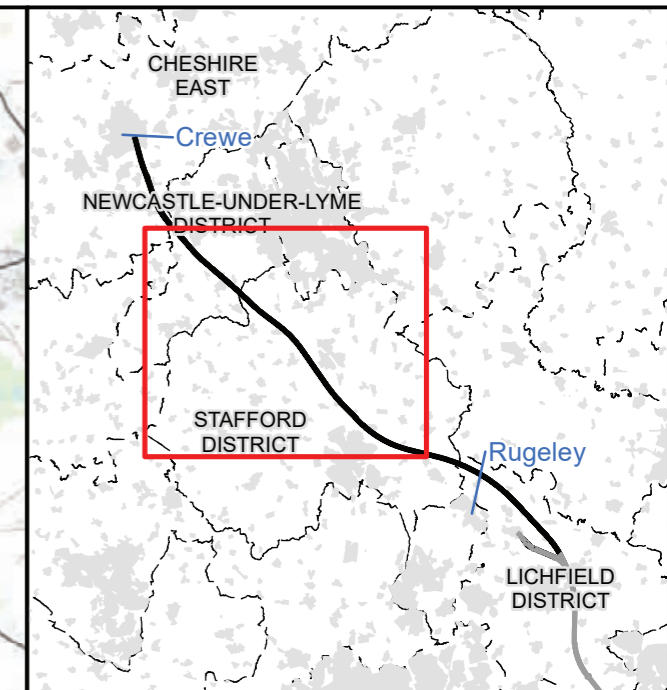
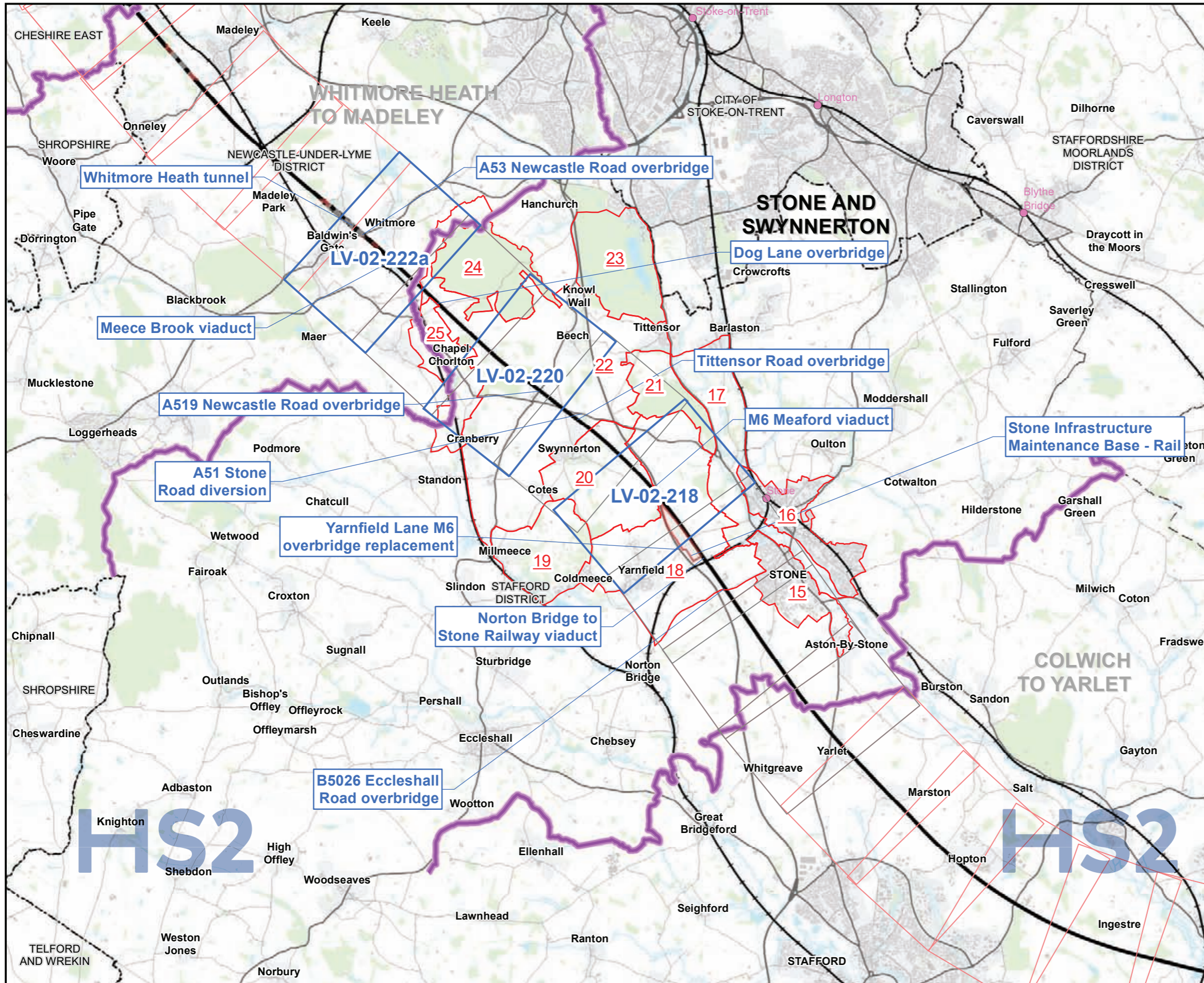
This page is left intentionally blank

High Speed Rail (West Midlands - Crewe)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

CA3 Stone and Sywnnerton

LV-02 - Landscape Character Areas



Map Series Information:

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

- LCA No, LCA Name**
- 15, Walton (urban)
 - 16, Stone (urban)
 - 17, Trent Valley Coalfield Farmlands
 - 18, Yarnfield Settled Farmlands
 - 19, Swynnerton Training Area Sandstone Hills and
 - 20, Swynnerton Park Sandstone Hills and Heaths
 - 21, Tittensor Chase Sandstone Hills and Heaths
 - 22, Swynnerton Village Sandstone Hills and Heaths
 - 23, Trentham Park
 - 24, Swynnerton Old Park Sandstone Hills and Heaths
 - 25, Meece Brook Valley Sandstone Hills and Heaths

Main Map Legend

Route on surface	Landscape Character Area boundary	Map sheets included in this community area with amendment
Route in tunnel	Cannock Chase Area of Outstanding Natural Beauty (AONB)	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Landscape Character Area Number	Map sheets not included in this community area
Community area boundary		
Existing railway station		
County boundary		
District/Borough boundary		

Map Number	LV-02-INDEX-CA3
Map Name	Index Map of: Landscape Character Areas SES2 and AP2 ES
Community Area 3: Stone and Swynnerton	

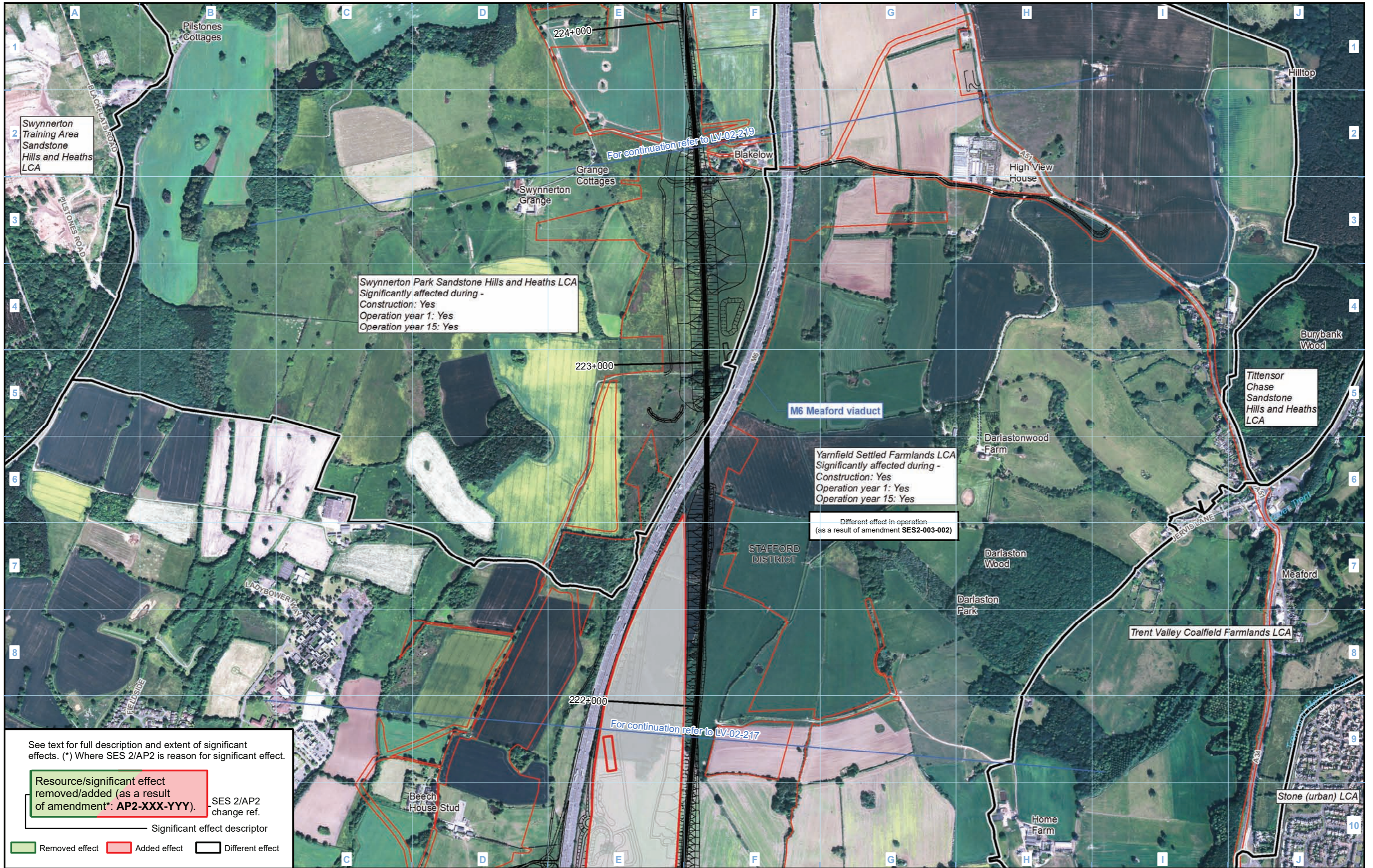
HS2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:90,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-602003-P03 **Date:** 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

- 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)
 - Cannock Chase Area of Outstanding Natural Beauty (AONB)

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

Map Number: LV-02-218

Map Name: Landscape Character Areas SES2 and AP2 ES

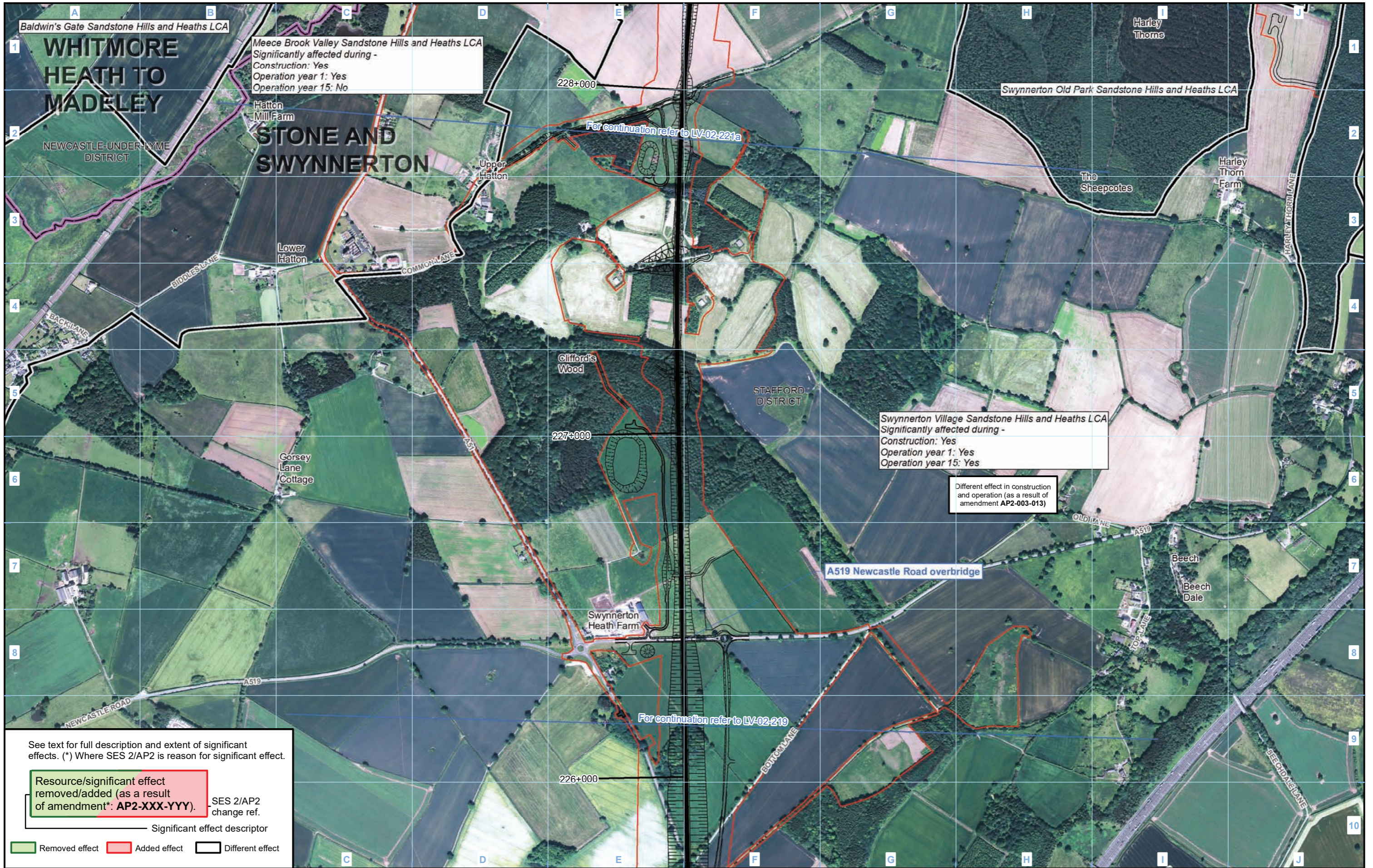
Community Area 3: Stone and Swynnerton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017 Doc Number: 2PT02-ARP-EV-MAP-000-602118-P03 Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

— Significant effect descriptor

Removed effect
 Added effect
 Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-220

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 3: Stone and Swynnerton

HS2

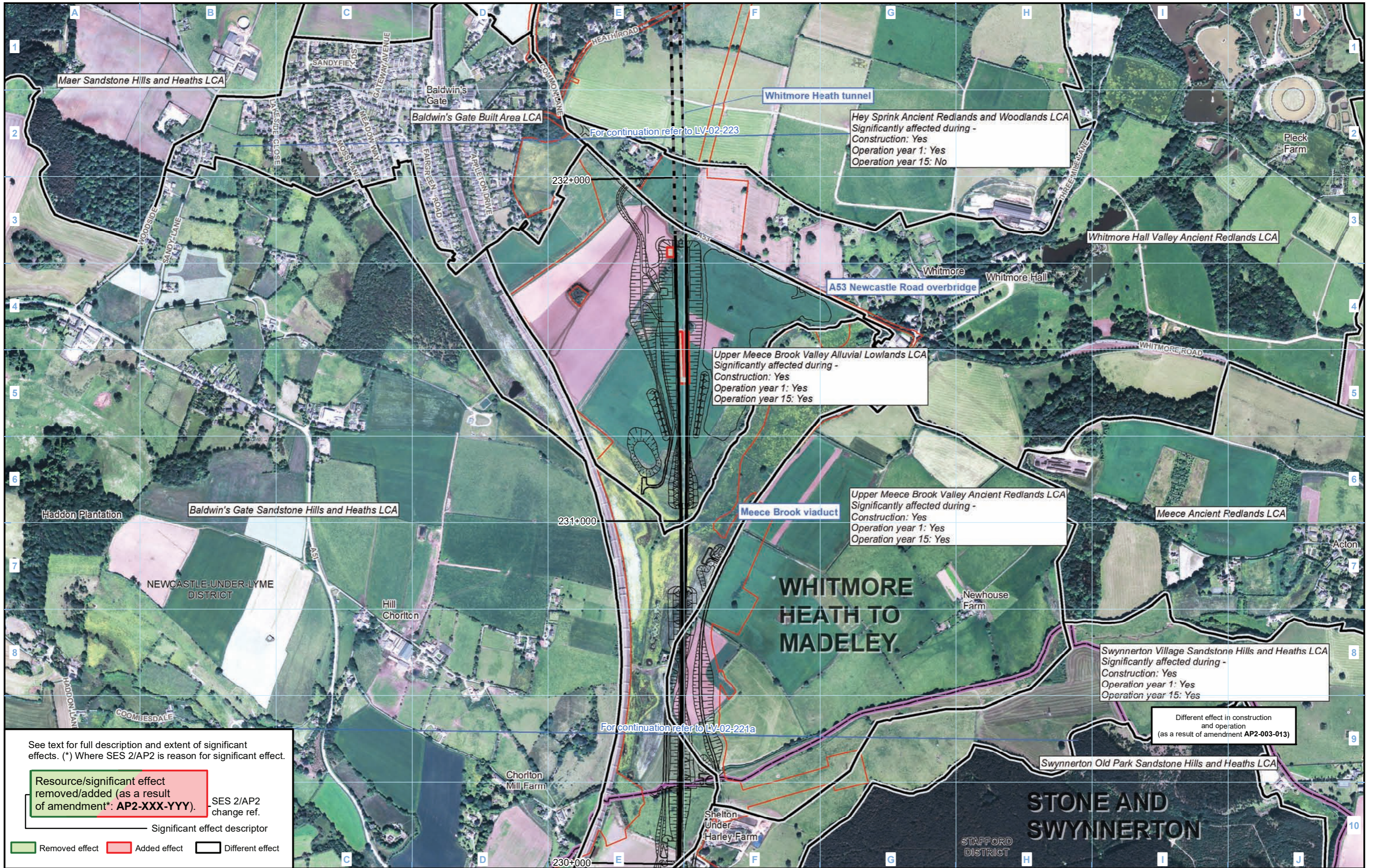
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017

Doc Number: 2PT02-ARP-EV-MAP-000-602120-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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)
- Cannock Chase Area of Outstanding Natural Beauty (AONB)

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

Map Number: LV-02-222a

Map Name: Landscape Character Areas SES2 and AP2 ES

Community Area 3: Stone and Swynnerton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190 © Airbus Defence and Space Ltd, Imagery rights 2017 Doc Number: 2PT02-ARP-EV-MAP-000-602122-P03 Date: 17/01/19

This page is left intentionally blank

High Speed Rail (West Midlands - Crewe)

**Supplementary Environmental Statement 2 and
Additional Provision 2 Environmental Statement**

Landscape and visual (LV-07, LV-08)

This page is left intentionally blank

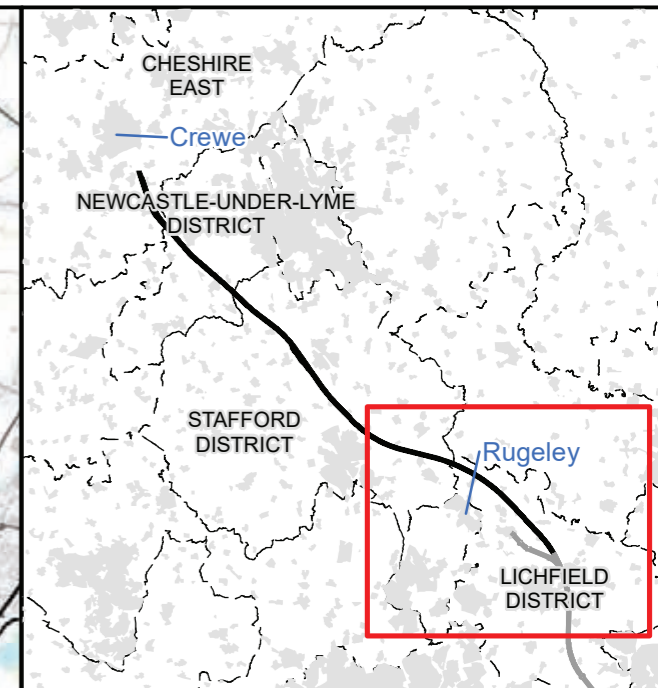
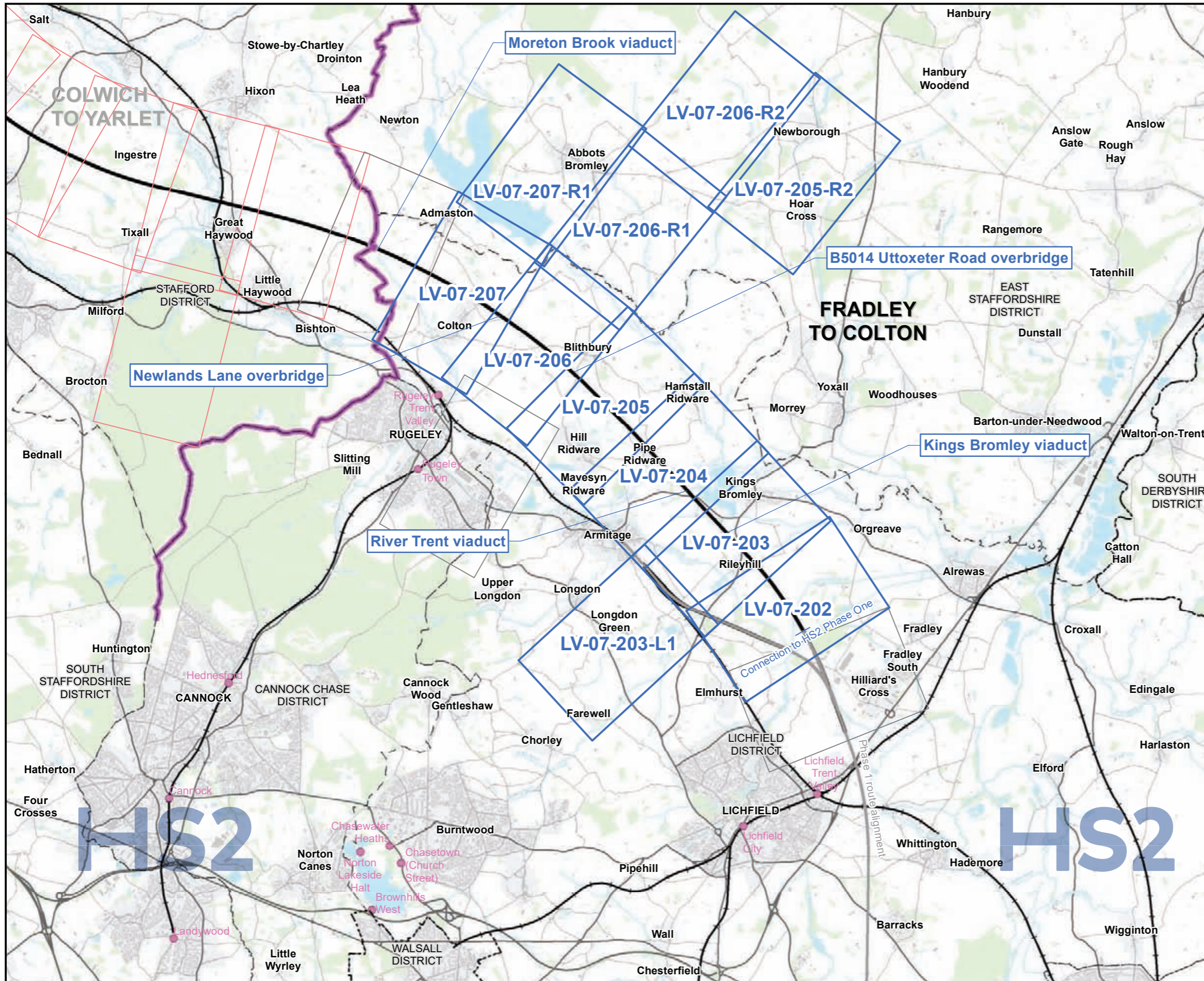
High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

CA1 Fradley to Colton

LV-07 - Construction Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints

LV-08 - Operational Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints



Map Series Information:

Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-07-INDEX-CA1
Map Name	Index Map of: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 1: Fradley to Colton

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.

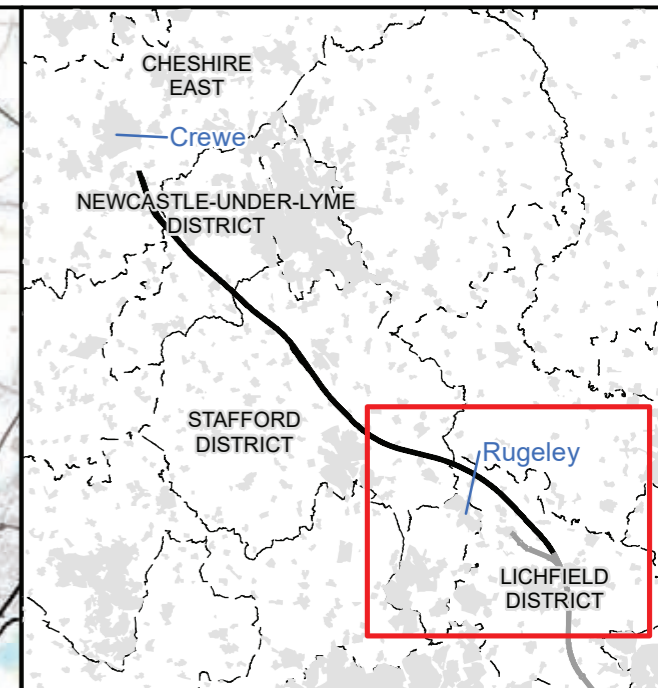
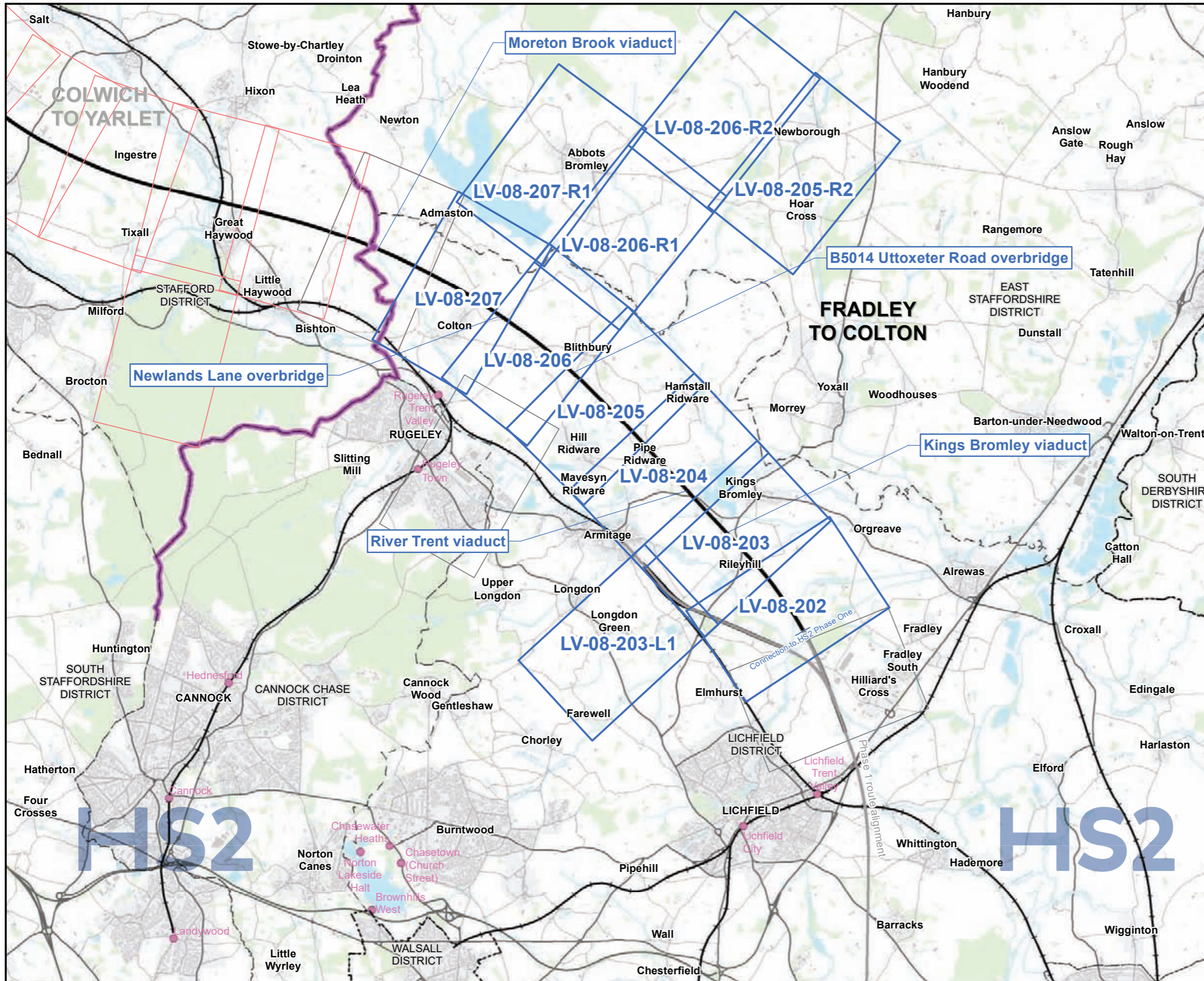
© Crown copyright and database rights 2018
OS 100049190

Scale at A3: 1:90,000

Metres

Doc Number: 2PT02-ARP-EV-MAP-000-607001-P03

Date: 17/01/19



Map Series Information:

Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-08-INDEX-CA1
Map Name	Index Map of: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 1: Fradley to Colton

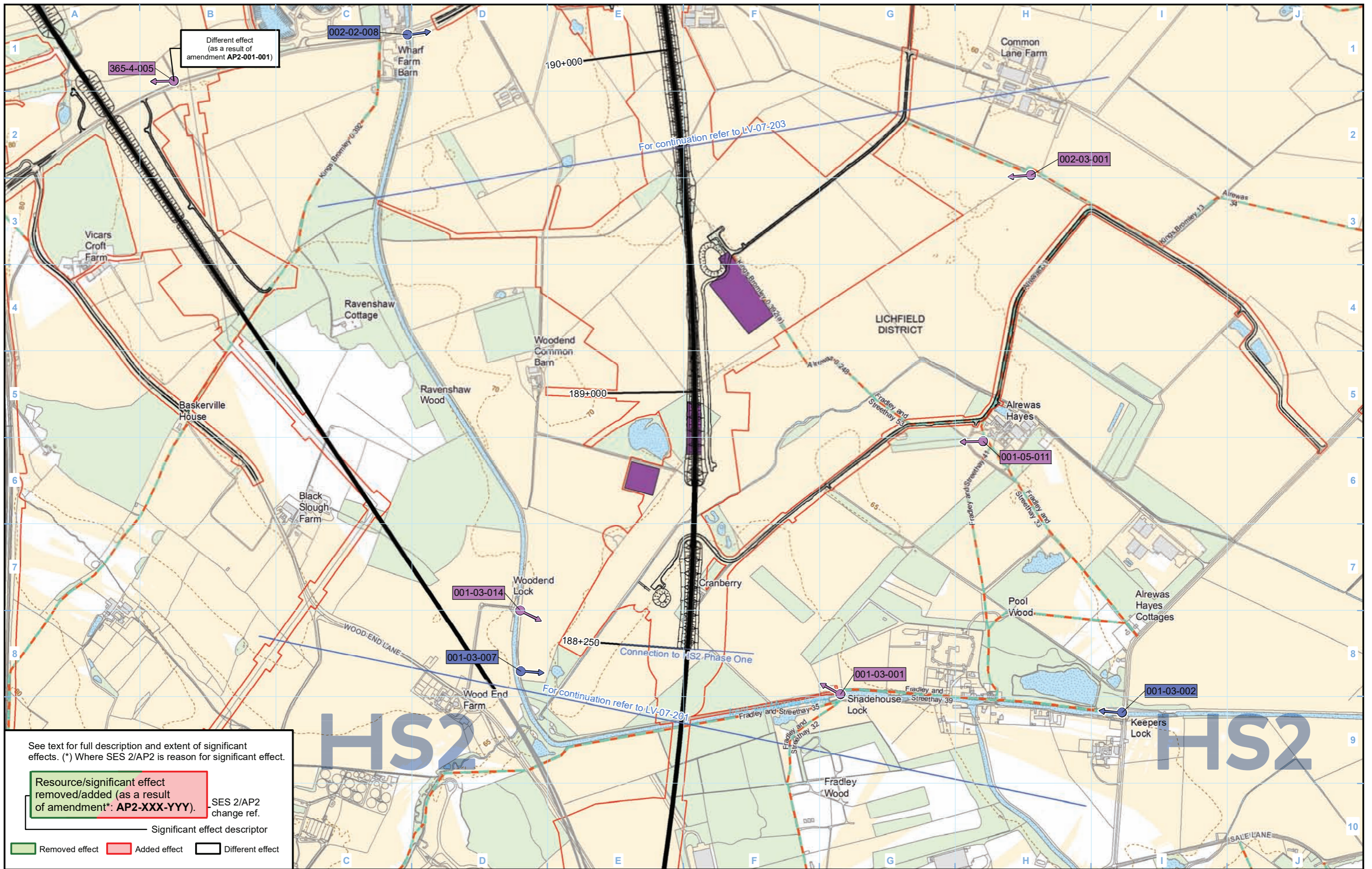
HS2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:90,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608001-P03 **Date:** 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

Route in tunnel	District/Borough boundary	ZTV construction	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	Public Rights of Way (PRoW)		Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	5m contours	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Land potentially required during construction	Water body	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
Community area boundary	Existing woodland and tree belts	001-1-001 Photomontage viewpoint number		Embankment
County boundary	Construction compounds			Cutting
	Cannock Chase Area of Outstanding Natural Beauty (AONB)			

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-202

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

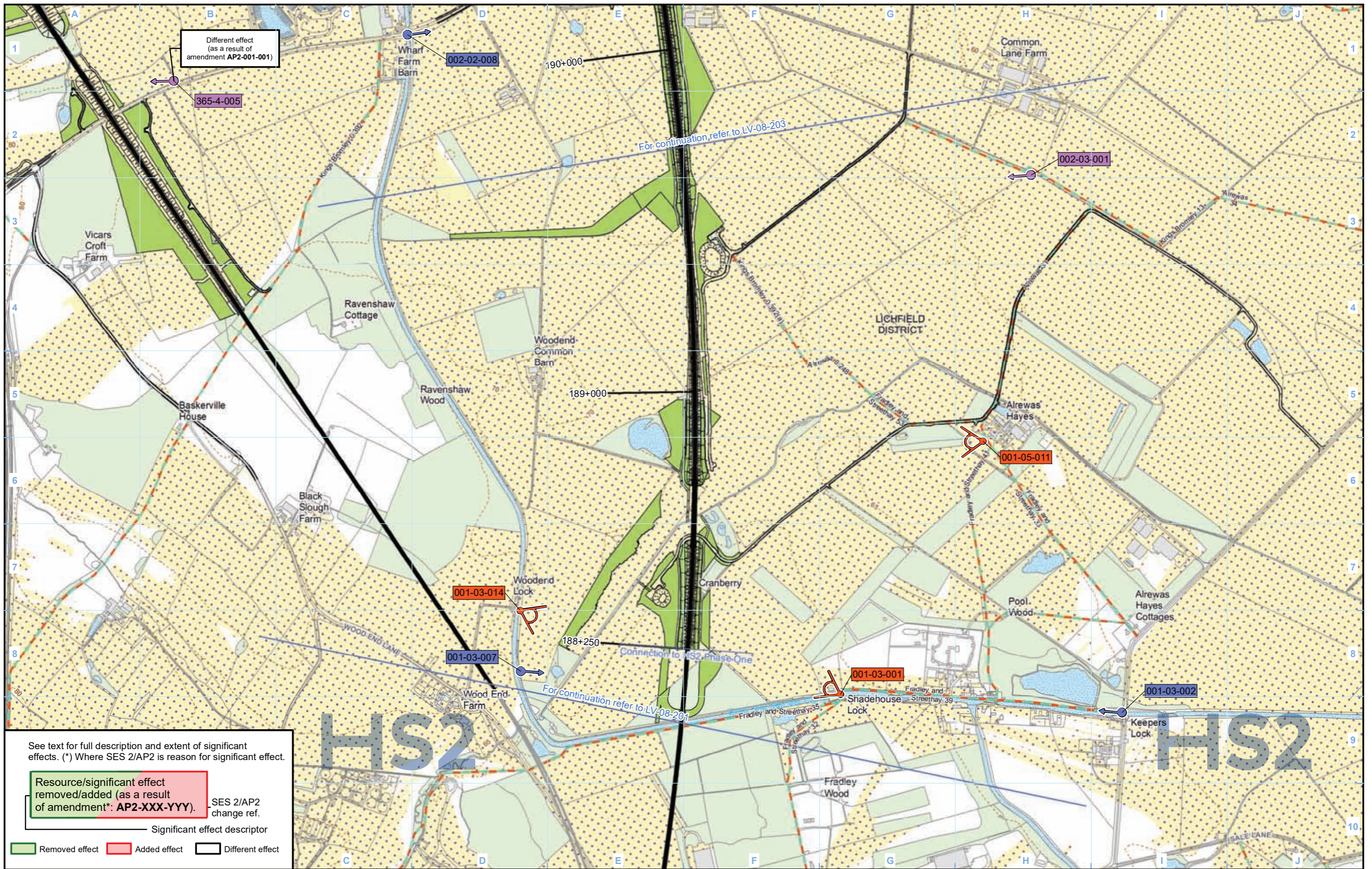
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607102-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- Non significantly affected viewpoint number
- Significantly affected viewpoint number
- Photomontage viewpoint number
- Photomontage location
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-202

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

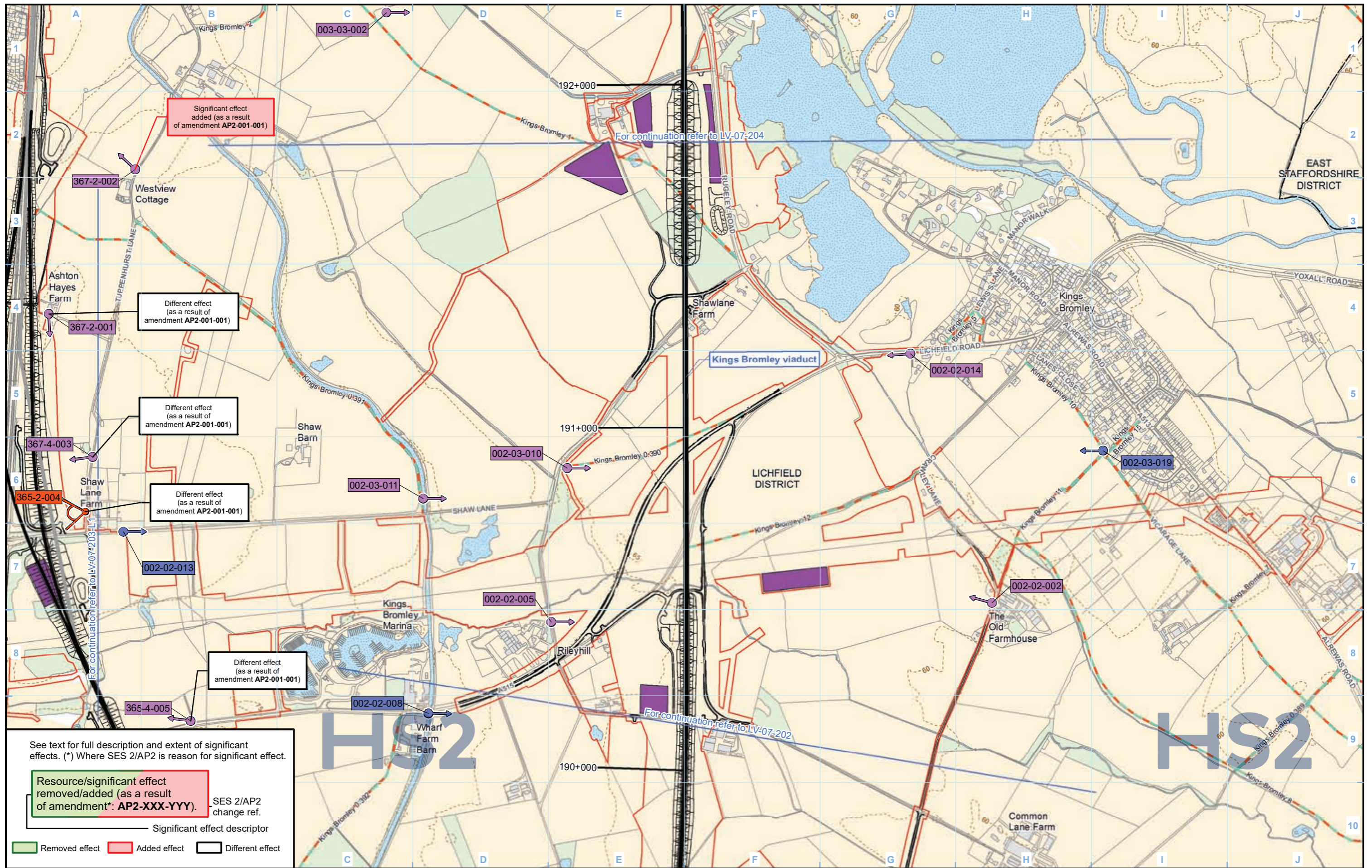
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608102-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-203

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

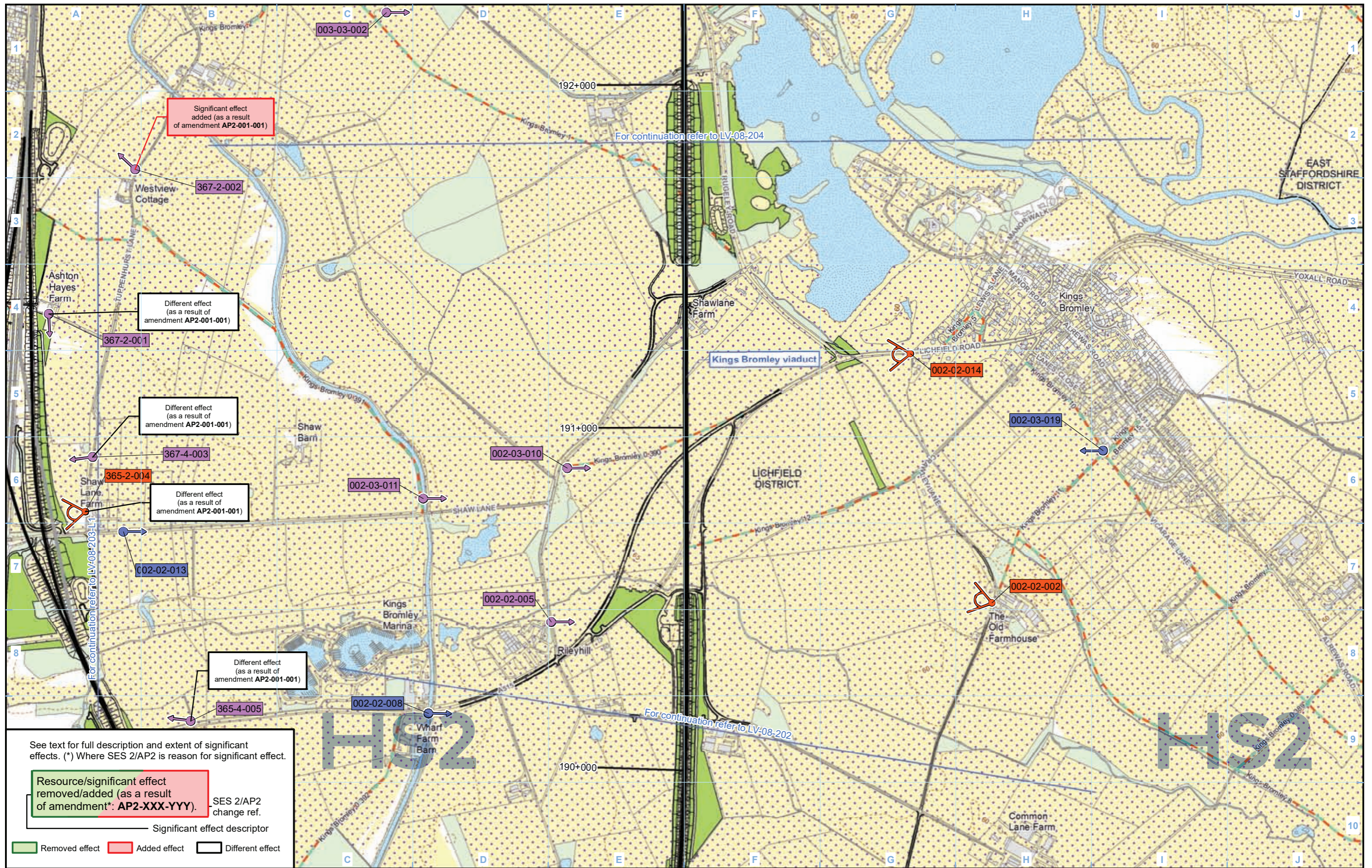
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607103-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- 001-1-001 Photomontage location
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-203

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

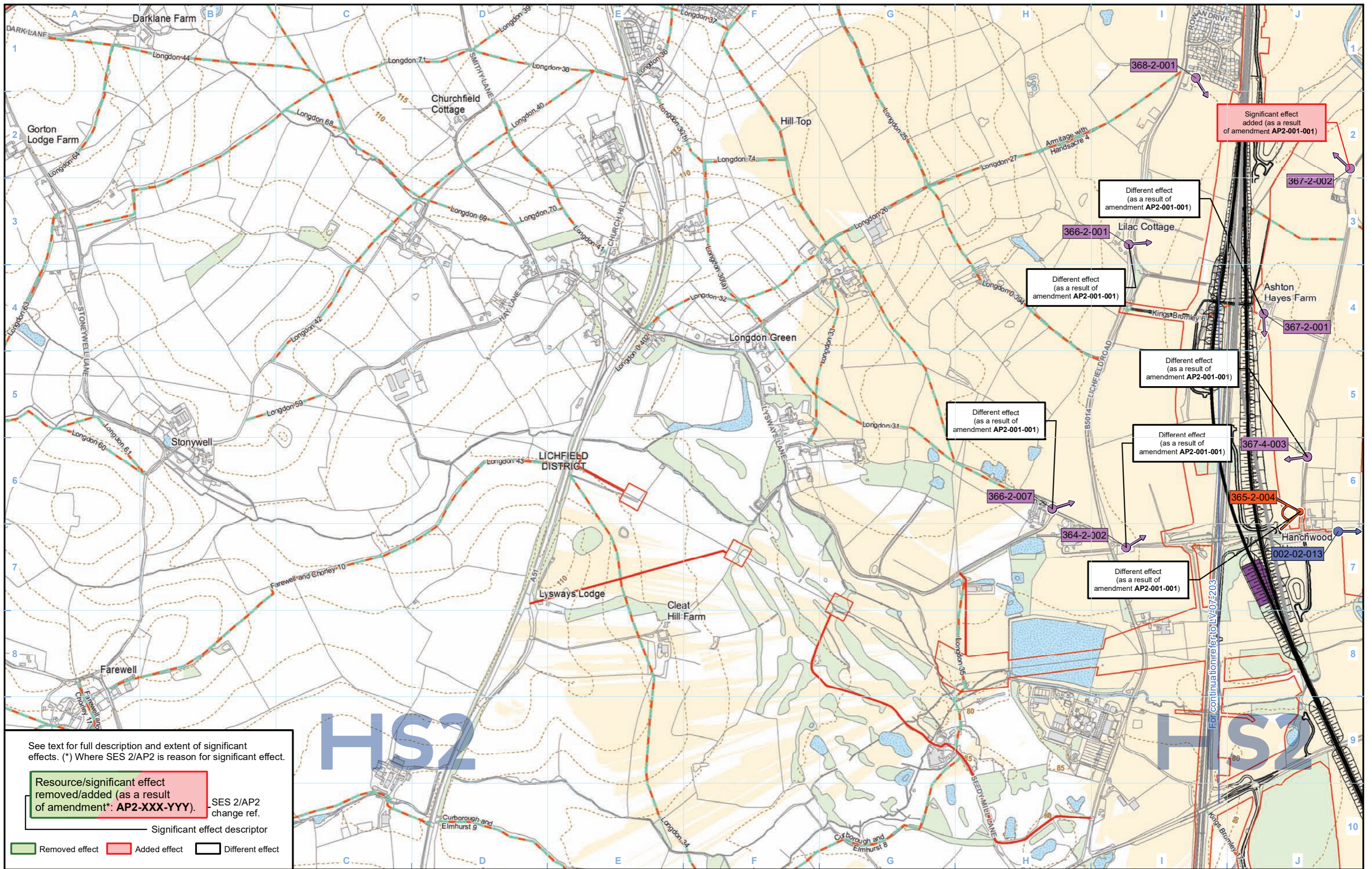
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608103-P03

Date: 17/01/19

Scale at A3: 1:10,000

0 100 200 300 400 Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-203-L1

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

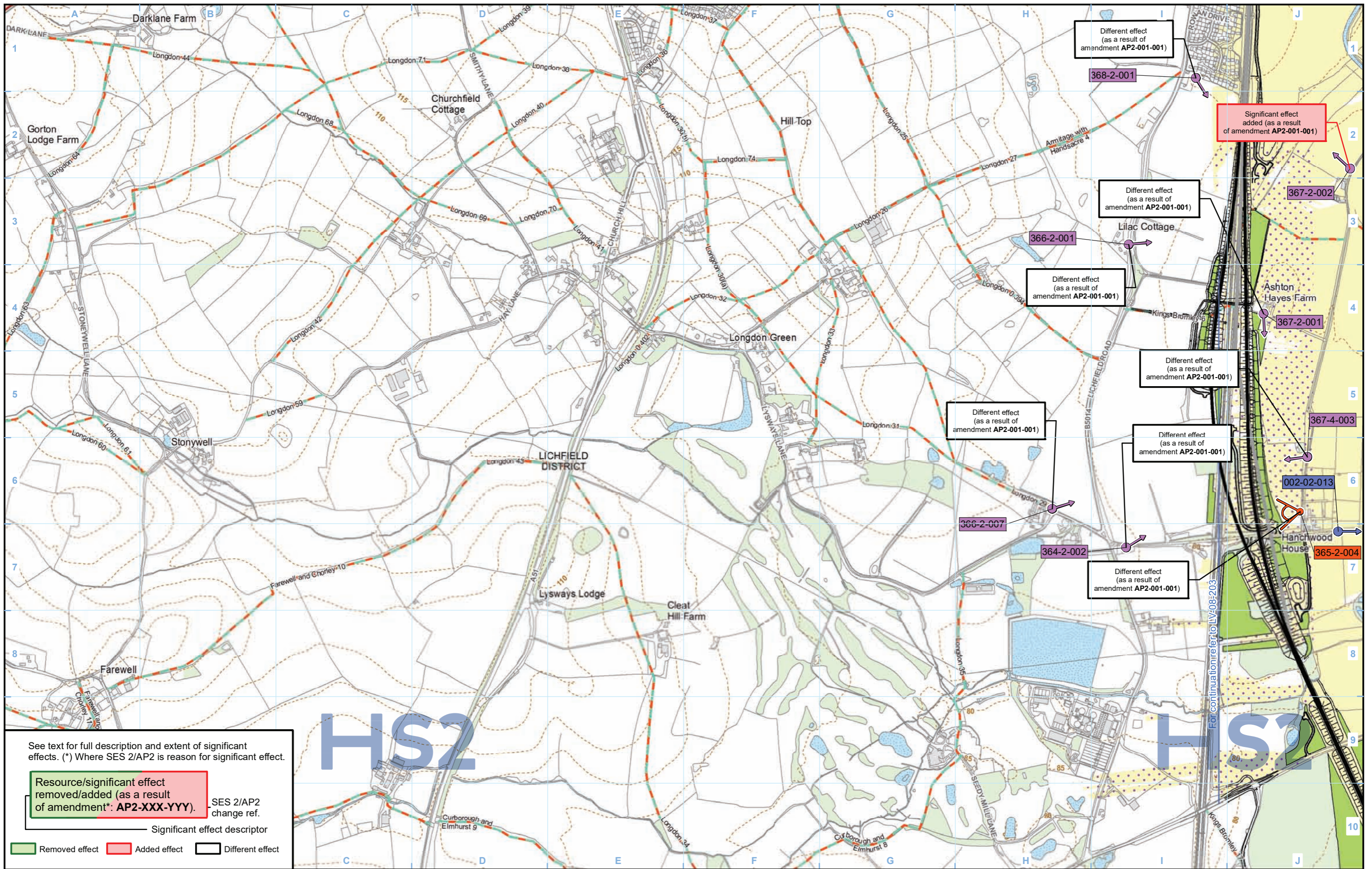
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607203-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- 001-1-001 Photomontage location
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-203-L1

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

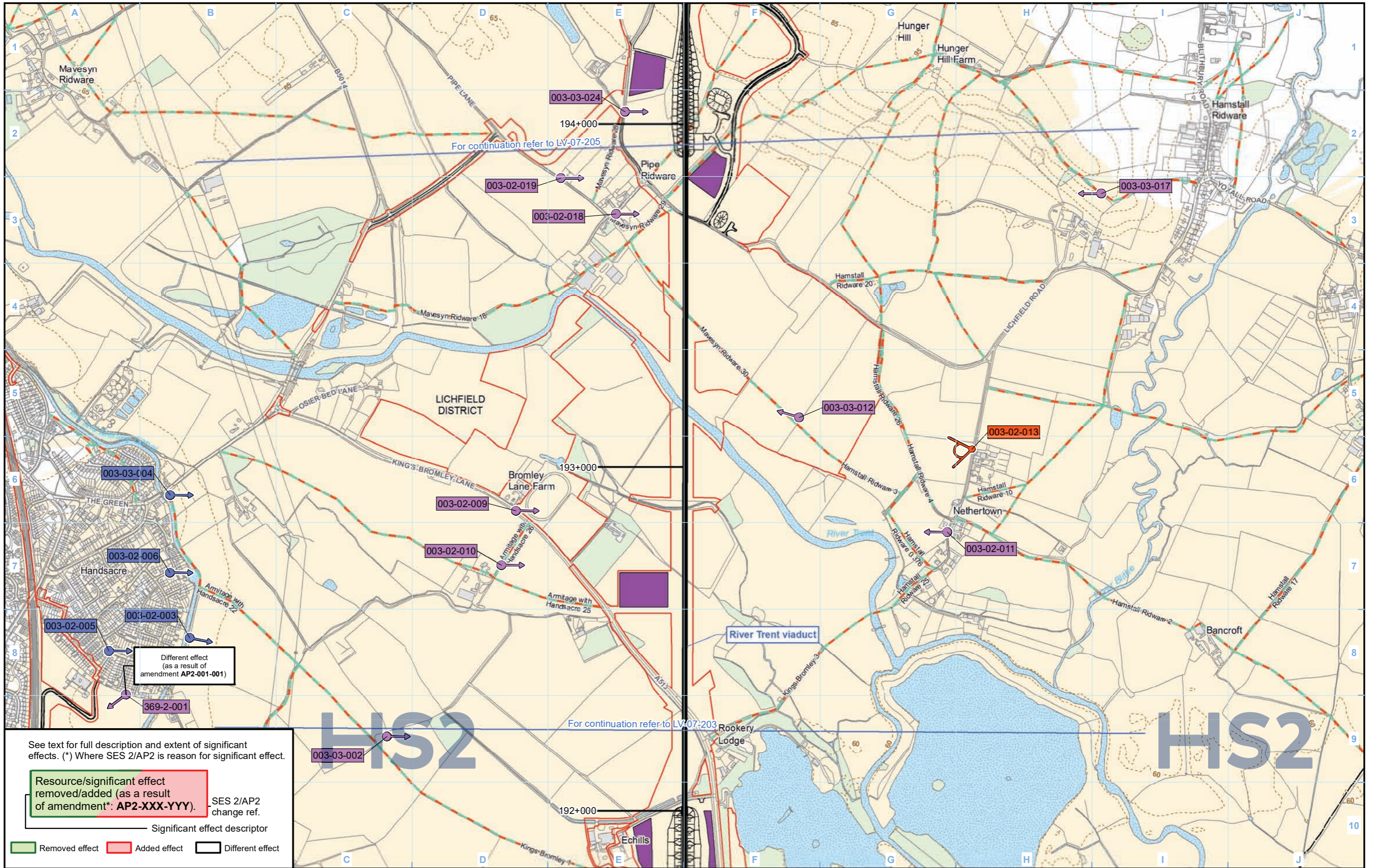
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608203-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
— Significant effect descriptor	
 Removed effect	 Added effect
 Different effect	

Legend

Route in tunnel	District/Borough boundary	ZTV construction	Non significantly affected viewpoint	Engineering earthworks: Embankment
Route on surface	Public Rights of Way (PRoW)	001-1-001 Non significantly affected viewpoint number	Significantly affected viewpoint	Engineering earthworks: Cutting
Depot, station, headhouse or portal building	5m contours	001-1-001 Significantly affected viewpoint number	Photomontage location	Non engineering earthworks: Embankment
Land potentially required during construction	Water body	001-1-001 Photomontage viewpoint number		Non engineering earthworks: Cutting
Community area boundary	Existing woodland and tree belts			
County boundary	Construction compounds			
	Cannock Chase Area of Outstanding Natural Beauty (AONB)			

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-204
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 1: Fradley to Colton	

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.

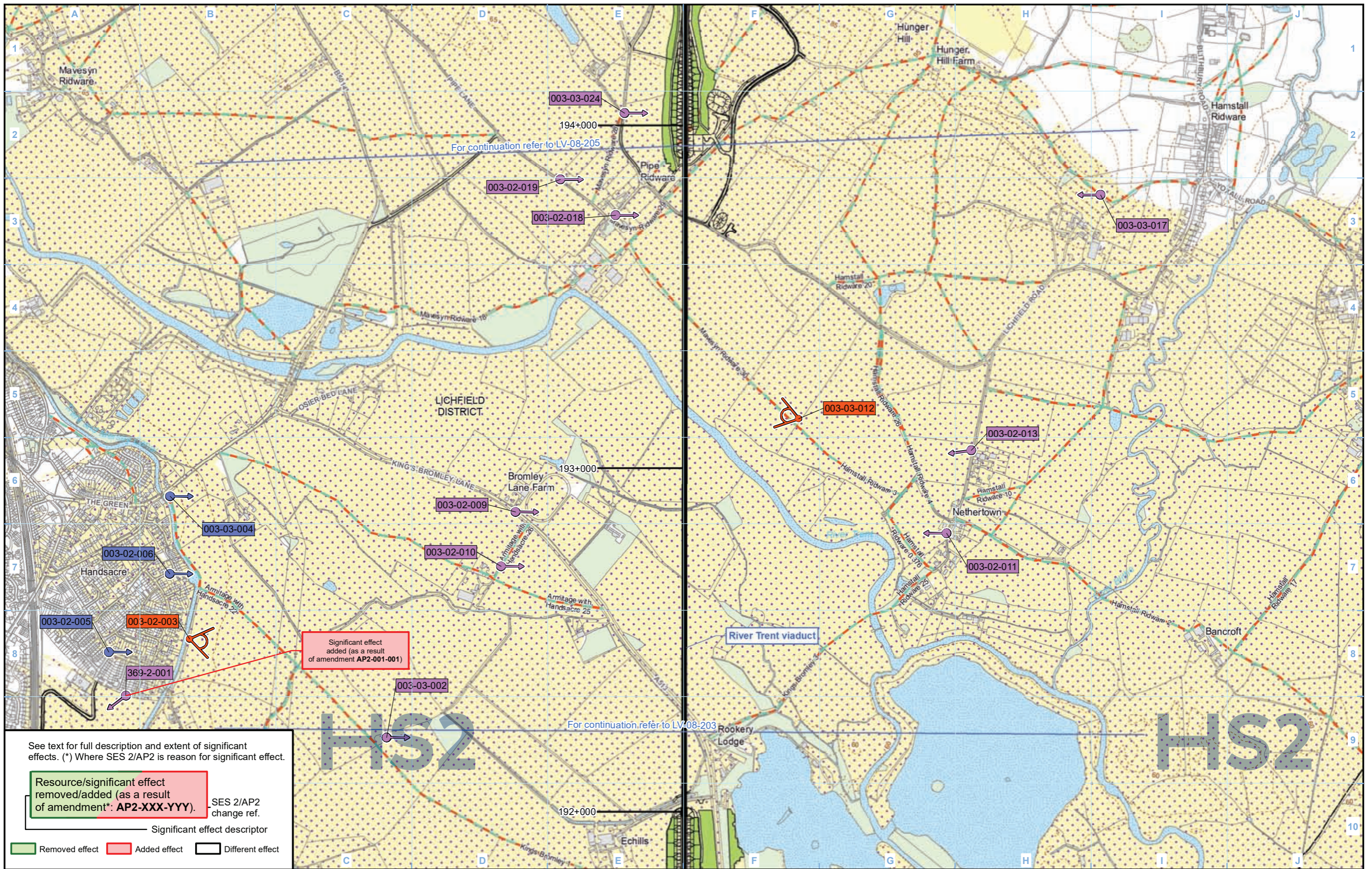
© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607104-P03

Scale at A3: 1:10,000

Metres

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		Embankment
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-204

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

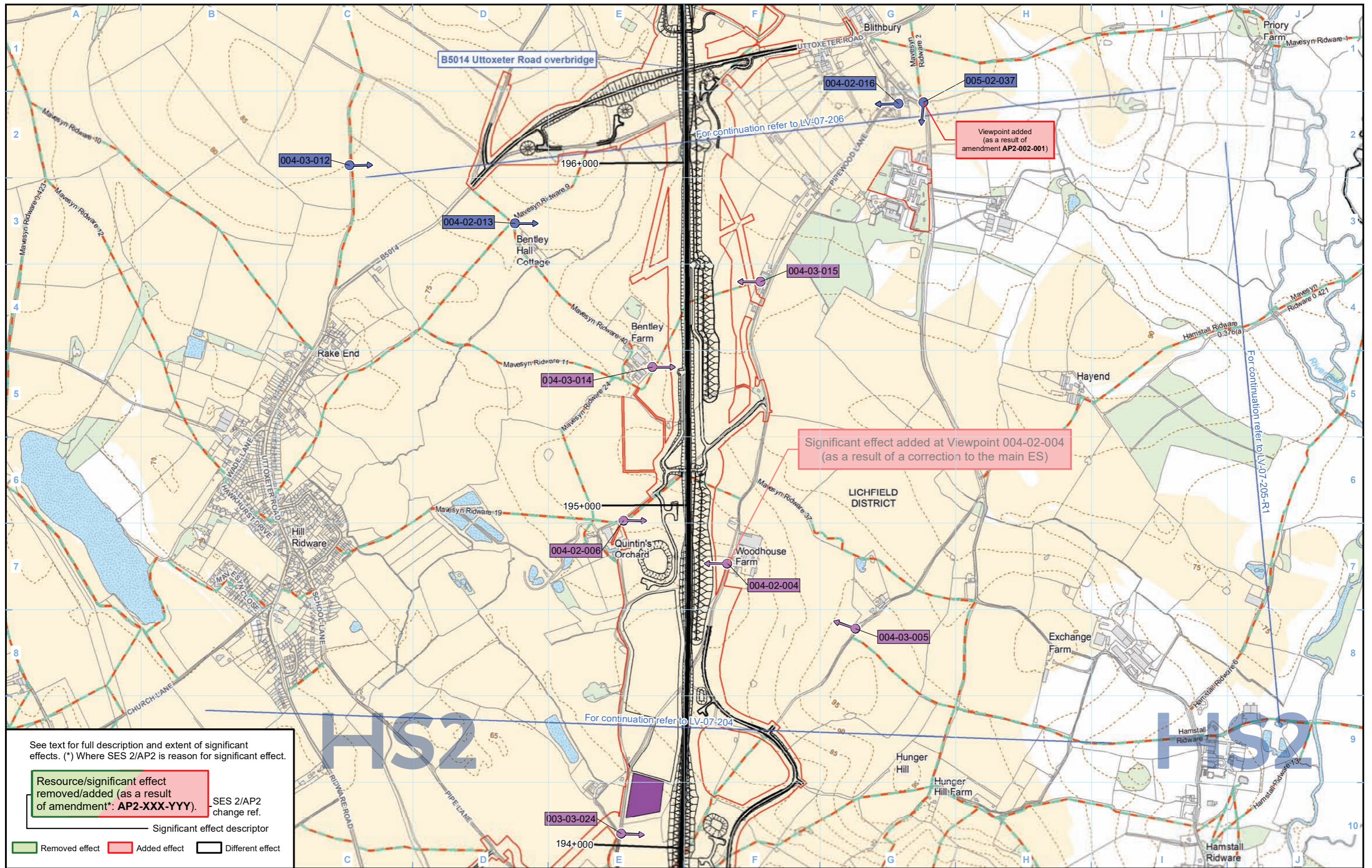
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608104-P03

Scale at A3: 1:10,000

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	ZTV construction
	001-1-001 Non significantly affected viewpoint number
	001-1-001 Significantly affected viewpoint number
	001-1-001 Photomontage viewpoint number
	Non significantly affected viewpoint
	Significantly affected viewpoint
	Photomontage location
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number LV-07-205

Map Name Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

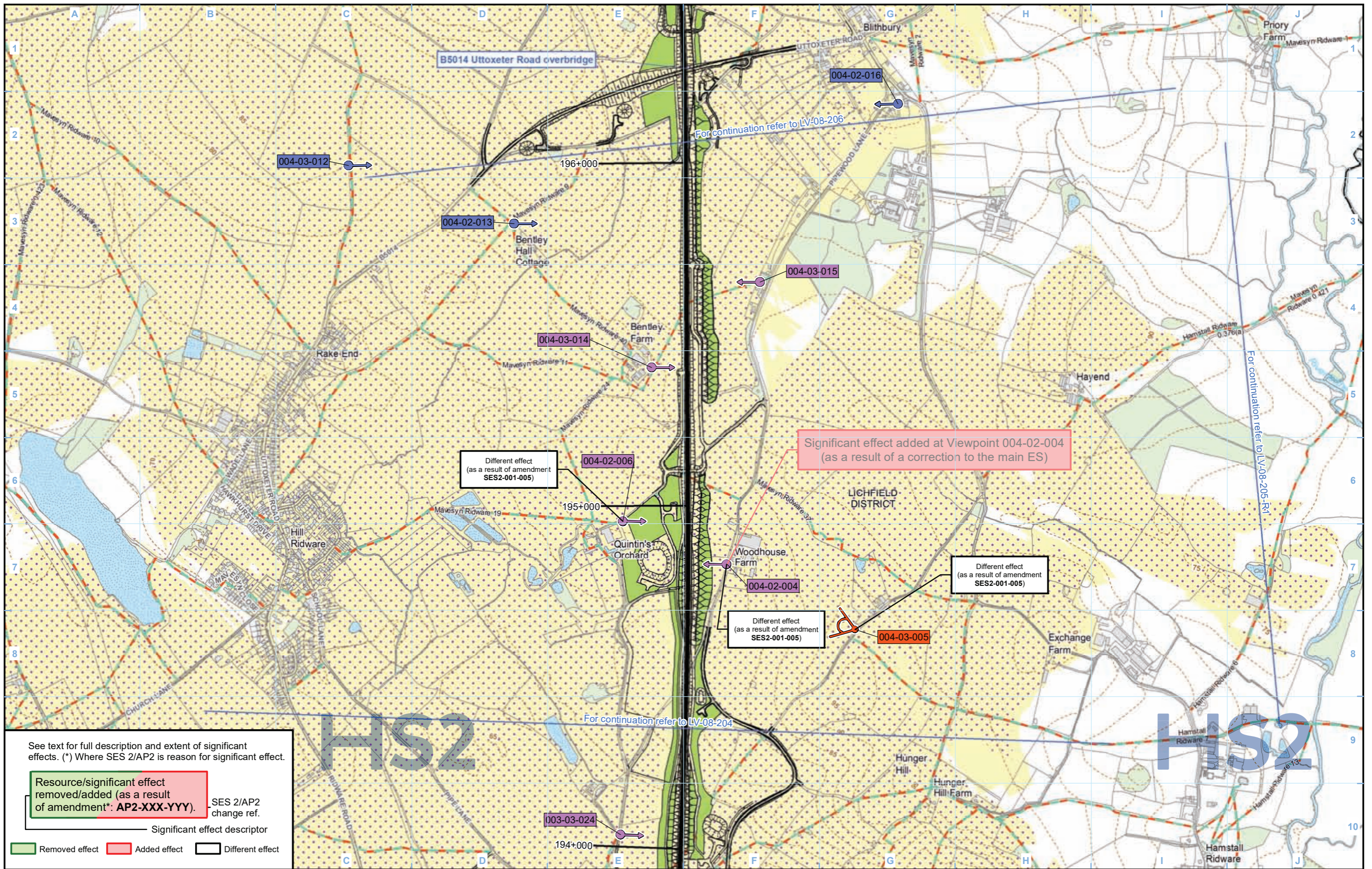
Scale at A3: 1:10,000

Metres

Doc Number: 2PT02-ARP-EV-MAP-000-607105-P03

Date: 17/01/19

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.



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend	
	Public Rights of Way (PRoW)
	5m contours
	Water body
	Existing woodland and tree belts
	Proposed tree planting
	Cannock Chase Area of Outstanding Natural Beauty (AONB)
	Non significantly affected viewpoint number
	Significantly affected viewpoint number
	Photomontage viewpoint number
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-205
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 1: Fradley to Colton

HS2

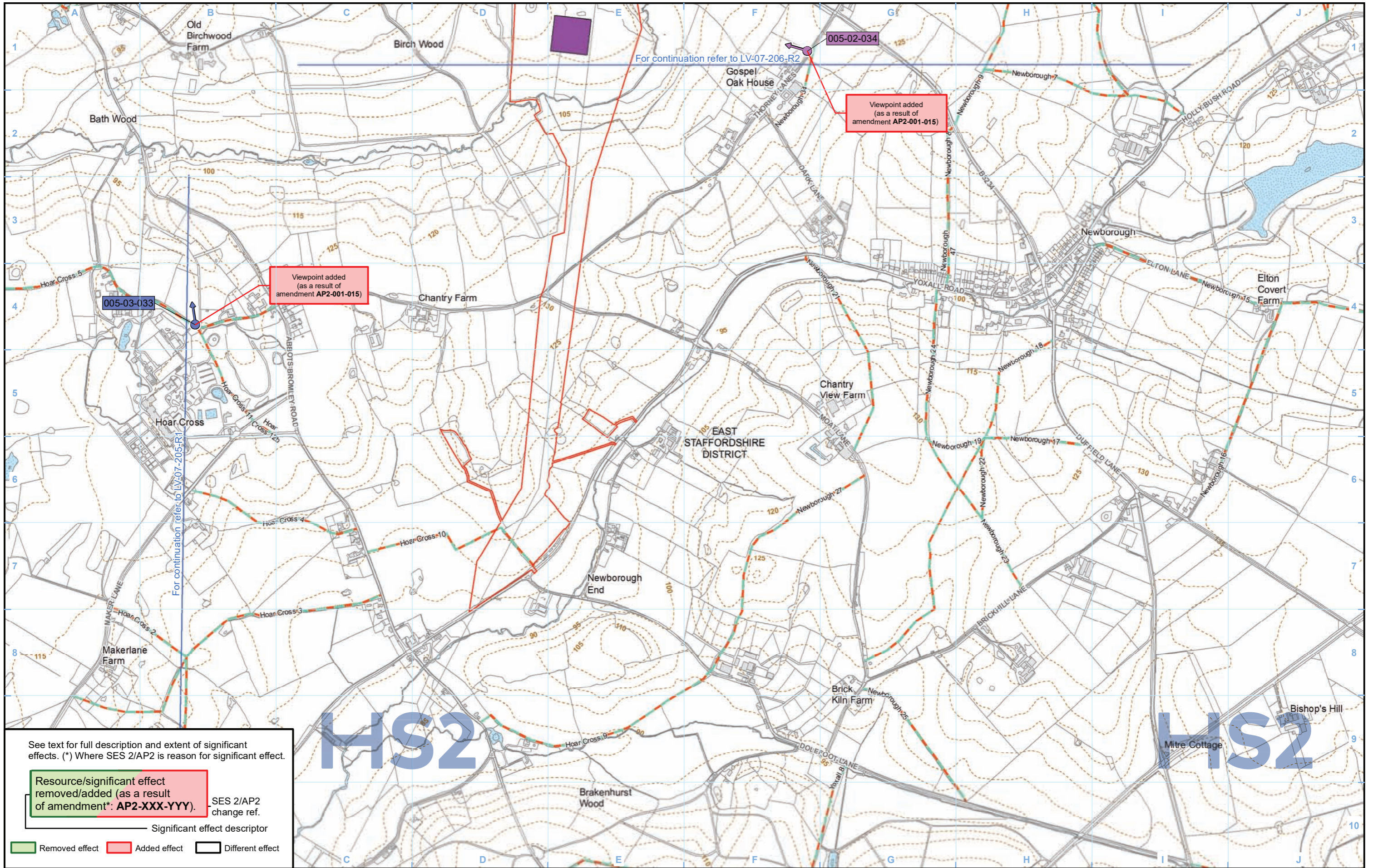
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018. OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608105-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-205-R2

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

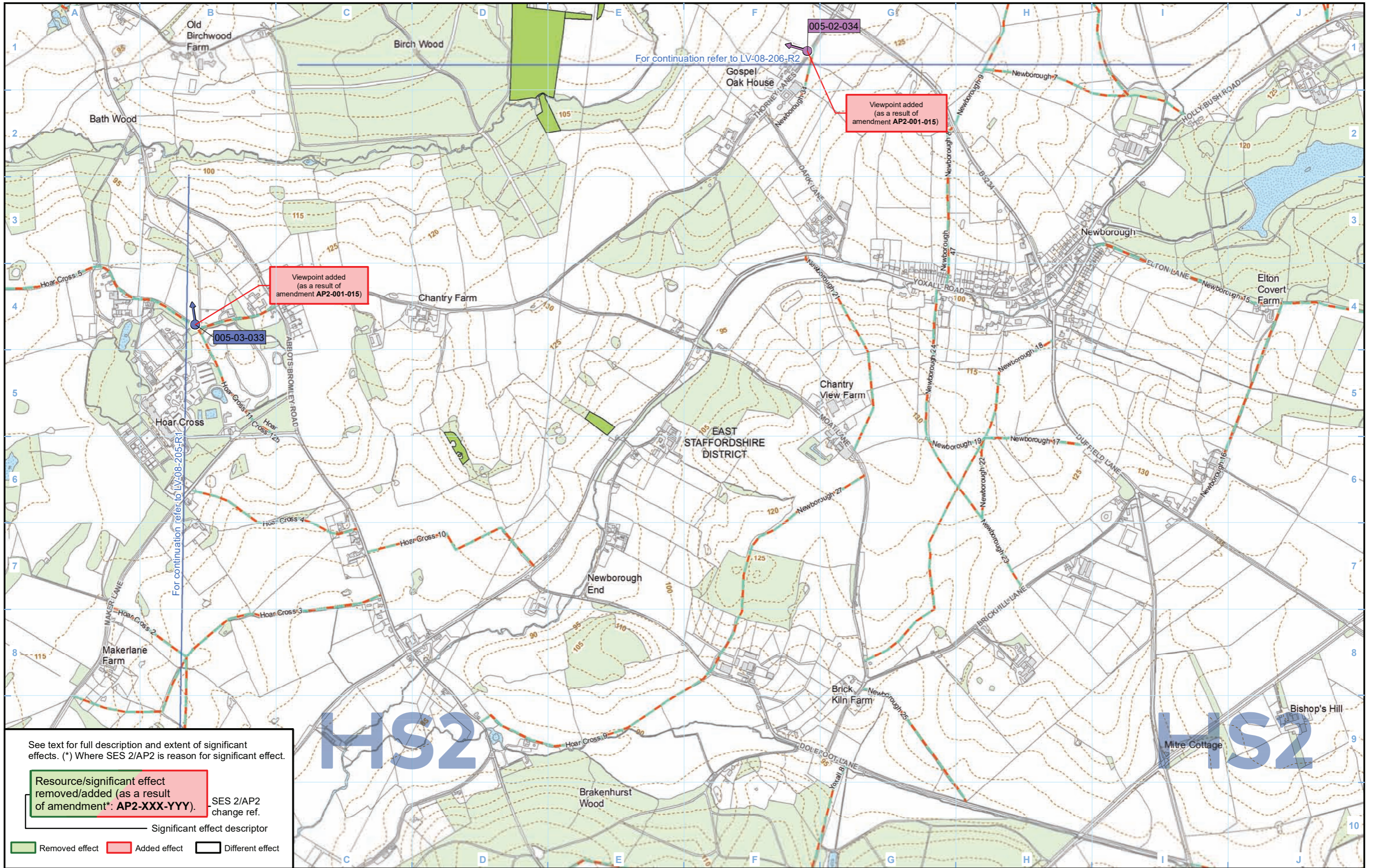
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607405-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

— Significant effect descriptor

█ Removed effect
 █ Added effect
 Different effect

Legend

<ul style="list-style-type: none"> — Route in tunnel — Route on surface ▭ Depot, station, headhouse or portal building ▭ Community area boundary - - - County boundary - - - District/Borough boundary 	<ul style="list-style-type: none"> — Public Rights of Way (PRoW) --- 5m contours ▭ Water body ▭ Existing woodland and tree belts ▭ Proposed tree planting ▭ Cannock Chase Area of Outstanding Natural Beauty (AONB) 	<ul style="list-style-type: none"> ▭ ZTV operation year 1 ▭ ZTV operation year 15 ▭ 001-1-001 Non significantly affected viewpoint number ▭ 001-1-001 Significantly affected viewpoint number ▭ 001-1-001 Photomontage viewpoint number 	<ul style="list-style-type: none"> ⬆ Non significantly affected viewpoint ⬆ Significantly affected viewpoint 🖼 Photomontage location 	<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
--	---	--	---	---

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-205-R2

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

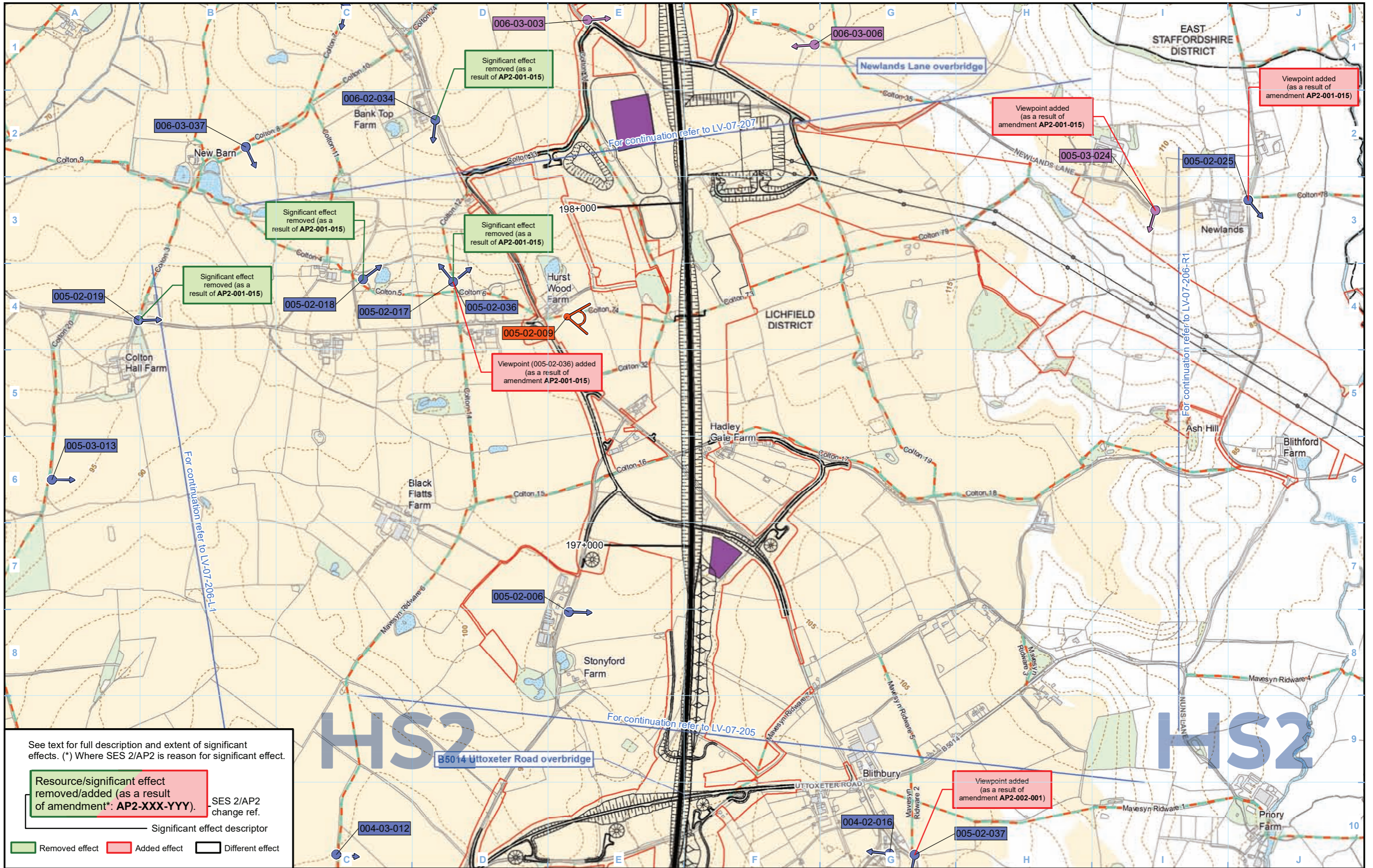
© Crown copyright and database rights 2018. OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608405-P03

Date: 17/01/19

Scale at A3: 1:10,000

0 100 200 300 400 Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-206

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

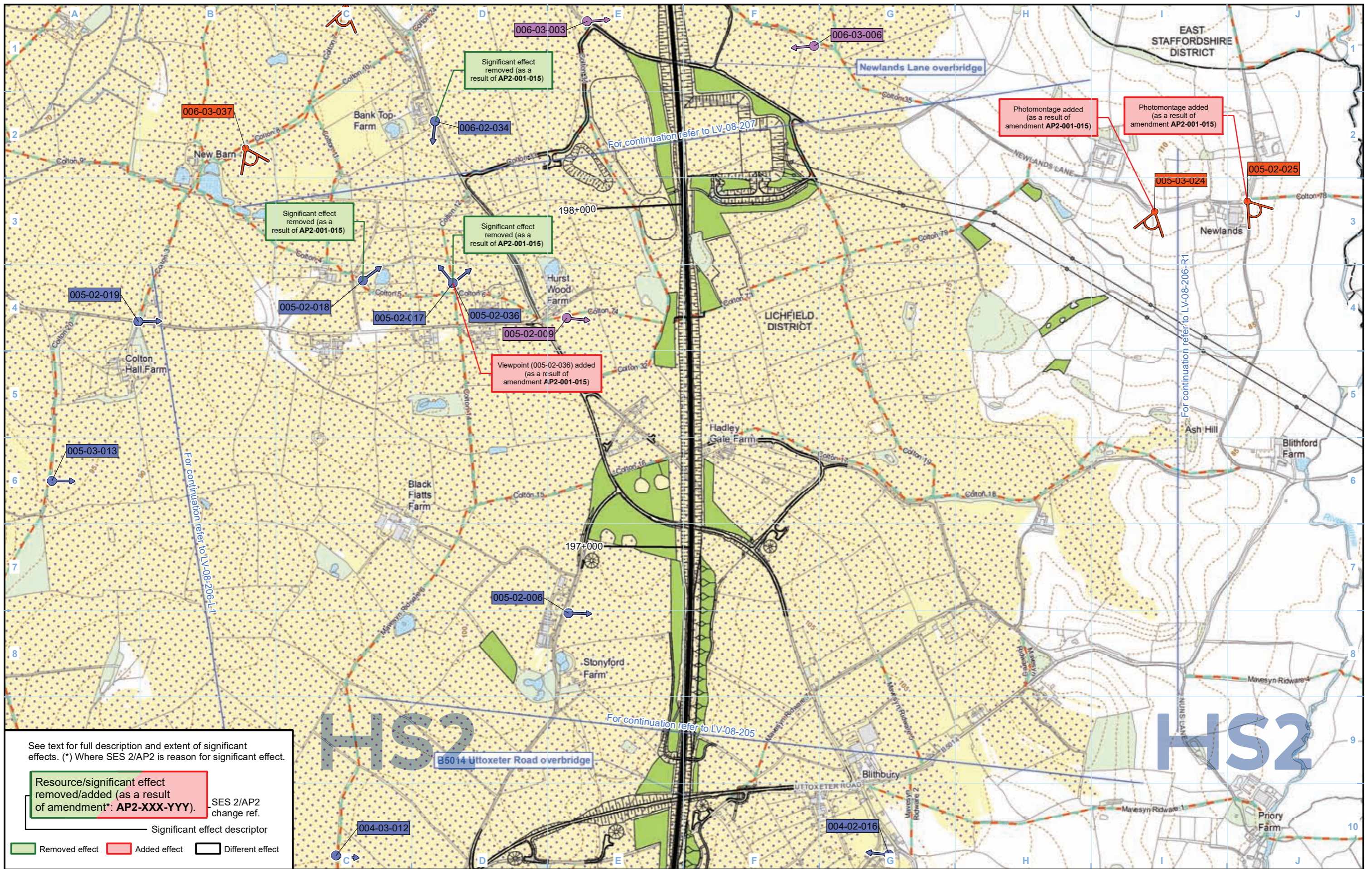
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607106-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (Green box) Added effect (Red box) Different effect (Black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- Non significantly affected viewpoint number
- Significantly affected viewpoint number
- Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-206

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

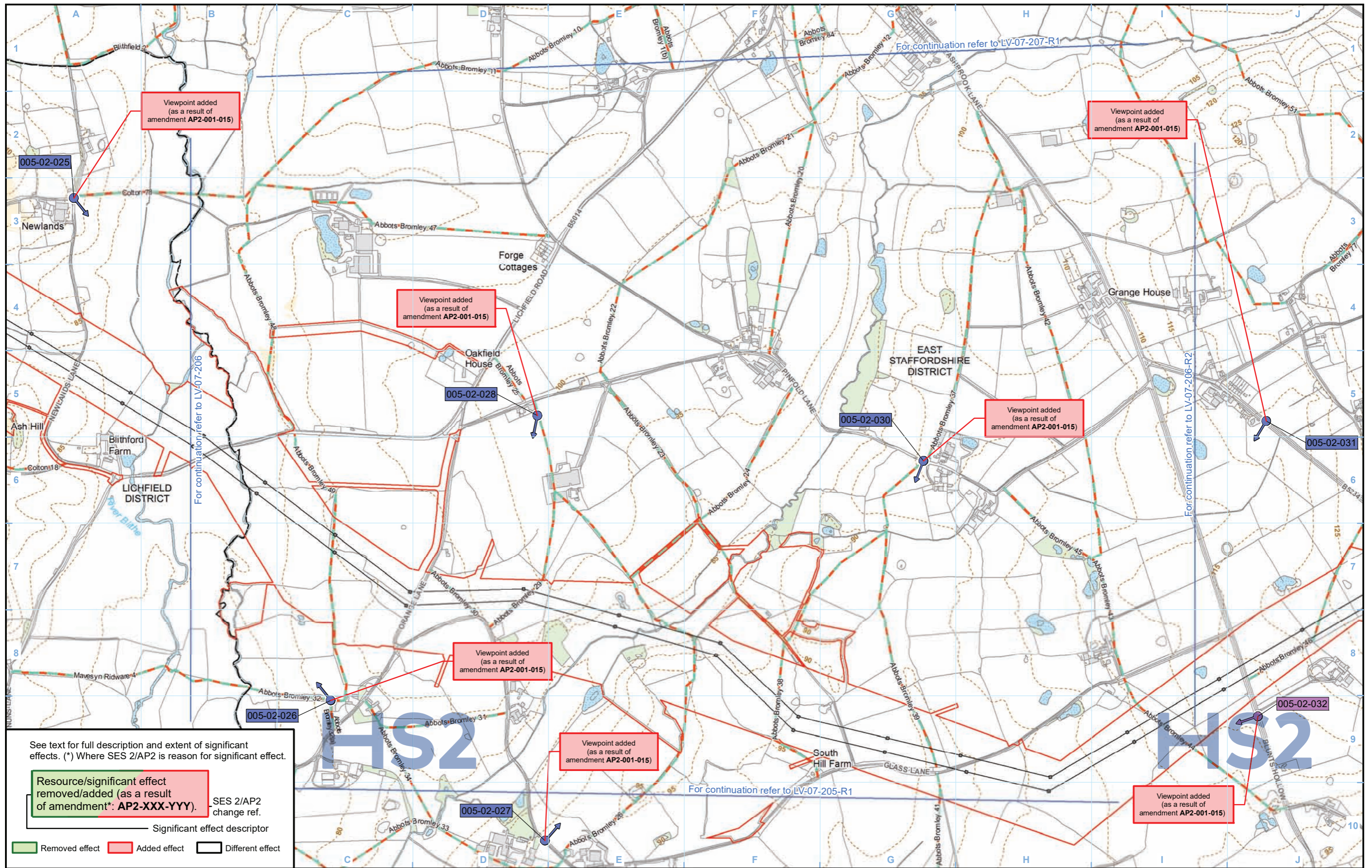
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608106-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.	
Significant effect descriptor		
Removed effect	Added effect	Different effect

Legend

Route in tunnel	District/Borough boundary	ZTV construction	Non significantly affected viewpoint	Embankment
Route on surface	Public Rights of Way (PRoW)	5m contours	Significantly affected viewpoint	Cutting
Depot, station, headhouse or portal building	Water body	Existing woodland and tree belts	Photomontage location	Non engineering earthworks: Embankment
Land potentially required during construction	Construction compounds	Community area boundary	Photomontage location	Non engineering earthworks: Cutting
County boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)	001-1-001 Non significantly affected viewpoint number		
		001-1-001 Significantly affected viewpoint number		
		001-1-001 Photomontage viewpoint number		

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-206-R1
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 1: Fradley to Colton	

HS2

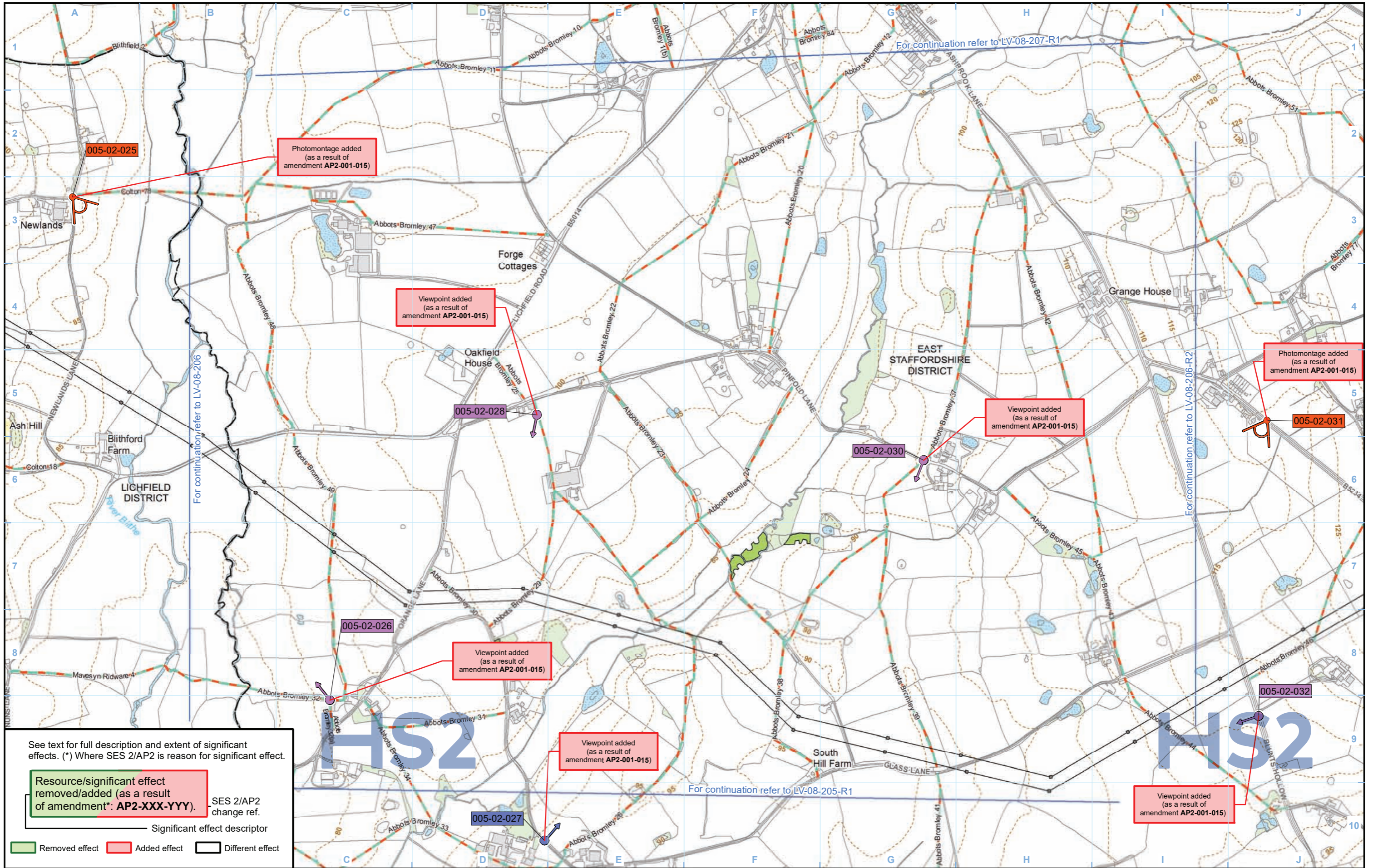
Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607306-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
Significant effect descriptor	
Removed effect	Added effect
Different effect	

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		Embankment
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-206-R1
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 1: Fradley to Colton	

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 6QA.

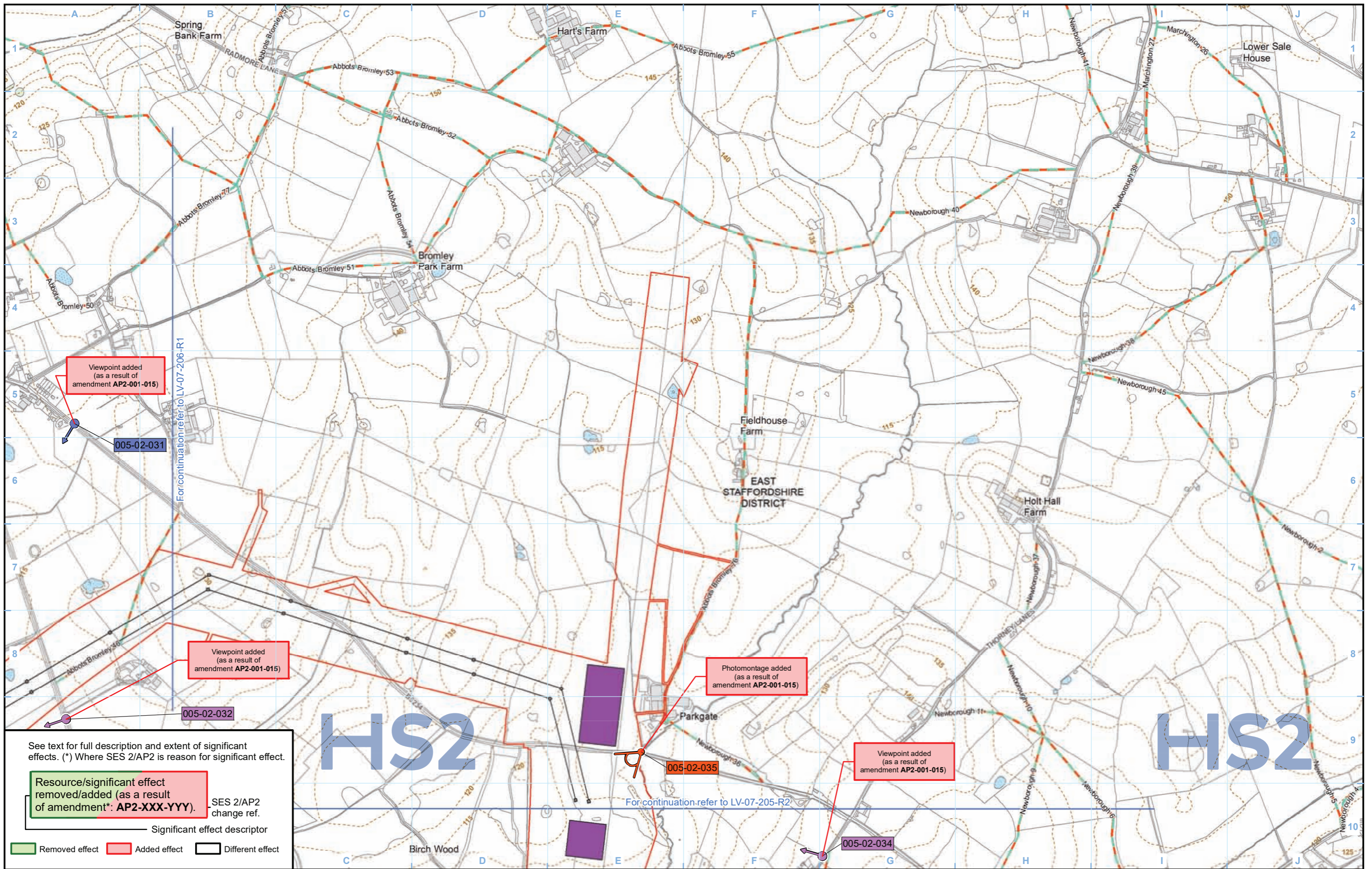
© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608306-P03

Scale at A3: 1:10,000

Metres

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
— Significant effect descriptor	
 Removed effect	 Added effect
 Different effect	

Legend

Route in tunnel	District/Borough boundary	ZTV construction	Non significantly affected viewpoint	Embankment
Route on surface	Public Rights of Way (PRoW)	Non significantly affected viewpoint number	Significantly affected viewpoint	Cutting
Depot, station, headhouse or portal building	5m contours	Significantly affected viewpoint number	Photomontage location	Non engineering earthworks: Embankment
Land potentially required during construction	Water body	Photomontage viewpoint number		Non engineering earthworks: Cutting
Community area boundary	Existing woodland and tree belts			
County boundary	Construction compounds			
	Cannock Chase Area of Outstanding Natural Beauty (AONB)			

HS2

HS2

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-206-R2
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 1: Fradley to Colton	

HS2

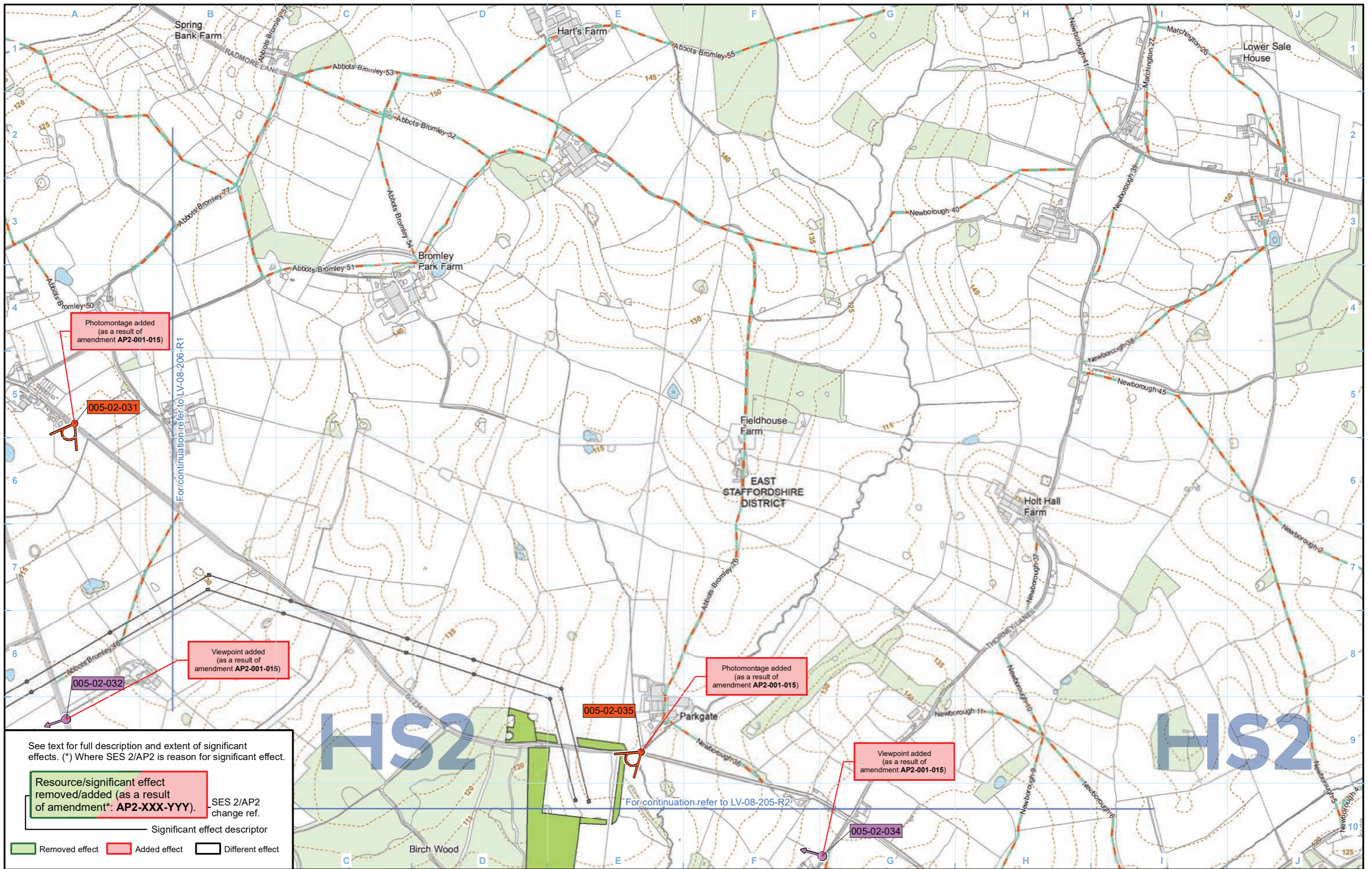
Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607406-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

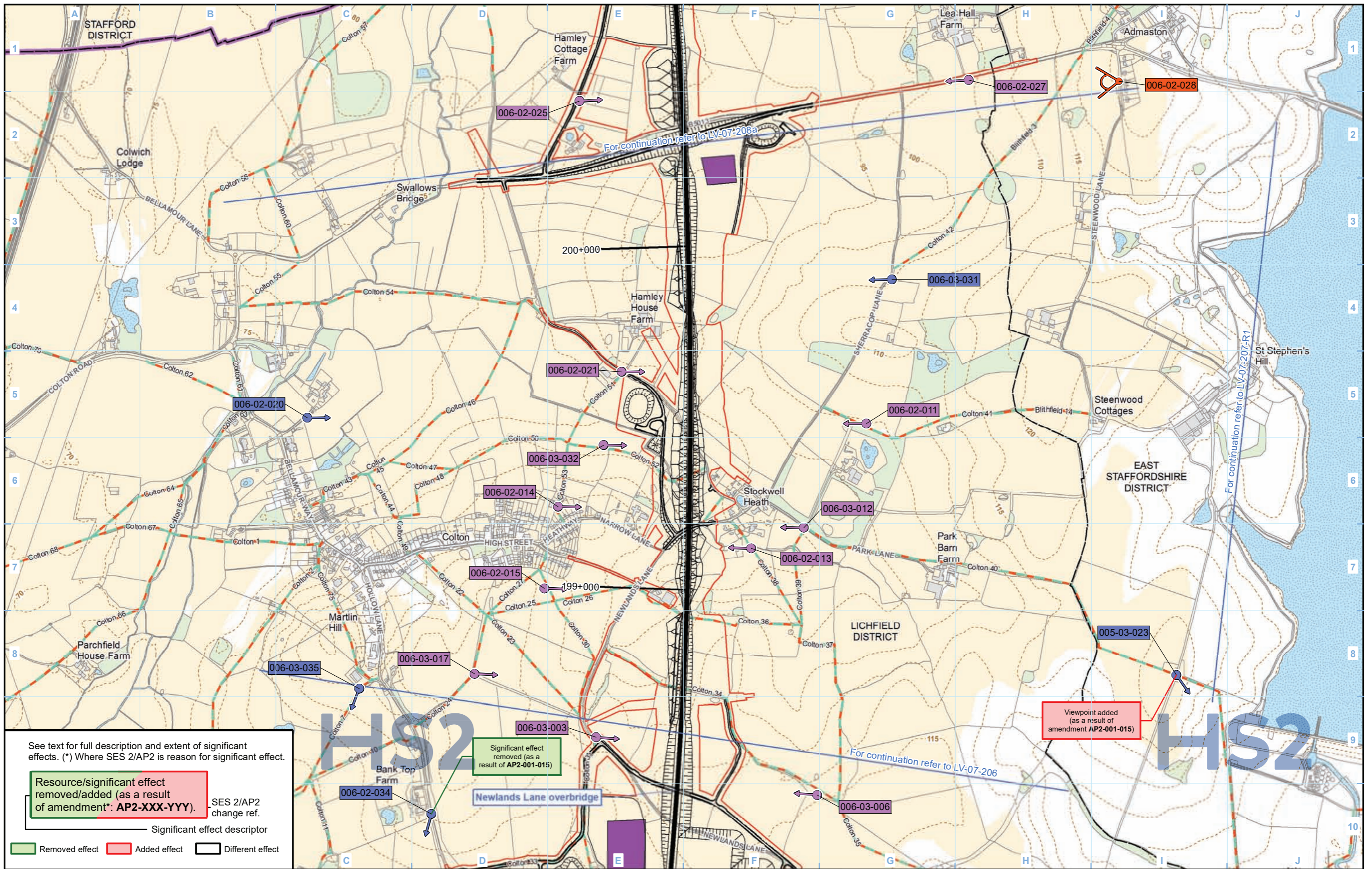
Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
— Significant effect descriptor	
 Removed effect	 Added effect
 Different effect	

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks: Embankment
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Engineering earthworks: Cutting
Depot, station, headhouse or portal building	Water body	Non significantly affected viewpoint number	Photomontage location	Non engineering earthworks: Embankment
Community area boundary	Existing woodland and tree belts	Significantly affected viewpoint number		Non engineering earthworks: Cutting
County boundary	Proposed tree planting	Photomontage viewpoint number		
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-206-R2
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 1: Fradley to Colton

HS2	<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>	
Doc Number: 2PT02-ARP-EV-MAP-000-608406-P03		Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (Green box) Added effect (Red box) Different effect (Black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-207

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

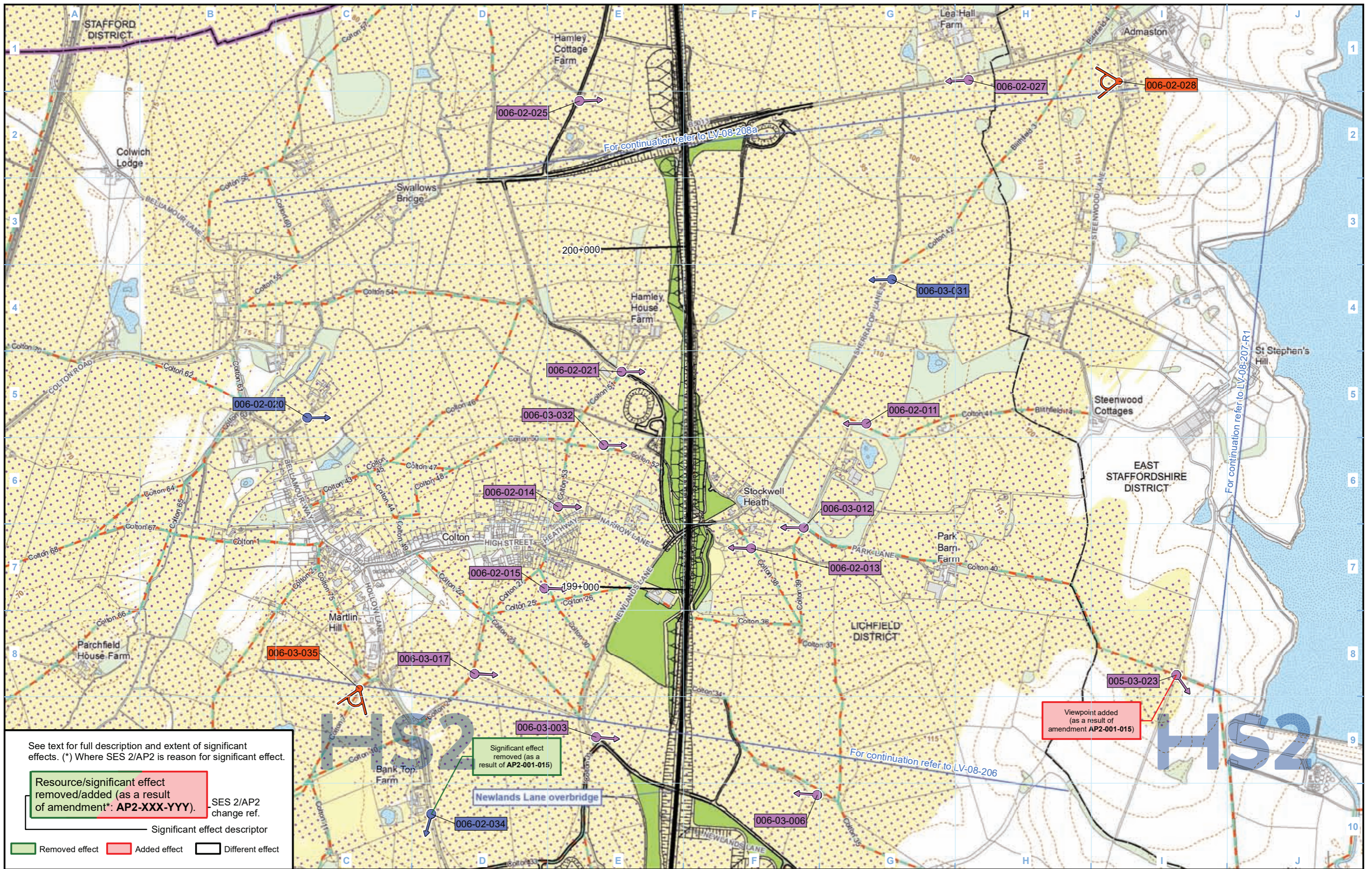
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607107-P03

Scale at A3: 1:10,000

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- Non significantly affected viewpoint number
- Significantly affected viewpoint number
- Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-207

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 1: Fradley to Colton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

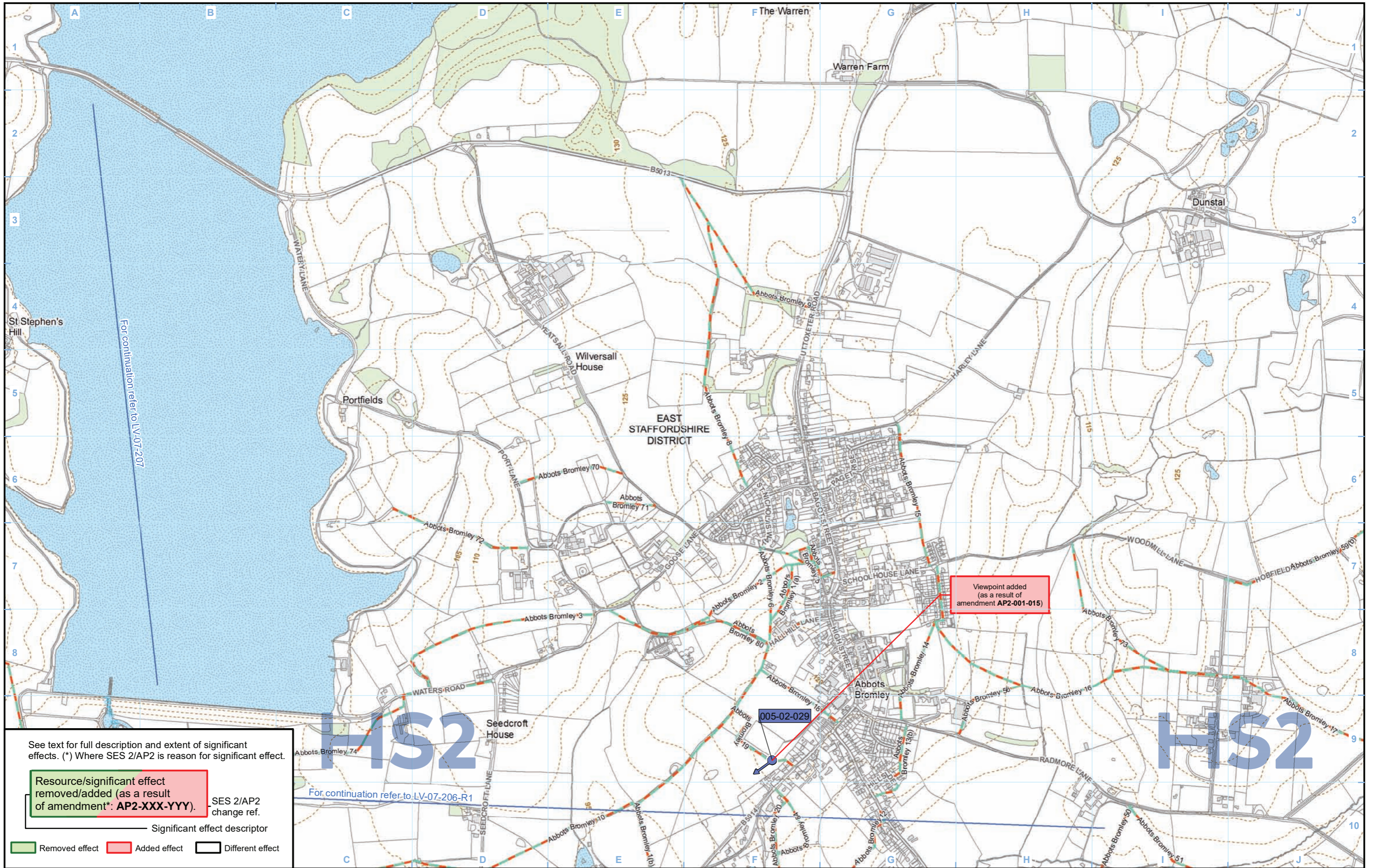
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608107-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

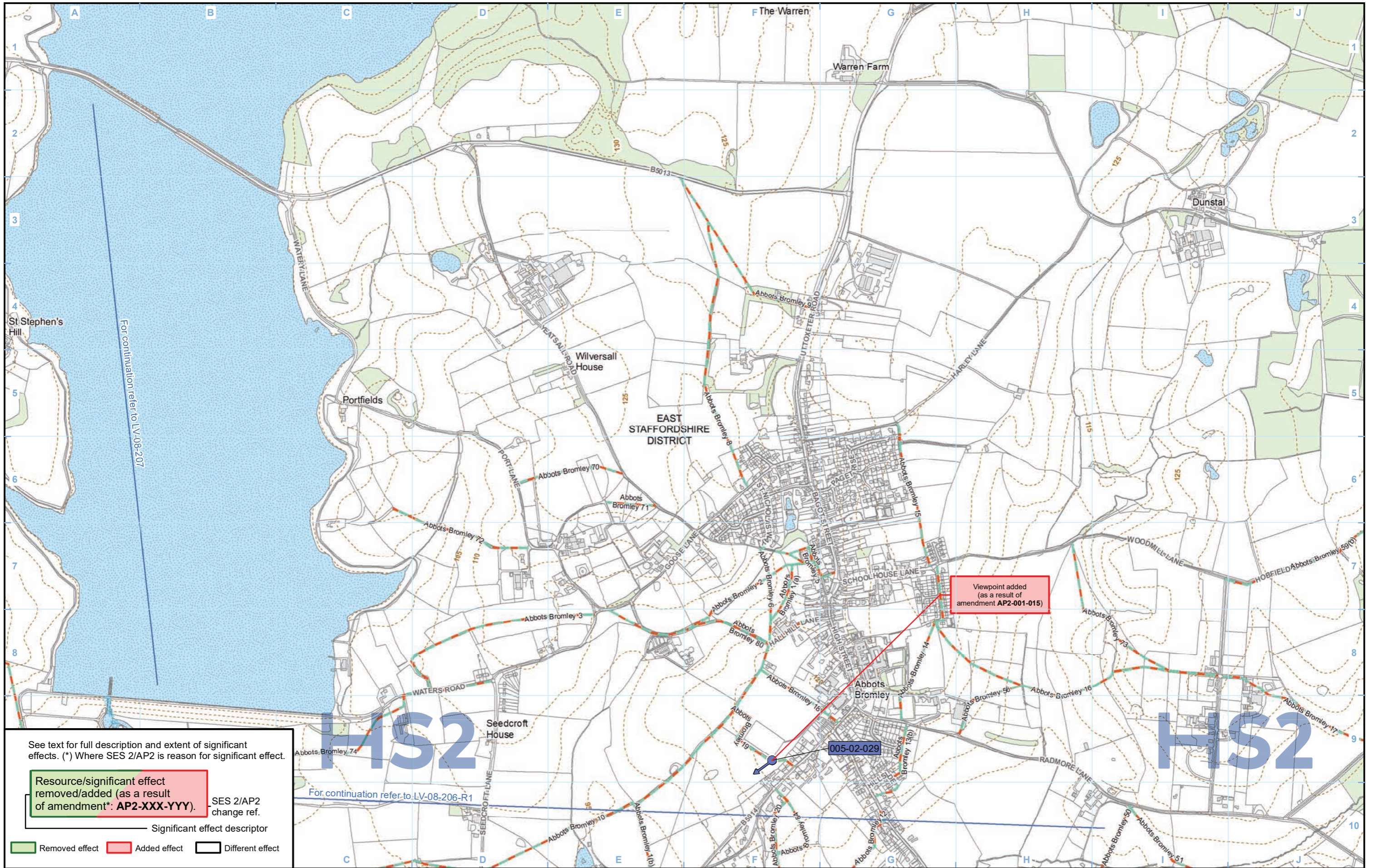
Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
— Significant effect descriptor	
 Removed effect	 Added effect
 Different effect	

	Engineering earthworks:
	Non engineering earthworks:

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-207-R1
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 1: Fradley to Colton	

	<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>
	Scale at A3: 1:10,000
	Metres
Doc Number: 2PT02-ARP-EV-MAP-000-607307-P03	Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
—	Significant effect descriptor
Removed effect	Added effect
Different effect	

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		Embankment
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-207-R1
 Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
 Community Area 1: Fradley to Colton

HS2

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

Doc Number: 2PT02-ARP-EV-MAP-000-608307-P03

Date: 17/01/19

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.

This page is left intentionally blank

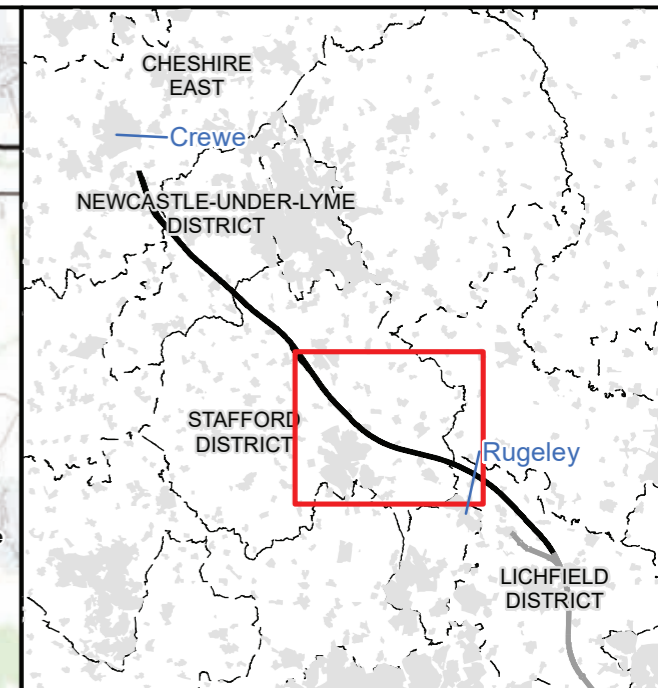
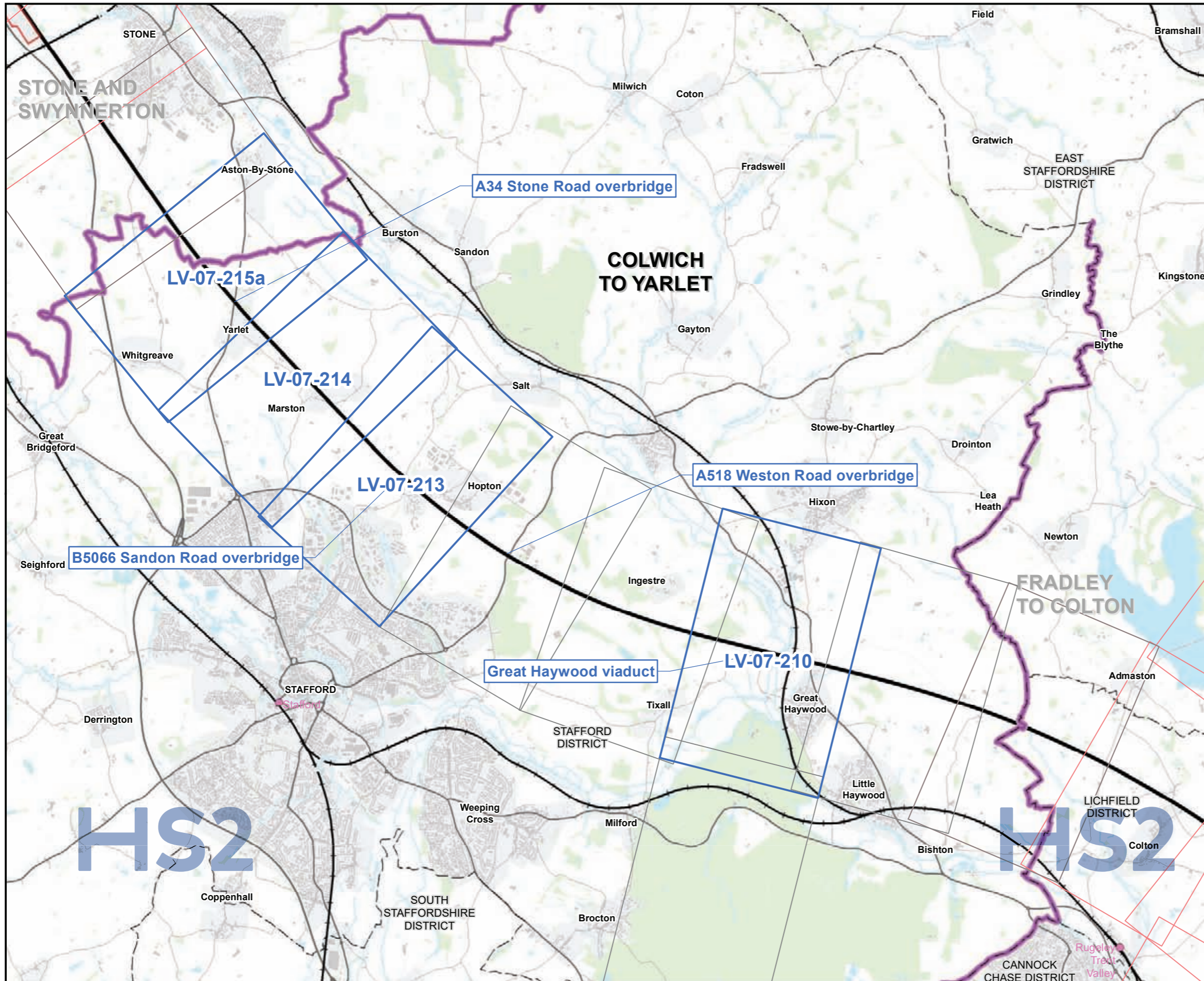
High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

CA2 Colwich to Yarlet

LV-07 - Construction Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints

LV-08 - Operational Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints



Map Series Information:

Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-07-INDEX-CA2
Map Name	Index Map of: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 2: Colwich to Yarlet

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

© Crown copyright and database rights 2018
OS 100049190

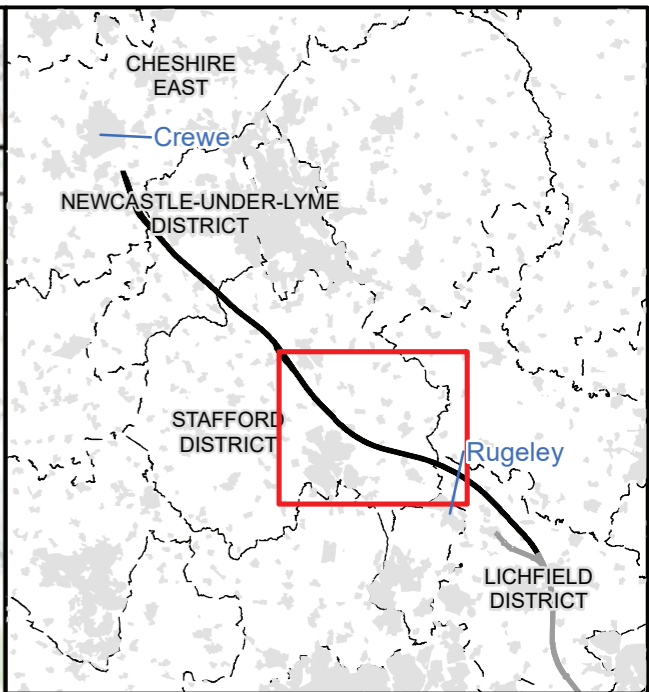
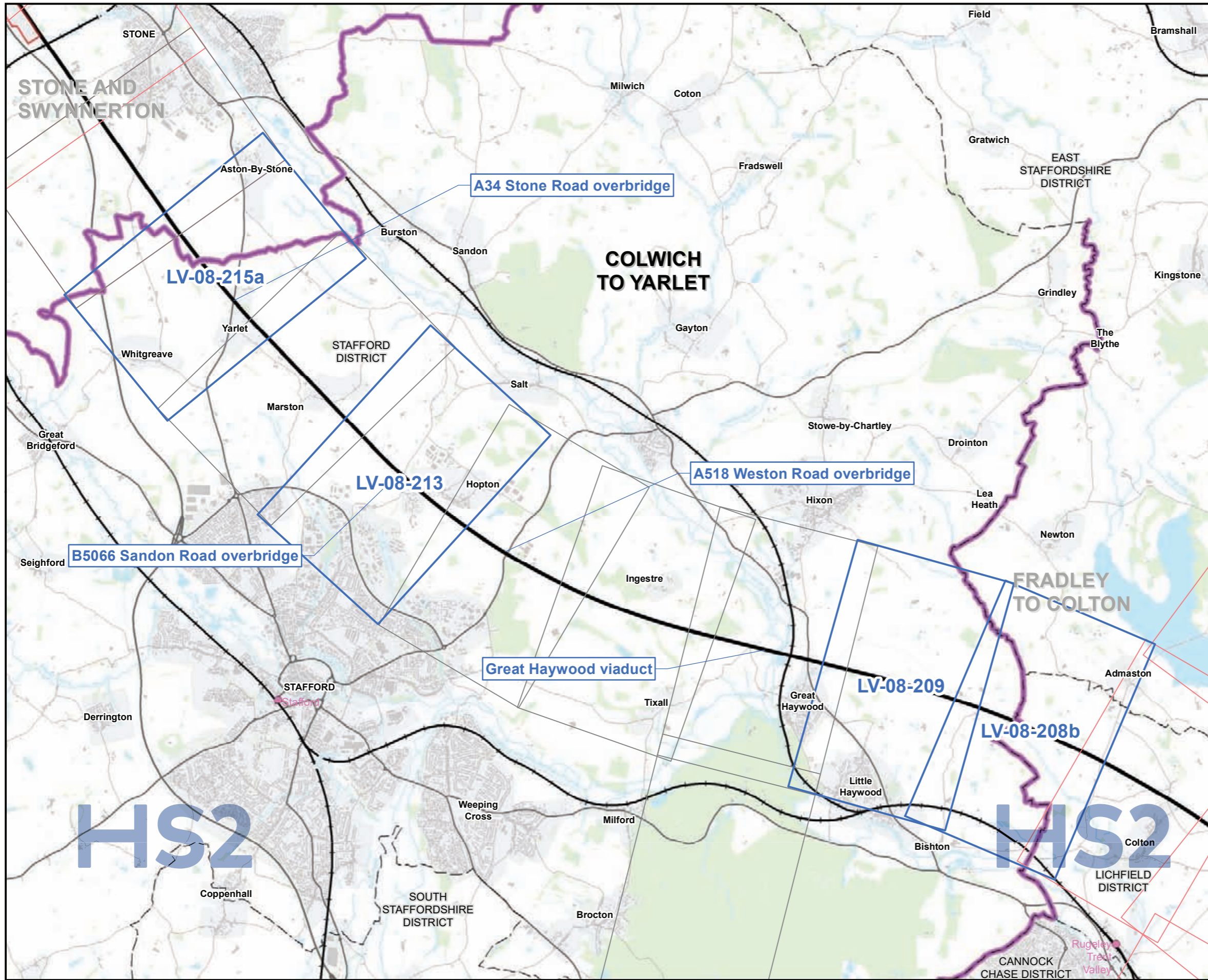
Doc Number: 2PT02-ARP-EV-MAP-000-607002-P03

Scale at A3: 1:60,000

Metres

Date: 17/01/19

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



Map Series Information:

Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-08-INDEX-CA2
Map Name	Index Map of: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 2: Colwich to Yarlet

HS2 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.

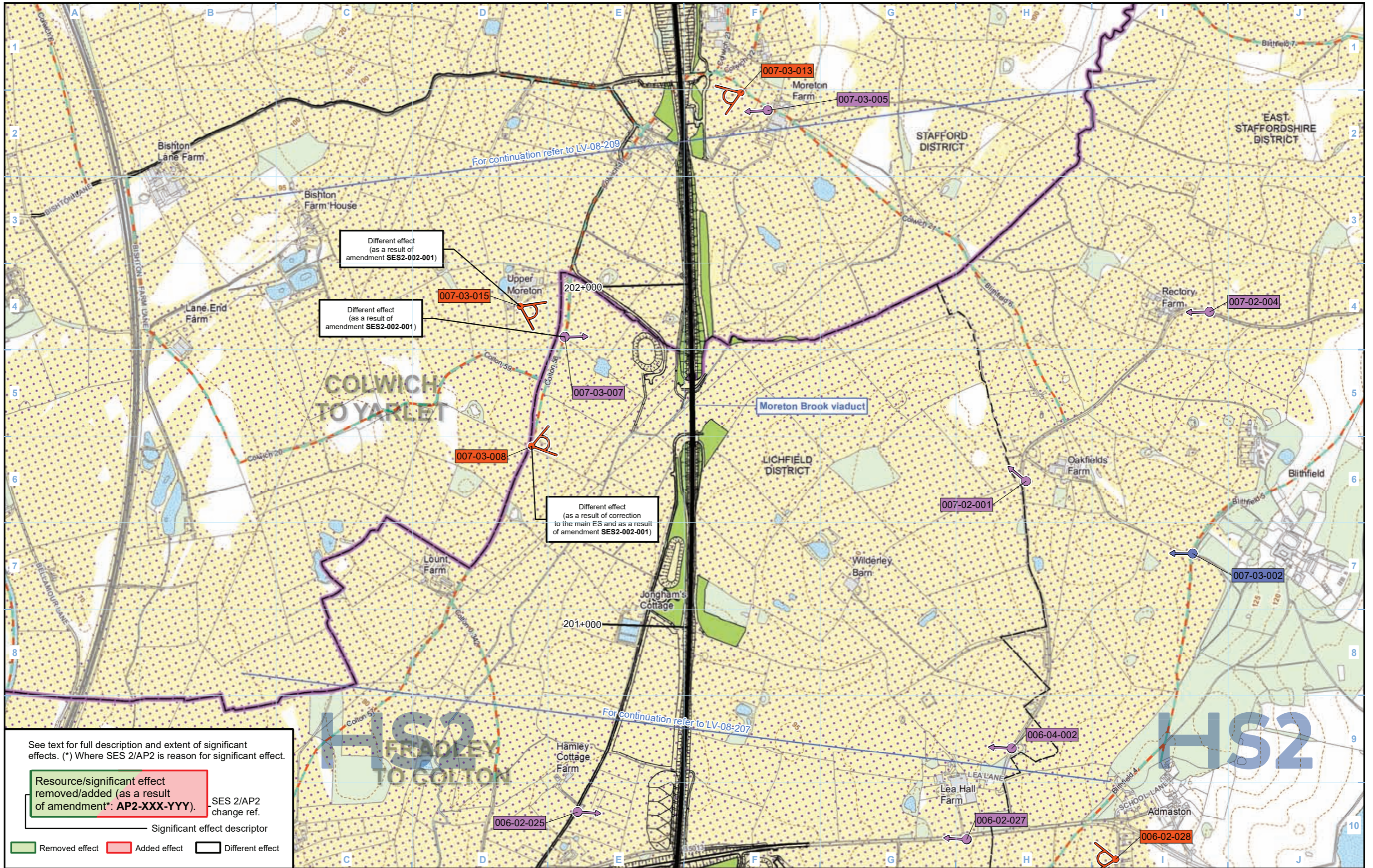
Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.

Scale at A3: 1:60,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608002-P03 Date: 17/01/19

This page is left intentionally blank



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
— Significant effect descriptor	
 Removed effect	 Added effect
 Different effect	

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks: Embankment
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Engineering earthworks: Cutting
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Non engineering earthworks: Embankment
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks: Cutting
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-208b
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 2:	Colwich to Yarlet

HS2

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.

© Crown copyright and database rights 2018
OS 100049190

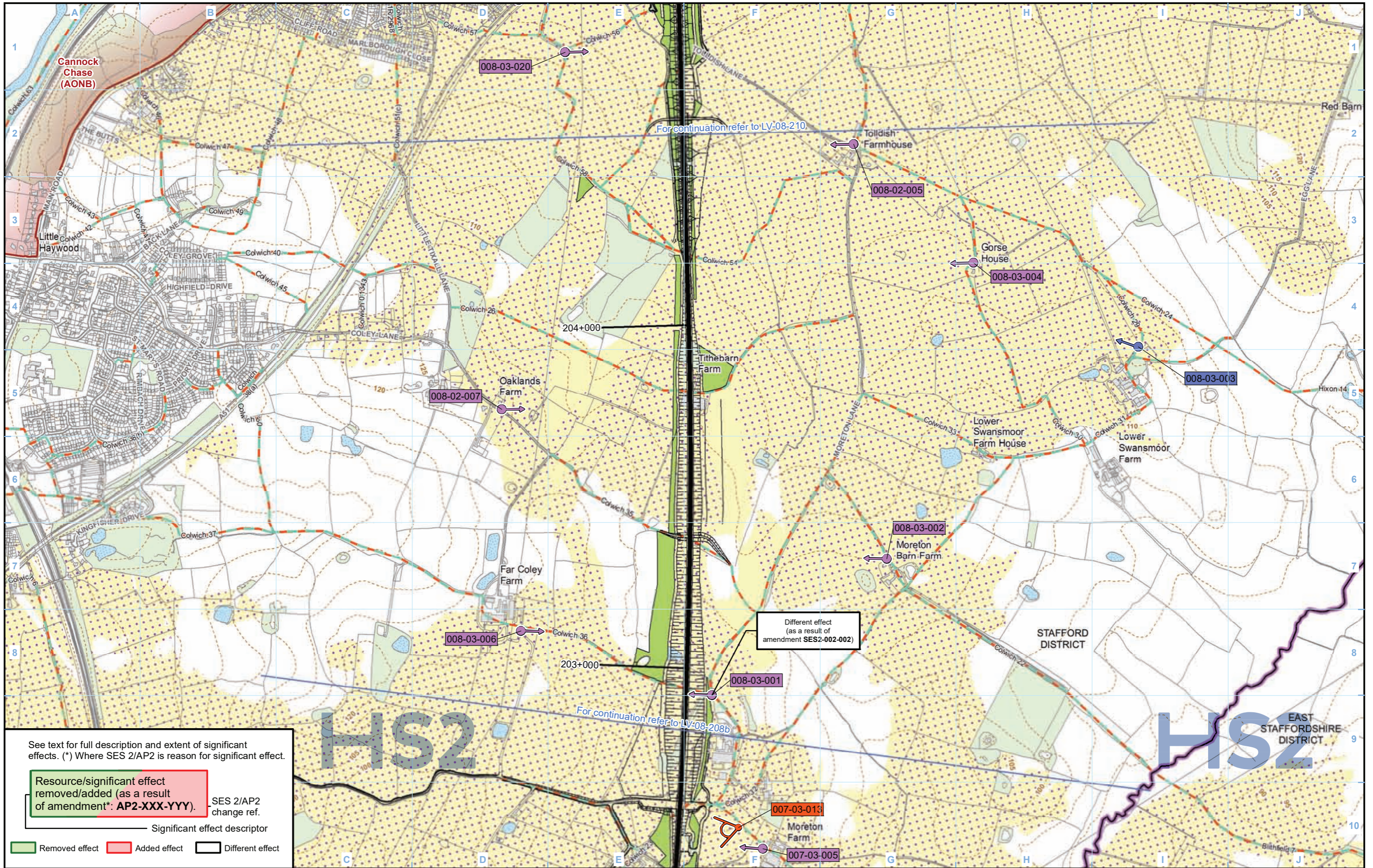
Doc Number: 2PT02-ARP-EV-MAP-000-608308-P03

Scale at A3: 1:10,000

Metres

Date: 17/01/19

This page is left intentionally blank



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

- Removed effect
- Added effect
- Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- Non significantly affected viewpoint number
- Significantly affected viewpoint number
- Photomontage viewpoint number
- Photomontage location
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Embankment
- Cutting
- Embankment
- Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-209

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 2: Colwich to Yarlet

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

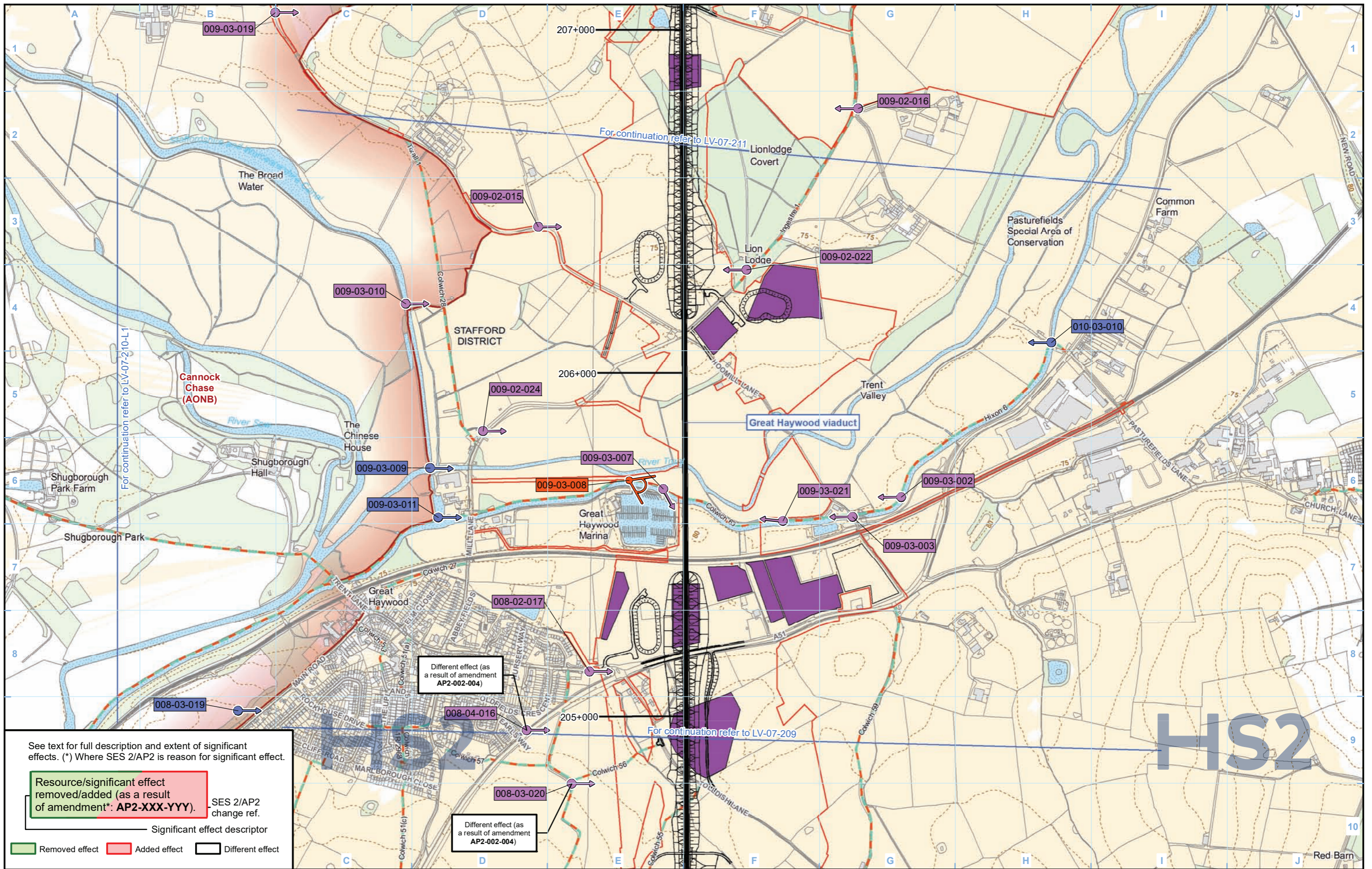
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608109-P03

Scale at A3: 1:10,000

Metres

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
— Significant effect descriptor	
 Removed effect	 Added effect
 Different effect	

Legend

Route in tunnel	District/Borough boundary	ZTV construction	Non significantly affected viewpoint	Engineering earthworks: Embankment
Route on surface	Public Rights of Way (PRoW)	5m contours	Significantly affected viewpoint	Engineering earthworks: Cutting
Depot, station, headhouse or portal building	Water body	Existing woodland and tree belts	Photomontage location	Non engineering earthworks: Embankment
Land potentially required during construction	Construction compounds	Cannock Chase Area of Outstanding Natural Beauty (AONB)	001-1-001 Non significantly affected viewpoint number	Non engineering earthworks: Cutting
Community area boundary	001-1-001 Significantly affected viewpoint number	001-1-001 Photomontage viewpoint number		
County boundary				

Legend

001-1-001 Non significantly affected viewpoint number	001-1-001 Significantly affected viewpoint number	001-1-001 Photomontage viewpoint number
---	---	---

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-07-210
Map Name	Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 2: Colwich to Yarlet	

HS2

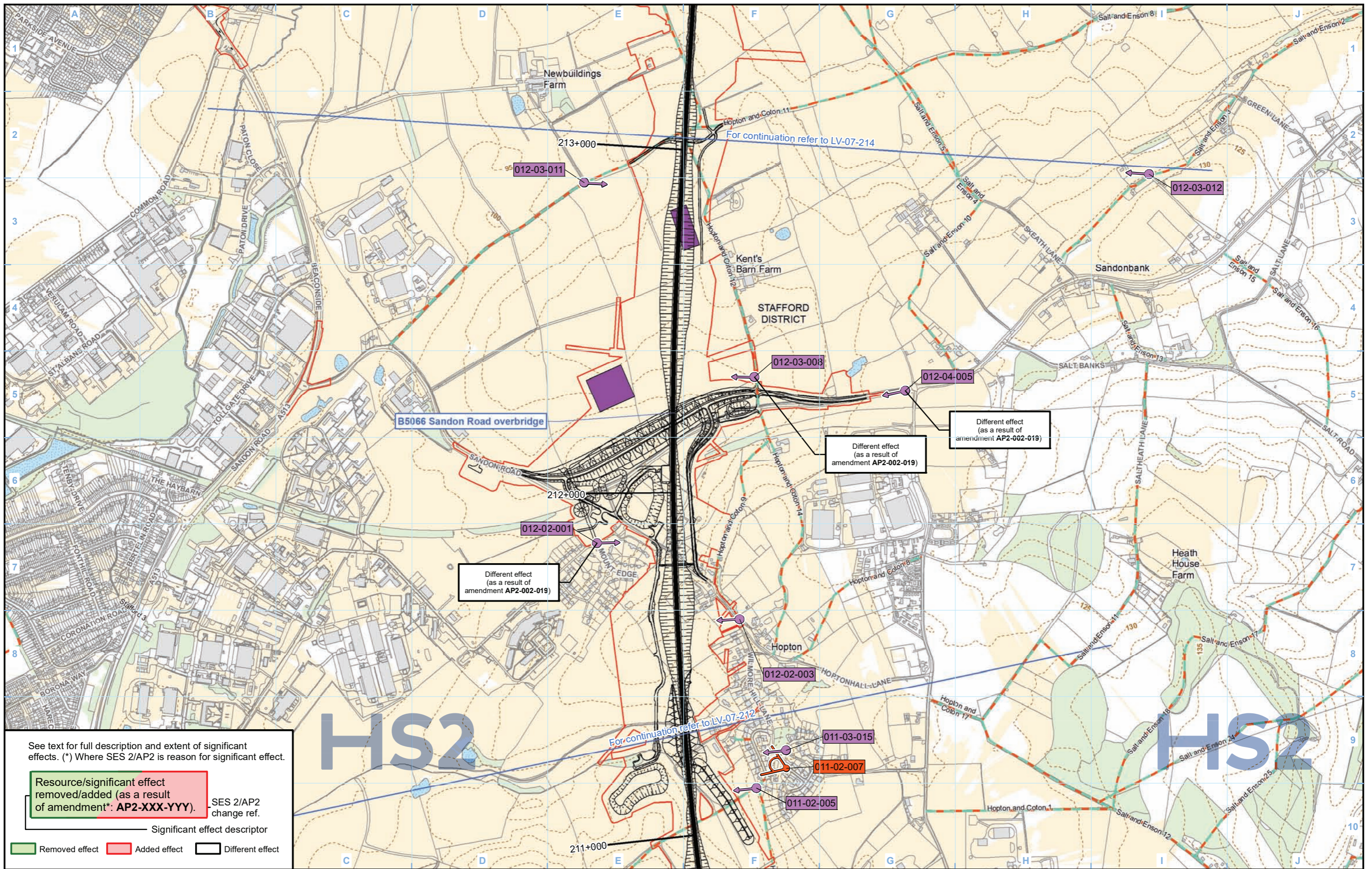
Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

0 100 200 300 400 Metres

Doc Number: 2PT02-ARP-EV-MAP-000-607110-P03 Date: 17/01/19

This page is left intentionally blank



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (Green box) Added effect (Red box) Different effect (Black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- Non significantly affected viewpoint number (001-1-001)
- Significantly affected viewpoint number (012-02-001)
- Photomontage viewpoint number (001-1-001)
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

HS2

HS2

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-213

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 2: Colwich to Yarlet

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

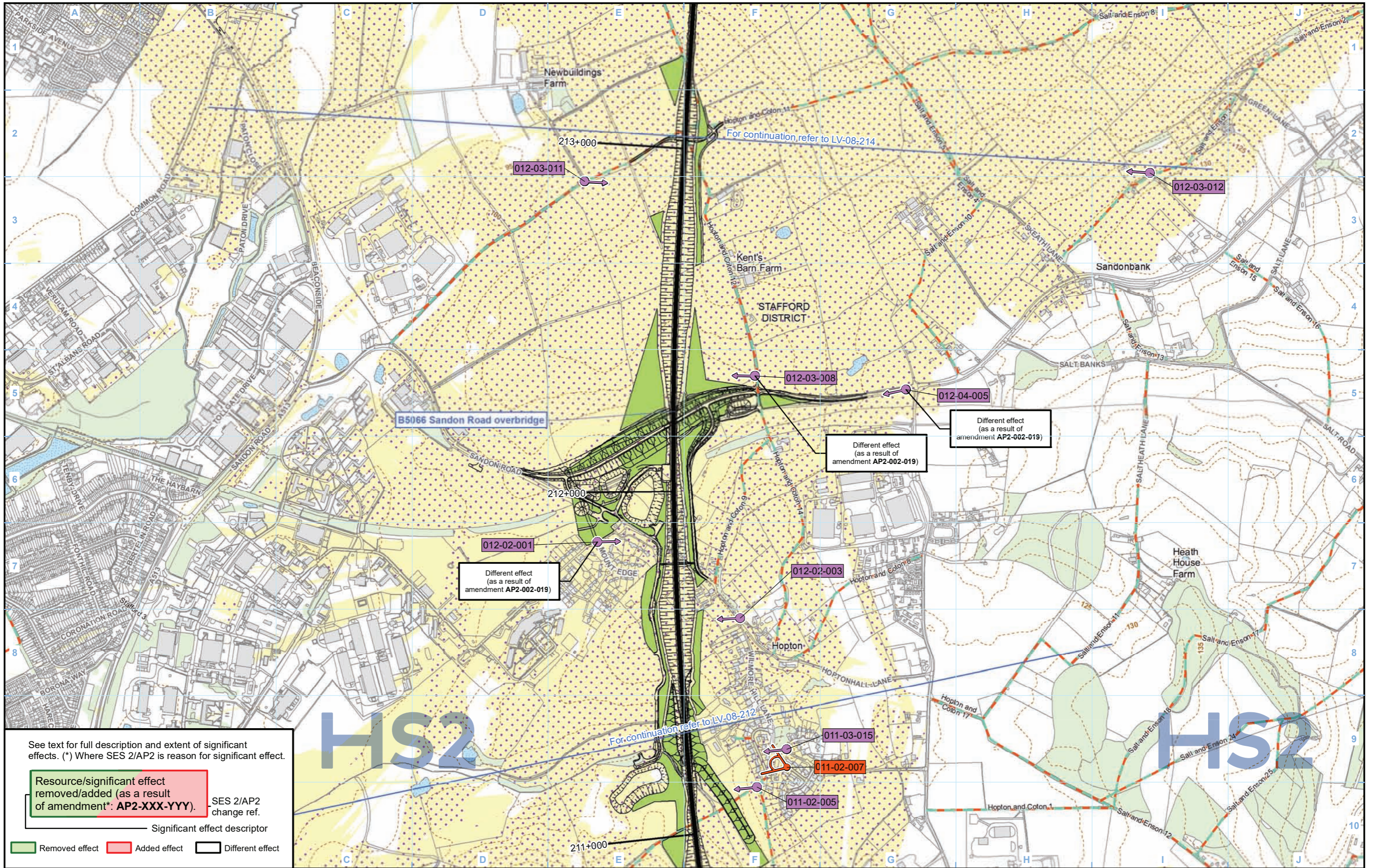
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607113-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

— Significant effect descriptor

█ Removed effect
 █ Added effect
 Different effect

Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Public Rights of Way (PRoW) 5m contours Water body Existing woodland and tree belts Proposed tree planting Cannock Chase Area of Outstanding Natural Beauty (AONB) 	<ul style="list-style-type: none"> ZTV operation year 1 ZTV operation year 15 Non significantly affected viewpoint number Significantly affected viewpoint number Photomontage viewpoint number 	<ul style="list-style-type: none"> ↑ Non significantly affected viewpoint ↑ Significantly affected viewpoint ↑ Photomontage location 	<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
--	---	---	---	---

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-213

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 2: Colwich to Yarlet

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

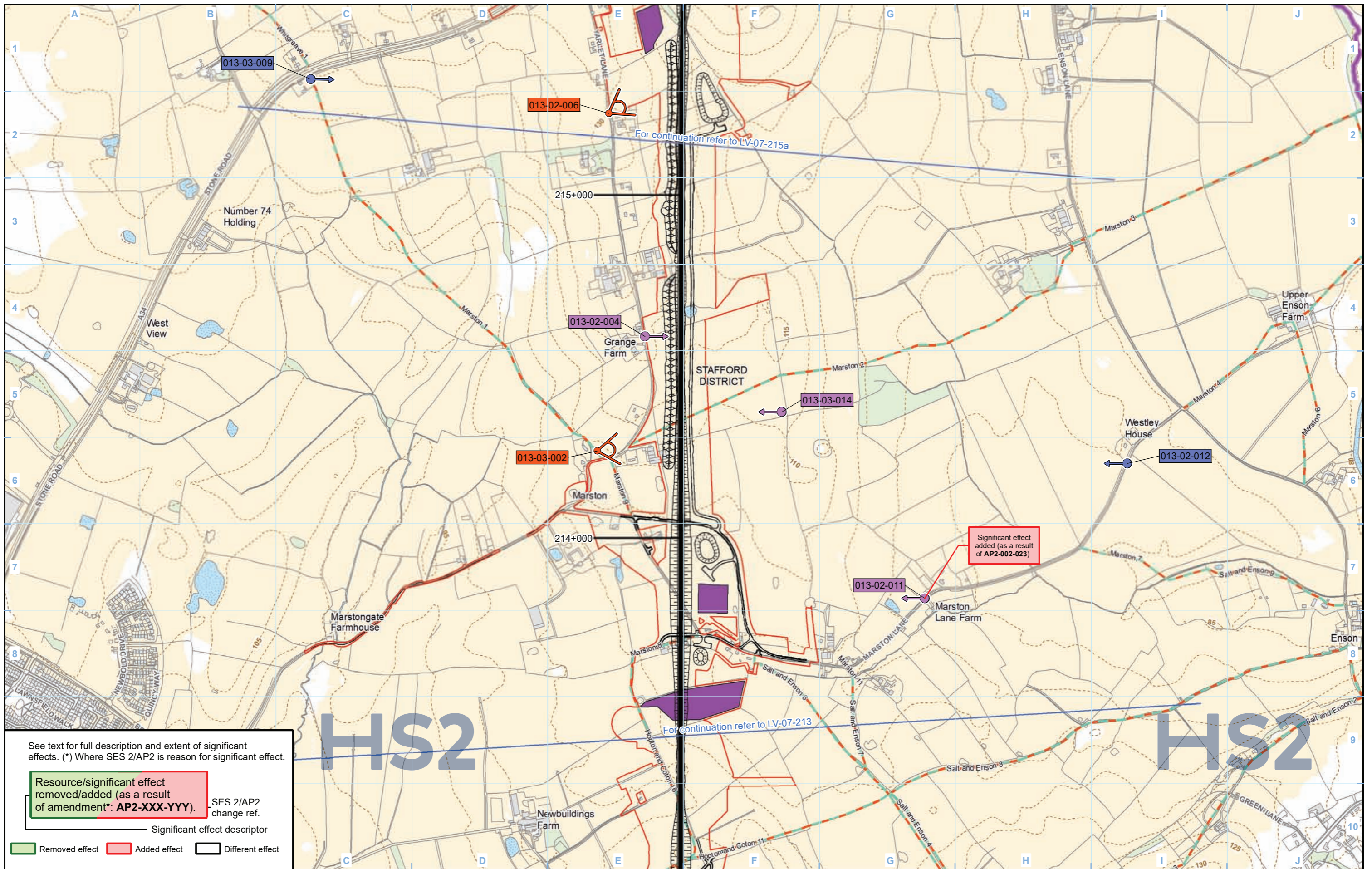
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608113-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-214

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 2: Colwich to Yarlet

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

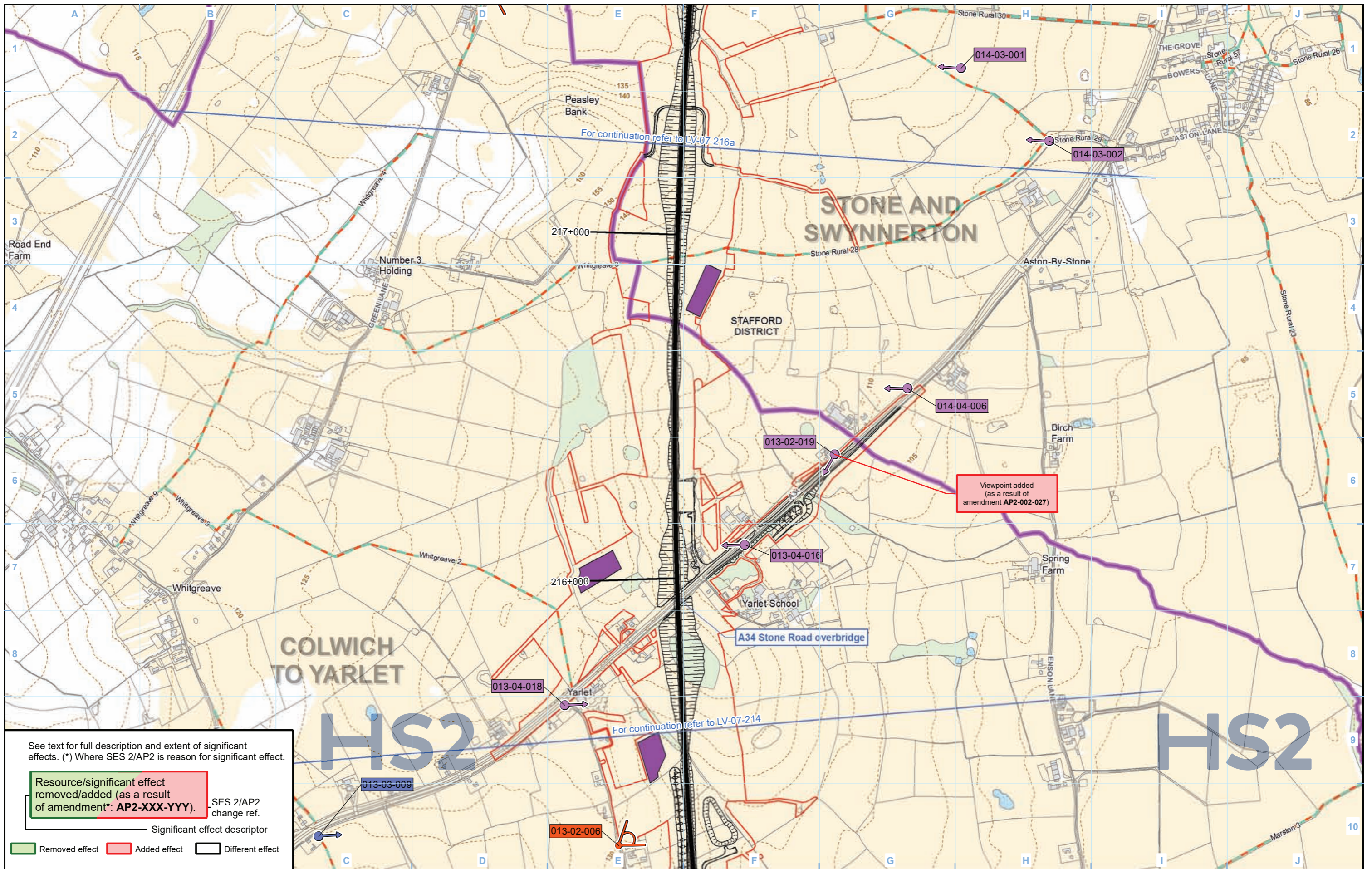
Doc Number: 2PT02-ARP-EV-MAP-000-607114-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres

This page is left intentionally blank



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number LV-07-215a

Map Name Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 2: Colwich to Yarlet

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

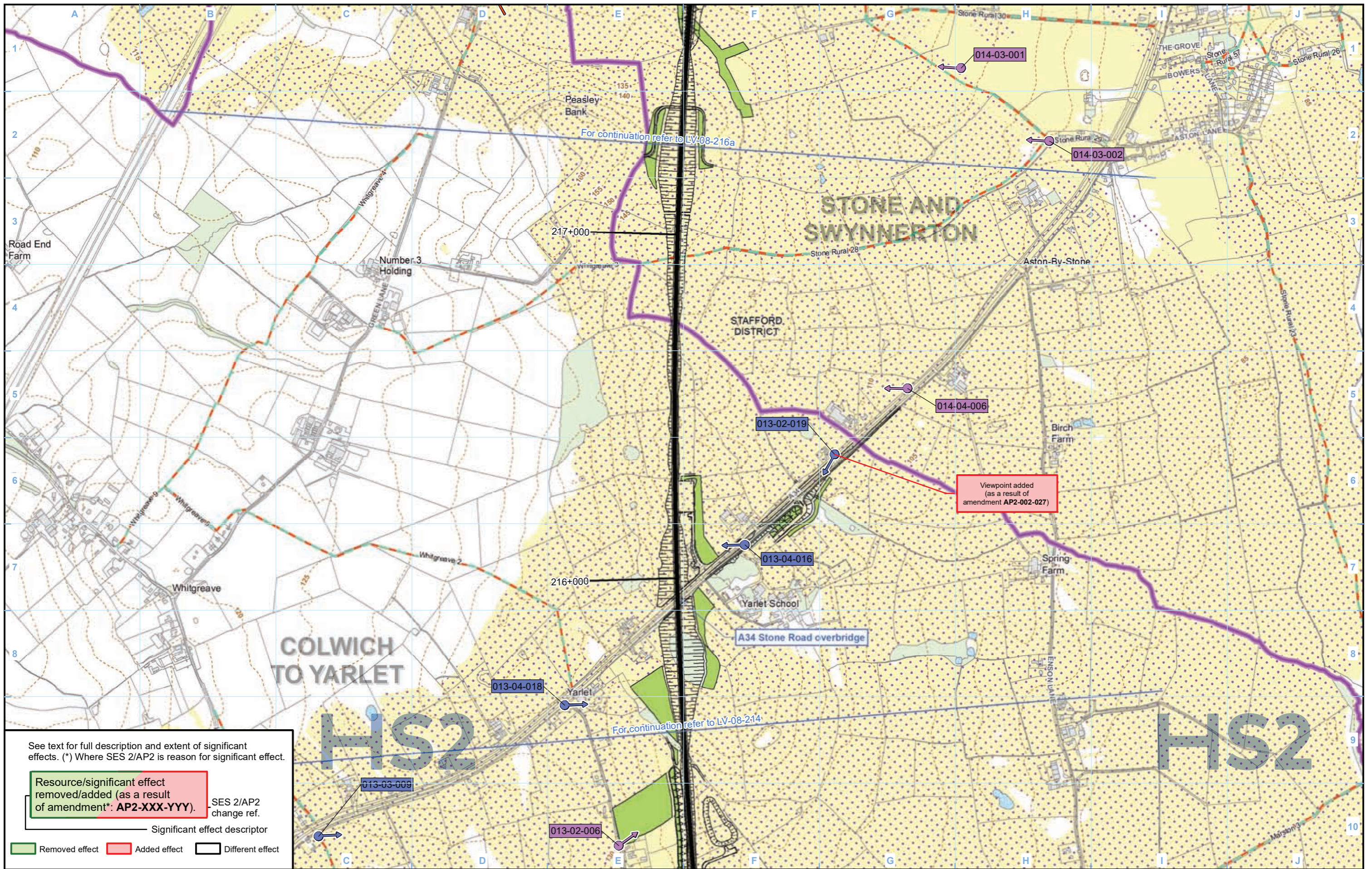
Doc Number: 2PT02-ARP-EV-MAP-000-607115-P03

Scale at A3: 1:10,000

Metres

Date: 17/01/19

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.



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		Embankment
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-215a

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 2: Colwich to Yarlet

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608115-P03

Date: 17/01/19

This page is left intentionally blank

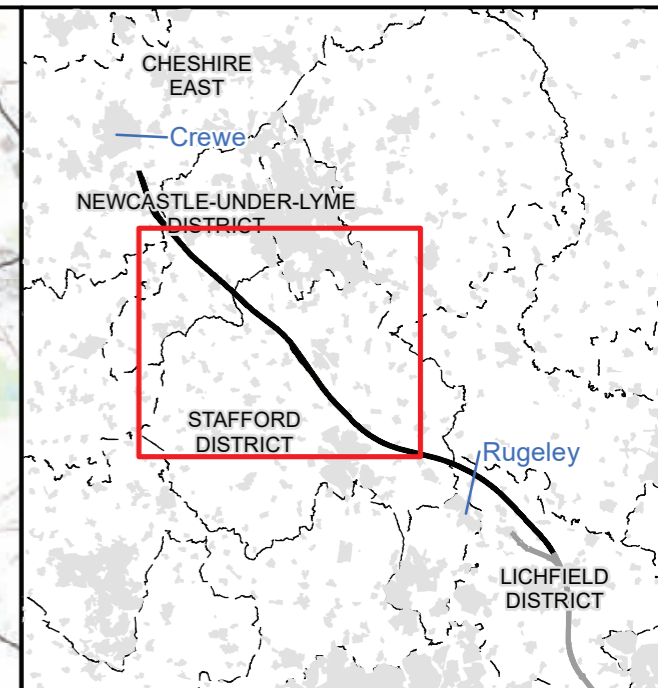
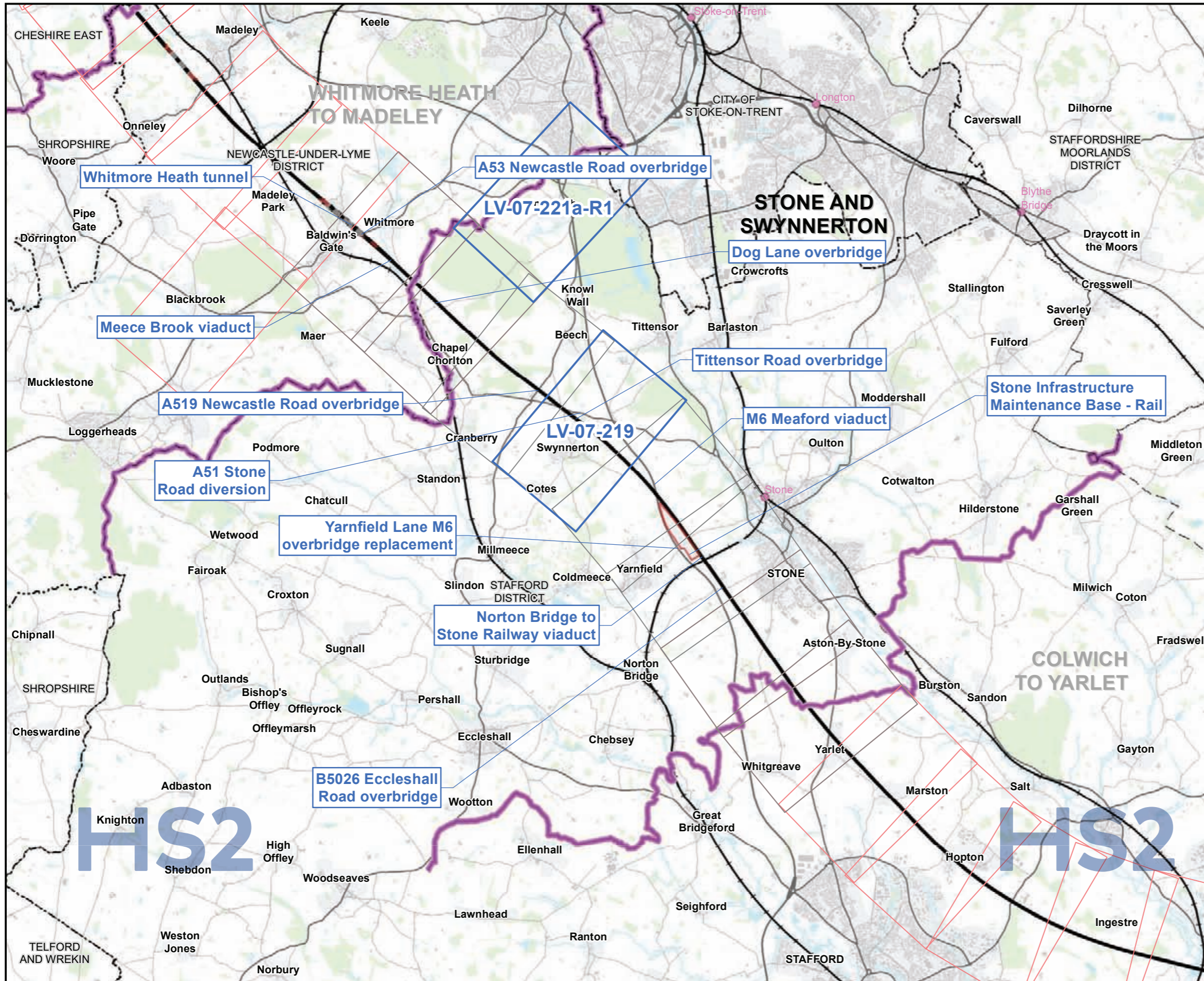
High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

CA3 Stone and Swynnerton

LV-07 - Construction Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints

LV-08 - Operational Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints



Map Series Information:
 Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-07-INDEX-CA3
Map Name	Index Map of: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 3: Stone and Swynnerton

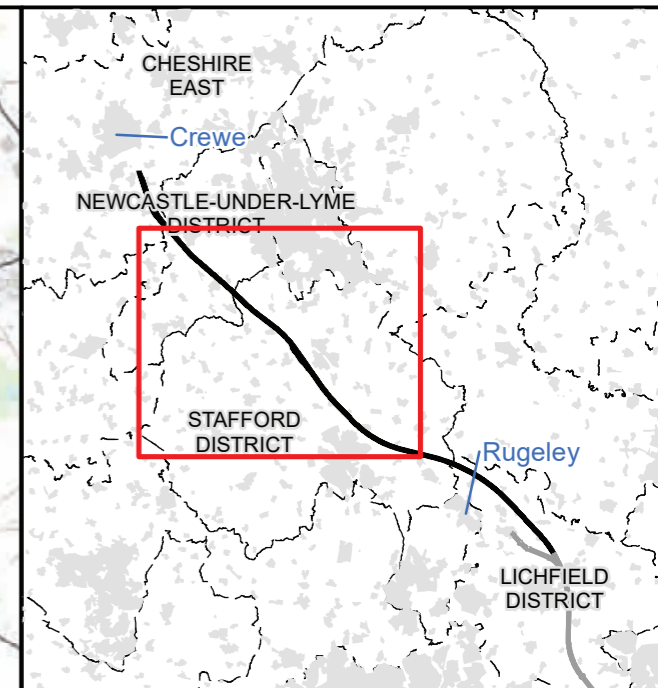
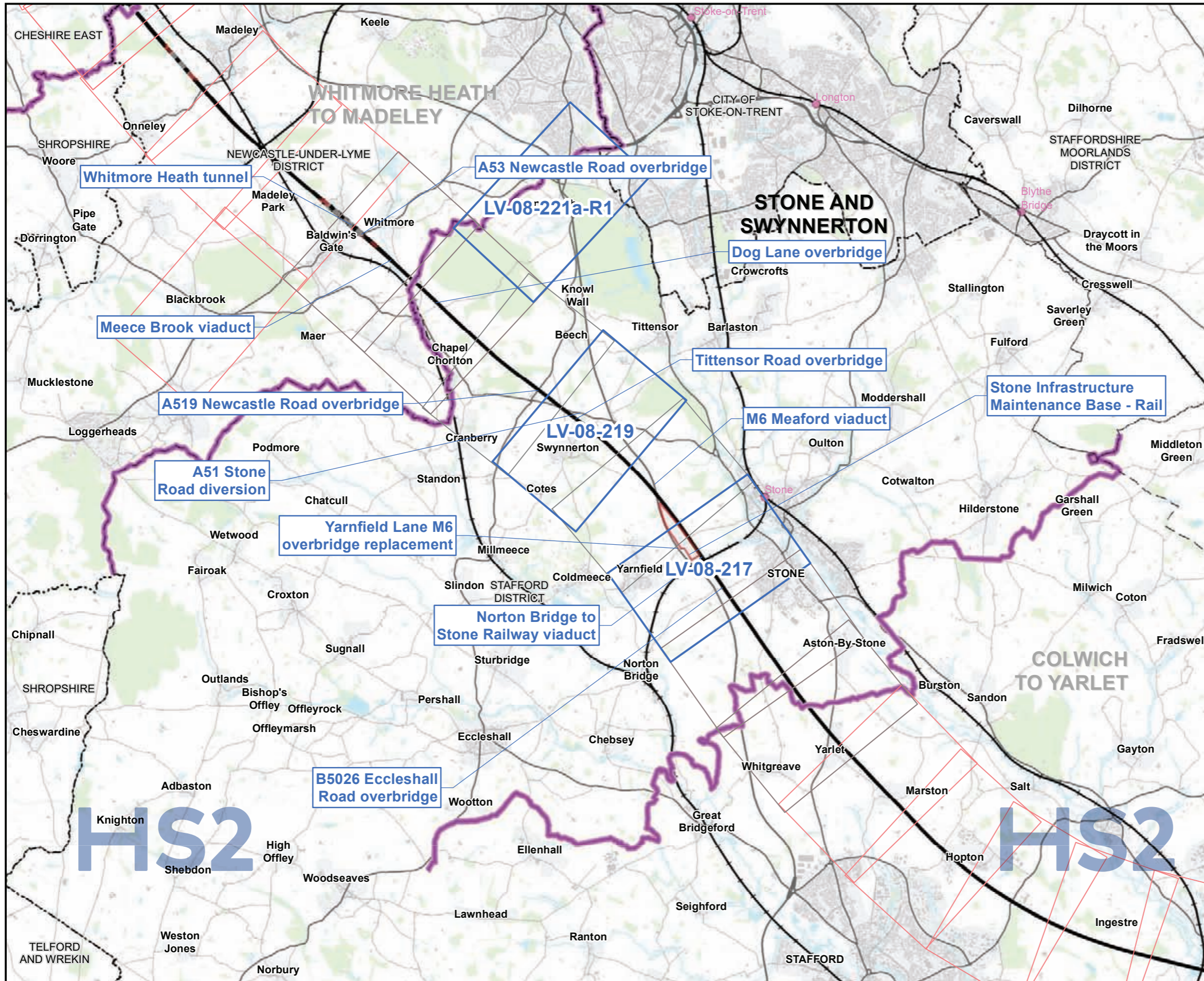
HS2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
 Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:90,000

© Crown copyright and database rights 2018
 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607003-P03 **Date:** 17/01/19



Map Series Information:

Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

- Main Map Legend**
- Route on surface
 - Route in tunnel
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area with amendment
 - Map sheets included in this community area with no amendment
 - Map sheets not included in this community area

Map Number	LV-08-INDEX-CA3
Map Name	Index Map of: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 3: Stone and Swynnerton

HS2

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:90,000

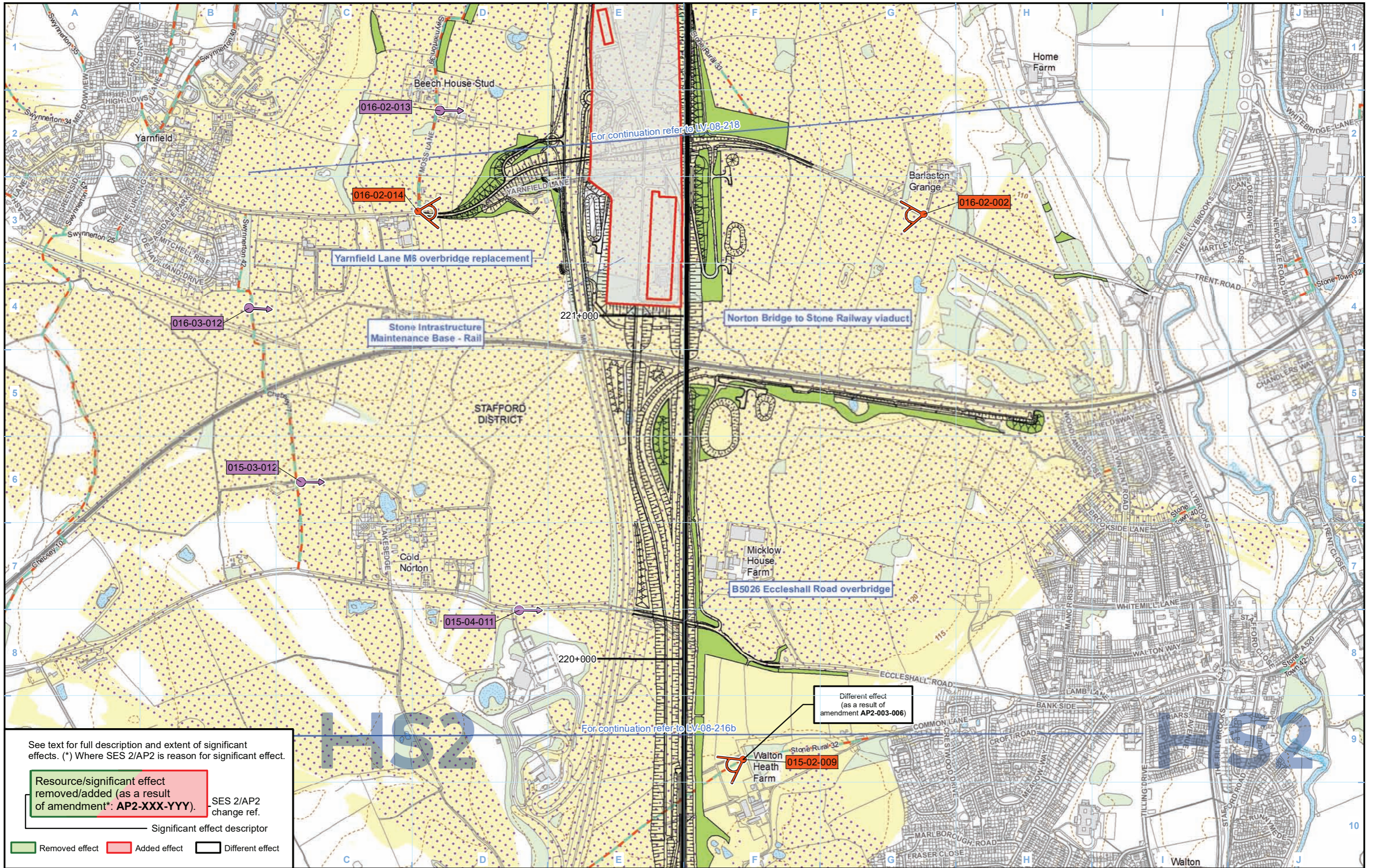
0 1,000 2,000 3,000 4,000 Metres

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608003-P03

Date: 17/01/19

This page is left intentionally blank



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

— Significant effect descriptor

█ Removed effect
 █ Added effect
 Different effect

Legend

<ul style="list-style-type: none"> — Route in tunnel — Route on surface ▭ Depot, station, headhouse or portal building ▭ Community area boundary - - - County boundary - - - District/Borough boundary 	<ul style="list-style-type: none"> — Public Rights of Way (PRoW) - - - 5m contours ▭ Water body ▭ Existing woodland and tree belts ▭ Proposed tree planting ▭ Cannock Chase Area of Outstanding Natural Beauty (AONB) 	<ul style="list-style-type: none"> ▭ ZTV operation year 1 ▭ ZTV operation year 15 ▭ 001-1-001 Non significantly affected viewpoint number ▭ 001-1-001 Significantly affected viewpoint number ▭ 001-1-001 Photomontage viewpoint number 	<ul style="list-style-type: none"> ⬆ Non significantly affected viewpoint ⬆ Significantly affected viewpoint ⬆ Photomontage location 	<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
--	---	--	---	---

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-217

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 3: Stone and Swynnerton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018. OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608117-P03

Date: 17/01/19

Scale at A3: 1:10,000

0 100 200 300 400 Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- Non significantly affected viewpoint number
- Significantly affected viewpoint number
- Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-219

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 3: Stone and Swynnerton

HS2

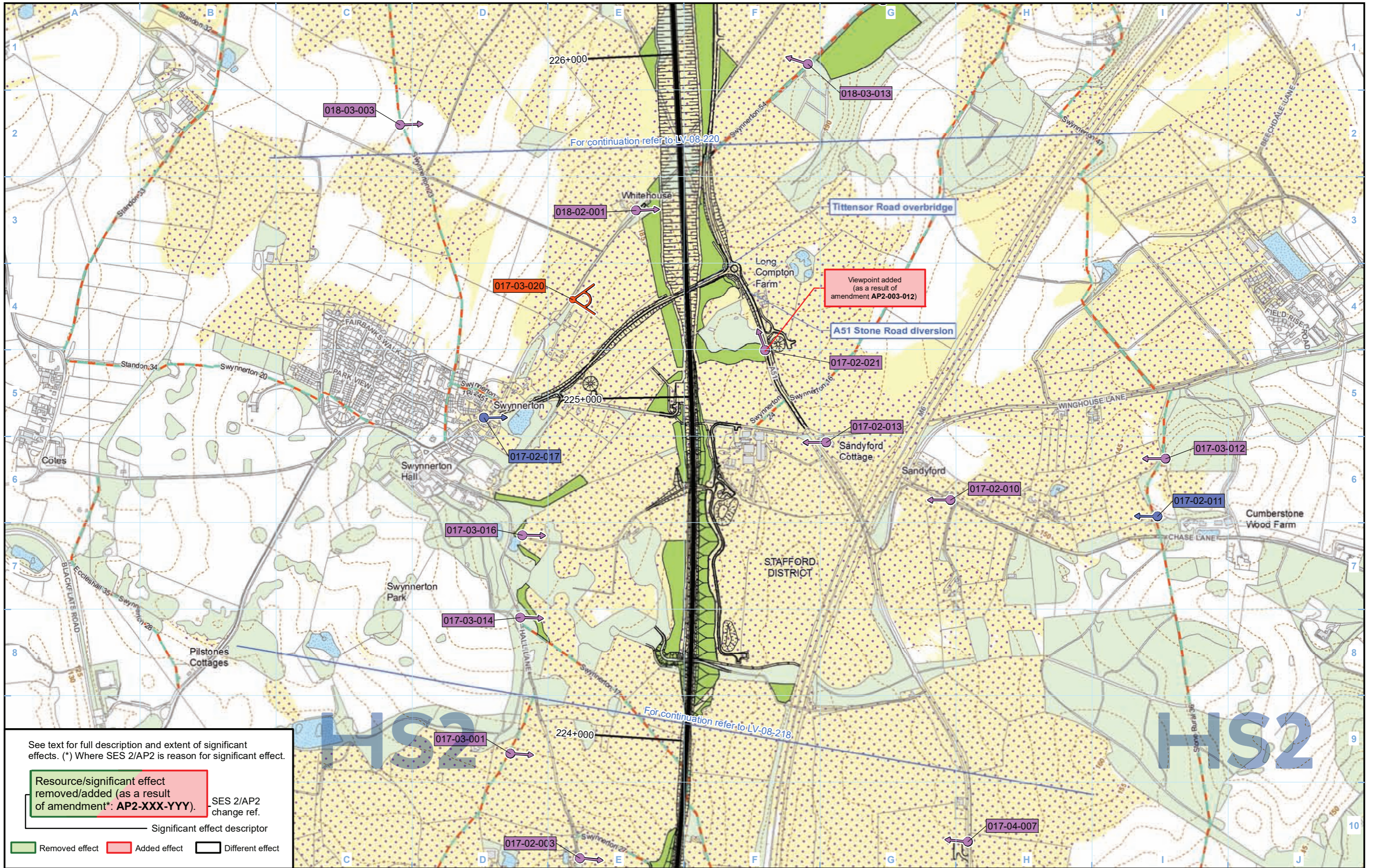
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607119-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		Embankment
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-219

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 3: Stone and Swynnerton

HS2

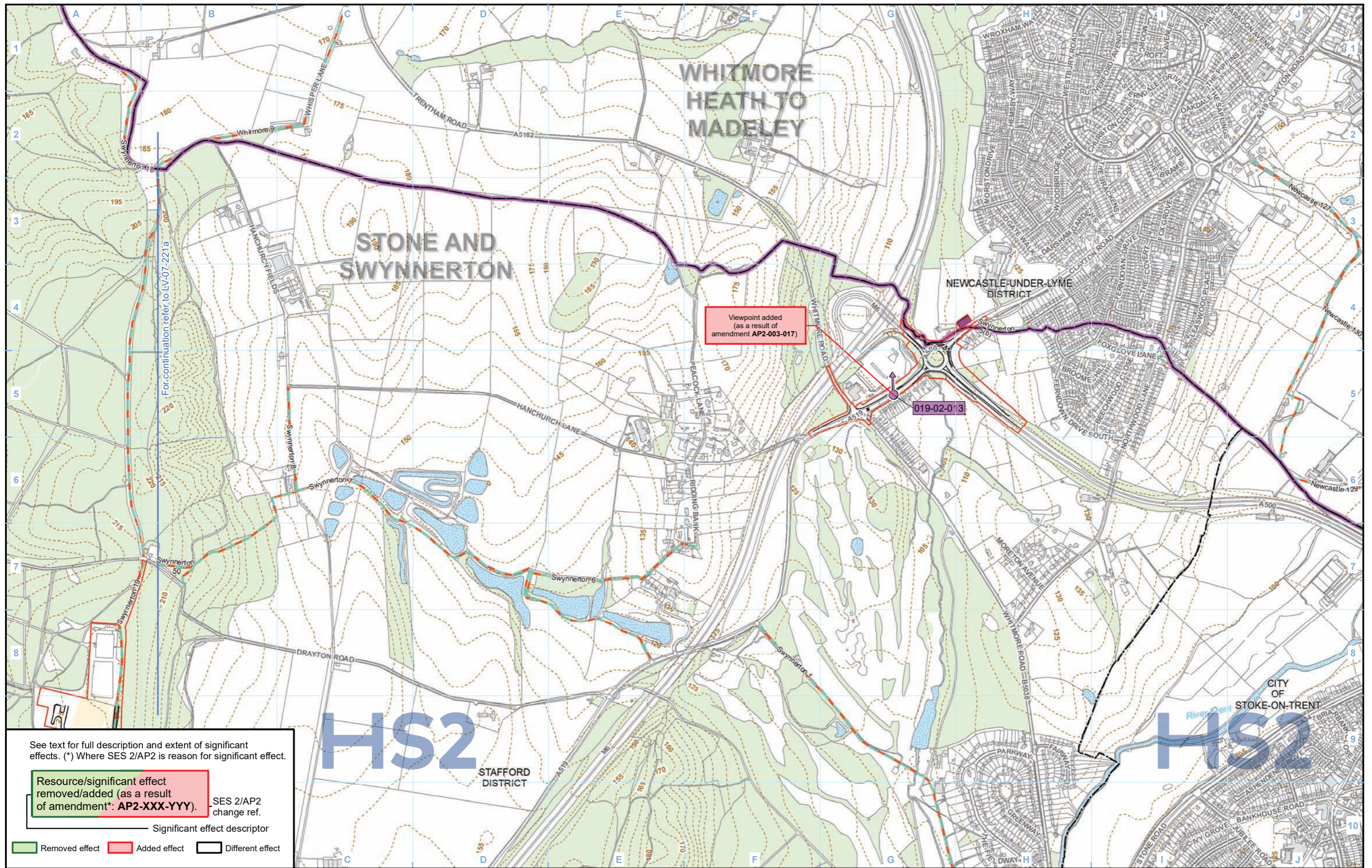
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608119-P03

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks: Embankment, Cutting
- Non engineering earthworks: Embankment, Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-221a-R1

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 3: Stone and Swynnerton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

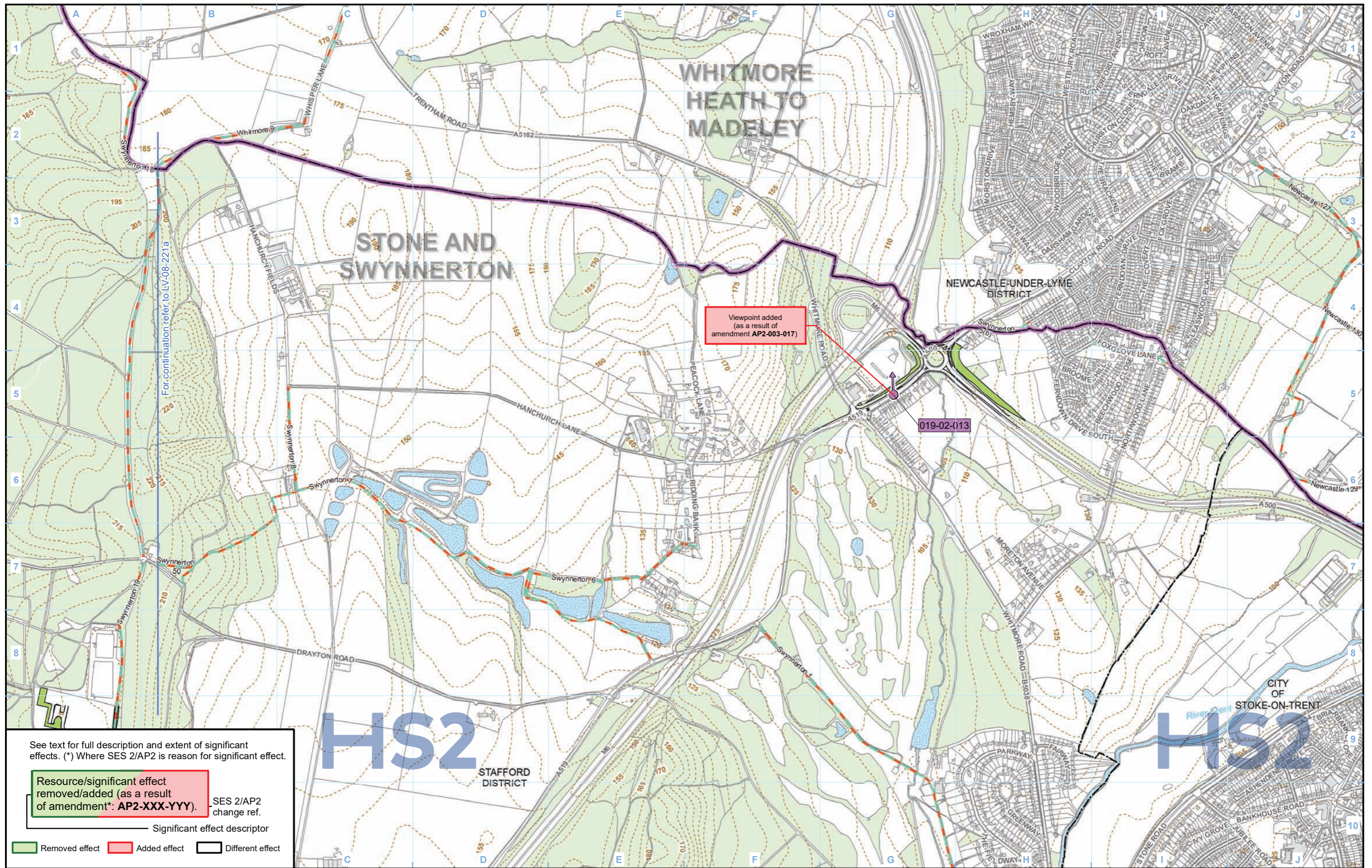
© Crown copyright and database rights 2018. OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607221-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		Embankment
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-221a-R1

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 3: Stone and Swynnerton

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018. OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608221-P03

Scale at A3: 1:10,000

Date: 17/01/19

This page is left intentionally blank

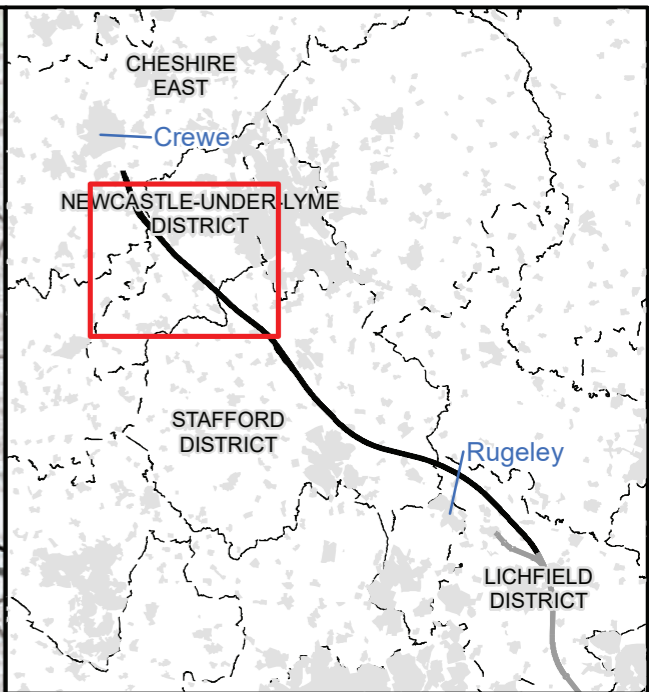
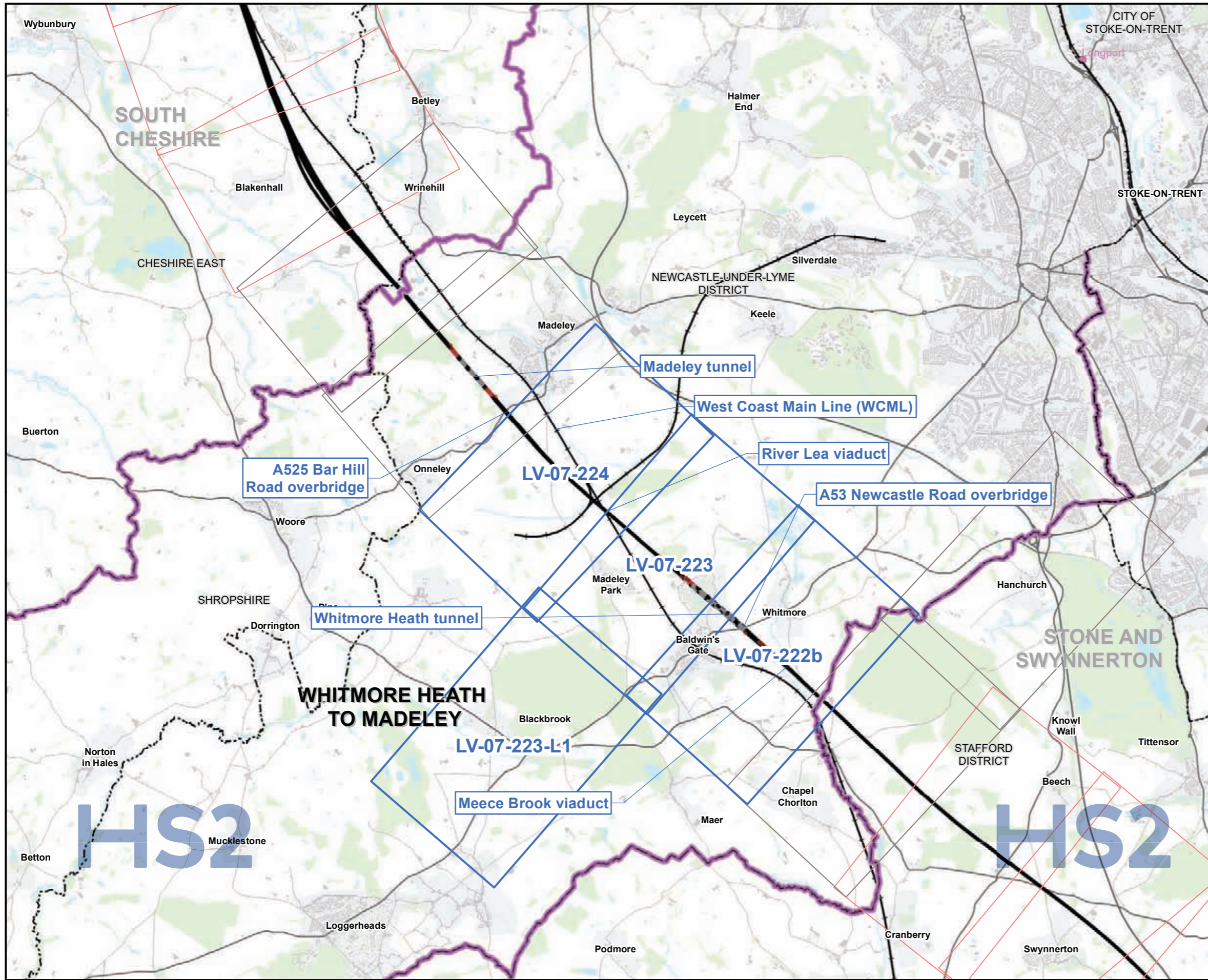
High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

CA4 Whitmore Heath to Madeley

LV-07 - Construction Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints

LV-08 - Operational Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints



Map Series Information:

Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-07-INDEX-CA4
Map Name	Index Map of: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 4: Whitmore Heath to Madeley

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

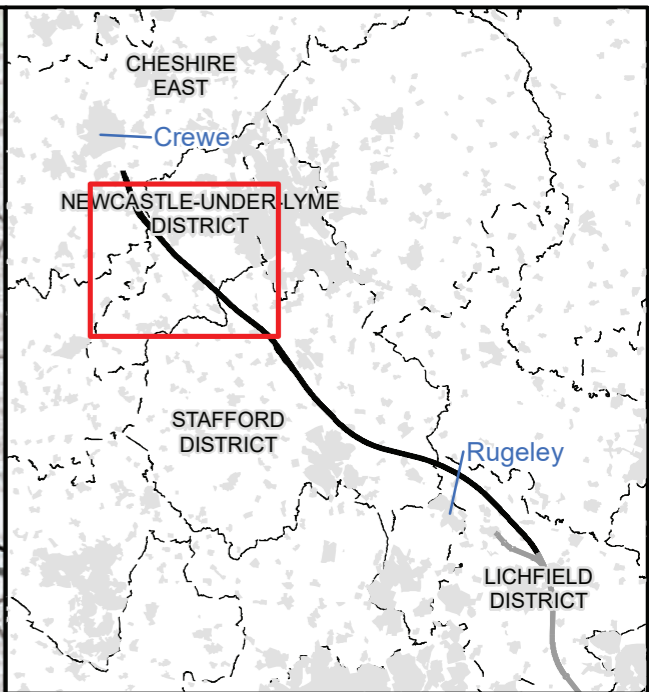
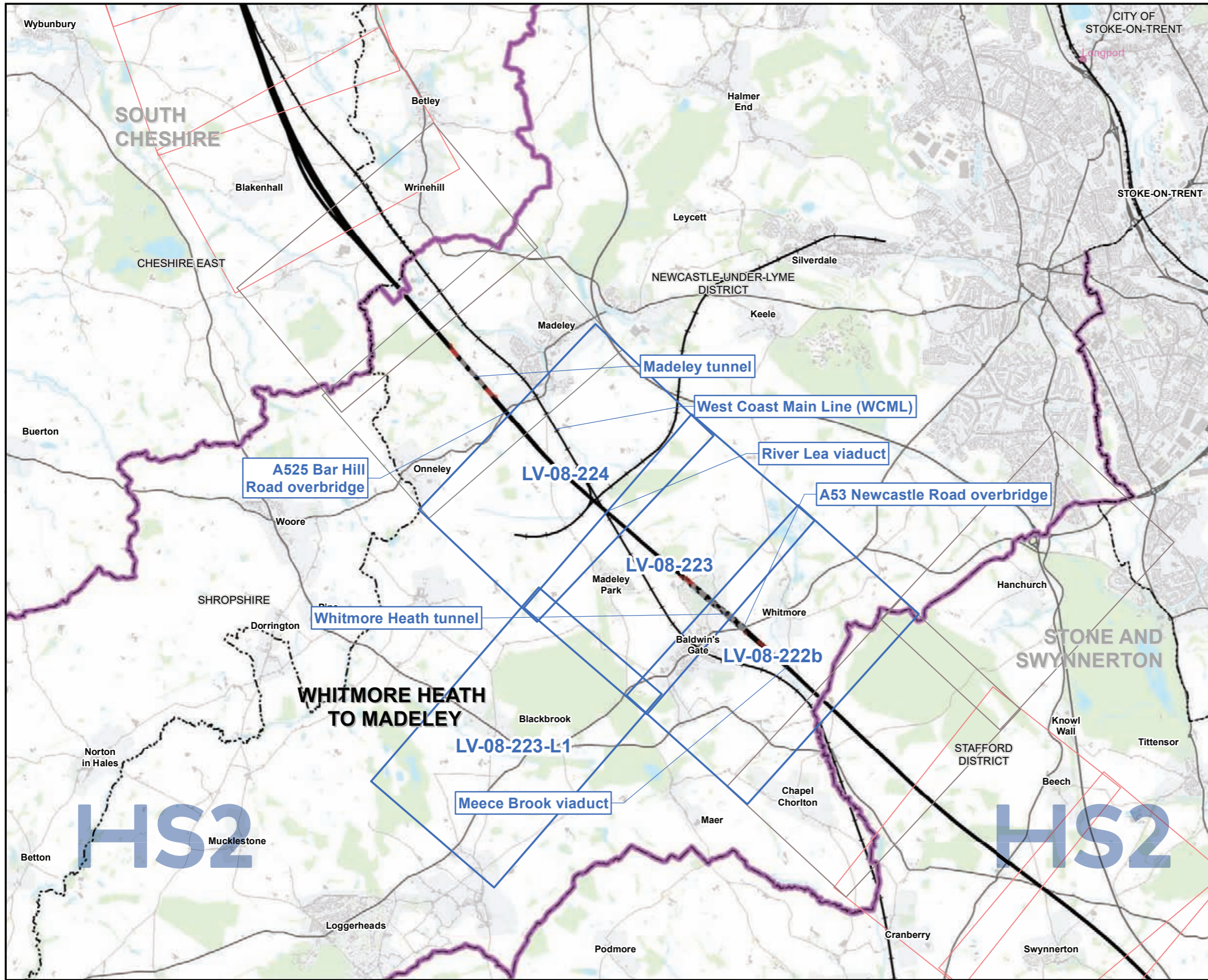
© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607004-P03

Scale at A3: 1:60,000

Metres

Date: 17/01/19



Map Series Information:

Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-08-INDEX-CA4
Map Name	Index Map of: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 4: Whitmore Heath to Madeley

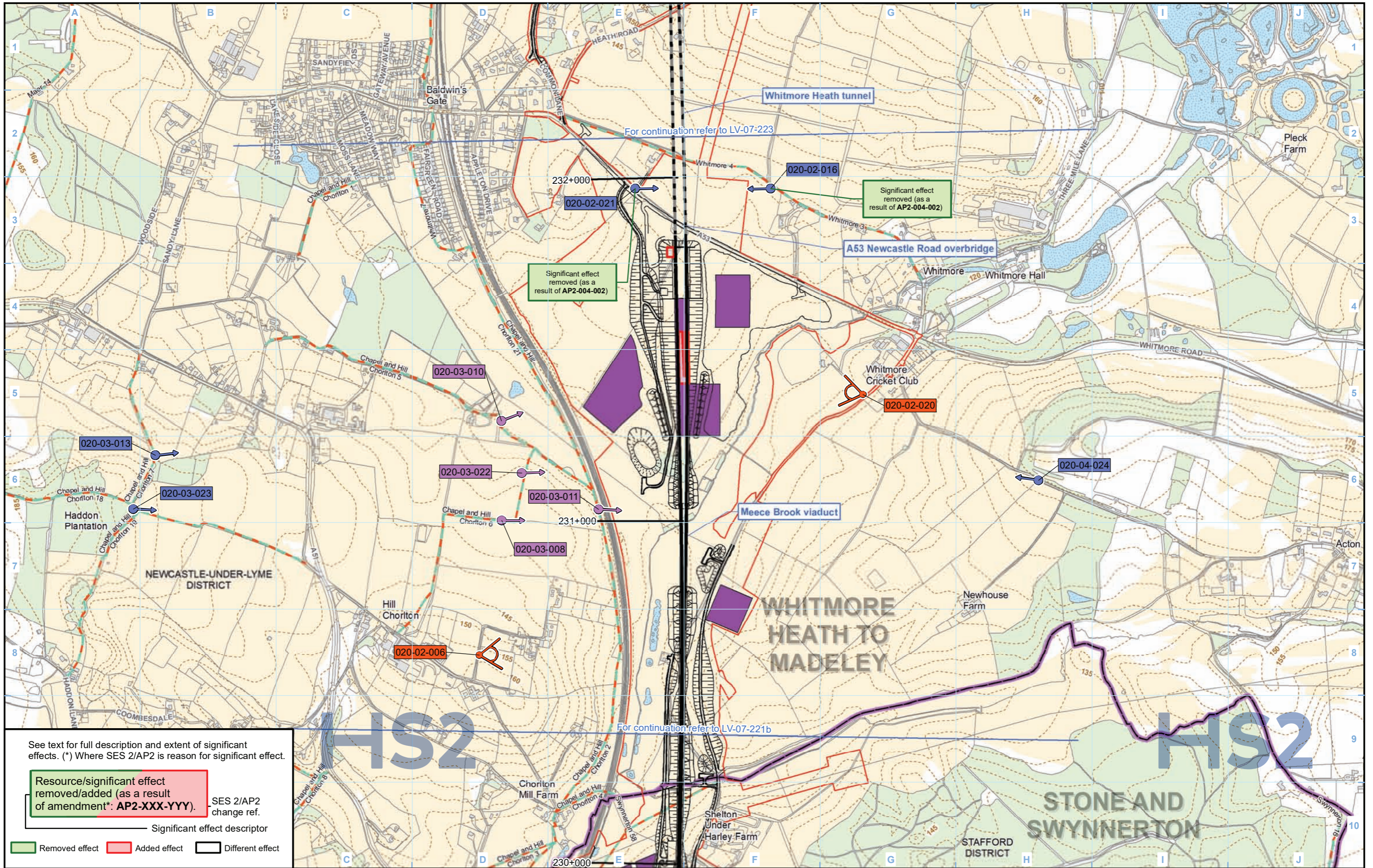
HS2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:60,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608004-P03 **Date: 17/01/19**



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- Non significantly affected viewpoint number
- Significantly affected viewpoint number
- Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-222b

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 4: Whitmore Heath to Madeley

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

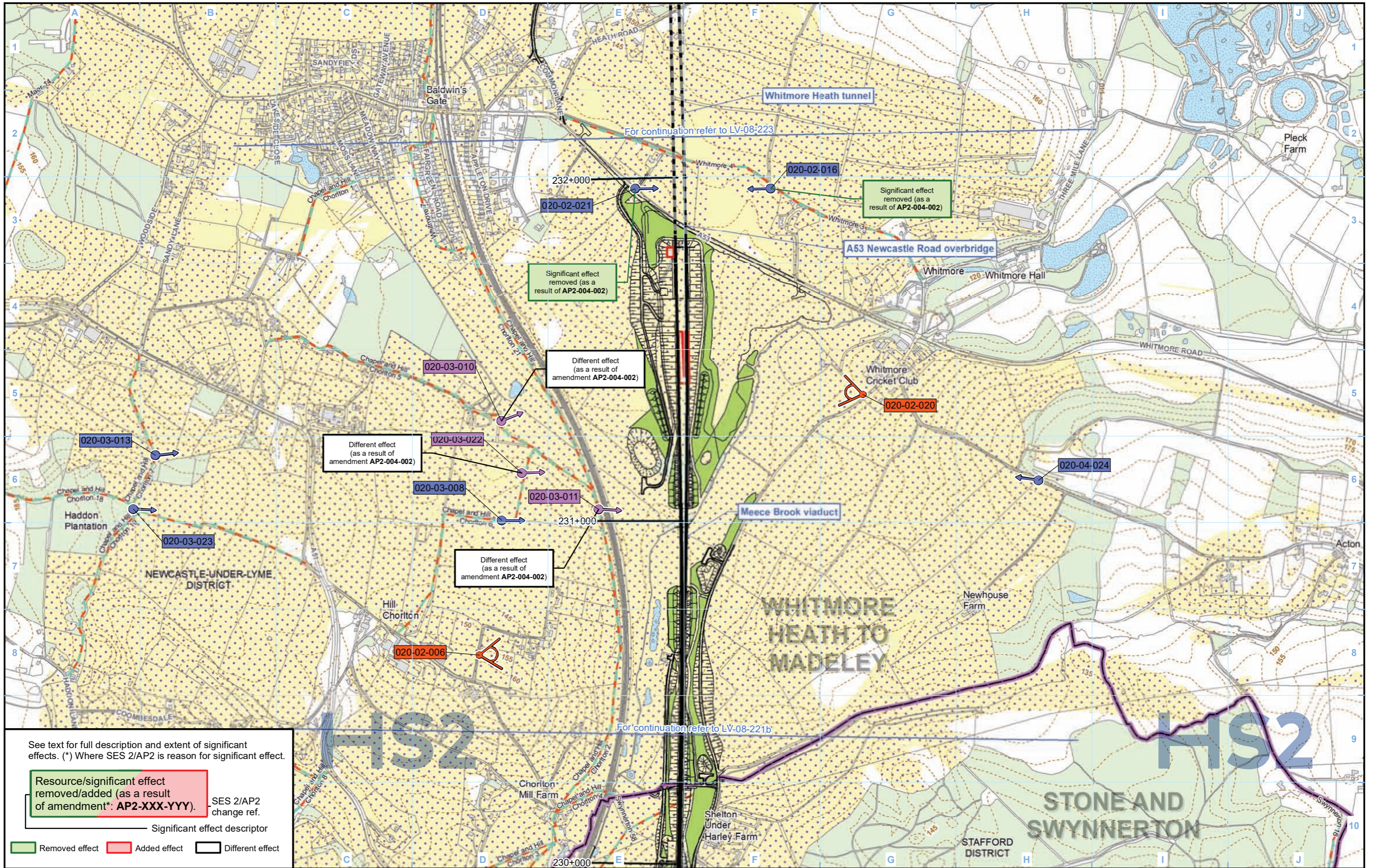
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607222-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY).	SES 2/AP2 change ref.
Significant effect descriptor	
Removed effect	Added effect
Different effect	

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks: Embankment
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Engineering earthworks: Cutting
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Non engineering earthworks: Embankment
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks: Cutting
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			

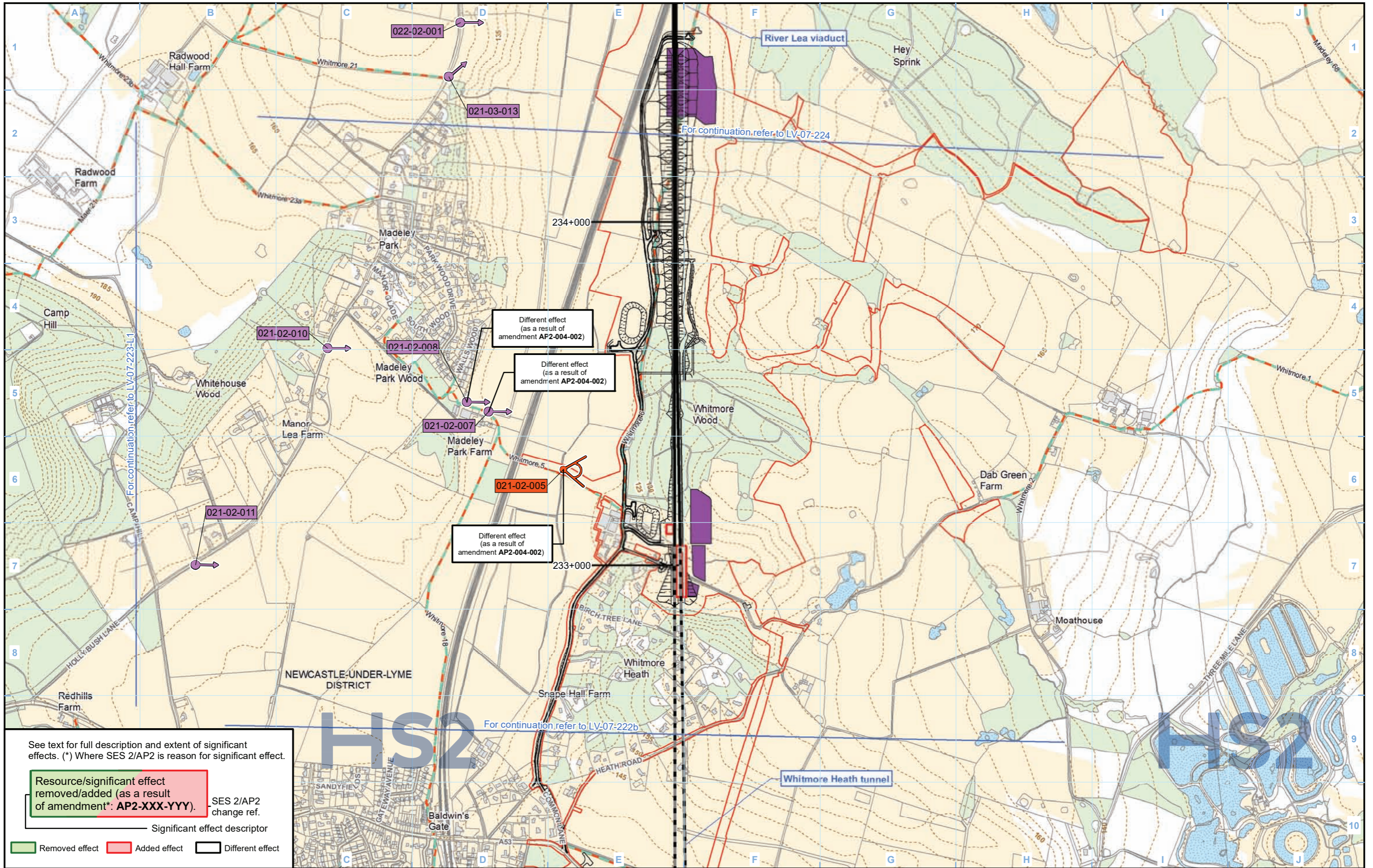
Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks: Embankment
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Engineering earthworks: Cutting
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Non engineering earthworks: Embankment
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks: Cutting
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number	LV-08-222b
Map Name	Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
Community Area 4: Whitmore Heath to Madeley	

HS2	Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.	Scale at A3: 1:10,000	
	© Crown copyright and database rights 2018 OS 100049190		
Doc Number: 2PT02-ARP-EV-MAP-000-608222-P03		Date: 17/01/19	



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (Green box) Added effect (Red box) Different effect (Black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-223

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 4: Whitmore Heath to Madeley

HS2

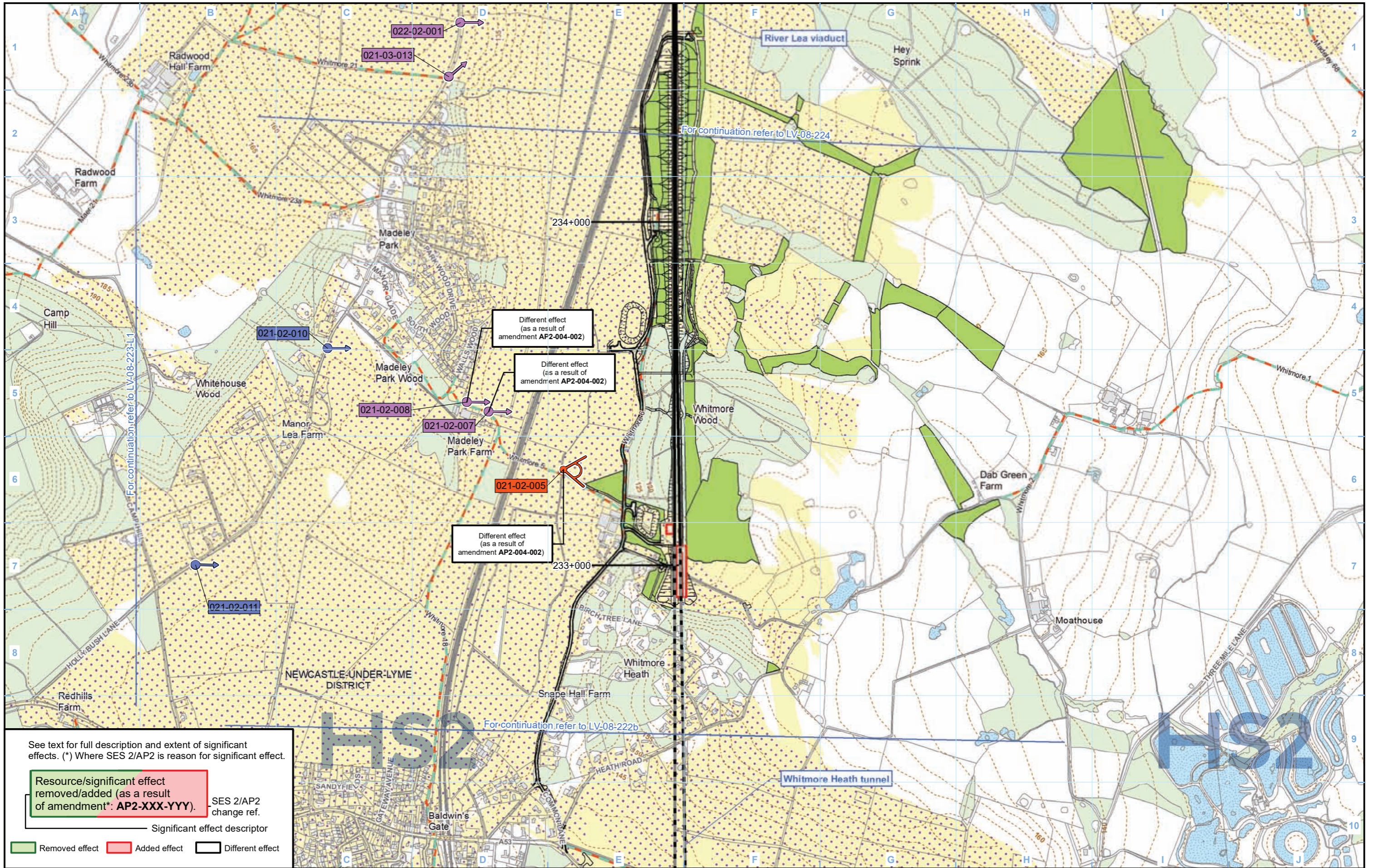
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607123-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (Green box) Added effect (Red box) Different effect (Black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- 001-1-001 Photomontage location
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-223

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 4: Whitmore Heath to Madeley

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

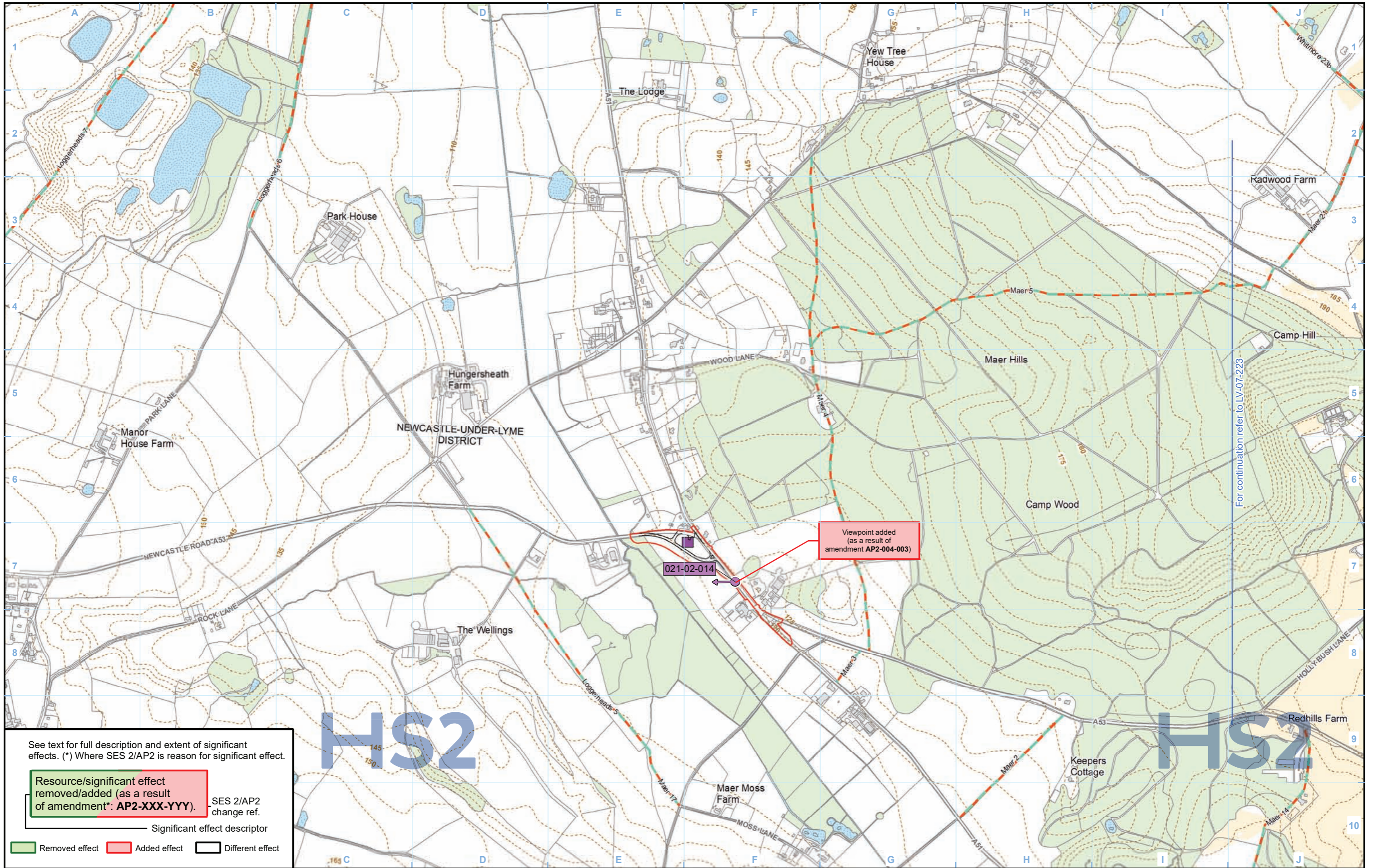
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608123-P03

Date: 17/01/19

Scale at A3: 1:10,000

0 100 200 300 400 Metres



For continuation refer to LV-07-223

HS2

HS2

See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

— Significant effect descriptor

█ Removed effect
 █ Added effect
 Different effect

Legend

Legend

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-223-L1

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 4: Whitmore Heath to Madeley

HS2

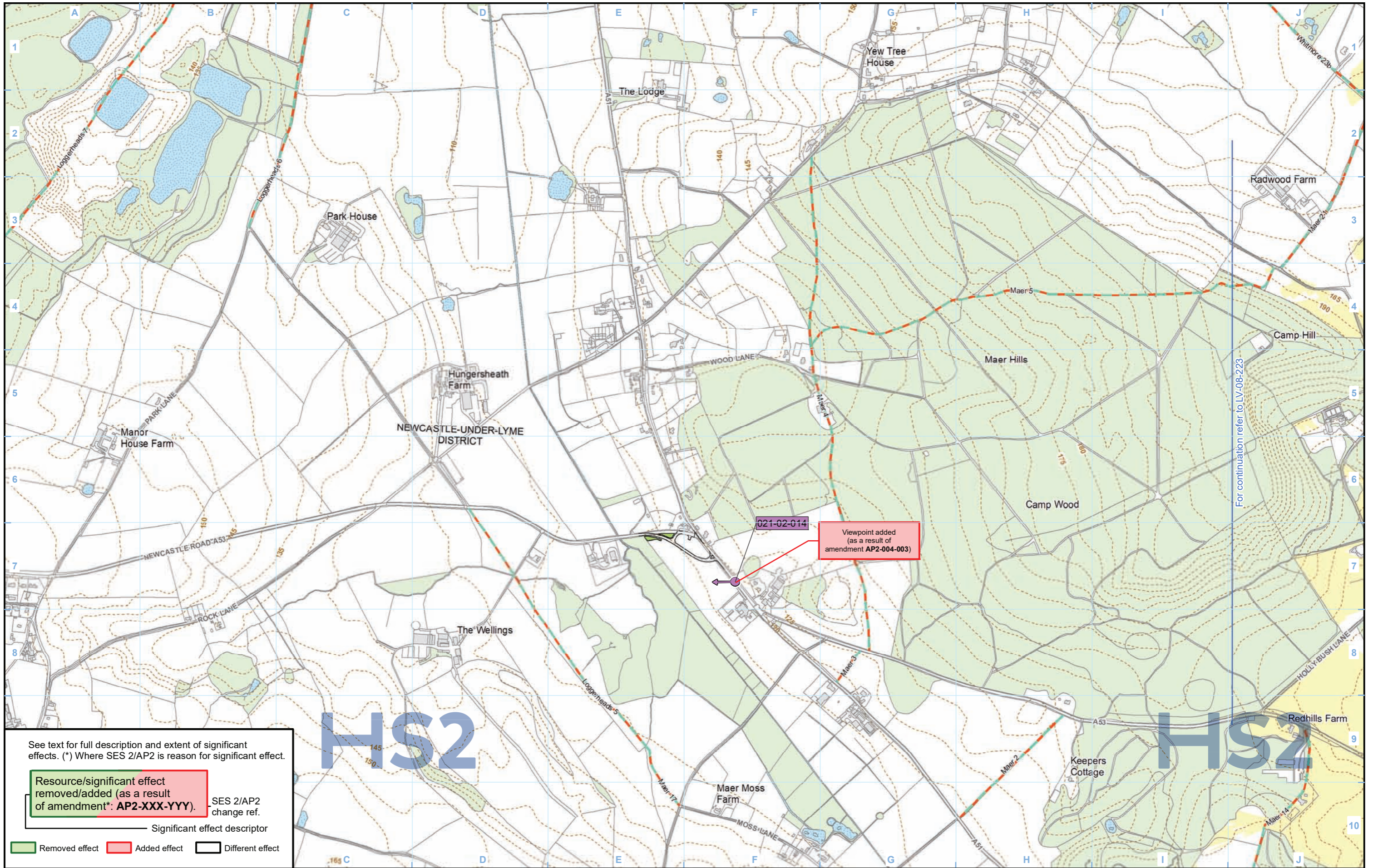
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607223-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

HS2

HS2

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting
- Non significantly affected viewpoint
- Significantly affected viewpoint

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-223-L1

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 4: Whitmore Heath to Madeley

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

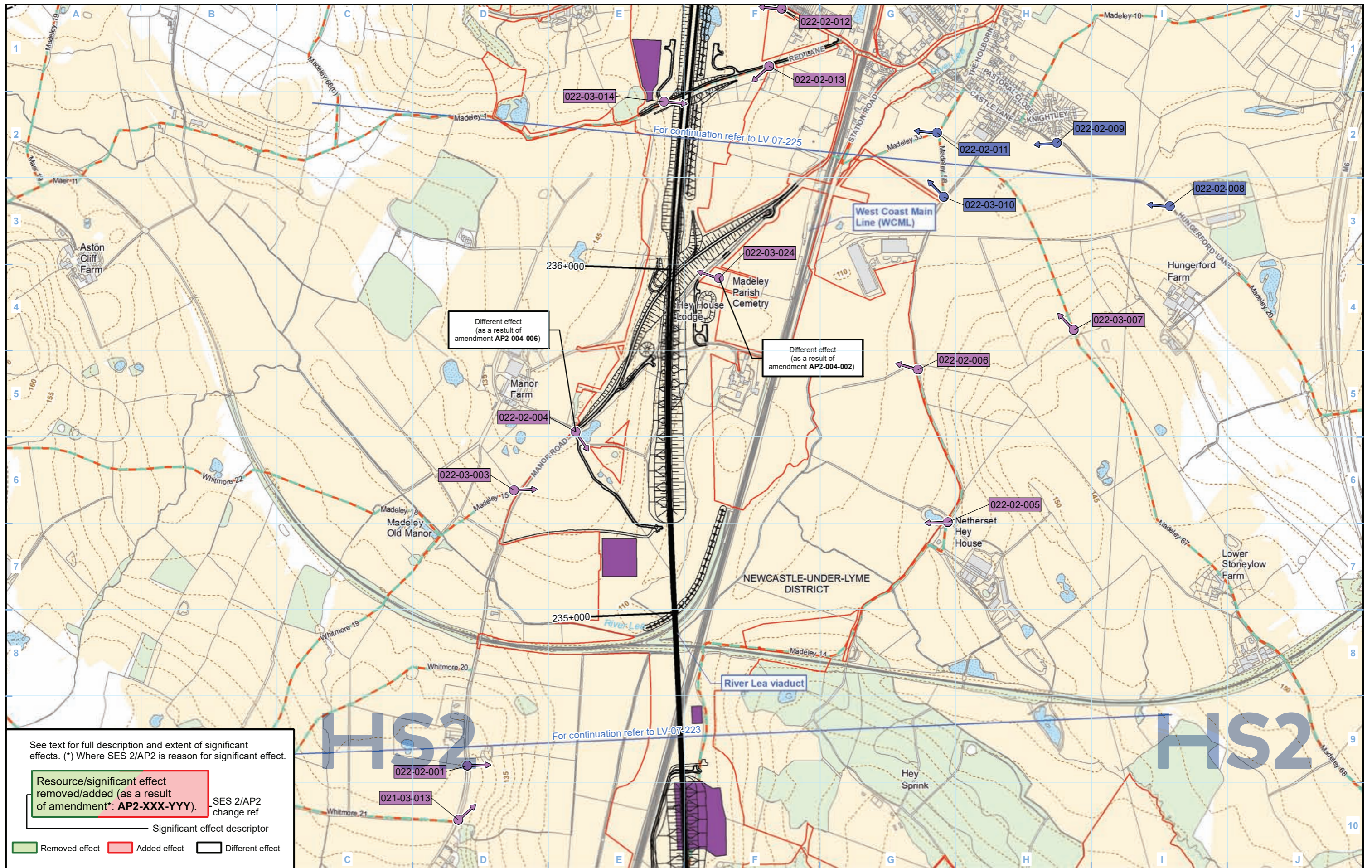
Doc Number: 2PT02-ARP-EV-MAP-000-608223-P03

Date: 17/01/19

Scale at A3: 1:10,000

0 100 200 300 400 Metres

For continuation refer to LV-08-223



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-224

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 4: Whitmore Heath to Madeley

HS2

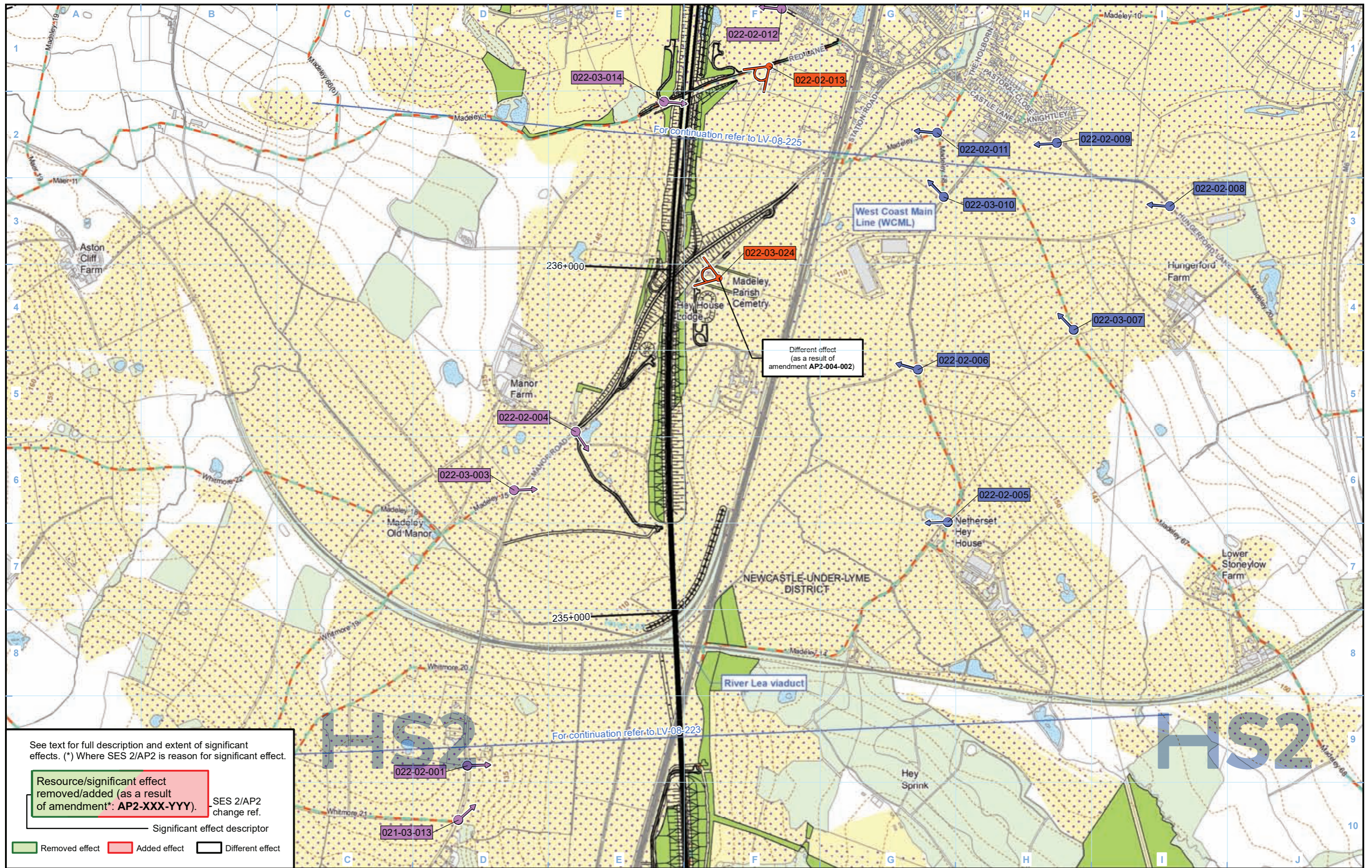
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607124-P03

Date: 17/01/19

Scale at A3: 1:10,000



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (Green box) Added effect (Red box) Different effect (Black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- 001-1-001 Photomontage location
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-224

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 4: Whitmore Heath to Madeley

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608124-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres

This page is left intentionally blank

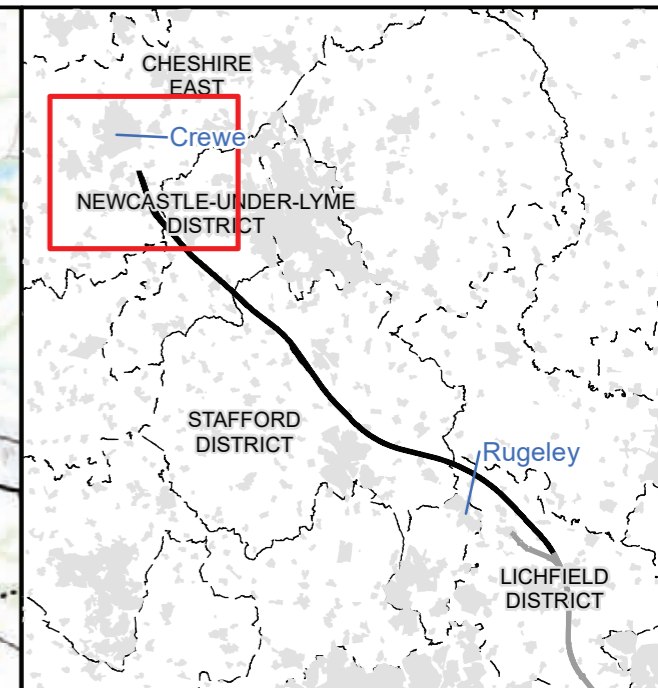
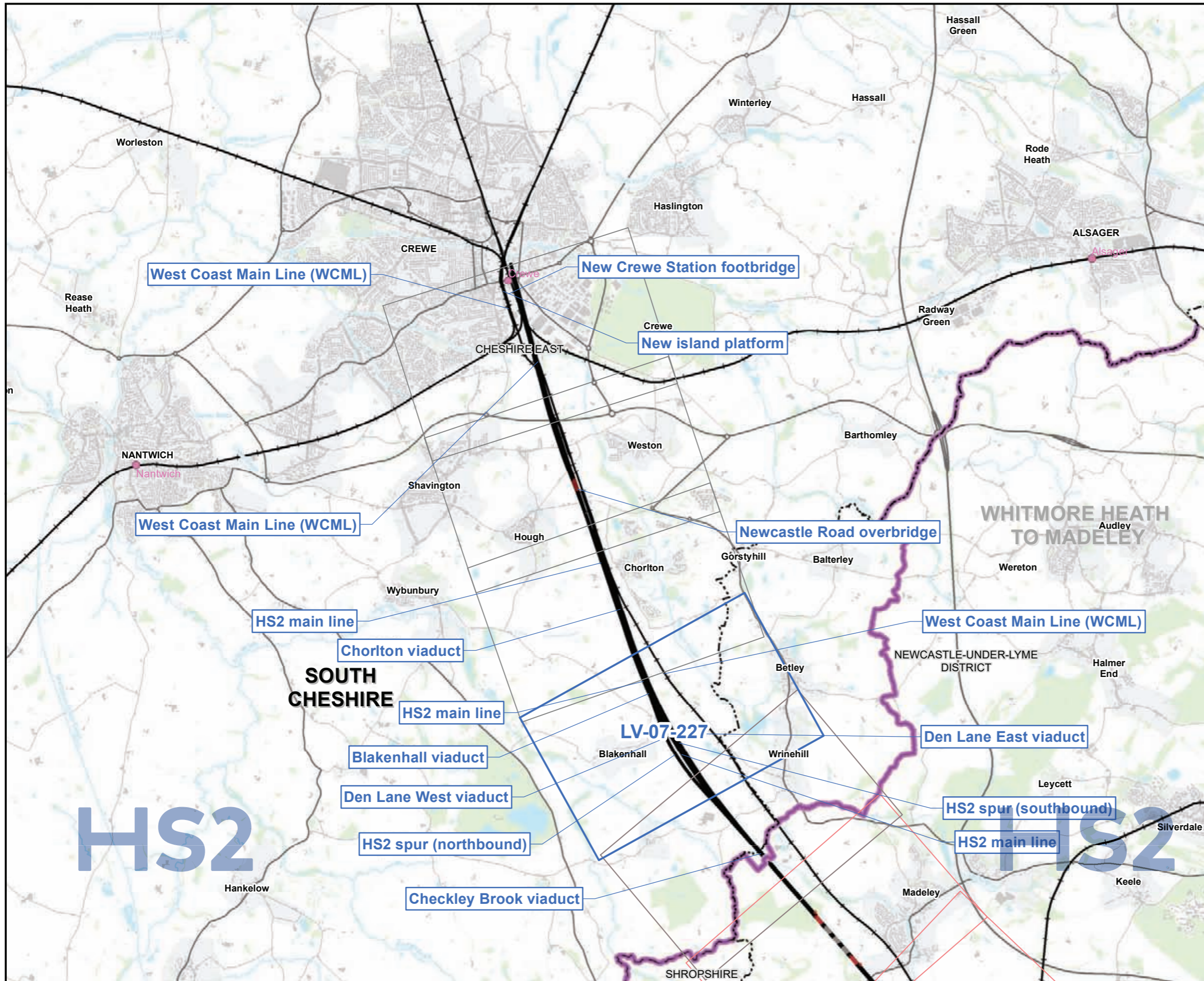
High Speed Rail (West Midlands - Crewe)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

CA5 South Cheshire

LV-07 - Construction Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints

LV-08 - Operational Phase Zone of Theoretical Visibility (ZTV)
and Viewpoints



Map Series Information:

Maps showing the construction phase zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

Route on surface	Map sheets included in this community area with amendment
Route in tunnel	Map sheets included in this community area with no amendment
Depot, station, headhouse or portal building	Map sheets not included in this community area
Community area boundary	
Existing railway station	
County boundary	
District/Borough boundary	

Map Number	LV-07-INDEX-CA5
Map Name	Index Map of: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 5: South Cheshire

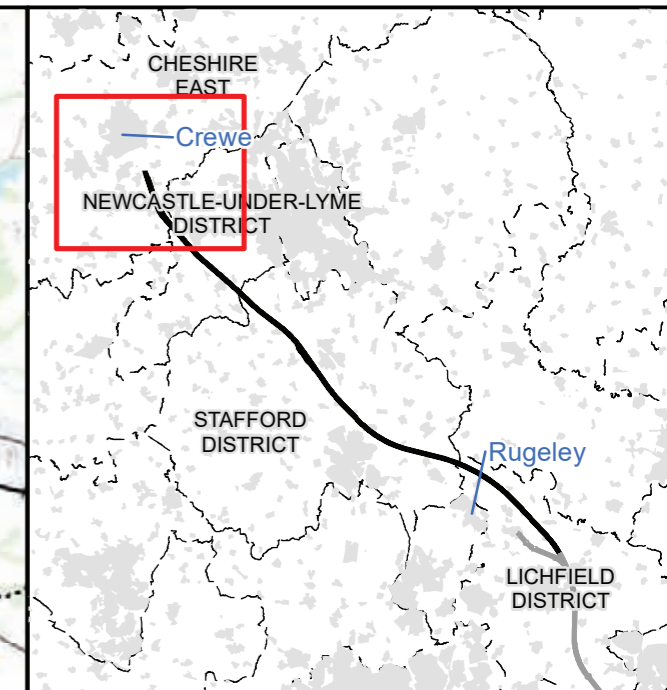
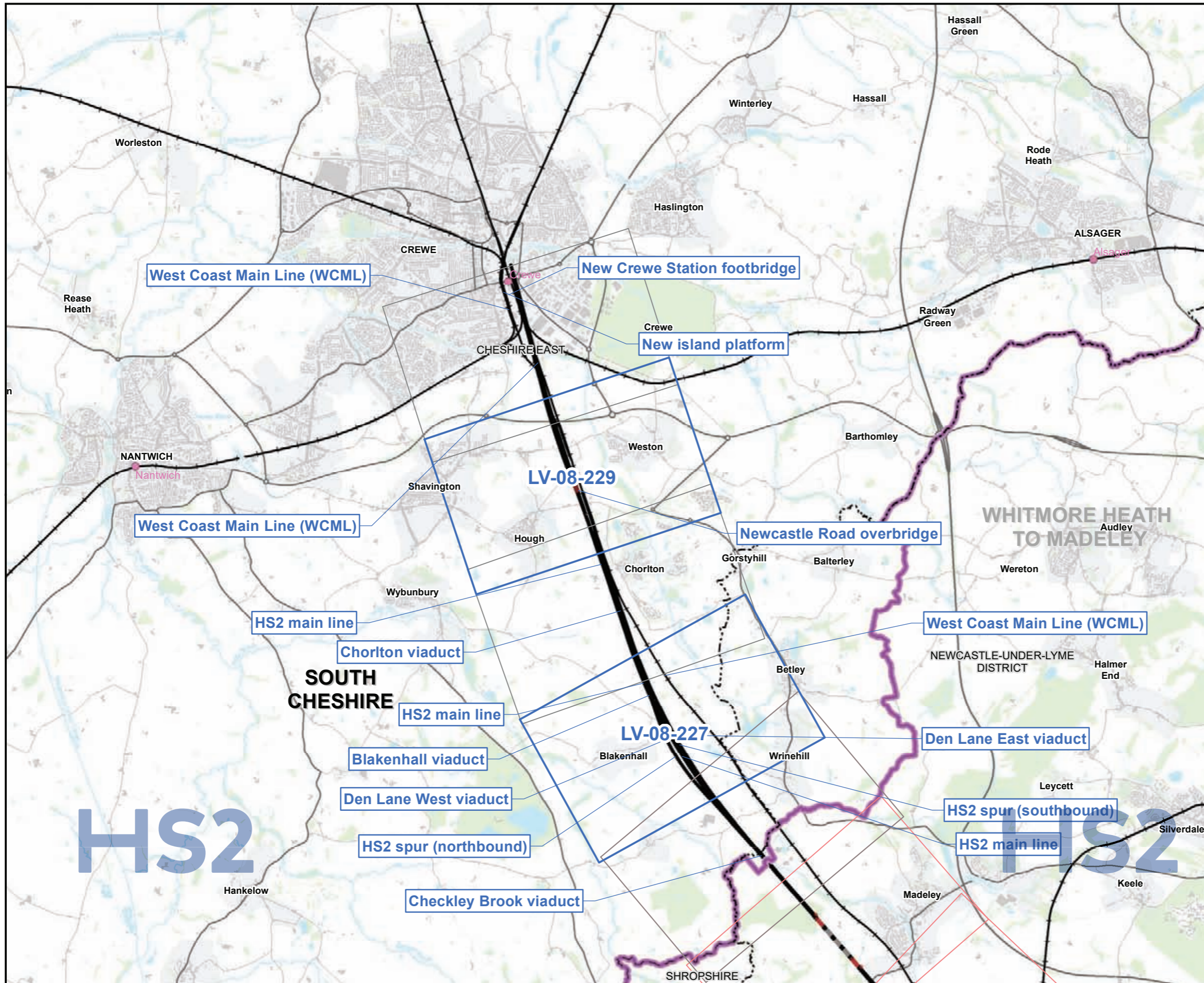
HS2 HST Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:60,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607005-P03 Date: 17/01/19



Map Series Information:

Maps showing the operational phase year one and year fifteen zone of theoretical visibility (ZTV) and the viewpoint locations from which the visual assessment of the AP2 revised scheme has been undertaken. (All significant and non-significant photomontage locations are shown).

Main Map Legend

- Route on surface
- Route in tunnel
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area with amendment
- Map sheets included in this community area with no amendment
- Map sheets not included in this community area

Map Number	LV-08-INDEX-CA5
Map Name	Index Map of: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES
	Community Area 5: South Cheshire

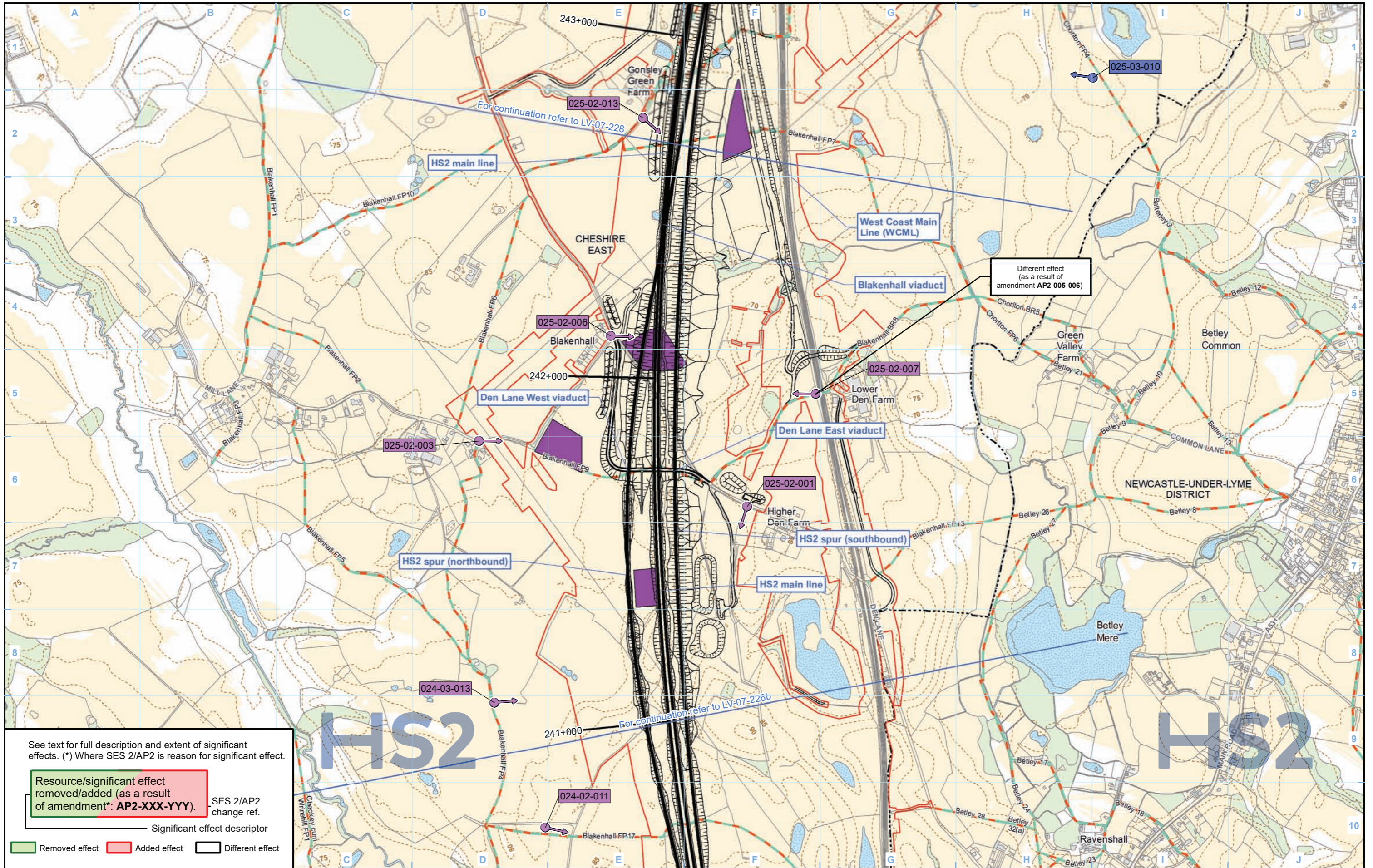
HS2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:60,000

© Crown copyright and database rights 2018
OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608005-P03 **Date:** 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (green box) Added effect (red box) Different effect (black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV construction
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-07-227

Map Name: Construction Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 5: South Cheshire

HS2

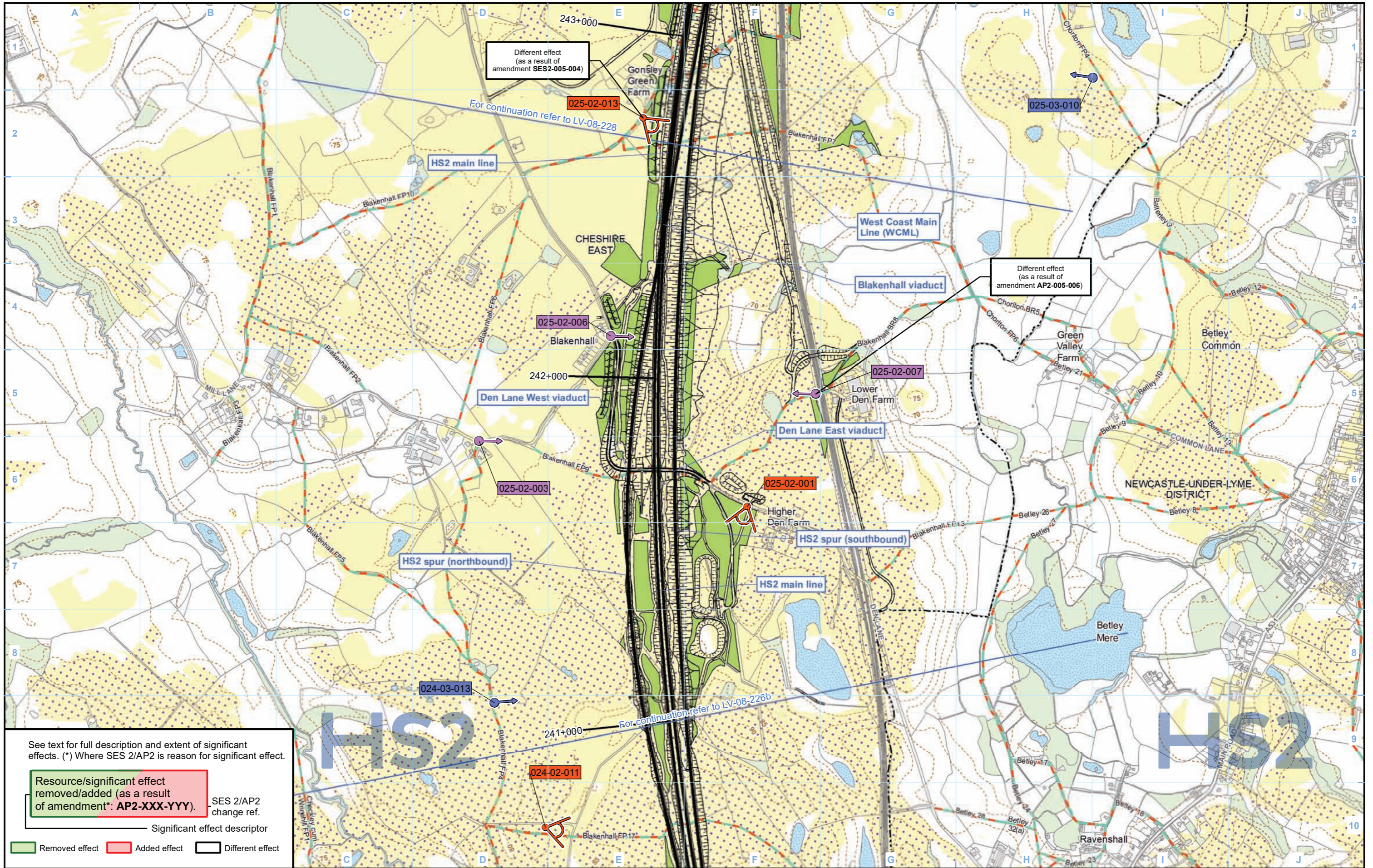
Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-607127-P03

Scale at A3: 1:10,000

Date: 17/01/19



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect Added effect Different effect

Legend

Route in tunnel	Public Rights of Way (PRoW)	ZTV operation year 1	Non significantly affected viewpoint	Engineering earthworks:
Route on surface	5m contours	ZTV operation year 15	Significantly affected viewpoint	Embankment
Depot, station, headhouse or portal building	Water body	001-1-001 Non significantly affected viewpoint number	Photomontage location	Cutting
Community area boundary	Existing woodland and tree belts	001-1-001 Significantly affected viewpoint number		Non engineering earthworks:
County boundary	Proposed tree planting	001-1-001 Photomontage viewpoint number		Embankment
District/Borough boundary	Cannock Chase Area of Outstanding Natural Beauty (AONB)			Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-227

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 5: South Cheshire

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

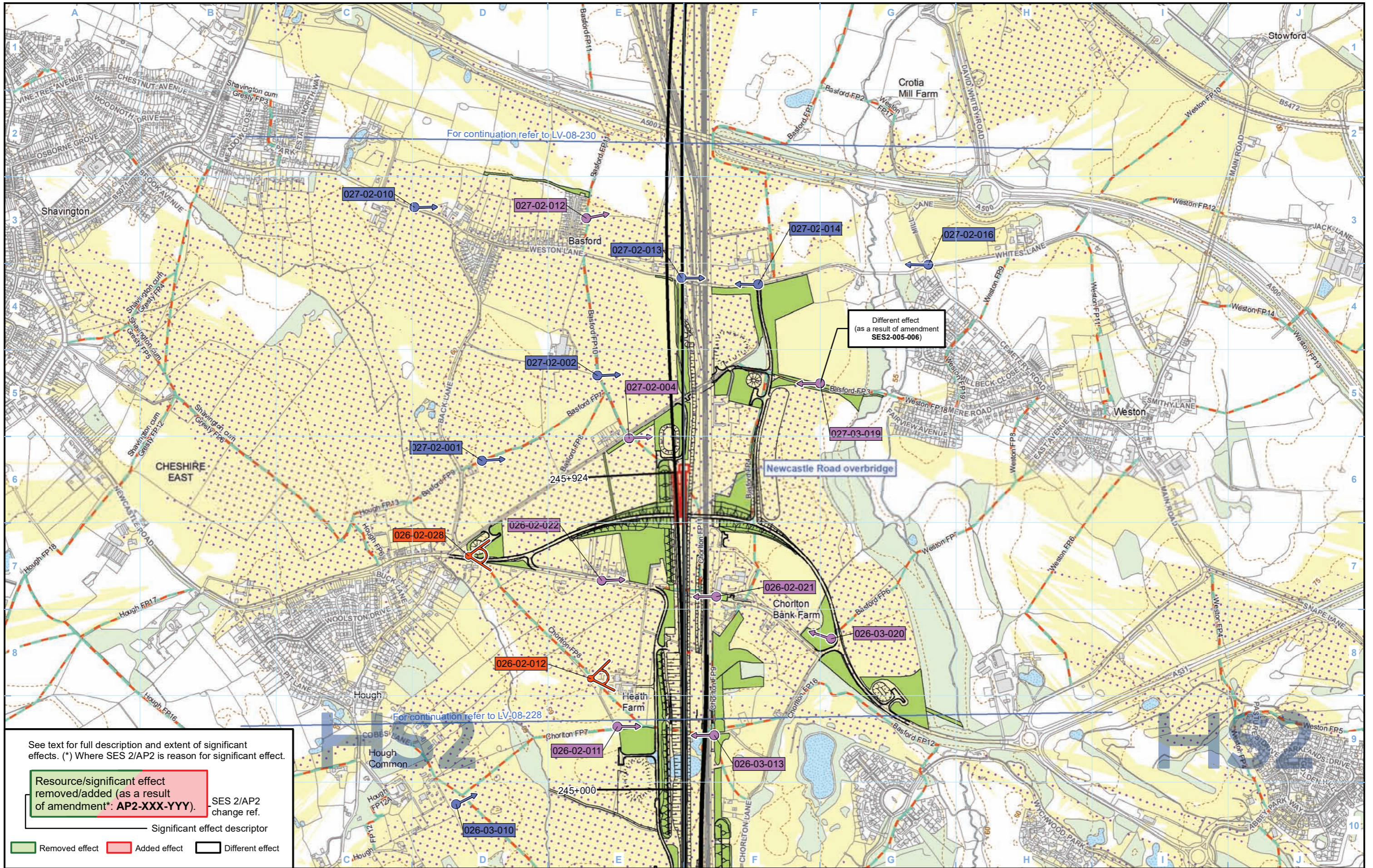
© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608127-P03

Scale at A3: 1:10,000

Date: 17/01/19

This page is left intentionally blank



See text for full description and extent of significant effects. (*) Where SES 2/AP2 is reason for significant effect.

Resource/significant effect removed/added (as a result of amendment*: AP2-XXX-YYY). SES 2/AP2 change ref.

Significant effect descriptor

Removed effect (Green box) Added effect (Red box) Different effect (Black box)

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
- Cannock Chase Area of Outstanding Natural Beauty (AONB)
- ZTV operation year 1
- ZTV operation year 15
- 001-1-001 Non significantly affected viewpoint number
- 001-1-001 Significantly affected viewpoint number
- 001-1-001 Photomontage viewpoint number
- 001-1-001 Photomontage location
- Non significantly affected viewpoint
- Significantly affected viewpoint
- Photomontage location
- Engineering earthworks:
 - Embankment
 - Cutting
- Non engineering earthworks:
 - Embankment
 - Cutting

The zone of theoretical visibility (ZTV) is a computer generated model that indicates the theoretical visibility of the construction works. Theoretical visibility does not necessarily mean a location would be subject to adverse effects. An explanation of what the ZTV represents and how it should be interpreted is provided in the SMR Addendum (see Volume 5: Appendix CT-001-002).

Map Number: LV-08-229

Map Name: Operational Phase Zone of Theoretical Visibility (ZTV) and Viewpoints SES2 and AP2 ES

Community Area 5: South Cheshire

HS2

Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

© Crown copyright and database rights 2018 OS 100049190

Doc Number: 2PT02-ARP-EV-MAP-000-608129-P03

Date: 17/01/19

Scale at A3: 1:10,000

Metres

This page is left intentionally blank