

HIGH SPEED RAIL (LONDON - WEST MIDLANDS) ADDITIONAL PROVISION

Environmental Statement

Volume 2 | Map books - Part 2 of 6
CFA11 Stoke Mandeville and Aylesbury

September 2014
ES 3.2.2



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CFA11 Stoke Mandeville and Aylesbury

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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.

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

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Map series name	CT-05 – Construction Phase	CT-06 – Proposed Scheme	LV-01 – Photomontages	LV-03 – Construction Phase Significantly Affected Viewpoints	LV-04 – Operational Phase Significantly Affected Viewpoints	SV-05 – Operational Airborne Noise and Vibration Impacts and Likely Significant Effects
Map series description	<p><i>These maps show the land potentially required during construction, the construction features, access requirements and infrastructure associated with construction of the Proposed Scheme. The maps also show the construction phase arrangements for public access using Public Rights of Way.</i></p> <p><i>The base mapping is reflective of 2013 Ordnance Survey (OS) data.</i></p>	<p><i>These maps show permanent features, infrastructure, restored land, and areas for landscaping, screening and ecological mitigation associated with the Proposed Scheme. The base mapping is reflective of 2013 Ordnance Survey (OS) data.</i></p>	<p><i>Photomontages illustrating the Proposed Scheme during construction and operation.</i></p>	<p><i>Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the construction phase.</i></p>	<p><i>Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the operational phase.</i></p>	<p><i>SV-05 presents the direct operational noise impacts and likely significant effects of the scheme.</i></p> <p><i>The SV-05 figure series contains a large amount of information relating to the operational noise and vibration assessment. It is designed to communicate visually the assessment process from the prediction of impacts to the determination of likely residual significant effects. The corresponding text is included in Vol2.</i></p>
Community Forum Area name						
CFA 11 – Stoke Mandeville and Aylesbury	✓	✓	✗	✓	✓	✓

Mapping explanatory notes

Copyright statements

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

Ordnance Survey data

All maps produced as part of the London-West Midlands Additional Provision Environmental Statement (AP 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 AP 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. 77+000 or 158+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 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 on the left hand page and the AP map on the right. For the CT-05 and CT-06 map series, the AP map is annotated with a red cloud which highlights the area of change. A red outlined text box provides a brief description of the AP, and gives the AP reference number. Only maps which have been amended as a result of the AP are included within the map books.

Each volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the AP reference number. For more detailed information about the AP annotation, refer to the map series legend. Only maps which have been amended as a result of the AP are included within the map book.

Map orientation

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

The 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 the West Midlands to the top.

Map books

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

Volume number	Title
Volume 2 Map book – Part 1 of 6	CFA 07 Colne Valley CFA 09 Central Chilterns CFA 10 Dunsmore, Wendover and Halton
Volume 2 Map book – Part 2 of 6	CFA 11 Stoke Mandeville and Aylesbury
Volume 2 Map book – Part 3 of 6	CFA 12 Waddesdon and Quainton CFA 13 Calvert, Steeple Claydon, Twyford and Chetwode CFA 14 Newton Purcell to Brackley CFA 15 Greatworth to Lower Boddington
Volume 2 Map book – Part 4 of 6	CFA 16 Ladbroke and Southam CFA 17 Offchurch and Cubbington CFA 18 Stoneleigh, Kenilworth and Burton Green
Volume 2 Map book – Part 5 of 6	CFA 19 Coleshill Junction CFA 20 Curdworth to Middleton CFA 21 Drayton Bassett, Hints and Weeford CFA 22 Whittington to Handsacre
Volume 2 Map book – Part 6 of 6	CFA 23 Balsall Common and Hampton-in-Arden CFA 24 Birmingham Interchange and Chelmsley Wood CFA 25 Castle Bromwich and Bromford CFA 26 Washwood Heath to Curzon Street
Volume 5 Map Book	Environmental topics



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HIGH SPEED RAIL (LONDON - WEST MIDLANDS) ADDITIONAL PROVISION

Environmental Statement

Data dictionary and definitions

September 2014

Data dictionary and definitions

Legend features	Definition	Source	Copyright
5m contours	A contour line showing points of equal elevation (height) above a reference level, such as mean sea level and therefore gives indication of the topography, showing valleys and hills, and the steepness of slopes. Spaced at intervals of 5m.	High Speed Two (HS2) Ltd	
Airborne sound study area	This defines the area within which operational airborne sound impacts of the scheme have been quantitatively assessed. This area is defined as within 1km of surface sections of the route in rural areas and within 500m of surface sections of the route in urban areas.	High Speed Two (HS2) Ltd	
Balancing pond	The proposed location and extent of balancing ponds for drainage attenuation and infiltration. Outer boundary represents the perimeter.	High Speed Two (HS2) Ltd	
Chainage	<p>Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scale chainage is shown at 1km intervals.</p> <p>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.</p>	High Speed Two (HS2) Ltd	
Committed developments	<p>This informs the assessment of the future baseline.</p> <p>Committed consents are unimplemented but committed developments or Local Plan development allocations that are likely to be largely built out prior to commencement of the Proposed Scheme.</p> <p>Cumulative development is unimplemented but committed developments or Local Plan development allocations that are likely to be largely built out during implementation of the Proposed Scheme and give rise to potential cumulative effects, when considered alongside the Proposed Scheme.</p>	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2014 Ordnance Survey Licence Number 100049190.
Community forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2014 Ordnance Survey Licence Number 100049190.
Construction compounds	See Main construction compound.	See Main construction compound.	See Main construction compound.
Construction traffic route	Public highways which may be used for HGV construction traffic.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2014 Ordnance Survey Licence Number 100049190.

Legend features	Definition	Source	Copyright
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 2014 Ordnance Survey Licence Number 100049190.
Ditches – new	The proposed location and extent of drainage ditches.	High Speed Two (HS2) Ltd	
Ecological mitigation pond	Ponds whose primary function is to provide ecological mitigation. This could be a standalone pond or part of a wider wetland habitat creation plan.	High Speed Two (HS2) Ltd	
Electricity substation	Includes all auto-transformers and feeder stations.	High Speed Two (HS2) Ltd	
Engineering earthworks	Engineering (structural) earthworks which include railway slopes and crossings (roads etc.).	High Speed Two (HS2) Ltd	
Engineering earthworks: Cutting	Cuttings created in the construction of the railway and associated works such as highways.	High Speed Two (HS2) Ltd	
Engineering earthworks: Embankment	Embankments created in the construction of the railway and associated works such as highways.	High Speed Two (HS2) Ltd	
Envisaged mitigation to avoid / reduce significant noise effects	<p>Landscaping and/or fence barriers: These lines represent the envisaged mitigation provided specifically to reduce sound levels from the Proposed Scheme at sensitive receptors in order to reduce or remove likely operational significant noise effects. Examples include noise fence barriers or earth bunds (non-engineering earthworks) acting as noise barriers. These features are labelled with the height of the top of the barrier/bund above rail level.</p> <p>Engineering e.g. cuttings (green tunnels marked separately): These lines represent engineering features of the route which reduce sound levels from the Proposed Scheme at potentially significant sensitive receptors. These features, therefore, serve a material purpose in reducing or avoiding likely significant noise effects. Examples include engineering cuttings near to sensitive receptors. These features are labelled with the height of the top of the feature above rail level.</p>	High Speed Two (HS2) Ltd	
Envisaged mitigation further reducing noise effects	<p>Other environmental features e.g. landscaping: These lines represent environmental mitigation features provided for reasons other than noise mitigation which also reduce sound levels from the Proposed Scheme to the surrounding environment. These features are not placed specifically to reduce or remove a likely significant noise effect. Examples include landscaping and visual mitigation earthworks (non-engineering earthworks).</p> <p>Engineering e.g. cuttings: These lines represent engineering features which reduce sound levels from the Proposed Scheme to the surrounding environment but are not placed specifically to reduce or remove a likely significant noise effect. Examples include cuttings and safety barriers on viaducts which are not close to sensitive receptors.</p>	High Speed Two (HS2) Ltd	
Existing public right of way (PRoW)	See Public Rights of Way.	See Public Rights of Way.	See Public Rights of Way.

Legend features	Definition	Source	Copyright
Existing watercourse	See Watercourse.	See Watercourse.	See Watercourse.
Existing woodland and tree belts	A dataset showing large areas of trees that are likely to have an impact on whether the scheme is visible during construction and vegetation. It was used in the ZTV as part of the base models.	High Speed Two (HS2) Ltd	
Grassed areas	Any other area grassed not included in landscaped earthworks or ecological habitat.	High Speed Two (HS2) Ltd	
Grassland habitat creation	Soft landscape design that can include any seeded areas for the purpose of creating grassland except for the engineering earthworks.	High Speed Two (HS2) Ltd	
Ground-borne sound & vibration study area (highly sensitive non-residential)	This defines the area within which direct operational ground-borne sound and vibration impacts of the scheme at highly sensitive non-residential receptors have been quantitatively assessed. This area is defined as within 200m of the route.	High Speed Two (HS2) Ltd	
Ground-borne sound & vibration study area (residential and non-residential)	This defines the area within which direct operational ground-borne sound and vibration impacts of the scheme at residential and non-residential receptors have been quantitatively assessed. This area is defined as within 85m of the route.	High Speed Two (HS2) Ltd	
Hedgerow habitat creation	Ecological mitigation to provide new hedgerow planting, connectivity enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.	High Speed Two (HS2) Ltd	
HS2 Access road	Access road to HS2 infrastructure such as electricity substations, balancing ponds and maintenance access points to the railway.	High Speed Two (HS2) Ltd	
Land drainage area	Provision of land to attenuate or infiltrate overland flows at or beyond the HS2 railway boundaries; for example, where existing land drainage systems are altered by the HS2 works, where the existing landform is reshaped by landscape earthworks or where surface water from third party land is intercepted by the HS2 perimeter drainage system.	High Speed Two (HS2) Ltd	
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Landscape earthworks	Landscape earthworks to provide permanent landscape, visual or acoustic mitigation.	High Speed Two (HS2) Ltd	
Landscape mitigation planting (scrub / woodland)	Screening planting, using woodland, for visual mitigation and landscape integration purposes.	High Speed Two (HS2) Ltd	
Main construction compound	Main Construction Compounds in which main contractors offices and welfare facilities will be located.	High Speed Two (HS2) Ltd	
Main utility works	Represents all new major utility installations (included in the hybrid Bill) and also modifications to existing utilities required to construct the scheme. Includes water, electricity, telecommunications and gas.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Minor ground-borne noise or vibration impact	Buildings at which a minor operational ground-borne sound or vibration impact is predicted from the Proposed Scheme.	High Speed Two (HS2) Ltd	
New, diverted or realigned PRoW	New, realigned or diverted Public Rights of Way (PRoW).	High Speed Two (HS2) Ltd	
Noise fence barrier	Denotes fence-style barriers provided as part of the noise mitigation measures. Note that other noise barriers have also been included in the form of landscaping and engineering cuttings - see the SV map series for more detail on noise mitigation.	High Speed Two (HS2) Ltd	
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	
Operational airborne sound impacts at buildings	The buildings shown on SV-05 are colour-coded according to the magnitude of the predicted noise impacts of the Proposed Scheme. Noise impacts are calculated by comparing the sound levels predicted if the Proposed Scheme did not go ahead with those if it did (details of this process can be found in Volume 5: Appendix SV001-000). Panel B on SV-05 contains a key showing the colours used with the corresponding impact categories. The impacts presented are the greatest (i.e. worst-case) of the impacts predicted for daytime and night-time.	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 realm	Specifically provided to show areas to be used for public realm. This layer is mainly associated with station sites and is to be used to indicate general areas for designed soft and hard landscaping.	High Speed Two (HS2) Ltd	
Public Rights of Way	Public rights of way are highways which can be used for the following purposes: - Footpaths - pedestrians only - Bridleways - pedestrians, cyclists and equestrians - Restricted byways - as bridleways plus non-motorised vehicles - Byways open to all traffic. Definitive Map data supplied by surveying authorities (i.e. county councils, London Boroughs and metropolitan borough councils in the West Midlands).	Buckinghamshire County Council Birmingham City Council Coventry City Council City of Westminster Hertfordshire County Council London Borough of Brent London Borough of Camden London Borough of Ealing London Borough of Hammersmith & Fulham London Borough of Hillingdon Northamptonshire County Council Oxfordshire County Council Royal Borough of Kensington & Chelsea Solihull Metropolitan Borough Council Staffordshire County Council Warwickshire County Council	© Crown Copyright and database rights 2014 Ordnance Survey Licence Number 100049190. This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012. Copyright Buckinghamshire County Council. © Copyright Coventry City Council © Northamptonshire County Council
Rail alignment	Longitudinal geometry of the tracks consisting of a series of	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
	straights and curves.		
Rail alignment formation	The space required to accommodate the railway infrastructure which typically includes the tracks, overhead line equipment, drainage, lineside access paths and cable routes for electrification and communication systems.	High Speed Two (HS2) Ltd	
Replacement floodplain storage	Provision of storage to replace floodplain occupied by the Proposed Scheme. Equivalent storage is provided for events up to the 1 in 100 (1%) annual probability event with an allowance for climate change.	High Speed Two (HS2) Ltd	
Returned to suitable development use	Post construction land will be reinstated to enable potential future development.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Satellite construction compound	Represents satellite construction compounds which serve local works for major construction elements within a main contract.	High Speed Two (HS2) Ltd	
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	
Sound contours	The sound levels from the Proposed Scheme (expressed as $L_{pAeq,T}$ and representing sound from the new railway only) are presented at two sound levels: 40 dB $L_{Aeq,T 23:00 to 07:00}$ and 55 dB $L_{Aeq,T 23:00 to 07:00}$. The corresponding daytime levels ($L_{Aeq,T 07:00 to 23:00}$) are shown in Panel A of SV-05.	High Speed Two (HS2) Ltd	
Stopped-up PRoW	Public rights of way that will be closed due to construction of the scheme.	High Speed Two (HS2) Ltd	
Sustainable placement	Sustainable placement: the on-site placement for disposal of surplus excavated material to avoid causing environmental effects (e.g. transport) that would otherwise be associated with the off-site disposal of that material. "On-site" in this context means within the land required for the purposes of the Proposed Scheme and "off-site" means external land (or landfill site) which is not specifically required for the purposes of the Proposed Scheme.	High Speed Two (HS2) Ltd	
Temporary highway diversion / realignment	Indicative temporary highway diversion layouts during the construction phase.	High Speed Two (HS2) Ltd	
Temporary material stockpile	Represents temporary stockpiling of topsoil, subsoil and other excavated materials to be used for reinstatement purposes, and also stockpile areas for managing movement of excavated materials during construction.	High Speed Two (HS2) Ltd	
Temporary PRoW diversion / realignment	Indicative temporary diversions to public rights of way as a result of construction of the scheme. These will vary depending on construction phase and local conditions.	High Speed Two (HS2) Ltd	
Tunnel portal	The footprint of a tunnel portal.	High Speed Two (HS2) Ltd	
Tunnels external extent	The external excavated extent of each tunnel bore.	High Speed Two (HS2) Ltd	
Water body	Based on Ordnance Survey Vector Map District.	Ordnance Survey	© Crown Copyright and database rights 2014 Ordnance Survey Licence Number 100049190.
Watercourse	The Detailed River Network (DRN) is the only large-scale,	Environment Agency	Contains Environment Agency information ©

Legend features	Definition	Source	Copyright
	accurate and fully attributed digital river centreline covering England and Wales.		Environment Agency and database right.
Watercourse diversion	Includes rivers, streams, ditches and other open channels, diversions to these, together with any new culverts required.	High Speed Two (HS2) Ltd	
Wetland habitat creation	Ecological mitigation area to provide new wetland habitat creation, enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.	High Speed Two (HS2) Ltd	
Woodland habitat creation	Ecological mitigation area to provide new woodland planting, connectivity enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.	High Speed Two (HS2) Ltd	



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HIGH SPEED RAIL (LONDON - WEST MIDLANDS) ADDITIONAL PROVISION

Environmental Statement

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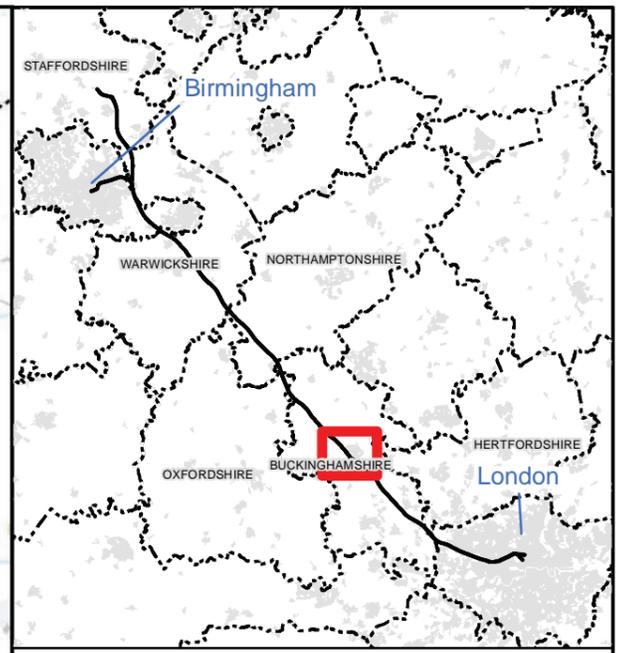
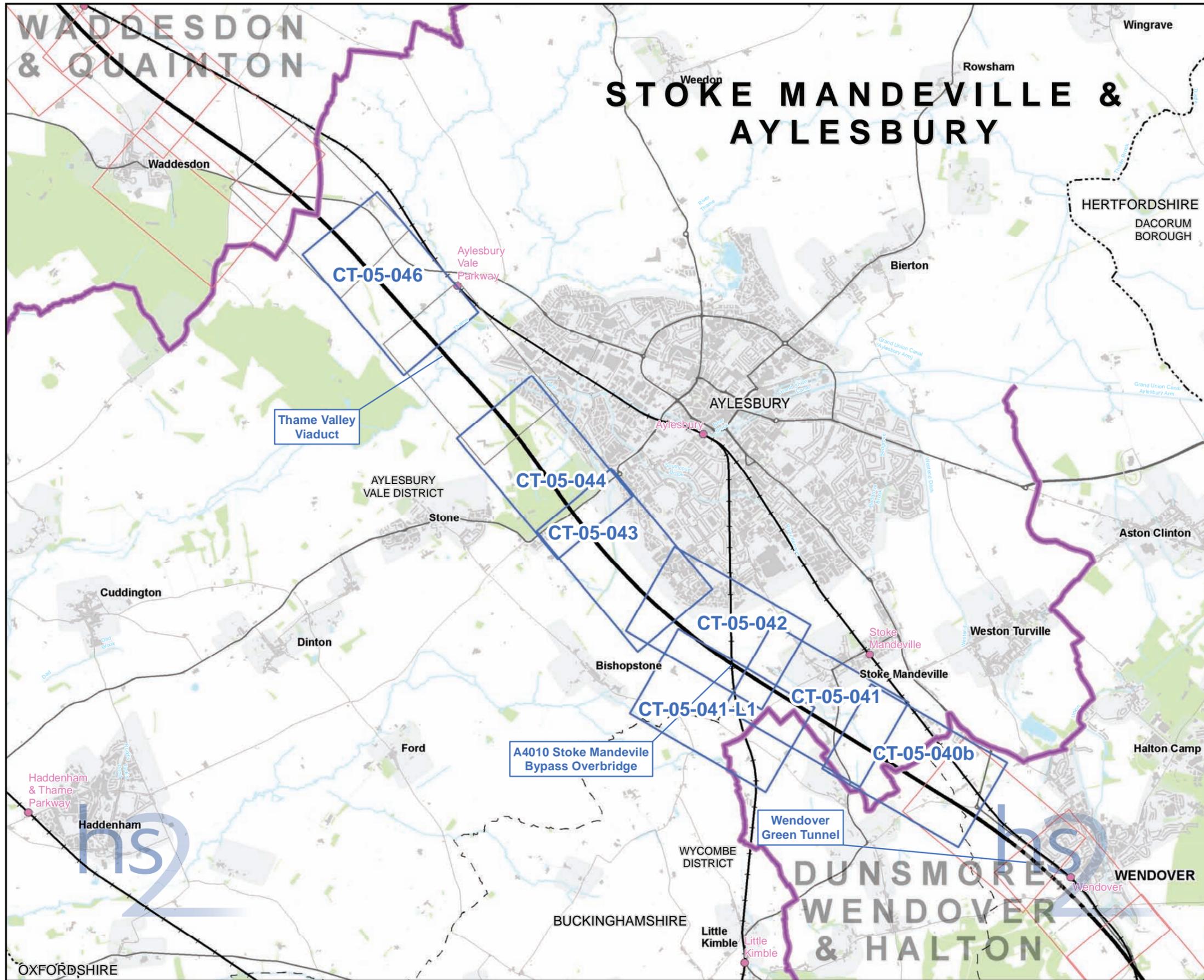
HIGH SPEED RAIL (LONDON - WEST MIDLANDS) ADDITIONAL PROVISION

Environmental Statement

CT-05 - Construction Phase

CT-06 - Proposed Scheme

September 2014



Map Series Information:

These plans show the land potentially required during construction, the construction features, access requirements and infrastructure associated with construction of the Proposed Scheme. The plans also show the construction phase arrangements for public access using Public Rights of Way.

The base mapping shown on the plans is reflective of 2014 Ordnance Survey (OS) data.

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

Map Number **CT-05-INDEX-CFA11**

Map Name
**Index Map of:
 Construction Phase
 AP1**

Community Forum Area CFA11:
 Stoke Mandeville & Aylesbury

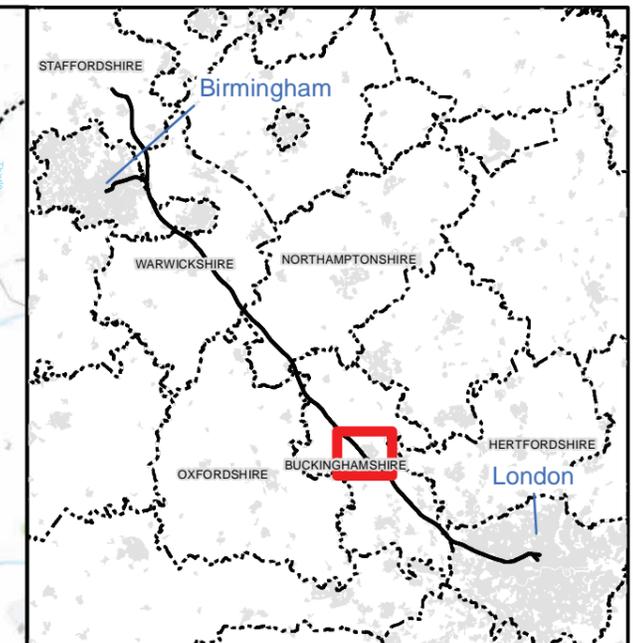
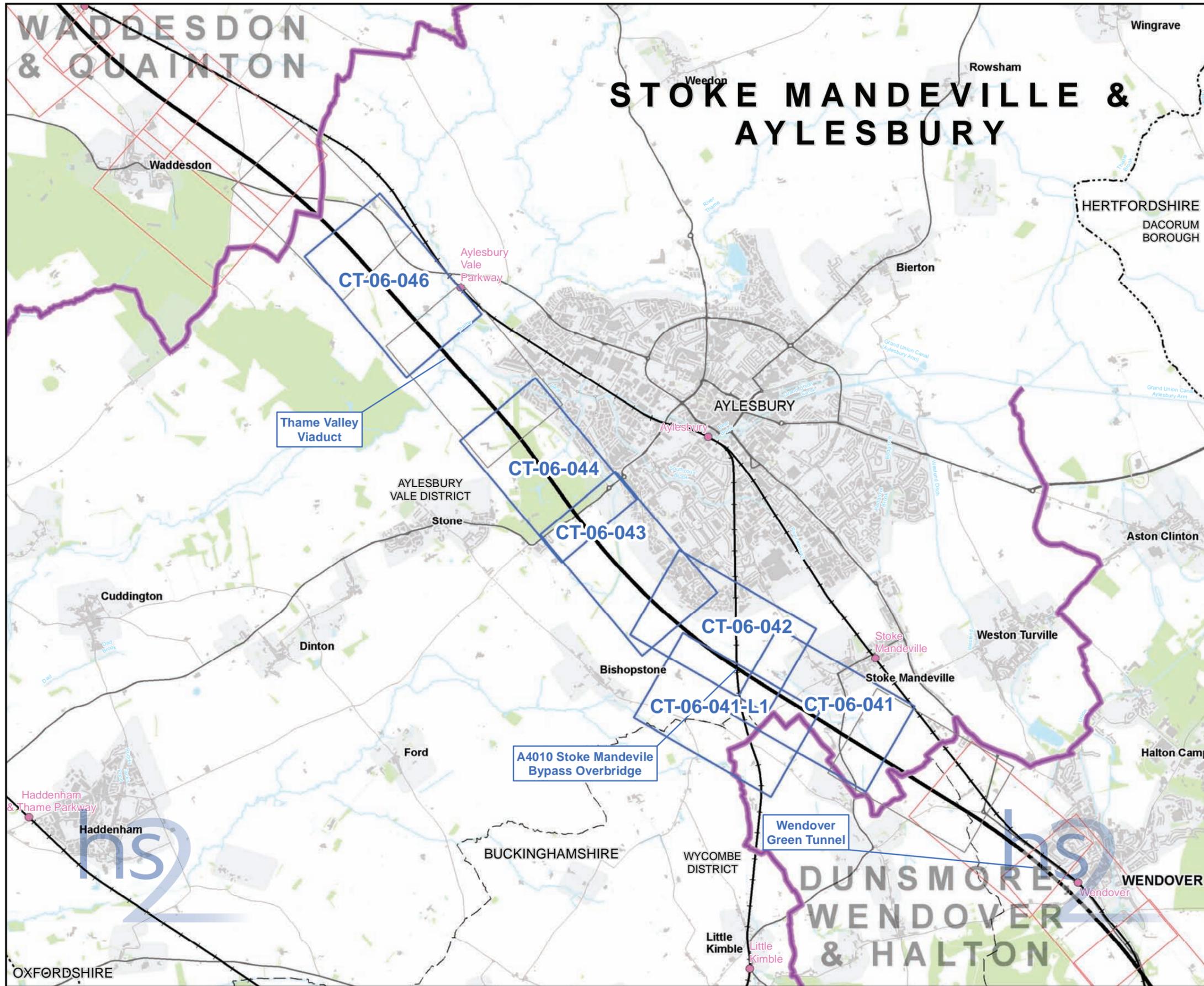
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Doc Number: C250-ARP-EV-MAP-000-005003-AP01 P01.00 **Date: 19/08/14**



Map Series Information:

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

The base mapping is reflective of 2014 Ordnance Survey (OS) data.

Main Map Legend

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

Map Number	CT-06-INDEX-CFA11
Map Name	Index Map of: Proposed Scheme AP1
	Community Forum Area CFA11: Stoke Mandeville & Aylesbury

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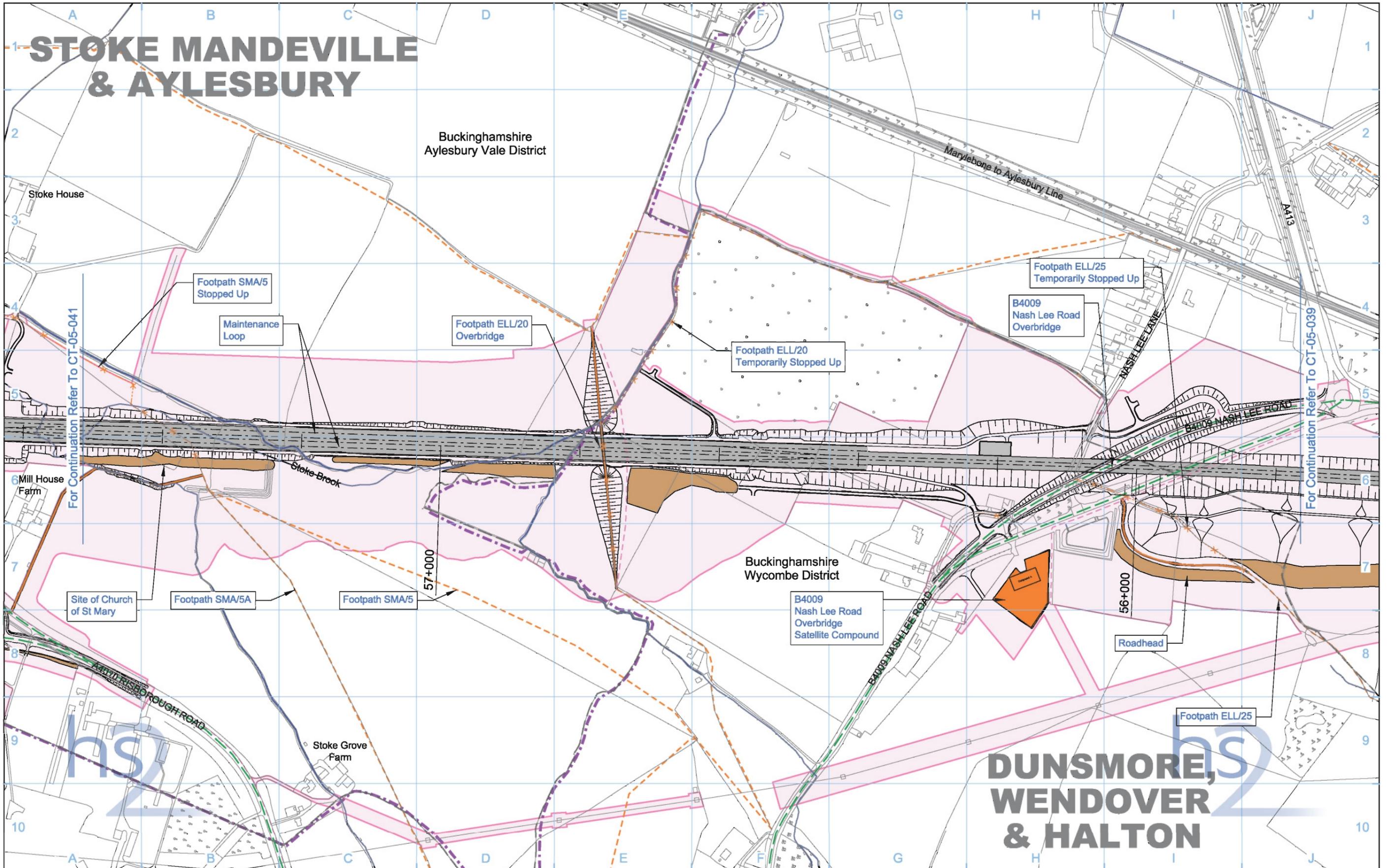
Doc Number: C250-ARP-EV-MAP-000-005021-AP01 P01.00 Date: 19/08/14

STOKE MANDEVILLE & AYLESBURY

Buckinghamshire
Aylesbury Vale District

Buckinghamshire
Wycombe District

DUNSMORE, WENDOVER & HALTON



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

Map Number	CT-05-040b
Map Name	Construction Phase
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

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0 50 100 150 200 250
Metres

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Doc Number: C222-ATK-EV-DPL-020-051101 P03 Date: 22/10/13

STOKE MANDEVILLE & AYLESBURY

Buckinghamshire
Aylesbury Vale District

AP1-010-005: Land required for reconfigured road layout

Footpath ELL/25
Temporarily Stopped Up

B4009
Nash Lee Road
Overbridge

Footpath SMA/5
Stopped Up

Maintenance
Loop

Footpath ELL/20
Overbridge

Footpath ELL/20
Temporarily Stopped Up

For Continuation Refer To CT-05-041

For Continuation Refer To CT-05-039

Stoke House

Mill House
Farm

Site of Church
of St Mary

Footpath SMA/5A

Footpath SMA/5

57+000

Buckinghamshire
Wycombe District

B4009
Nash Lee Road
Overbridge
Satellite Compound

56+000

Roadhead

Footpath ELL/25

Stoke Grove
Farm

DUNSMORE, WENDOVER & HALTON

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

Chainage
(e.g. 10+000)

10+000

--- Rail alignment

Map Number	CT-05-040b
Map Name	Construction Phase AP1
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

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0 50 100 150 200 250
Metres

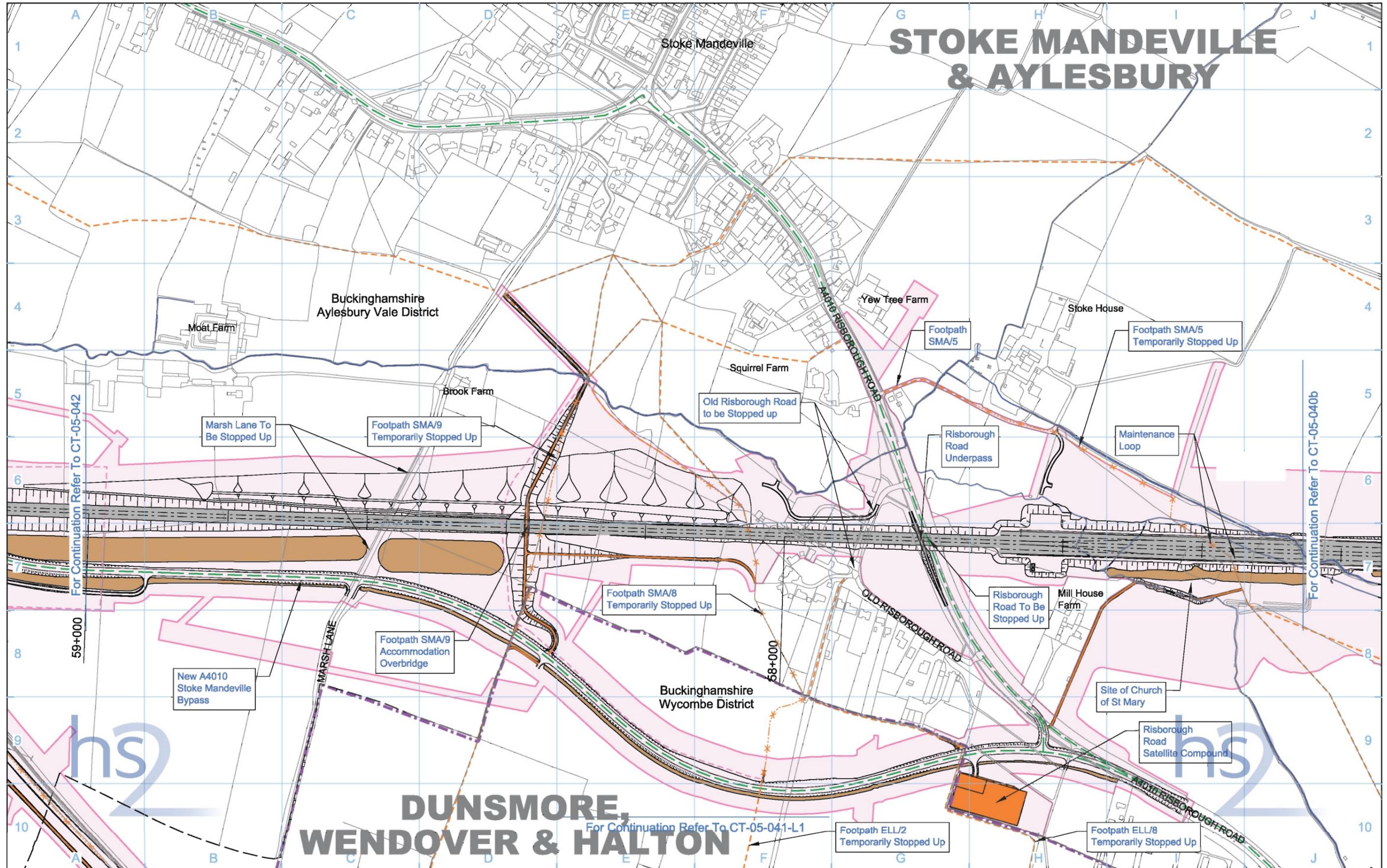
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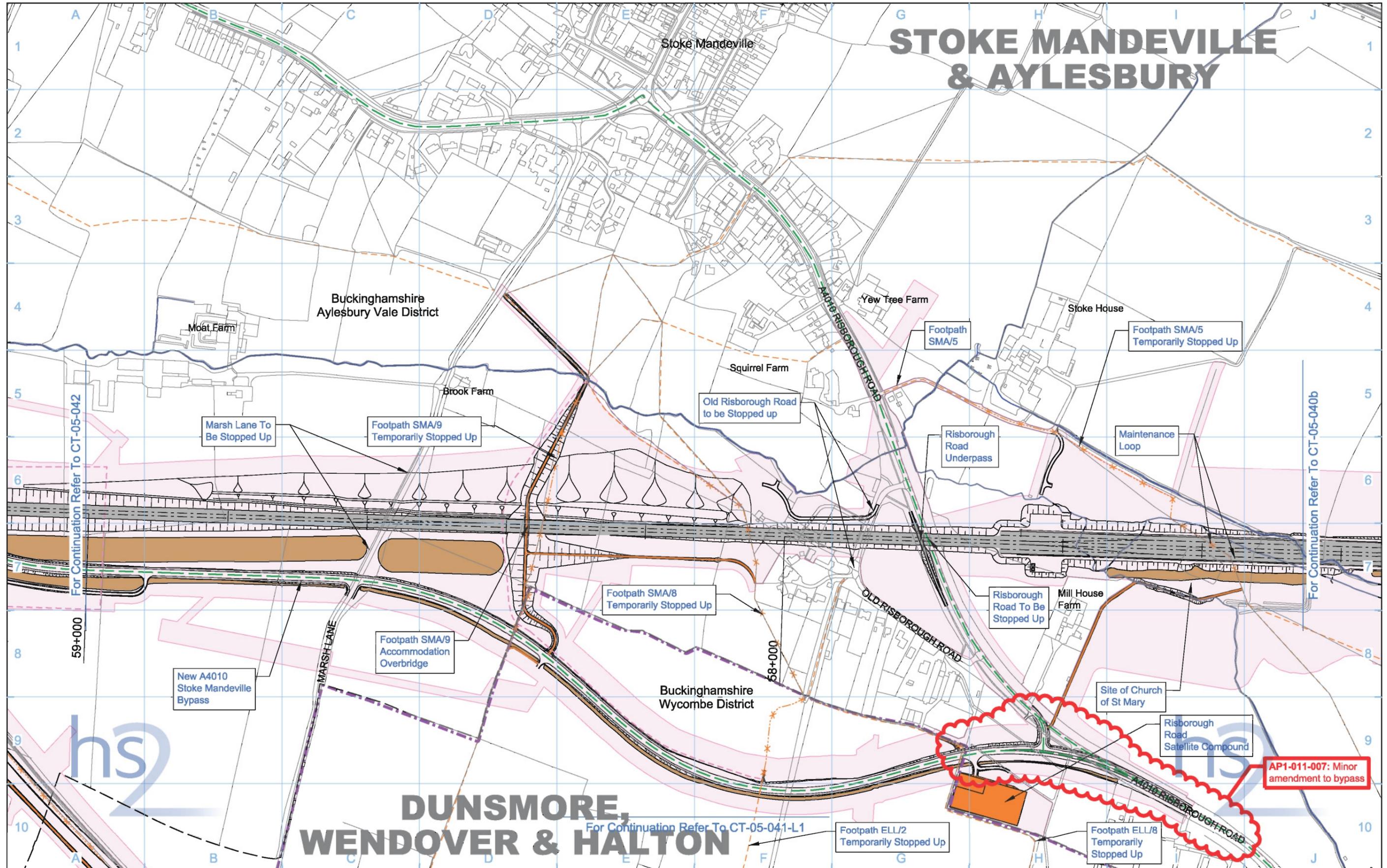
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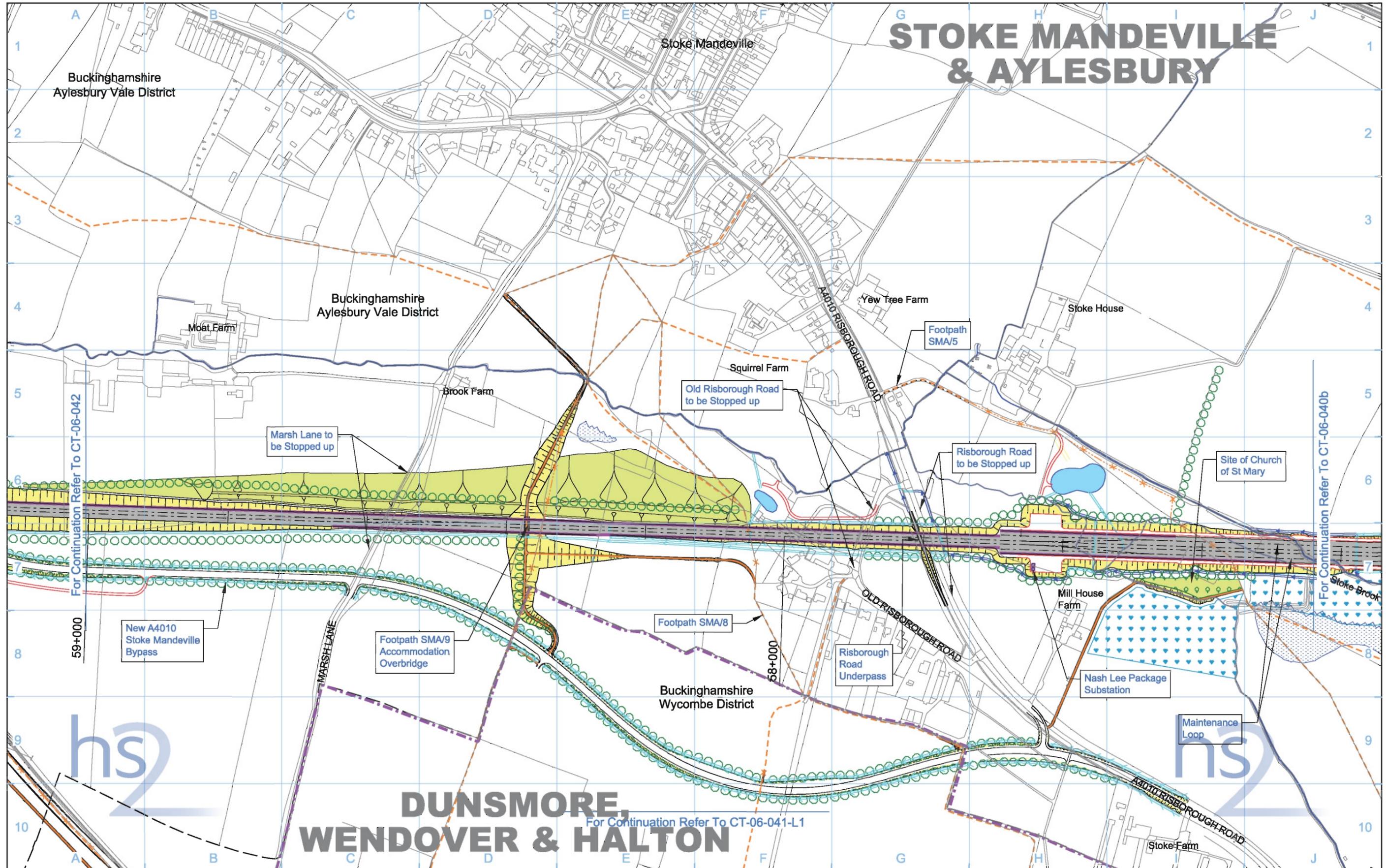
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Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound Temporary material stockpile Rail alignment formation Landscape earthworks Engineering earthworks County boundary Borough / District boundary Land potentially required during construction Community forum boundary Existing watercourse Tunnels external extent Construction traffic route Existing public right of way (PRoW) New, diverted or realigned PRoW Stopped-up PRoW Temporary PRoW diversion / realignment Temporary highway diversion / realignment Main utility works Chainage (e.g. 10+000) Rail alignment 		Map Information Map Number: CT-05-041 Map Name: Construction Phase AP1 Community Forum Area: CFA11 Stoke Mandeville and Aylesbury		h2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791688 Registered office: One Canada Square, London, E14 5AB Scale at A3: 1:5,000 © Crown copyright and database rights 2014. Ordnance Survey Licence Number 100049190. Doc Number: C222-ATK-EV-DPL-020-051102-AP01 P04 Date: 24/07/14	
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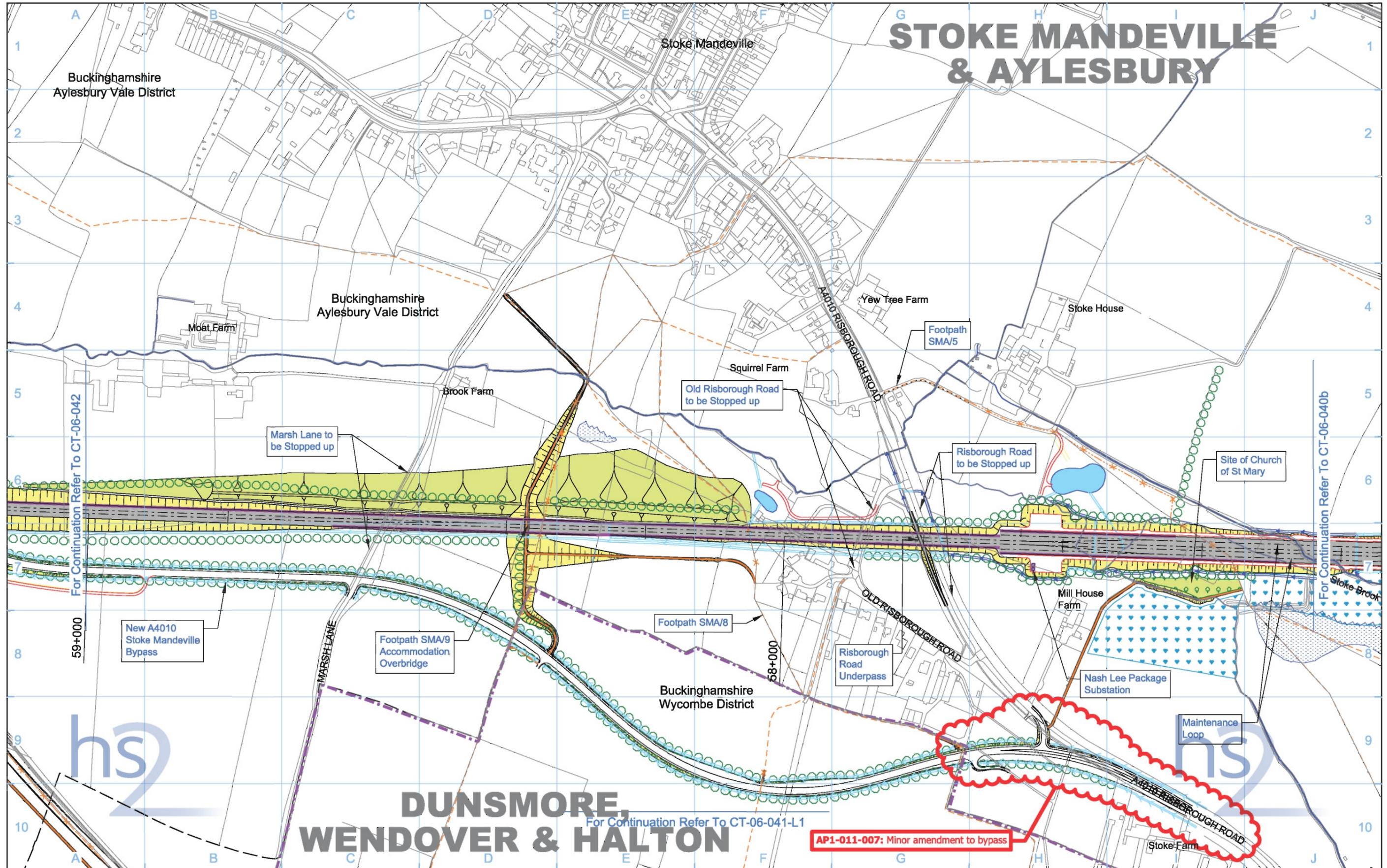
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DUNSMORE, WENDOVER & HALTON

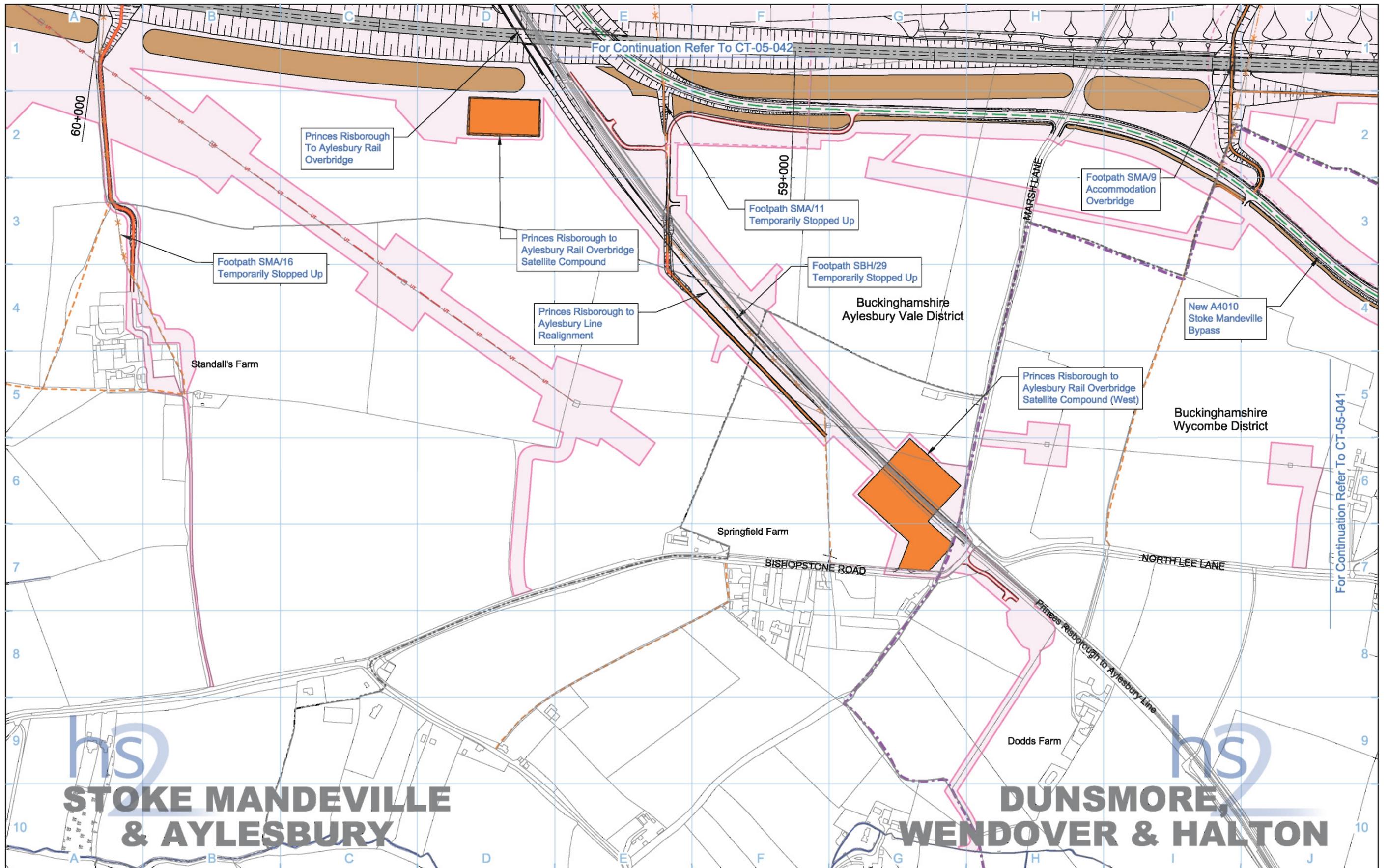
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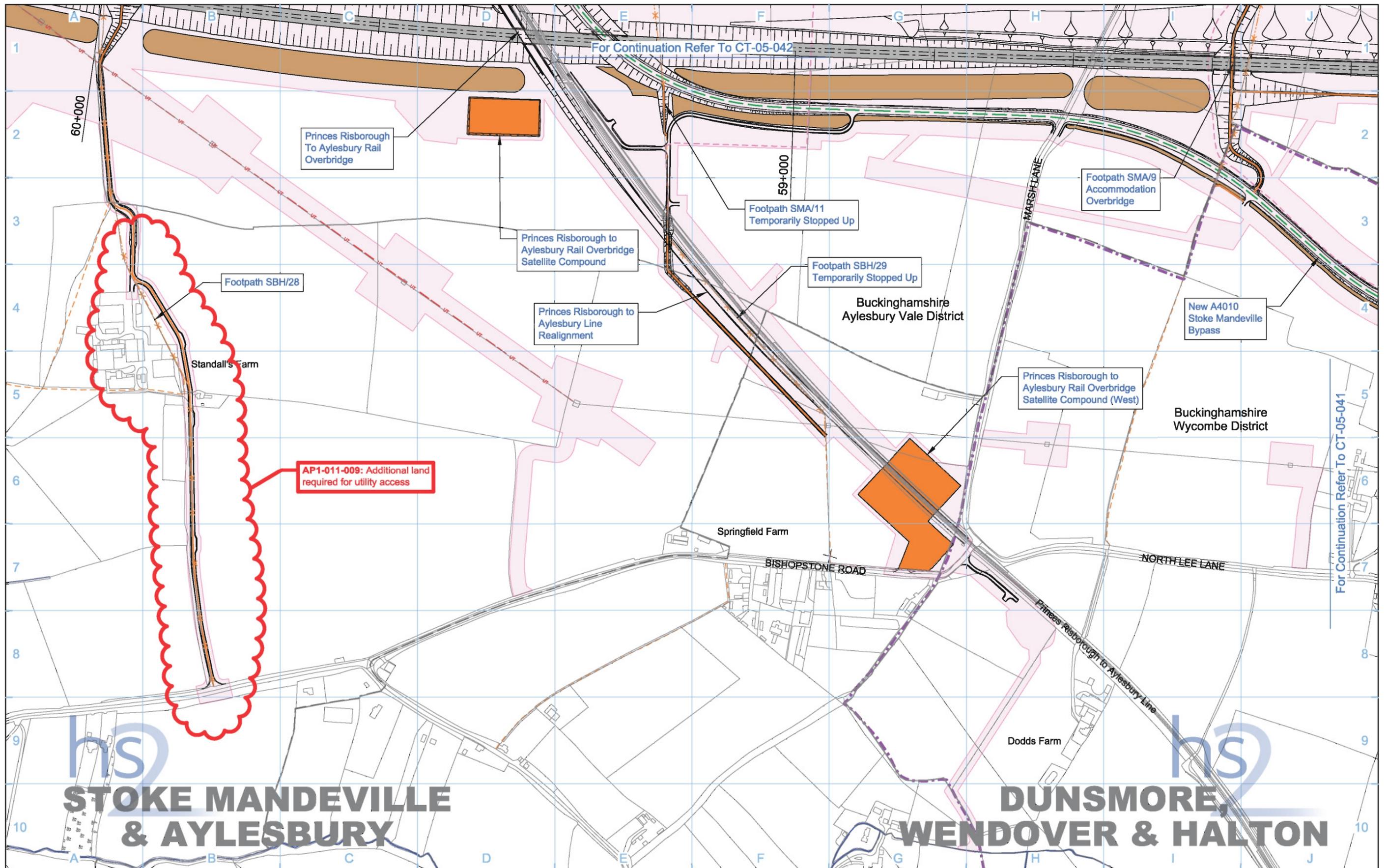
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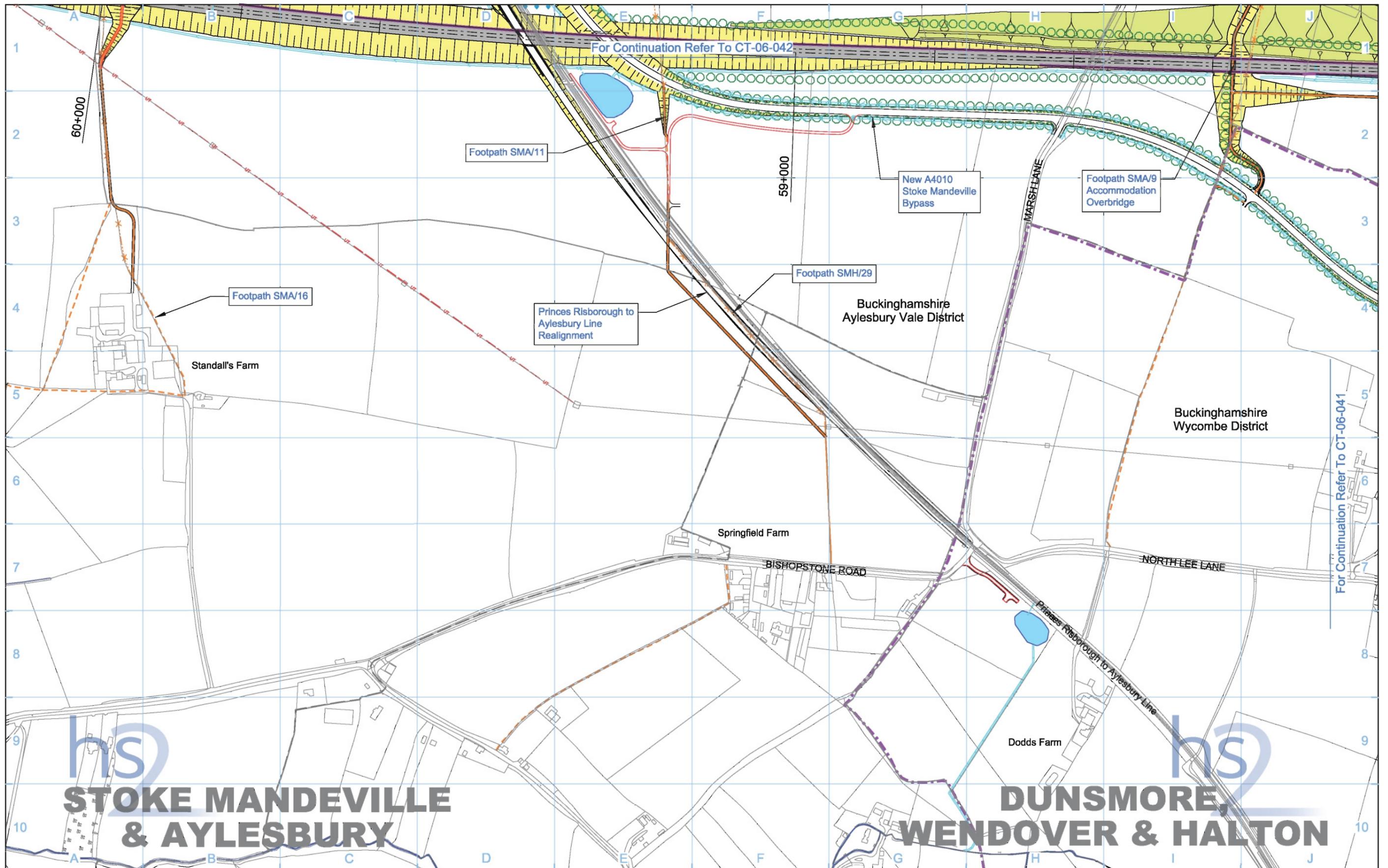
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For Continuation Refer To CT-05-041

Legend 		Map Number CT-05-041-L1 Map Name Construction Phase Community Forum Area CFA11 Stoke Mandeville and Aylesbury	 Scale at A3: 1:5,000 Registered in England, Registration number 06791686 Registered office: Eland House, Bressenden Place, London SW1E 6DU © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C222-ATK-EV-DPL-020-051103 P03 Date: 22/10/13
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Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound Temporary material stockpile Rail alignment formation Landscape earthworks Engineering earthworks County boundary Borough / District boundary Land potentially required during construction Community forum boundary Existing watercourse Tunnels external extent Construction traffic route Existing public right of way (PRoW) New, diverted or realigned PRoW Stopped-up PRoW Temporary PRoW diversion / realignment Temporary highway diversion / realignment UT - Main utility works 		<ul style="list-style-type: none"> Chainage (e.g. 10+000) Rail alignment 	Map Number CT-05-041-L1 Map Name Construction Phase AP1 Community Forum Area CFA11 Stoke Mandeville and Aylesbury	<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: One Canada Square, London, E14 5AB</p> <p>Scale at A3: 1:5,000</p> <p>© Crown copyright and database rights 2014. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C222-ATK-EV-DPL-020-051103-AP01 P04 Date: 24/07/14</p>
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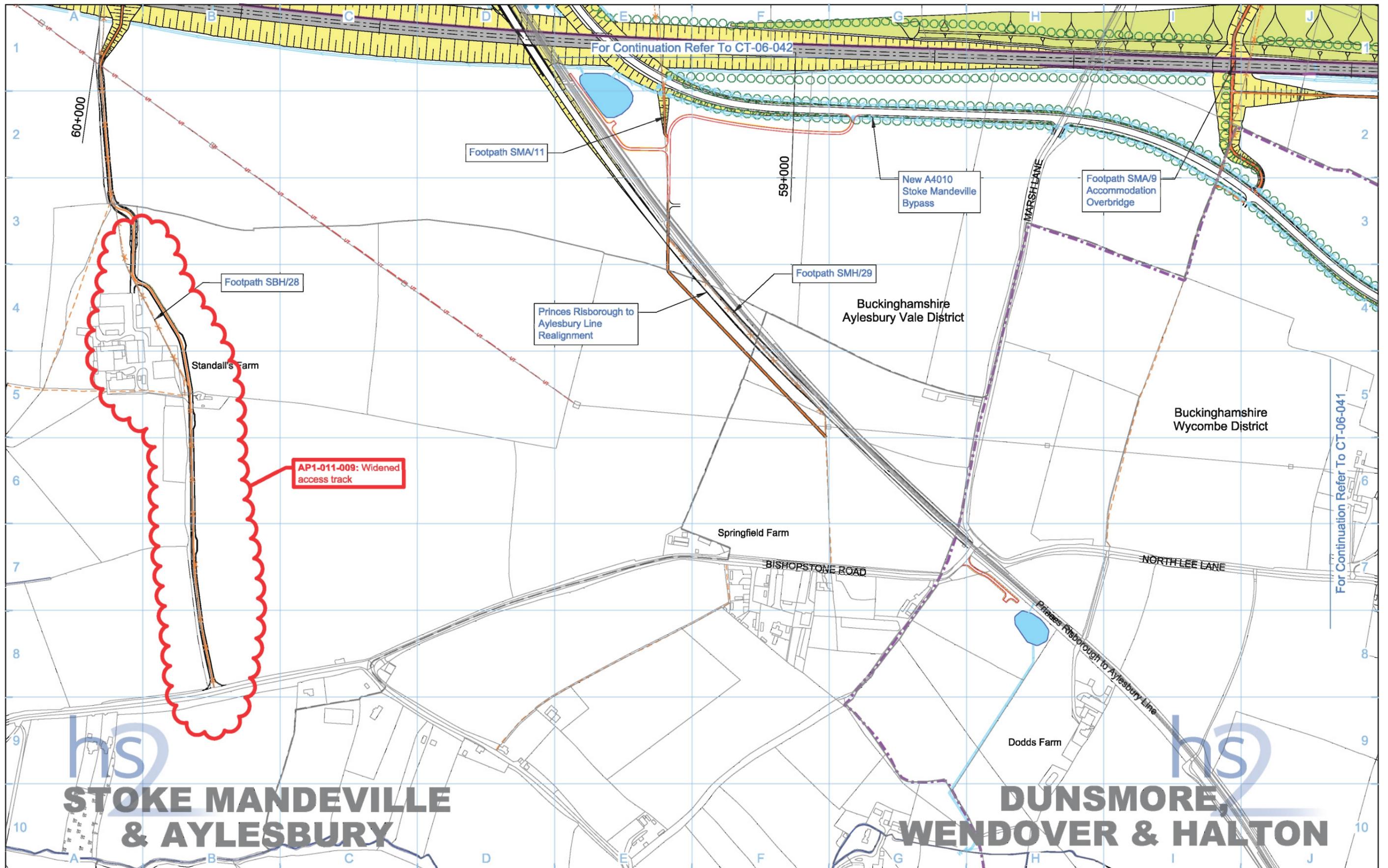
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For Continuation Refer To CT-06-041

STOKE MANDEVILLE & AYLESBURY

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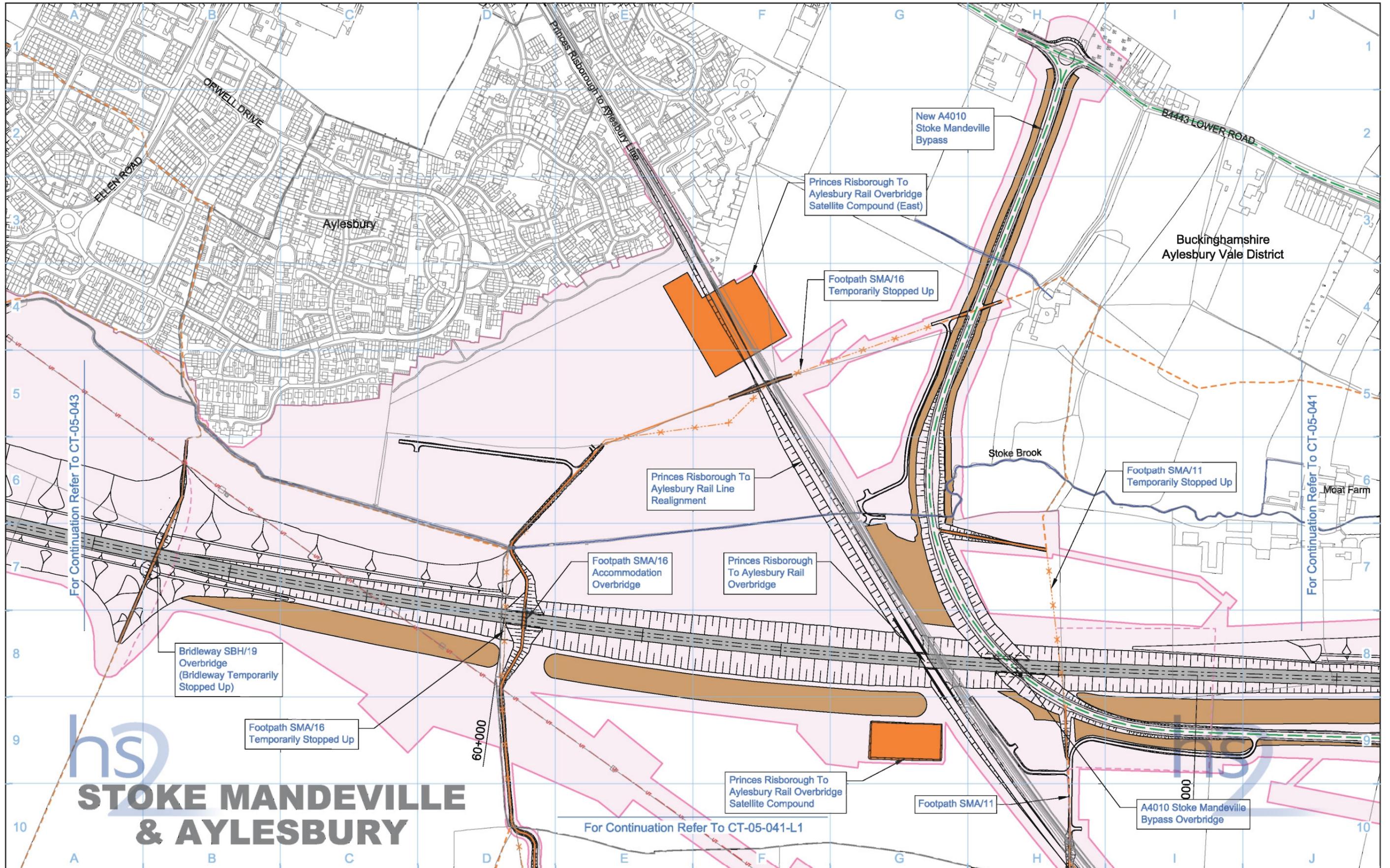
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Legend 		Map Number CT-06-041-L1 Map Name Proposed Scheme AP1 Community Forum Area CFA11 Stoke Mandeville and Aylesbury	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England, Registration number 06791686 Registered office: One Canada Square, London, E14 5AB Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2014. Ordnance Survey Licence Number 100049190. Doc Number: C222-ATK-EV-DPL-020-061103-AP01 P04 Date: 24/07/14
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STOKE MANDEVILLE & AYLESBURY

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

Map Number: **CT-05-042**

Map Name: **Construction Phase**

Community Forum Area: CFA11
Stoke Mandeville and Aylesbury

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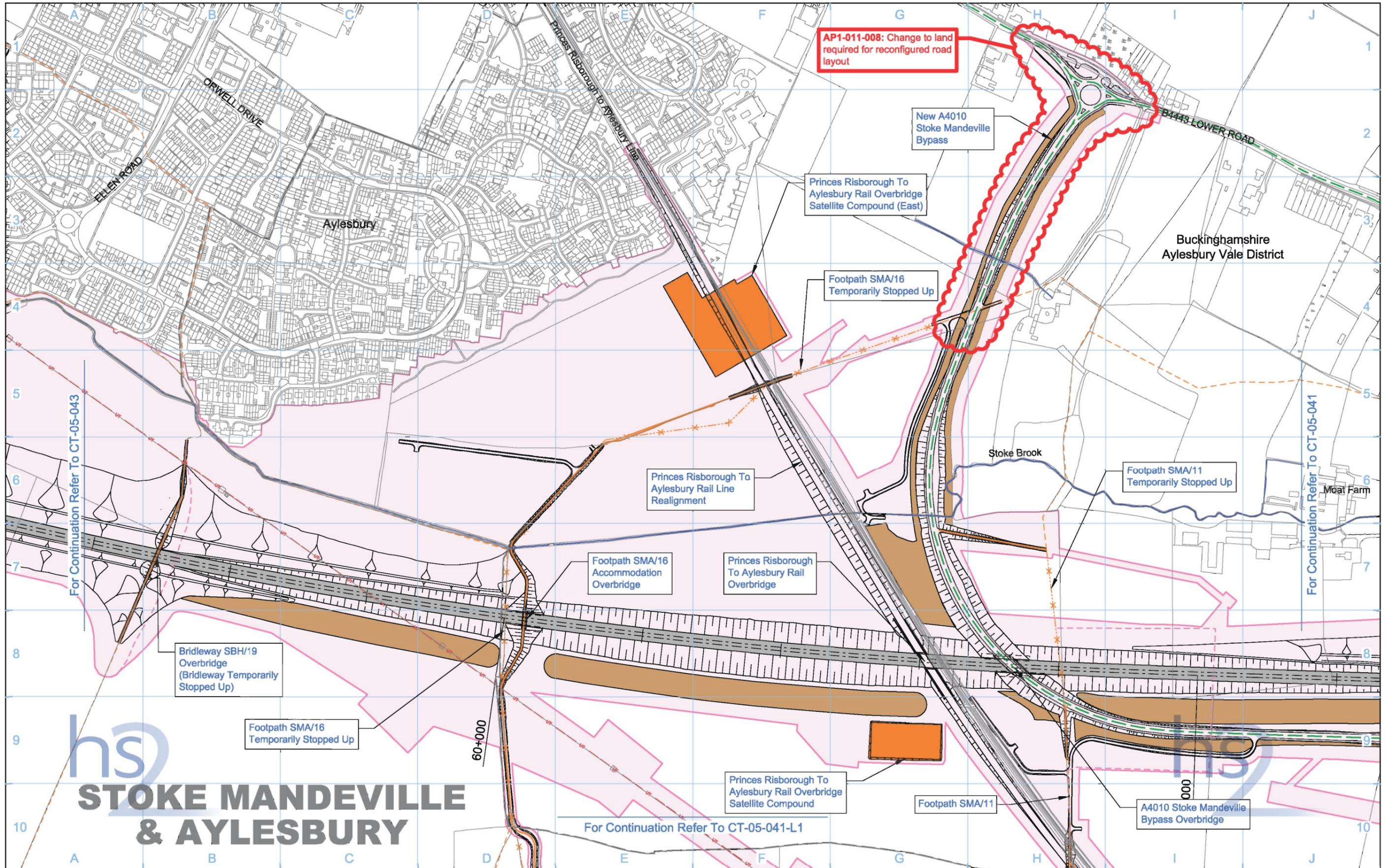
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STOKE MANDEVILLE & AYLESBURY

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

Map Number: **CT-05-042**

Map Name: **Construction Phase AP1**

Community Forum Area: CFA11
 Stoke Mandeville and Aylesbury

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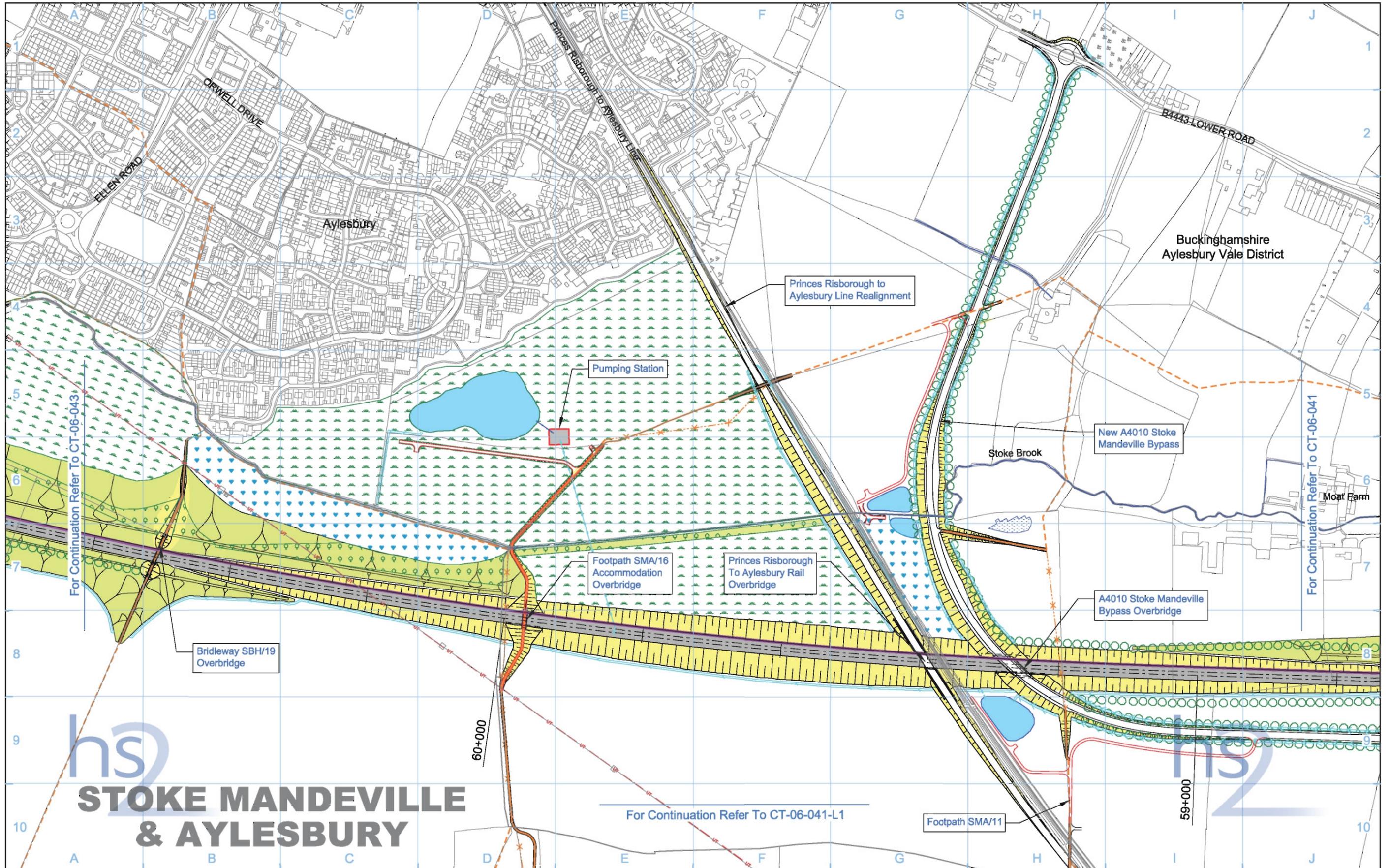
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STOKE MANDEVILLE & AYLESBURY

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

Map Number: **CT-06-042**

Map Name: **Proposed Scheme**

Community Forum Area: CFA11
Stoke Mandeville and Aylesbury

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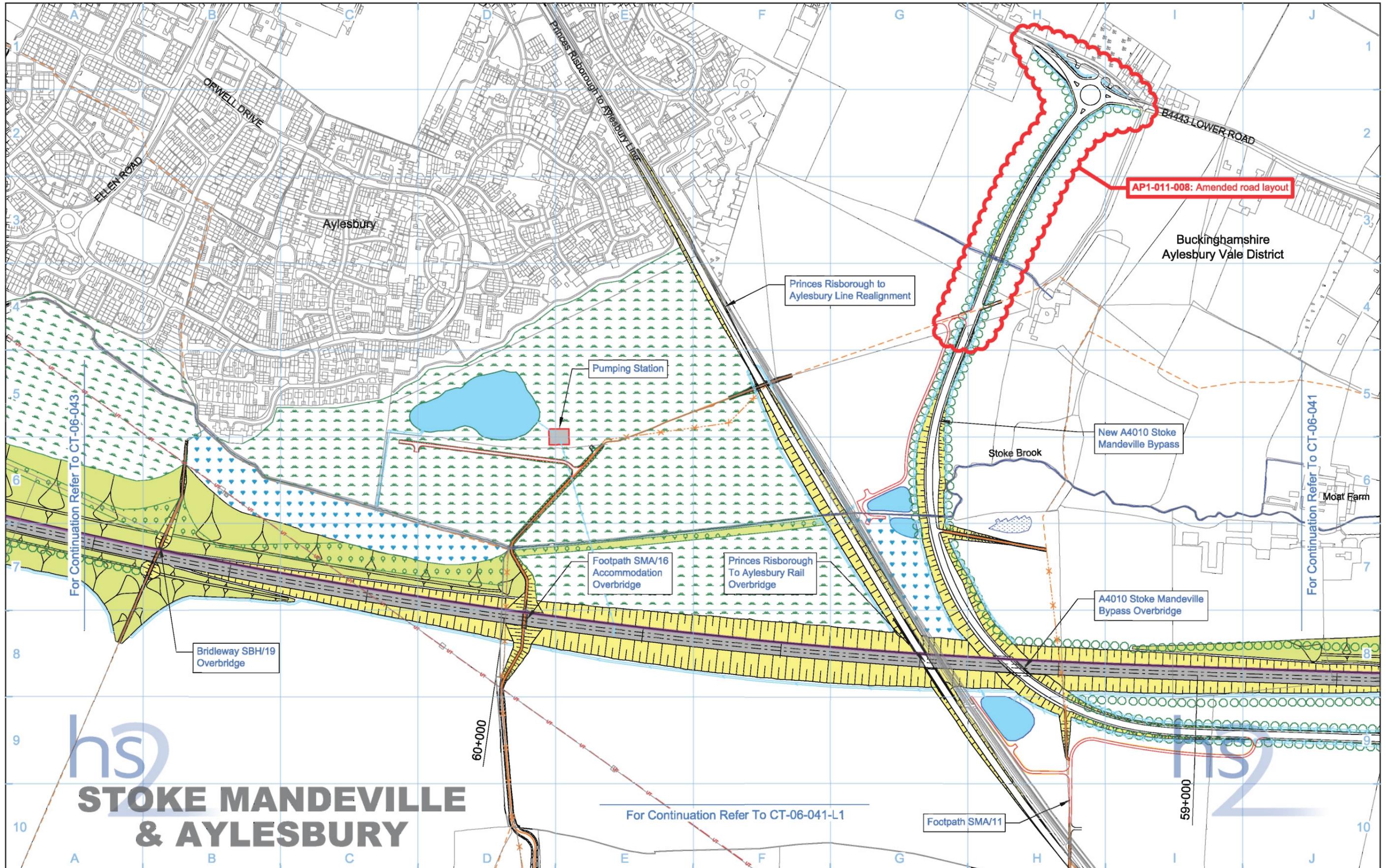
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland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

Map Number: **CT-06-042**

Map Name: **Proposed Scheme AP1**

Community Forum Area: **CFA11**
Stoke Mandeville and Aylesbury

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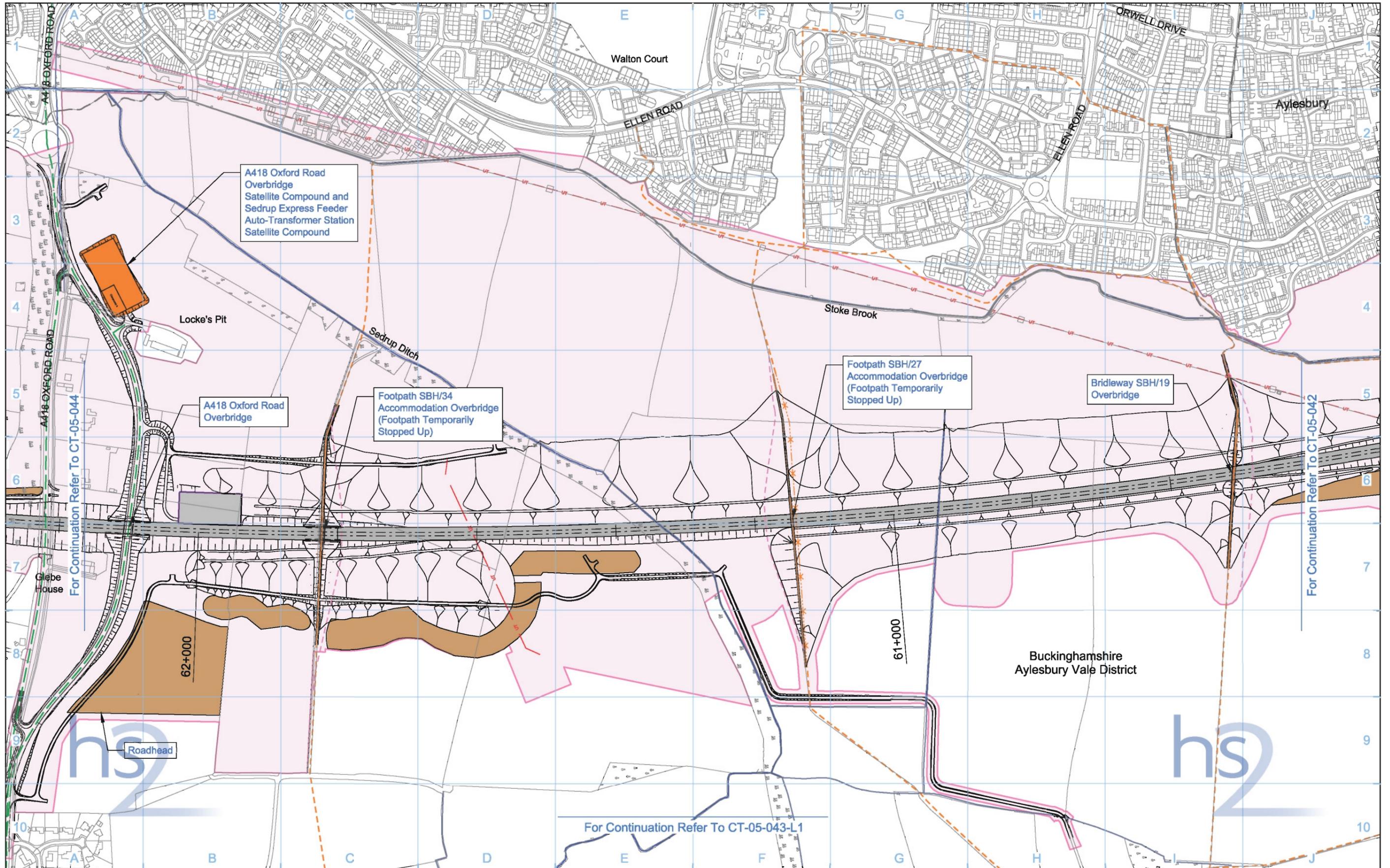
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Legend			
	Depot, station, headhouse or portal building		Rail alignment formation
	Tunnel portal		Landscape earthworks
	Main construction compound		Engineering earthworks
	Satellite construction compound		County boundary
	Temporary material stockpile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

Map Number	CT-05-043
Map Name	Construction Phase
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

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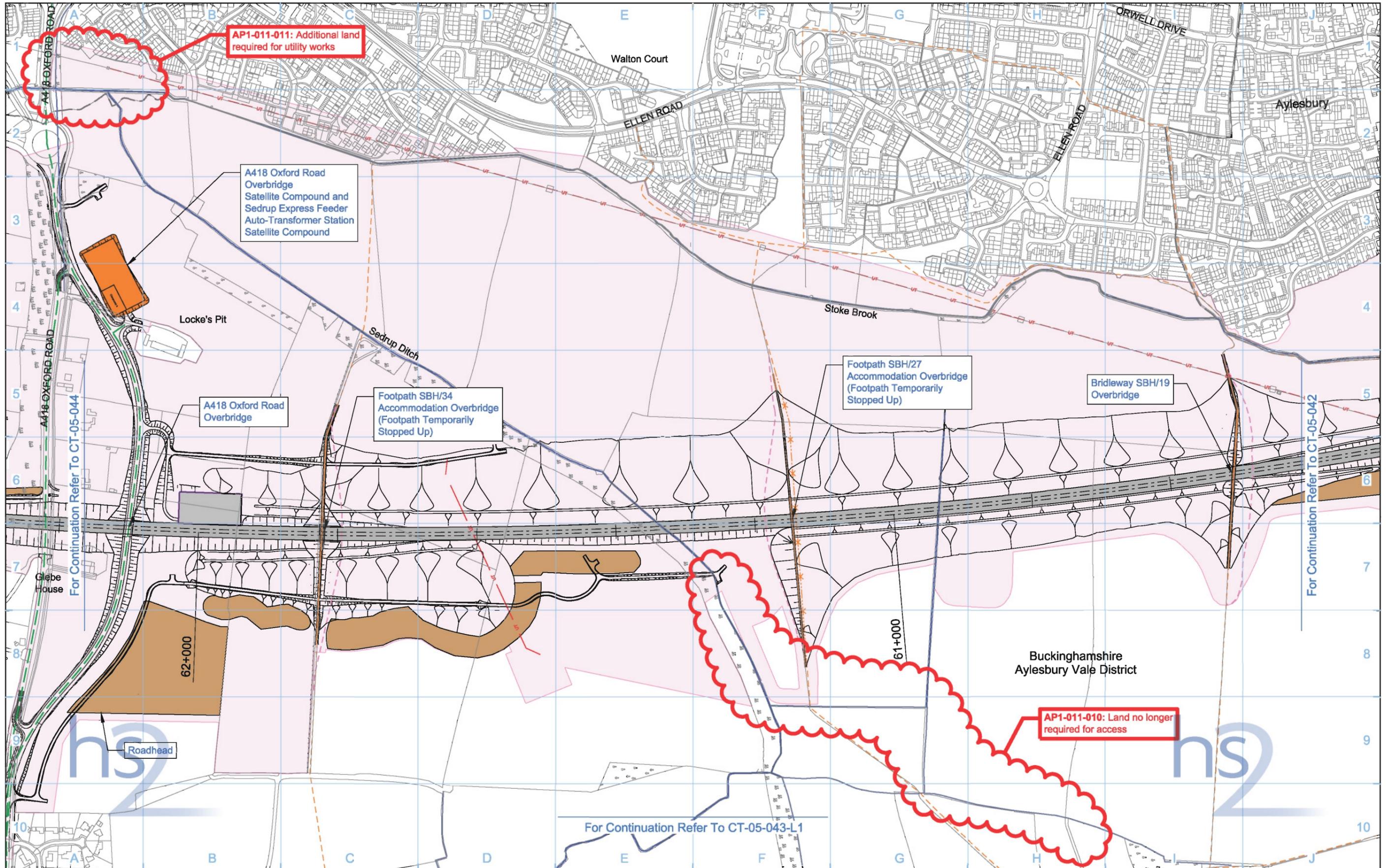
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Legend			
	Depot, station, headhouse or portal building		Community forum boundary
	Tunnel portal		Existing watercourse
	Main construction compound		Tunnels external extent
	Satellite construction compound		Construction traffic route
	Temporary material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

Map Number	CT-05-043
Map Name	Construction Phase AP1
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

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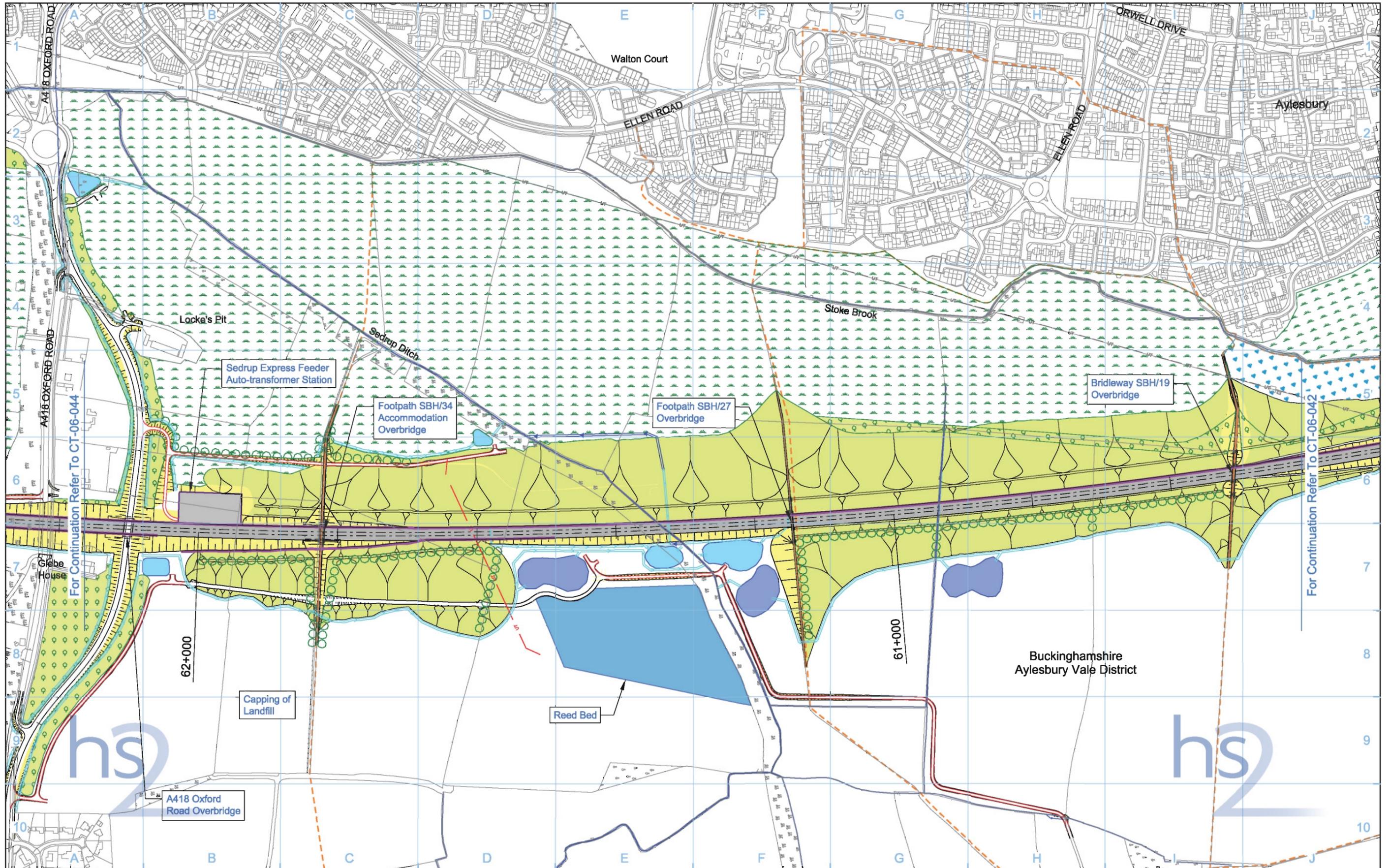
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Legend	
	Depot, station, headhouse or portal building
	Tunnel portal
	Electricity substation
	Land drainage area
	Ecological mitigation pond
	Balancing pond
	Replacement floodplain storage
	Woodland habitat creation
	Wetland habitat creation
	Grassland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

Map Number	CT-06-043
Map Name	Proposed Scheme
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

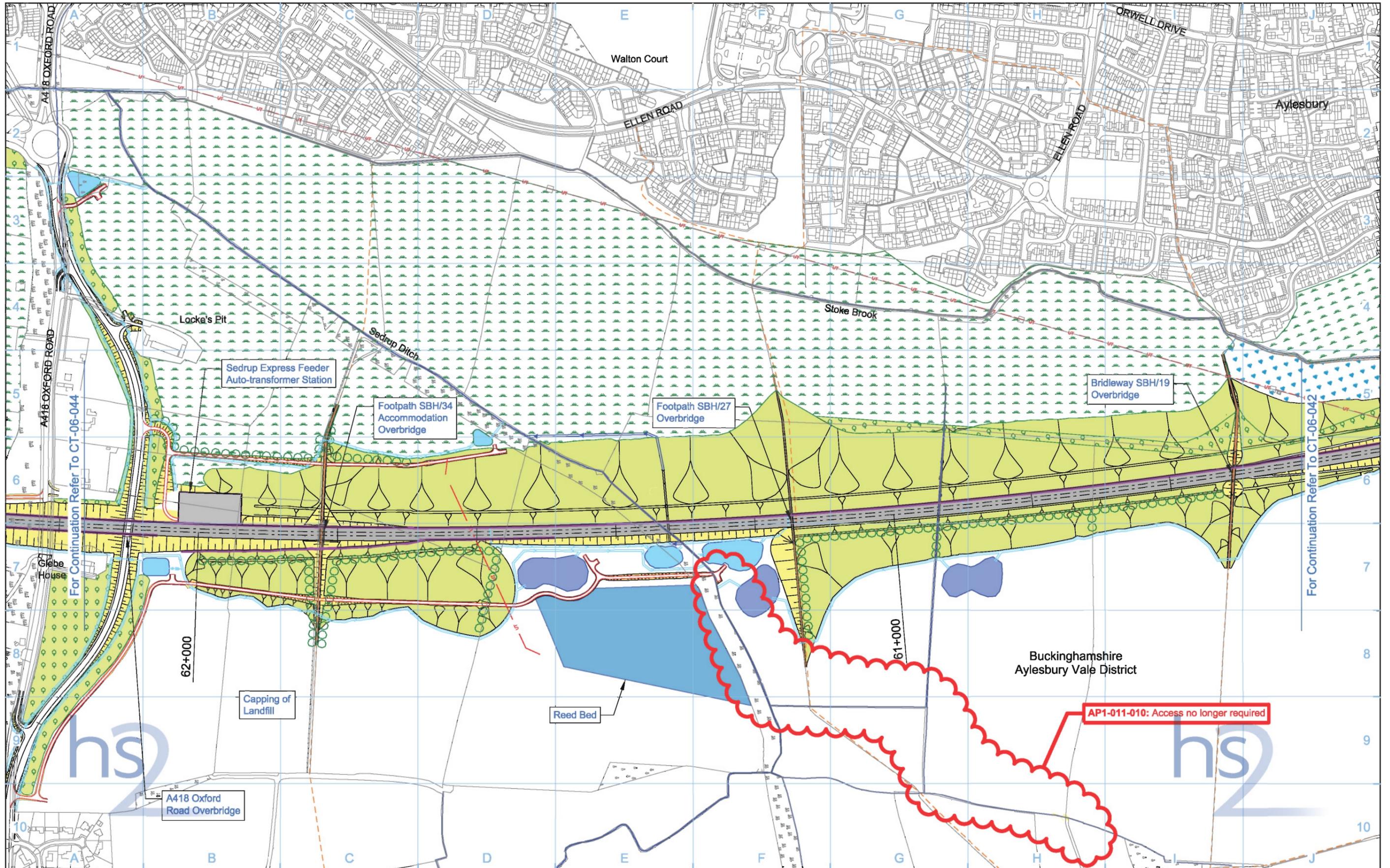
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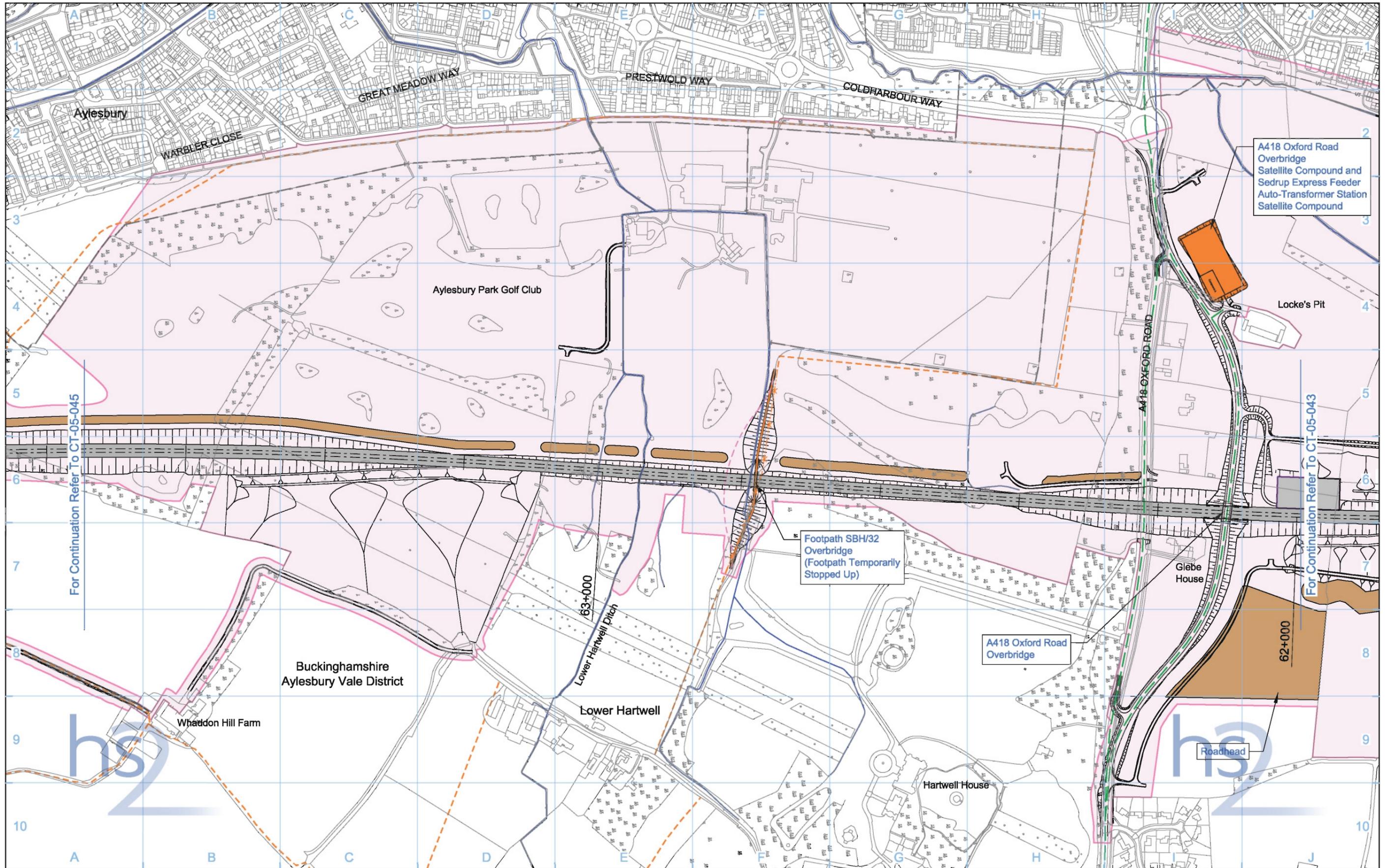
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Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Electricity substation Land drainage area Ecological mitigation pond Balancing pond 		<ul style="list-style-type: none"> Replacement floodplain storage Woodland habitat creation Wetland habitat creation Grassland habitat creation Landscape mitigation planting (scrub / woodland) Grassed areas Sustainable placement 		<ul style="list-style-type: none"> Public realm Engineering earthworks Landscape earthworks Rail alignment formation Returned to suitable development use County boundary Borough / District boundary 		<ul style="list-style-type: none"> Community forum boundary Watercourse diversion Existing watercourse Ditches - new Hedgerow habitat creation UT - Main utility works Existing public right of way (PRoW) New, diverted or realigned PRoW 		<ul style="list-style-type: none"> Stopped-up PRoW Tunnels external extent Rail alignment HS2 Access road Noise fence barrier Chainage (e.g. 10+000) 		Map Number CT-06-043 Map Name Proposed Scheme AP1 Community Forum Area CFA11 Stoke Mandeville and Aylesbury		<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: One Canada Square, London, E14 5AB</p> <p>Scale at A3: 1:5,000</p> <p>© Crown copyright and database rights 2014. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C222-ATK-EV-DPL-020-061105-AP01 P04 Date: 24/07/14</p>	
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Legend			
	Rail alignment formation		Community forum boundary
	Depot, station, headhouse or portal building		Existing watercourse
	Tunnel portal		Tunnels external extent
	Main construction compound		Construction traffic route
	Satellite construction compound		Existing public right of way (PRoW)
	Temporary material stockpile		New, diverted or realigned PRoW
	Landscape earthworks		County boundary
	Engineering earthworks		Borough / District boundary
	Engineering earthworks		Land potentially required during construction
	Stopped-up PRoW		Temporary PRoW diversion / realignment
	Temporary PRoW diversion / realignment		Temporary highway diversion / realignment
	Temporary highway diversion / realignment		Main utility works

	Chainage (e.g. 10+000)
	Rail alignment

Map Number	CT-05-044
Map Name	Construction Phase
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

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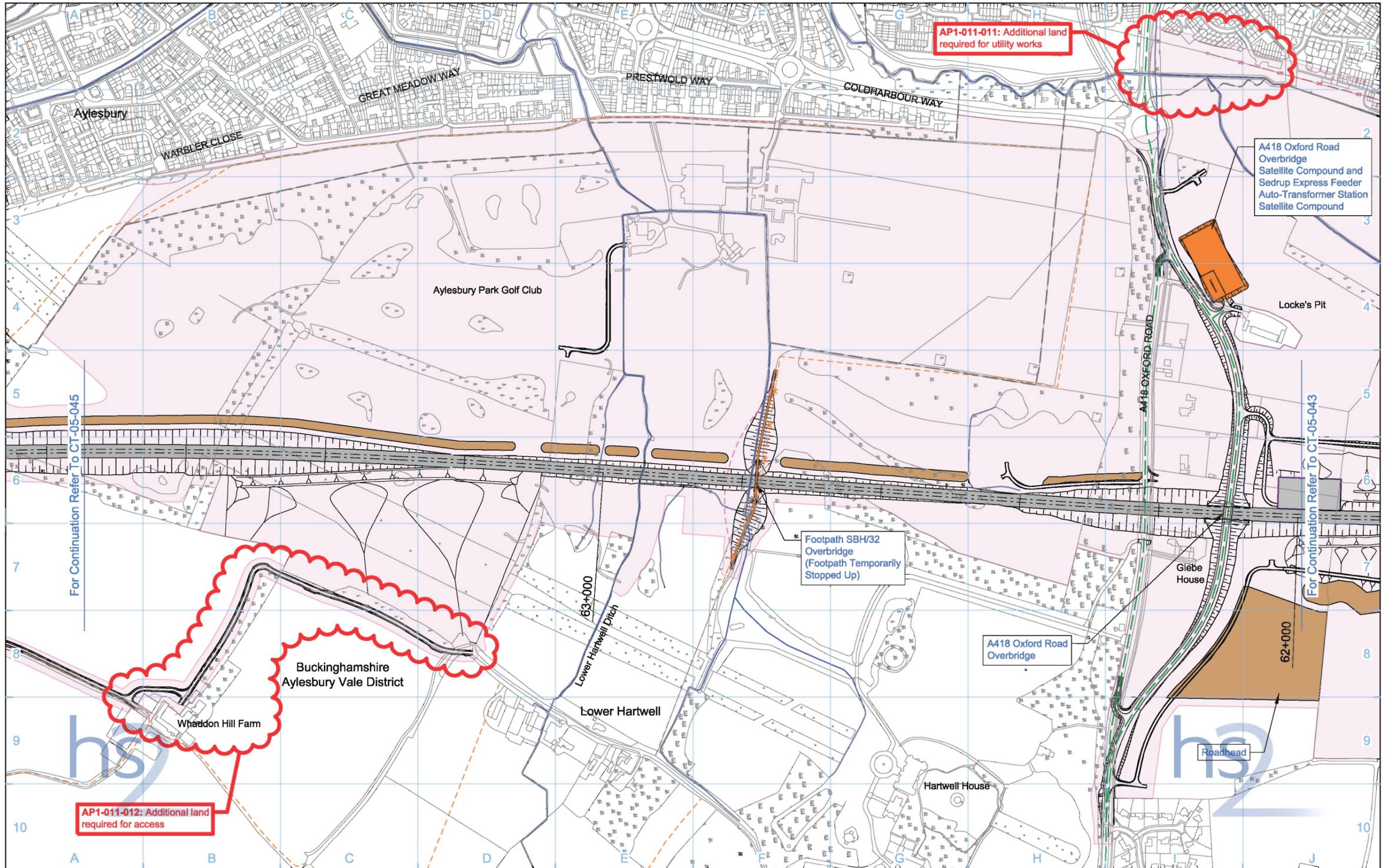
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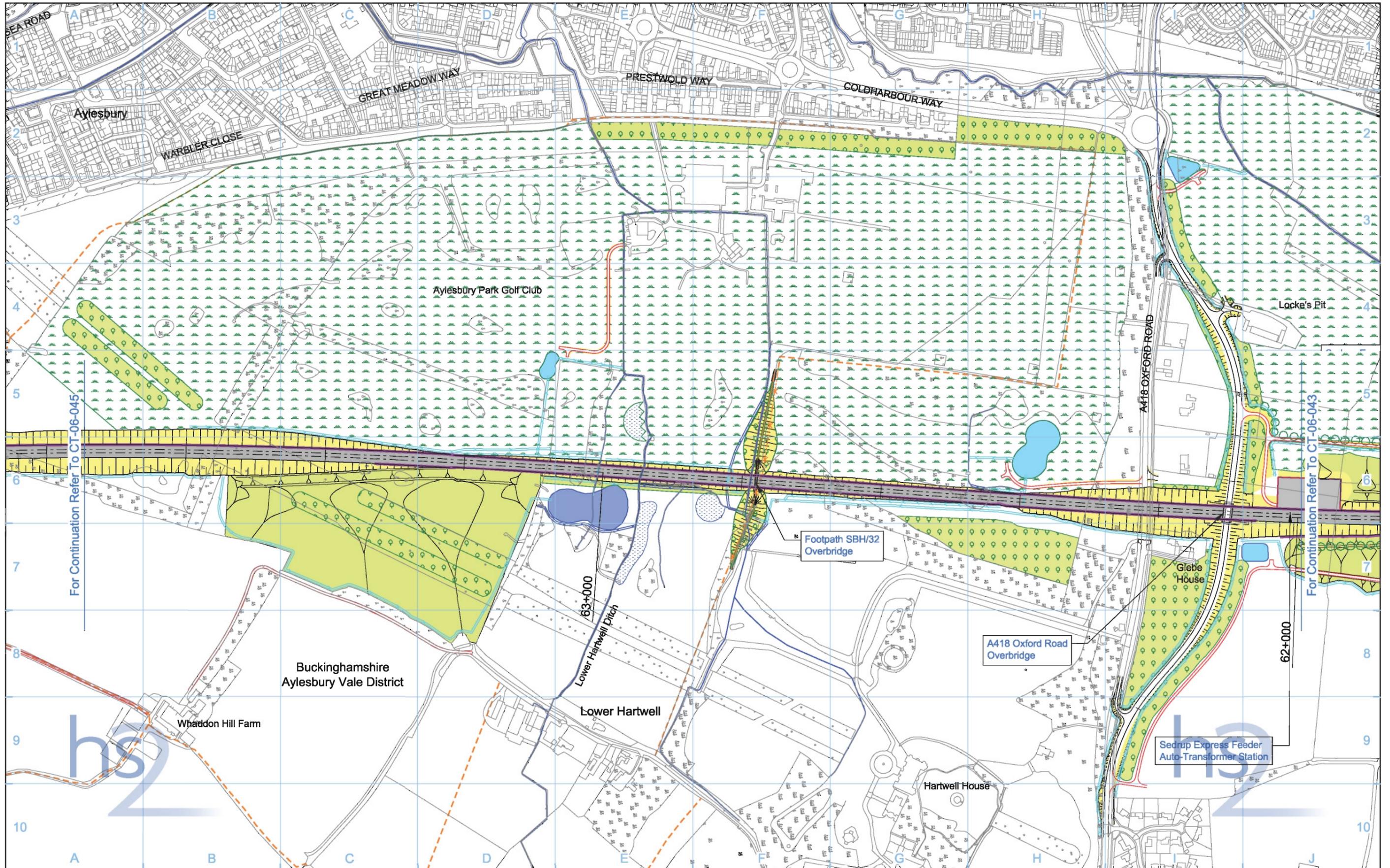
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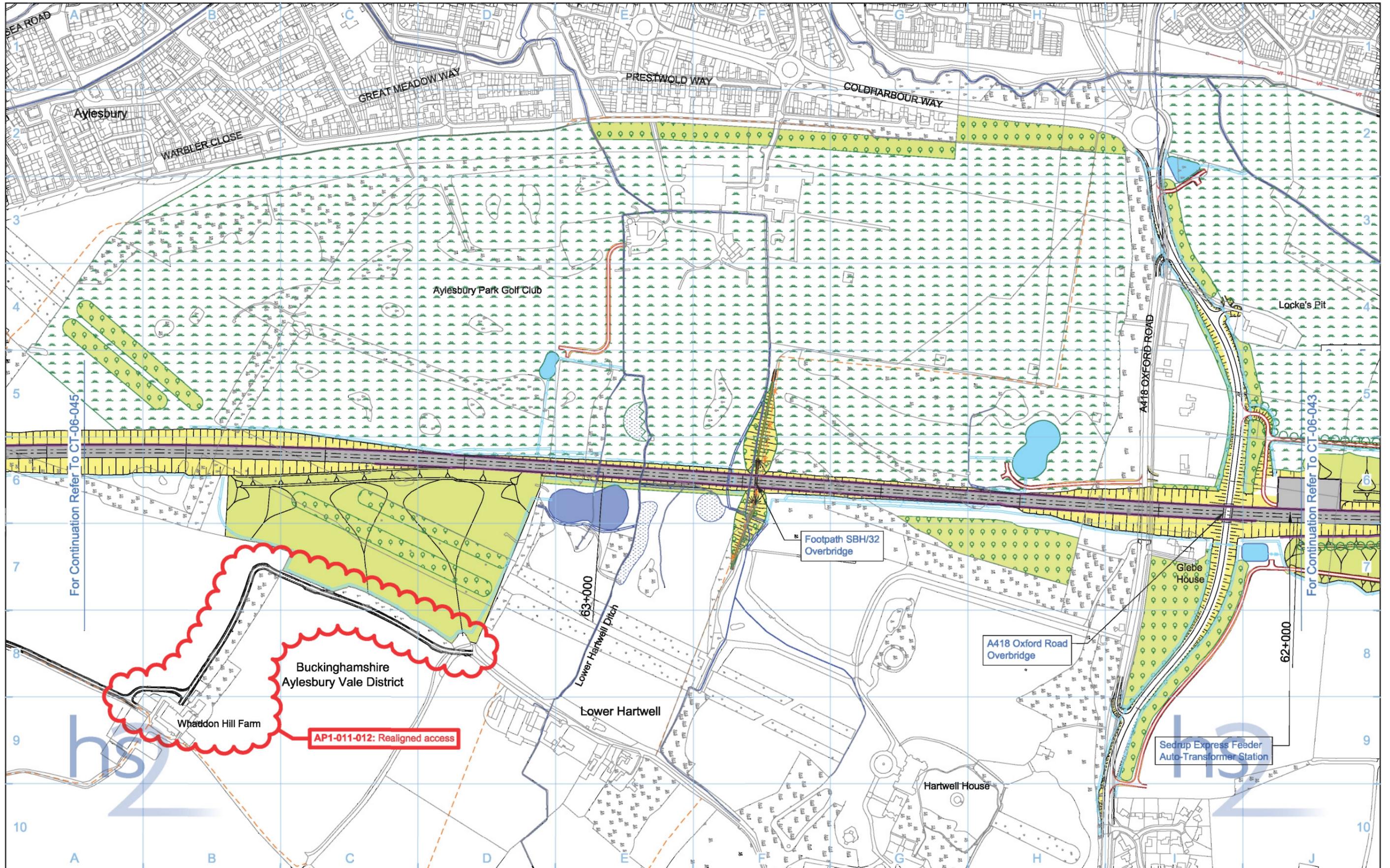
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Legend <ul style="list-style-type: none"> Depot, station, headhouse or portal building Tunnel portal Main construction compound Satellite construction compound Temporary material stockpile Rail alignment formation Landscape earthworks Engineering earthworks County boundary Borough / District boundary Land potentially required during construction Community forum boundary Existing watercourse Tunnels external extent Construction traffic route Existing public right of way (PRoW) New, diverted or realigned PRoW Stopped-up PRoW Temporary PRoW diversion / realignment Temporary highway diversion / realignment Main utility works Chainage (e.g. 10+000) Rail alignment 		Map Number CT-05-044 Map Name Construction Phase AP1 Community Forum Area CFA11 Stoke Mandeville and Aylesbury	<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: One Canada Square, London, E14 5AB</p> <p>Scale at A3: 1:5,000</p> <p>© Crown copyright and database rights 2014. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C222-ATK-EV-DPL-020-051106-AP01 P04 Date: 24/07/14</p>
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Legend 		Map Number CT-06-044 Map Name Proposed Scheme Community Forum Area CFA11 Stoke Mandeville and Aylesbury	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England, Registration number 06791686 Registered office: Eland House, Bressenden Place, London SW1E 6DU Scale at A3: 1:5,000 0 50 100 150 200 250 Metres © Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190. Doc Number: C222-ATK-EV-DPL-020-061106 P03 Date: 22/10/13
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- Legend**
- Depot, station, headhouse or portal building
 - Tunnel portal
 - Electricity substation
 - Land drainage area
 - Ecological mitigation pond
 - Balancing pond

- Replacement floodplain storage
- Woodland habitat creation
- Wetland habitat creation
- Grassland habitat creation
- Landscape mitigation planting (scrub / woodland)
- Grassed areas
- Sustainable placement

- Public realm
- Engineering earthworks
- Landscape earthworks
- Rail alignment formation
- Returned to suitable development use
- County boundary
- Borough / District boundary

- Community forum boundary
- Watercourse diversion
- Existing watercourse
- Ditches - new
- Hedgerow habitat creation
- Main utility works
- Existing public right of way (PRoW)
- New, diverted or realigned PRoW

- Stopped-up PRoW
- Tunnels external extent
- Rail alignment
- HS2 Access road
- Noise fence barrier
- Chainage (e.g. 10+000)

Map Number: **CT-06-044**

Map Name: **Proposed Scheme AP1**

Community Forum Area: CFA11
Stoke Mandeville and Aylesbury

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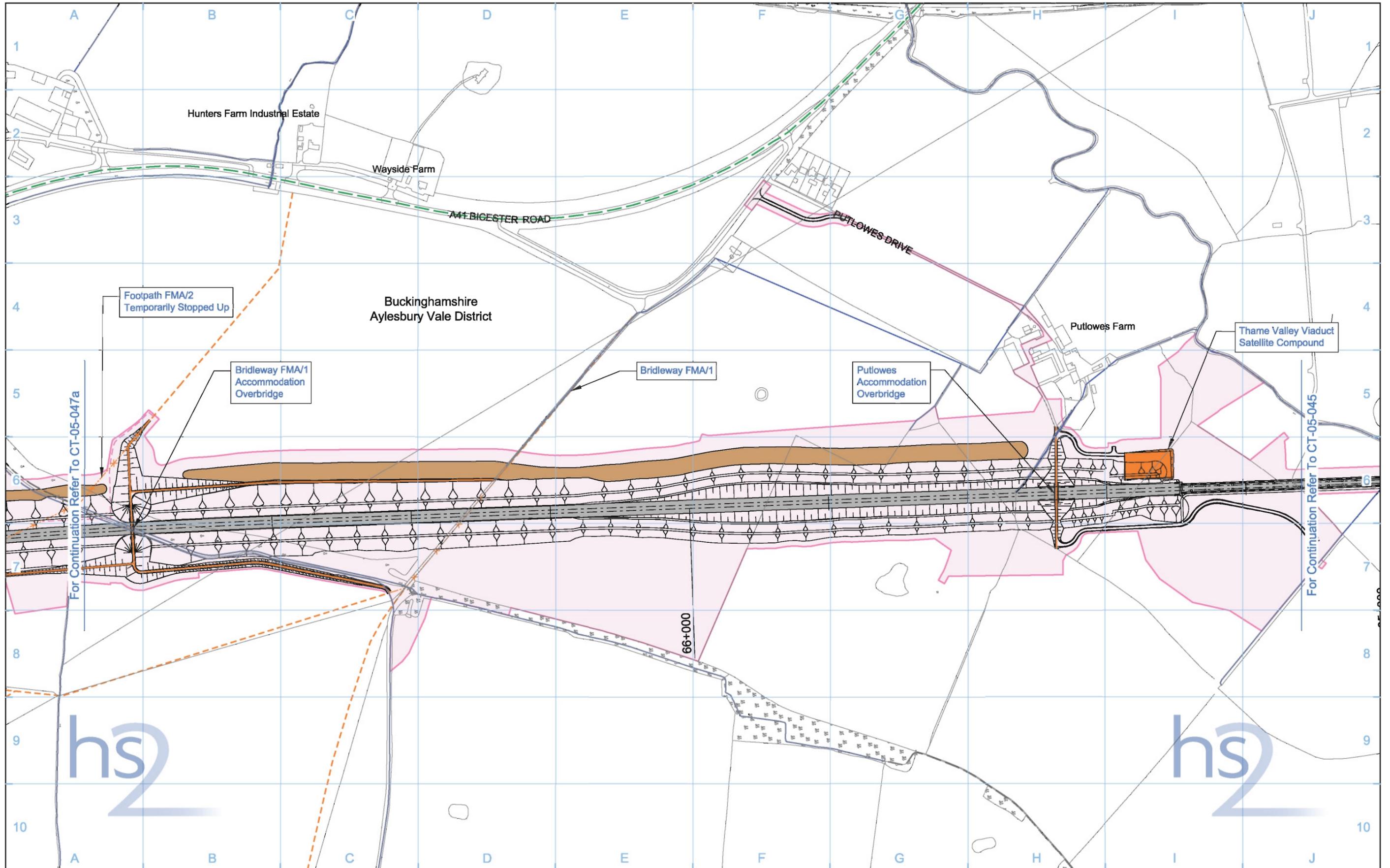
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Date: 24/07/14



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

Map Number	CT-05-046
Map Name	Construction Phase
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

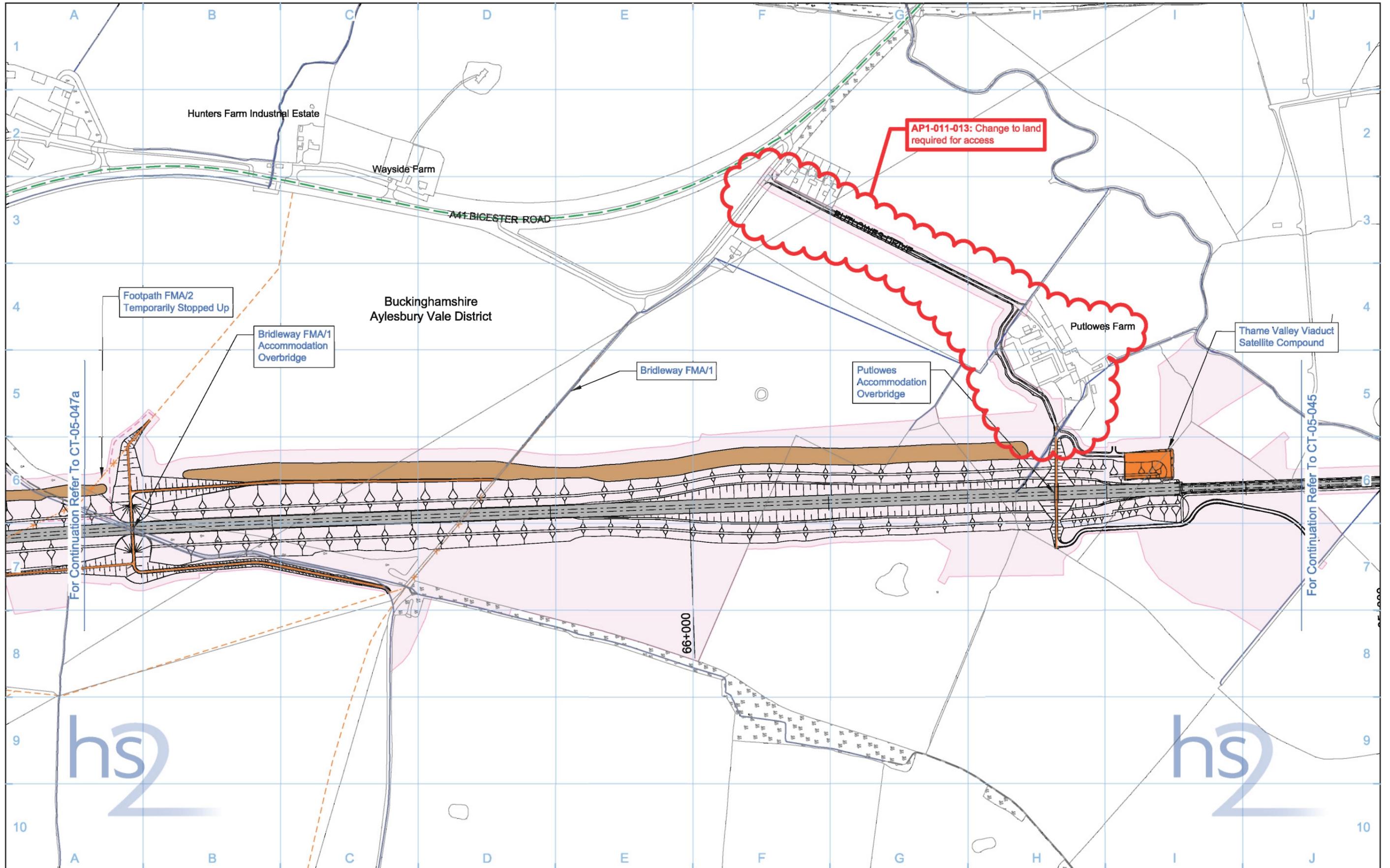
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Legend			
	Depot, station, headhouse or portal building		Rail alignment formation
	Tunnel portal		Landscape earthworks
	Main construction compound		Engineering earthworks
	Satellite construction compound		County boundary
	Temporary material stockpile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

Map Number	CT-05-046
Map Name	Construction Phase AP1
Community Forum Area	CFA11 Stoke Mandeville and Aylesbury

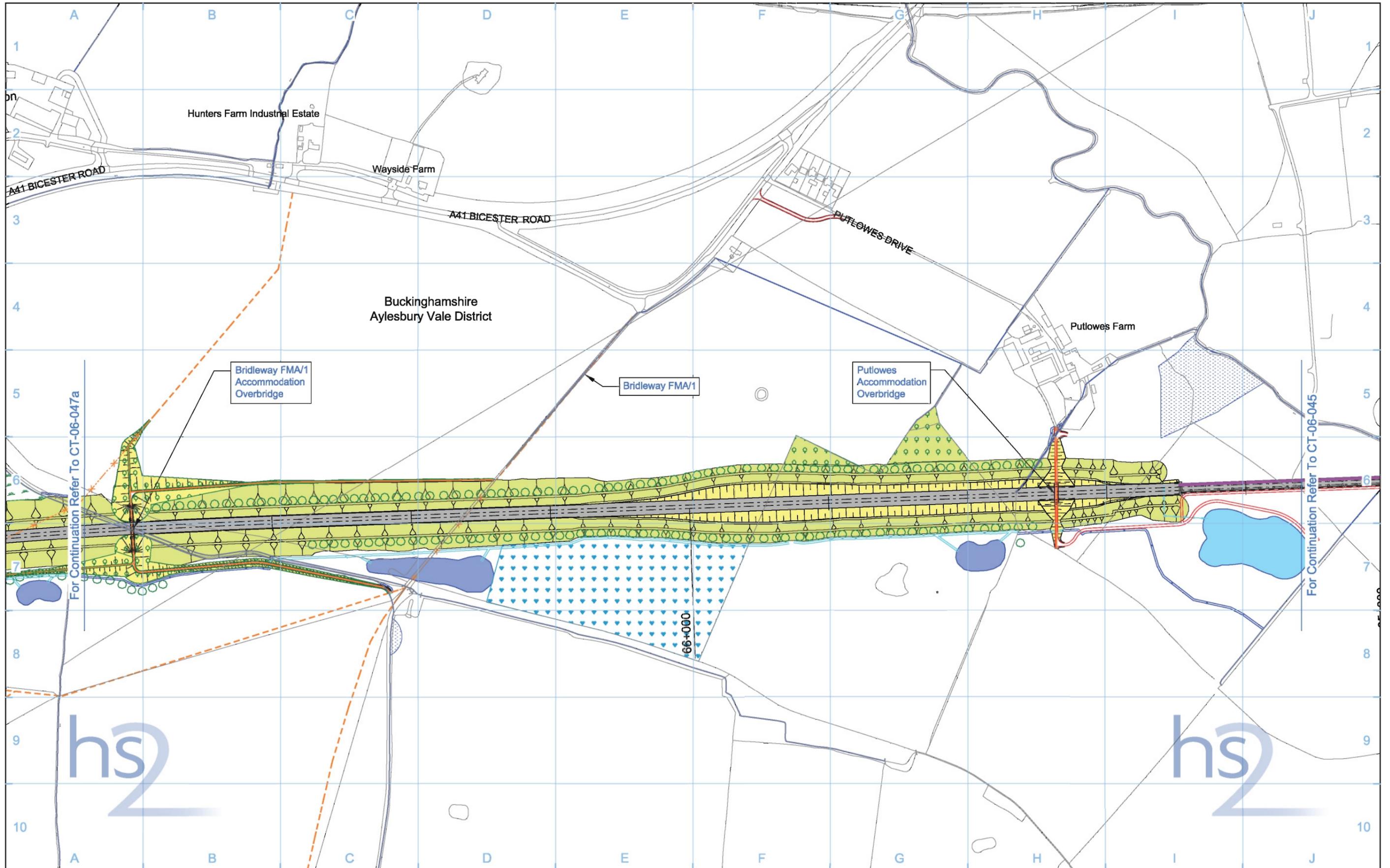
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Doc Number: C222-ATK-EV-DPL-020-051108-AP01 P04 **Date:** 24/07/14



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

Map Number: **CT-06-046**

Map Name: **Proposed Scheme**

Community Forum Area: **CFA11**
Stoke Mandeville and Aylesbury

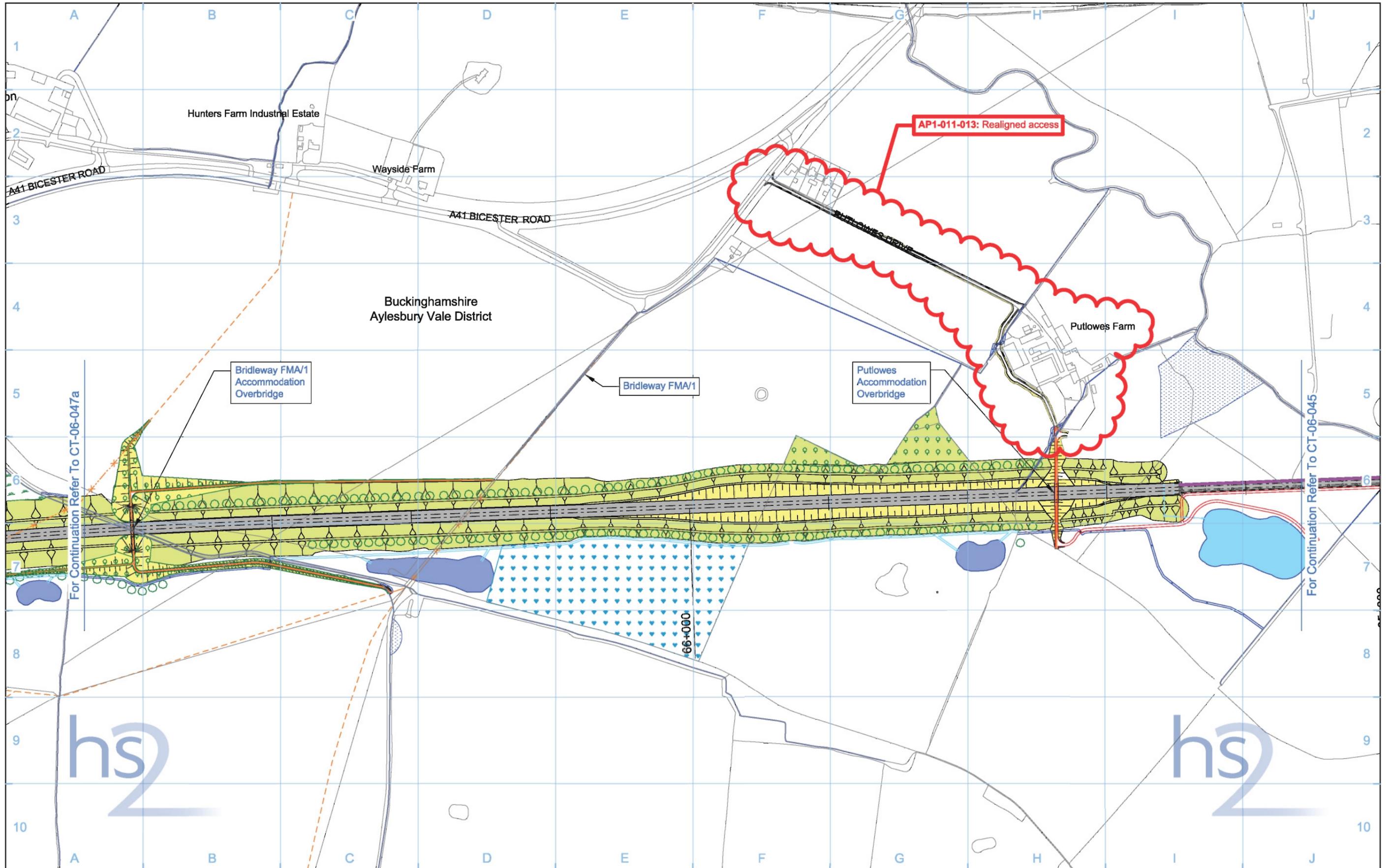
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Legend 		Map Number CT-06-046 Map Name Proposed Scheme AP1 Community Forum Area CFA11 Stoke Mandeville and Aylesbury	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England, Registration number 06791686 Registered office: One Canada Square, London, E14 5AB Scale at A3: 1:5,000 © Crown copyright and database rights 2014. Ordnance Survey Licence Number 100049190. Doc Number: C222-ATK-EV-DPL-020-061108-AP01 P04 Date: 24/07/14
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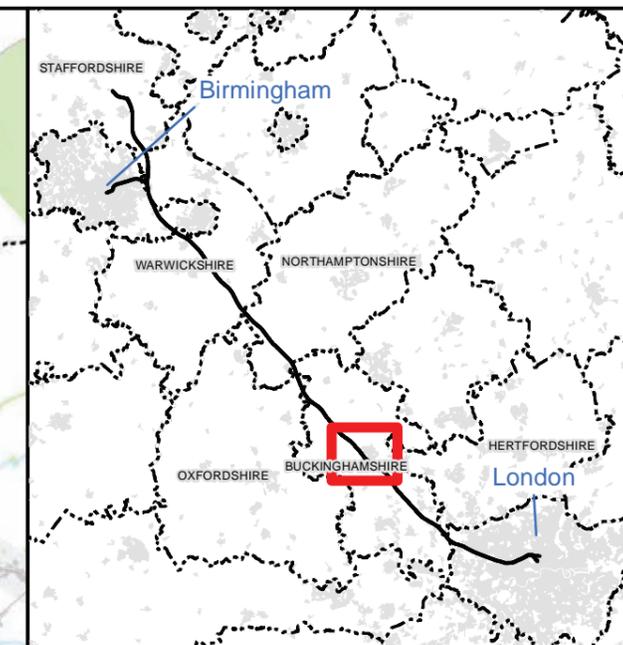
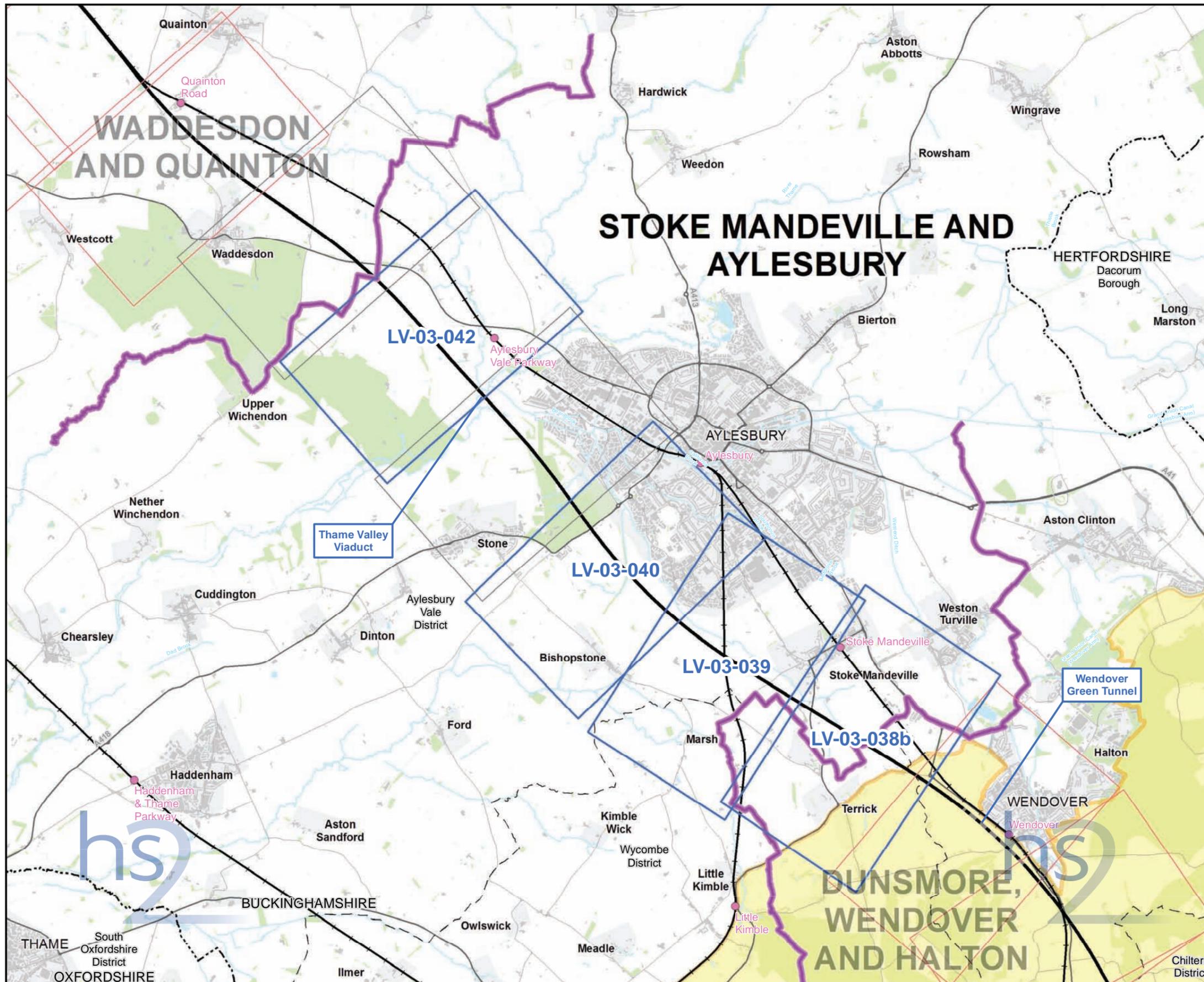
HIGH SPEED RAIL (LONDON - WEST MIDLANDS) ADDITIONAL PROVISION

Environmental Statement

LV-03 - Construction Phase Significantly Affected Viewpoints

LV-04 - Operational Phase Significantly Affected Viewpoints

September 2014



Map Series Information:

Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the construction phase.

Main Map Legend

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

Map Number	LV-03-INDEX-CFA11
Map Name	Index Map of: Construction Phase Significantly Affected Viewpoints AP1
Community Forum Area CFA11: Stoke Mandeville and Aylesbury	

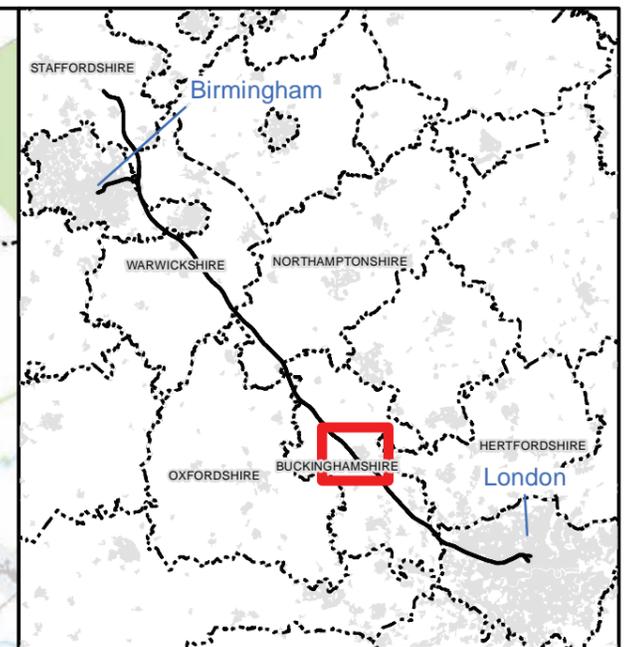
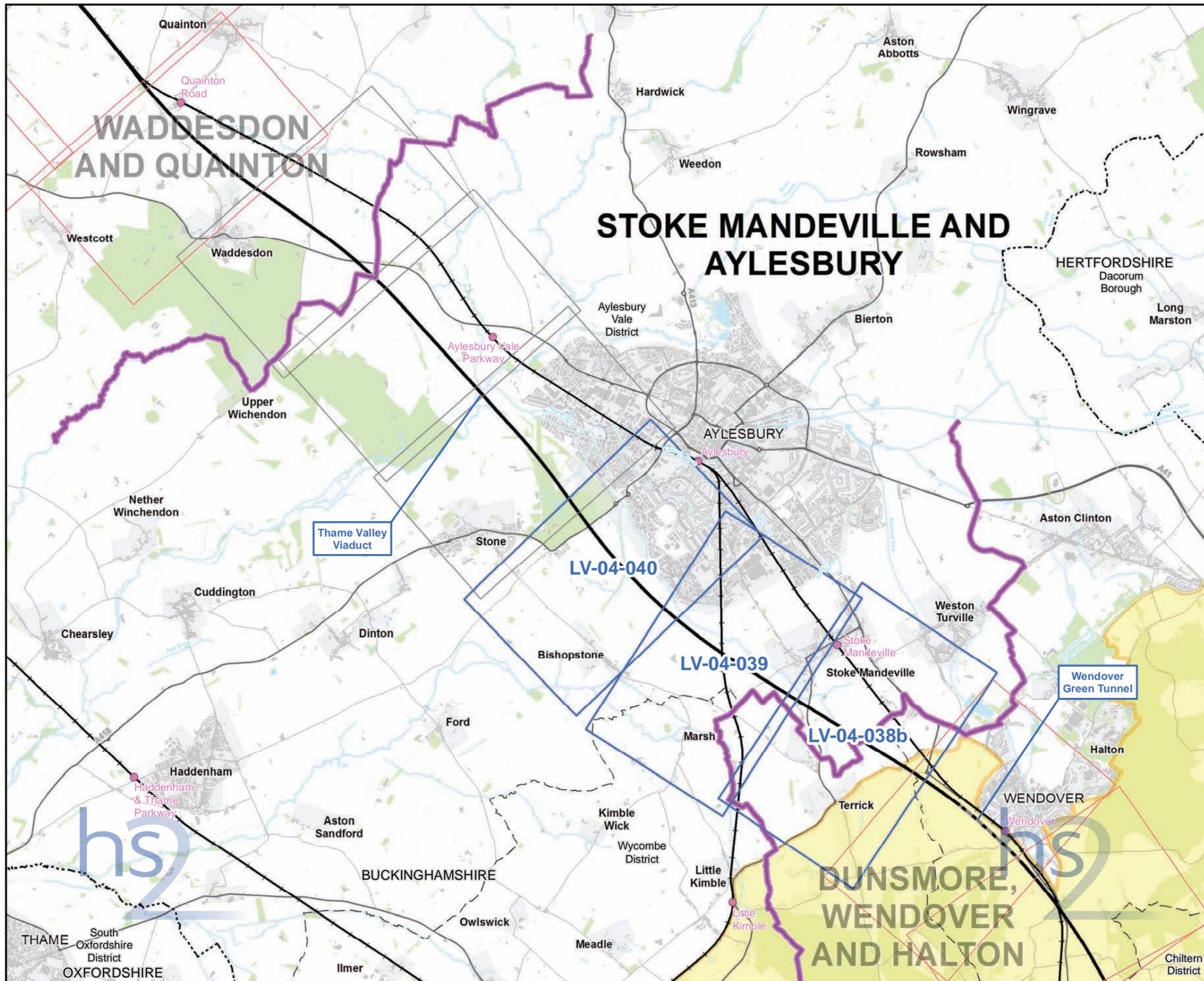
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Map Series Information:

Maps showing the viewpoint locations from which the Proposed Scheme has been assessed to give rise to significant effects during the operational phase.

Main Map Legend

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

Map Number	LV-04-INDEX-CFA11
Map Name	Index Map of: Operational Phase Significantly Affected Viewpoints AP1
Community Forum Area CFA11: Stoke Mandeville and Aylesbury	

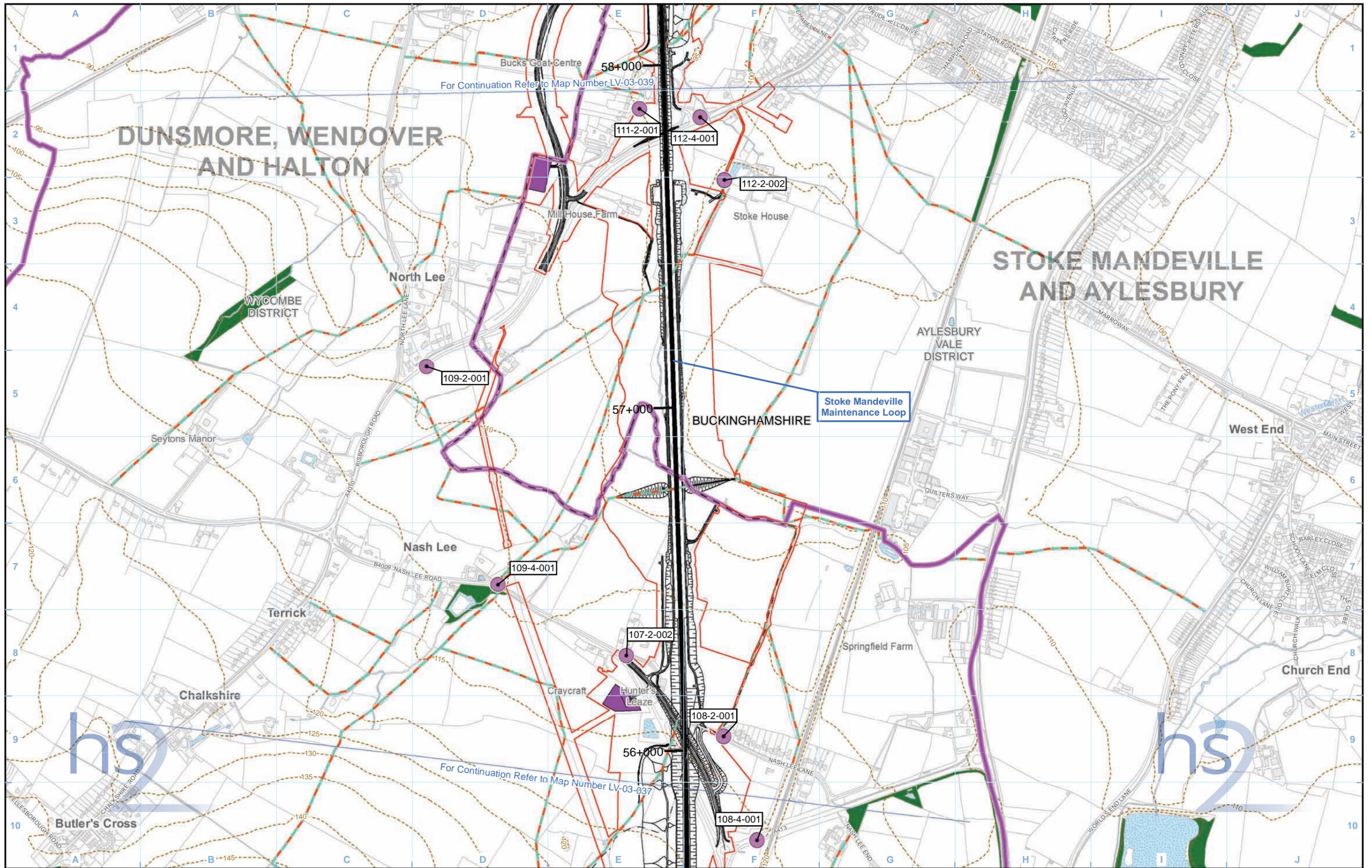
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Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community forum boundary
	County boundary
	District/Borough boundary
	Public Rights of Way
	5m contours
	Water body
	Watercourse
	Existing woodland and tree belts
	Construction compounds
	Significantly affected viewpoint
	Photomontage location
	Viewpoint number

Engineering earthworks:	
	Embankment
	Cutting
Non engineering earthworks:	
	Embankment
	Cutting

Map Number	LV-03-038b
Map Name	Construction Phase Significantly Affected Viewpoints
Community Forum Area CFA11: Stoke Mandeville and Aylesbury	

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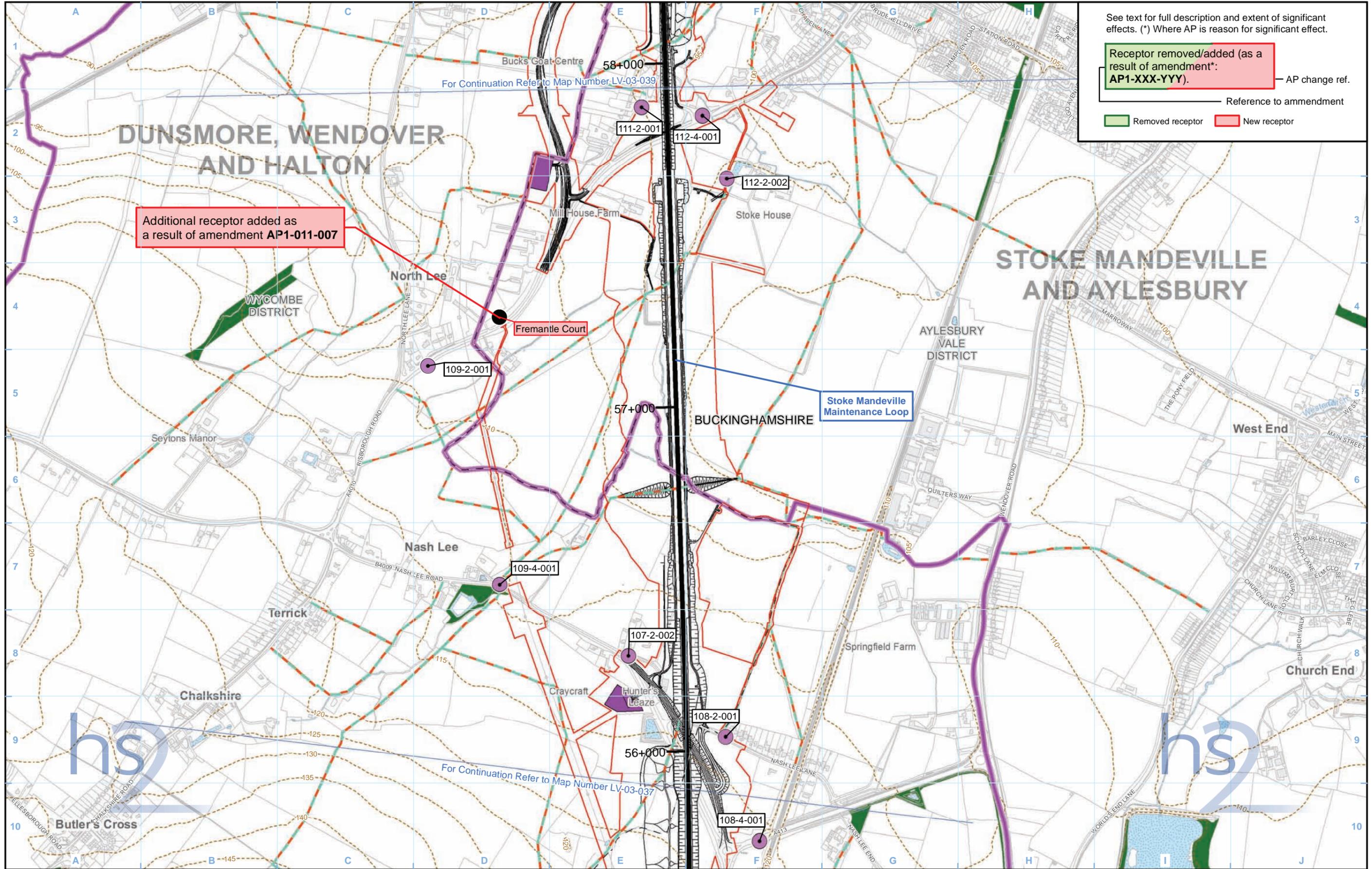
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Metres

Date: 30/10/13



See text for full description and extent of significant effects. (*) Where AP is reason for significant effect.

Receptor removed/added (as a result of amendment*: AP1-XXX-YYY). — AP change ref.

— Reference to amendment

Removed receptor New receptor

Additional receptor added as a result of amendment AP1-011-007

Stoke Mandeville Maintenance Loop

For Continuation Refer to Map Number LV-03-037

For Continuation Refer to Map Number LV-03-039

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community forum boundary
	County boundary
	District/Borough boundary
	Public Rights of Way
	5m contours
	Water body
	Watercourse
	Existing woodland and tree belts
	Construction compounds
	Significantly affected viewpoint
	Photomontage location
	Viewpoint number
	Engineering earthworks: Embankment
	Engineering earthworks: Cutting
	Non engineering earthworks: Embankment
	Non engineering earthworks: Cutting
	Additional receptor

Map Number	LV-03-038b
Map Name	Construction Phase Significantly Affected Viewpoints AP1
	Community Forum Area CFA11: Stoke Mandeville and Aylesbury

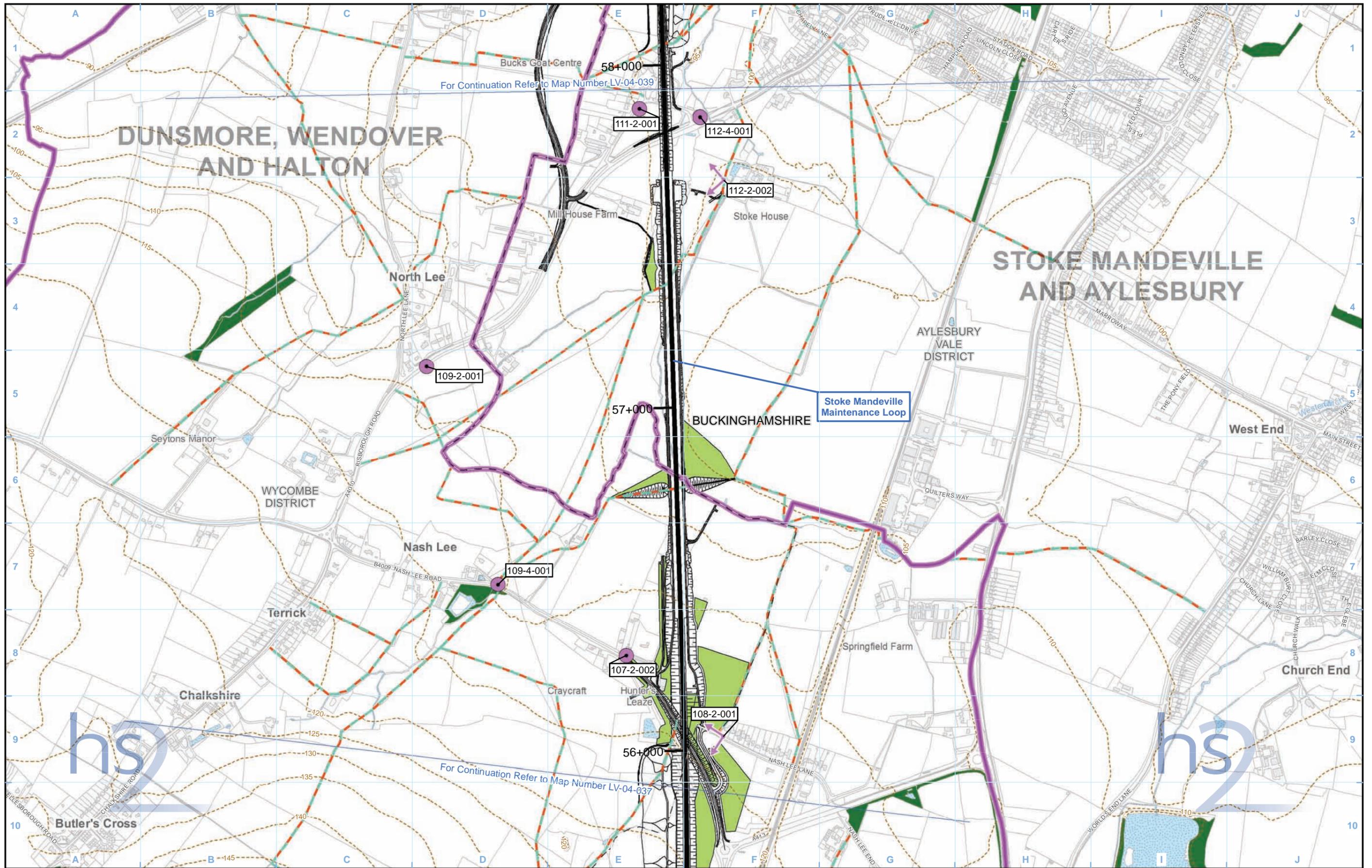
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Legend

			Engineering earthworks:
			Non engineering earthworks:

	Embankment
	Cutting
	Embankment
	Cutting

Map Number	LV-04-038b
Map Name	Operational Phase Significantly Affected Viewpoints
Community Forum Area CFA11: Stoke Mandeville and Aylesbury	

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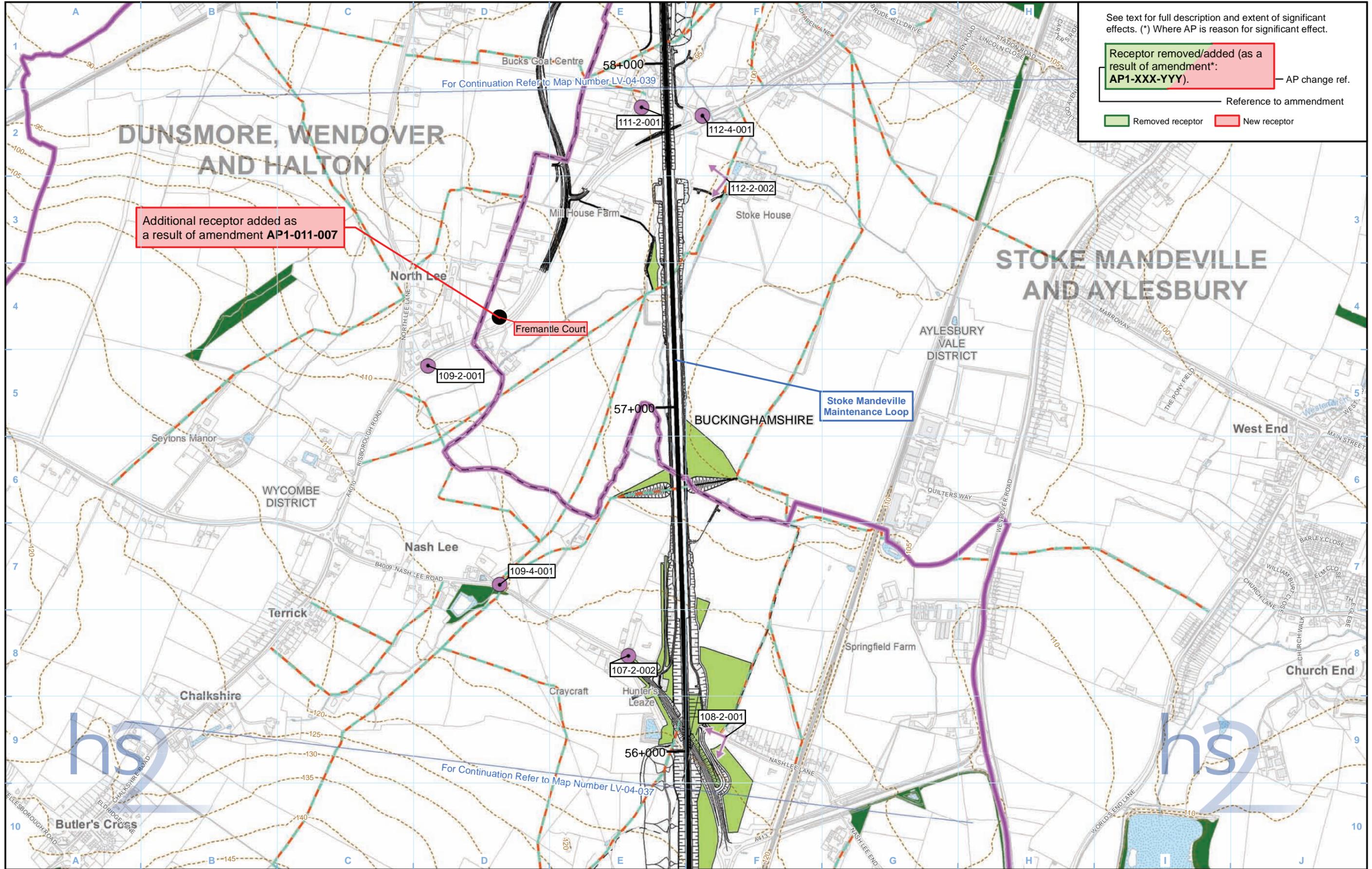
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Receptor removed/added (as a result of amendment*: AP1-XXX-YYY). — AP change ref.

— Reference to amendment

Removed receptor New receptor

Legend		Engineering earthworks:		Non engineering earthworks:	
	Route in tunnel		Public Rights of Way		Significantly affected viewpoint
	Route on surface		5m contours		Photomontage location
	Depot, station, headhouse or portal building		Water body		Viewpoint number
	Community forum boundary		Watercourse		Embarkment
	County boundary		Existing woodland and tree belts		Cutting
	District/Borough boundary		Proposed tree planting		Embarkment
					Cutting
					Additional receptor

Map Number: LV-04-038b

Map Name: Operational Phase Significantly Affected Viewpoints AP1

Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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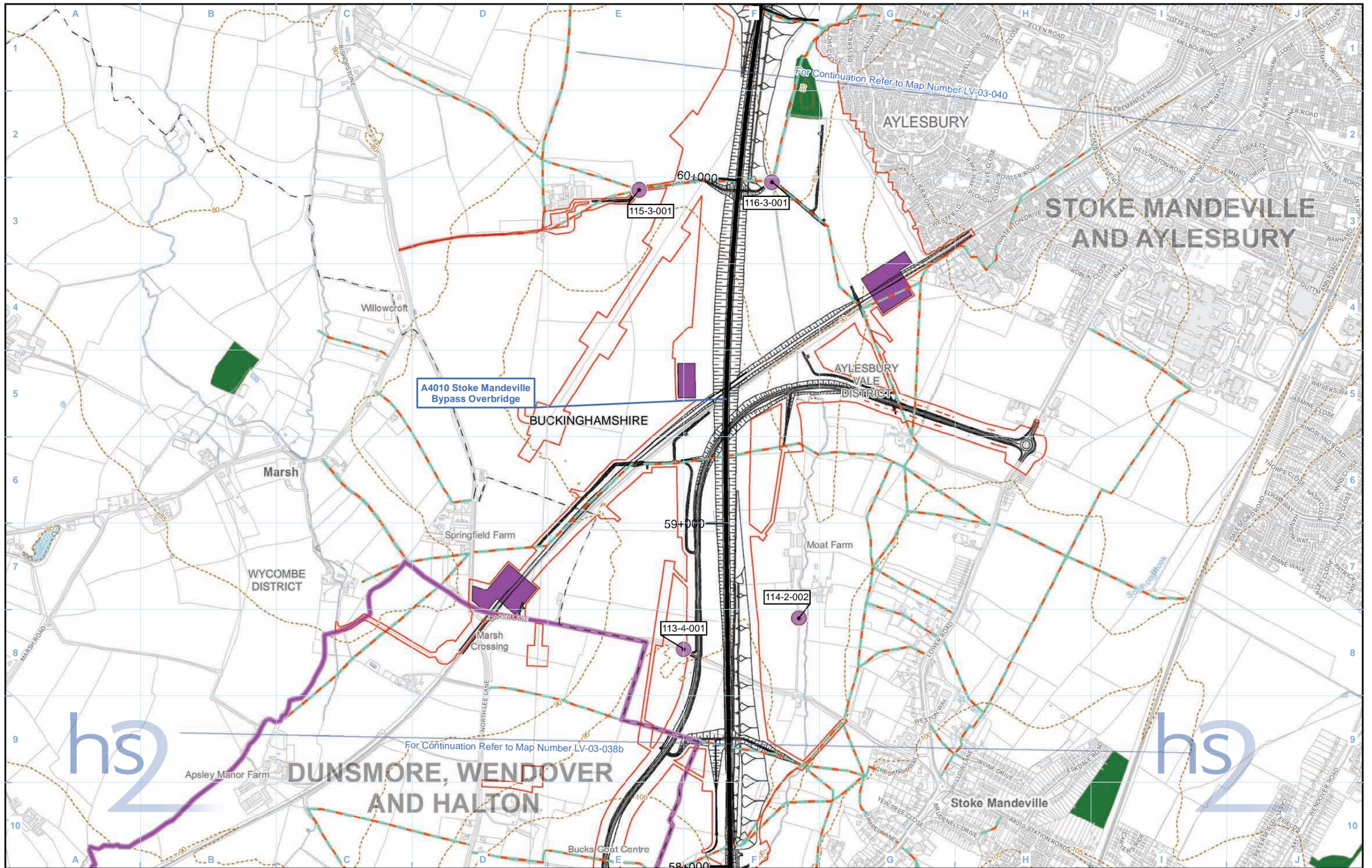
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Date: 20/08/14



Legend

Engineering earthworks:

	Embankment
	Cutting

Non engineering earthworks:

	Embankment
	Cutting

Map Number	LV-03-039
Map Name	Construction Phase Significantly Affected Viewpoints
Community Forum Area CFA11: Stoke Mandeville and Aylesbury	

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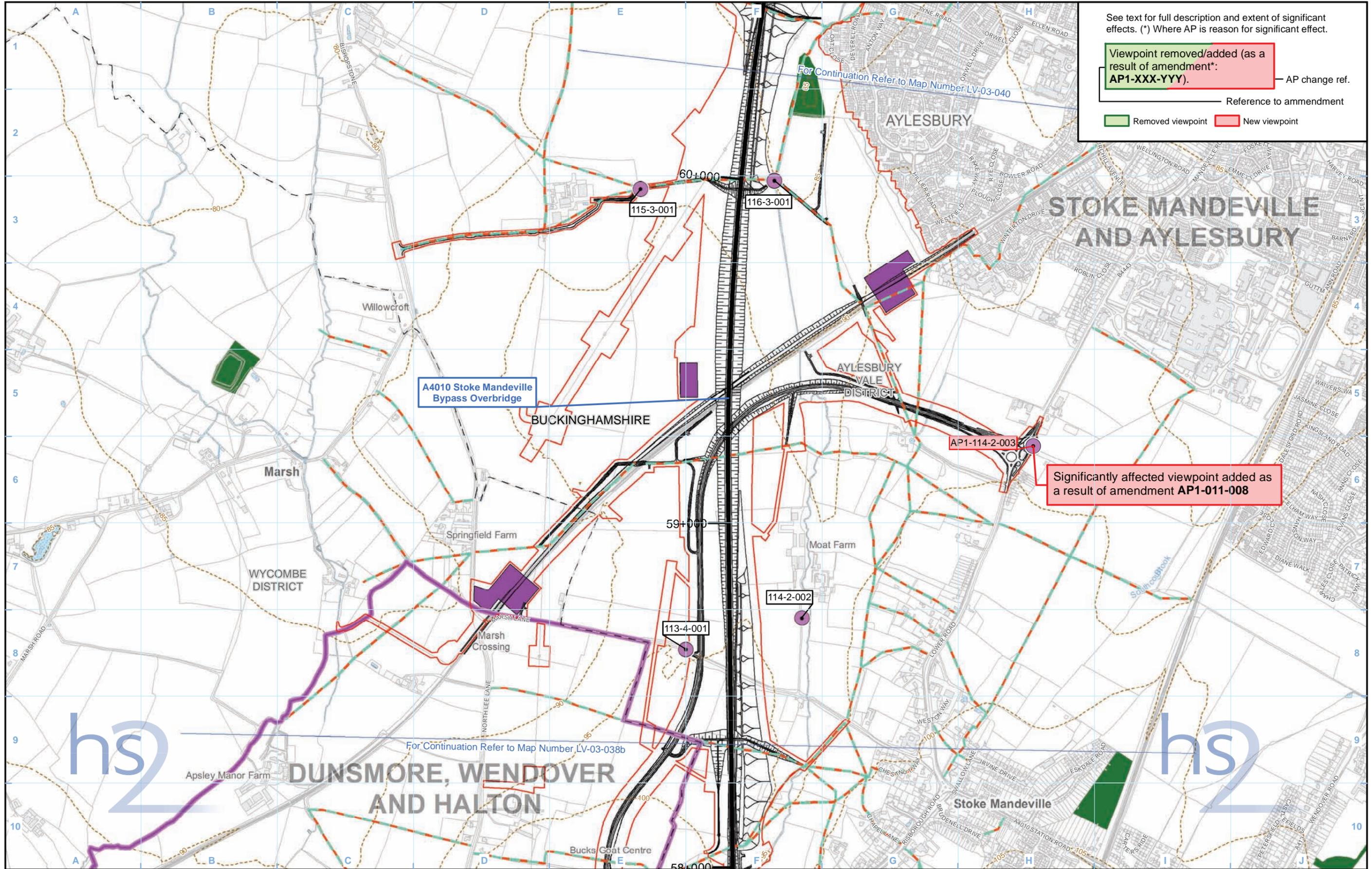
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Viewpoint removed/added (as a result of amendment*: AP1-XXX-YYY). — AP change ref.

— Reference to amendment

Removed viewpoint New viewpoint

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community forum boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way
 - 5m contours
 - Water body
 - Watercourse
 - Existing woodland and tree belts
 - Construction compounds
 - Significantly affected viewpoint
 - Photomontage location
 - Viewpoint number

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

Map Number LV-03-039

Map Name Construction Phase Significantly Affected Viewpoints AP1

Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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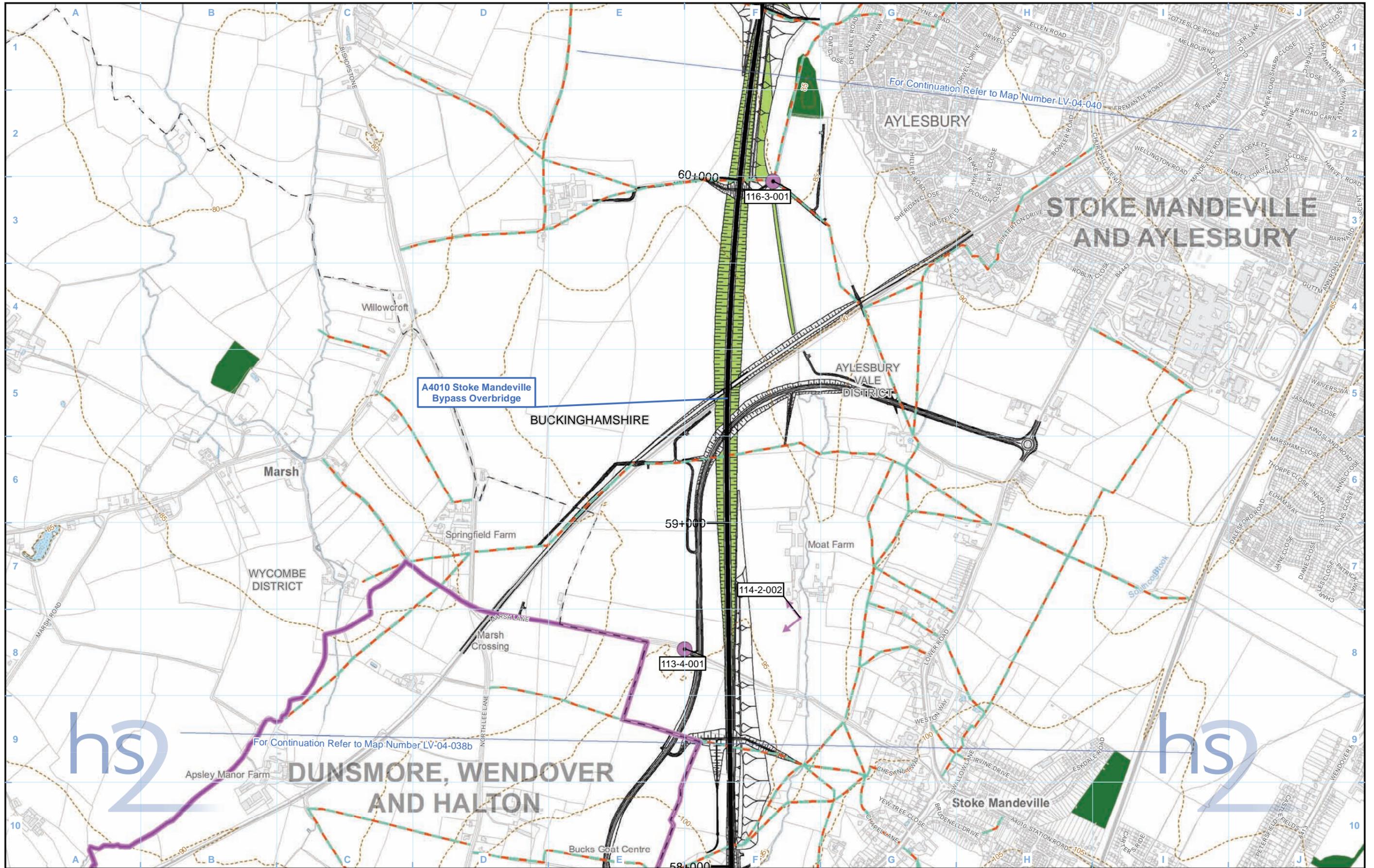
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Legend		Engineering earthworks:	
	Route in tunnel		Embankment
	Route on surface		Cutting
	Depot, station, headhouse or portal building		Non engineering earthworks: Embankment
	Community forum boundary		Cutting
	County boundary		
	District/Borough boundary		
	Public Rights of Way		
	5m contours		
	Water body		
	Watercourse		
	Existing woodland and tree belts		
	Proposed tree planting		
	Significantly affected viewpoint		
	Photomontage location		
	Viewpoint number		

Map Number: LV-04-039

Map Name: Operational Phase Significantly Affected Viewpoints

Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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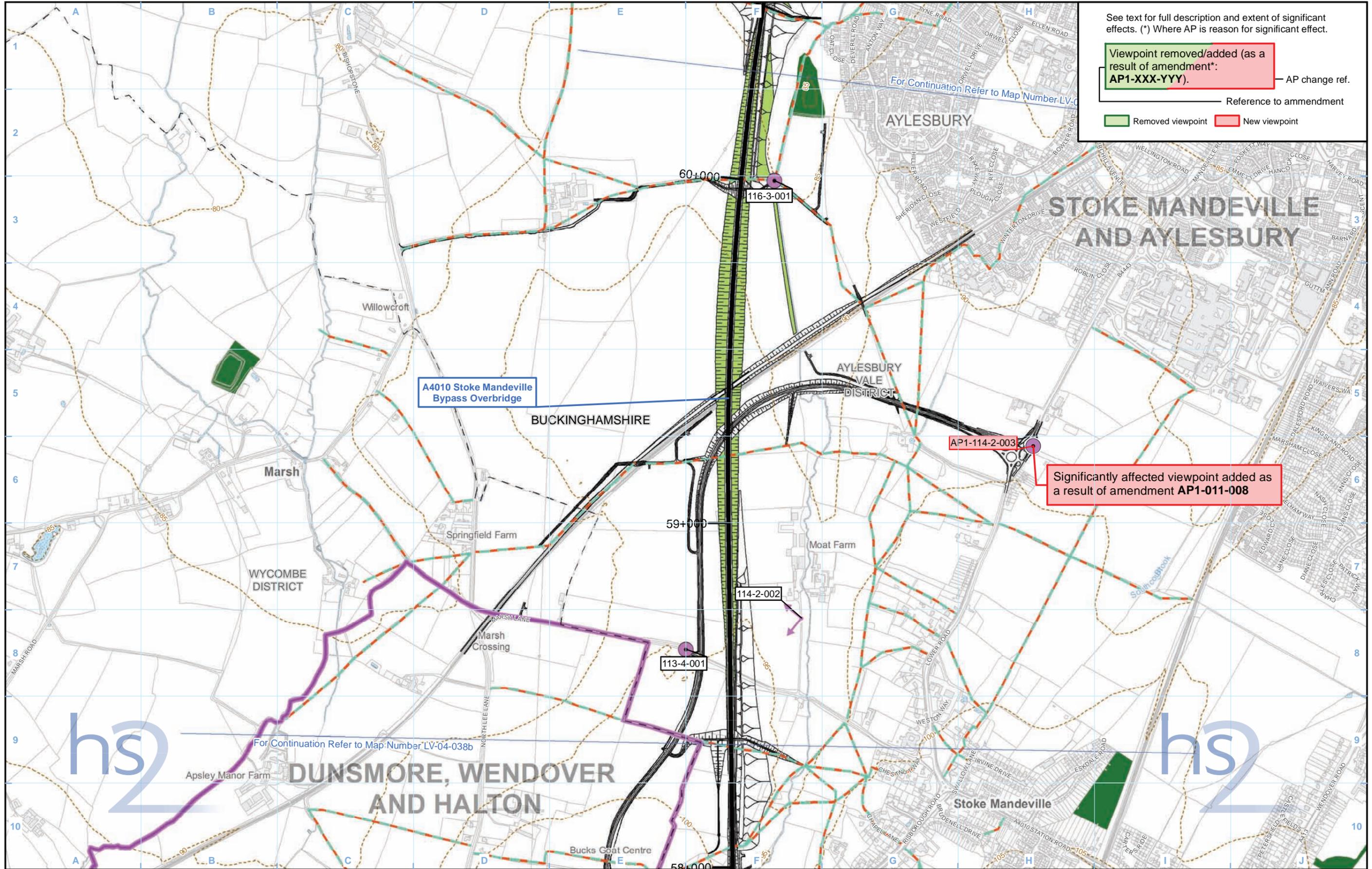
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Viewpoint removed/added (as a result of amendment*: AP1-XXX-YYY). — AP change ref.

— Reference to amendment

Removed viewpoint New viewpoint

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way
 - 5m contours
 - Water body
 - Watercourse
 - Existing woodland and tree belts
 - Proposed tree planting
 - Significantly affected viewpoint
 - Photomontage location
 - Viewpoint number

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

Map Number LV-04-039

Map Name Operational Phase Significantly Affected Viewpoints AP1

Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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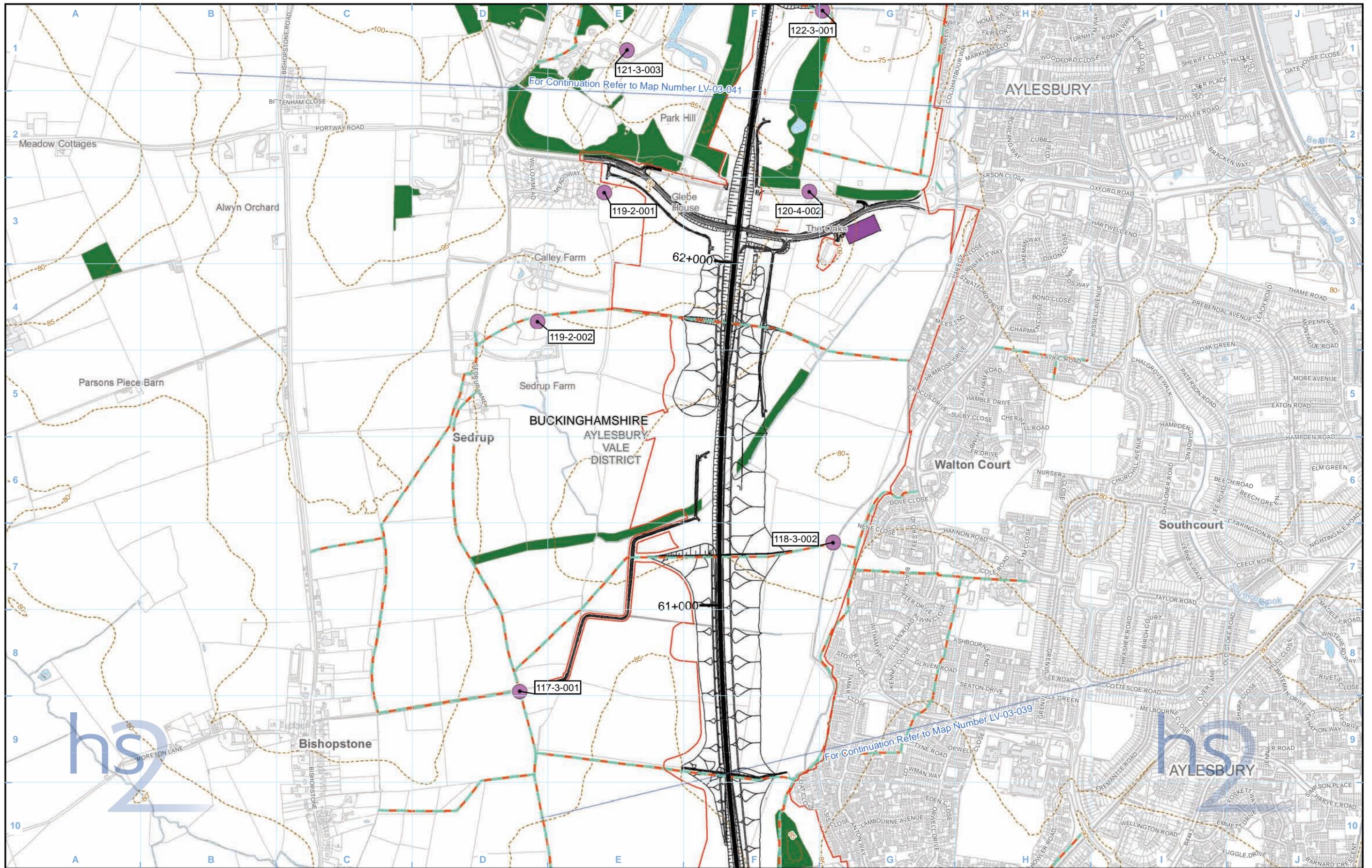
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Legend

001-1-001	Viewpoint number
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Map Number	LV-03-040
Map Name	Construction Phase Significantly Affected Viewpoints
	Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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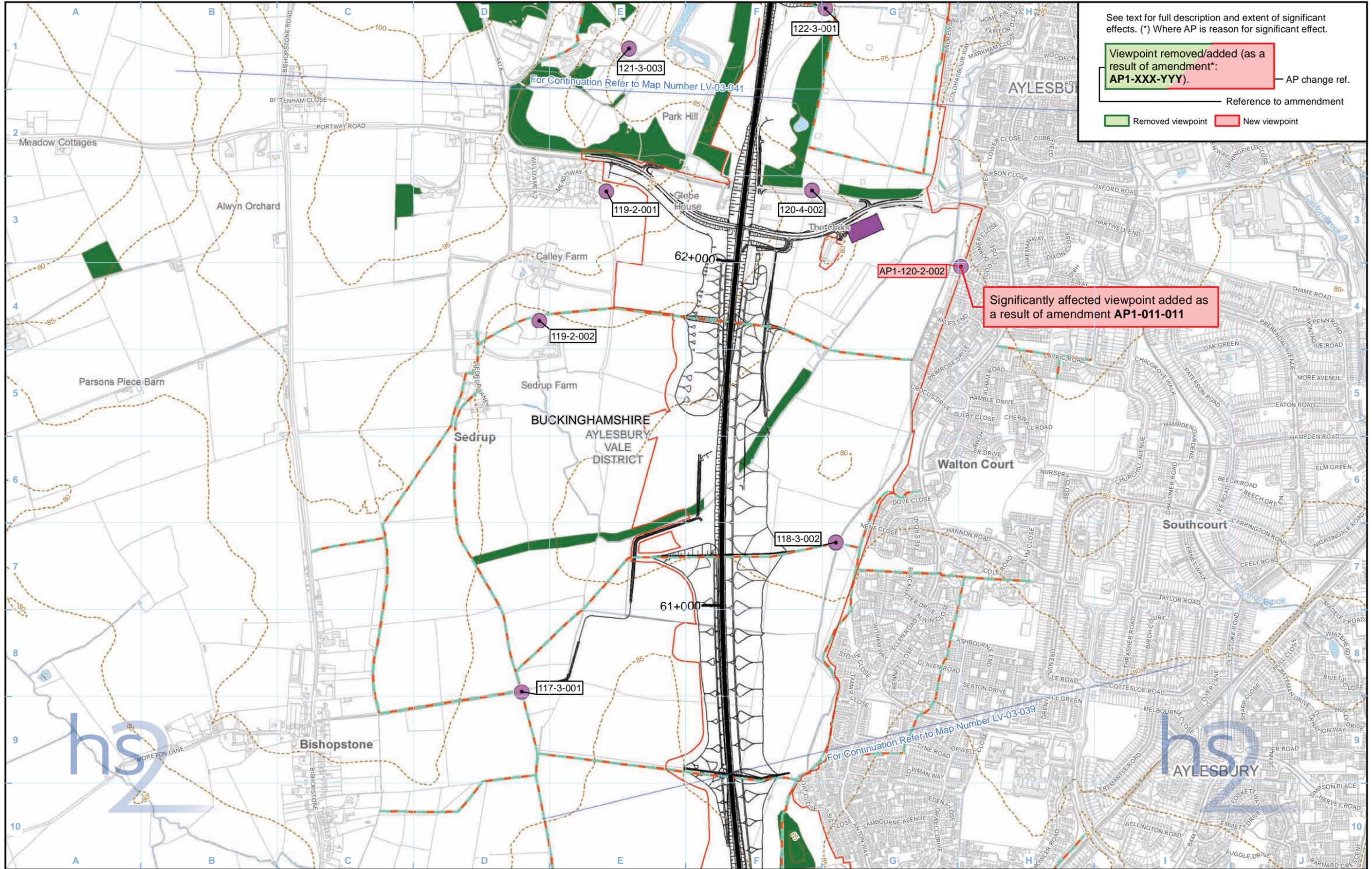
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Viewpoint removed/added (as a result of amendment*): AP1-XXX-YYY. — AP change ref.

— Reference to amendment

Removed viewpoint New viewpoint

Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary County boundary 	<ul style="list-style-type: none"> District/Borough boundary Public Rights of Way 5m contours Water body Watercourse Existing woodland and tree belts Construction compounds 	<ul style="list-style-type: none"> Significantly affected viewpoint Photomontage location Viewpoint number 	<p>Engineering earthworks:</p> <ul style="list-style-type: none"> Embankment Cutting <p>Non engineering earthworks:</p> <ul style="list-style-type: none"> Embankment Cutting
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Map Number LV-03-040

Map Name **Construction Phase Significantly Affected Viewpoints AP1**

Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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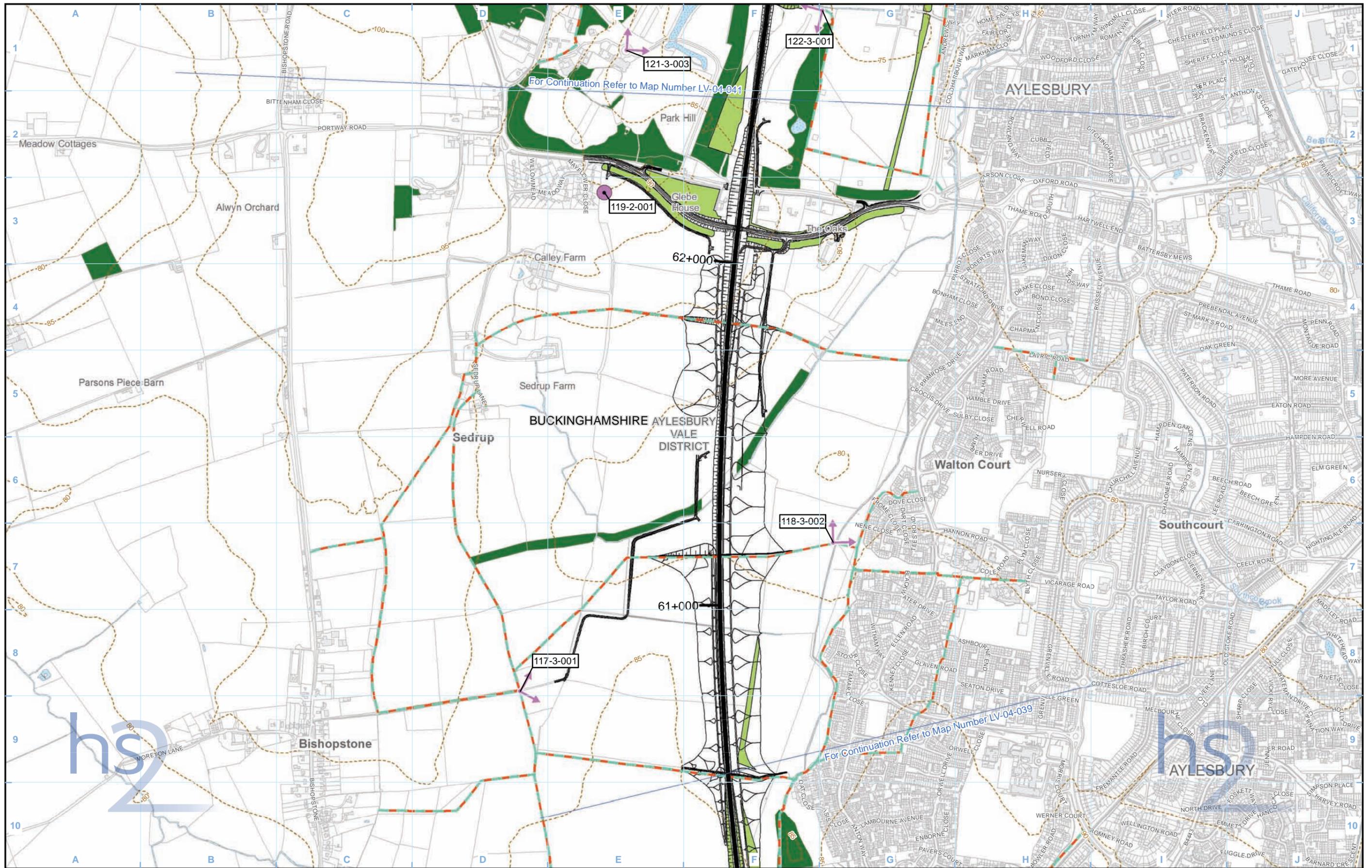
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0 100 200 300 400 Metres

Doc Number: C252-ETM-EV-MAP-020-003820-AP01-P03 Date: 13/08/14



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community forum boundary
	County boundary
	District/Borough boundary
	Public Rights of Way
	5m contours
	Water body
	Watercourse
	Existing woodland and tree belts
	Proposed tree planting
	Significantly affected viewpoint
	Photomontage location
	Viewpoint number

Engineering earthworks:	
	Embankment
	Cutting
Non engineering earthworks:	
	Embankment
	Cutting

Map Number	LV-04-040
Map Name	Operational Phase Significantly Affected Viewpoints
Community Forum Area CFA11: Stoke Mandeville and Aylesbury	

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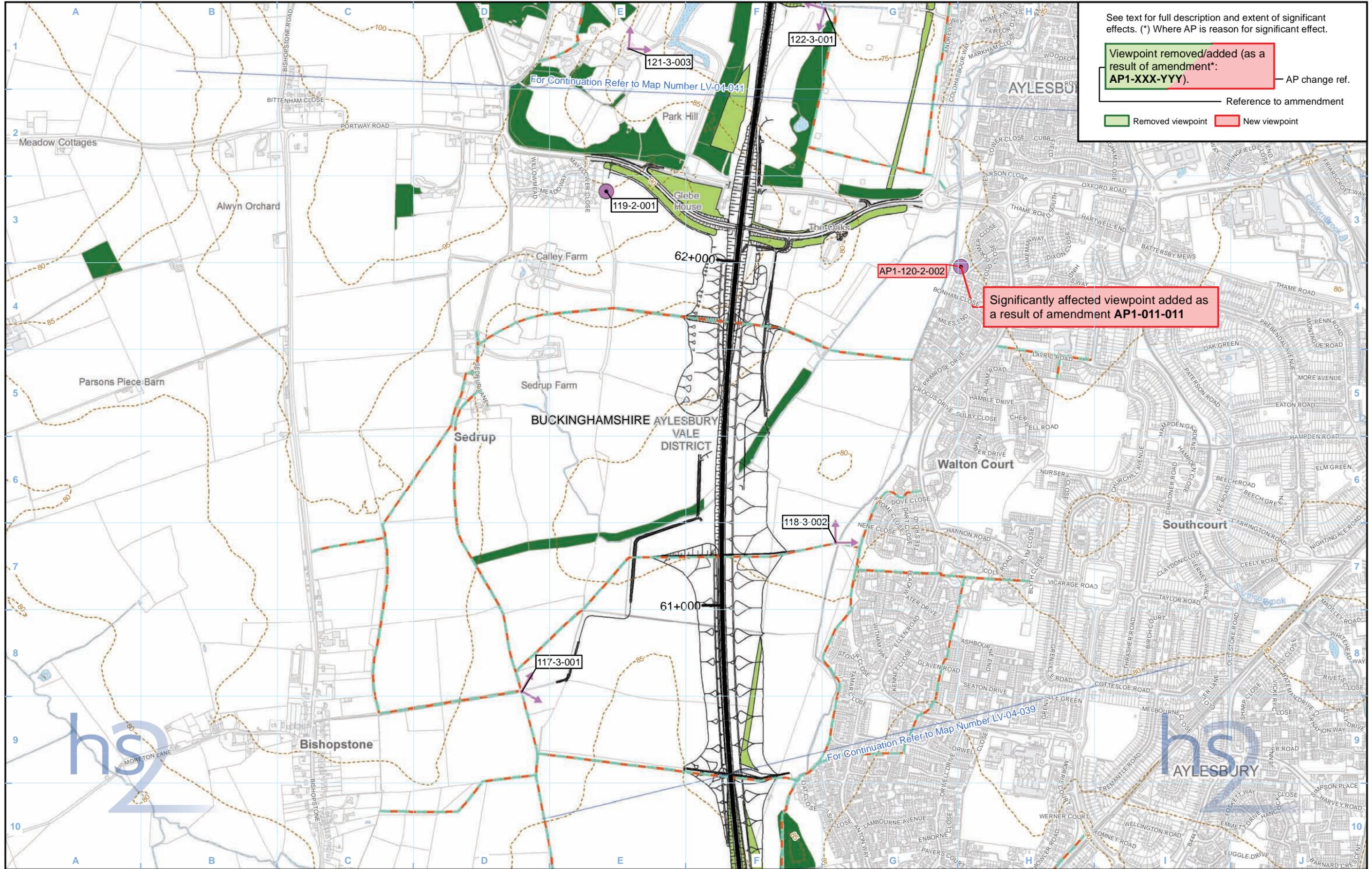
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Date: 30/10/13



See text for full description and extent of significant effects. (*) Where AP is reason for significant effect.

Viewpoint removed/added (as a result of amendment*): AP1-XXX-YYY. — AP change ref.

— Reference to amendment

Removed viewpoint New viewpoint

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way
 - 5m contours
 - Water body
 - Watercourse
 - Existing woodland and tree belts
 - Proposed tree planting
 - Significantly affected viewpoint
 - Photomontage location
 - Viewpoint number

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

Map Number LV-04-040

Map Name Operational Phase Significantly Affected Viewpoints AP1

Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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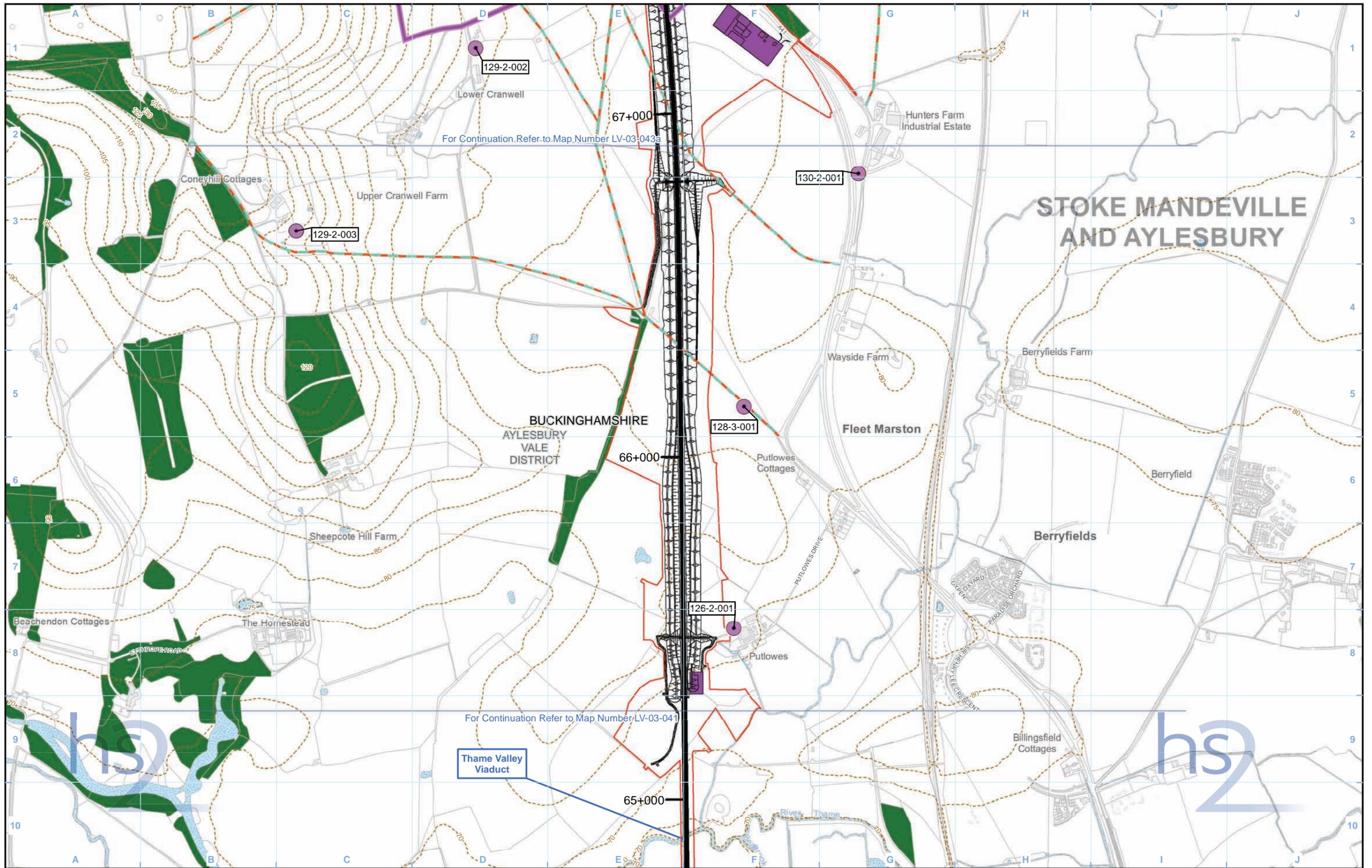
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Legend

			Engineering earthworks:
			Non engineering earthworks:

Map Number	LV-03-042
Map Name	Construction Phase Significantly Affected Viewpoints
	Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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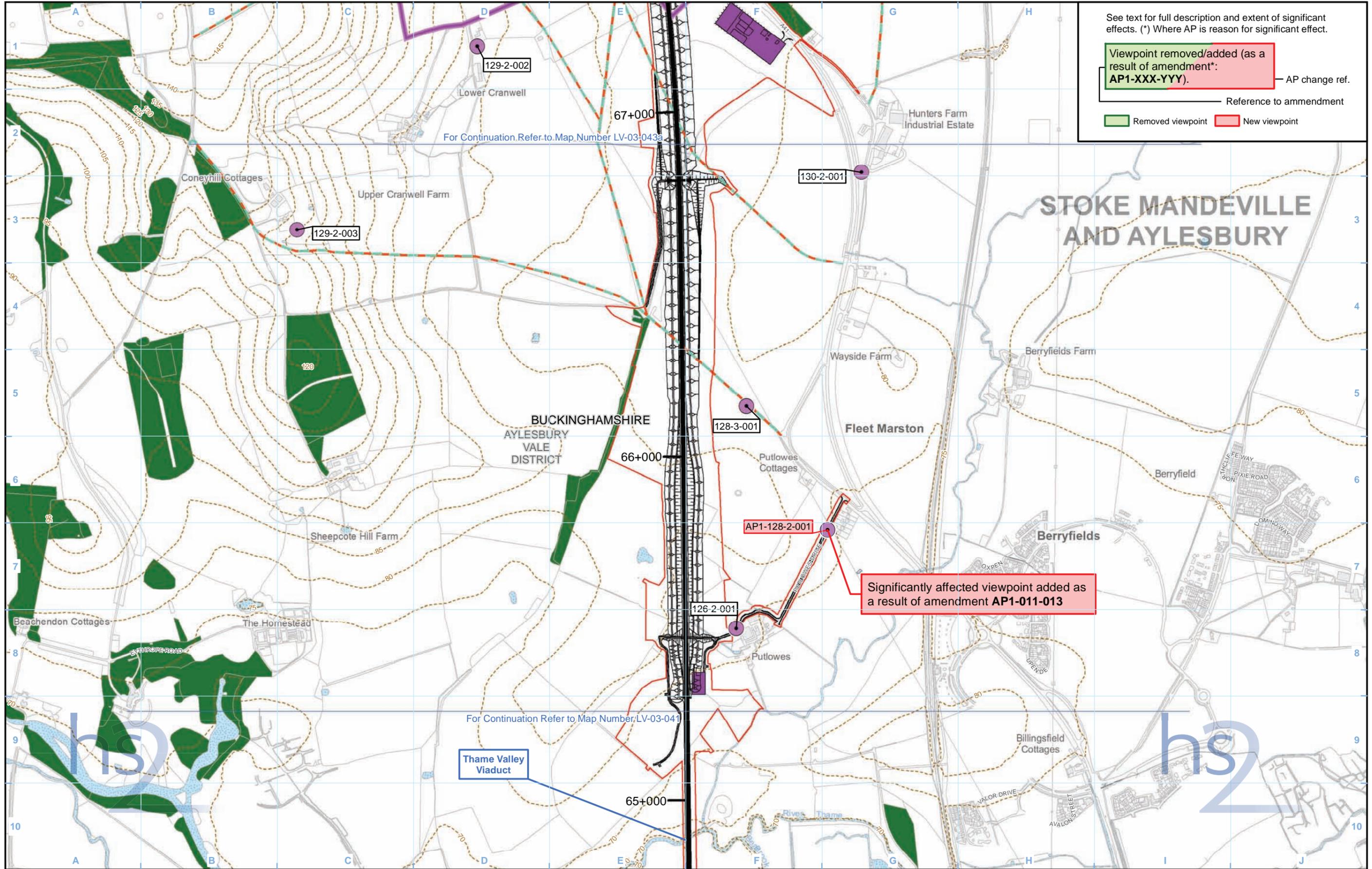
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See text for full description and extent of significant effects. (*) Where AP is reason for significant effect.

Viewpoint removed/added (as a result of amendment*): AP1-XXX-YYY. — AP change ref.

— Reference to amendment

Removed viewpoint New viewpoint

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community forum boundary
 - County boundary
 - District/Borough boundary
 - Public Rights of Way
 - 5m contours
 - Water body
 - Watercourse
 - Existing woodland and tree belts
 - Construction compounds
 - Significantly affected viewpoint
 - Photomontage location
 - Viewpoint number

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

Map Number LV-03-042

Map Name Construction Phase Significantly Affected Viewpoints AP1

Community Forum Area CFA11: Stoke Mandeville and Aylesbury

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0 100 200 300 400 Metres

Doc Number: C252-ETM-EV-MAP-020-003821-AP01-P03 Date: 13/08/14



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HIGH SPEED RAIL (LONDON - WEST MIDLANDS) ADDITIONAL PROVISION

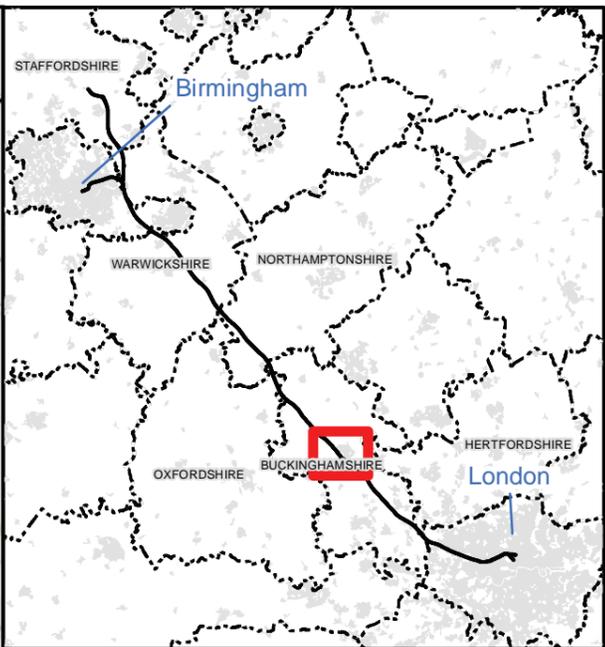
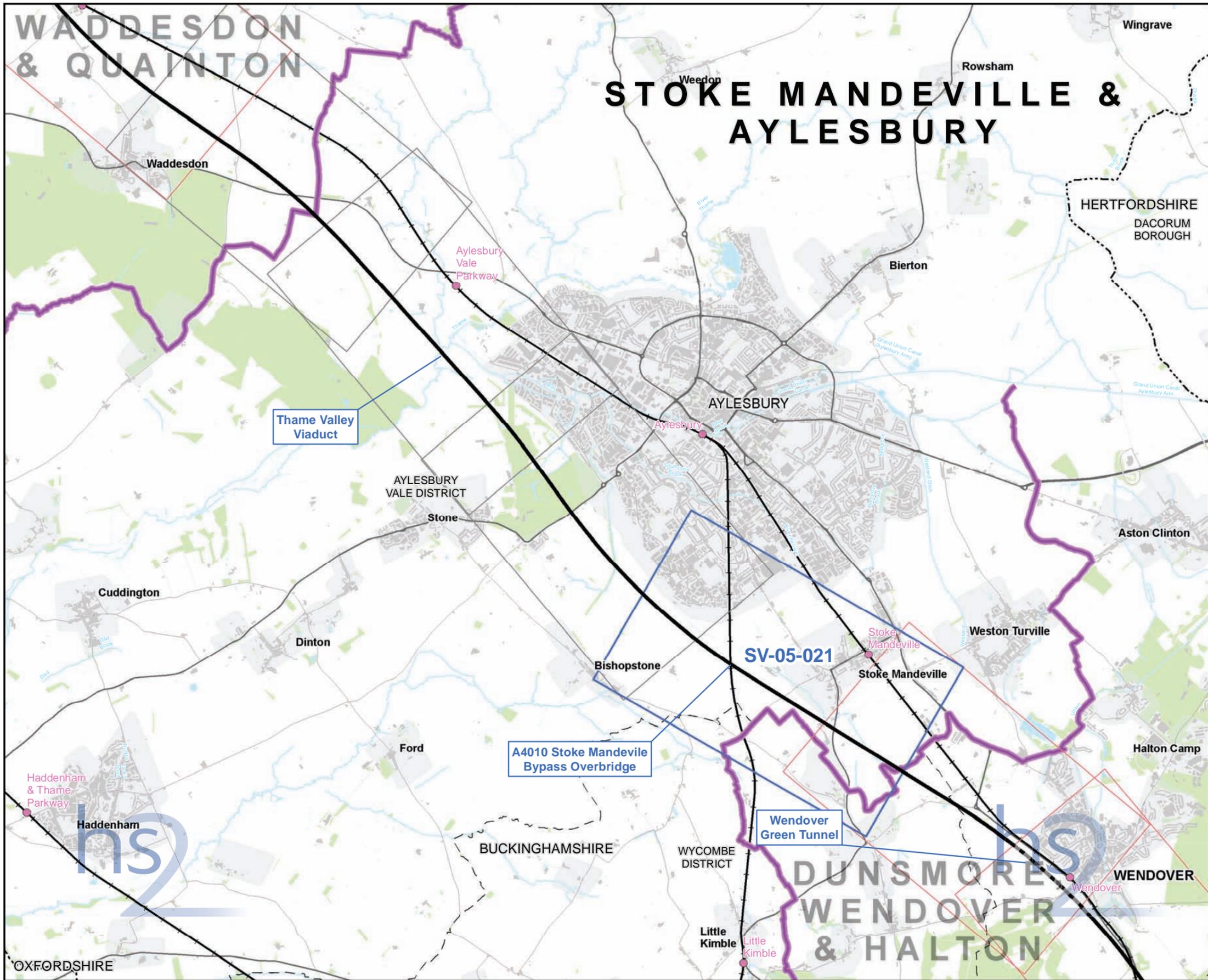
Environmental Statement

SV-05 - Operational Sound and Vibration Impacts and Likely Significant Effects

September 2014



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Map Series Information:

SV-05 presents the direct operational noise impacts and likely significant effects of the scheme.

The SV-05 figure series necessarily contains a large amount of information relating to the operational noise and vibration assessment. It is designed to communicate visually the assessment process from the prediction of impacts to the determination of likely residual significant effects. The corresponding text is included in Vol2.

Key items on the figure series include:

- the Proposed Scheme (the proposed railway alignments and surrounding associated earthworks/roads);
- blue and green lines representing the wayside airborne noise mitigation measures included in the Proposed Scheme;
- the study areas, which indicate the areas within which direct operational sound and vibration impacts of the scheme have been quantitatively assessed;
- the calculated scheme direct impacts, displayed as colour-coded buildings, and symbols representing buildings that would potentially qualify for noise insulation;
- sound contours representing sound produced by the new railway (displayed in a simpler manner than on SV-01 in order not to obscure other features on the figure series); and
- labels indicating where the likely residual direct noise and/or vibration significant effects have been identified.

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

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

Main Map Legend

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

Map Number	SV-05-INDEX-CFA11
Map Name	Index Map of: Operational Noise and Vibration Impacts and Likely Significant Effects AP1 Community Forum Area CFA11: Stoke Mandeville & Aylesbury

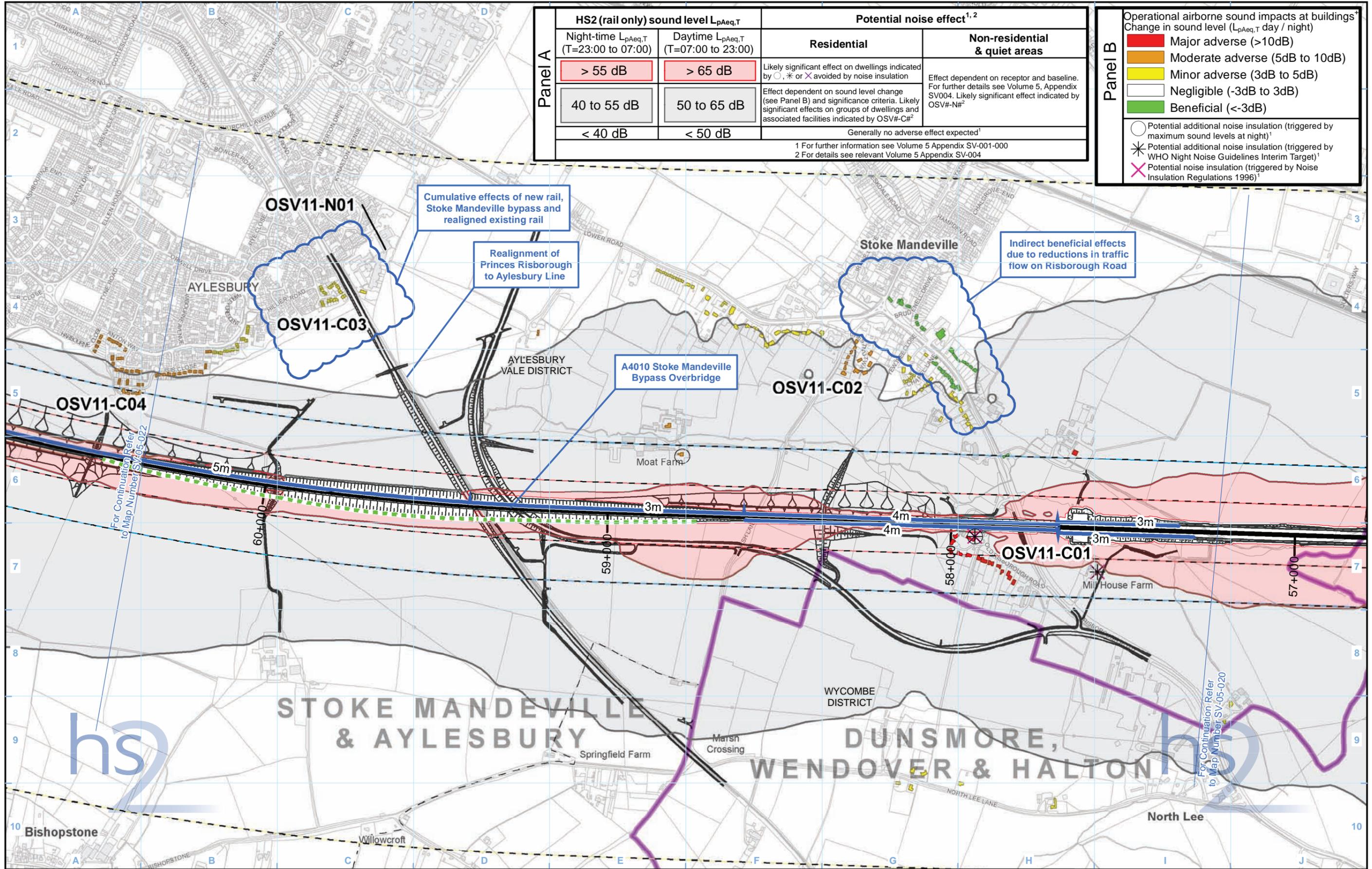
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Doc Number: C250-ARP-EV-MAP-000-005034-AP01 P01.00 Date: 19/08/14



HS2 (rail only) sound level L _{pAeq,T}		Potential noise effect ^{1,2}	
Night-time L _{pAeq,T} (T=23:00 to 07:00)	Daytime L _{pAeq,T} (T=07:00 to 23:00)	Residential	Non-residential & quiet areas
> 55 dB	> 65 dB	Likely significant effect on dwellings indicated by ○, * or ✕ avoided by noise insulation	Effect dependent on receptor and baseline. For further details see Volume 5, Appendix SV004. Likely significant effect indicated by OSV#-N# ²
40 to 55 dB	50 to 65 dB	Effect dependent on sound level change (see Panel B) and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ²	Generally no adverse effect expected ¹
< 40 dB	< 50 dB	Generally no adverse effect expected ¹	

1 For further information see Volume 5 Appendix SV-001-000
2 For details see relevant Volume 5 Appendix SV-004

Panel B

Operational airborne sound impacts at buildings*
Change in sound level (L_{pAeq,T} day / night)

- Major adverse (>10dB)
- Moderate adverse (5dB to 10dB)
- Minor adverse (3dB to 5dB)
- Negligible (-3dB to 3dB)
- Beneficial (<-3dB)

- Potential additional noise insulation (triggered by maximum sound levels at night)¹
- * Potential additional noise insulation (triggered by WHO Night Noise Guidelines Interim Target)¹
- ✕ Potential noise insulation (triggered by Noise Insulation Regulations 1996)¹

Legend - General features

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

Legend - Sound related features

Engineering earthworks:

- Embankment
- Cutting

Non engineering earthworks:

- Embankment
- Cutting

* Residential buildings only
* Labelled with total barrier height above rail level

Legend - Sound related features

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

- Airborne sound study area
- Ground-borne sound & vibration study area (residential and non-residential)
- Ground-borne sound & vibration study area (highly sensitive non-residential)
- Minor ground-borne noise or vibration impact*

Map Number: SV-05-021

Map Name: Operational Noise and Vibration Impacts and Likely Significant Effects

Community Forum Area CFA11: Stoke Mandeville & Aylesbury

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Date: 29/10/13

See text for full description and extent of significant effects. (*) Where AP is reason for significant effect.

Receptor/significant effect removed/added (as a result of amendment*: AP1-OSV11-N03). — AP change ref.

Significant effect descriptor

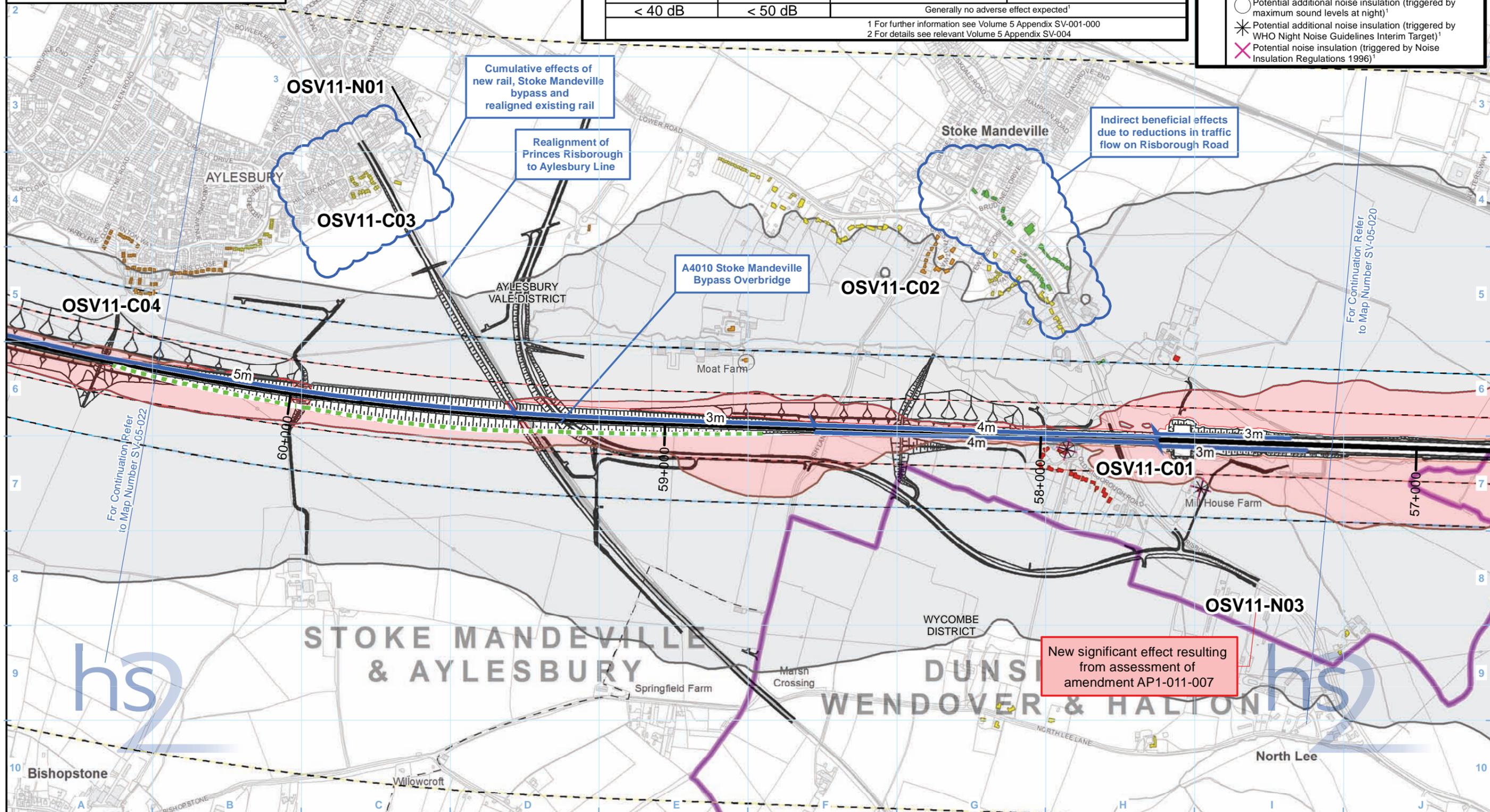
Reduced effect Increased effect

Panel A	HS2 (rail only) sound level $L_{pAeq,T}$		Potential noise effect ^{1,2}	
	Night-time $L_{pAeq,T}$ (T=23:00 to 07:00)	Daytime $L_{pAeq,T}$ (T=07:00 to 23:00)	Residential	Non-residential & quiet areas
	> 55 dB	> 65 dB	Likely significant effect on dwellings indicated by ○, * or X avoided by noise insulation	Effect dependent on receptor and baseline. For further details see Volume 5, Appendix SV004. Likely significant effect indicated by OSV#-N# ²
40 to 55 dB	50 to 65 dB	Effect dependent on sound level change (see Panel B) and significance criteria. Likely significant effects on groups of dwellings and associated facilities indicated by OSV#-C# ²		
< 40 dB	< 50 dB	Generally no adverse effect expected ¹		

1 For further information see Volume 5 Appendix SV-001-000
2 For details see relevant Volume 5 Appendix SV-004

Panel B	Operational airborne sound impacts at buildings* Change in sound level ($L_{pAeq,T}$ day / night)	
	Major adverse (>10dB)	Moderate adverse (5dB to 10dB)
Minor adverse (3dB to 5dB)	Negligible (-3dB to 3dB)	
Beneficial (<-3dB)		

○ Potential additional noise insulation (triggered by maximum sound levels at night)¹
* Potential additional noise insulation (triggered by WHO Night Noise Guidelines Interim Target)¹
X Potential noise insulation (triggered by Noise Insulation Regulations 1996)¹



Legend - General features

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

- Engineering earthworks:
- Embankment
 - Cutting
- Non engineering earthworks:
- Embankment
 - Cutting
- * Residential buildings only
* Labelled with total barrier height above rail level

Legend - Sound related features

- Committed developments (labelled as CFA##)
- Envisaged mitigation to avoid / reduce significant noise effects:
 - Landscaping and/or fence barriers*
 - Engineering e.g. cuttings (green tunnels separately marked)
 - Other environmental e.g. landscaping
 - Engineering e.g. cuttings
- Airborne sound study area
- Ground-borne sound & vibration study area (residential and non-residential)
- Ground-borne sound & vibration study area (highly sensitive non-residential)
- Minor ground-borne noise or vibration impact*

Map Number: SV-05-021

Map Name: AP-1

Operational Noise and Vibration Impacts and Likely Significant Effects

Community Forum Area CFA11: Stoke Mandeville & Aylesbury

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