Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

Volume 2 Community forum area map book CFA16 | Ladbroke and Southam

July 2015

SES and AP2 ES 3.2.2.16

SES and AP2 ES – VOLUME 2



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Volume 2 | Community forum area map book CFA16 | Ladbroke and Southam

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

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



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Map series name	Map series description
	These maps show the land potentially required during construction
CT of Construction Phase	requirements and infrastructure associated with construction of the
CT-05 – Construction Phase	construction phase arrangements for public access using Public Rig
	The base mapping shown on the maps is reflective of 2014 Ordnan
	These maps show permanent features, infrastructure, restored lan
CT-o6 – Proposed Scheme	ecological mitigation associated with the Proposed Scheme.
	The base mapping shown on the maps is reflective of 2014 Ordnan
	SV-05 presents the direct operational noise impacts and likely sign
SV-05 – Operational Airborne Noise and Vibration Impacts and Likely Significant Effects	The SV-05 figure series contains a large amount of information rela
5V-05 – Operational Allborne Noise and Vibration Impacts and Likely Significant Effects	assessment. It is designed to communicate visually the assessment
	determination of likely residual significant effects. The correspond

on, the construction features, access the Proposed Scheme. The maps also show the Rights of Way. ance Survey (OS) data. and, and areas for landscaping, screening and

ance Survey (OS) data. gnificant effects of the scheme.

elating to the operational noise and vibration ent process from the prediction of impacts to the nding text is included in Vol2.

Mapping explanatory notes

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

The Supplementary Environmental Statement (SES) and Additional Provision 2 Environmental Statement (AP2 ES) comprises:

- Non-technical summary (NTS). This provides a summary in non-technical language of the SES (Part 1) and AP2 ES (Part 2) and of any likely significant environmental effects, both beneficial and adverse, which are new or different to those reported in the High Speed 2 (HS2) Phase One Environmental Statement (ES) submitted to Parliament in November 2013 in support of the hybrid Bill ('the Bill') for Phase One of HS2 (hereafter referred to as 'the main ES') and, where relevant, the AP ES submitted in September 2014 (hereafter referred to as 'the AP1 ES').
- Volume 1: Introduction to the SES and the AP2 ES. This introduces the supplementary environmental information and design changes included within the SES and amendments which have resulted in the need to amend the Bill within the AP₂ ES. It also explains any changes to the scope, methodology, assumptions and limitations required for the environmental impact assessment.
- Volume 2: Community Forum Area (CFA) reports and Map Books. These describe the supplementary environmental information and design changes included within the SES (Part 1), amendments within the AP2 ES (Part 2) and report any new or different likely significant environmental effects arising from these changes in each CFA compared to those reported in the main ES and, where relevant, the AP1 ES. The main local alternatives that have been considered are described, where relevant.
- Volume 3: Route-wide effects. This reports new or different likely significant route-wide effects arising from the supplementary environmental information and design changes included within the SES (Part 1) and amendments within the AP₂ ES (Part 2) compared to those reported in the main ES and, where relevant, the AP₁ ES.
- Volume 4: Off-route effects. This reports new or different likely significant off-route effects arising from the supplementary environmental information and design changes included within the SES (Part 1) and amendments within the AP₂ ES (Part 2) compared to those reported in the main ES and, where relevant, the AP₁ ES.
- Volume 5: Appendices and Map Books. This contains supporting environmental information and associated maps in support of the CFA sections of Volume 2.
- Glossary of terms and list of abbreviations. This contains any new or different terms and abbreviations used throughout the SES and AP2 ES compared to those included in the main ES and AP1 ES. •

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 Supplementary Environmental Statement (SES) and Additional Provision 2 Environmental Statement (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 SES and 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. 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 different amounts of alignment on the map.

Map sheet layout

Each map in Volume 2 is presented twice, with the main ES map (published November 2013) on the left hand page and the SES and AP2 ES map on the right. For the CT-05 and CT-06 map series, the SES and 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 SES and AP2 ES reference number. Only maps which have been amended as a result of the SES and 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 SES (Part 1 of each Volume 2 CFA report).
Red	Proposed amendments relating to AP2 (Part 2 of each Volume 2 CFA report).
Grey	Proposed amendments relating to AP1, as they appeared in the AP1 ES, provided for reference.

Each Volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the SES and AP2 ES reference number. For more detailed information about the SES and AP2 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES and AP2 ES 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 53 map books which make up the SES and AP2 ES, spread across volumes 2, 4 and 5. A list of the titles is provided below for reference.

Name	Name
Volume 2 Community forum area map book: CFA4 Kilburn (Brent) to Old Oak Common	Volume 5 Technical appendices map book: Ecology - London Metropolitan (CFA4-6)
Volume 2 Community forum area map book: CFA5 Northolt Corridor	Volume 5 Technical appendices map book: Ecology - CFA7 Colne Valley
Volume 2 Community forum area map book: CFA6 South Ruislip to Ickenham	Volume 5 Technical appendices map book: Ecology - CFA8 The Chalfonts and Amersham
Volume 2 Community forum area map book: CFA7 Colne Valley	Volume 5 Technical appendices map book: Ecology - CFA9 Central Chilterns
Volume 2 Community forum area map book: CFA9 Central Chilterns	Volume 5 Technical appendices map book: Ecology - CFA10 Dunsmore, Wendover and Halton
Volume 2 Community forum area map book: CFA10 Dunsmore, Wendover and Halton	Volume 5 Technical appendices map book: Ecology - CFA11 Stoke Mandeville and Aylesbury
Volume 2 Community forum area map book: CFA11 Stoke Mandeville and Aylesbury	Volume 5 Technical appendices map book: Ecology - CFA12 Waddesdon and Quainton
Volume 2 Community forum area map book: CFA12 Waddesdon and Quainton	Volume 5 Technical appendices map book: Ecology - CFA13 Calvert, Steeple Claydon, Twyford and Chetwode
Volume 2 Community forum area map book: CFA13 Calvert, Steeple Claydon, Twyford and Chetwode	Volume 5 Technical appendices map book: Ecology - CFA14 Newton Purcell to Brackley
Volume 2 Community forum area map book: CFA14 Newton Purcell to Brackley	Volume 5 Technical appendices map book: Ecology - CFA15 Greatworth to Lower Boddington
Volume 2 Community forum area map book: CFA15 Greatworth to Lower Boddington	Volume 5 Technical appendices map book: Ecology - CFA16 Ladbroke and Southam
Volume 2 Community forum area map book: CFA16 Ladbroke and Southam	Volume 5 Technical appendices map book: Ecology - CFA17 Offchurch and Cubbington
Volume 2 Community forum area map book: CFA17 Offchurch and Cubbington	Volume 5 Technical appendices map book: Ecology - CFA18 Stoneleigh, Kenilworth and Burton Green
Volume 2 Community forum area map book: CFA18 Stoneleigh, Kenilworth and Burton Green	Volume 5 Technical appendices map book: Ecology - CFA19 Coleshill Junction
Volume 2 Community forum area map book: CFA19 Coleshill Junction	Volume 5 Technical appendices map book: Ecology - CFA20 Curdworth to Middleton
Volume 2 Community forum area map book: CFA20 Curdworth to Middleton	Volume 5 Technical appendices map book: Ecology - CFA21 Drayton Bassett, Hints and Weeford
Volume 2 Community forum area map book: CFA21 Drayton Bassett, Hints and Weeford	Volume 5 Technical appendices map book: Ecology - CFA22 Whittington to Handsacre
Volume 2 Community forum area map book: CFA22 Whittington to Handsacre	Volume 5 Technical appendices map book: Ecology - West Midlands Metropolitan (CFA23-26)
Volume 2 Community forum area map book: CFA23 Balsall Common and Hampton-in-Arden	Volume 5 Technical appendices map book: Ecology - Off-route
Volume 2 Community forum area map book: CFA24 Birmingham Interchange and Chelmsley Wood	Volume 5 Technical appendices map book: Land quality
Volume 2 Community forum area map book: CFA25 Castle Bromwich and Bromford	Volume 5 Technical appendices map book: Landscape and visual
Volume 2 Community forum area map book: CFA26 Washwood Heath to Curzon Street	Volume 5 Technical appendices map book: Socio-economics
Volume 4 Off-route effects map book	Volume 5 Technical appendices map book: Sound, noise and vibration
Volume 5 Technical appendices map book: Agriculture, forestry and soils	Volume 5 Technical appendices map book: Traffic and transport
Volume 5 Technical appendices map book: Air quality	Volume 5 Technical appendices map book: Water resources
Volume 5 Technical appendices map book: Community	Volume 5 Technical appendices map book: Cross-topic appendix 1 - Committed developments
Volume 5 Technical appendices map book: Cultural heritage	

Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

Volume 2 | Data dictionary and definitions

SES and AP2 ES – VOLUME 2



Data dictionary and definitions

Legend features	Definition	Source	Copyrigh
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	Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scale chainage is shown at 1km intervals. Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.	High Speed Two (HS2) Ltd	
Committed developments	This informs the assessment of the future baseline. 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. Cumulative development is unimplemented but committed developments or Local Plan development allocations that are likely to be largely built out prior to commencement of the Proposed Scheme. 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.	High Speed Two (HS2) Ltd	© Crown Ordnance Publicatio
Community forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Ordnance Publicatio
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 Ordnance Publicatio
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

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Legend features	Definition	Source	Copyrigh
			Ordnance Publicatio
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	
Envisaged mitigation to avoid / reduce significant noise effects	Landscaping and/or fence barriers: These lines represent the envisaged mitigation provided specifically to reduce sound levels from the Proposed Scheme at sensitive receptors in order to reduce or remove likely operational significant noise effects. Examples include noise fence barriers or earth bunds (non- engineering earthworks) acting as noise barriers. These features are labelled with the height of the top of the barrier/bund above rail level. Engineering e.g. cuttings (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.	High Speed Two (HS2) Ltd	
Envisaged mitigation further reducing noise effects	Other environmental features e.g. landscaping: These lines represent environmental mitigation features provided for reasons other than noise mitigation which also reduce sound levels from the Proposed Scheme to the surrounding environment. These features are not placed specifically to reduce or remove a likely significant noise effect. Examples include landscaping and visual mitigation earthworks (non-engineering earthworks).Engineering e.g. cuttings: These lines represent engineering features which reduce sound levels from the Proposed Scheme to the surrounding environment but are not placed specifically to reduce or remove a likely significant noise effect. Examples include cuttings and safety barriers on viaducts which are not close to sensitive receptors.	High Speed Two (HS2) Ltd	
Existing public right of way (PRoW)	See Public Rights of Way.	See Public Rights of Way.	See Publ
Existing watercourse	See Watercourse.	See Watercourse.	See Wate
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	High Speed Two (HS2) Ltd	

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ublic Rights of Way. atercourse.

Legend features	Definition	Source	Copyrigl
	sensitive non-residential receptors have been quantitatively		
	assessed. This area is defined as within 200m of the route.		
	This defines the area within which direct operational ground-		
Ground-borne sound & vibration study area (residential	borne sound and vibration impacts of the scheme at residential	High Speed Two (HS2) Ltd	
and non-residential)	and non-residential receptors have been quantitatively assessed.		
	This area is defined as within 85m of the route.		
	Ecological mitigation to provide new hedgerow planting,		
Hedgerow habitat creation	connectivity enhancements to existing areas and areas for	High Speed Two (HS2) Ltd	
	ecological management. This level does not include screening		
	planting for visual mitigation purposes.		
HS2 Access road	Access road to HS2 infrastructure such as electricity substations,	High Speed Two (HS2) Ltd	
	balancing ponds and maintenance access points to the railway.		
	Provision of land to attenuate or infiltrate overland flows at or		
	beyond the HS2 railway boundaries; for example, where existing		
Land drainage area	land drainage systems are altered by the HS2 works, where the	High Speed Two (HS2) Ltd	
	existing landform is reshaped by landscape earthworks or where		
	surface water from third party land is intercepted by the HS2		
	perimeter drainage system.		
	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		
Land potentially required during construction	portals, vent shafts and headhouses, but does not apply to wholly	High Speed Two (HS2) Ltd	
	tunnelled sections or to air rights. It also encompasses associated		
	highway, access, drainage and utility works.		
	Landscape earthworks to provide permanent landscape, visual or		
Landscape earthworks	acoustic mitigation.	High Speed Two (HS2) Ltd	
	Screening planting, using woodland, for visual mitigation and		
Landscape mitigation planting (scrub / woodland)	landscape integration purposes.	High Speed Two (HS2) Ltd	
	Main Construction Compounds in which main contractors offices		
Main construction compound	and welfare facilities will be located.	High Speed Two (HS2) Ltd	
	Represents all new major utility installations (included in the		
	hybrid Bill) and also modifications to existing utilities required to		
Main utility works	construct the scheme. Includes water, electricity,	High Speed Two (HS2) Ltd	
	telecommunications and gas.		
	Buildings at which a minor operational ground-borne sound or		
Minor ground-borne noise or vibration impact	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	
<u>ب</u>	Denotes fence-style barriers provided as part of the noise		
	mitigation measures. Note that other noise barriers have also		
Noise fence barrier	been included in the form of landscaping and engineering	High Speed Two (HS2) Ltd	
	cuttings - see the SV map series for more detail on noise		
	mitigation.		
	The buildings shown on SV-02 and SV-05 are colour-coded		
Operational airborne sound impacts at buildings	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	High Speed Two (HS2) Ltd	
	ahead with those if it did (details of this process can be found in		
	Volume 5: Appendix SV001-000). Panel B on SV-02/SV-05		
	contains a key showing the colours used with the corresponding		

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Legend features	Definition	Source	Copyrigh
	impact categories. The impacts presented are the greatest (i.e. worst-case) of the impacts predicted for daytime and night-time.		
Potential additional noise insulation (triggered by maximum sound levels at night)	This represents dwellings which would potentially be provided with noise insulation due maximum sound levels from the Proposed Scheme (further information regarding assessment criteria can be found in Volume 5 Appendix SV-001).	High Speed Two (HS2) Ltd	
Potential additional noise insulation (triggered by WHO Night Noise Guidelines Interim Target)	This represents dwellings which would potentially be provided with noise insulation due to noise from the Proposed Scheme exceeding the World Health Organization (WHO) night noise guidelines interim target (further information regarding assessment criteria can be found in Volume 5 Appendix SV-001).	High Speed Two (HS2) Ltd	
Potential noise insulation (triggered by Noise Insulation Regulations 1996)	This represents dwellings which would potentially qualify for noise insulation under the Noise Insulation (Railways and Other Guided Transport Systems) Regulations 1996 (further information regarding assessment criteria can be found in Volume 5 Appendix SV-001).	High Speed Two (HS2) Ltd	
Public realm/Replacement community facility	Public realm: Specifically provided to show areas to be used for public realm. This layer is mainly associated with station sites and is to be used to indicate general areas for designed soft and hard landscaping. Replacement community facility: Area of land for the provision of a permanent replacement community facility, such as a playground, community centre or activity centre.	High Speed Two (HS2) Ltd	
Public Rights of Way	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 Ordnance Publicatio This map the perm Controlle Copyrigh Copyrigh Proceedin No. 1000 County C © Copyri
Rail alignment	Longitudinal geometry of the tracks consisting of a series of	High Speed Two (HS ₂) Ltd	
Rail alignment formation	straights and curves.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	High Speed Two (HS2) Ltd	

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Legend features	Definition	Source	Copyrigh
	and communication systems.		
	Provision of storage to replace floodplain occupied by the		
Replacement floodplain storage	Proposed Scheme. Equivalent storage is provided for events up	High Speed Two (HS2) Ltd	
Replacement noouplain storage	to the 1 in 100 (1%) annual probability event with an allowance for		
	climate change.		
Returned to suitable development use	Post construction land will be reinstated to enable potential	High Speed Two (HS2) Ltd	
	future development.		
Route in tunnel	Represents the proposed route of HS2, split into route on surface	High Speed Two (HS2) Ltd	
Route on surface	and tunnelled sections.		
Satellite construction compound	Represents satellite construction compounds which serve local	High Speed Two (HS2) Ltd	
	works for major construction elements within a main contract.		
Stopped-up PRoW	Public rights of way that will be closed due to construction of the	High Speed Two (HS2) Ltd	
··· ·	scheme.		
	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		
Sustainable placement	means within the land required for the purposes of the Proposed	High Speed Two (HS2) Ltd	
	Scheme and "off-site" means external land (or landfill site) which		
	is not specifically required for the purposes of the Proposed		
	Scheme.		
	Indicative temporary highway diversion layouts during the		
Temporary highway diversion / realignment	construction phase.	High Speed Two (HS2) Ltd	
	Represents temporary stockpiling of topsoil, subsoil and other		
	excavated materials to be used for reinstatement purposes, and		
Temporary material stockpile	also stockpile areas for managing movement of excavated	High Speed Two (HS2) Ltd	
	materials during construction.		
	Indicative temporary diversions to public rights of way as a result		
Temporary PRoW diversion / realignment	of construction of the scheme. These will vary depending on	High Speed Two (HS2) Ltd	
	construction phase and local conditions.		
	Area of land for the provision of a temporary replacement		
Temporary replacement community facility	community facility, such as a playground, community centre or	High Speed Two (HS2) Ltd	
	activity centre, whilst construction works are in progress.		
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	
	The Detailed River Network (DRN) is the only large-scale,		© Enviro
Watercourse	accurate and fully attributed digital river centreline covering	Environment Agency	2015. All
	England and Wales.		2013.7
Watercourse diversion	Includes rivers, streams, ditches and other open channels,	High Speed Two (HS2) Ltd	
	diversions to these, together with any new culverts required.		
	Ecological mitigation area to provide new wetland habitat	High Speed Two (HS2) Ltd	
Wetland habitat creation	creation, enhancements to existing areas and areas for ecological		
	management. This level does not include screening planting for	J	
	visual mitigation purposes.		
	Ecological mitigation area to provide new woodland planting,		
Woodland habitat creation	connectivity enhancements to existing areas and areas for	High Speed Two (HS2) Ltd	
	ecological management. This level does not include screening		
	planting for visual mitigation purposes.		

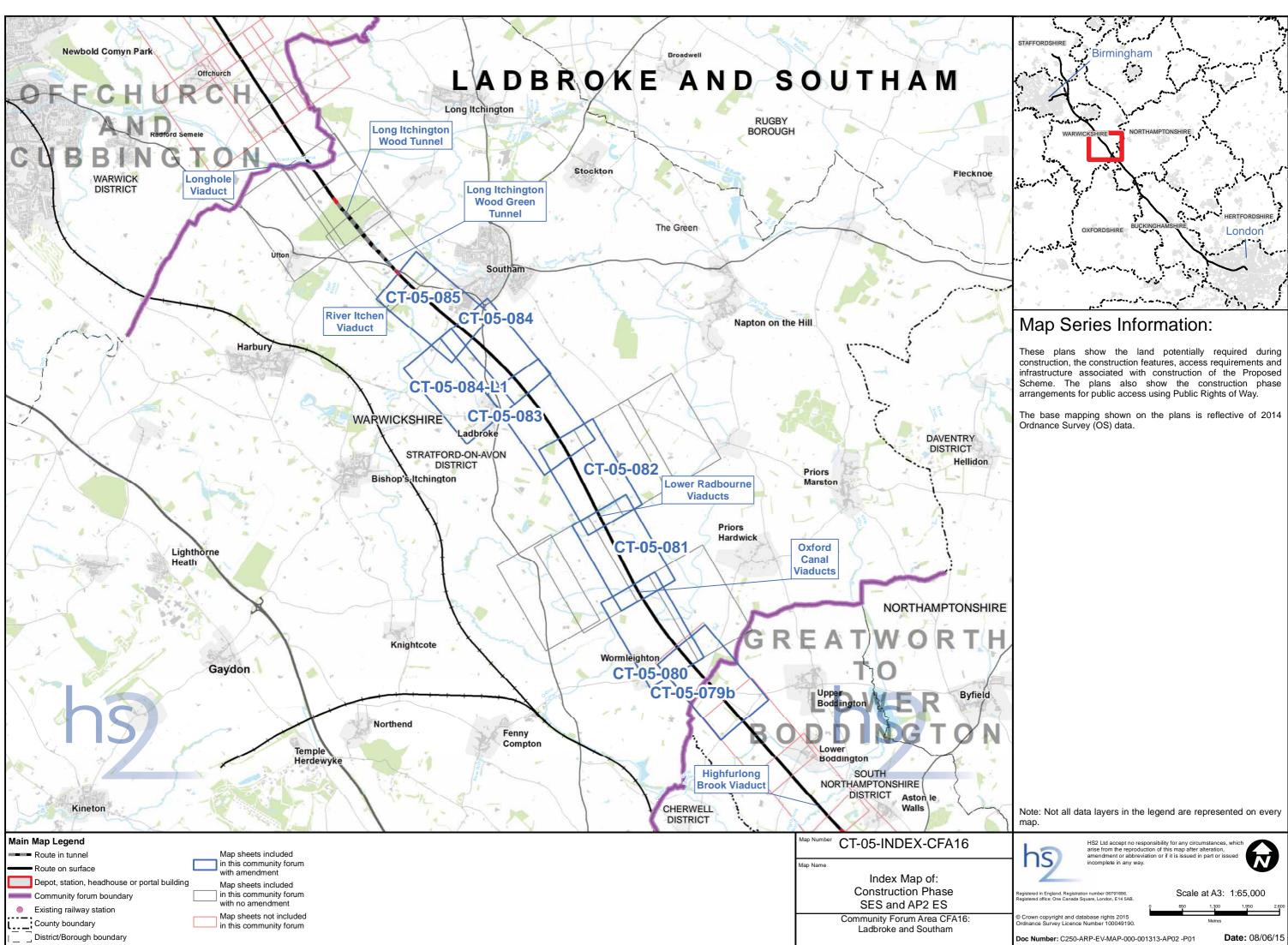
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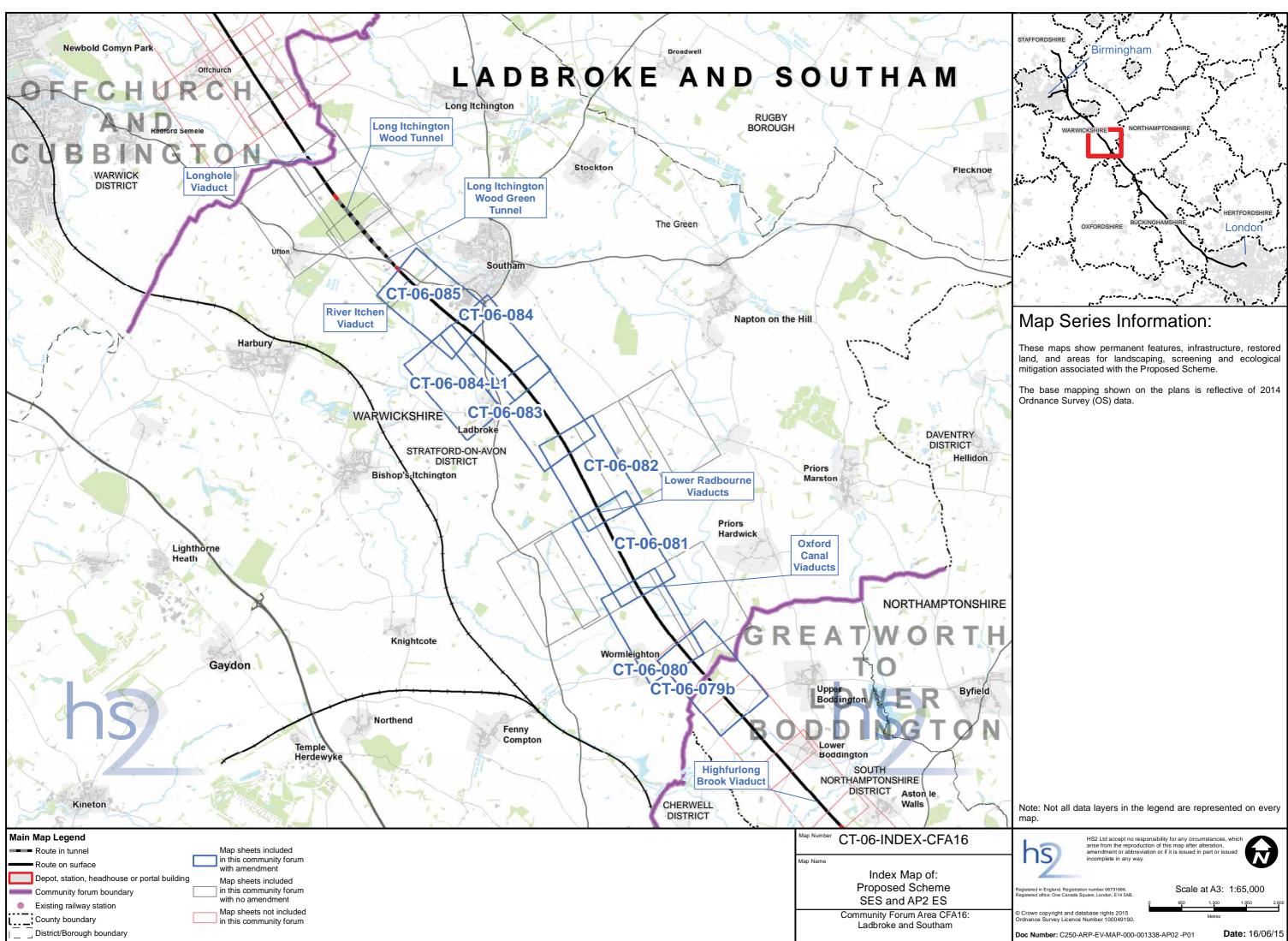
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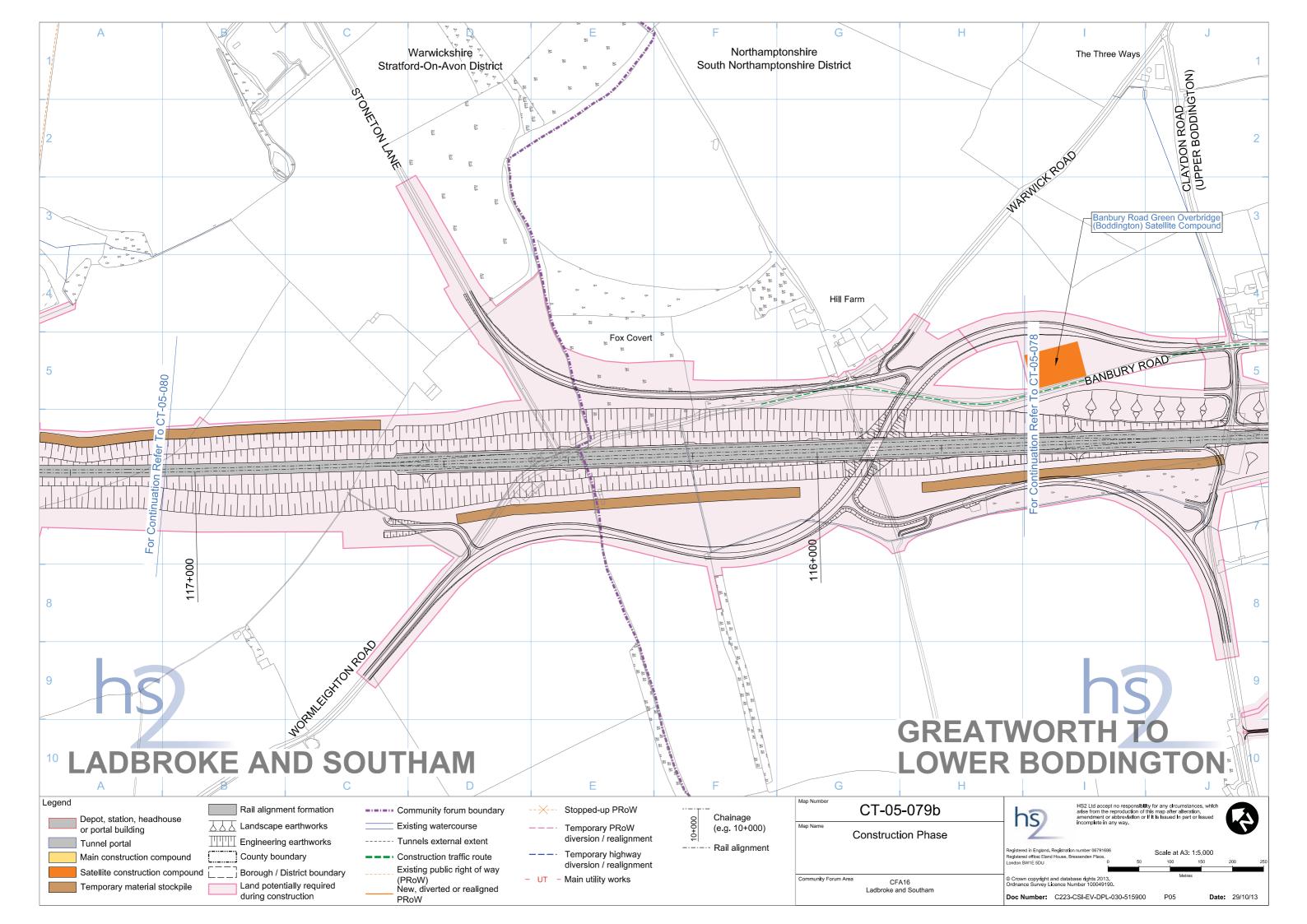
Volume 2 | CT-05 – Construction Phase CT-06 – Proposed Scheme

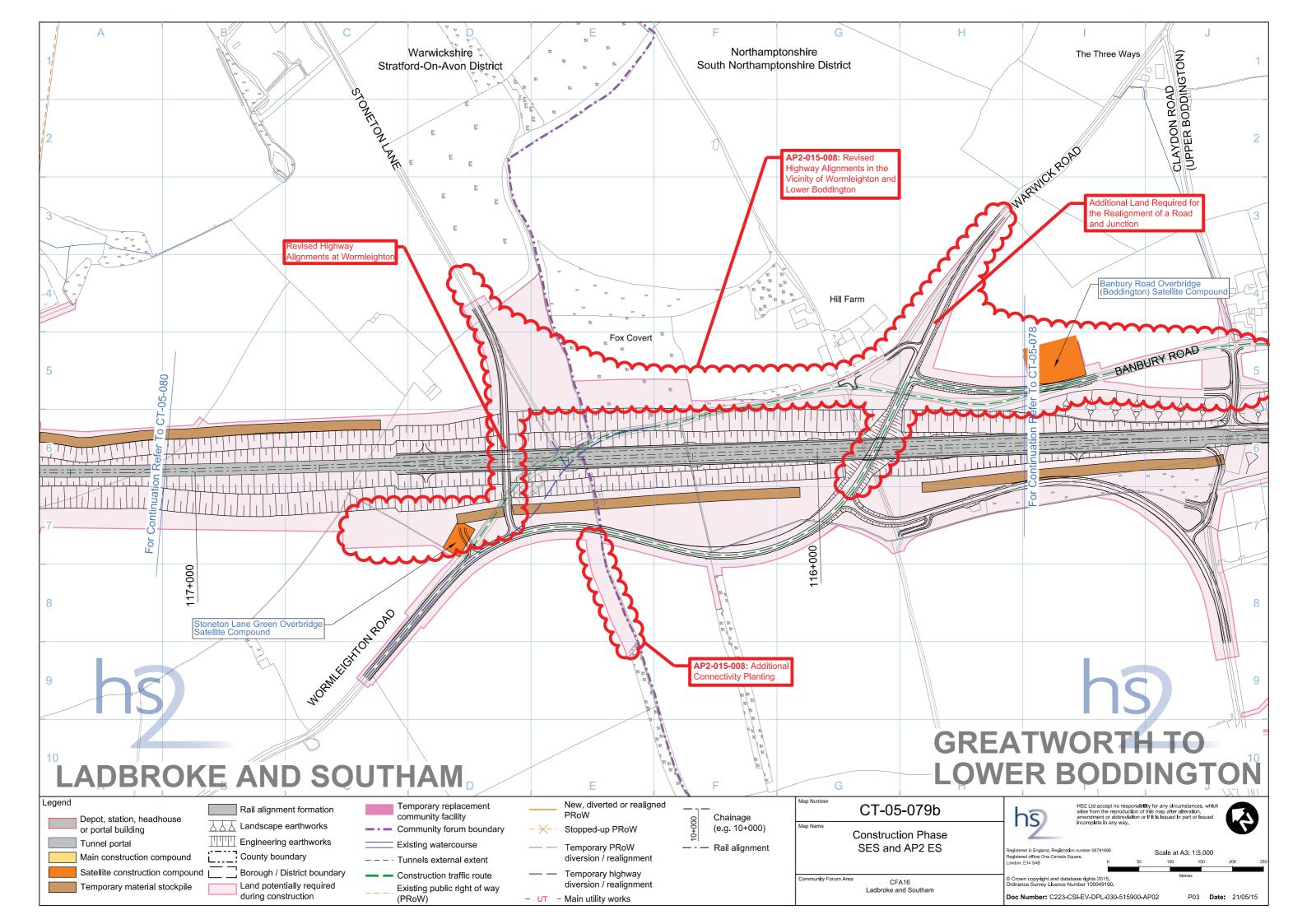
SES and AP2 ES – VOLUME 2

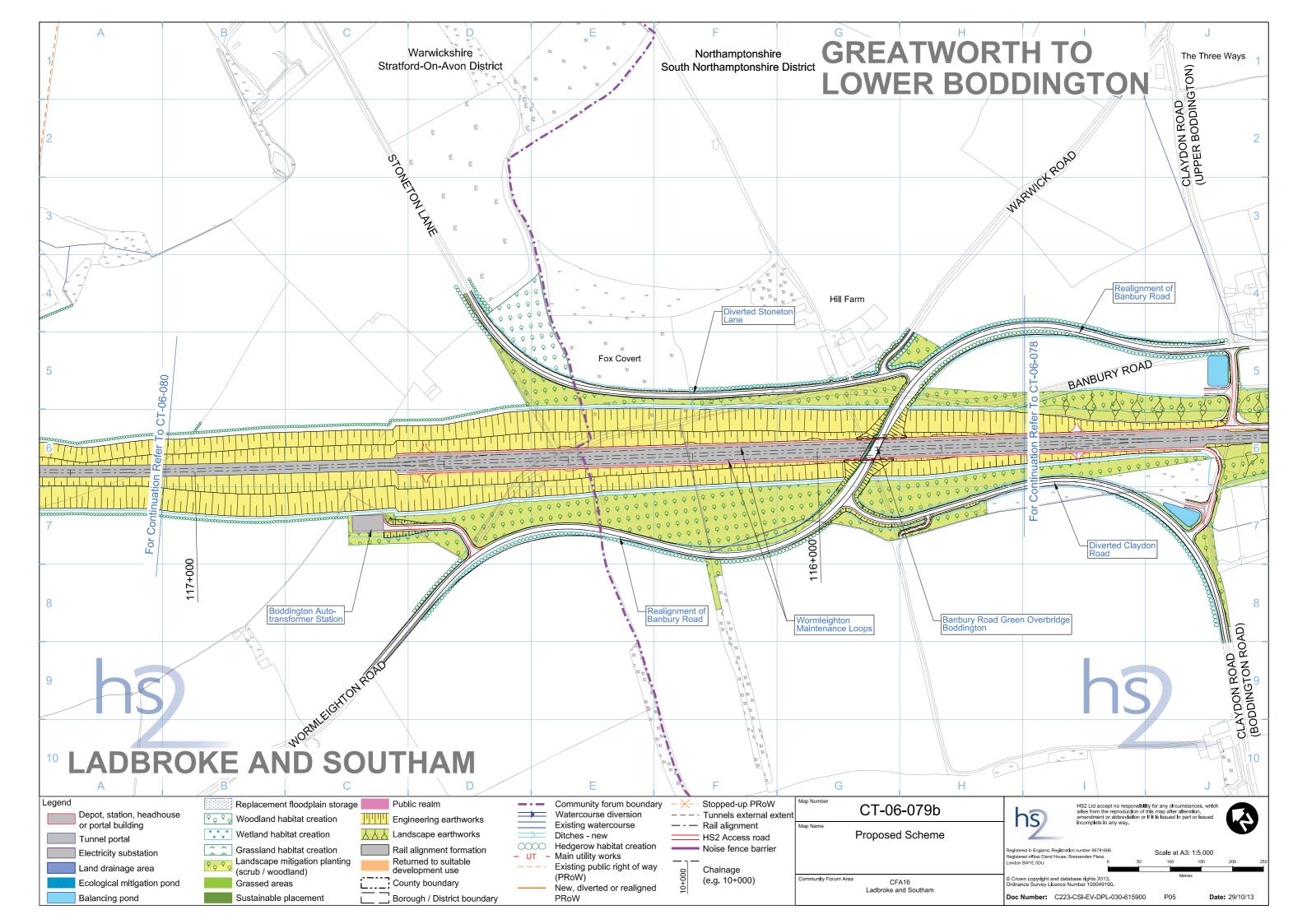


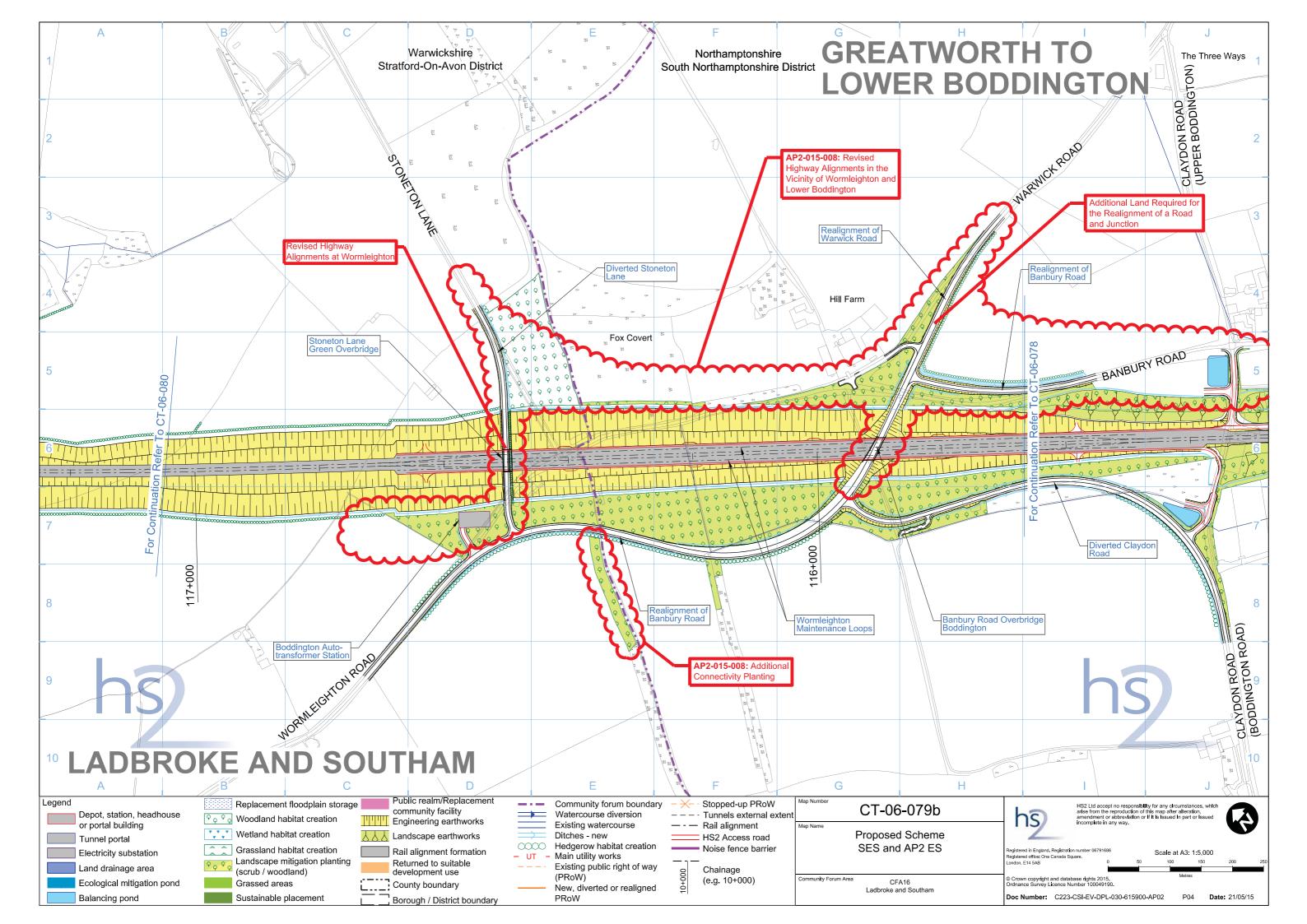


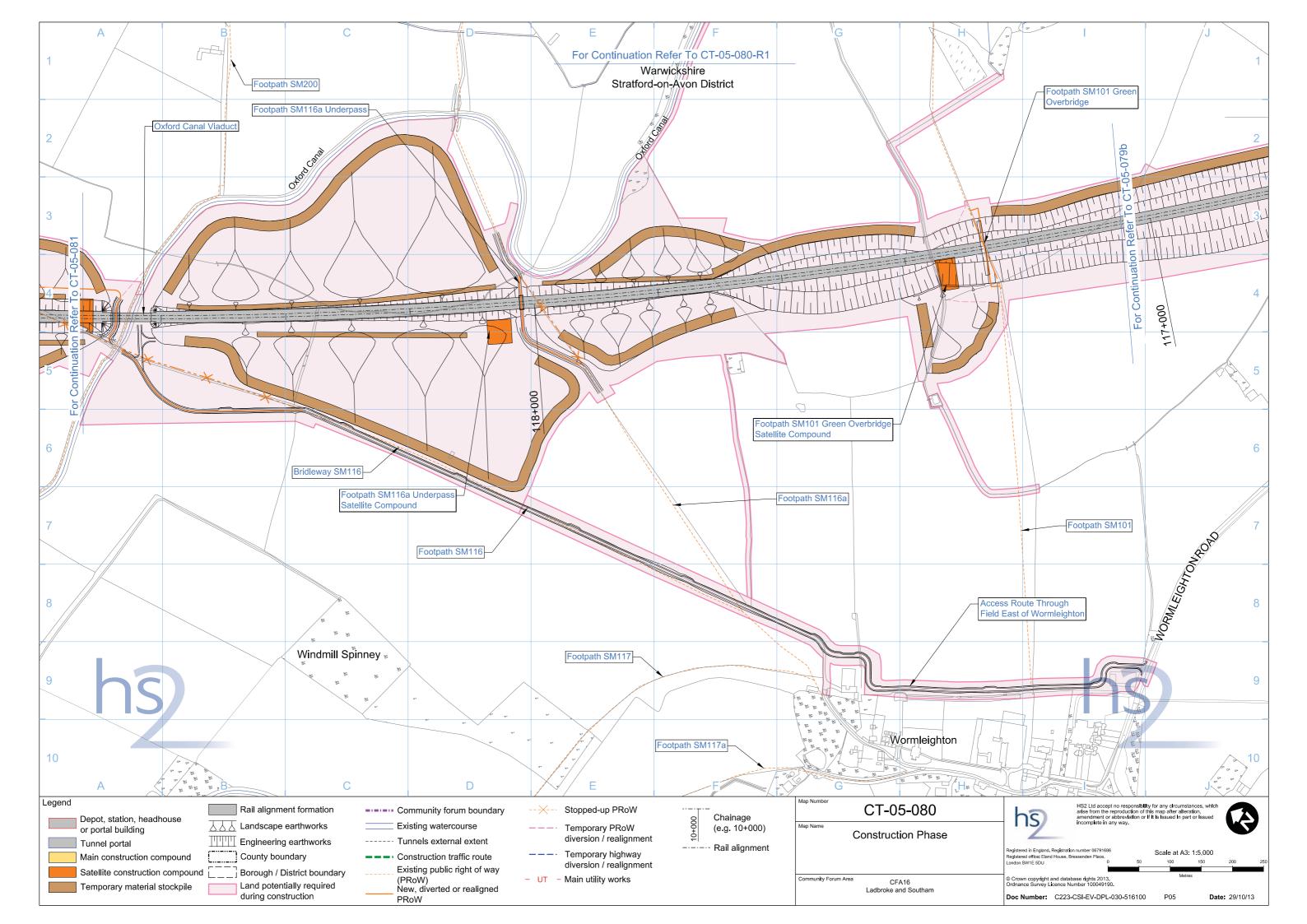


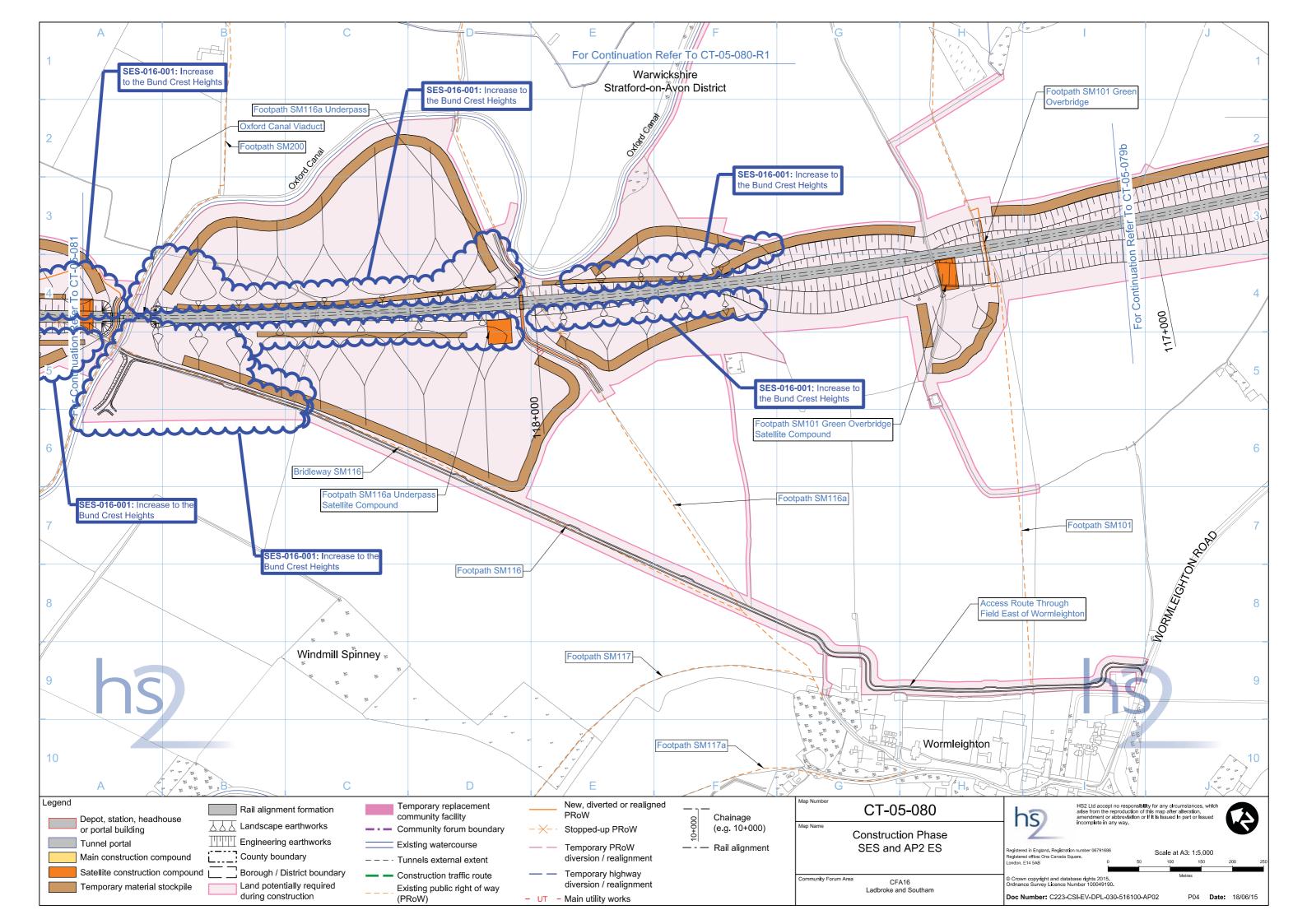


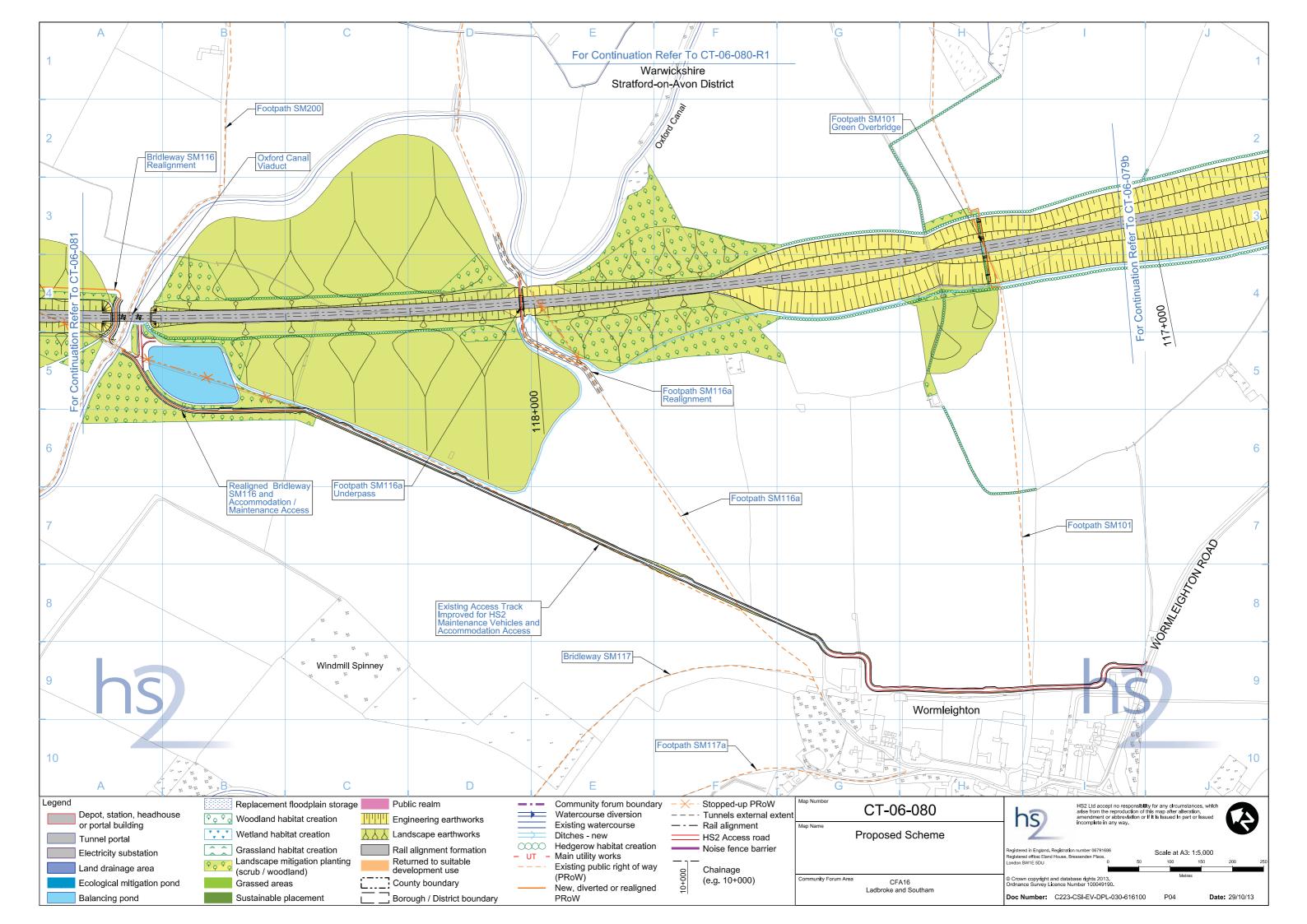


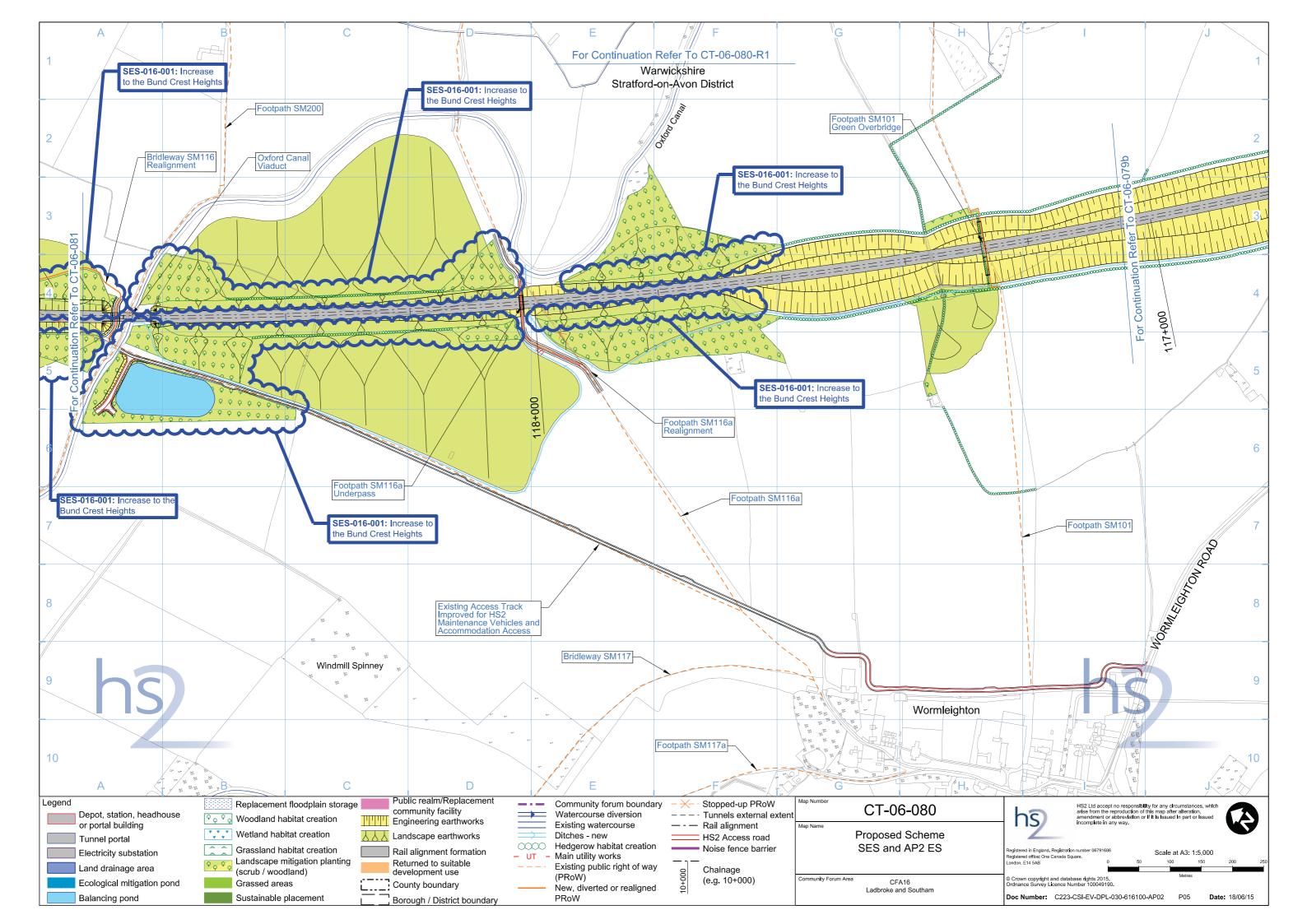


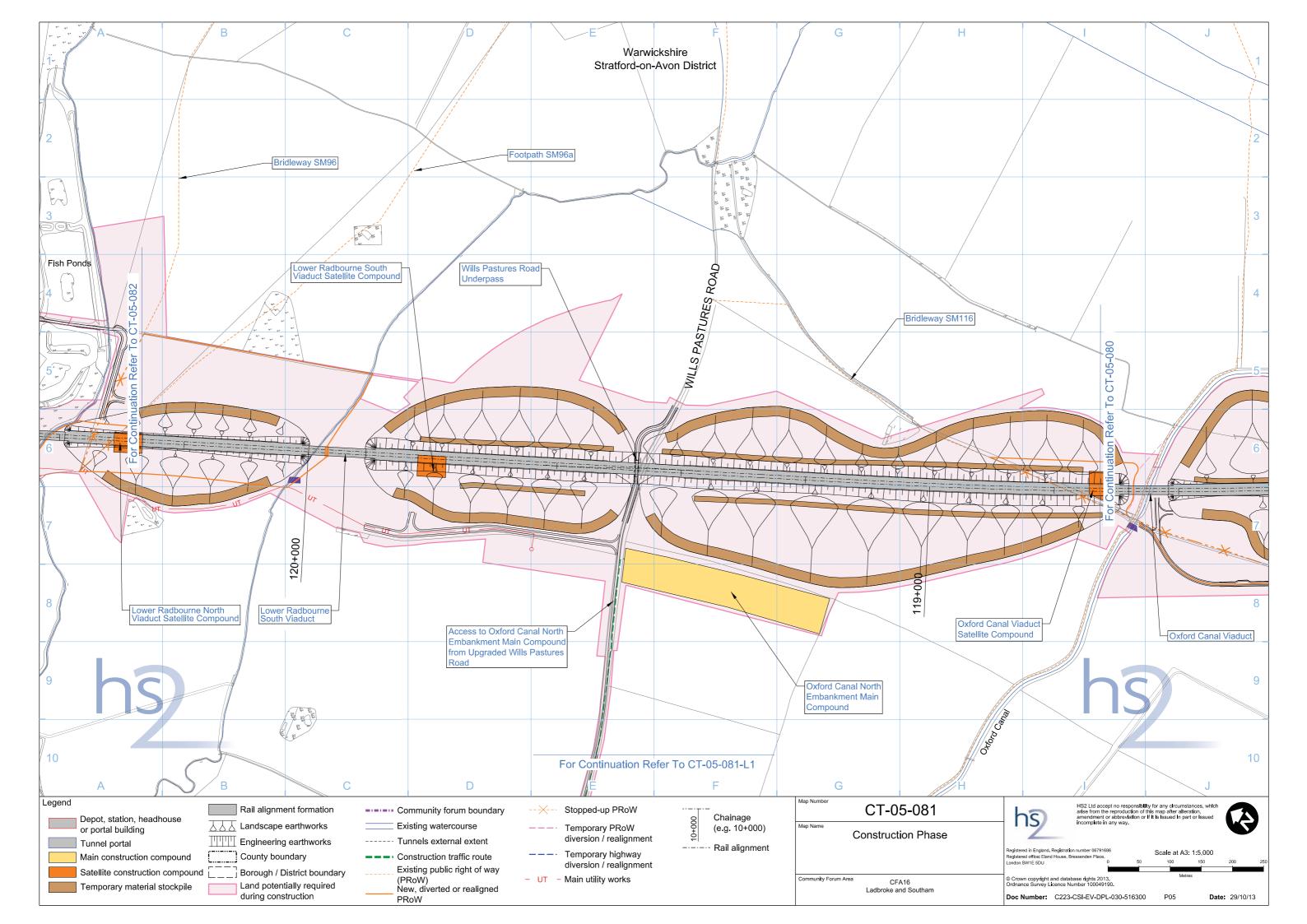


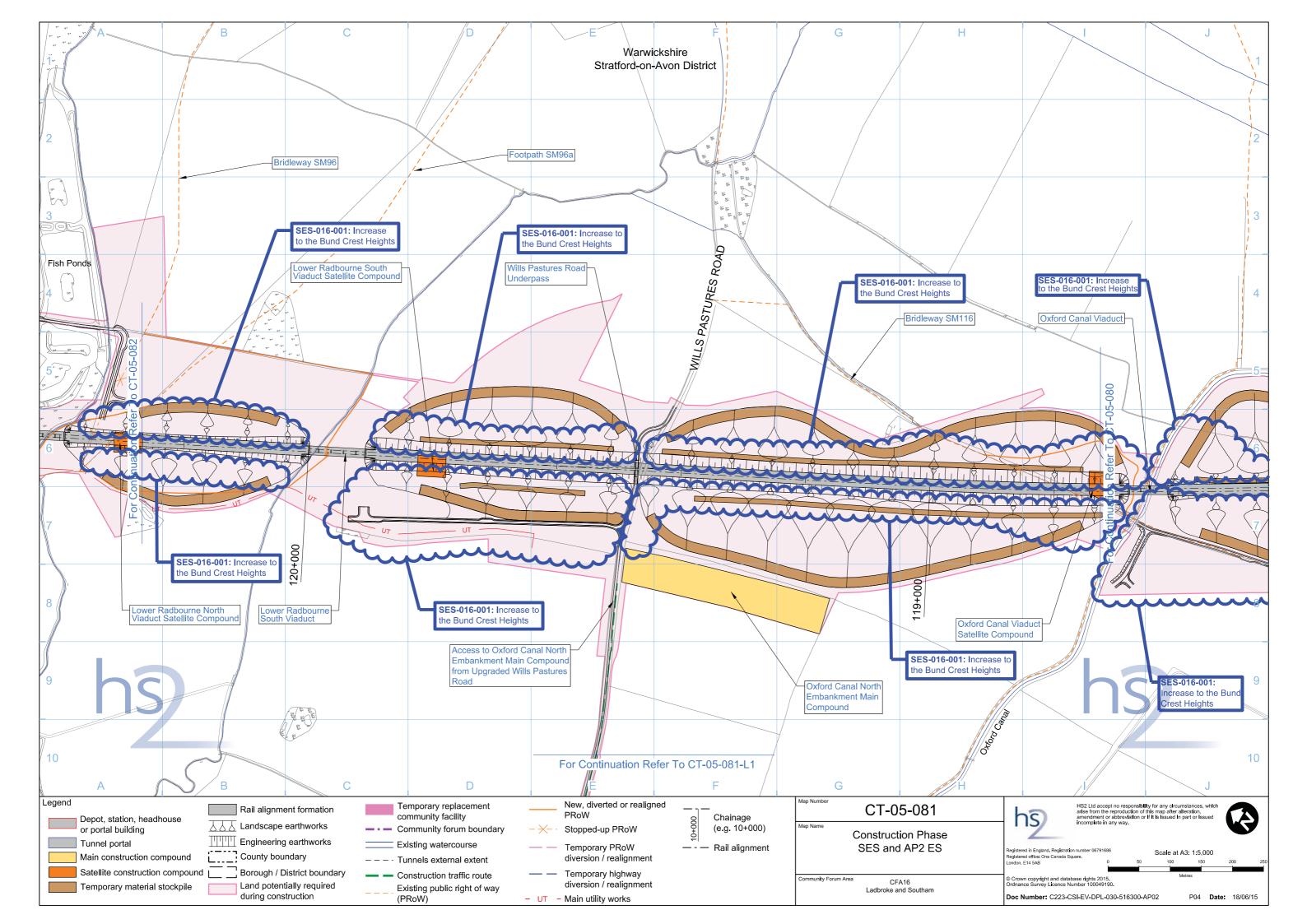


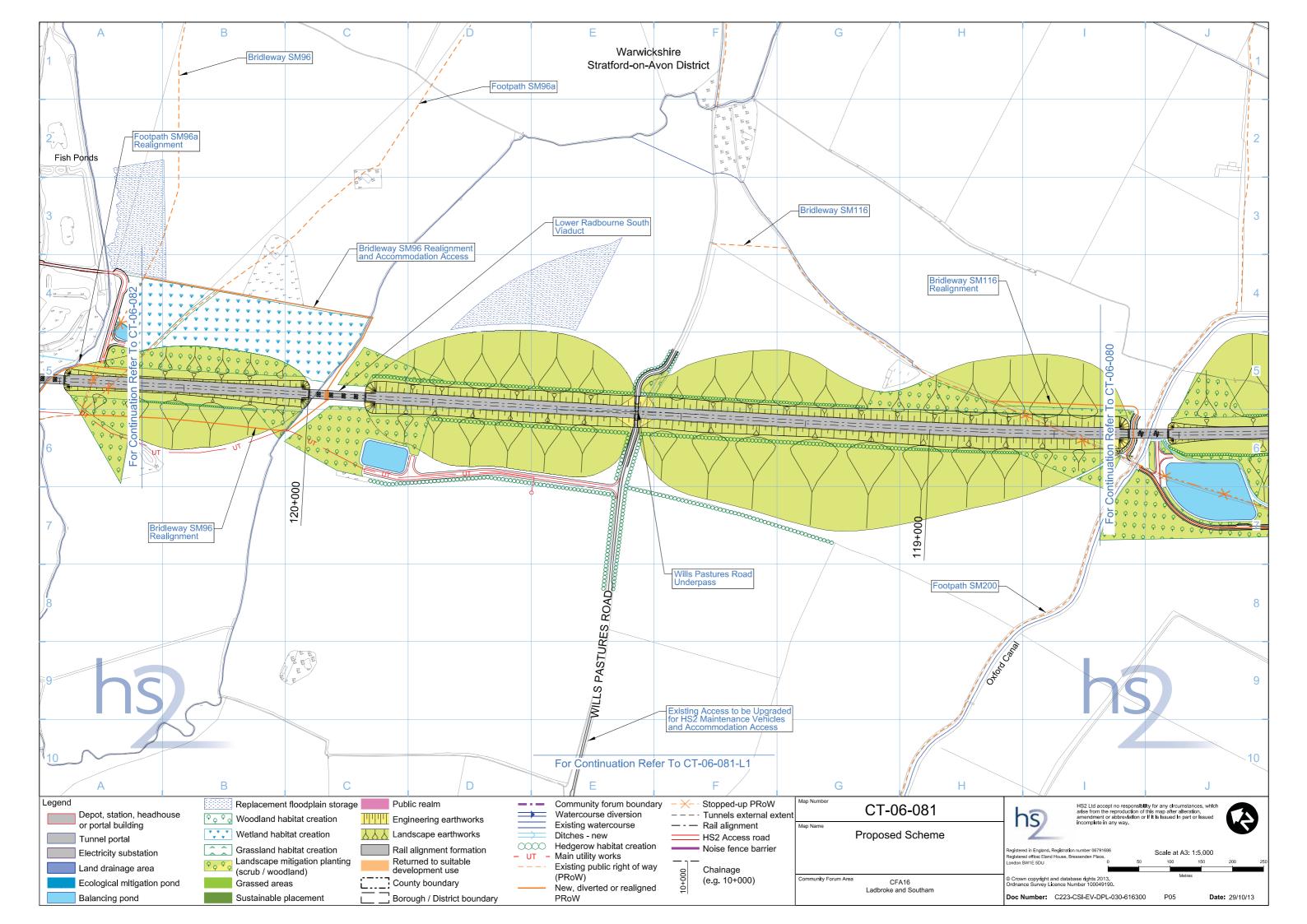


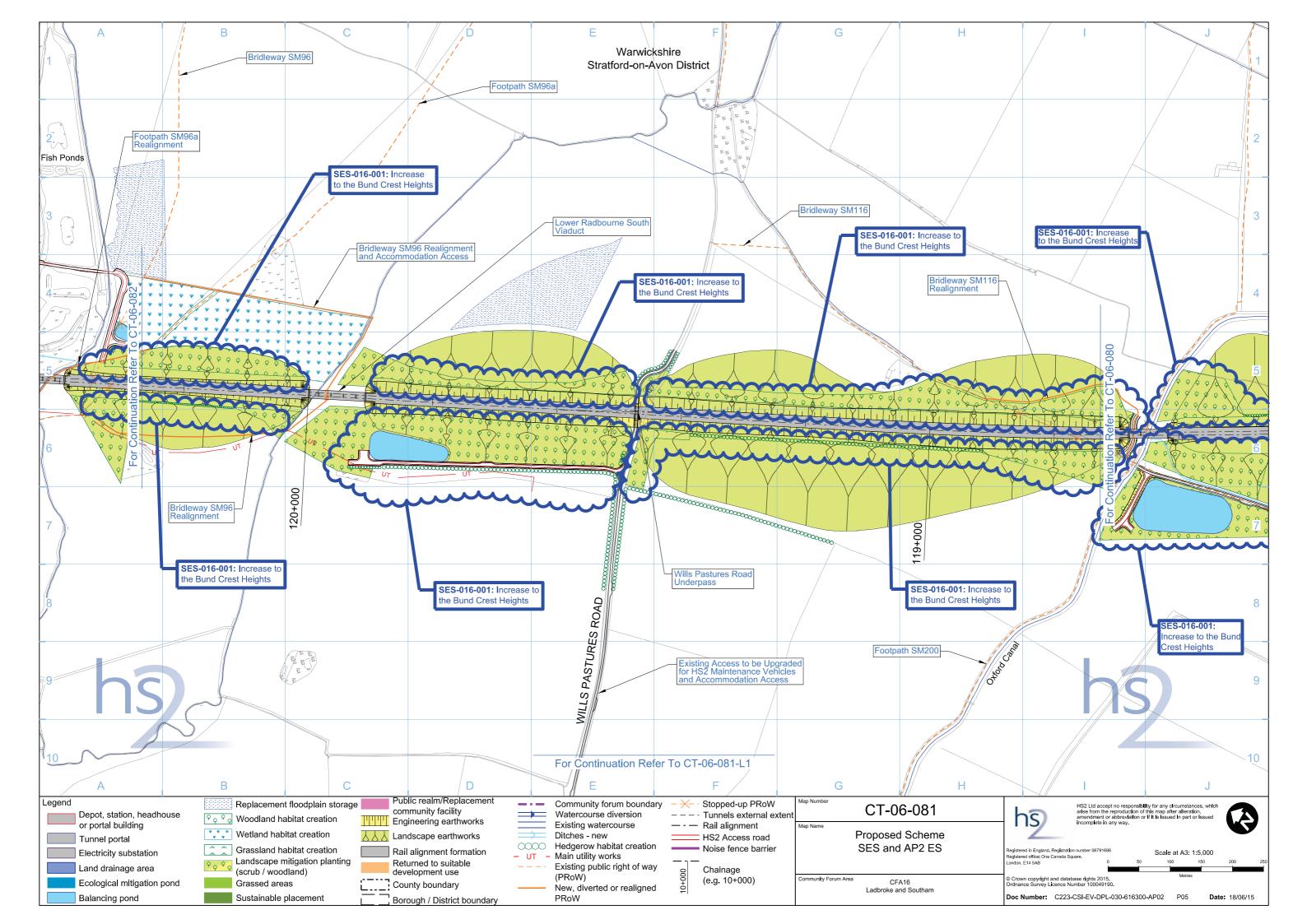


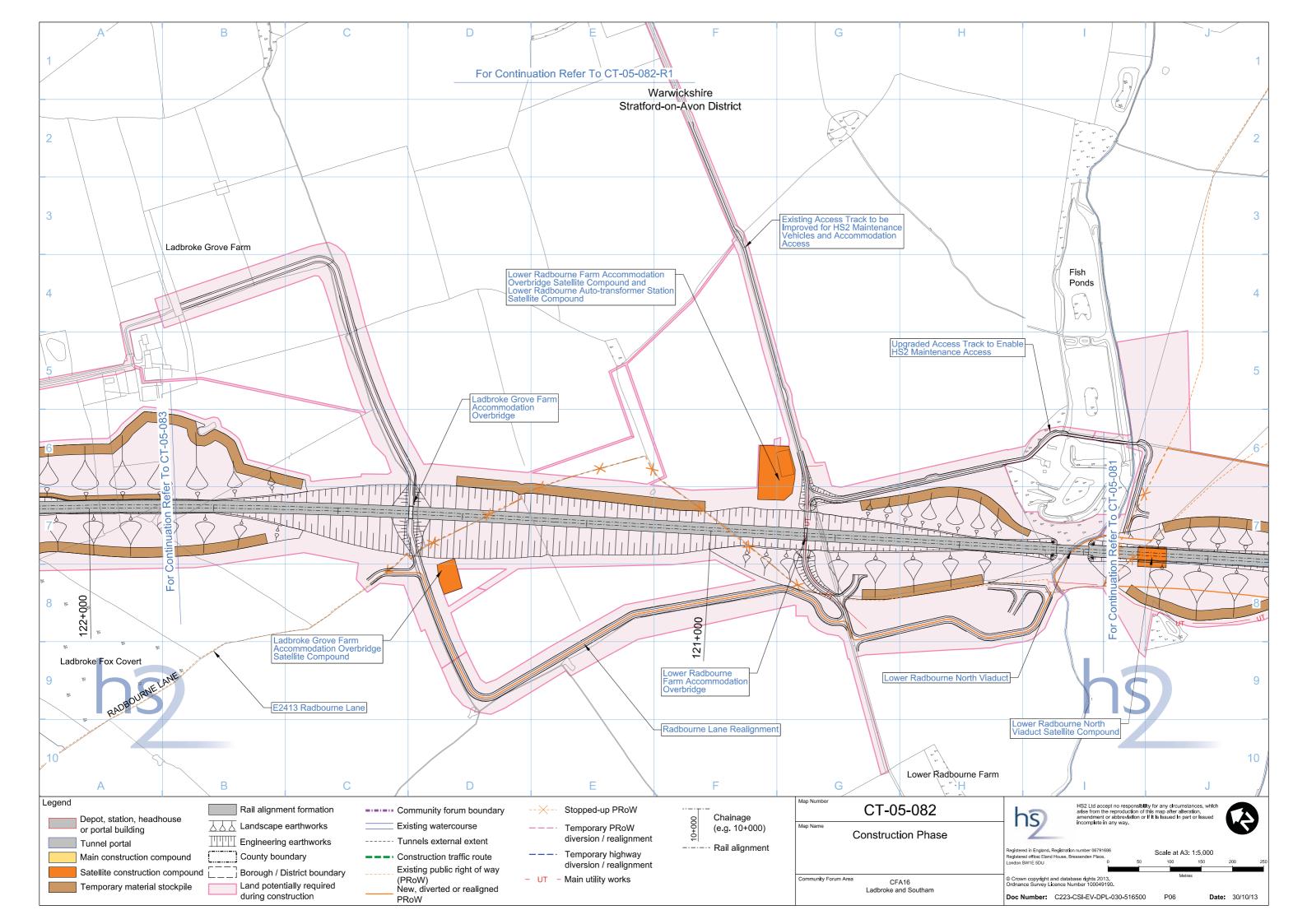


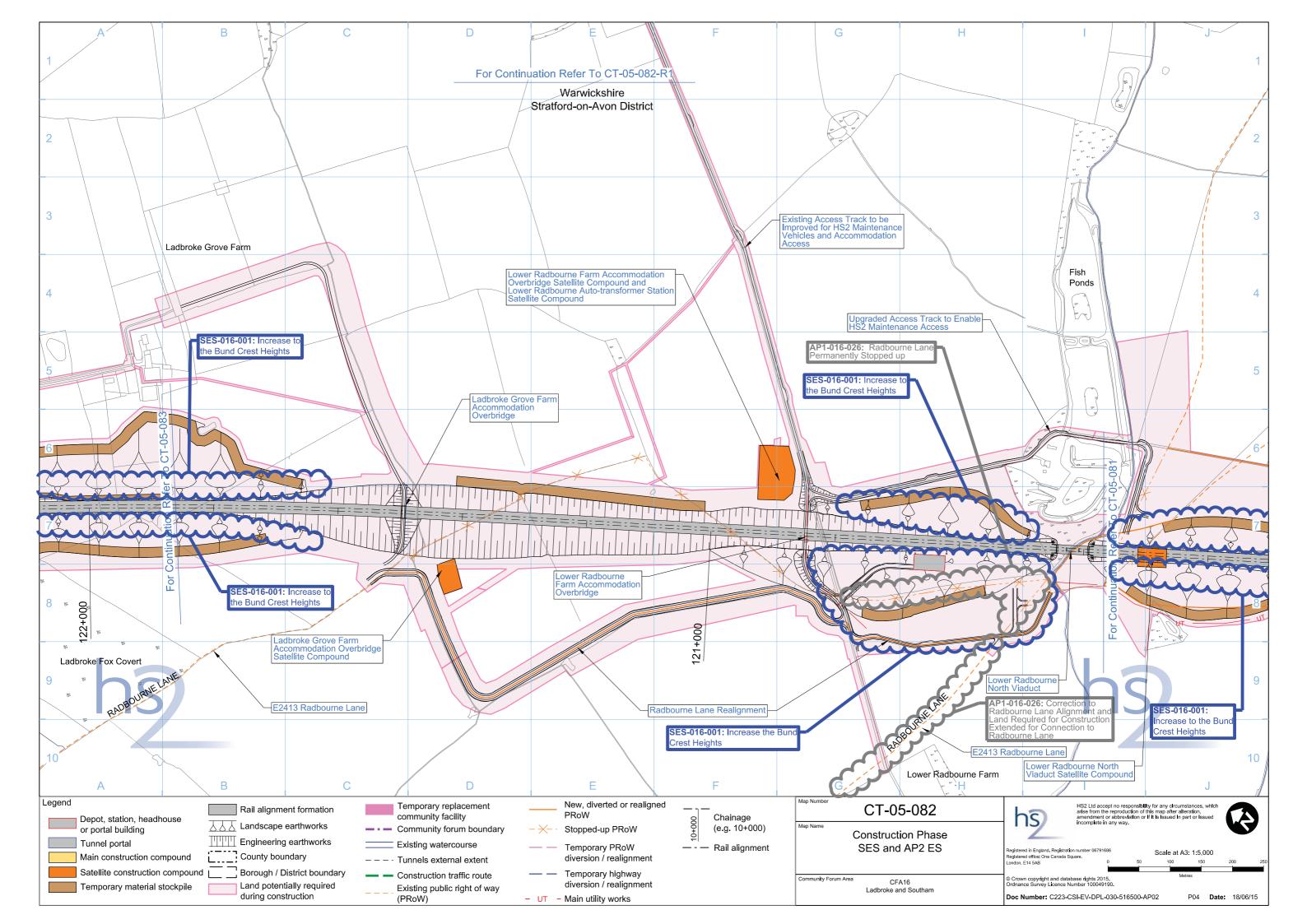


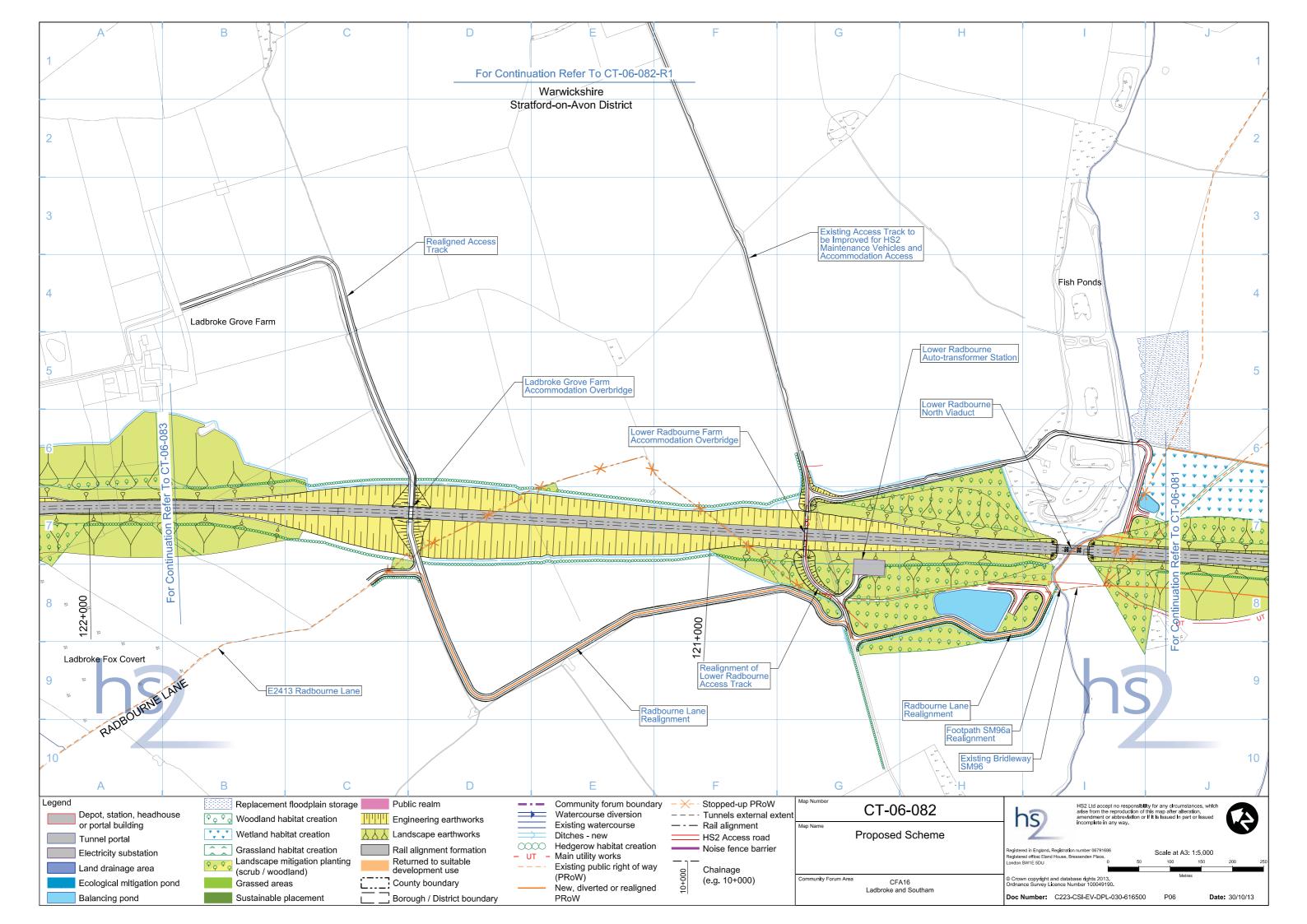


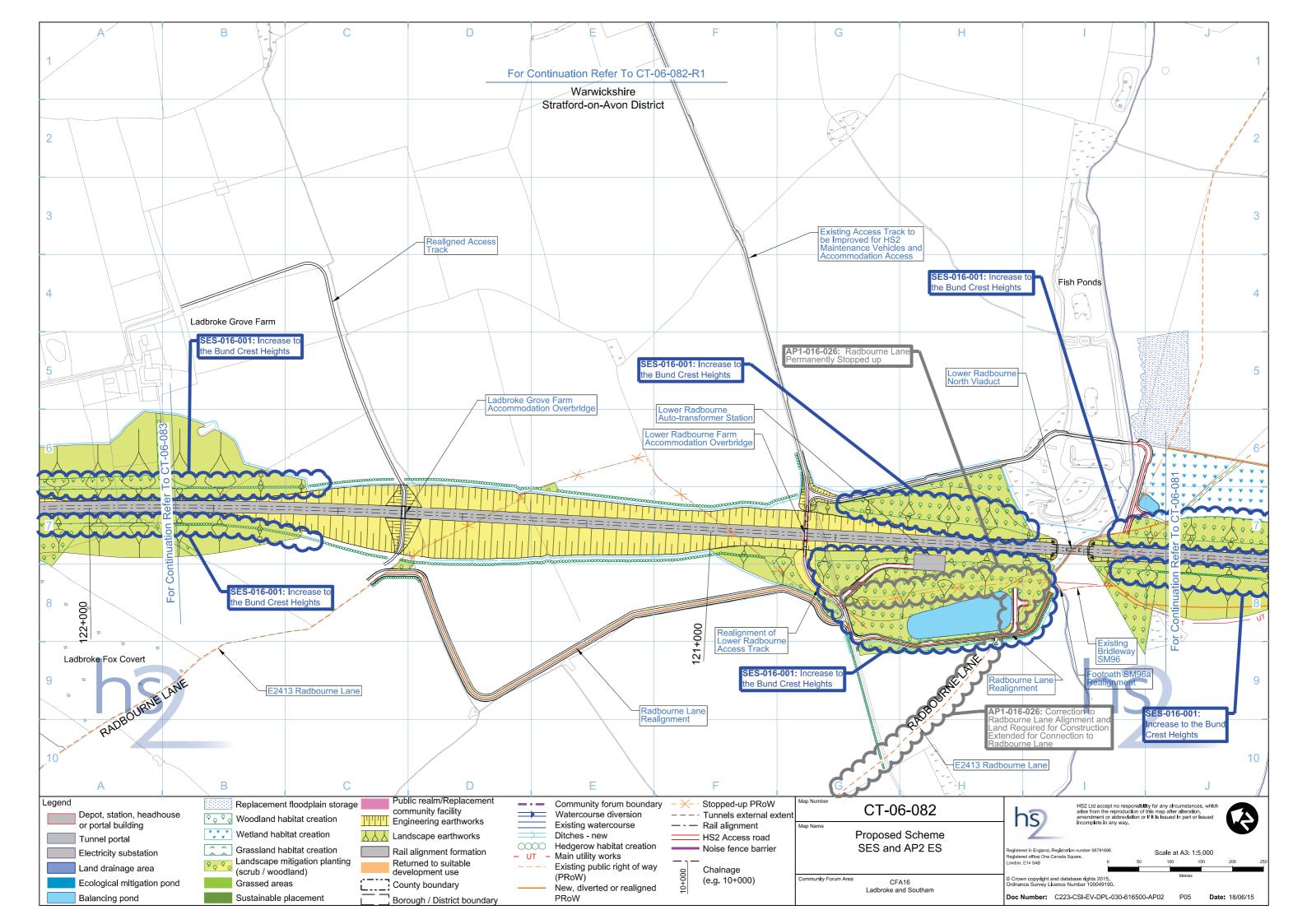


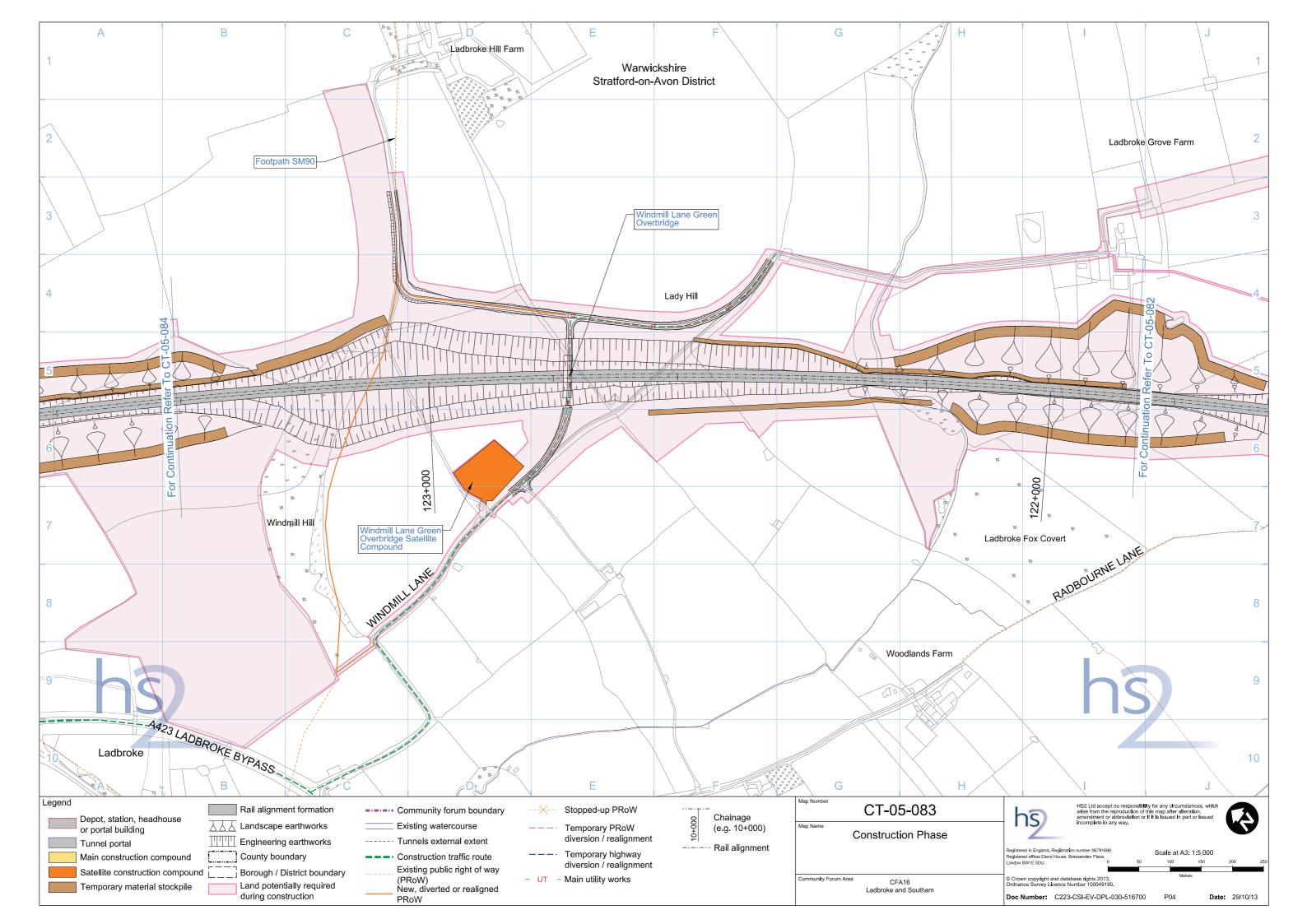


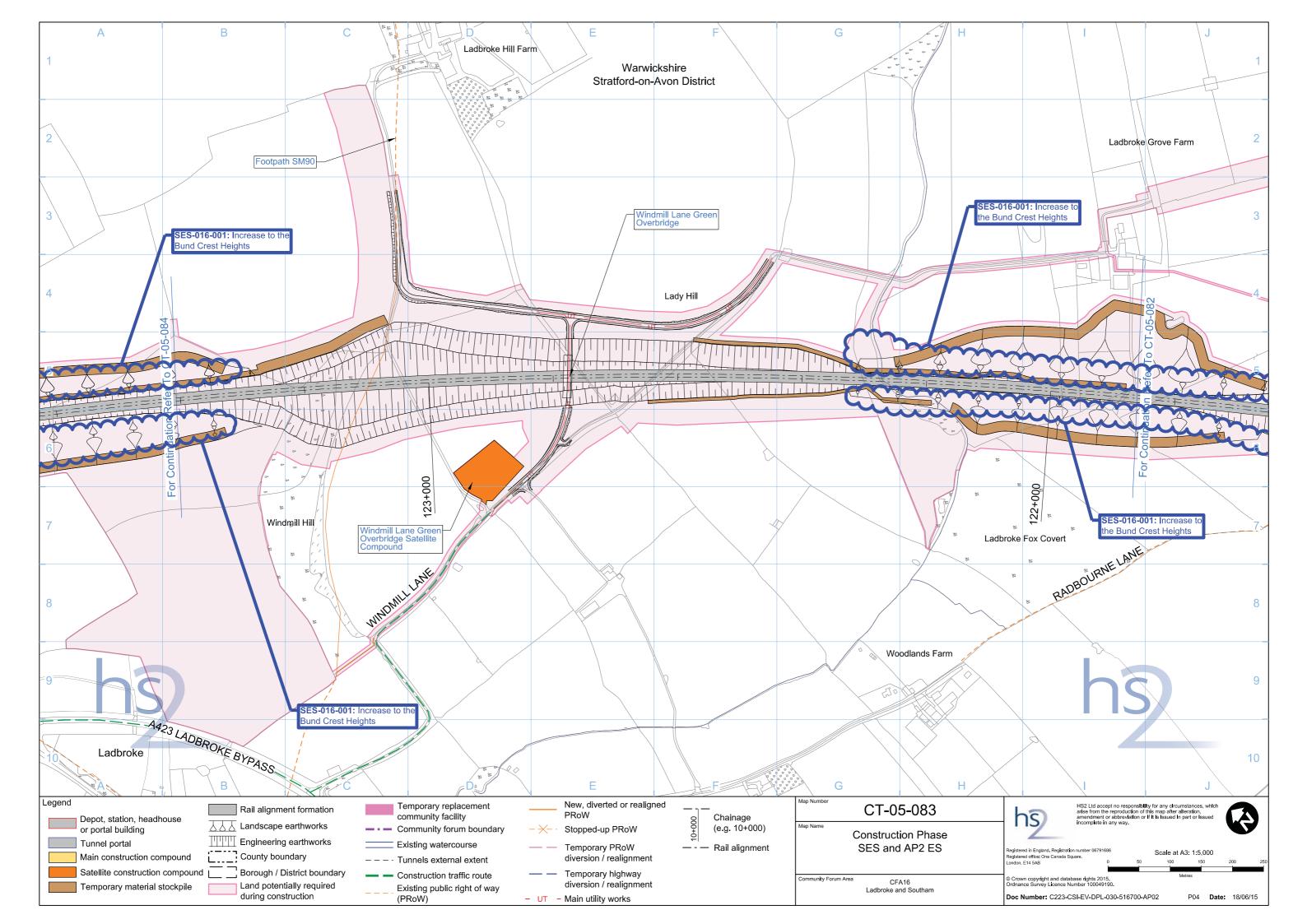


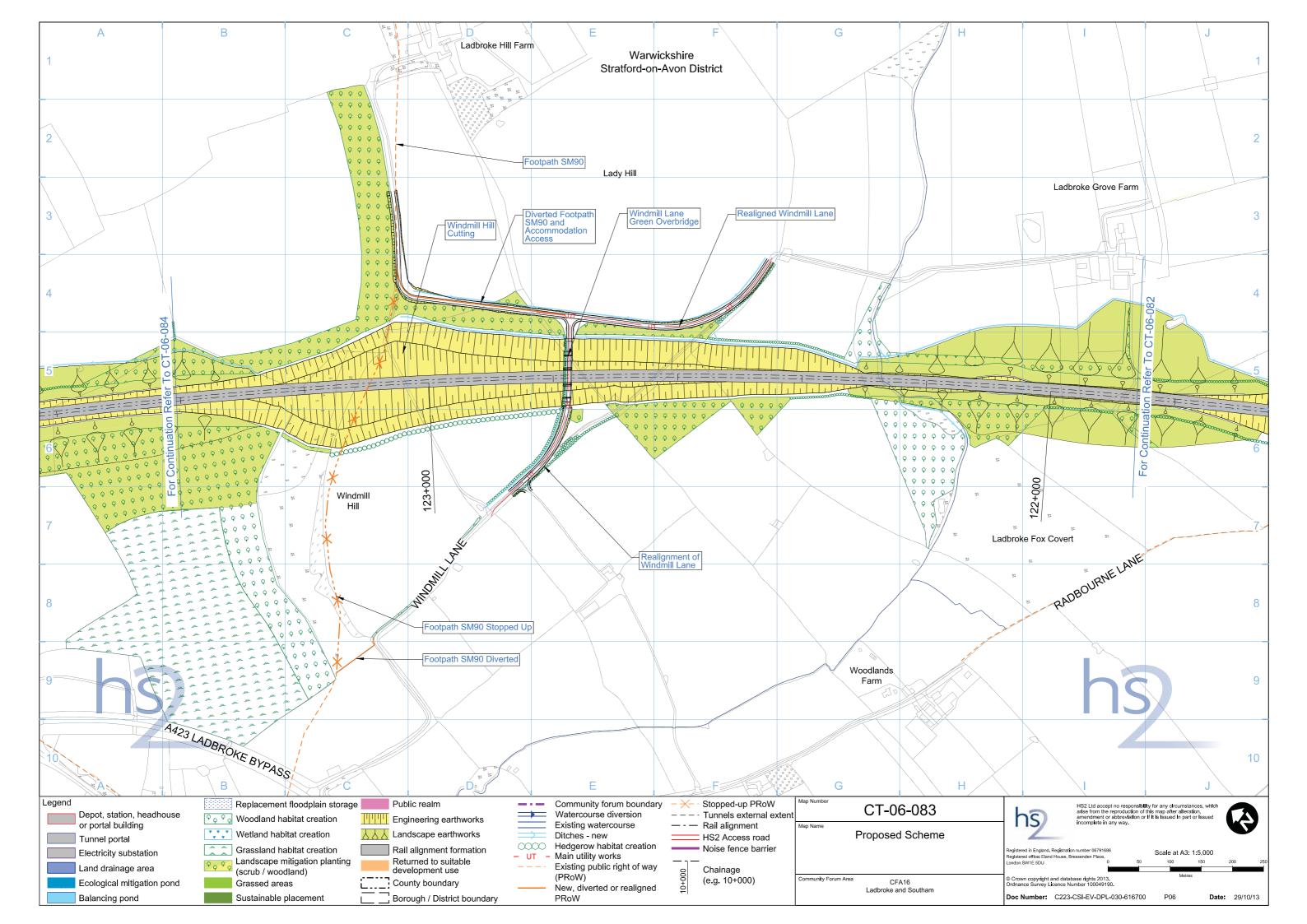


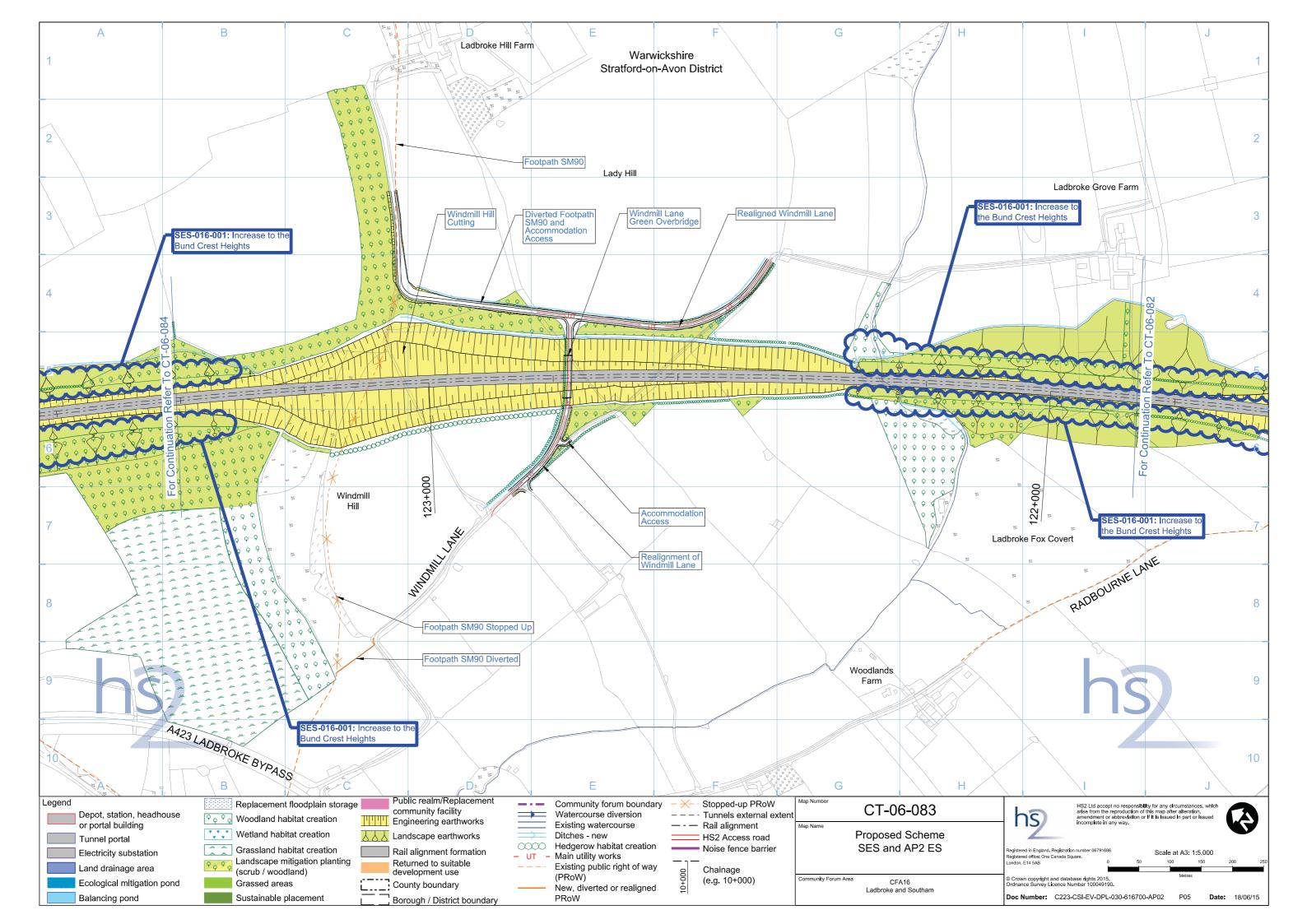


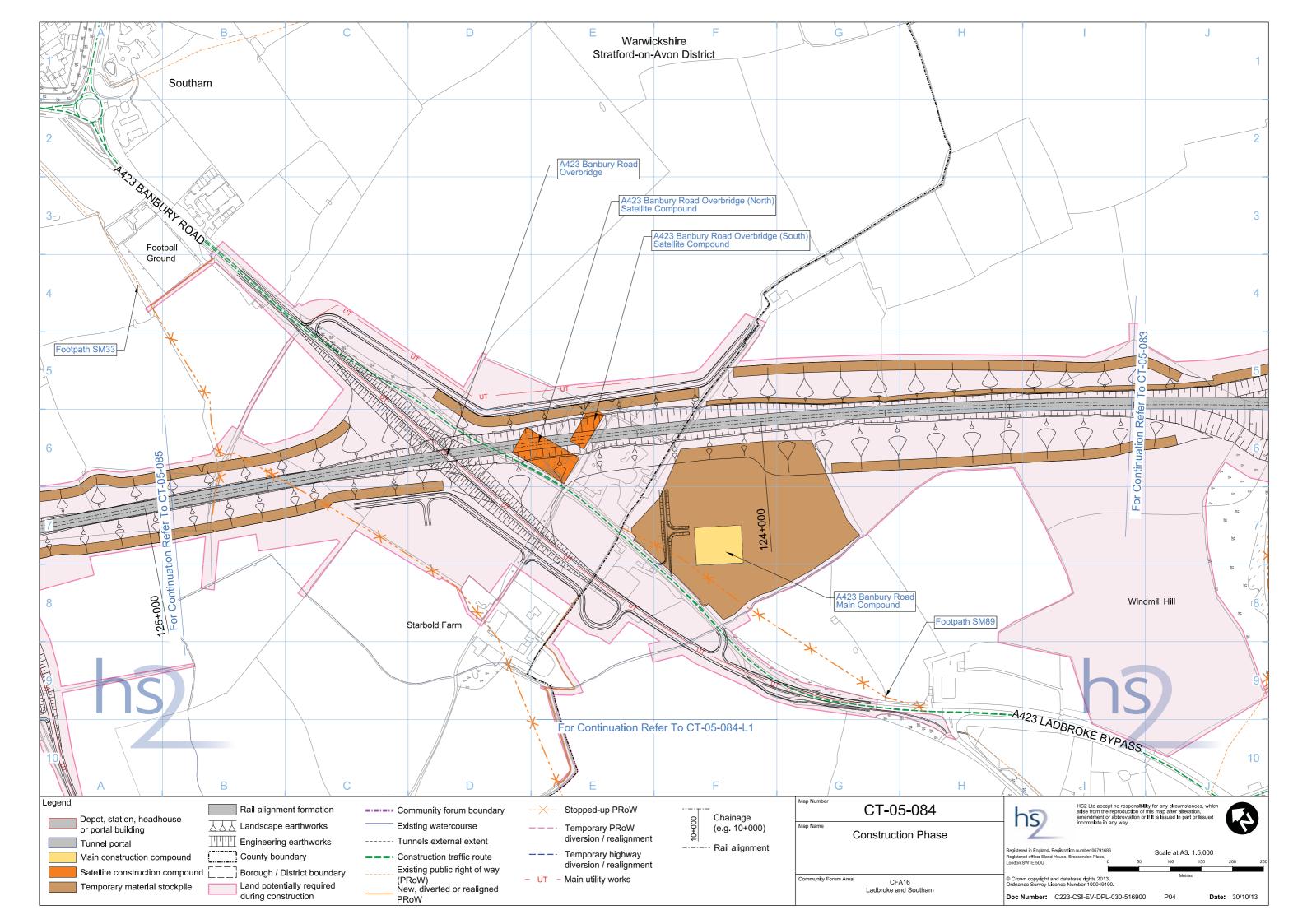


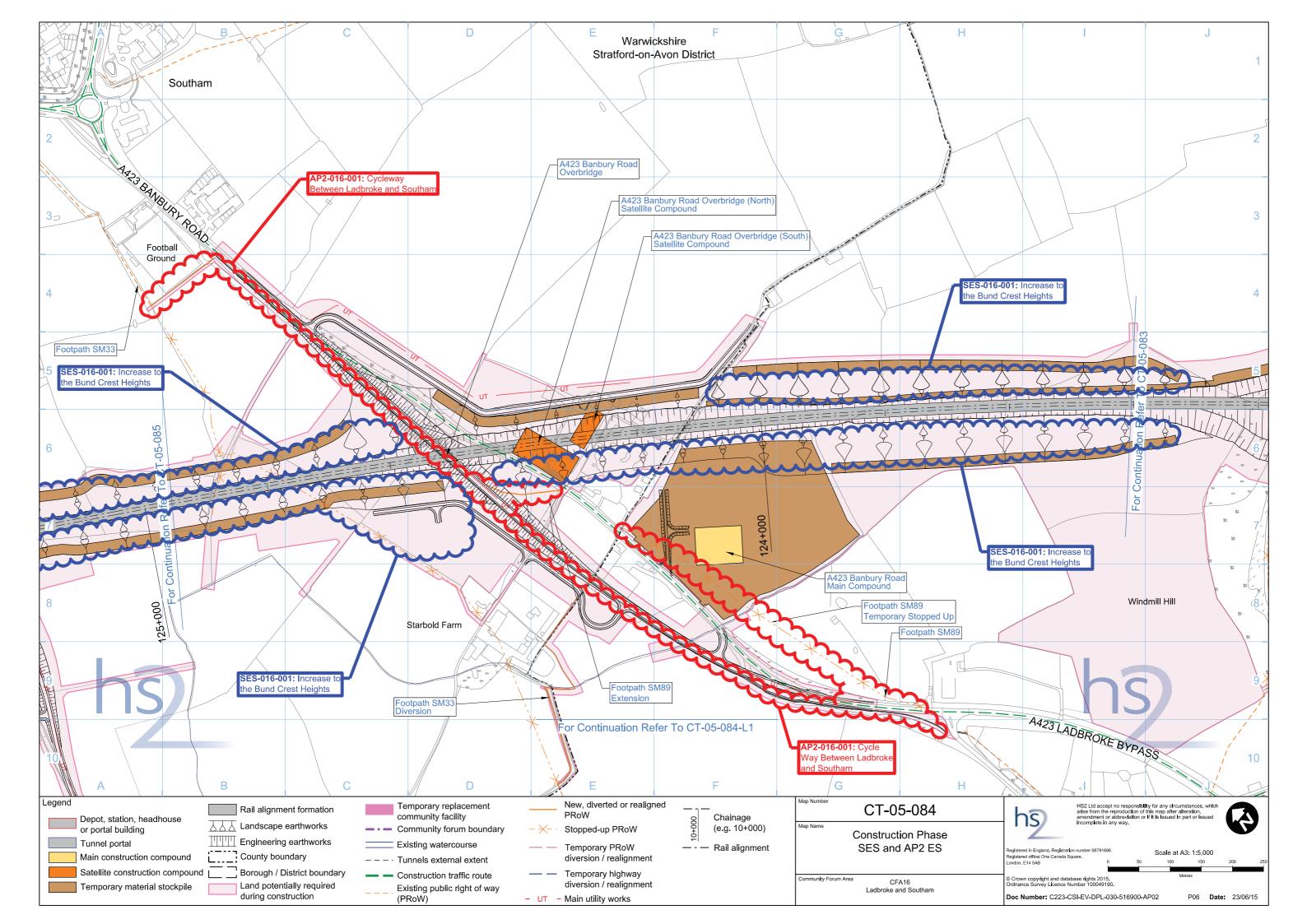


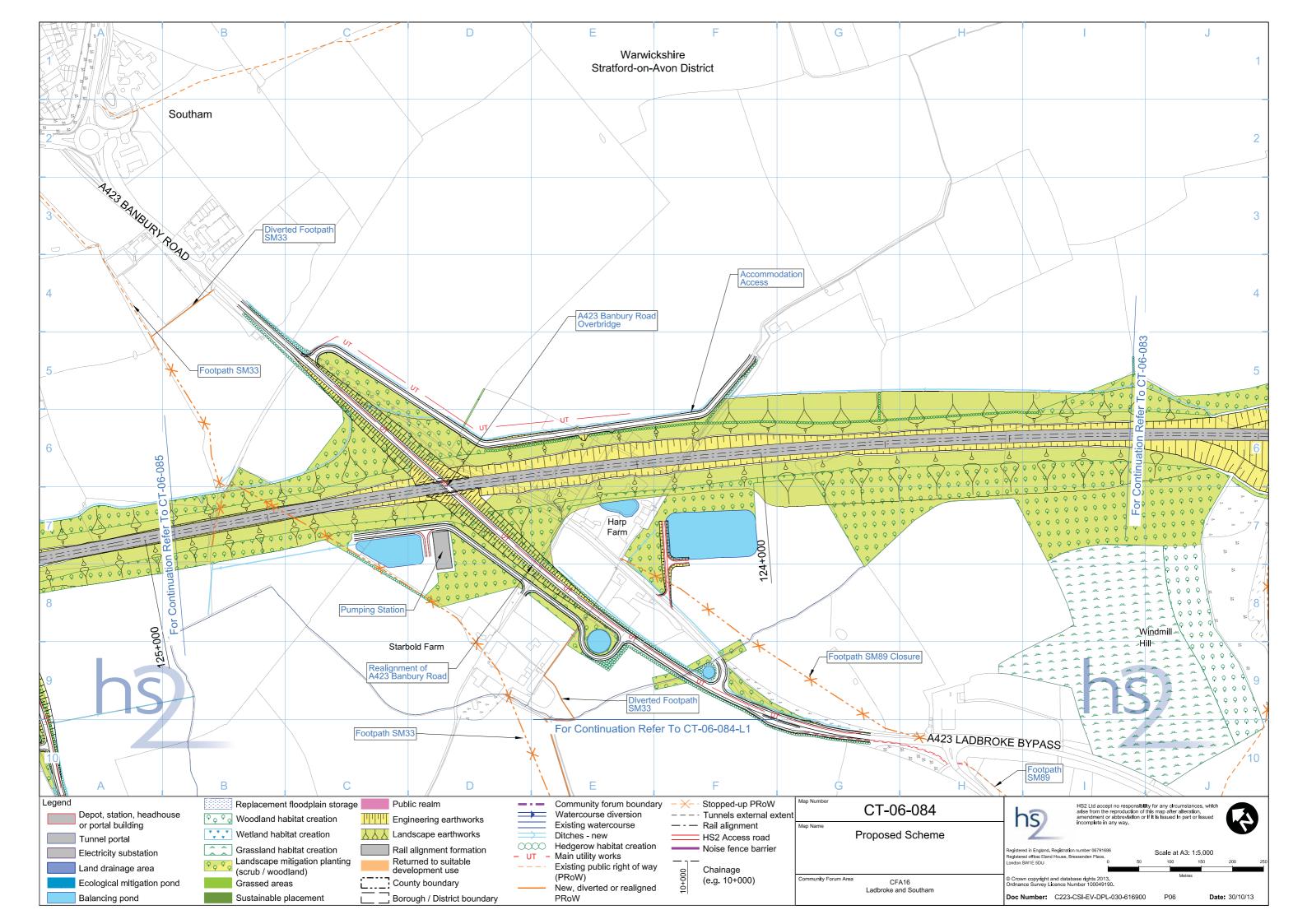


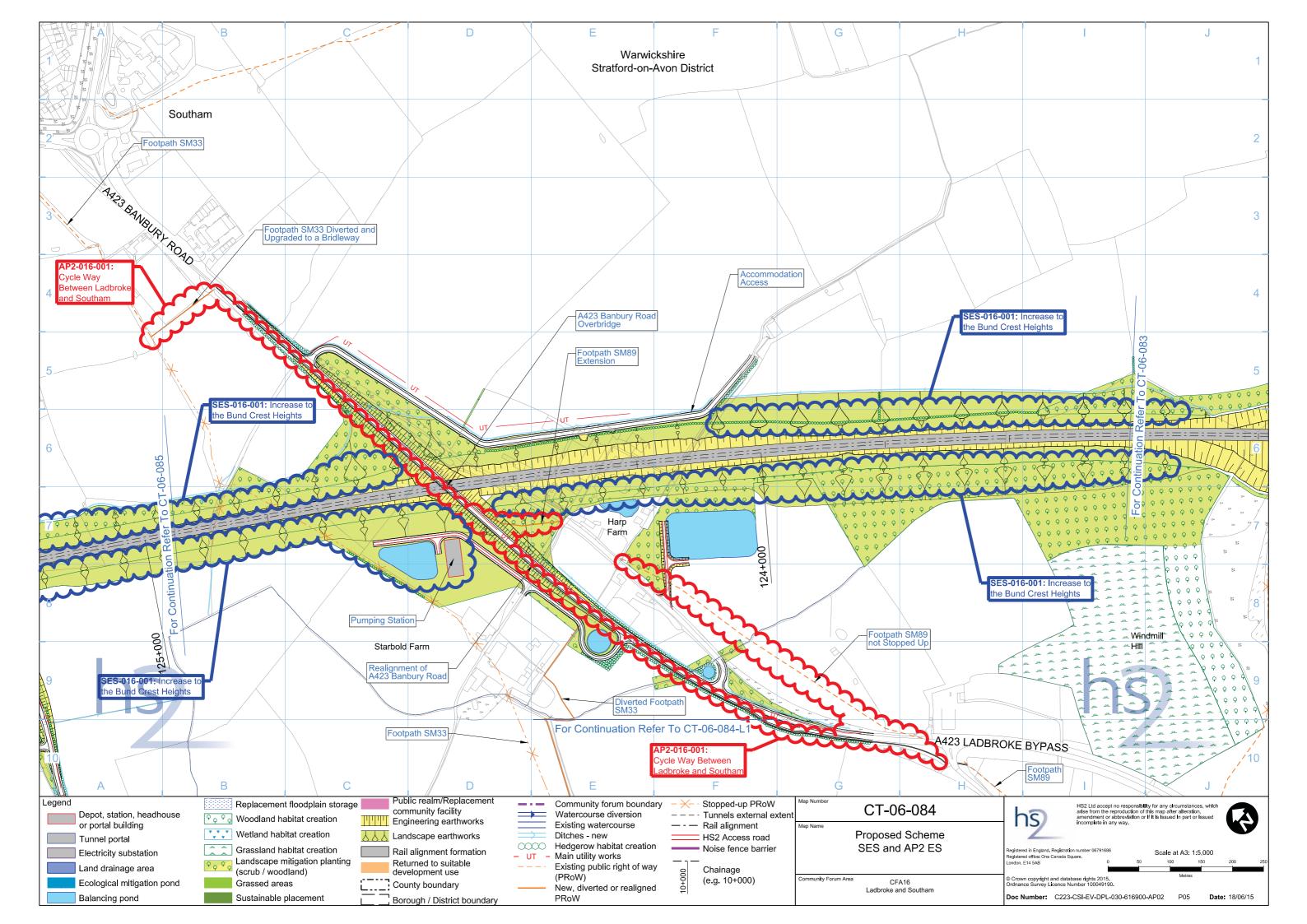


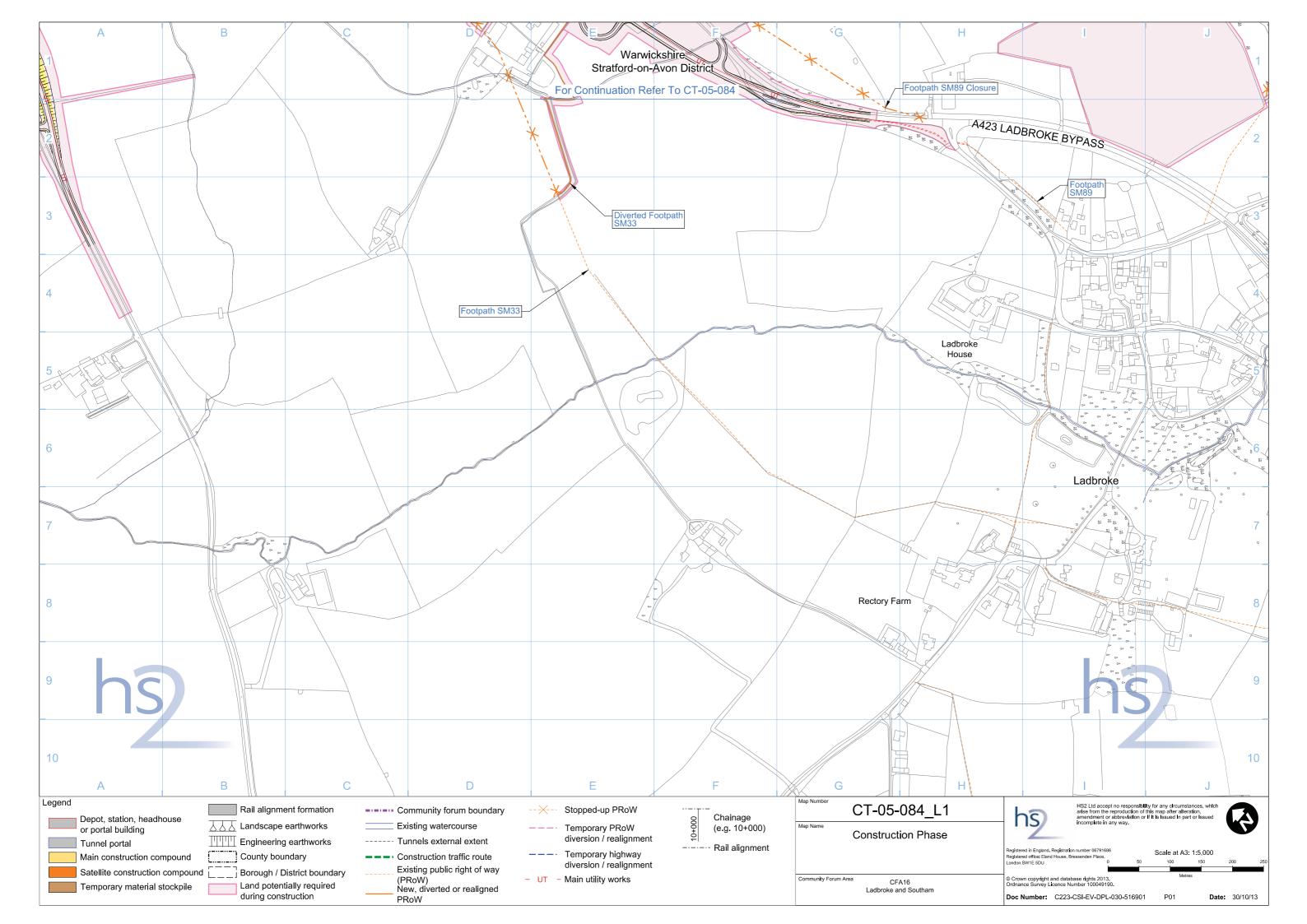


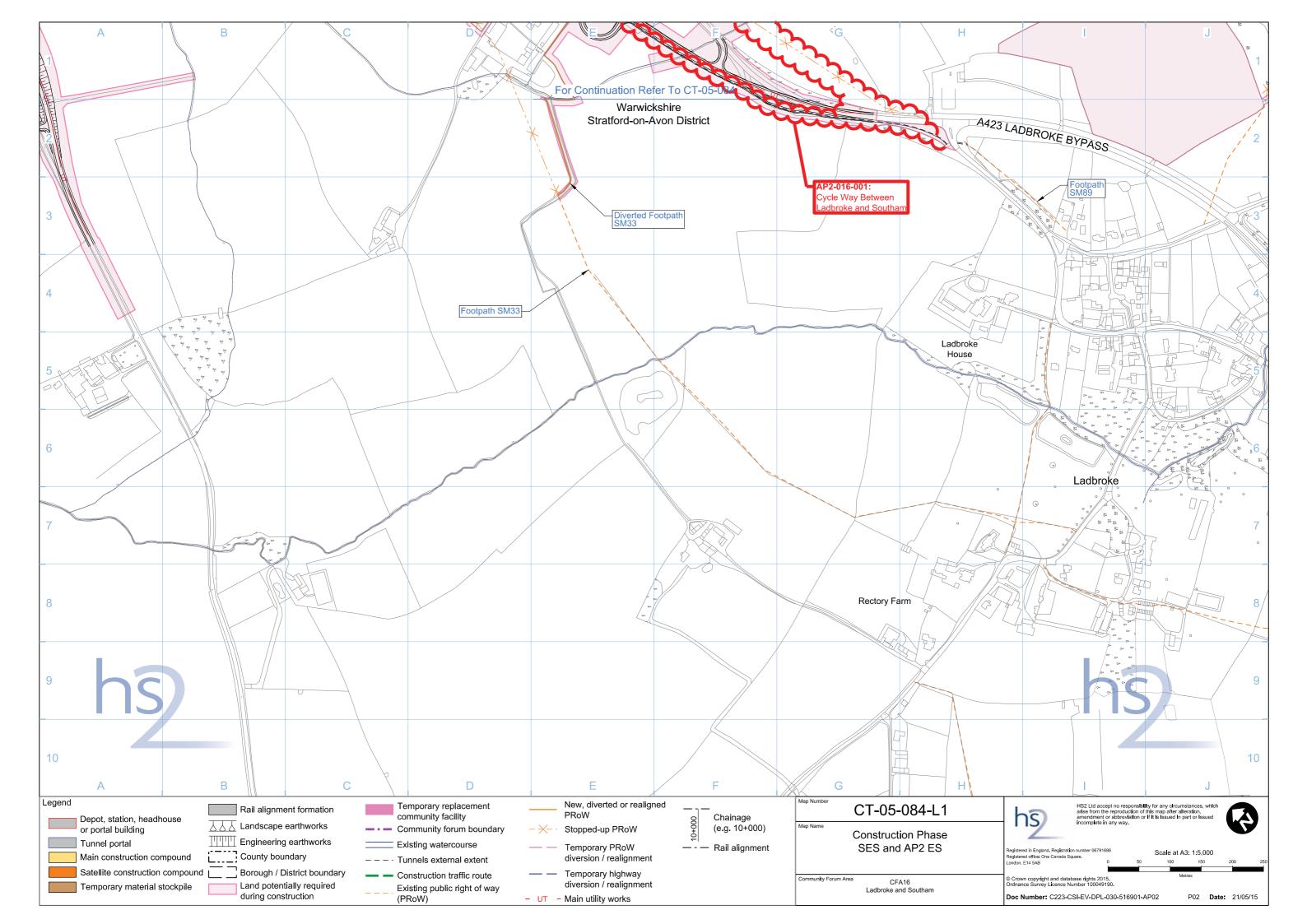


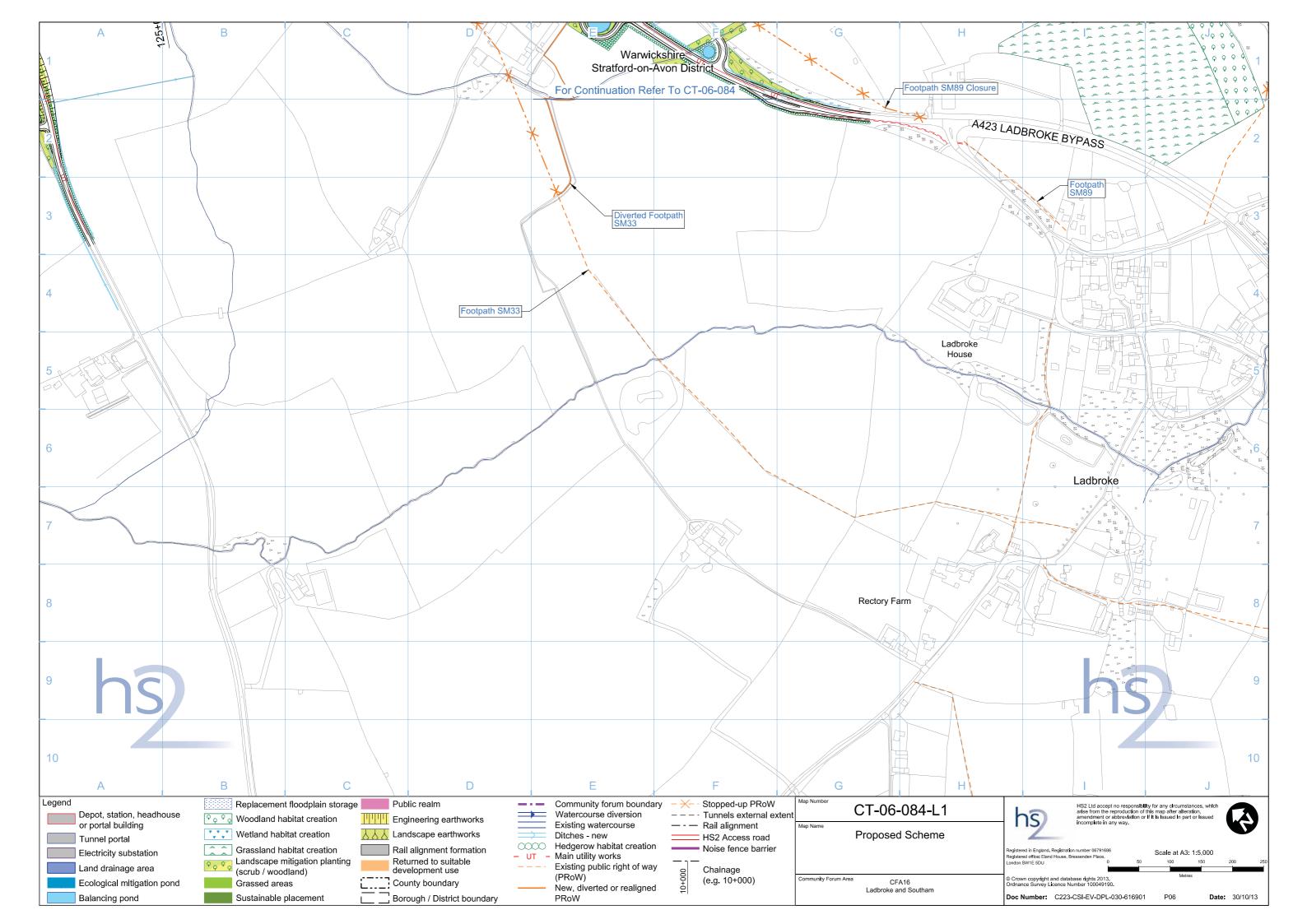


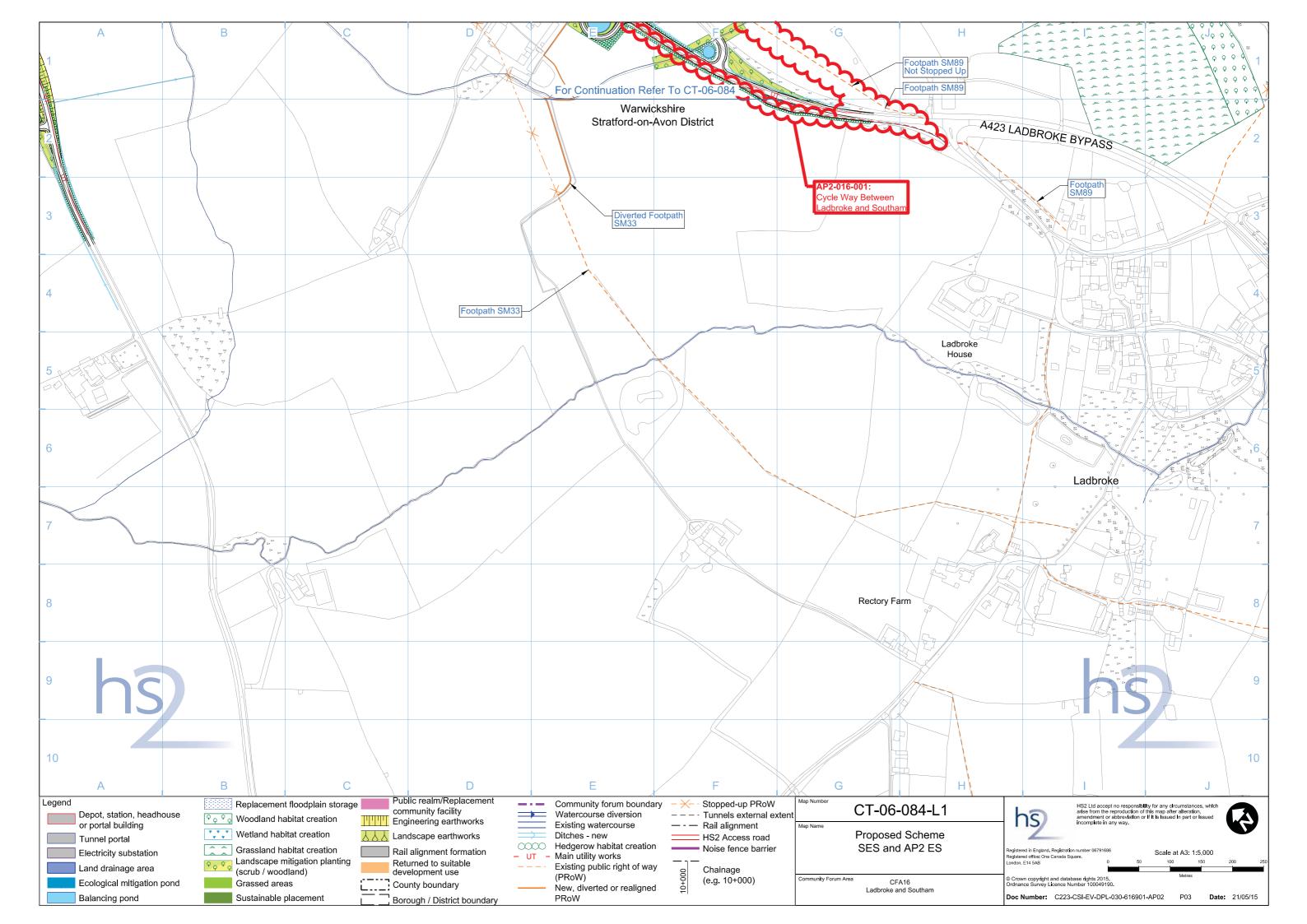


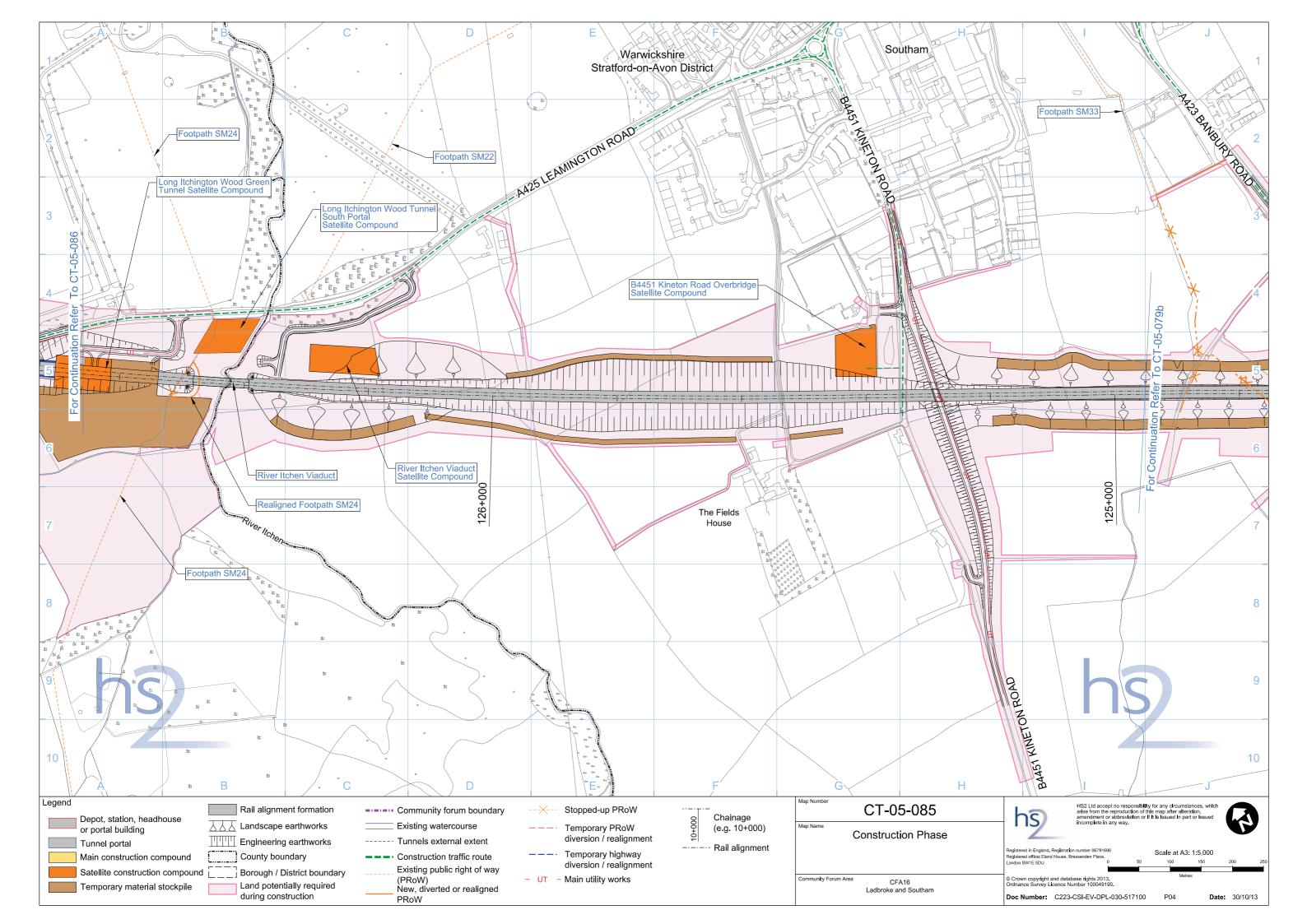


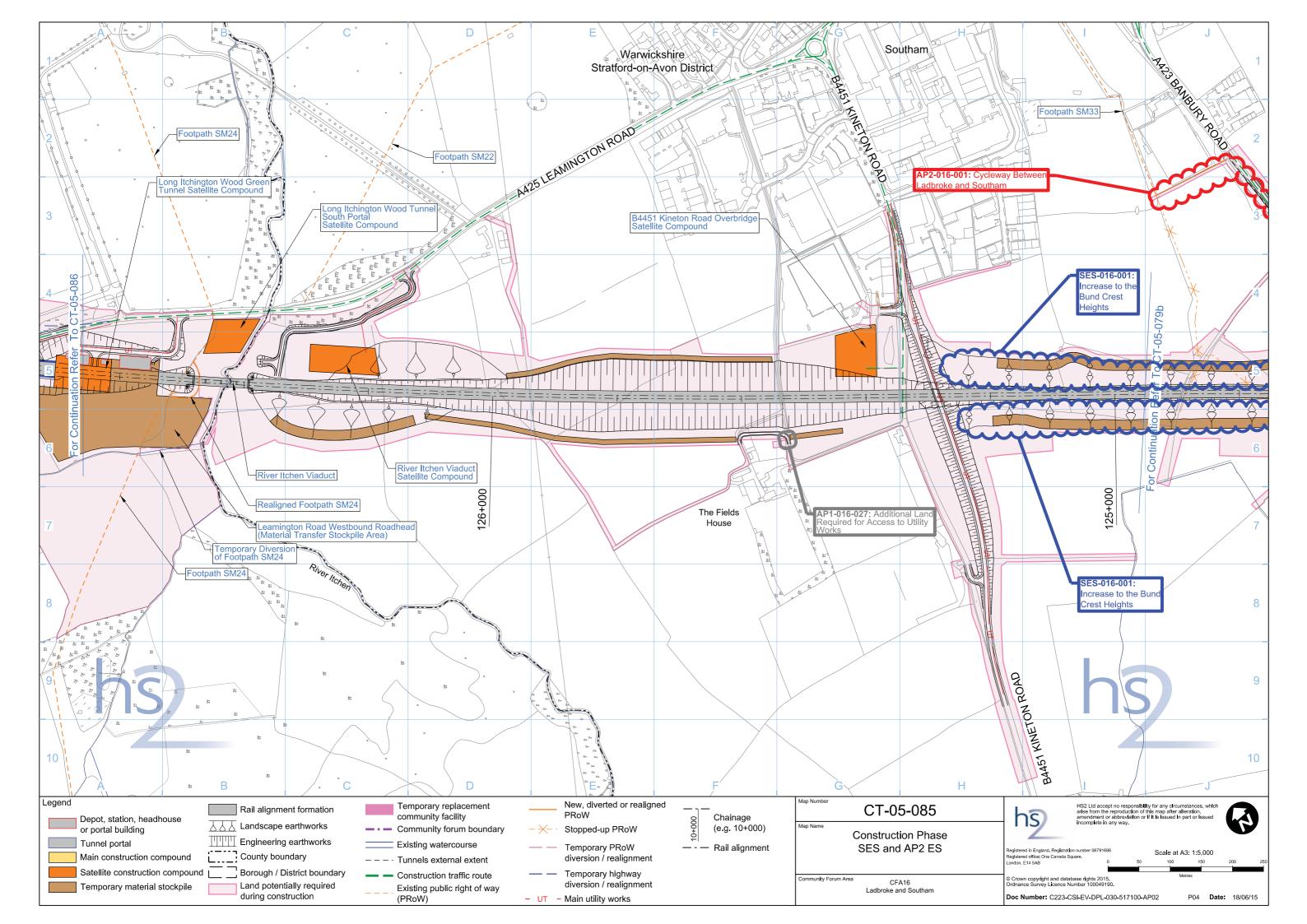


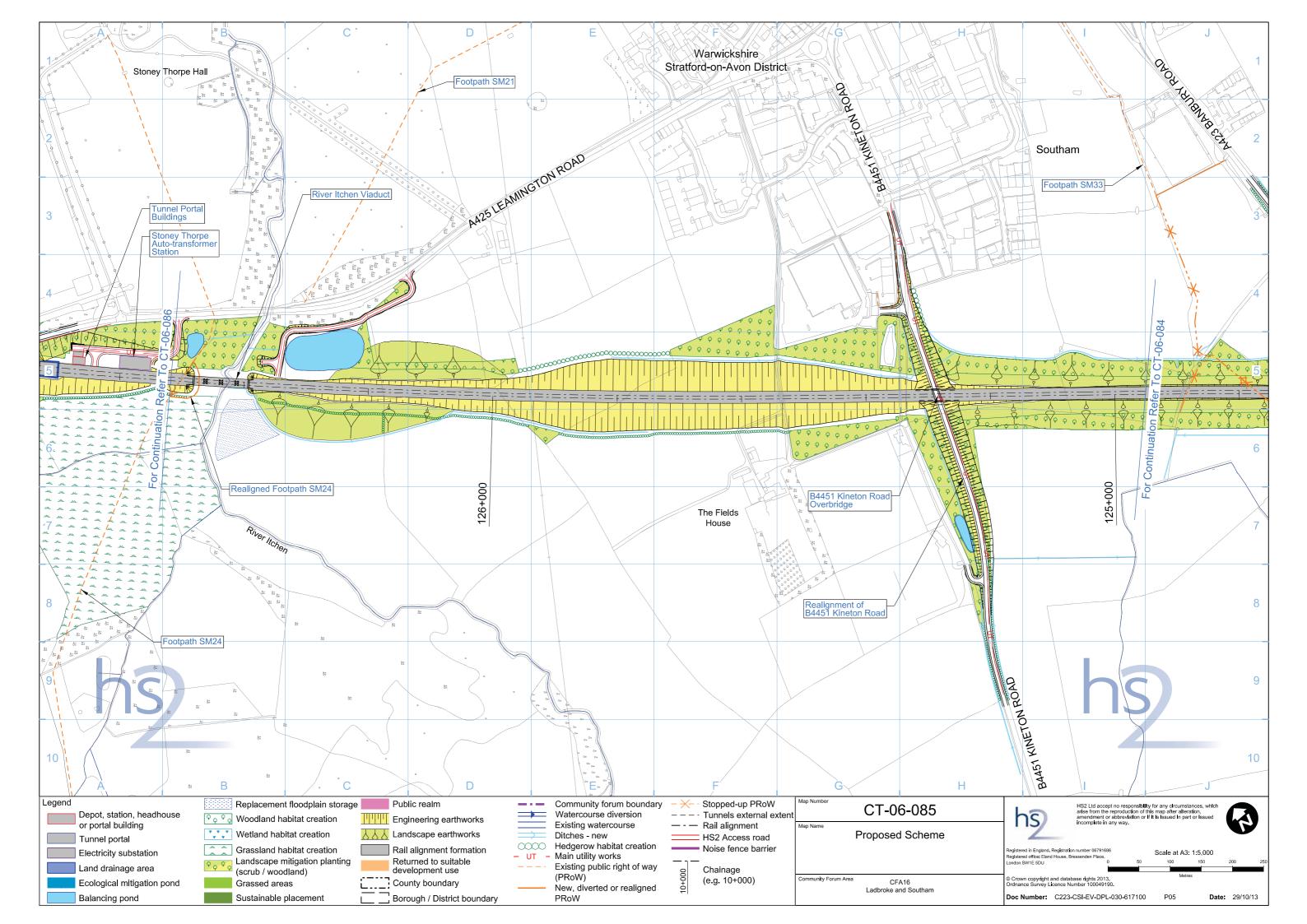


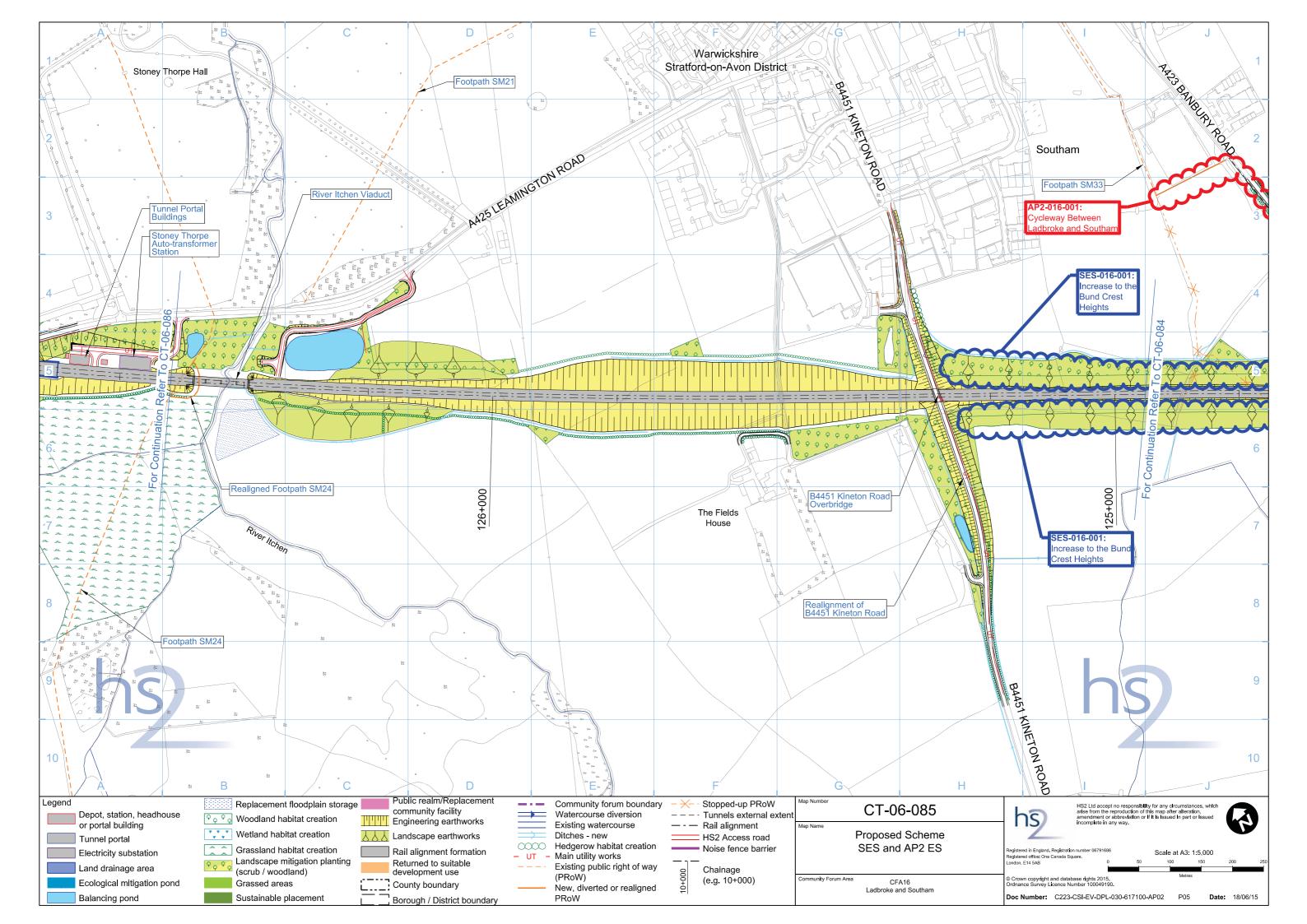












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HIGH SPEED RAIL (LONDON - WEST MIDLANDS)

Supplementary Environmental Statement and Additional Provision 2 Environmental Statement

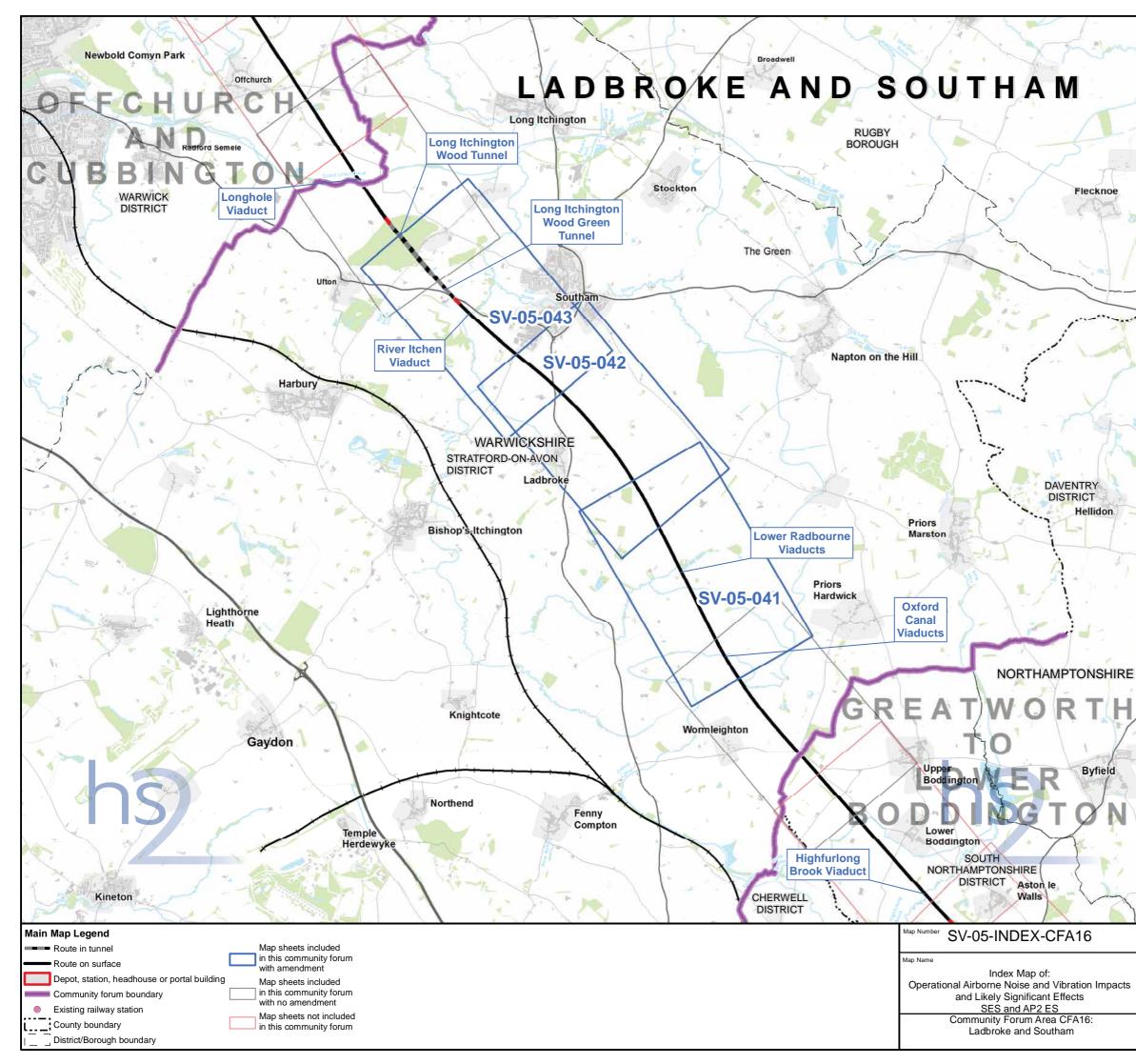
Volume 2 | SV-05 – Operational Sound and Vibration Impacts and Likely Significant Effects

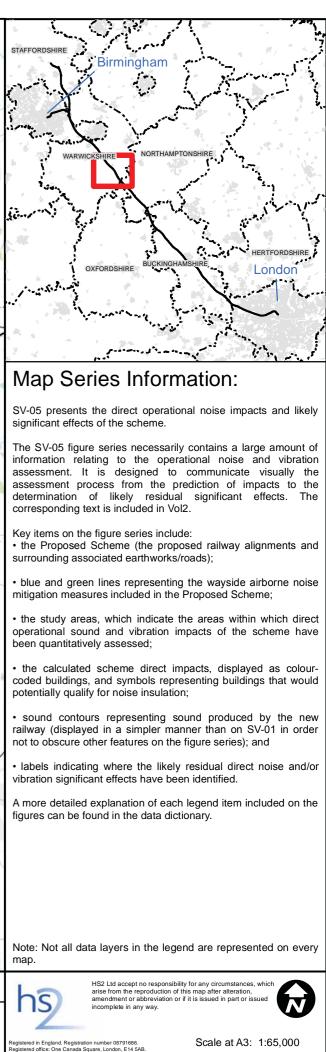
SES and AP2 ES – VOLUME 2



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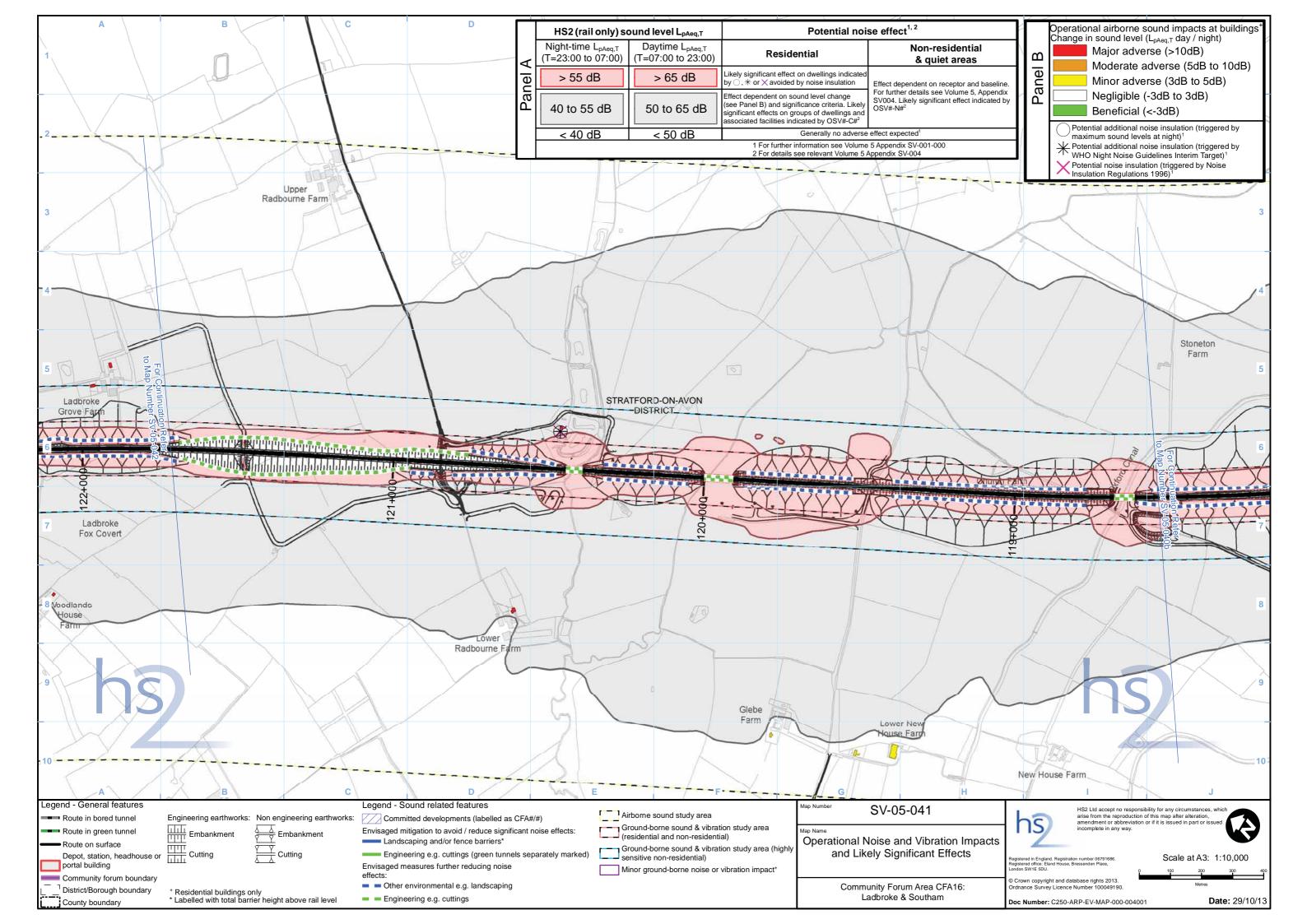


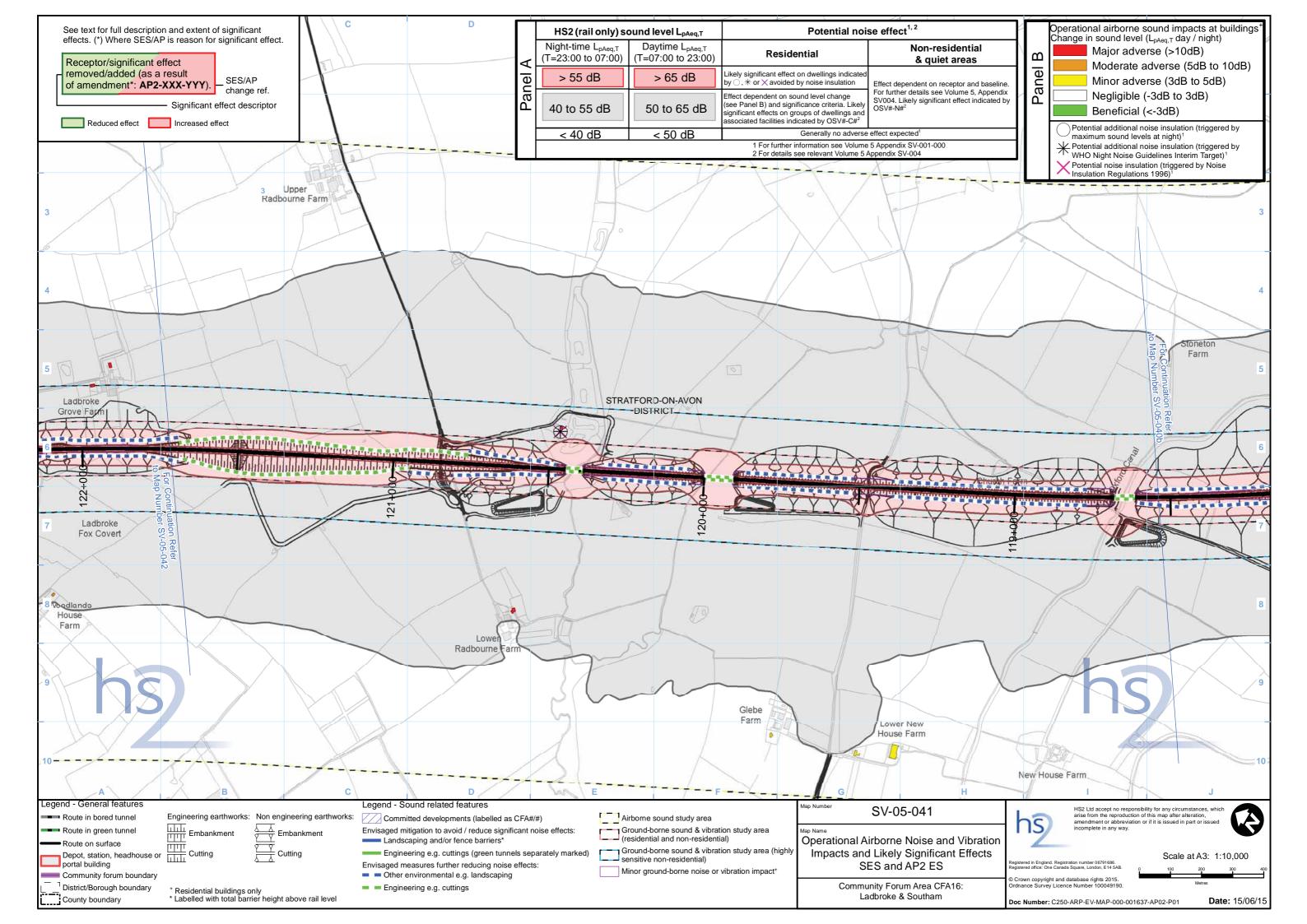


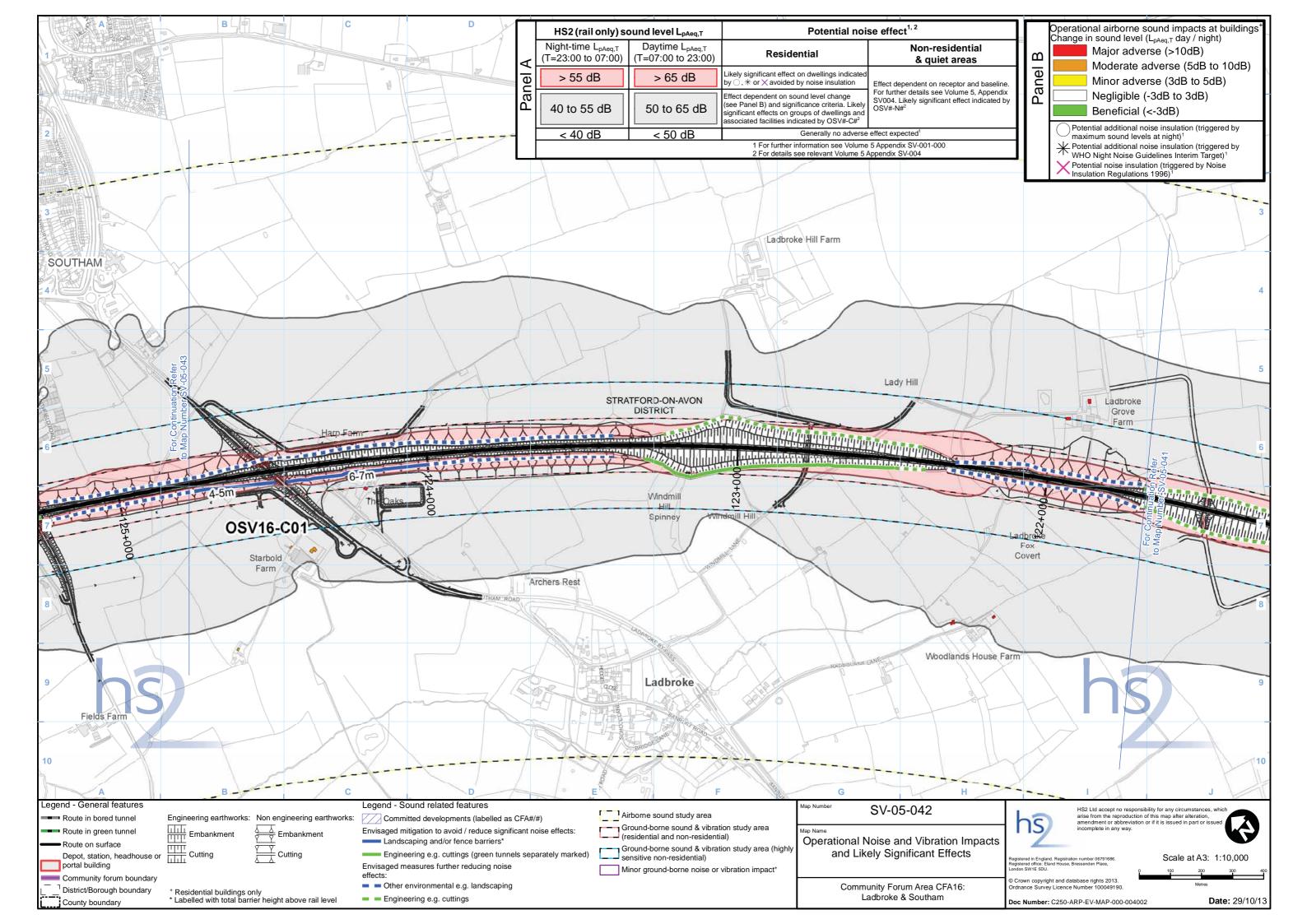
© Crown copyright and database rights 2015 Ordnance Survey Licence Number 100049190. DU 1,300 1,950 2,60 Metres

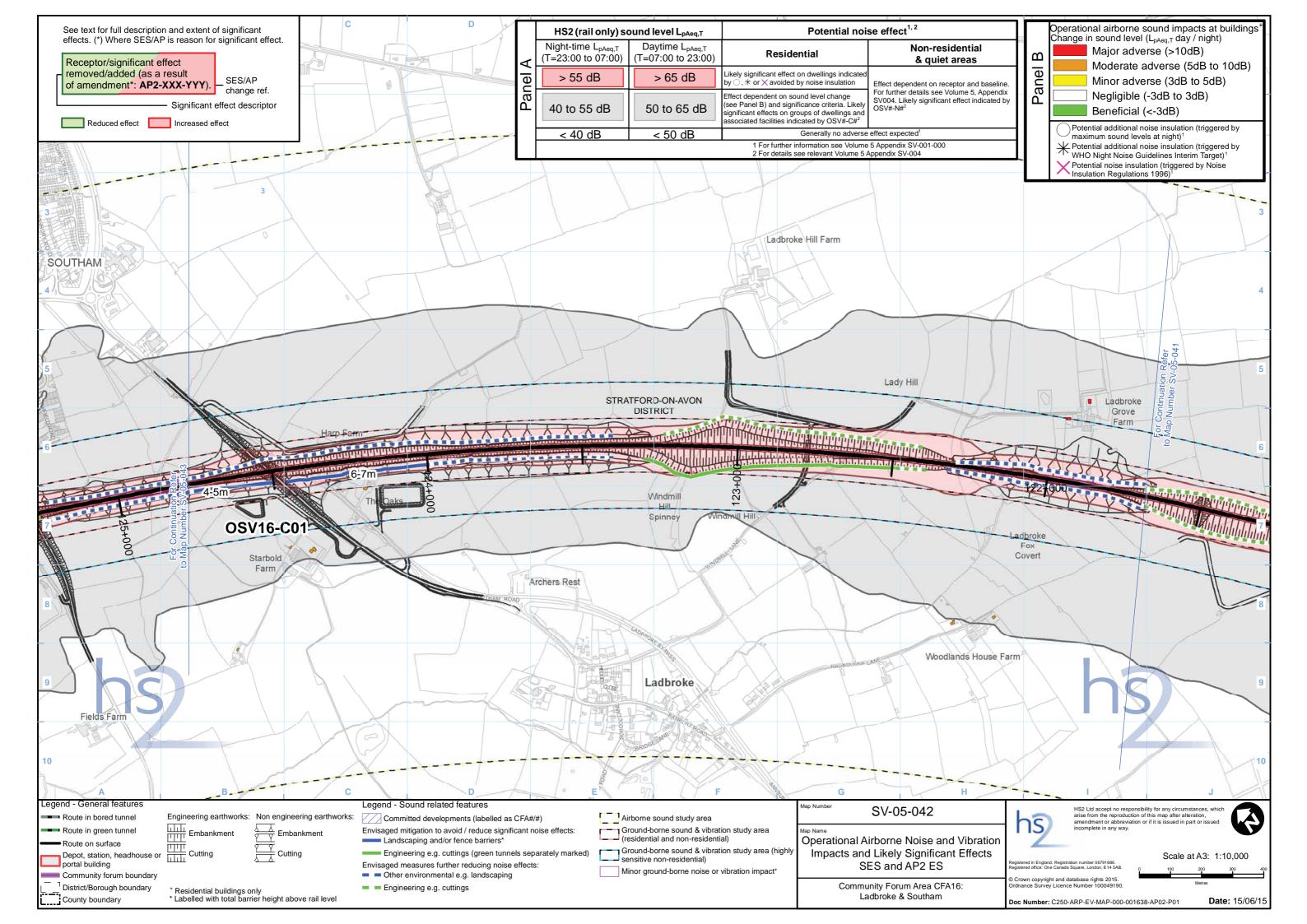
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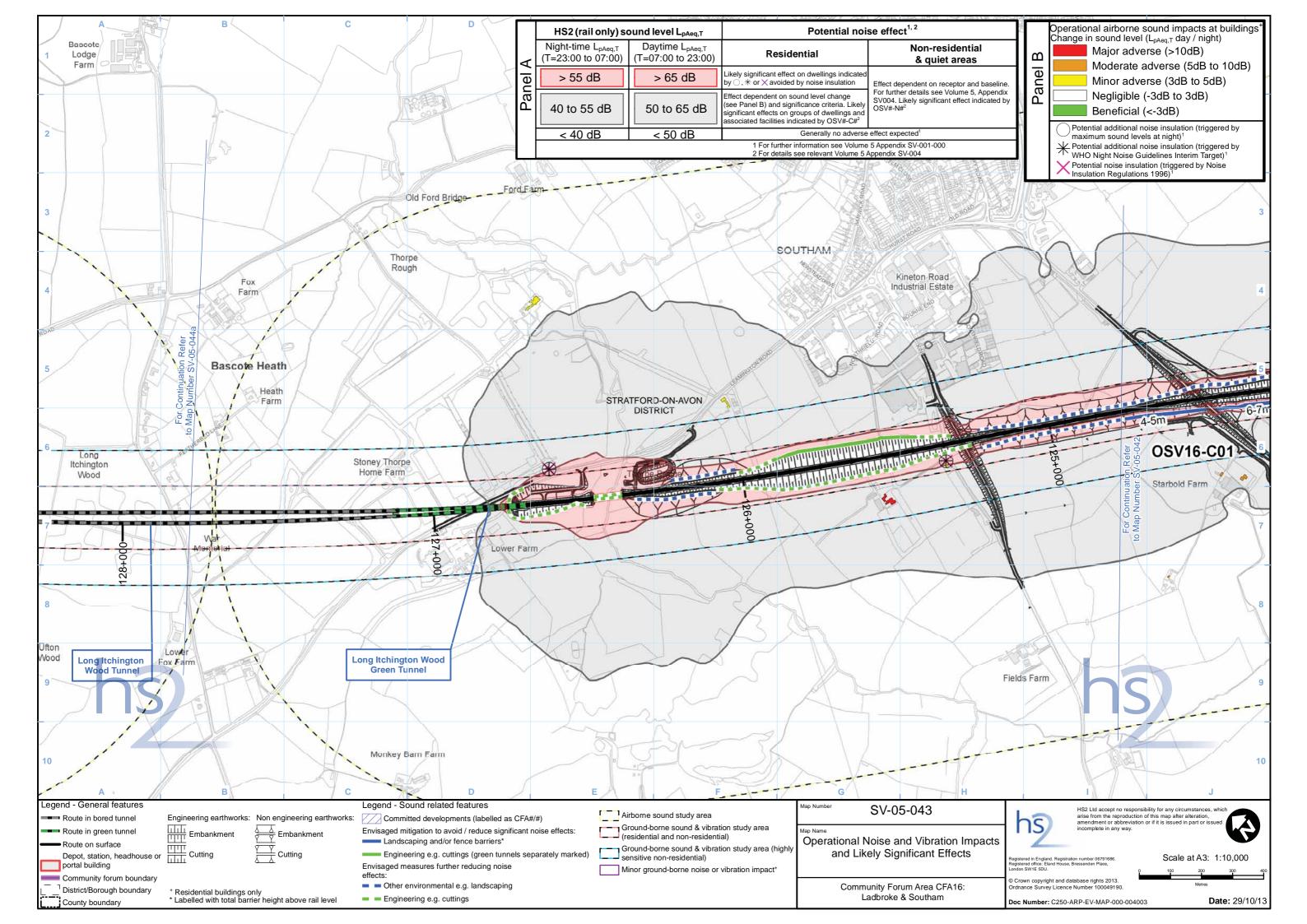
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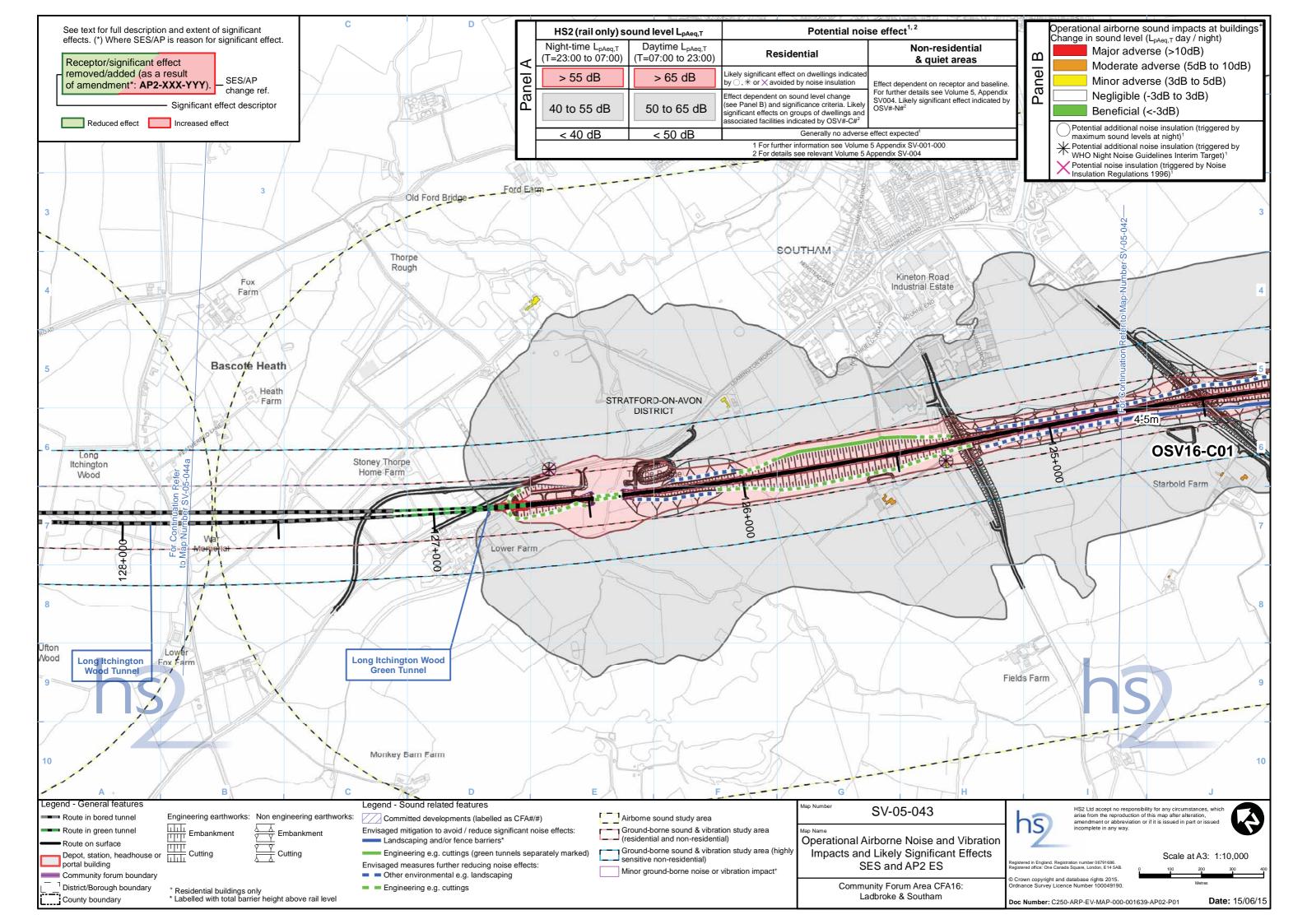












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