

High Speed Two Phase 2a (West Midlands - Crewe)

Background Information and Data

Map book

Ecology (EC-02, EC-04, EC-05, EC-06, EC-07, EC-08, EC-09, EC-10, EC-11, EC-12) Part 2

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Department
for Transport

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

ARUP



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Contents

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Data dictionary and definitions

Map series name	Map series description	Map book part
EC-02 - Phase 1 Habitat (1:10,000)	This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey or the area mapped is between 250-500m from the boundary of the land potentially required during construction, the information is based on available desk study and interpretation of aerial photography.	Background Information and Data map book – Ecology Part 1
EC-04 - Amphibians	This map series shows the results of amphibian surveys conducted to inform the Environmental Statement. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.	Background Information and Data map book – Ecology Part 1
EC-05 - Bat - Roost	This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.	Background Information and Data map book – Ecology Part 1
EC-06 - Bat - Activity	This map series shows the location of bat activity surveys conducted to inform the Environmental Statement. In addition it shows the location of the key bat foraging and commuting routes which have been established on the basis of the survey work conducted.	Background Information and Data map book – Ecology Part 1
EC-07 - Reptiles	This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 2
EC-08 - Breeding Birds - Protected and Notable Species	This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.	Background Information and Data map book – Ecology Part 2
EC-09 - Wintering and Passage Birds – Protected and Notable Species	This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.	Background Information and Data map book – Ecology Part 2
EC-10 - Phase 2 Habitat Survey	This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'Important hedgerows' under the Hedgerows Regulations (1997).	Background Information and Data map book – Ecology Part 3
EC-11 - Other Protected and Notable Species (1)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 3
EC-12 - Other Protected and Notable Species (2)	This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.	Background Information and Data map book – Ecology Part 3

Mapping explanatory notes

This map book is part of the background information and data (BID) for Phase 2a of the proposed High Speed Two (HS2) rail network between the West Midlands and Crewe (the Proposed Scheme), and comprises ecological baseline data. This map book does not form part of the Environmental Statement, but presents relevant ecological information for the Proposed Scheme.

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 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.

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Chainage

The maps presented have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY. E.g. 192+000 or 239+500.

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

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

Map orientation

The maps presented in this map book are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and Crewe to the left.

High Speed Two Phase 2a (West Midlands-Crewe)
Background Information and Data
Data dictionary and definitions

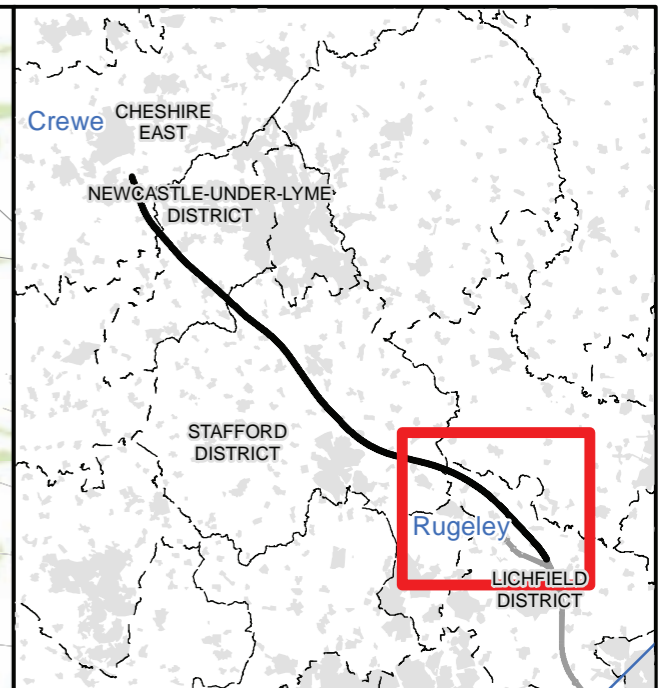
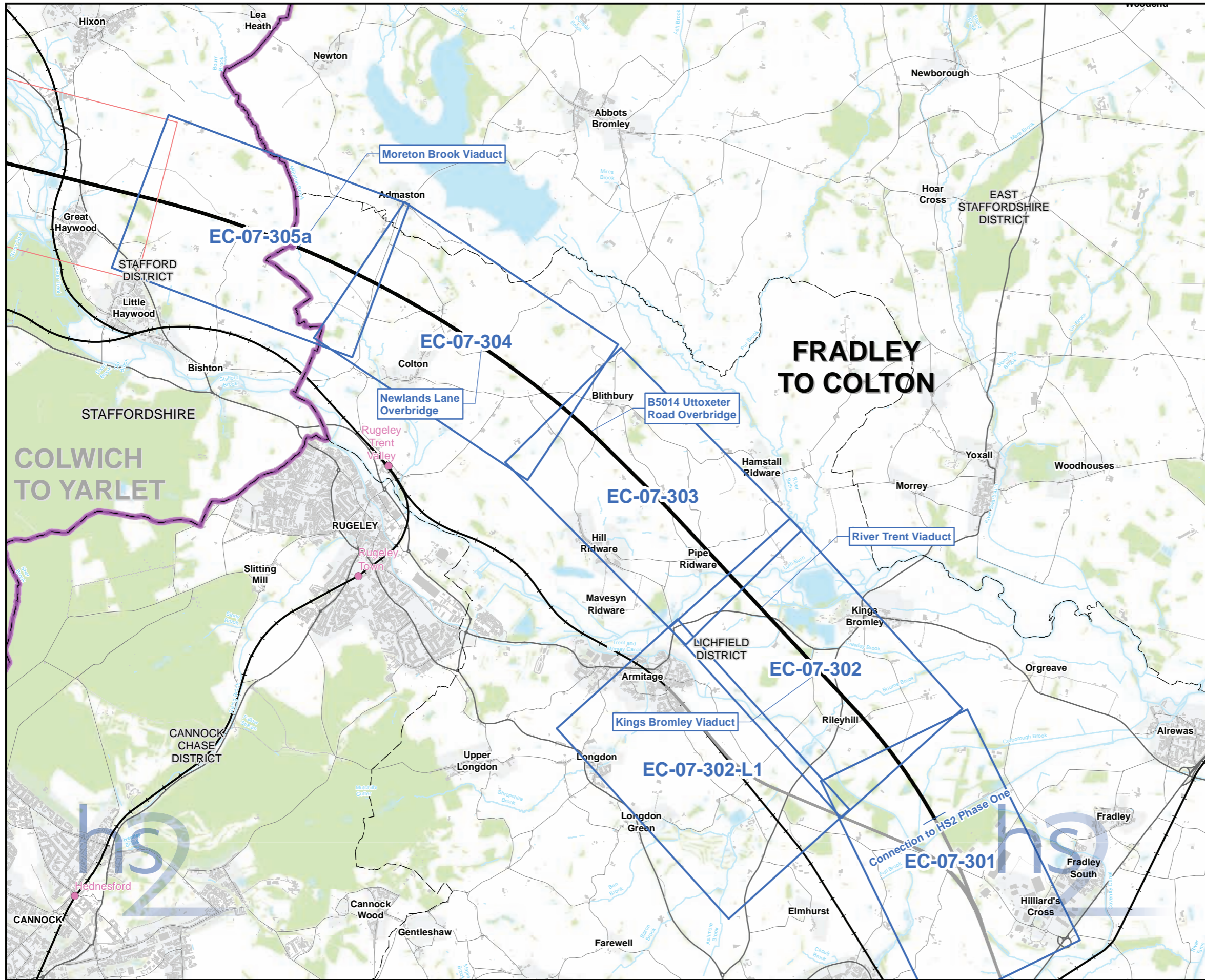
Data dictionary and definitions

Legend features	Definition	Source	Copyright
Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment – see Volume 5 Appendices	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	
Breeding birds - survey extent	Area where breeding birds survey was conducted.	High Speed Two (HS2) Ltd	
Community area boundary	The Proposed Scheme has been split into 5 sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
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. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
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	
Reptiles - Population	Areas where a reptile survey was completed. Survey varies from population size class assessment, presence/absence survey or scoping visit only where it was then scoped out or it was identified as requiring further survey.	High Speed Two (HS2) Ltd	
Reptiles - Extent of areas subject to reptiles survey & results of population size class assessment	Identifies population size classes of adder, common lizard, grass snake and slow worm based on a scale from high, medium, low and absent.	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	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Environment Agency	© Environment Agency copyright and/or database right 2017. All rights reserved.
Wintering and passage birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and	Field survey records of selected protected and/or notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds of Conservation Concern list relevant to assessment Other notable species relevant to assessment – see Volume 5 Appendices			
Wintering and passage birds - survey extent	Area where wintering and passage birds survey was conducted.	High Speed Two (HS2) Ltd	
Woodland (not verified by survey) Woodland (verified by survey)	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.

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High Speed Two Phase 2a (West Midlands-Crewe)
Background Information and Data
EC-07 - Reptiles



Map Series Information:
 This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

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

Map Number	EC-07-INDEX-CA1
Map Name	Index Map of: Reptiles
Community Area 1:	Fradley to Colton

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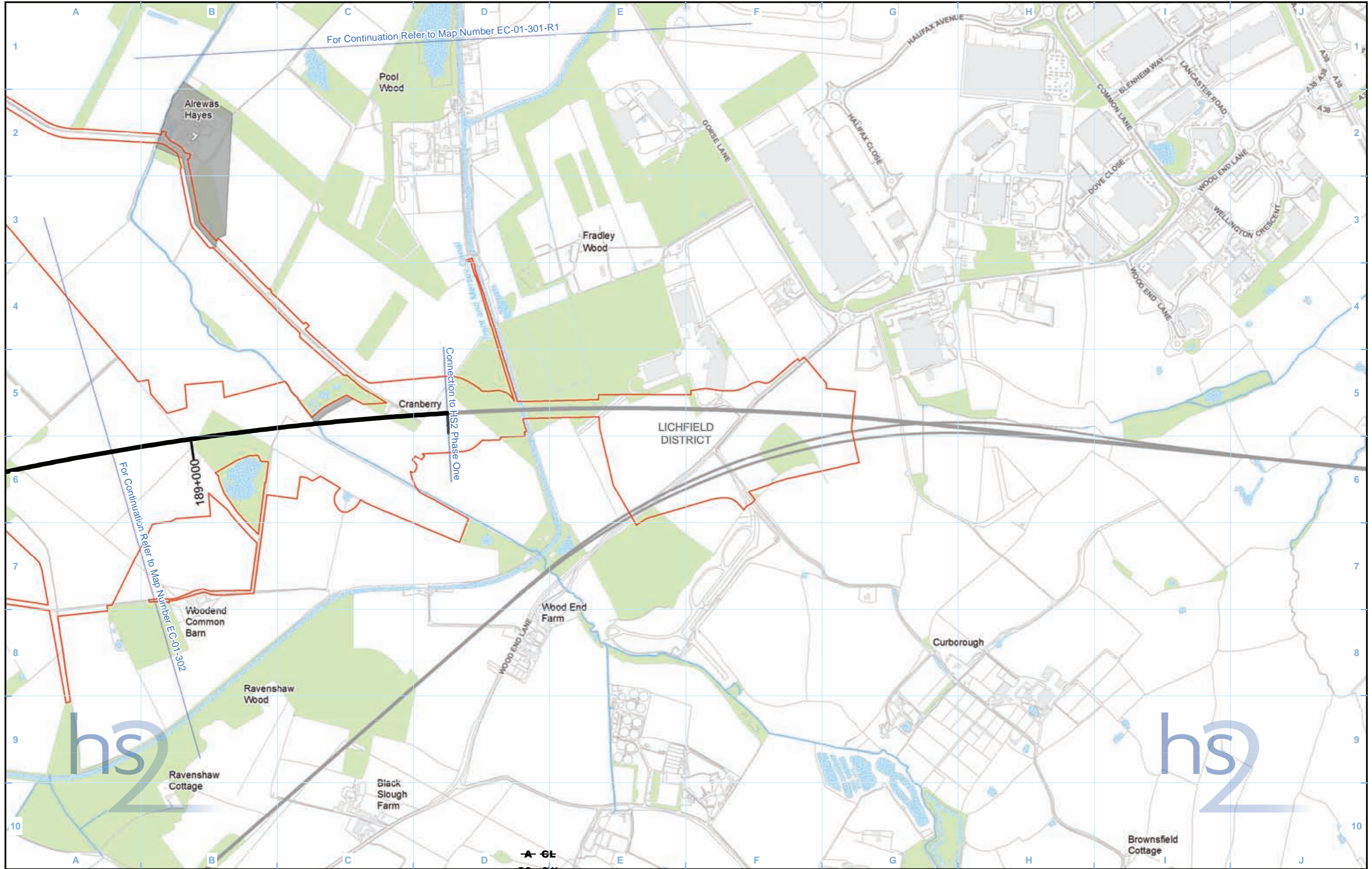
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Date: 14/06/17



Legend		Population size class assessment:			
	Route in tunnel		Population size class survey - visits completed	A Adder:	CL Common lizard:
	Route on surface		Reptiles assumed present as surveys not completed	A High	CL High
	Depot, station, headhouse or portal building		Presence/absence survey conducted - reptiles assumed absent	A Medium	CL Medium
	Land potentially required during construction		Scoping visit only - scoped out	A Low	CL Low
	Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Absent	CL Absent
	County boundary			A Absent	CL Absent
	District/Borough boundary			A Absent	CL Absent
	Watercourse			GS Grass snake:	SW Slow worm:
	Water body			GS High	SW High
	Woodland (not verified by survey)			GS Medium	SW Medium
				GS Low	SW Low
				GS Absent	SW Absent

Map Number	EC-07-301
Map Name	Reptiles
Community Area 1:	Fradley to Colton

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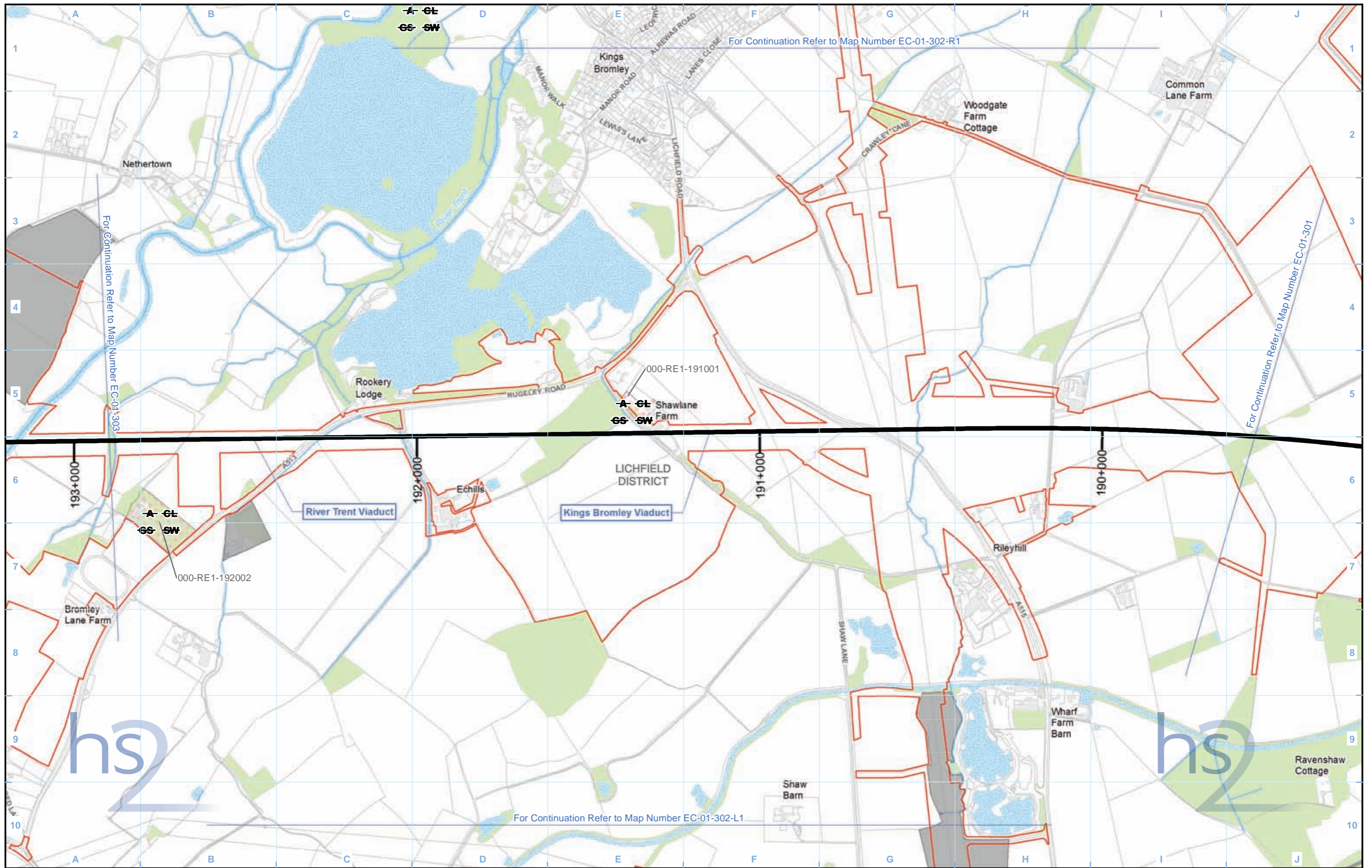
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A-GL Absent	GL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number	EC-07-302
Map Name	Reptiles
Community Area 1: Fradley to Colton	

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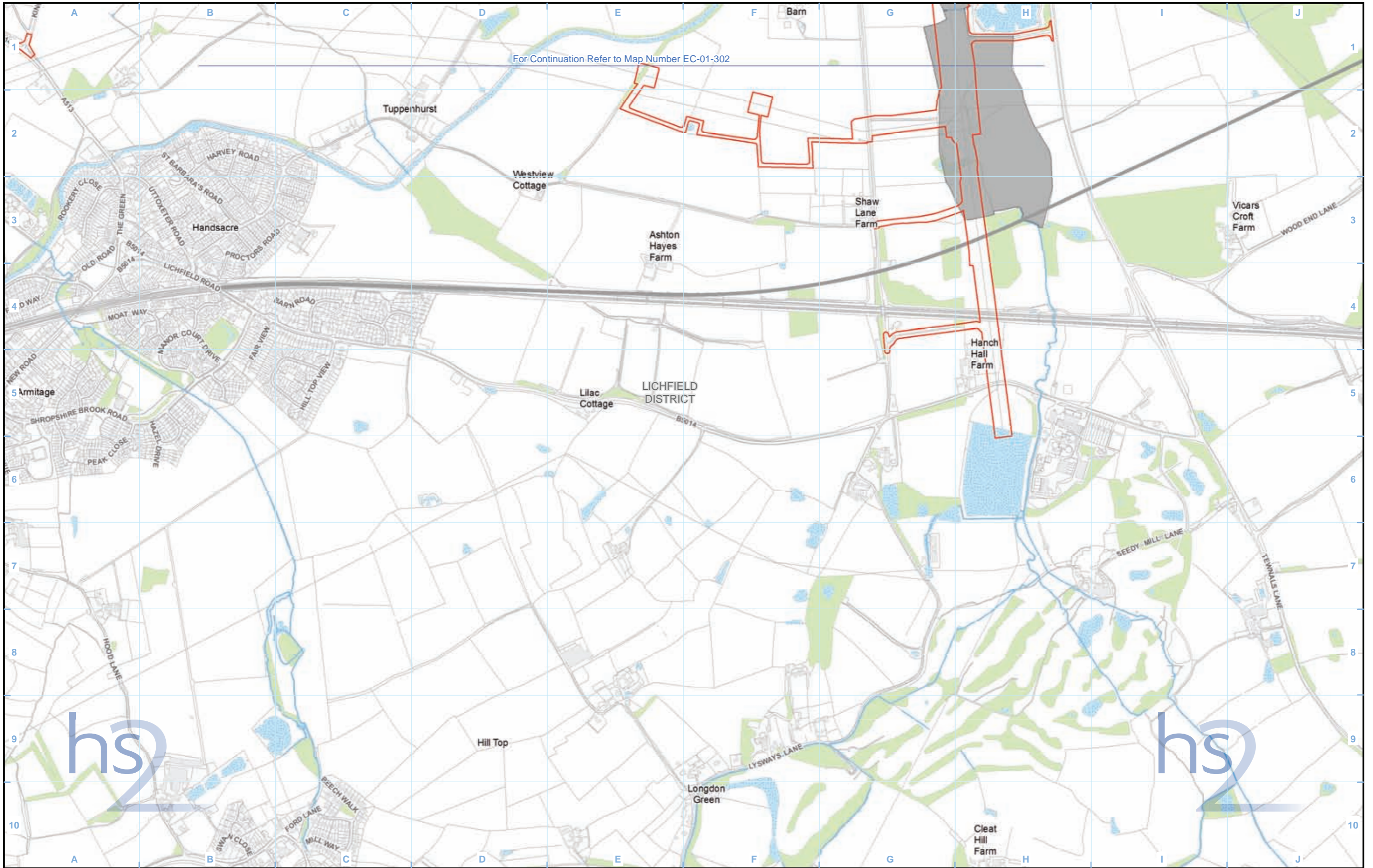
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0 100 200 300 400 Metres

Doc Number: C861-ARP-EV-MAP-000-077302-P04

Date: 14/06/17

For Continuation Refer to Map Number EC-01-302



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-302-L1

Map Name: Reptiles

Community Area 1: Fradley to Colton

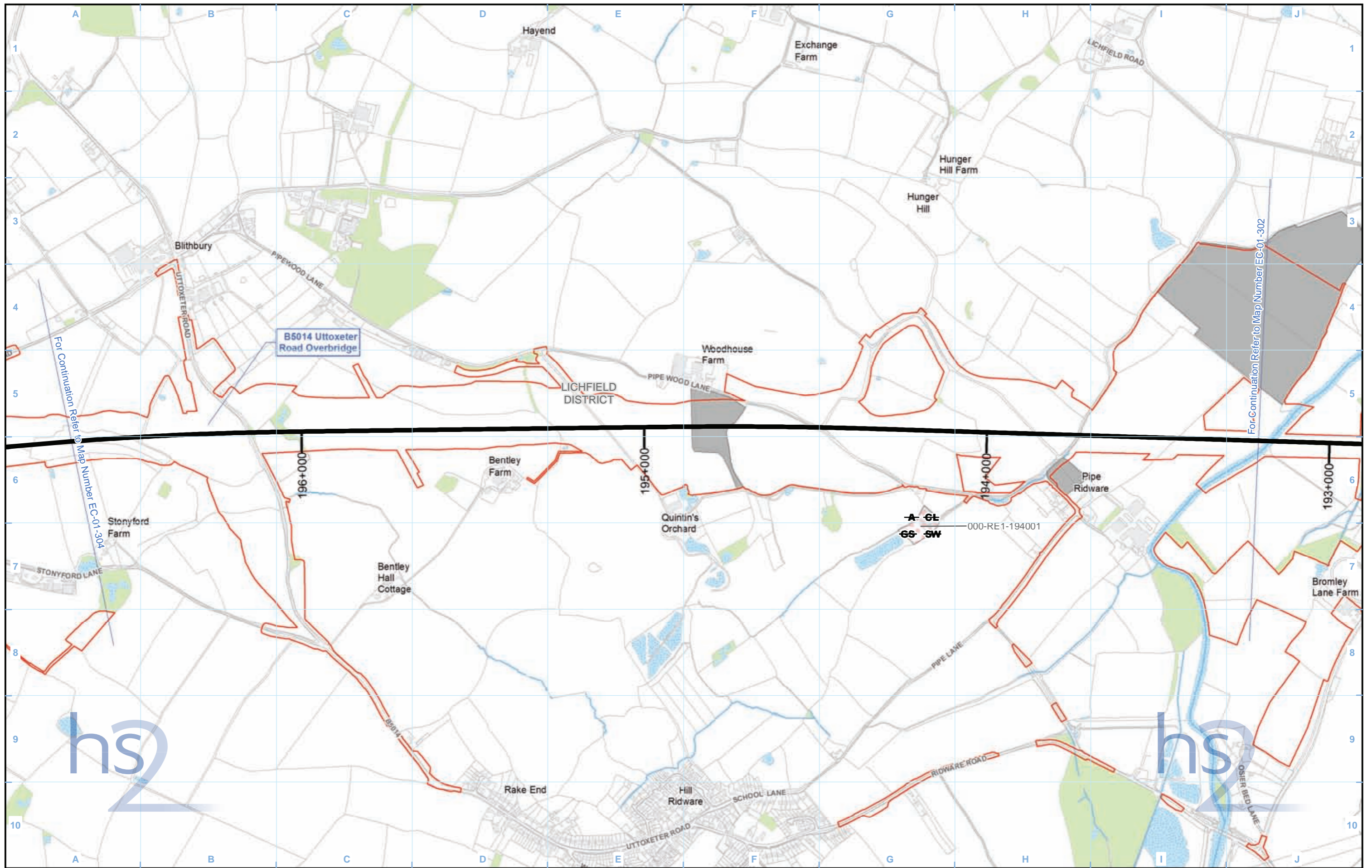
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Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted – reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted – habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-303

Map Name: Reptiles

Community Area 1: Fradley to Colton

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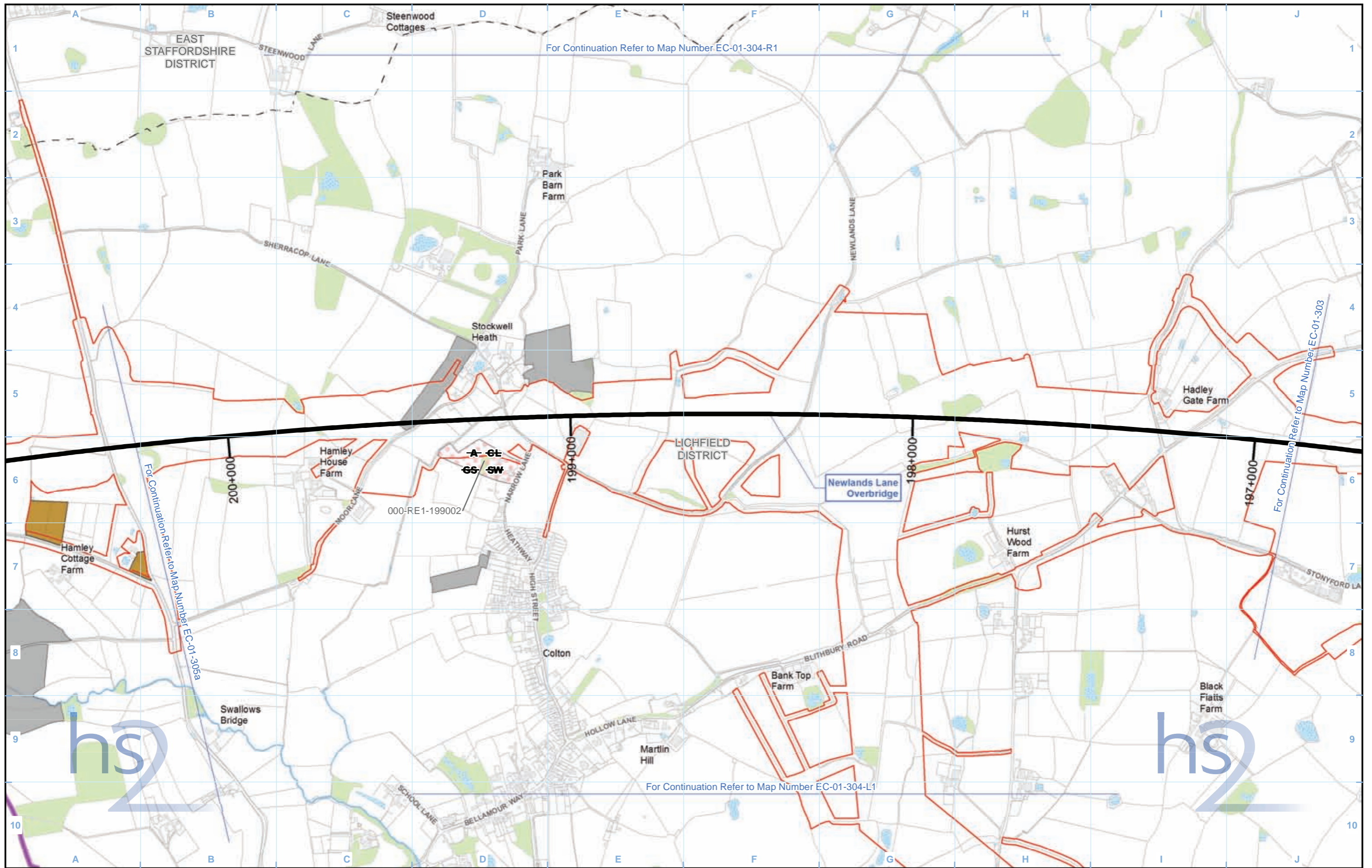
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Metres

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Date: 14/06/17



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For Continuation Refer to Map Number EC-01-303

For Continuation Refer to Map Number EC-01-305a

For Continuation Refer to Map Number EC-01-304-L1

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)

- Population size class survey - visits completed
- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number	EC-07-304
Map Name	Reptiles
Community Area 1:	Fradley to Colton

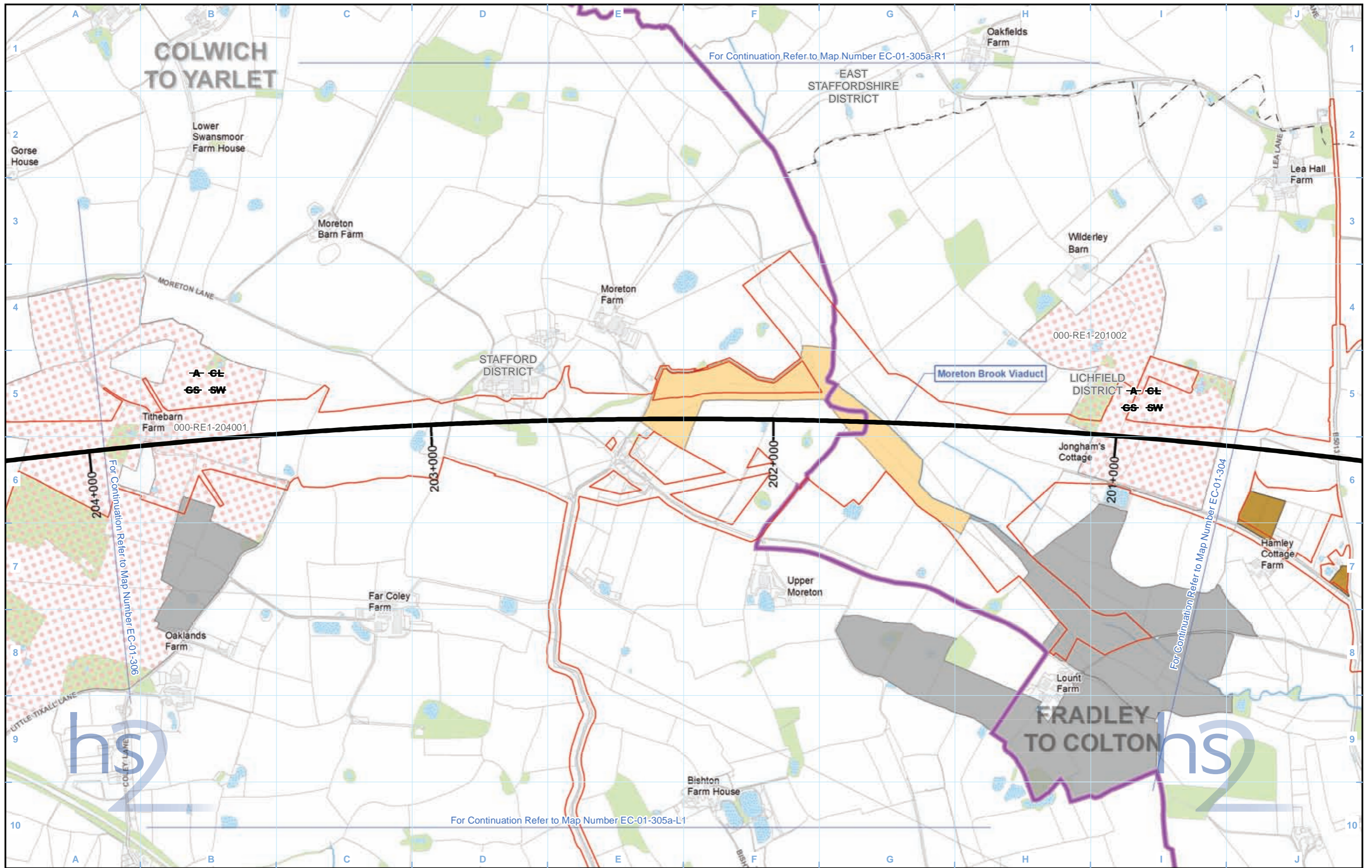
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Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-305a

Map Name: Reptiles

Community Area 1: Fradley to Colton

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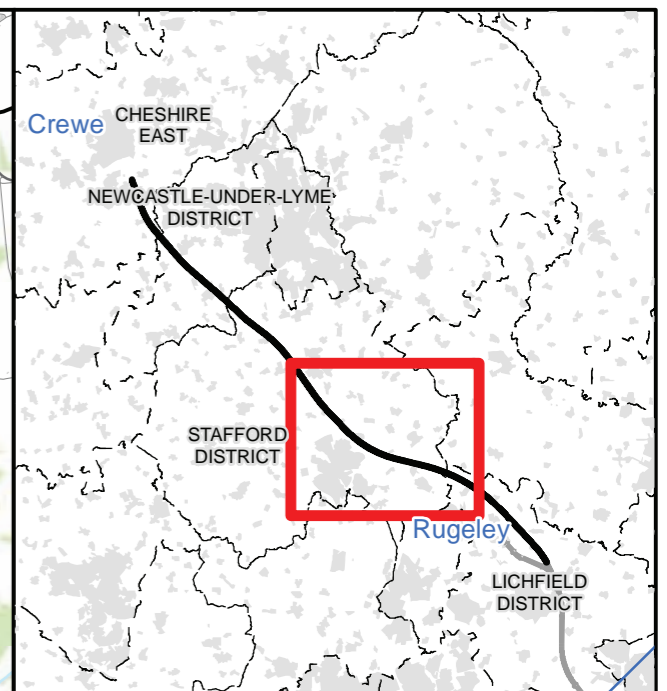
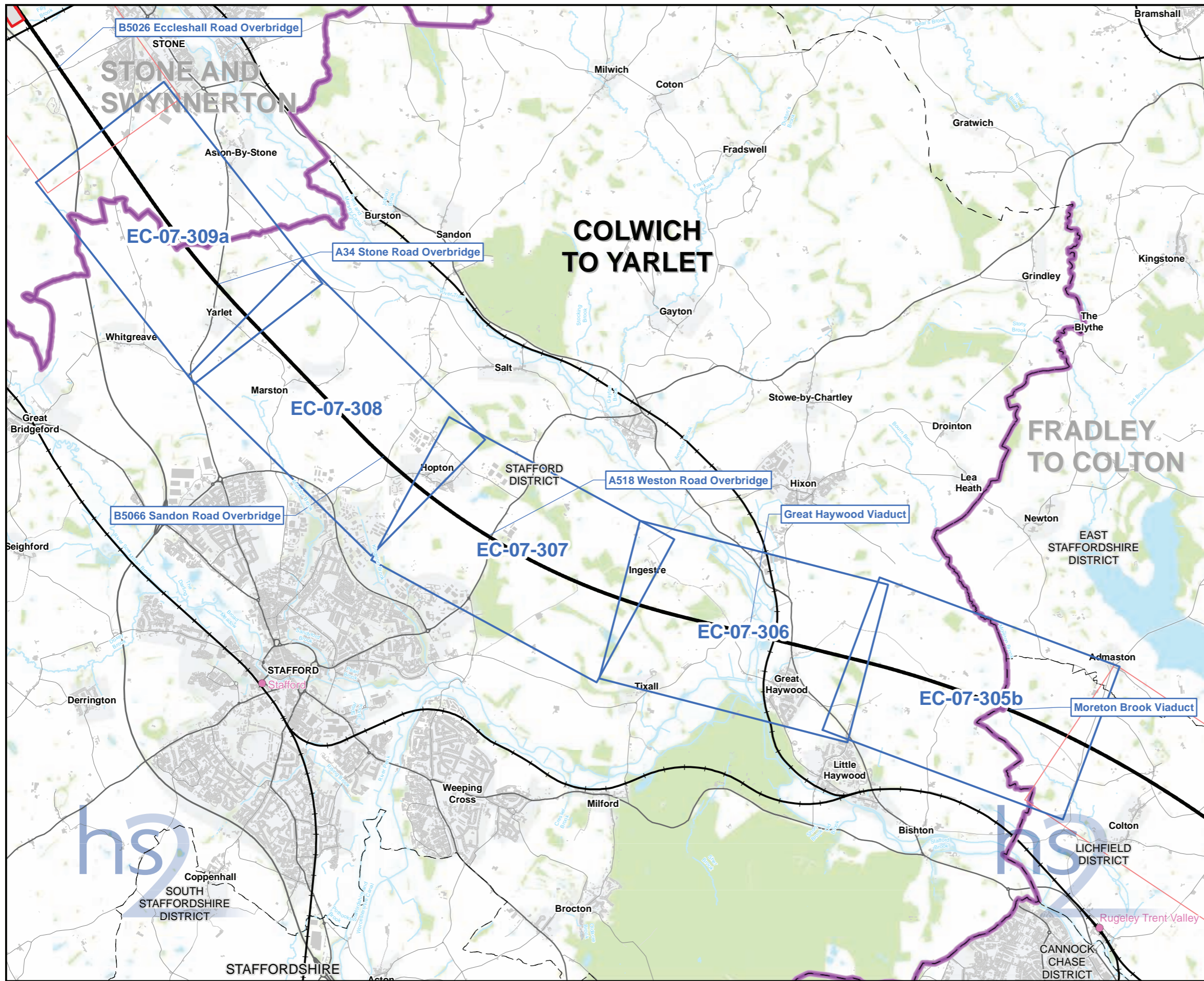
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Date: 14/06/17

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Map Series Information:
 This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

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

Map Number	EC-07-INDEX-CA2
Map Name	Index Map of: Reptiles
	Community Area 2: Colwich to Yarlet

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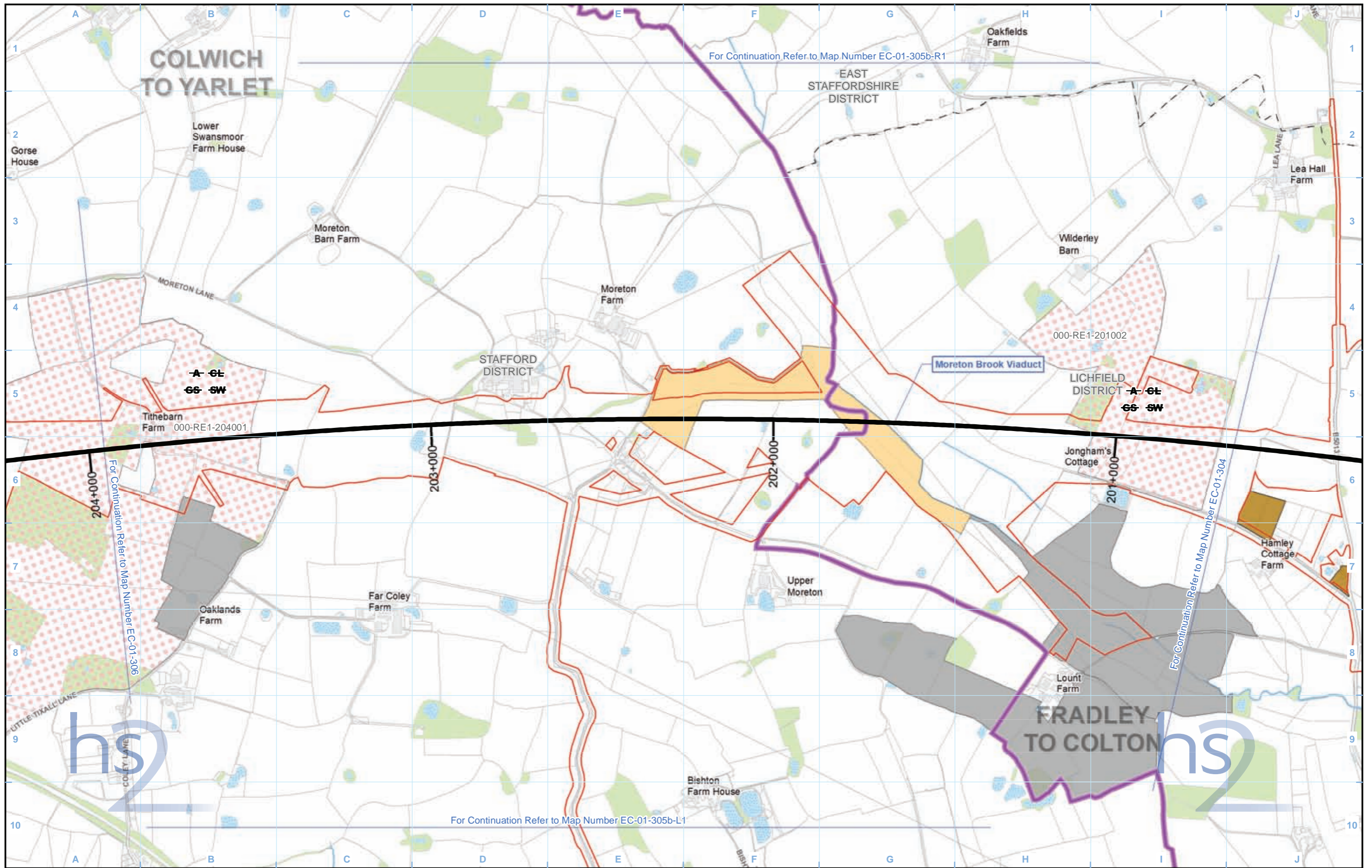
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0 600 1,200 1,800 2,400 Metres

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Doc Number: C861-ARP-EV-MAP-000-077002-P04 **Date: 14/06/17**



Legend		Population size class assessment:			
	Route in tunnel		Population size class survey - visits completed	A Adder: High	CL Common lizard: High
	Route on surface		Reptiles assumed present as surveys not completed	A Adder: Medium	CL Common lizard: Medium
	Depot, station, headhouse or portal building		Presence/absence survey conducted - reptiles assumed absent	A Adder: Low	CL Common lizard: Low
	Land potentially required during construction		Scoping visit only - scoped out	A Adder: Absent	CL Common lizard: Absent
	Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	GS Grass snake: High	SW Slow worm: High
	County boundary			GS Grass snake: Medium	SW Slow worm: Medium
	District/Borough boundary			GS Grass snake: Low	SW Slow worm: Low
	Watercourse			GS Grass snake: Absent	SW Slow worm: Absent
	Water body				
	Woodland (not verified by survey)				

Map Number	EC-07-305b
Map Name	Reptiles
Community Area 2:	Colwich to Yarlet

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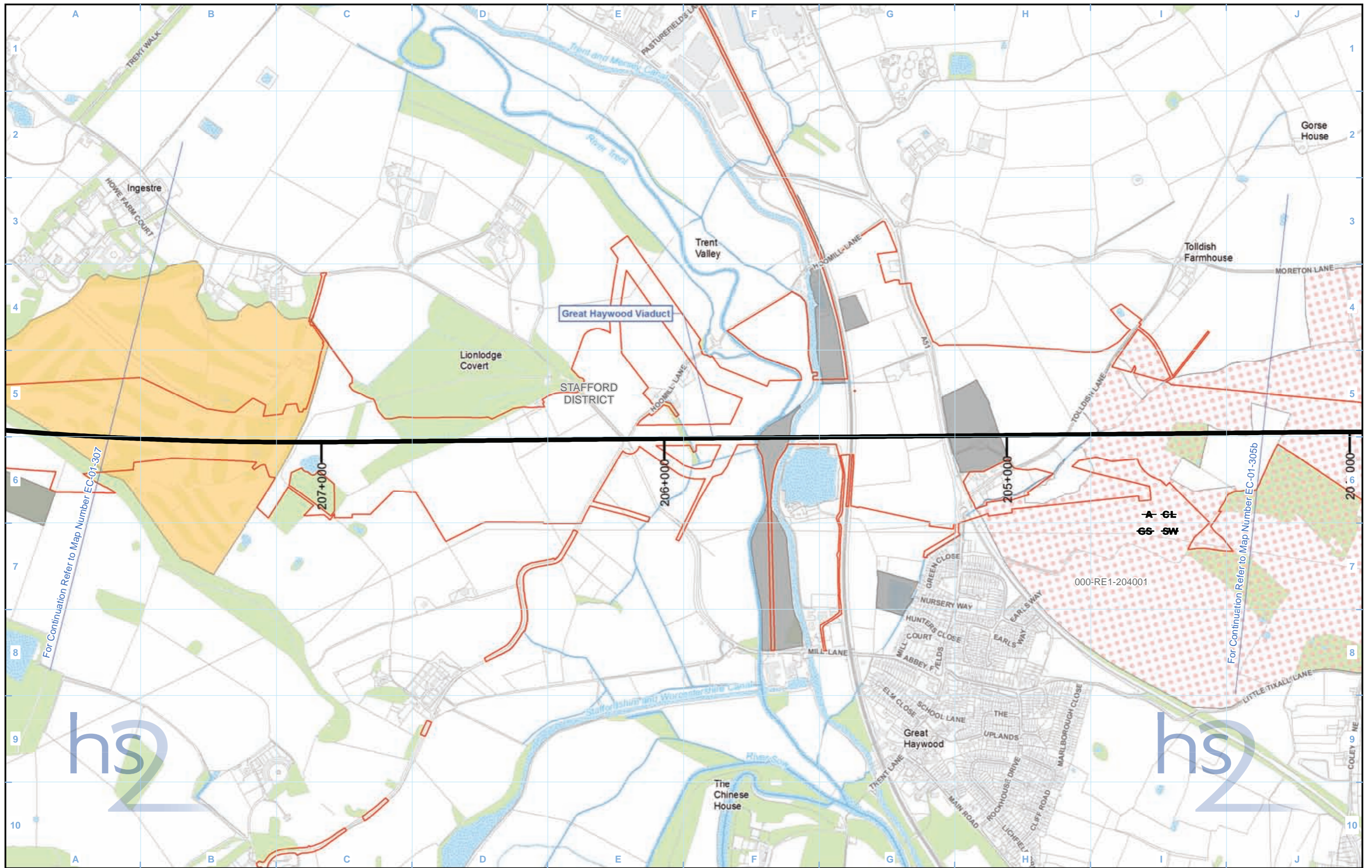
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-306

Map Name: Reptiles

Community Area 2: Colwich to Yarlet

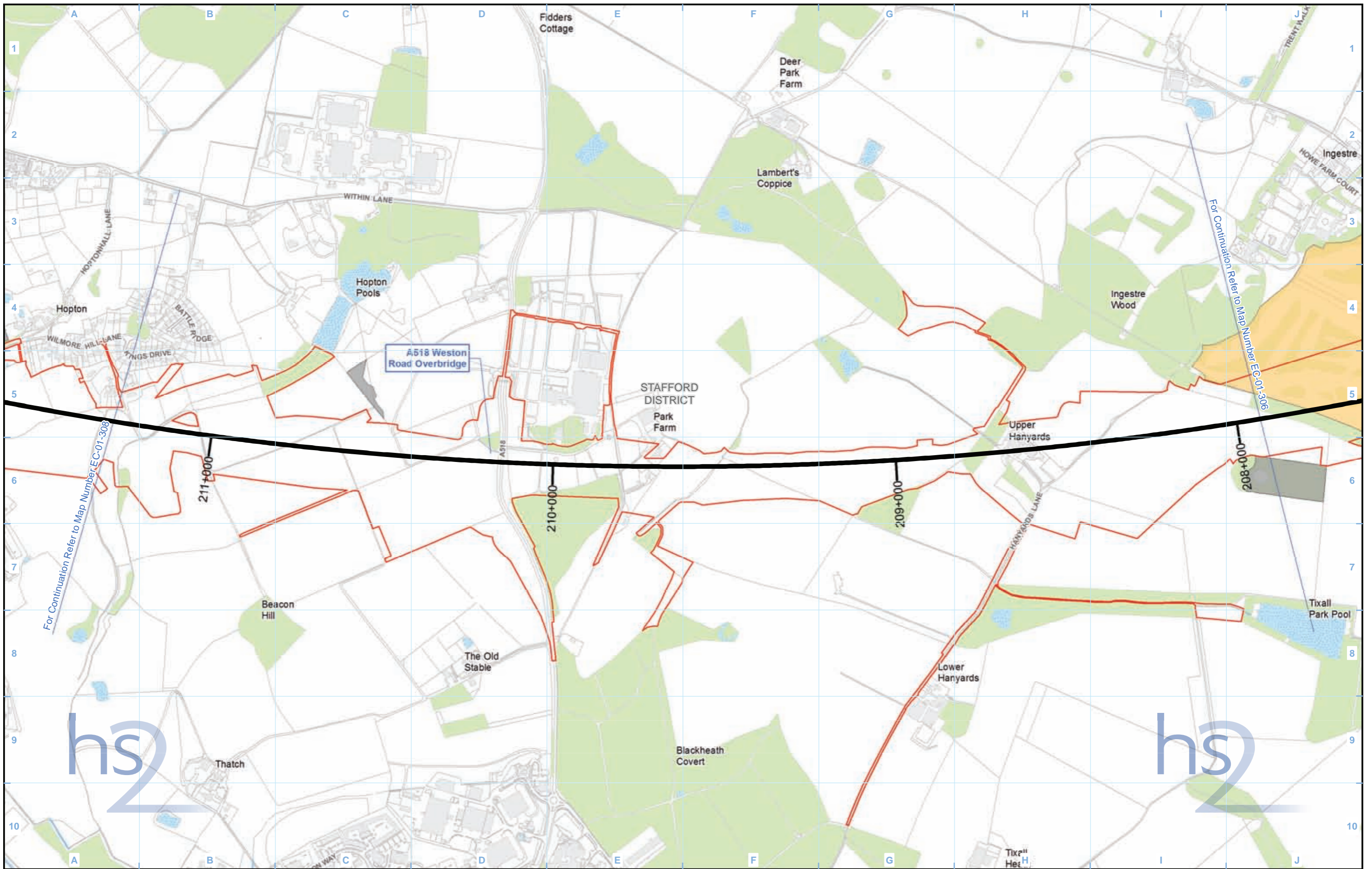
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number	EC-07-307
Map Name	Reptiles
	Community Area 2: Colwich to Yarlet

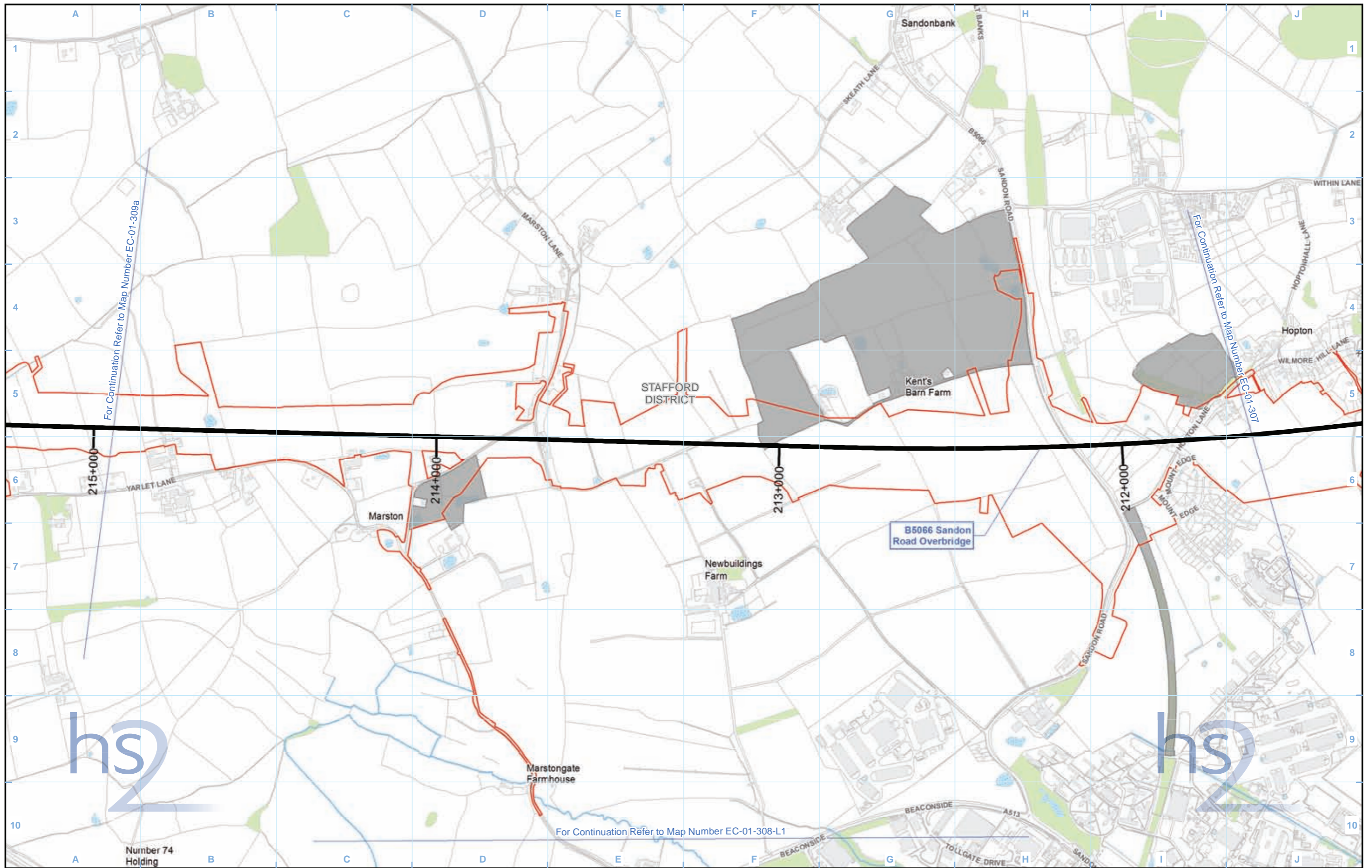
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Doc Number: C861-ARP-EV-MAP-000-077307-P04 Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: **EC-07-308**

Map Name: **Reptiles**

Community Area 2:
Colwich to Yarlet

hs2

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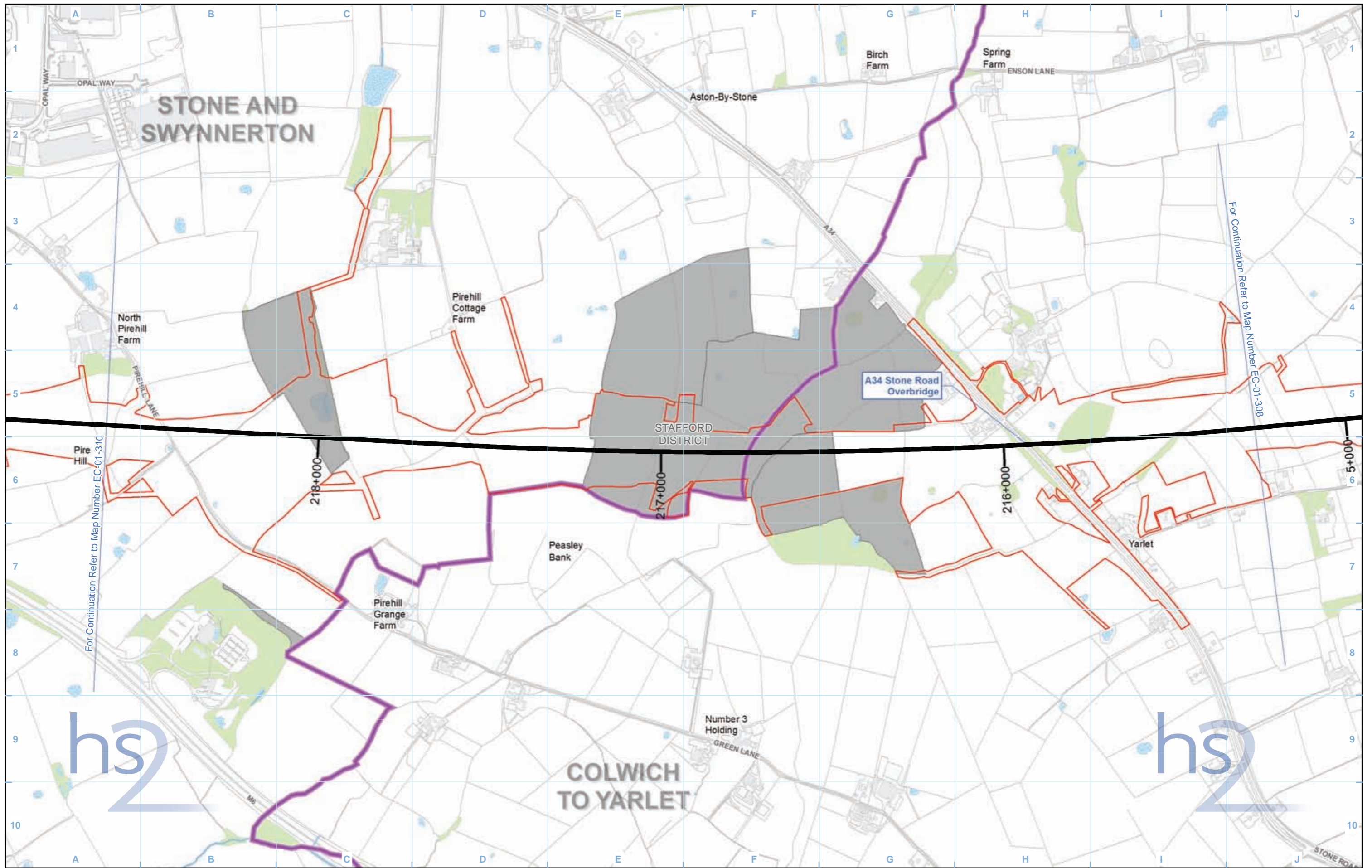
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Doc Number: C861-ARP-EV-MAP-000-077308-P04

Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-309a

Map Name: Reptiles

Community Area 2: Colwich to Yarlet

hs2

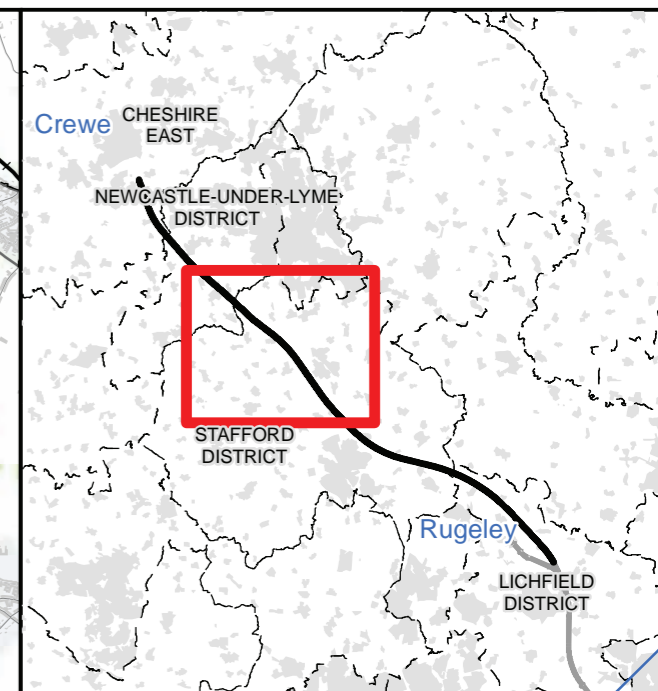
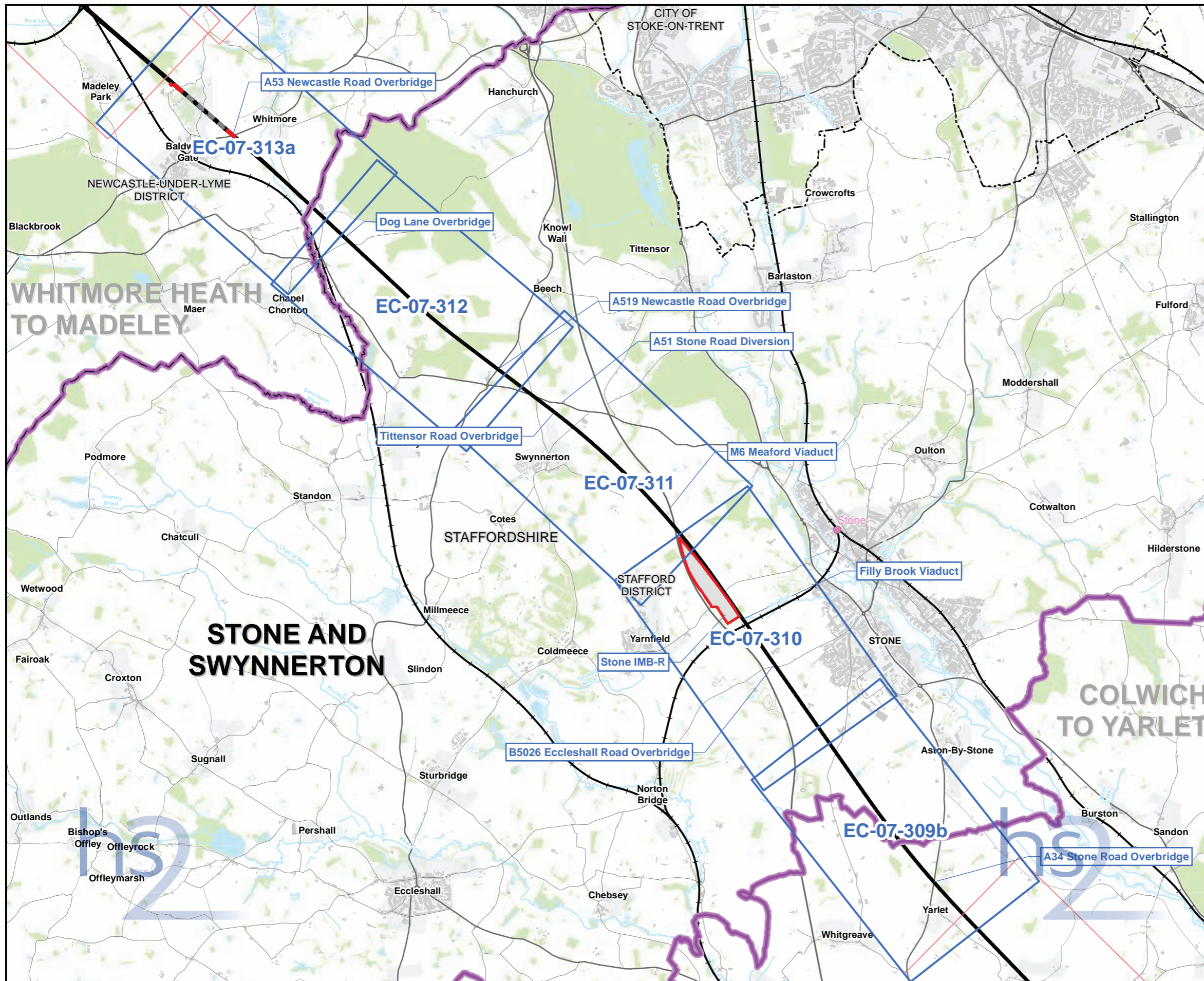
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Map Series Information:
 This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

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

Map Number	EC-07-INDEX-CA3
Map Name	Index Map of: Reptiles
Community Area 3: Stone and Swynnerton	

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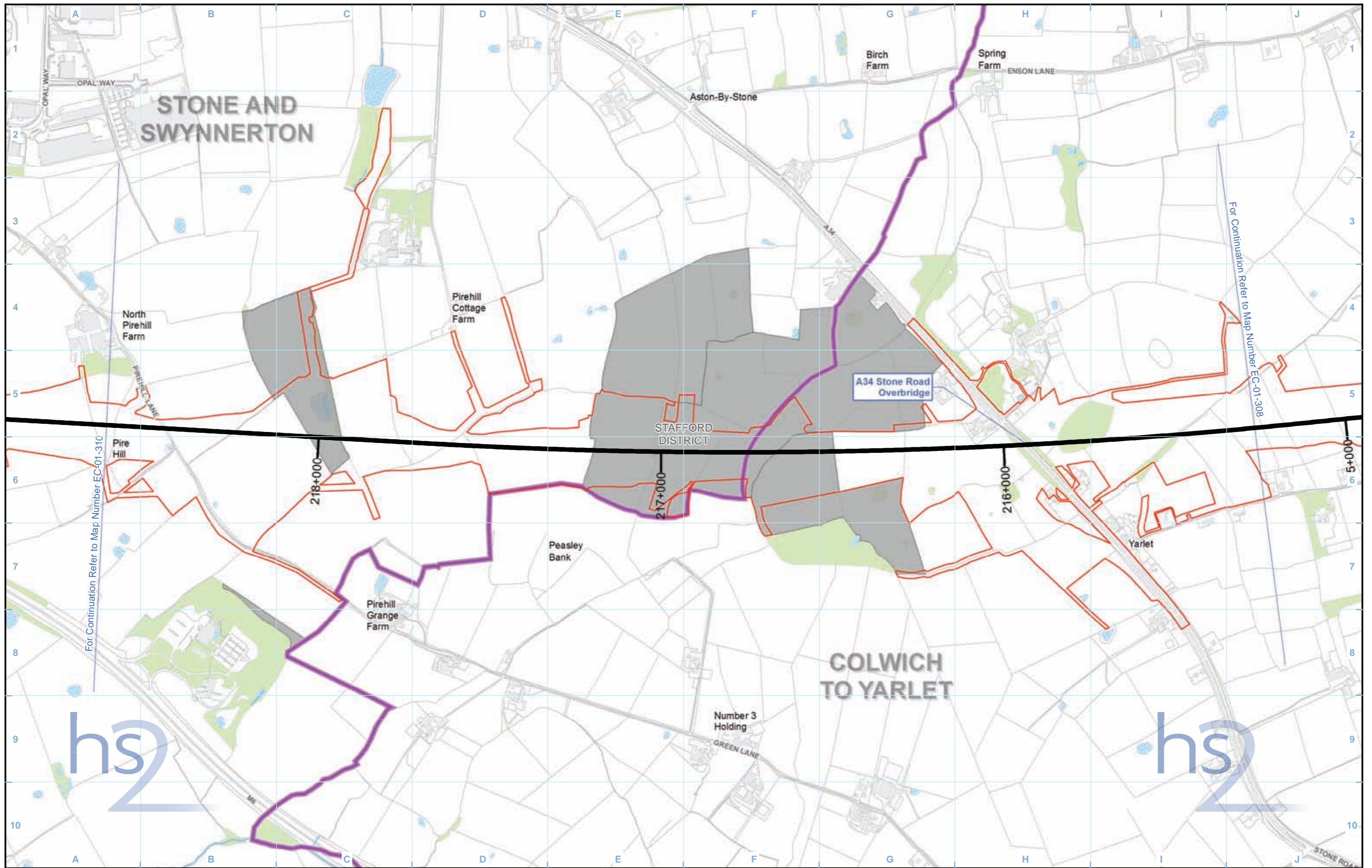
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Doc Number: C861-ARP-EV-Map-000-077003-P04

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



For Continuation Refer to Map Number EC-01-310

For Continuation Refer to Map Number EC-01-308

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (not verified by survey)

Population size class survey - visits completed			
	Population size class survey - visits completed		
	Reptiles assumed present as surveys not completed		
	Presence/absence survey conducted - reptiles assumed absent		
	Scoping visit only - scoped out		
	Scoping visit conducted - habitat suitable but no further survey conducted		

Population size class assessment:			
Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number	EC-07-309b
Map Name	Reptiles
Community Area 3: Stone and Swynnerton	

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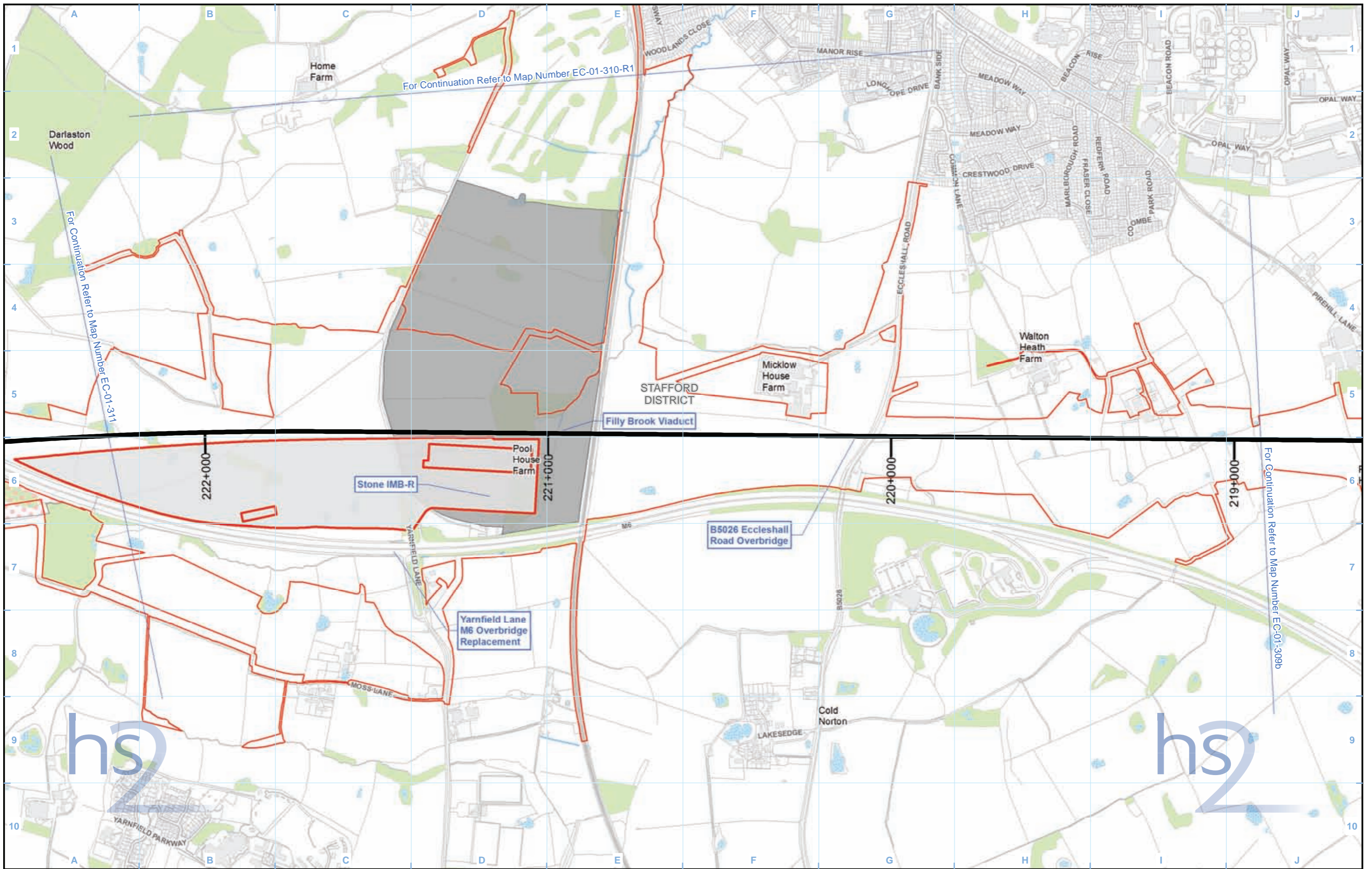
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Scale at A3: 1:10,000

Metres

Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: **EC-07-310**

Map Name: **Reptiles**

Community Area 3:
Stone and Swynnerton

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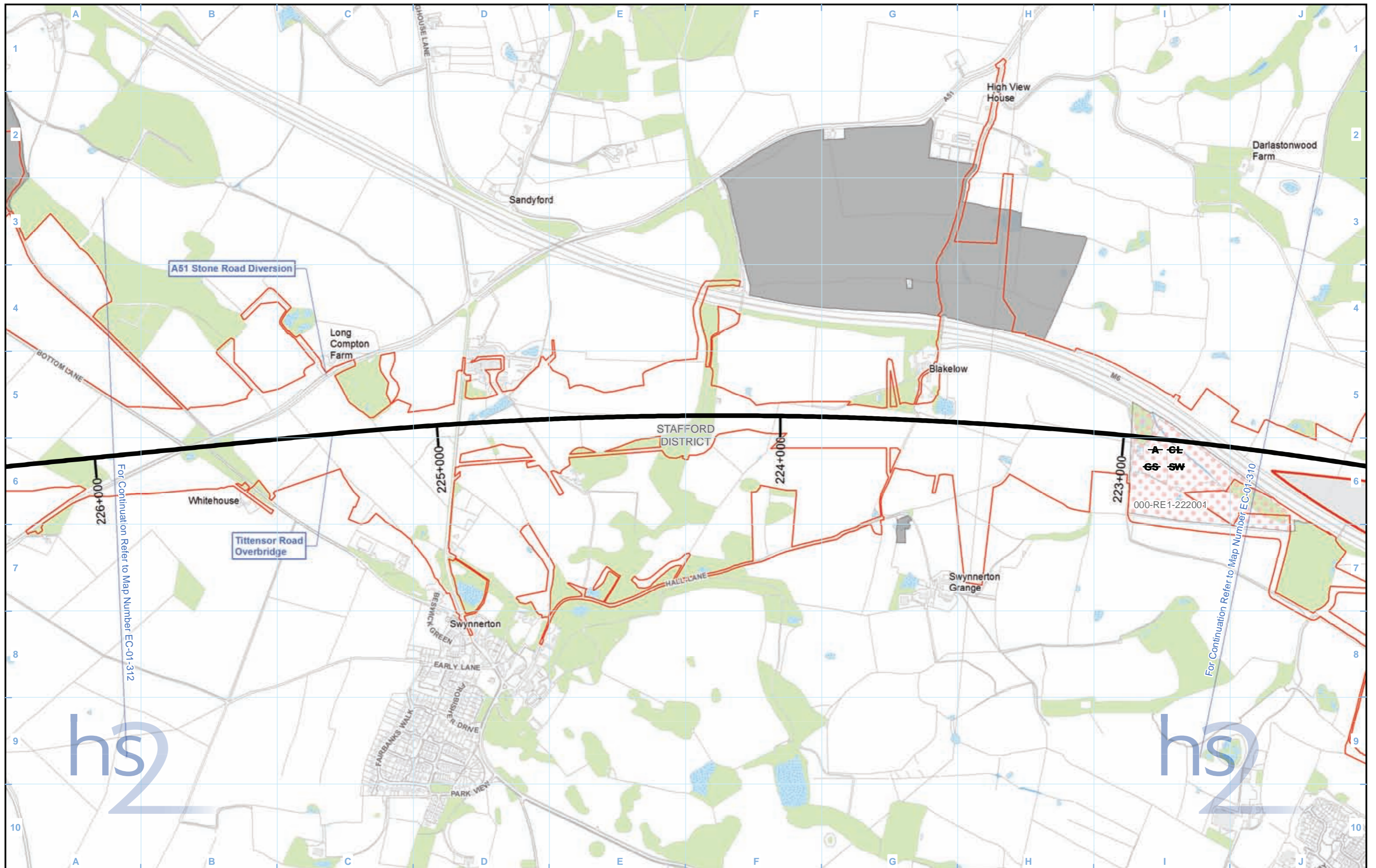
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Doc Number: C861-ARP-EV-MAP-000-077310-P04

Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted – reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted – habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number	EC-07-311
Map Name	Reptiles
	Community Area 3: Stone and Swynnerton

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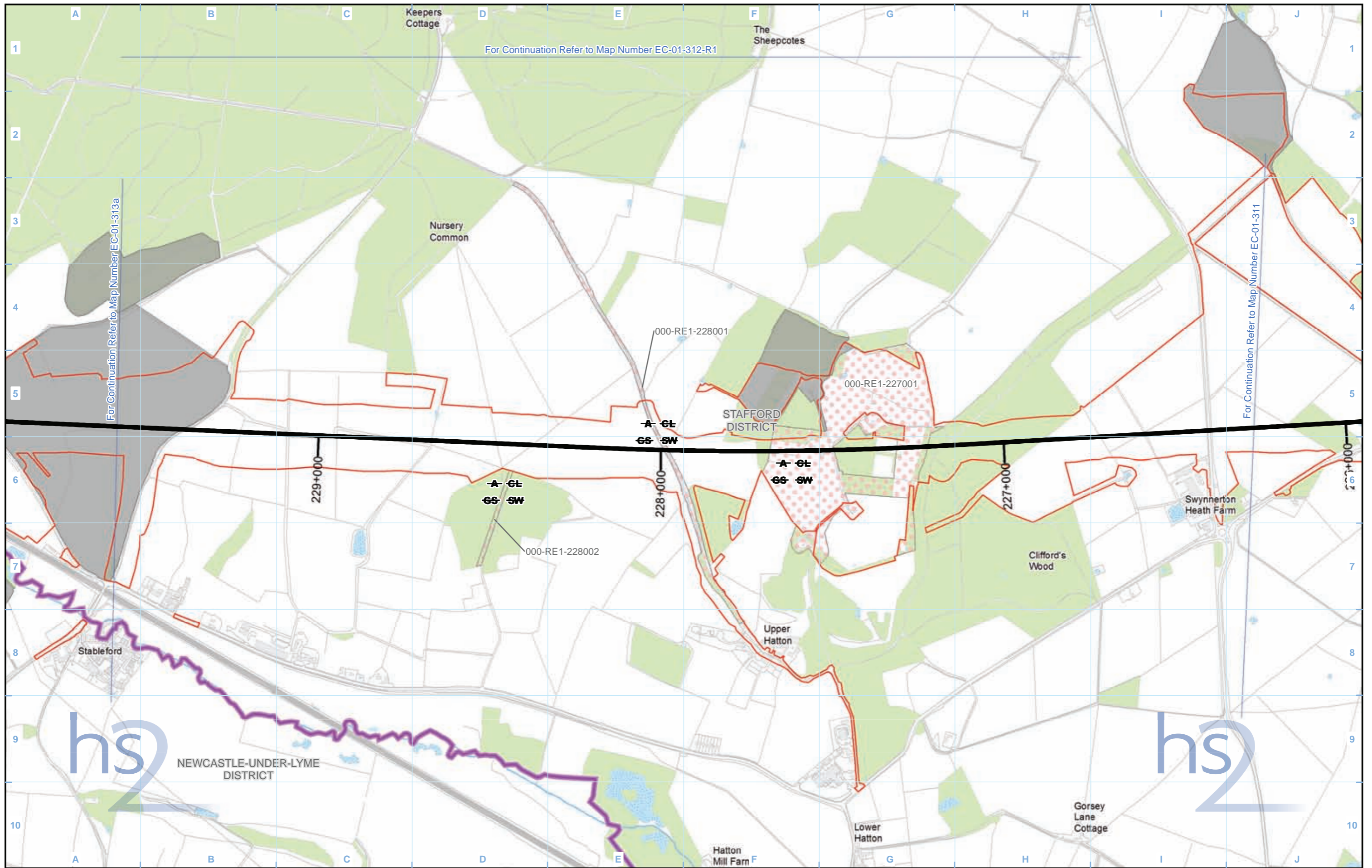
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Metres

Doc Number: C861-ARP-EV-MAP-000-077311-P04 Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	GL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-312

Map Name: Reptiles

Community Area 3:
Stone and Swynnerton

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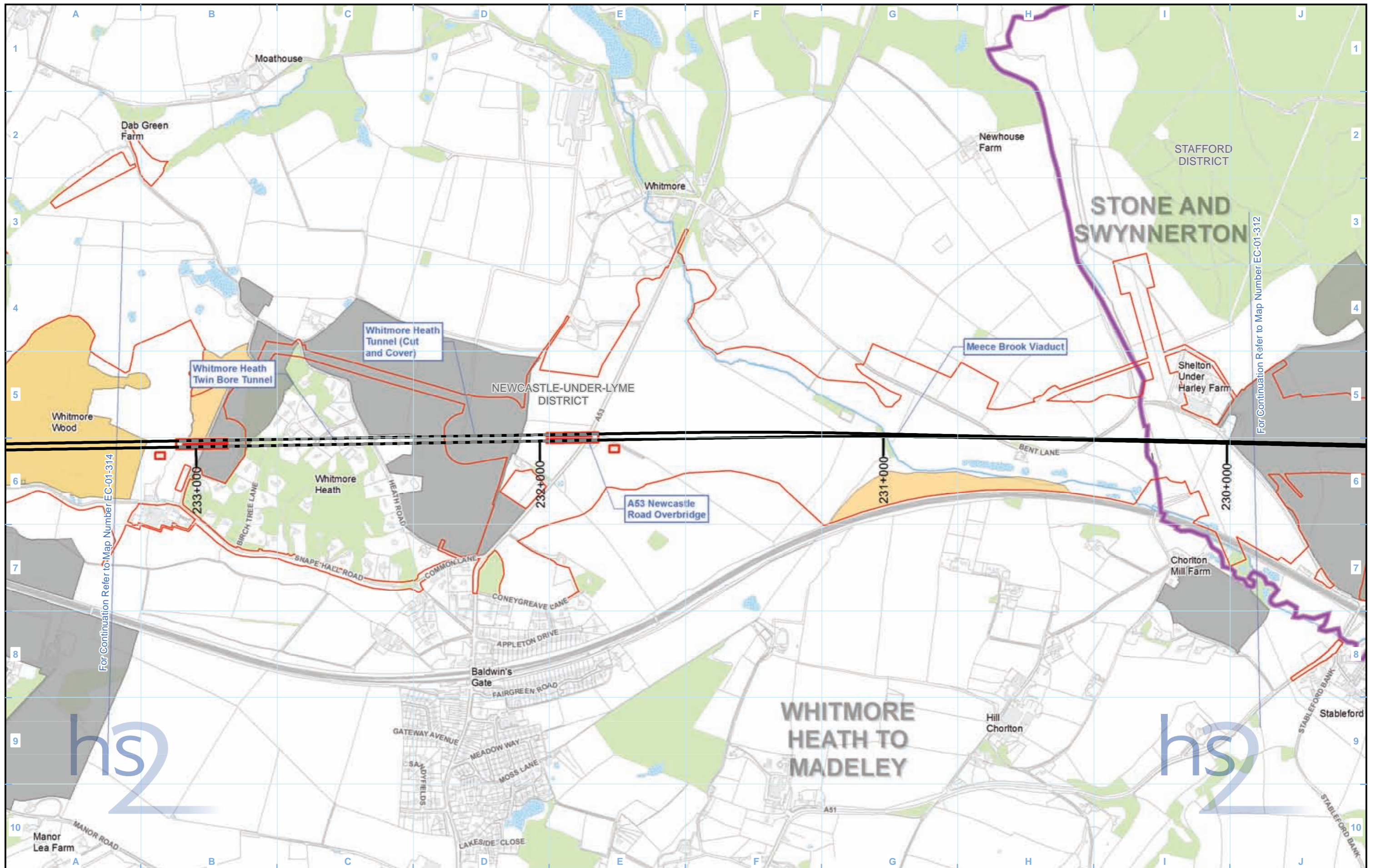
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Doc Number: C861-ARP-EV-MAP-000-077312-P04

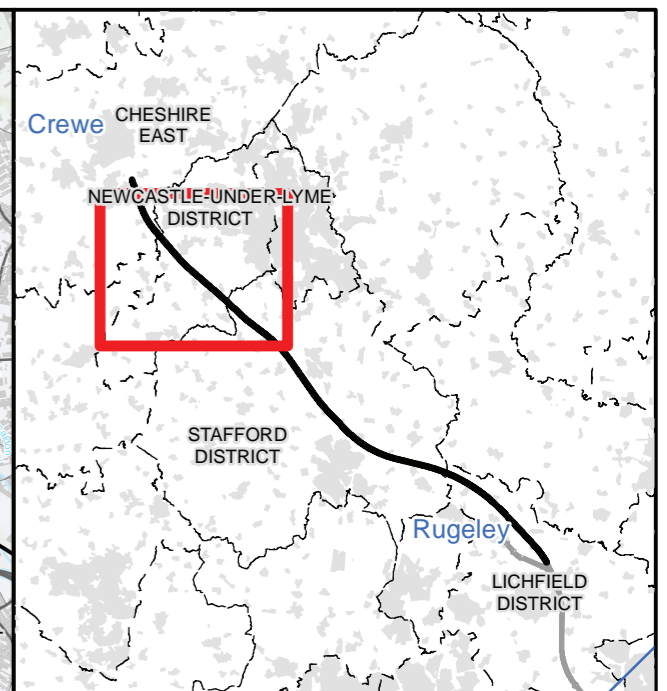
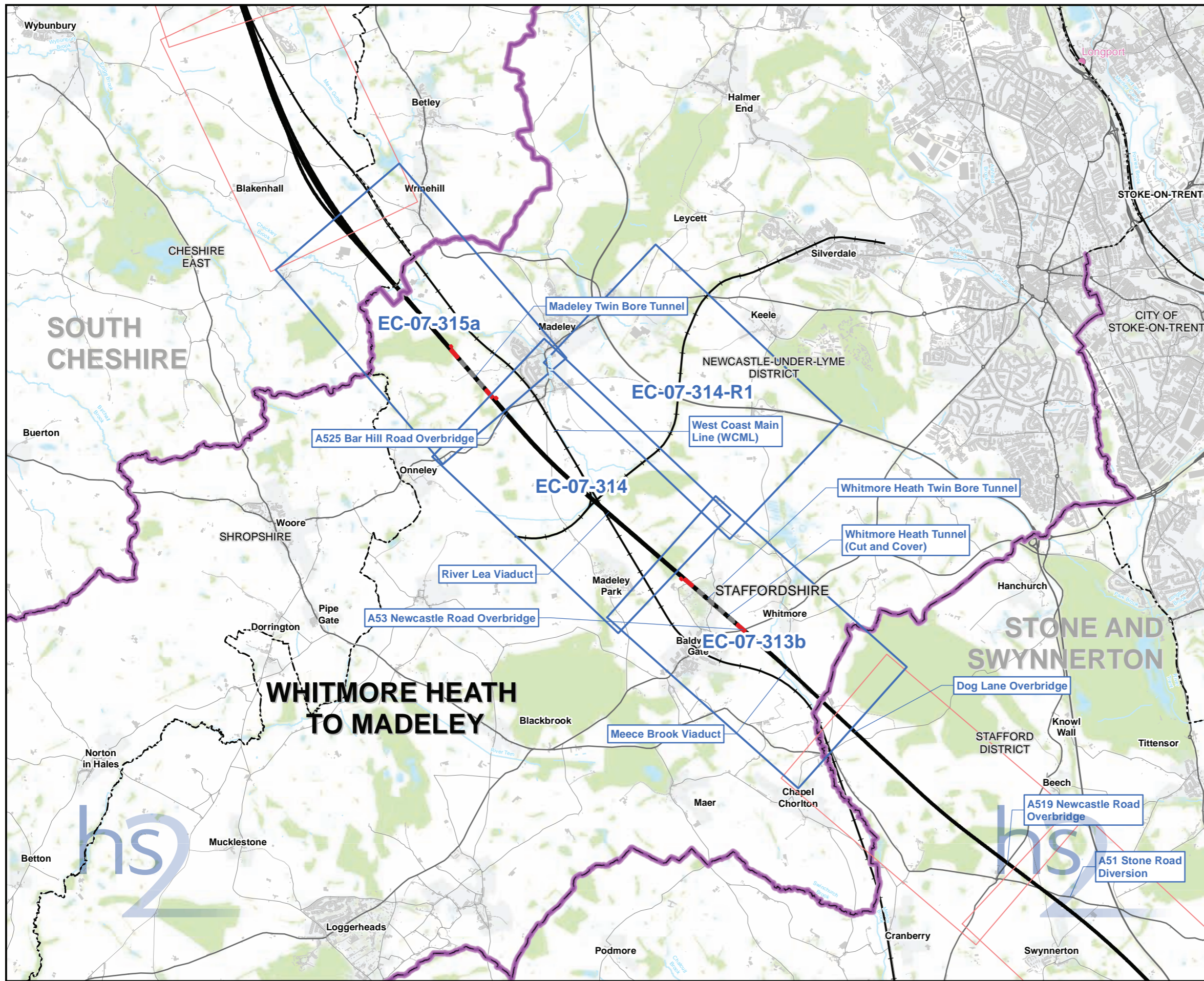
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For Continuation Refer to Map Number EC-01-314

For Continuation Refer to Map Number EC-01-312

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common lizard: Grass snake: Slow worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-313a				Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.			
Map Name Reptiles		Scale at A3: 1:10,000 					
Community Area 3: Stone and Swynnerton		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-077313-P04 Date: 14/06/17			



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

Map Number	EC-07-INDEX-CA4
Map Name	Index Map of: Reptiles
Community Area 4: Whitmore Heath to Madeley	

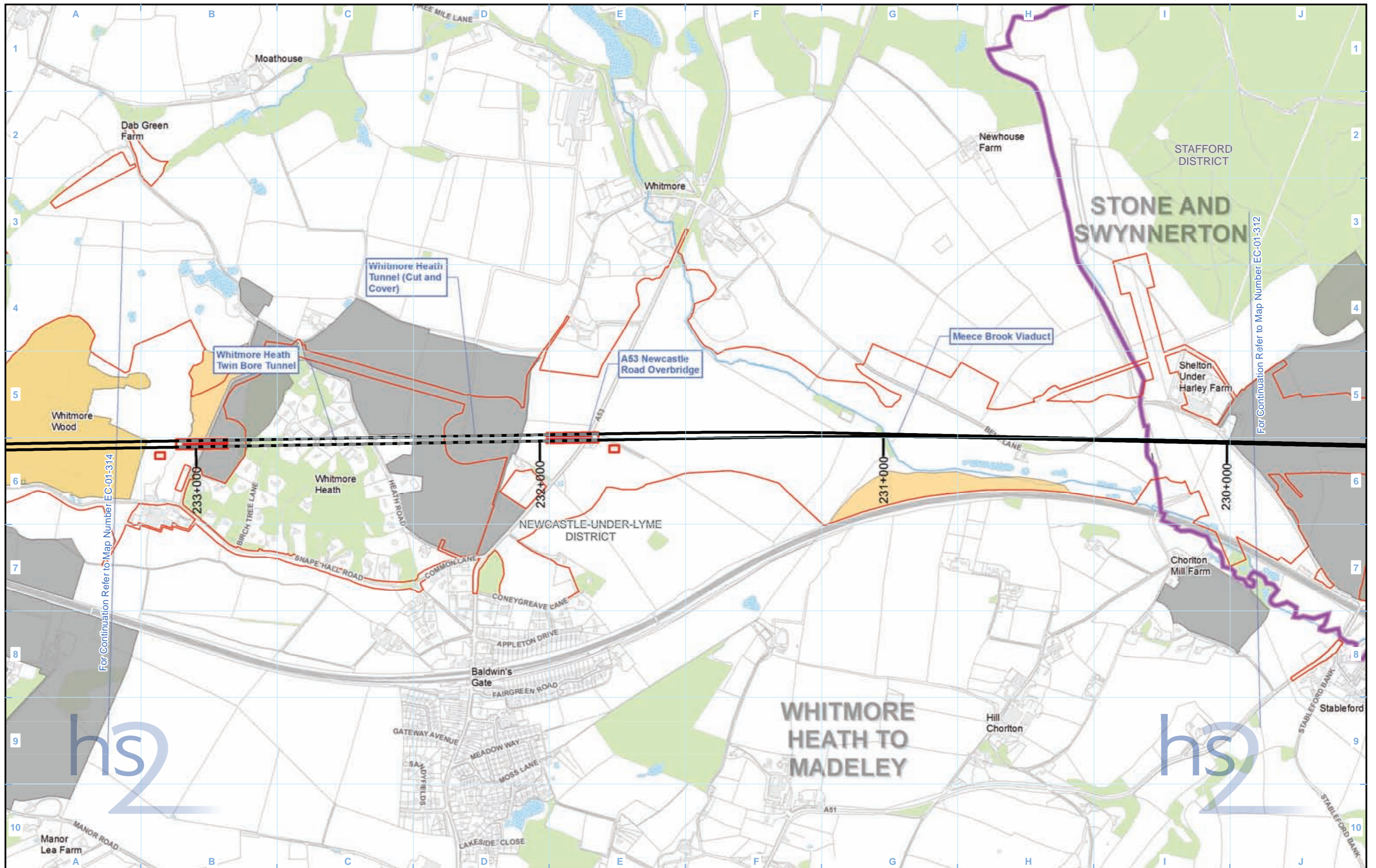
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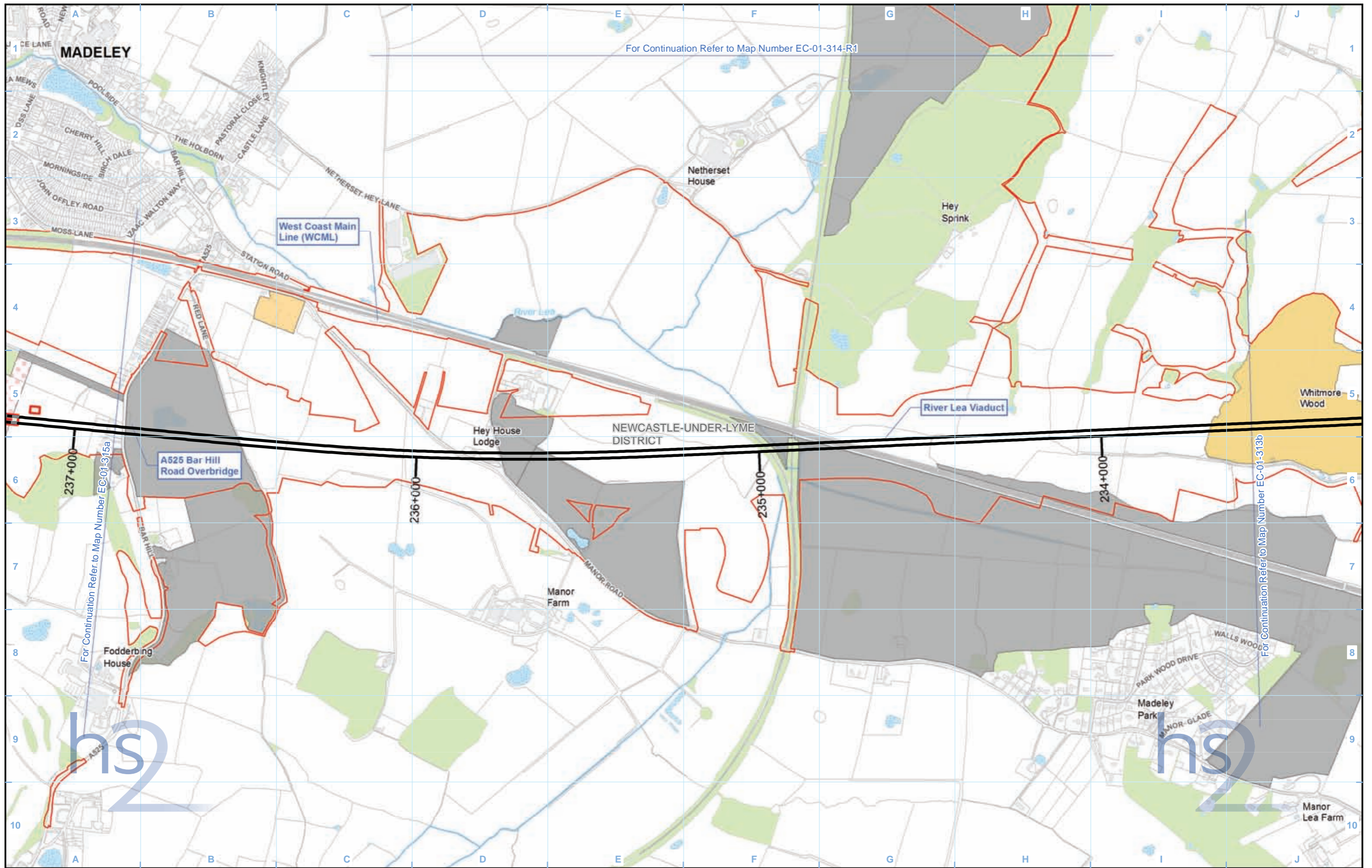
Doc Number: C861-ARP-EV-MAP-000-077004-P03 **Date: 14/06/17**



For Continuation Refer to Map Number EC-01-312

For Continuation Refer to Map Number EC-01-314

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted – reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted – habitat suitable but no further survey conducted		Population size class assessment: Adder: Common lizard: Grass snake: Slow worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent			
Map Number EC-07-313b				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.					
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Community Area 4: Whitmore Heath to Madeley		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-077413-P04 Date: 14/06/17					

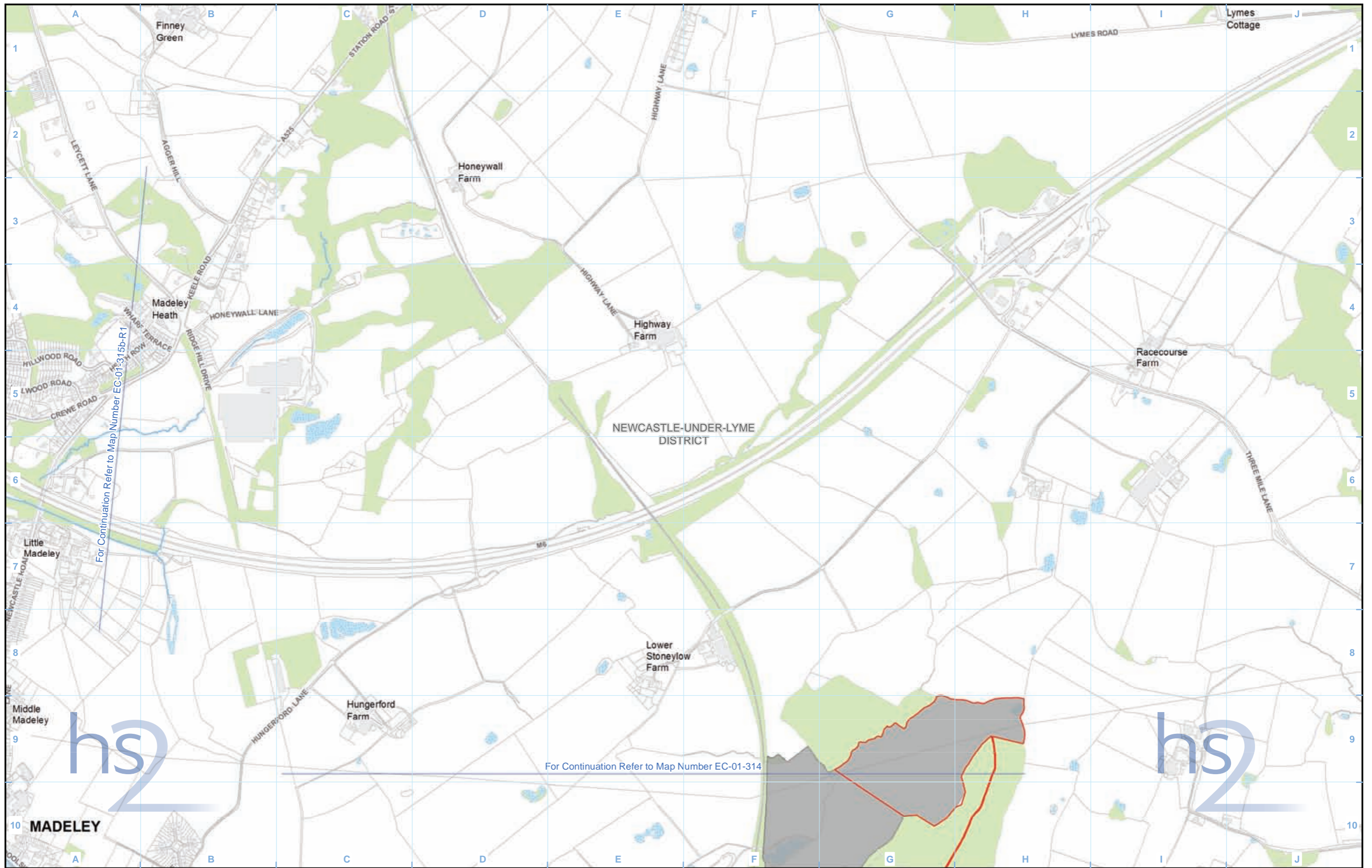


For Continuation Refer to Map Number EC-01-314-R1

For Continuation Refer to Map Number EC-01-315a

For Continuation Refer to Map Number EC-01-313b

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland (not verified by survey)		Population size class survey - visits completed Reptiles assumed present as surveys not completed Presence/absence survey conducted - reptiles assumed absent Scoping visit only - scoped out Scoping visit conducted - habitat suitable but no further survey conducted		Population size class assessment: Adder: Common lizard: Grass snake: Slow worm: A High CL High GS High SW High A Medium CL Medium GS Medium SW Medium A Low CL Low GS Low SW Low A Absent CL Absent GS Absent SW Absent				Map Number EC-07-314	 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. Scale at A3: 1:10,000 © Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190. Doc Number: C861-ARP-EV-MAP-000-077314-P04 Date: 14/06/17
				Map Name Reptiles					
				Community Area 4: Whitmore Heath to Madeley					



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-314-R1**

Map Name: **Reptiles**

Community Area 4:
Whitmore Heath to Madeley

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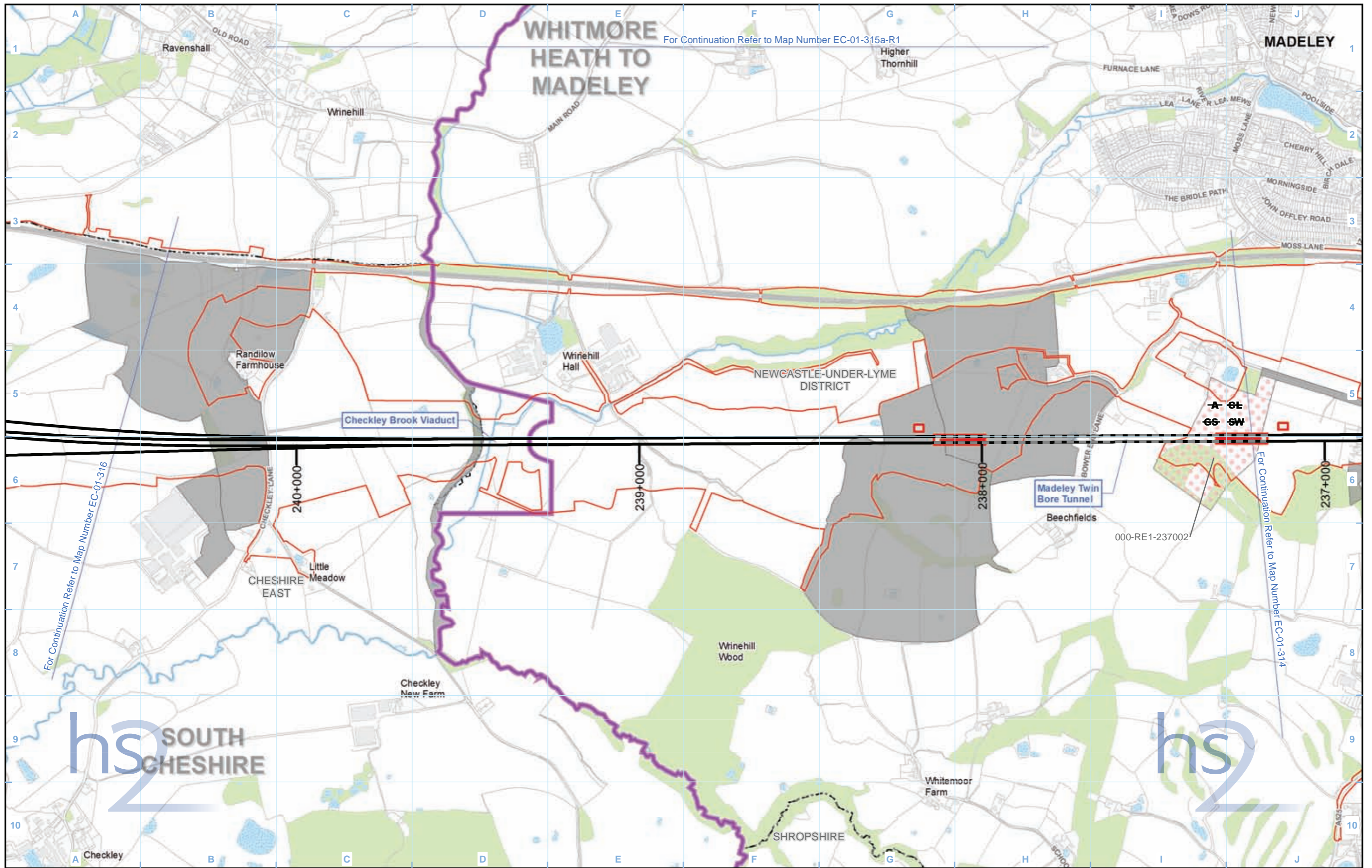
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Doc Number: C861-ARP-EV-MAP-000-077414-P04

Date: 14/06/17



For Continuation Refer to Map Number EC-01-315a-R1

For Continuation Refer to Map Number EC-01-316

For Continuation Refer to Map Number EC-01-314

Legend		Population size class survey - visits completed		Population size class assessment:			
	Route in tunnel		Population size class survey - visits completed	Adder:	Common lizard:	Grass snake:	Slow worm:
	Route on surface		Reptiles assumed present as surveys not completed	A High	CL High	GS High	SW High
	Depot, station, headhouse or portal building		Presence/absence survey conducted – reptiles assumed absent	A Medium	CL Medium	GS Medium	SW Medium
	Land potentially required during construction		Scoping visit only - scoped out	A Low	CL Low	GS Low	SW Low
	Community area boundary		Scoping visit conducted – habitat suitable but no further survey conducted	A Absent	CL Absent	GS Absent	SW Absent
	County boundary						
	District/Borough boundary						
	Watercourse						
	Water body						
	Woodland (not verified by survey)						

Map Number	EC-07-315a
Map Name	Reptiles
Community Area 4: Whitmore Heath to Madeley	

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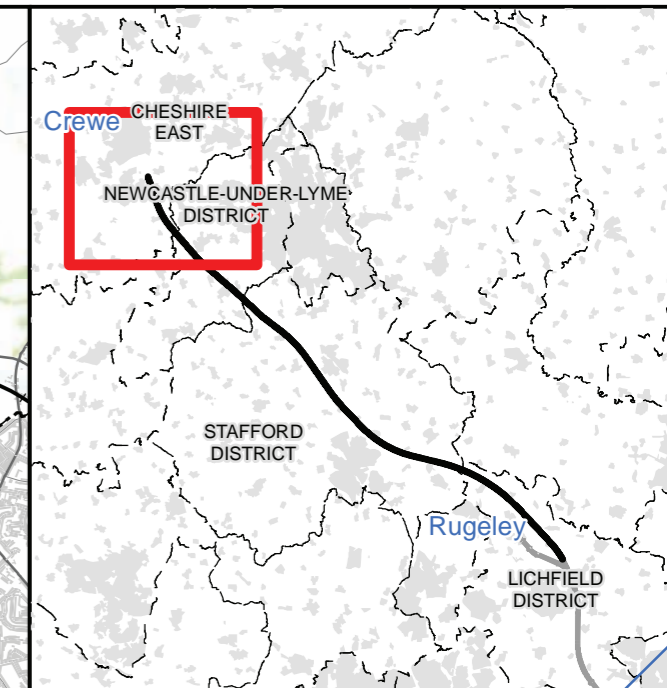
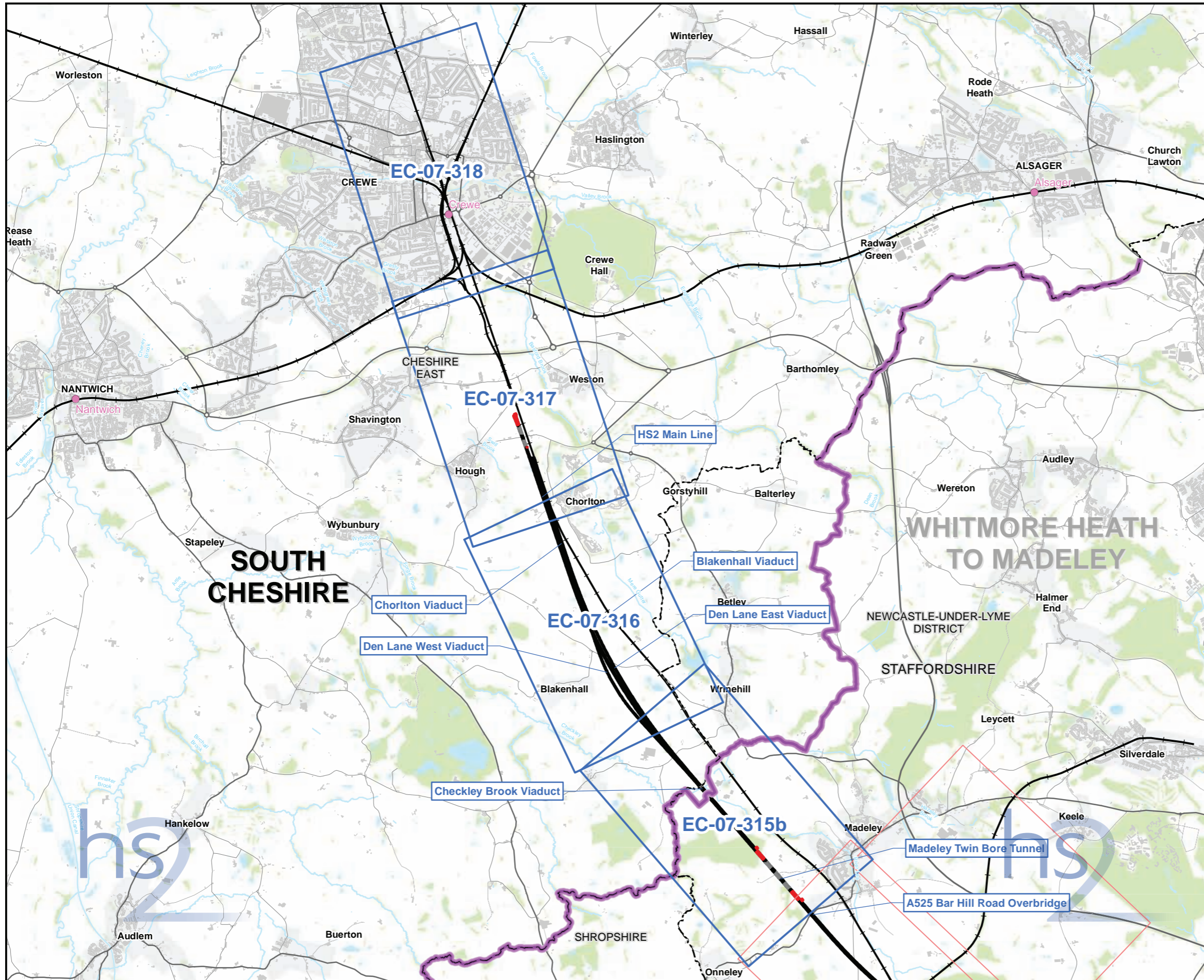
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Map Series Information:
 This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

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

Map Number	EC-07-INDEX-CA5
Map Name	Index Map of: Reptiles
	Community Area 5: South Cheshire

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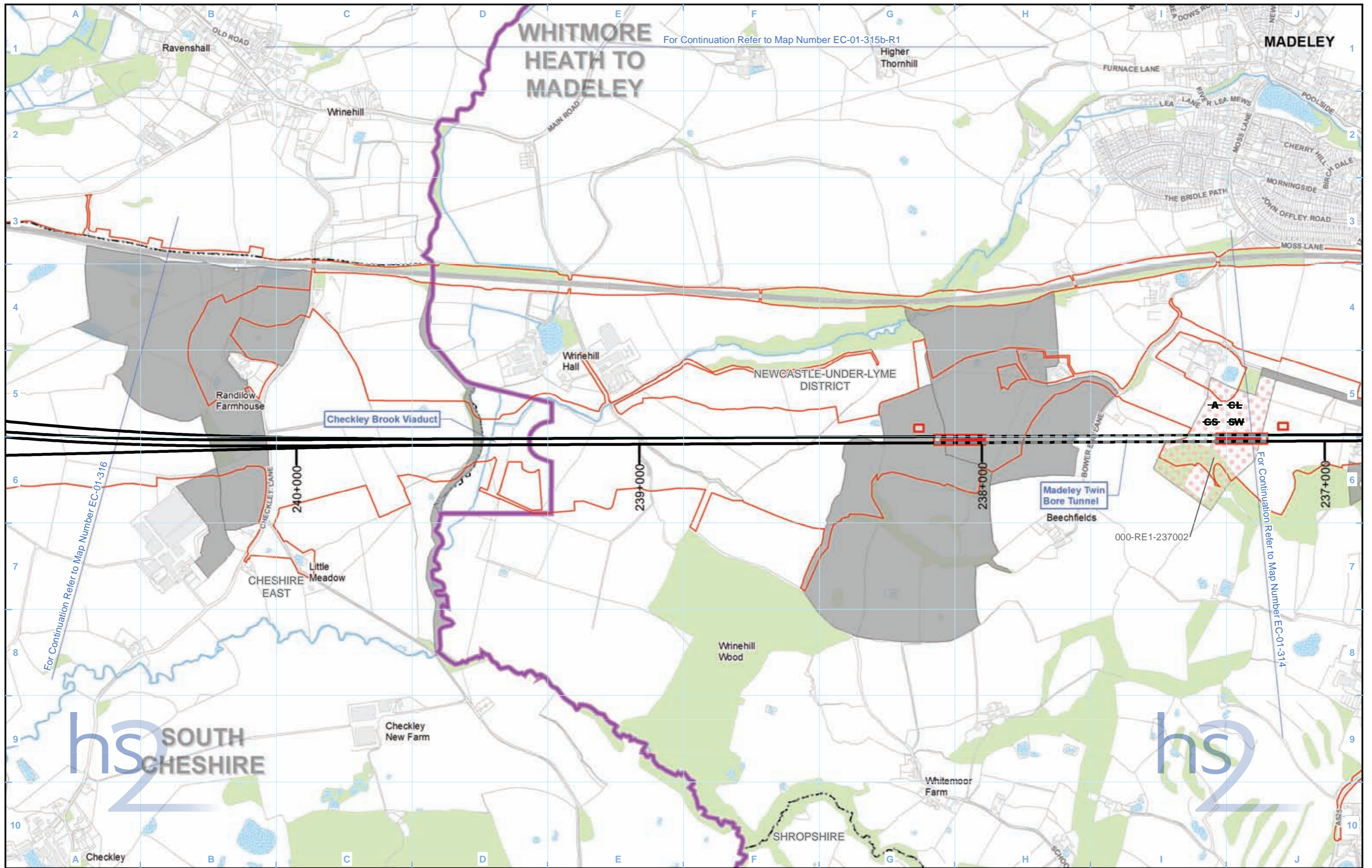
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For Continuation Refer to Map Number EC-01-315b-R1

For Continuation Refer to Map Number EC-01-316

For Continuation Refer to Map Number EC-01-314

Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number: EC-07-315b

Map Name: Reptiles

Community Area 5: South Cheshire

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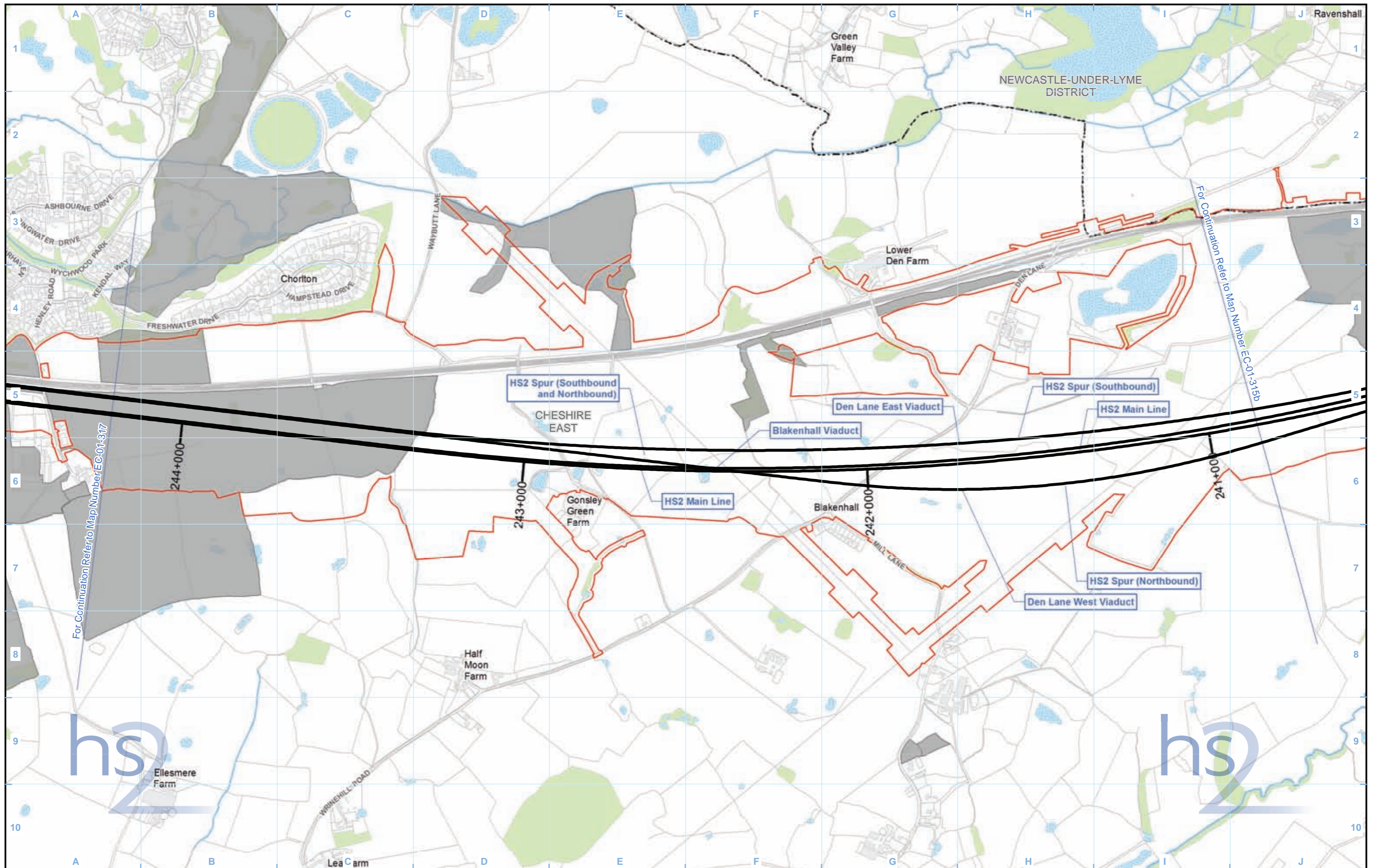
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Population size class survey - visits completed	Population size class assessment:			
Route on surface	Water body	Reptiles assumed present as surveys not completed	Adder:	Common lizard:	Grass snake:	Slow worm:
Depot, station, headhouse or portal building	Woodland (not verified by survey)	Presence/absence survey conducted - reptiles assumed absent	A High	CL High	GS High	SW High
Land potentially required during construction		Scoping visit only - scoped out	A Medium	CL Medium	GS Medium	SW Medium
Community area boundary		Scoping visit conducted - habitat suitable but no further survey conducted	A Low	CL Low	GS Low	SW Low
County boundary			A Absent	CL Absent	GS Absent	SW Absent
District/Borough boundary						

Map Number	EC-07-316
Map Name	Reptiles
	Community Area 5: South Cheshire

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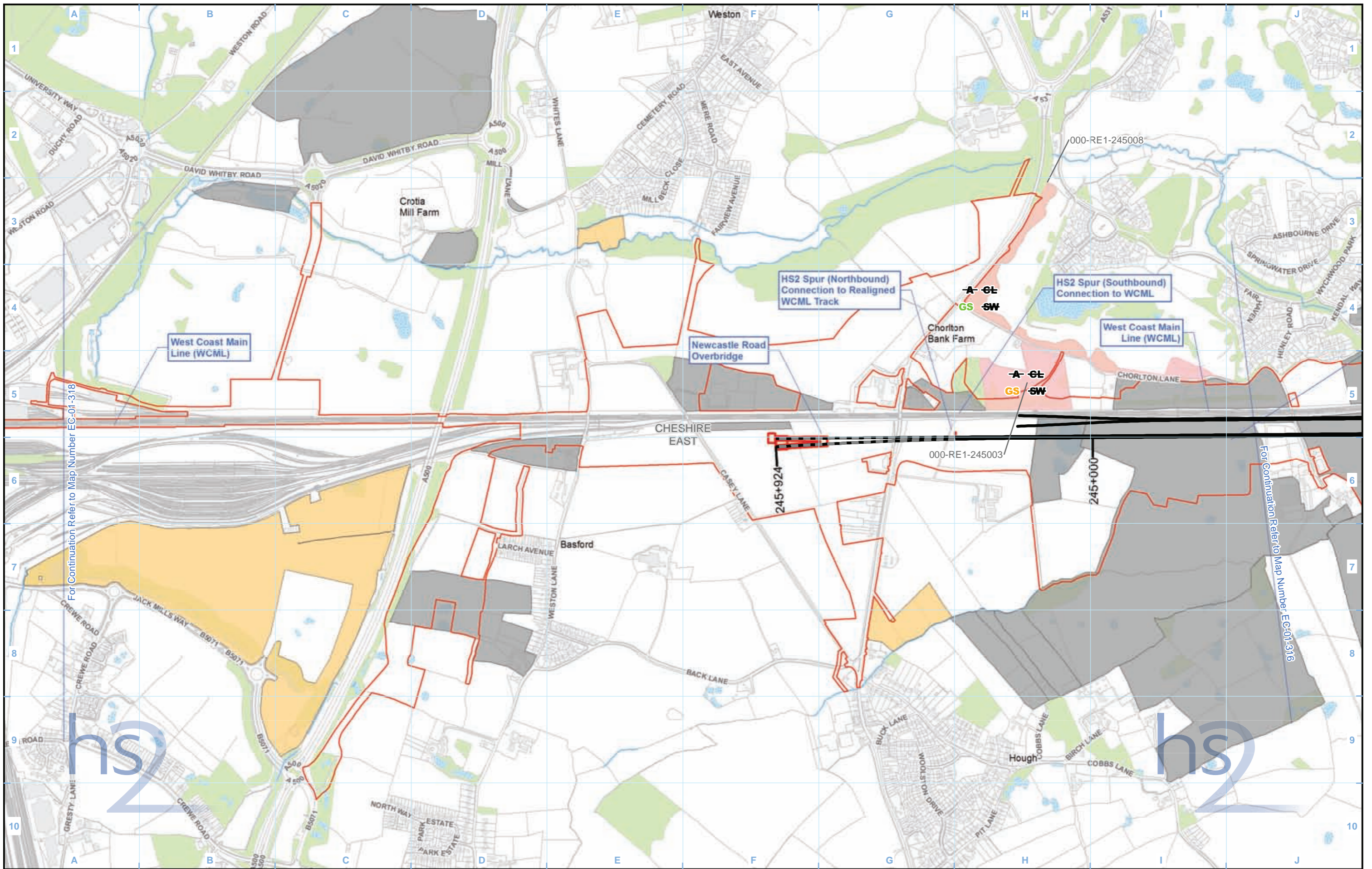
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)

Population size class survey - visits completed

- Reptiles assumed present as surveys not completed
- Presence/absence survey conducted - reptiles assumed absent
- Scoping visit only - scoped out
- Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number: **EC-07-317**

Map Name: **Reptiles**

Community Area 5:
South Cheshire

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Doc Number: C861-ARP-EV-MAP-000-077317-P04

Date: 14/06/17

For Continuation Refer to Map Number EC-01-319



For Continuation Refer to Map Number EC-01-317

Legend		Population size class survey - visits completed		Population size class assessment:									
	Route in tunnel		Watercourse		Reptiles assumed present as surveys not completed	A	High	CL	High	GS	High	SW	High
	Route on surface		Water body		Presence/absence survey conducted – reptiles assumed absent	A	Medium	CL	Medium	GS	Medium	SW	Medium
	Depot, station, headhouse or portal building		Woodland (not verified by survey)		Scoping visit only - scoped out	A	Low	CL	Low	GS	Low	SW	Low
	Land potentially required during construction				Scoping visit conducted – habitat suitable but no further survey conducted	A	Absent	CL	Absent	GS	Absent	SW	Absent
	Community area boundary												
	County boundary												
	District/Borough boundary												

Map Number	EC-07-318
Map Name	Reptiles
	Community Area 5: South Cheshire

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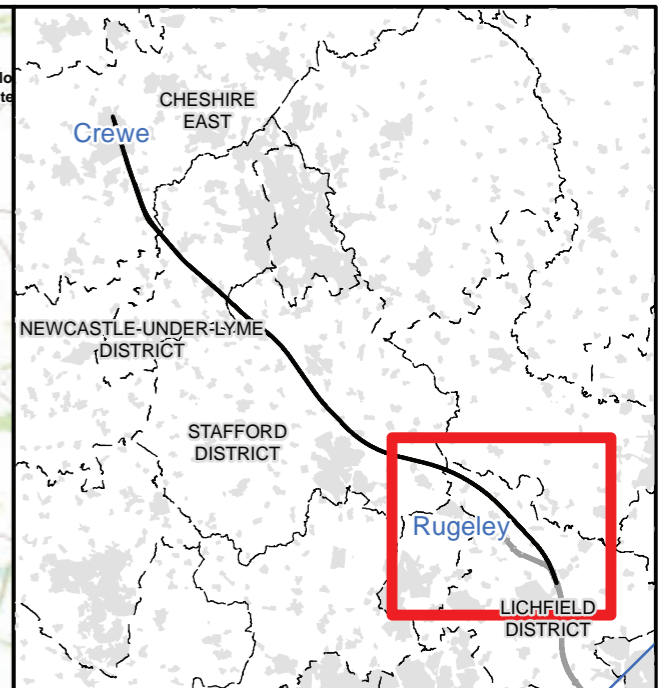
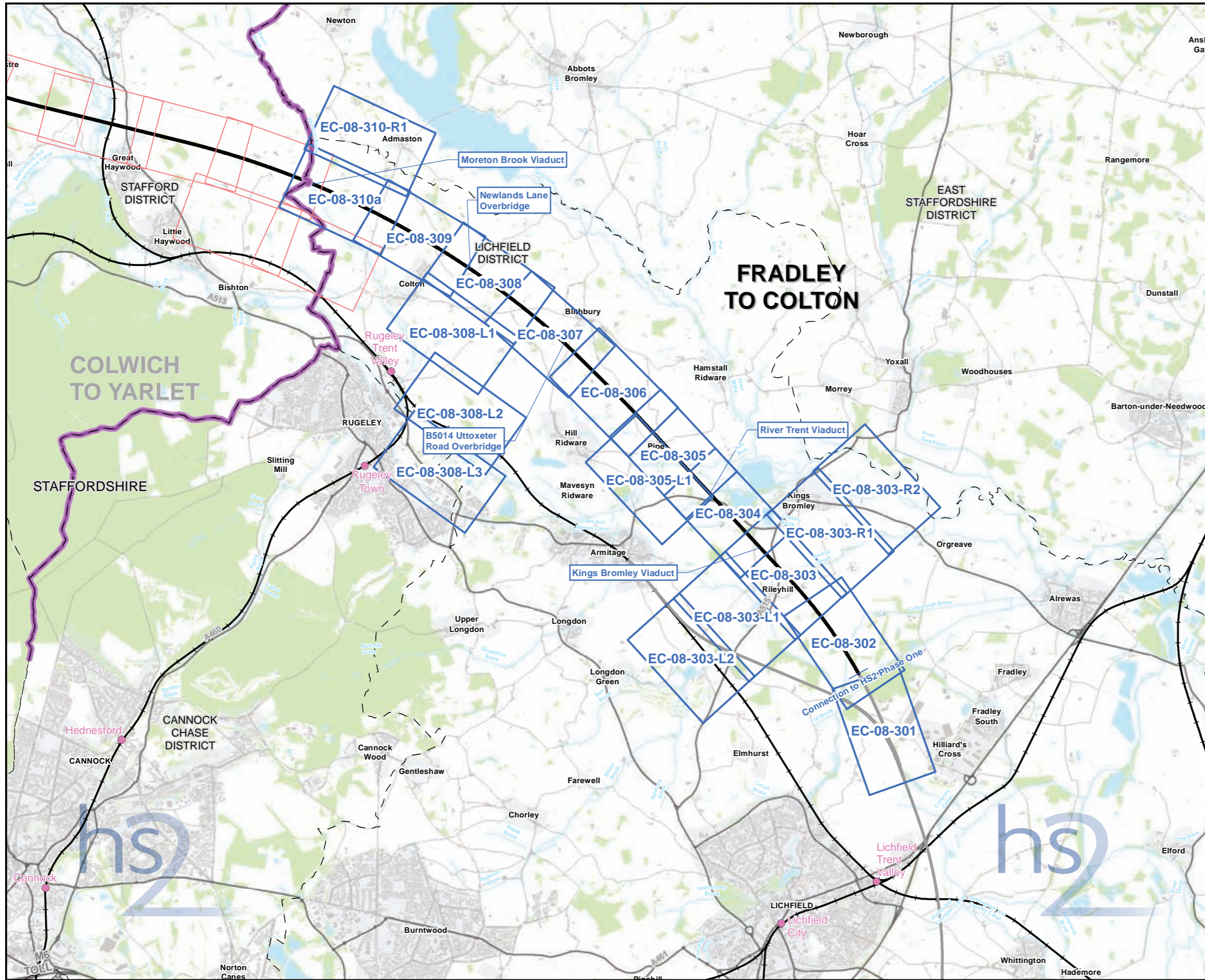
Doc Number: C861-ARP-EV-MAP-000-077318-P04

Date: 14/06/17

High Speed Two Phase 2a (West Midlands-Crewe)

Background Information and Data

EC-08 - Breeding Birds – Protected and Notable Species



Map Series Information:

This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.

Main Map Legend

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

Map Number: EC-08-INDEX-CA1

Map Name: Index Map of: Breeding Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

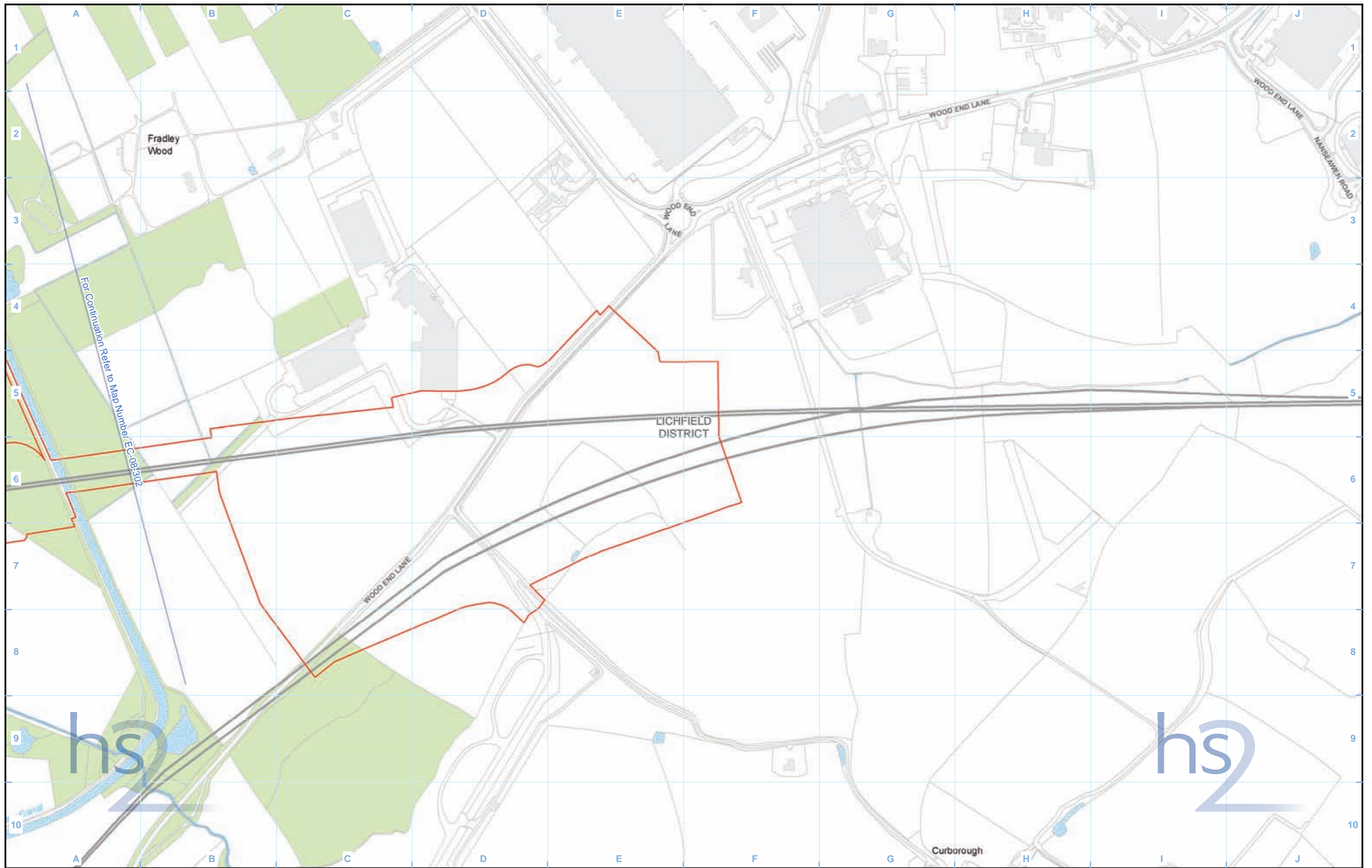
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-301
Map Name	Breeding Birds - Protected and Notable Species
Community Area 1: Fradley to Colton	




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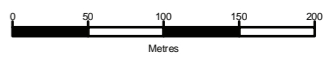
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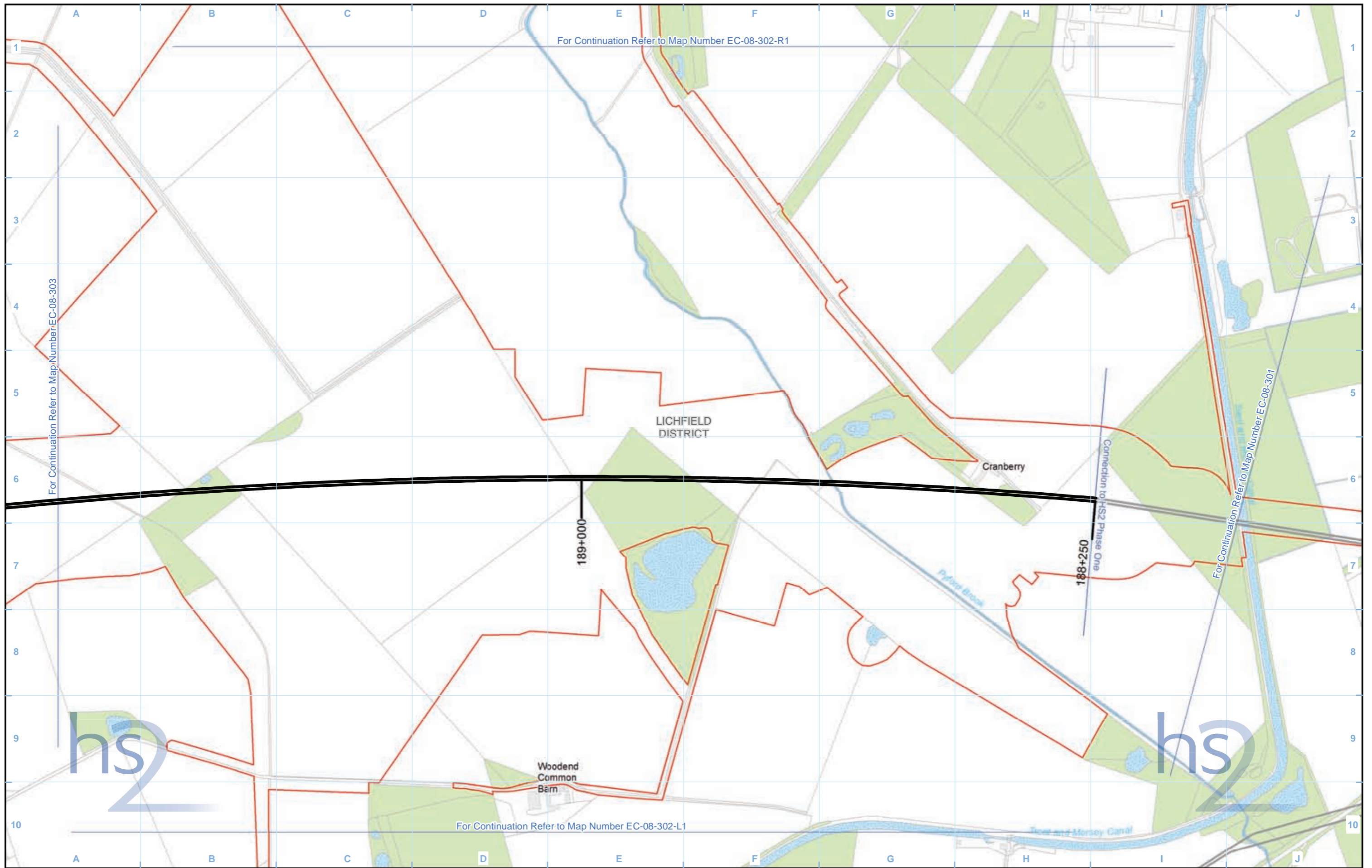


Scale at A3: 1:5,000



Metres

Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-302

Map Name
Breeding Birds - Protected and Notable Species

Community Area 1:
Fradley to Colton

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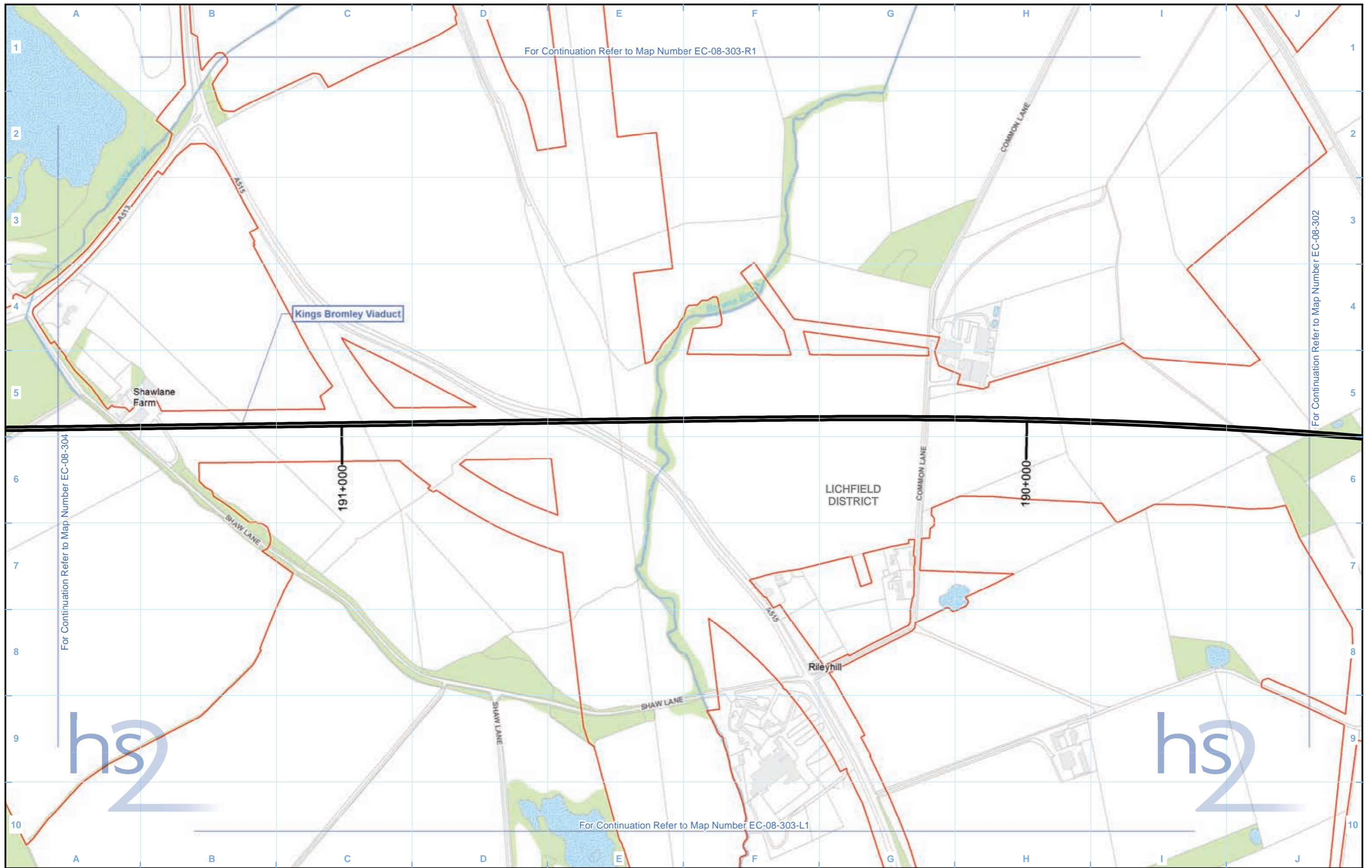
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Doc Number: C861-ARP-EV-MAP-000-078302-P03

Date: 14/06/17



Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number **EC-08-303**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

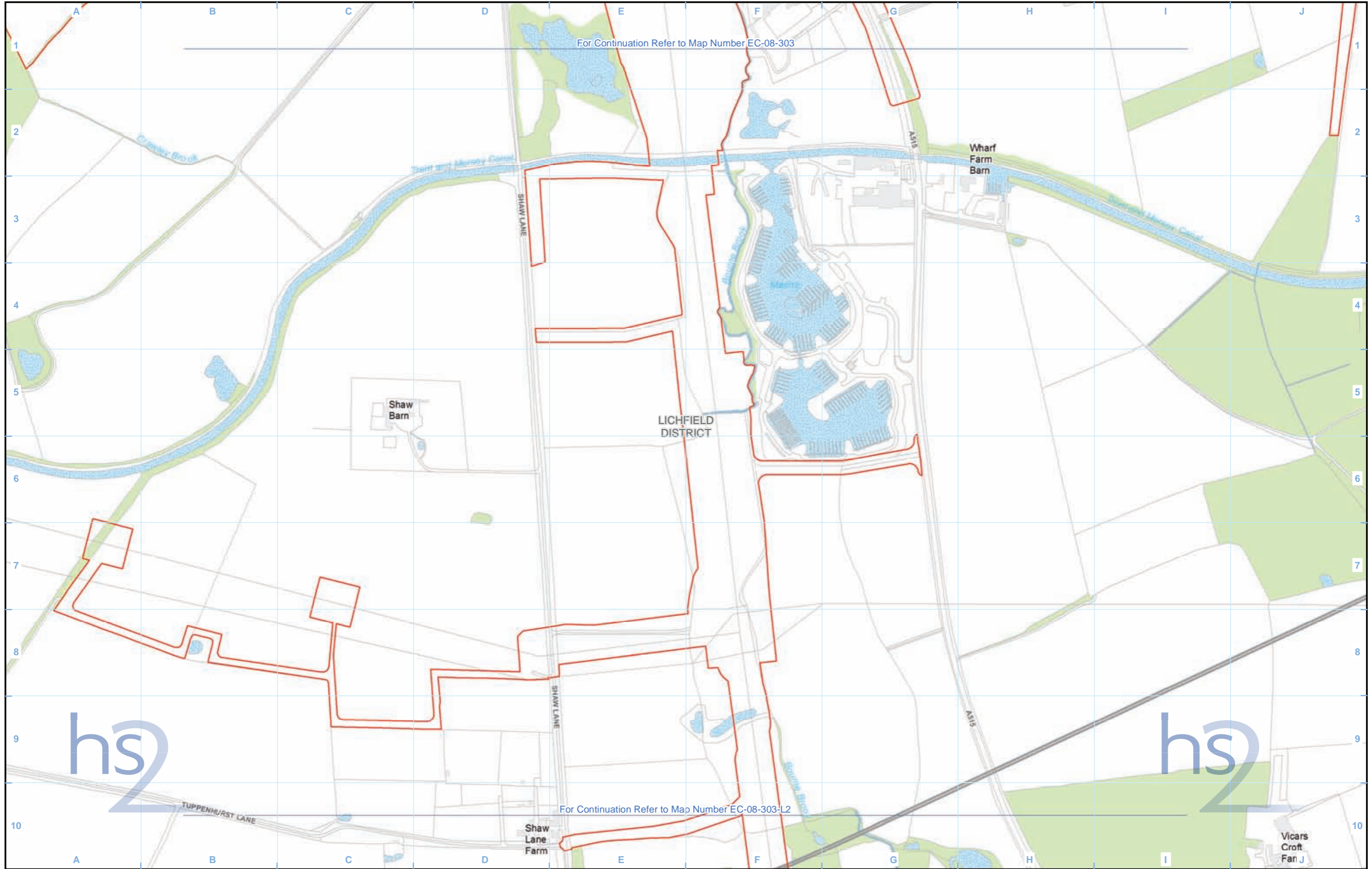
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Doc Number: C861-ARP-EV-MAP-000-078303-P03 Date: 14/06/17



Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number **EC-08-303-L1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

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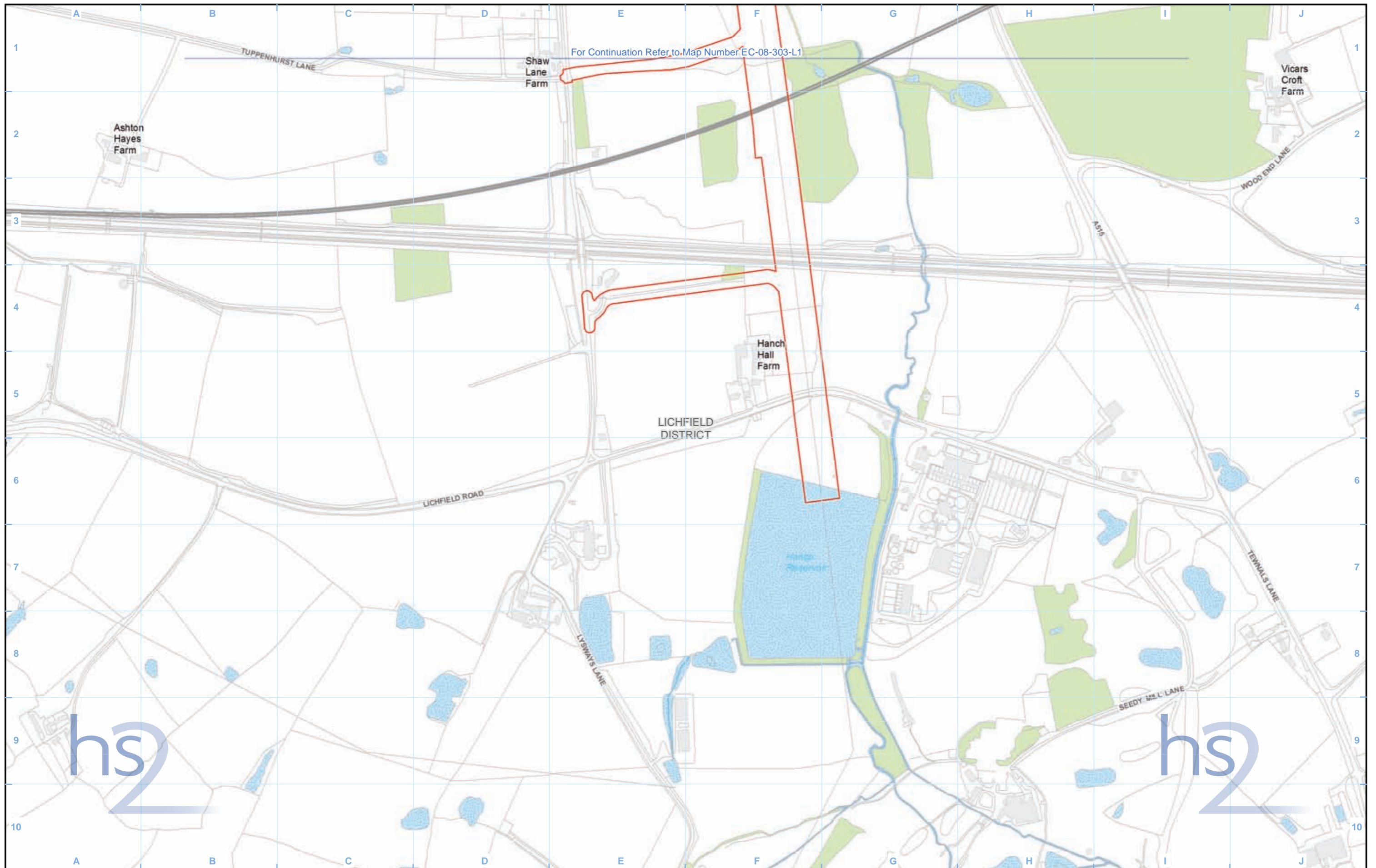
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For Continuation Refer to Map Number EC-08-303-L1

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-303-L2**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

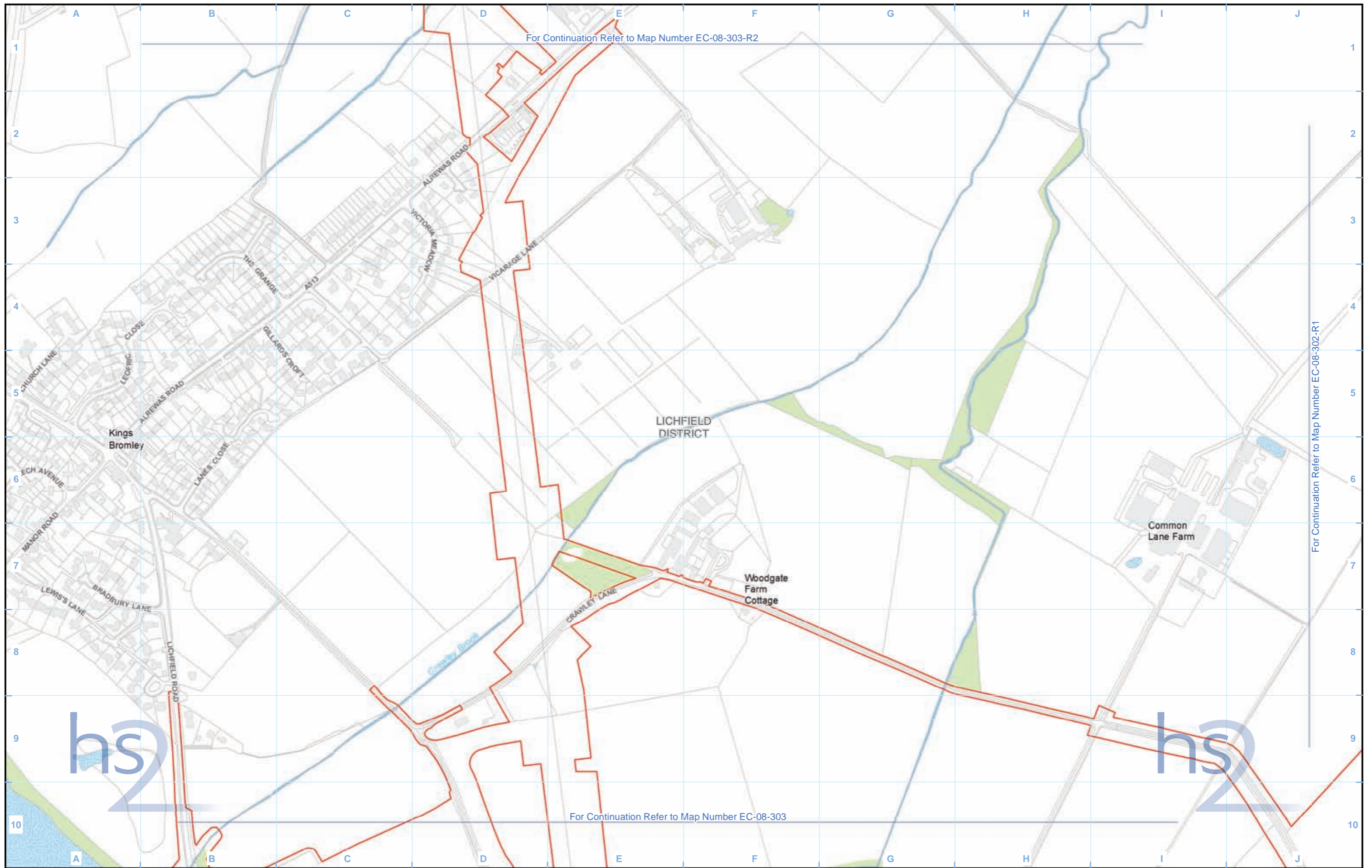
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For Continuation Refer to Map Number EC-08-302-R1

For Continuation Refer to Map Number EC-08-303

Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number **EC-08-303-R1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

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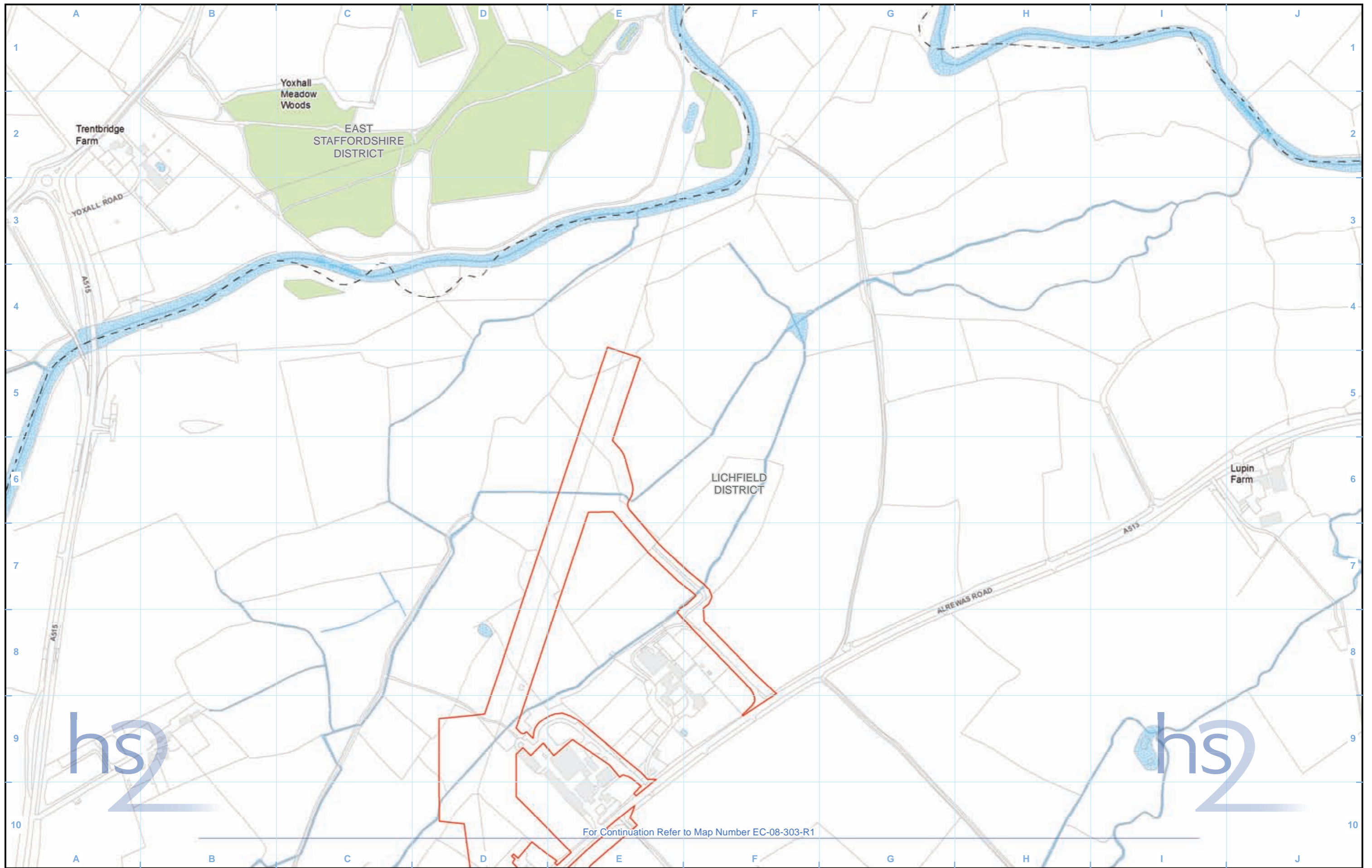
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-303-R1

Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number **EC-08-303-R2**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

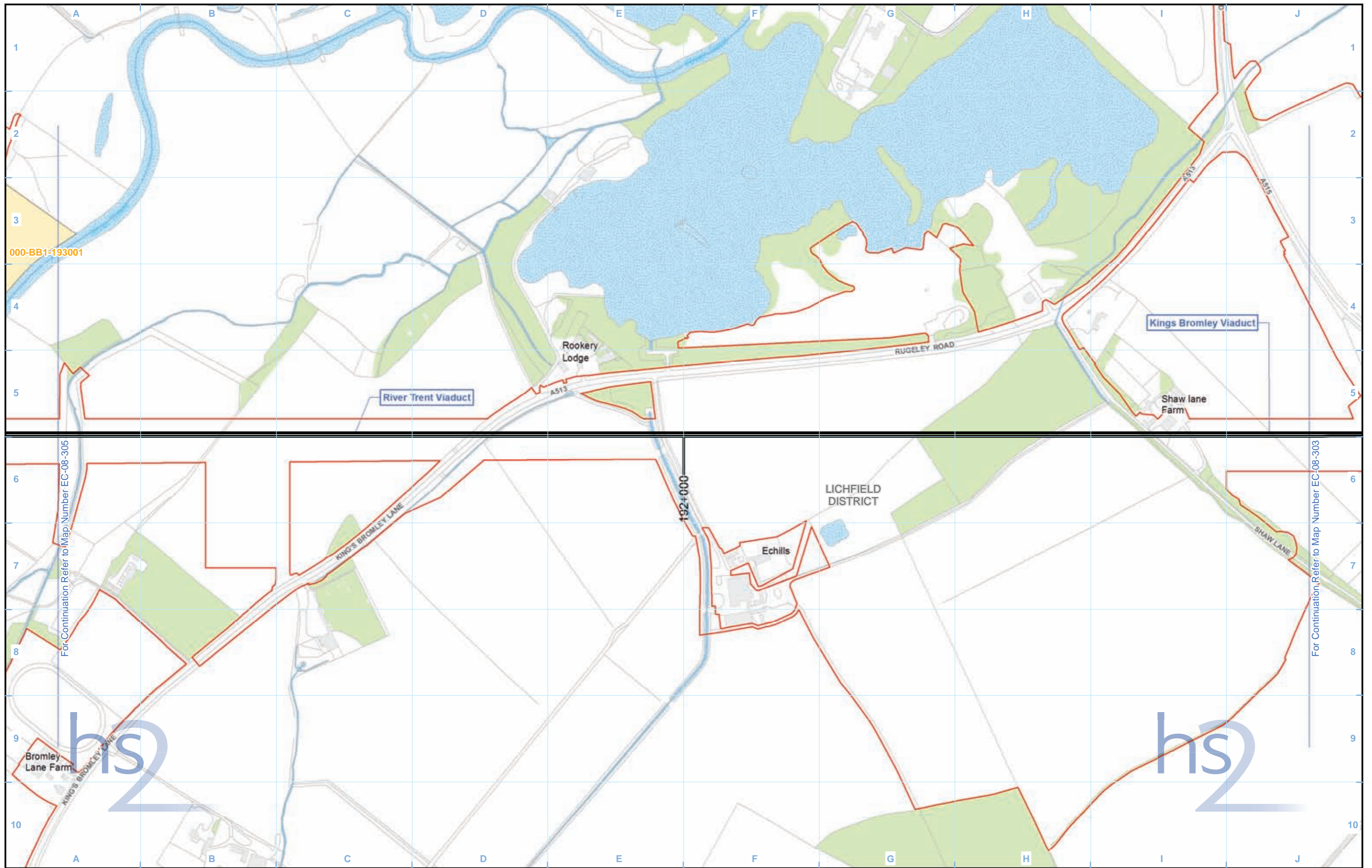
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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-304

Map Name
Breeding Birds - Protected and Notable Species

Community Area 1:
Fradley to Colton

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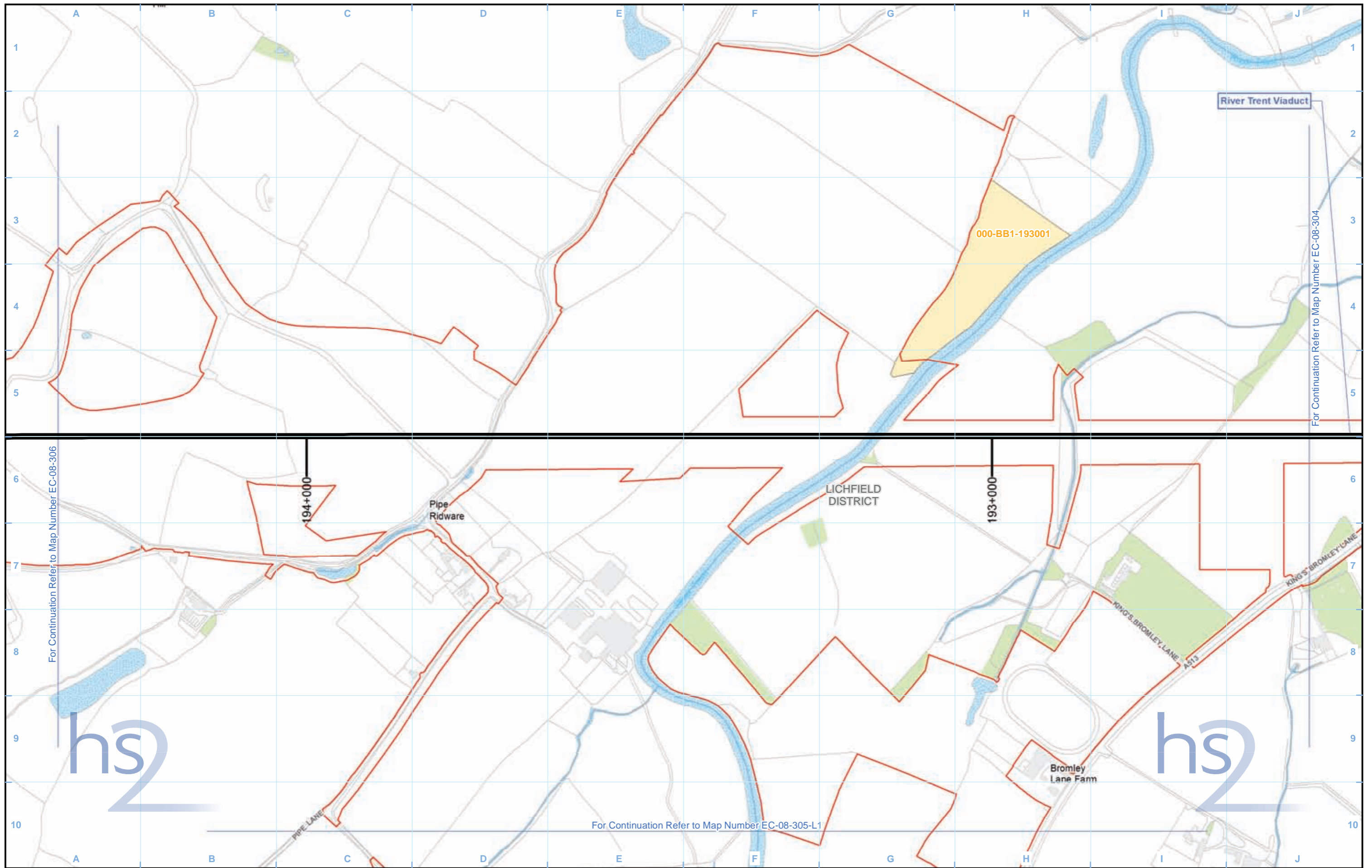
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Doc Number: C861-ARP-EV-MAP-000-078304-P03

Date: 14/06/17



Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number
EC-08-305

Map Name
Breeding Birds - Protected and Notable Species

Community Area 1:
Fradley to Colton

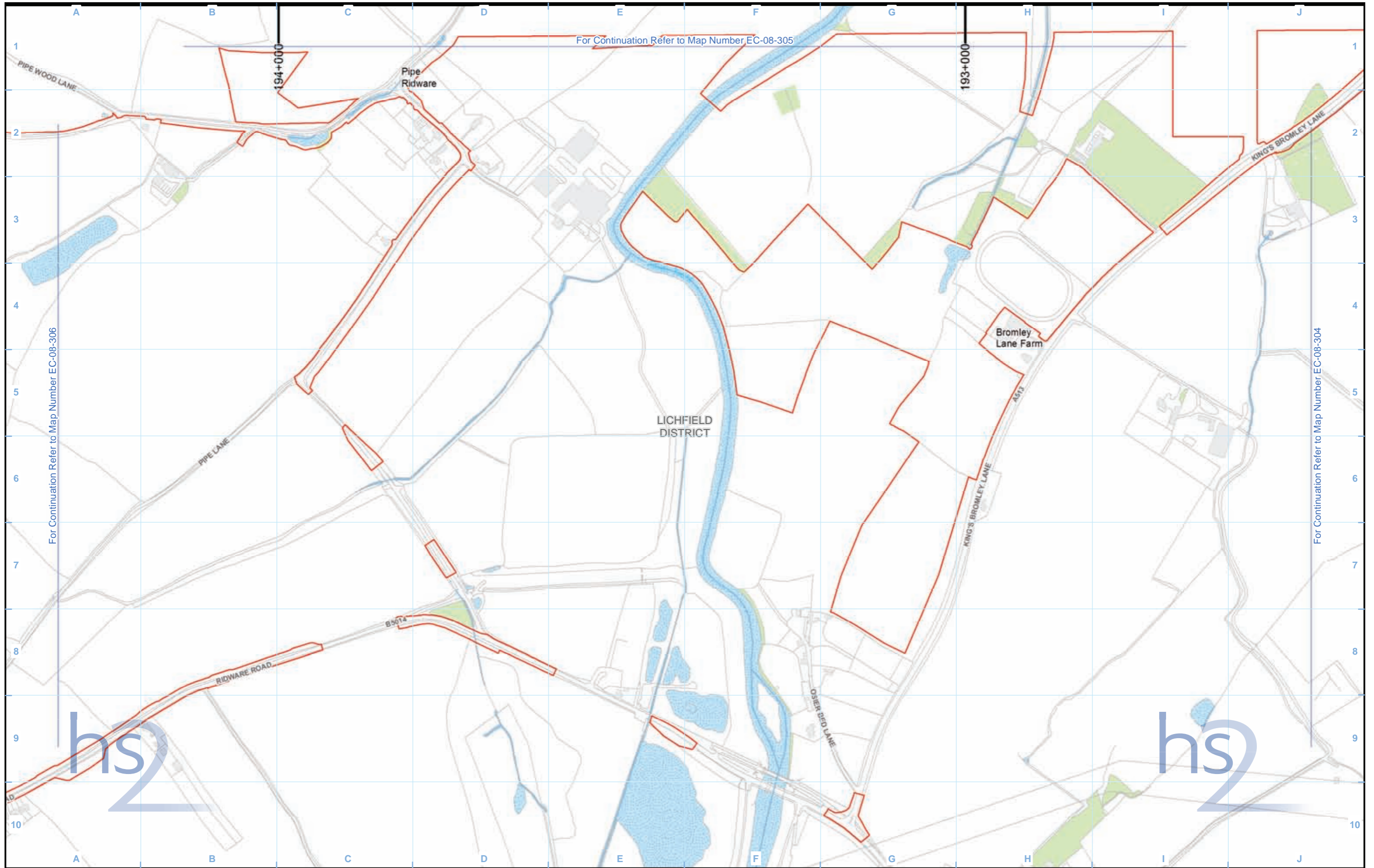
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Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number: EC-08-305-L1

Map Name: Breeding Birds - Protected and Notable Species

Community Area 1: Fradley to Colton

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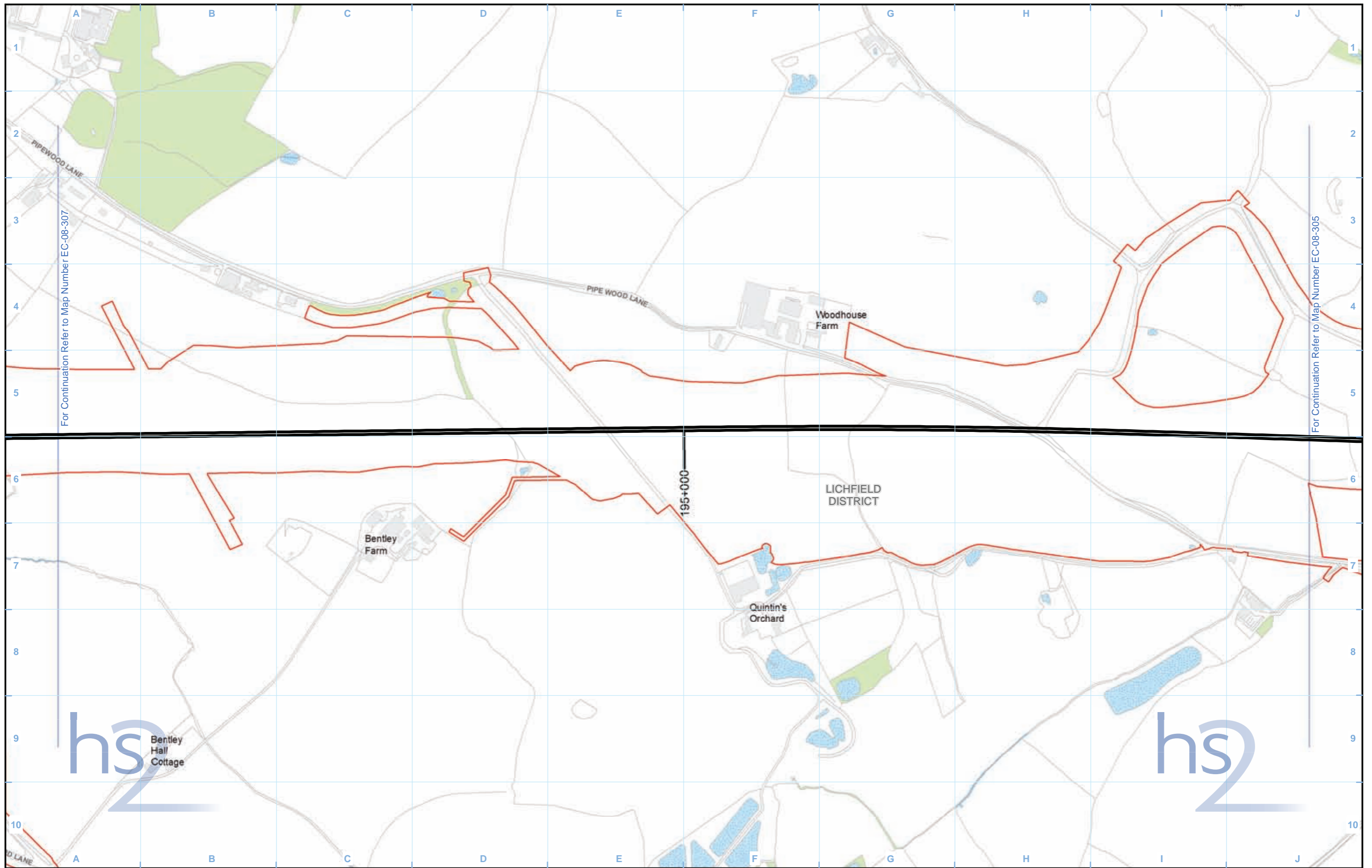
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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-306

Map Name
Breeding Birds - Protected and Notable Species

Community Area 1:
Fradley to Colton

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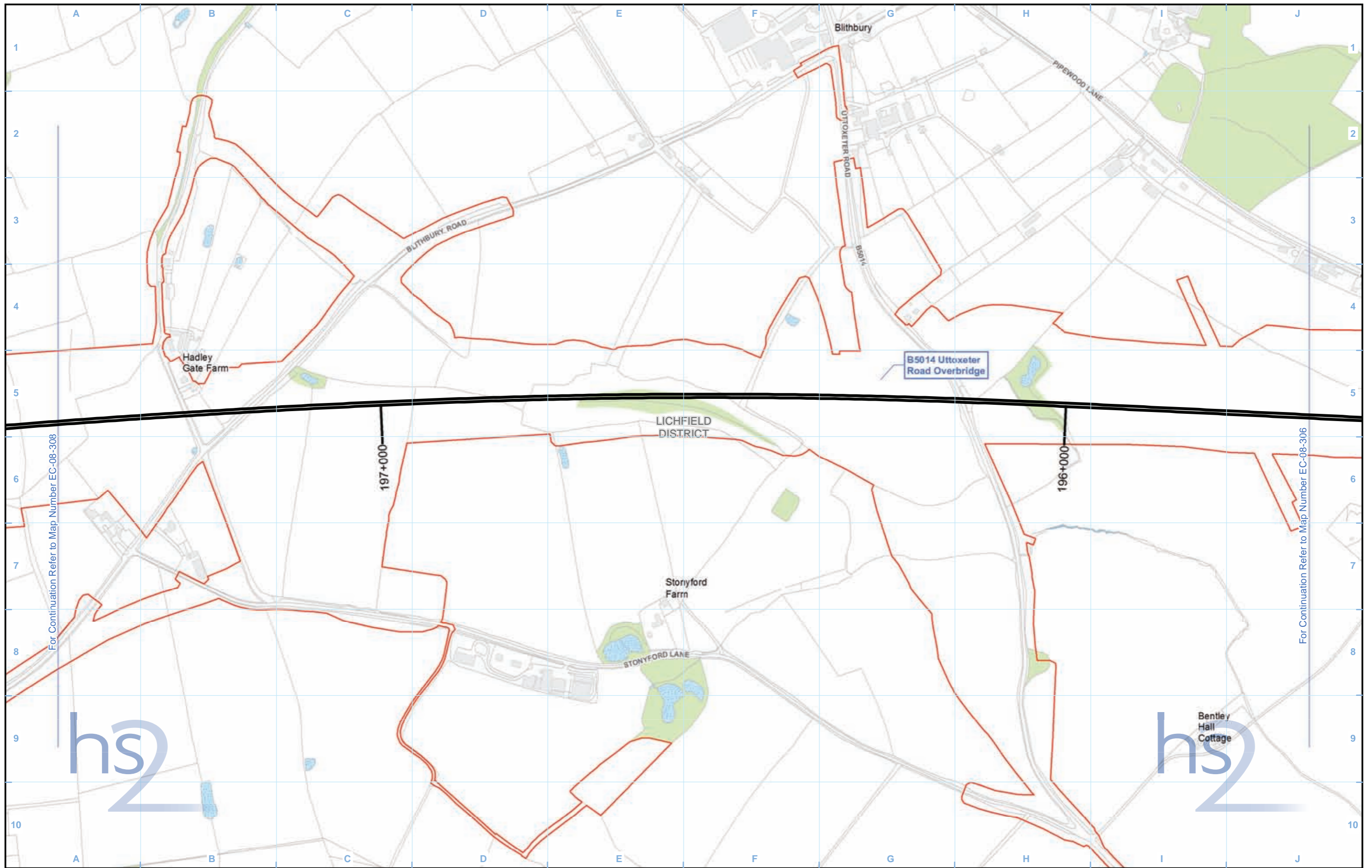
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Date: 14/06/17



Legend

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Map Number	EC-08-307
Map Name	Breeding Birds - Protected and Notable Species
Community Area 1: Fradley to Colton	

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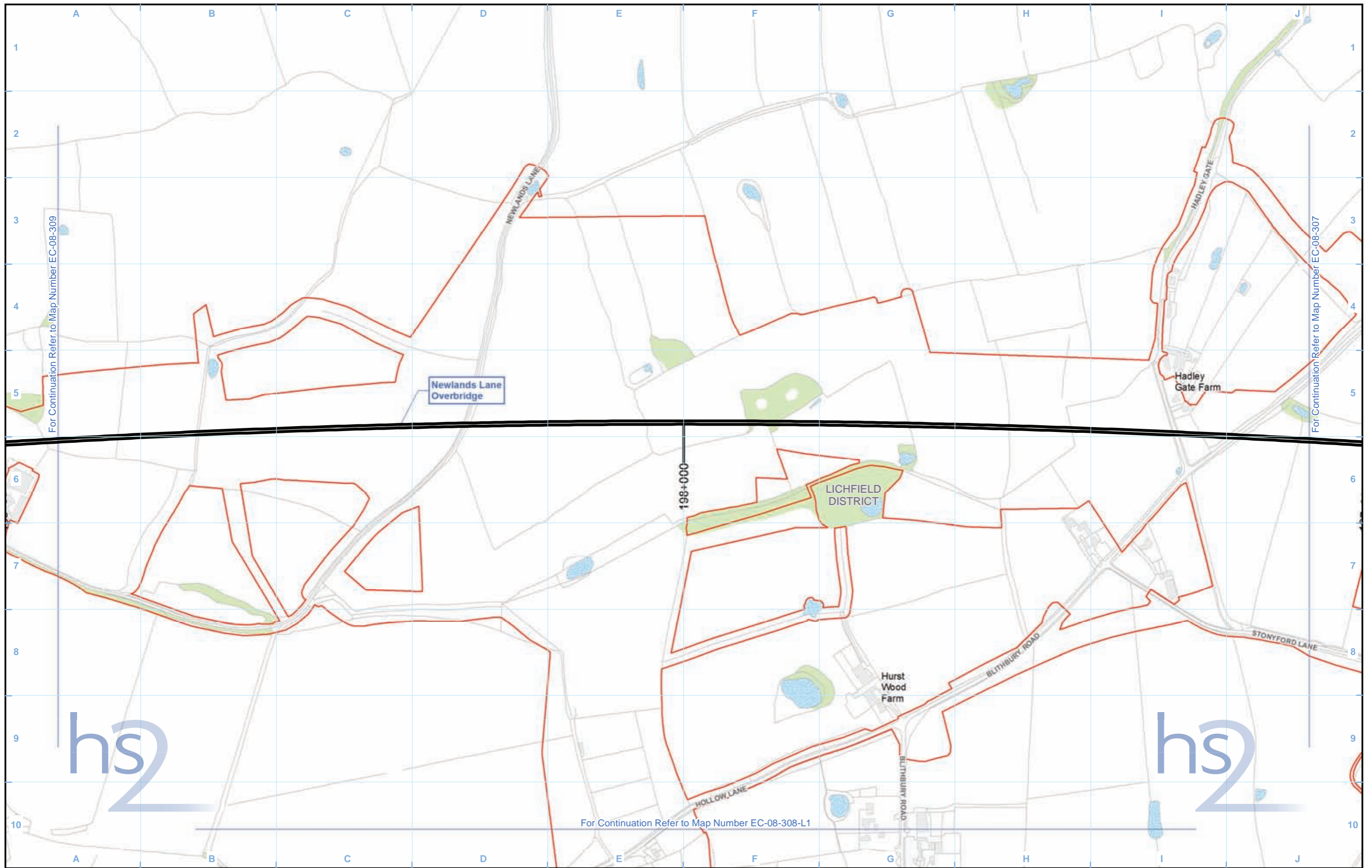
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For Continuation Refer to Map Number EC-08-309

For Continuation Refer to Map Number EC-08-307

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For Continuation Refer to Map Number EC-08-308-L1

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-308
Map Name	Breeding Birds - Protected and Notable Species
Community Area 1: Fradley to Colton	

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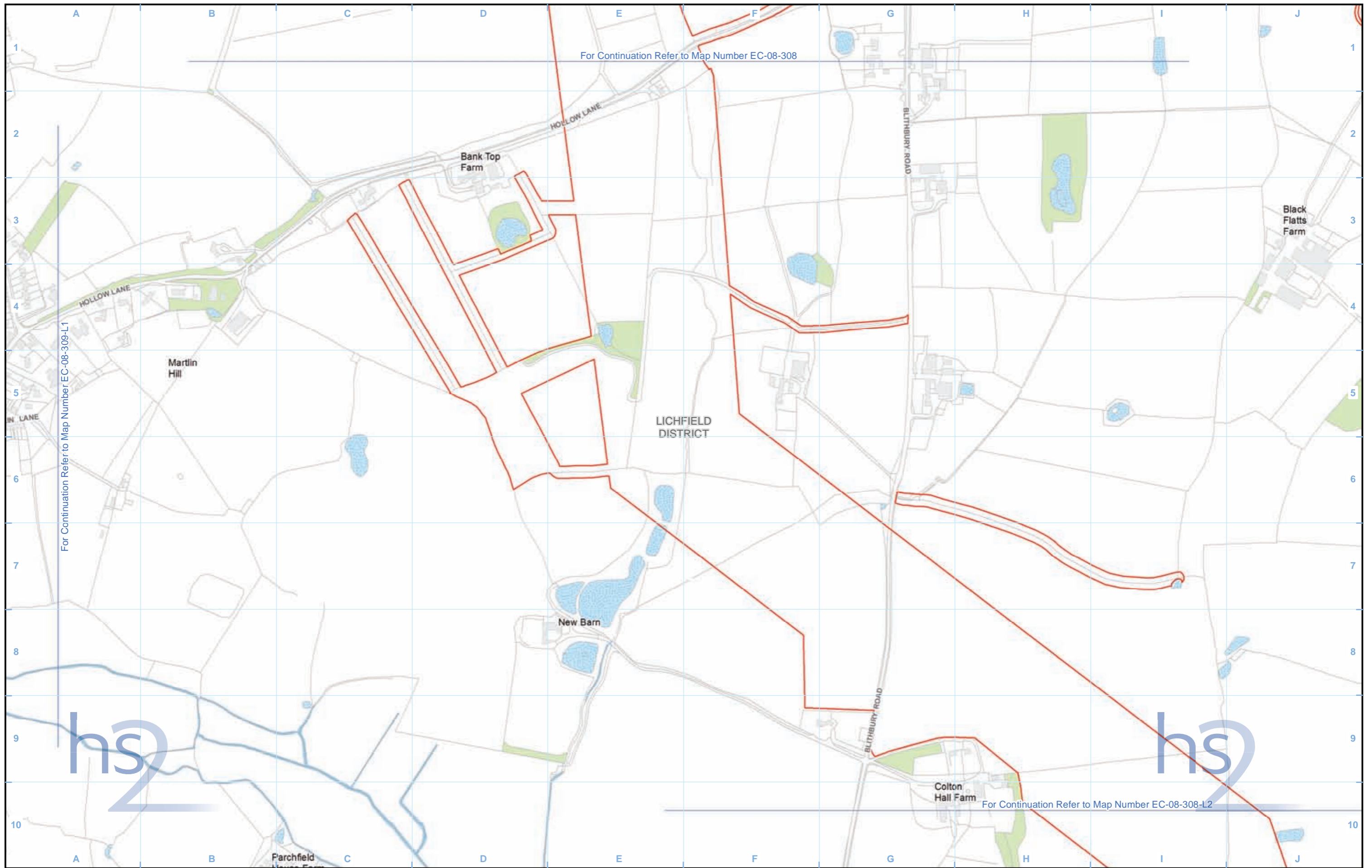
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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-308-L1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

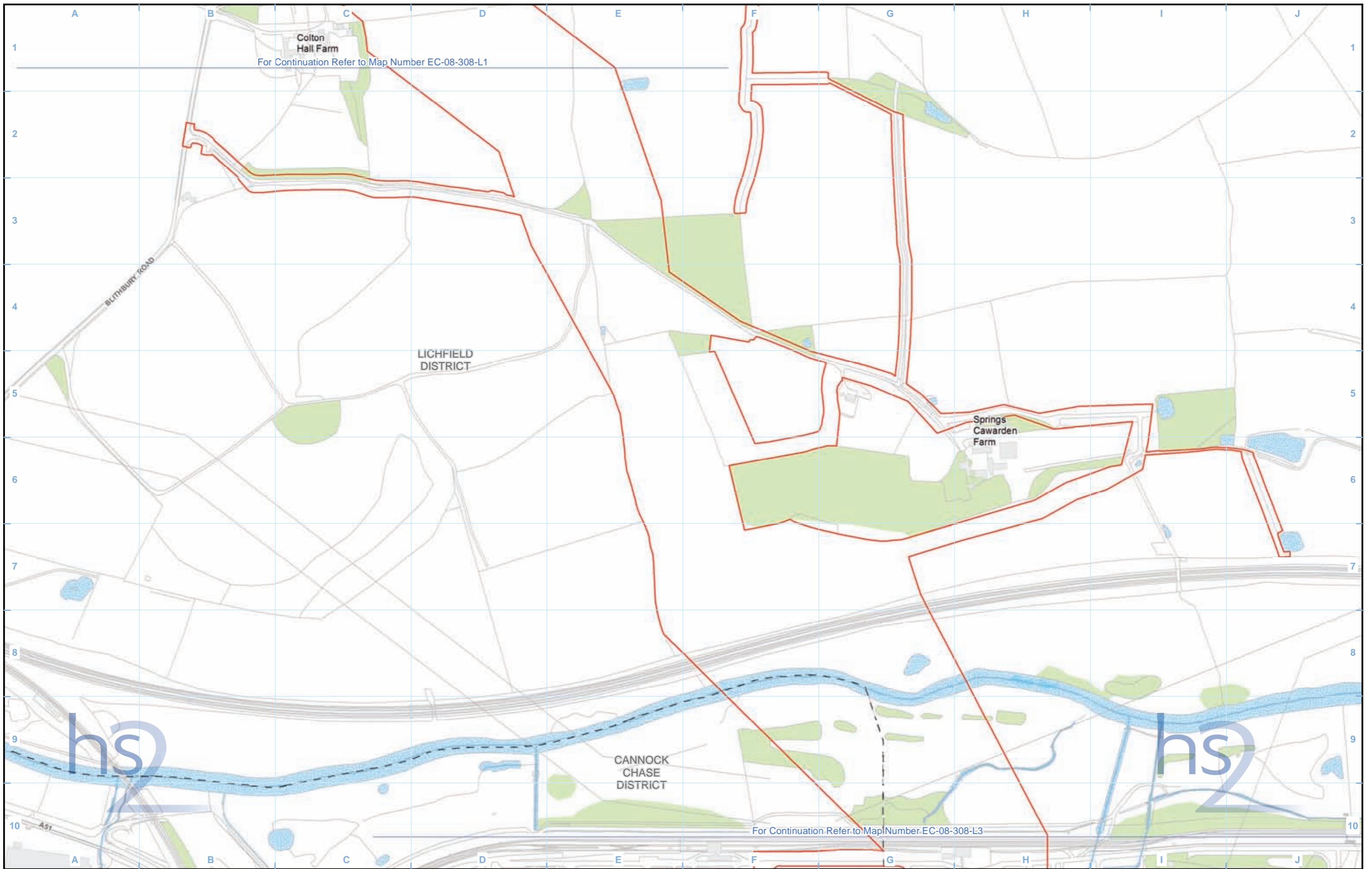
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For Continuation Refer to Map Number EC-08-308-L1

For Continuation Refer to Map Number EC-08-308-L3

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-308-L2**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

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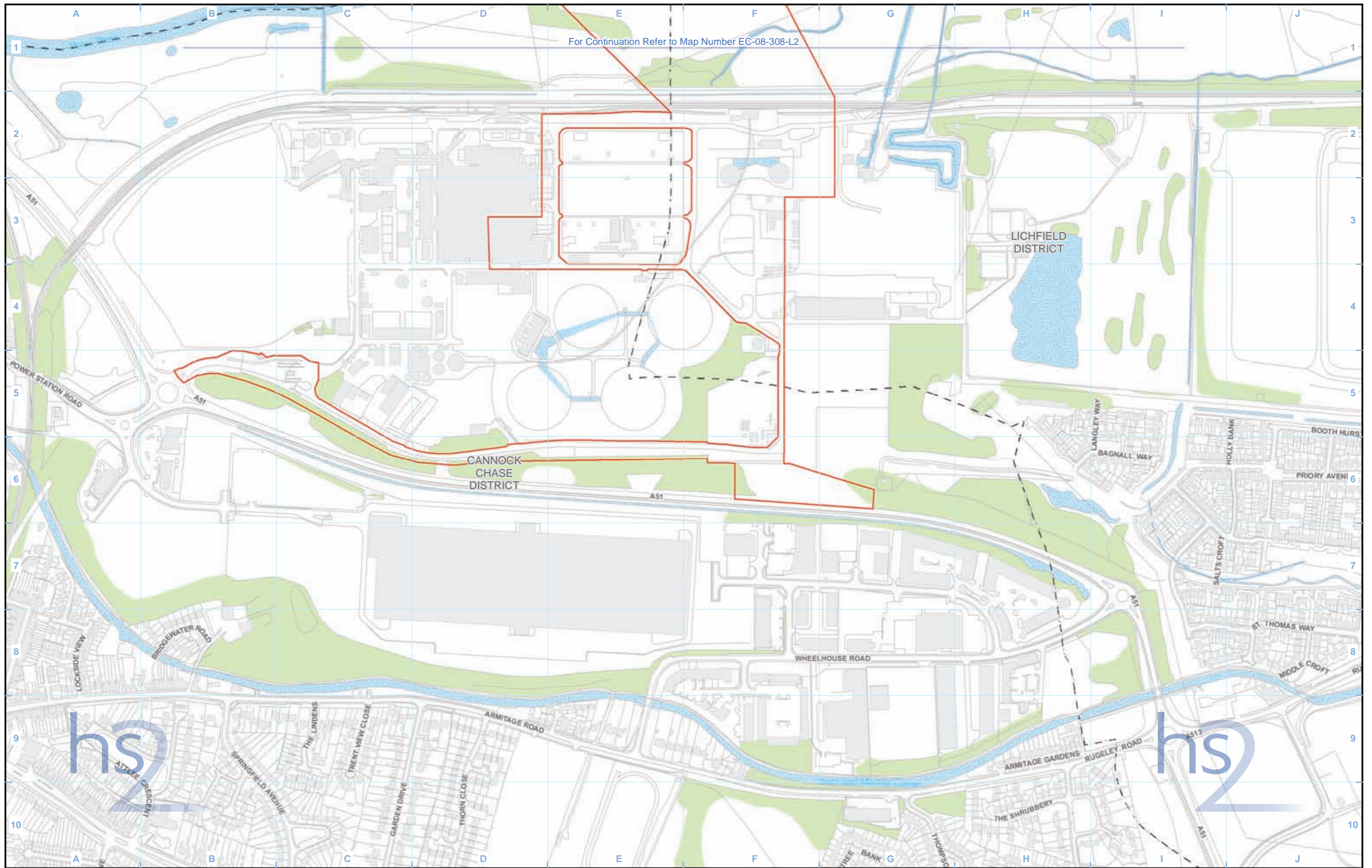
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-308-L2

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-308-L3**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

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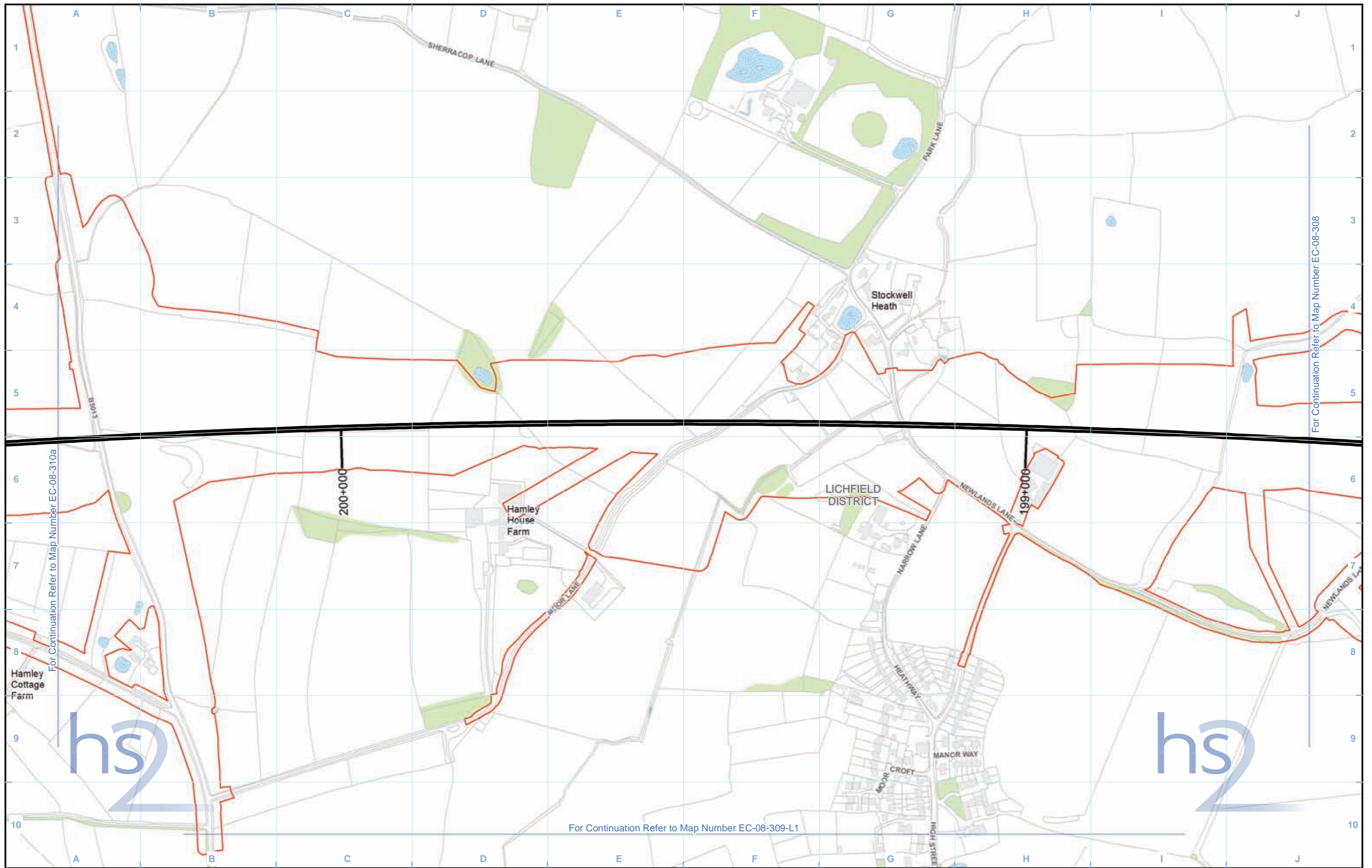
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Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-309

Map Name
Breeding Birds - Protected and Notable Species

Community Area 1:
Fradley to Colton

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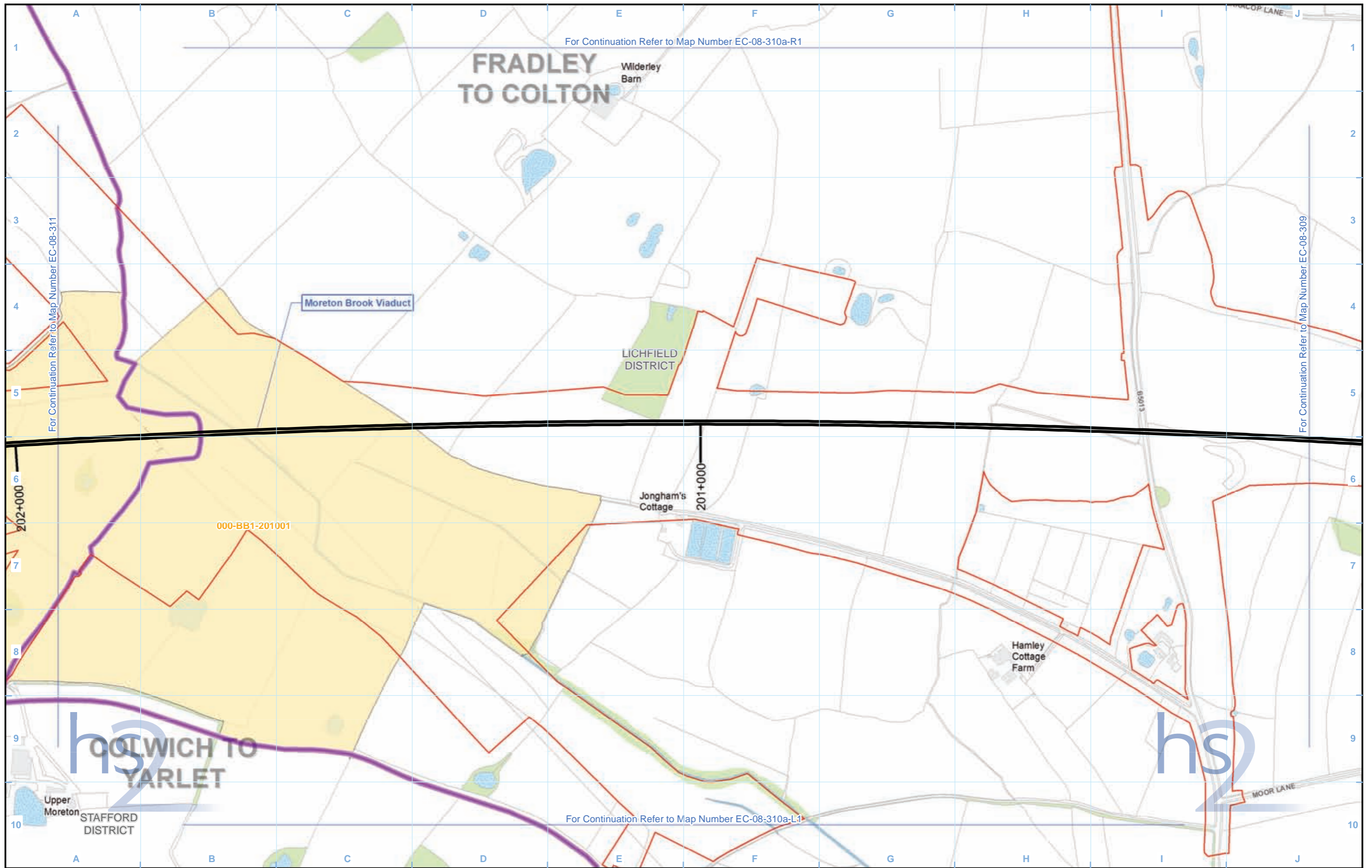
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent
	Watercourse
	Water body
	Woodland


Map Number	EC-08-310a
Map Name	Breeding Birds - Protected and Notable Species
Community Area 1: Fradley to Colton	

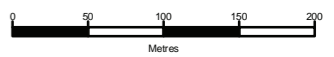

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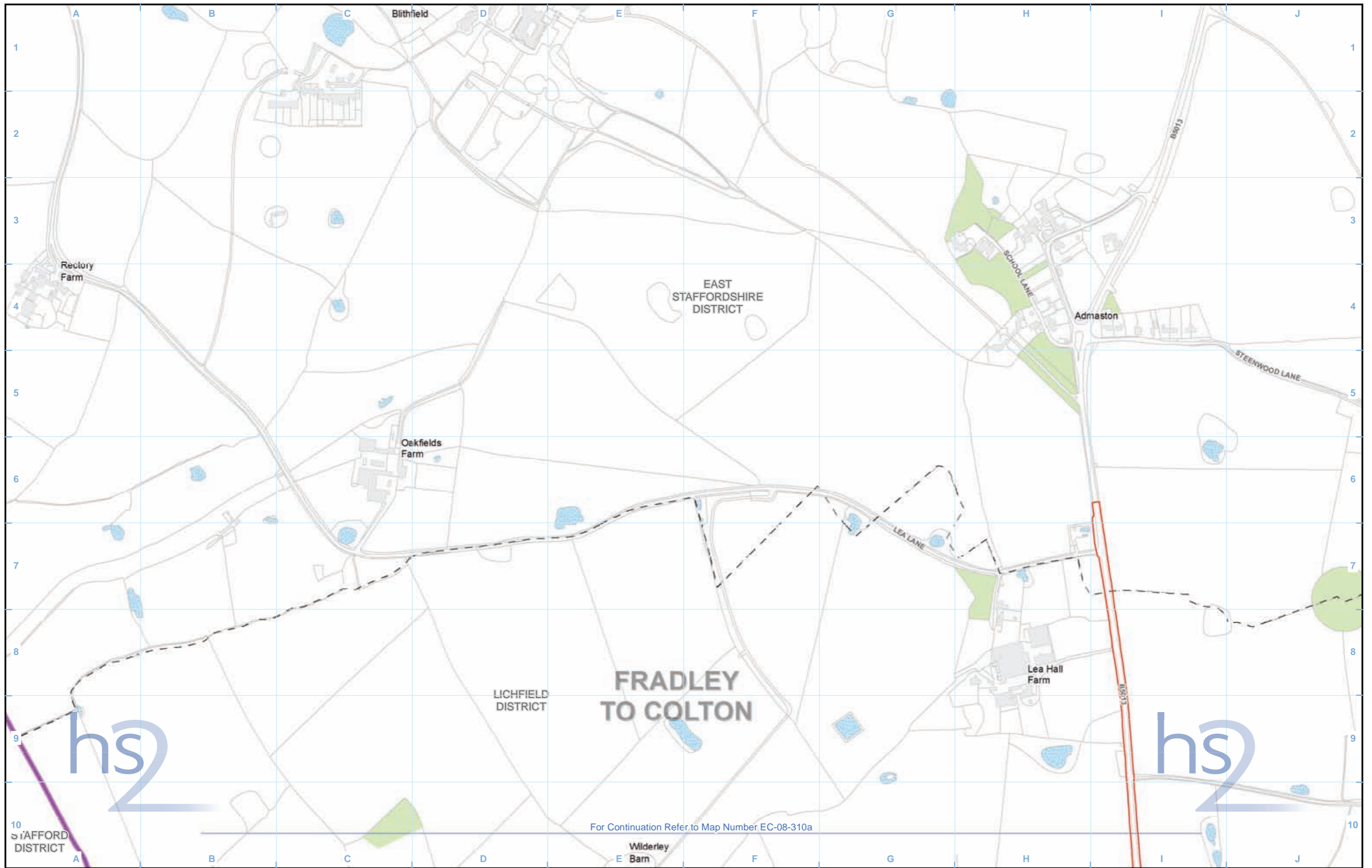
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Doc Number: C861-ARP-EV-MAP-000-078310-P03 Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-310-R1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 1:
Fradley to Colton

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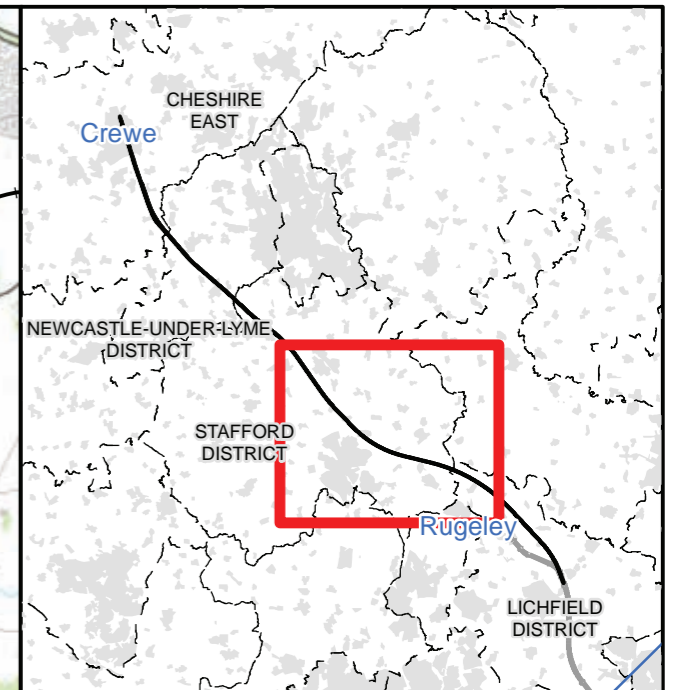
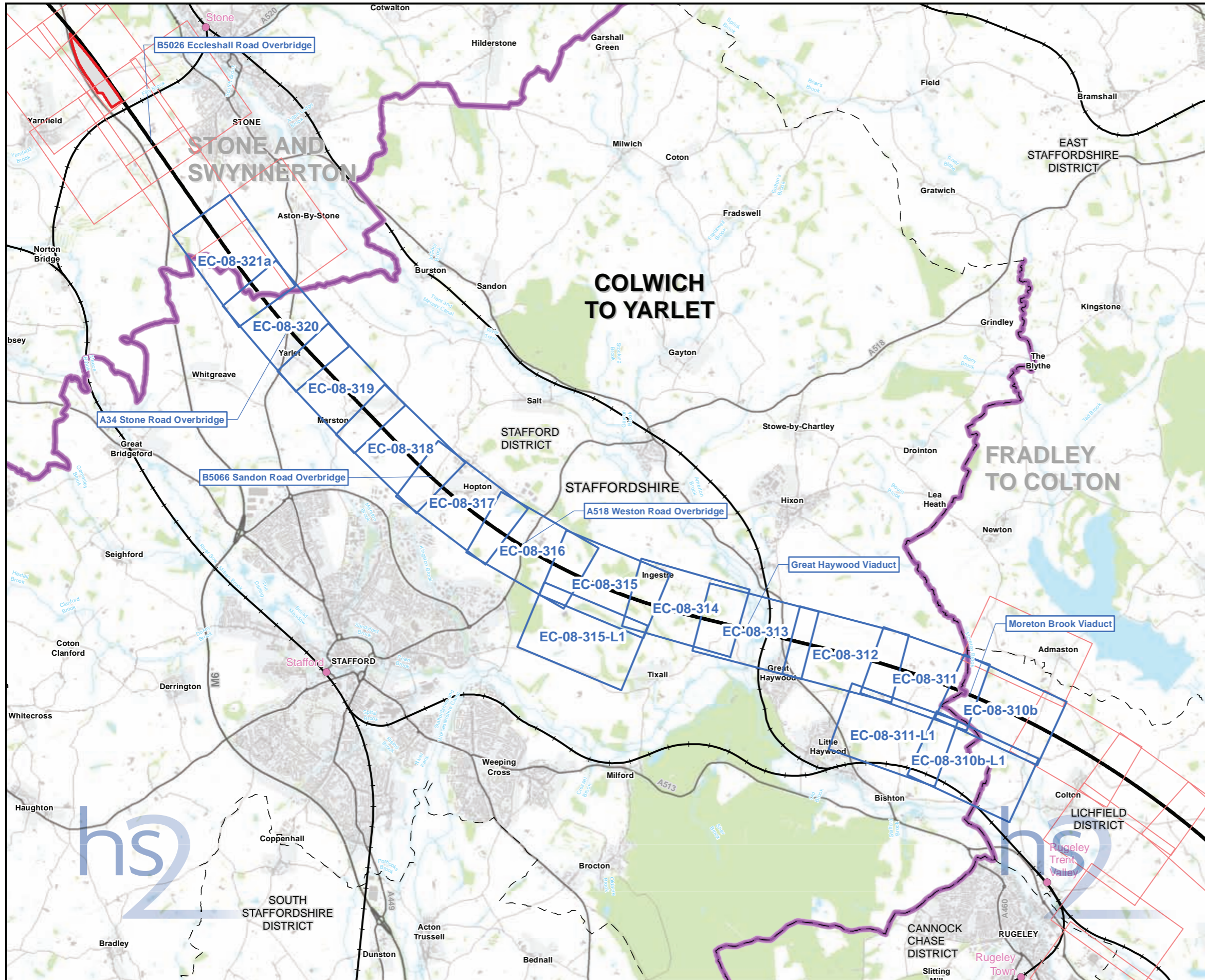
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Doc Number: C861-ARP-EV-MAP-000-078510-P03 Date: 14/06/17

For Continuation Refer to Map Number EC-08-310a



Map Series Information:

This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.

Main Map Legend

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

Map Number: EC-08-INDEX-CA2

Map Name: Index Map of: Breeding Birds – Protected and Notable Species

Community Area 2: Colwich to Yarlet

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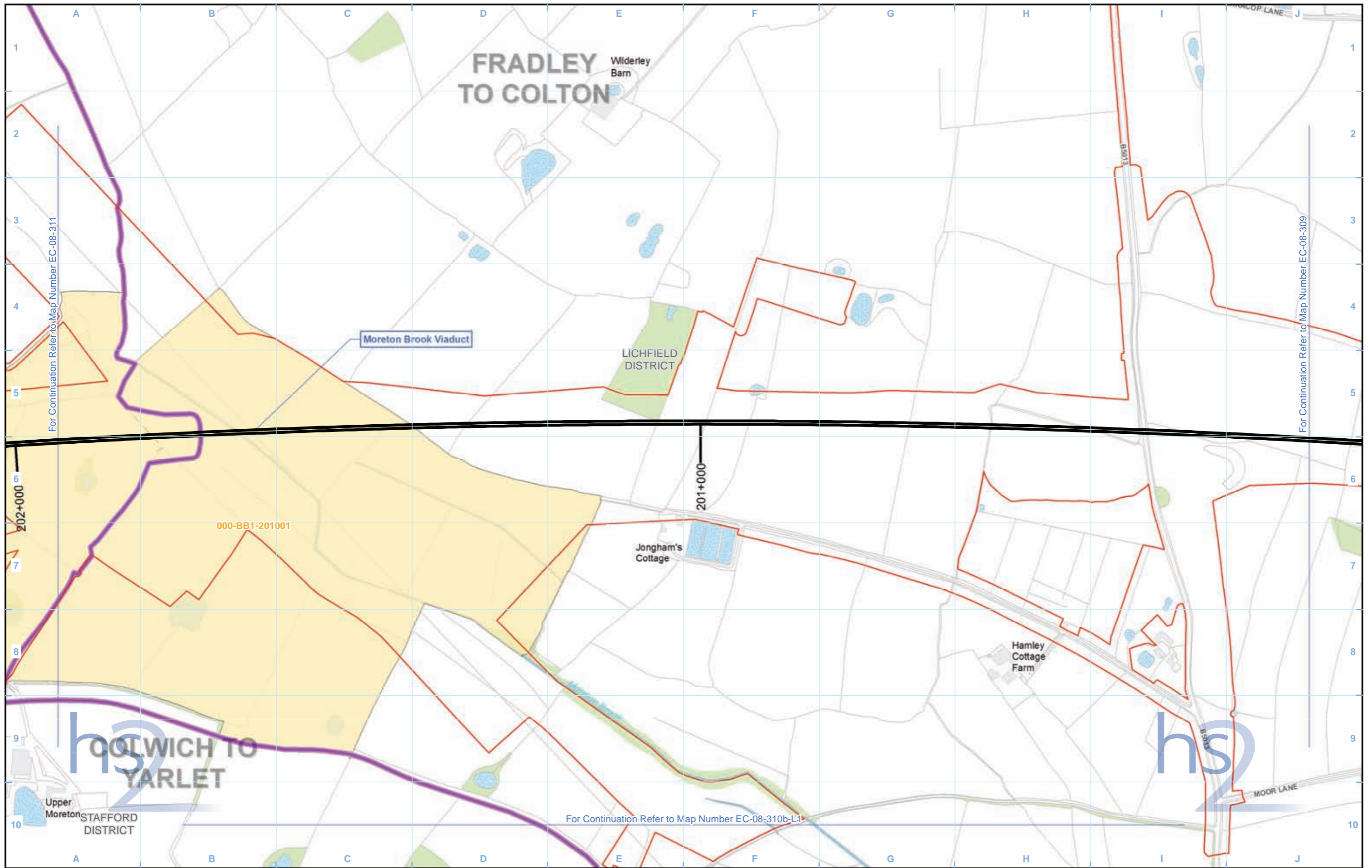
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0 700 1,400 2,100 2,800 Metres

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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number: EC-08-310b

Map Name: Breeding Birds - Protected and Notable Species

Community Area 2: Colwich to Yarlet

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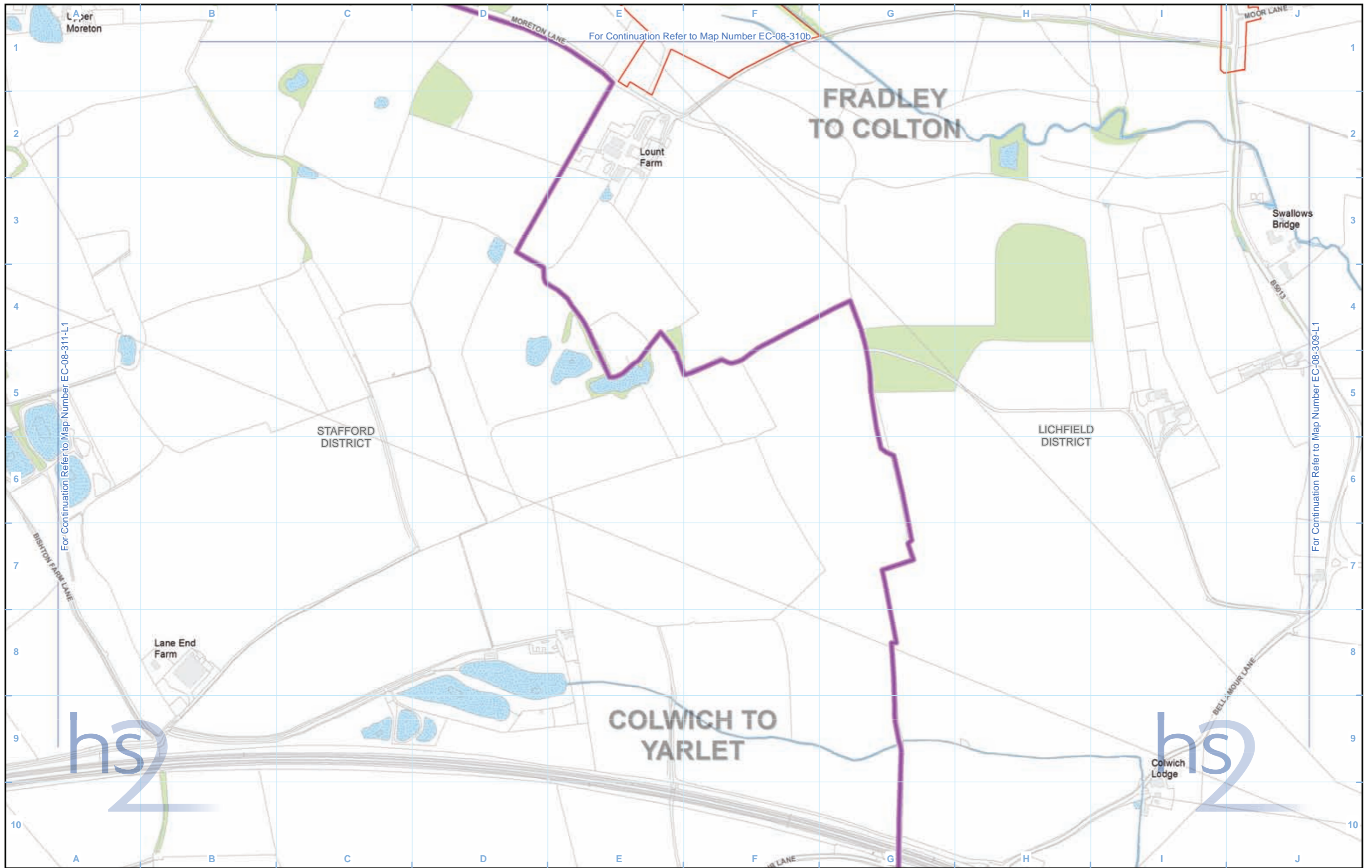
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Legend	
Route in bored tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland
Land potentially required during construction	Species listed on Annex I of the Birds Directive
Community area boundary	Species listed on Schedule 1 of the Wildlife and Countryside Act
County boundary	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
District/Borough boundary	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-310-L1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2:	Colwich to Yarlet

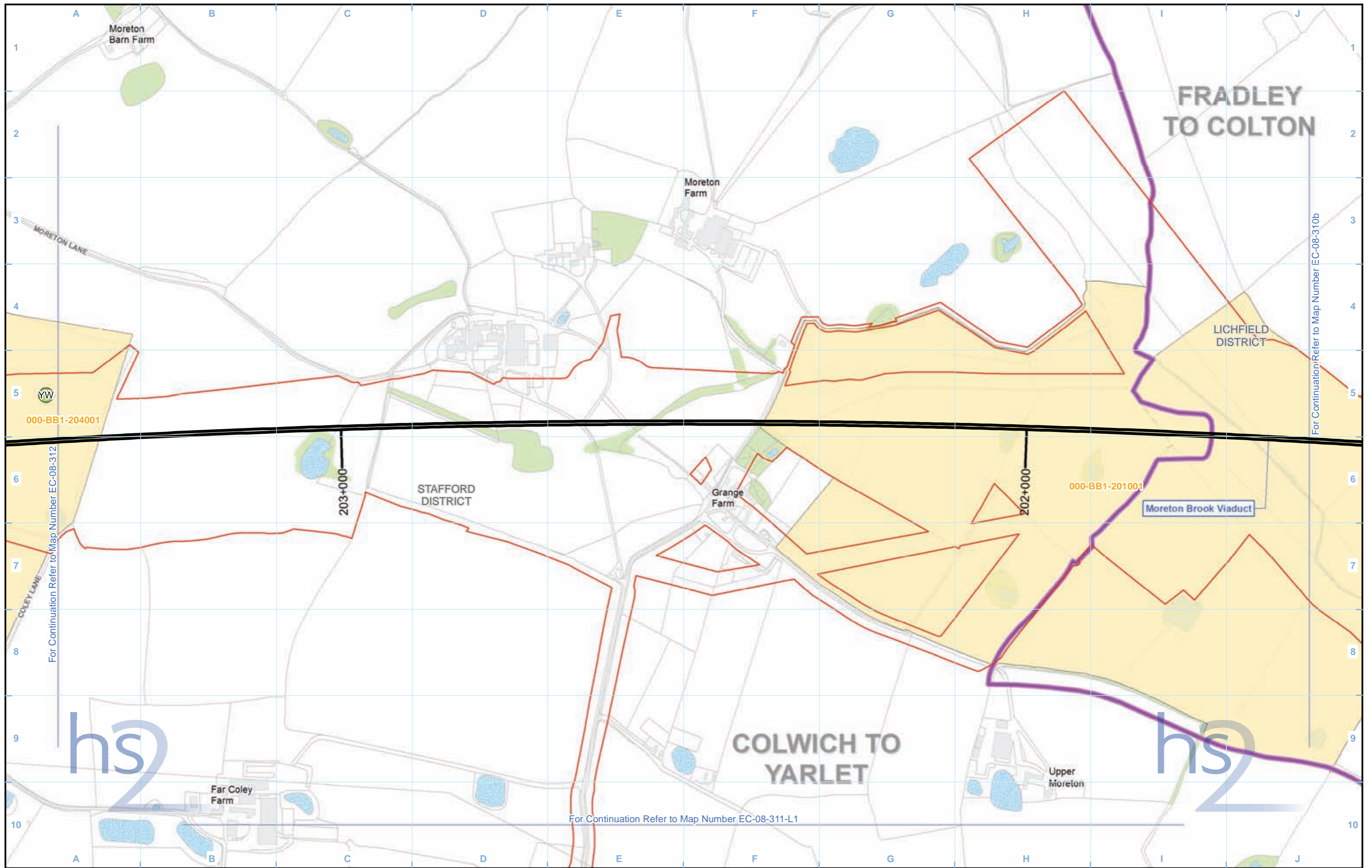
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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number: EC-08-311

Map Name: Breeding Birds - Protected and Notable Species

Community Area 2: Colwich to Yarlet

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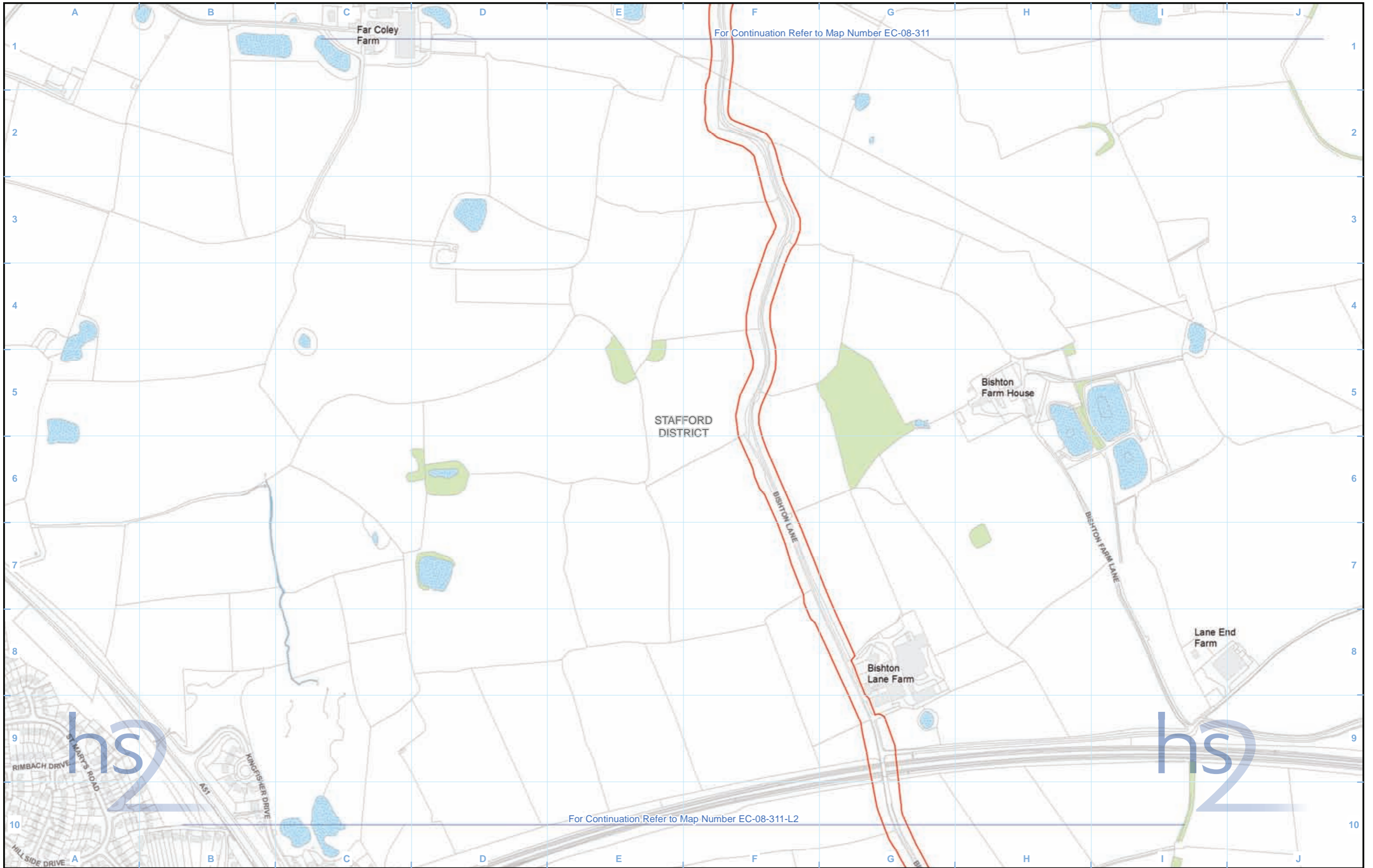
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-311

For Continuation Refer to Map Number EC-08-311-L2

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-311-L1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 2:
Colwich to Yarlet

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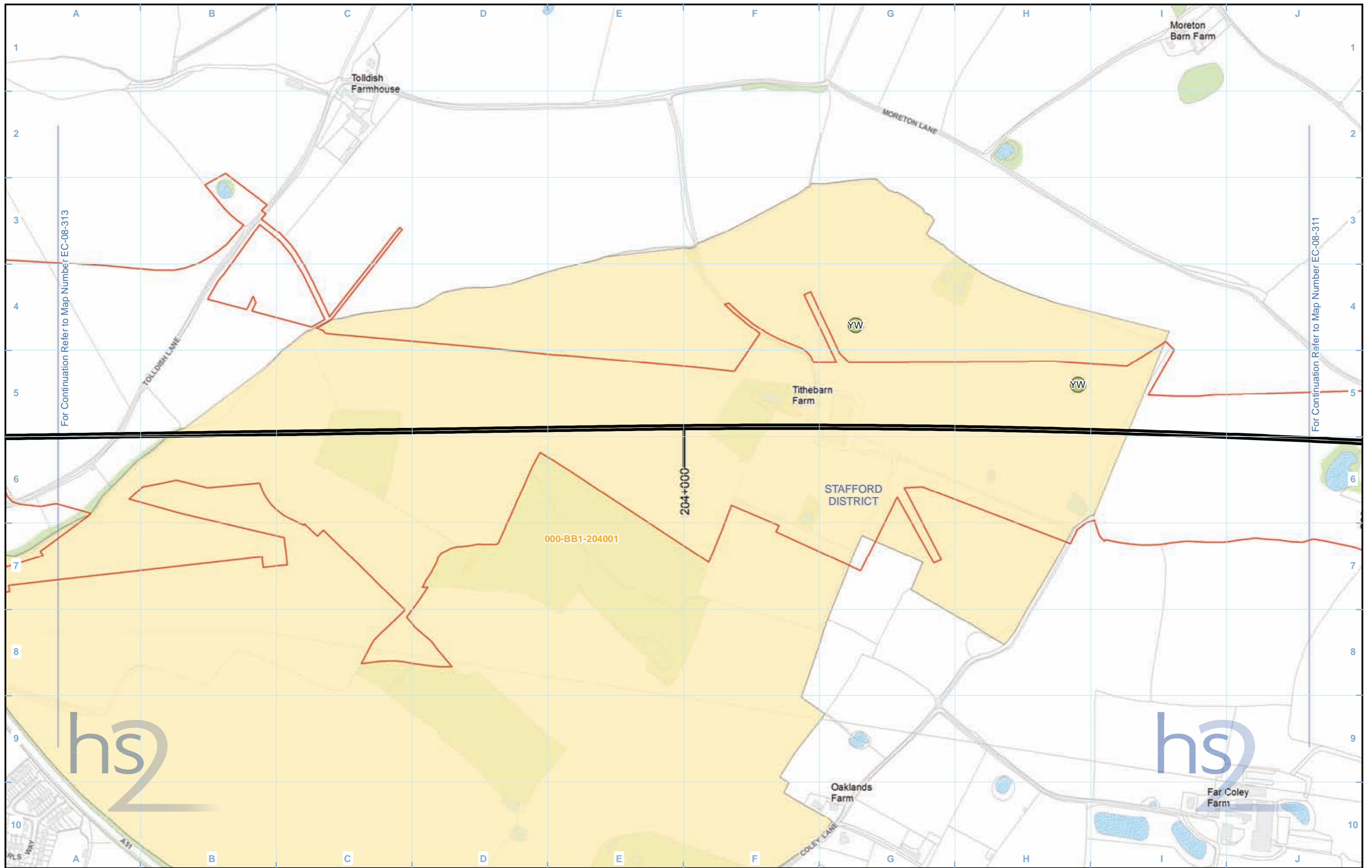
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Date: 14/06/17



Legend

<ul style="list-style-type: none"> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Breeding birds - survey extent
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Map Number **EC-08-312**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 2:
Colwich to Yarlet

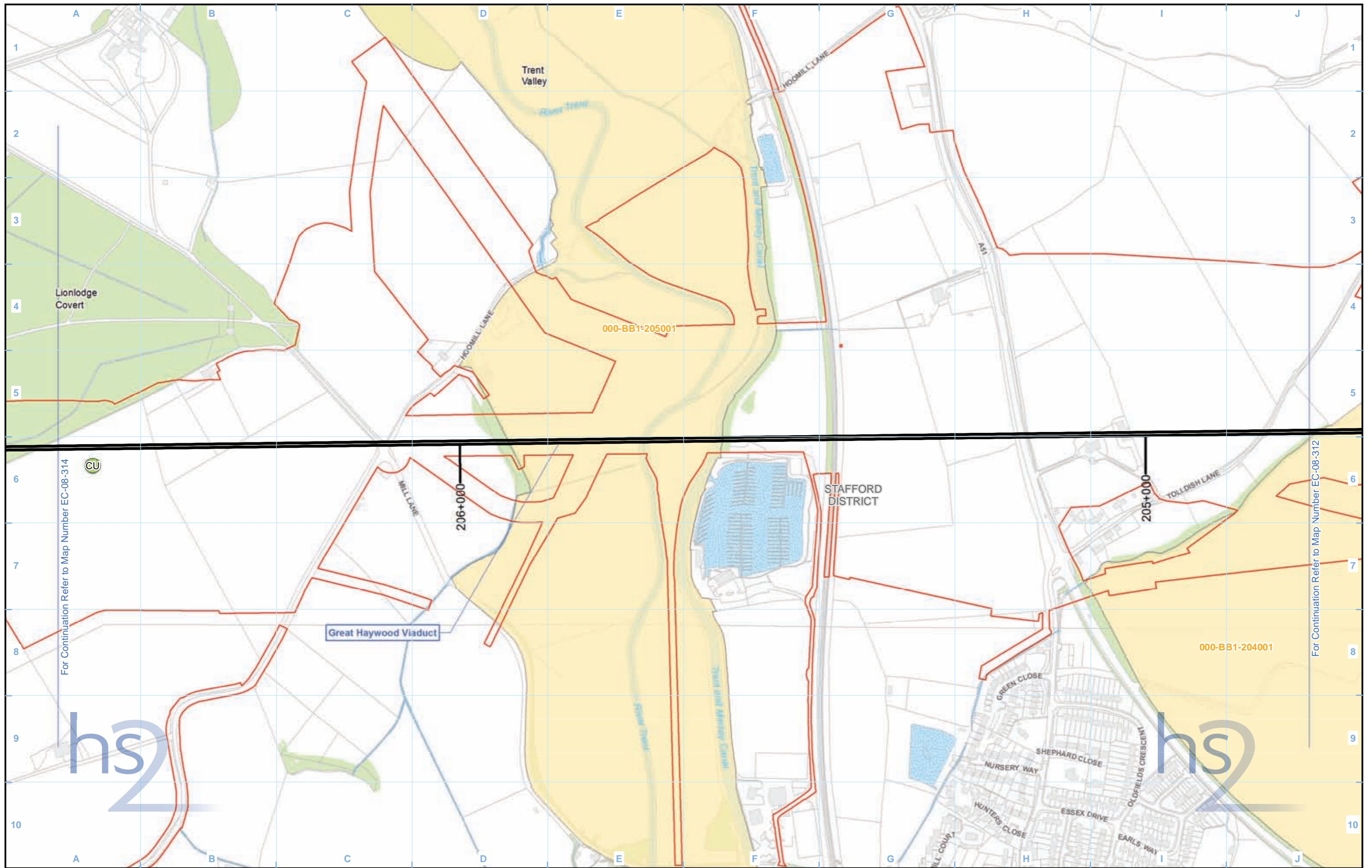
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent


Map Number	EC-08-313
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2: Colwich to Yarlet	

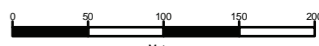

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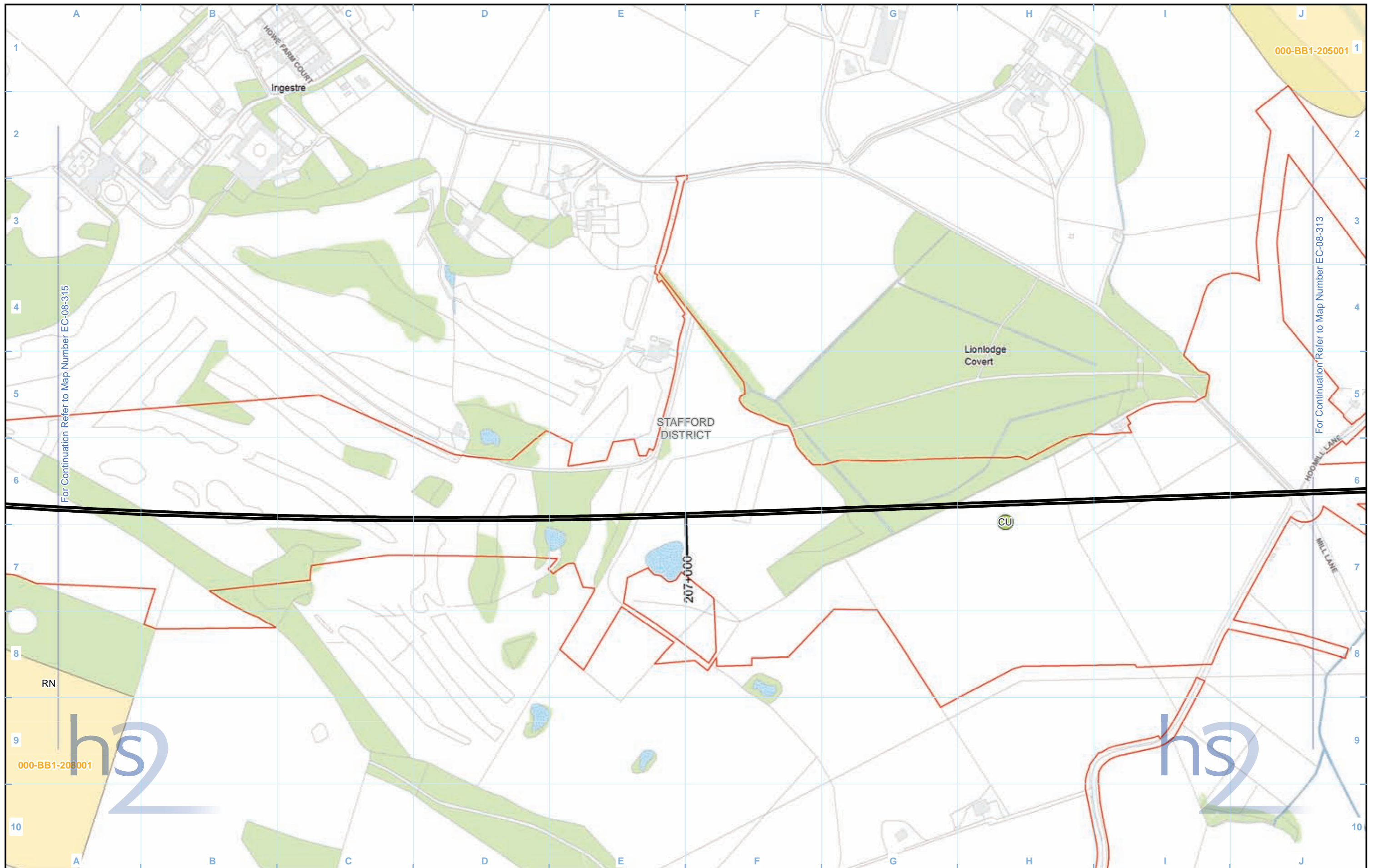
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Doc Number: C861-ARP-EV-MAP-000-078313-P03 Date: 14/06/17



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-314
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2: Colwich to Yarlet	

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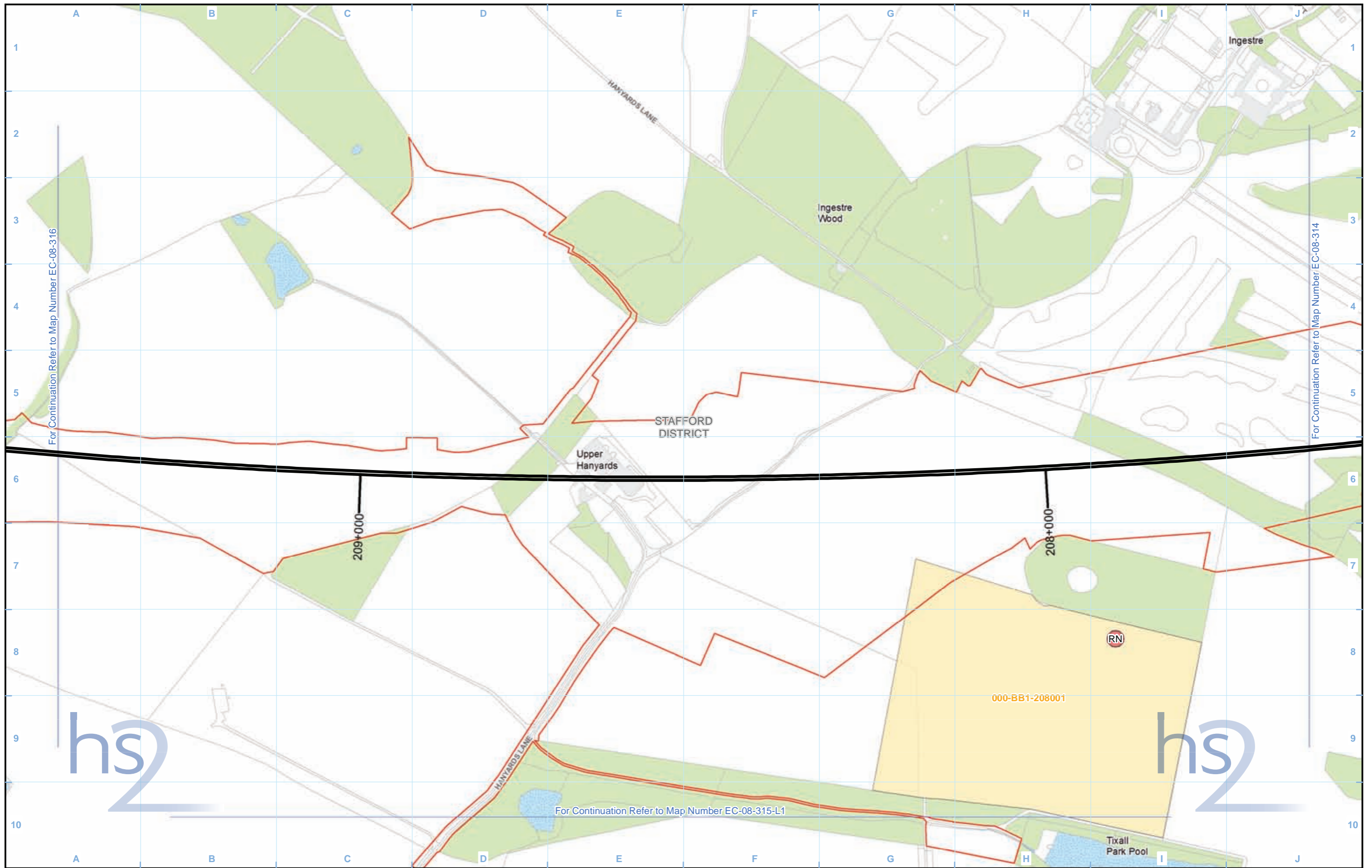
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Legend

Route in bored tunnel	Watercourse	Other notable species relevant to assessment - see Volume 5 Appendices	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act	Breeding birds - survey extent
Route on surface	Water body	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number: EC-08-315

Map Name: Breeding Birds - Protected and Notable Species

Community Area 2: Colwich to Yarlet

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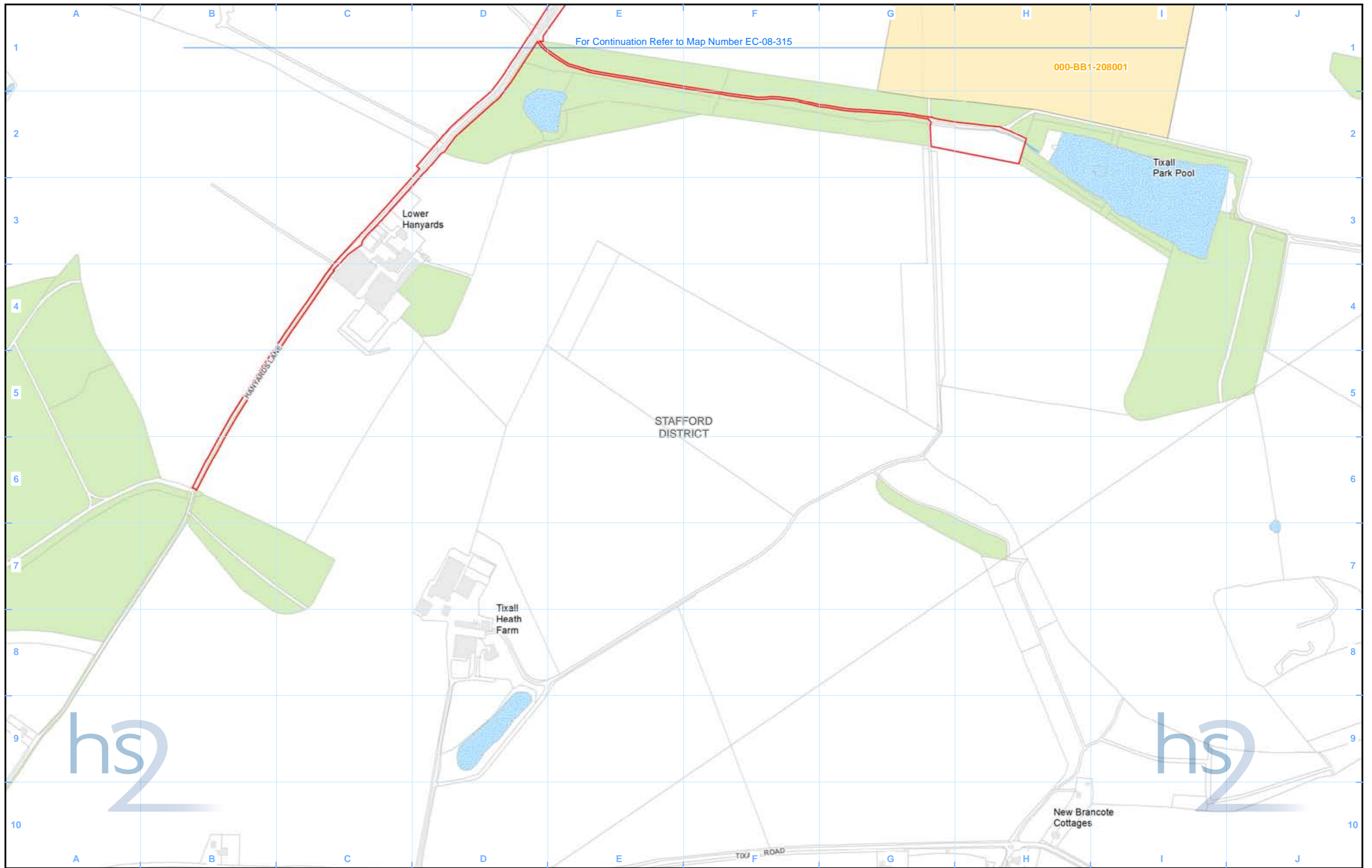
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-315

000-BB1-208001

Lower Hanyards

Tixall Park Pool

STAFFORD DISTRICT

Tixall Heath Farm

New Brancote Cottages

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-315-L1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2: Colwich to Yarlet	

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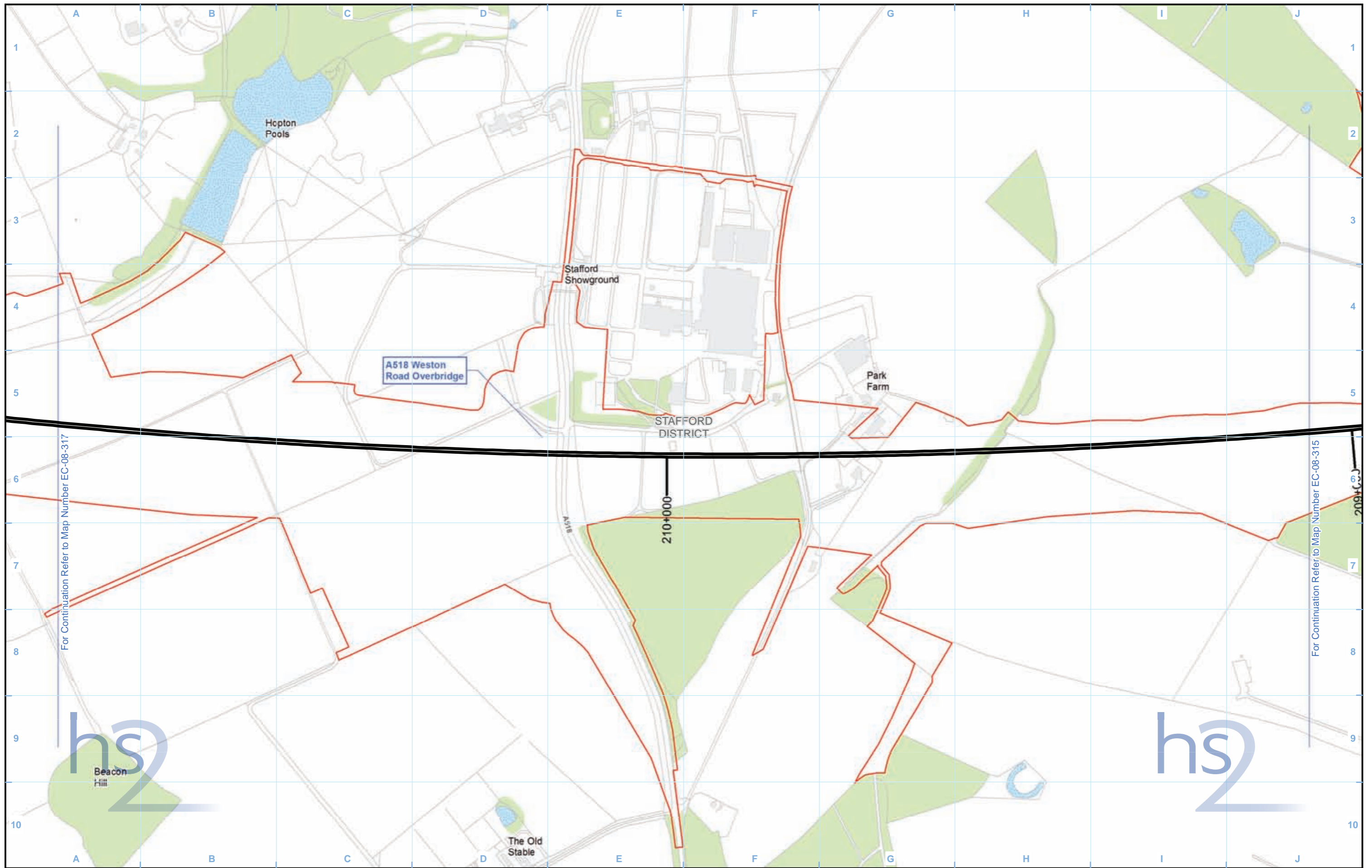
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Metres

Date: 14/06/17



For Continuation Refer to Map Number EC-08-317

For Continuation Refer to Map Number EC-08-315

Legend	
Route in bored tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland
Land potentially required during construction	Species listed on Annex I of the Birds Directive
Community area boundary	Species listed on Schedule 1 of the Wildlife and Countryside Act
County boundary	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
District/Borough boundary	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-316
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2: Colwich to Yarlet	

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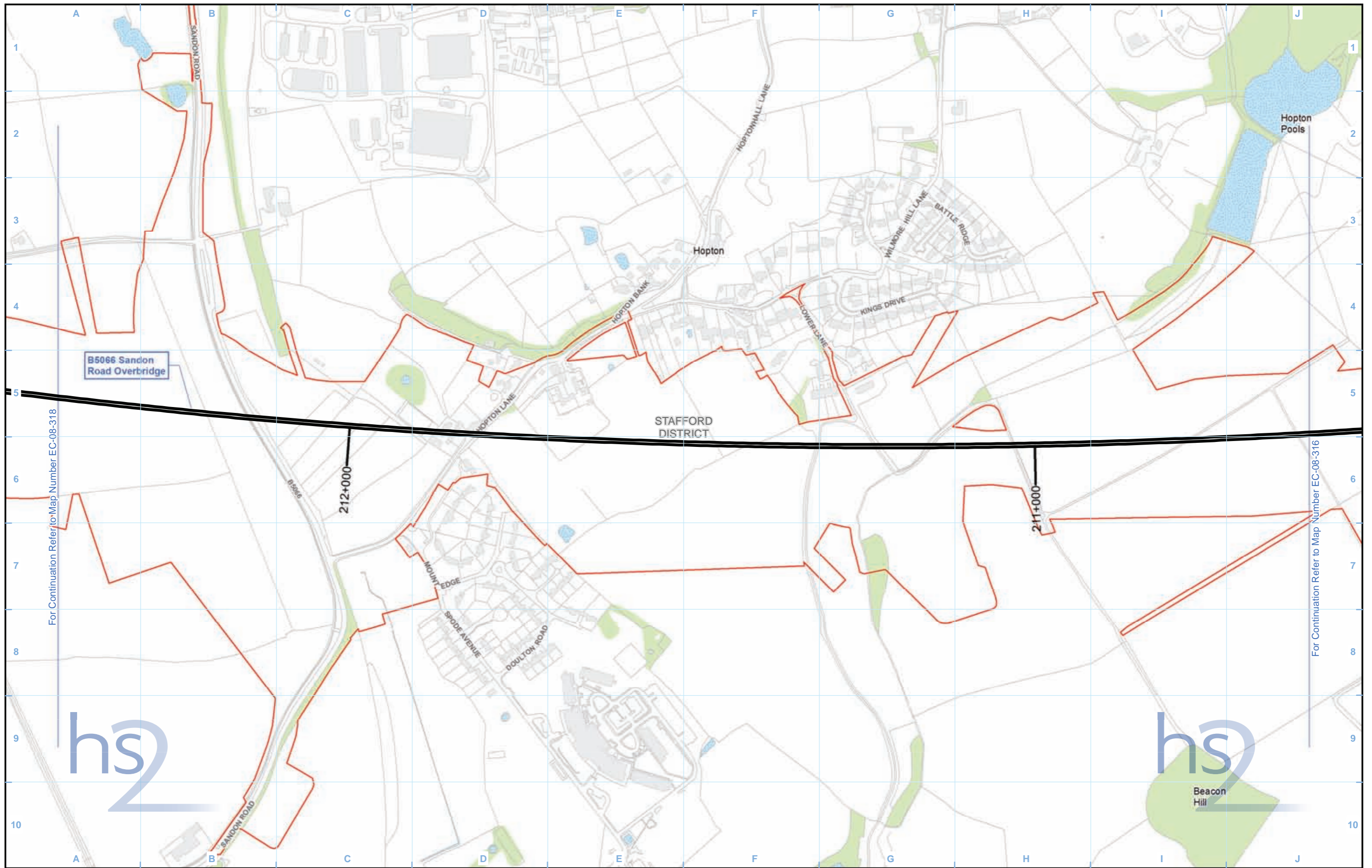
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Metres

Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-317

Map Name
Breeding Birds - Protected and Notable Species

Community Area 2:
Colwich to Yarlet

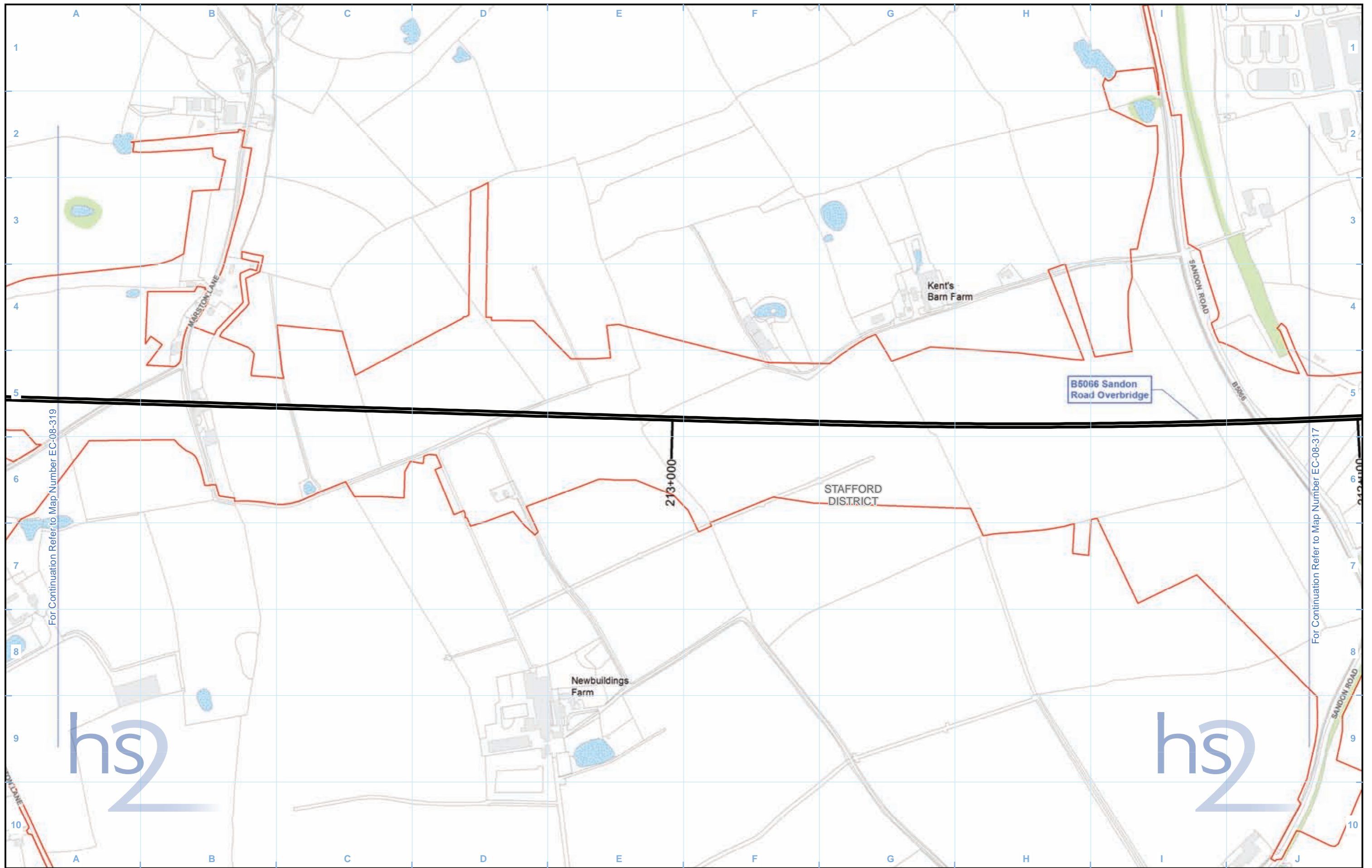
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-318
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2: Colwich to Yarlet	

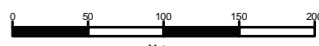



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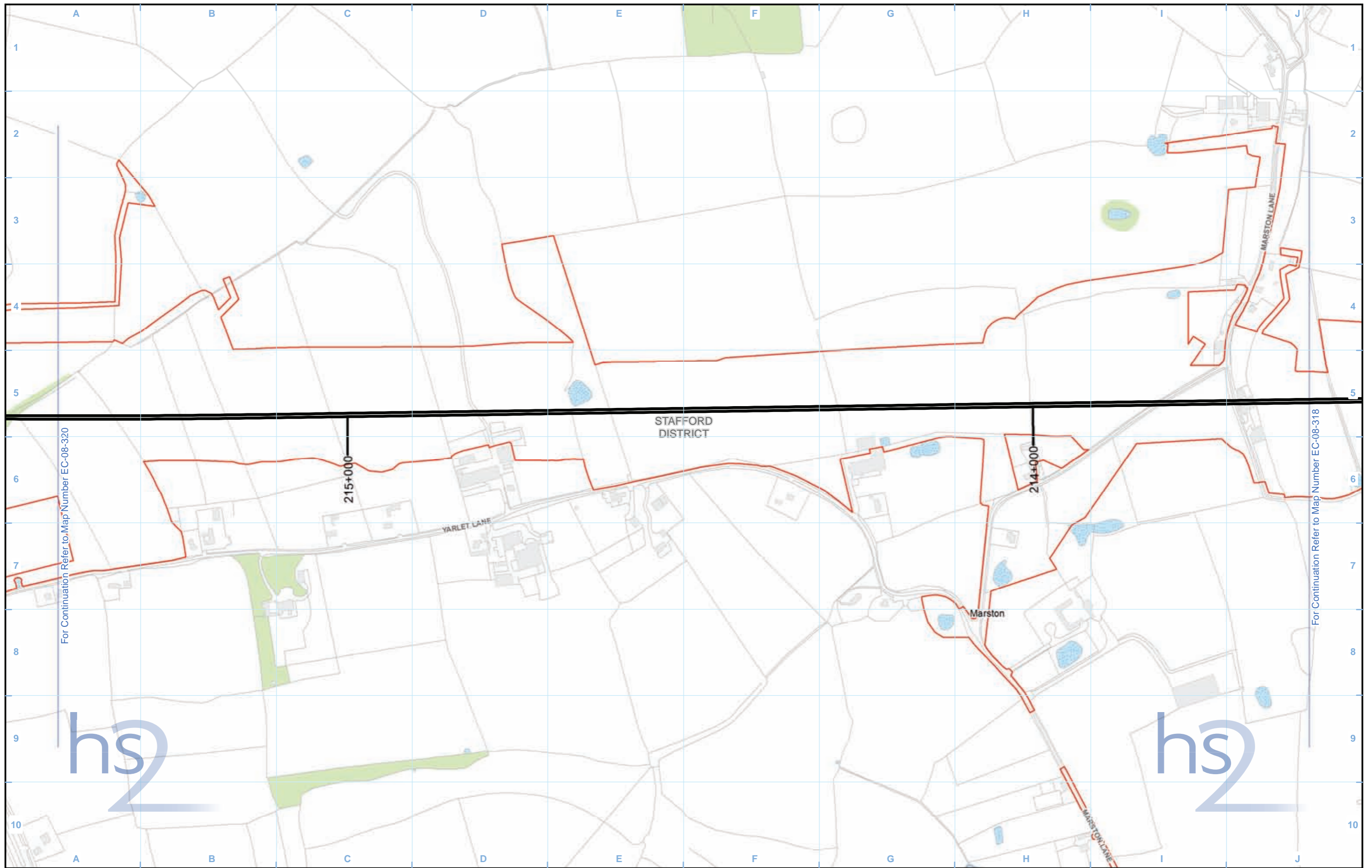
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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-319

Map Name
Breeding Birds - Protected and Notable Species

Community Area 2:
Colwich to Yarlet

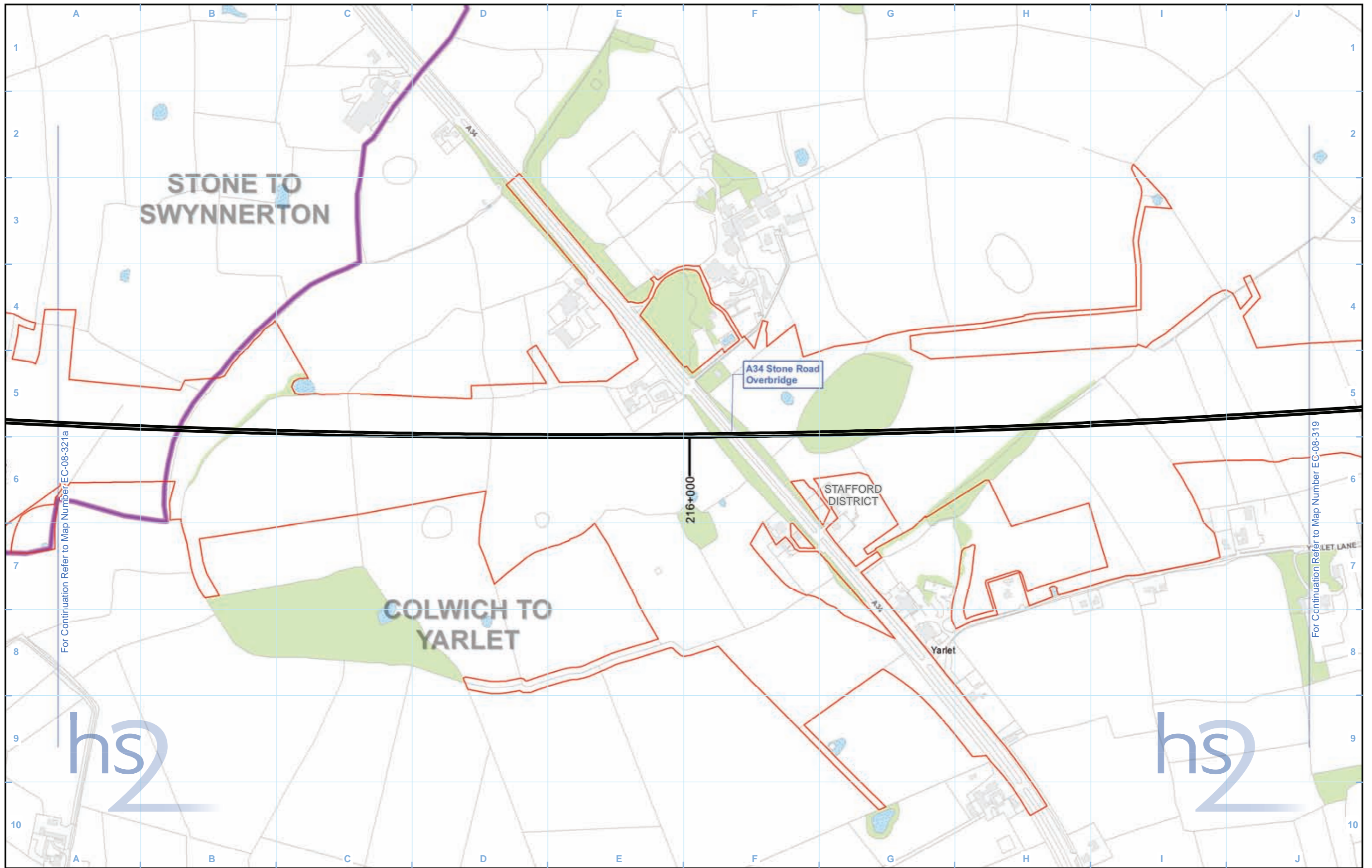
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For Continuation Refer to Map Number EC-08-321a

For Continuation Refer to Map Number EC-08-319

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Watercourse
	Water body
	Woodland
	Breeding birds - survey extent

Map Number	EC-08-320
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2: Colwich to Yarlet	

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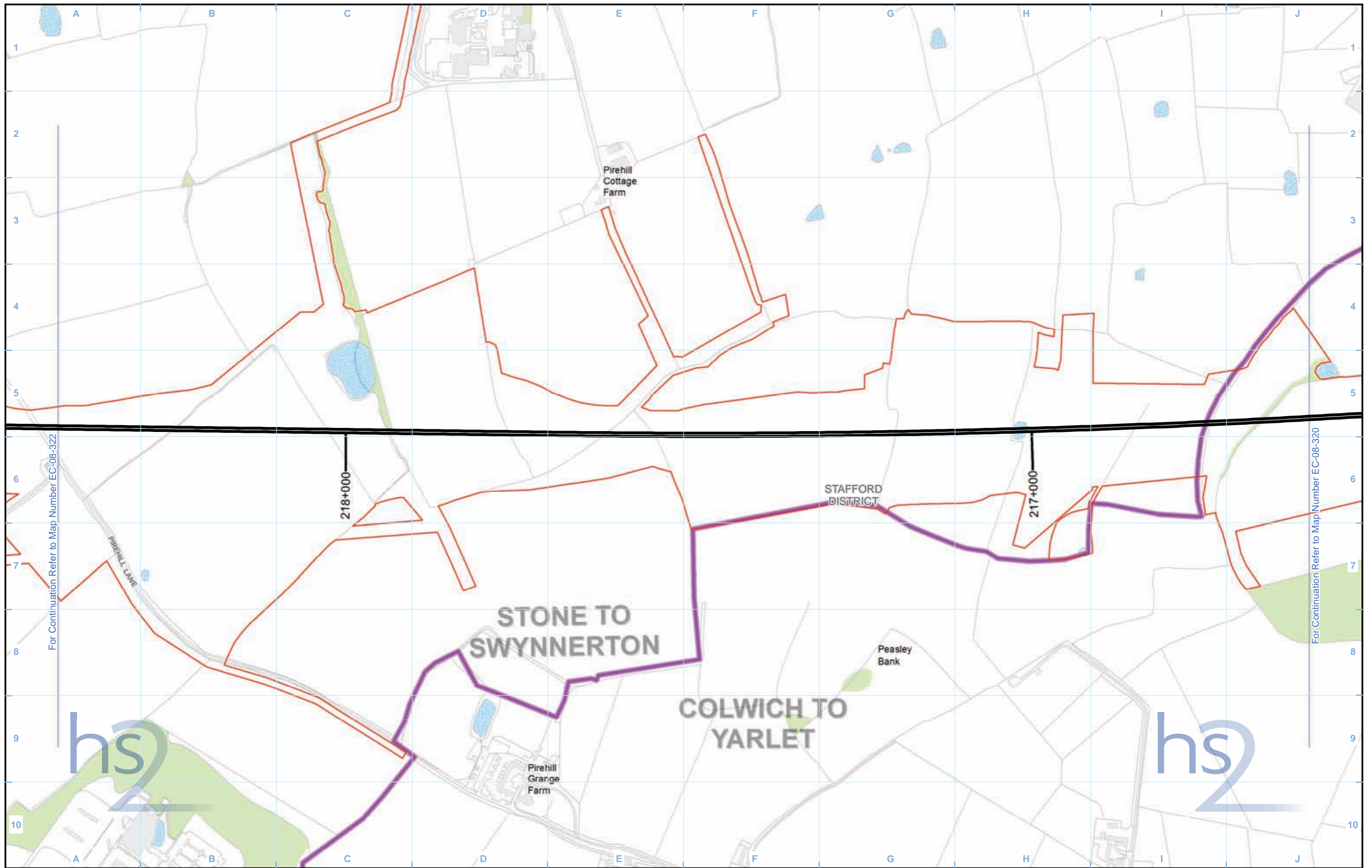
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Date: 14/06/17



Legend

<ul style="list-style-type: none"> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Breeding birds - survey extent
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Map Number	EC-08-321a
Map Name	Breeding Birds - Protected and Notable Species
Community Area 2: Colwich to Yarlet	

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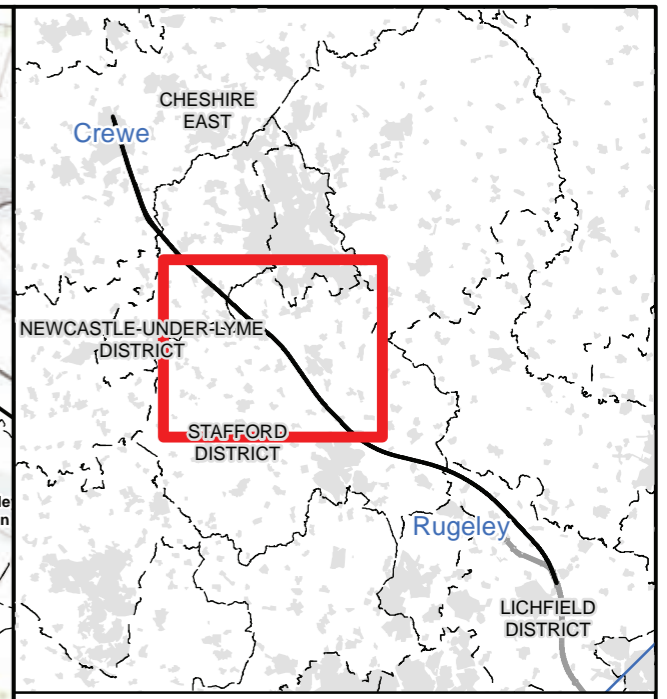
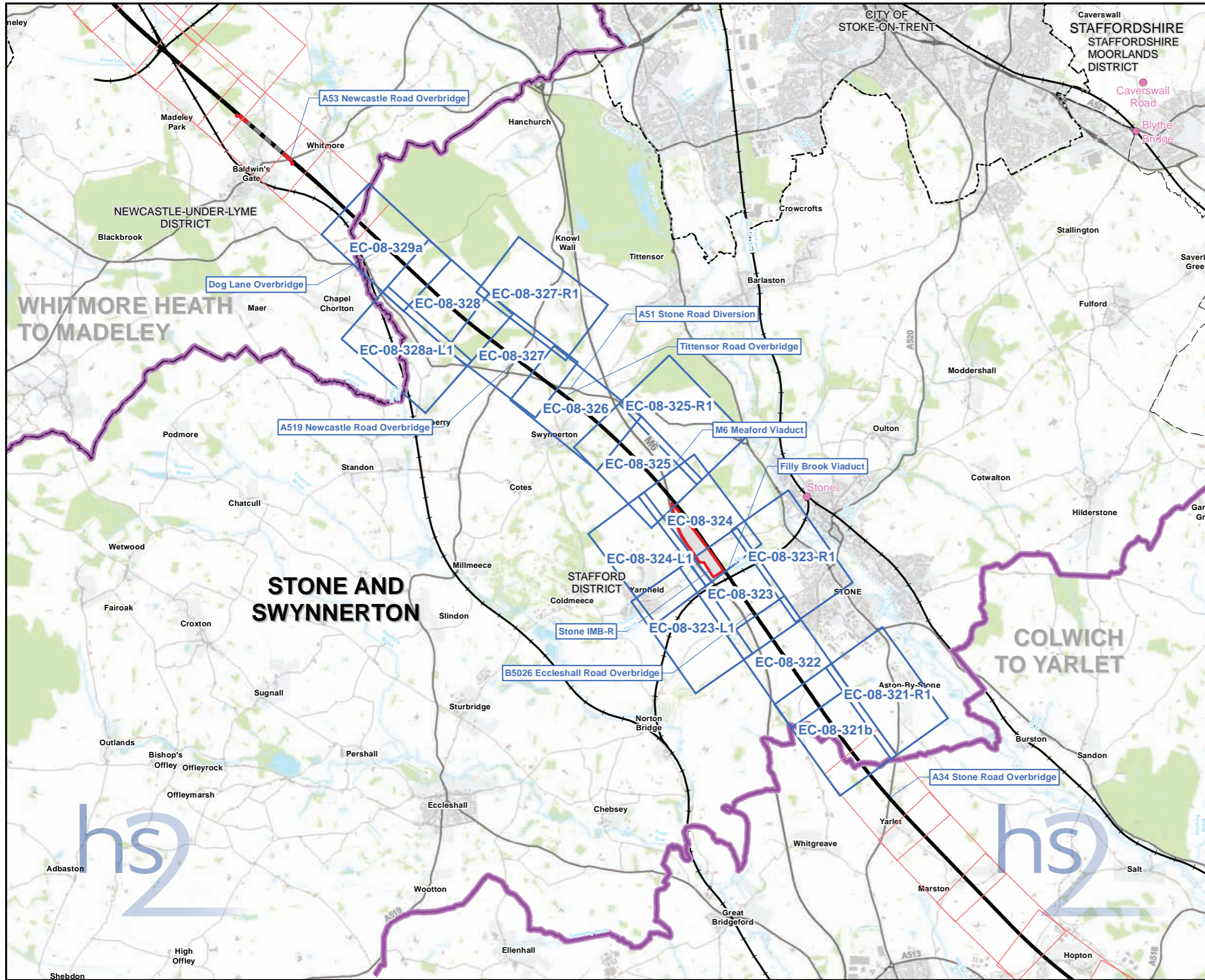
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Metres

Date: 14/06/17

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Map Series Information:

This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.

Main Map Legend

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

Map Number	EC-08-INDEX-CA3
Map Name	Index Map of: Breeding Birds – Protected and Notable Species
	Community Area 3: Stone and Swynnerton

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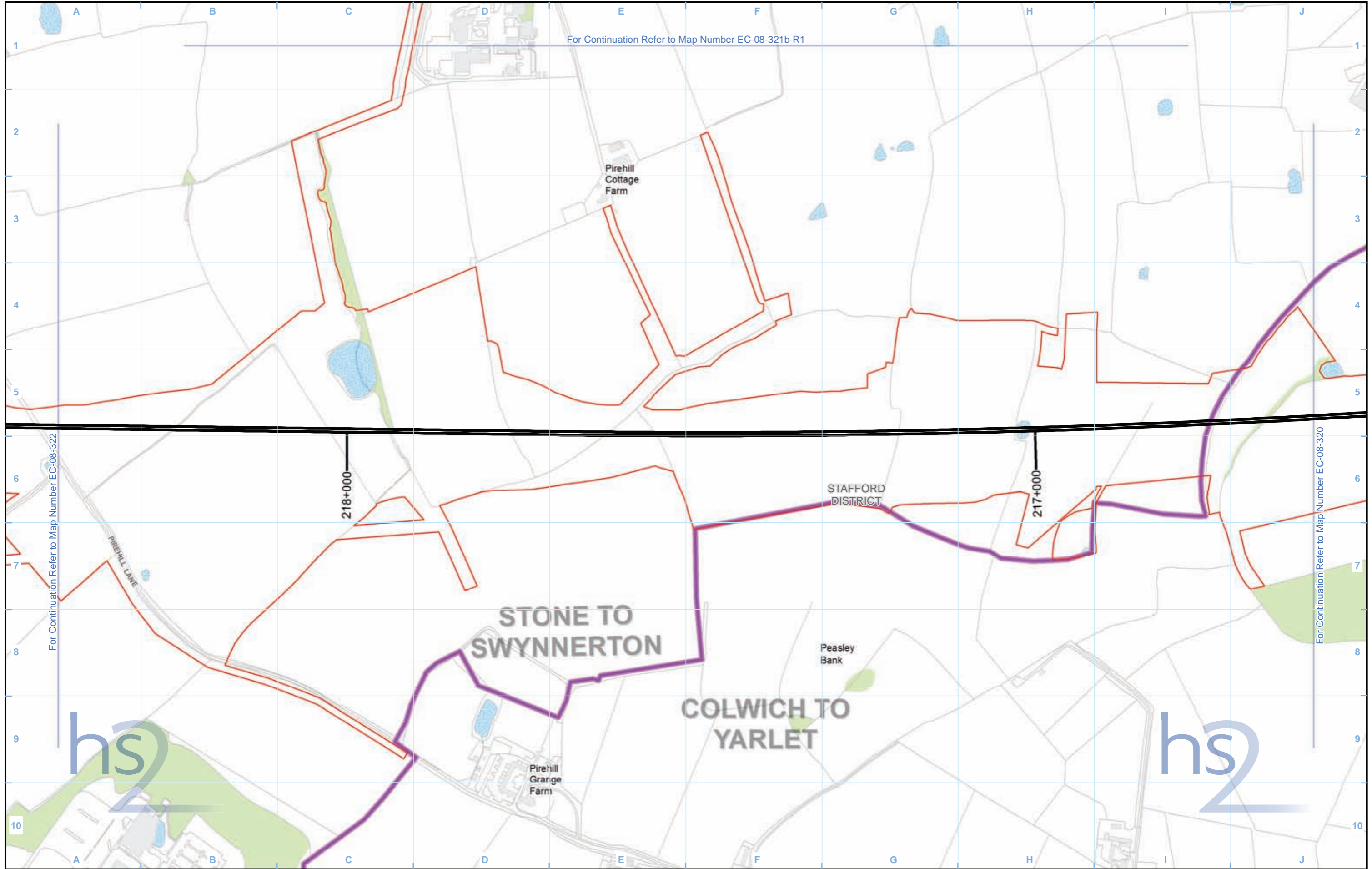
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For Continuation Refer to Map Number EC-08-321b-R1

For Continuation Refer to Map Number EC-08-322

For Continuation Refer to Map Number EC-08-320

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-321b
Map Name	Breeding Birds - Protected and Notable Species
Community Area 3: Stone and Swynnerton	

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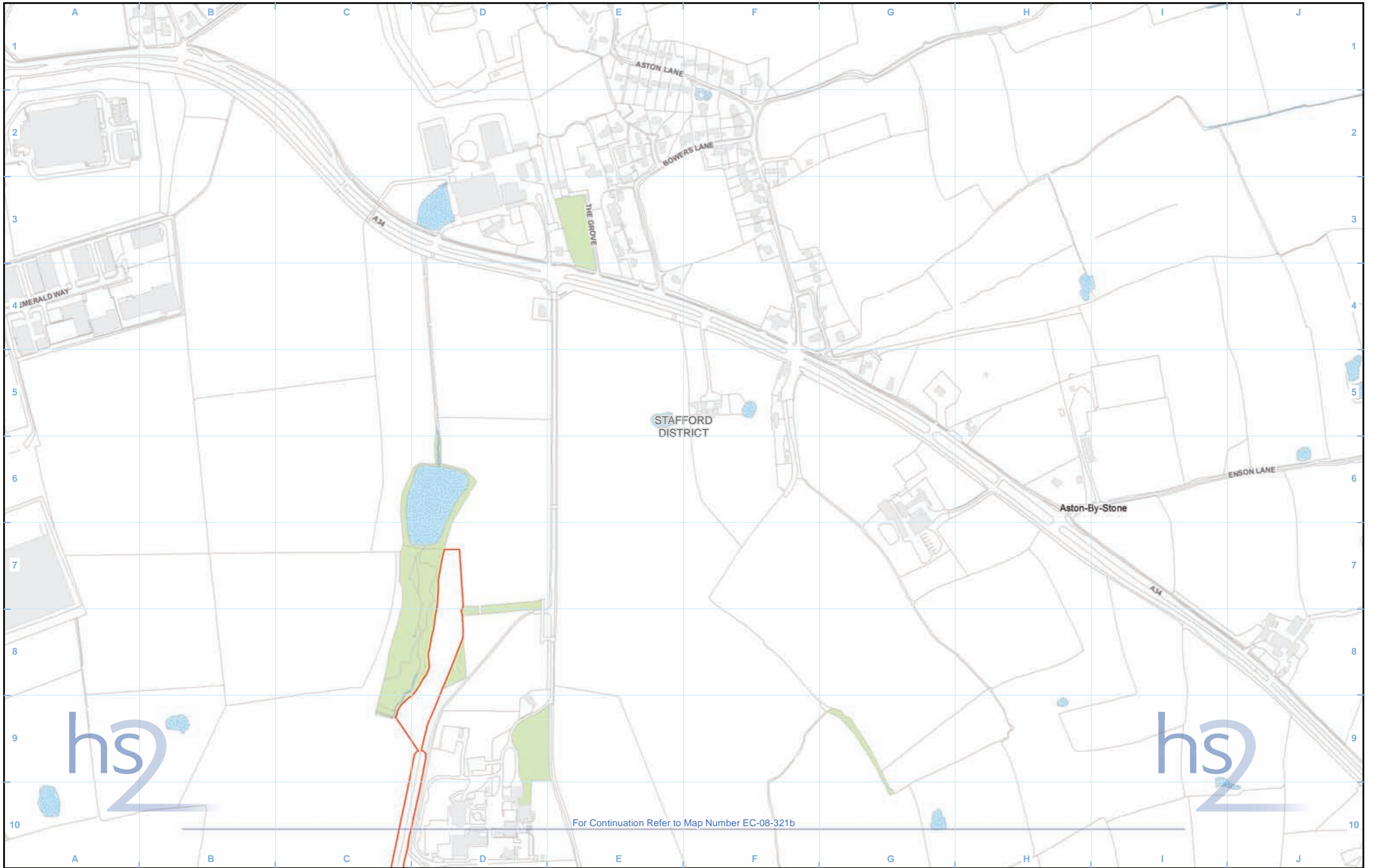
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Metres

Date: 14/06/17

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For Continuation Refer to Map Number EC-08-321b

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-321-R1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

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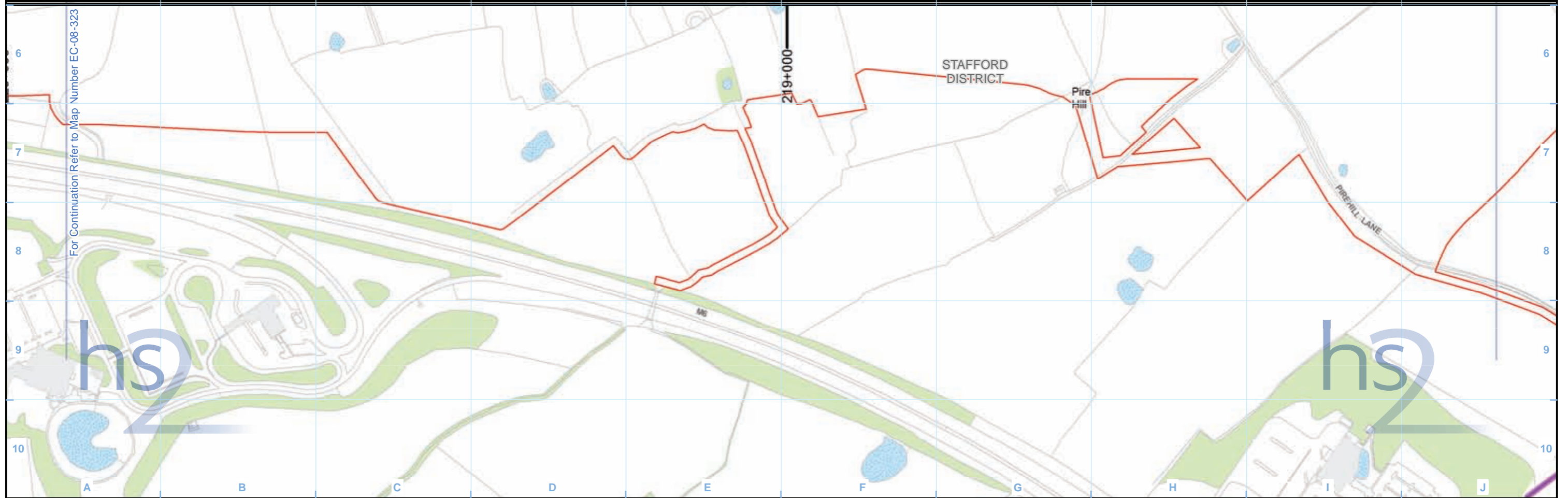
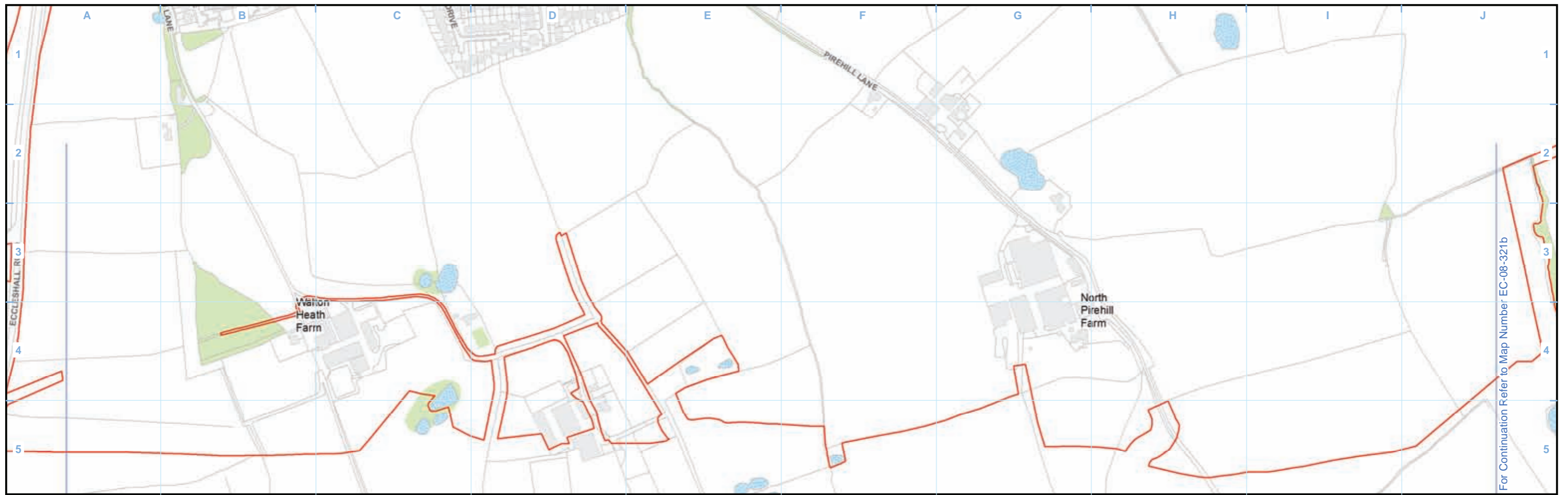
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Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent


Map Number	EC-08-322
Map Name	Breeding Birds - Protected and Notable Species
Community Area 3: Stone and Swynnerton	

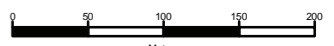

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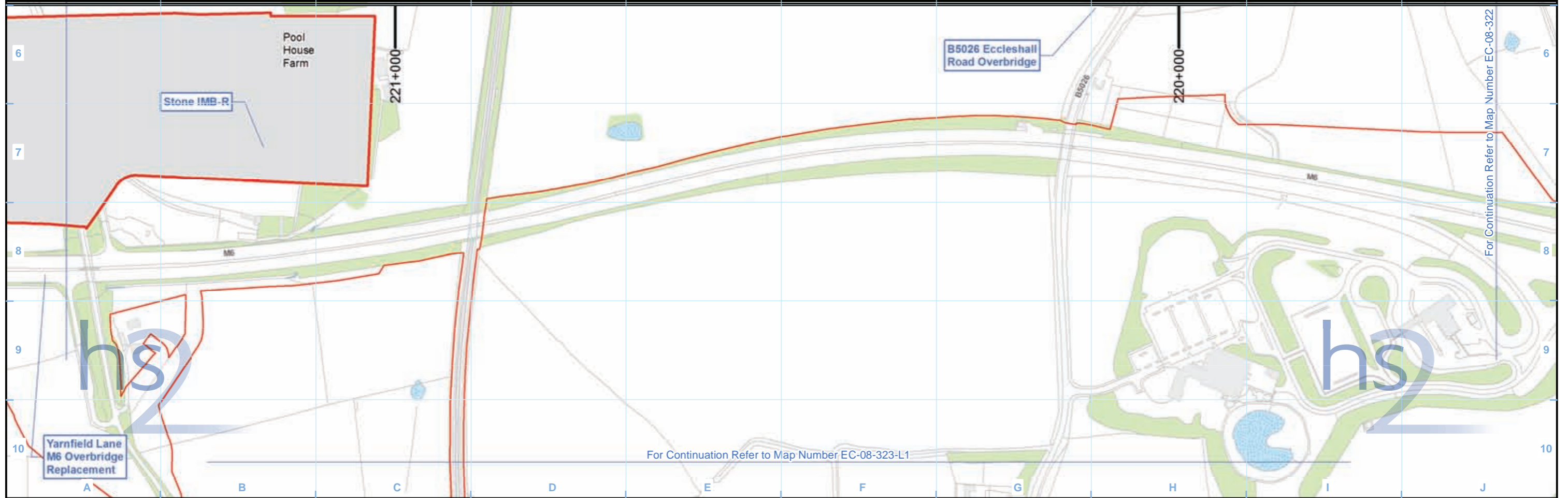
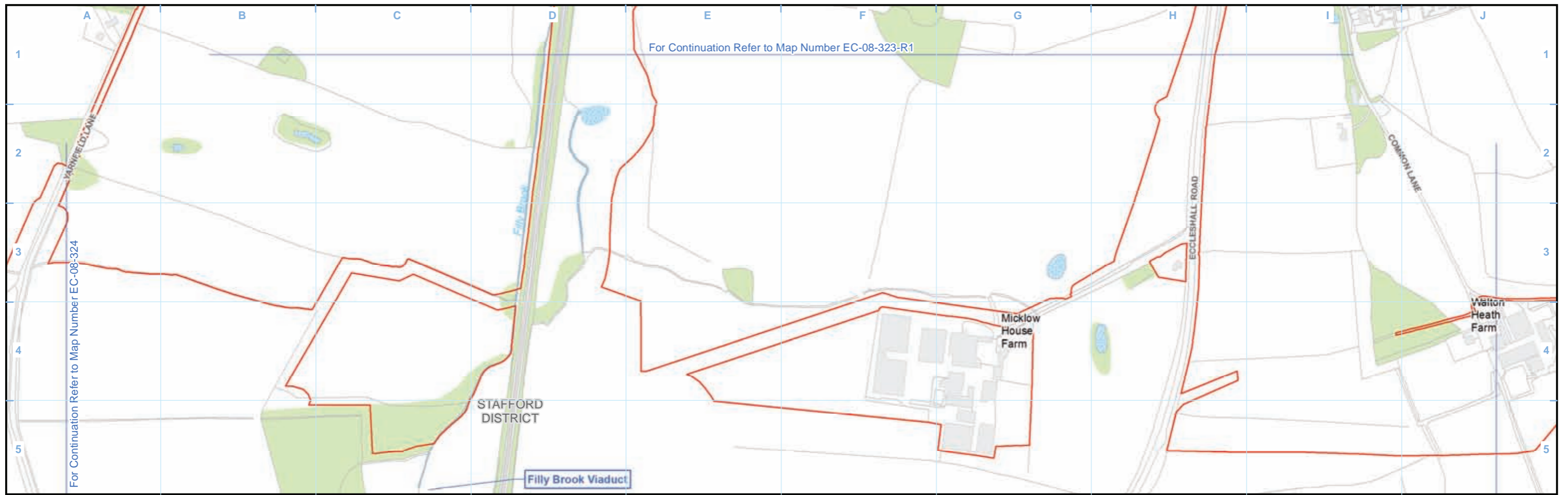
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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-323

Map Name
Breeding Birds - Protected and Notable Species

Community Area 3:
Stone and Swynnerton

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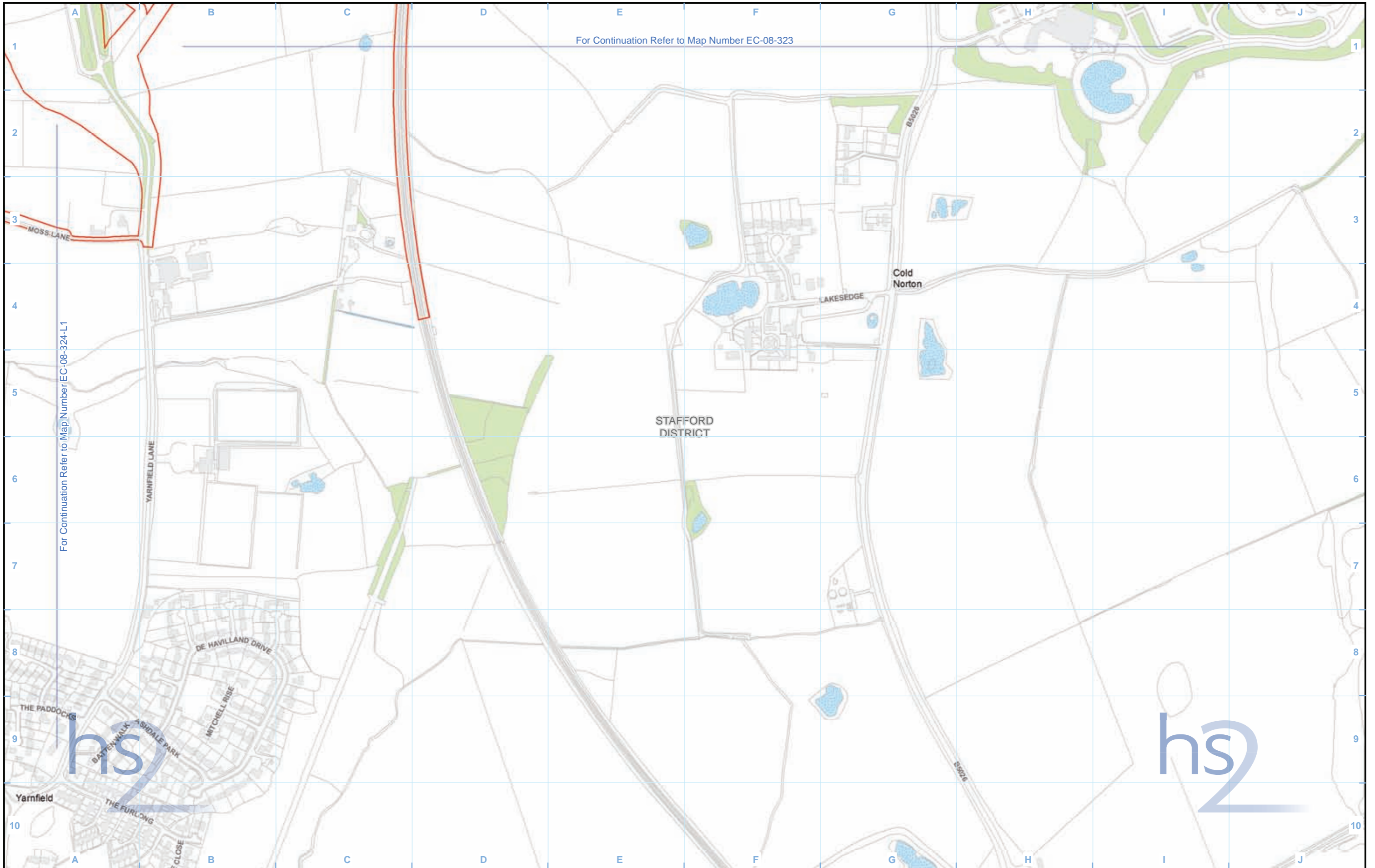
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For Continuation Refer to Map Number EC-08-323



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-323-L1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

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For Continuation Refer to Map Number EC-08-323

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-323-R1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

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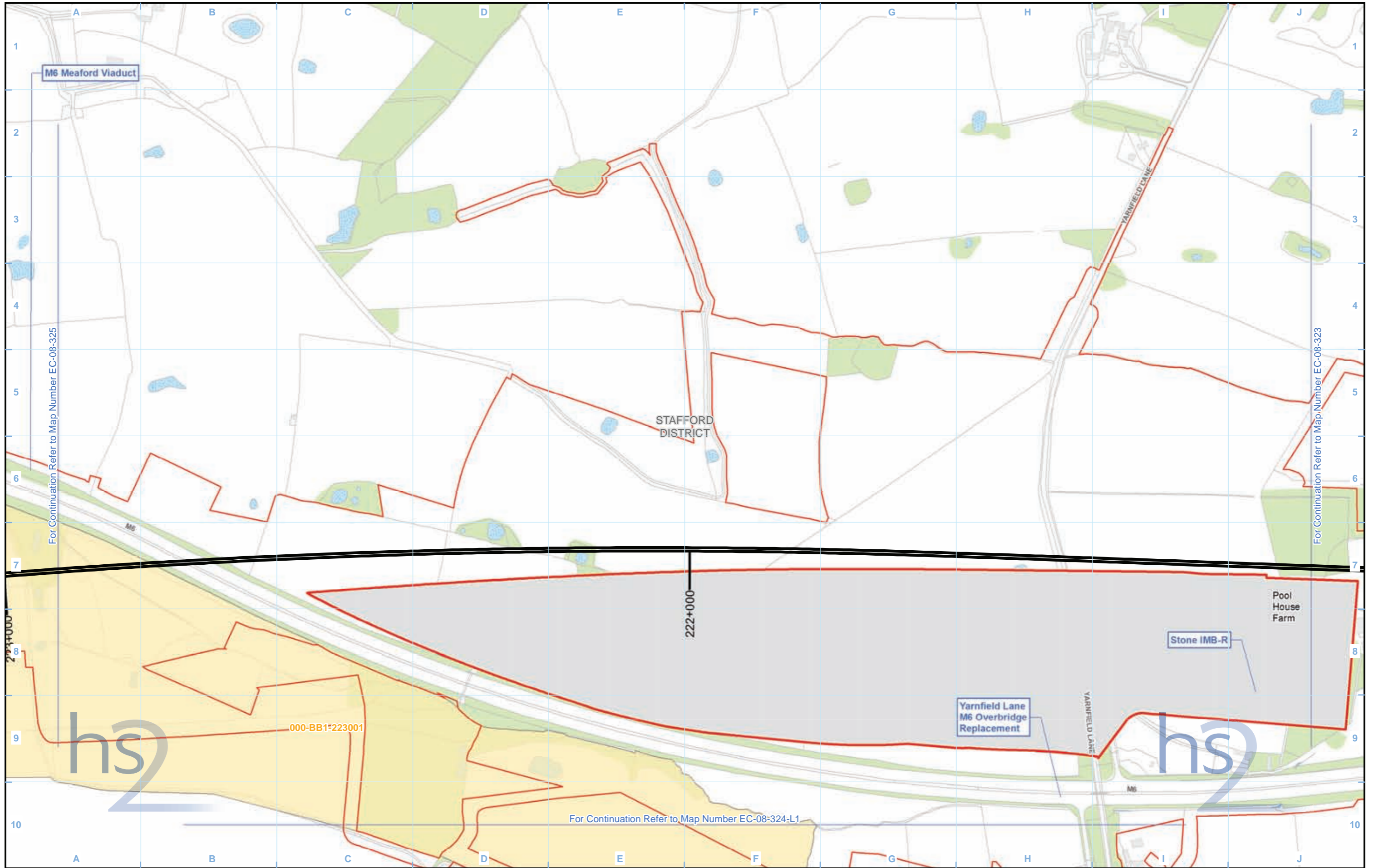
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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number: EC-08-324

Map Name: Breeding Birds - Protected and Notable Species

Community Area 3: Stone and Swynnerton

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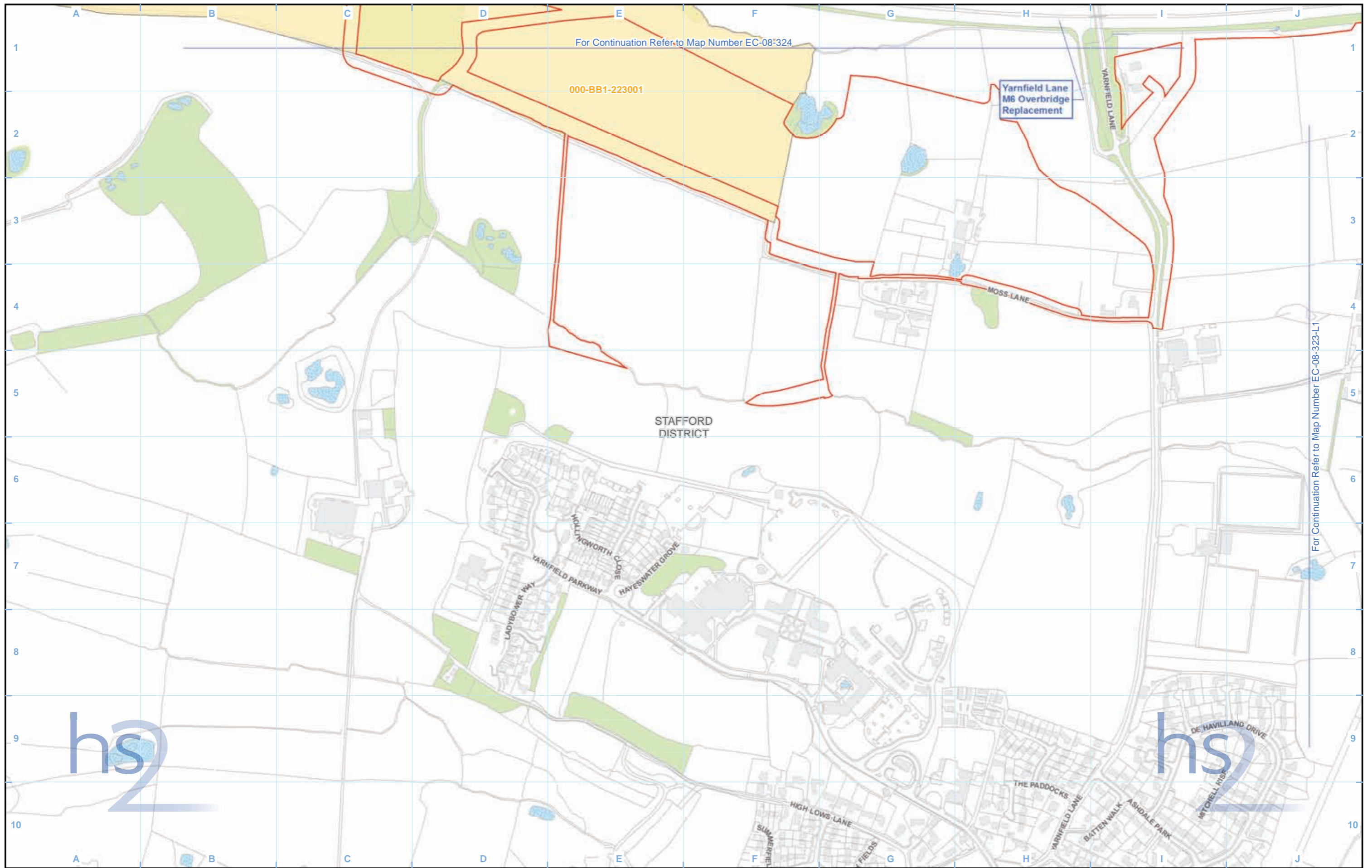
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-324

000-BB1-223001

Yarnfield Lane
M6 Overbridge
Replacement

STAFFORD
DISTRICT

For Continuation Refer to Map Number EC-08-323-L1

Legend	
Route in bored tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland
Land potentially required during construction	Species listed on Annex I of the Birds Directive
Community area boundary	Species listed on Schedule 1 of the Wildlife and Countryside Act
County boundary	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
District/Borough boundary	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-324-L1
Map Name	Breeding Birds - Protected and Notable Species
	Community Area 3: Stone and Swynnerton

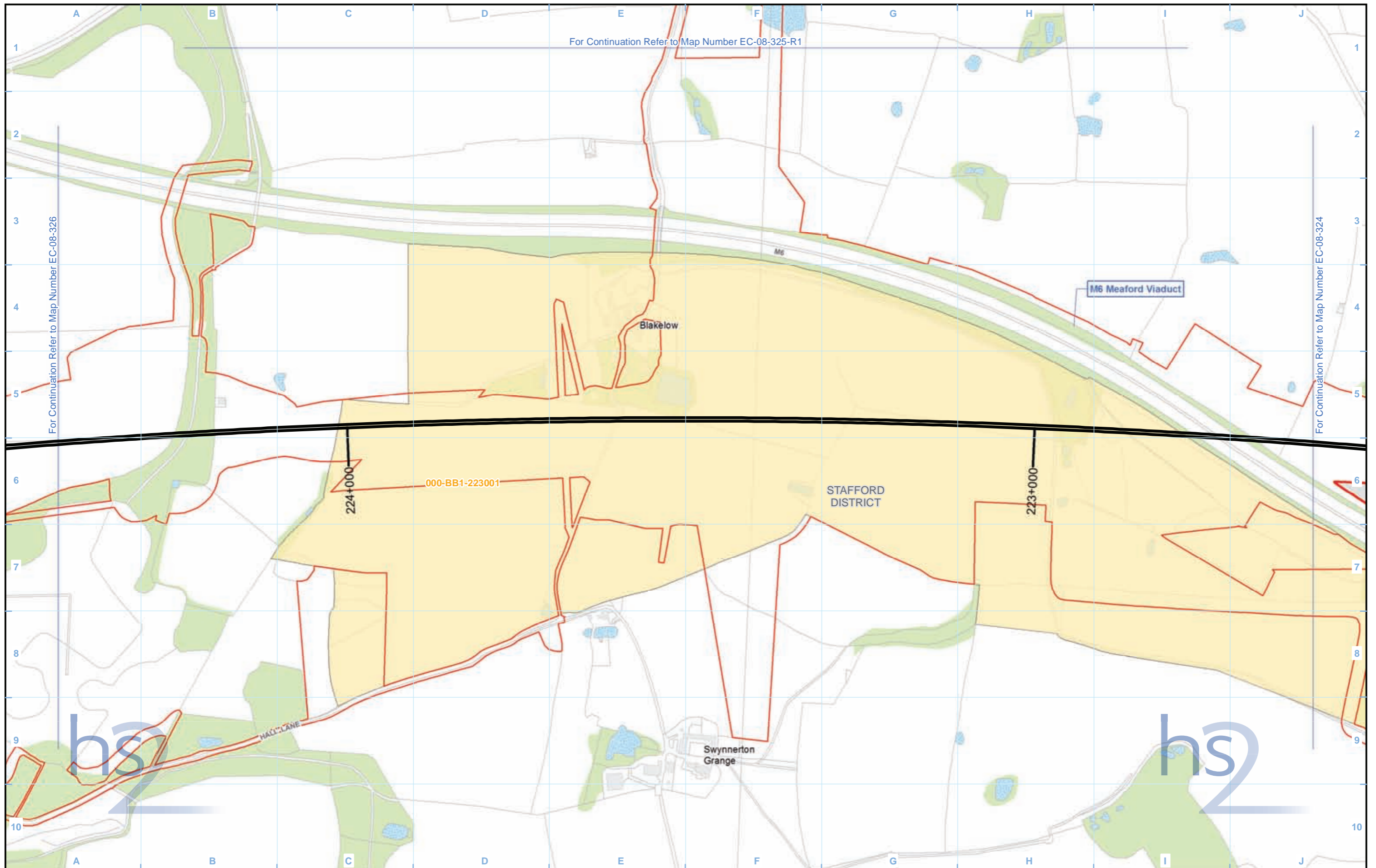
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For Continuation Refer to Map Number EC-08-325-R1

For Continuation Refer to Map Number EC-08-326

For Continuation Refer to Map Number EC-08-324

Legend	
Route in bored tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland
Land potentially required during construction	Species listed on Annex I of the Birds Directive
Community area boundary	Species listed on Schedule 1 of the Wildlife and Countryside Act
County boundary	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
District/Borough boundary	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-325
Map Name	Breeding Birds - Protected and Notable Species
Community Area 3: Stone and Swynnerton	

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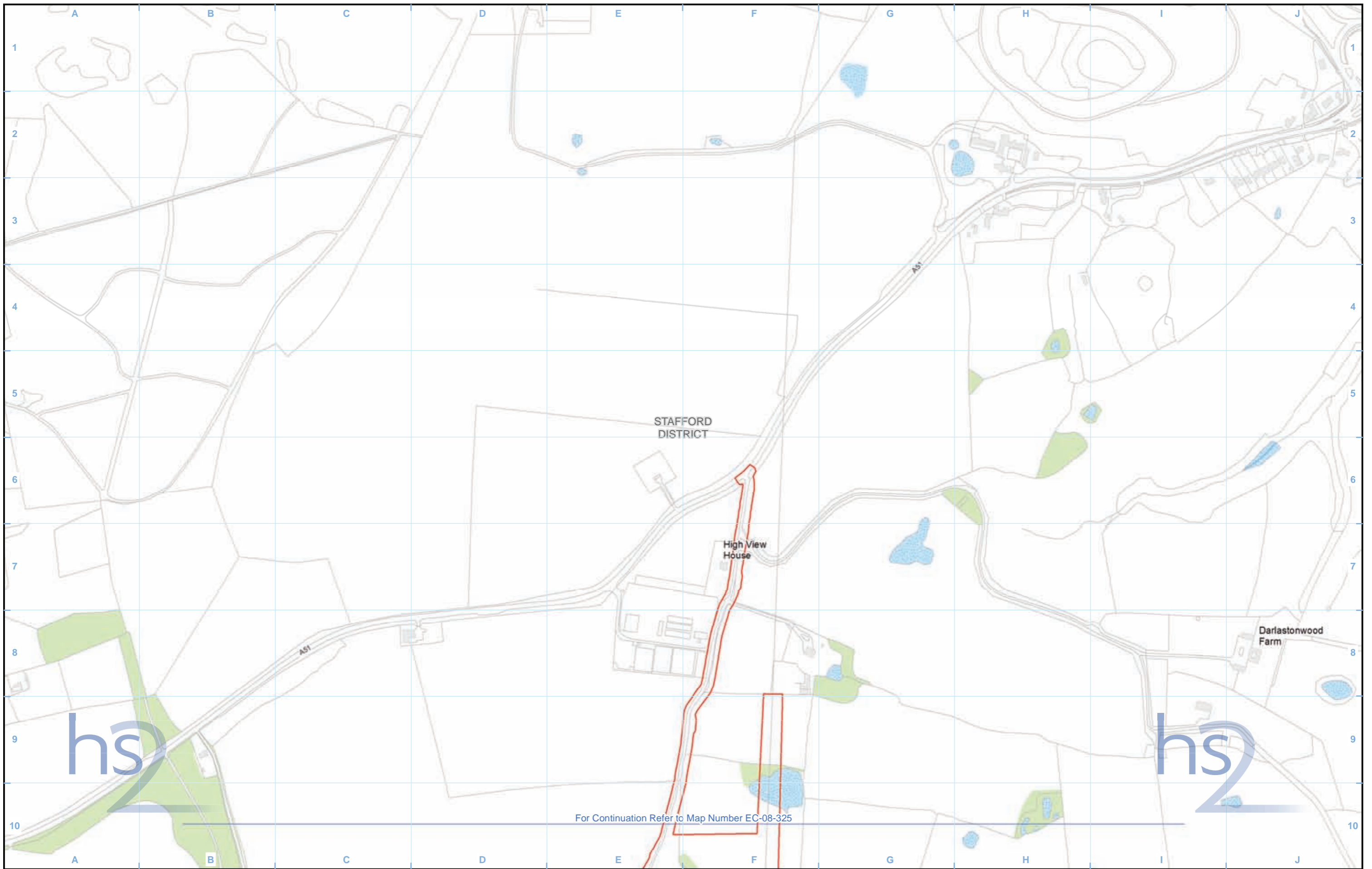
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For Continuation Refer to Map Number EC-08-325

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-325-R1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 3: Stone and Swynnerton	

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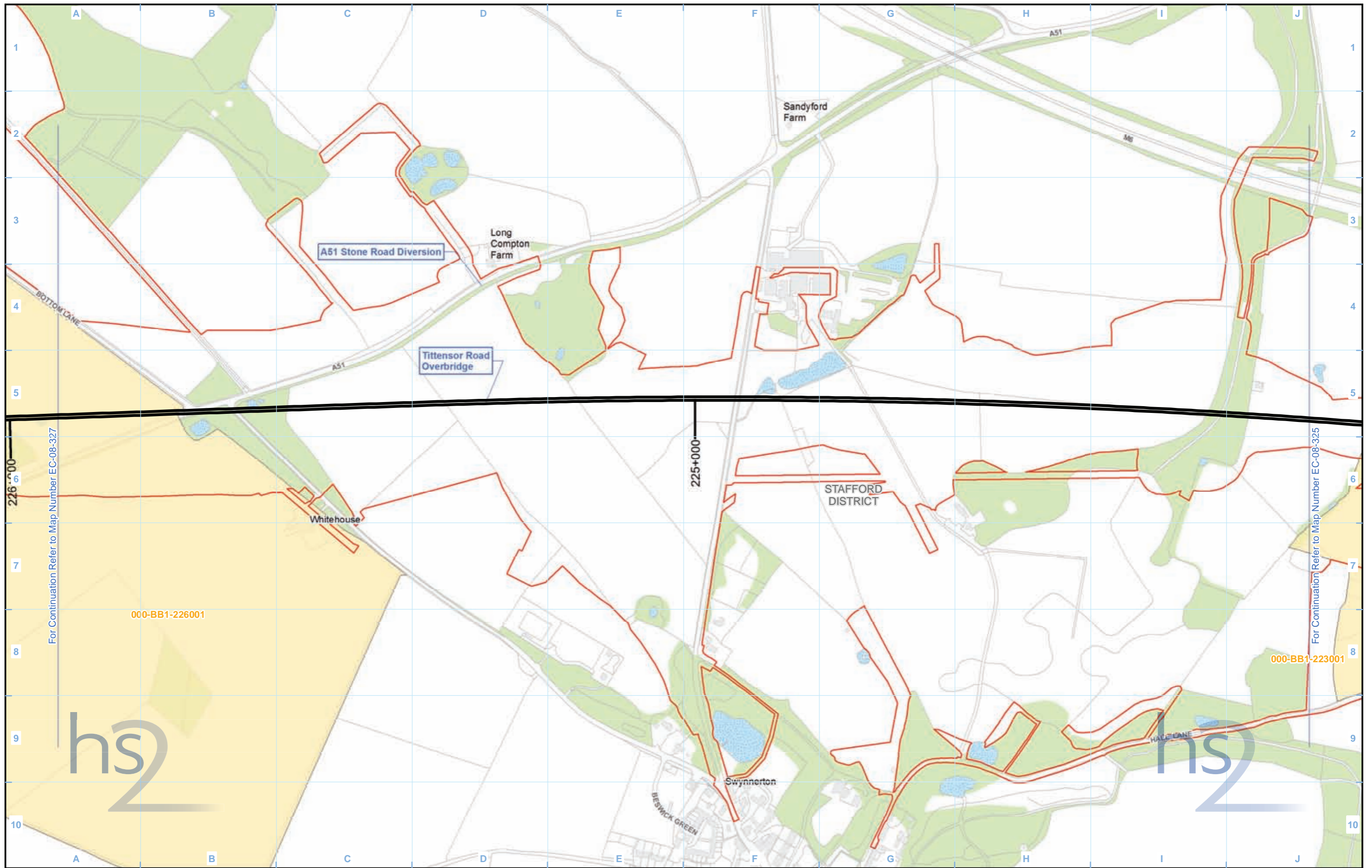
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Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-326

Map Name
Breeding Birds - Protected and Notable Species

Community Area 3:
Stone and Swynnerton

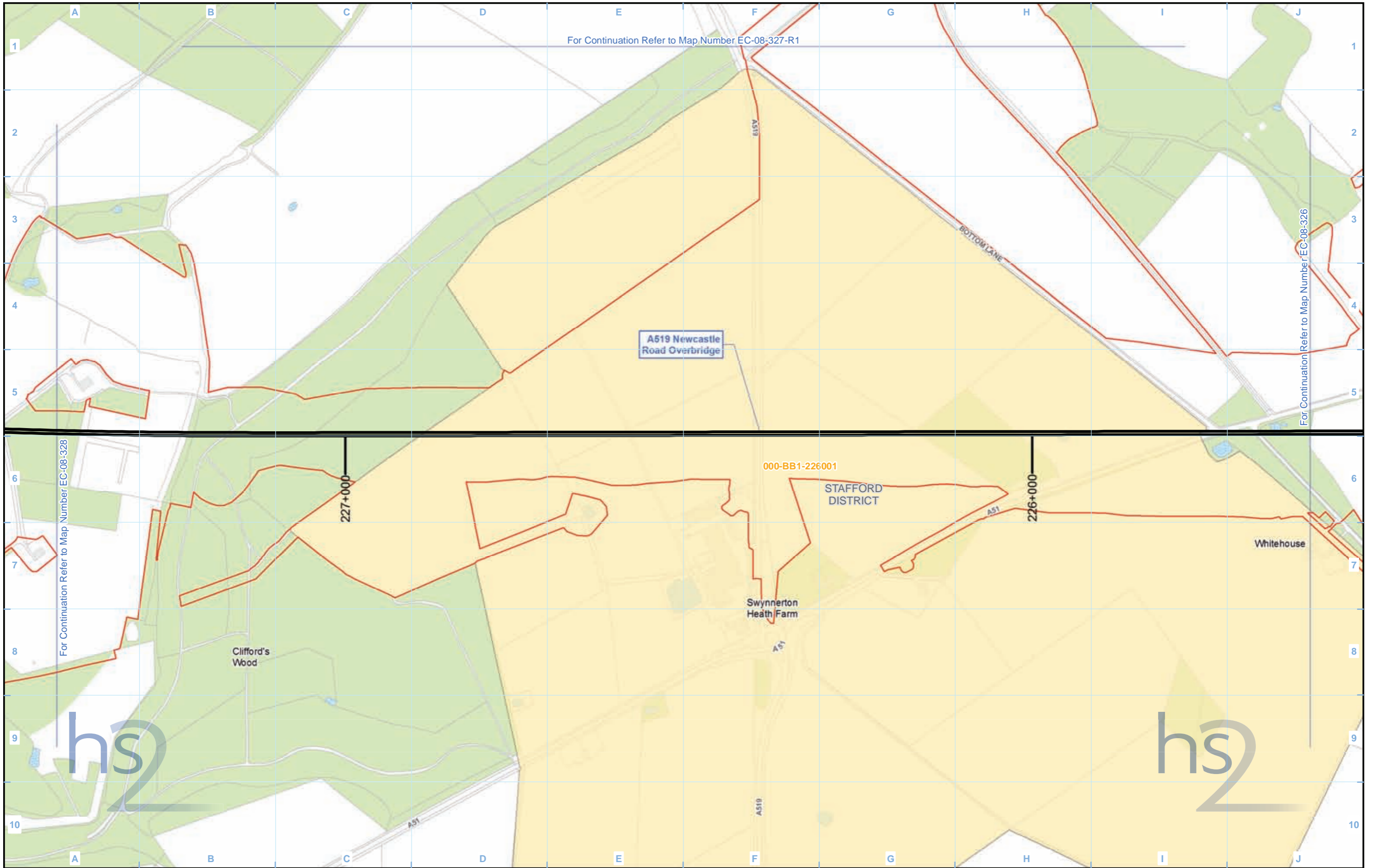
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For Continuation Refer to Map Number EC-08-327-R1

For Continuation Refer to Map Number EC-08-326

For Continuation Refer to Map Number EC-08-328

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-327**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

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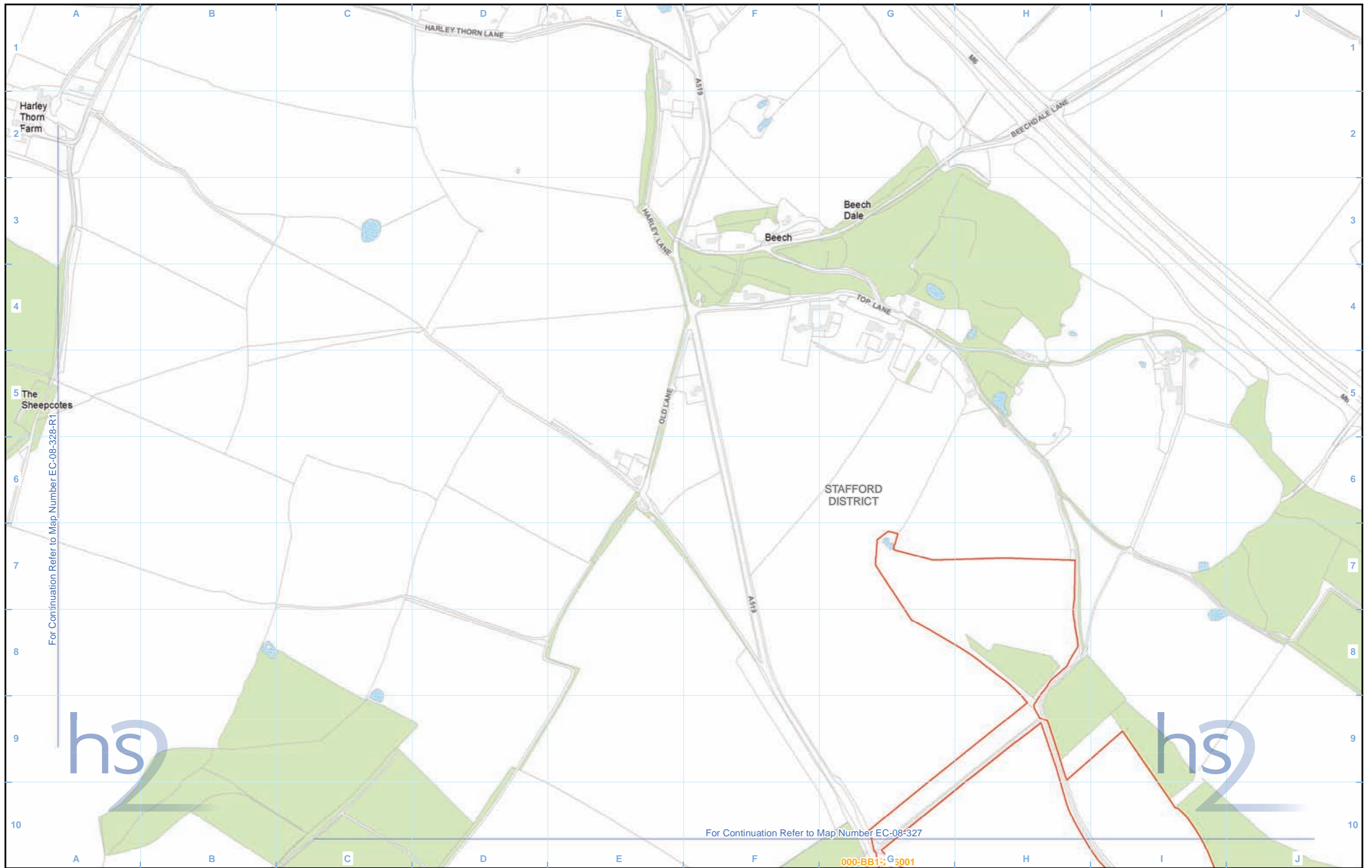
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-328-R1

For Continuation Refer to Map Number EC-08-327

Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number **EC-08-327-R1**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

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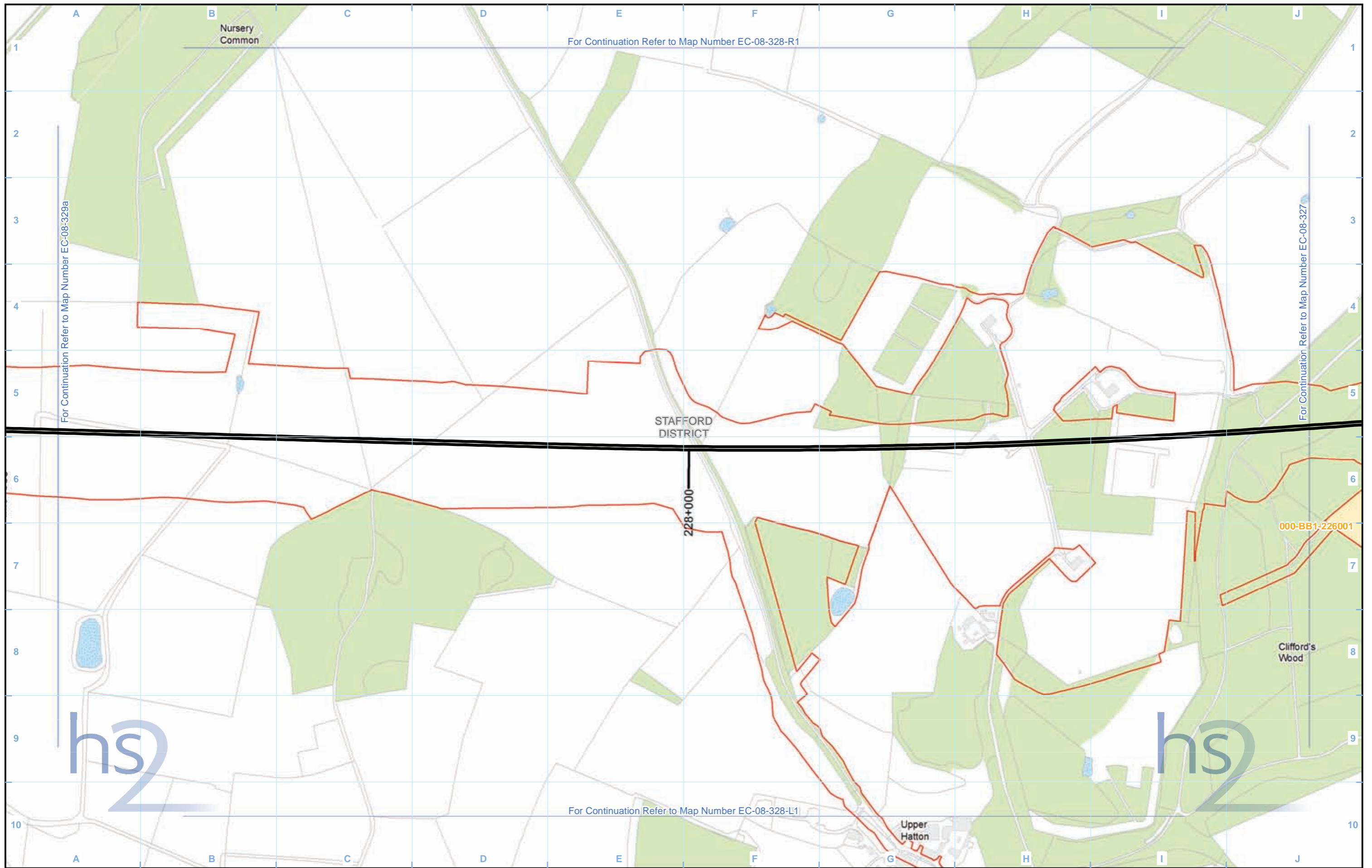
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Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number
EC-08-328

Map Name
Breeding Birds - Protected and Notable Species

Community Area 3:
Stone and Swynnerton

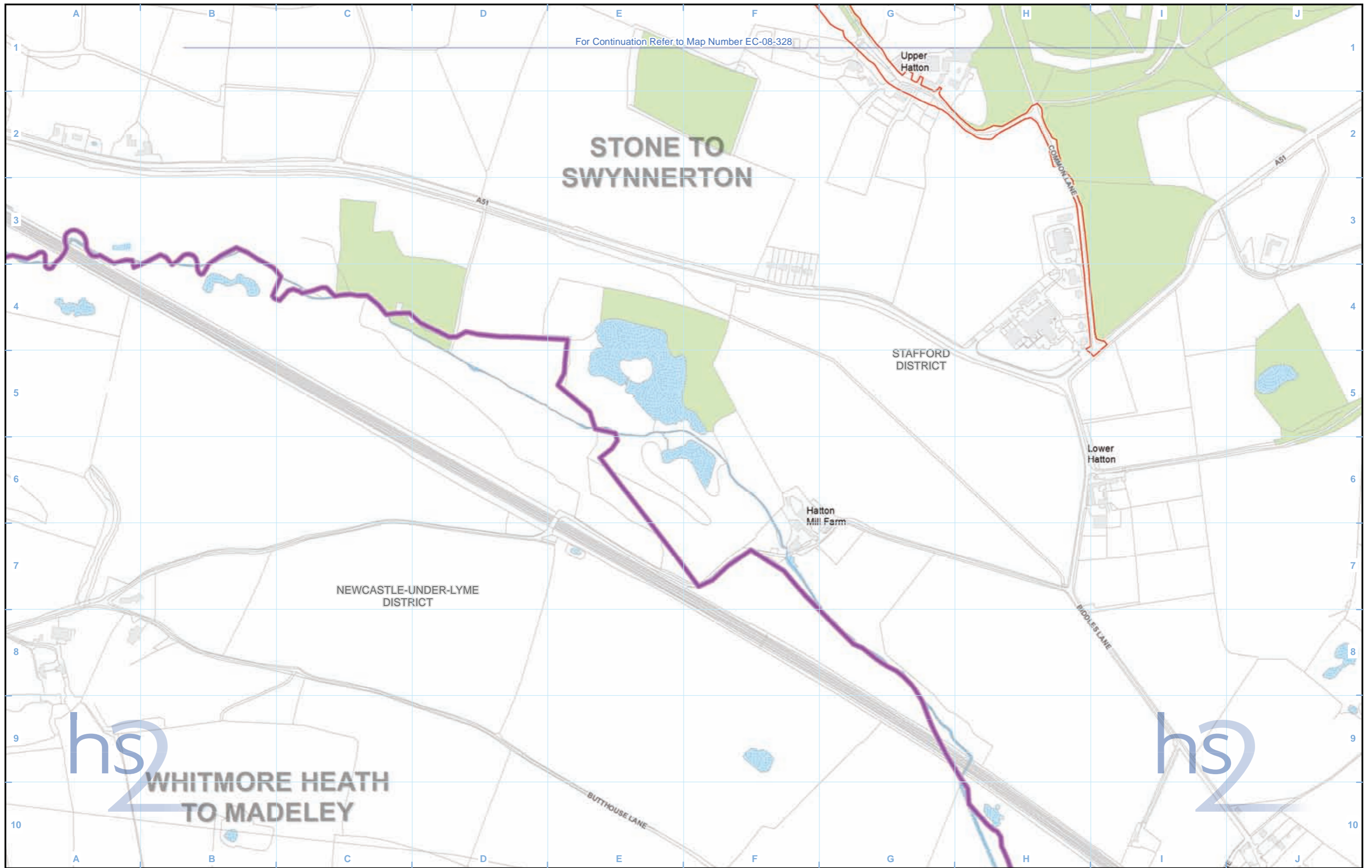
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-328

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-328a-L1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 3: Stone and Swynnerton	

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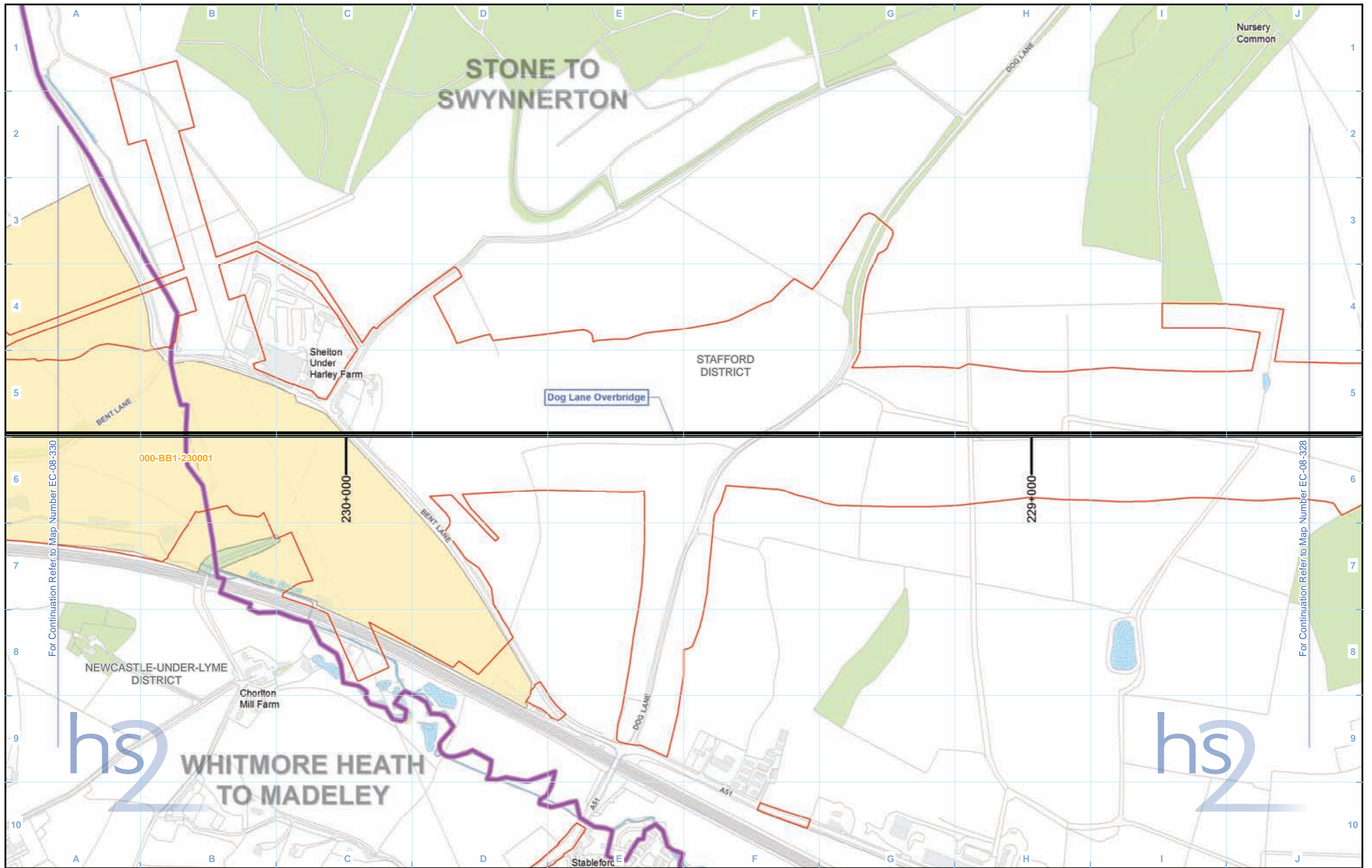
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Scale at A3: 1:5,000

Metres

Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-329a

Map Name
Breeding Birds - Protected and Notable Species

Community Area 3:
Stone and Swynnerton

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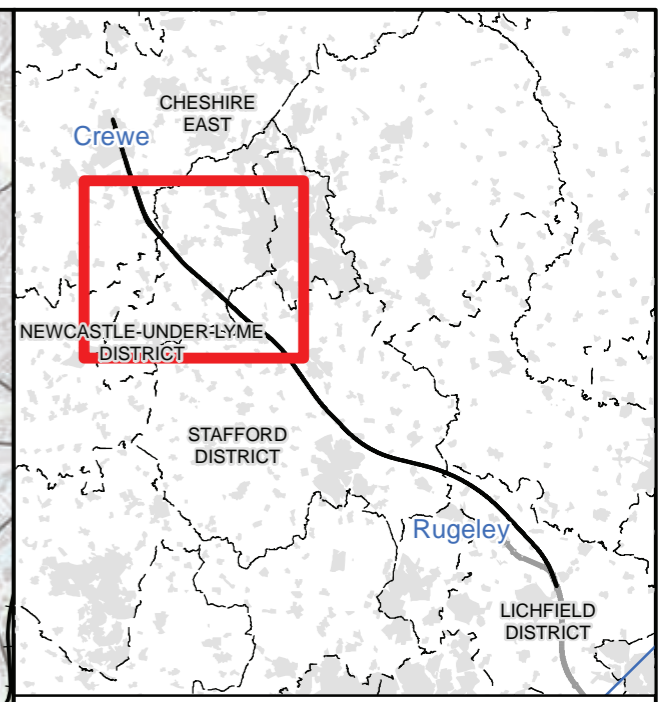
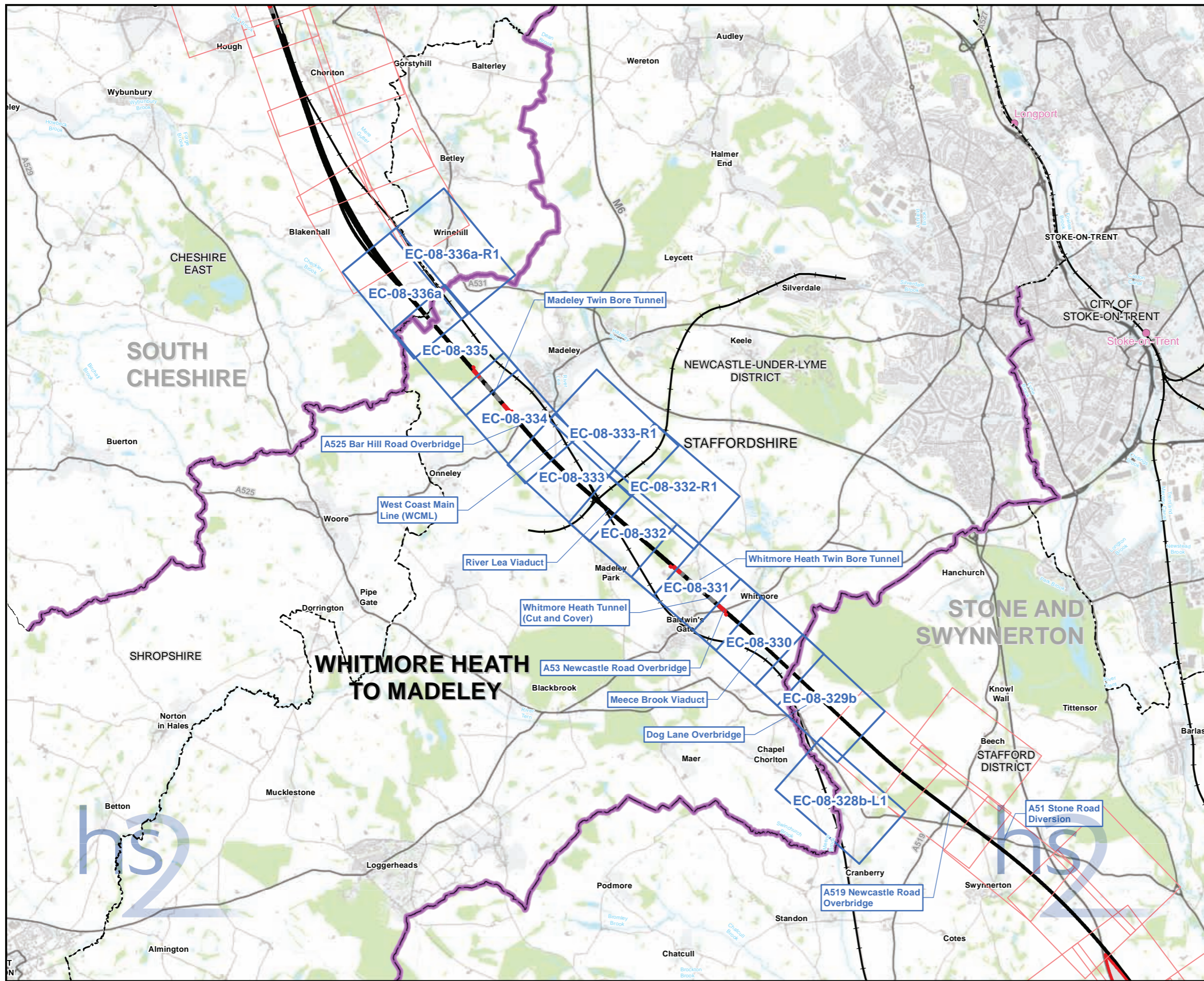
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Map Series Information:

This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.

Main Map Legend

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

Map Number: EC-08-INDEX-CA4

Map Name: Index Map of: Breeding Birds – Protected and Notable Species

Community Area 4: Whitmore Heath to Madeley

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Doc Number: C861-ARP-EV-MAP-000-078004-P03 Date: 14/06/17

For Continuation Refer to Map Number EC-08-328

STONE TO SWYNNERTON

Upper Hatton

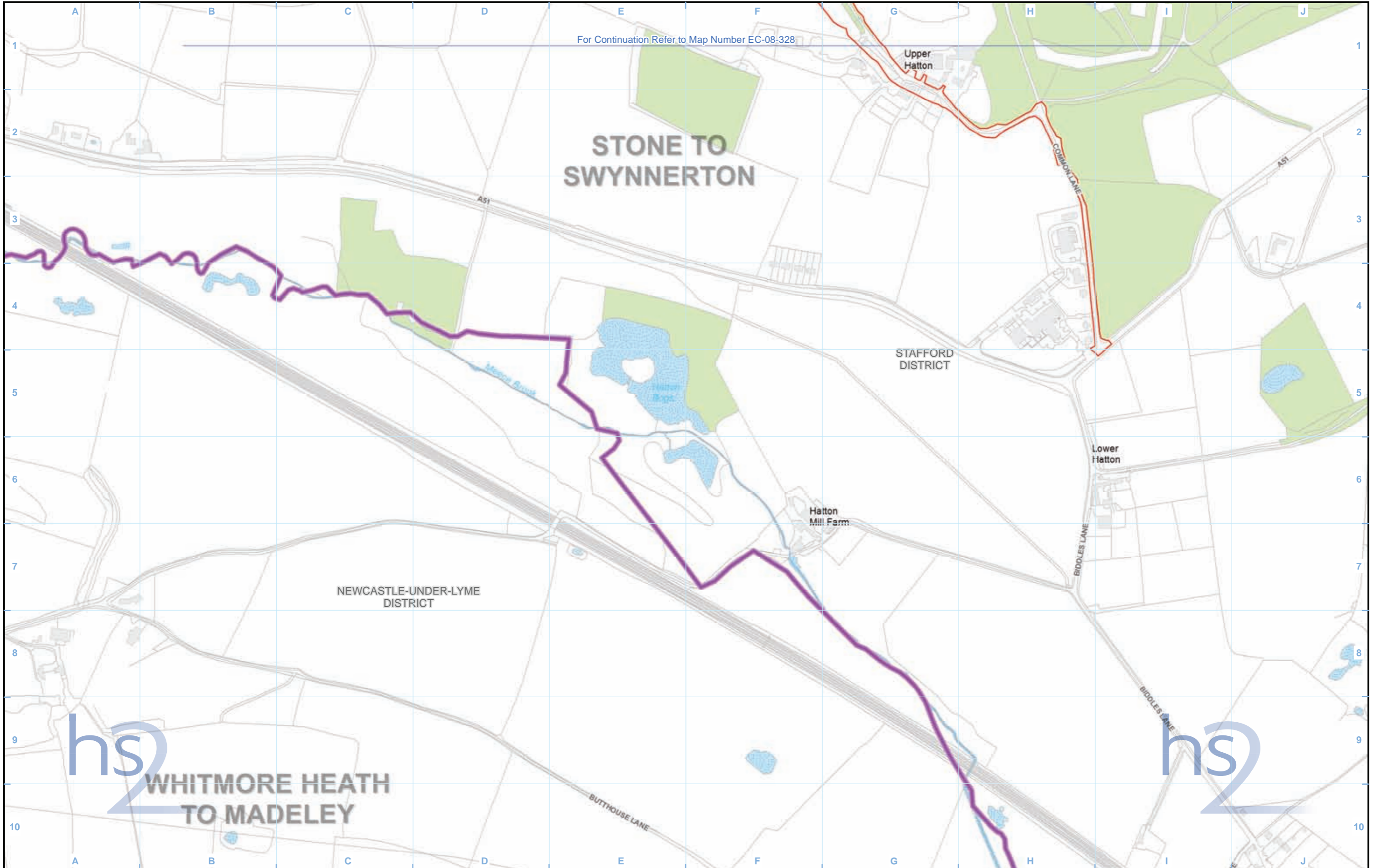
STAFFORD DISTRICT

Lower Hatton

Hatton Mill Farm

NEWCASTLE-UNDER-LYME DISTRICT

WHITMORE HEATH TO MADELEY



Legend	
Route in bored tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland
Land potentially required during construction	Species listed on Annex I of the Birds Directive
Community area boundary	Species listed on Schedule 1 of the Wildlife and Countryside Act
County boundary	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
District/Borough boundary	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-328b-L1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 4: Whitmore Heath to Madeley	

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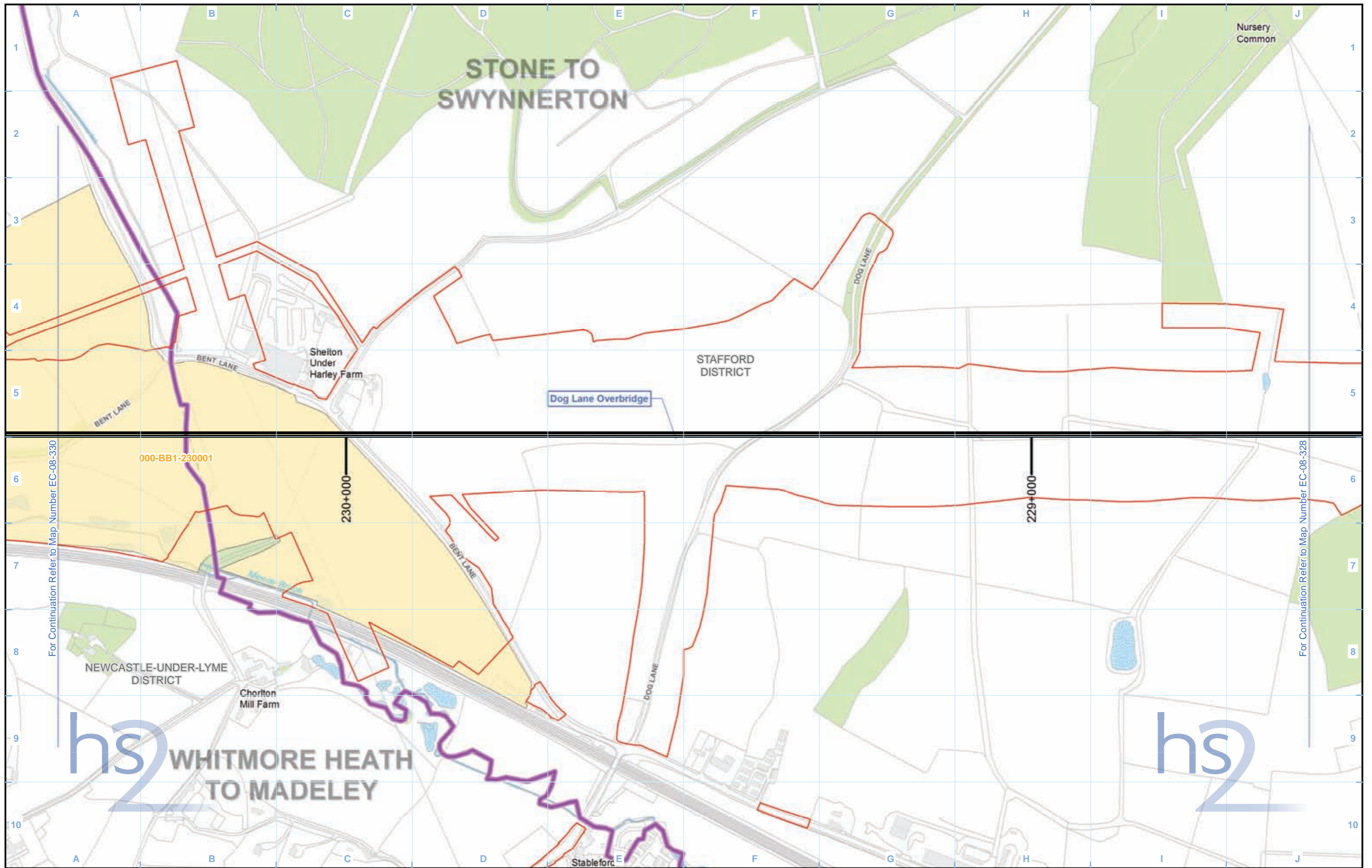
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Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number: EC-08-329b

Map Name: Breeding Birds - Protected and Notable Species

Community Area 4: Whitmore Heath to Madeley

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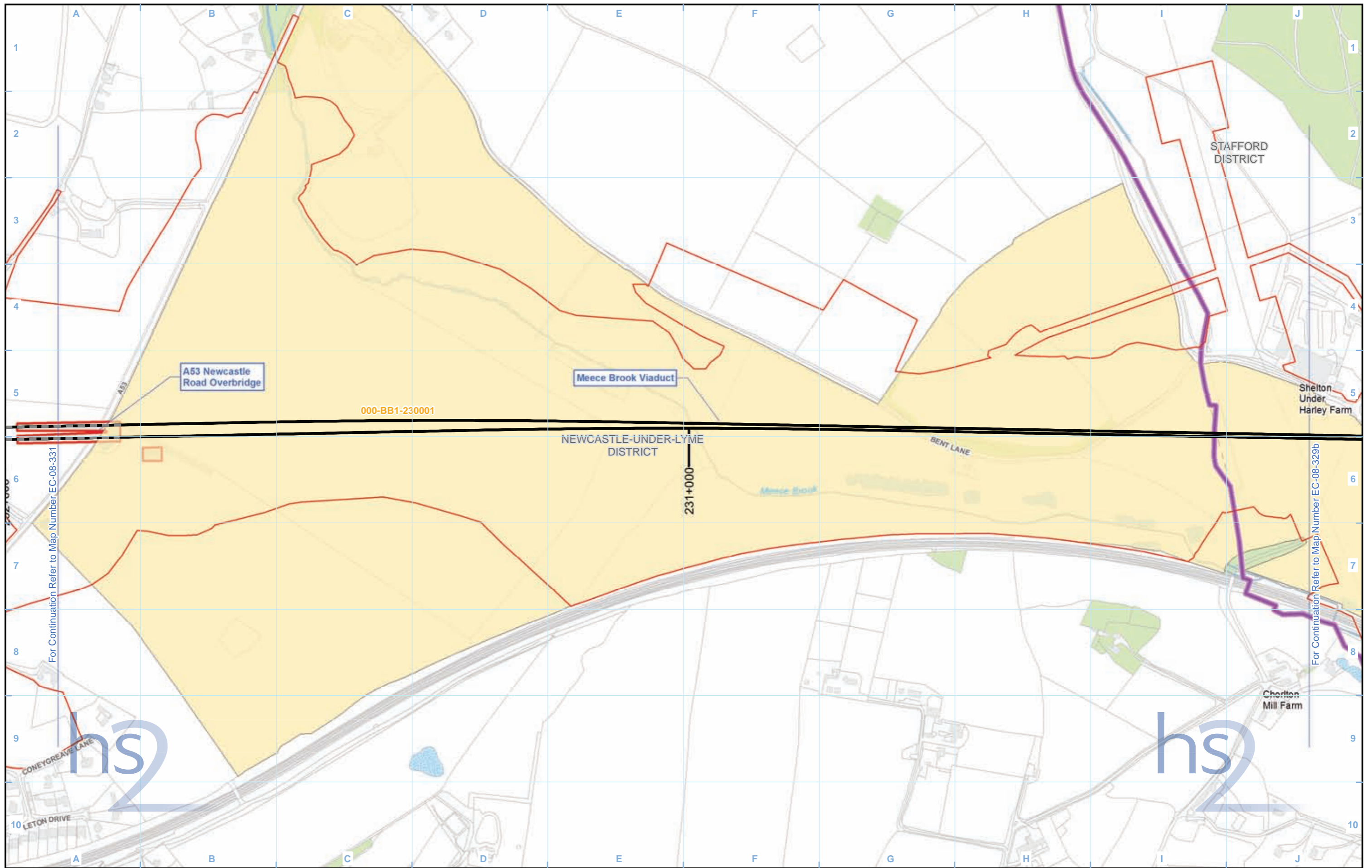
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Doc Number: C861-ARP-EV-MAP-000-078429-P03

Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-330

Map Name
Breeding Birds - Protected and Notable Species

Community Area 4:
Whitmore Heath to Madeley

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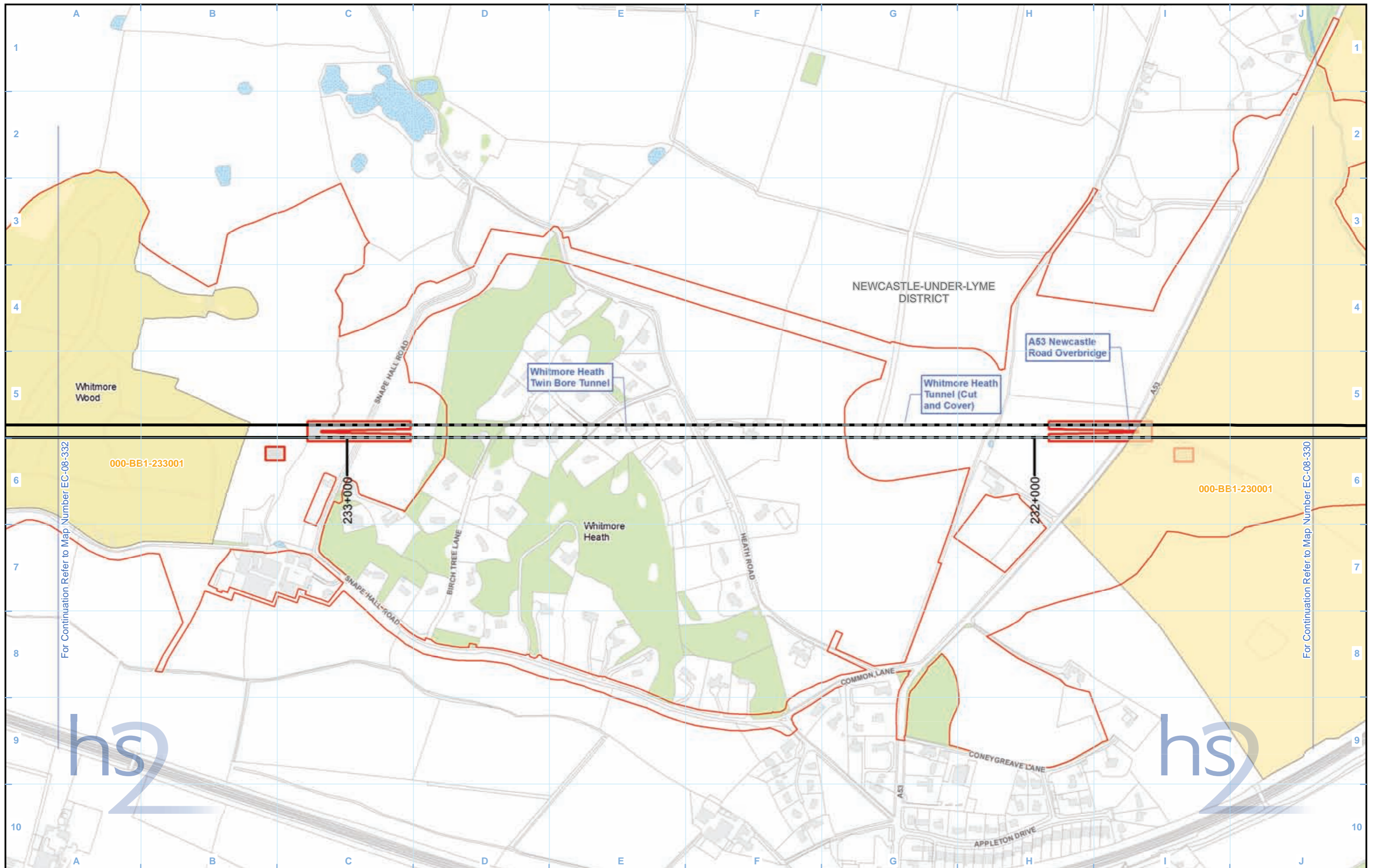
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Doc Number: C861-ARP-EV-MAP-000-078330-P03

Date: 14/06/17



Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number
EC-08-331

Map Name
Breeding Birds - Protected and Notable Species

Community Area 4:
Whitmore Heath to Madeley

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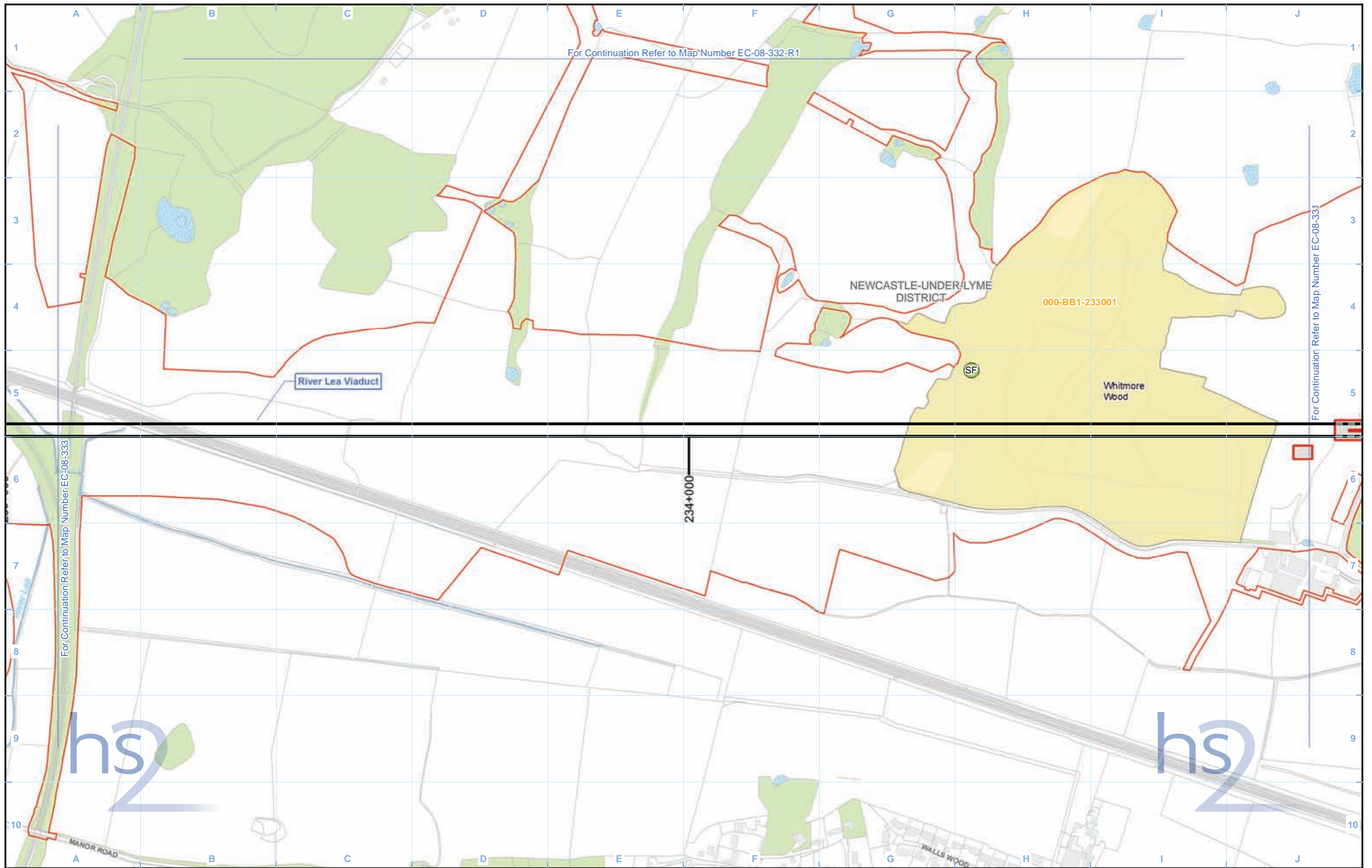
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-332-R1

For Continuation Refer to Map Number EC-08-331

For Continuation Refer to Map Number EC-08-333

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-332**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 4:
Whitmore Heath to Madeley

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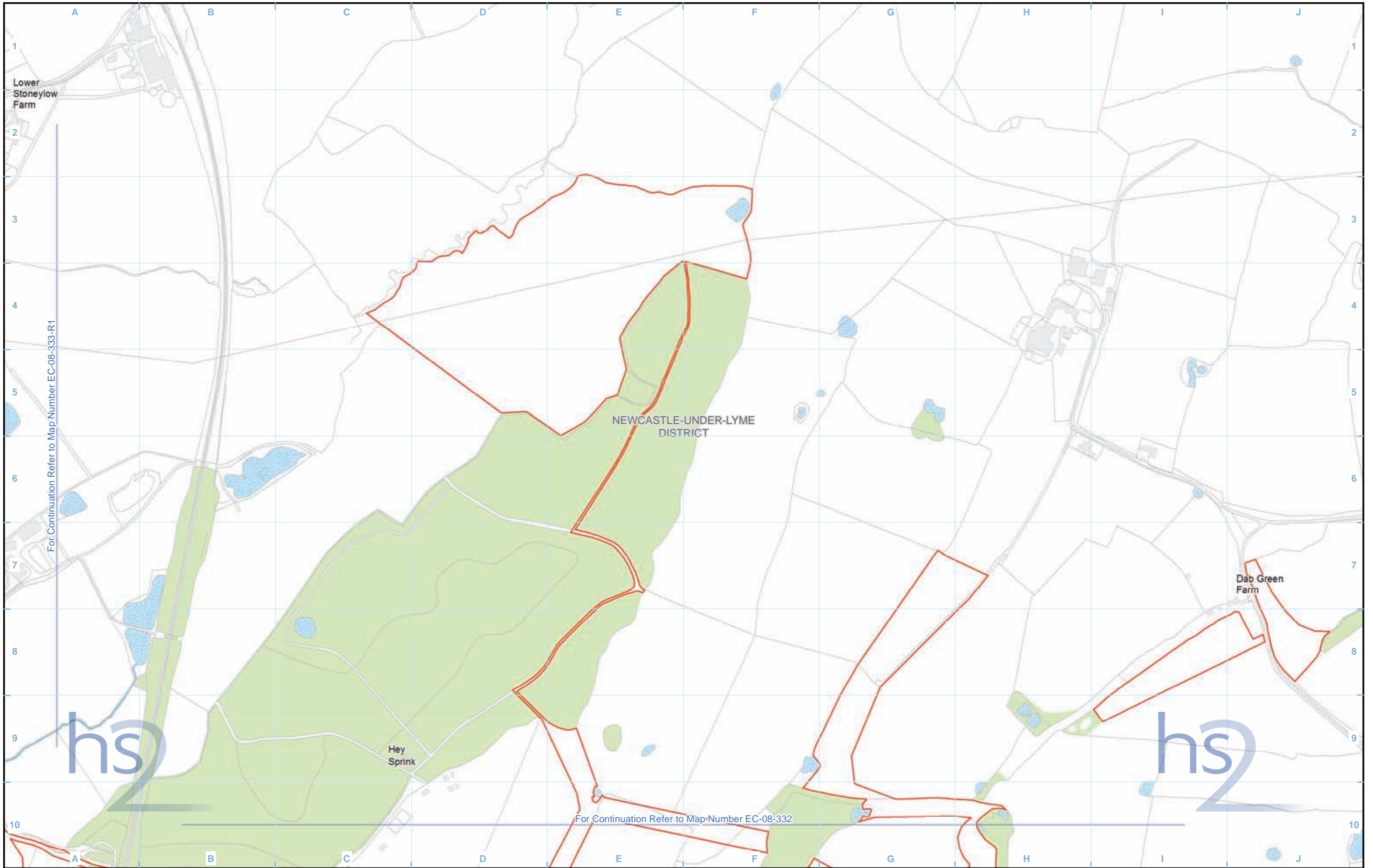
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Doc Number: C861-ARP-EV-MAP-000-078332-P03

Date: 14/06/17



For Continuation Refer to Map Number EC-08-333-R1

For Continuation Refer to Map Number EC-08-332

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-332-R1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 4: Whitmore Heath to Madeley	

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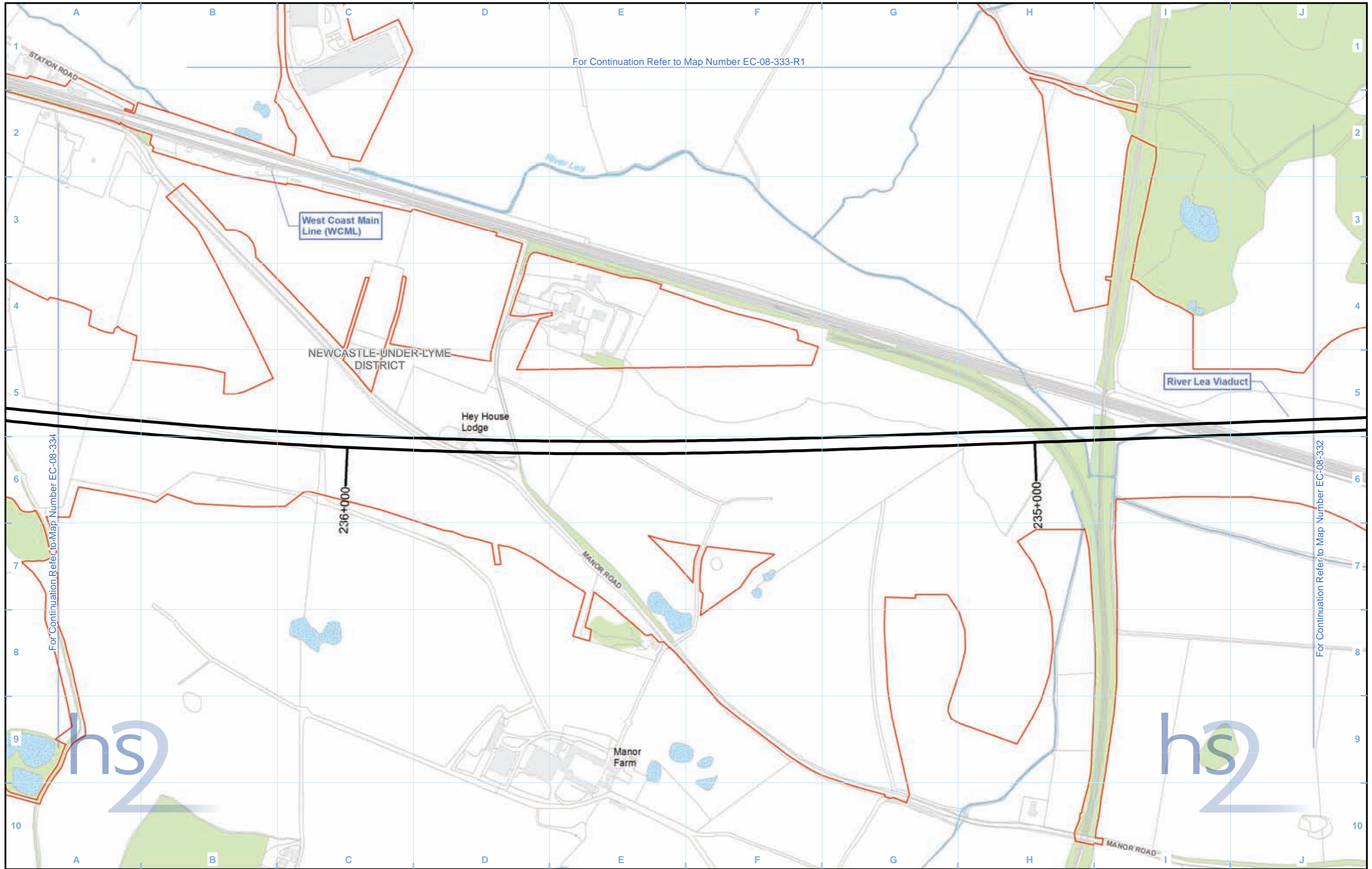
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-333-R1

For Continuation Refer to Map Number EC-08-334

For Continuation Refer to Map Number EC-08-332

Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number **EC-08-333**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 4:
Whitmore Heath to Madeley

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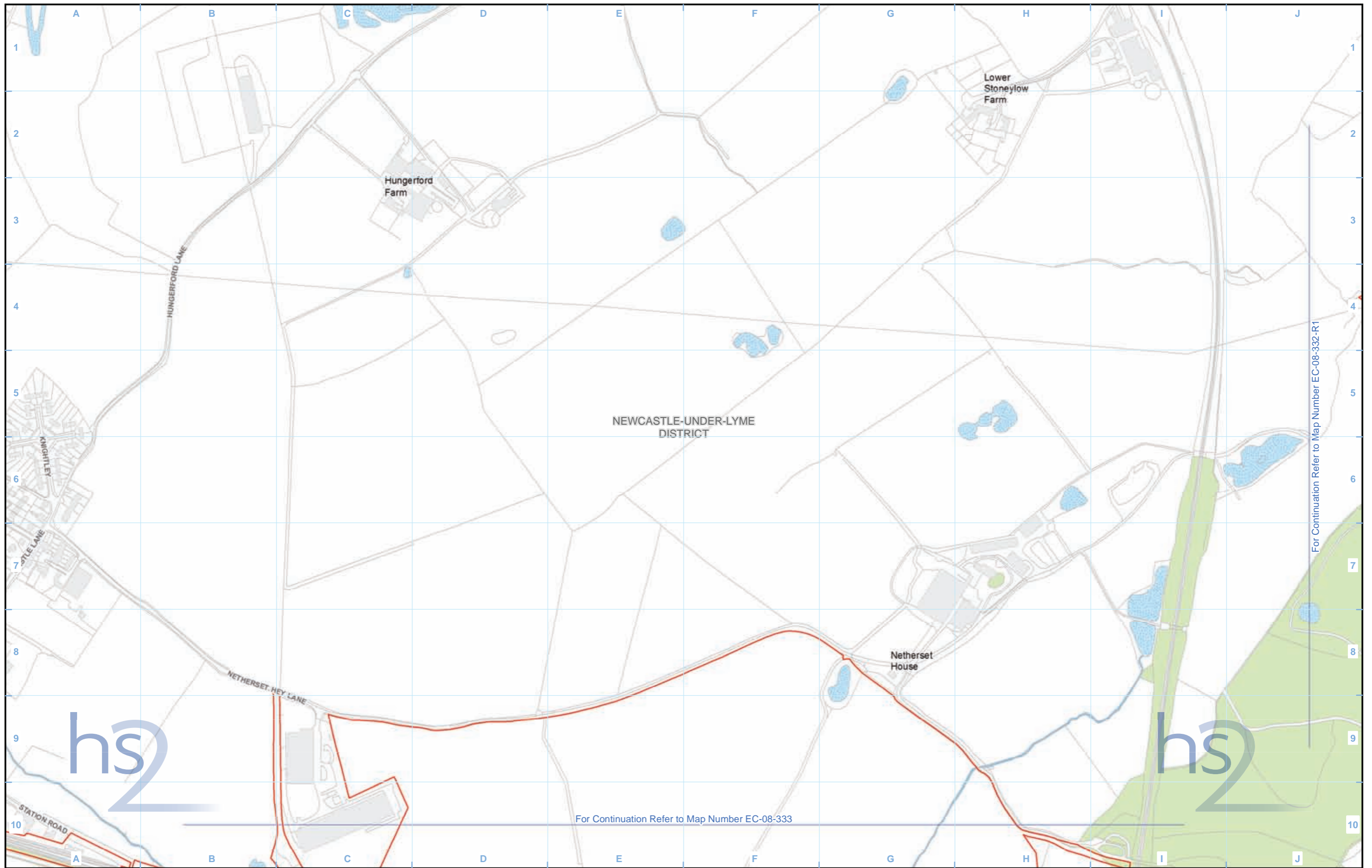
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For Continuation Refer to Map Number EC-08-332-R1

For Continuation Refer to Map Number EC-08-333

Legend Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland		Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices		Breeding birds - survey extent	
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Map Number	EC-08-333-R1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 4: Whitmore Heath to Madeley	

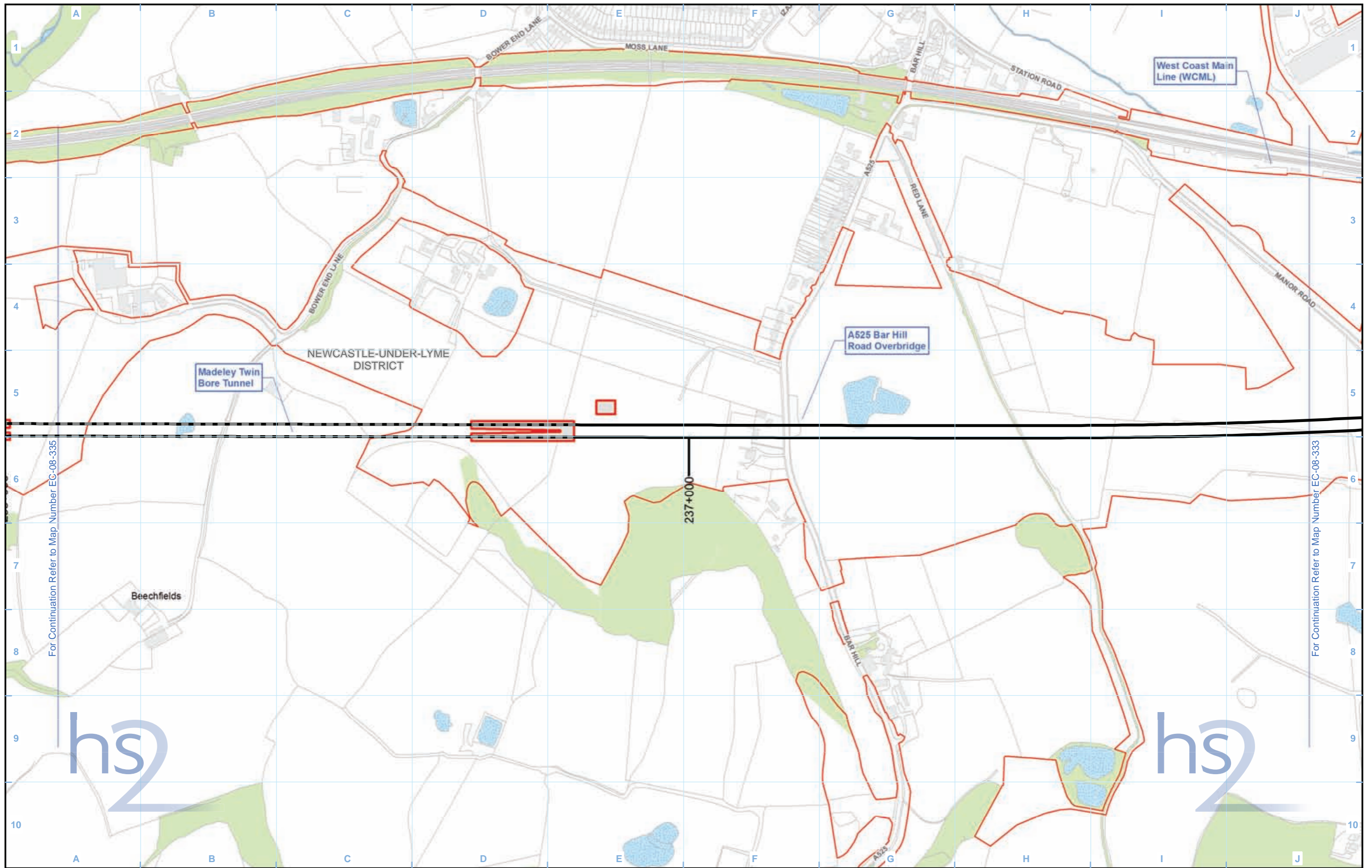
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Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-334

Map Name
Breeding Birds - Protected and Notable Species

Community Area 4:
Whitmore Heath to Madeley

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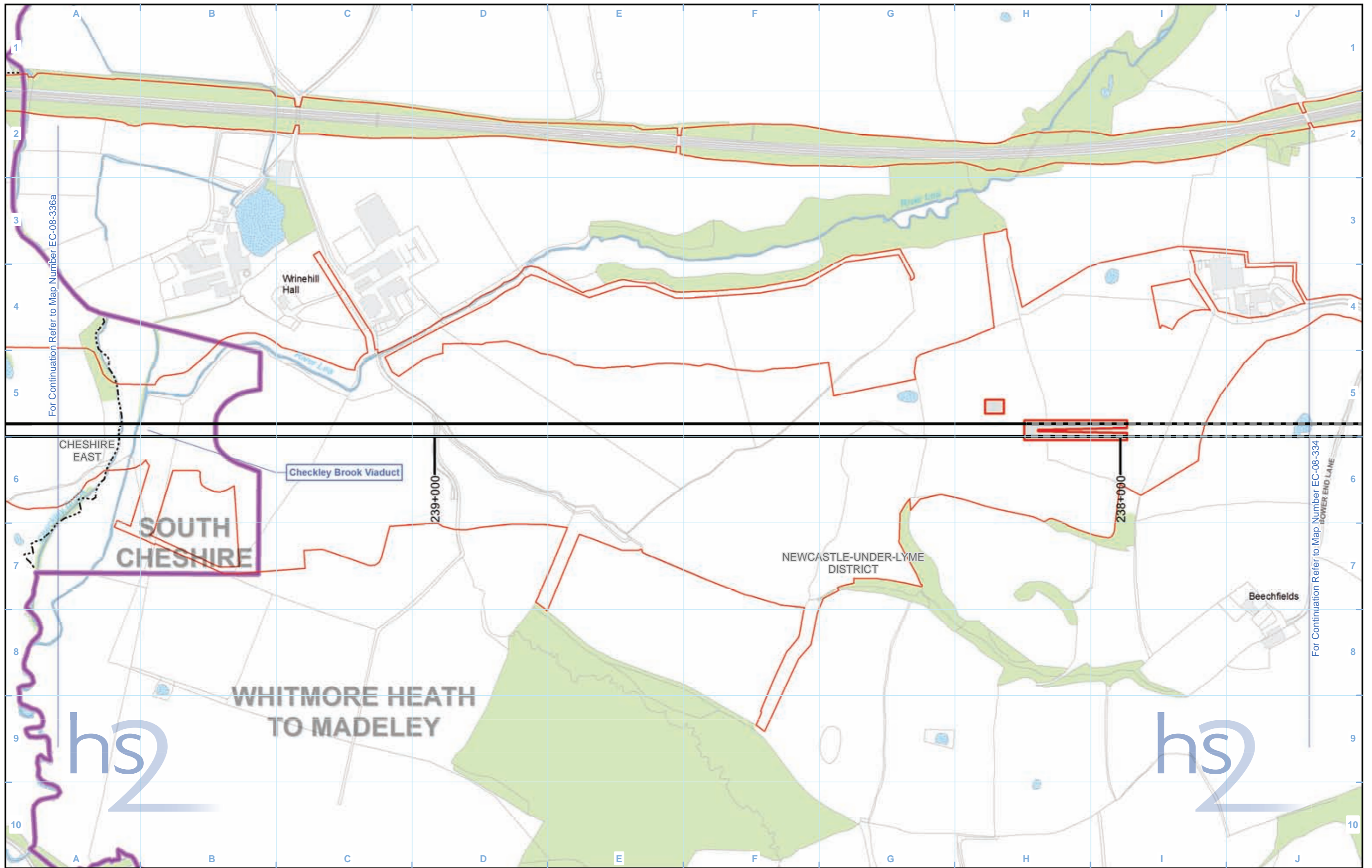
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For Continuation Refer to Map Number EC-08-336a

For Continuation Refer to Map Number EC-08-334

Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number **EC-08-335**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 4:
Whitmore Heath to Madeley

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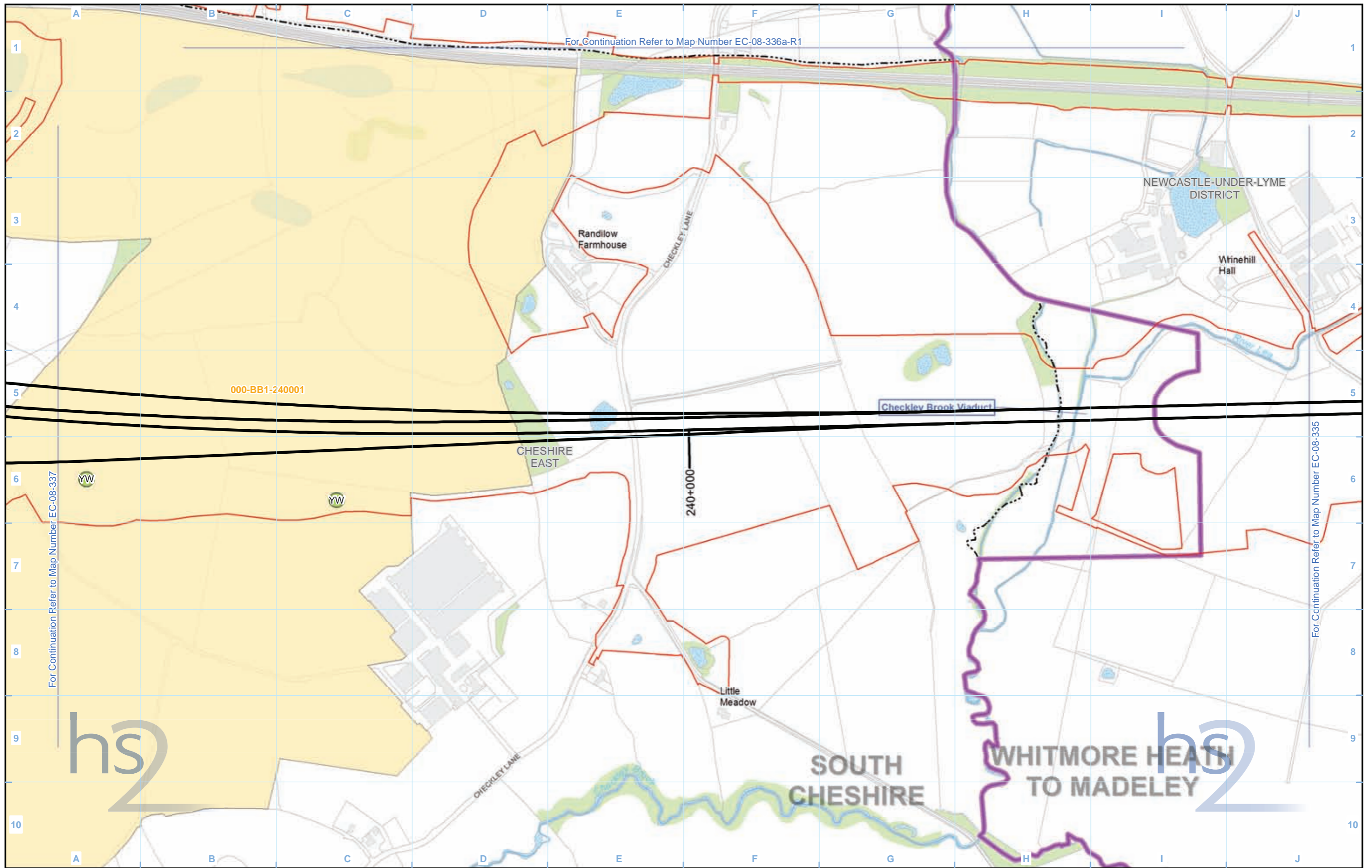
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Date: 14/06/17



Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number
EC-08-336a

Map Name
Breeding Birds - Protected and Notable Species

Community Area 4:
Whitmore Heath to Madeley

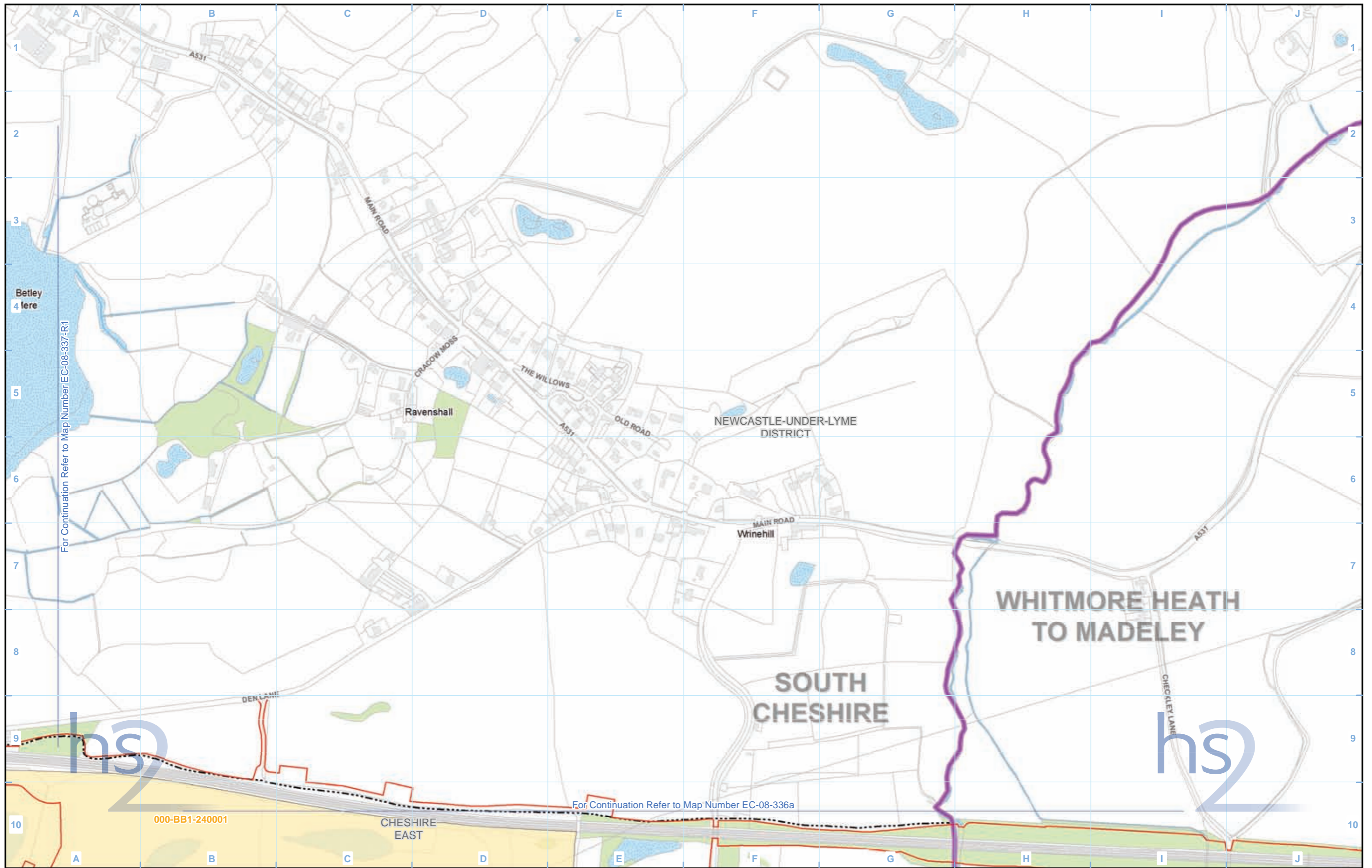
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For Continuation Refer to Map Number EC-08-337-R1

For Continuation Refer to Map Number EC-08-336a

000-BB1-240001

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-336a-R1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 4: Whitmore Heath to Madeley	

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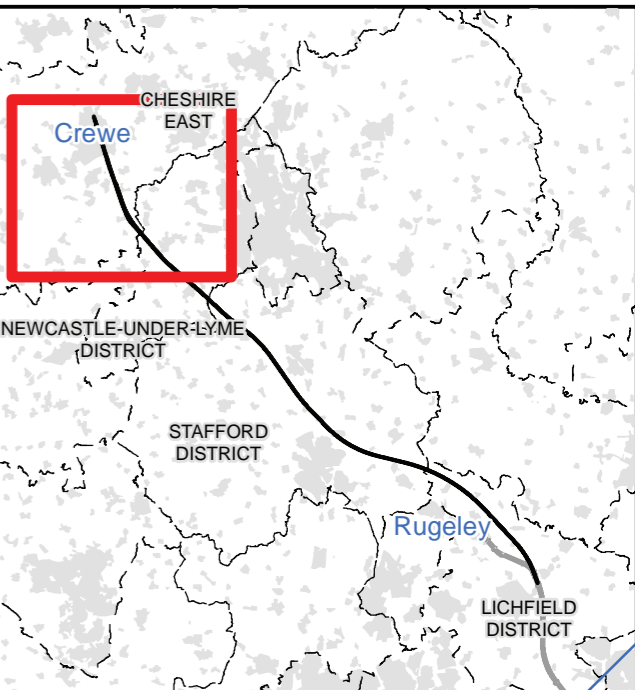
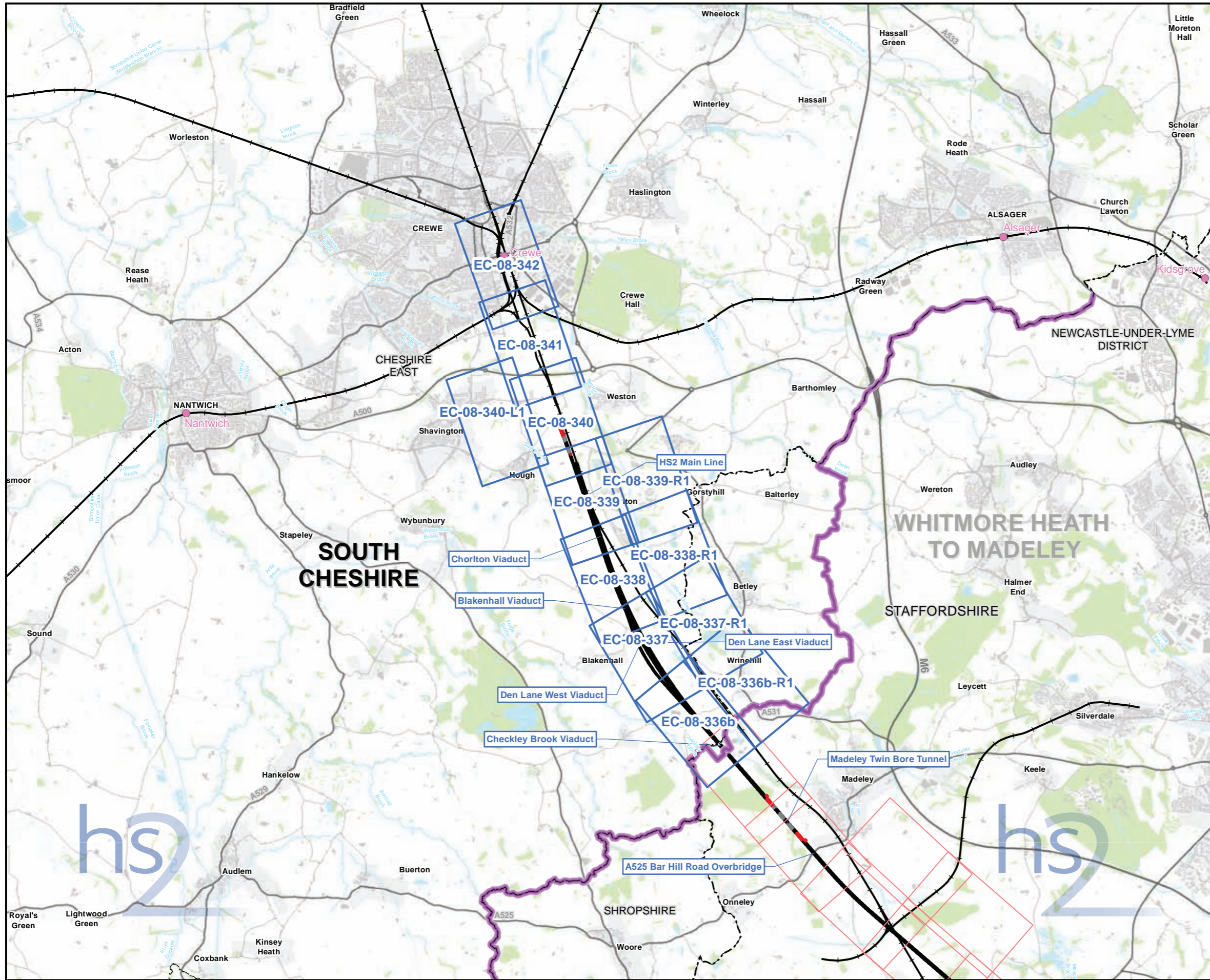
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Map Series Information:

This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.

Main Map Legend

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

Map Number: EC-08-INDEX-CA5

Map Name: Index Map of: Breeding Birds – Protected and Notable Species

Community Area 5: South Cheshire

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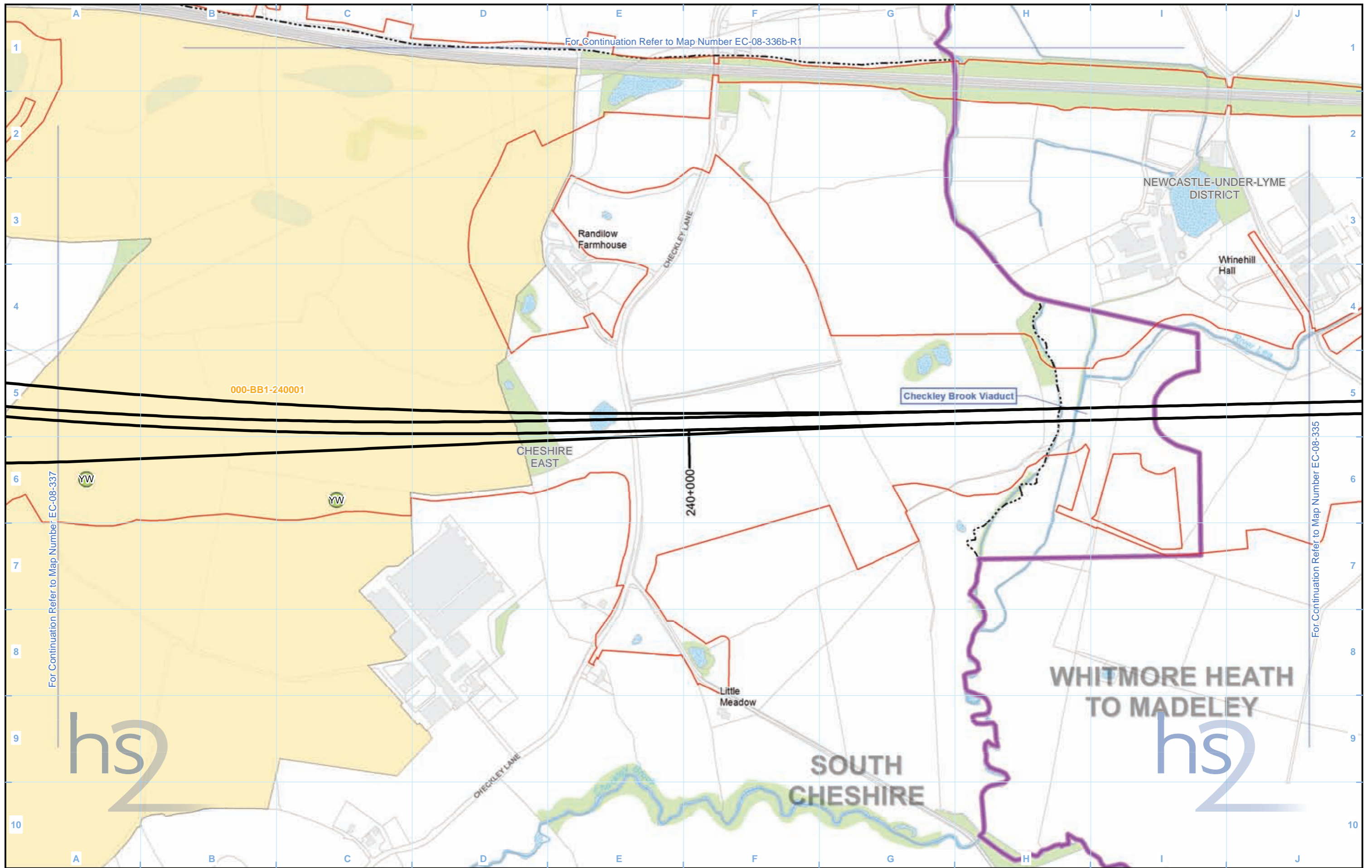
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-336b-R1

000-BB1-240001

240+000

For Continuation Refer to Map Number EC-08-337

For Continuation Refer to Map Number EC-08-335

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Breeding birds - survey extent

Map Number	EC-08-336b
Map Name	Breeding Birds - Protected and Notable Species
Community Area 5: South Cheshire	

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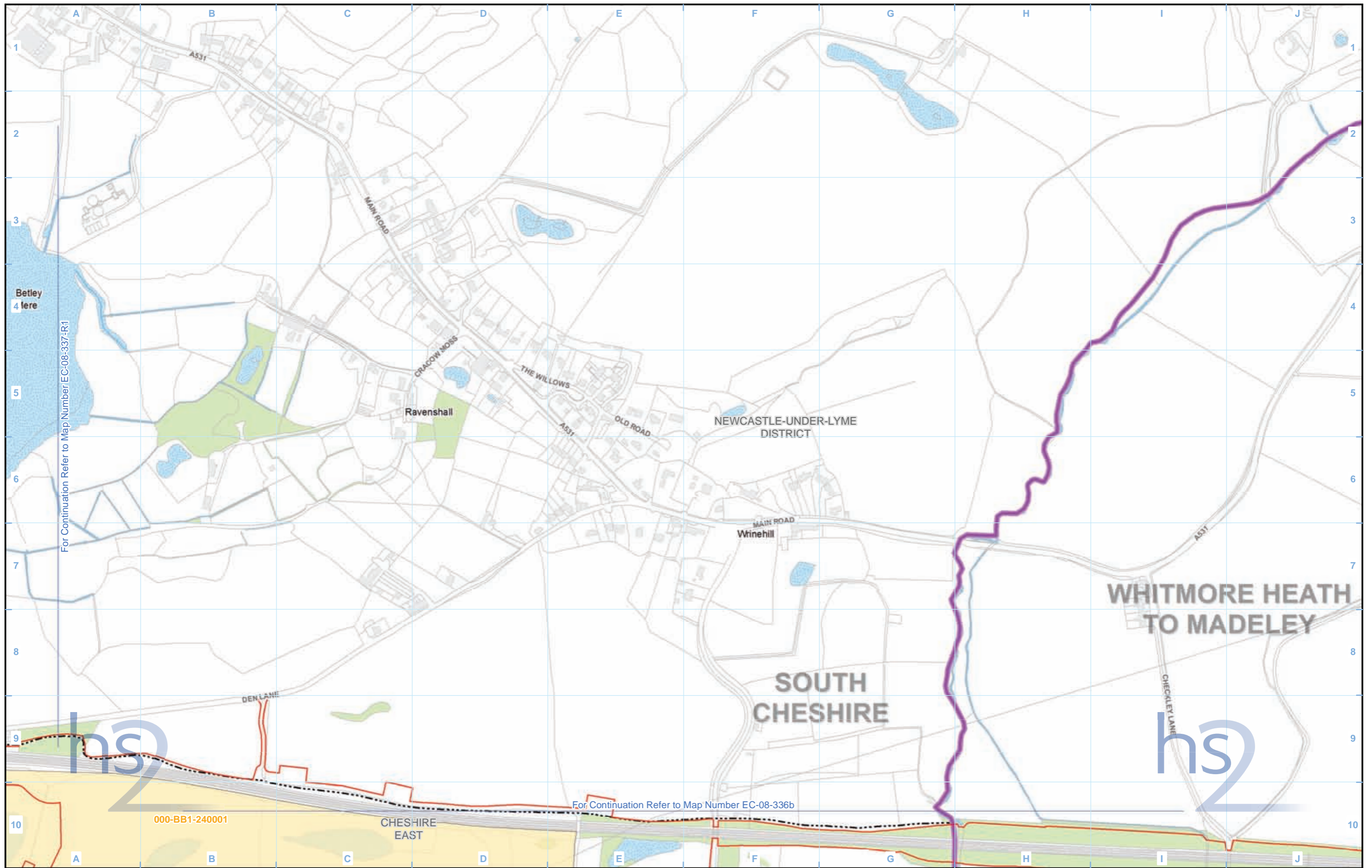
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Scale at A3: 1:5,000

Metres

Date: 14/06/17

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For Continuation Refer to Map Number EC-08-337-R1

For Continuation Refer to Map Number EC-08-336b

000-BB1-240001

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent
	Watercourse
	Water body
	Woodland

Map Number	EC-08-336b-R1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 5: South Cheshire	

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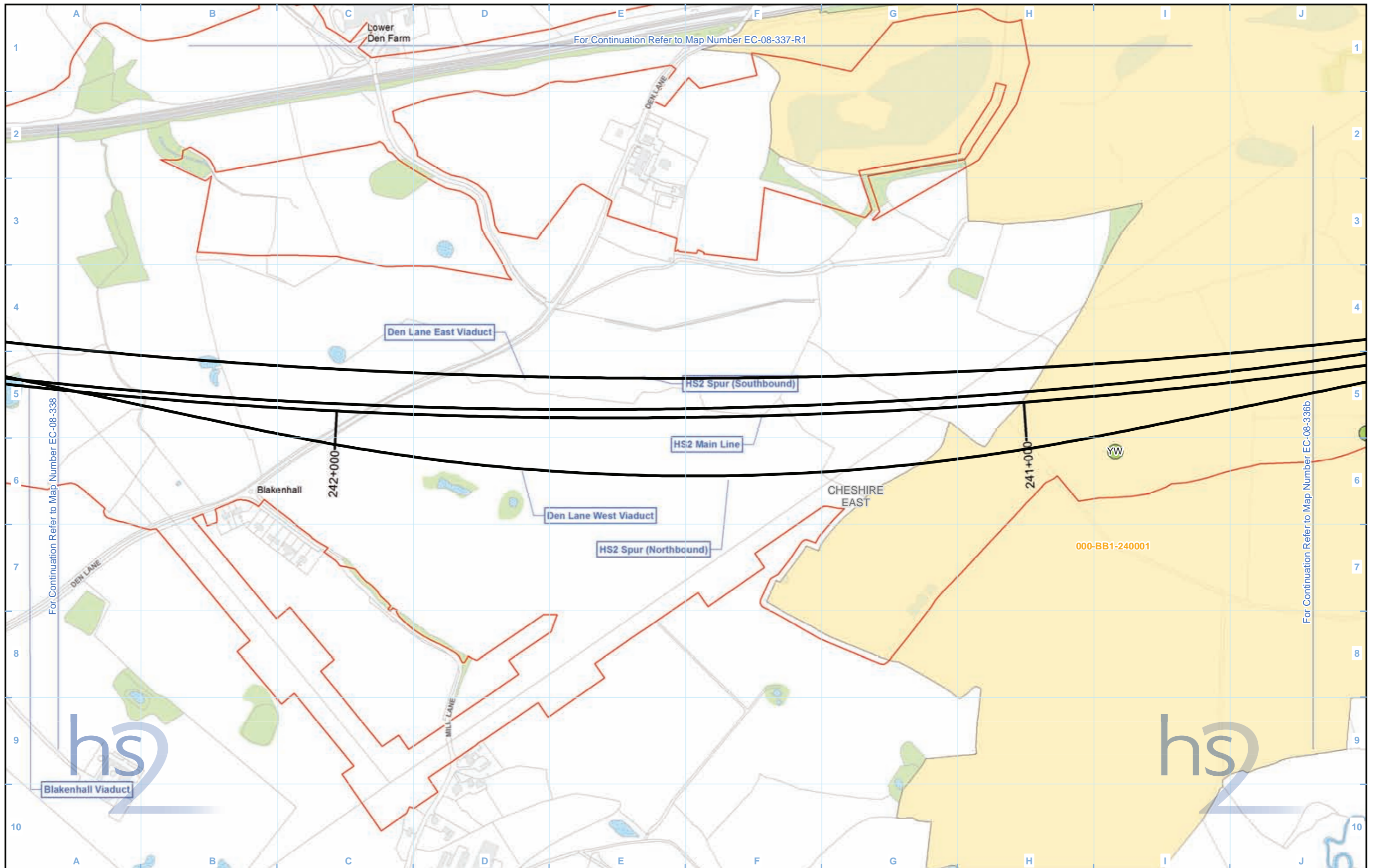
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Date: 14/06/17

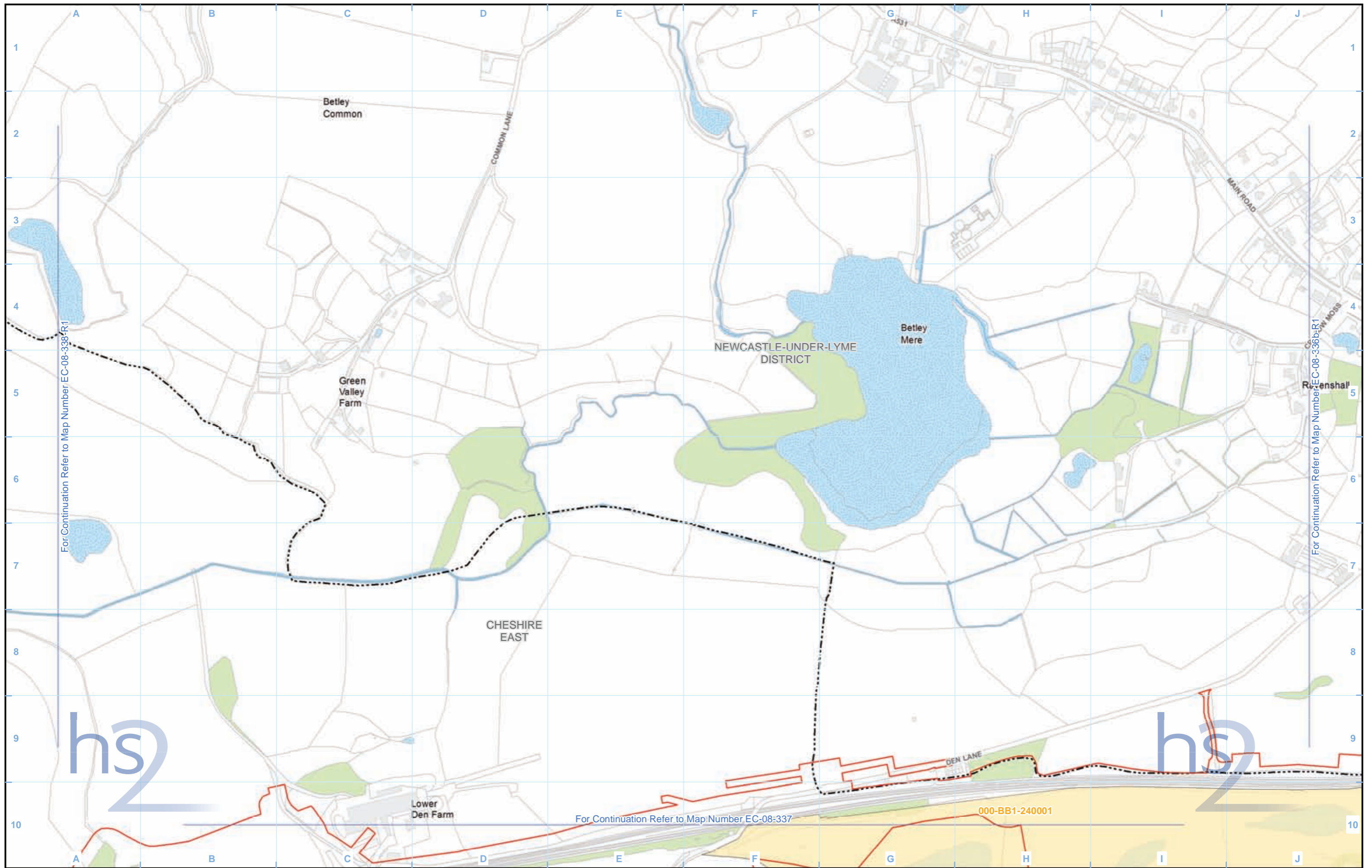


Legend

<ul style="list-style-type: none"> Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Breeding birds - survey extent
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Map Number	EC-08-337
Map Name	Breeding Birds - Protected and Notable Species
Community Area 5: South Cheshire	

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For Continuation Refer to Map Number EC-08-336b-R1

For Continuation Refer to Map Number EC-08-337

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

- Watercourse
- Water body
- Woodland

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices

- Breeding birds - survey extent

Map Number	EC-08-337-R1
Map Name	Breeding Birds - Protected and Notable Species
	Community Area 5: South Cheshire

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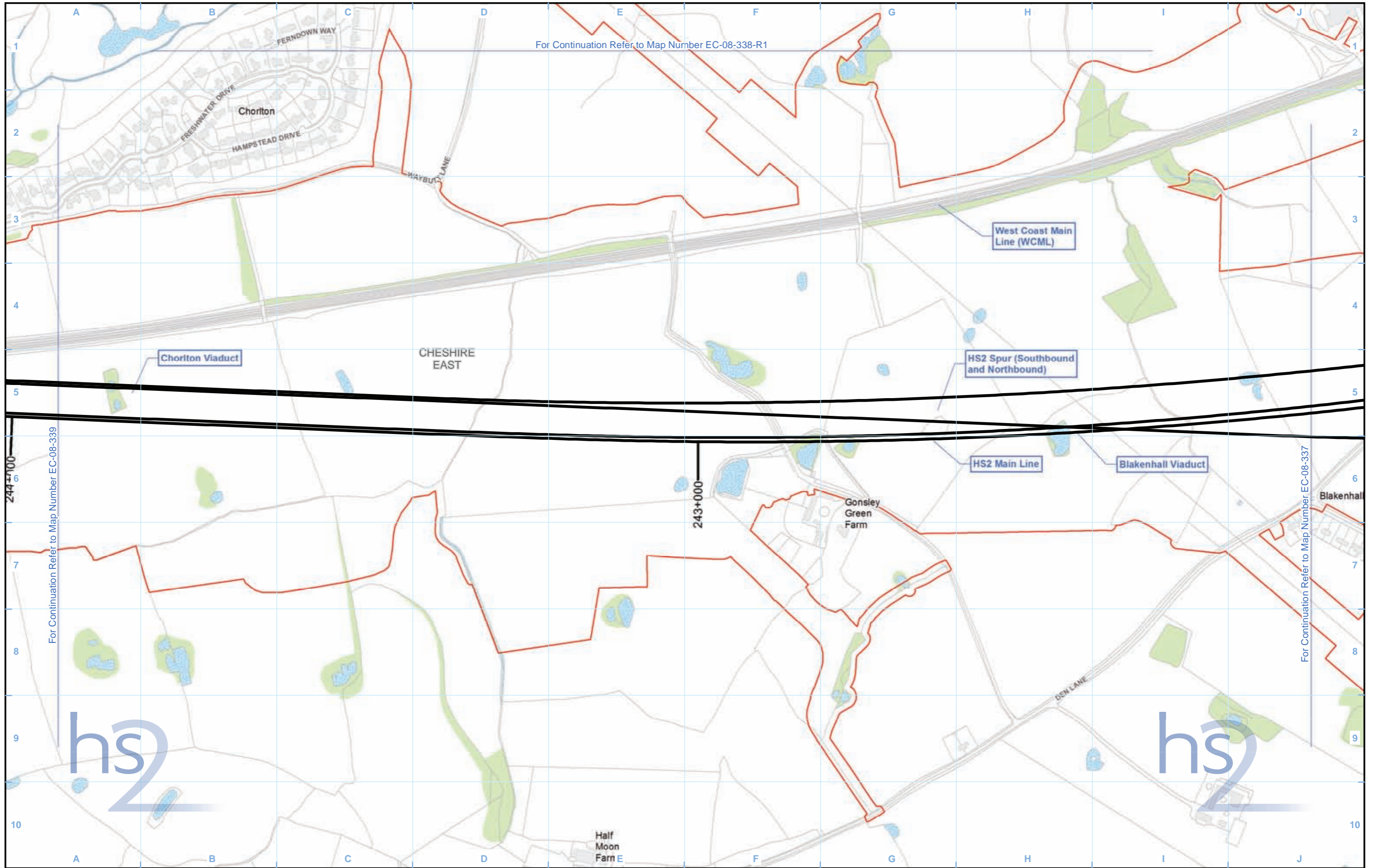
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Scale at A3: 1:5,000

Metres

Date: 14/06/17

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For Continuation Refer to Map Number EC-08-338-R1

For Continuation Refer to Map Number EC-08-339

For Continuation Refer to Map Number EC-08-337

244+100

243+000

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

- Watercourse
- Water body
- Woodland

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices

- Breeding birds - survey extent

Map Number
EC-08-338

Map Name
Breeding Birds - Protected and Notable Species

Community Area 5:
South Cheshire

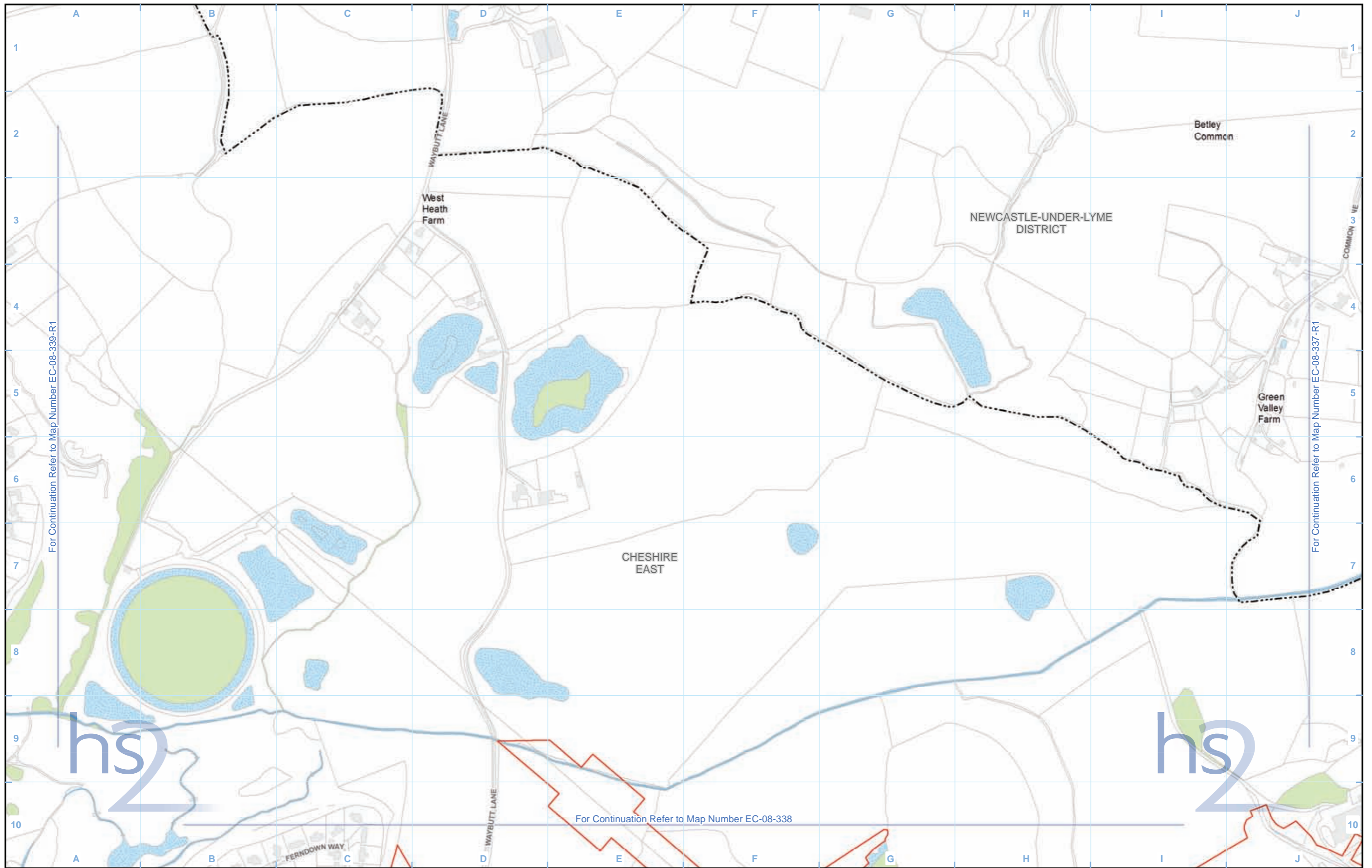
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Date: 14/06/17



For Continuation Refer to Map Number EC-08-339-R1

For Continuation Refer to Map Number EC-08-337-R1

For Continuation Refer to Map Number EC-08-338

Legend

Route in bored tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices	Breeding birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
County boundary				
District/Borough boundary				

Map Number	EC-08-338-R1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 5: South Cheshire	

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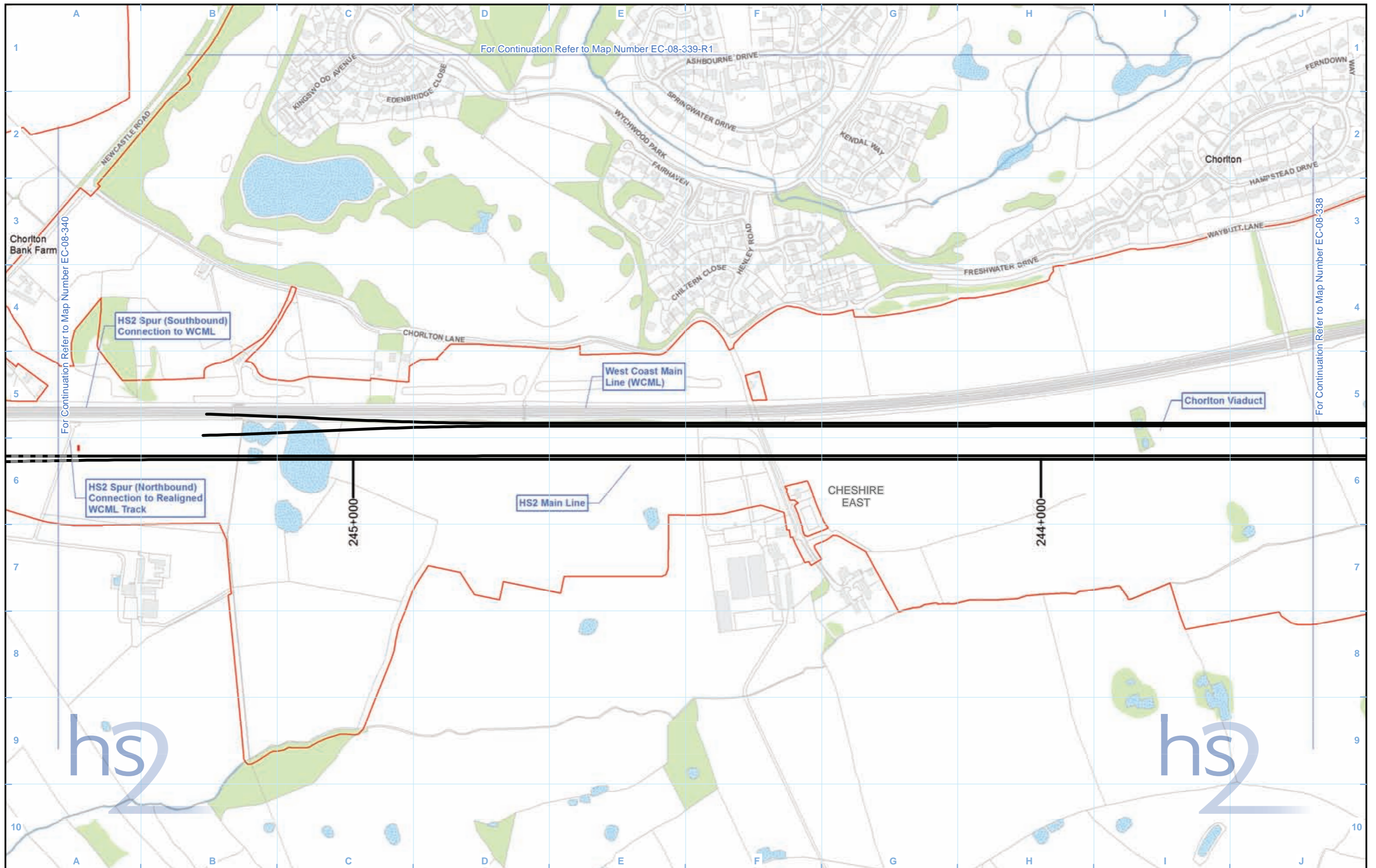
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-078438-P03 Date: 14/06/17

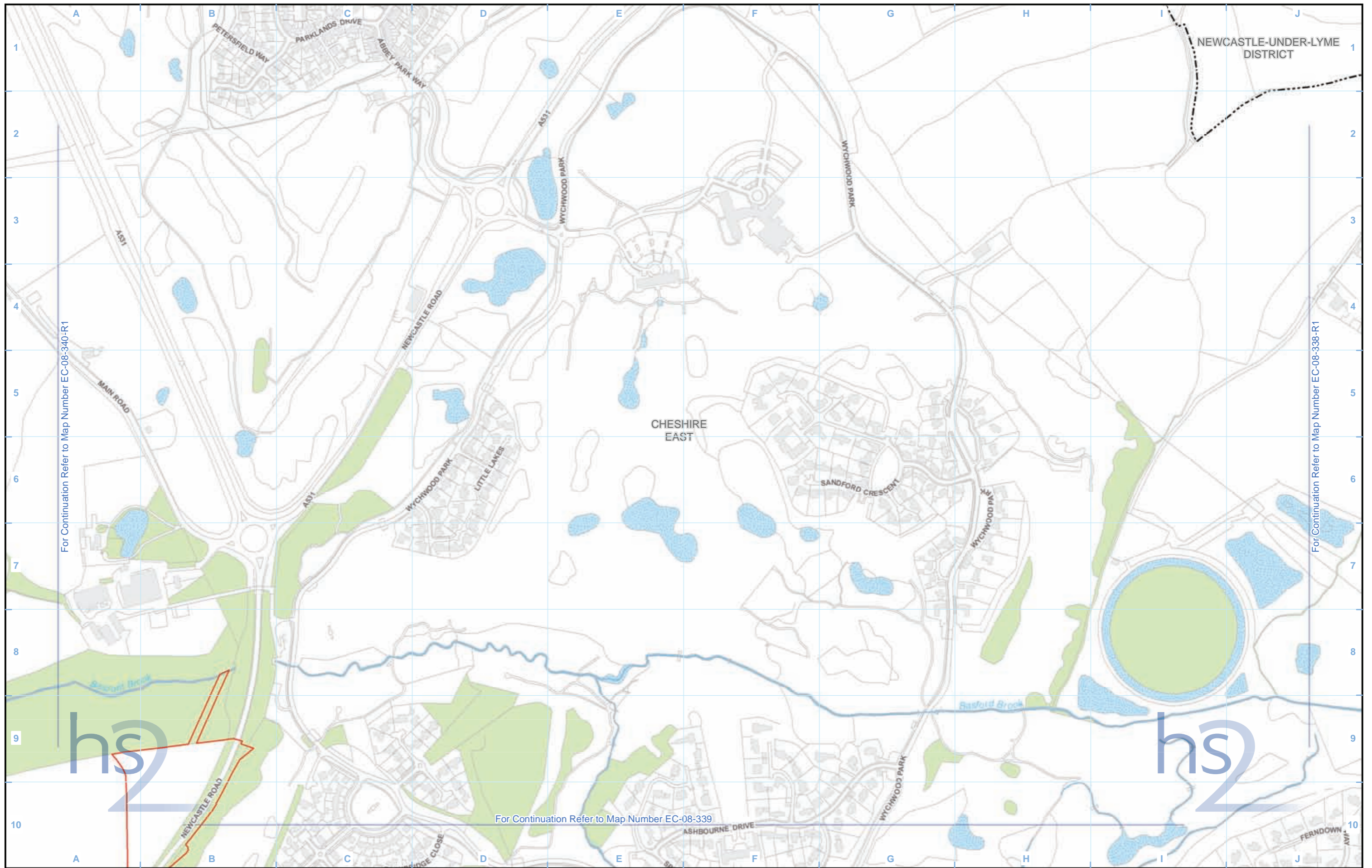


For Continuation Refer to Map Number EC-08-339-R1

For Continuation Refer to Map Number EC-08-340

For Continuation Refer to Map Number EC-08-338

Legend Route in bored tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary		Watercourse Water body Woodland Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices Other notable species relevant to assessment - see Volume 5 Appendices Breeding birds - survey extent	
Map Number EC-08-339				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.	
Map Name Breeding Birds - Protected and Notable Species		Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.		Scale at A3: 1:5,000 	
Community Area 5: South Cheshire		© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.		Doc Number: C861-ARP-EV-MAP-000-078339-P03	
				Date: 14/06/17	



For Continuation Refer to Map Number EC-08-340-R1

For Continuation Refer to Map Number EC-08-338-R1

For Continuation Refer to Map Number EC-08-339

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-339-R1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 5: South Cheshire	

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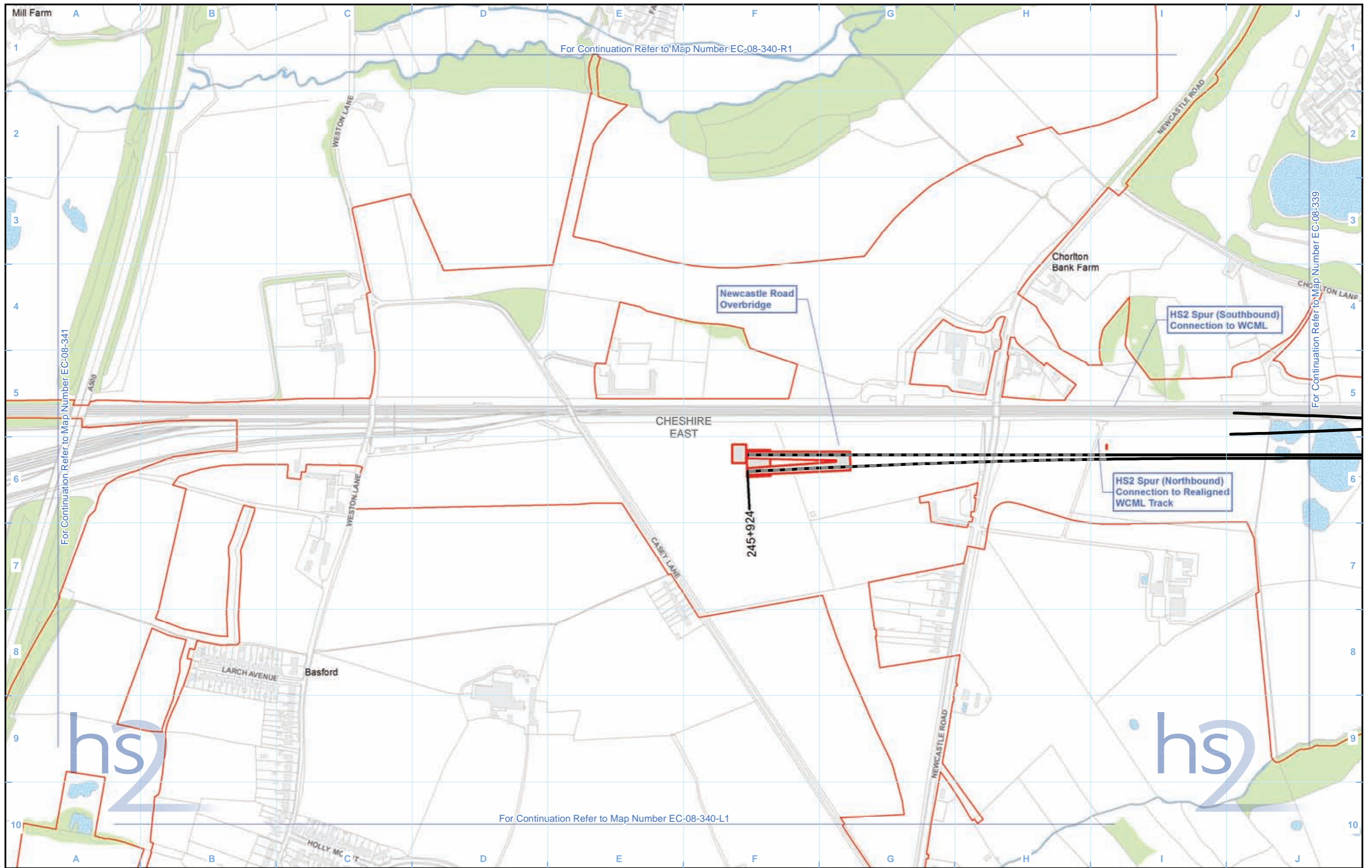
Doc Number: C861-ARP-EV-MAP-000-078439-P03

Scale at A3: 1:5,000

Metres

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Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number: EC-08-340

Map Name: Breeding Birds - Protected and Notable Species

Community Area 5: South Cheshire

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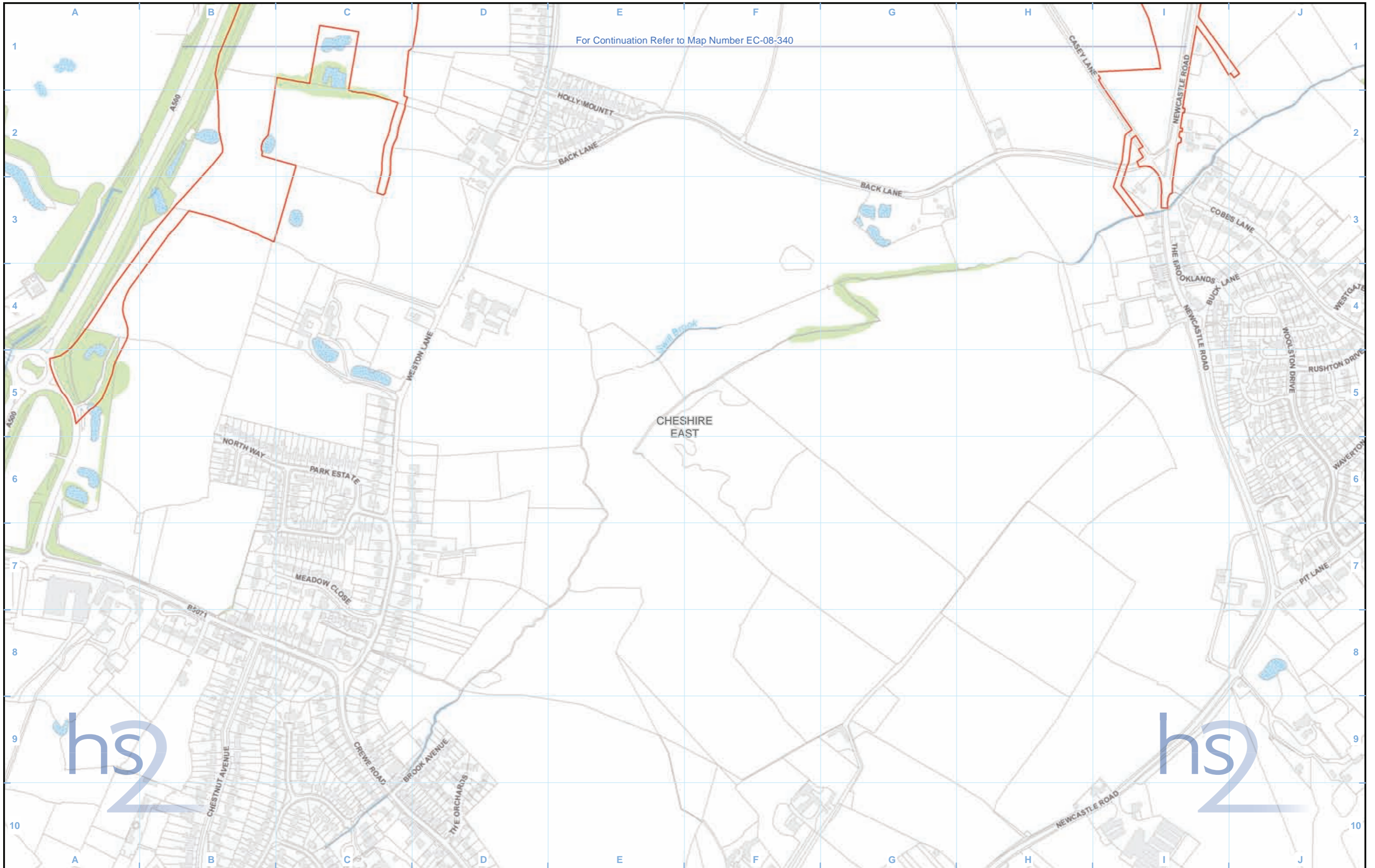
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Date: 14/06/17

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For Continuation Refer to Map Number EC-08-340



Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-340-L1
Map Name	Breeding Birds - Protected and Notable Species
Community Area 5: South Cheshire	

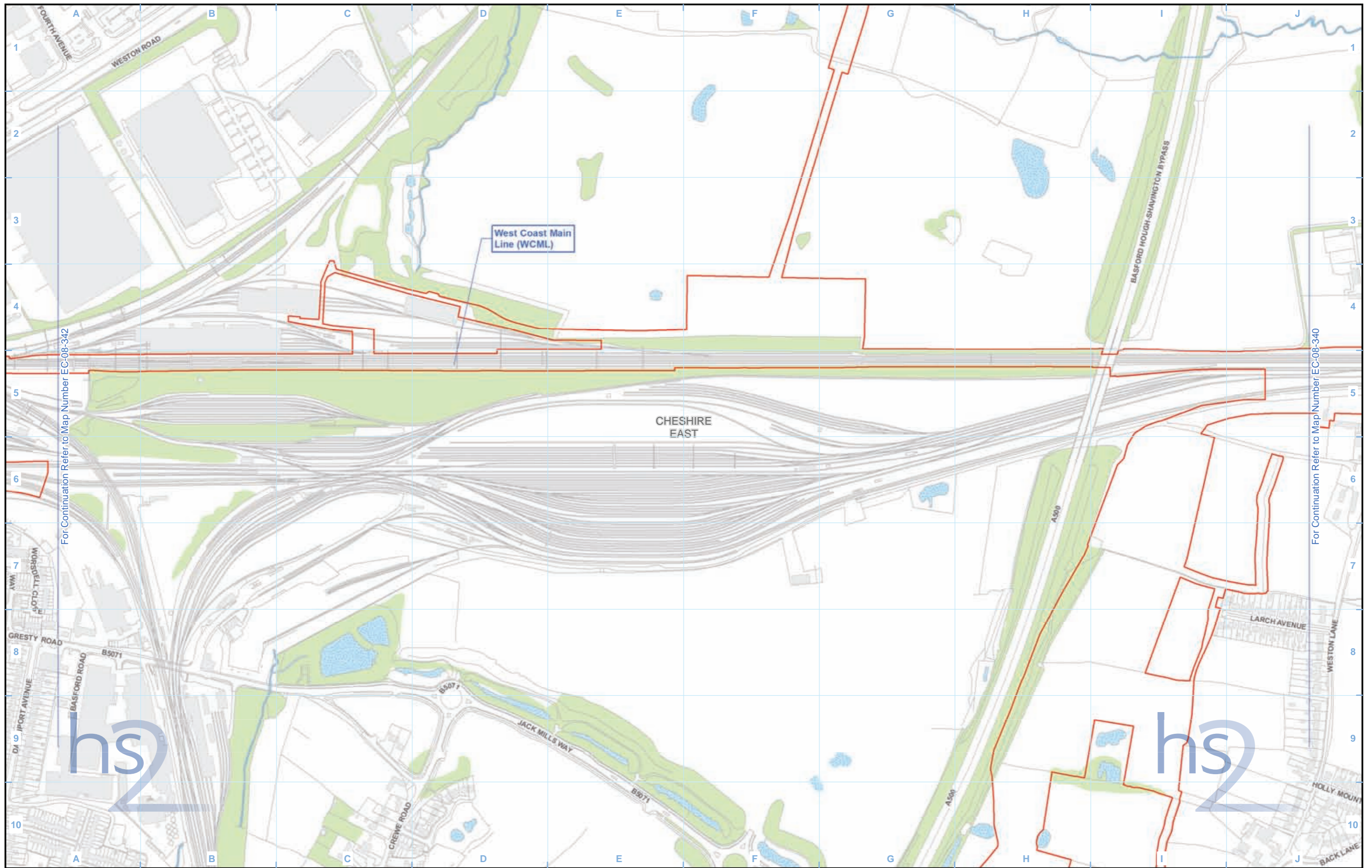
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For Continuation Refer to Map Number EC-08-342

For Continuation Refer to Map Number EC-08-340

Legend	
	Route in bored tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	County boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
	Other notable species relevant to assessment - see Volume 5 Appendices
	Breeding birds - survey extent

Map Number	EC-08-341
Map Name	Breeding Birds - Protected and Notable Species
Community Area 5: South Cheshire	

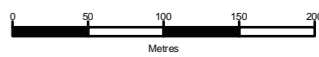


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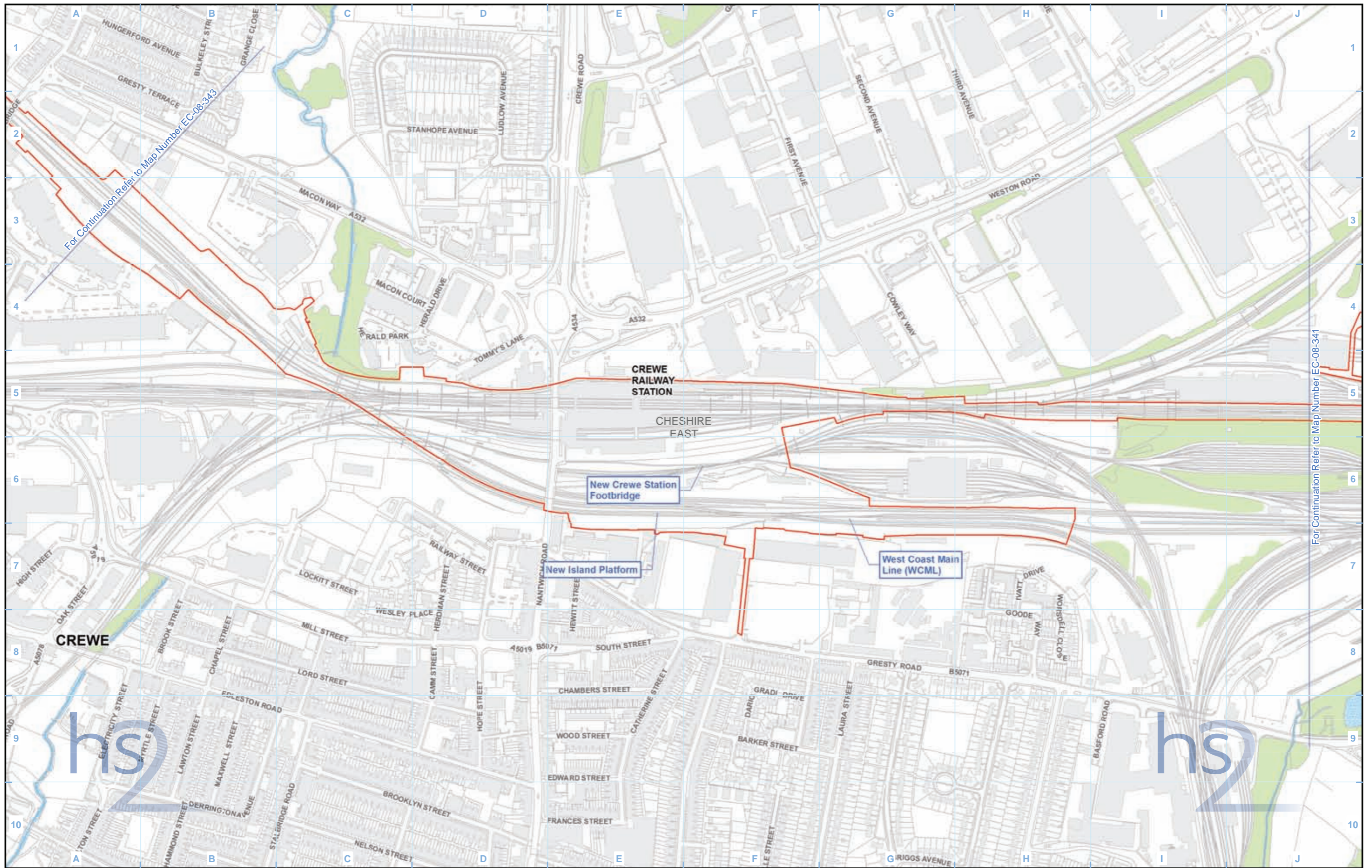
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Metres



Date: 14/06/17



For Continuation Refer to Map Number EC-08-343

For Continuation Refer to Map Number EC-08-341

Legend

- Route in bored tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Bird of Conservation Concern list relevant to assessment - see Volume 5 Appendices
- Other notable species relevant to assessment - see Volume 5 Appendices
- Breeding birds - survey extent

Map Number **EC-08-342**

Map Name **Breeding Birds - Protected and Notable Species**

Community Area 5:
South Cheshire

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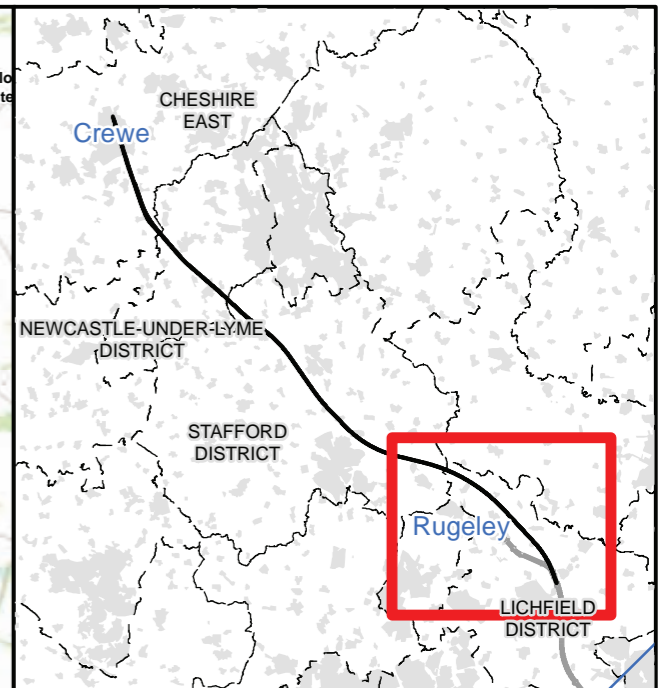
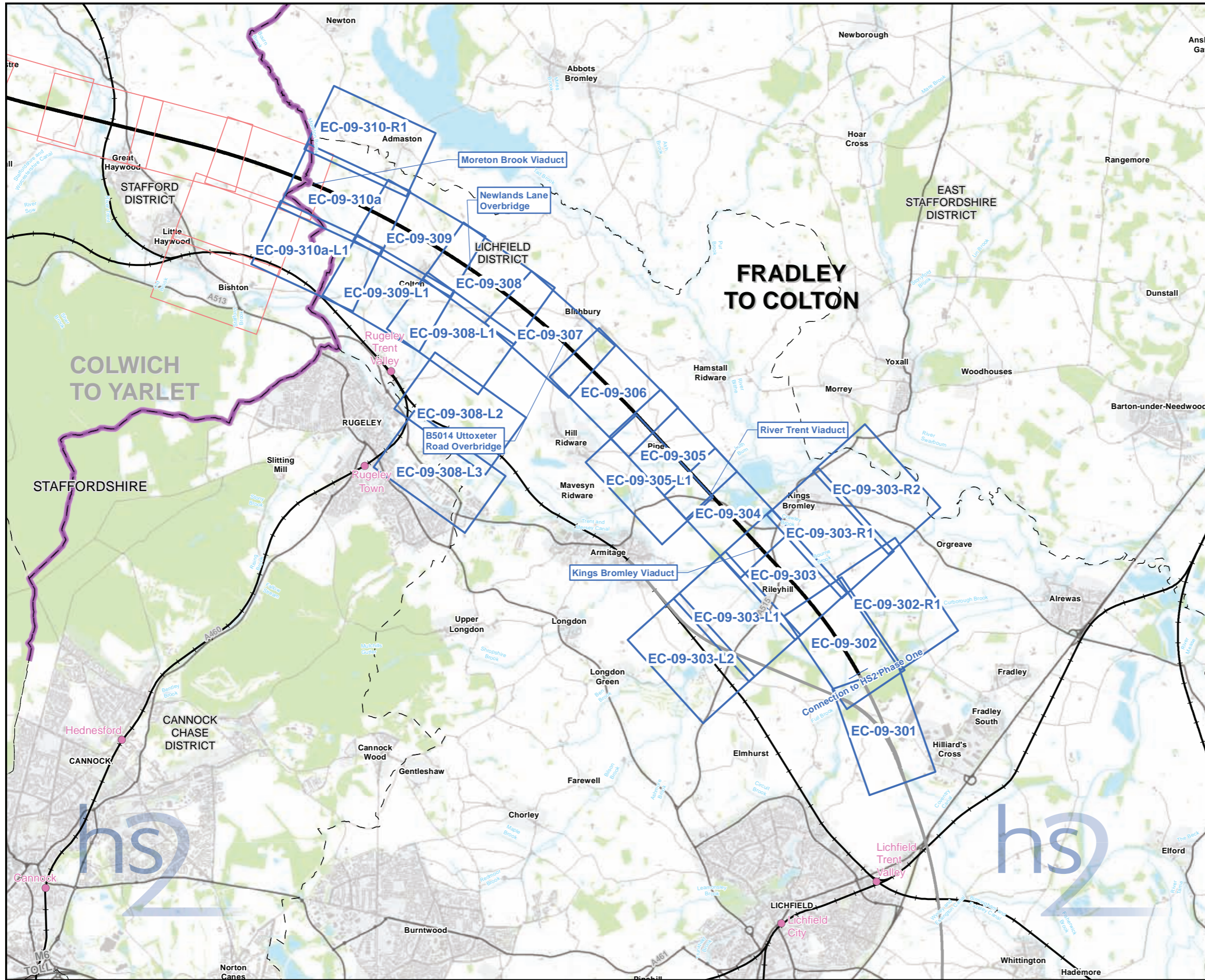
Doc Number: C861-ARP-EV-MAP-000-078342-P03

Date: 14/06/17

High Speed Two Phase 2a (West Midlands-Crewe)

Background Information and Data

EC-09 - Wintering and Passage Birds – Protected and Notable Species



Map Series Information:
 This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Main Map Legend

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

Map Number: EC-09-INDEX-CA1
 Map Name: Index Map of:
Wintering and Passage Birds – Protected and Notable Species
 Community Area 1:
 Fradley to Colton

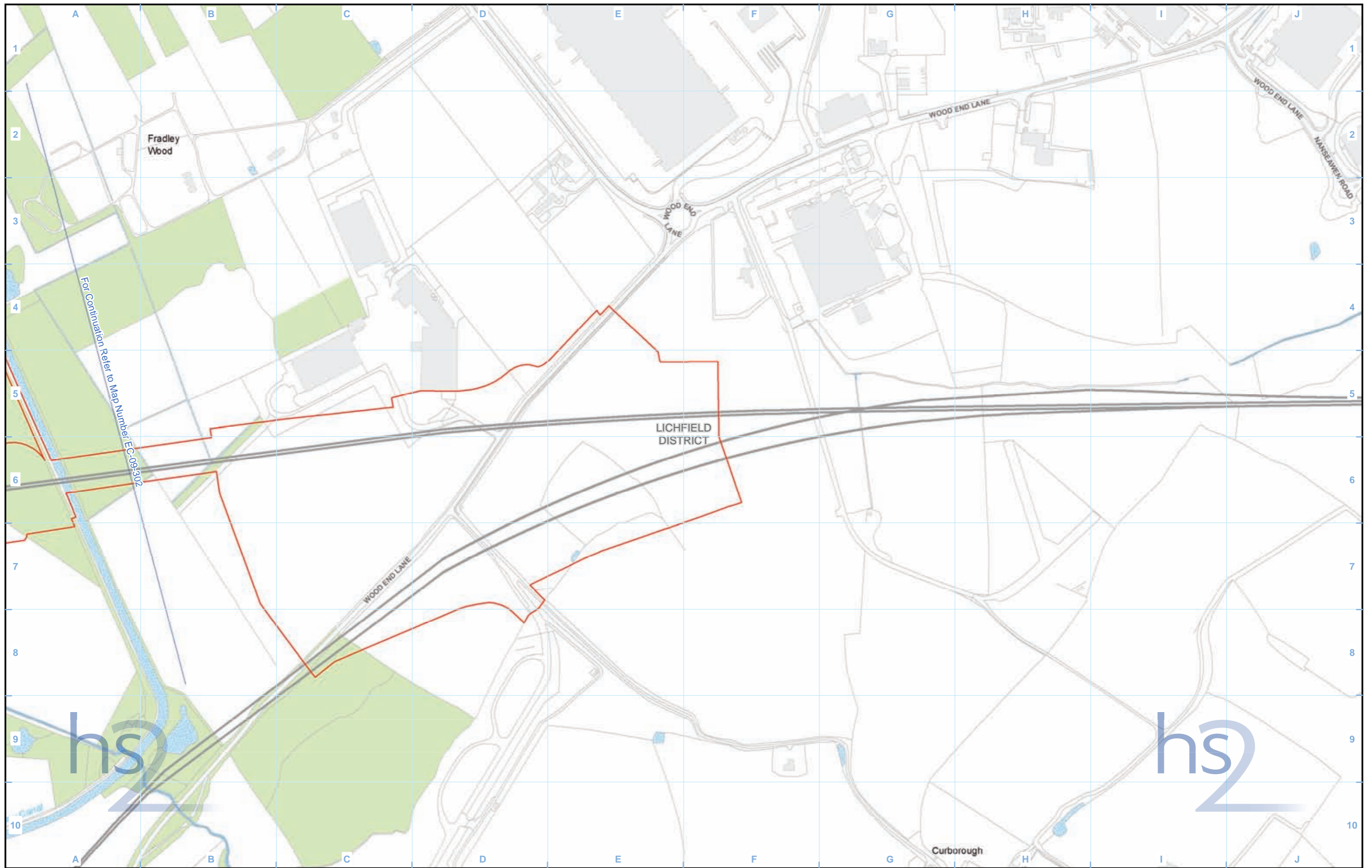
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Doc Number: C861-ARP-EV-MAP-000-079001-P03 **Date: 14/06/17**



Legend

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

- Watercourse
- Water body
- Woodland (verified by survey)

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices

- Wintering and passage birds - survey extent

Map Number: EC-09-301

Map Name: **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1: Fradley to Colton

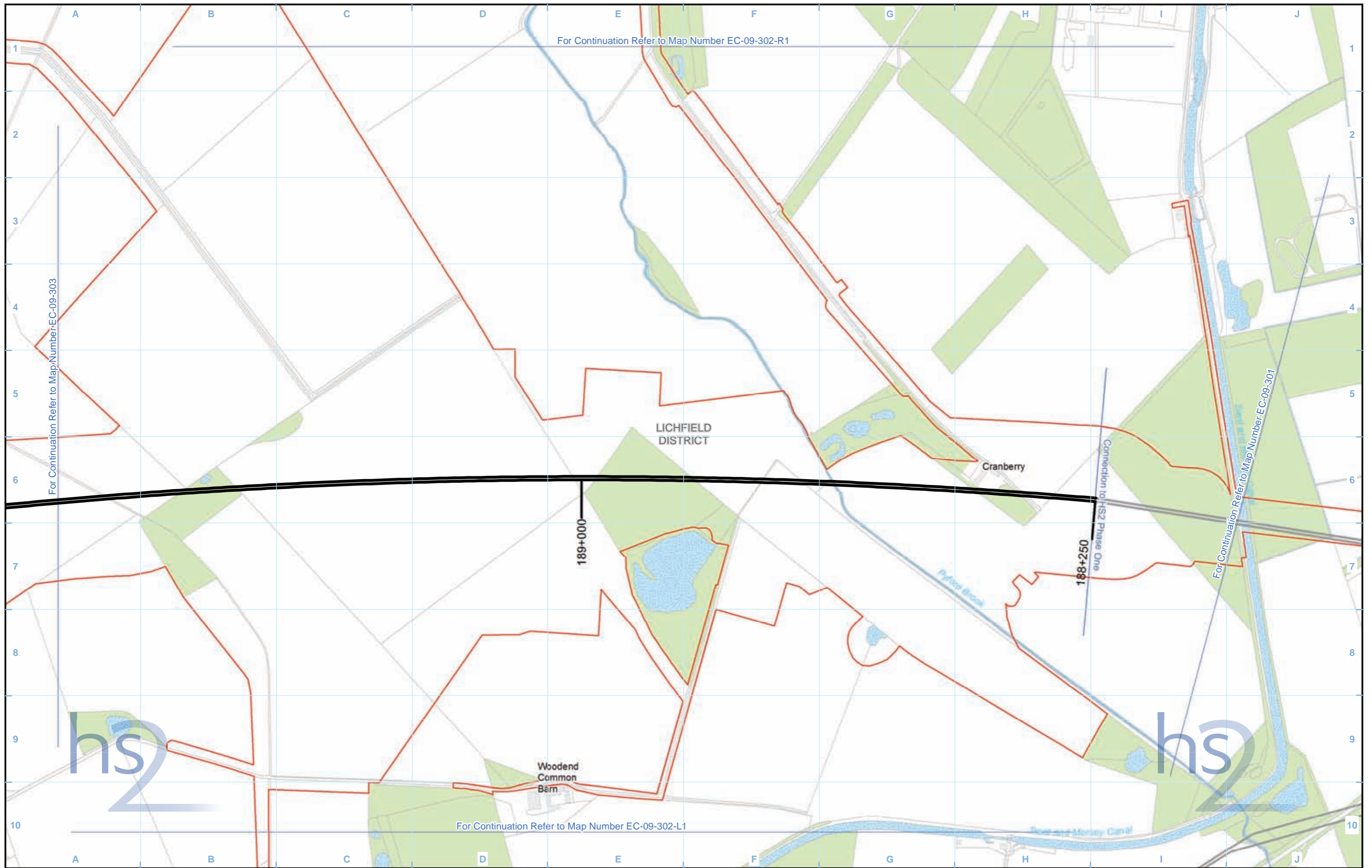
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Date: 14/06/17

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-302

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

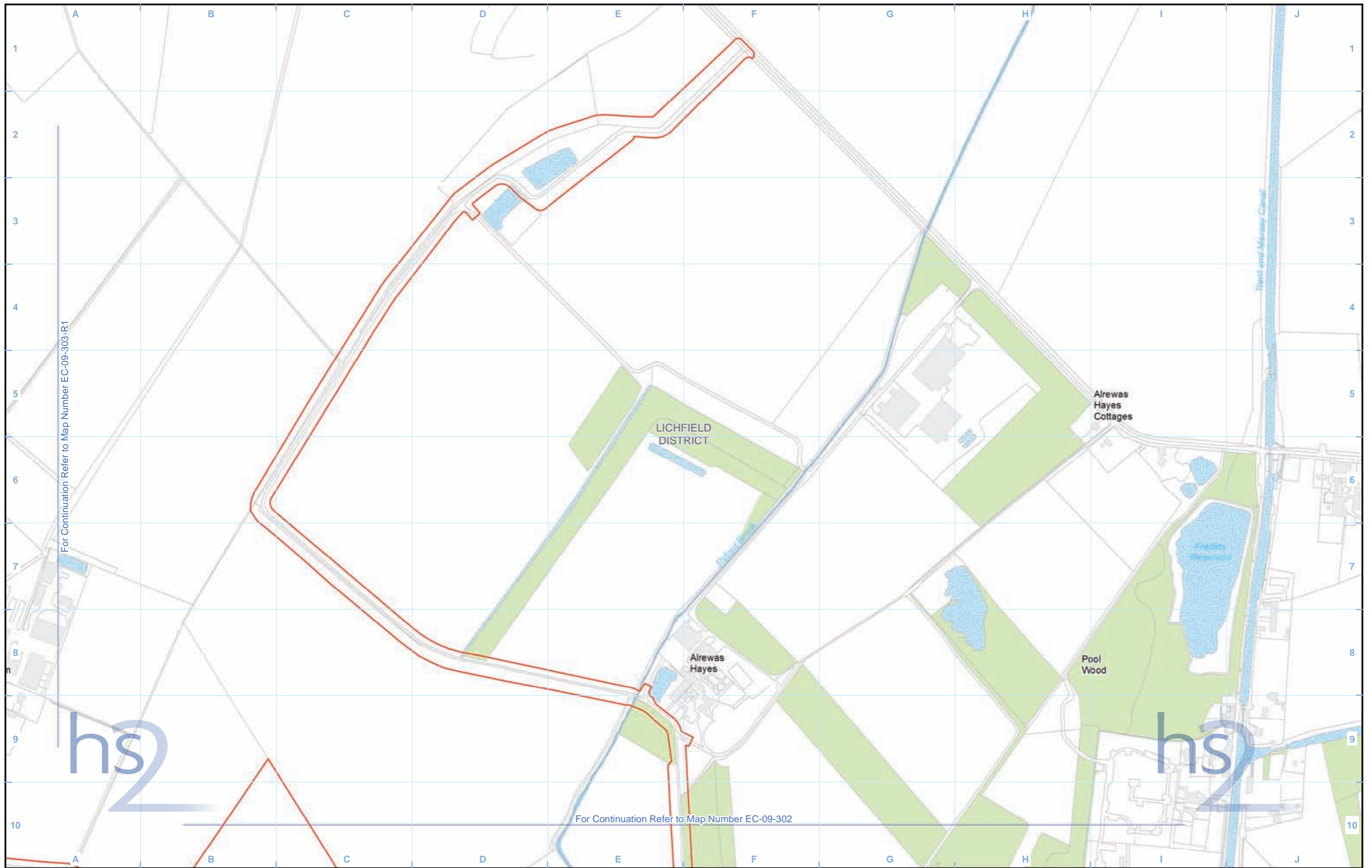
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For Continuation Refer to Map Number EC-09-302

Legend				
Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number	EC-09-302-R1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 1: Fradley to Colton	

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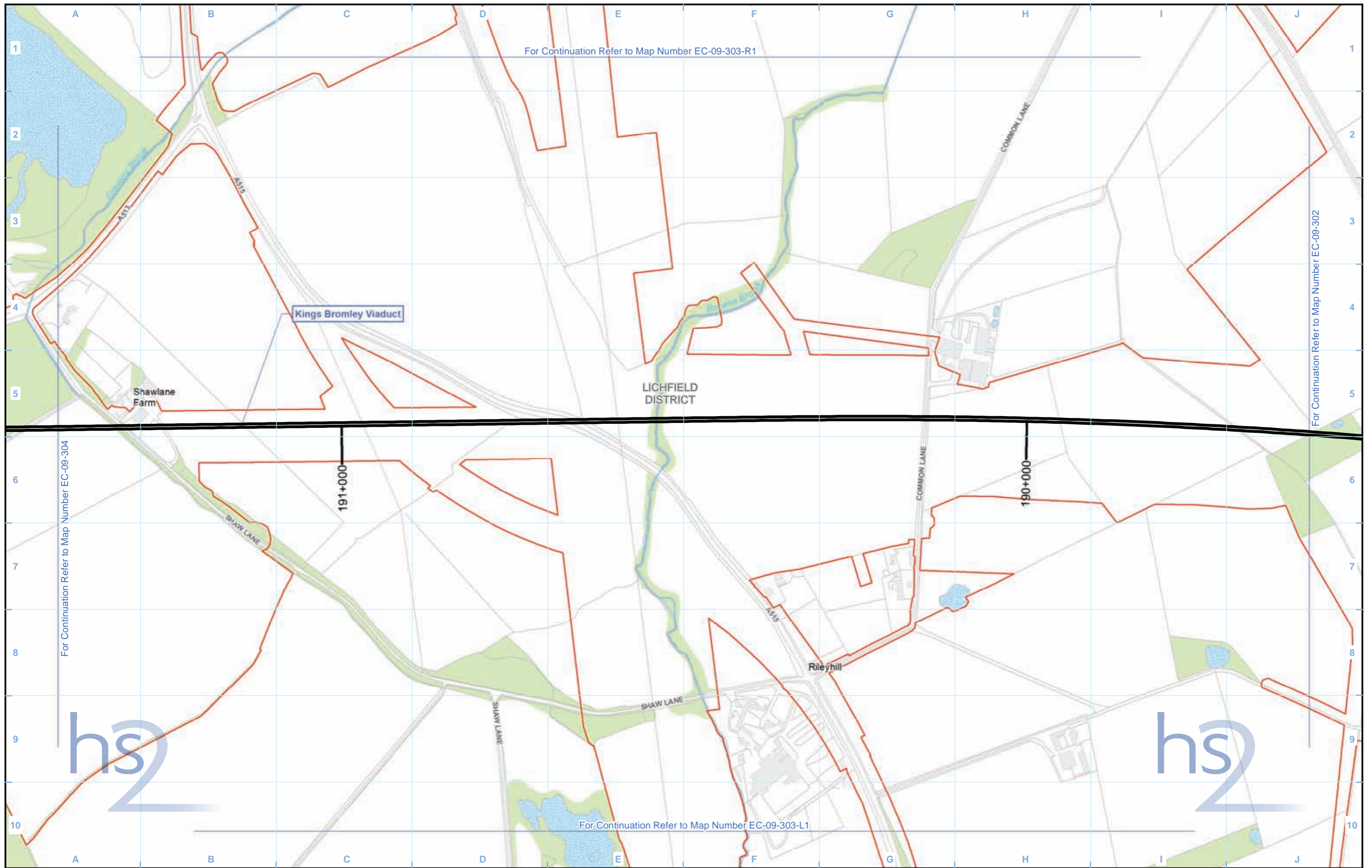
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-303

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

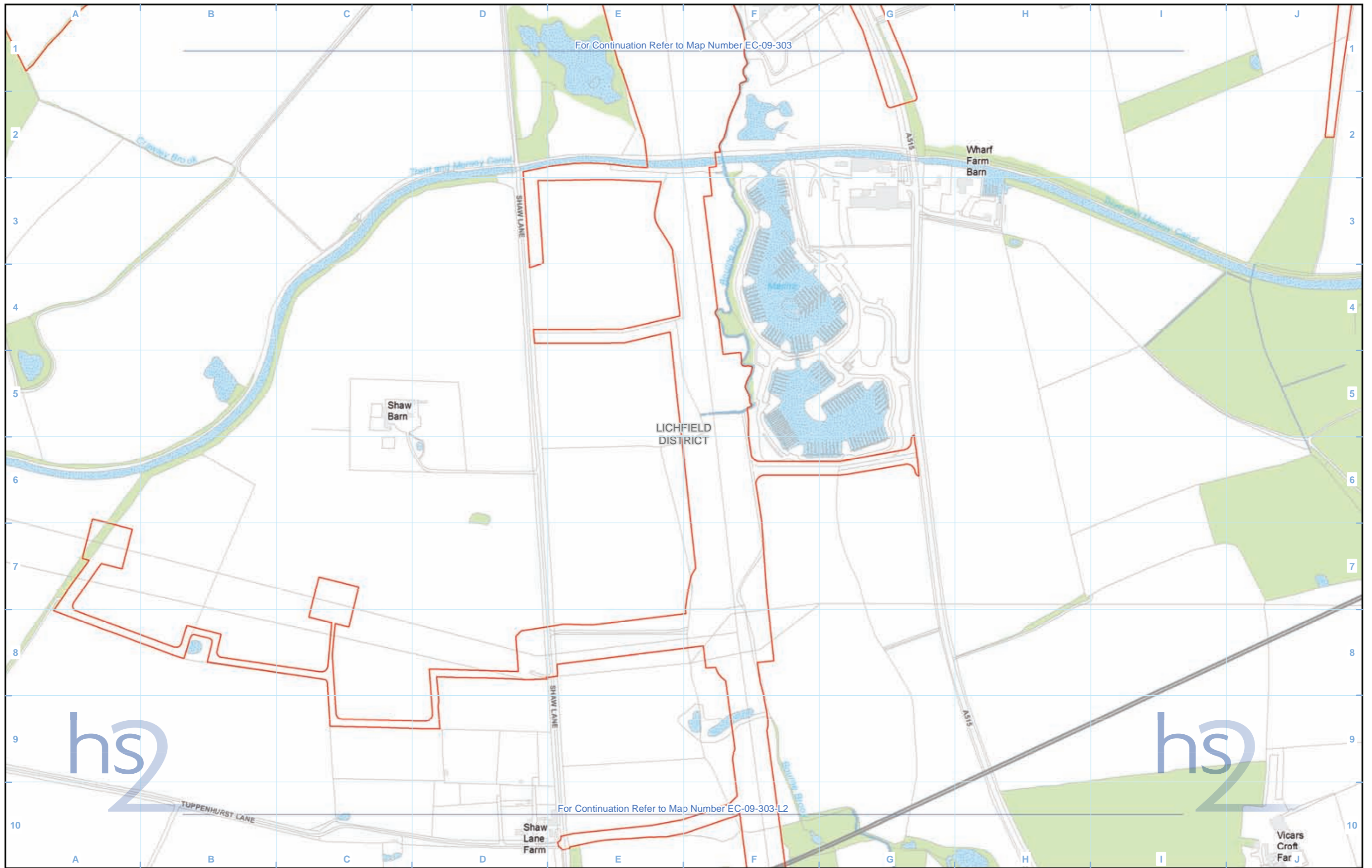
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Date: 14/06/17

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-303-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

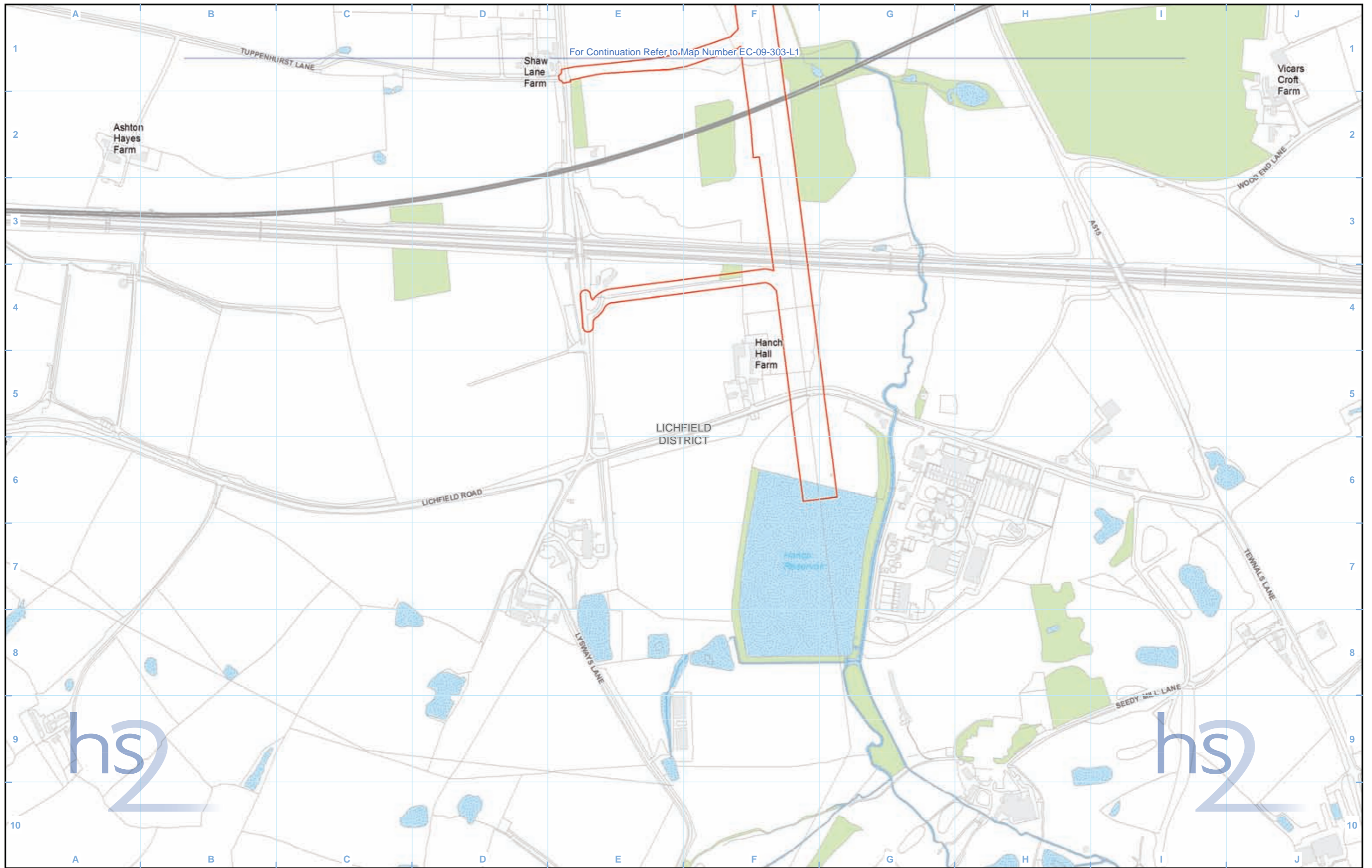
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Date: 14/06/17

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For Continuation Refer to Map Number EC-09-303-L1

Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Wintering and passage birds - survey extent
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Map Number **EC-09-303-L2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

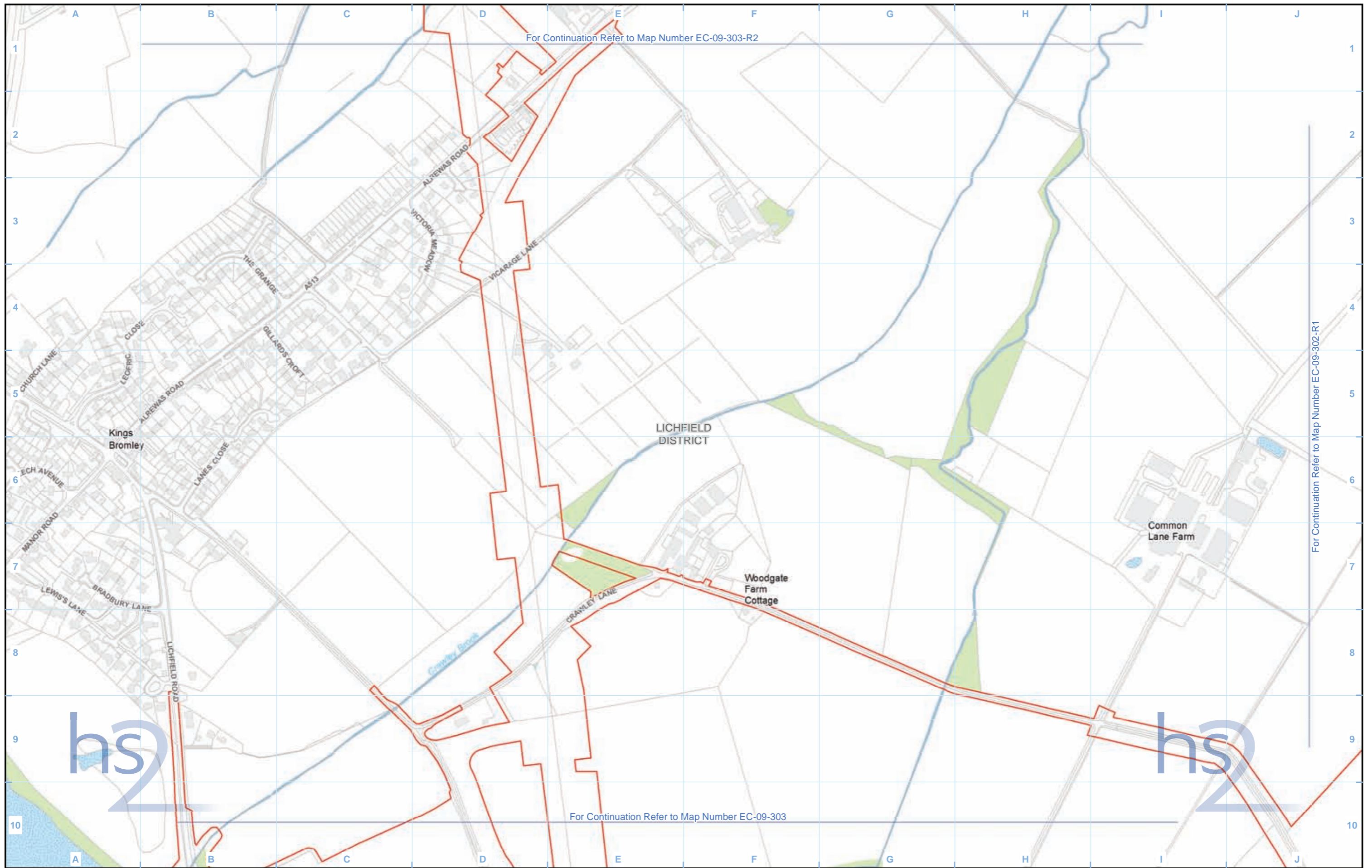
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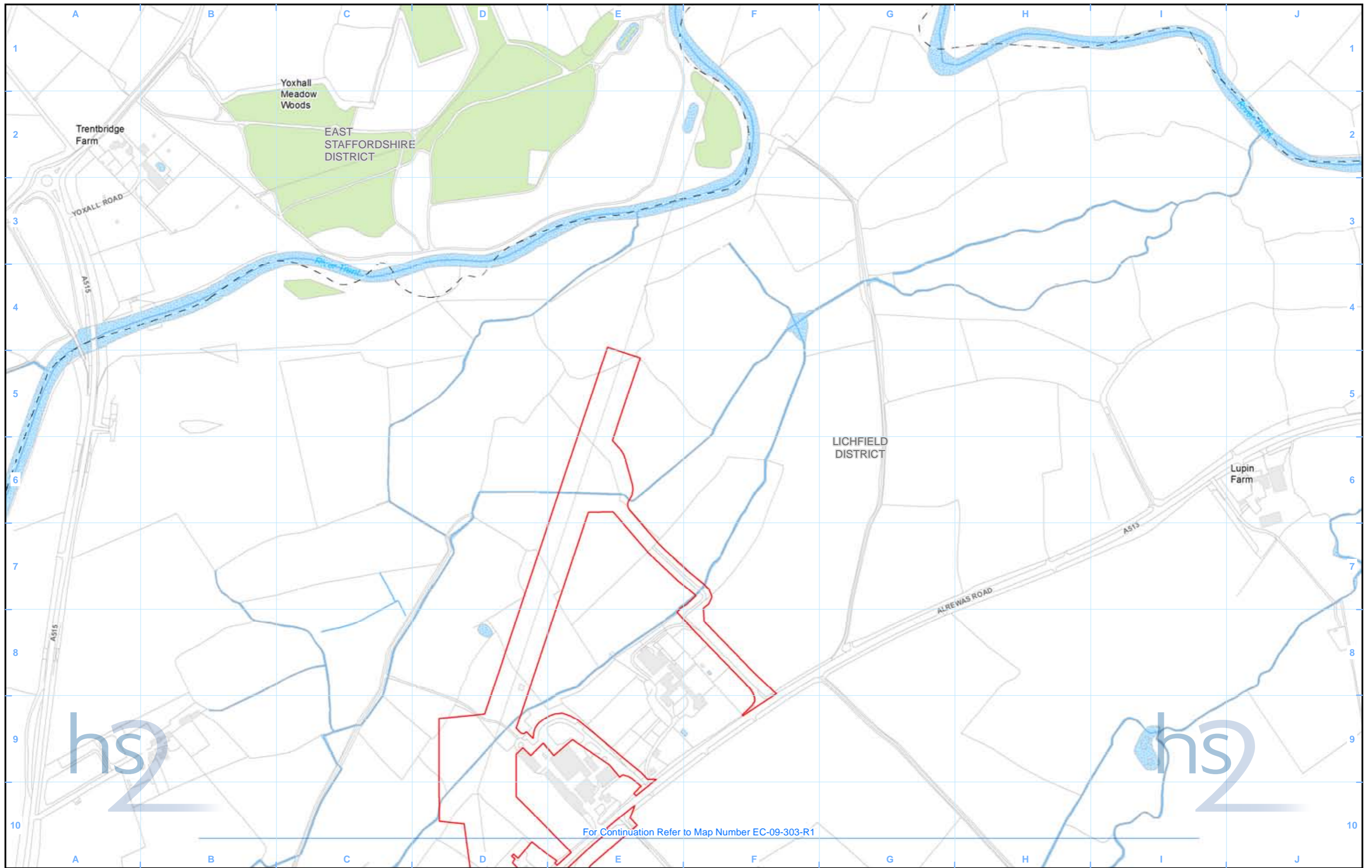
For Continuation Refer to Map Number EC-09-302-R1

For Continuation Refer to Map Number EC-09-303

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices Wintering and passage birds - survey extent	
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Map Number	EC-09-303-R1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 1: Fradley to Colton	

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For Continuation Refer to Map Number EC-09-303-R1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-303-R2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

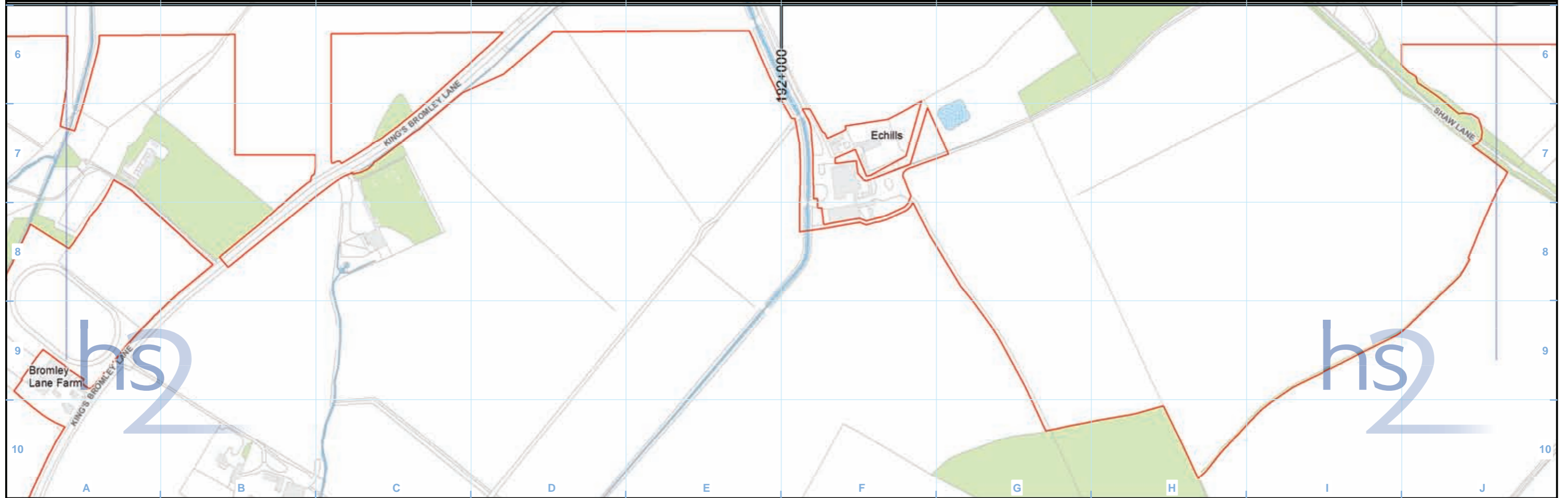
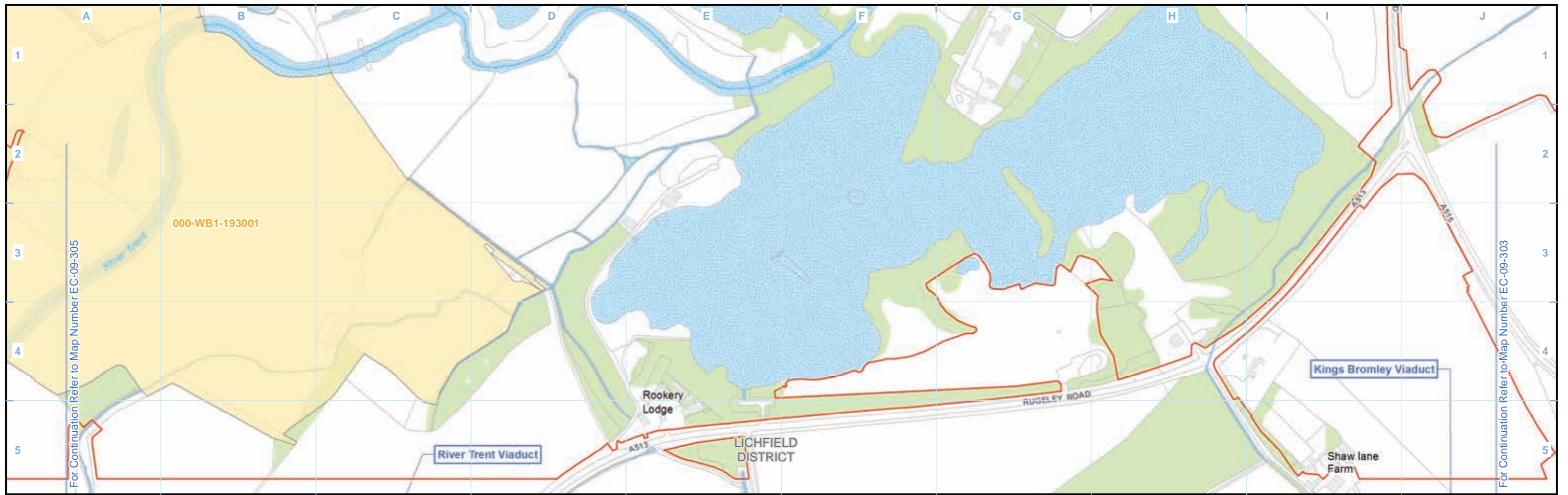
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Legend

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Map Number: EC-09-304

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

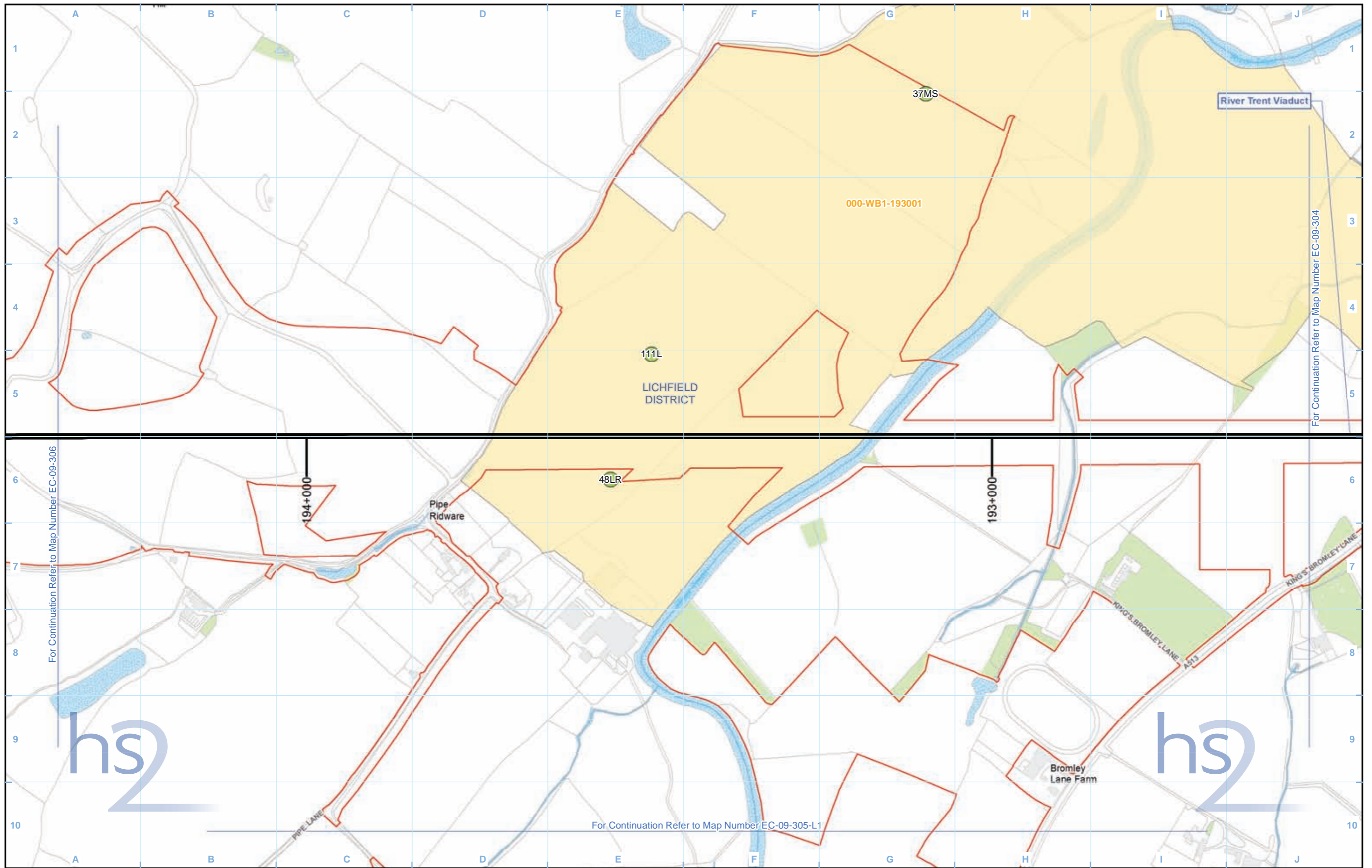
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-305

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

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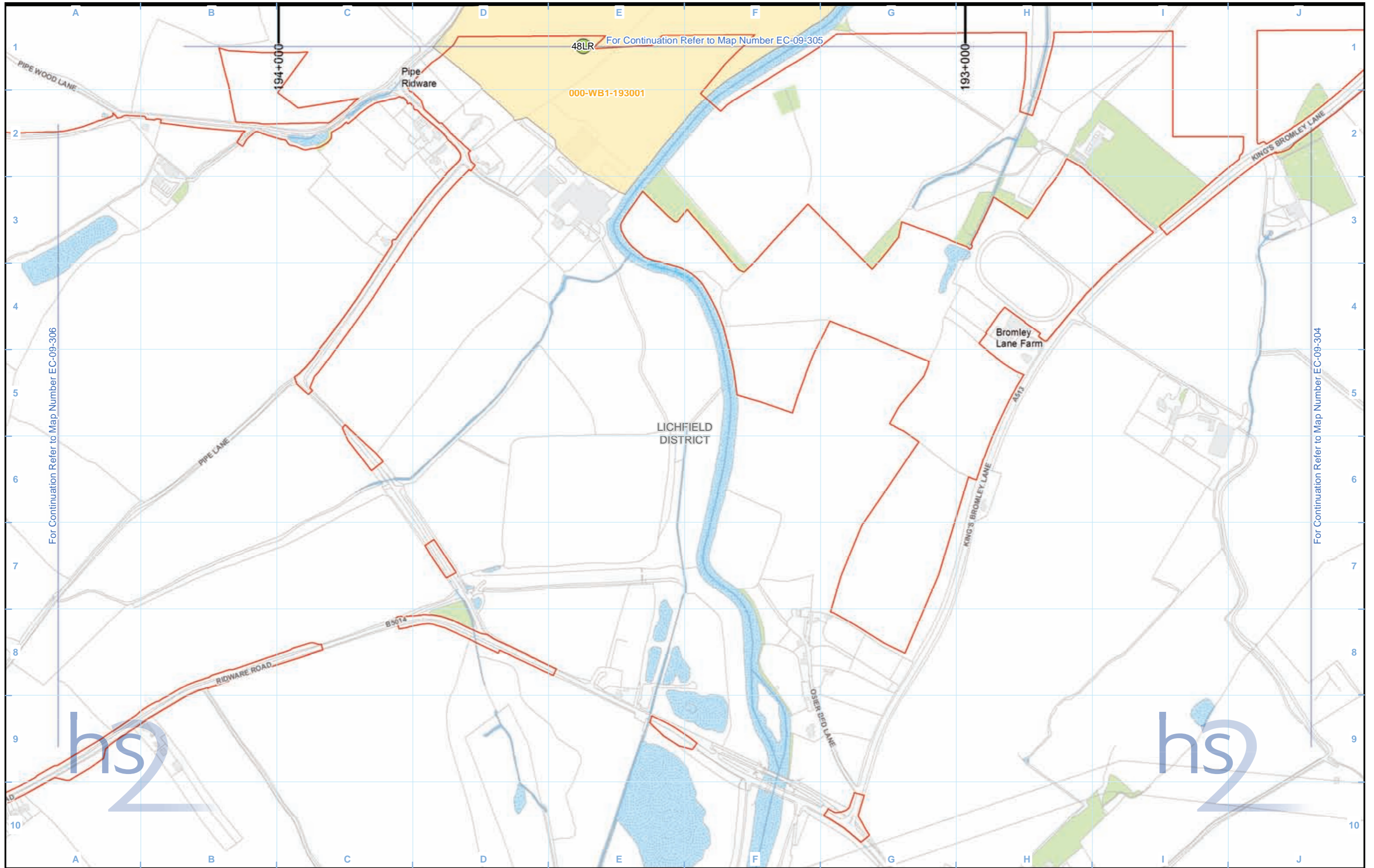
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Date: 14/06/17

For Continuation Refer to Map Number EC-09-304

For Continuation Refer to Map Number EC-09-306

For Continuation Refer to Map Number EC-09-305-L1



Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Wintering and passage birds - survey extent
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Map Number: EC-09-305-L1

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

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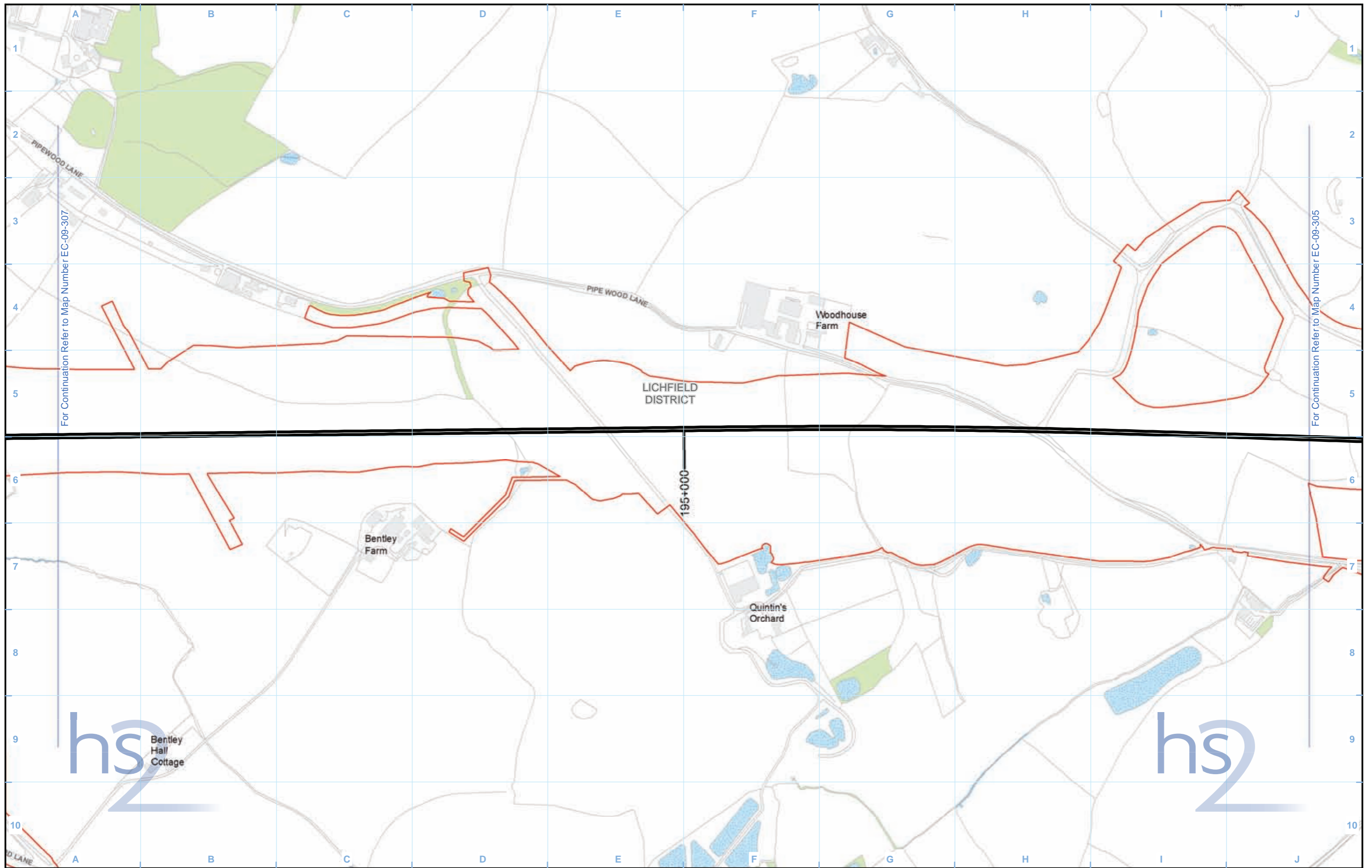
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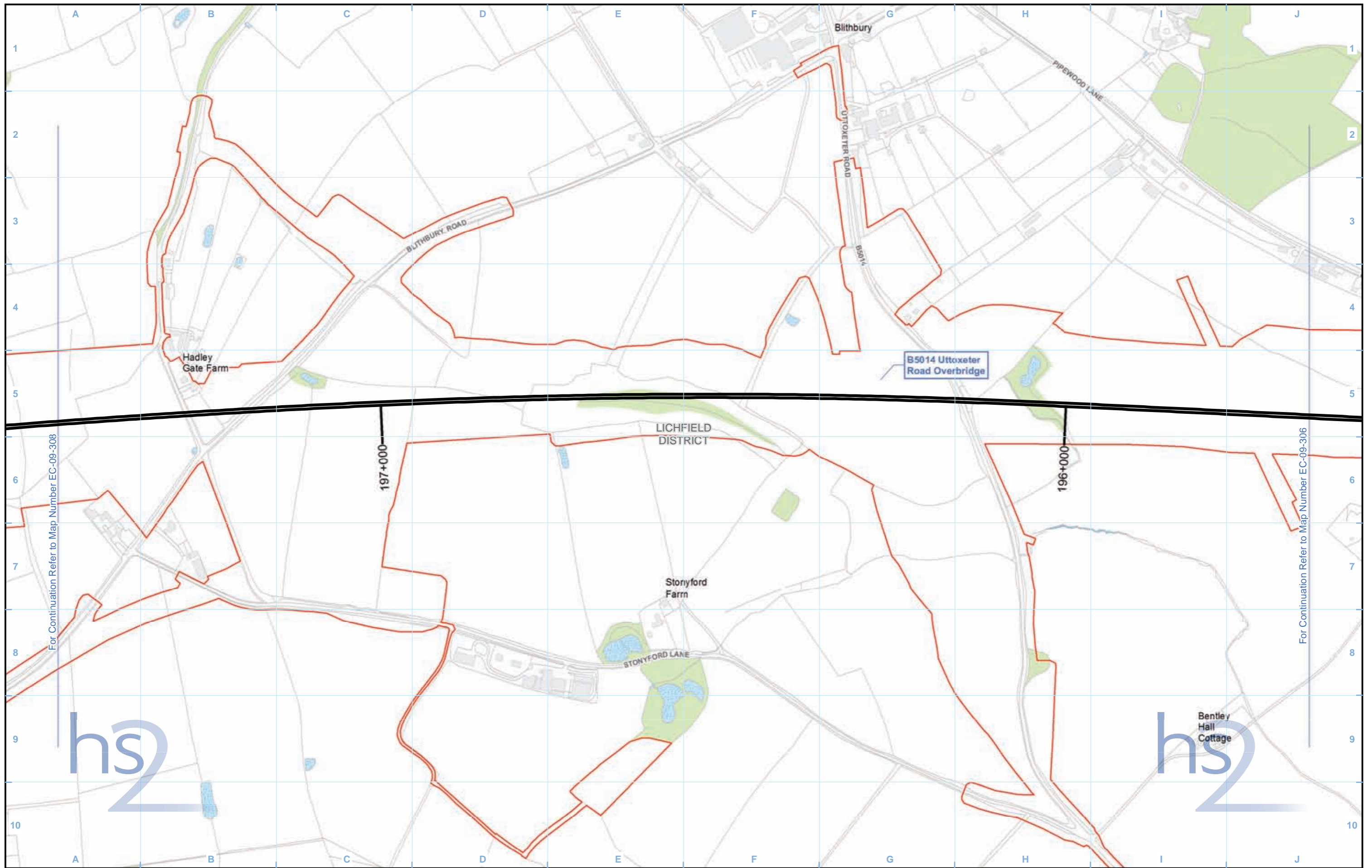


For Continuation Refer to Map Number EC-09-307

For Continuation Refer to Map Number EC-09-305

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Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices Wintering and passage birds - survey extent	
Map Number EC-09-306				<small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small>			
Map Name Wintering and Passage Birds – Protected and Notable Species		<small>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</small>		Scale at A3: 1:5,000 		<small>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</small>	
Community Area 1: Fradley to Colton		<small>Doc Number: C861-ARP-EV-MAP-000-079306-P03</small>		<small>Date: 14/06/17</small>			



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-307

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

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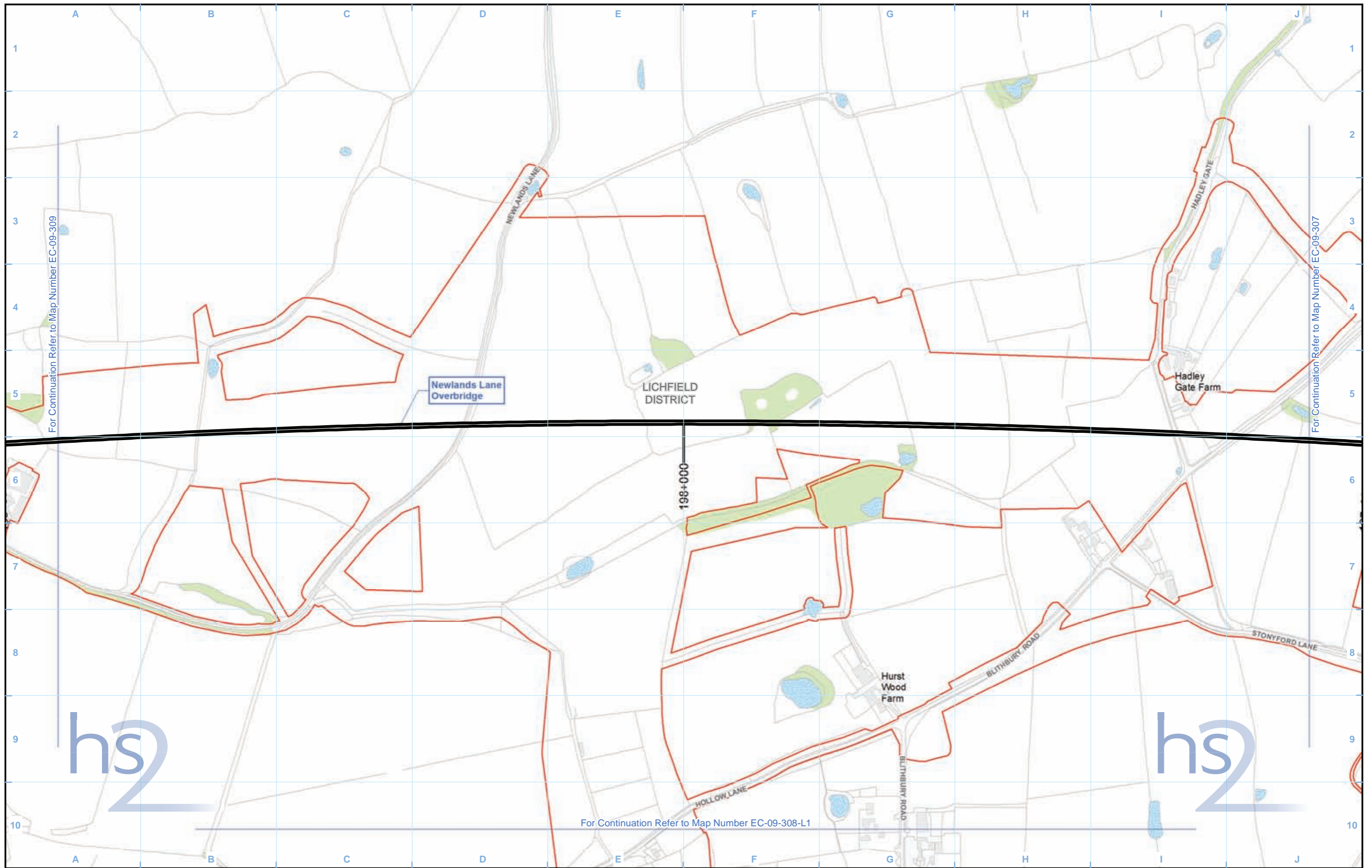
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Date: 14/06/17

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For Continuation Refer to Map Number EC-09-306



For Continuation Refer to Map Number EC-09-309

For Continuation Refer to Map Number EC-09-307

For Continuation Refer to Map Number EC-09-308-L1

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number	EC-09-308
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 1: Fradley to Colton	

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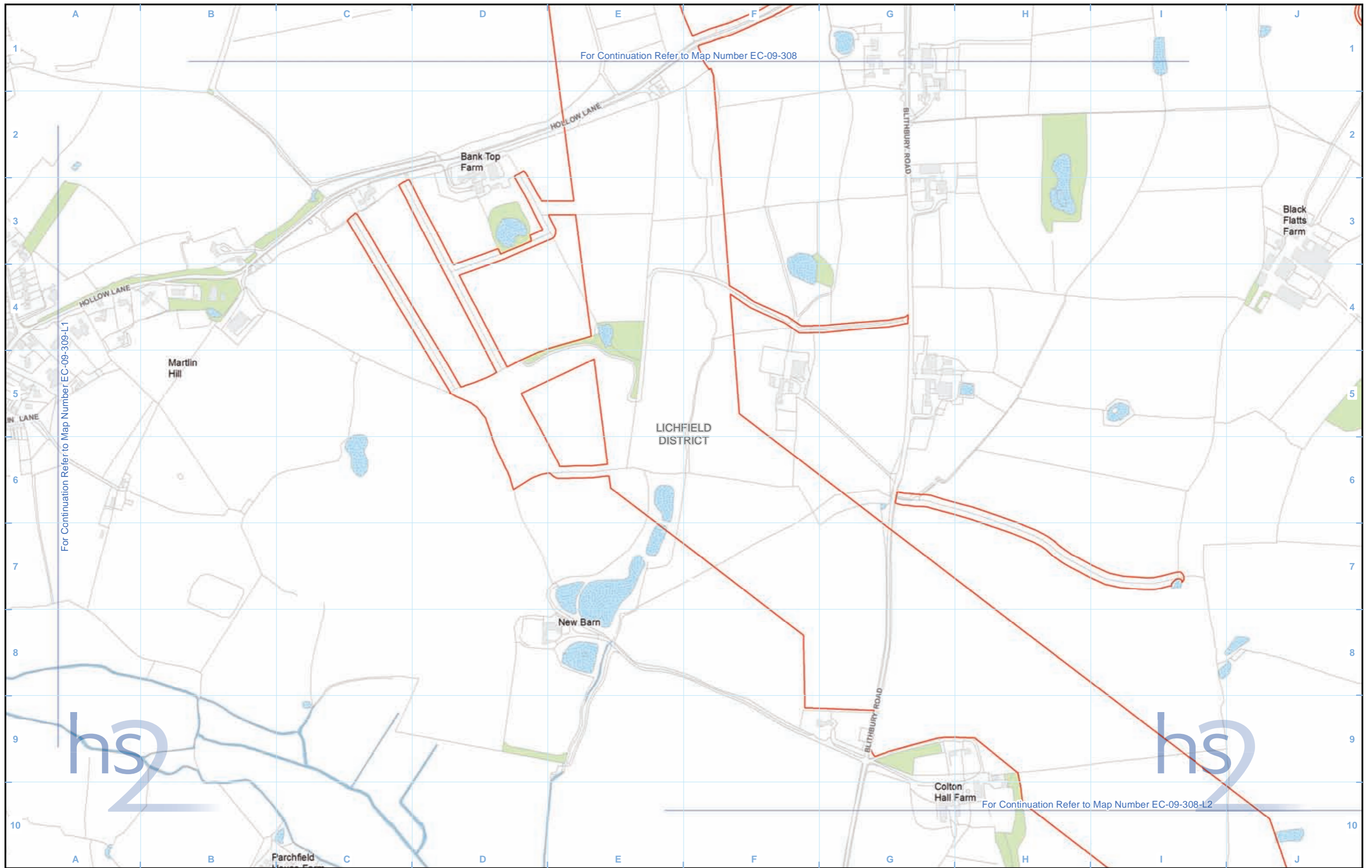
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For Continuation Refer to Map Number EC-09-309-L1

For Continuation Refer to Map Number EC-09-308-L2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-308-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

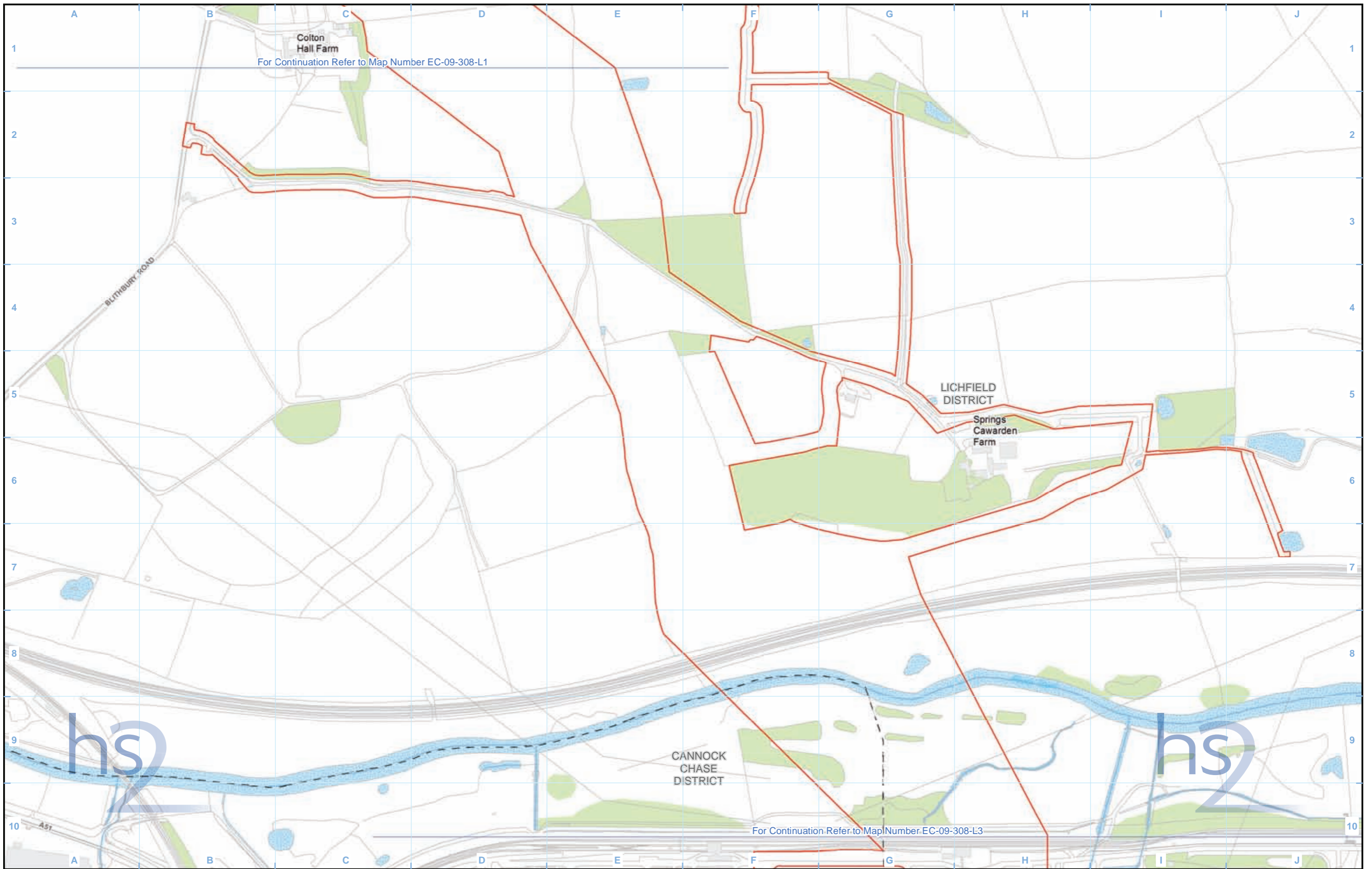
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For Continuation Refer to Map Number EC-09-308-L3

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (verified by survey)
 - Species listed on Annex I of the Birds Directive
 - Species listed on Schedule 1 of the Wildlife and Countryside Act
 - Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
 - Species listed on Birds and Conservation Concern list relevant to assessment
 - Other notable species relevant to assessment - see Volume 5 Appendices
 - Wintering and passage birds - survey extent

Map Number **EC-09-308-L2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

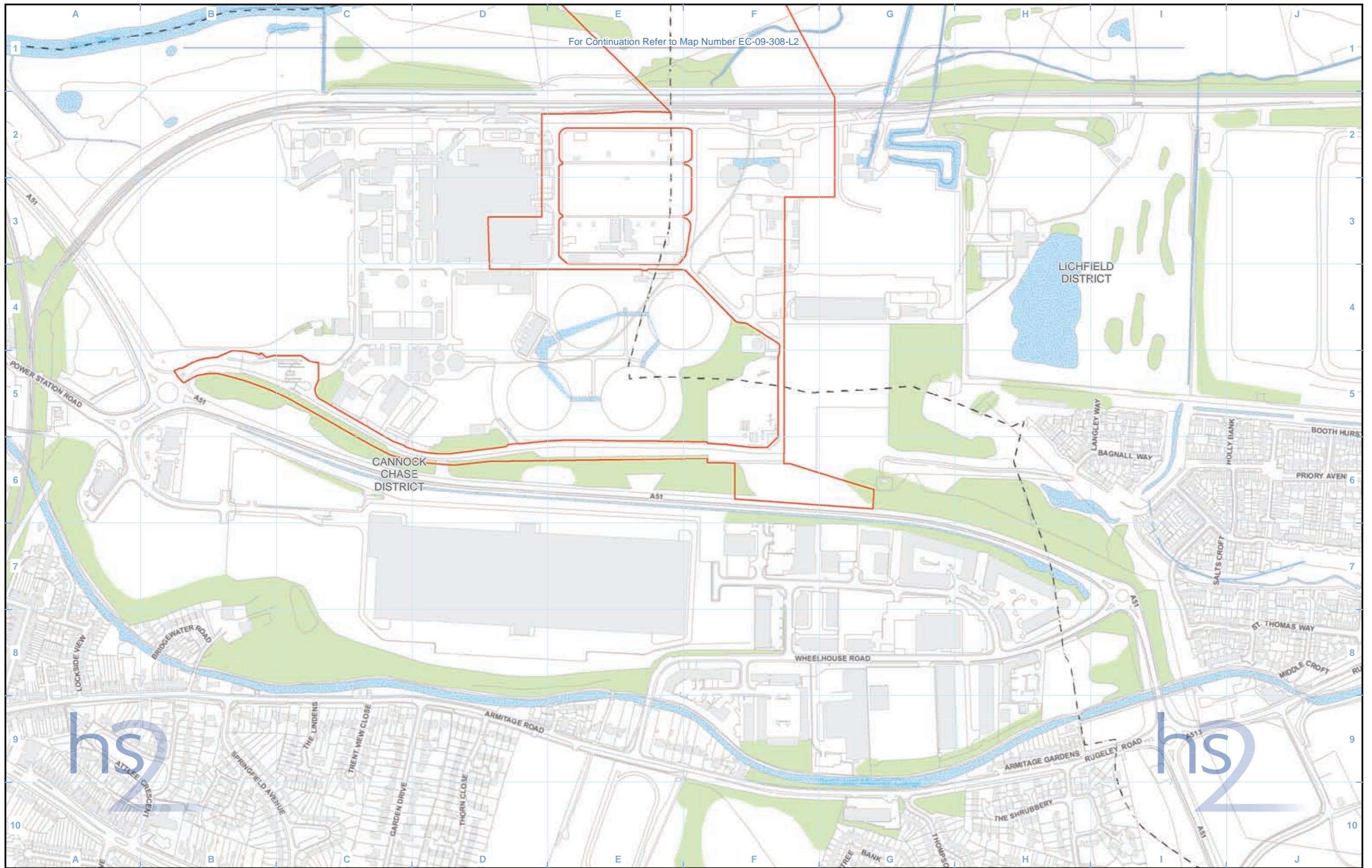
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Legend

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Map Number **EC-09-308-L3**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

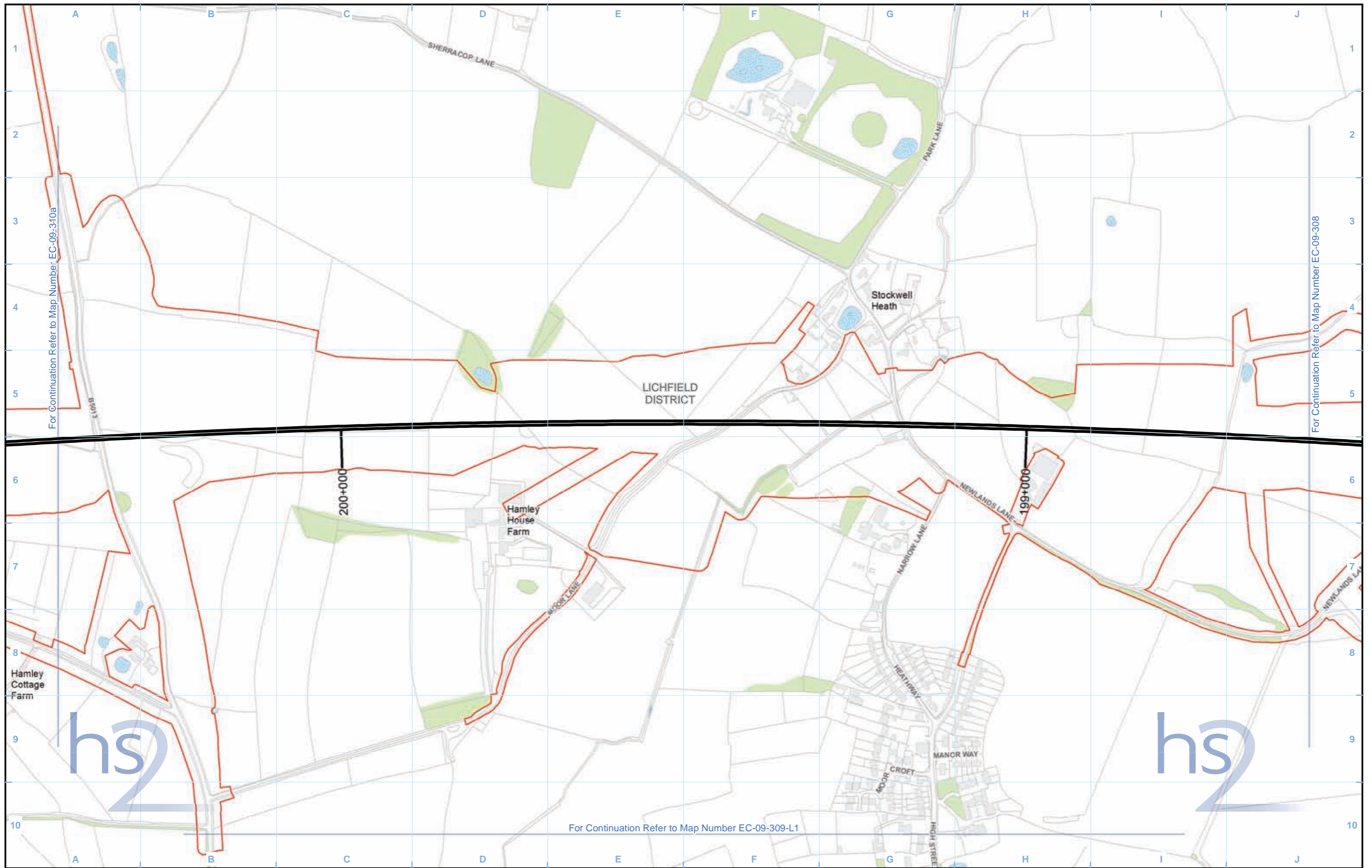
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number
EC-09-309

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 1:
Fradley to Colton

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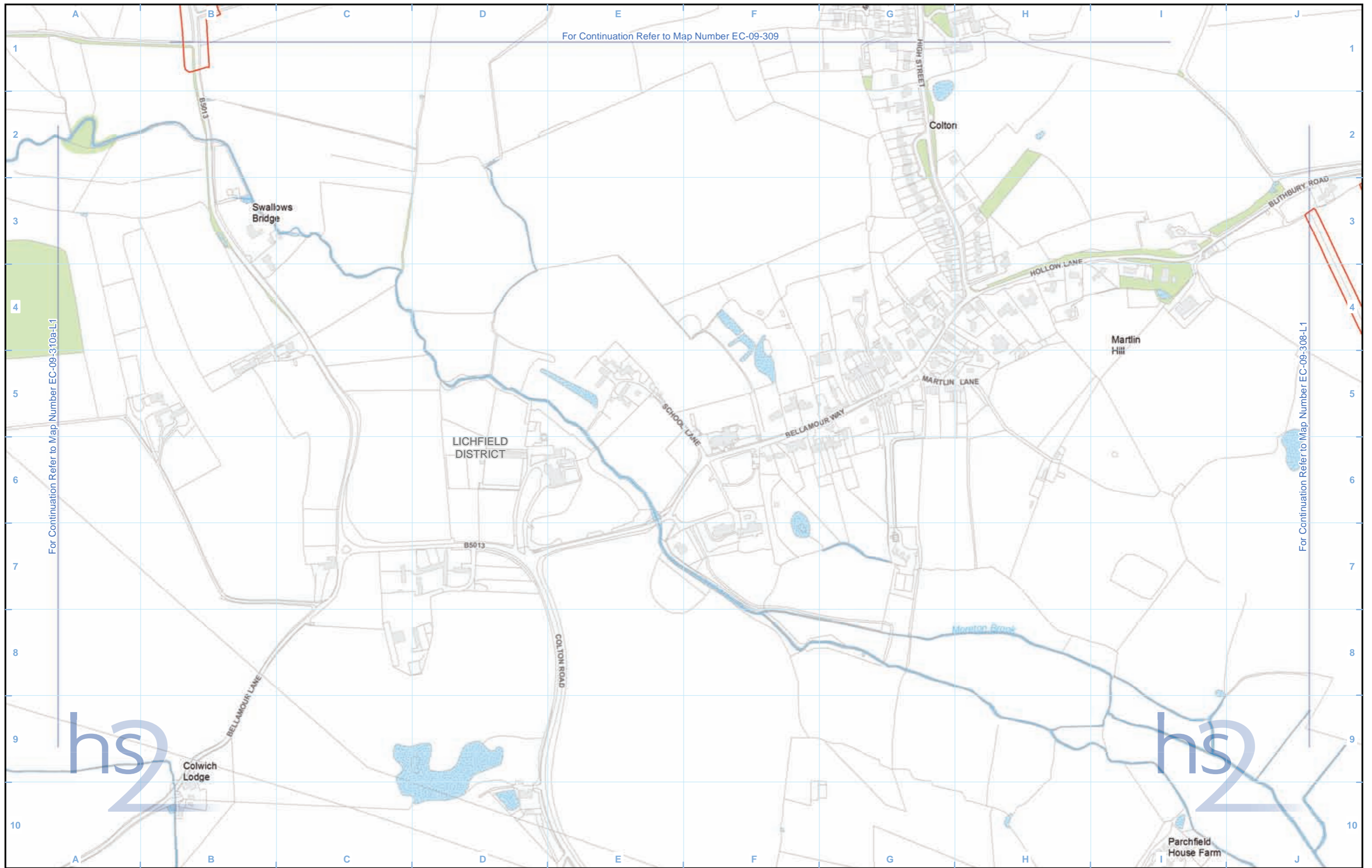
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For Continuation Refer to Map Number EC-09-310a-L1

For Continuation Refer to Map Number EC-09-308-L1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-309-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

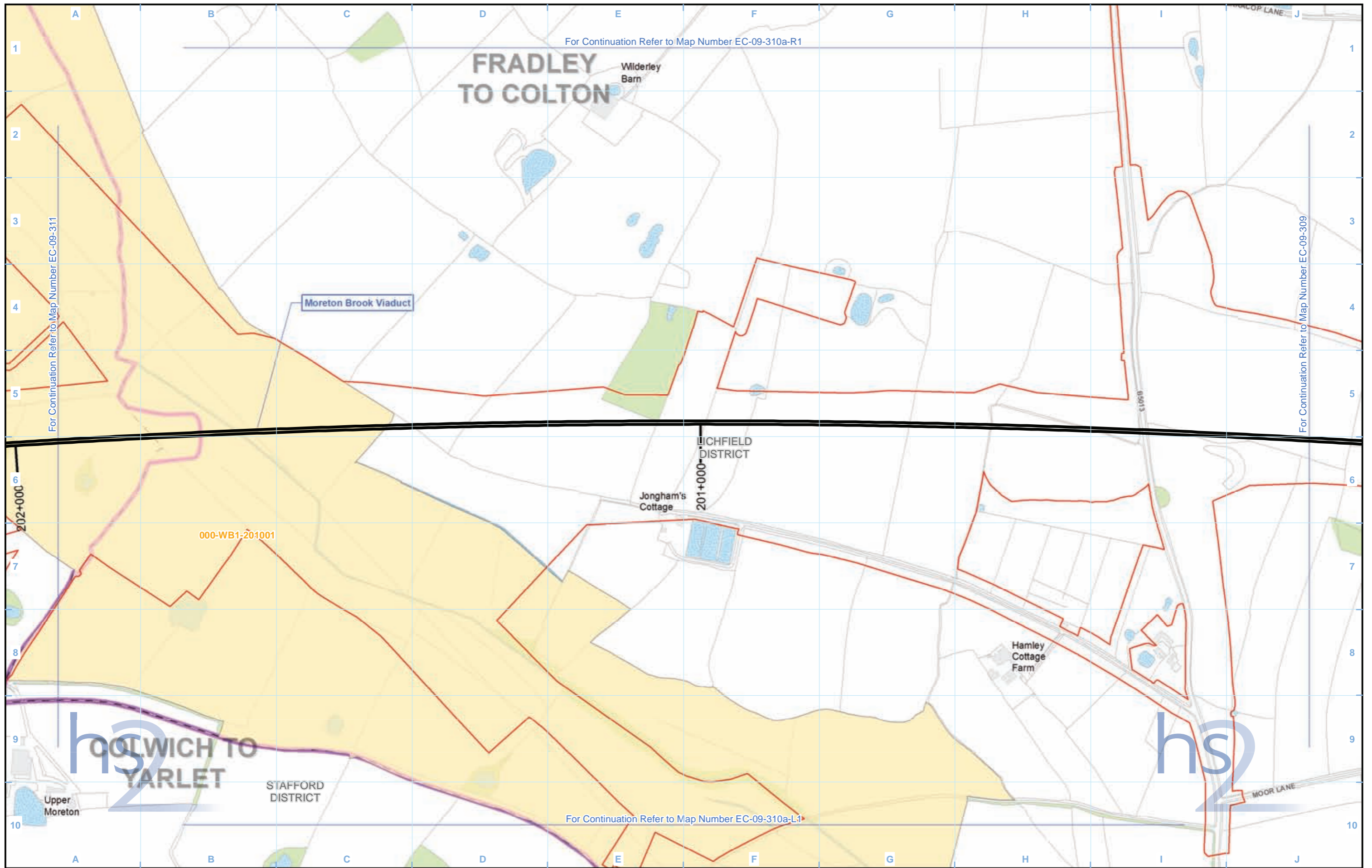
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-310a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 1: Fradley to Colton

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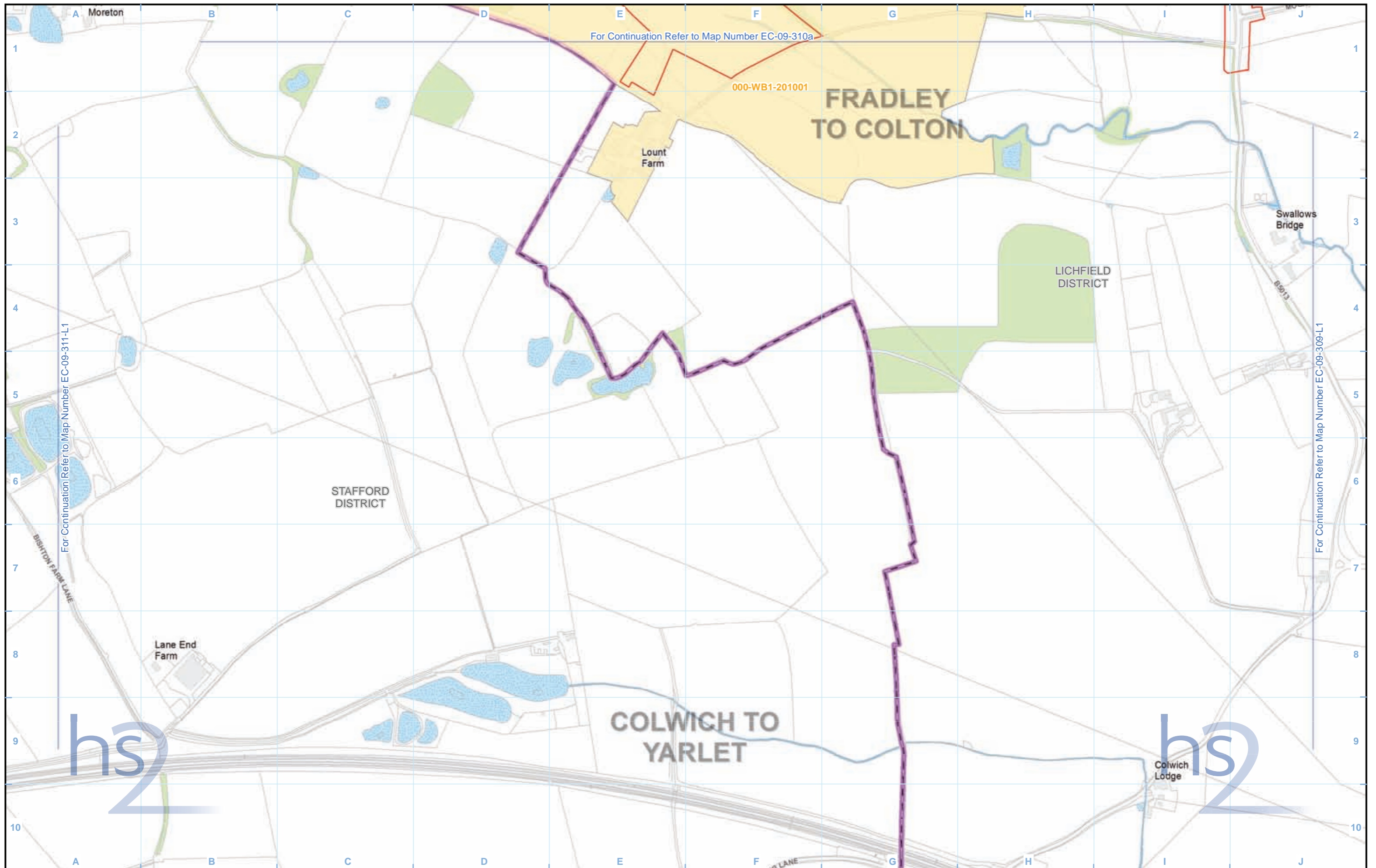
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Date: 14/06/17



Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Birds and Conservation Concern list relevant to assessment
	Other notable species relevant to assessment - see Volume 5 Appendices
	Wintering and passage birds - survey extent

Map Number	EC-09-310a-L1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 1:	Fradley to Colton

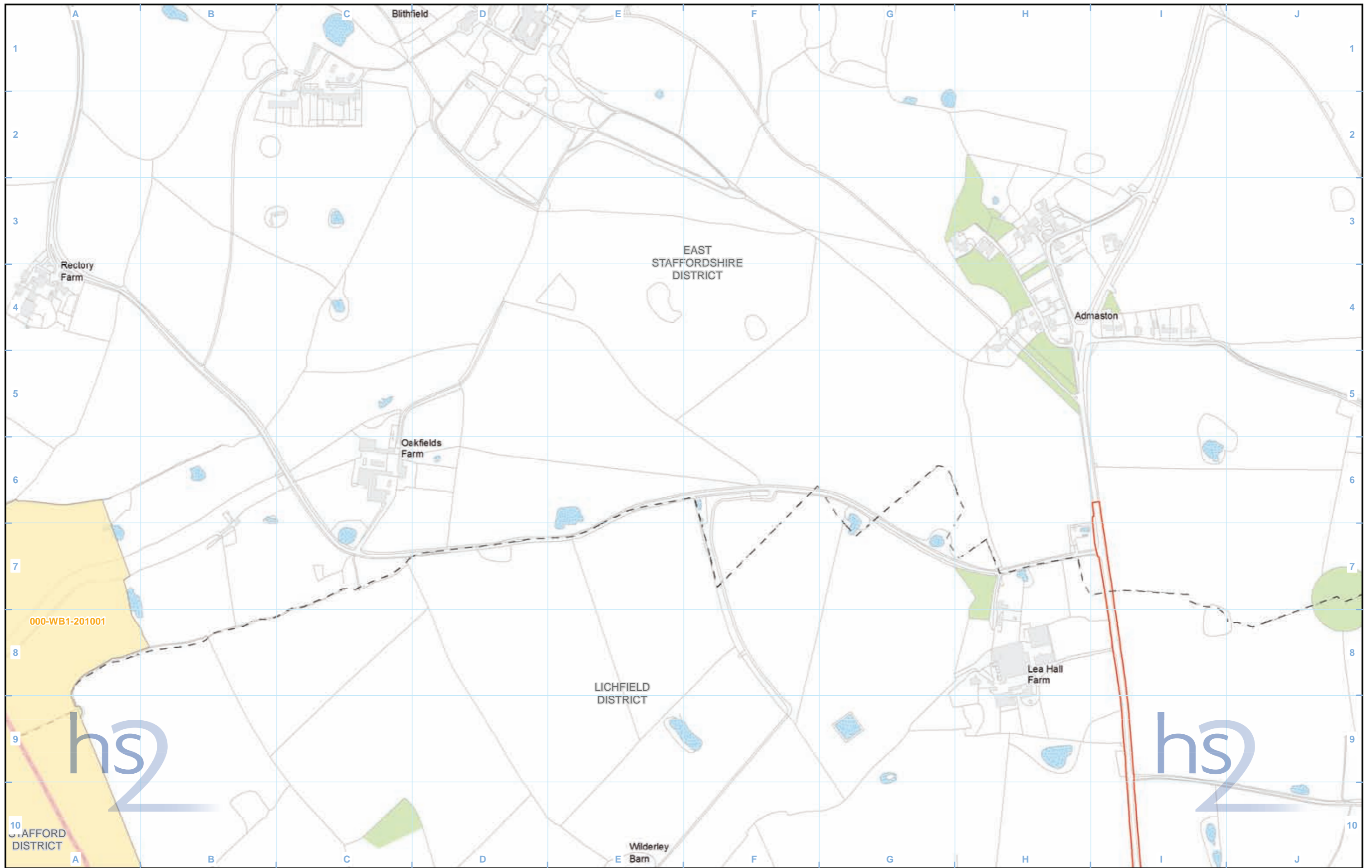
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-310-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 1:
Fradley to Colton

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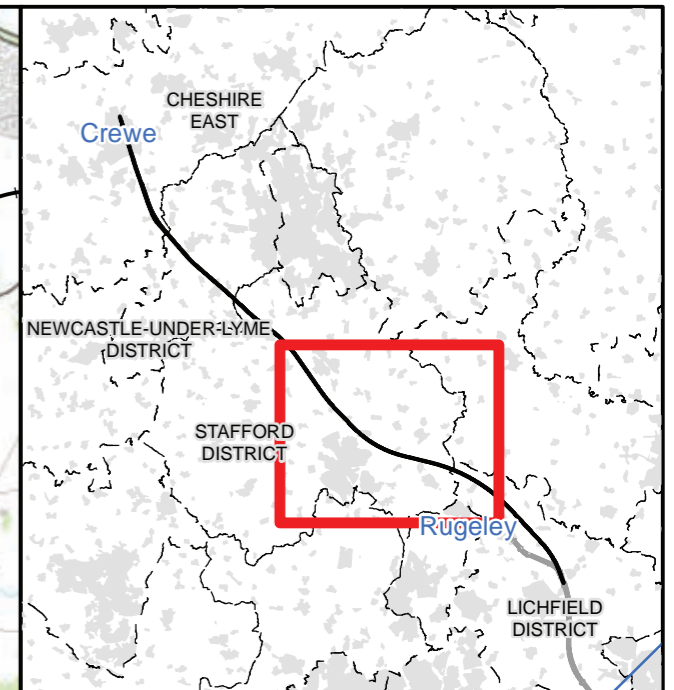
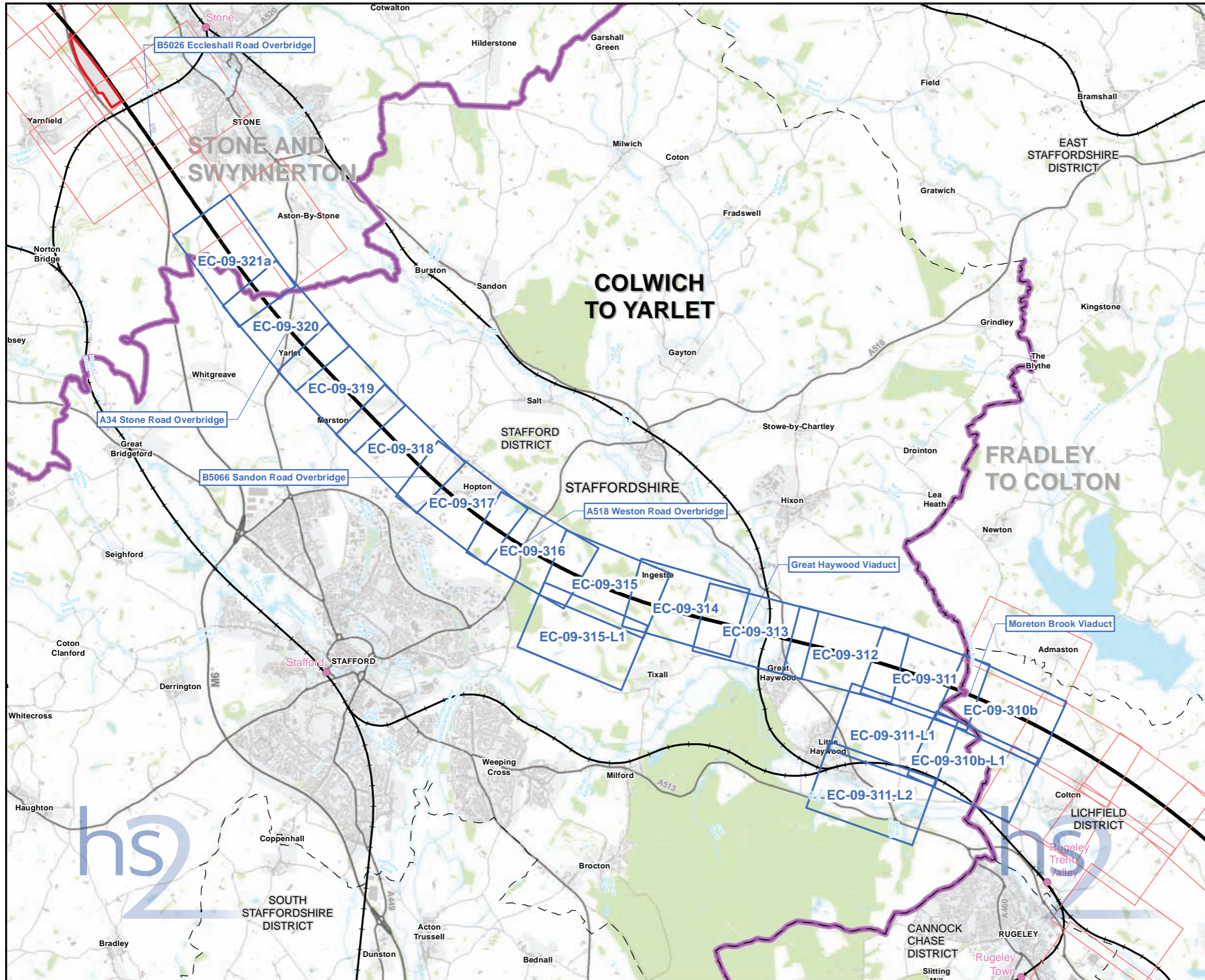
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-079510-P03 Date: 14/06/17

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Map Series Information:

This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Main Map Legend

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

Map Number: EC-09-INDEX-CA2

Map Name: Index Map of:
Wintering and Passage Birds –
Protected and Notable Species

Community Area 2:
Colwich to Yarlet

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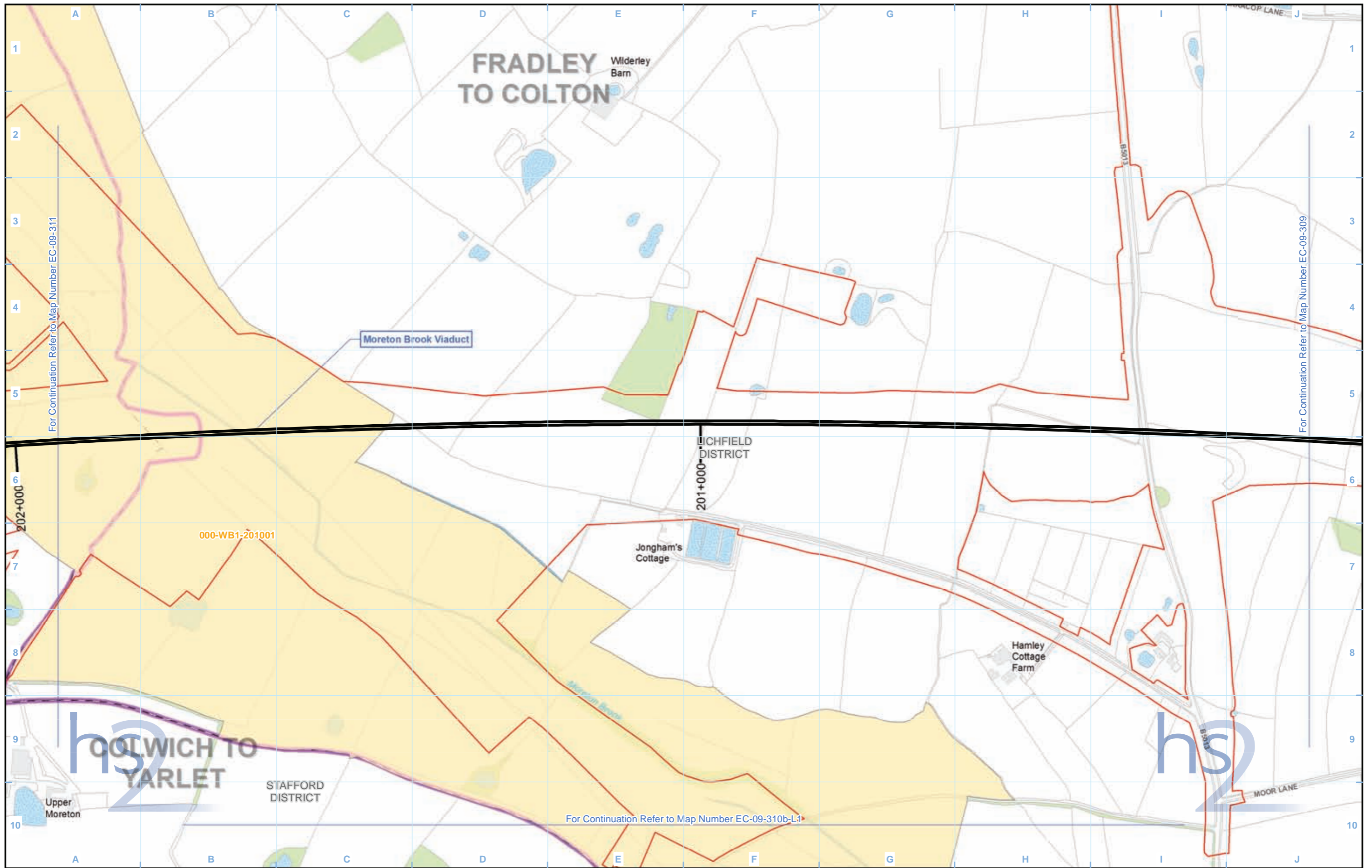
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Date: 14/06/17

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



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices
- Wintering and passage birds - survey extent

Map Number: EC-09-310b

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 2: Colwich to Yarlet

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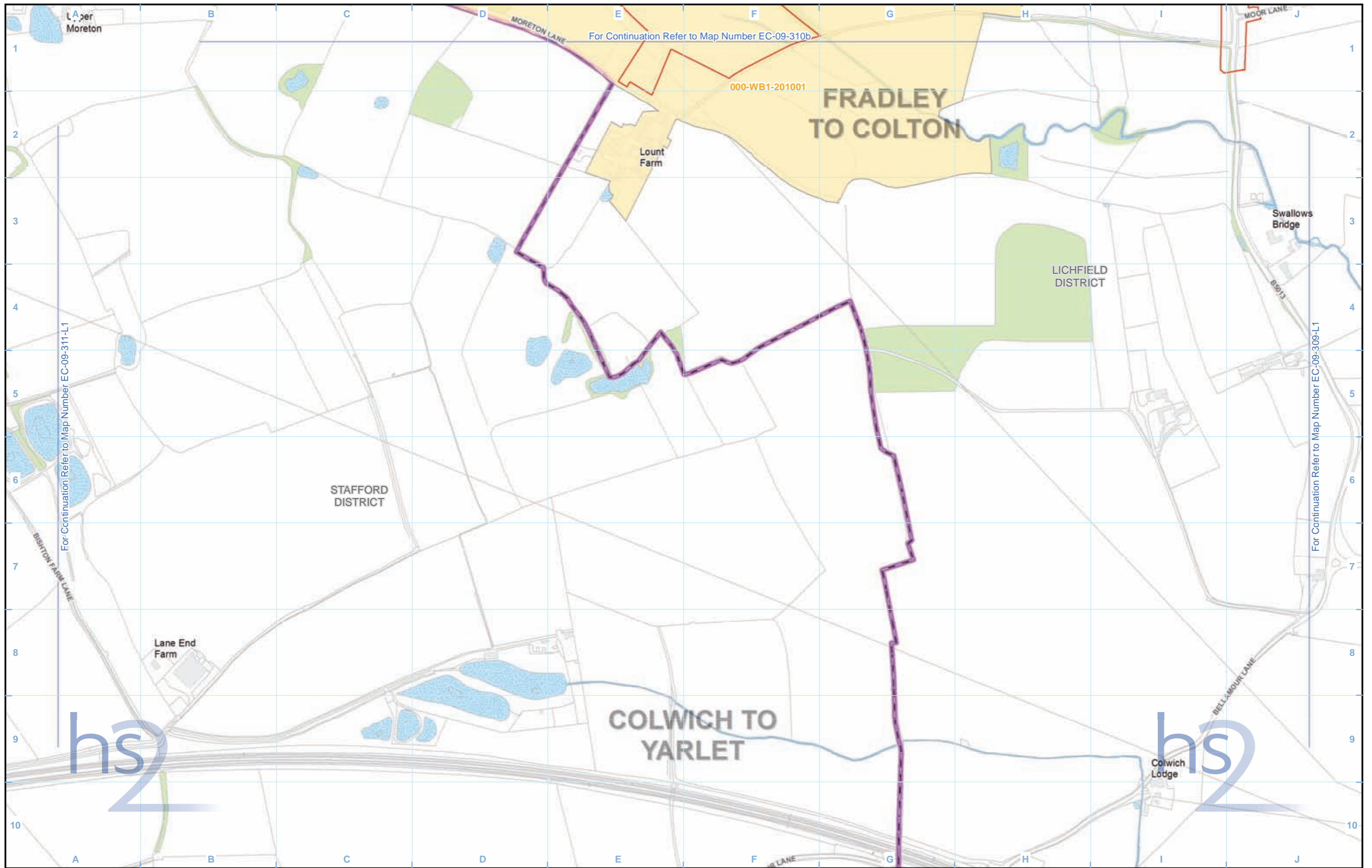
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number EC-09-310b-L1

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 2:
Colwich to Yarlet

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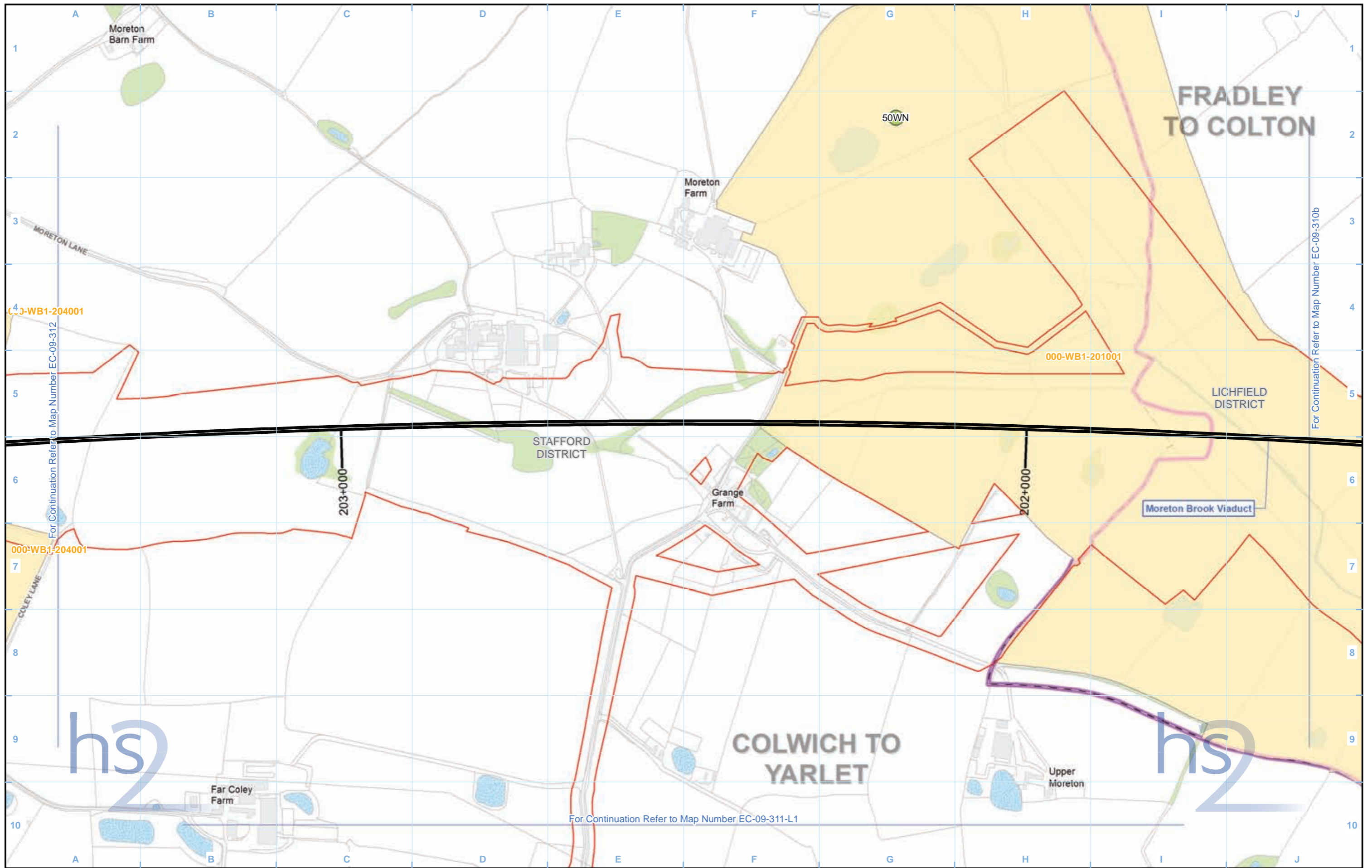
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Doc Number: C861-ARP-EV-MAP-000-079710-P03

Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-311

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 2: Colwich to Yarlet

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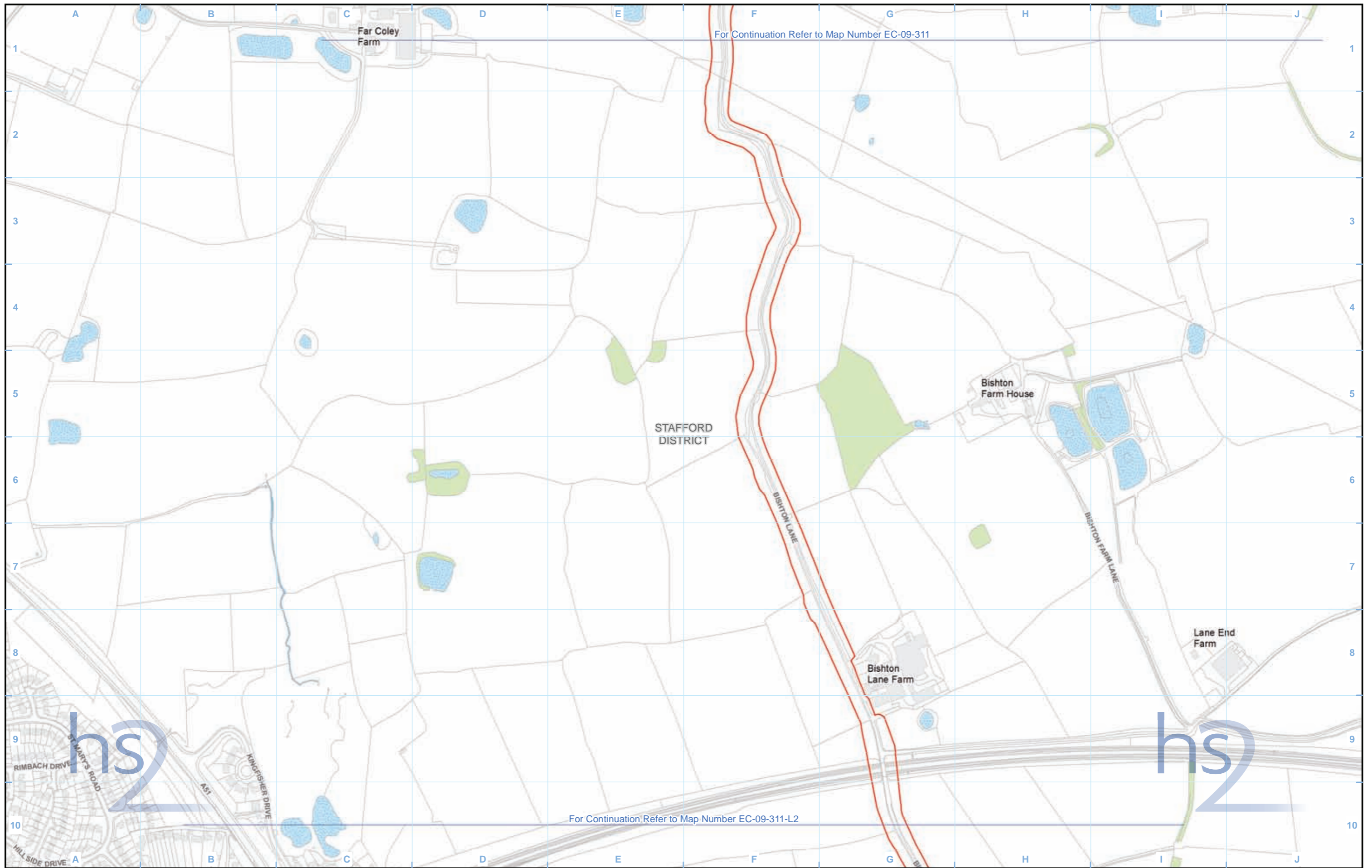
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Date: 14/06/17



For Continuation Refer to Map Number EC-09-311

For Continuation Refer to Map Number EC-09-311-L2

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-311-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 2:
Colwich to Yarlet

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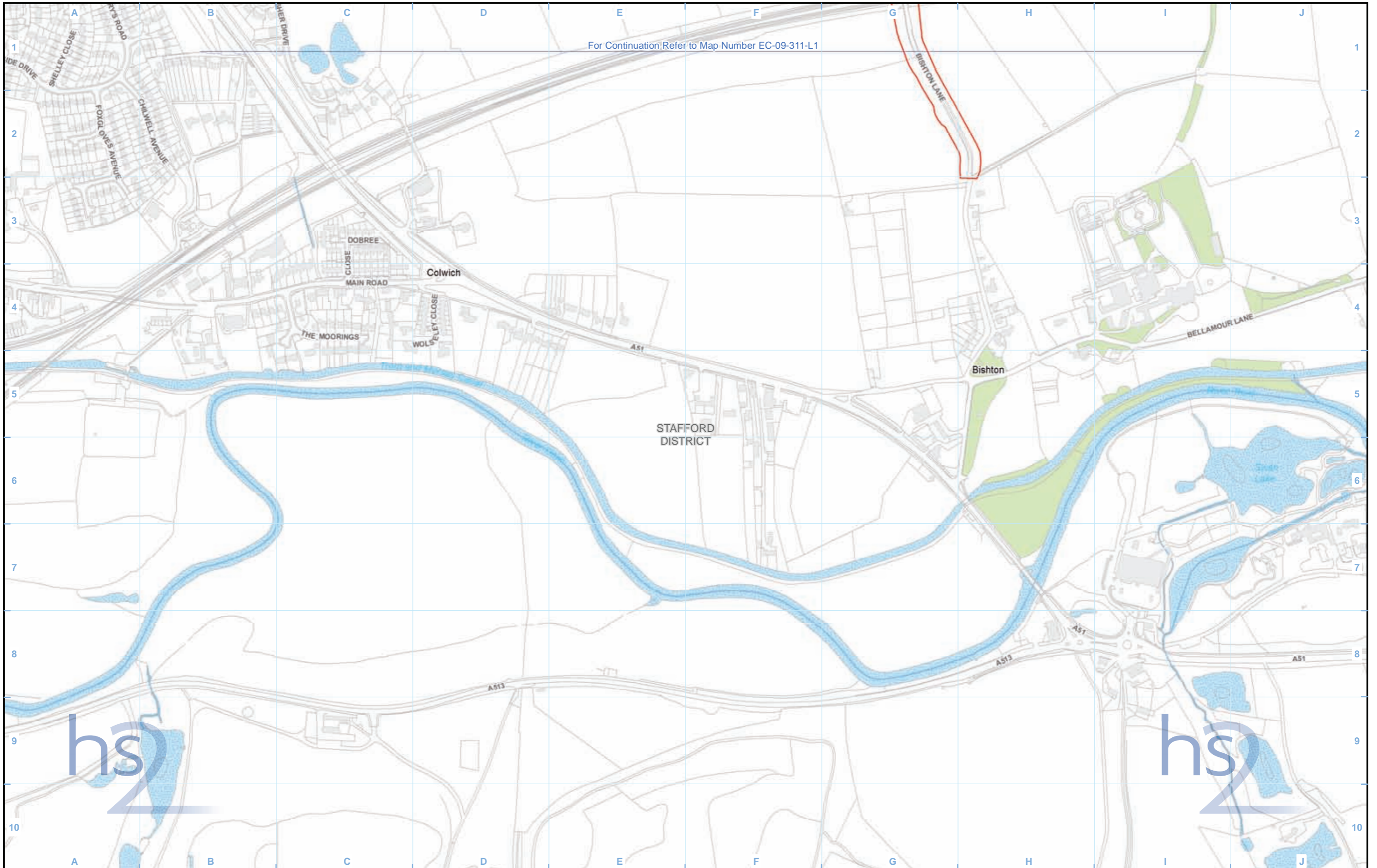
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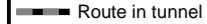
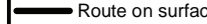
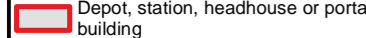
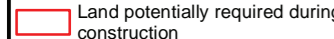


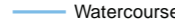

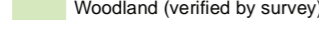





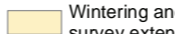
Doc Number: C861-ARP-EV-MAP-000-079411-P03

Date: 14/06/17

For Continuation Refer to Map Number EC-09-311-L1




Legend

-  Route in tunnel
-  Route on surface
-  Depot, station, headhouse or portal building
-  Land potentially required during construction
-  Community area boundary
-  District/Borough boundary
-  Watercourse
-  Water body
-  Woodland (verified by survey)
-  Species listed on Annex I of the Birds Directive
-  Species listed on Schedule 1 of the Wildlife and Countryside Act
-  Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
-  Species listed on Birds and Conservation Concern list relevant to assessment
-  Other notable species relevant to assessment - see Volume 5 Appendices
-  Wintering and passage birds - survey extent

Map Number **EC-09-311-L2**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 2:
Colwich to Yarlet




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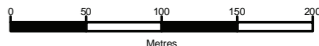
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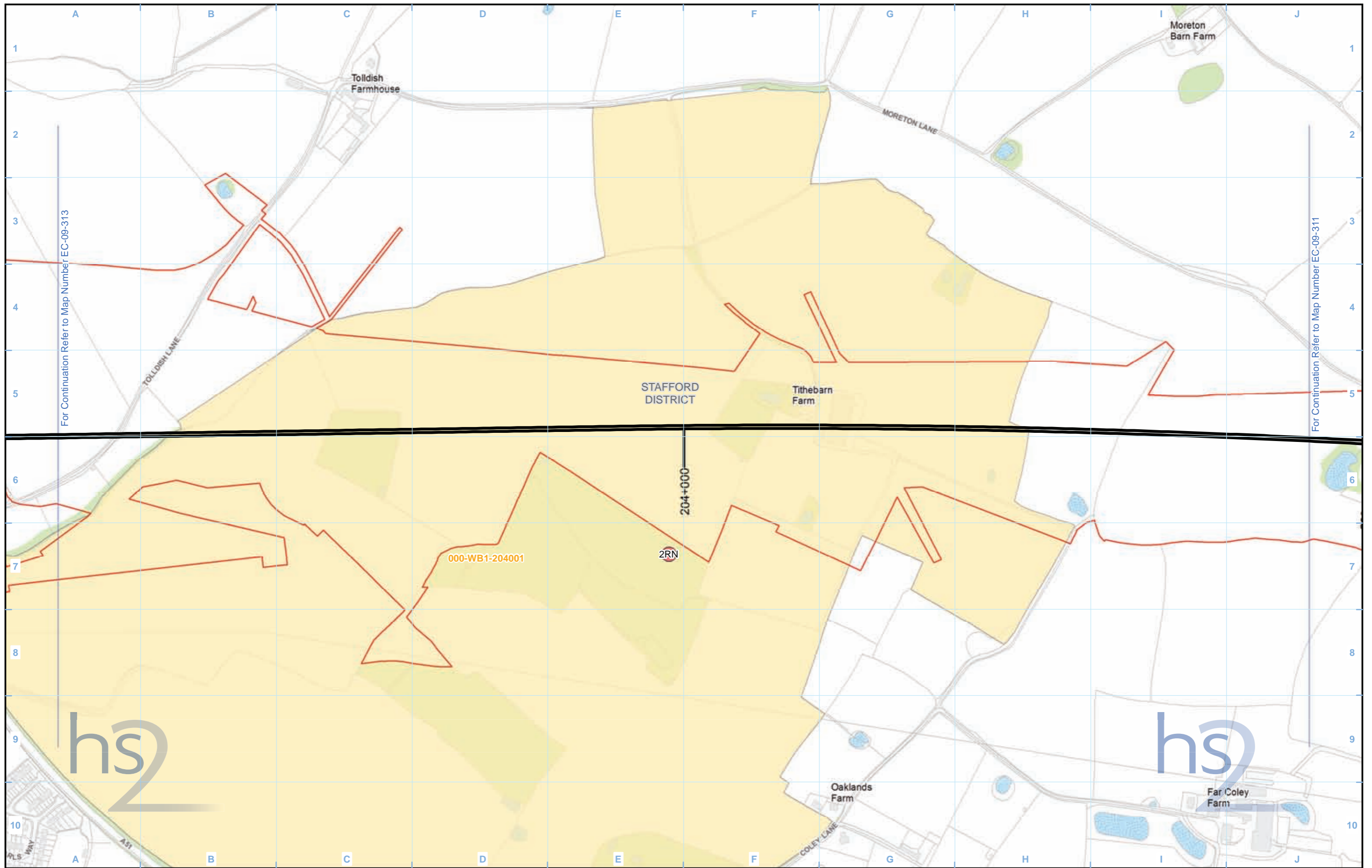
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Date: 16/06/17

Scale at A3: 1:5,000








Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Birds and Conservation Concern list relevant to assessment
	Other notable species relevant to assessment - see Volume 5 Appendices
	Wintering and passage birds - survey extent

Map Number	EC-09-312
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 2: Colwich to Yarlet	




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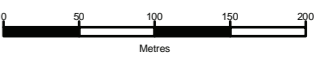
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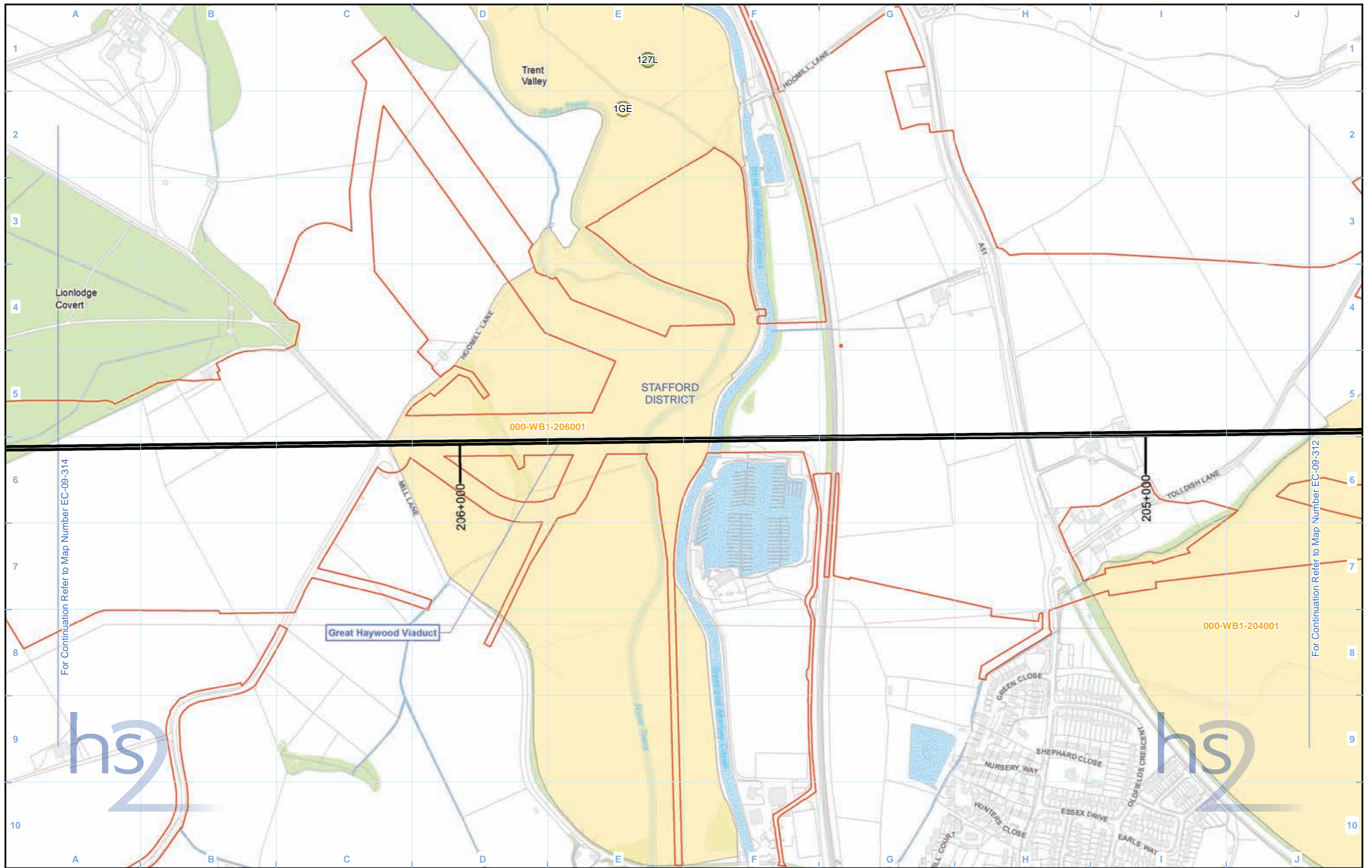


Scale at A3: 1:5,000



Metres

Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number
EC-09-313

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 2:
Colwich to Yarlet

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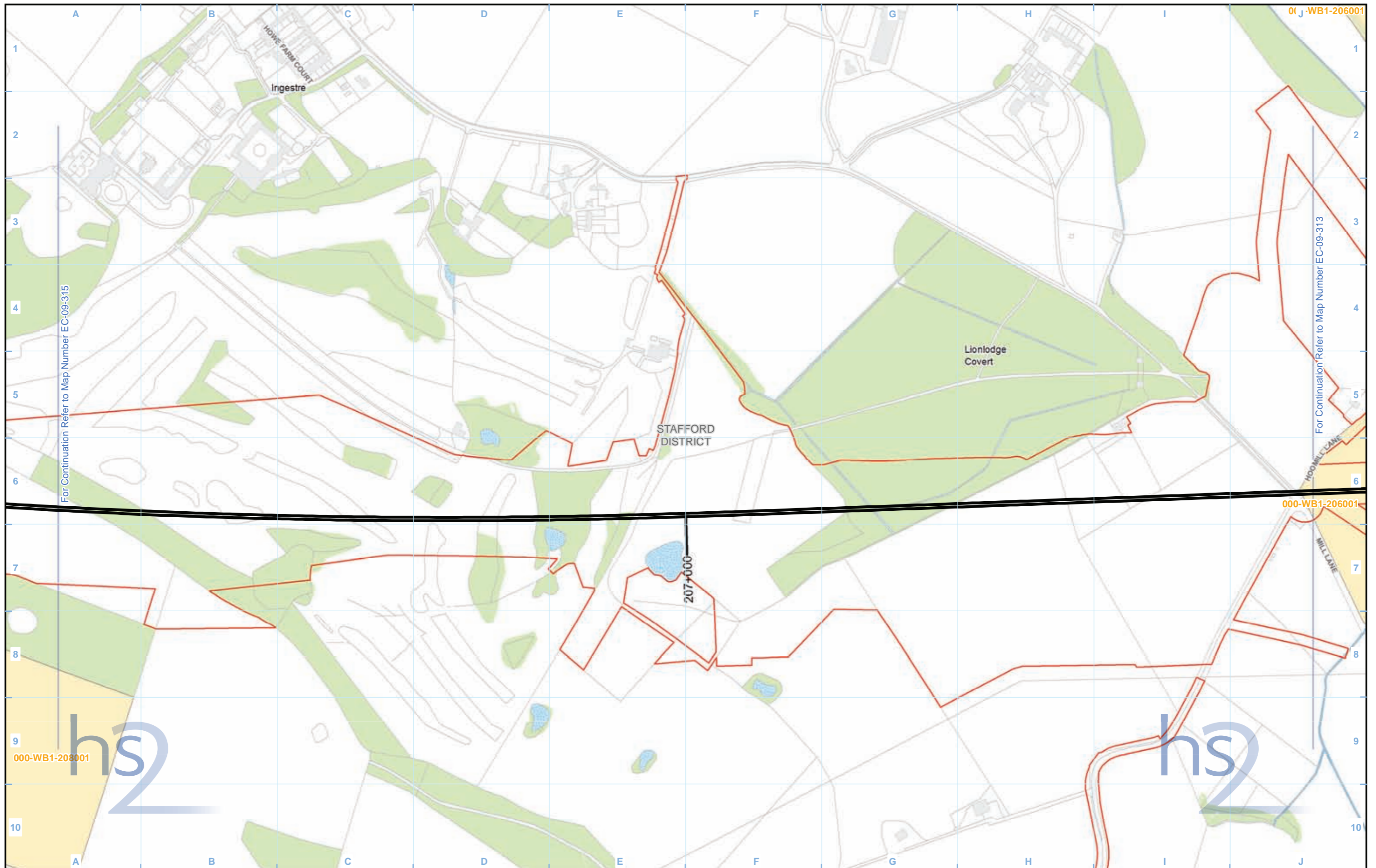
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Date: 14/06/17

Scale at A3: 1:5,000

For Continuation Refer to Map Number EC-09-314

For Continuation Refer to Map Number EC-09-312



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-314

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 2: Colwich to Yarlet

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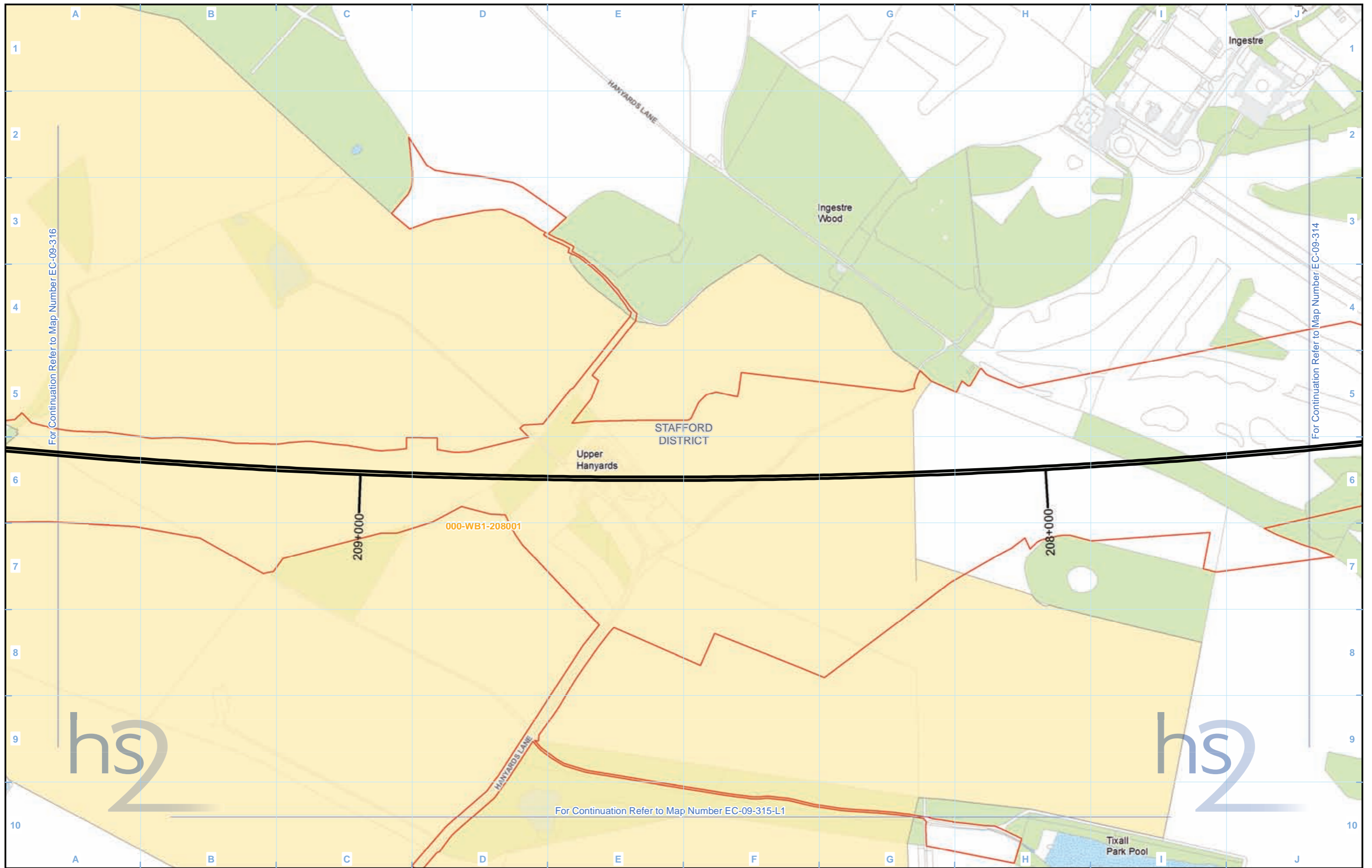
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Date: 14/06/17



For Continuation Refer to Map Number EC-09-316

For Continuation Refer to Map Number EC-09-314

For Continuation Refer to Map Number EC-09-315-L1

<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Wintering and passage birds - survey extent
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Map Number	EC-09-315
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 2: Colwich to Yarlet	

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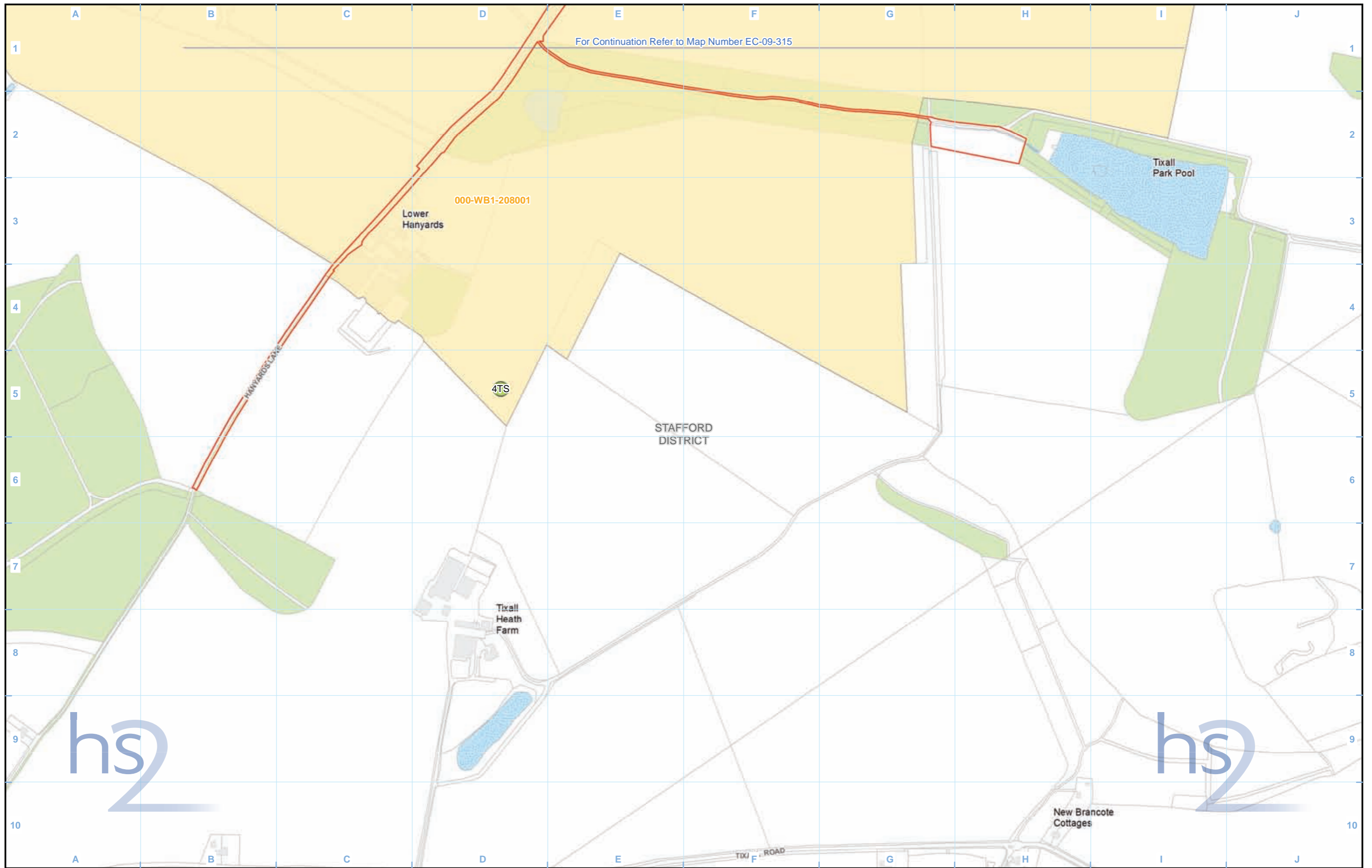
Doc Number: C861-ARP-EV-MAP-000-079315-P03

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Metres

Date: 14/06/17

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For Continuation Refer to Map Number EC-09-315

000-WB1-208001

Lower Hanyards

Tixall Park Pool

STAFFORD DISTRICT

4TS

Tixall Heath Farm

New Brancote Cottages

TIX F ROAD

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices
- Wintering and passage birds - survey extent

Map Number **EC-09-315-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 2:
Colwich to Yarlet

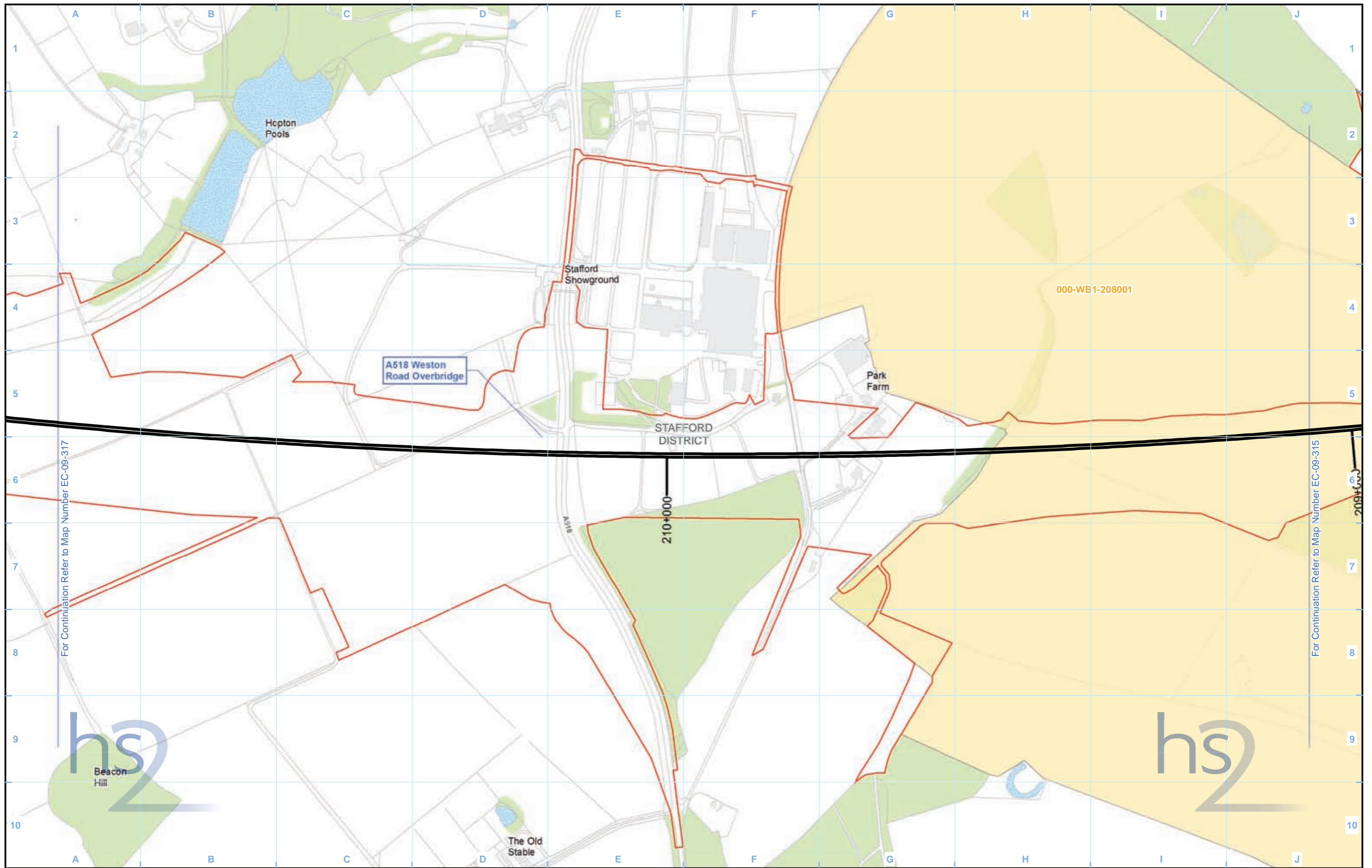
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number
EC-09-316

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 2:
Colwich to Yarlet

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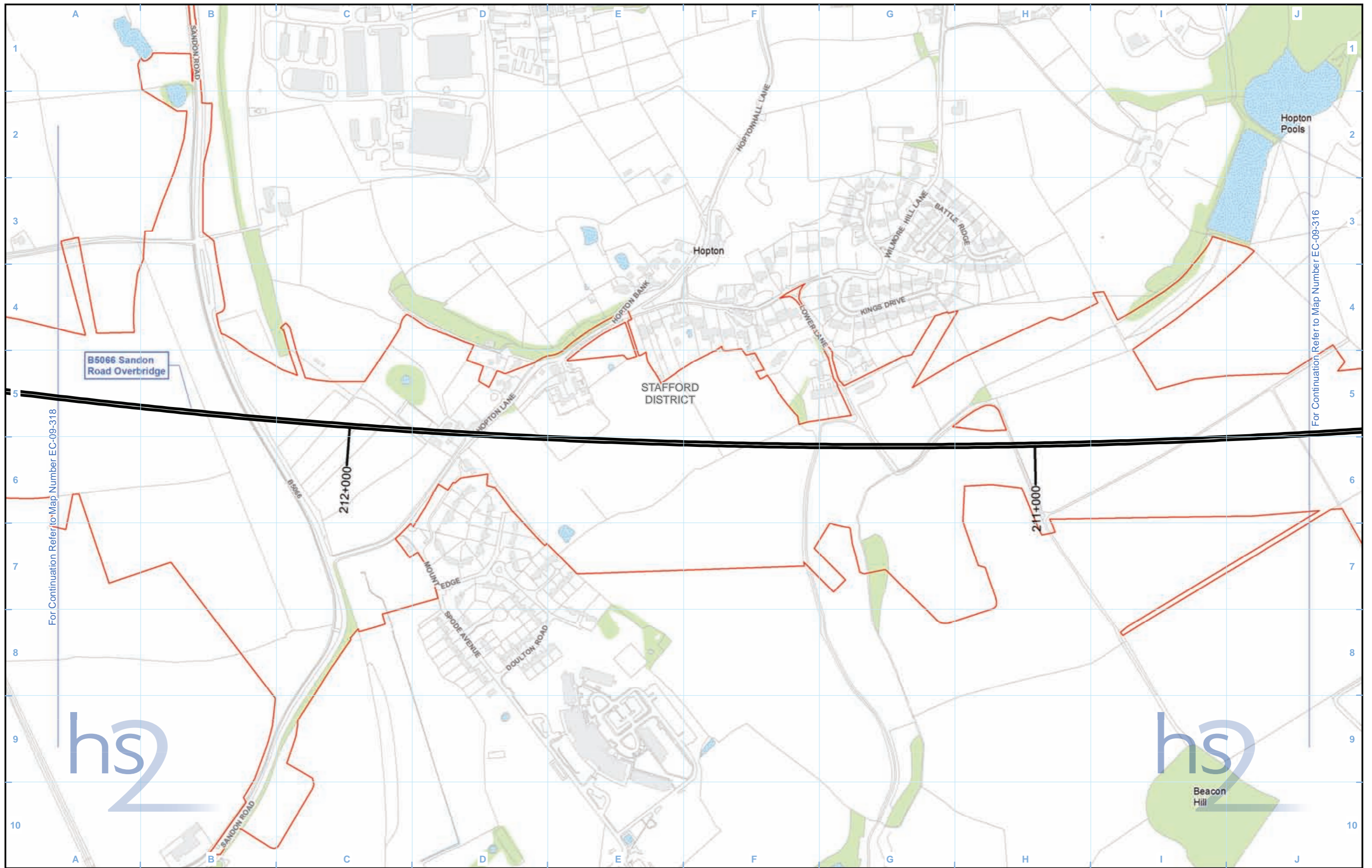
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Date: 14/06/17



For Continuation Refer to Map Number EC-09-318

For Continuation Refer to Map Number EC-09-316

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number EC-09-317

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 2:
Colwich to Yarlet

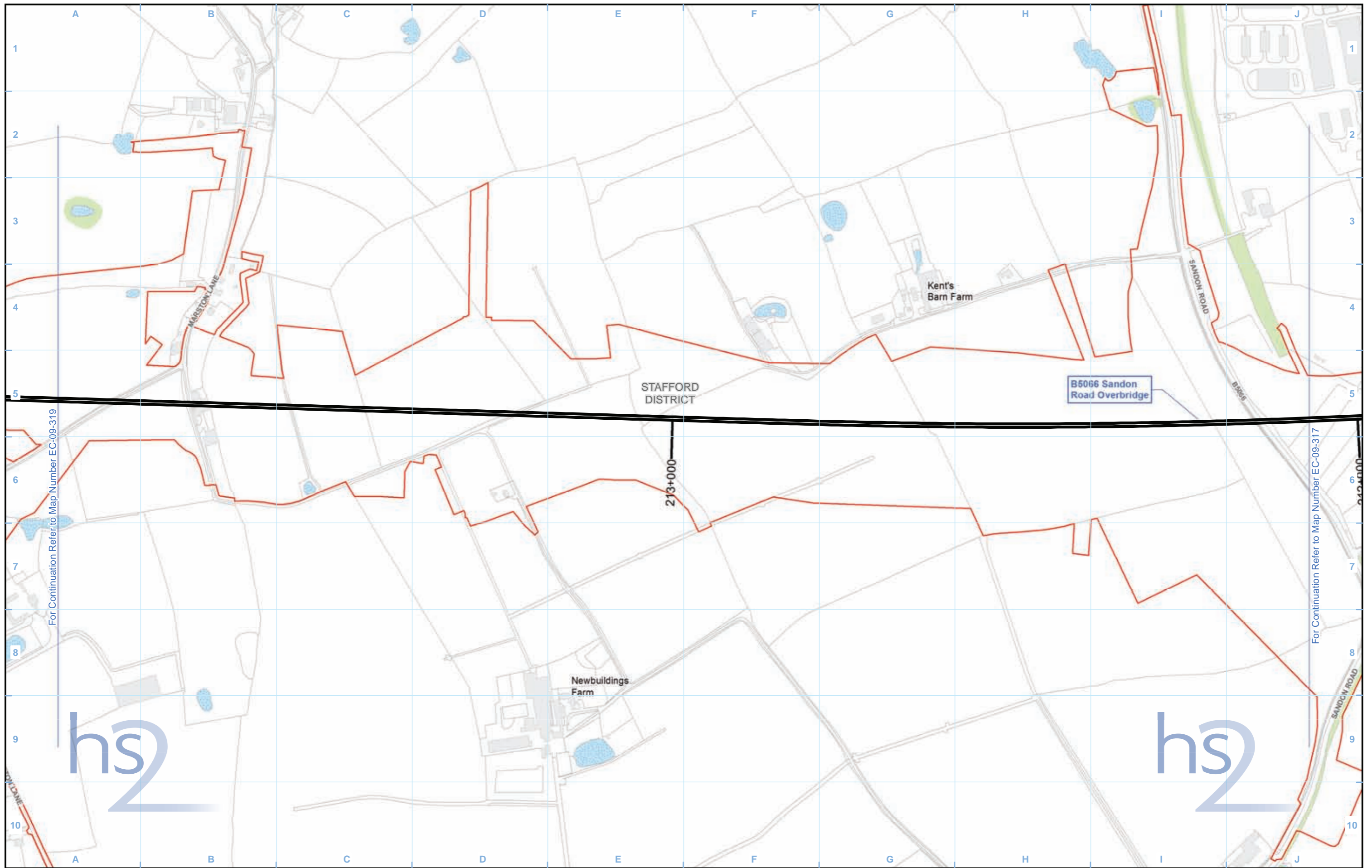
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-318

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 2: Colwich to Yarlet

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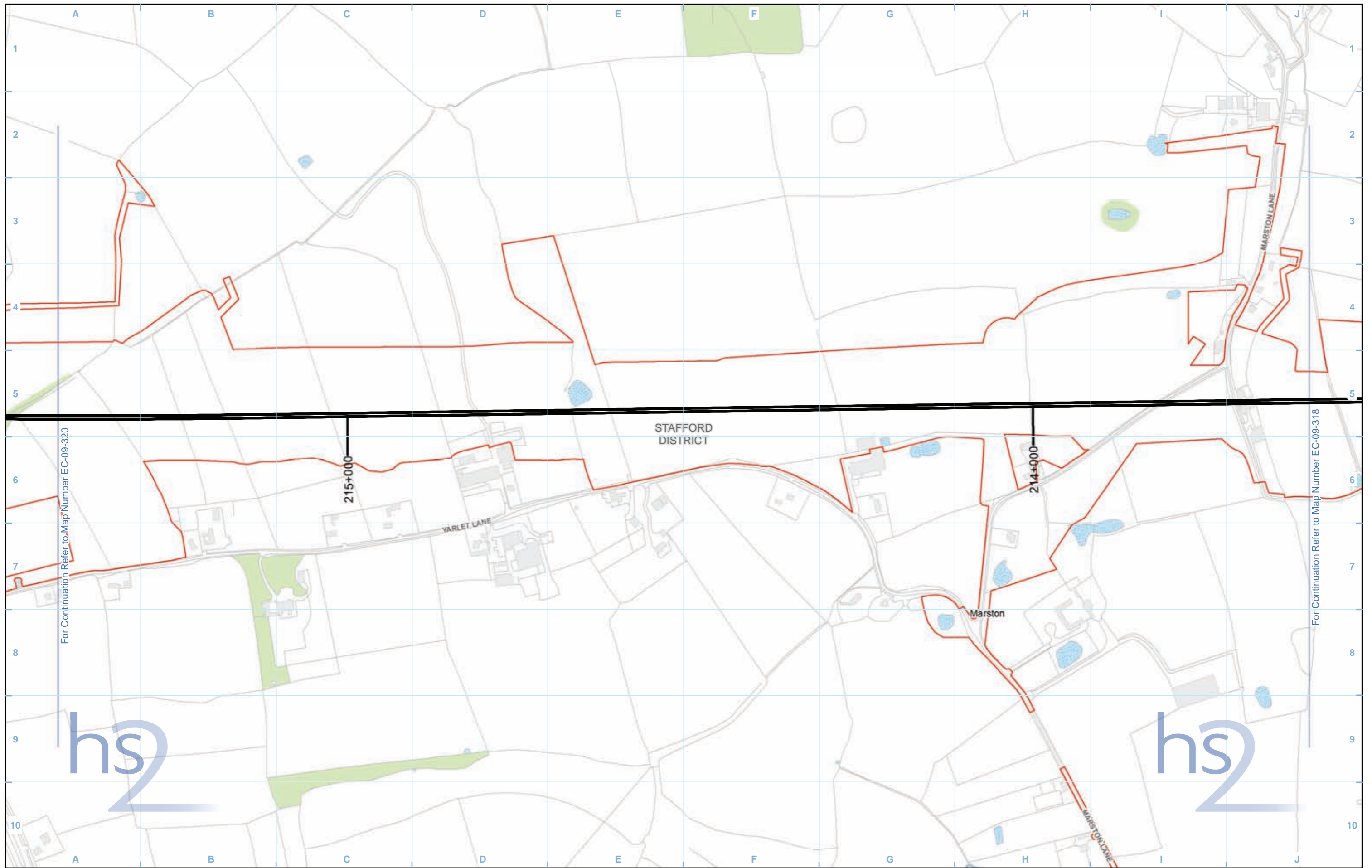
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number EC-09-319

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 2:
Colwich to Yarlet

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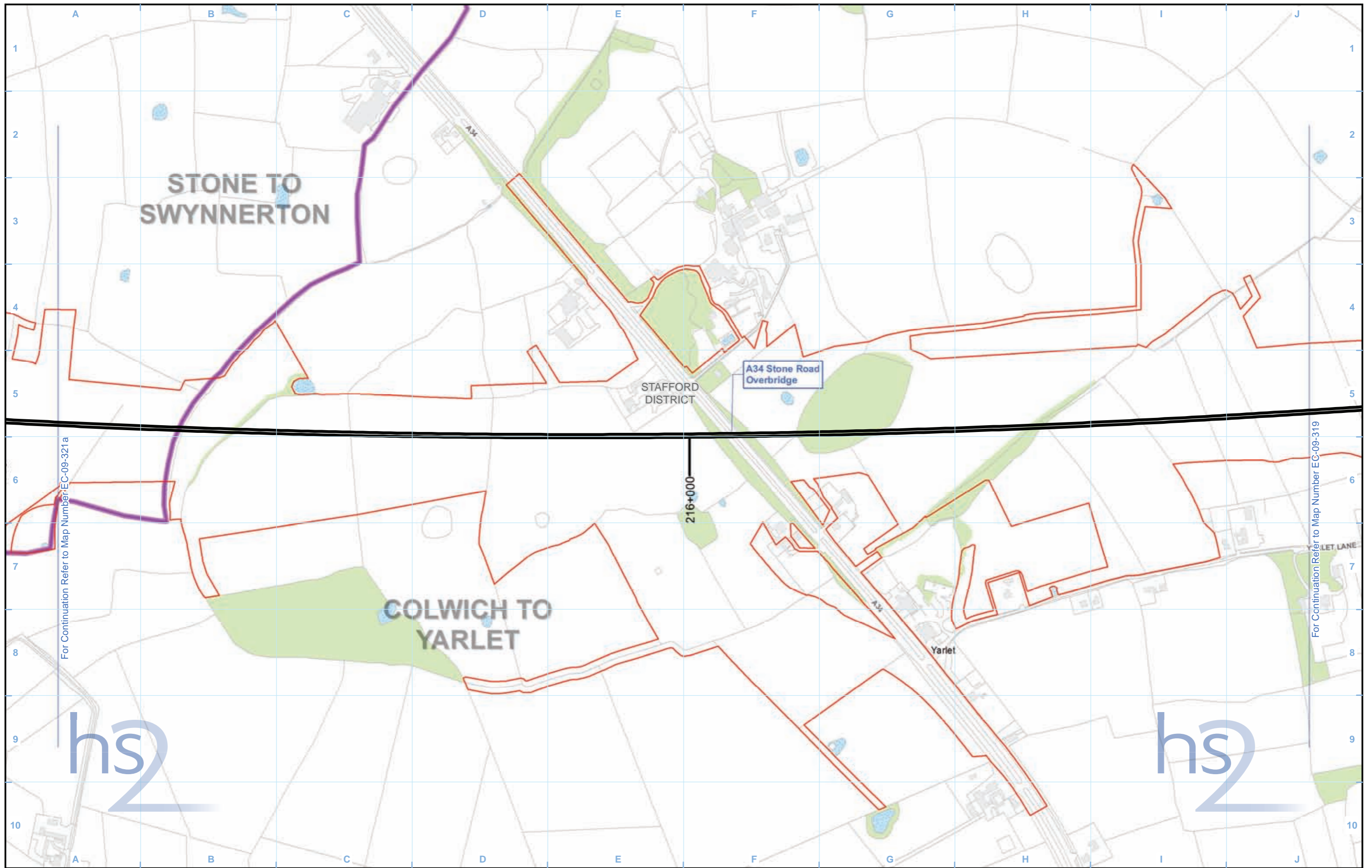
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For Continuation Refer to Map Number EC-09-321a

For Continuation Refer to Map Number EC-09-319

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Birds and Conservation Concern list relevant to assessment
	Other notable species relevant to assessment - see Volume 5 Appendices
	Wintering and passage birds - survey extent

Map Number	EC-09-320
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 2: Colwich to Yarlet	

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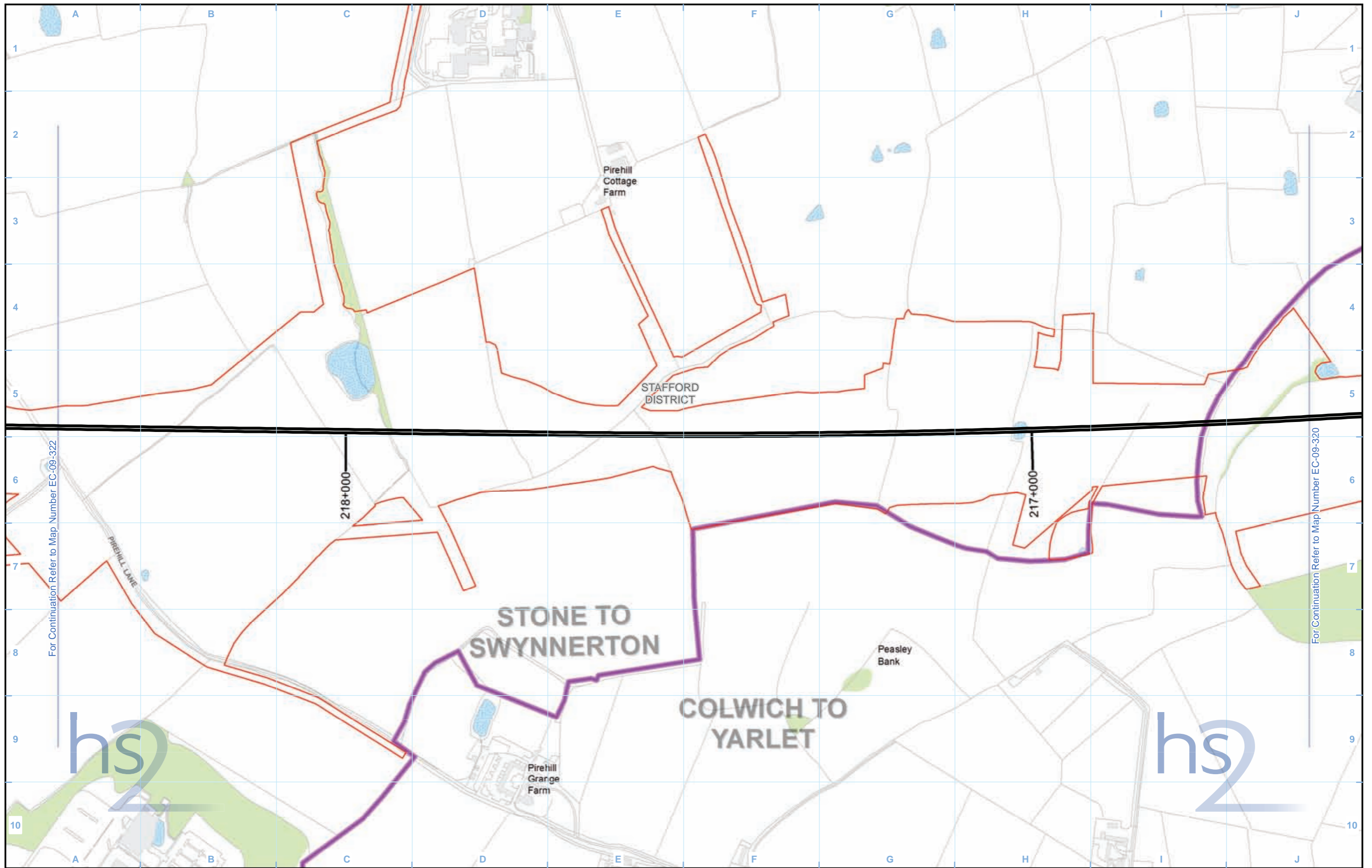
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Date: 14/06/17

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number EC-09-321a

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 2:
Colwich to Yarlet

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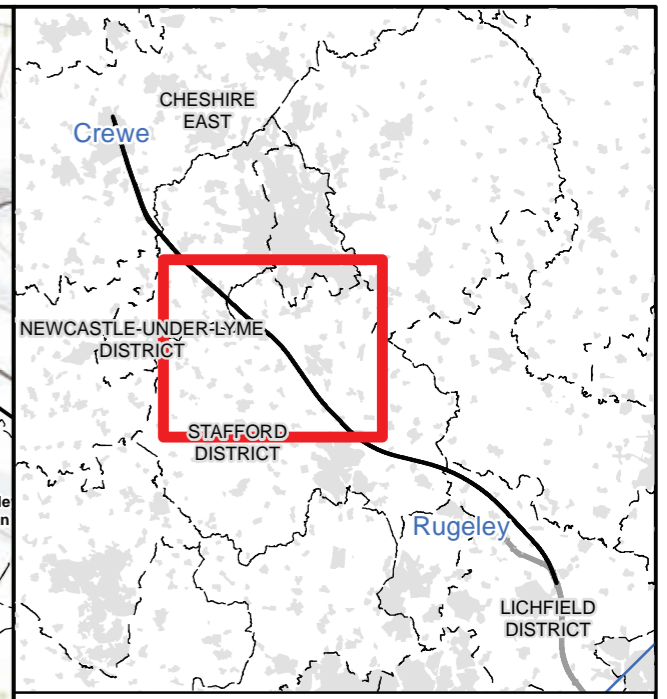
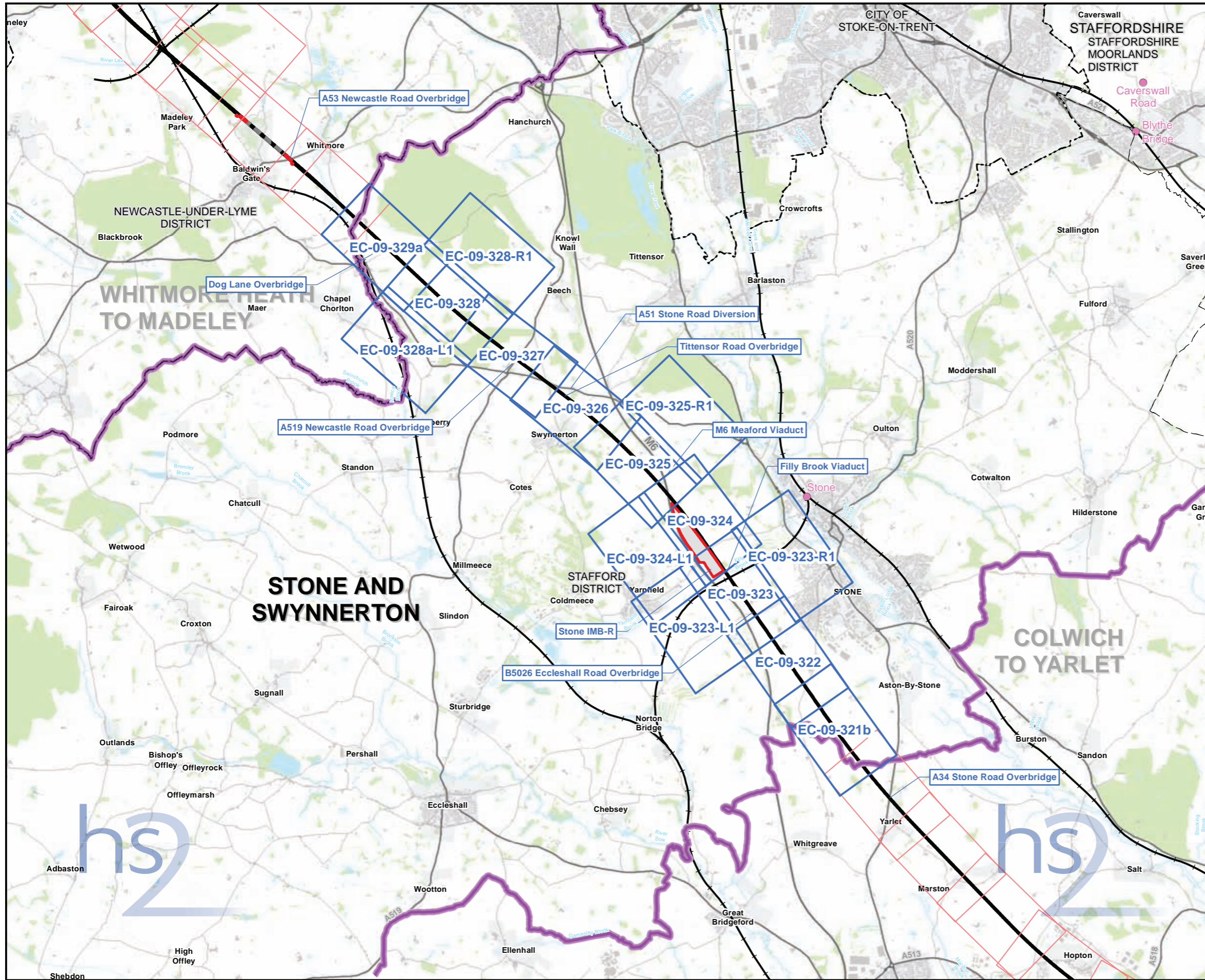
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Map Series Information:

This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Main Map Legend

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

Map Number: EC-09-INDEX-CA3

Map Name: Index Map of:
Wintering and Passage Birds –
Protected and Notable Species

Community Area 3:
Stone and Swynnerton

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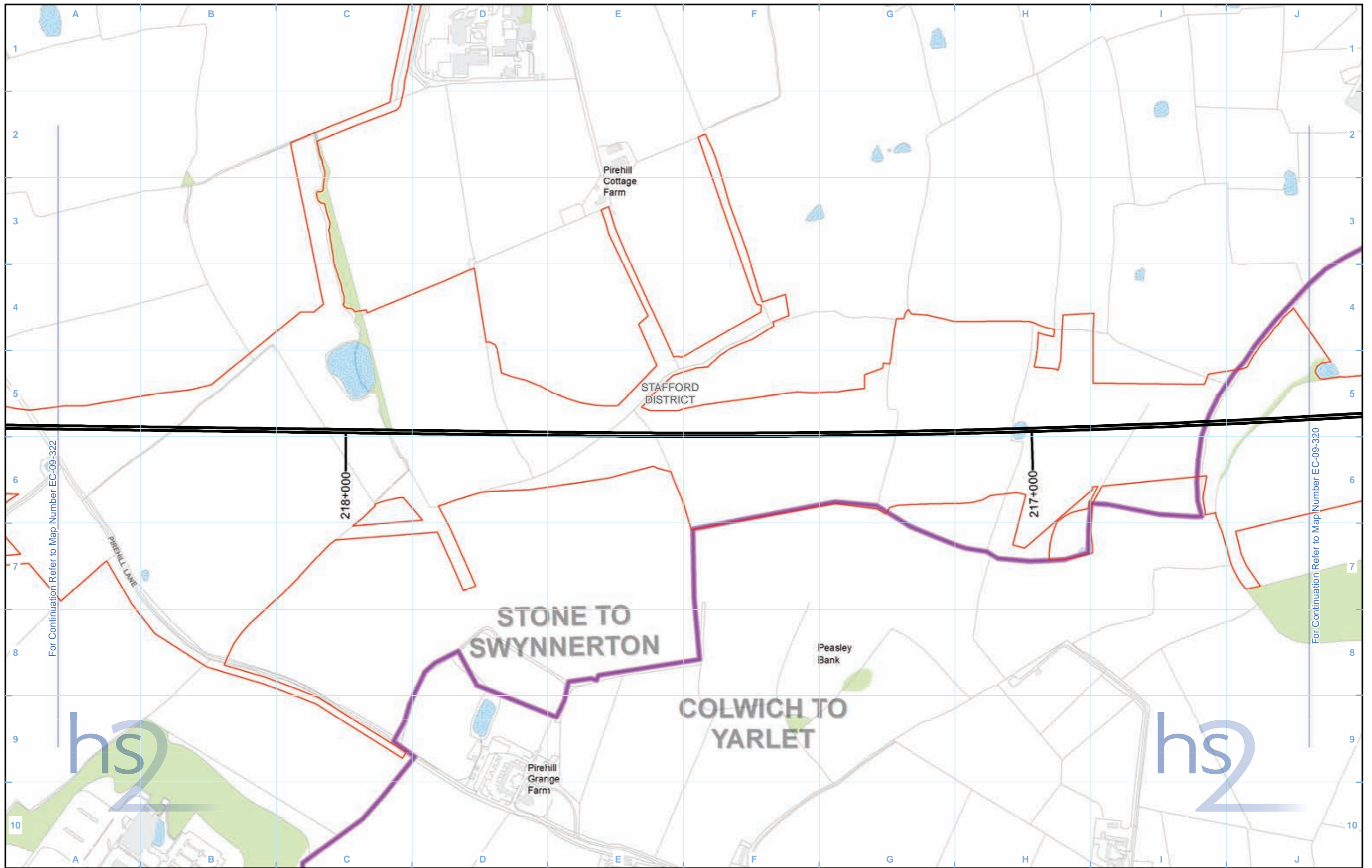
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-321b

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 3: Stone and Swynnerton

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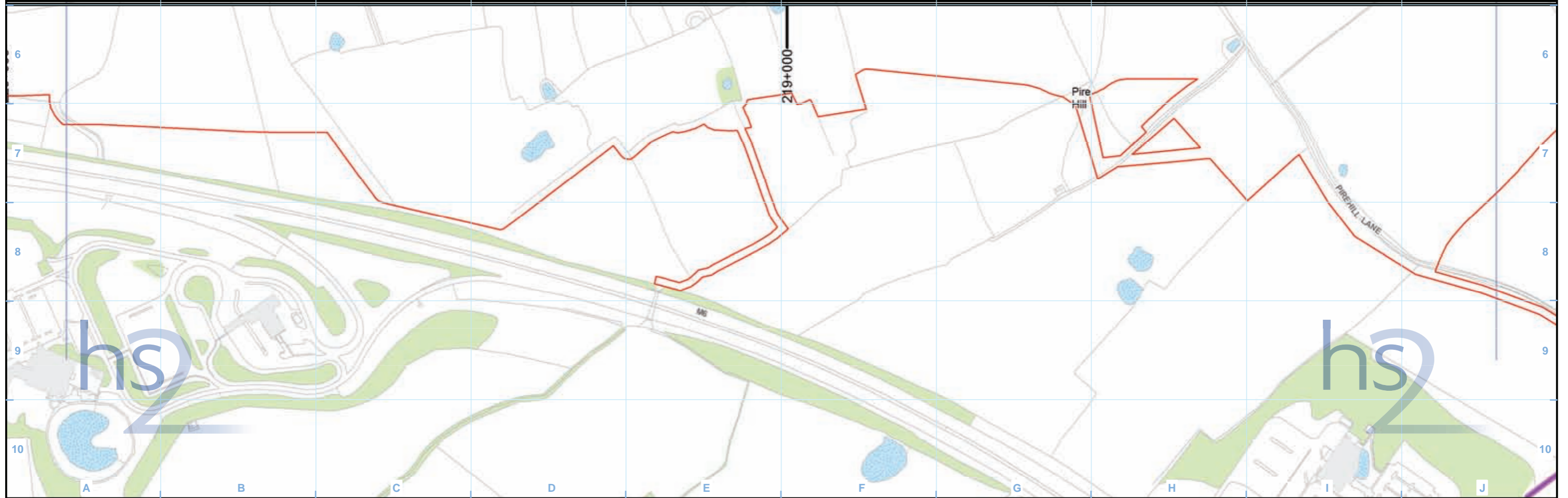
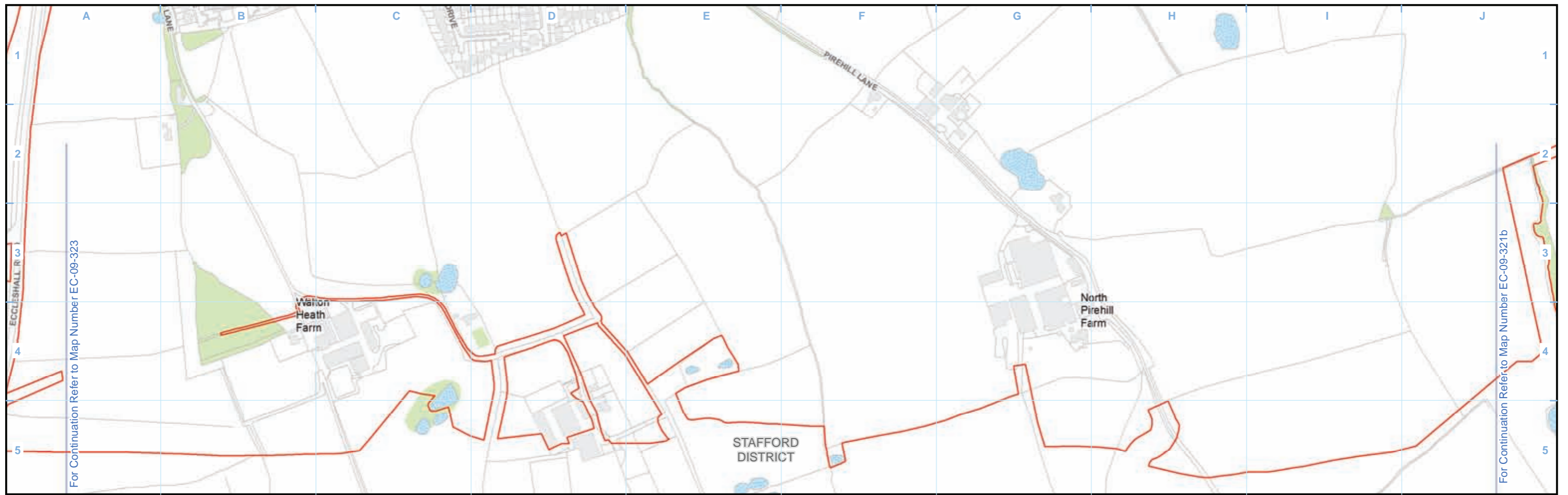
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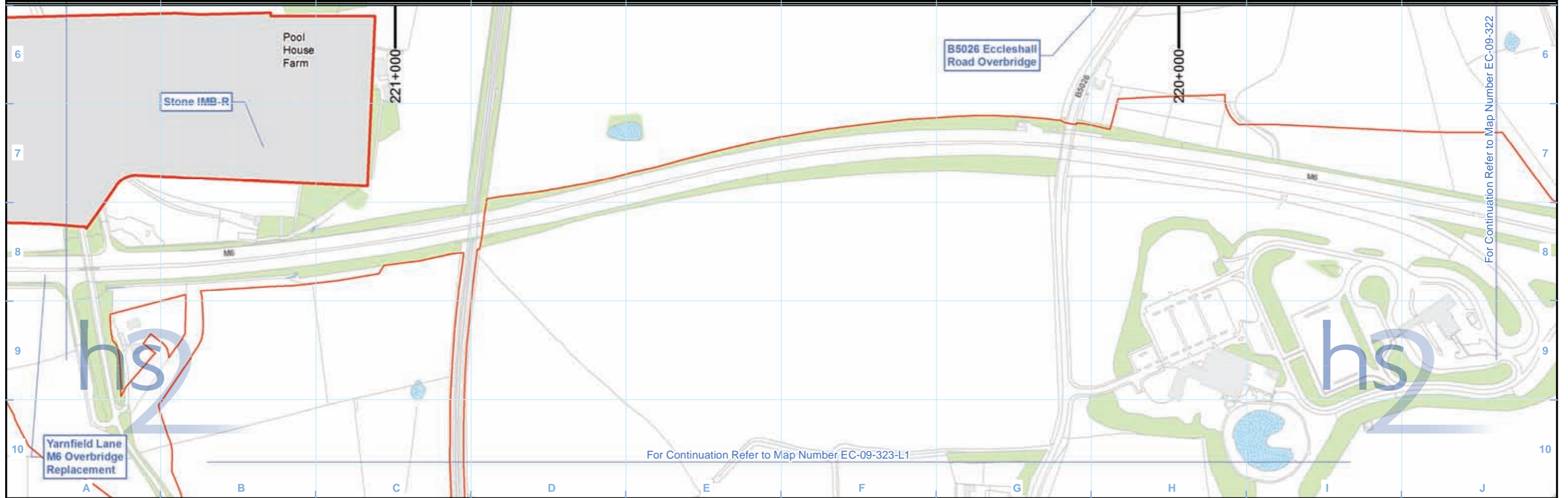
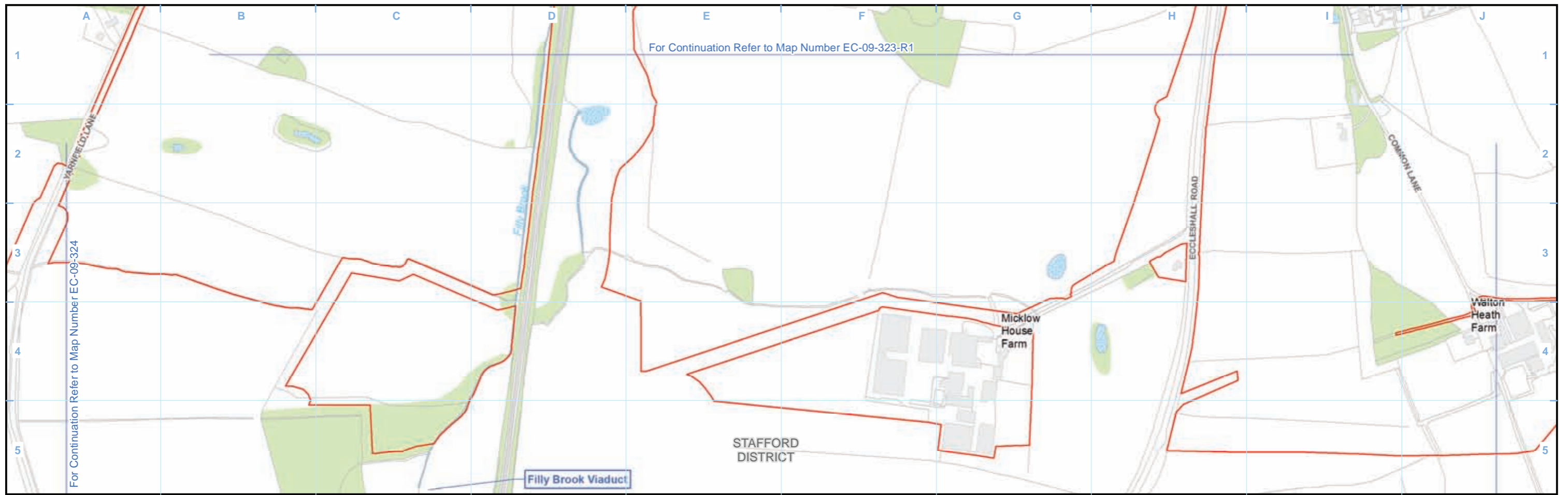
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Doc Number: C861-ARP-EV-MAP-000-079421-P03

Date: 14/06/17



Legend <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary Watercourse Water body Woodland (verified by survey) Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices Wintering and passage birds - survey extent 		Map Number EC-09-322	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190. Doc Number: C861-ARP-EV-MAP-000-079322-P03
Map Name Wintering and Passage Birds – Protected and Notable Species		Scale at A3: 1:5,000 Date: 14/06/17	
Community Area 3: Stone and Swynnerton			



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-323

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 3: Stone and Swynnerton

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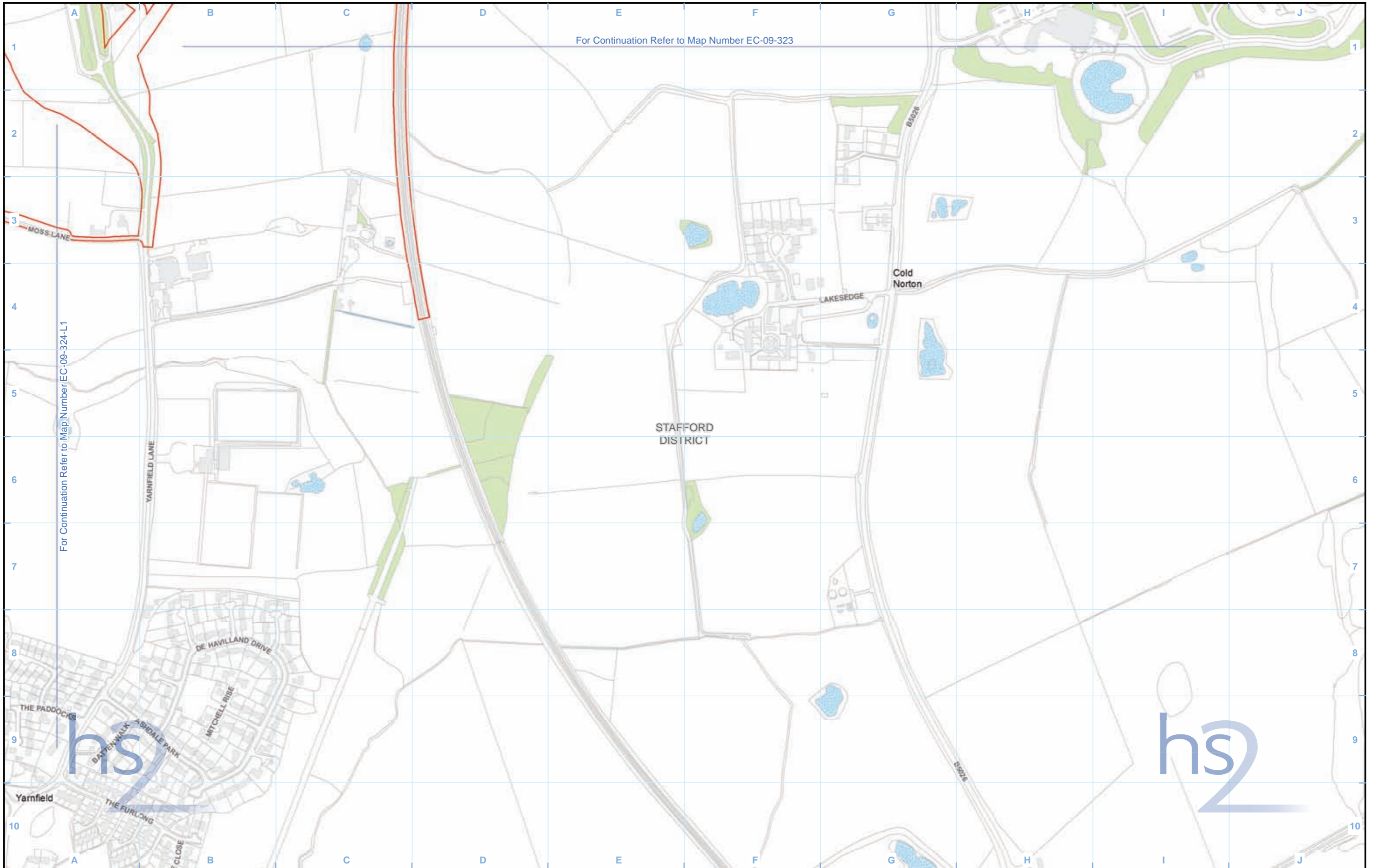
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Doc Number: C861-ARP-EV-MAP-000-079323-P03

Date: 14/06/17

For Continuation Refer to Map Number EC-09-323



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices
- Wintering and passage birds - survey extent

Map Number **EC-09-323-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

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For Continuation Refer to Map Number EC-09-323

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

- Watercourse
- Water body
- Woodland (verified by survey)

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices

- Wintering and passage birds - survey extent

Map Number **EC-09-323-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

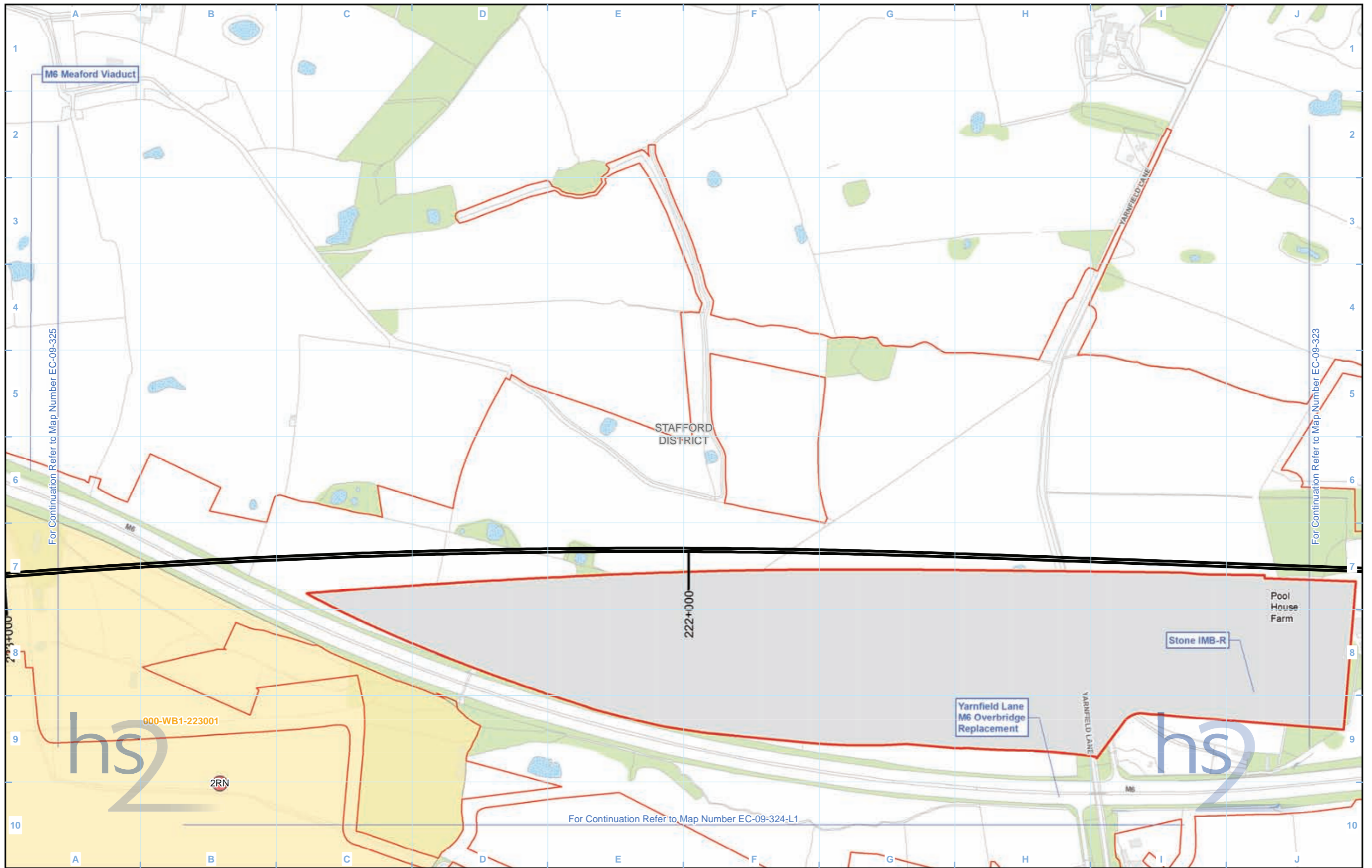
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices
- Wintering and passage birds - survey extent

Map Number: EC-09-324

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 3: Stone and Swynnerton

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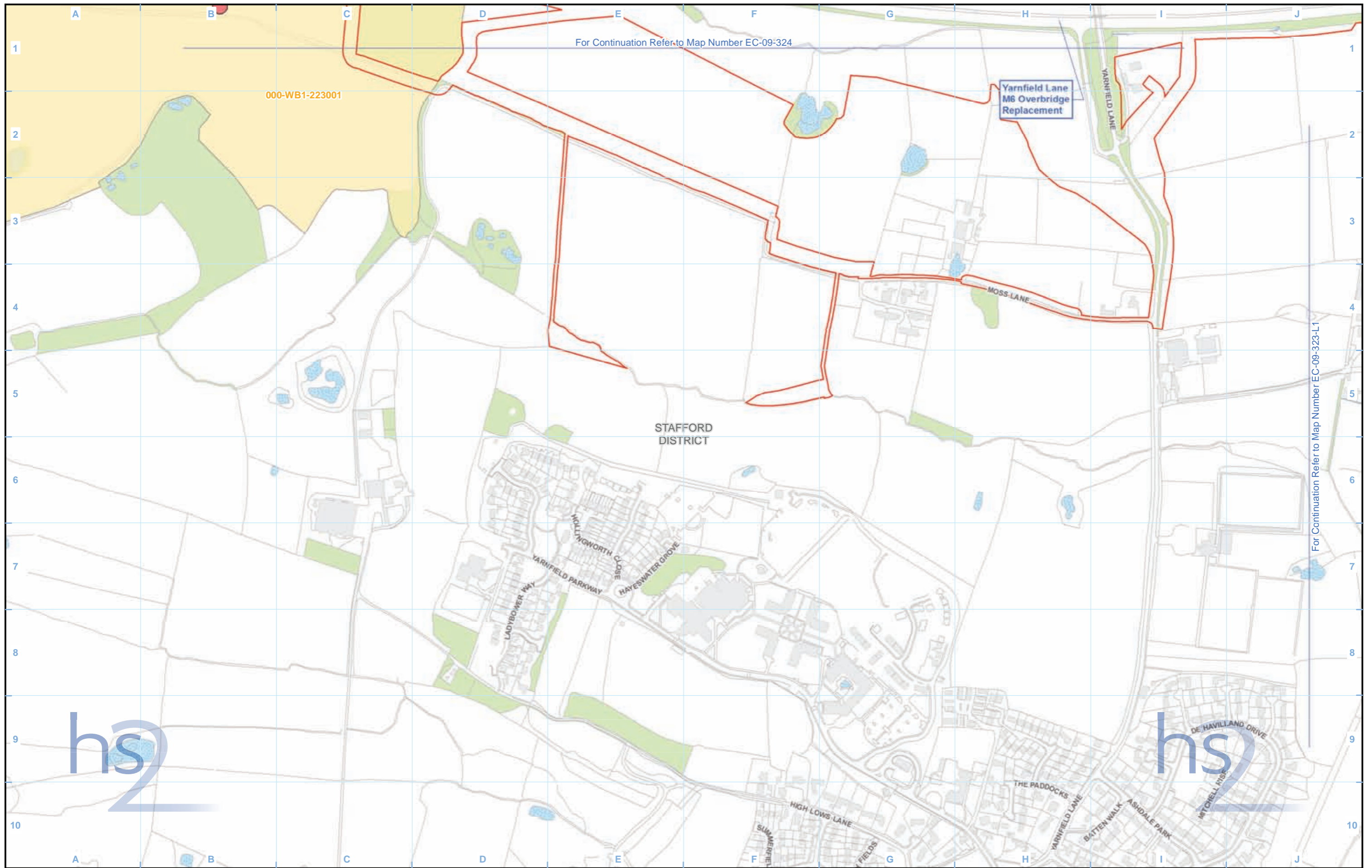
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Doc Number: C861-ARP-EV-MAP-000-079324-P03

Date: 14/06/17

Scale at A3: 1:5,000

0 50 100 150 200 Metres



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-324-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

hs2

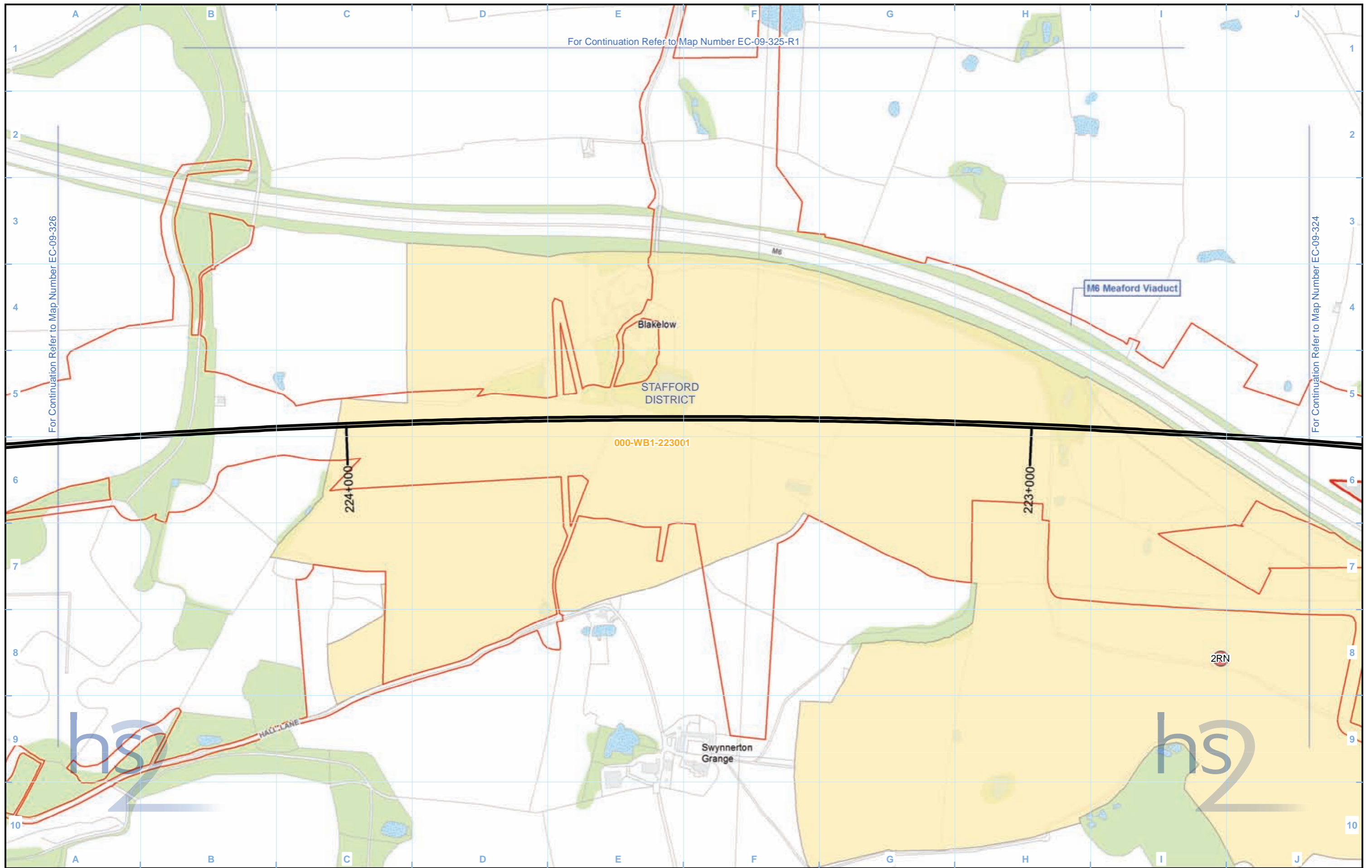
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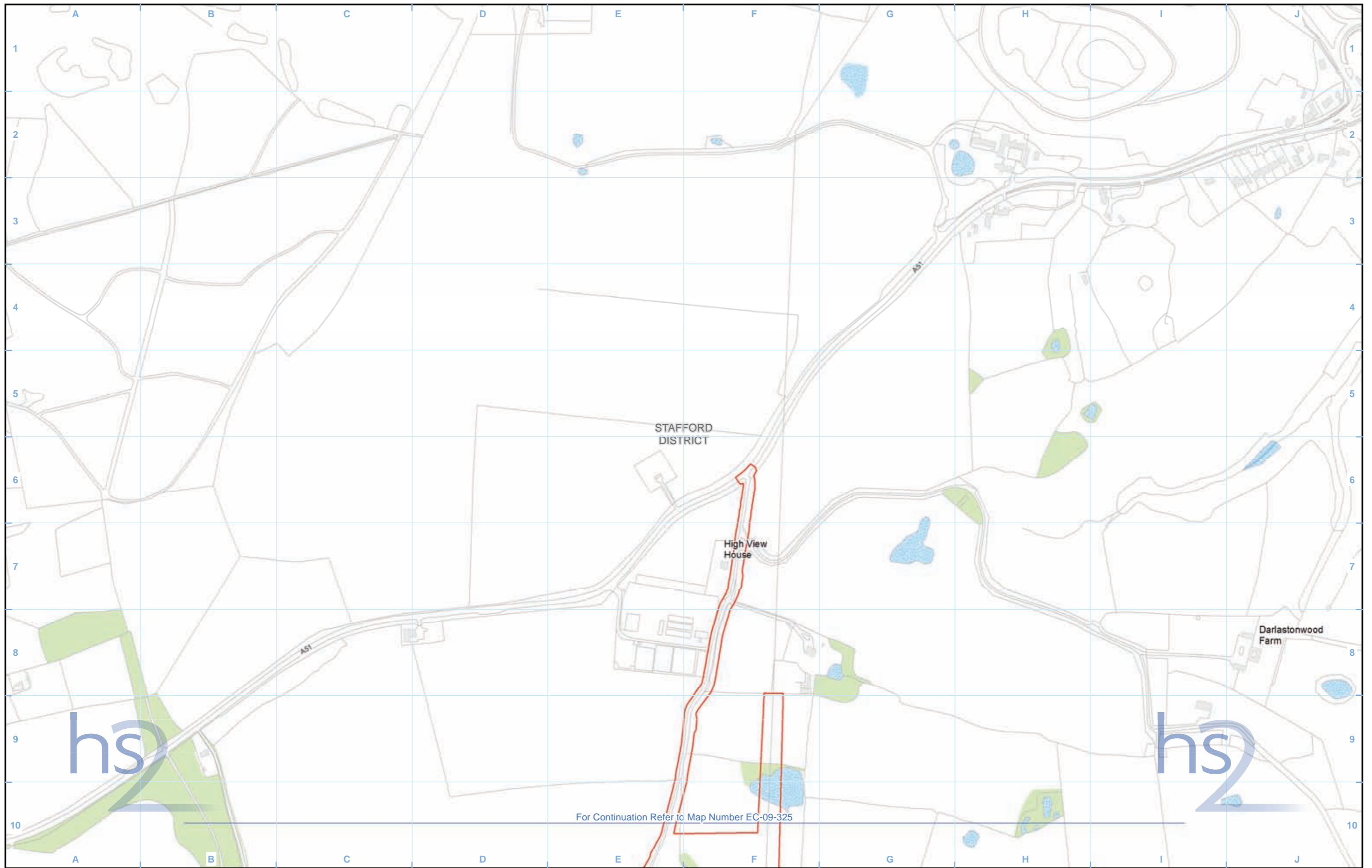


For Continuation Refer to Map Number EC-09-325-R1

For Continuation Refer to Map Number EC-09-326

For Continuation Refer to Map Number EC-09-324

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices		Wintering and passage birds - survey extent	
Map Number EC-09-325				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.				Scale at A3: 1:5,000 	
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Community Area 3: Stone and Swynnerton									



For Continuation Refer to Map Number EC-09-325

Legend				
Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number	EC-09-325-R1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 3: Stone and Swynnerton	

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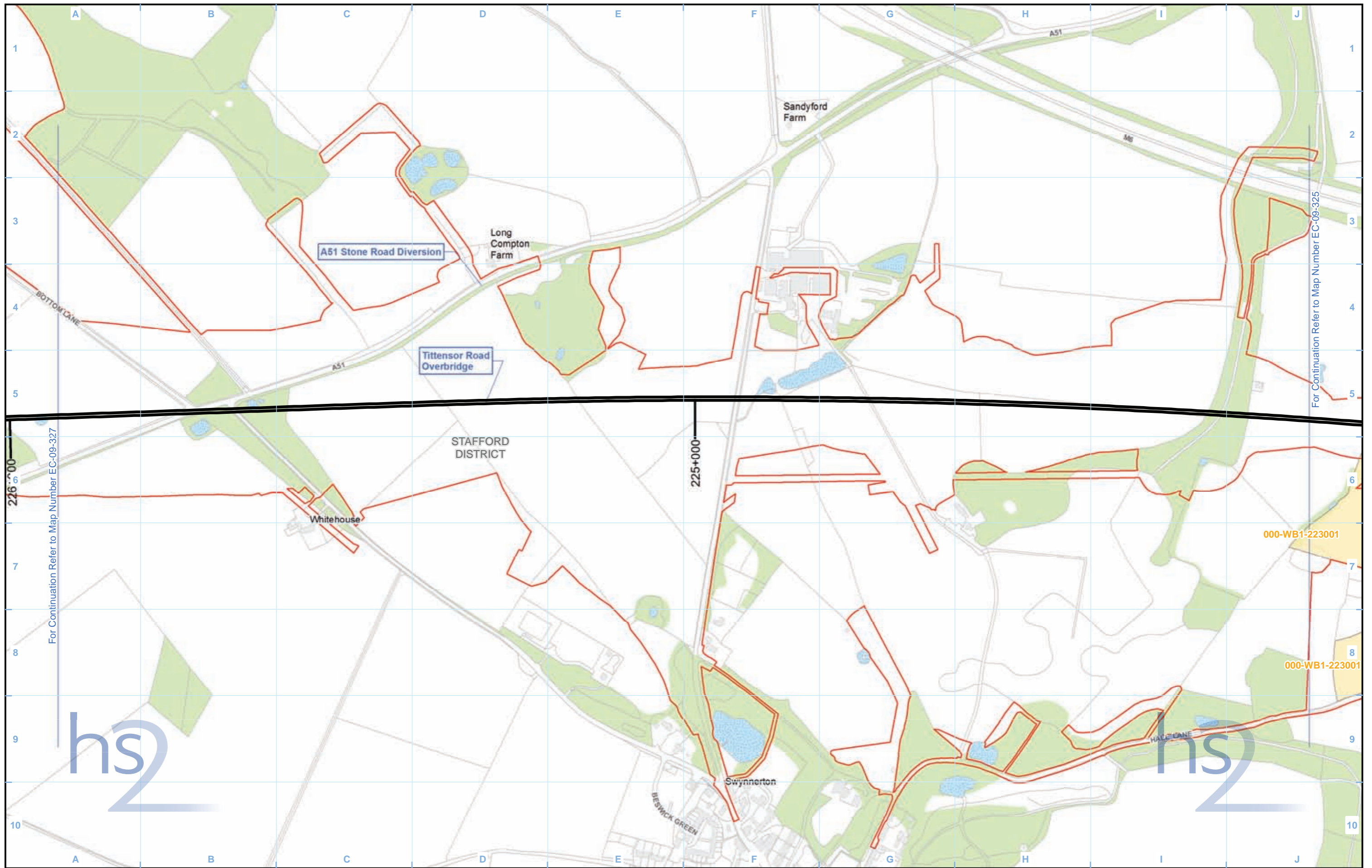
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-326

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 3: Stone and Swynnerton

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Date: 14/06/17

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For Continuation Refer to Map Number EC-09-325

225+000

STAFFORD DISTRICT

Whitehouse

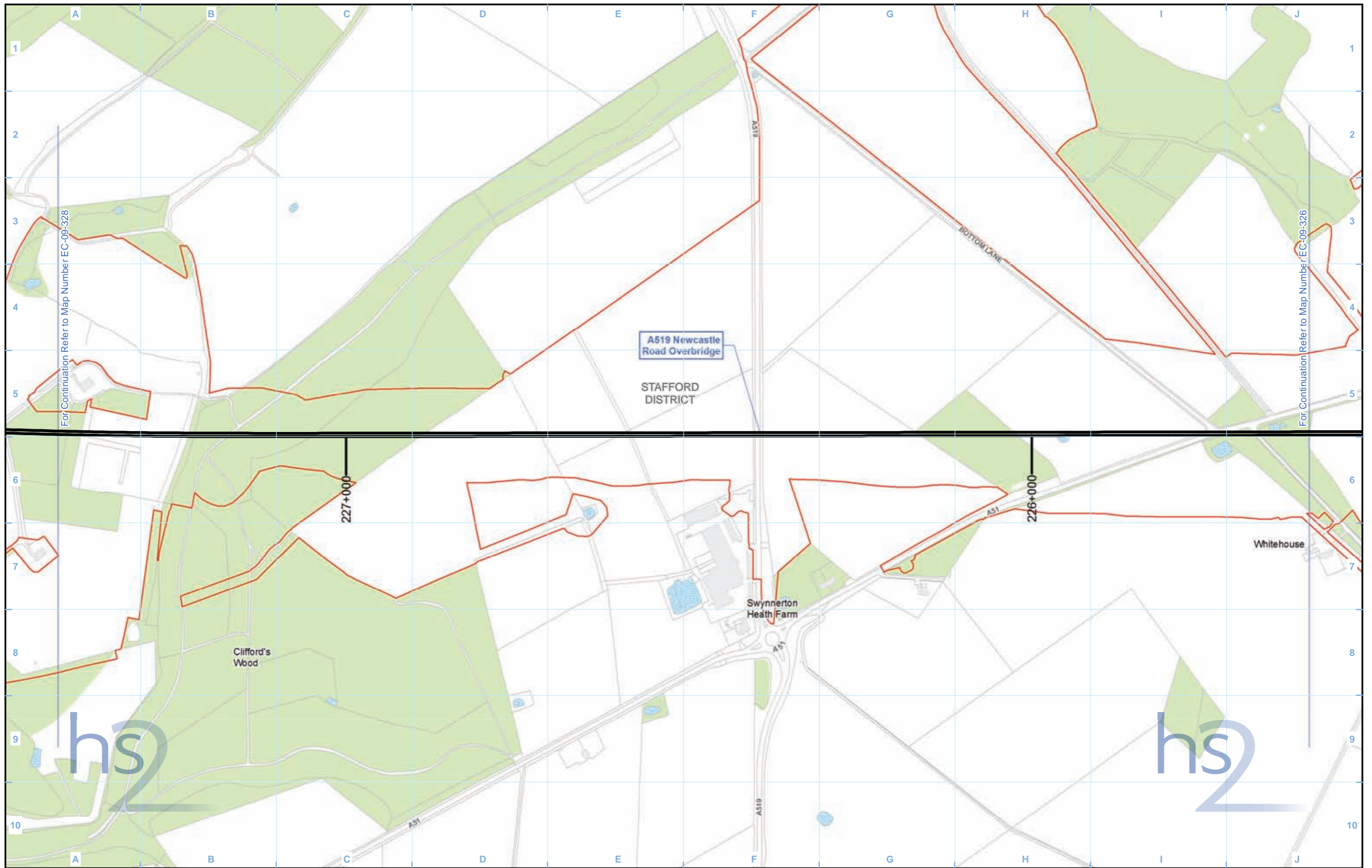
Swynnerton

000-WB1-223001

000-WB1-223001

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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-327

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 3: Stone and Swynnerton

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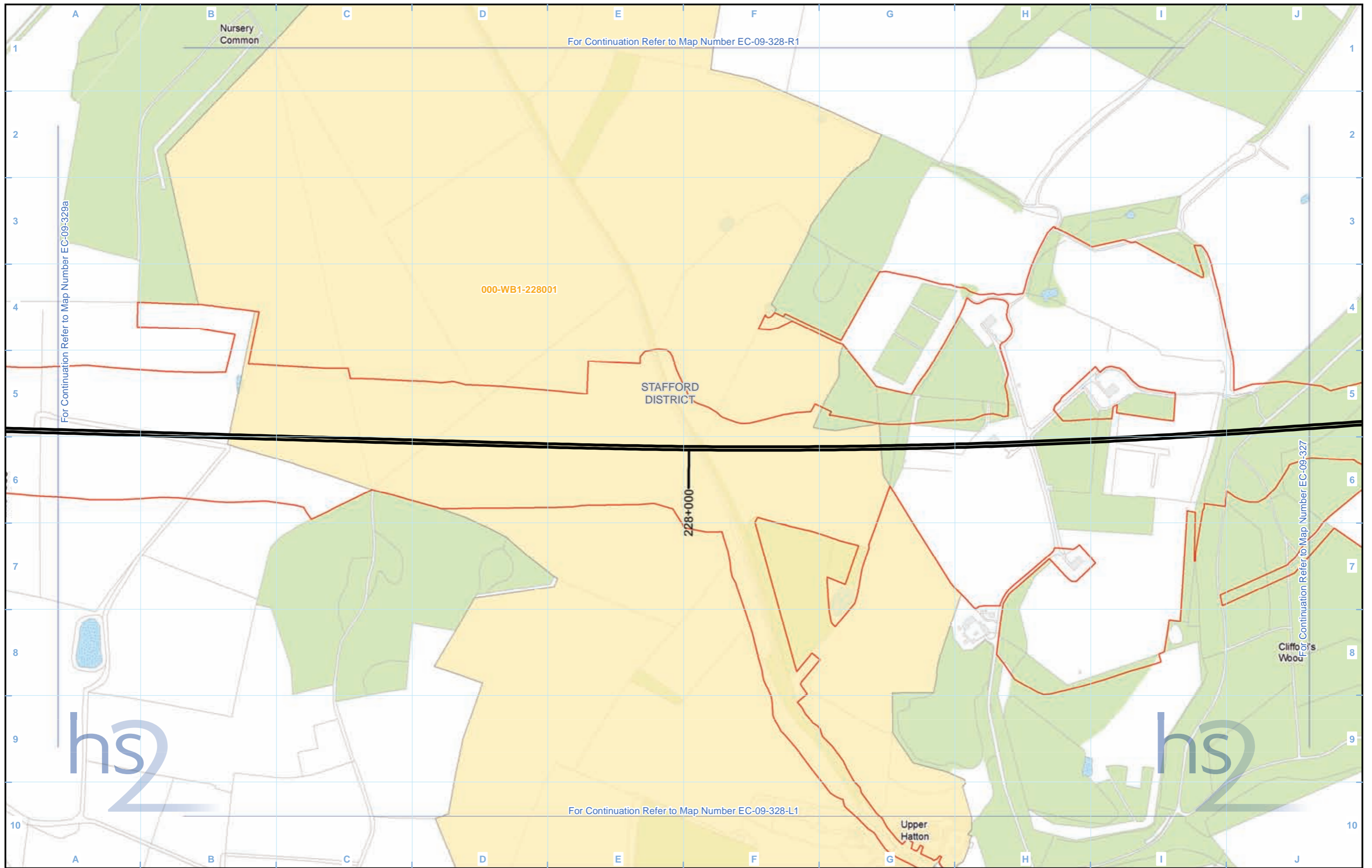
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For Continuation Refer to Map Number EC-09-329a

For Continuation Refer to Map Number EC-09-327

For Continuation Refer to Map Number EC-09-328-L1

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number EC-09-328

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 3:
Stone and Swynnerton

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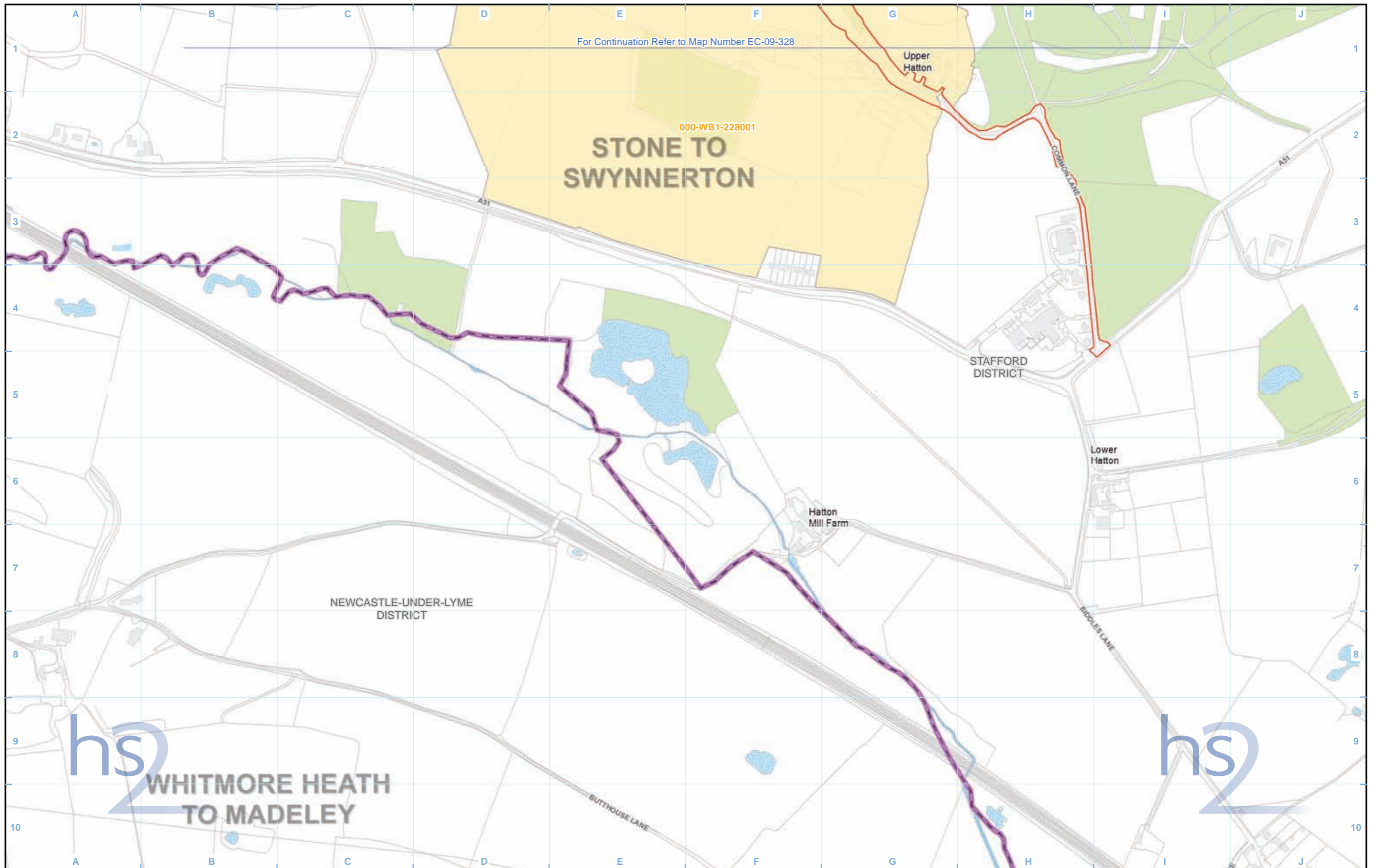
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number EC-09-328a-L1

Map Name Wintering and Passage Birds – Protected and Notable Species

Community Area 3: Stone and Swynnerton

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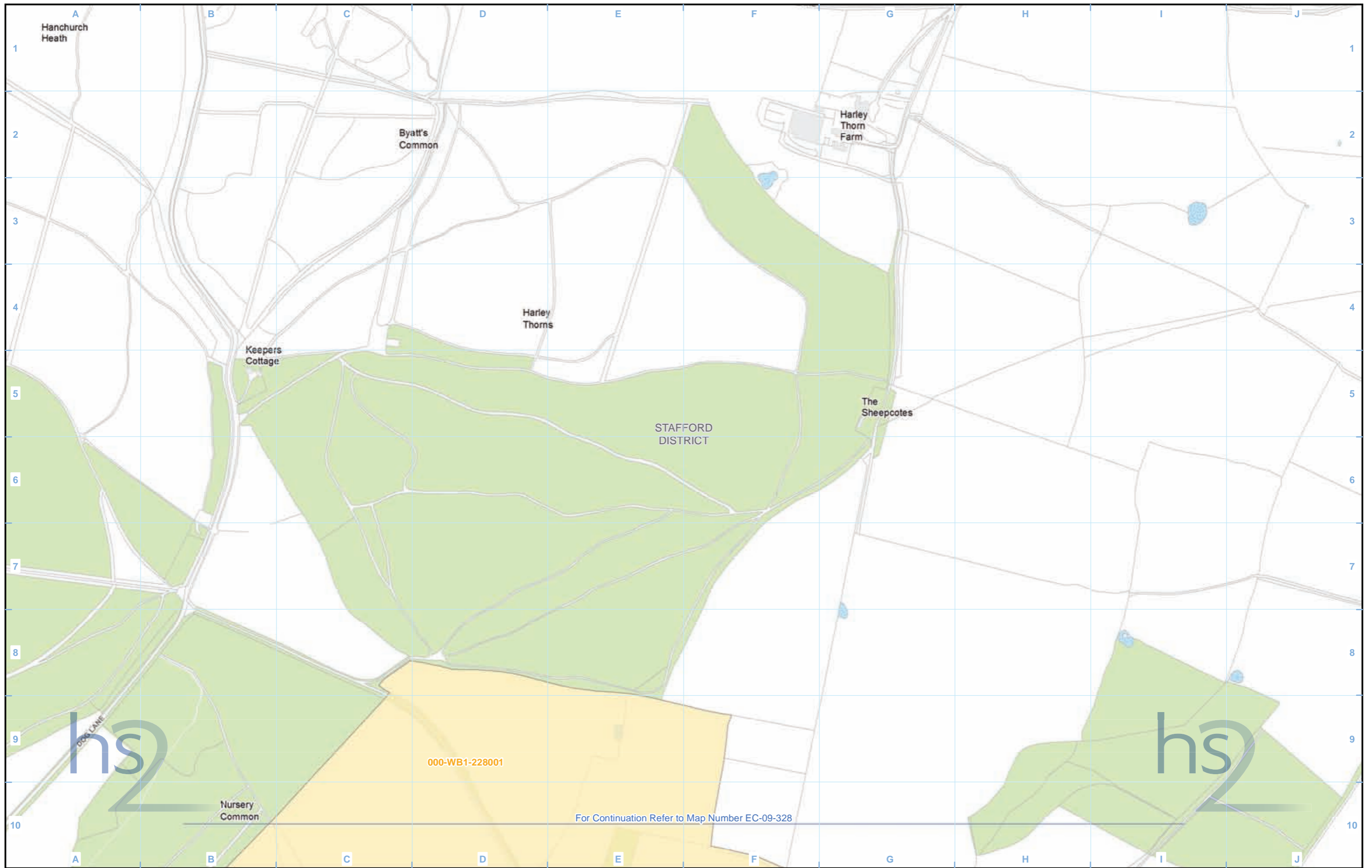
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-328-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 3:
Stone and Swynnerton

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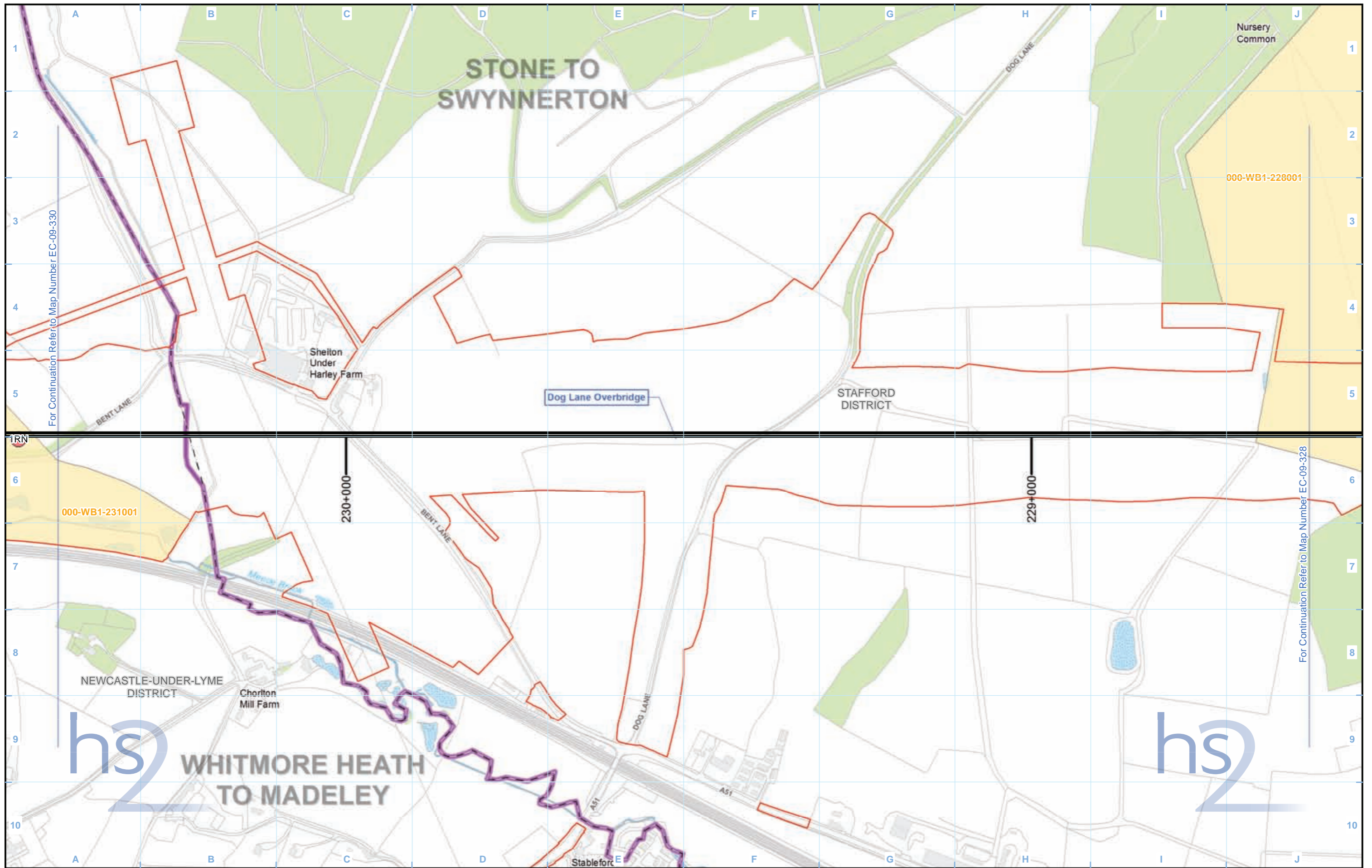
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-329a

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 3: Stone and Swynnerton

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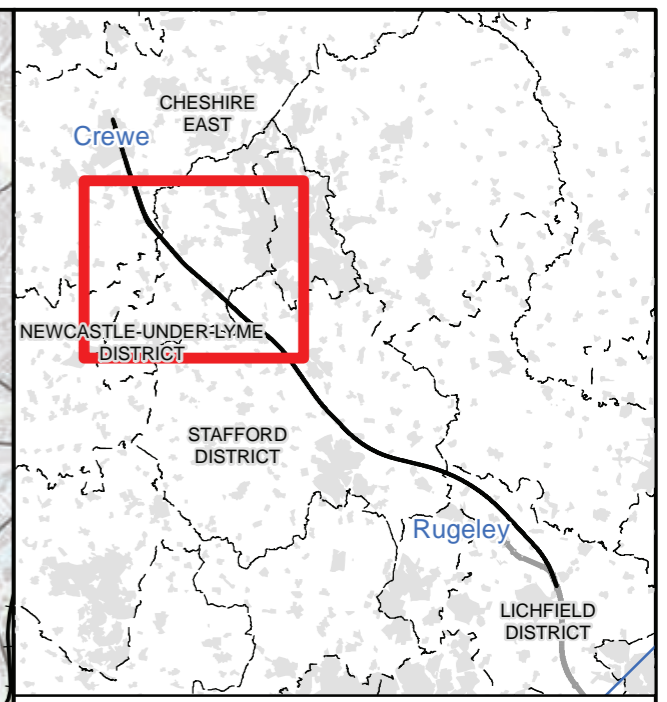
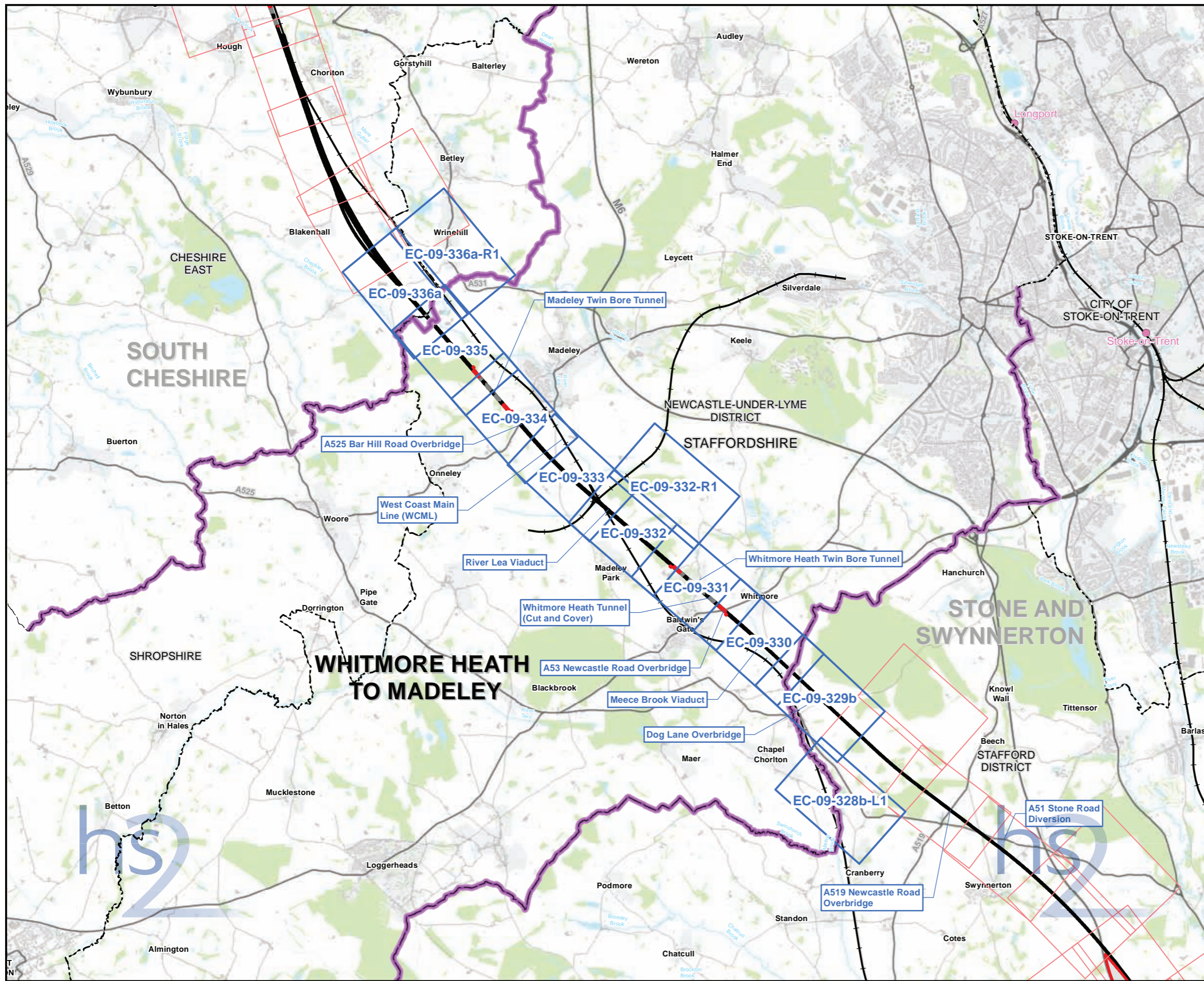
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Date: 14/06/17



Map Series Information:

This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

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

Map Number **EC-09-INDEX-CA4**

Map Name **Index Map of:
Wintering and Passage Birds –
Protected and Notable Species**

Community Area 4:
Whitmore Heath to Madeley

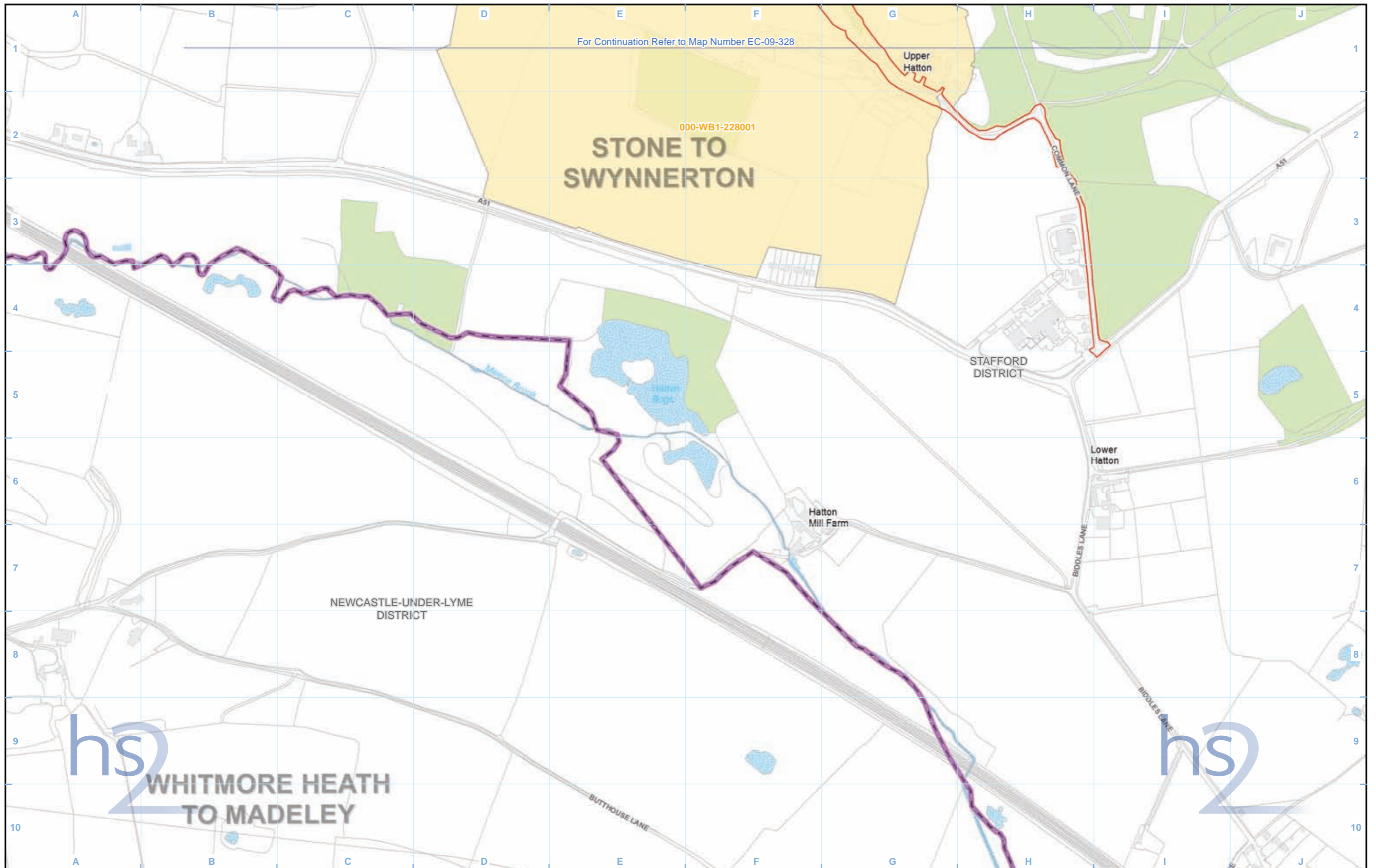
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Doc Number: C861-ARP-EV-MAP-000-079004-P03 **Date: 14/06/17**



For Continuation Refer to Map Number EC-09-328

000-WB1-228001

STONE TO SWYNNERTON

Upper Hatton

STAFFORD DISTRICT

Lower Hatton

Hatton Mill Farm

NEWCASTLE-UNDER-LYME DISTRICT

WHITMORE HEATH TO MADELEY

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Birds and Conservation Concern list relevant to assessment
	Other notable species relevant to assessment - see Volume 5 Appendices
	Wintering and passage birds - survey extent

Map Number	EC-09-328b-L1
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 4: Whitmore Heath to Madeley	

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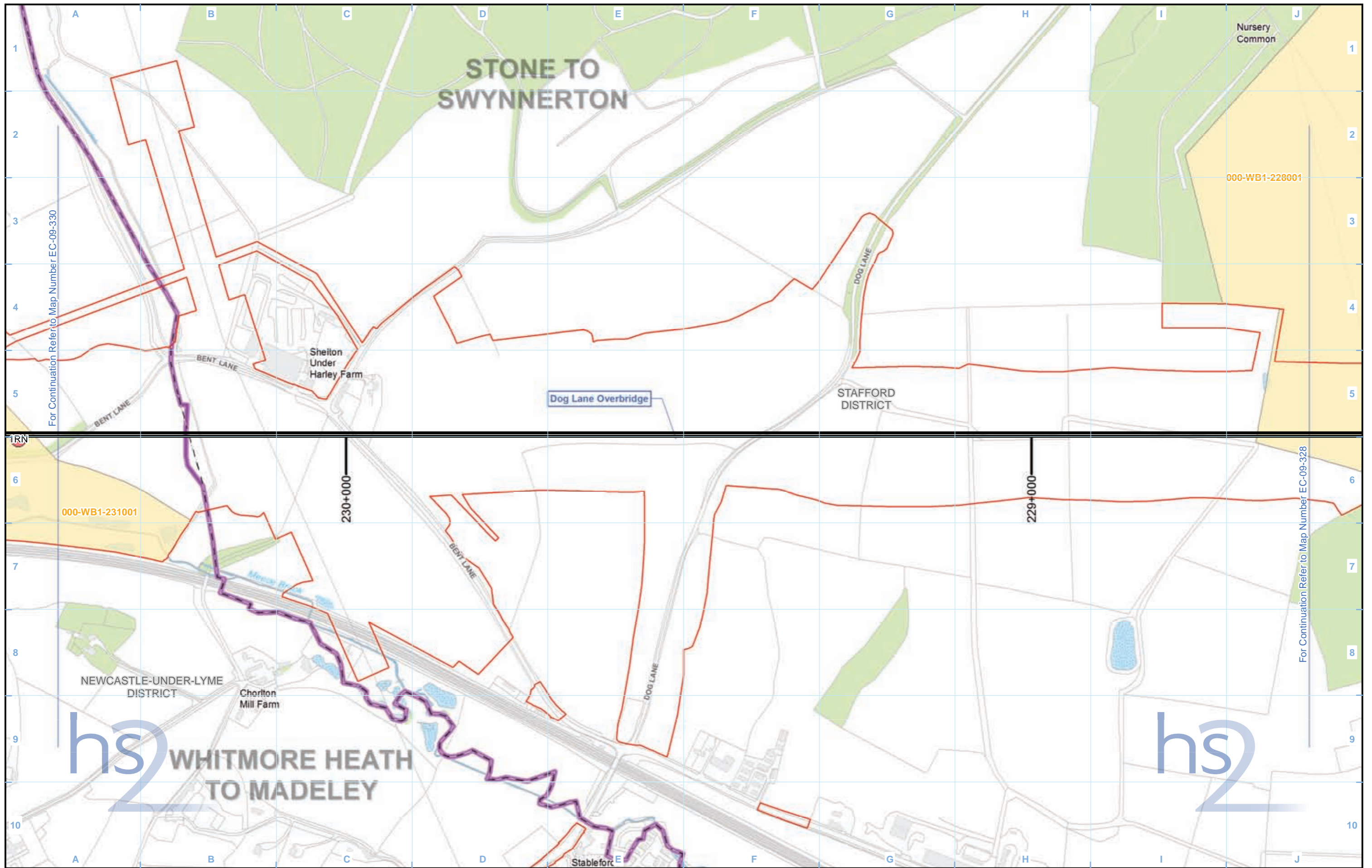
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Scale at A3: 1:5,000

0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-079329-P03

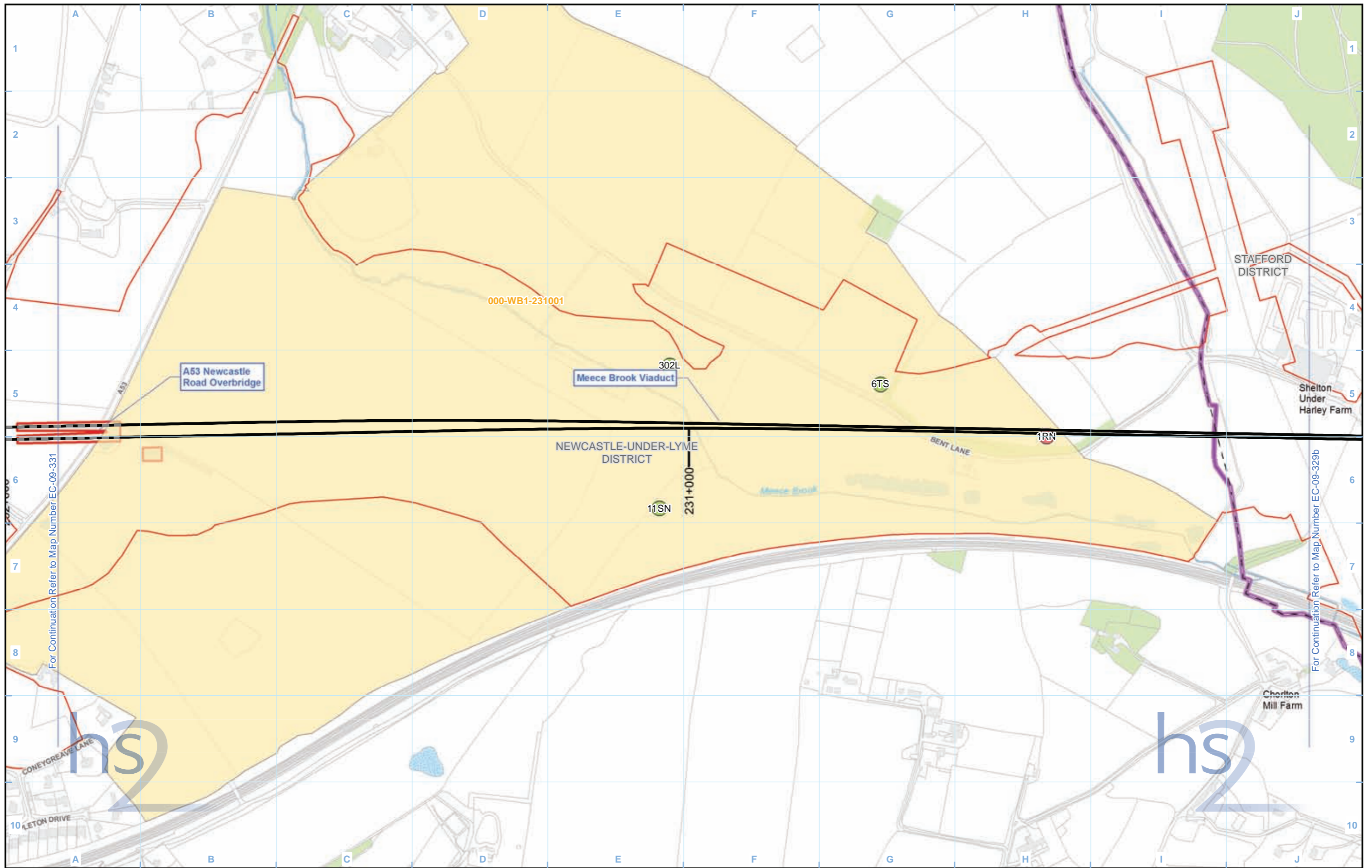
Date: 14/06/17



For Continuation Refer to Map Number EC-09-330

For Continuation Refer to Map Number EC-09-328

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices Wintering and passage birds - survey extent	
Map Number EC-09-329b				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.			
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Community Area 4: Whitmore Heath to Madeley		Doc Number: C861-ARP-EV-MAP-000-079429-P03		Date: 14/06/17			



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices
- Wintering and passage birds - survey extent

Map Number
EC-09-330

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 4:
Whitmore Heath to Madeley

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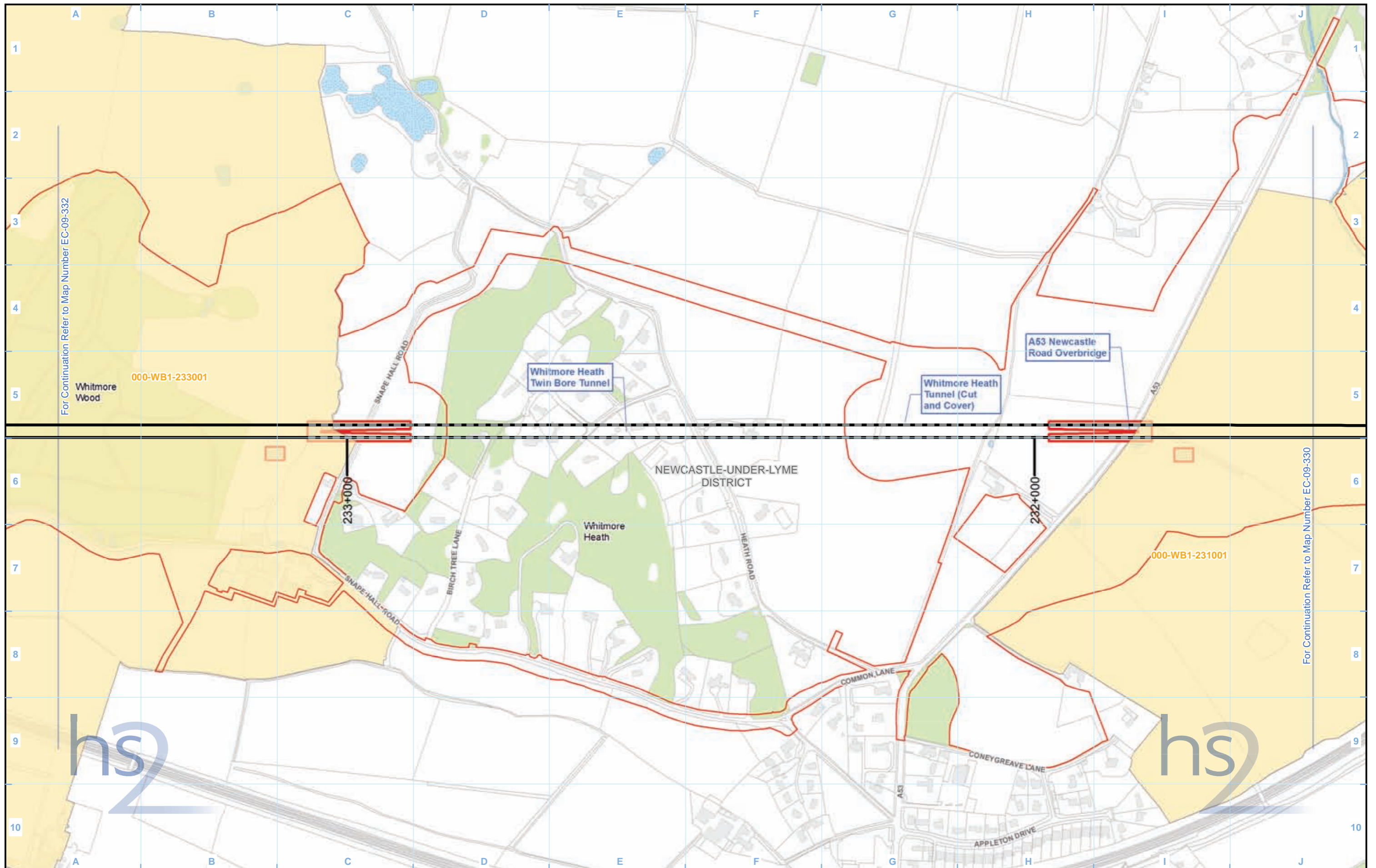
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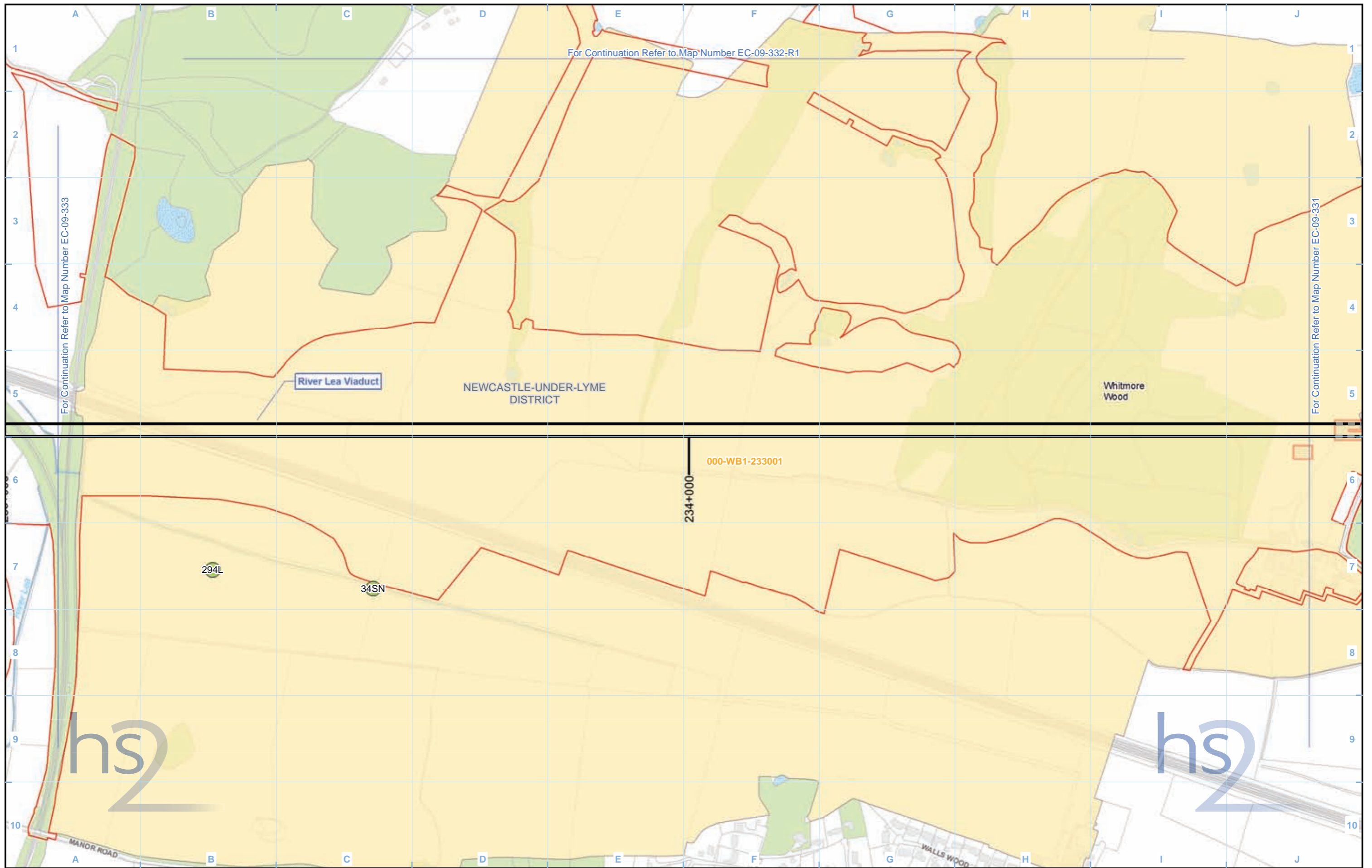
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For Continuation Refer to Map Number EC-09-332

For Continuation Refer to Map Number EC-09-330

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices Wintering and passage birds - survey extent	
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Map Name Wintering and Passage Birds – Protected and Notable Species		Scale at A3: 1:5,000 		Date: 14/06/17		Doc Number: C861-ARP-EV-MAP-000-079331-P03	
Community Area 4: Whitmore Heath to Madeley				Date: 14/06/17		Date: 14/06/17	



Legend	
Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland (verified by survey)
Land potentially required during construction	Species listed on Annex I of the Birds Directive
Community area boundary	Species listed on Schedule 1 of the Wildlife and Countryside Act
District/Borough boundary	Species listed on Birds and Conservation Concern list relevant to assessment
	Other notable species relevant to assessment - see Volume 5 Appendices
	Wintering and passage birds - survey extent

Map Number	EC-09-332
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 4: Whitmore Heath to Madeley	

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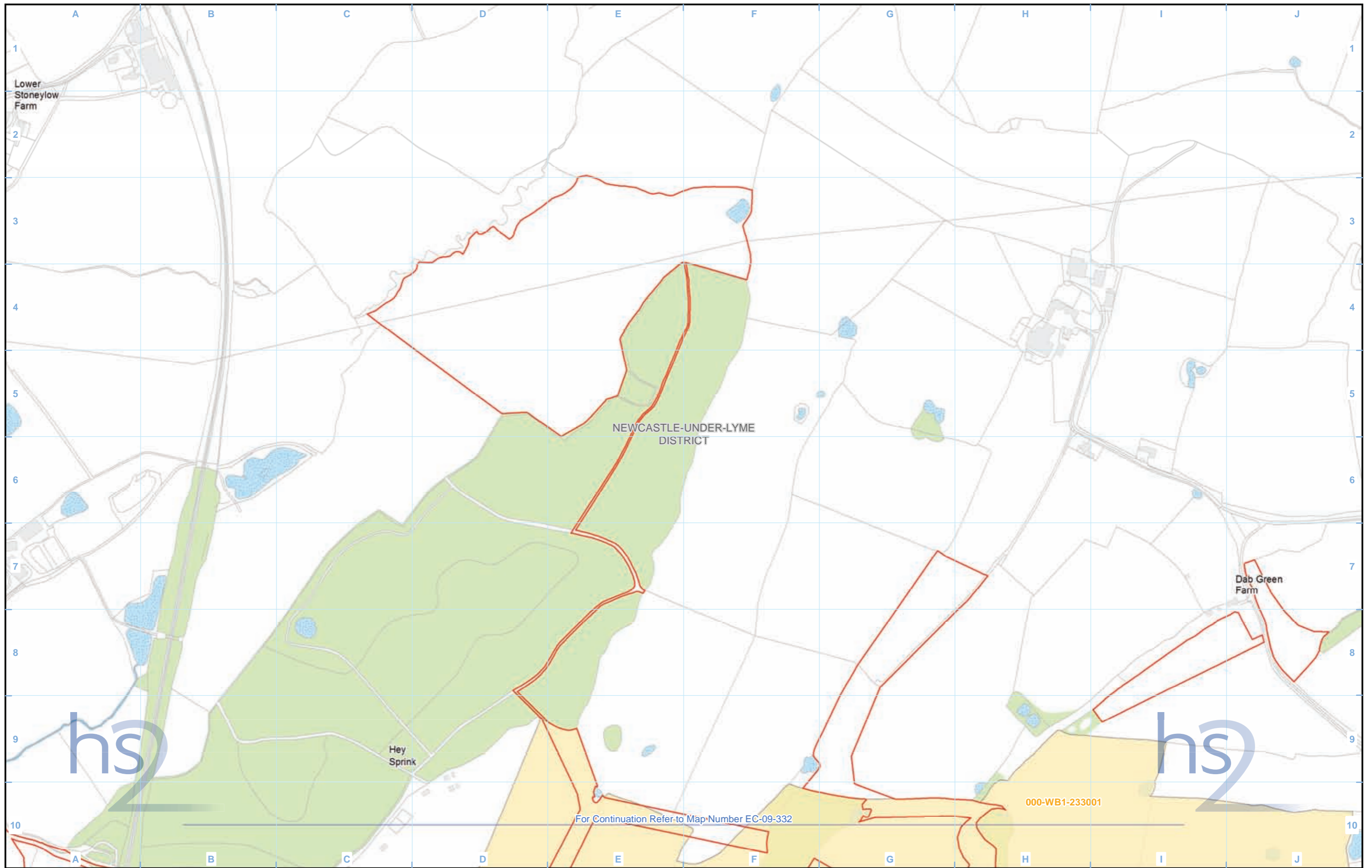
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-332-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 4:
Whitmore Heath to Madeley

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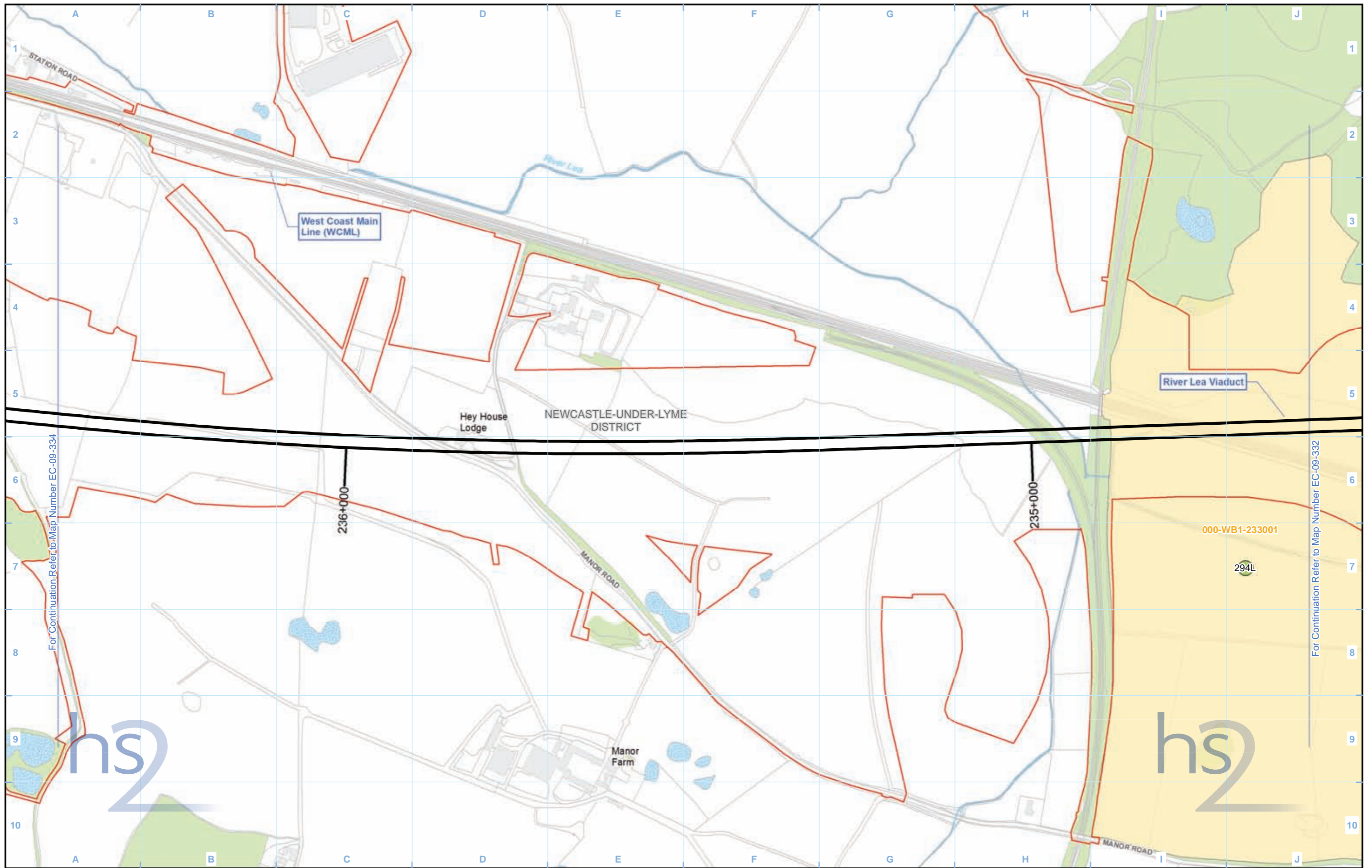
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Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-333**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 4:
Whitmore Heath to Madeley

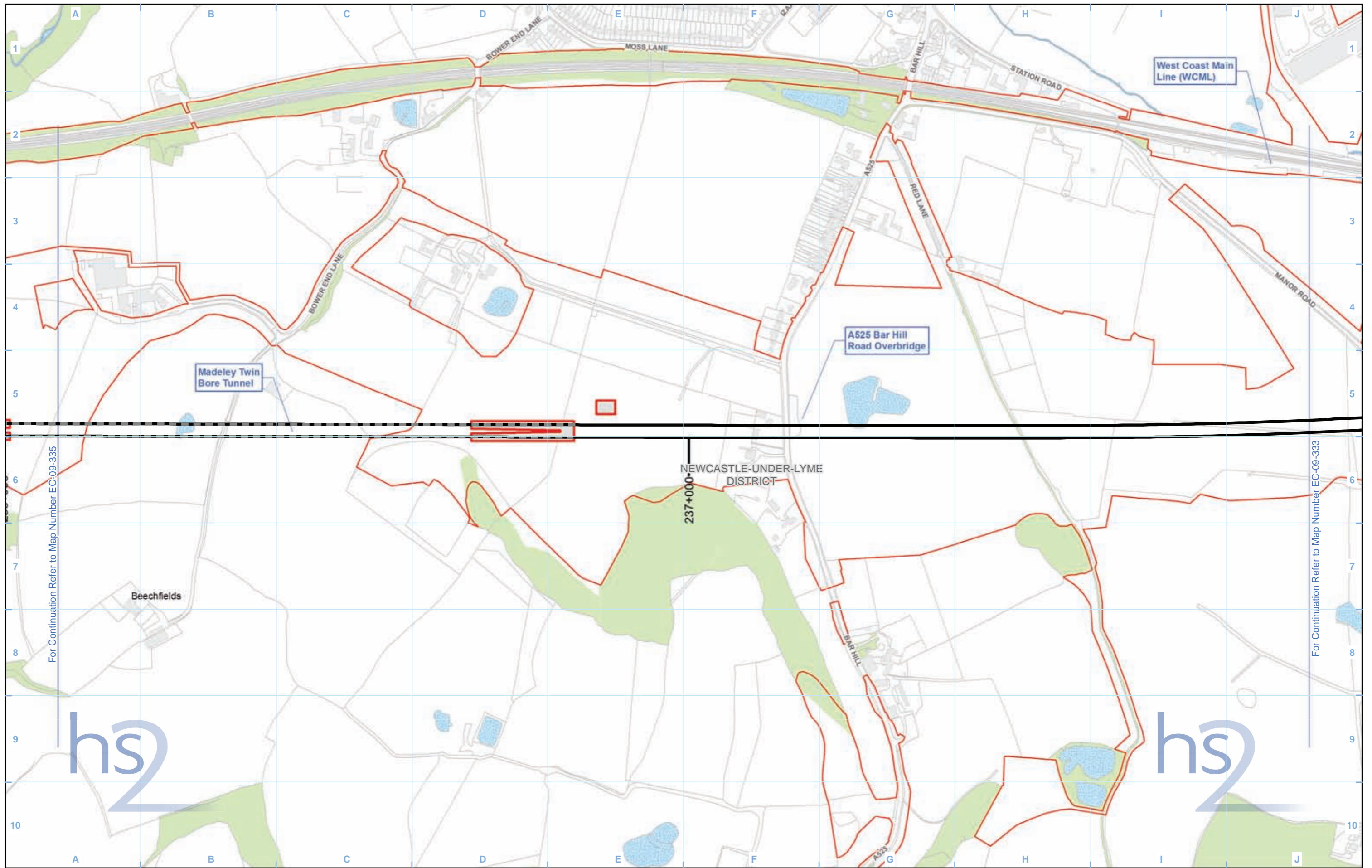
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Doc Number: C861-ARP-EV-MAP-000-079333-P03 Date: 14/06/17



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number
EC-09-334

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 4:
Whitmore Heath to Madeley

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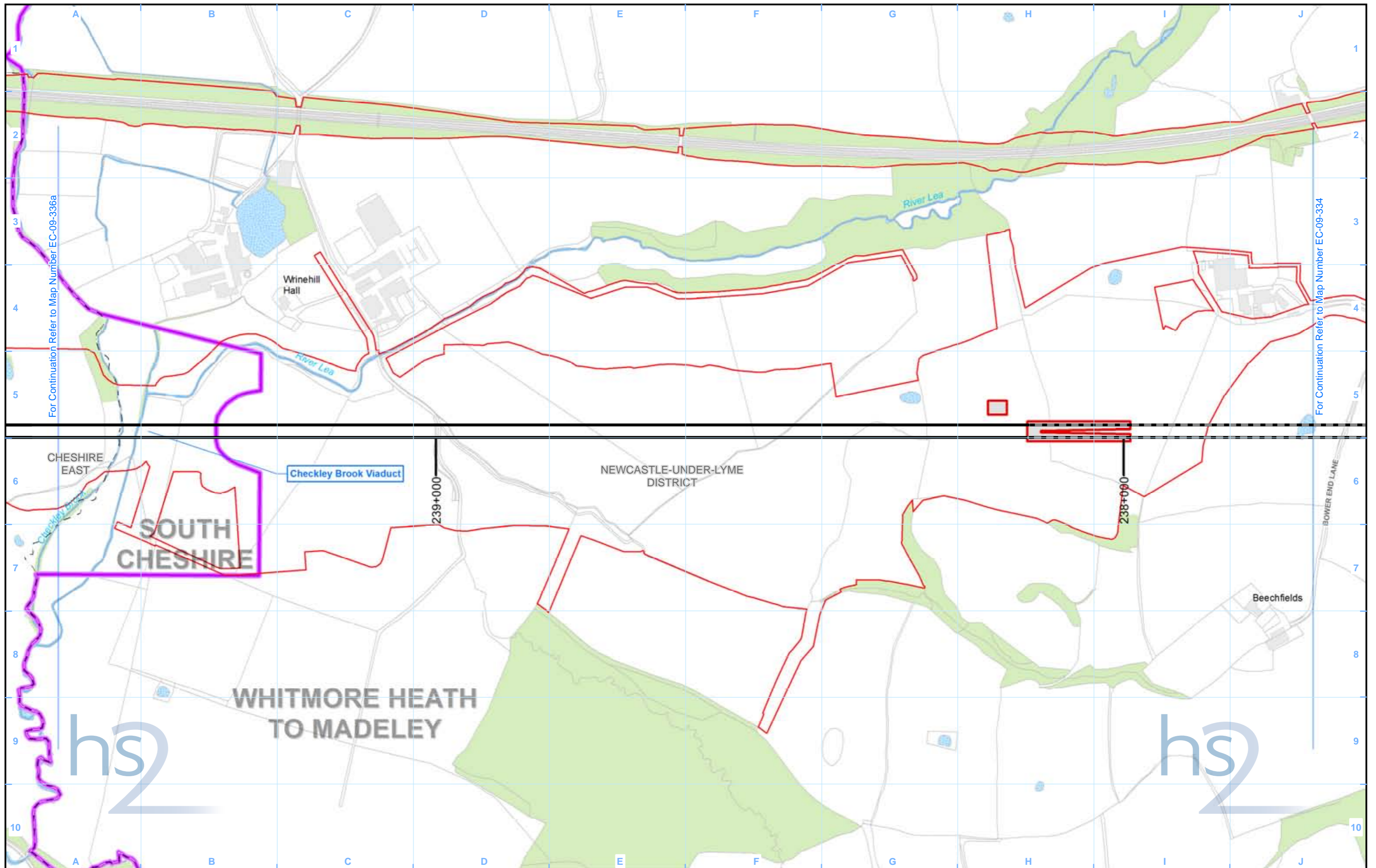
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Doc Number: C861-ARP-EV-MAP-000-079334-P03

Date: 14/06/17



Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Wintering and passage birds - survey extent
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Map Number	EC-09-335
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 4: Whitmore Heath to Madeley	

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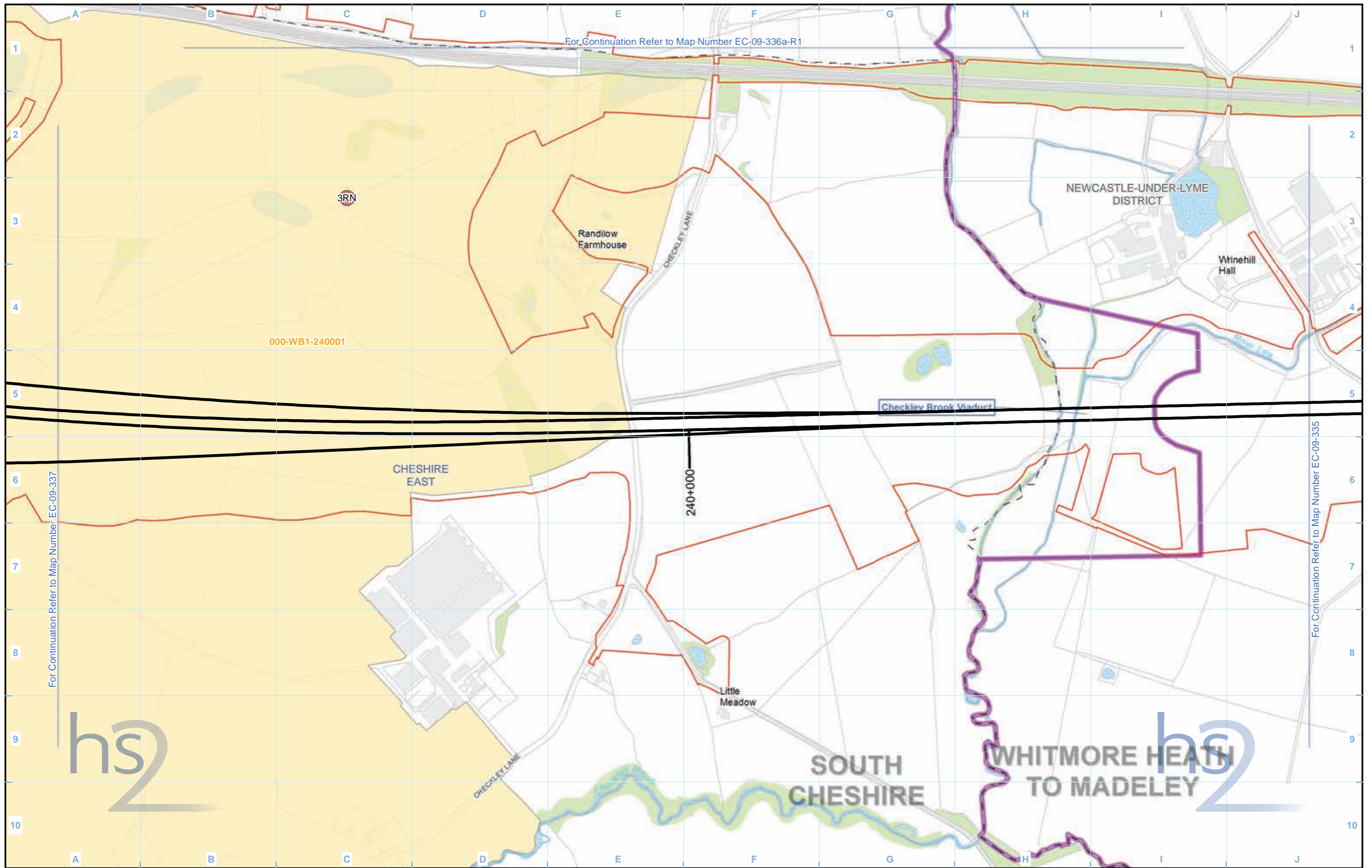
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0 50 100 150 200 Metres

Doc Number: C861-ARP-EV-MAP-000-079335-P03

Date: 14/06/17



For Continuation Refer to Map Number EC-09-336a-R1

3RN

Randilow Farmhouse

CHECKLEY LANE

NEWCASTLE-UNDER-LYME DISTRICT

Winehill Hall

000-WB1-240001

Checkley Brook Viaduct

240+000

CHESHIRE EAST

Little Meadow

SOUTH CHESHIRE

WHITMORE HEATH TO MADELEY

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland (verified by survey)
- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act
- Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
- Species listed on Birds and Conservation Concern list relevant to assessment
- Other notable species relevant to assessment - see Volume 5 Appendices
- Wintering and passage birds - survey extent

Map Number
EC-09-336a

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 4:
Whitmore Heath to Madeley

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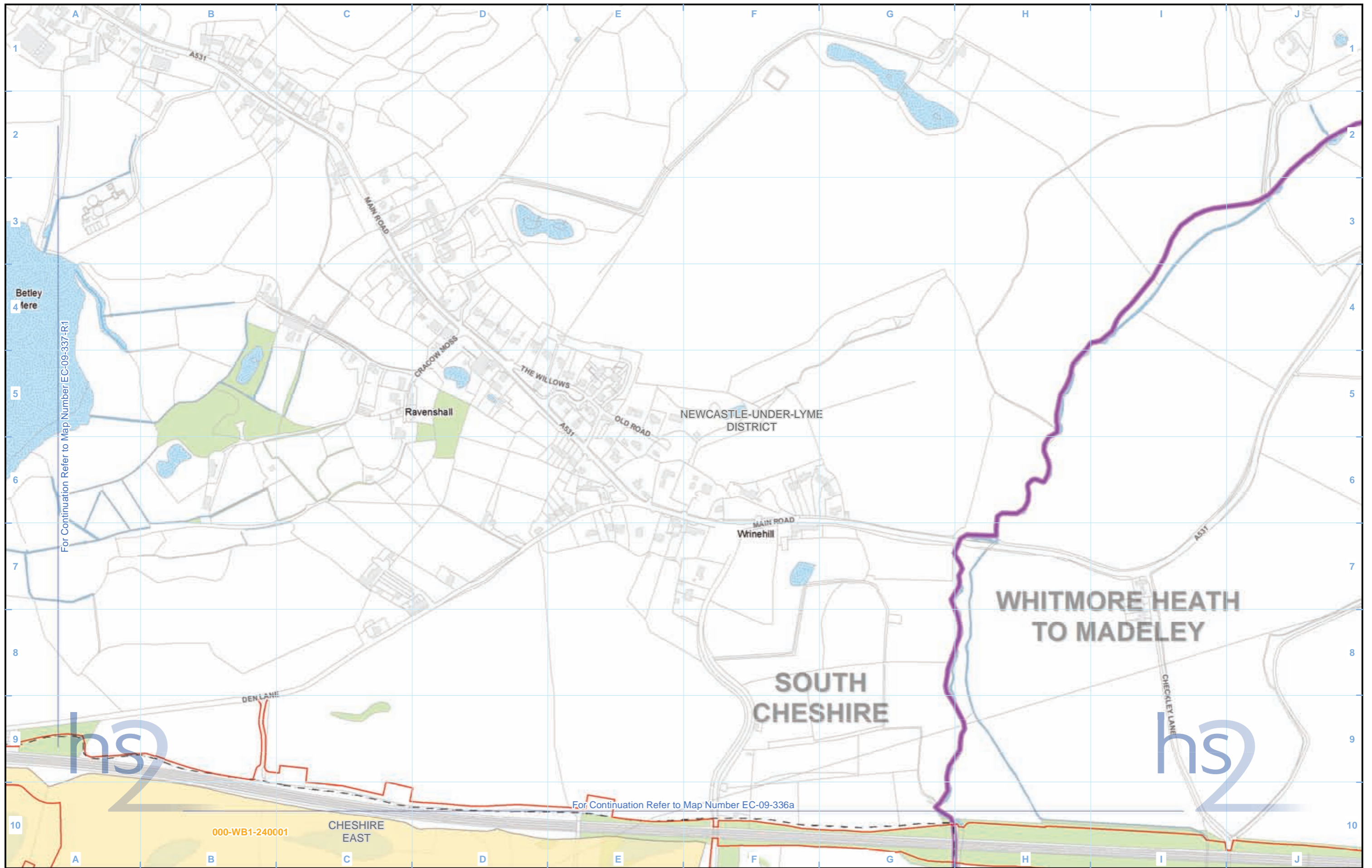
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Date: 14/06/17



For Continuation Refer to Map Number EC-09-337-R1

For Continuation Refer to Map Number EC-09-336a

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-336a-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 4:
Whitmore Heath to Madeley

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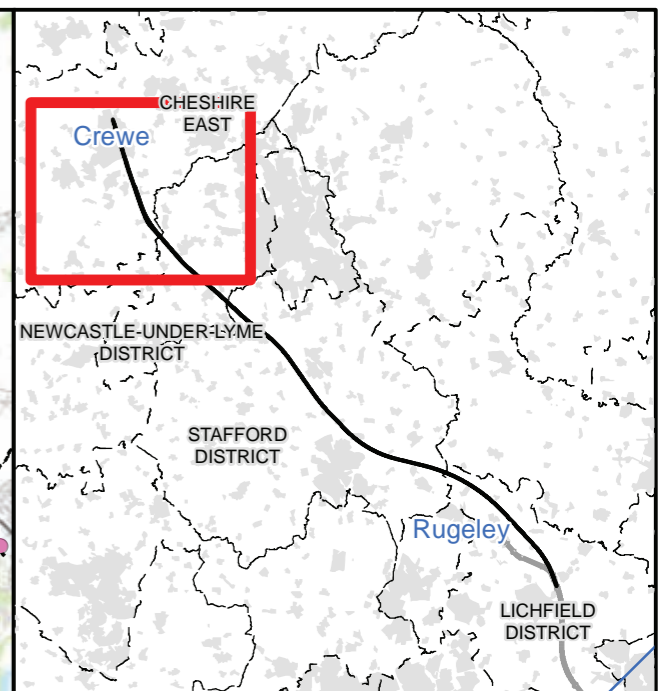
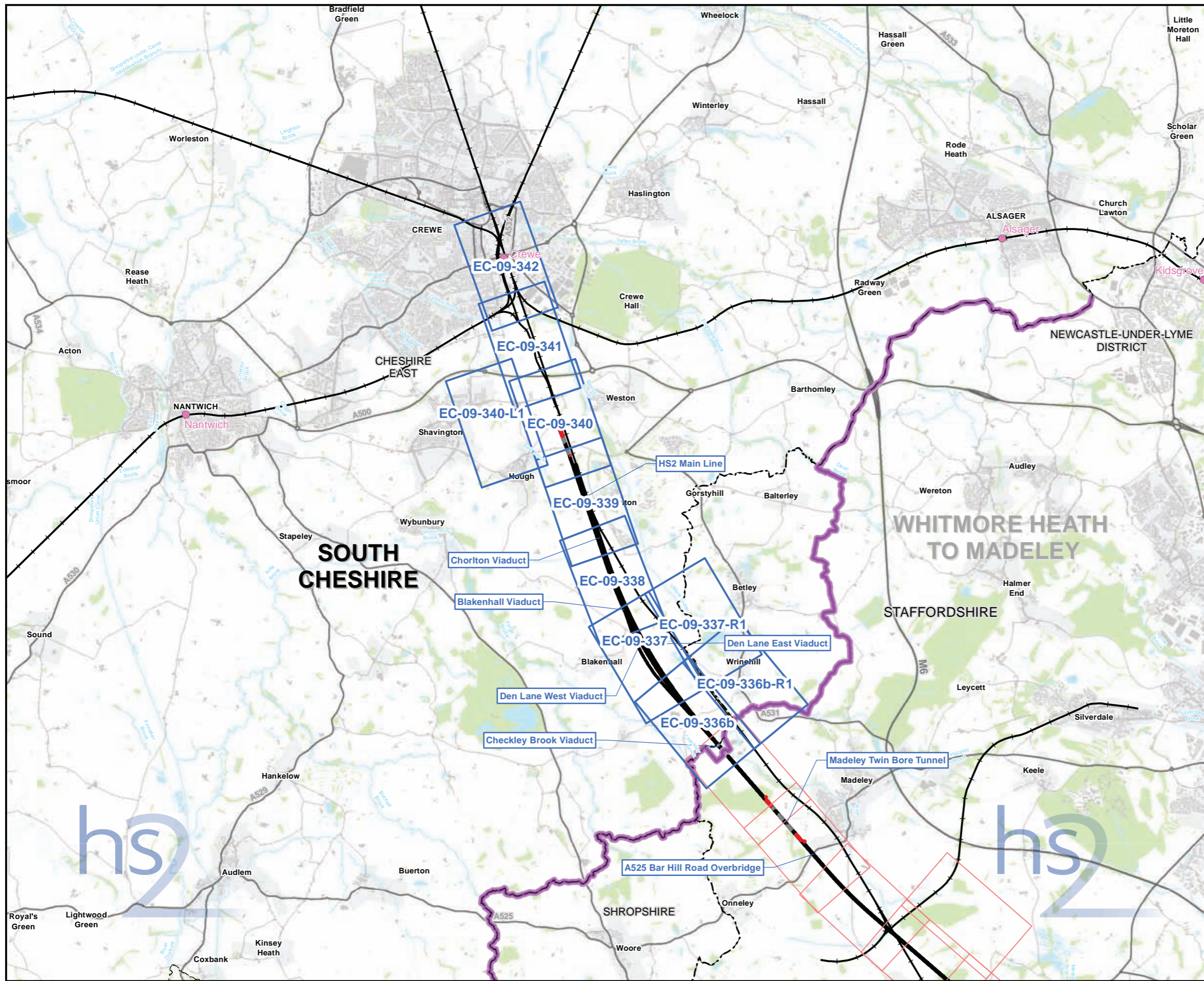
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Date: 14/06/17



Map Series Information:

This map series shows records of selected protected/notable wintering birds that are considered most relevant in considering the impacts of the Proposed Scheme.

Main Map Legend

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

Map Number: EC-09-INDEX-CA5

Map Name: Index Map of: Wintering and Passage Birds – Protected and Notable Species

Community Area 5: South Cheshire

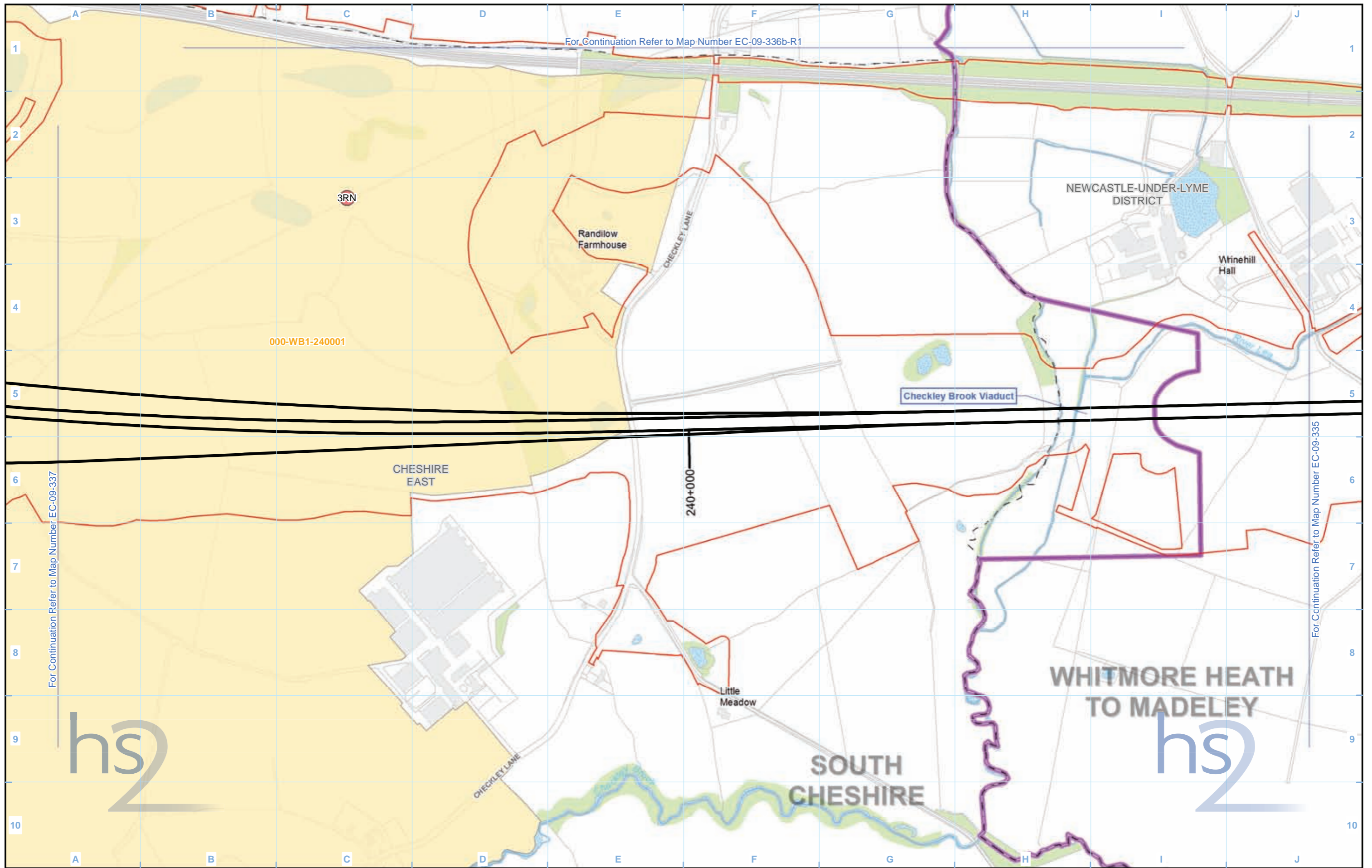
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For Continuation Refer to Map Number EC-09-336b-R1

3RN

000-WB1-240001

240+000

Checkley Brook Viaduct

CHESHIRE EAST

Little Meadow

SOUTH CHESHIRE

WHITMORE HEATH TO MADELEY

For Continuation Refer to Map Number EC-09-337

For Continuation Refer to Map Number EC-09-335

Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Land potentially required during construction
	Community area boundary
	District/Borough boundary
	Watercourse
	Water body
	Woodland (verified by survey)
	Species listed on Annex I of the Birds Directive
	Species listed on Schedule 1 of the Wildlife and Countryside Act
	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
	Species listed on Birds and Conservation Concern list relevant to assessment
	Other notable species relevant to assessment - see Volume 5 Appendices
	Wintering and passage birds - survey extent

Map Number	EC-09-336b
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area	Community Area 5: South Cheshire

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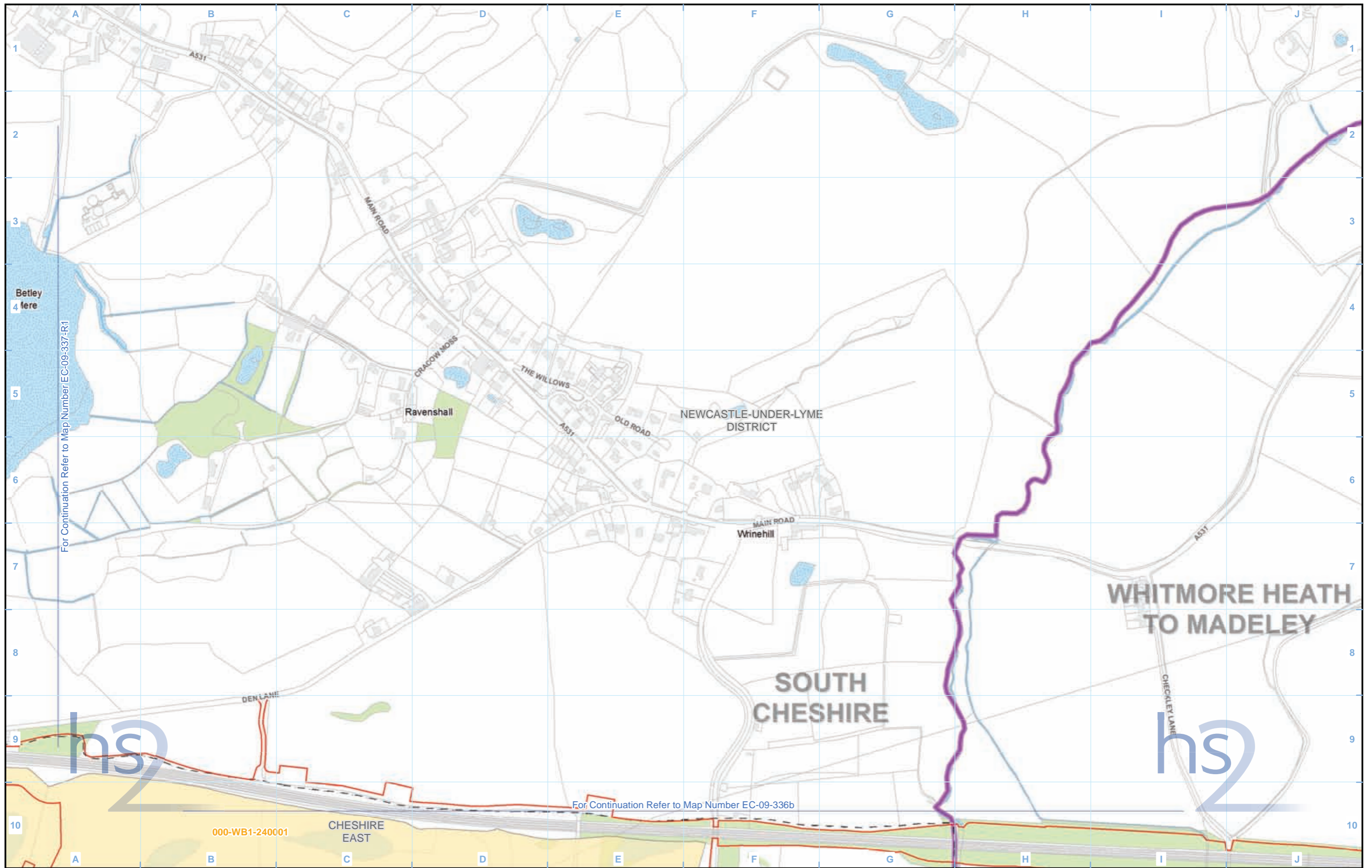
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Date: 14/06/17



For Continuation Refer to Map Number EC-09-337-R1

For Continuation Refer to Map Number EC-09-336b

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-336b-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 5:
South Cheshire

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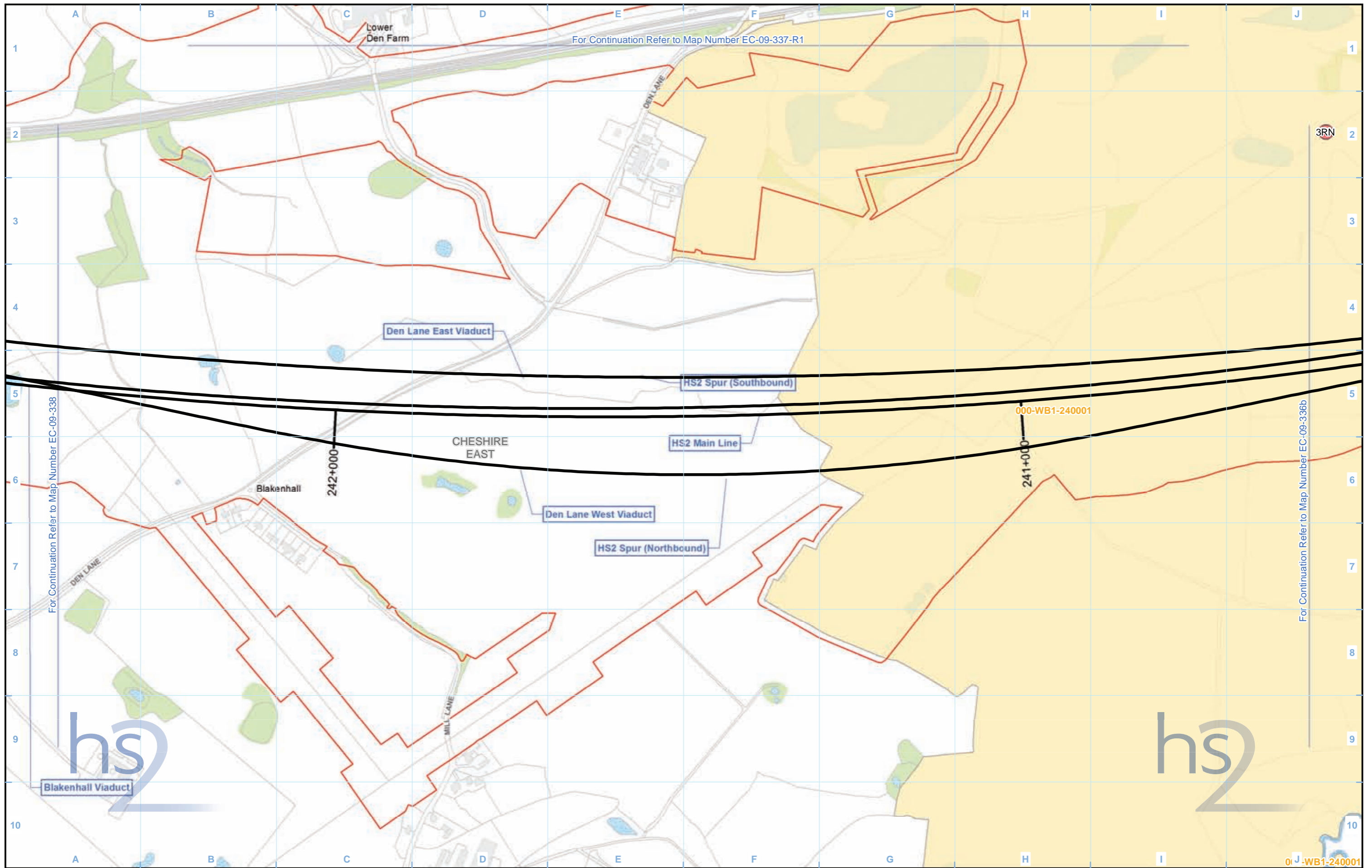
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-337

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 5: South Cheshire

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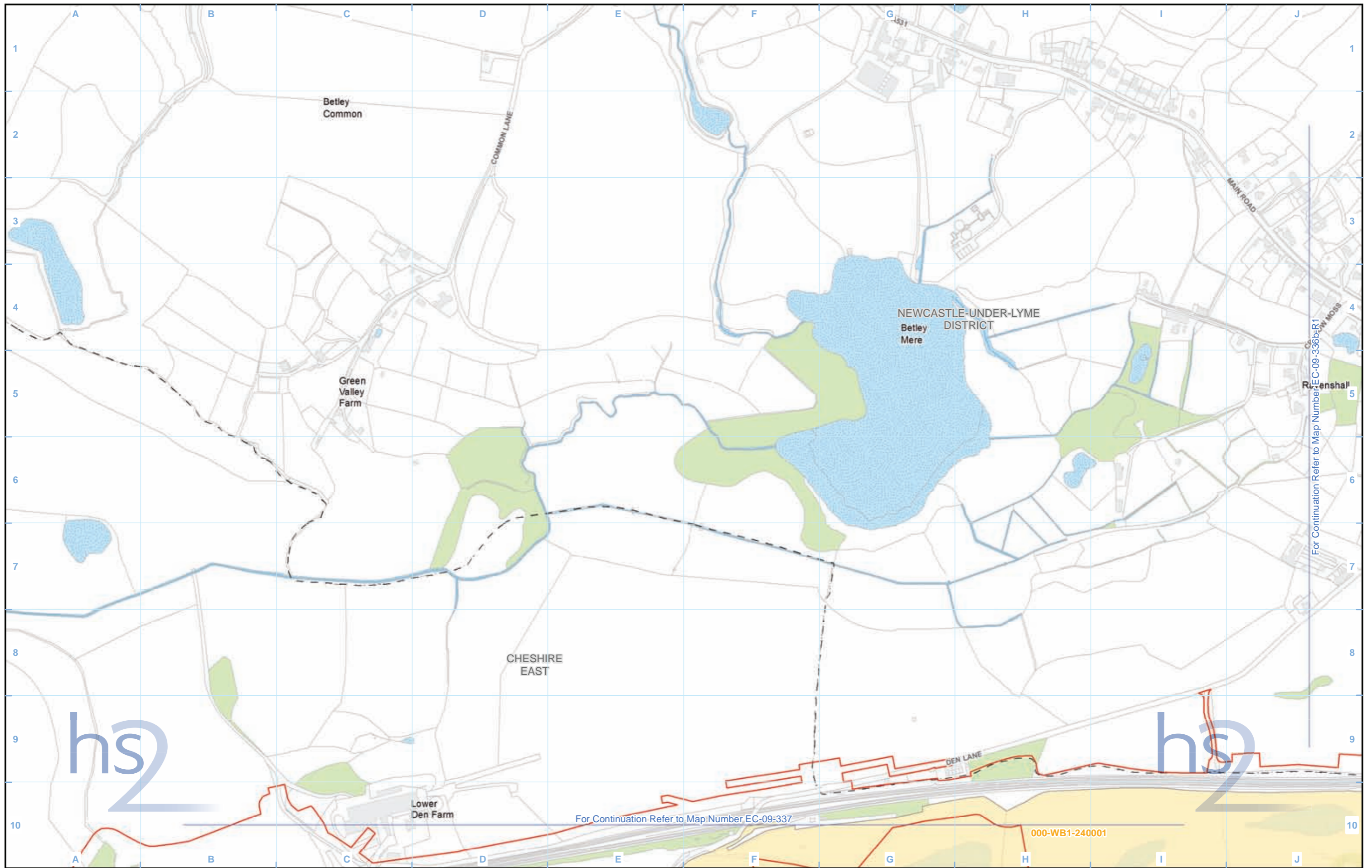
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Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-337-R1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 5:
South Cheshire

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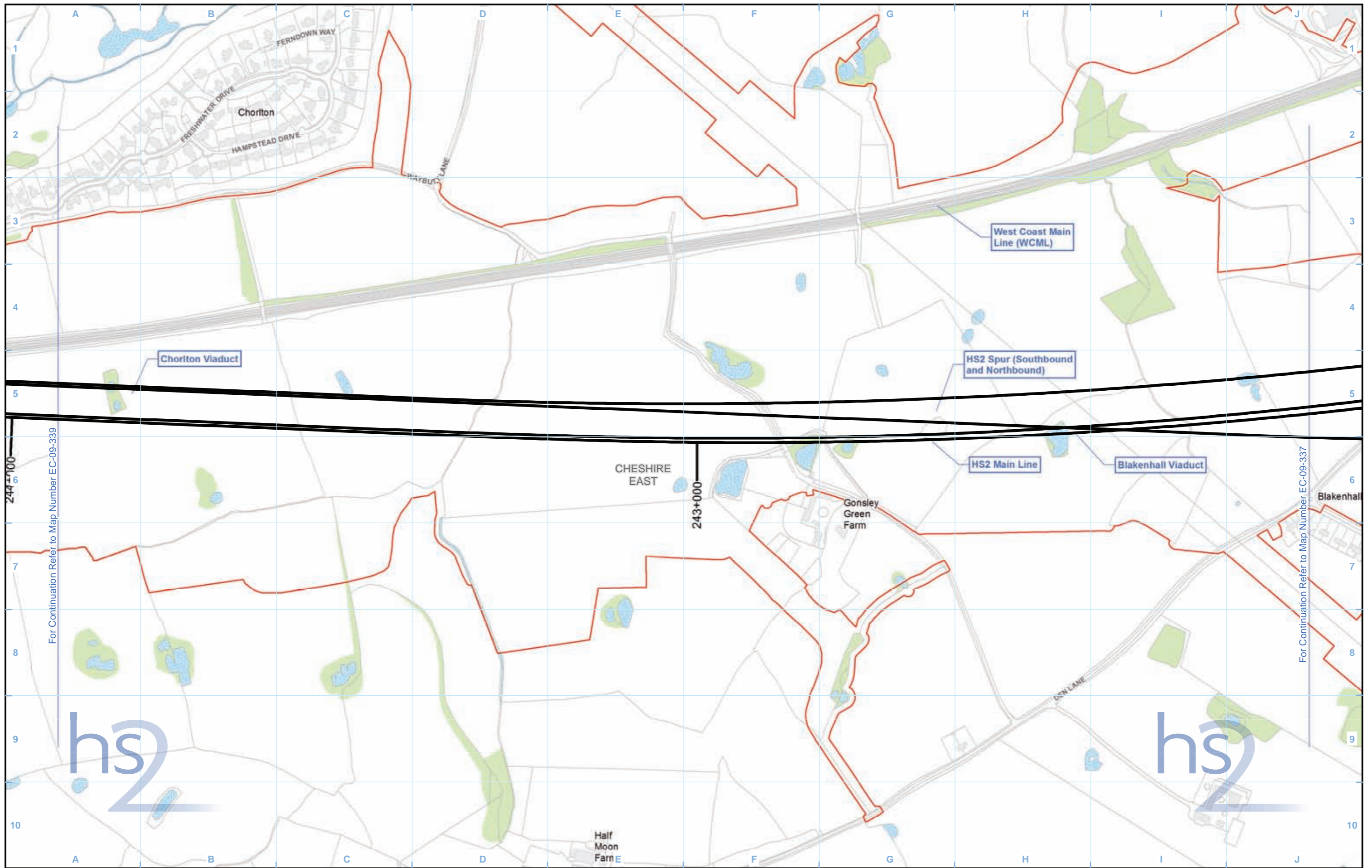
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Date: 14/06/17

For Continuation Refer to Map Number EC-09-336b-R1

For Continuation Refer to Map Number EC-09-337

000-WB1-240001



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number
EC-09-338

Map Name
Wintering and Passage Birds – Protected and Notable Species

Community Area 5:
South Cheshire

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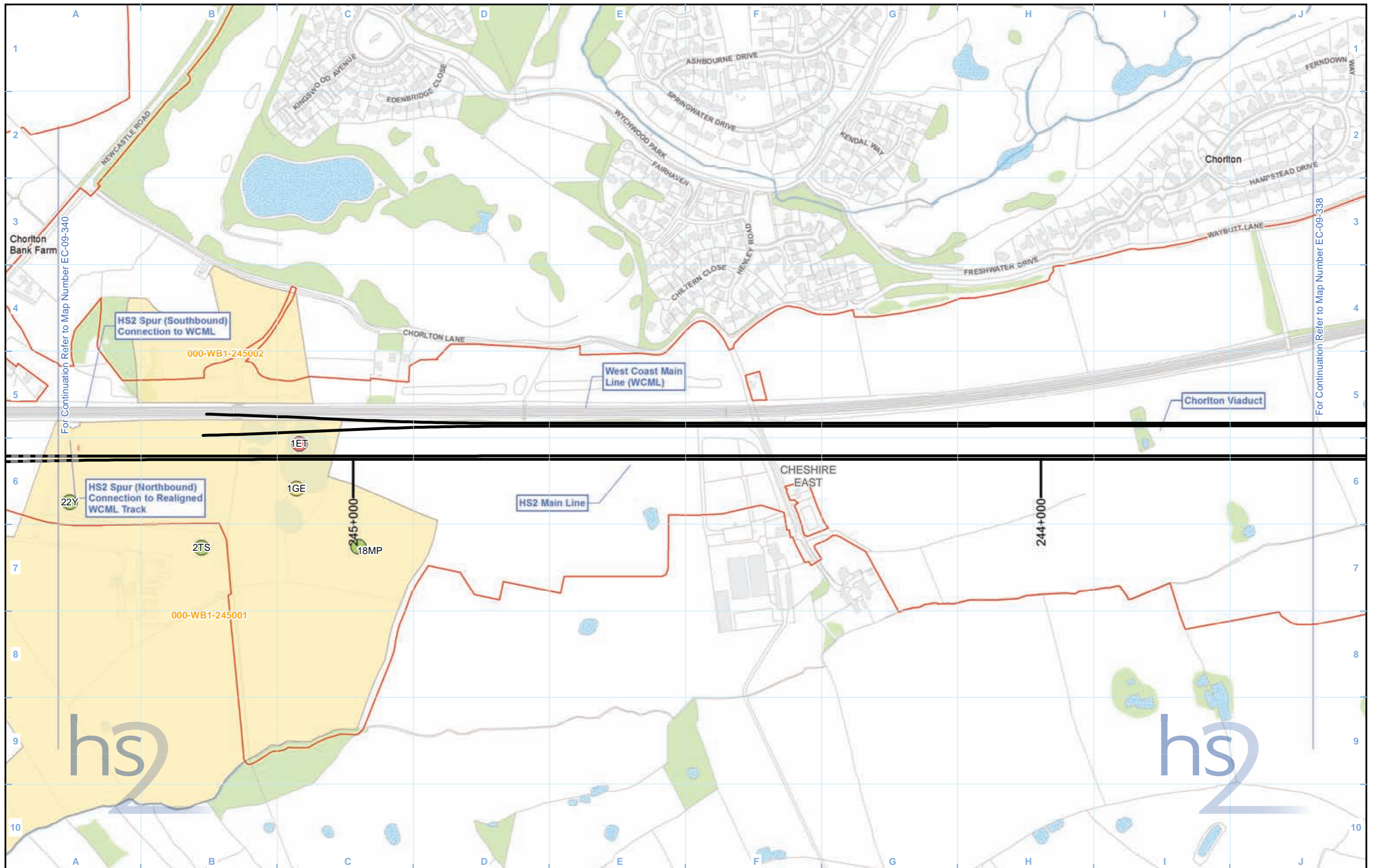
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For Continuation Refer to Map Number EC-09-339

For Continuation Refer to Map Number EC-09-337

242+700

243+000



Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number: EC-09-339

Map Name: **Wintering and Passage Birds – Protected and Notable Species**

Community Area 5: South Cheshire

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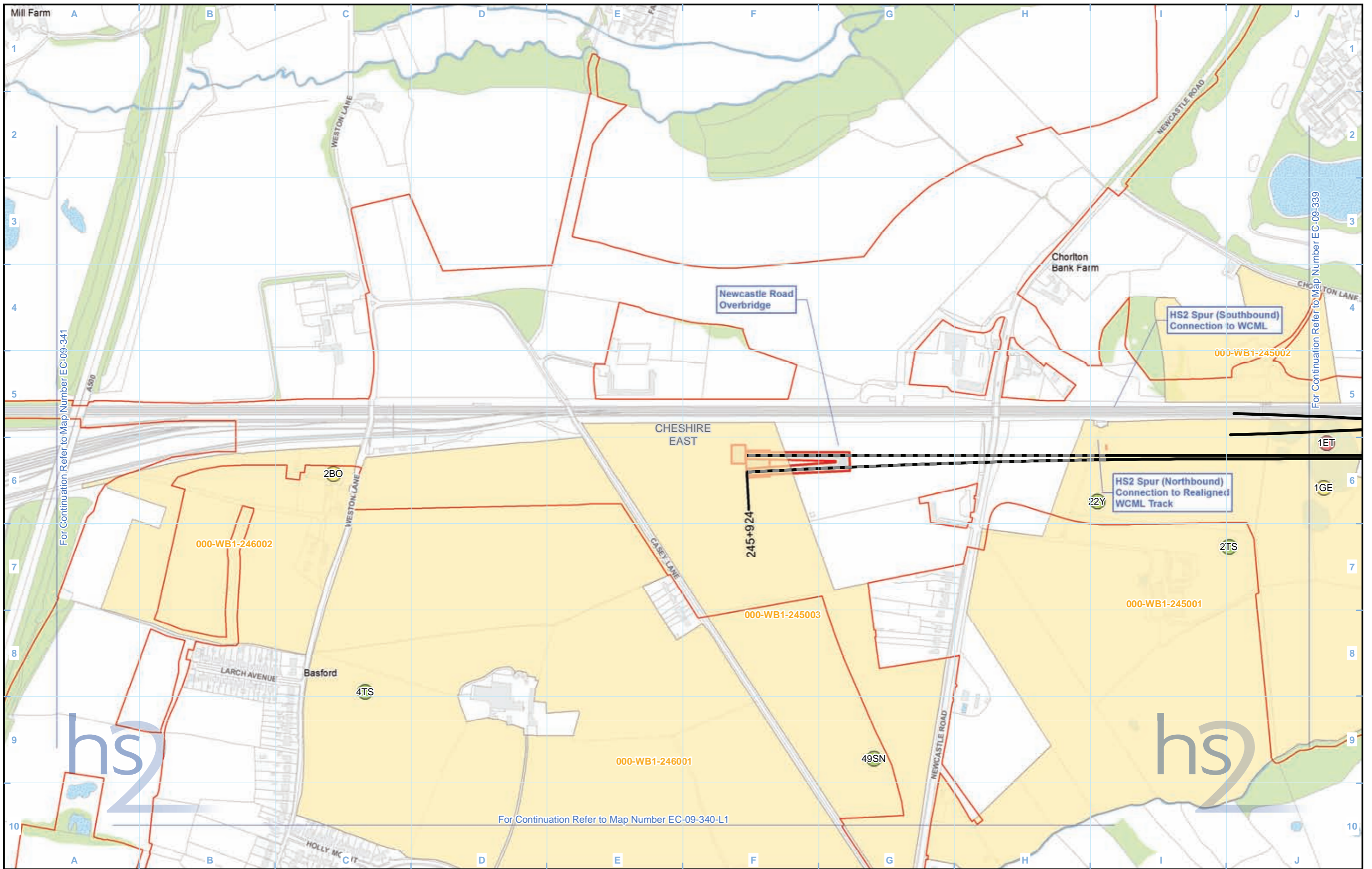
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Doc Number: C861-ARP-EV-MAP-000-079339-P03

Date: 14/06/17

For Continuation Refer to Map Number EC-09-340

For Continuation Refer to Map Number EC-09-338



Legend

<ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland (verified by survey) 	<ul style="list-style-type: none"> Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act 	<ul style="list-style-type: none"> Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices 	<ul style="list-style-type: none"> Wintering and passage birds - survey extent
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Map Number: EC-09-340

Map Name: Wintering and Passage Birds – Protected and Notable Species

Community Area 5: South Cheshire

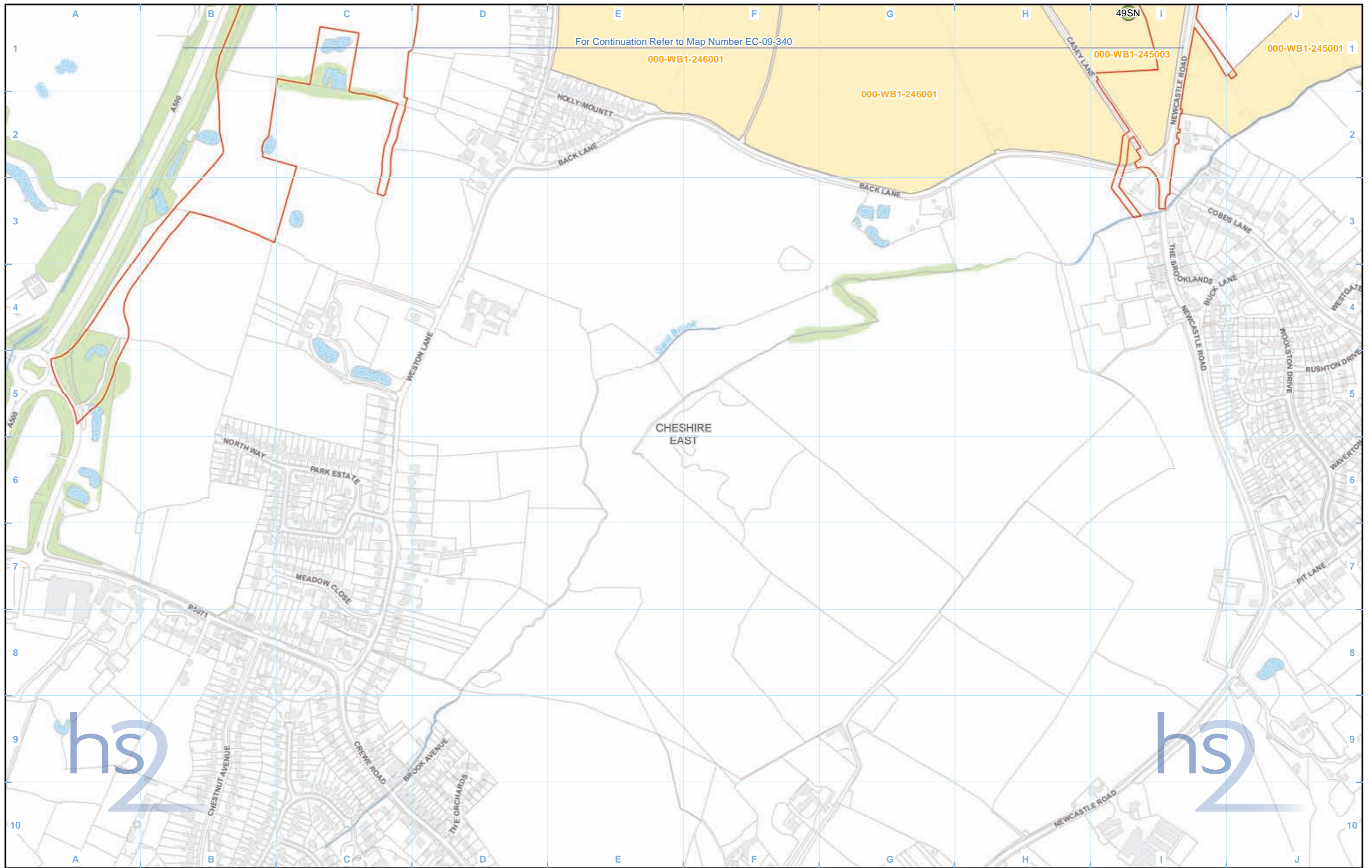
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Date: 14/06/17



For Continuation Refer to Map Number EC-09-340

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-340-L1**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 5:
South Cheshire

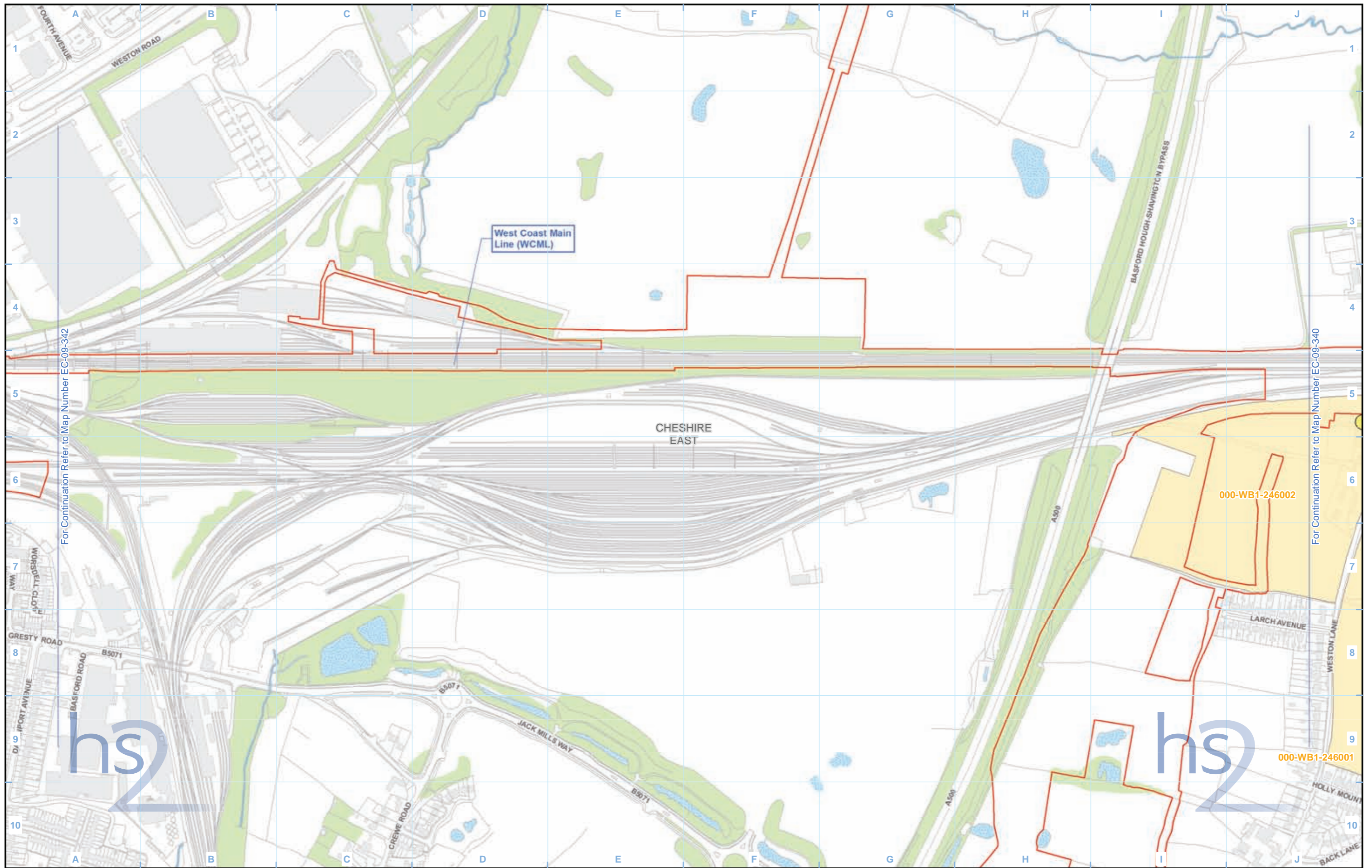
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For Continuation Refer to Map Number EC-09-342

For Continuation Refer to Map Number EC-09-340

Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary District/Borough boundary		Watercourse Water body Woodland (verified by survey)		Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		Species listed on Birds and Conservation Concern list relevant to assessment Other notable species relevant to assessment - see Volume 5 Appendices		Wintering and passage birds - survey extent	
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Map Number	EC-09-341
Map Name	Wintering and Passage Birds – Protected and Notable Species
Community Area 5: South Cheshire	

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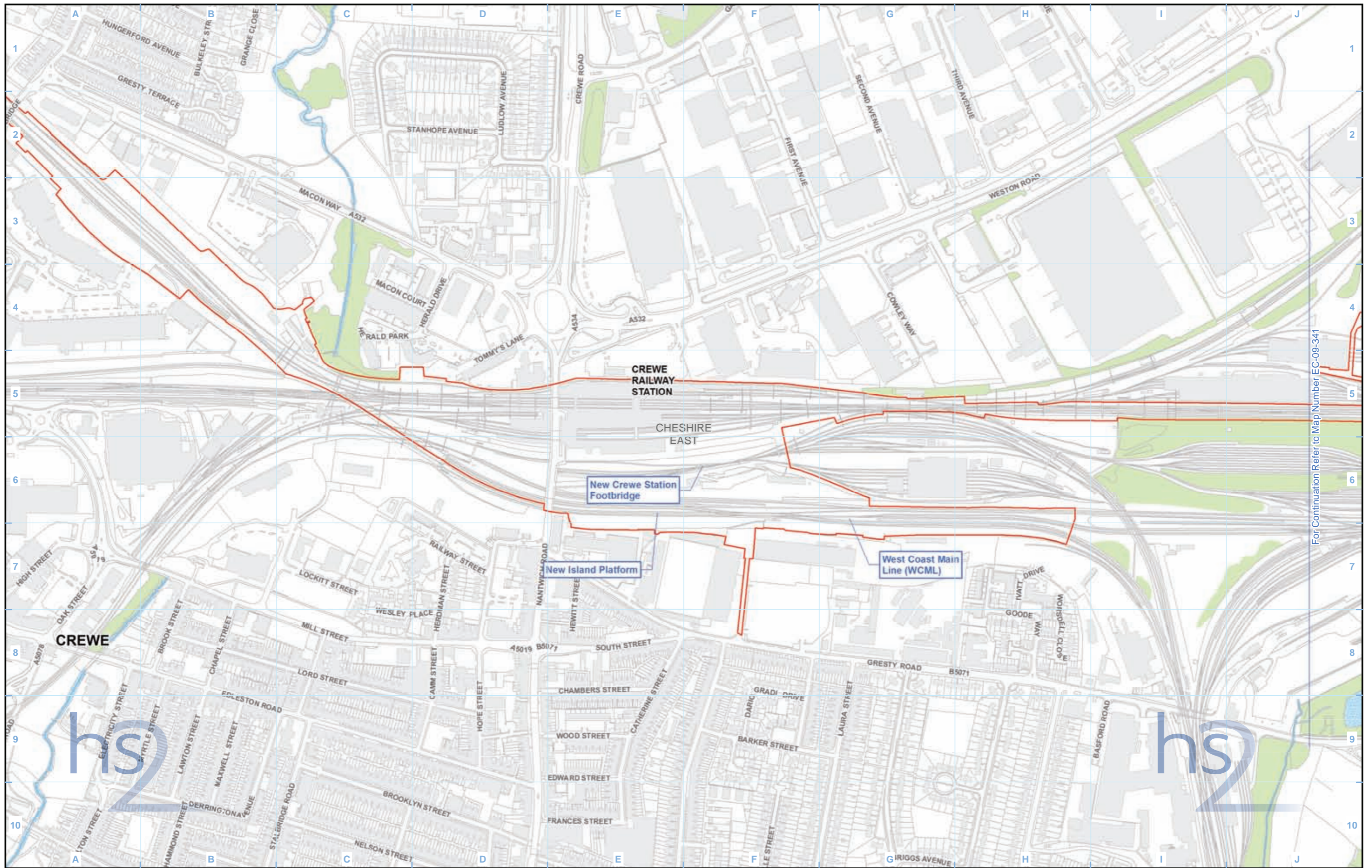
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Scale at A3: 1:5,000

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Date: 14/06/17



For Continuation Refer to Map Number EC-09-341

Legend

Route in tunnel	Watercourse	Species listed on Annex I of the Birds Directive	Species listed on Birds and Conservation Concern list relevant to assessment	Wintering and passage birds - survey extent
Route on surface	Water body	Species listed on Schedule 1 of the Wildlife and Countryside Act	Other notable species relevant to assessment - see Volume 5 Appendices	
Depot, station, headhouse or portal building	Woodland (verified by survey)	Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act		
Land potentially required during construction				
Community area boundary				
District/Borough boundary				

Map Number **EC-09-342**

Map Name **Wintering and Passage Birds – Protected and Notable Species**

Community Area 5:
South Cheshire

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