

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

Volume 5: Map Book

Traffic and transport (TR-03, TR-04, TR-08)

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

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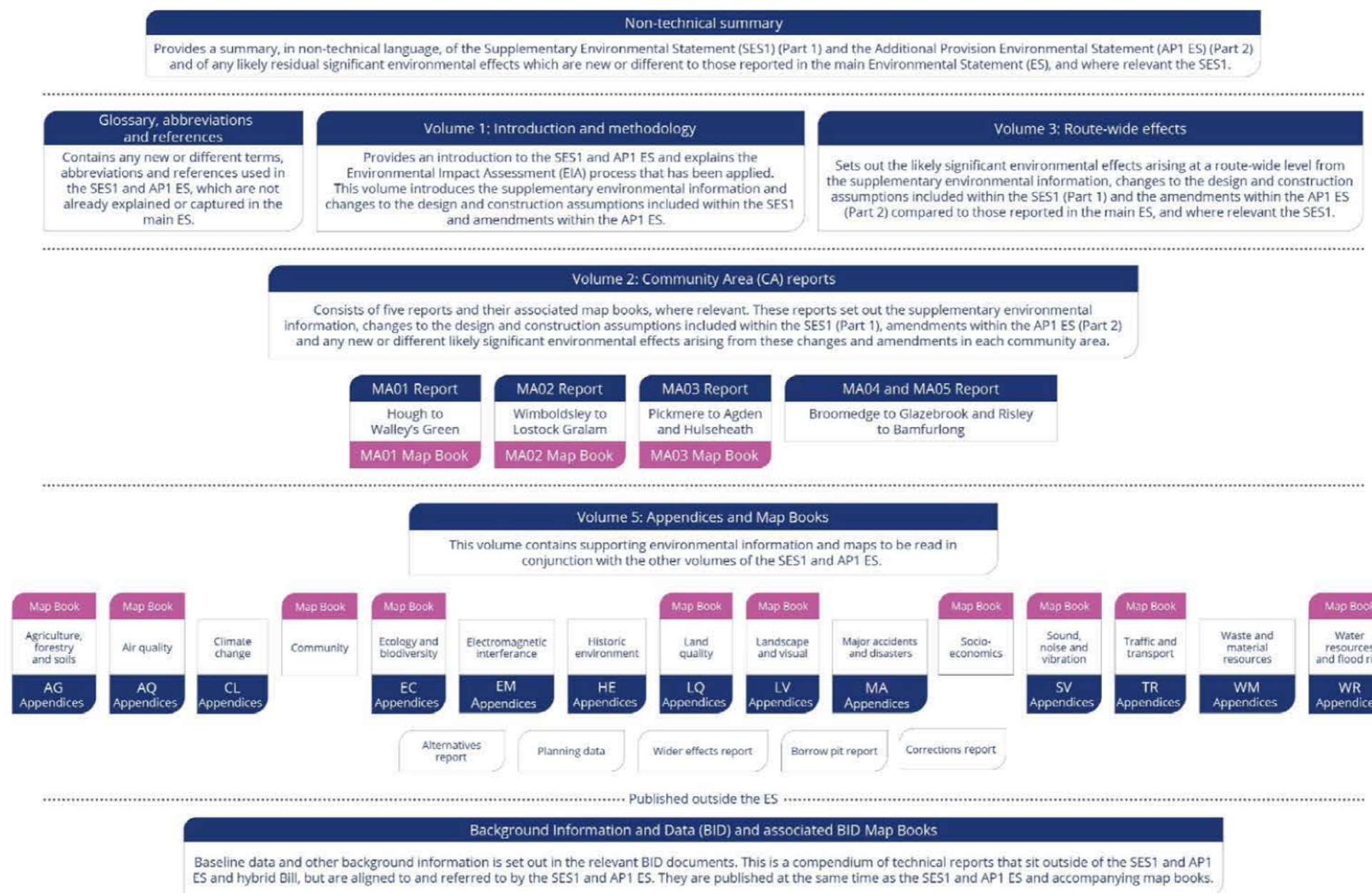
Data dictionary and definitions

Map series name	TR-03 - Construction Lorry Routes and Residual Significant Transport Effects	TR-04 - Operational Residual Significant Transport Effects	TR-08 – Construction Routes to the Strategic Network
Map series description	This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).	Identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2038 (Opening Year) and 2051 (Design Year).	This map series identifies the construction routes to the strategic network for each CA. This shows the construction and site-haul routes from each compound and the through routes for both construction and site-haul. The maps also show the locations of the construction compound.
Community Area name			
MA01 Hough to Walley's Green	✓	✓	✓
MA02 Wimboldsley to Lostock Gralam	✓	✓	✓
MA03 Pickmere to Agden and Hulseheath	✓	✓	✓
MA04 Broomedge to Glazebrook	✓		
MA05 Risley to Bamfurlong	✓		

Mapping explanatory notes

Structure of the Supplementary Environmental Statement 1 and the Additional Provision 1 Environmental Statement

This map book is part of the suite of documents that make up the Supplementary Environmental Statement 1 (SES1) and the Additional Provision 1 Environmental Statement (AP1 ES) for the High Speed Rail (Crewe – Manchester) scheme. The SES1 and the AP1 ES are separate documents; however, they are bound together and presented in a number of volumes shown in Figure 1.



Copyright statements

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

Ordnance Survey data

All maps produced as part of the SES1 and AP1 ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data. As part of our licence conditions, all digital maps carry a watermark.

Chainage

Most of the maps presented as part of the SES1 and AP1 ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XXX+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 dependent on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:20,000, 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

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

Map sheet layout

Each map in Volume 2 is presented twice, with the main ES map (In Parliament - Session 2021 - 2022) on the left-hand page and the SES1 and the AP1 ES map on the right. For the CT-05 and CT-06 map series, the SES1 and the AP1 ES is shown with different coloured hatching, annotated with labels, which highlights the areas of change. The coloured text box provides a brief description of the design change and amendment, and gives the SES1 and the AP1 ES reference number. In some instances where the effect covers a large area, a box without hatching but with a label, is shown. Only maps which have been amended as a result of the SES1 and the AP1 ES are included within the map books. Other design changes which are within the existing limits of the Bill and do not result in new or different likely significant effects are also shown on the maps, but are not indicated by hatching.

Each Volume 5 map is annotated to describe the change to a receptor or significant effect, and to give the SES1 and the AP1 ES reference number. For more detailed information about the SES1 and the AP1 ES annotation, refer to the map series legend. Only maps which have been amended as a result of the SES1 and the AP1 ES are included within the map book.

Map orientation

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

The exception to this, are map series LV-00, LV-02, LV-07 and LV-08, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and Manchester to the top.

Further details on the approach to mapping is set out in Section 6 of Volume 1 of the SES1 and AP1 ES.

Map books

In total, there are 14 map books included in the SES1 and AP1 ES Volume 2 and Volume 5. A list of the map book titles and map series is provided below for reference.

Map book title (map series)	Name
Volume 2: Map book – MA01: Hough to Walley's Green (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map book – Land quality (LQ-01)
Volume 2: Map book – MA02: Wimboldsley to Lostock Gralam (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map book – Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – MA03: Pickmere to Agden and Hulseheath (CT-05, CT-06, CT-10, LV-01, LV-03, LV-04, SV-05)	Volume 5: Map book – Planning Data/Committed Development (CT-13)
Volume 5: Map book – Agriculture (AG-01, AG-04)	Volume 5: Map book – Socio-economics (SE-01)
Volume 5: Map book – Air quality (AQ-01)	Volume 5: Map book – Sound, noise and vibration (SV-02, SV-03, SV-08, SV-09)
Volume 5: Map book – Community (CM-01)	Volume 5: Map book – Traffic and transport (TR-03, TR-04, TR-08)
Volume 5: Map book – Ecology and biodiversity (EC-01)	Volume 5: Map book – Water resources and flood risk (WR-02)

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
Community area boundary	The Environmental Statement has been split into sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2019.
Compound traffic routes	Public highways which may be used for HGV construction traffic to construction compounds.	High Speed Two (HS2) Ltd	
Construction compounds	A strategic construction hub for core project management (engineering, planning and construction delivery), commercial and administrative staff associated with the construction of the Proposed Scheme. These compounds will include an area for equipment and materials storage, as well as providing main welfare facilities for construction staff, with some compounds also providing overnight sleeping accommodation for construction staff.	High Speed Two (HS2) Ltd	
Construction significant effects	Adverse – deterioration in existing conditions as a result of the Proposed Scheme Beneficial – improvement of existing conditions as a result of the Proposed Scheme Permanent – permanent change as a result of the Proposed Scheme Temporary – temporary change as a result of the Proposed Scheme (likely within construction phase of scheme).	High Speed Two (HS2) Ltd	
Construction traffic routes	Public highways which may be used for HGV construction traffic.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.
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	0
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 2021.
HS2 route	Represents the proposed route of HS2.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
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	
Movement of excavated material	Public highways which may be used for HGV movements of excavated material to construction compounds.	High Speed Two (HS2) Ltd	
Onward construction routes	Directional symbol that indicates the construction routes continuing along the Strategic Road Network.	High Speed Two (HS2) Ltd	
Operational significant effects	Adverse- deterioration in existing conditions as a result of the Proposed Scheme Beneficial - improvement of existing conditions as a result of the Proposed Scheme Permanent - permanent change as a result of the Proposed Scheme, effects can be for 2027, 2041 or both operational assessment years. Temporary - temporary change as a result of the Proposed Scheme.	High Speed Two (HS2) Ltd	
Route in tunnel	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Site haul to compound	Construction traffic access or movement of excavated materials that may use the site haul road, usually from public highway to construction compound.	High Speed Two (HS2) Ltd	
Through construction traffic routes	Compound traffic routes from neighbouring CAs that may use the public highways within the represented CA.	High Speed Two (HS2) Ltd	
Through site haul to compound	Construction traffic access or movement of excavated materials from neighbouring CAs that may use site haul roads within the represented CA.	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 2021.
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.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.

Legend features	Definition	Source	Copyright
Woodland	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2021.

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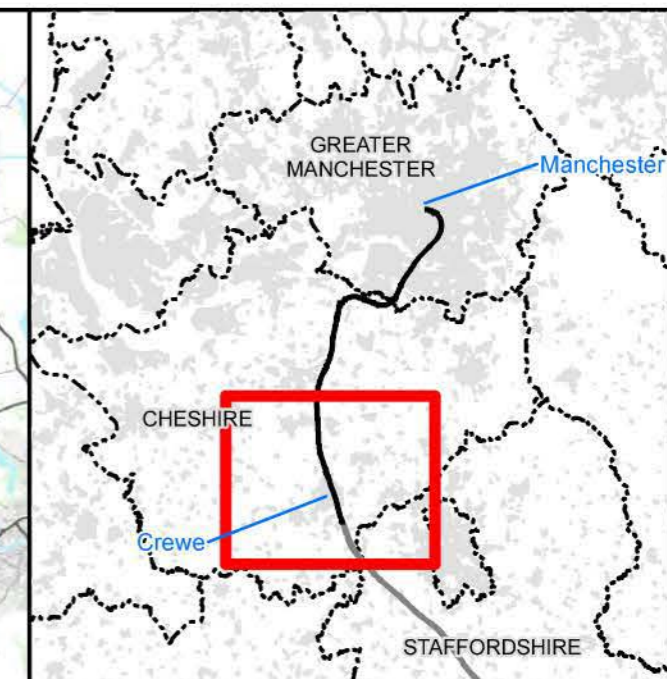
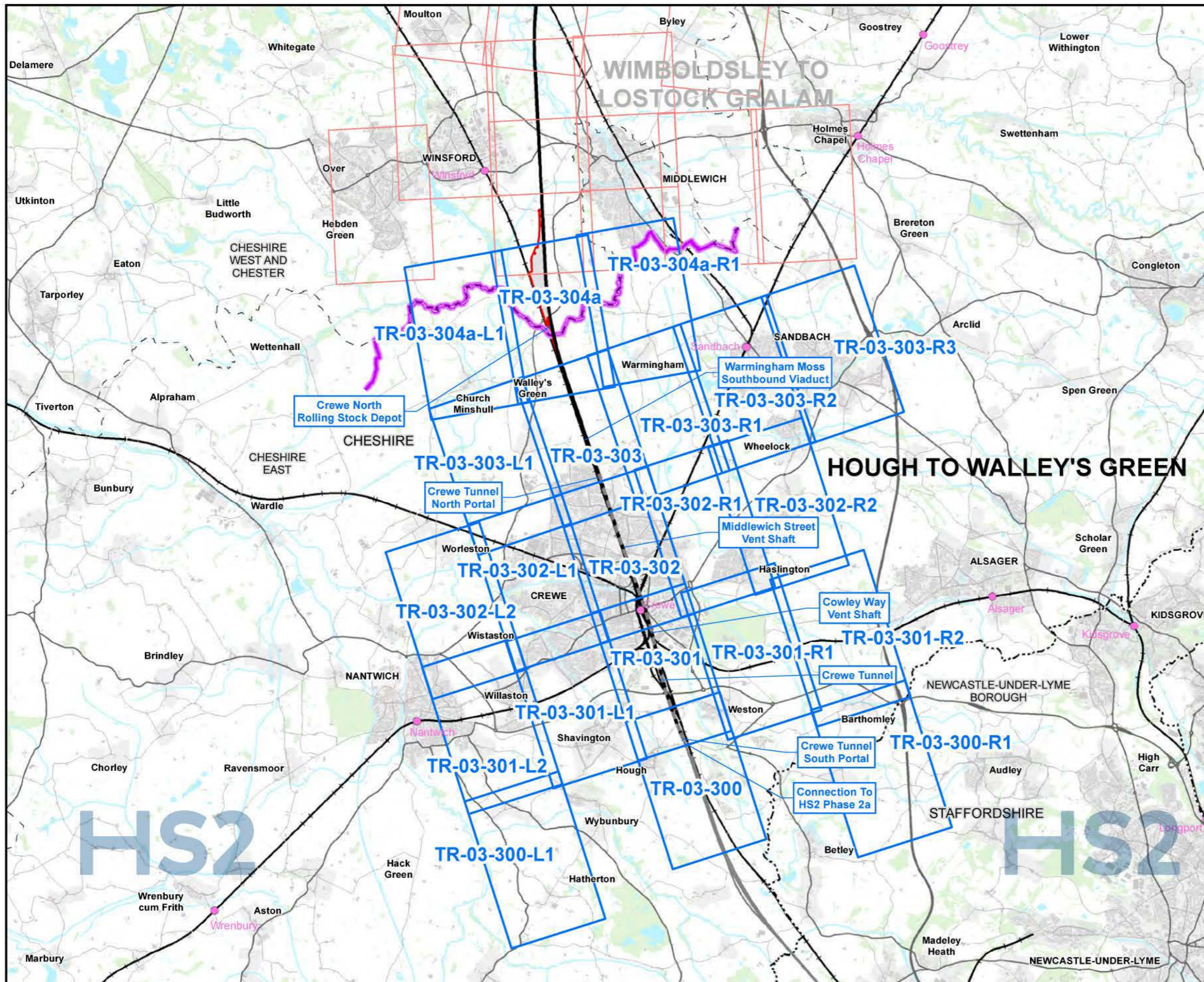
Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

MA01: Hough to Walley's Green

TR-03 – Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

TR-04 – Significant Residual Transport Effects Arising from Operation

TR-08 – Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

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 included in this community area with no amendment
- Map sheets not included in this community area

Map Number: TR-03-INDEX-MA01

Map Name: Index Map of:
Significant Residual Transport Effects Arising during
Construction and Construction Traffic Routes
SES1 and AP1 ES

Community Area MA01:
Hough to Walley's Green

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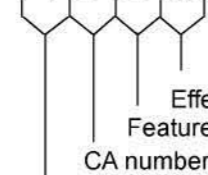
Doc Number: 2PT24-MWJ-EV-MAP-M000-002178-P01

Date: 26/04/22

Significant effect label:

Significant effect reference:

PT01-01-Mi



Operational effect identifier

Effect level
Feature number

CA number

Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

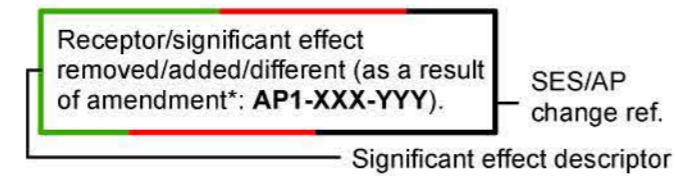
- Mi - Minor
- Mo - Moderate
- Ma - Major

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number TR-03 - Legend

Map Name
TR-03 - Significant Residual
Transport Effects Arising
during Construction and
Construction Traffic Routes -
SES1 and AP1 ES

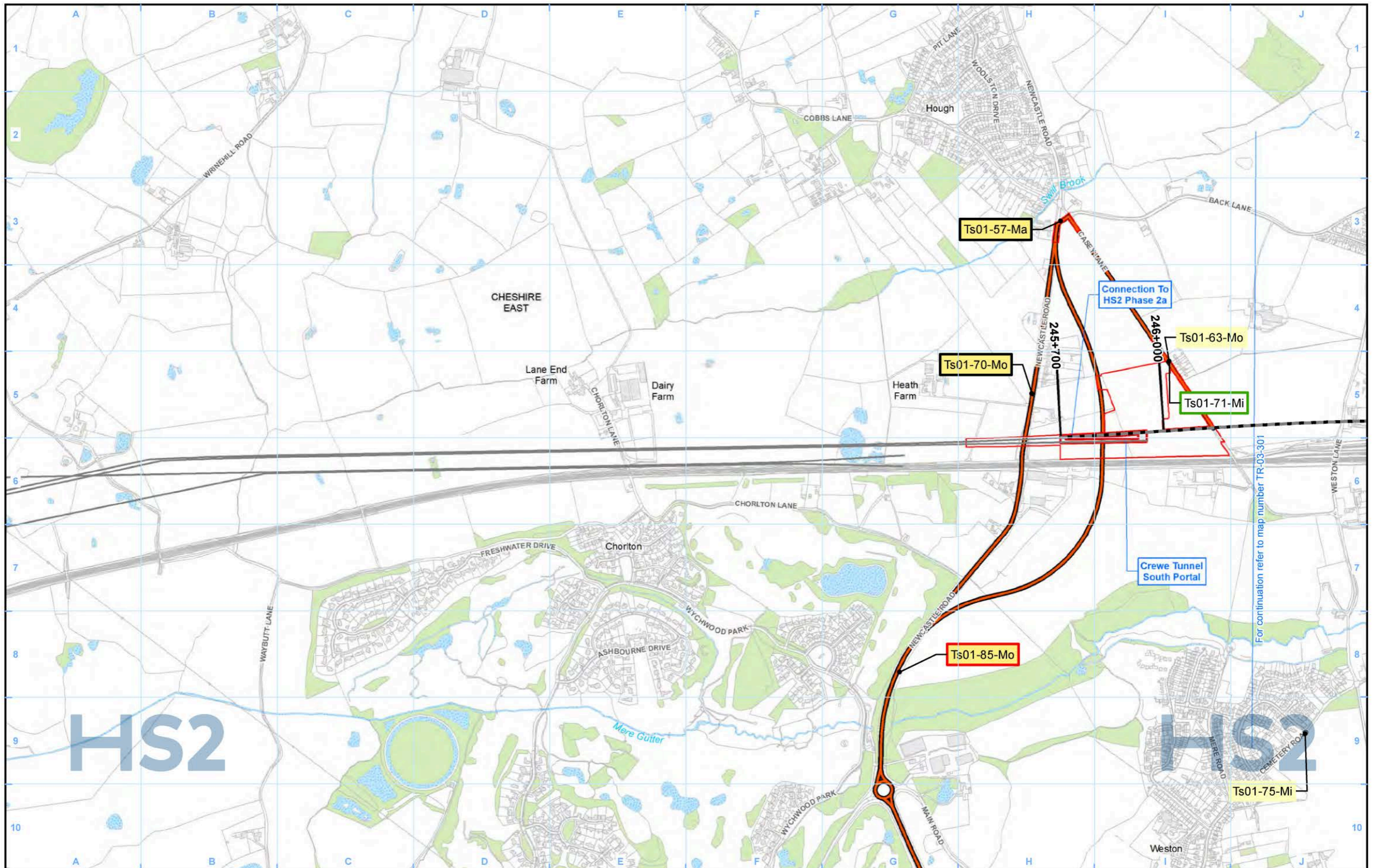


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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-300

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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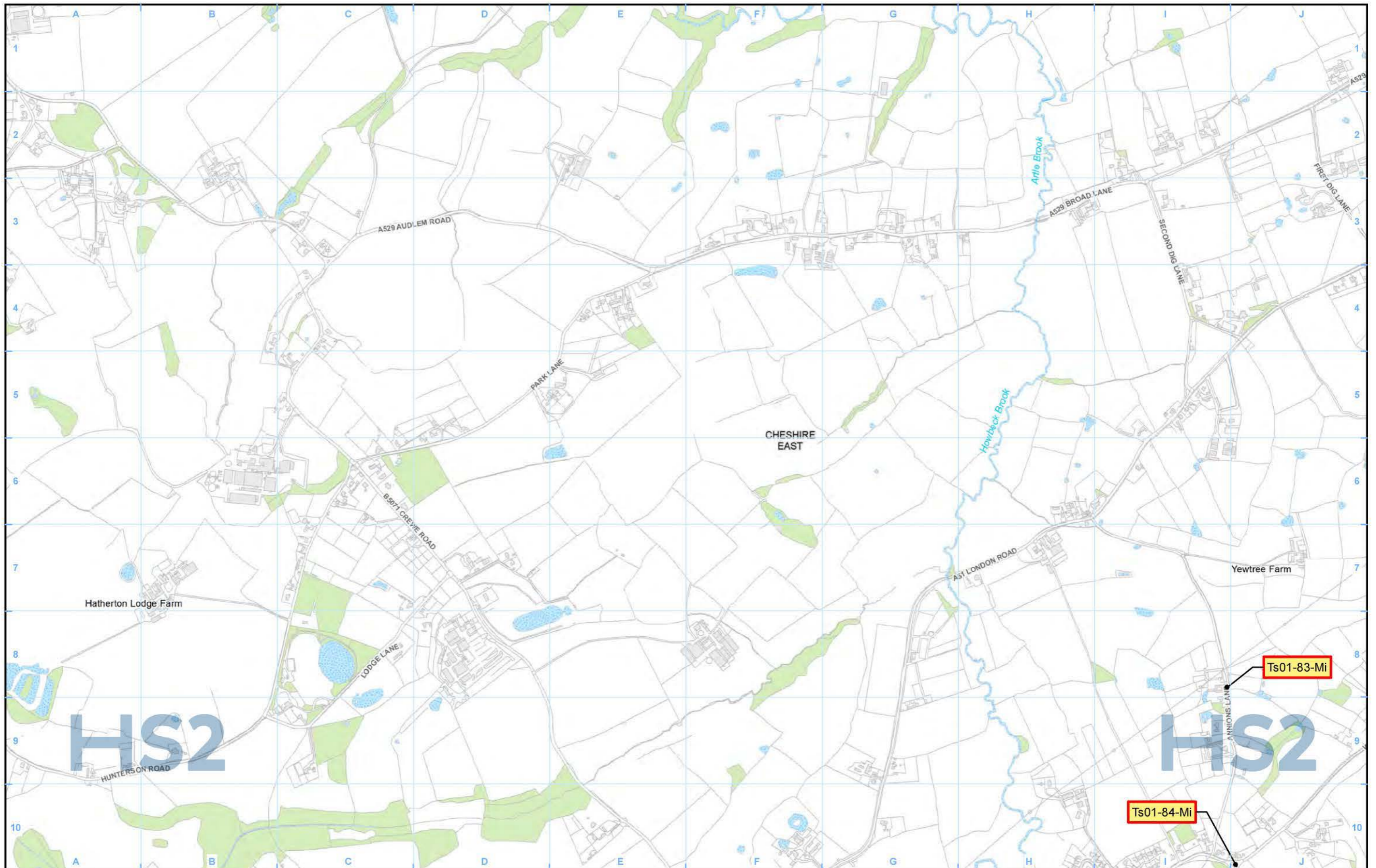
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Date: 26/04/22

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For continuation refer to map number TR-03-301



- 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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP: Adverse, permanent
- Construction significant effects unchanged from the SES/AP: Adverse, temporary
- Construction significant effects unchanged from the SES/AP: Beneficial, temporary
- Construction significant effects unchanged from the SES/AP: Beneficial, permanent

- Construction significant effects arising from the SES/AP: Adverse, permanent
- Construction significant effects arising from the SES/AP: Adverse, temporary
- Construction significant effects arising from the SES/AP: Beneficial, temporary
- Construction significant effects arising from the SES/AP: Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-300-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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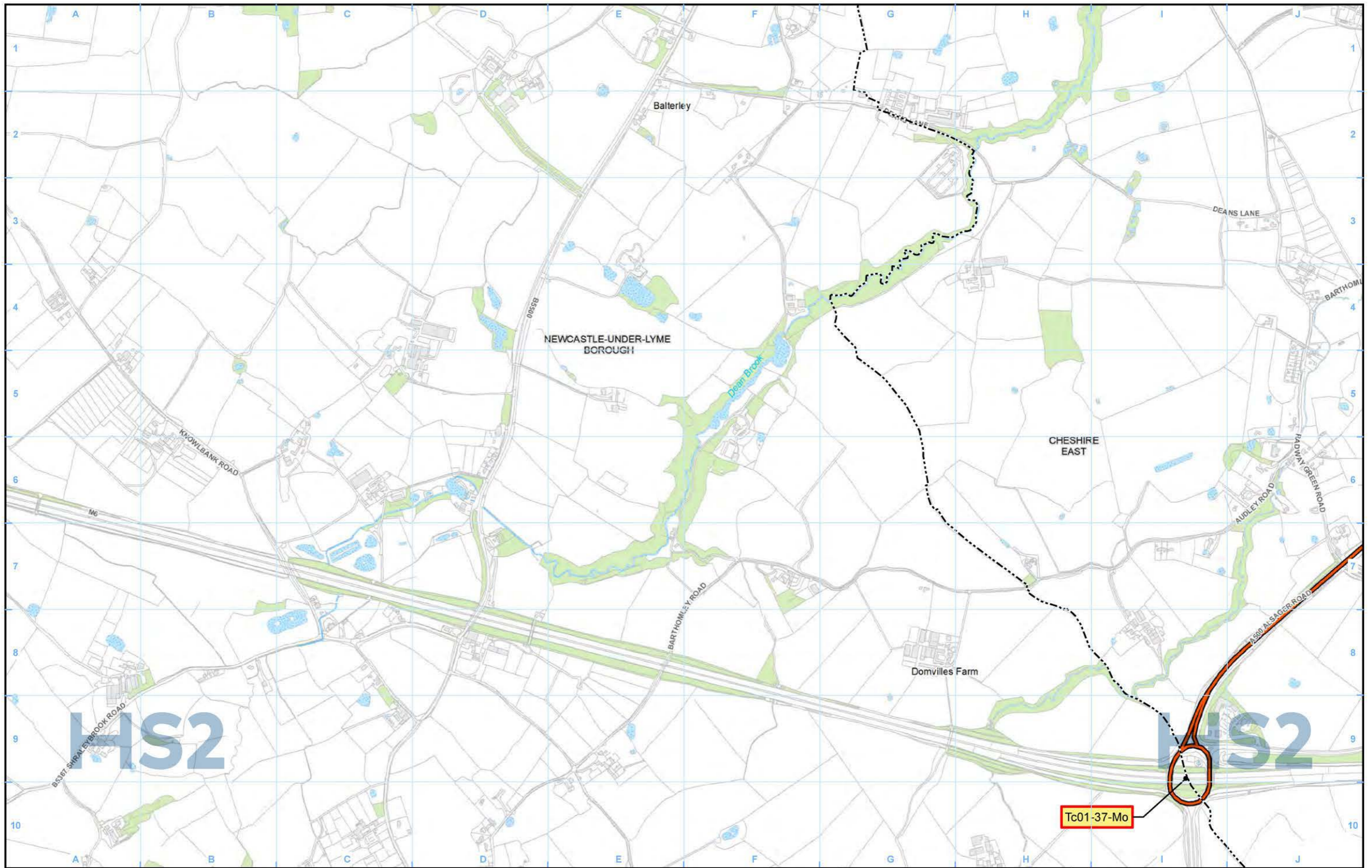
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Metres

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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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-300-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

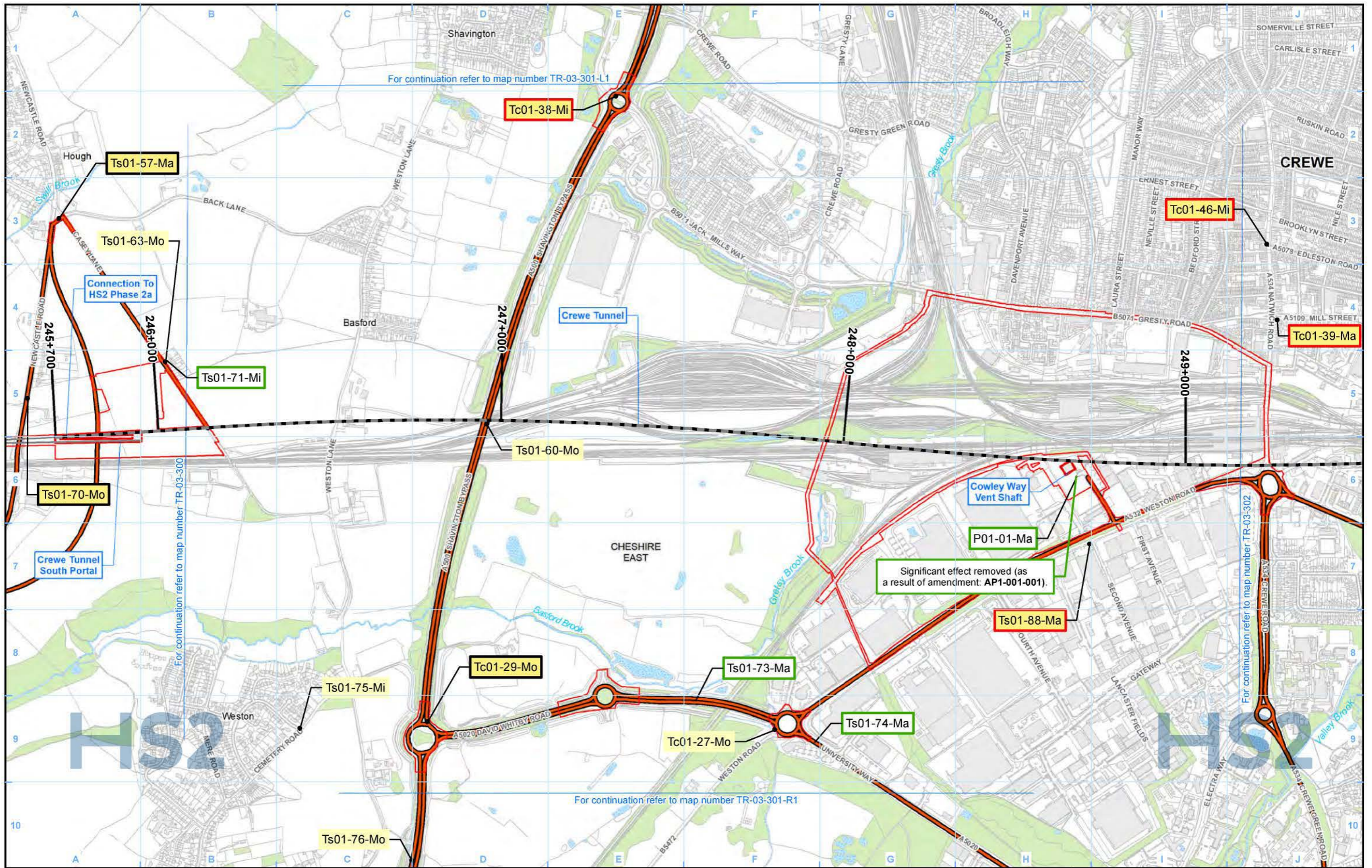
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Legend

Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:

For full legend please refer to TR-03 legend page.

Map Number	TR-03-301
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA01: Hough to Walley's Green	

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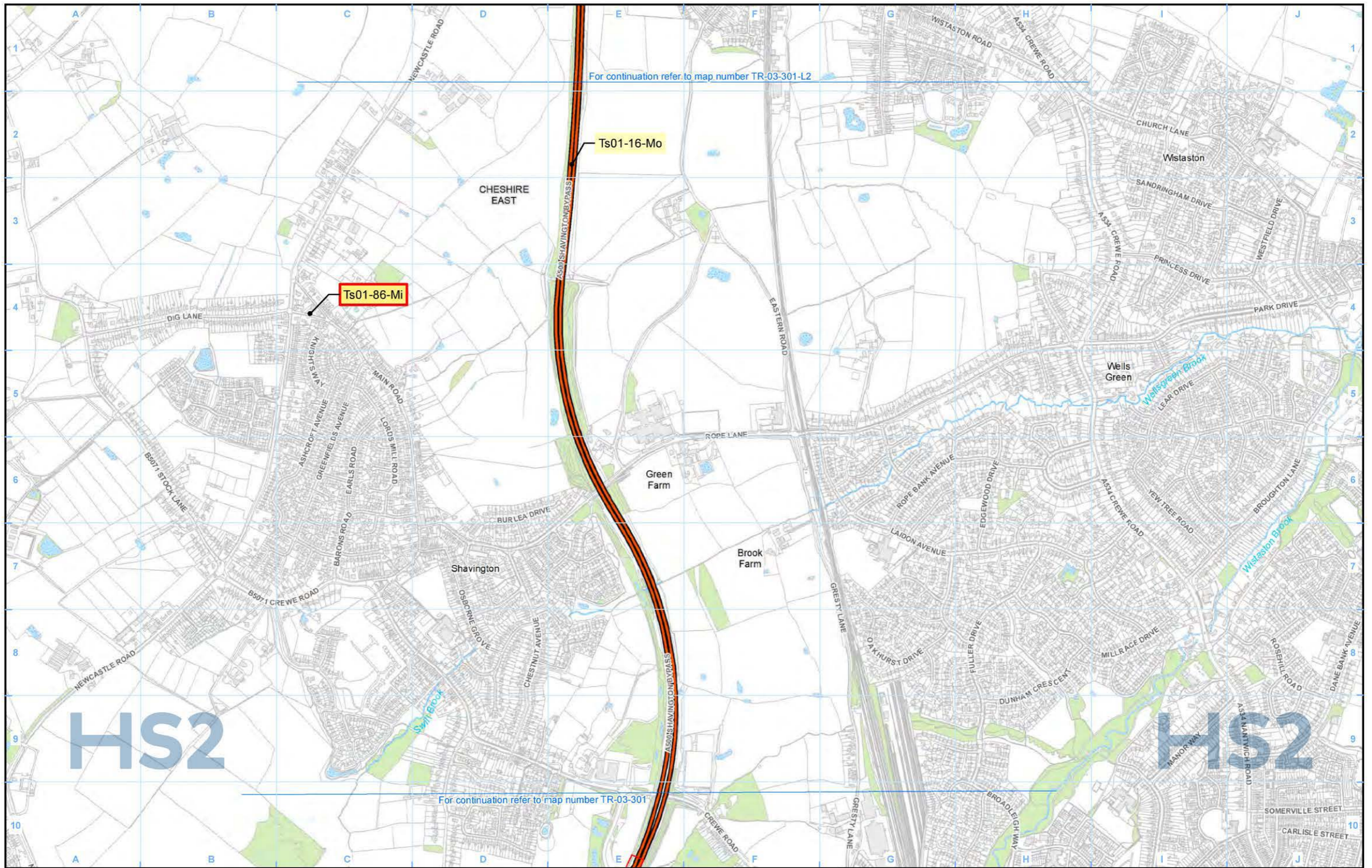
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For continuation refer to map number TR-03-301-L1

For continuation refer to map number TR-03-300

For continuation refer to map number TR-03-301-R1

For continuation refer to map number TR-03-302



For continuation refer to map number TR-03-301-L2

For continuation refer to map number TR-03-301

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-301-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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For continuation refer to map number TR-03-301-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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-301-L2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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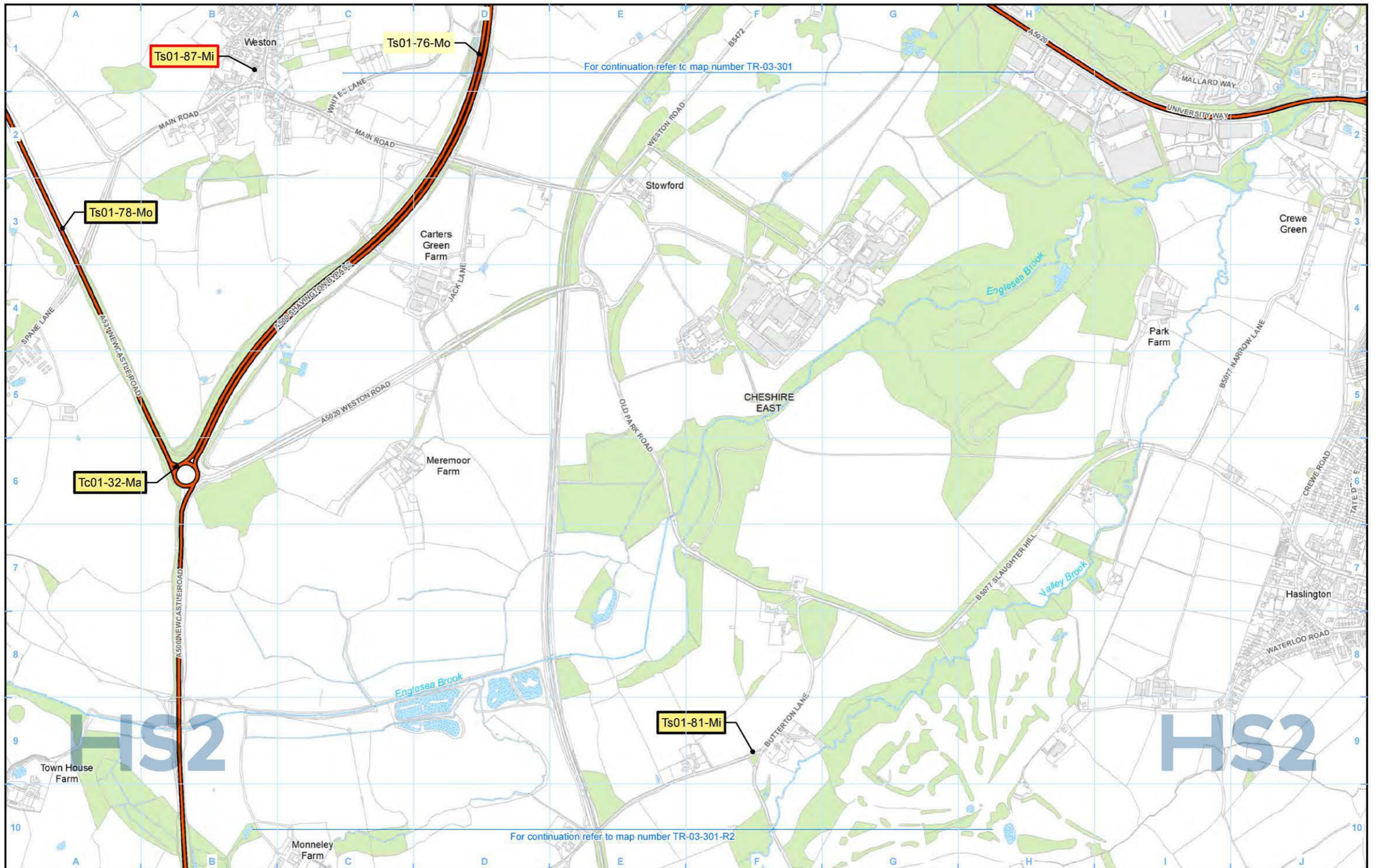
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For continuation refer to map number TR-03-301

For continuation refer to map number TR-03-301-R2

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-301-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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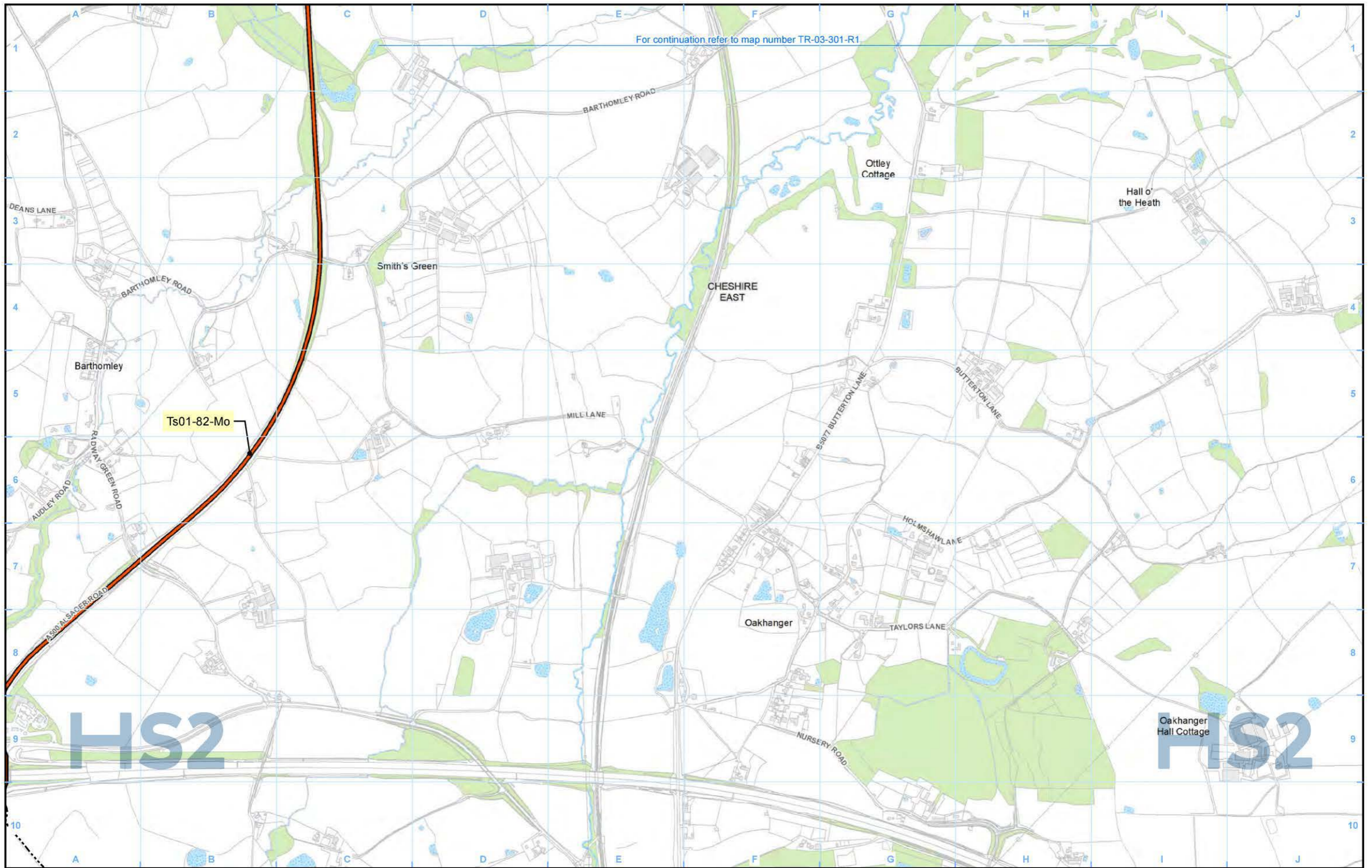
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Date: 26/04/22

Scale at A3: 1:10,000

Metres

For continuation refer to map number TR-03-301-R1



- 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
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- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-301-R2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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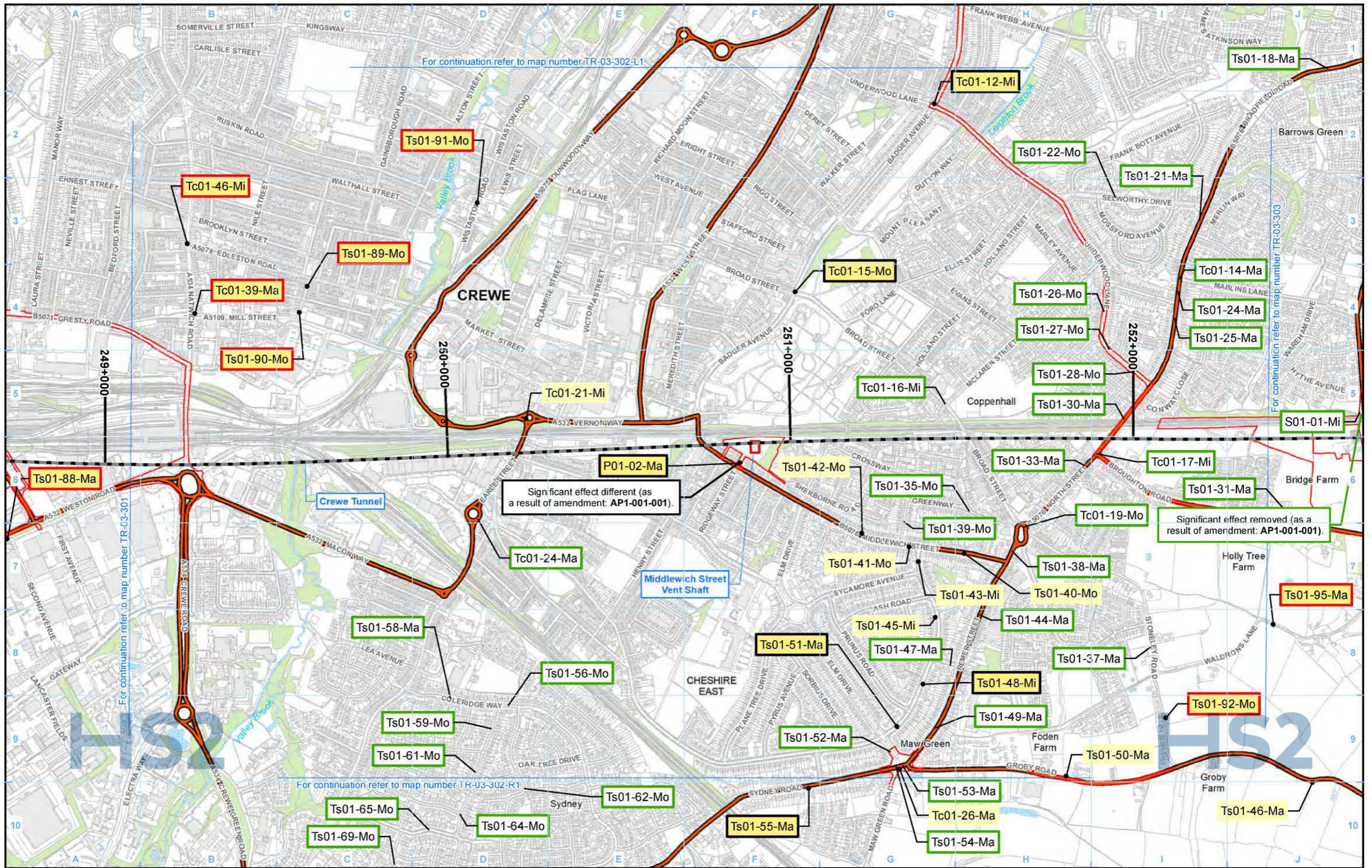
Date: 26/04/22

Scale at A3: 1:10,000

Oakhanger Hall Cottage

HS2

HS2



For continuation refer to map number TR-03-302-L1

For continuation refer to map number TR-03-303

For continuation refer to map number TR-03-301

For continuation refer to map number TR-03-302-R1

- 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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-302

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

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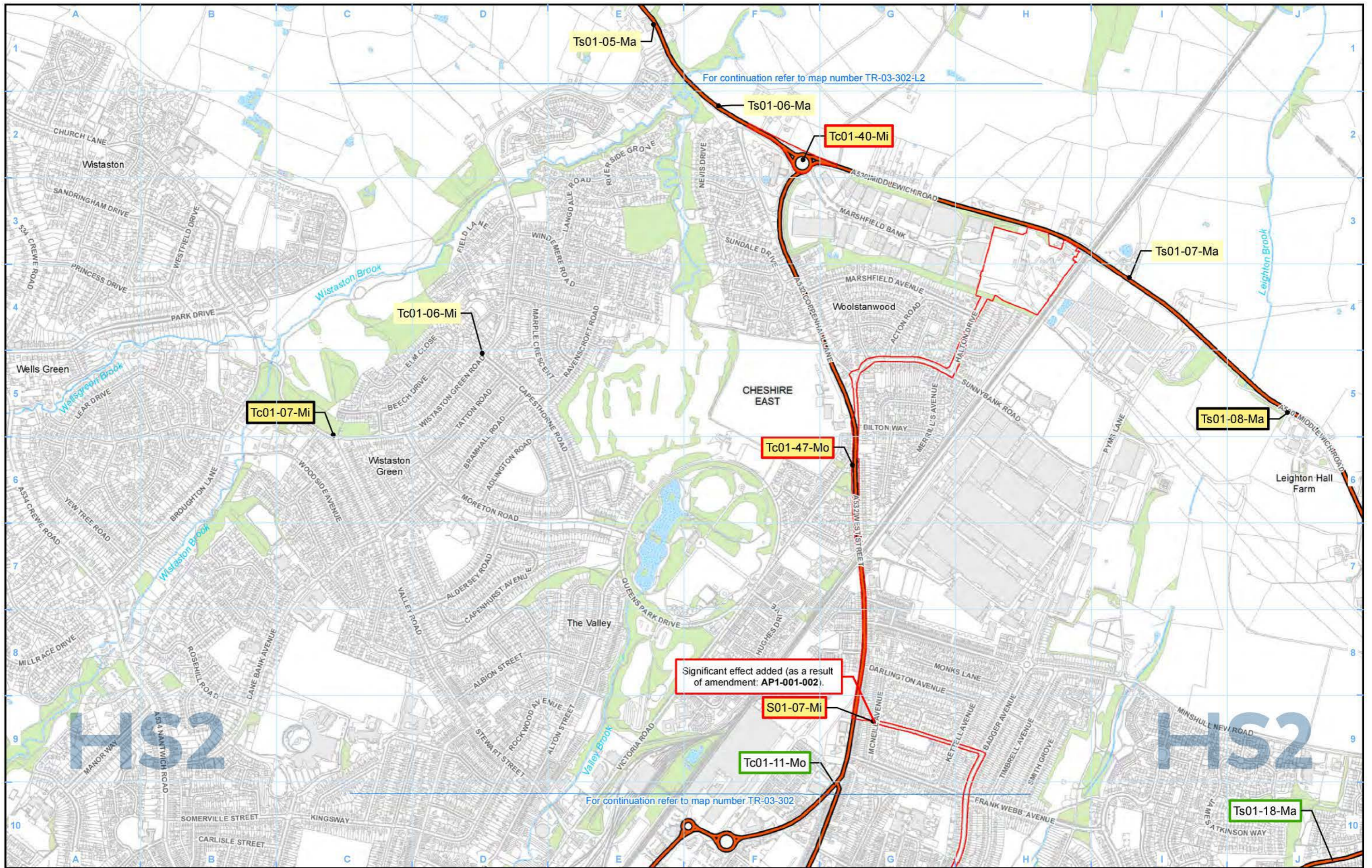
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For continuation refer to map number TR-03-302-L2

For continuation refer to map number TR-03-302

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-302-L1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA01: Hough to Walley's Green

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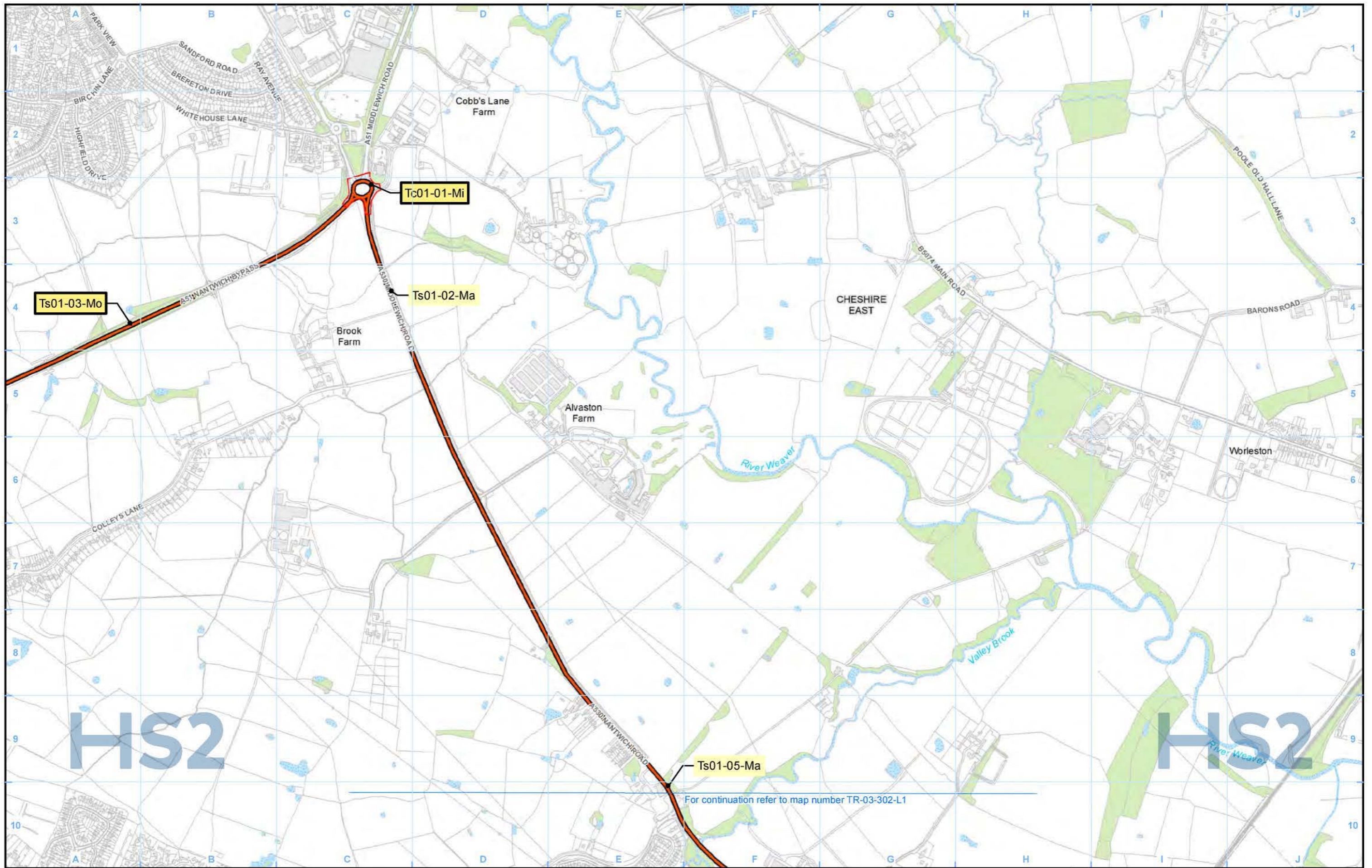
Doc Number: 2PT24-MWJ-EV-MAP-M000-002725-P01

Date: 26/04/22

Scale at A3: 1:10,000

Metres

Significant effect added (as a result of amendment: AP1-001-002).



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 County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Construction traffic routes 	<p>Construction significant effects unchanged from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>Construction significant effects arising from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>For full legend please refer to TR-03 legend page.</p>
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Map Number: TR-03-302-L2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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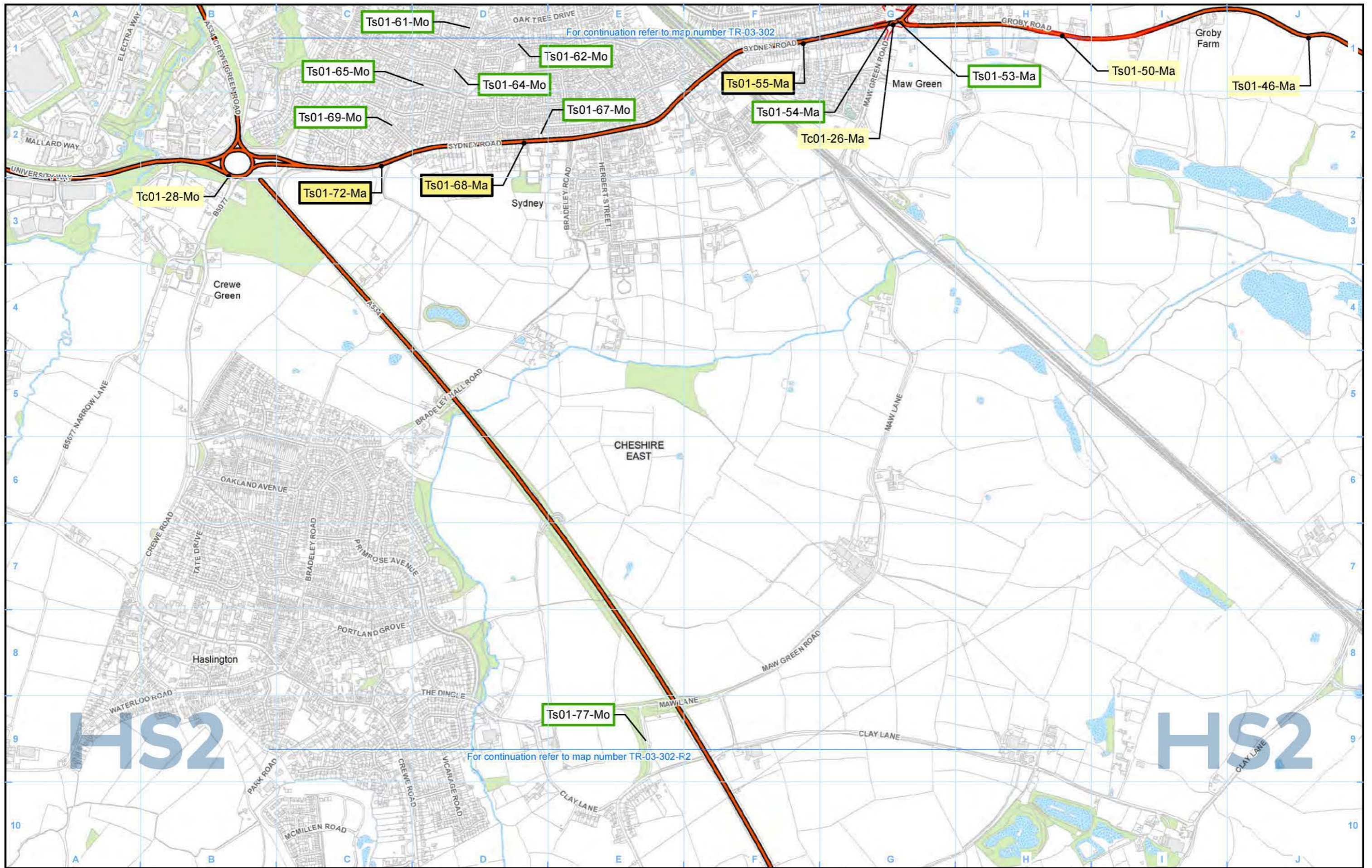
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002726-P01

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Metres



For continuation refer to map number TR-03-302

For continuation refer to map number TR-03-302-R2

- 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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-302-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

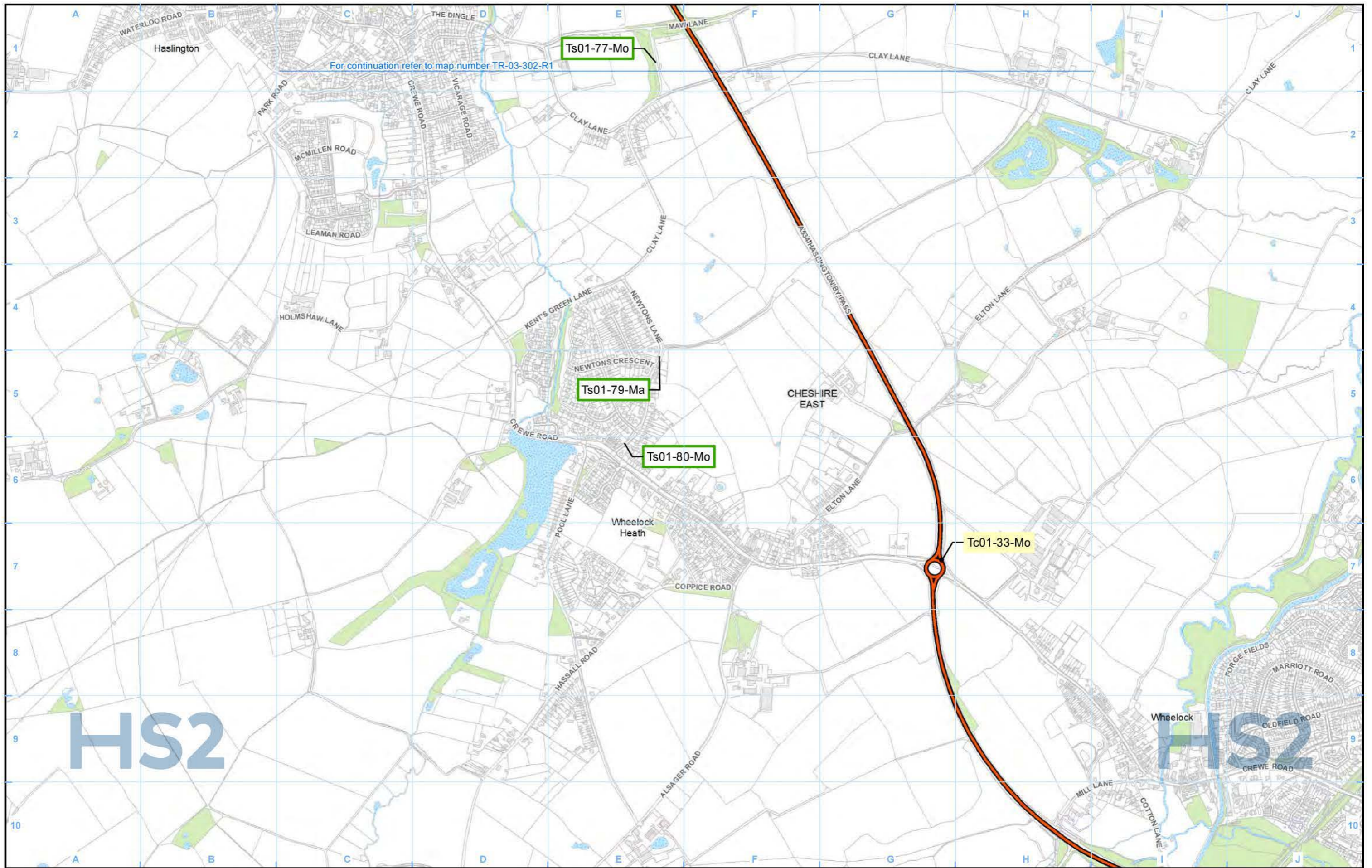
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Date: 26/04/22



For continuation refer to map number TR-03-302-R1

Ts01-77-Mo

Ts01-79-Ma

Ts01-80-Mo

Tc01-33-Mo

HS2

HS2

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-302-R2
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA01: Hough to Walley's Green

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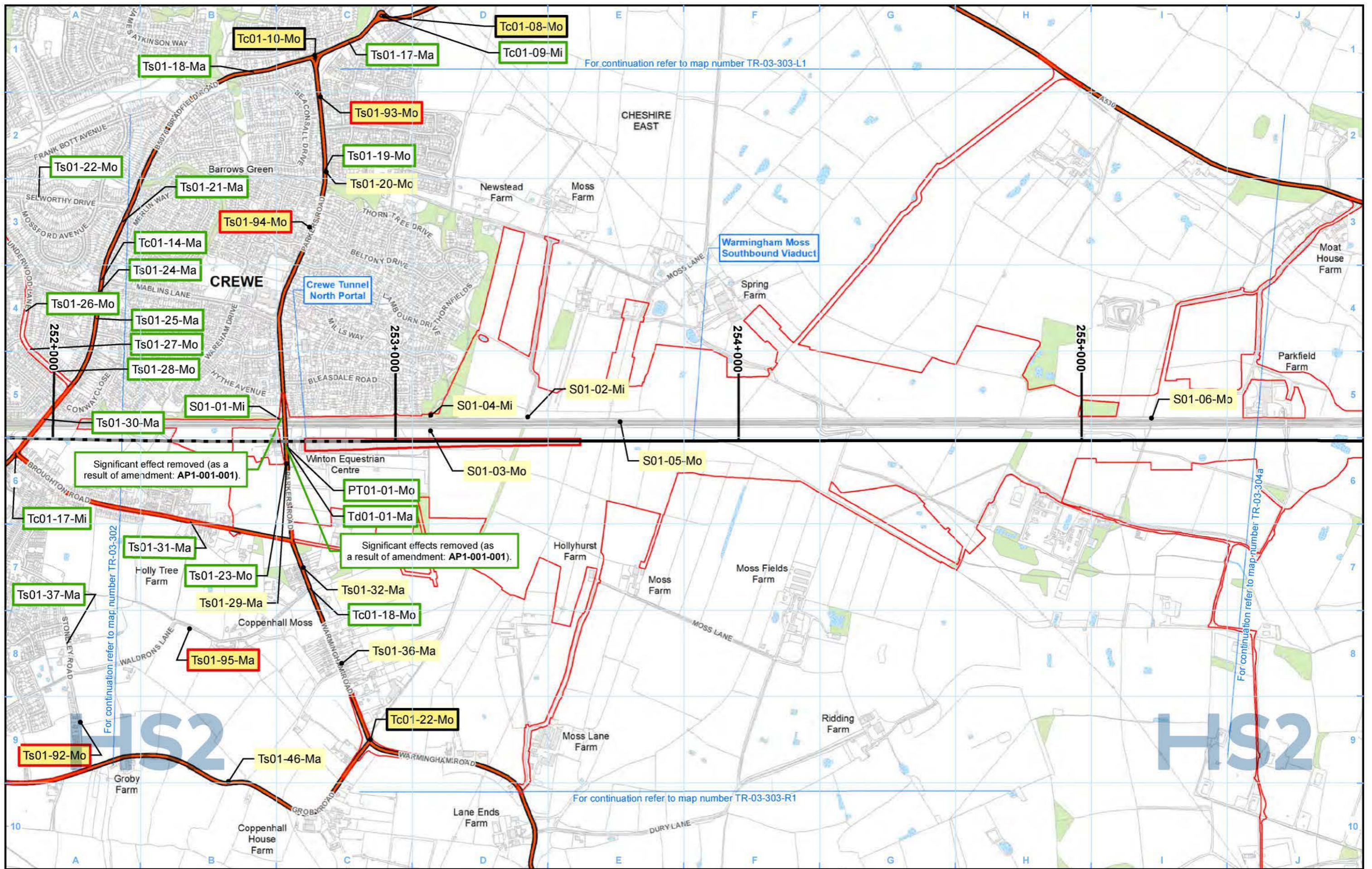
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Metres

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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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-303

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

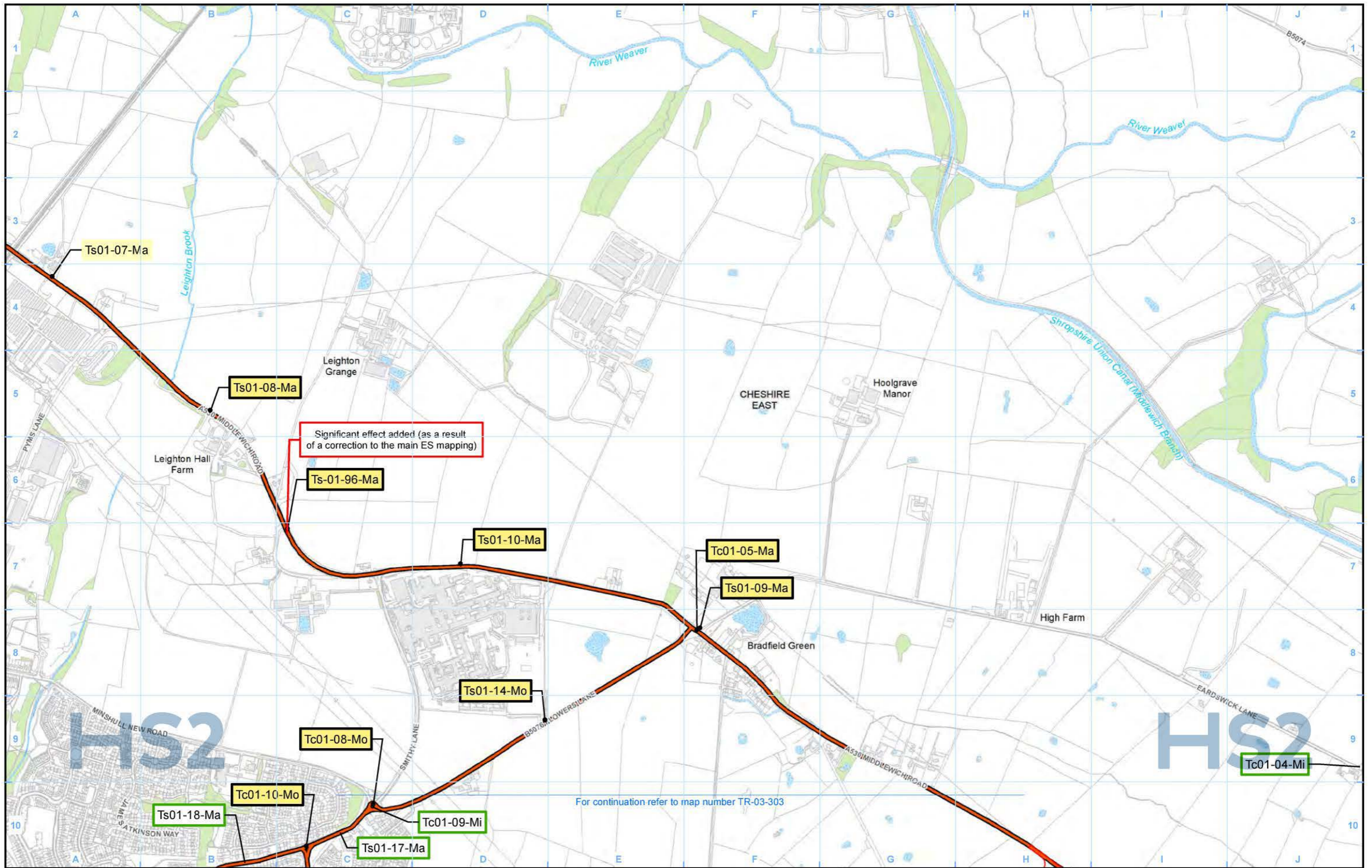
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Legend

<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 County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Construction traffic routes 	<p>Construction significant effects unchanged from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>Construction significant effects arising from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>For full legend please refer to TR-03 legend page.</p>
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Map Number: TR-03-303-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

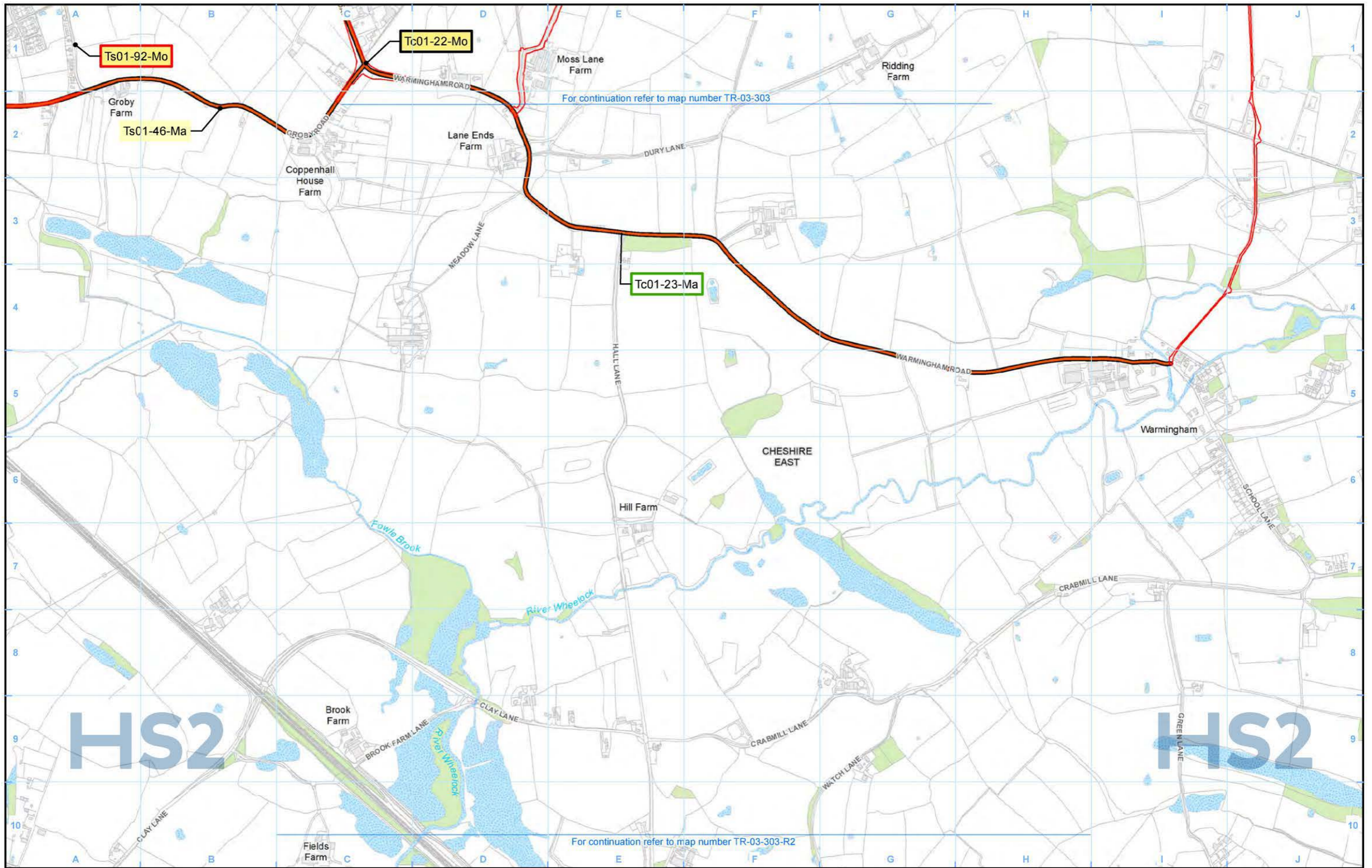
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002727-P01

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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
- Construction traffic routes

Construction significant effects unchanged from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

Construction significant effects arising from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-303-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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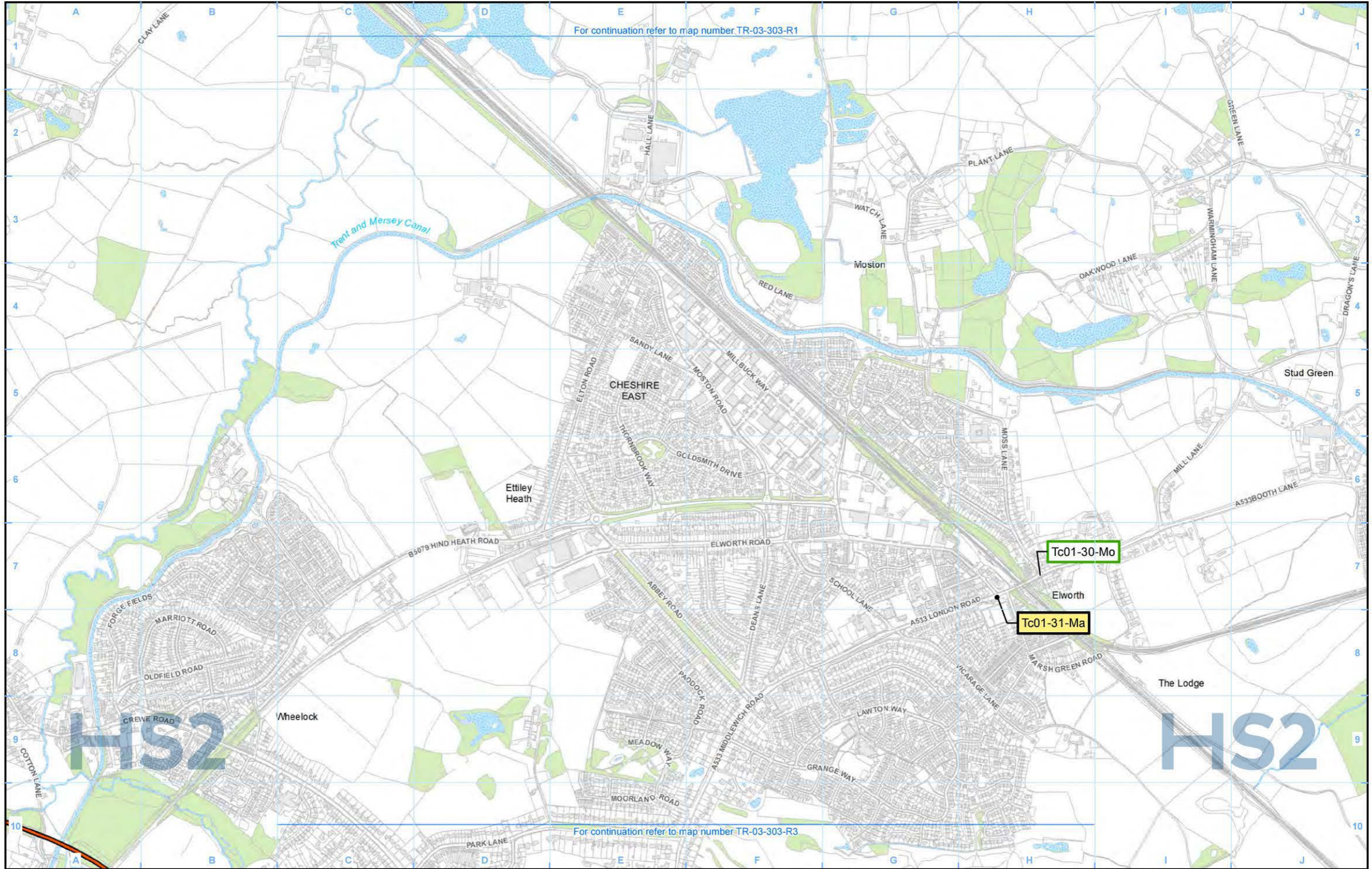
Scale at A3: 1:10,000

Metres

Date: 26/04/22

For continuation refer to map number TR-03-303-R1

For continuation refer to map number TR-03-303-R3



- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-303-R2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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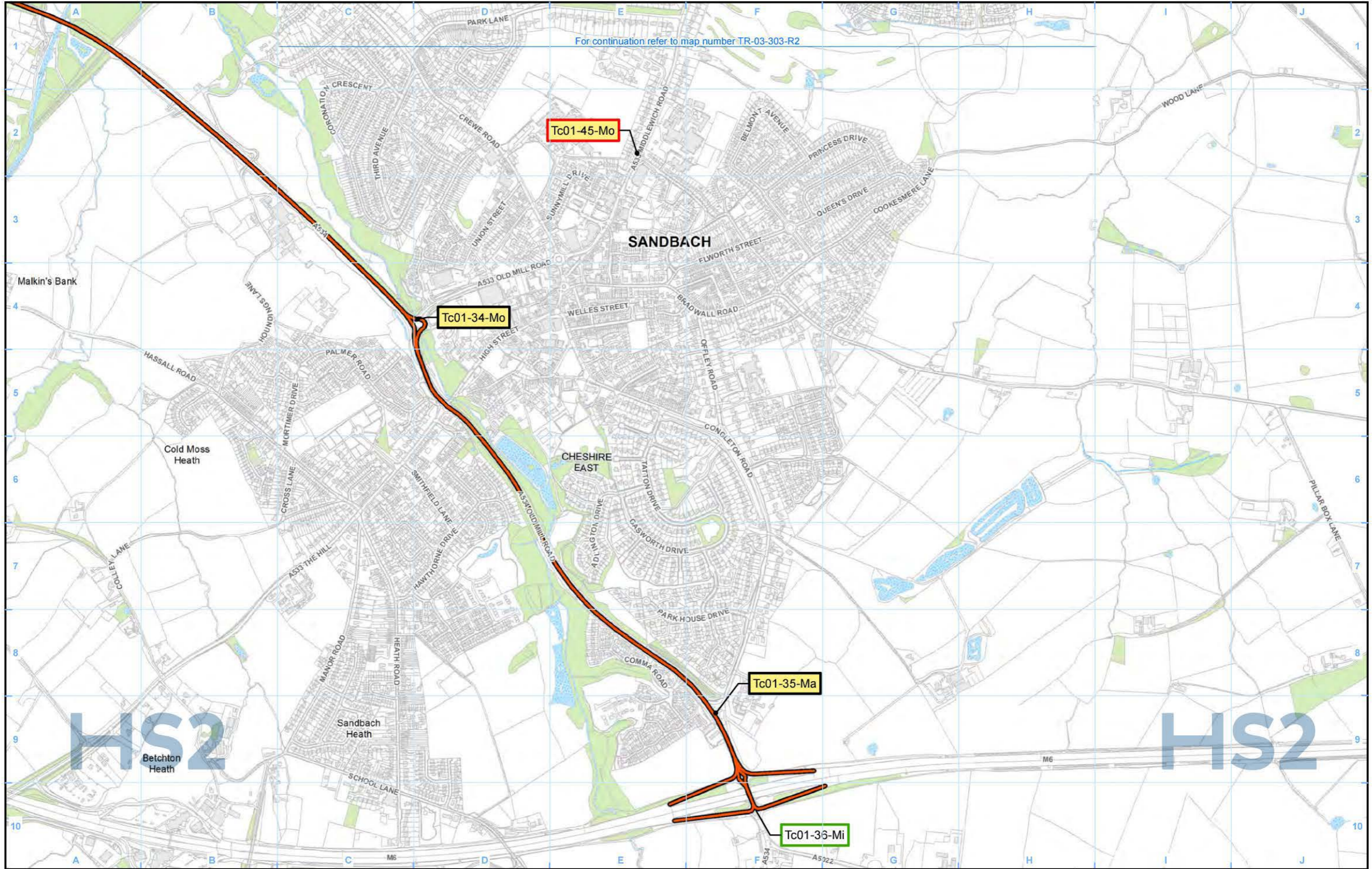
Doc Number: 2PT24-MWJ-EV-MAP-M000-003709-P01

Date: 26/04/22

Scale at A3: 1:10,000

Metres

For continuation refer to map number TR-03-303-R2



Legend

		Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:

For full legend please refer to TR-03 legend page.

Map Number	TR-03-303-R3
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area	Community Area MA01: Hough to Walley's Green

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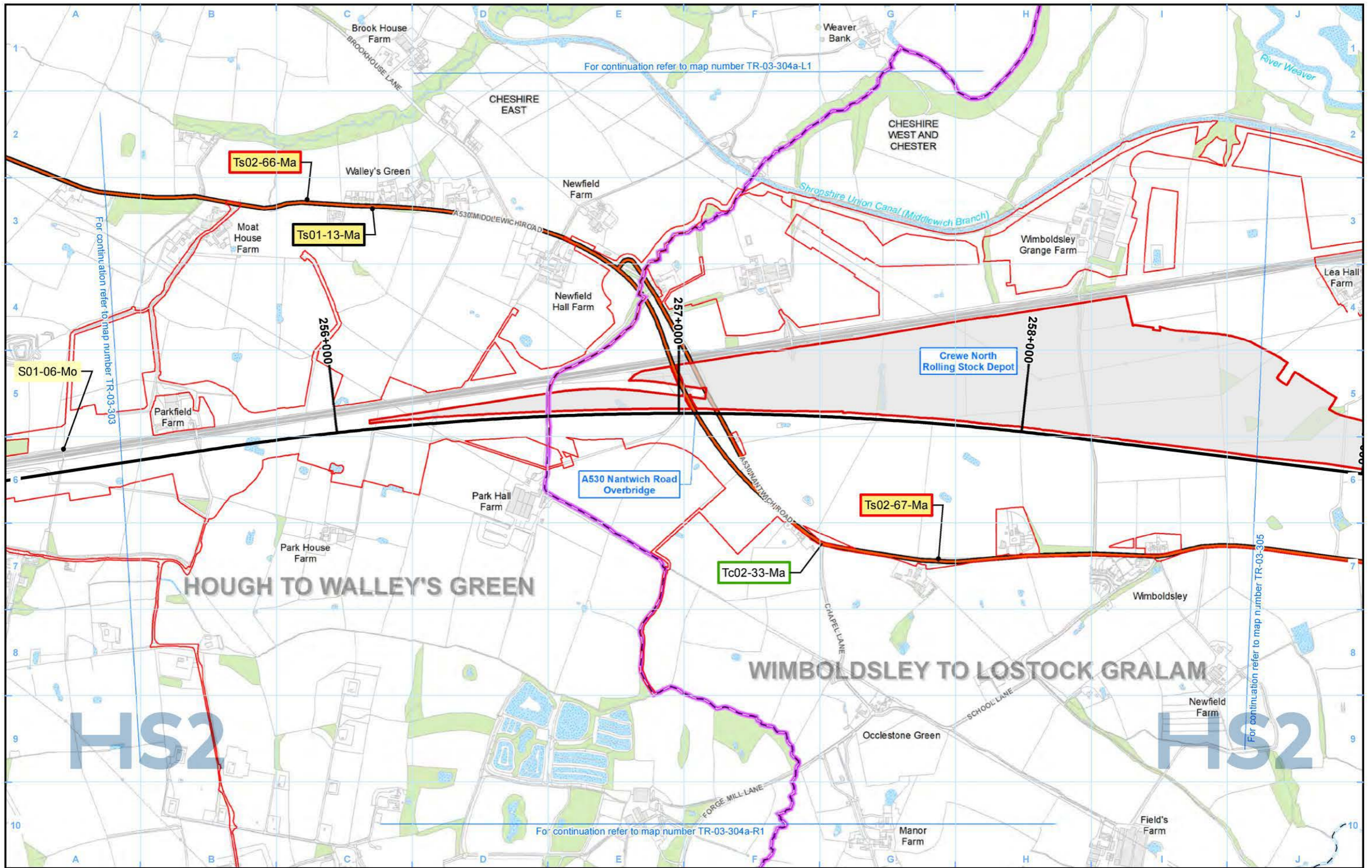
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Date: 26/04/22

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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 County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Construction traffic routes 	<p>Construction significant effects unchanged from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>Construction significant effects arising from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>For full legend please refer to TR-03 legend page.</p>
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Map Number: TR-03-304a

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

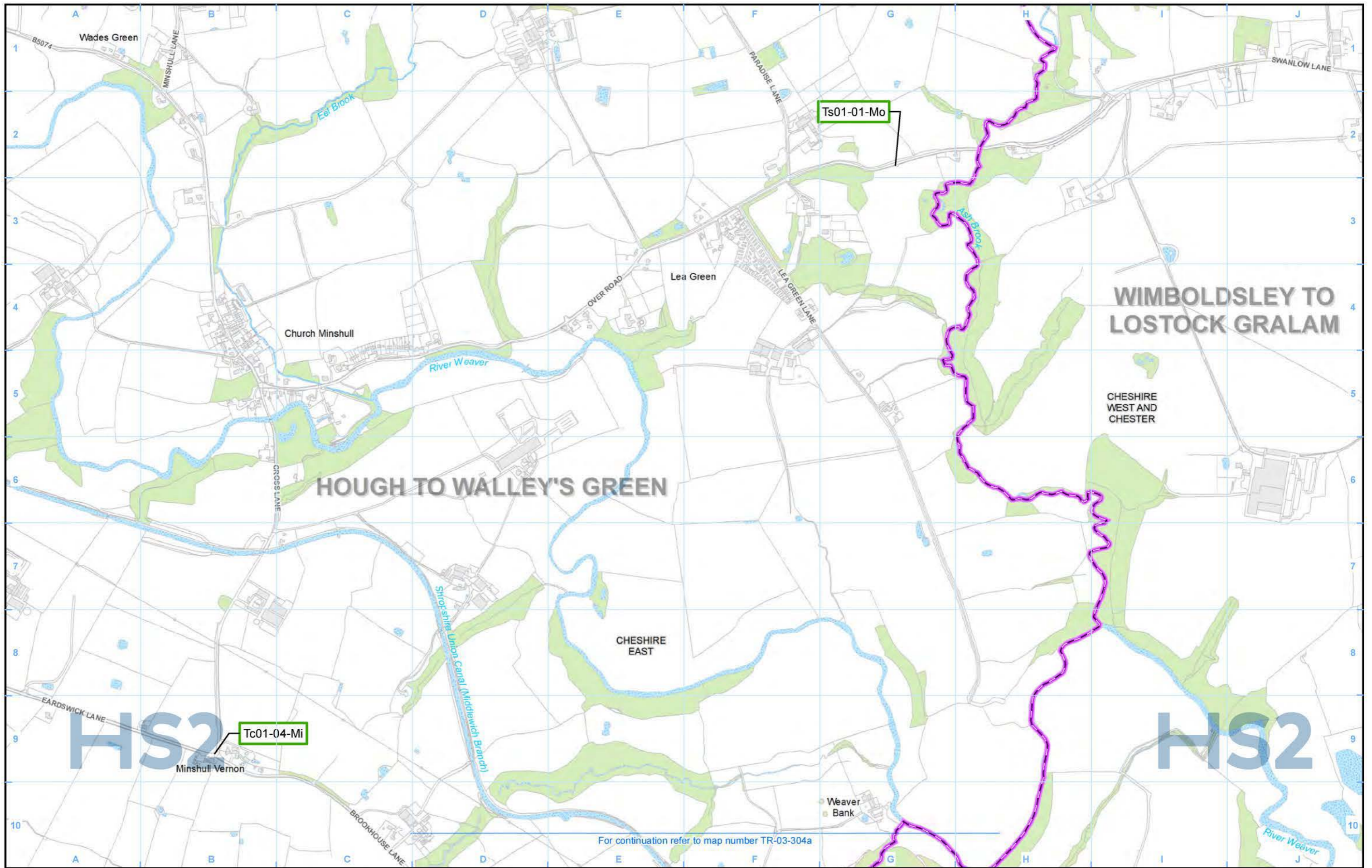
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Date: 26/04/22



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 County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Construction traffic routes 	<p>Construction significant effects unchanged from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>Construction significant effects arising from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>For full legend please refer to TR-03 legend page.</p>
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Map Number: TR-03-304a-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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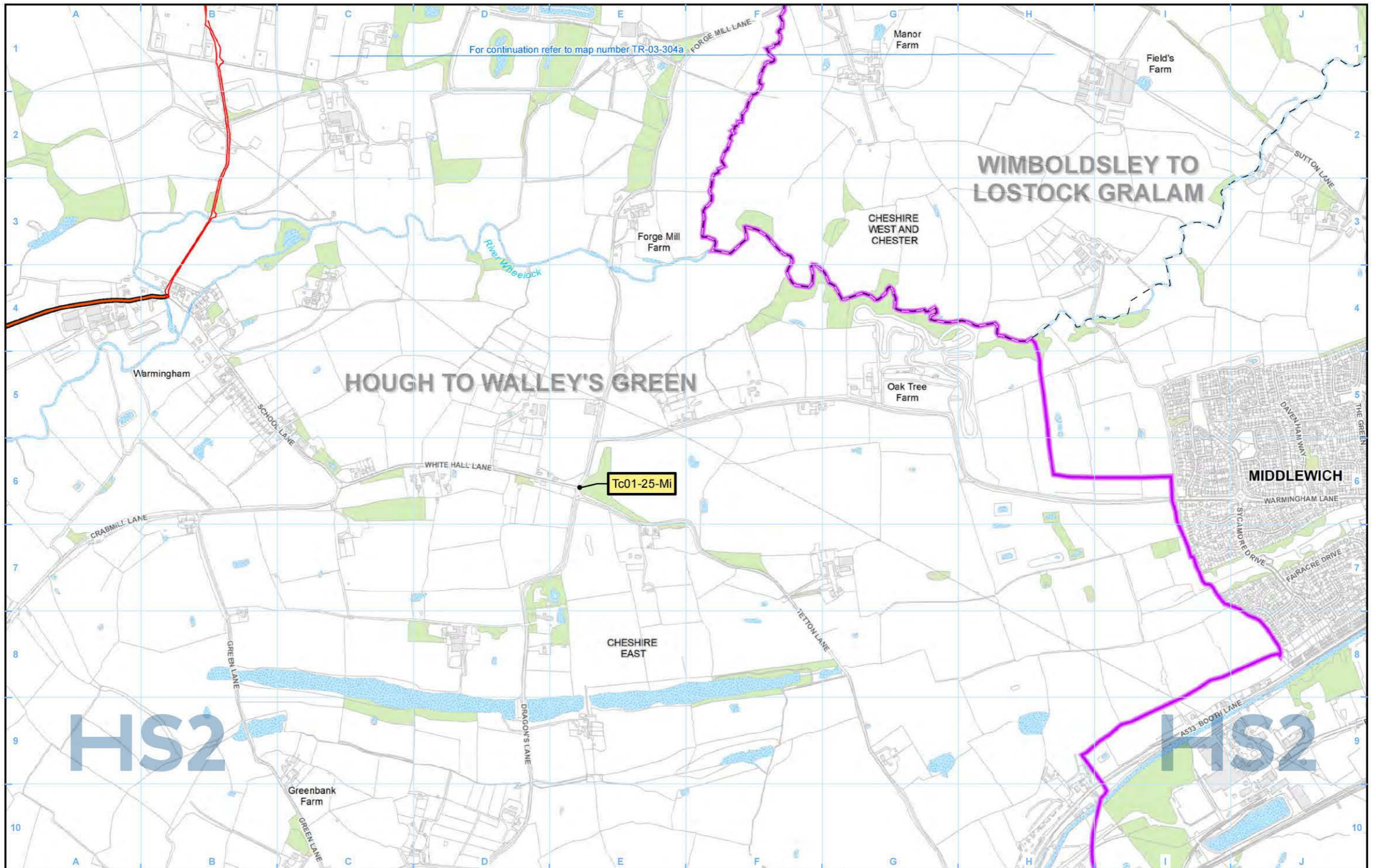
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Date: 26/04/22

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Metres



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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-304a-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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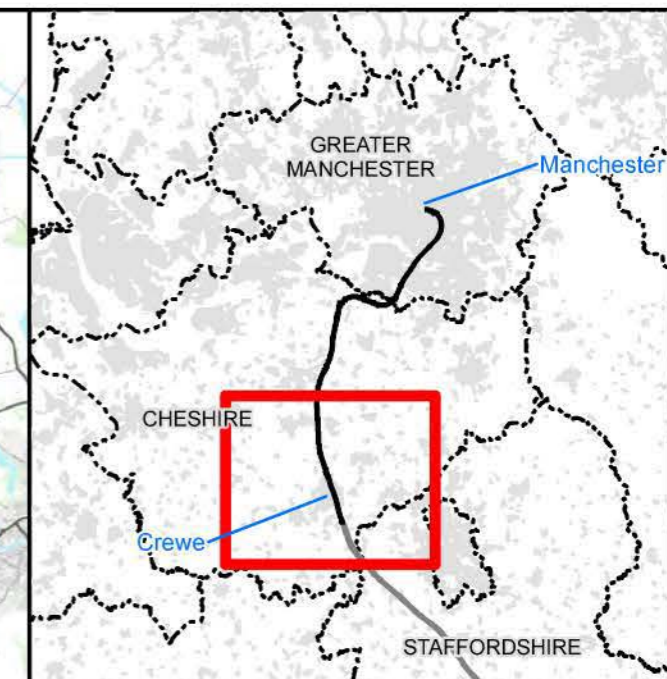
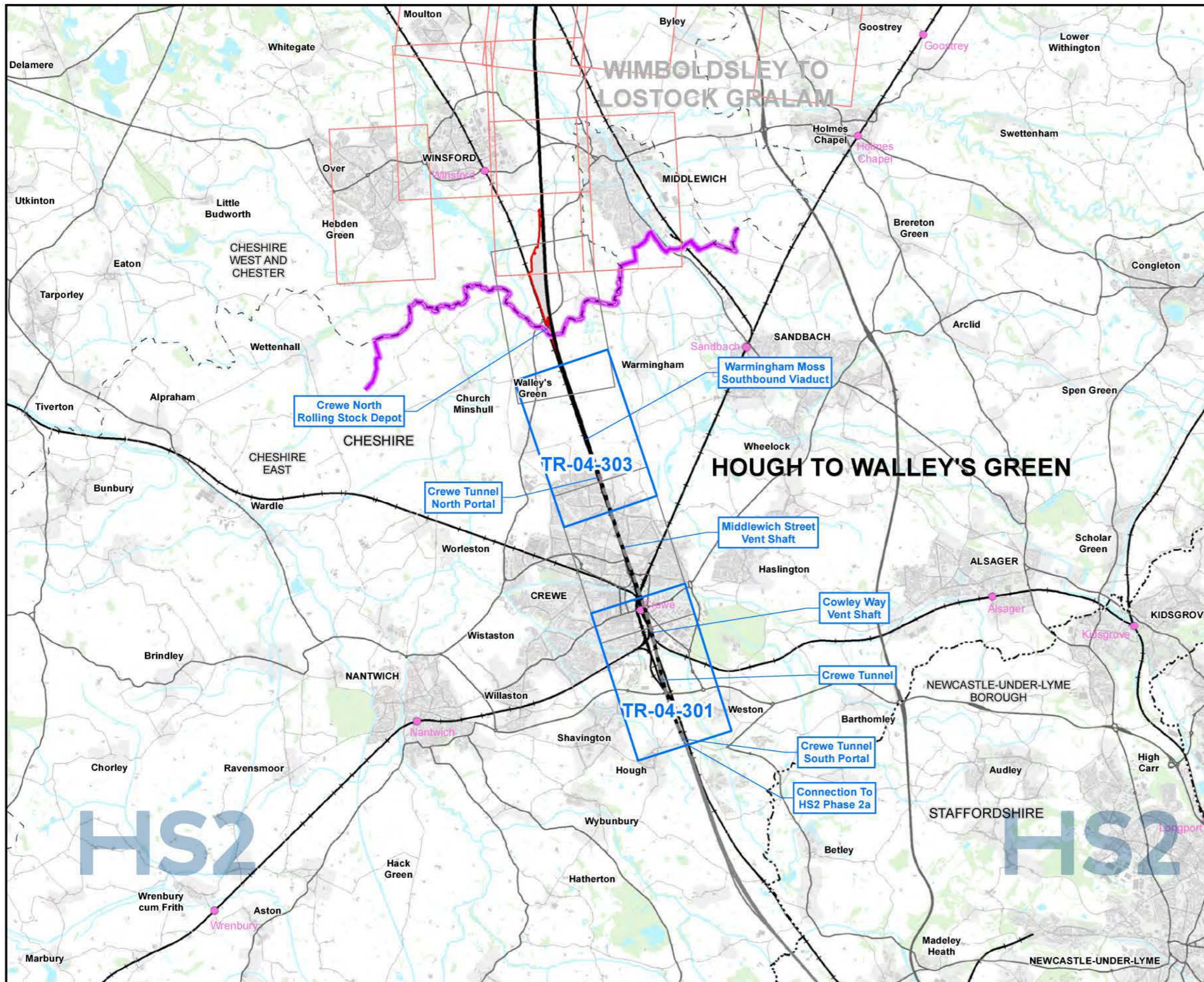
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Date: 26/04/22

Scale at A3: 1:10,000

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Map Series Information:

This map series identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2038 (Opening Year) and 2051 (Design Year).

- 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 included in this community area with no amendment
 - Map sheets not included in this community area

Map Number	TR-04-INDEX-MA01
Map Name	Index Map of: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES Community Area MA01: Hough to Walley's Green

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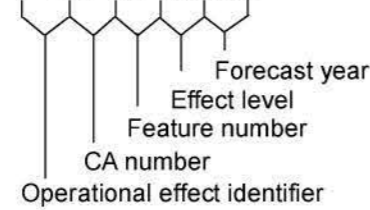
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002224-P01 Date: 22/04/22

Significant effect label:

Significant effect reference:

PT01-01-Mi-38



Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast year:

- 38 - Significant effect in 2038
- 51 - Significant effect in 2051
- Missing - Significant effect in both forecast years

Significant effects identified in the main ES for 2046 that are unchanged in the SES and AP assessments are now relabelled as 2051 to reflect the change in forecast year.

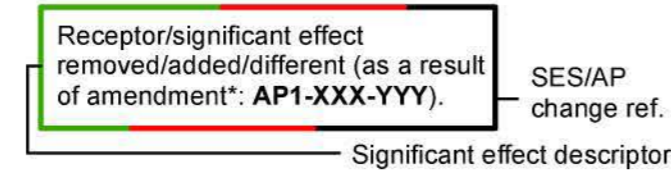
Where a significant effect is added or changed in one or both forecast years resulting in effects of the same type (i.e. adverse/beneficial) and level (i.e. minor/moderate/major) in the same location in both forecast years in SES/AP, the effects are labelled separately for each forecast year but have the same feature number.

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) in a given forecast year at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that in a given forecast year the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number: TR-04 - Legend

Map Name: TR-04 - Significant Residual Transport Effects Arising from Operation - SES1 and AP1 ES Legend

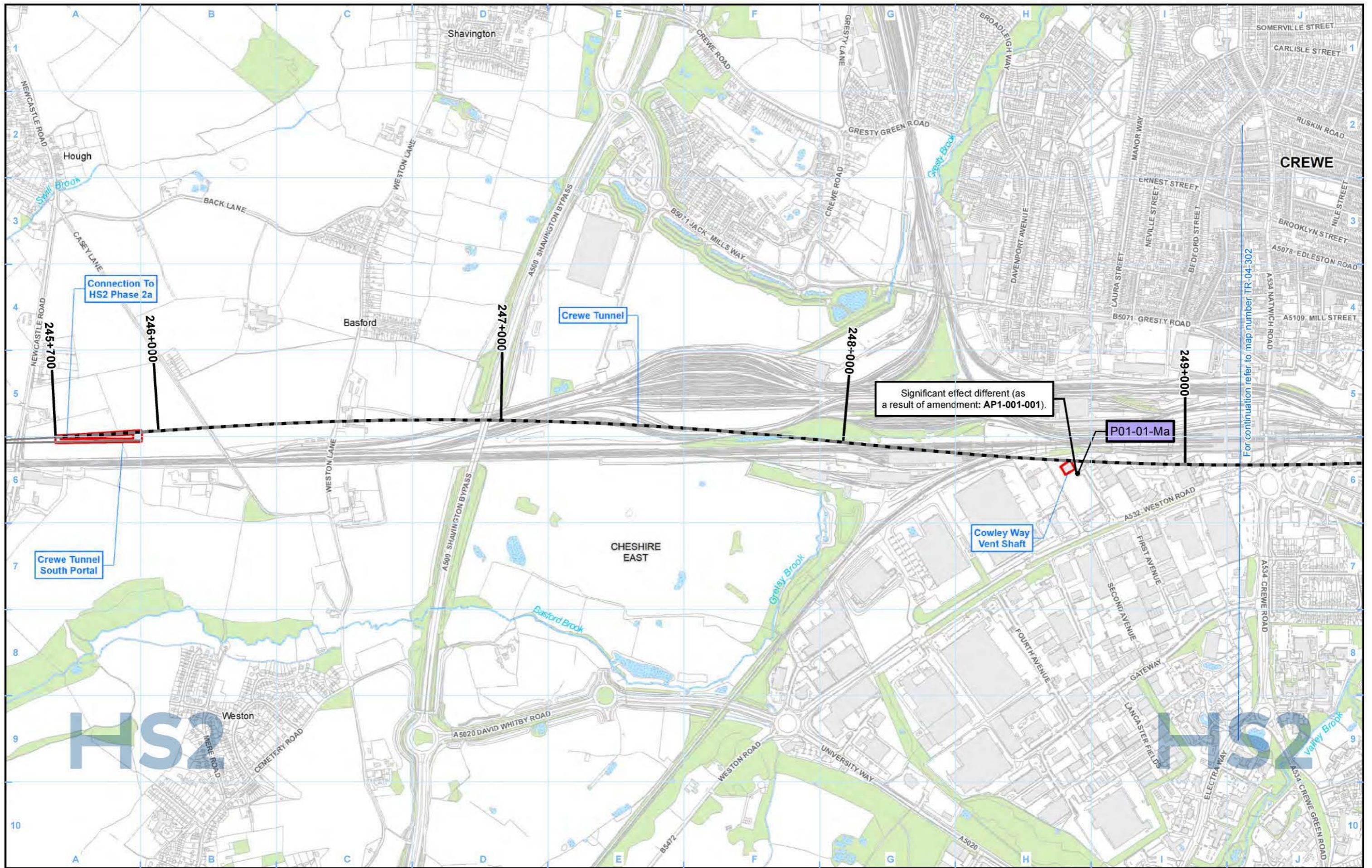


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Date: 22/04/22



For continuation refer to map TR-04-302

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-301

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

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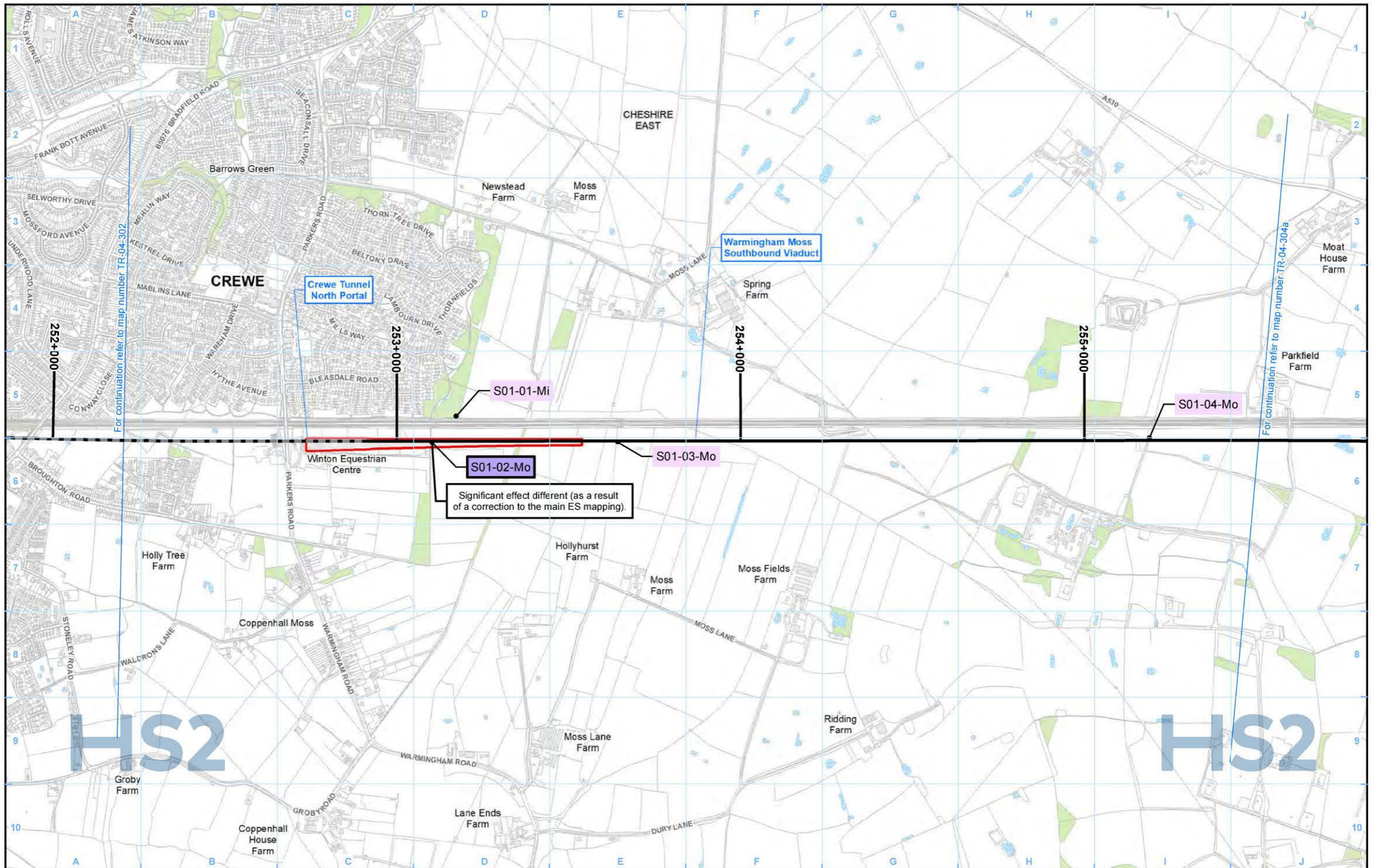
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002189-P01

Scale at A3: 1:10,000

Metres

Date: 22/04/22



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-303

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA01: Hough to Walley's Green

HS2

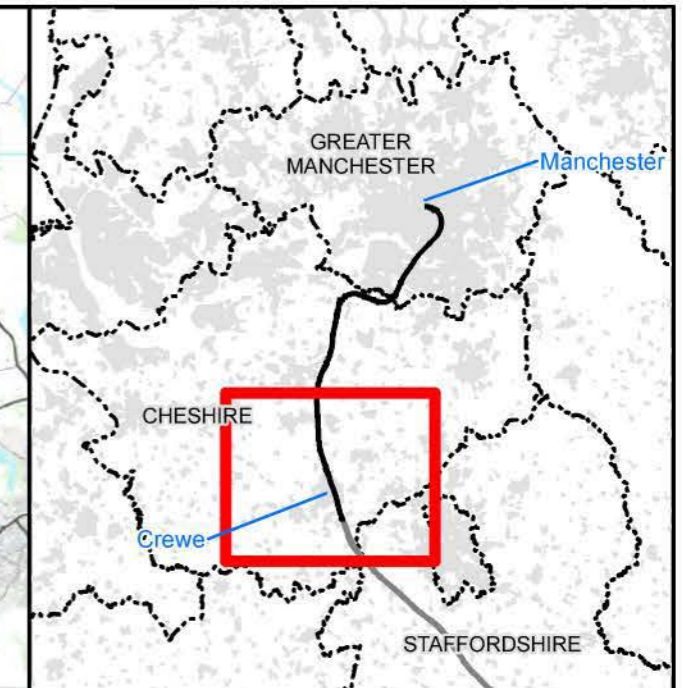
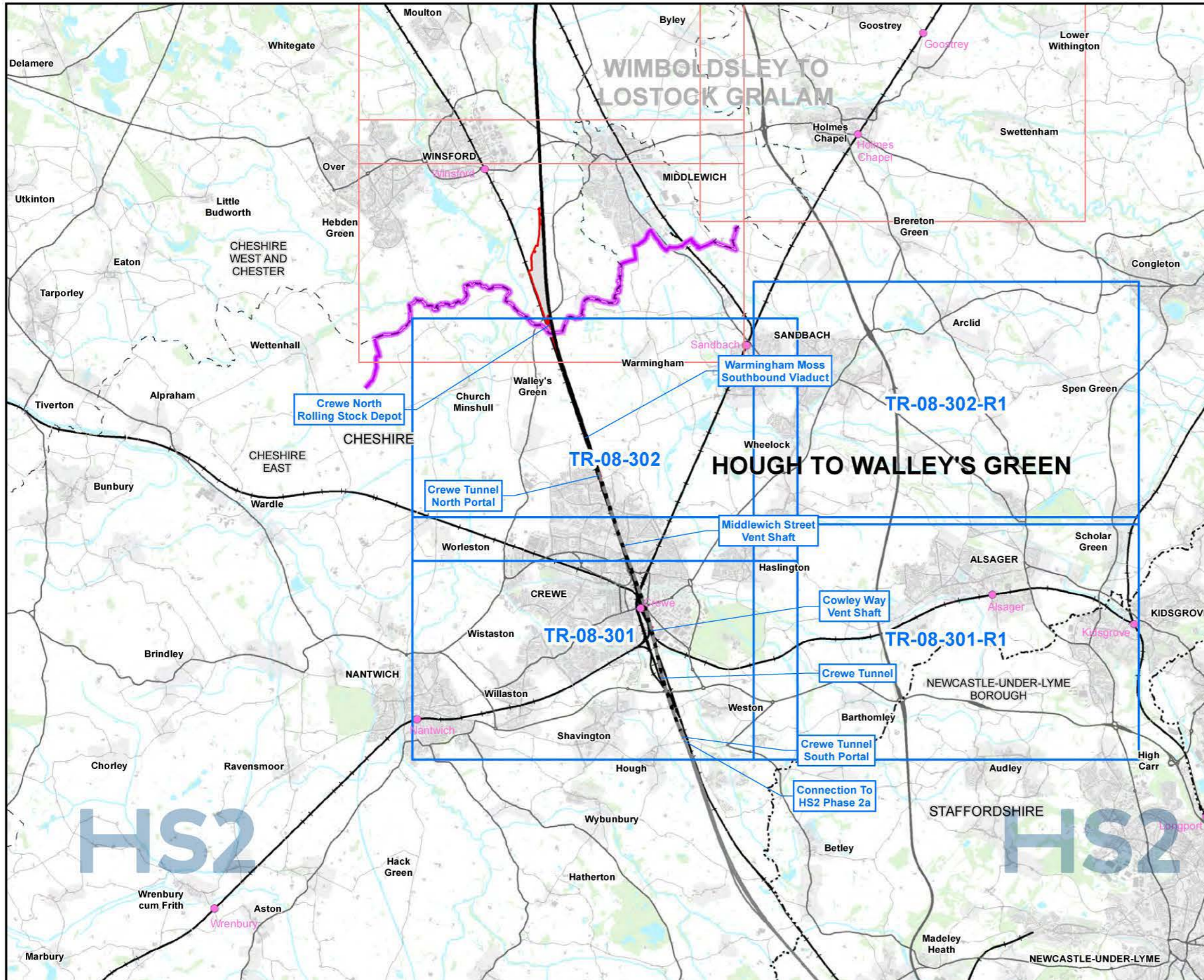
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002191-P01

Date: 22/04/22

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Map Series Information:

This map series identifies the construction routes to the strategic network for each CA. This shows the construction and site-haul routes from each compound and the through routes for both construction and site-haul. The maps also show the locations of the construction compound.

- 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 included in this community area with no amendment
 - Map sheets not included in this community area

Map Number: TR-08-INDEX-MA01

Map Name: Index Map of:
Construction Routes to the Strategic Network
SES1 and AP1 ES

Community Area MA01:
Hough to Walley's Green

HS2

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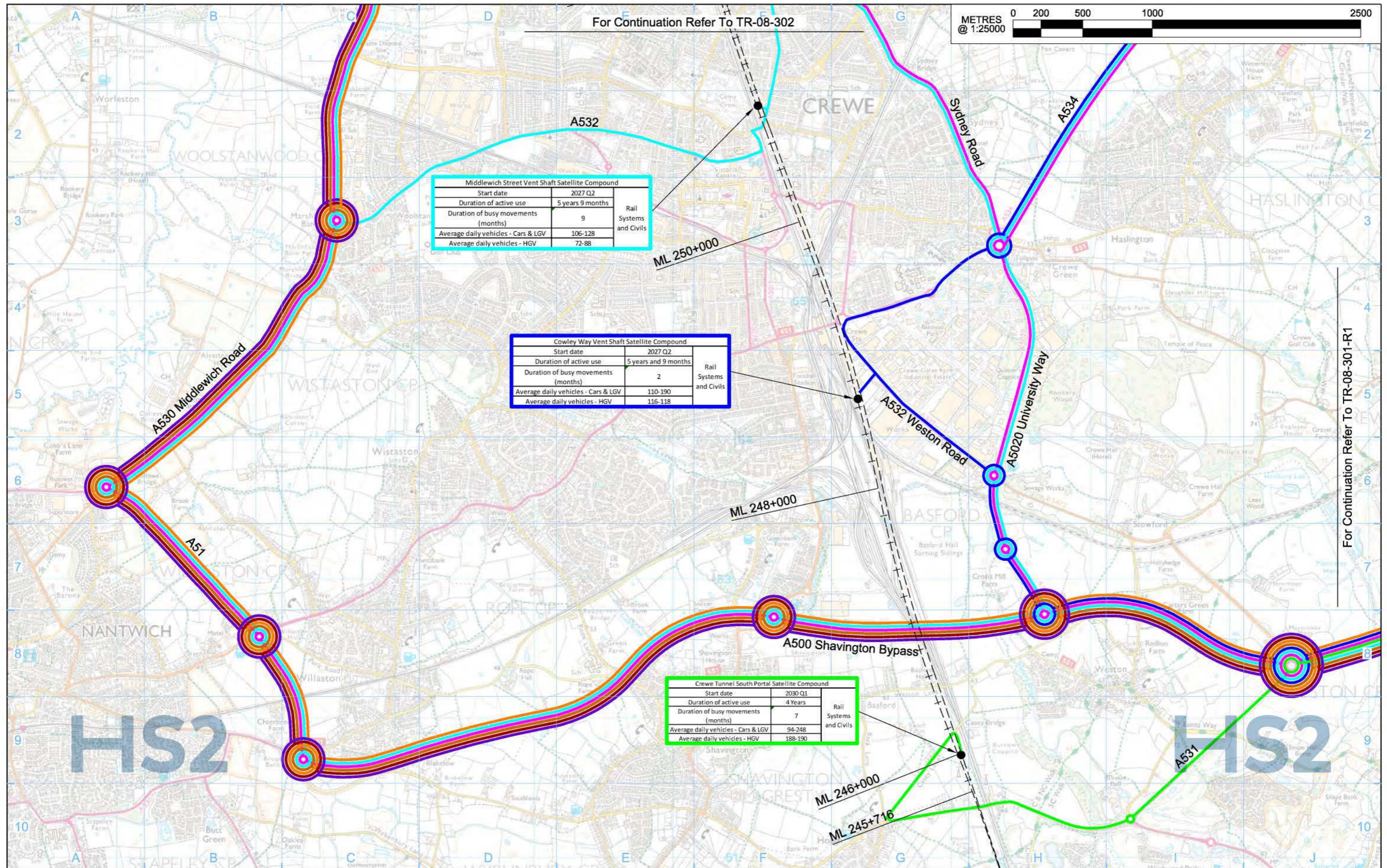
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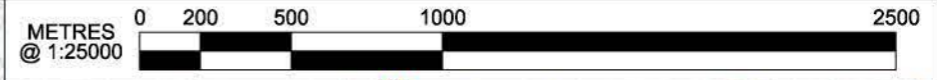
Doc Number: 2PT24-MWJ-EV-MAP-M000-002235-P01

Date: 19/04/22

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



For Continuation Refer To TR-08-302



Middlewich Street Vent Shaft Satellite Compound		
Start date	2027 Q2	Rail Systems and Civils
Duration of active use	5 years 9 months	
Duration of busy movements (months)	9	
Average daily vehicles - Cars & LGV	106-128	
Average daily vehicles - HGV	72-88	

ML 250+000

Cowley Way Vent Shaft Satellite Compound		
Start date	2027 Q2	Rail Systems and Civils
Duration of active use	5 years and 9 months	
Duration of busy movements (months)	2	
Average daily vehicles - Cars & LGV	110-190	
Average daily vehicles - HGV	116-118	

ML 248+000

Crewe Tunnel South Portal Satellite Compound		
Start date	2030 Q1	Rail Systems and Civils
Duration of active use	4 Years	
Duration of busy movements (months)	7	
Average daily vehicles - Cars & LGV	94-248	
Average daily vehicles - HGV	188-190	

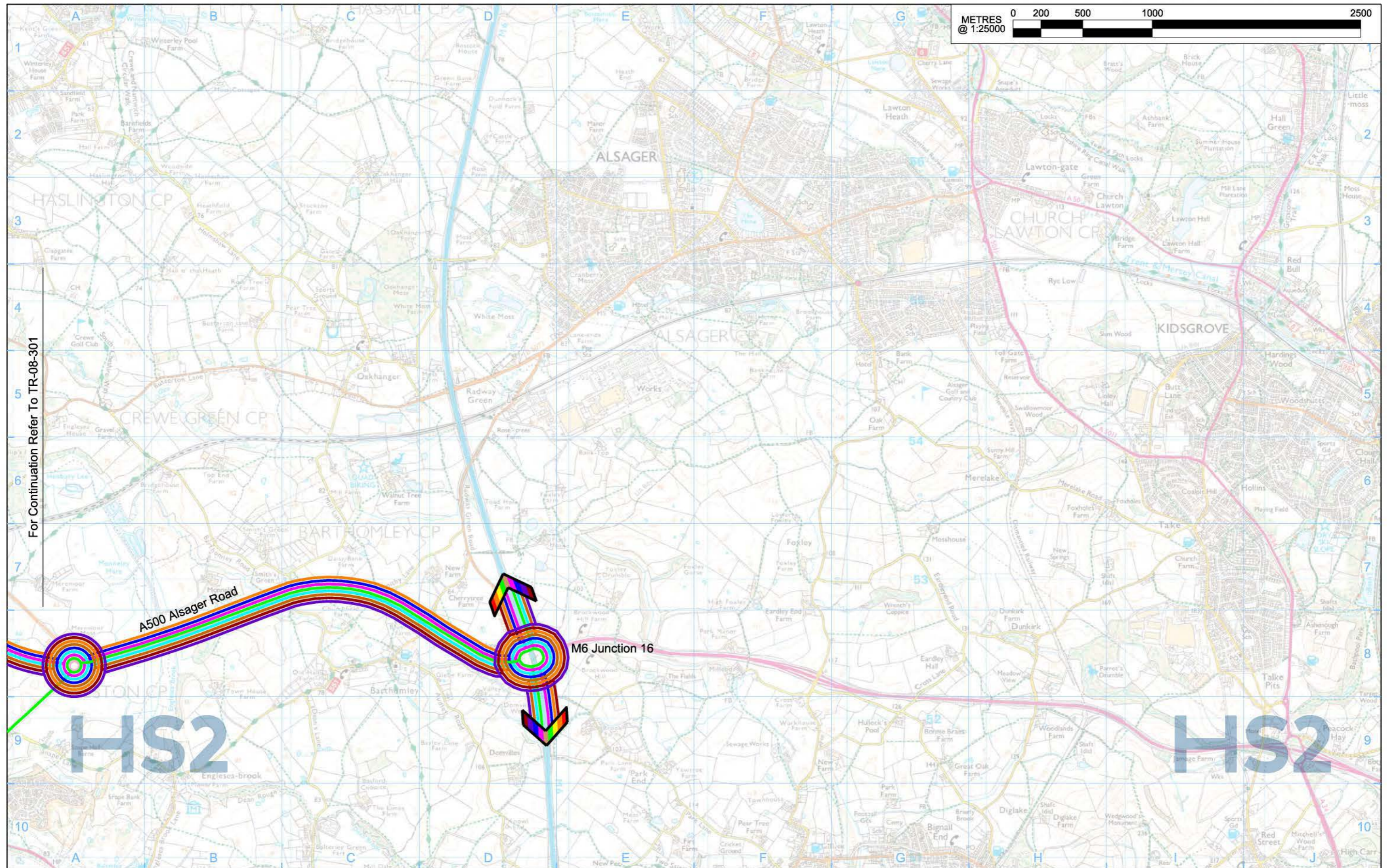
ML 246+000

ML 245+716

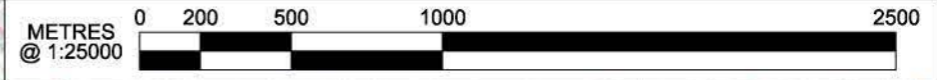
For Continuation Refer To TR-08-301-R1

Legend Compound Traffic Routes Site Haul to Compound Through Construction Traffic Routes (To/From Other Scheme Compounds) HS2 Route Onward Construction Routes Community Area boundary Through Site Haul to Compound (To/From Other Scheme Compounds) Movement of Excavated Material Construction Compounds		The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports. Traffic figures represent two way trips.	Map Number TR-08-301 Map Name Construction Routes to the Strategic Road Network Community Area MA01 Hough to Walley's Green	 Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA © Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190. Doc Number: 2PT24-MWJ-TM-DPL-M002-301000 P02 Date: 19/11/21
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Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound
 For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000

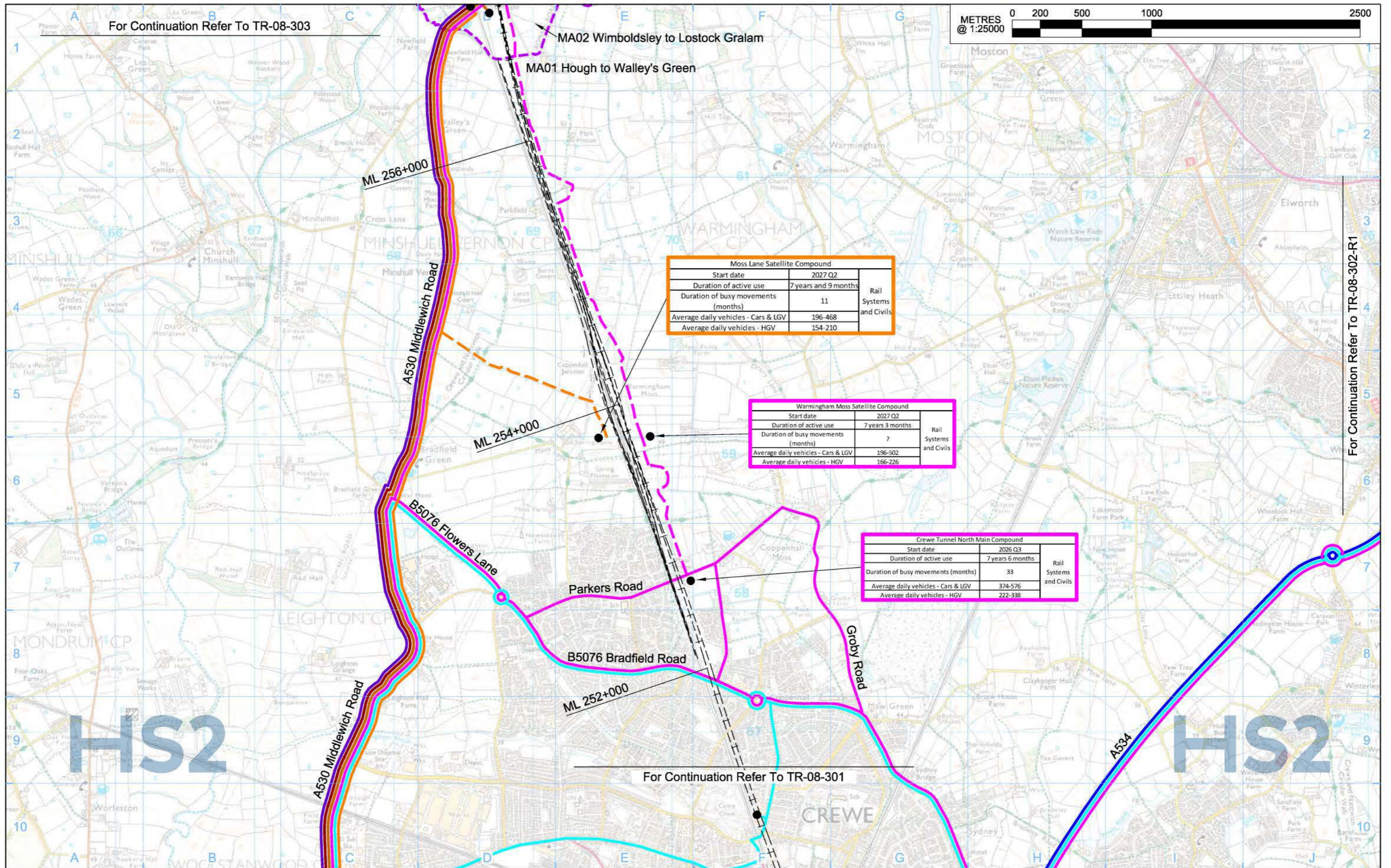


For Continuation Refer To TR-08-301

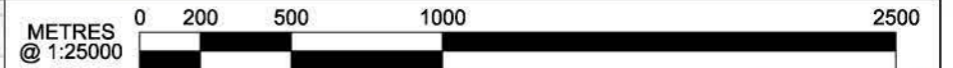


Legend Compound Traffic Routes Site Haul to Compound Through Construction Traffic Routes (To/From Other Scheme Compounds) HS2 Route Onward Construction Routes Community Area boundary Through Site Haul to Compound (To/From Other Scheme Compounds) Movement of Excavated Material Construction Compounds		<p>The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.</p> <p>Traffic figures represent two way trips.</p>	<p>Map Number TR-08-301-R1</p> <p>Map Name Construction Routes to the Strategic Road Network</p> <p>Community Area MA01 Hough to Walley's Green</p>	<p>HS2 Registered in England Registration No. 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> <p>© Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2PT24-MWJ-TM-DPL-M002-301201 P02 Date: 19/11/21</p>
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Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound
 For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000



For Continuation Refer To TR-08-303



MA02 Wimboldsley to Lostock Grlam

MA01 Hough to Walley's Green

ML 256+000

Moss Lane Satellite Compound		
Start date	2027 Q2	Rail Systems and Civils
Duration of active use	7 years and 9 months	
Duration of busy movements (months)	11	
Average daily vehicles - Cars & LGV	196-468	
Average daily vehicles - HGV	154-210	

Warrington Moss Satellite Compound		
Start date	2027 Q2	Rail Systems and Civils
Duration of active use	7 years 3 months	
Duration of busy movements (months)	7	
Average daily vehicles - Cars & LGV	196-502	
Average daily vehicles - HGV	166-226	

Crewe Tunnel North Main Compound		
Start date	2026 Q3	Rail Systems and Civils
Duration of active use	7 years 6 months	
Duration of busy movements (months)	33	
Average daily vehicles - Cars & LGV	374-576	
Average daily vehicles - HGV	222-338	

For Continuation Refer To TR-08-302-R1

For Continuation Refer To TR-08-301

- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.
Traffic figures represent two way trips.

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound
For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000

Map Number
TR-08-302

Map Name
Construction Routes to the Strategic Road Network

Community Area
MA01 Hough to Walley's Green

HS2

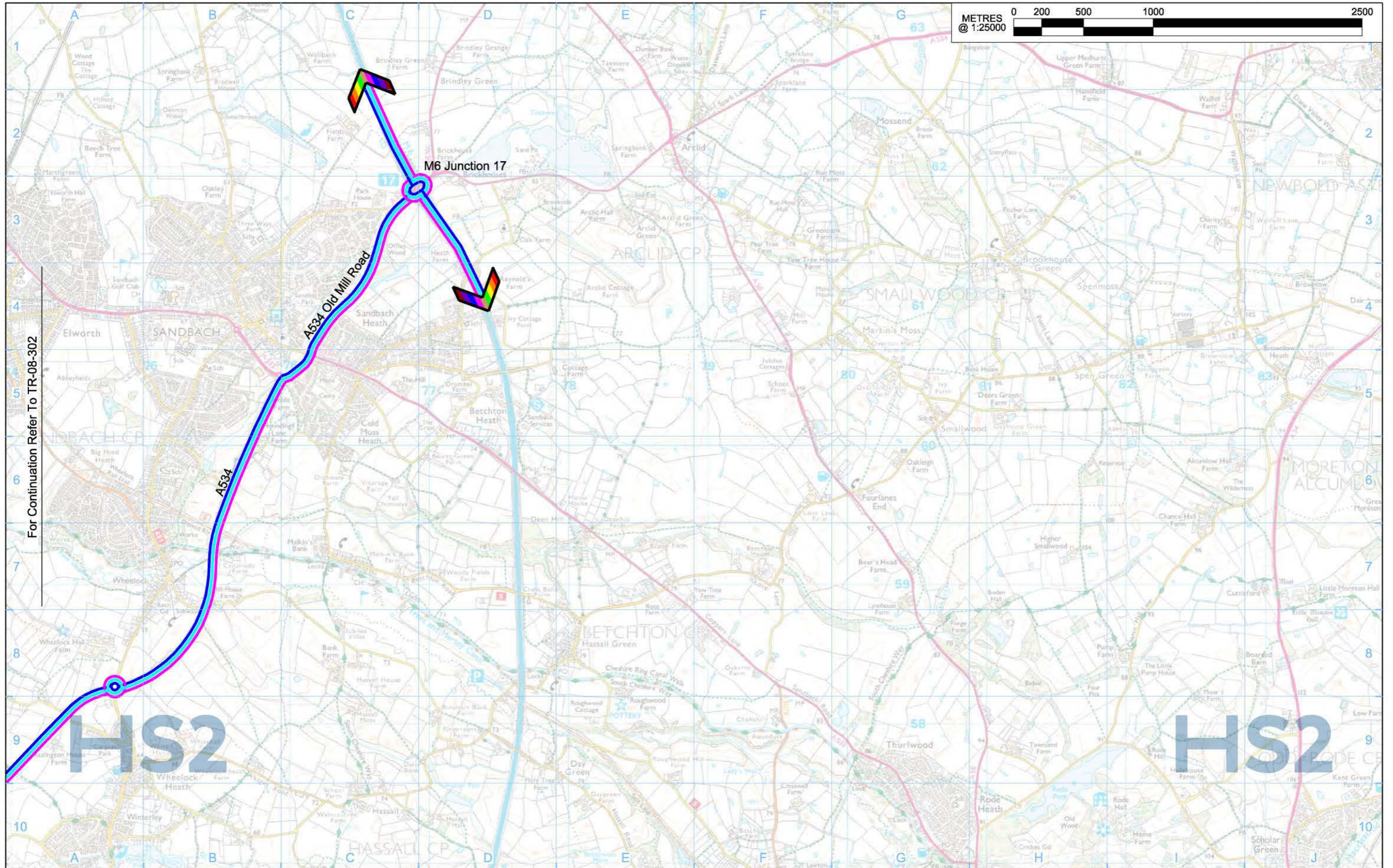
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0 50 100 150 200 250
Metres

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For Continuation Refer To TR-08-302



Legend Compound Traffic Routes Site Haul to Compound Through Construction Traffic Routes (To/From Other Scheme Compounds) HS2 Route Onward Construction Routes Community Area boundary Through Site Haul to Compound (To/From Other Scheme Compounds) Movement of Excavated Material Construction Compounds		<p>The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.</p> <p>Traffic figures represent two way trips.</p>	<p>Map Number TR-08-302-R1</p> <p>Map Name Construction Routes to the Strategic Road Network</p> <p>Community Area MA01 Hough to Walley's Green</p>	<p>HS2 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England Registration No. 06791666 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA</p> <p>© Crown copyright and database rights 2020. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: 2PT24-MWJ-TM-DPL-M002-3002201 P02 Date: 19/11/21</p>
<p>Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound</p> <p>For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000</p>				

High Speed Rail (Crewe – Manchester)

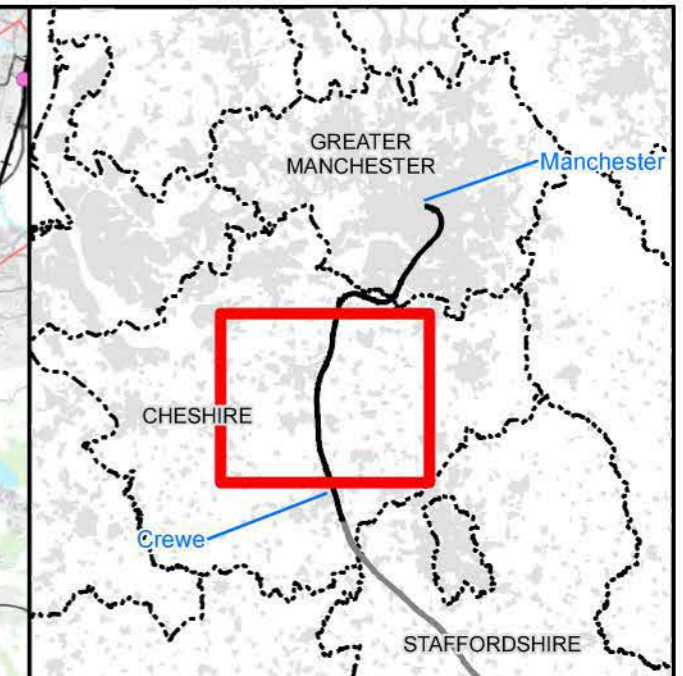
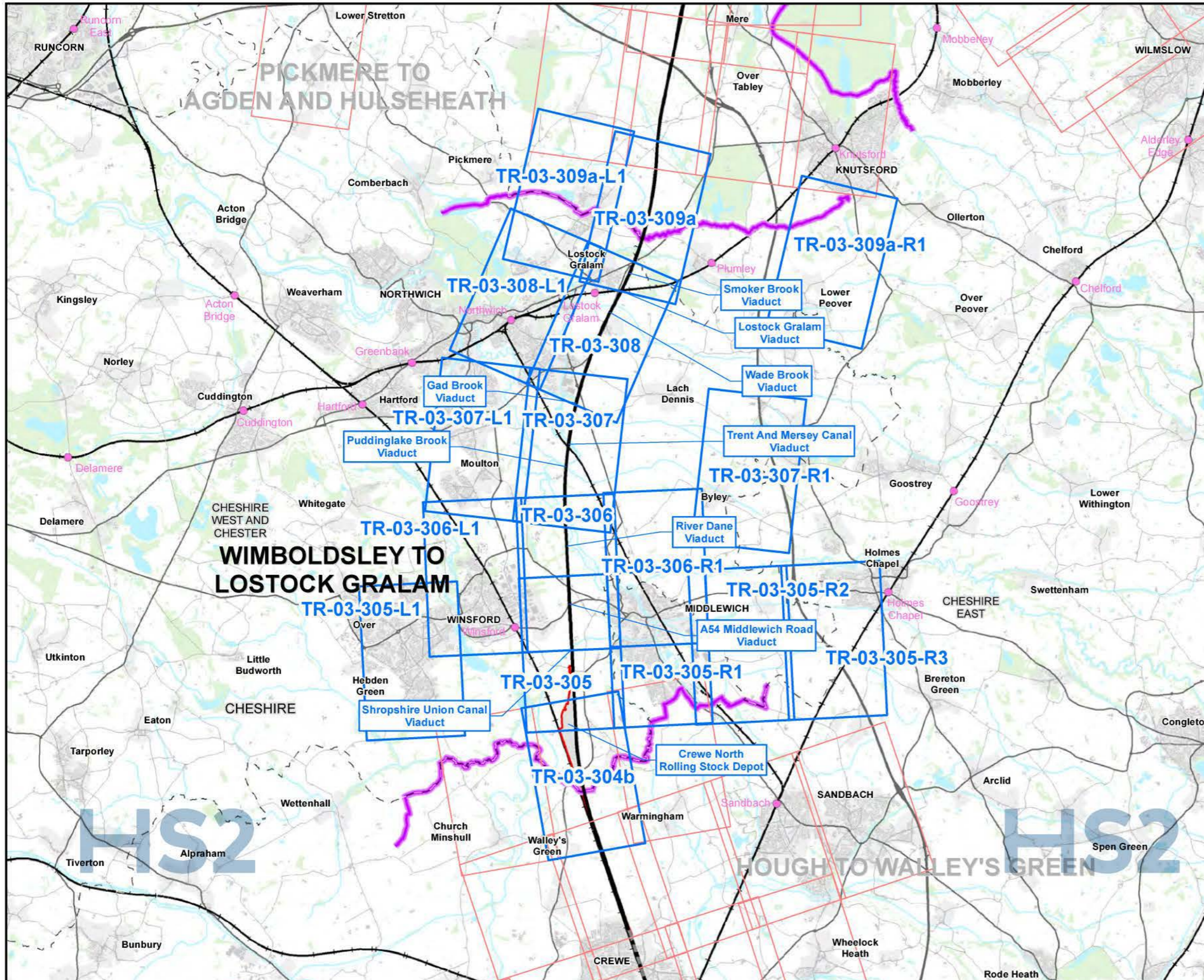
Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

MA02: Wimboldsley to Lostock Gralam

TR-03 – Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

TR-04 – Significant Residual Transport Effects Arising from Operation

TR-08 – Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

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 included in this community area with no amendment
- Map sheets not included in this community area

Map Number	TR-03-INDEX-MA02
Map Name	Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA02: Wimboldsley to Lostock Gralam

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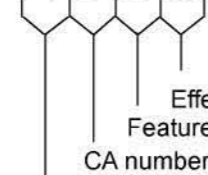
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002179-P01 Date: 26/04/22

Significant effect label:

Significant effect reference:

PT01-01-Mi



Operational effect identifier

Effect level
Feature number

CA number

Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

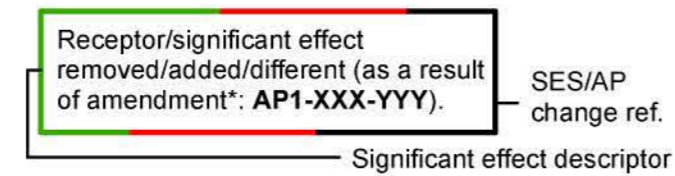
- Mi - Minor
- Mo - Moderate
- Ma - Major

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number TR-03 - Legend

Map Name
TR-03 - Significant Residual
Transport Effects Arising
during Construction and
Construction Traffic Routes -
SES1 and AP1 ES

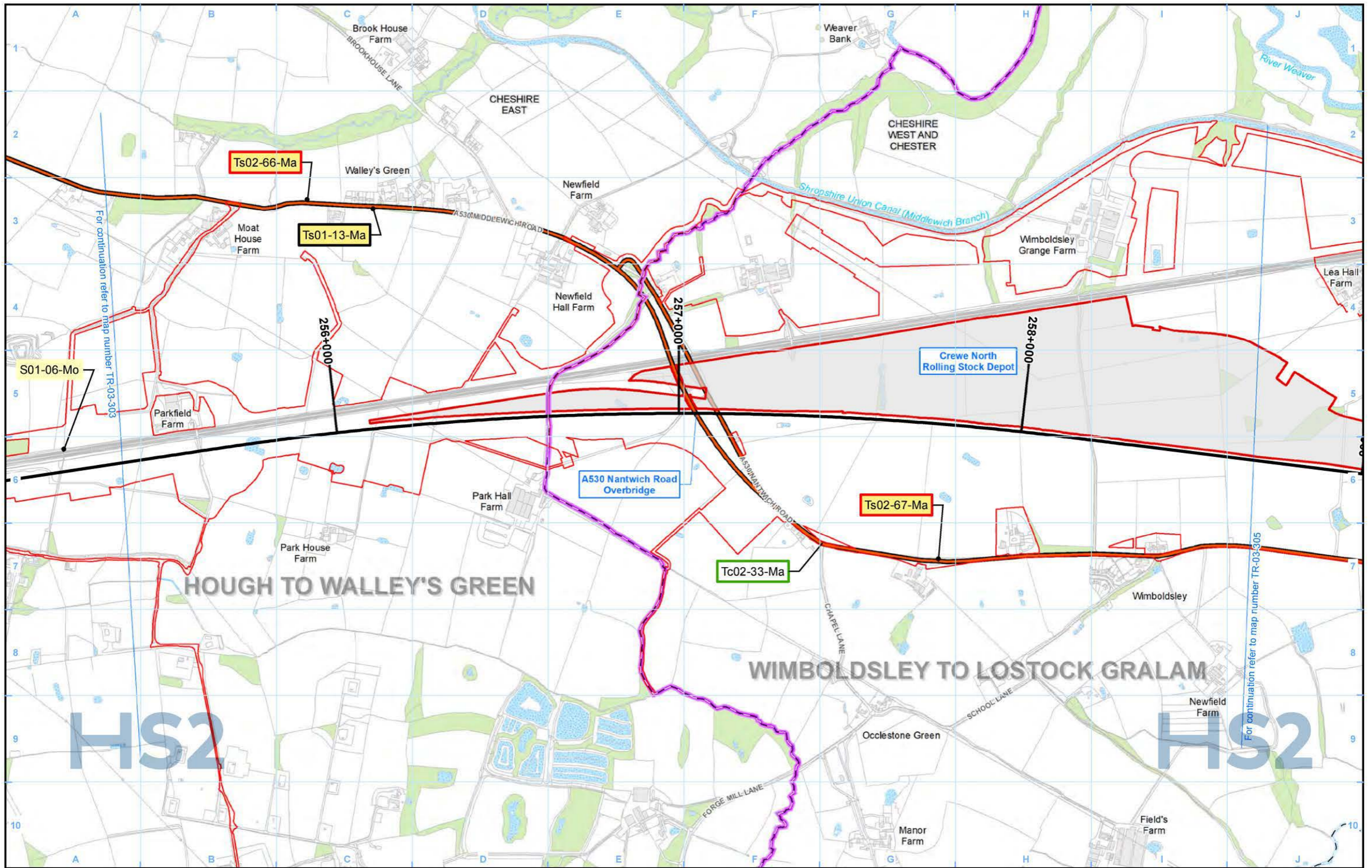


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Date: 26/04/22



Legend

	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		Construction traffic routes
	Community area boundary		
	County boundary		
	District/Borough boundary		

Construction significant effects unchanged from the SES/AP:		Construction significant effects arising from the SES/AP:	
	Adverse, permanent		Adverse, permanent
	Adverse, temporary		Adverse, temporary
	Beneficial, temporary		Beneficial, temporary
	Beneficial, permanent		Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-304b
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA02: Wimboldsley to Lostock Gralam	

HS2

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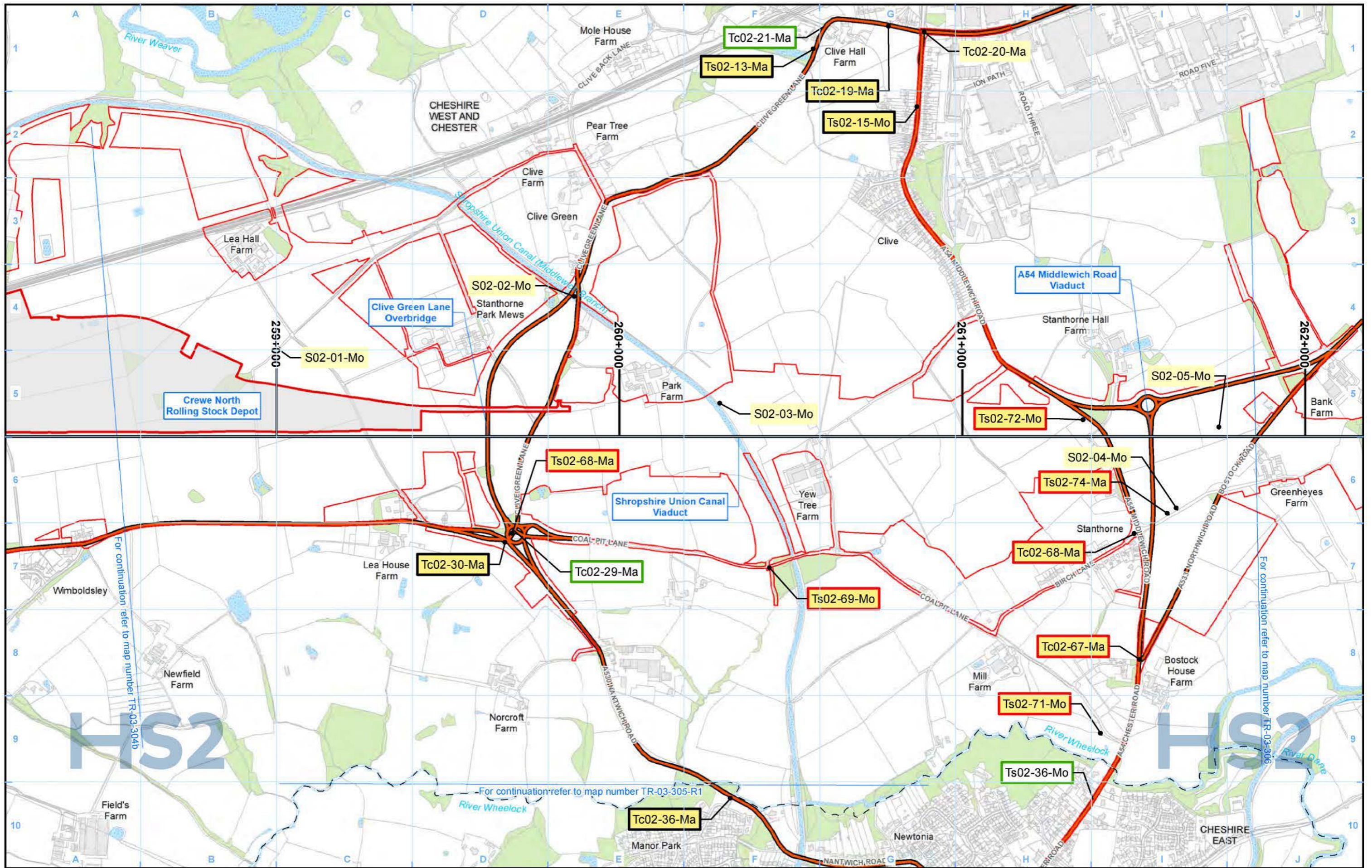
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Metres



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
- Construction traffic routes

Construction significant effects unchanged from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

Construction significant effects arising from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-305

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

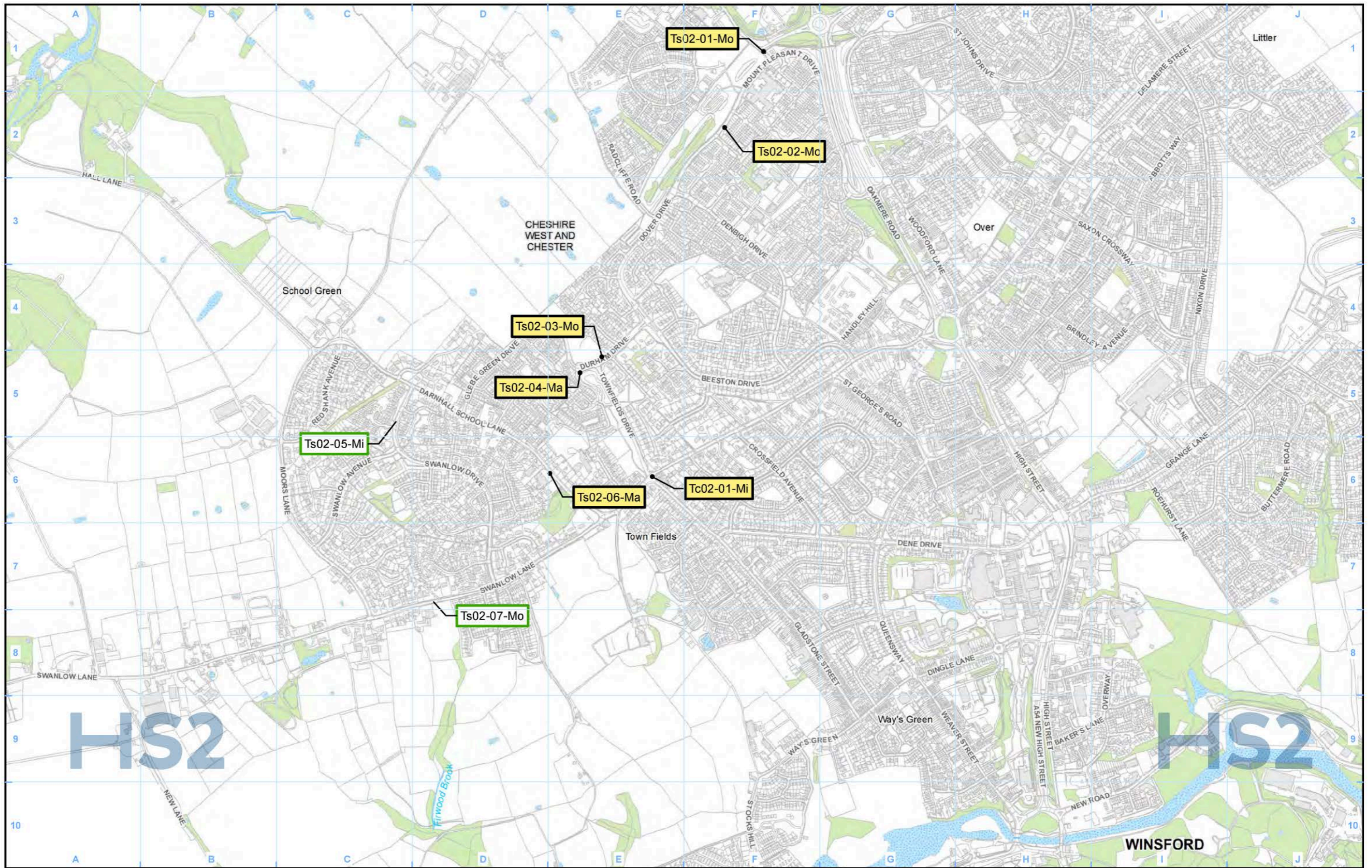
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-305-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Grlam

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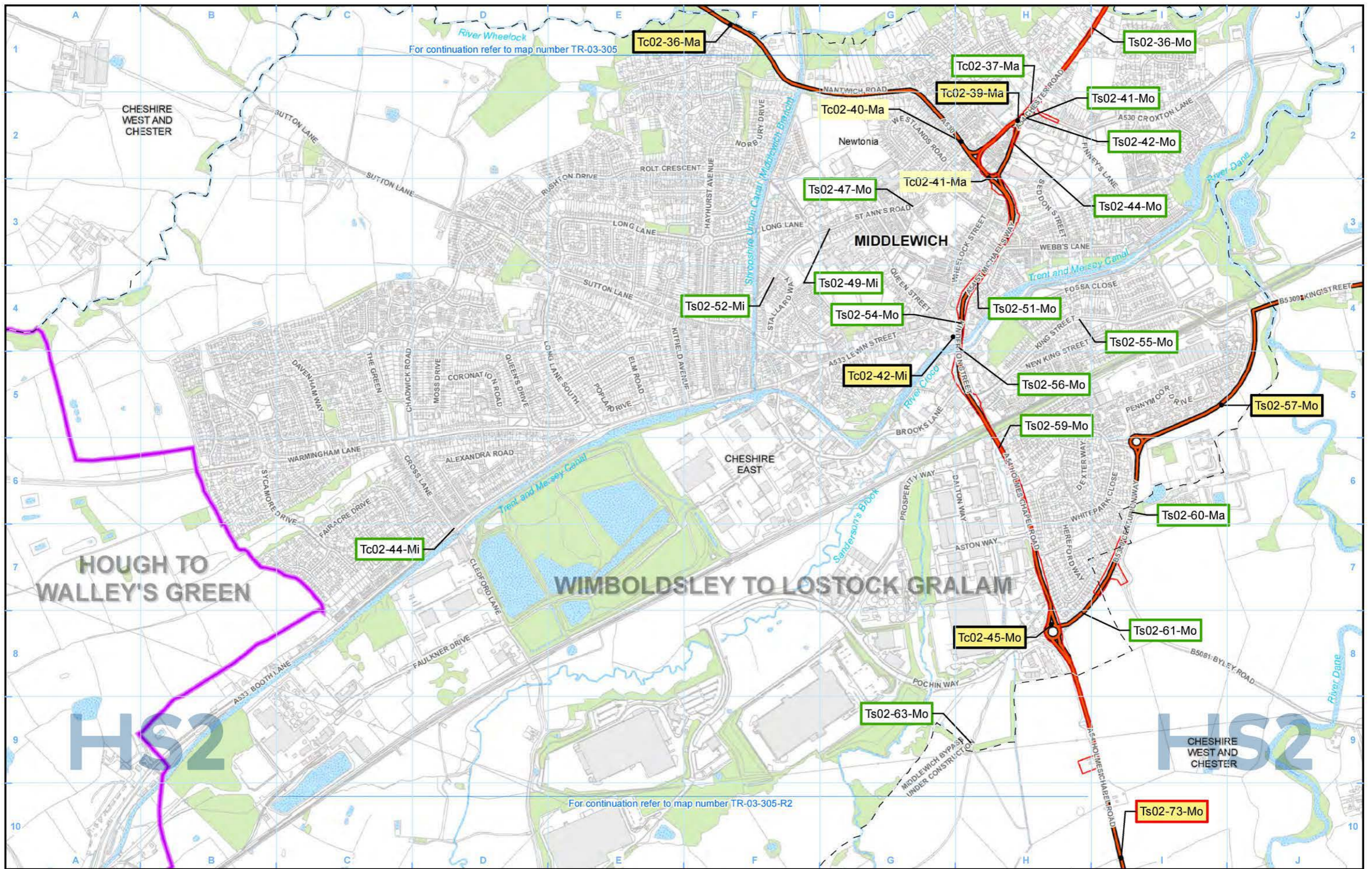
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Date: 26/04/22

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Metres



Legend

Route in tunnel	Watercourse	Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:
Route on surface	Water body		
Depot, station, headhouse or portal building	Woodland	Adverse, permanent	Adverse, permanent
Land potentially required during construction	Construction traffic routes	Adverse, temporary	Adverse, temporary
Community area boundary		Beneficial, temporary	Beneficial, temporary
County boundary		Beneficial, permanent	Beneficial, permanent
District/Borough boundary			

For full legend please refer to TR-03 legend page.

Map Number: TR-03-305-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

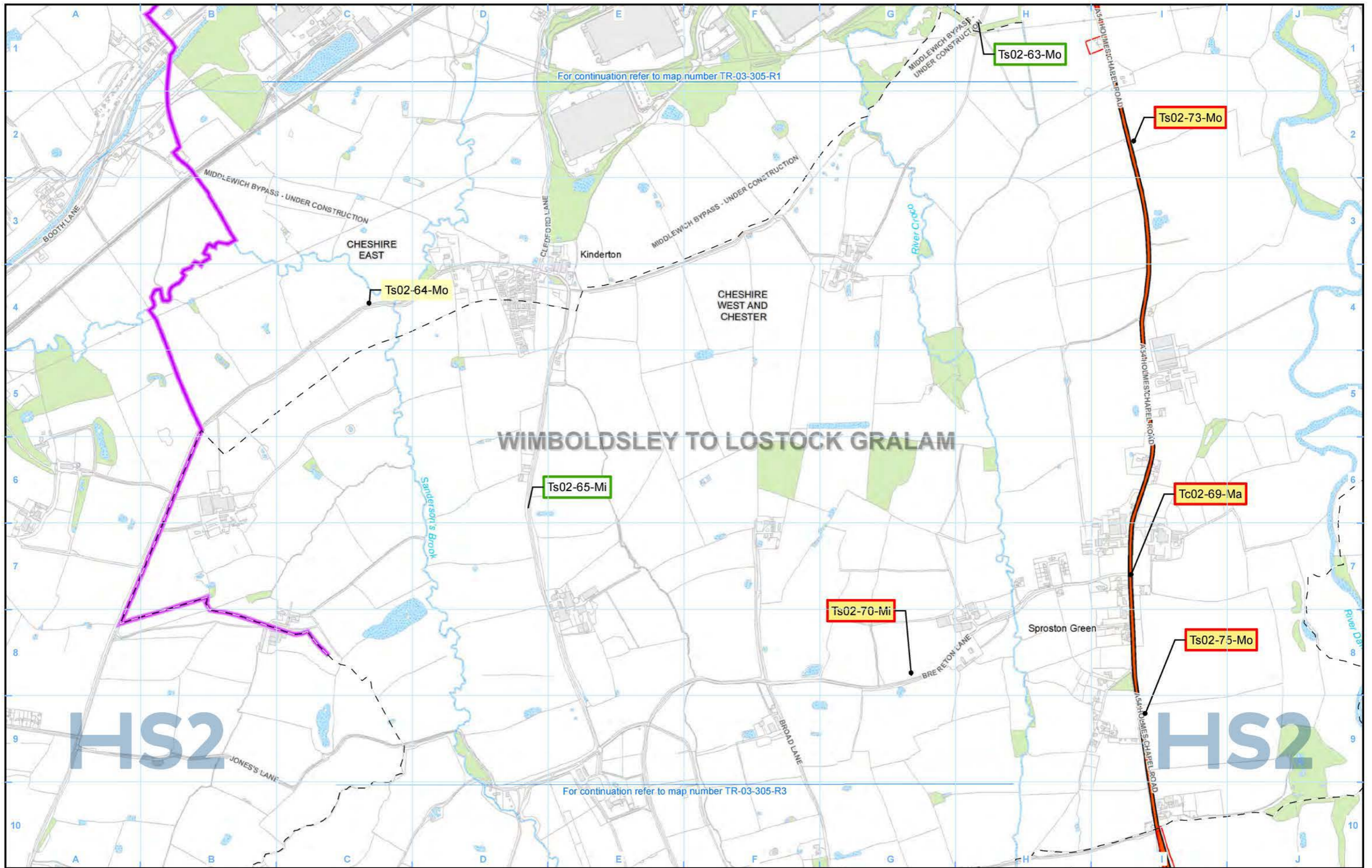
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For continuation refer to map number TR-03-305-R1

For continuation refer to map number TR-03-305-R3

WIMBOLDSLEY TO LOSTOCK GRALAM

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-305-R2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

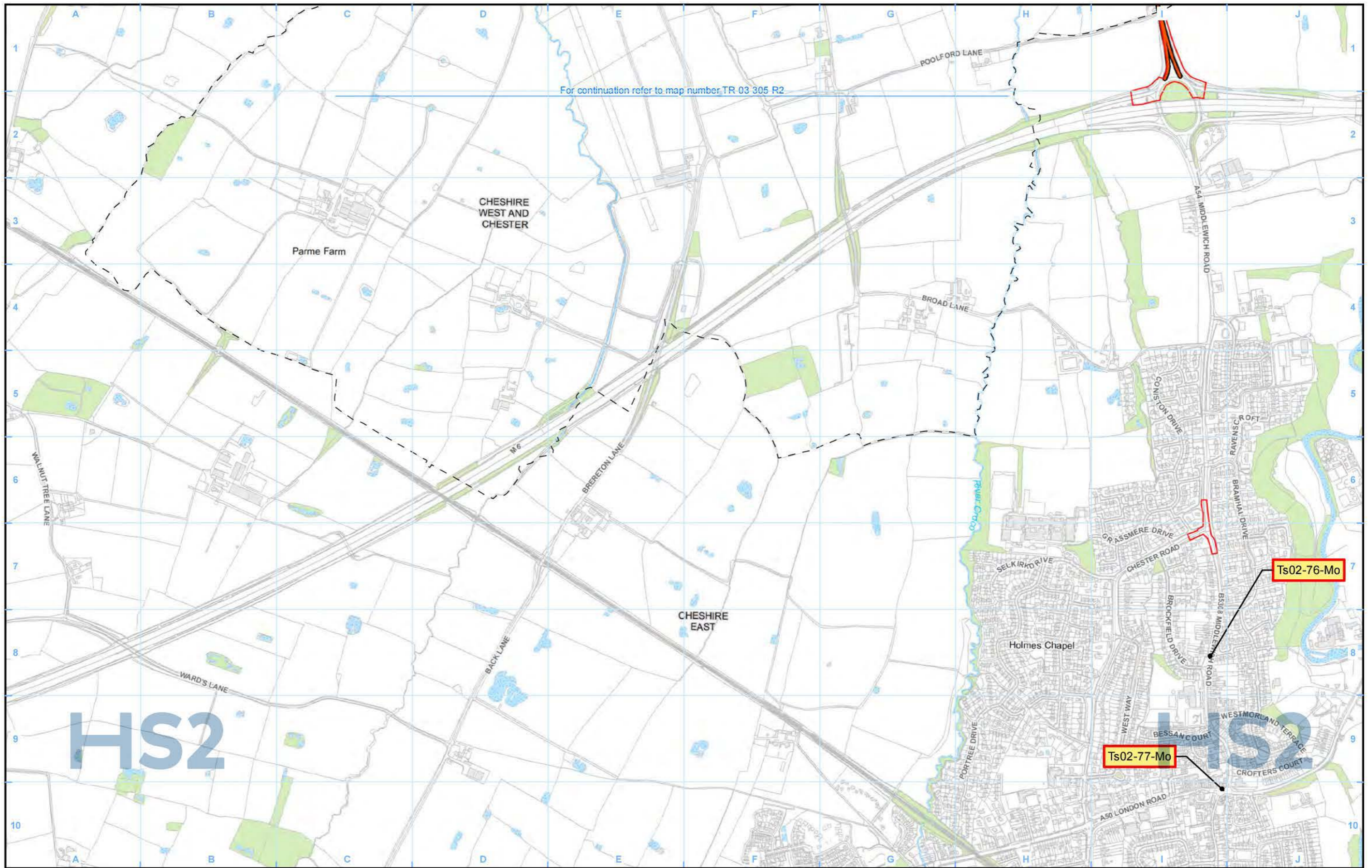
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HS2

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-305-R3

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Grlam

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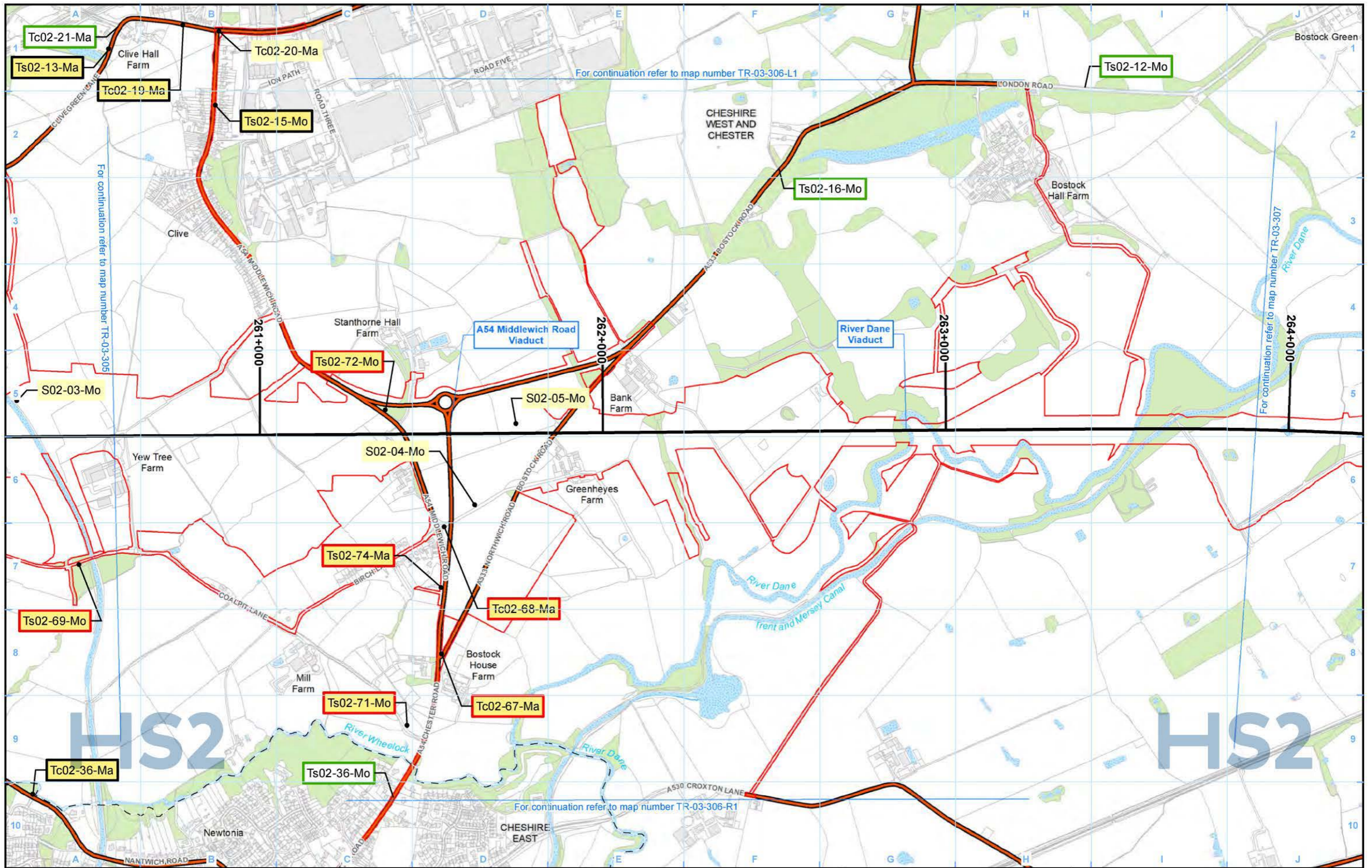
Doc Number: 2PT24-MWJ-EV-MAP-M000-004148-P01

Date: 26/04/22

Scale at A3: 1:10,000

Metres

North Arrow



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
- Construction traffic routes

Construction significant effects unchanged from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

Construction significant effects arising from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-306

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

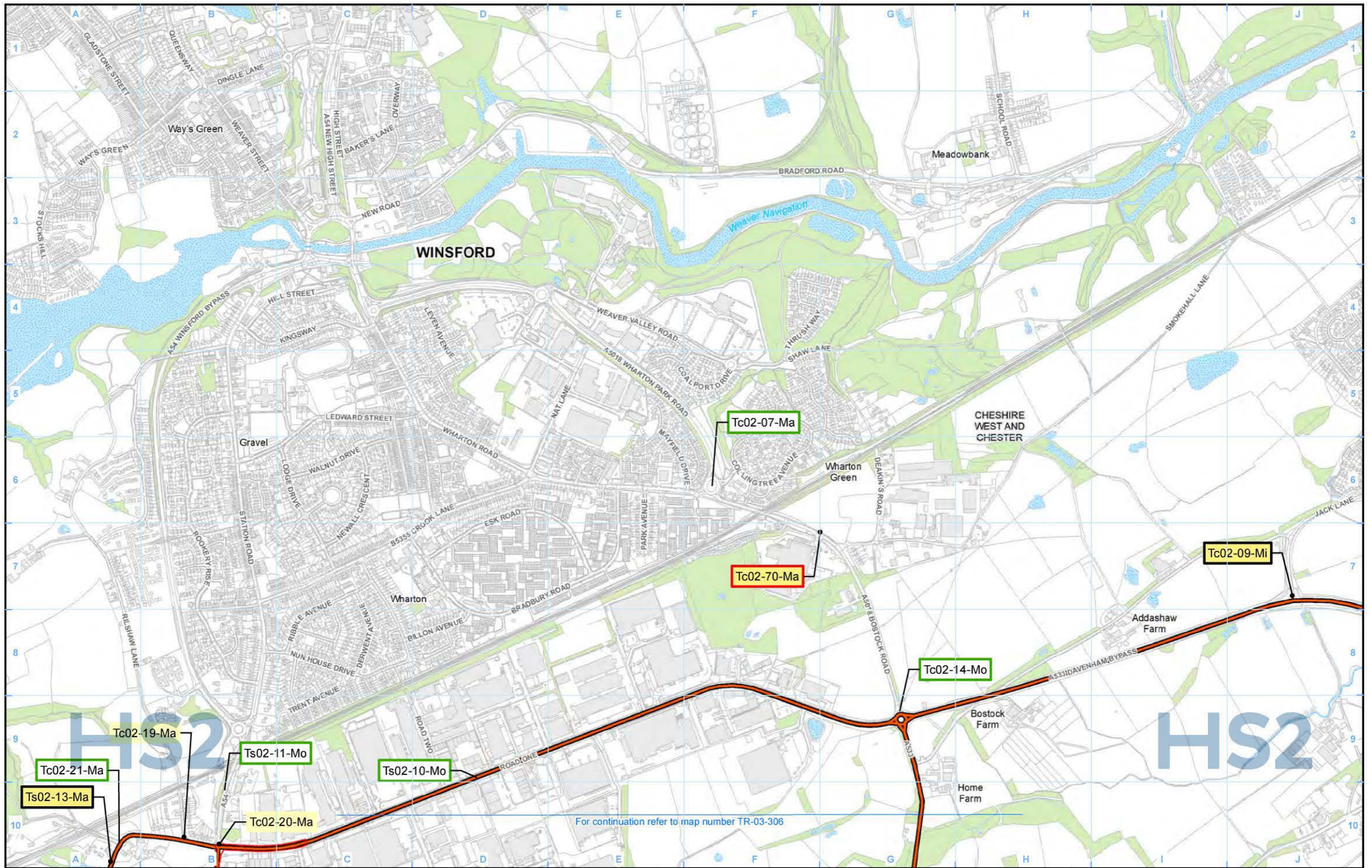
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Date: 26/04/22



- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-306-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gram

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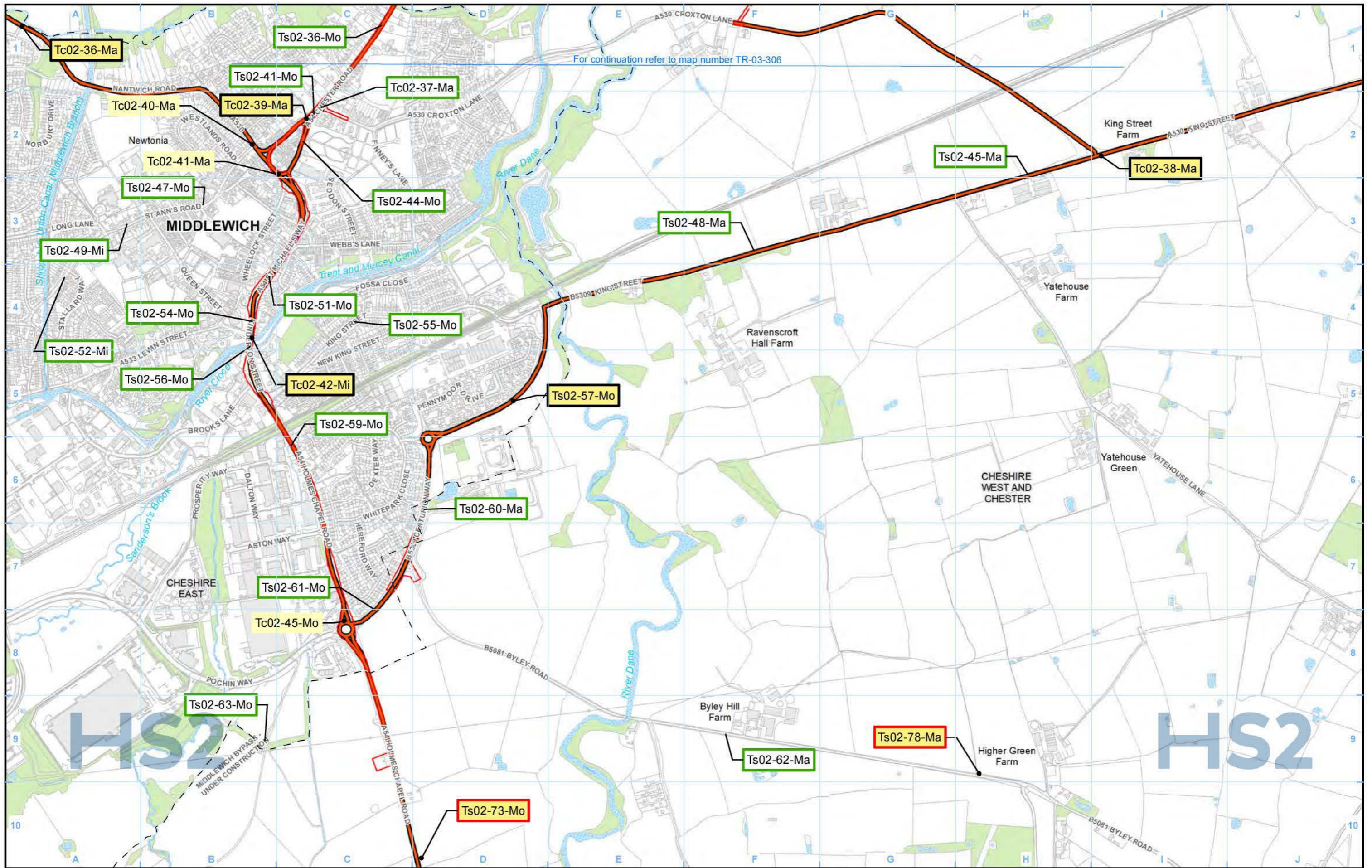
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002897-P01

Date: 26/04/22

Scale at A3: 1:10,000

Metres



For continuation refer to map number TR-03-306

Legend

Construction significant effects unchanged from the SES/AP:

	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

Construction significant effects arising from the SES/AP:

	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-306-R1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA02: Wimboldsley to Lostock Gtalam	

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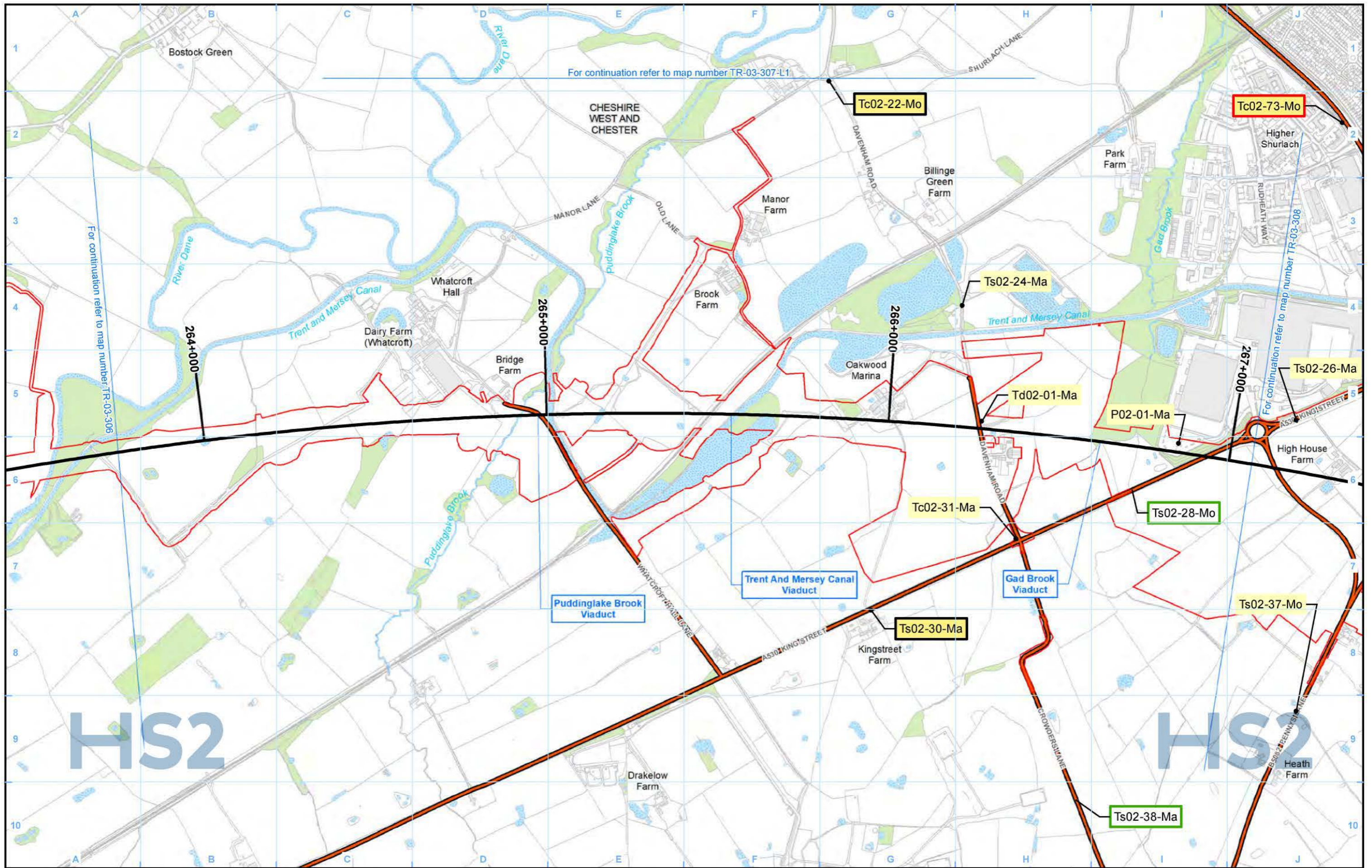
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Scale at A3: 1:10,000

Metres

Date: 26/04/22



- 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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Construction significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-307

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

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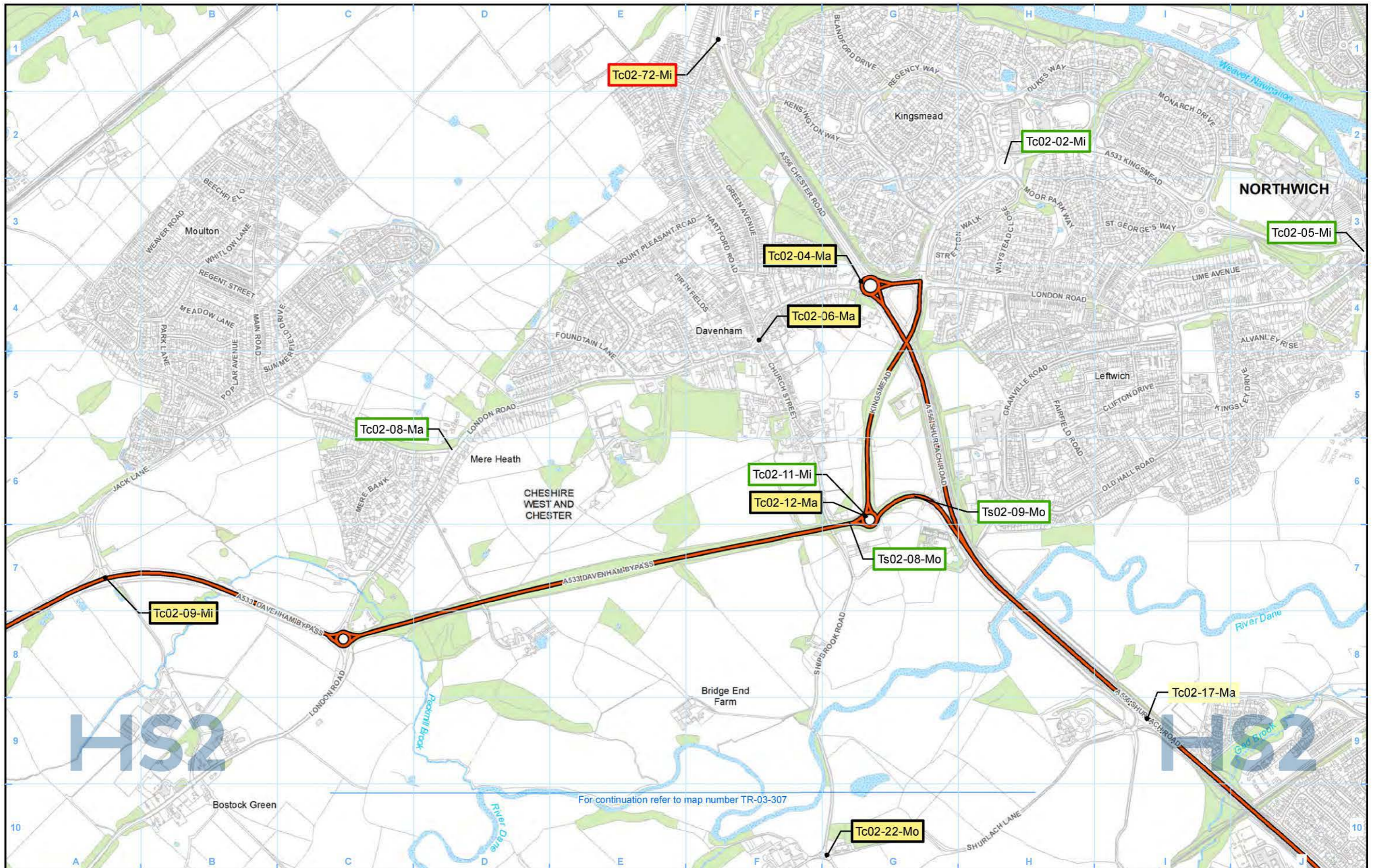
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Date: 26/04/22

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Metres



Legend

Route in tunnel	Watercourse	Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:	For full legend please refer to TR-03 legend page.	
Route on surface	Water body			Adverse, permanent	Adverse, permanent
Depot, station, headhouse or portal building	Woodland	Adverse, temporary	Adverse, temporary		
Land potentially required during construction	Construction traffic routes	Beneficial, temporary	Beneficial, temporary		
Community area boundary		Beneficial, permanent	Beneficial, permanent		
County boundary					
District/Borough boundary					

Map Number: TR-03-307-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gram

HS2

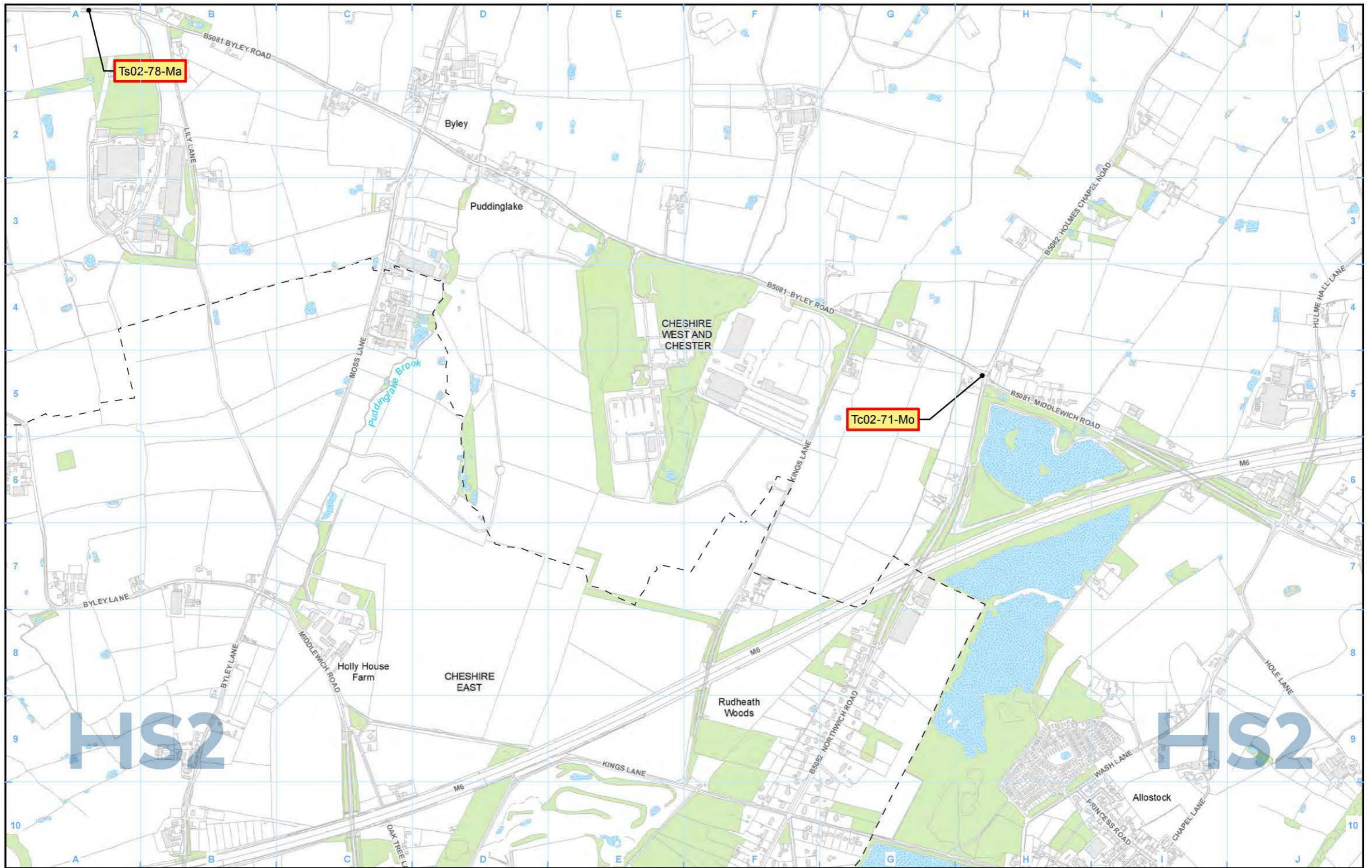
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Legend

Construction significant effects unchanged from the SES/AP:

	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

Construction significant effects arising from the SES/AP:

	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-307-R1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA02: Wimboldsley to Lostock Gralam	

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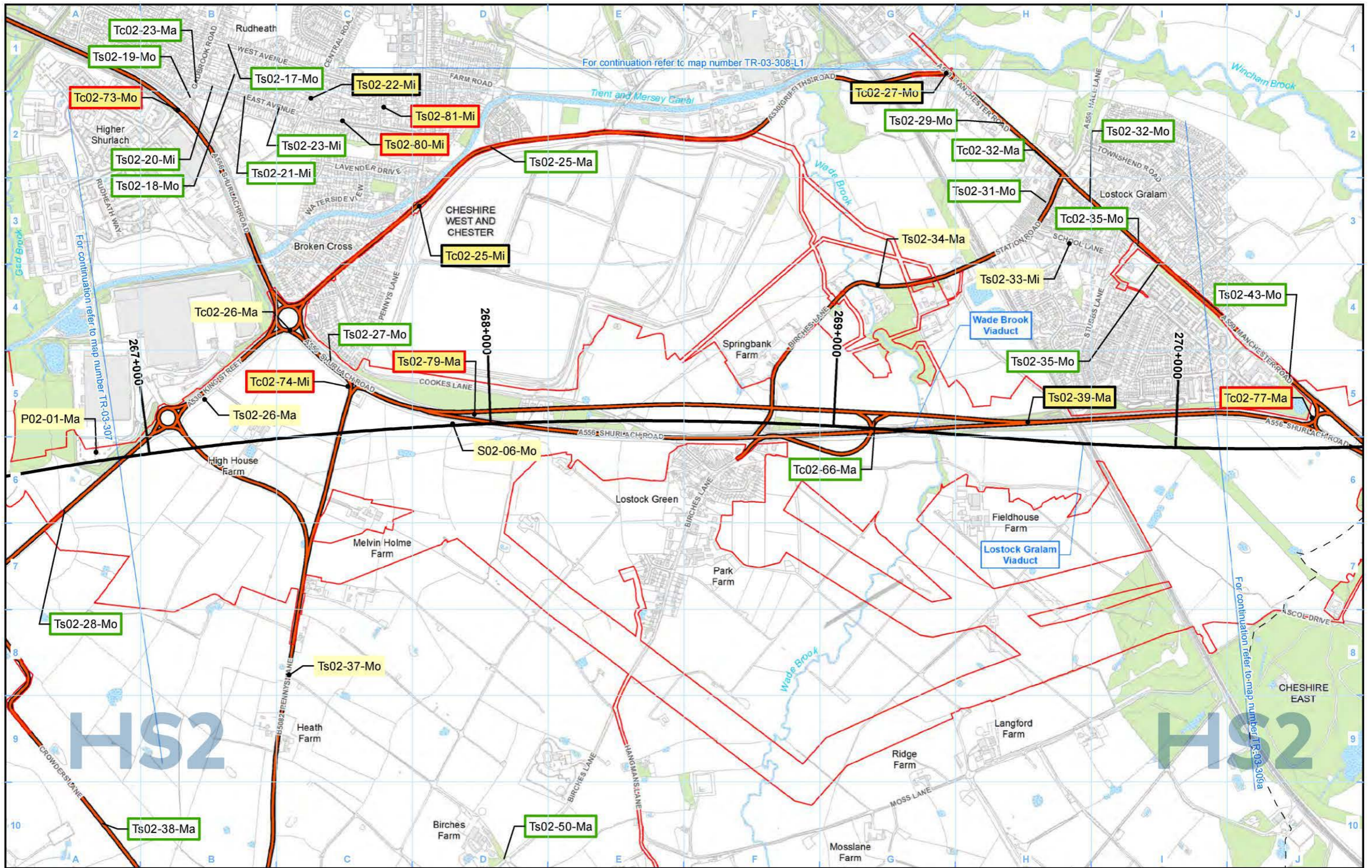
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Date: 26/04/22



For continuation refer to map number TR-03-308-L1

For continuation refer to map number TR-03-308a

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-308

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

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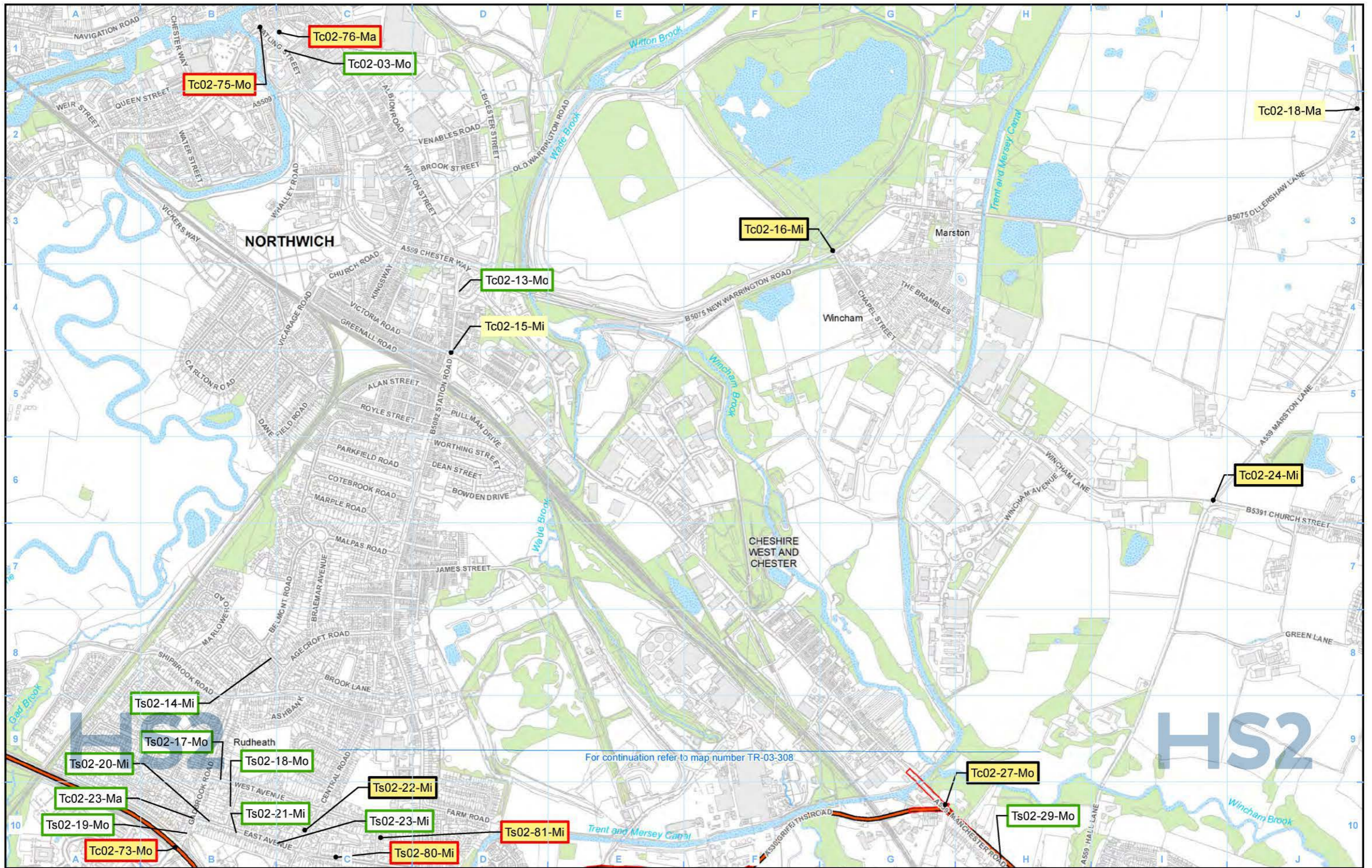
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Legend

	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
	Construction traffic routes

Construction significant effects unchanged from the SES/AP:	
	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

Construction significant effects arising from the SES/AP:	
	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-308-L1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA02: Wimboldsley to Lostock Gram	

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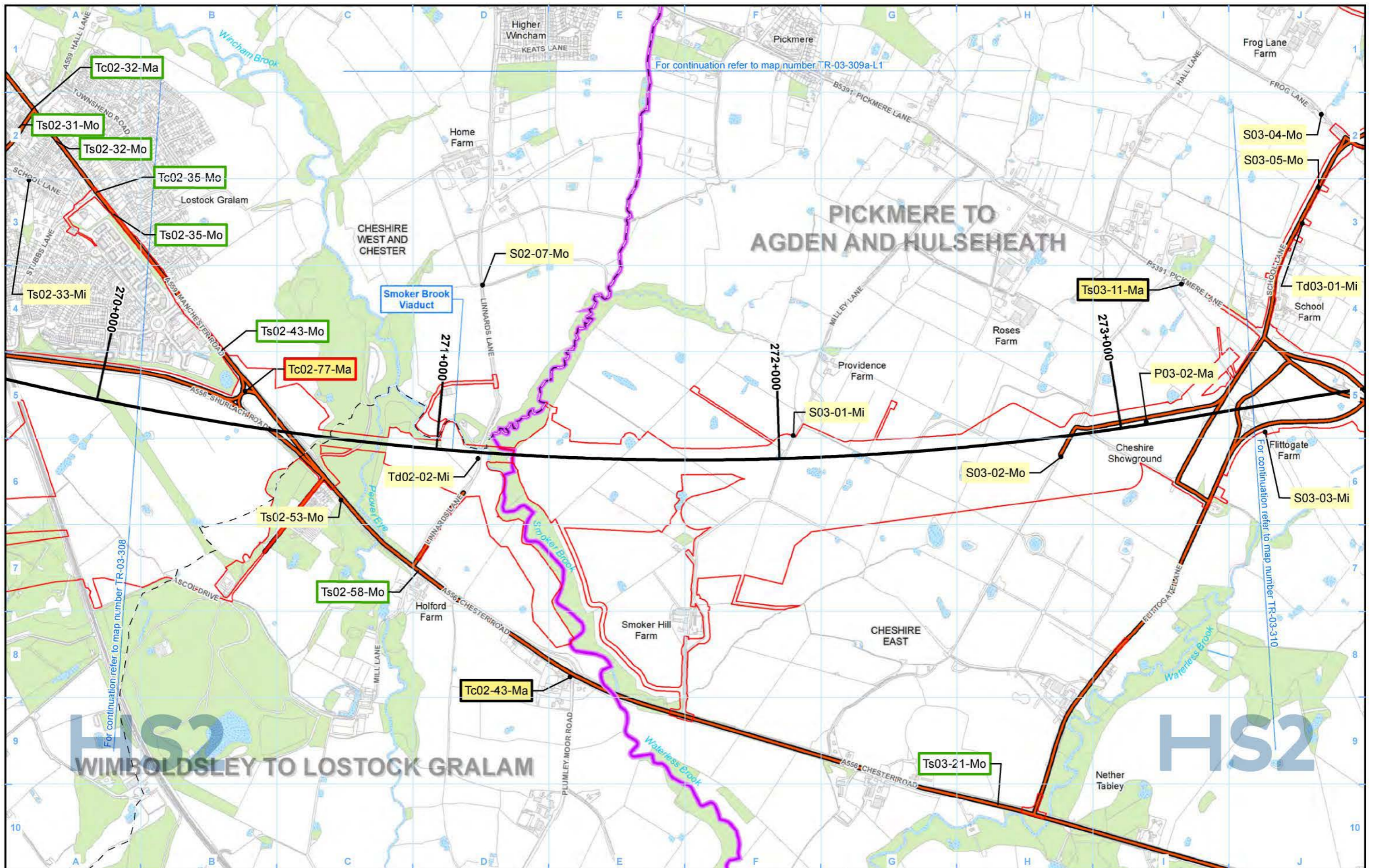
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-309a

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

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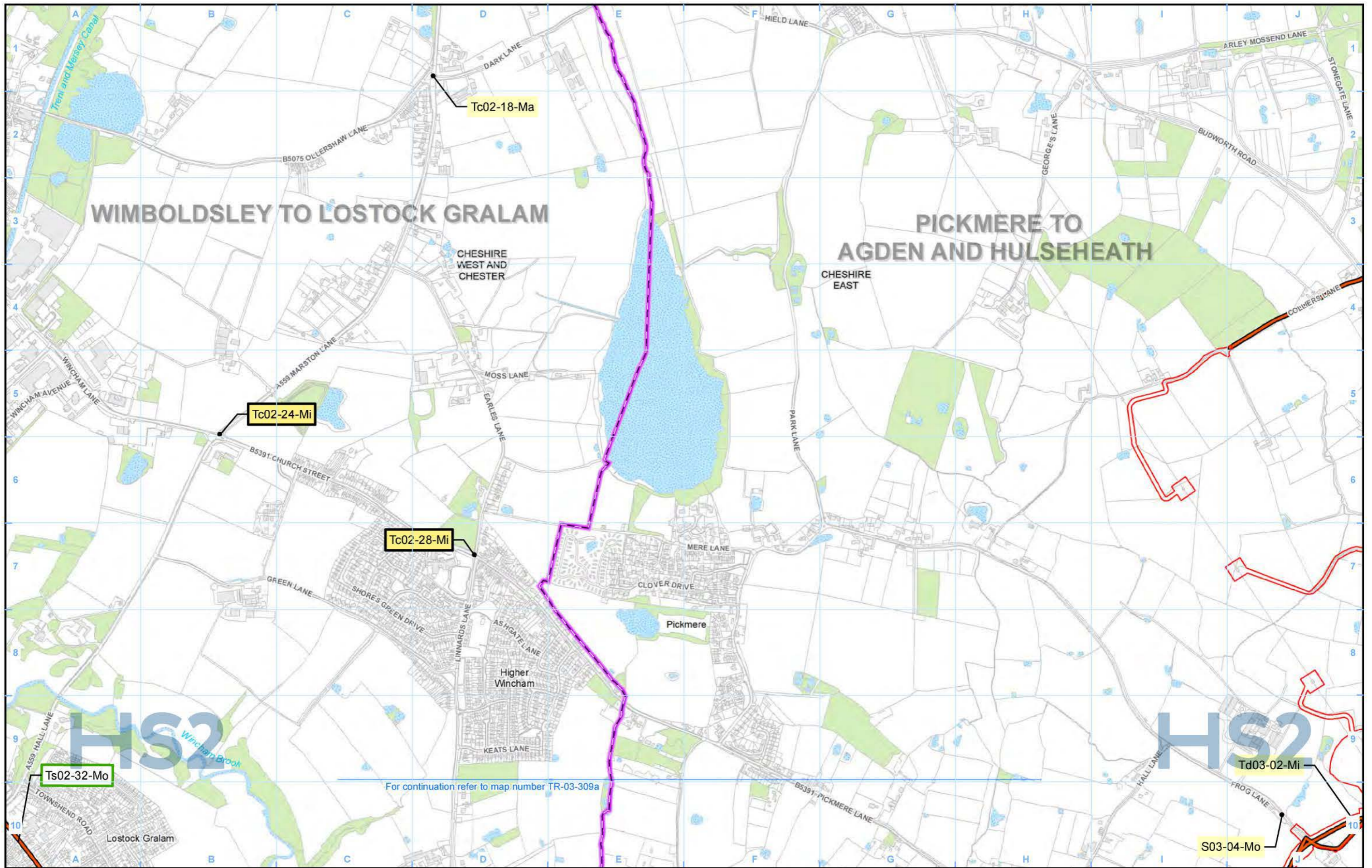
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WIMBOLDSLEY TO LOSTOCK GRALAM

PICKMERE TO AGDEN AND HULSEHEATH

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
- Construction traffic routes

Construction significant effects unchanged from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

Construction significant effects arising from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-309a-L1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA02: Wimboldsley to Lostock Gralam	

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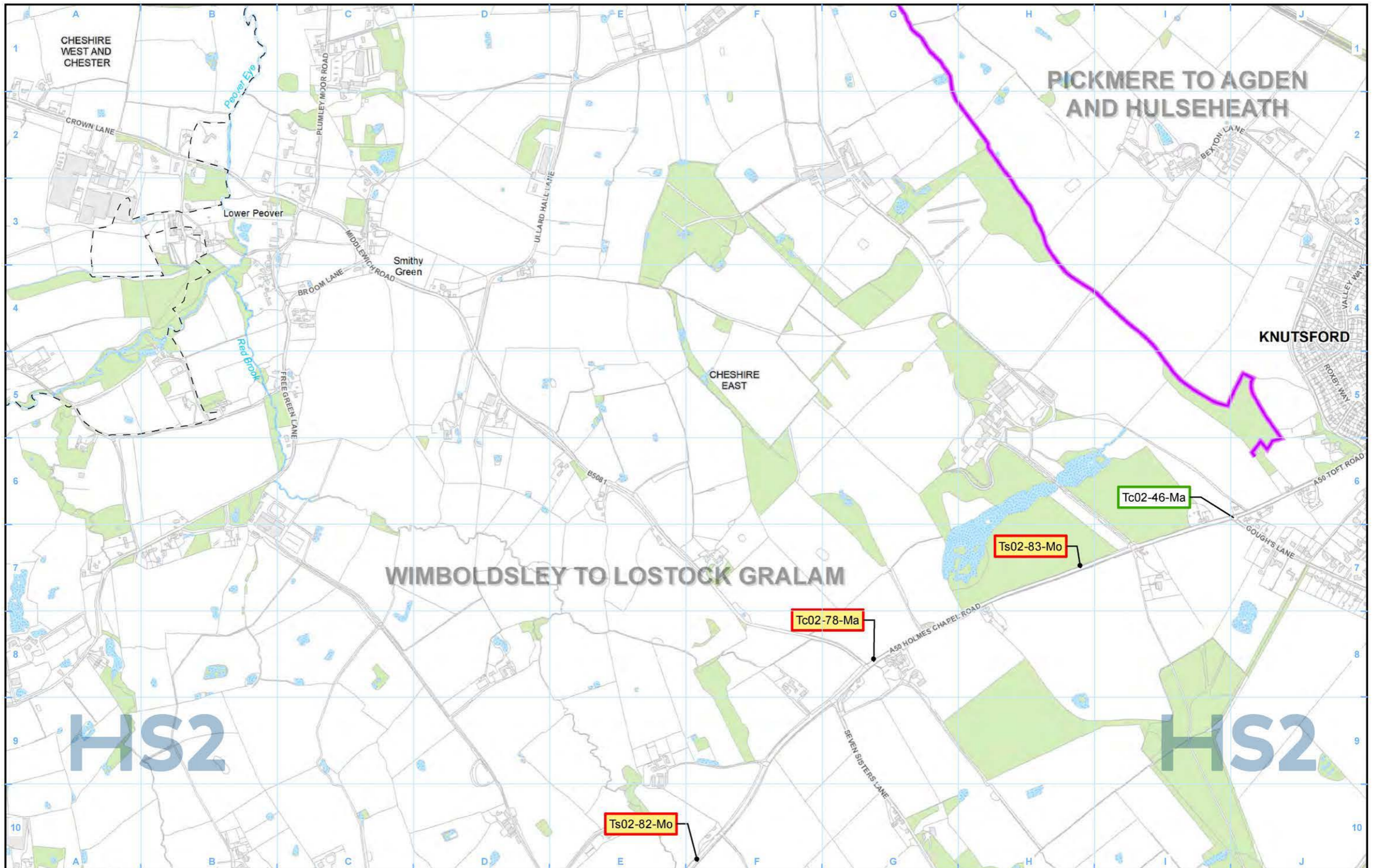
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For continuation refer to map number TR-03-309a



- 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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-309a-R1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA02: Wimboldsley to Lostock Gralam	

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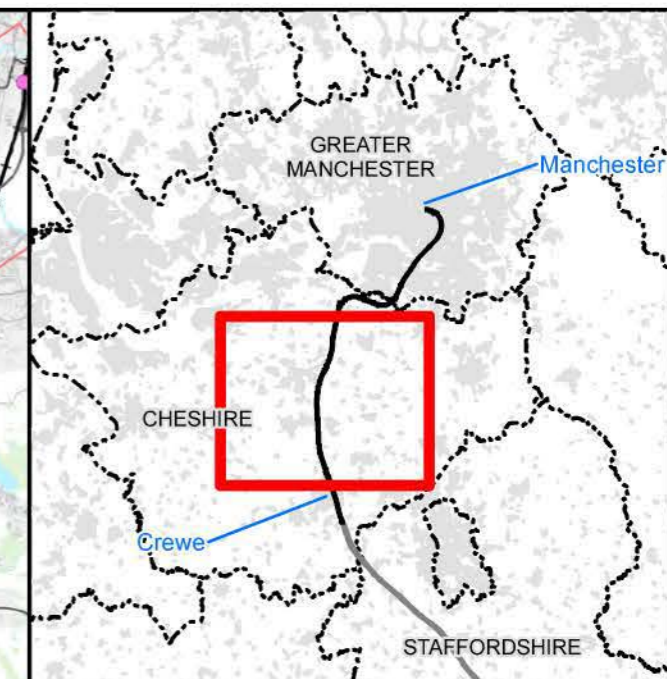
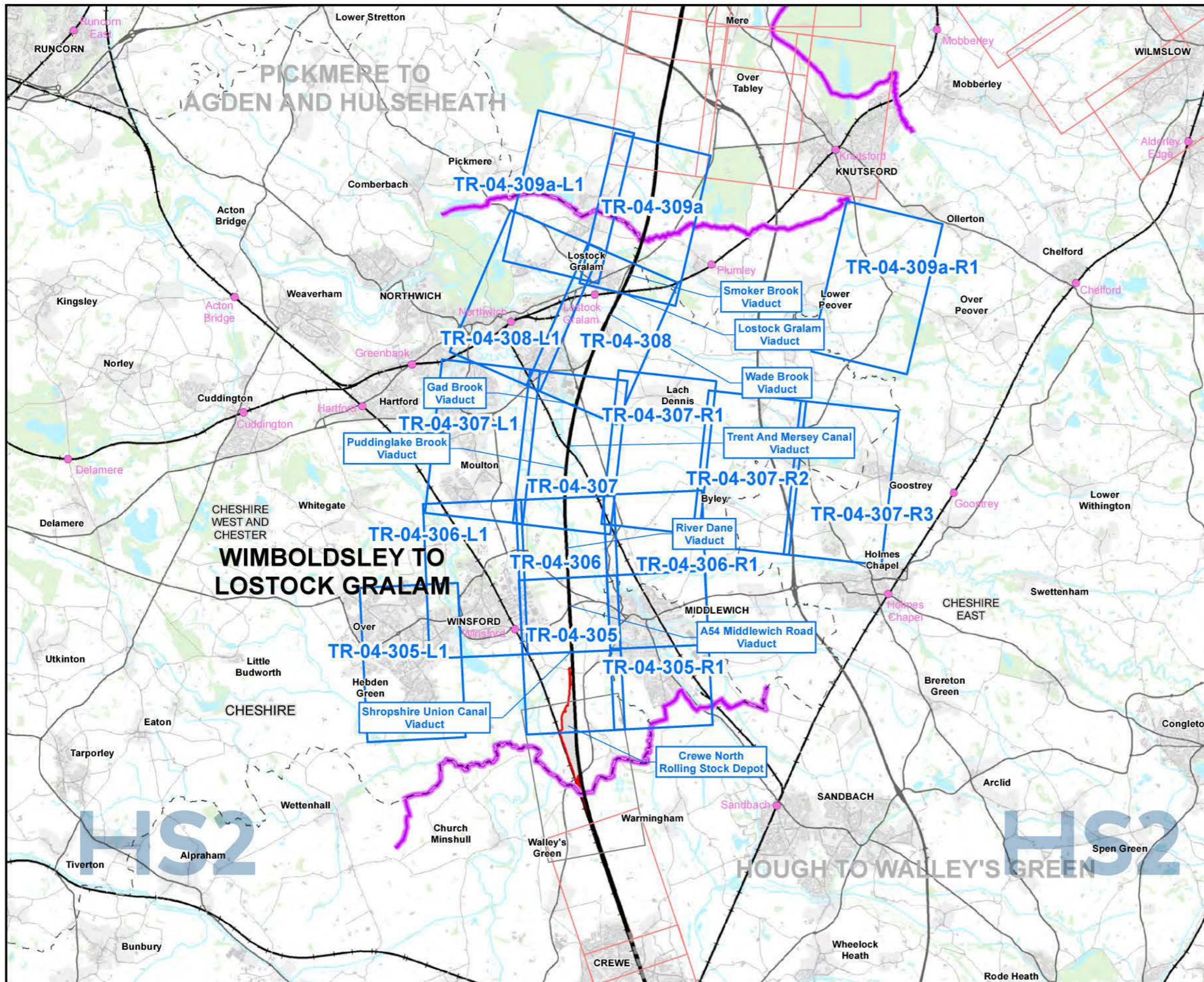
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Metres

Date: 26/04/22

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Map Series Information:

This map series identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2038 (Opening Year) and 2051 (Design Year).

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 included in this community area with no amendment
- Map sheets not included in this community area

Map Number	TR-04-INDEX-MA02
Map Name	Index Map of: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES Community Area MA02: Wimboldsley to Lostock Gralam

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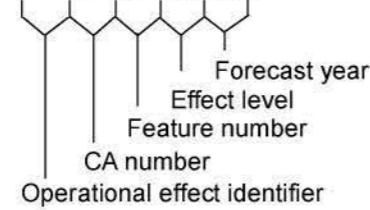
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002225-P01 Date: 22/04/22

Significant effect label:

Significant effect reference:

PT01-01-Mi-38



Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast year:

- 38 - Significant effect in 2038
- 51 - Significant effect in 2051
- Missing - Significant effect in both forecast years

Significant effects identified in the main ES for 2046 that are unchanged in the SES and AP assessments are now relabelled as 2051 to reflect the change in forecast year.

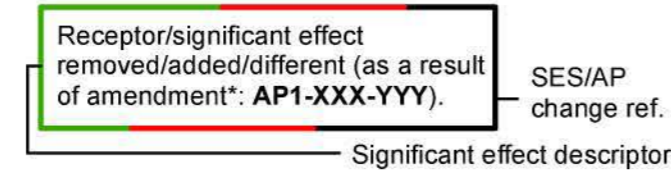
Where a significant effect is added or changed in one or both forecast years resulting in effects of the same type (i.e. adverse/beneficial) and level (i.e. minor/moderate/major) in the same location in both forecast years in SES/AP, the effects are labelled separately for each forecast year but have the same feature number.

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) in a given forecast year at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that in a given forecast year the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number: TR-04 - Legend

Map Name: TR-04 - Significant Residual Transport Effects Arising from Operation - SES1 and AP1 ES Legend

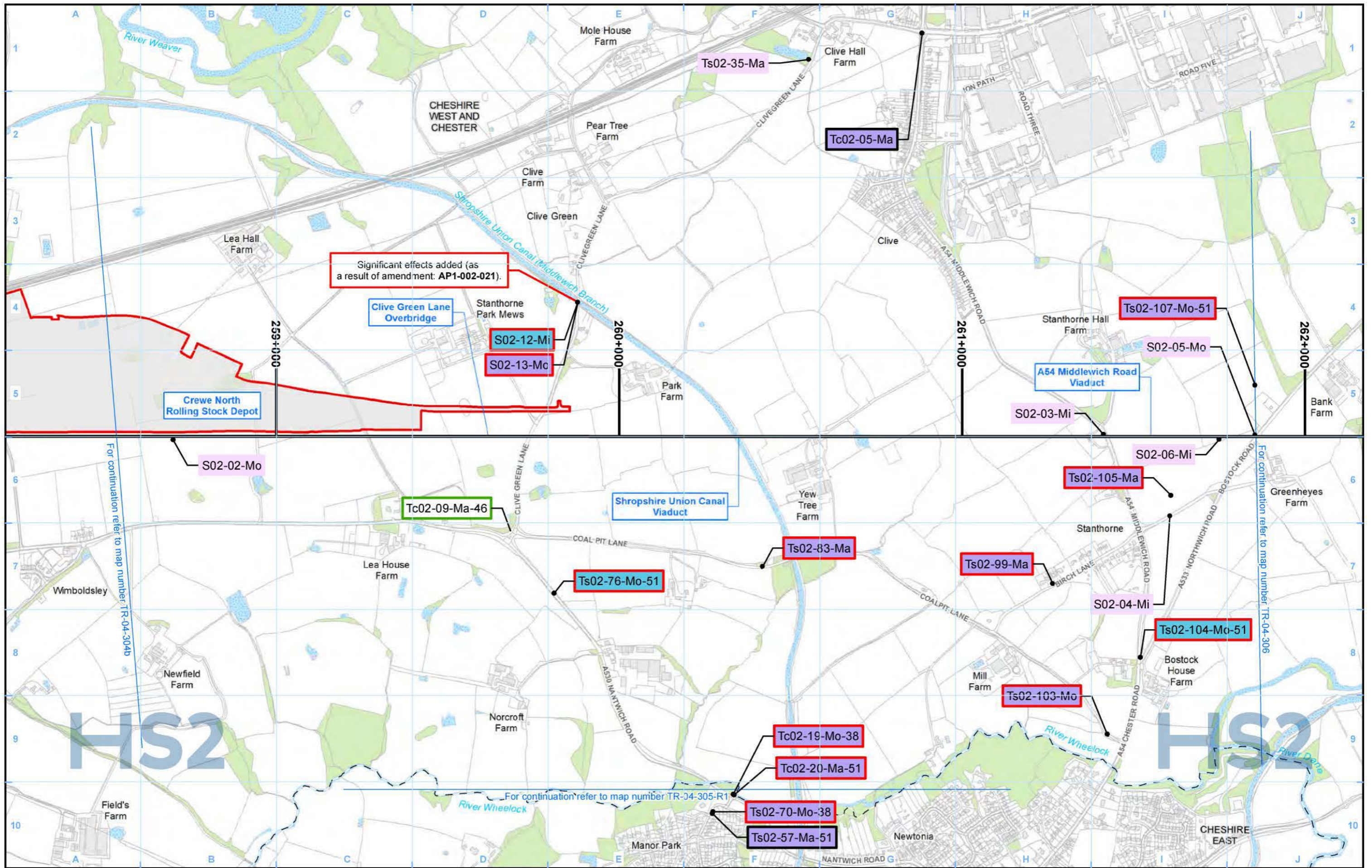


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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-305

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

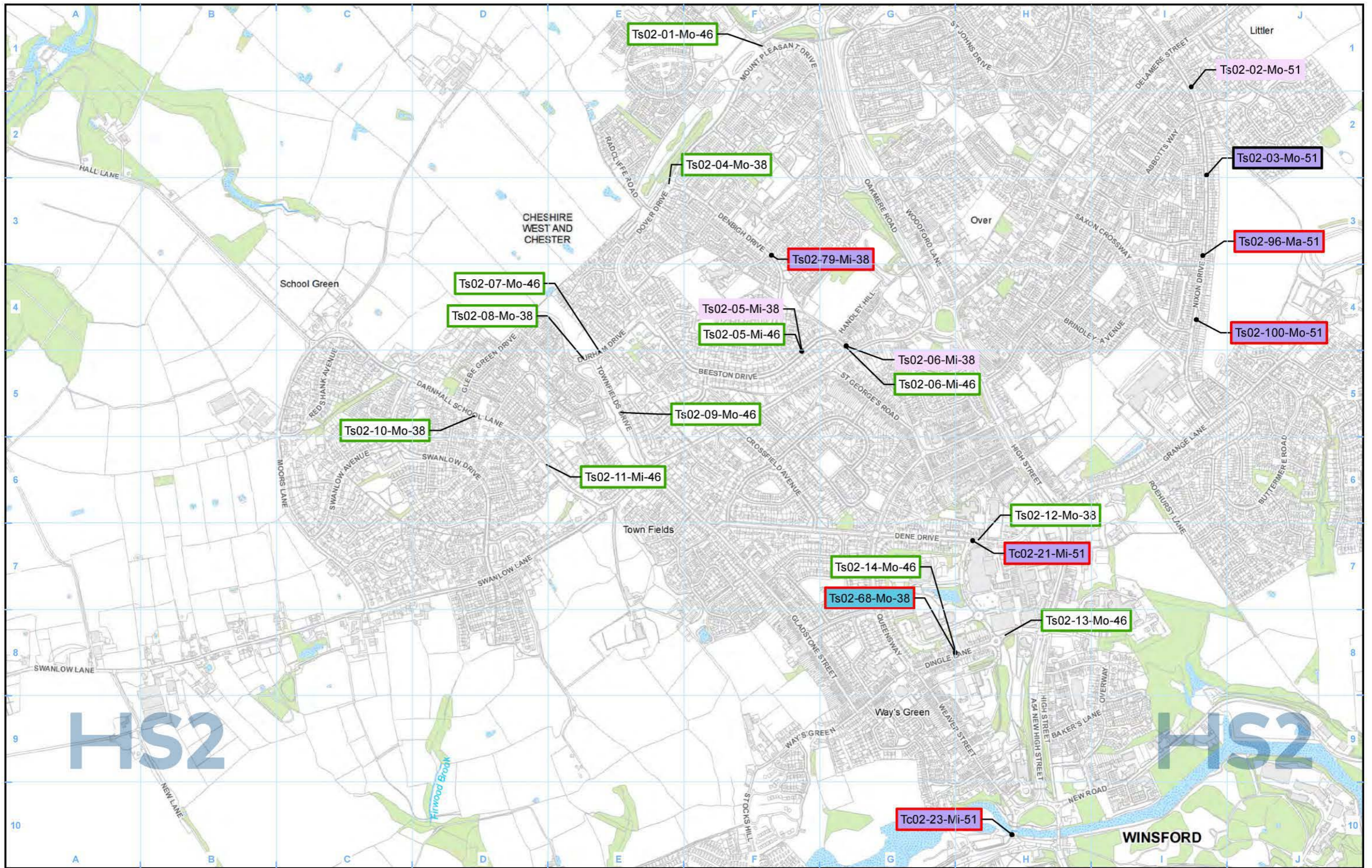
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Date: 22/04/22



Legend

	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Community area boundary		
	County boundary		
	District/Borough boundary		

Operational significant effects arising from the SES/AP:	Operational significant effects unchanged from the SES/AP:
Adverse, permanent	Adverse, permanent
Adverse, temporary	Adverse, temporary
Beneficial, temporary	Beneficial, temporary
Beneficial, permanent	Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number	TR-04-305-L1
Map Name	Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES
	Community Area MA02: Wimboldsley to Lostock Gralam

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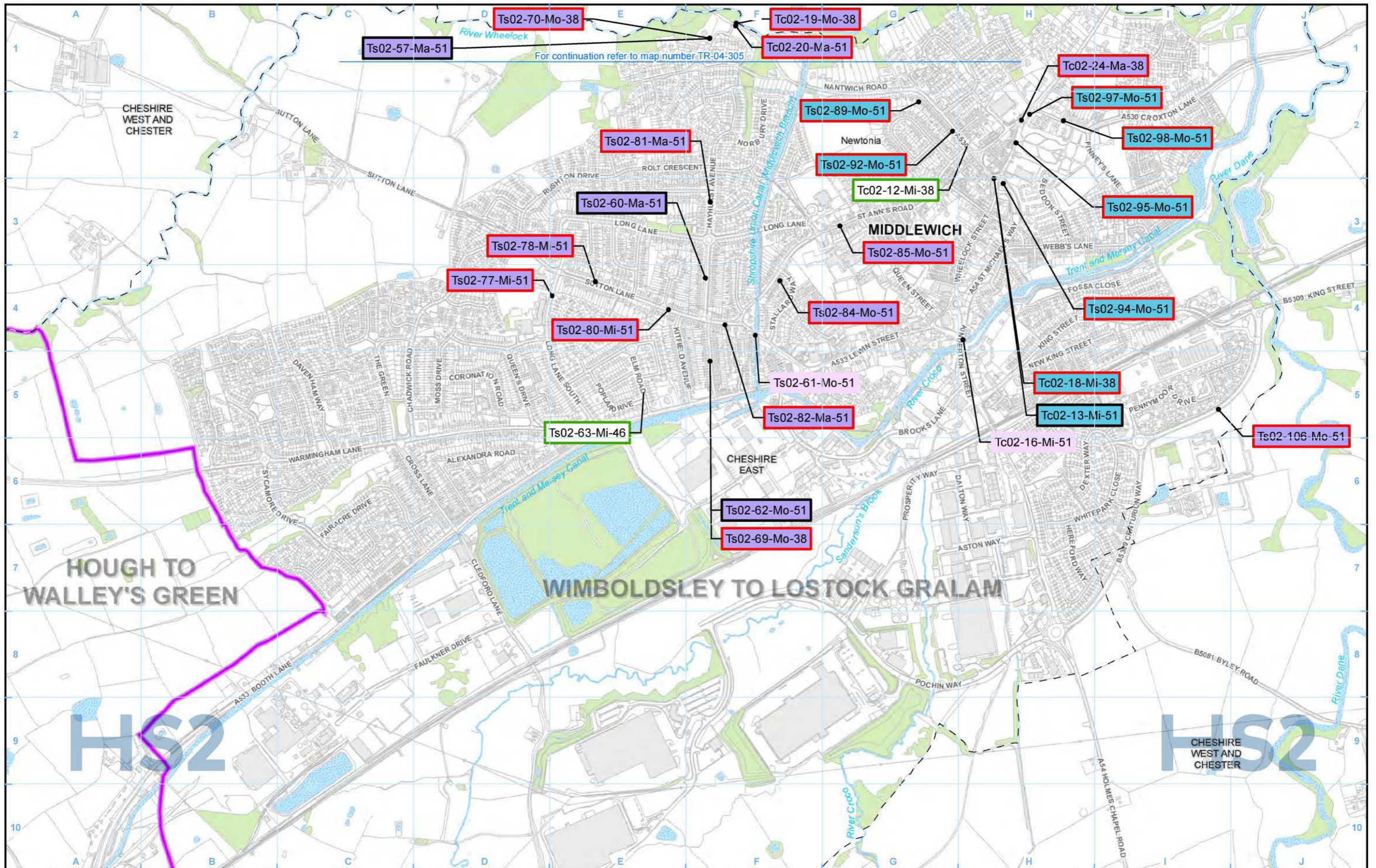
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Metres



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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-305-R1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

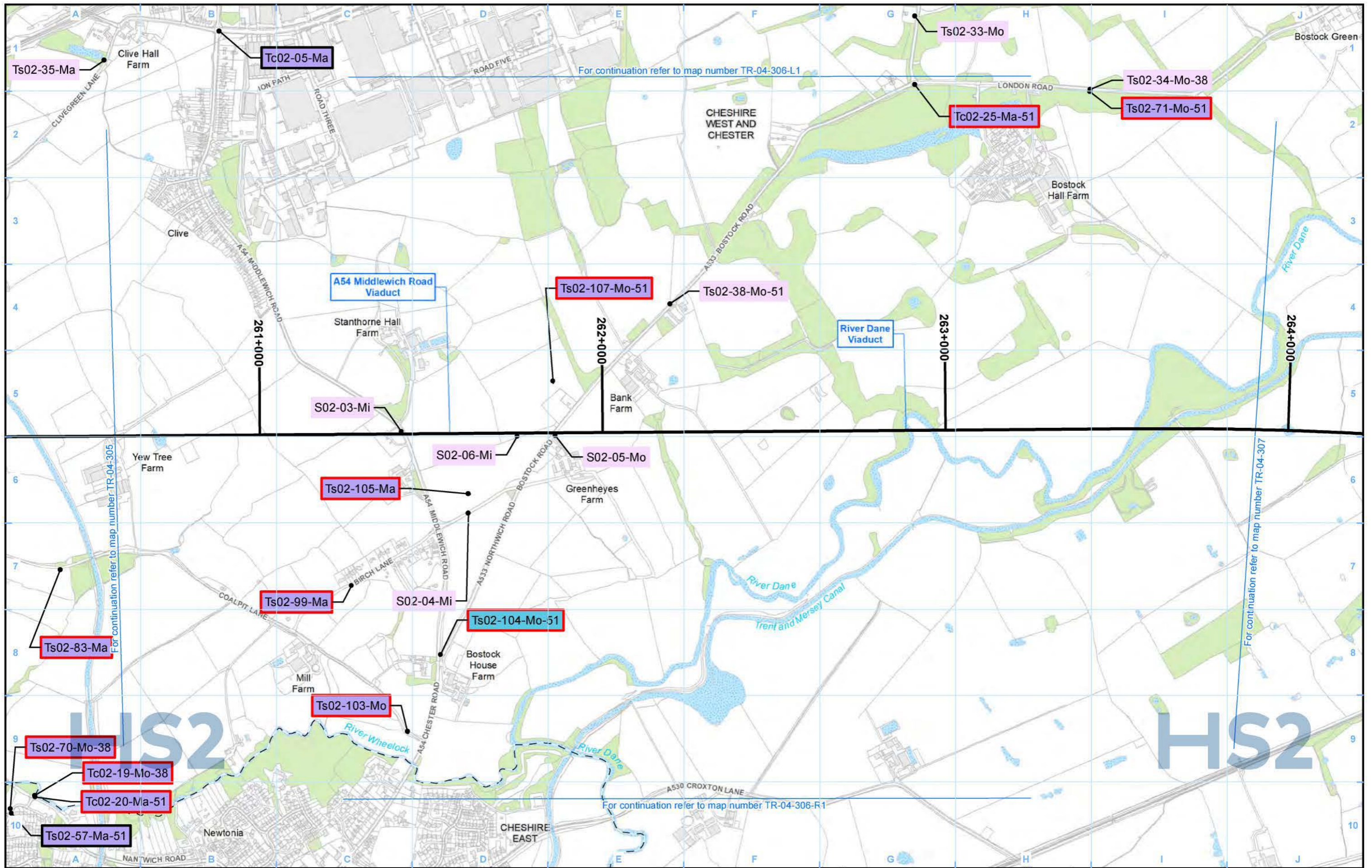
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Date: 22/04/22



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-306

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

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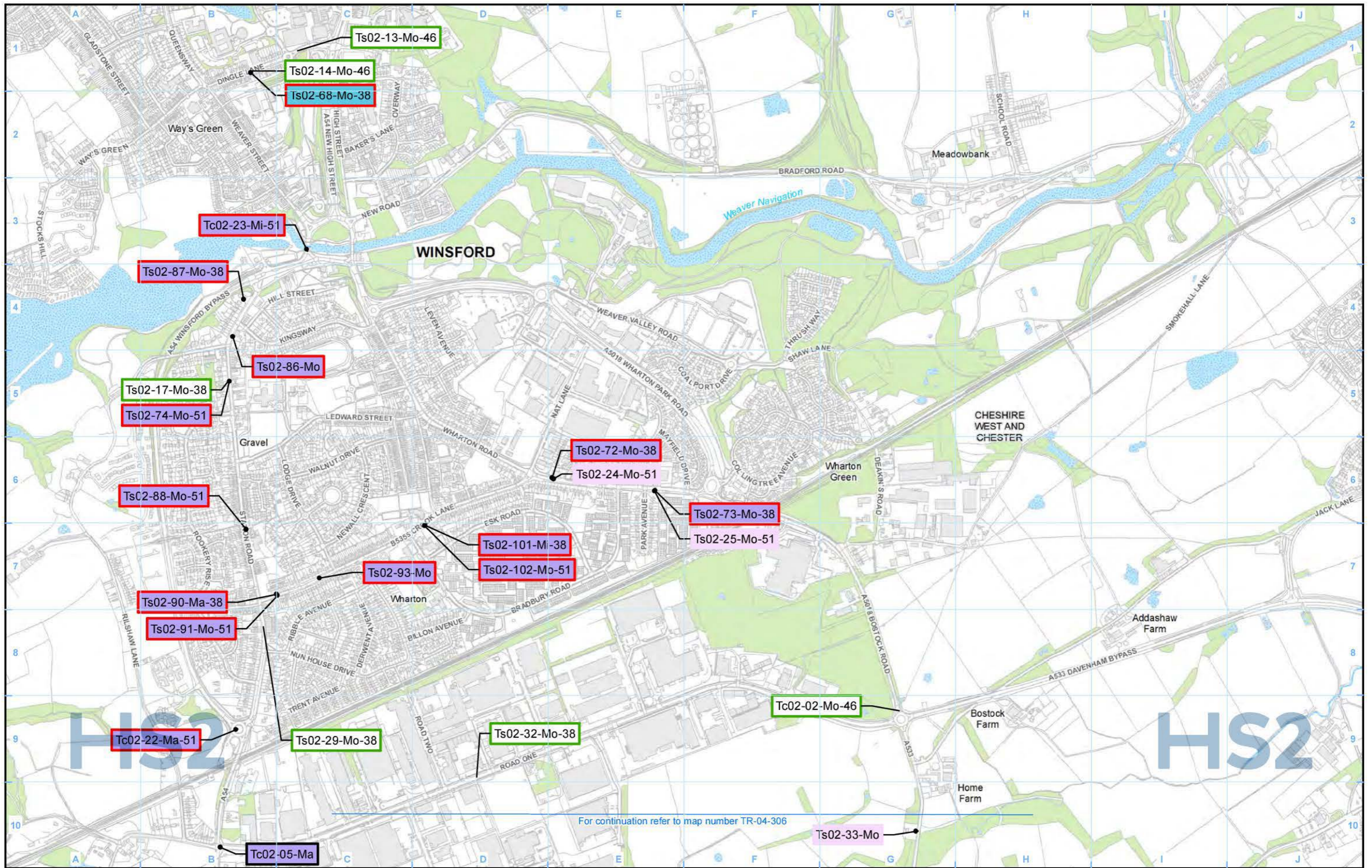
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Metres



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-306-L1
 Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES
 Community Area MA02: Wimboldsley to Lostock Gralam

HS2

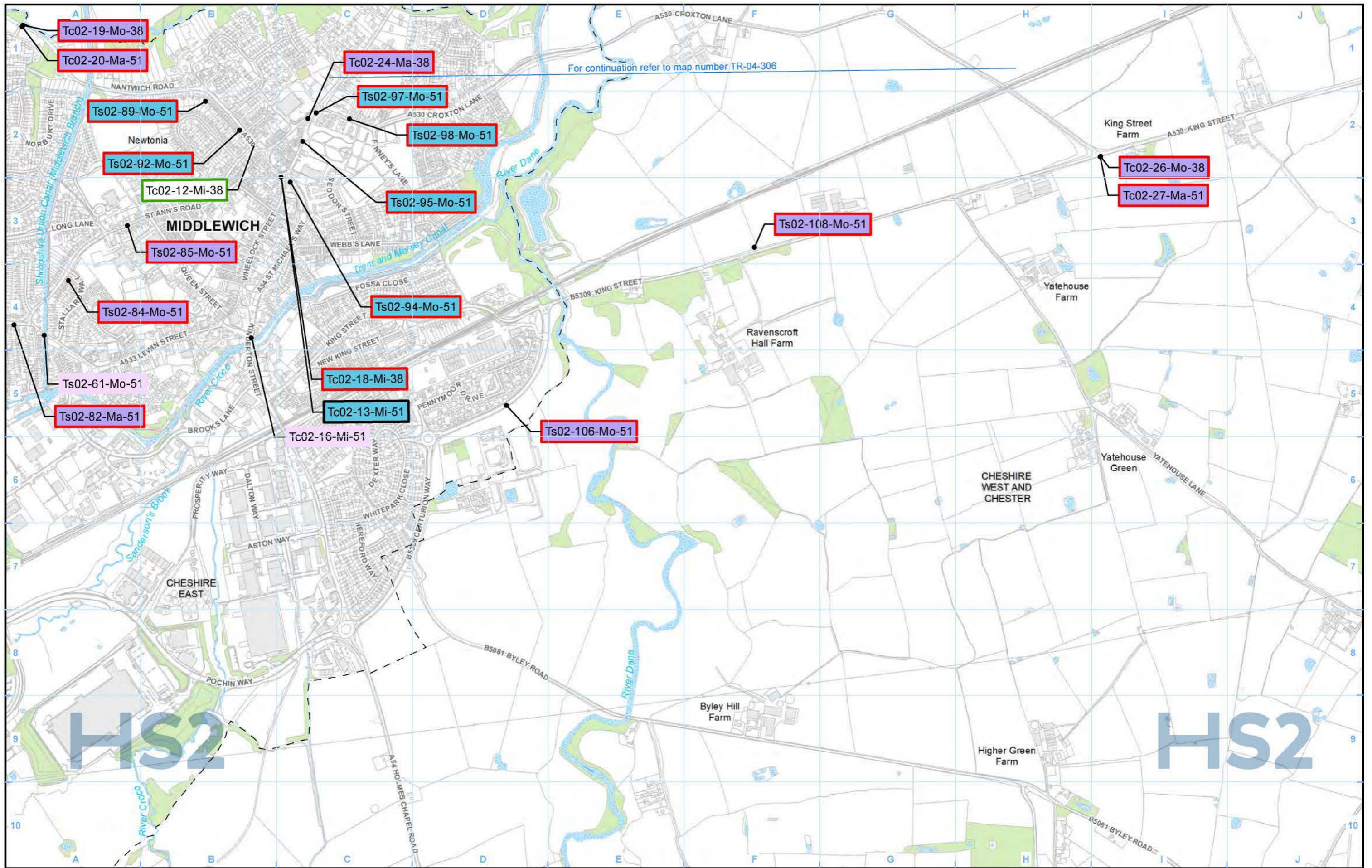
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For continuation refer to map number TR-04-306

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-306-R1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

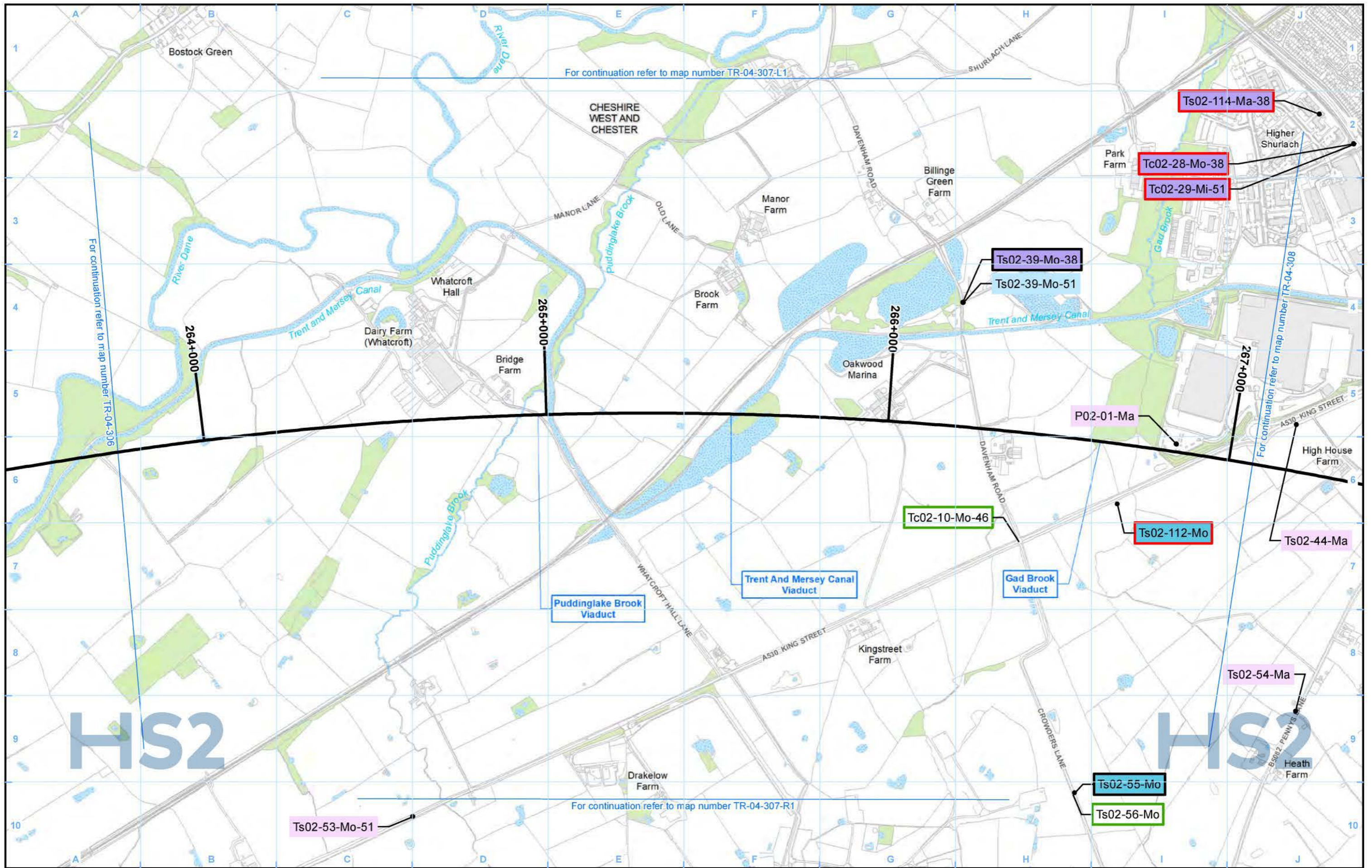
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Legend

	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Community area boundary		
	County boundary		
	District/Borough boundary		

Operational significant effects arising from the SES/AP:

	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

Operational significant effects unchanged from the SES/AP:

	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number	TR-04-307
Map Name	Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES
	Community Area MA02: Wimboldsley to Lostock Gralam

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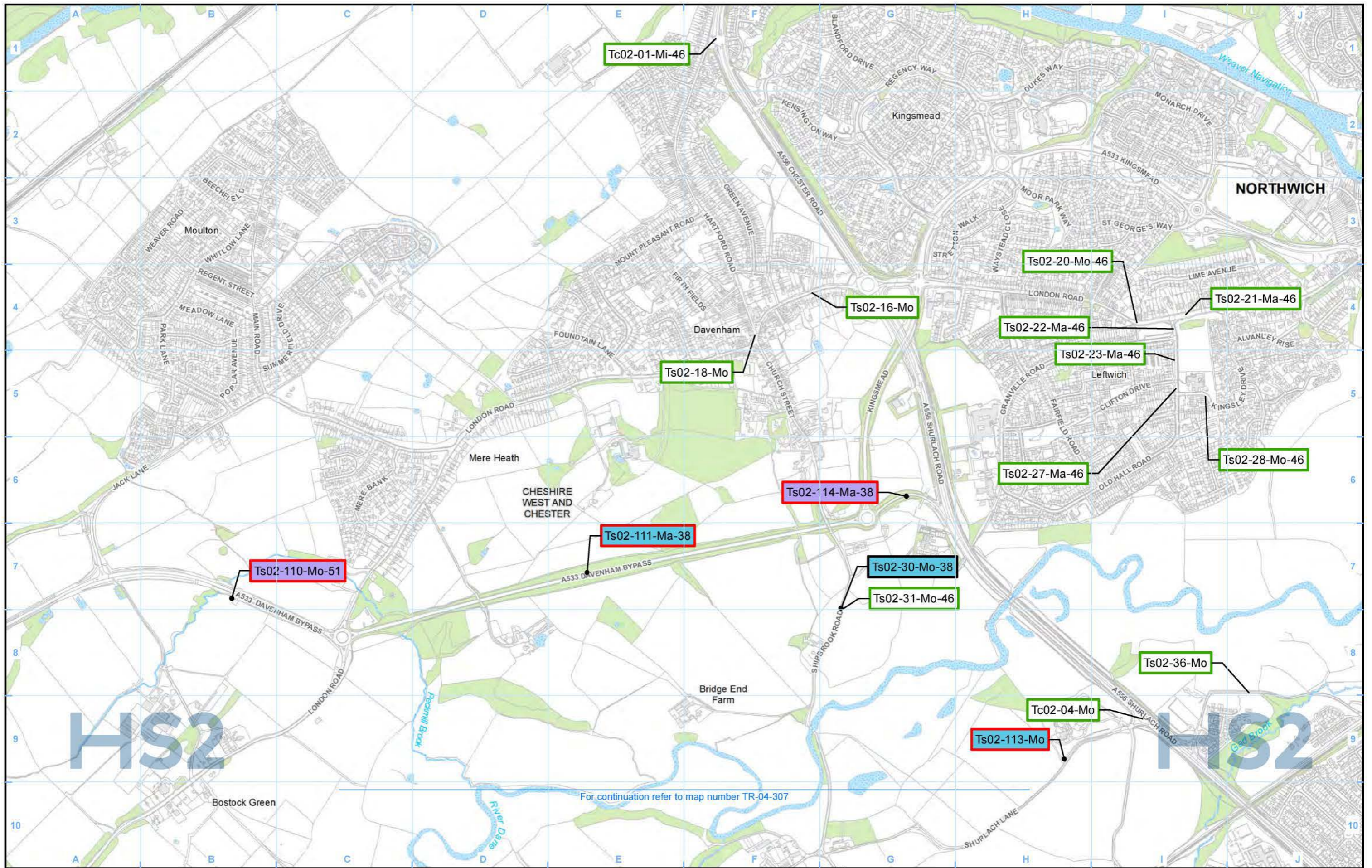
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Metres

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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational significant effects arising from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

Operational significant effects unchanged from the SES/AP:

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-307-L1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

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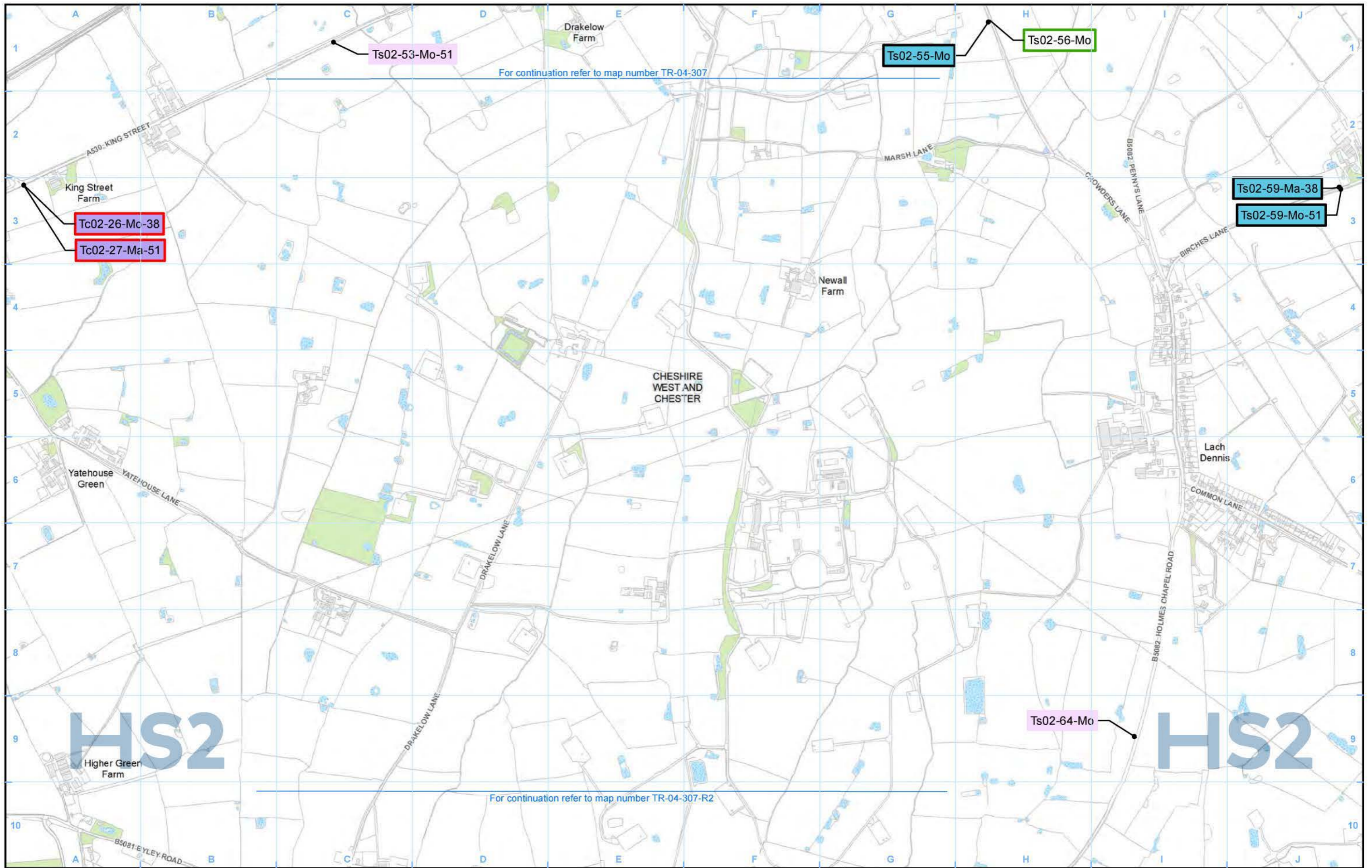
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Date: 22/04/22

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Metres



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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-307-R1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

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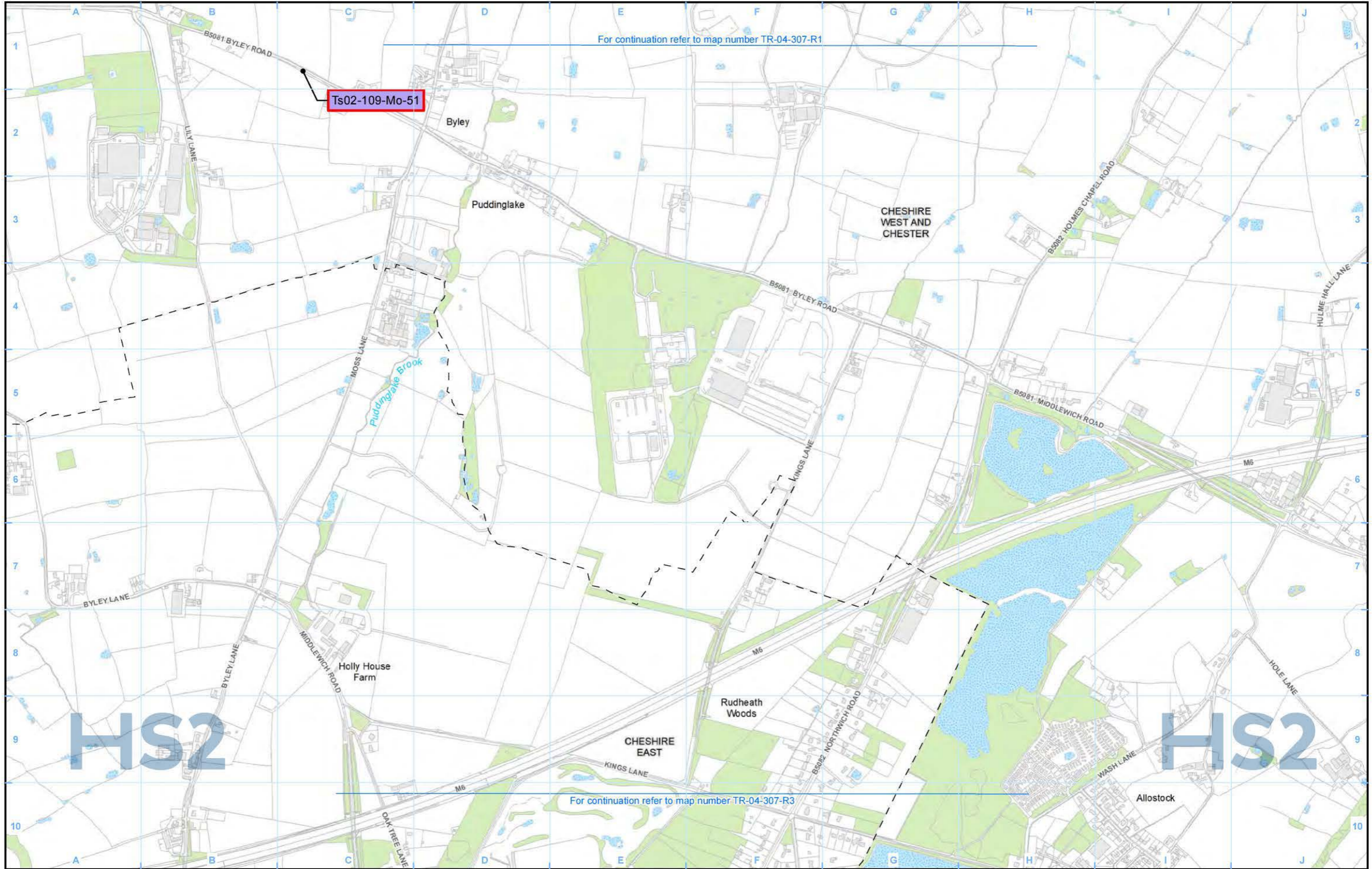
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Date: 22/04/22

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Metres



For continuation refer to map number TR-04-307-R1

For continuation refer to map number TR-04-307-R3

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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-307-R2

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

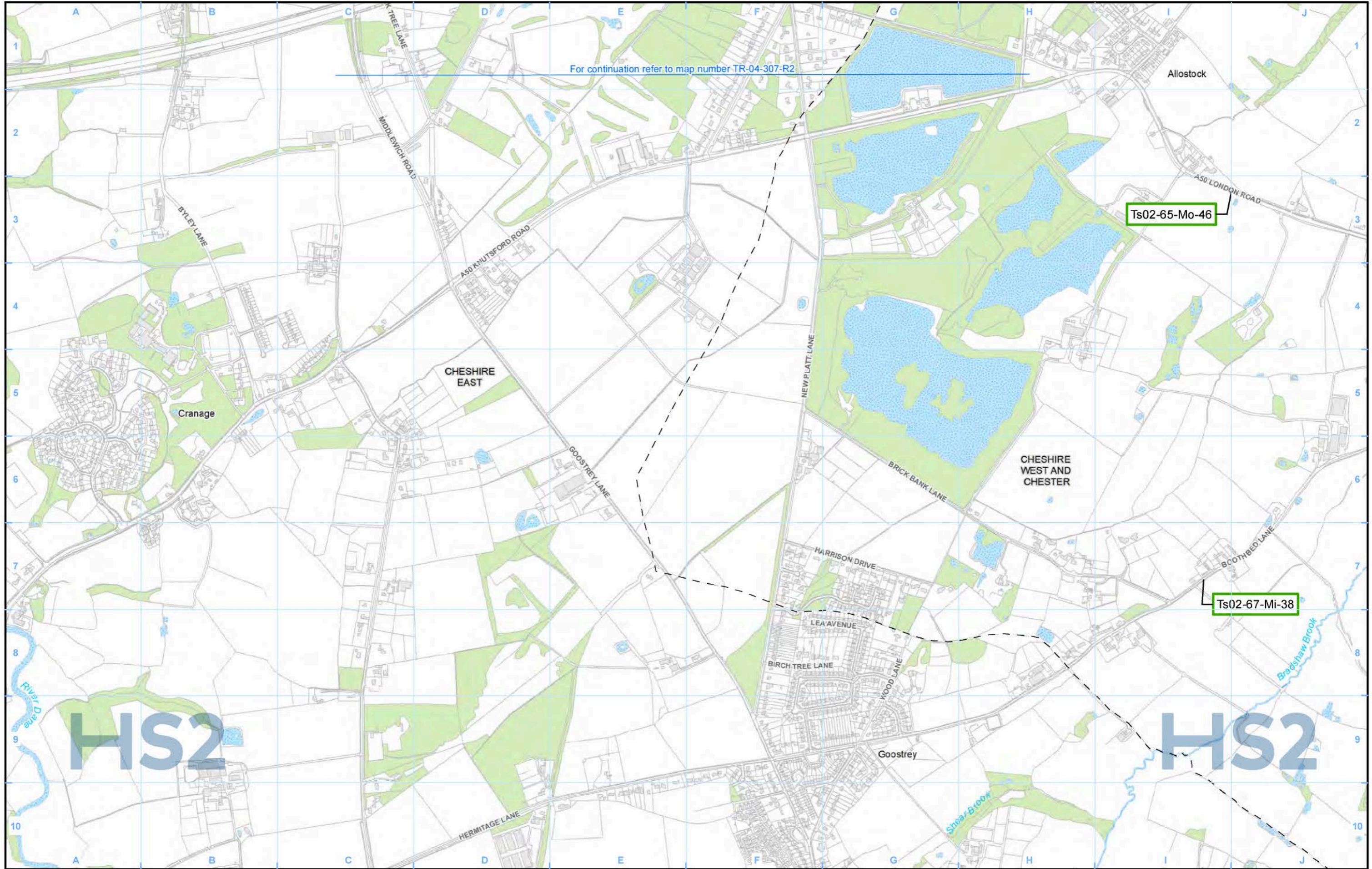
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Doc Number: 2PT24-MWJ-EV-MAP-M000-004133-P01

Scale at A3: 1:10,000

Date: 22/04/22



For continuation refer to map number TR-04-307-R2

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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-307-R3

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

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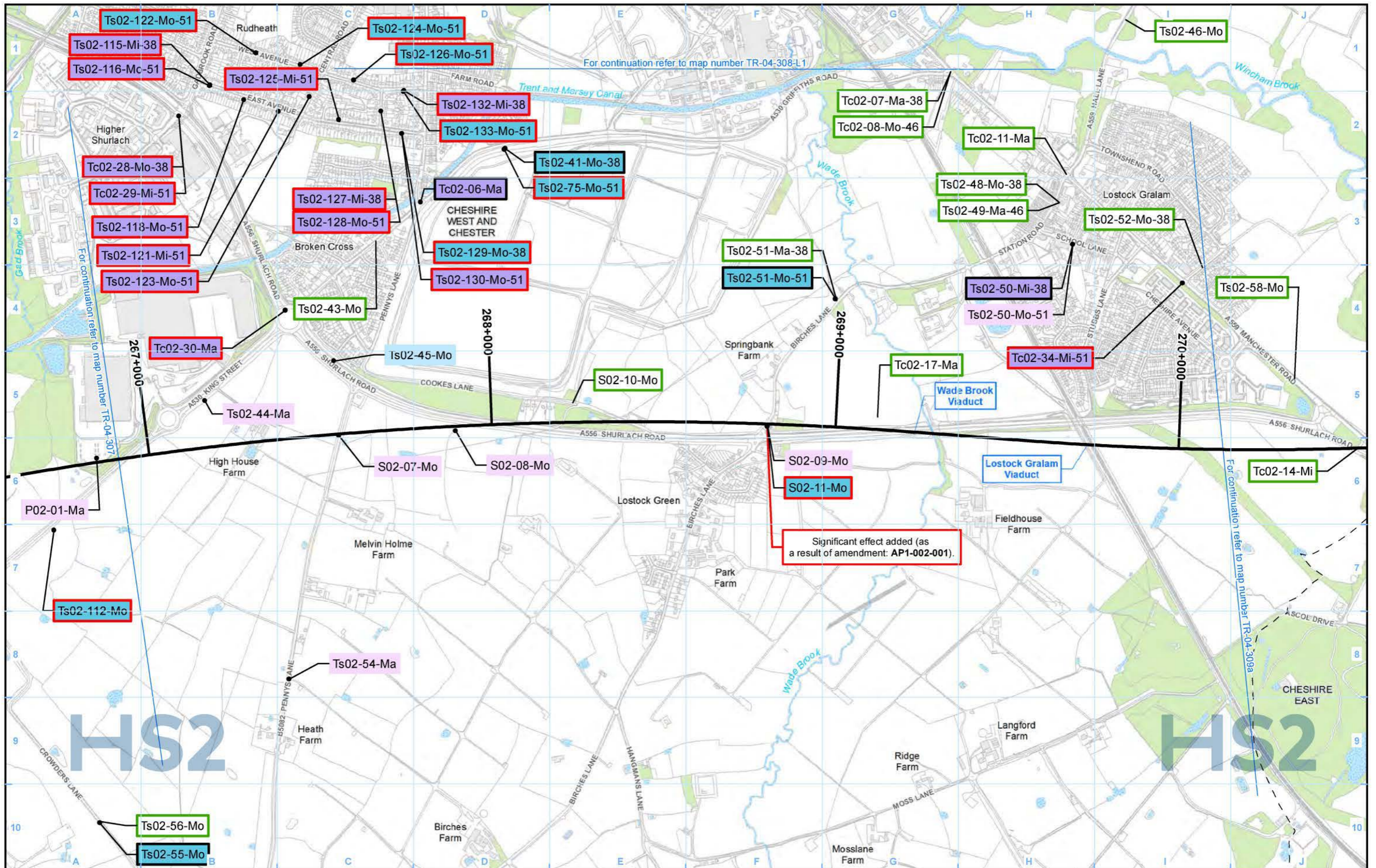
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Doc Number: 2PT24-MWJ-EV-MAP-M000-003006-P01

Date: 22/04/22

Scale at A3: 1:10,000

Metres



For continuation refer to map number TR-04-308-L1

For continuation refer to map number TR-04-309a

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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-308

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

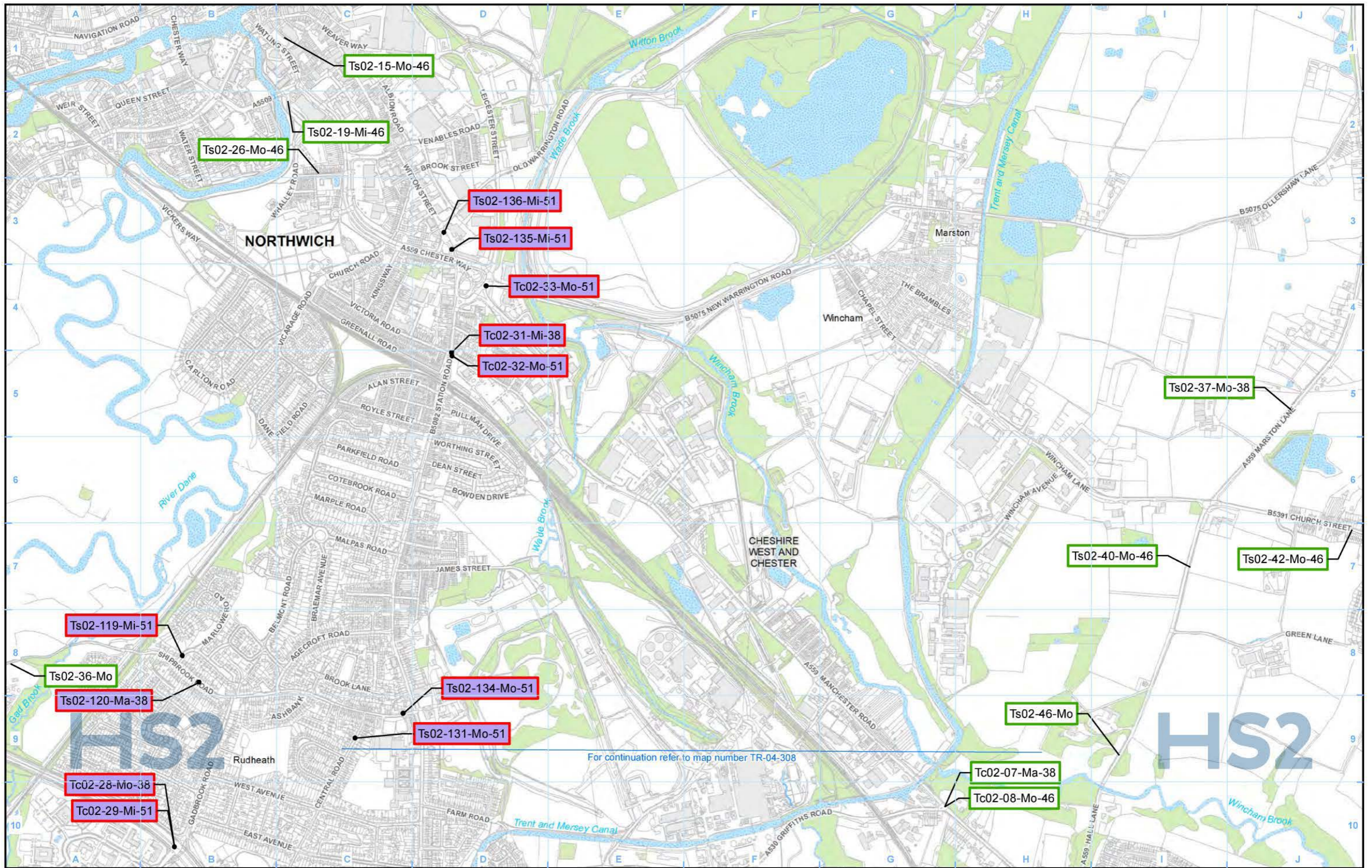
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Scale at A3: 1:10,000

Doc Number: 2PT24-MWJ-EV-MAP-M000-002197-P01

Date: 22/04/22



For continuation refer to map number TR-04-308

For full legend please refer to TR-04 legend page.

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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

Map Number: TR-04-308-L1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

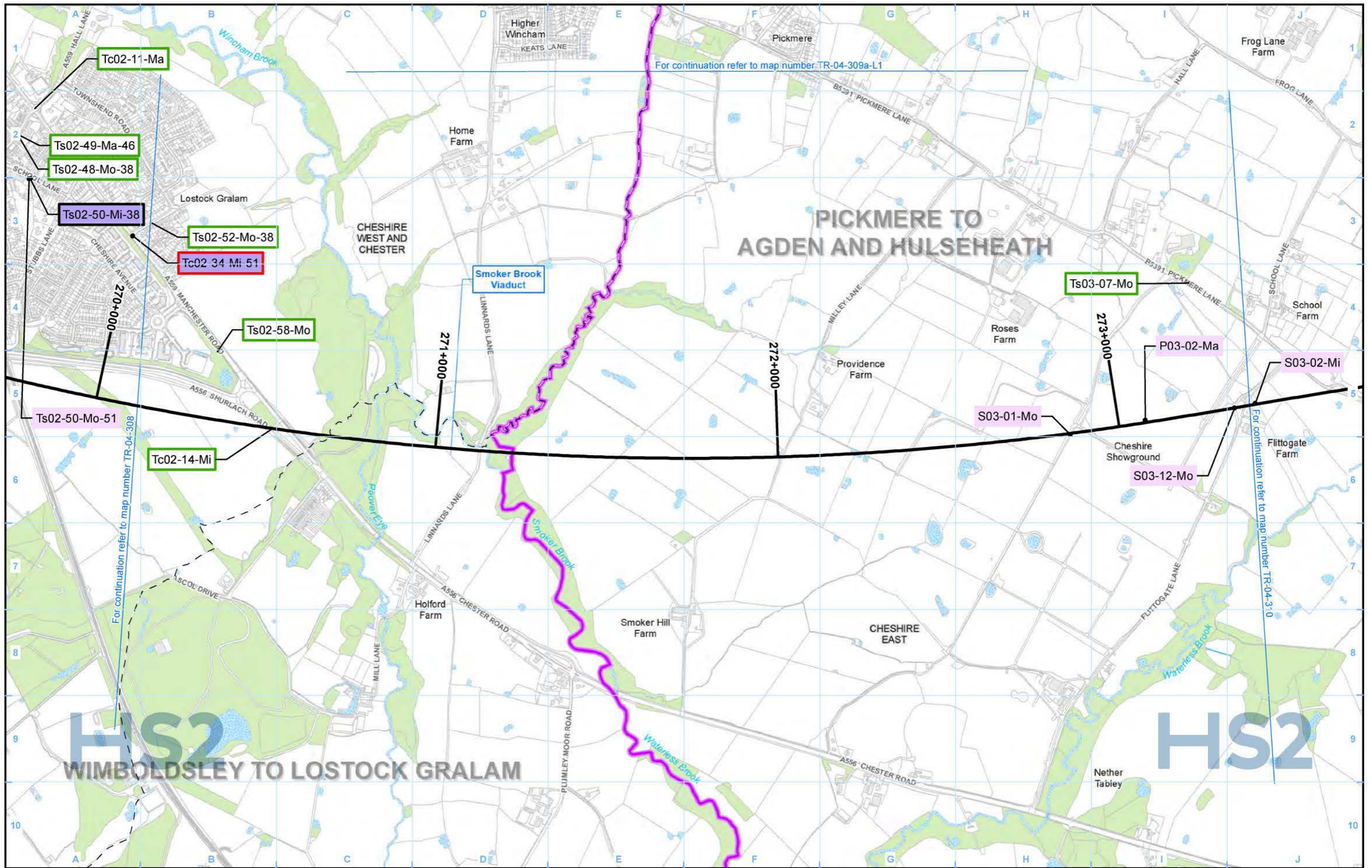
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Date: 22/04/22



For continuation refer to map number TR-04-309a-L1

For continuation refer to map number TR-04-310

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-309a

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

HS2

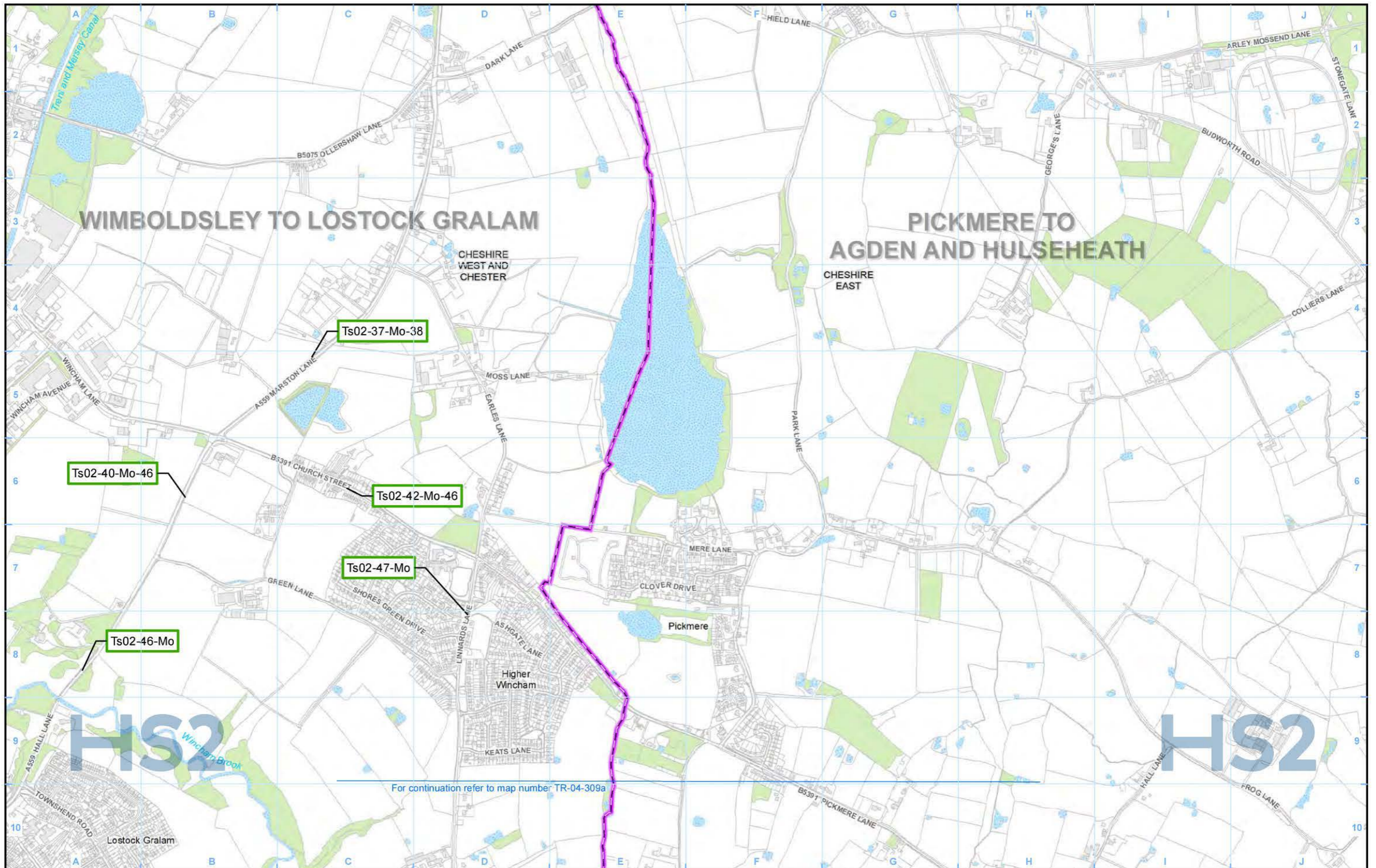
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002198-P01

Date: 22/04/22



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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-309a-L1
 Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES
 Community Area MA02: Wimboldsley to Lostock Gralam

HS2

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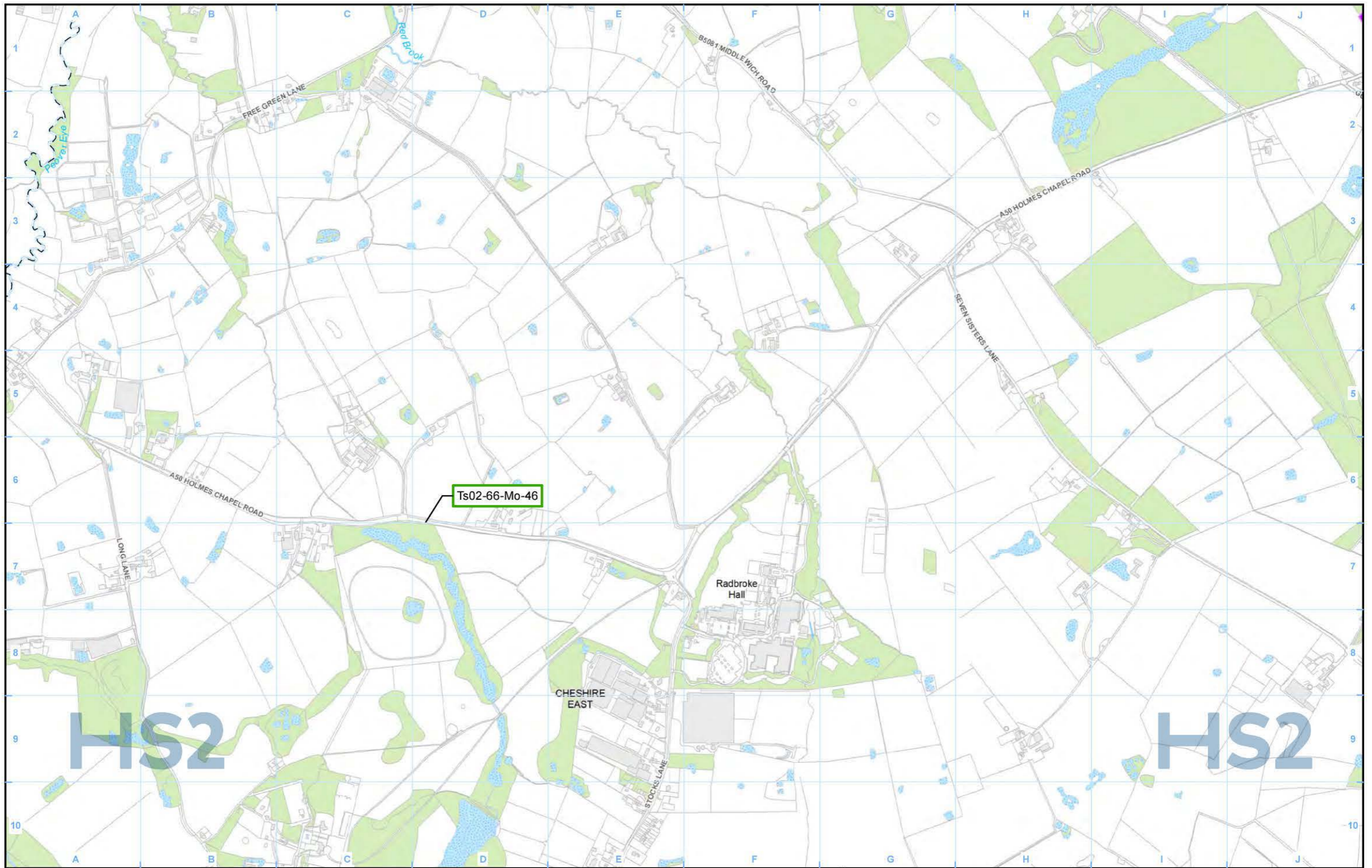
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Scale at A3: 1:10,000

Doc Number: 2PT24-MWJ-EV-MAP-M000-003010-P01

Date: 22/04/22

For continuation refer to map number TR-04-309a



Ts02-66-Mo-46

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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-309a-R1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA02: Wimboldsley to Lostock Gralam

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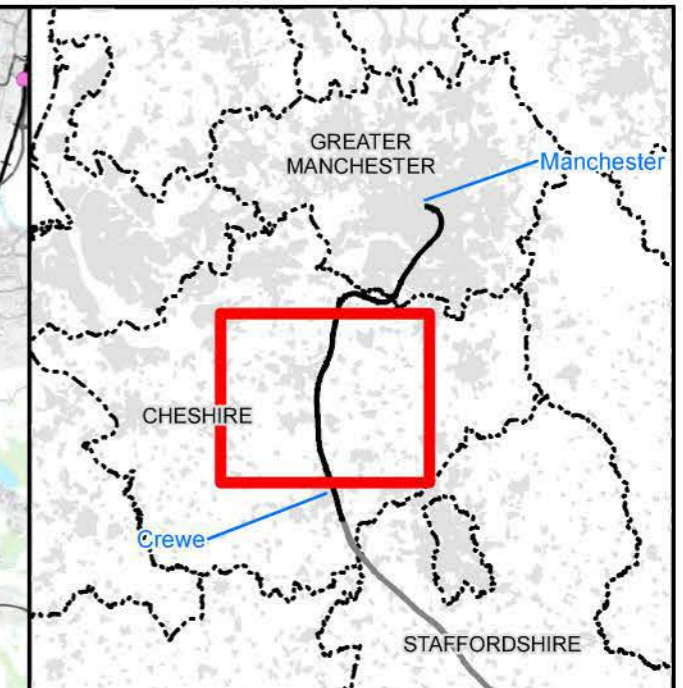
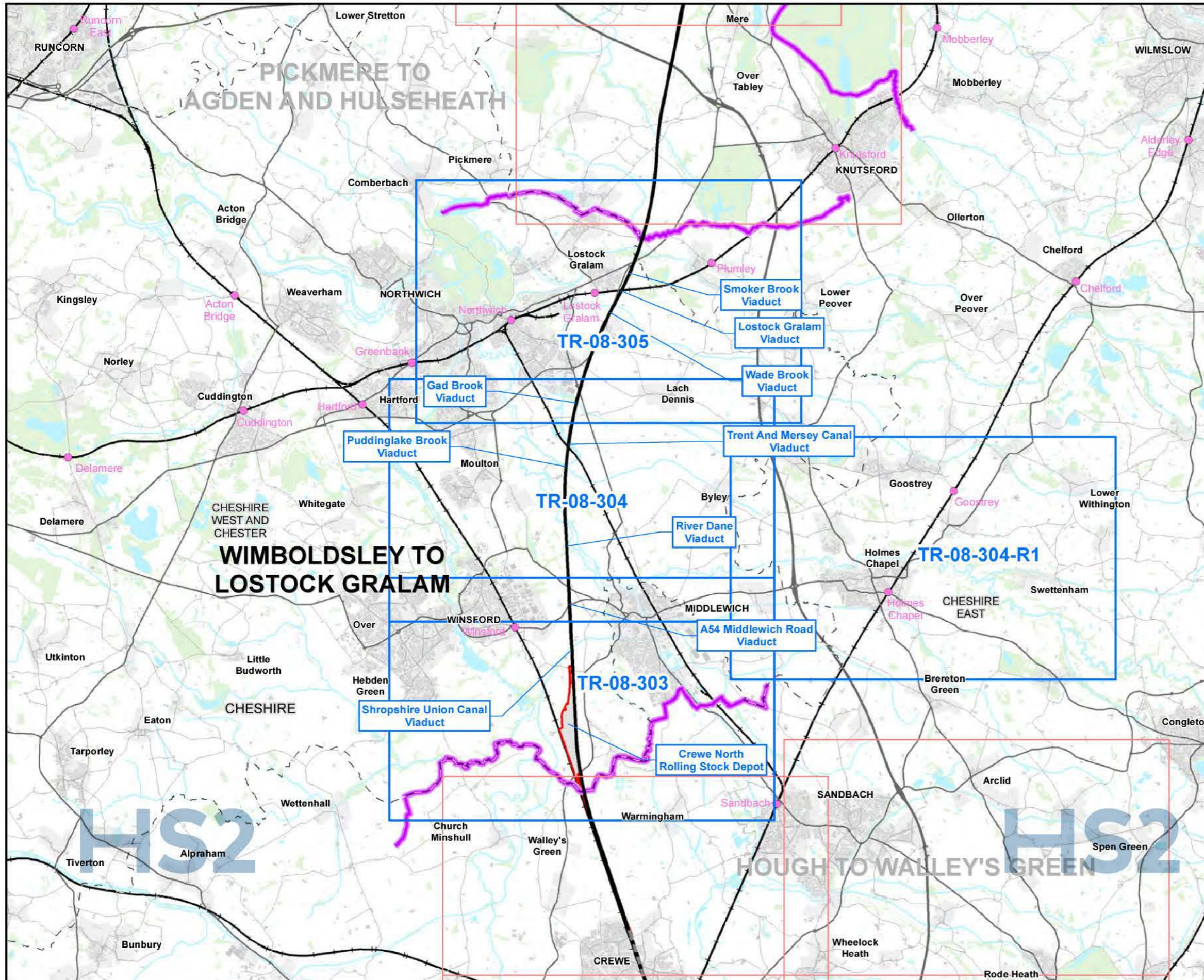
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Doc Number: 2PT24-MWJ-EV-MAP-M000-003012-P01

Scale at A3: 1:10,000

Metres

Date: 22/04/22



Map Series Information:

This map series identifies the construction routes to the strategic network for each CA. This shows the construction and site-haul routes from each compound and the through routes for both construction and site-haul. The maps also show the locations of the construction compound.

- 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 included in this community area with no amendment
 - Map sheets not included in this community area

Map Number: TR-08-INDEX-MA02

Map Name: Index Map of:
Construction Routes to the Strategic Network
SES1 and AP1 ES

Community Area MA02:
Wimboldsley to Lostock Gralam

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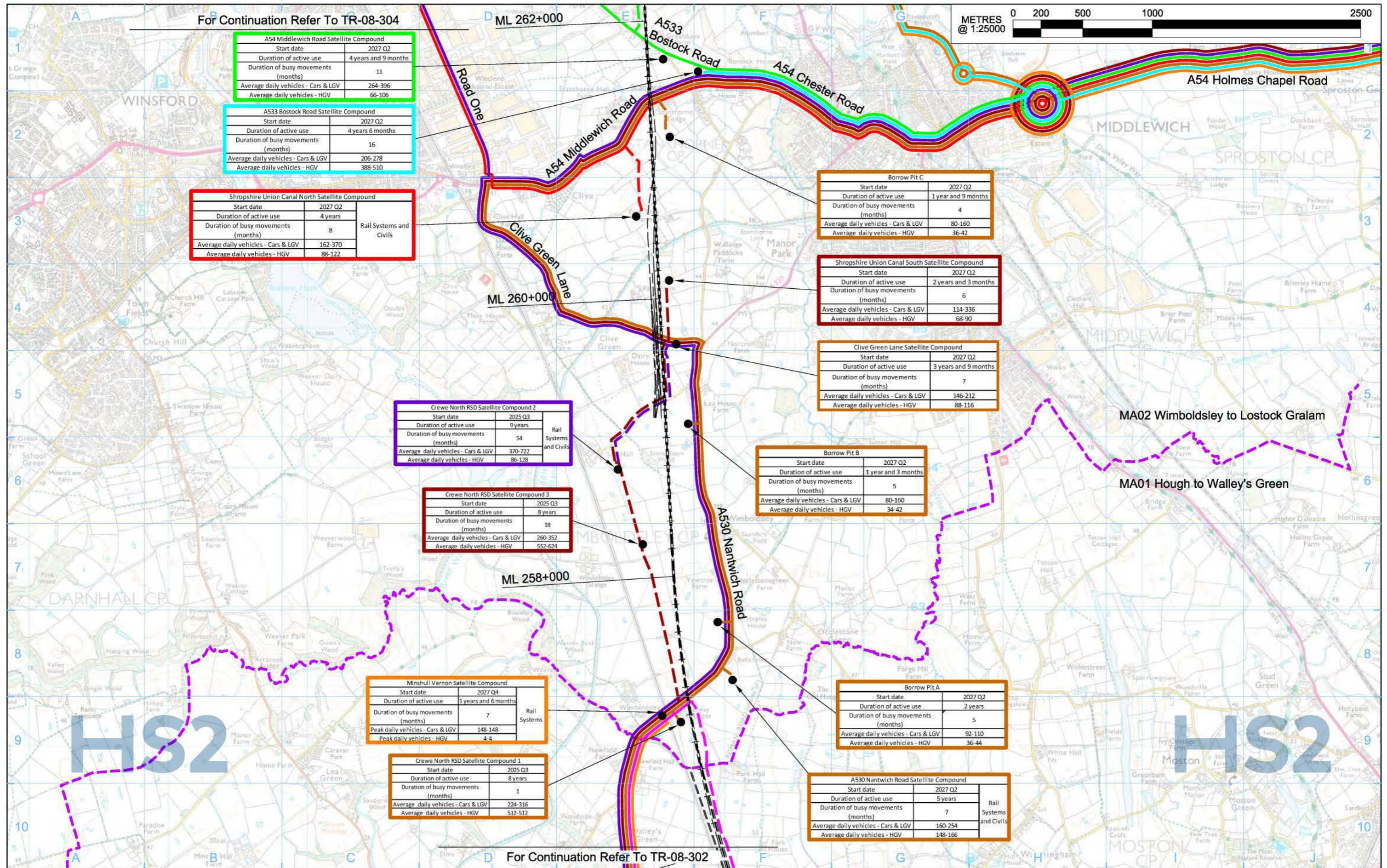
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002236-P01

Scale at A3: 1:100,000

Date: 19/04/22

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



Legend

- Compound Traffic Routes
- Site Haul to Compound
- Through Construction Traffic Routes (To/From Other Scheme Compounds)
- HS2 Route
- Onward Construction Routes
- Community Area boundary
- Through Site Haul to Compound (To/From Other Scheme Compounds)
- Movement of Excavated Material
- Construction Compounds

The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.

Traffic figures represent two way trips.

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000

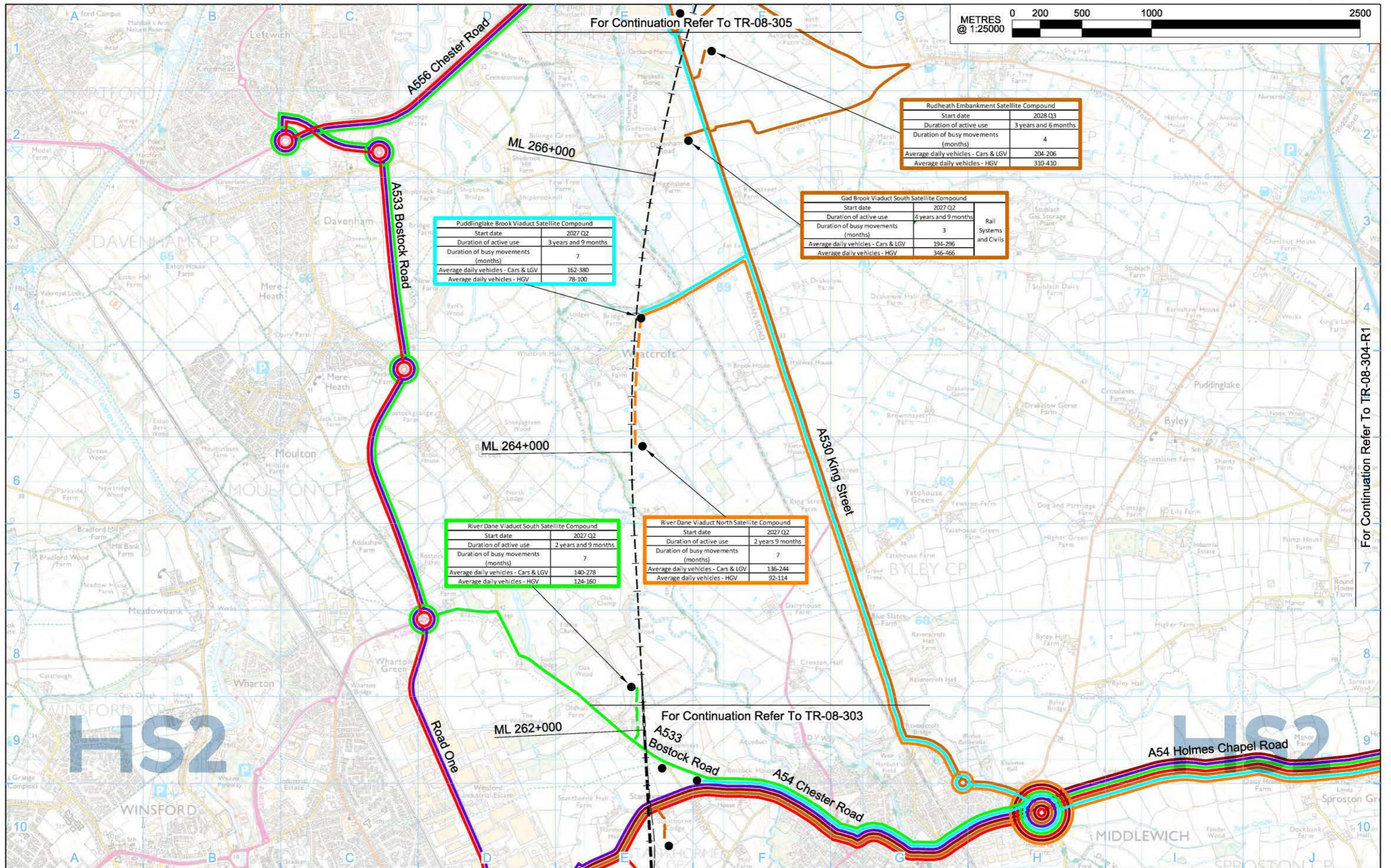
Map Number	TR-08-303
Map Name	Construction Routes to the Strategic Road Network
Community Area	MA02 Wimboldsley to Lostock Gralam

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Legend

- Compound Traffic Routes
- Site Haul to Compound
- Through Construction Traffic Routes (To/From Other Scheme Compounds)
- HS2 Route
- Onward Construction Routes
- Community Area boundary
- Through Site Haul to Compound (To/From Other Scheme Compounds)
- Movement of Excavated Material
- Construction Compounds

The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.

Traffic figures represent two way trips.

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000

Map Number: **TR-08-304**

Map Name: **Construction Routes to the Strategic Road Network**

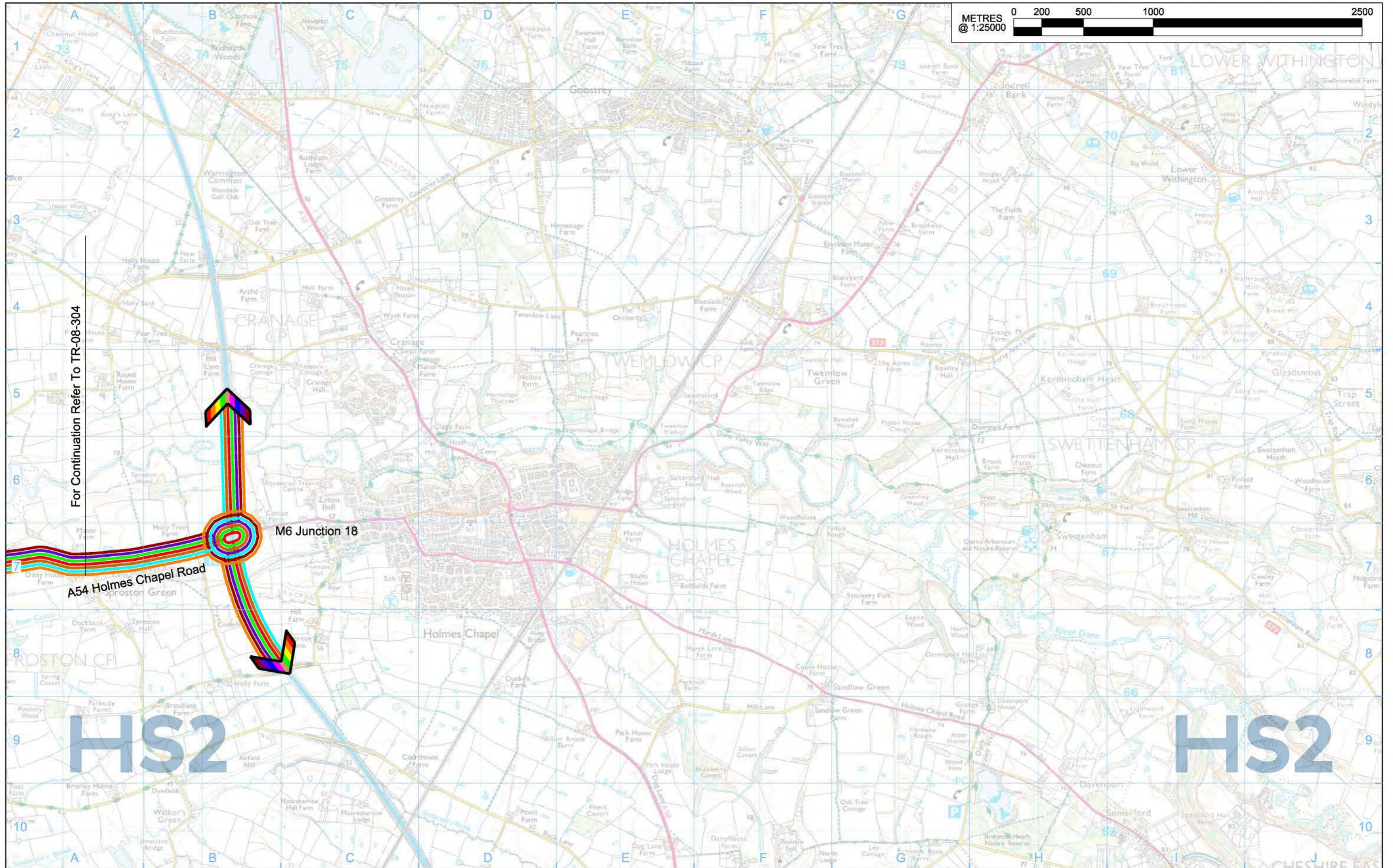
Community Area: **MA02 Wimboldsley to Lostock Gralam**

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Doc Number: 2PT24-MWJ-TM-DPL-M002-304000 P02 Date: 19/11/21



- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.

Traffic figures represent two way trips.

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000

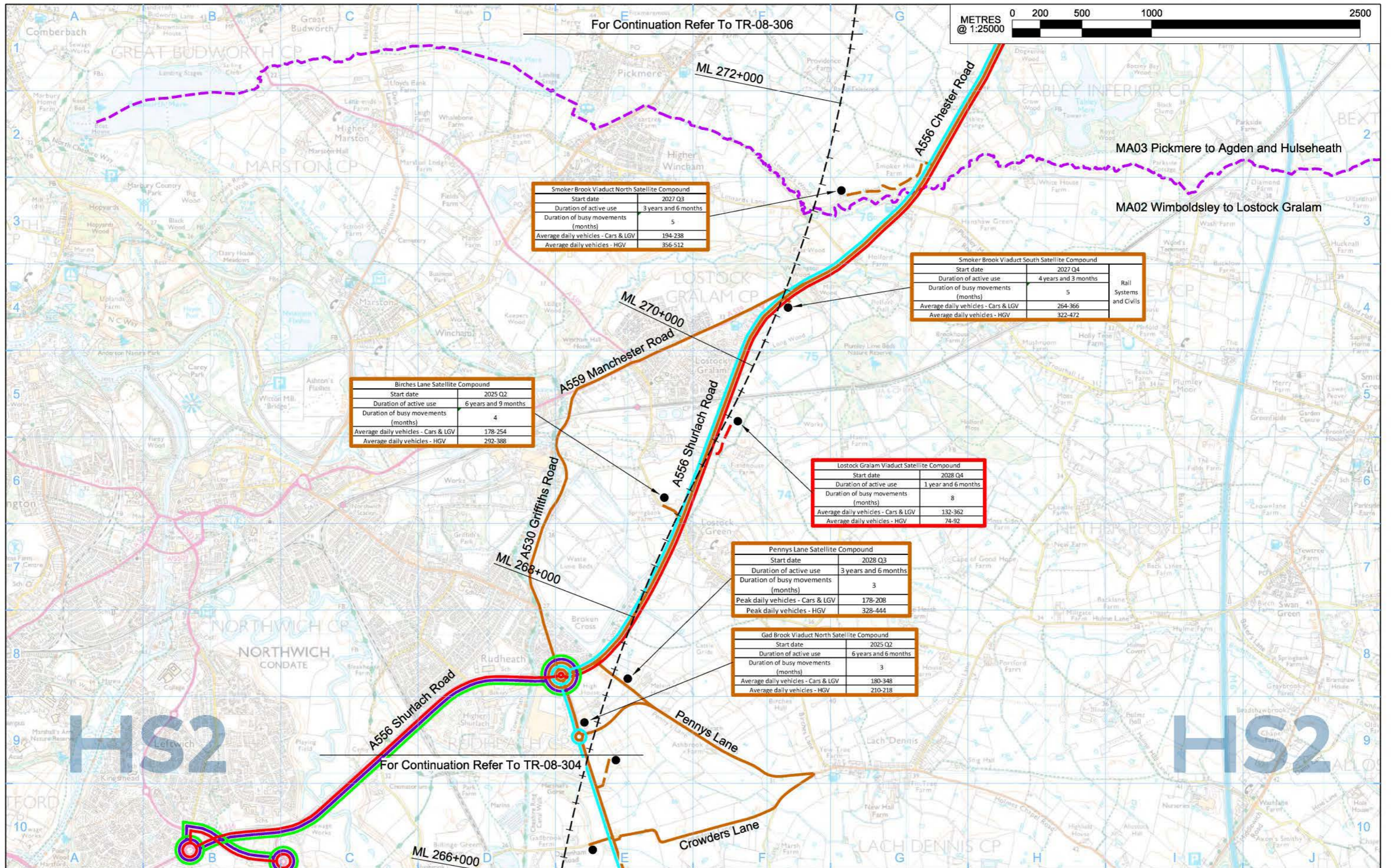
Map Number	TR-08-304-R1
Map Name	Construction Routes to the Strategic Road Network
Community Area	MA02 Wimboldsey to Lostock Gralam

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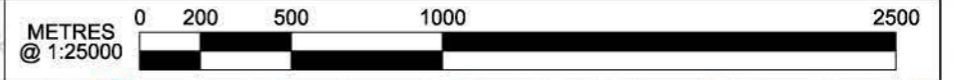
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Doc Number: 2PT24-MWJ-TM-DPL-M002-304201 P02 Date: 19/11/21



For Continuation Refer To TR-08-306



Smoker Brook Viaduct North Satellite Compound	
Start date	2027 Q3
Duration of active use	3 years and 6 months
Duration of busy movements (months)	5
Average daily vehicles - Cars & LGV	194-238
Average daily vehicles - HGV	356-512

Smoker Brook Viaduct South Satellite Compound		Rail Systems and Civils
Start date	2027 Q4	
Duration of active use	4 years and 3 months	
Duration of busy movements (months)	5	
Average daily vehicles - Cars & LGV	264-366	
Average daily vehicles - HGV	322-472	

Birches Lane Satellite Compound	
Start date	2025 Q2
Duration of active use	6 years and 9 months
Duration of busy movements (months)	4
Average daily vehicles - Cars & LGV	178-254
Average daily vehicles - HGV	292-388

Lostock Grlam Viaduct Satellite Compound	
Start date	2028 Q4
Duration of active use	1 year and 6 months
Duration of busy movements (months)	8
Average daily vehicles - Cars & LGV	132-362
Average daily vehicles - HGV	74-92

Pennys Lane Satellite Compound	
Start date	2028 Q3
Duration of active use	3 years and 6 months
Duration of busy movements (months)	3
Peak daily vehicles - Cars & LGV	178-208
Peak daily vehicles - HGV	328-444

Gad Brook Viaduct North Satellite Compound	
Start date	2025 Q2
Duration of active use	6 years and 6 months
Duration of busy movements (months)	3
Average daily vehicles - Cars & LGV	180-348
Average daily vehicles - HGV	210-218

HS2

HS2

For Continuation Refer To TR-08-304

- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.
Traffic figures represent two way trips.

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound
For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000

Map Number: **TR-08-305**

Map Name: **Construction Routes to the Strategic Road Network**

Community Area: **MA02 Wimboldsley to Lostock Grlam**

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High Speed Rail (Crewe – Manchester)

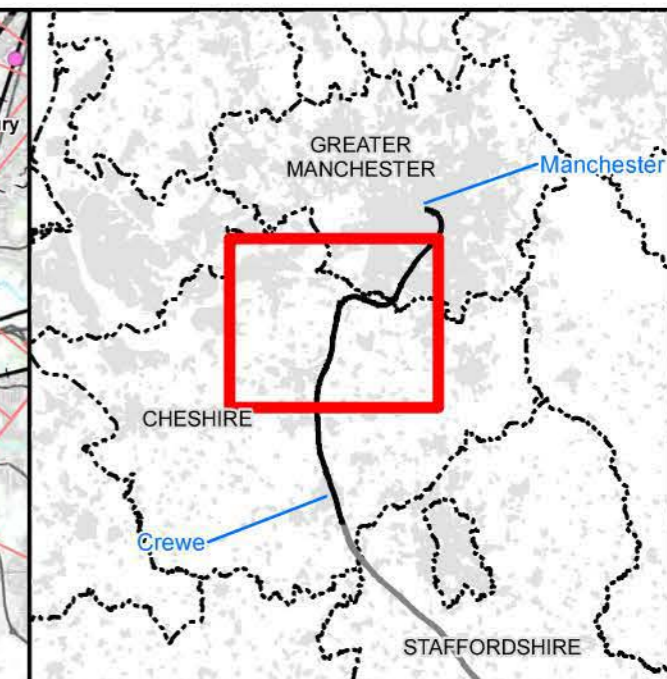
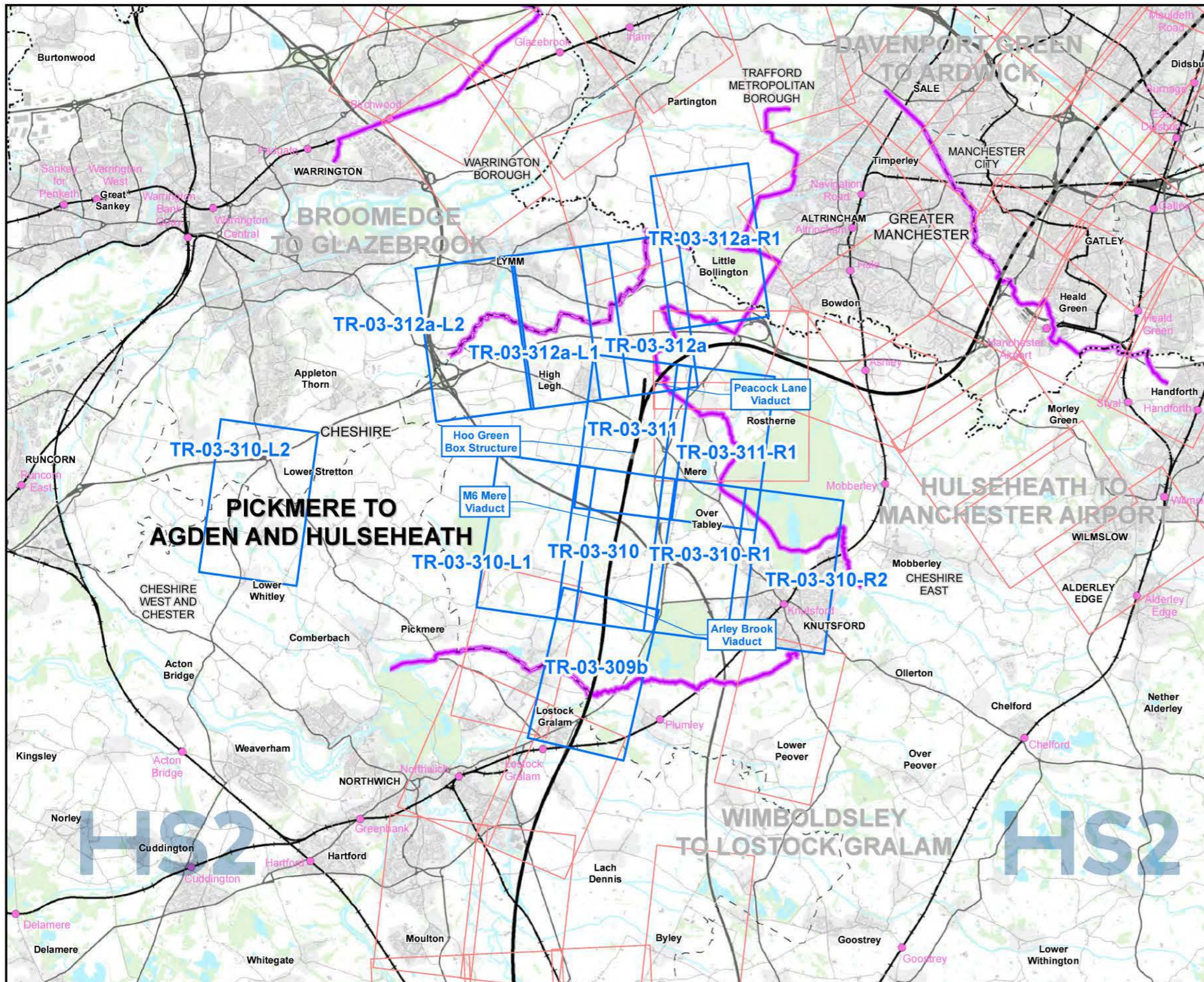
Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

MA03: Pickmere to Agden and Hulseheath

TR-03 – Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

TR-04 – Significant Residual Transport Effects Arising from Operation

TR-08 – Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

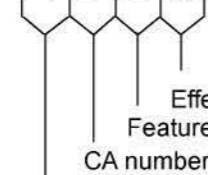
<p>Main Map Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Community area boundary Existing railway station County boundary District/Borough boundary Map sheets included in this community area Map sheets included in this community area with no amendment Map sheets not included in this community area 	
<p>Map Number: TR-03-INDEX-MA03</p> <p>Map Name: Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES</p> <p>Community Area MA03: Pickmere to Agden and Hulseheath</p>	<p>HS2</p> <p>Registered in England: Registration number 06791686 Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6QA.</p> <p>Scale at A3: 1:100,000</p> <p>© Crown copyright and database rights 2021 OS 100049190</p> <p>Doc Number: 2PT24-MWJ-EV-MAP-M000-002180-P01</p> <p>Date: 26/04/22</p>

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

Significant effect label:

Significant effect reference:

PT01-01-Mi



Operational effect identifier

Effect level
Feature number

CA number

Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

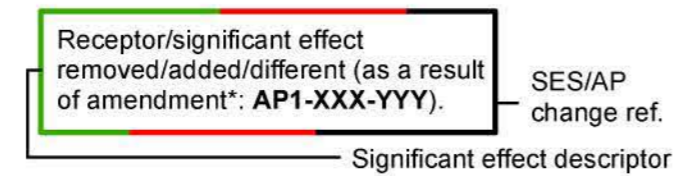
- Mi - Minor
- Mo - Moderate
- Ma - Major

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number TR-03 - Legend

Map Name
TR-03 - Significant Residual
Transport Effects Arising
during Construction and
Construction Traffic Routes -
SES1 and AP1 ES

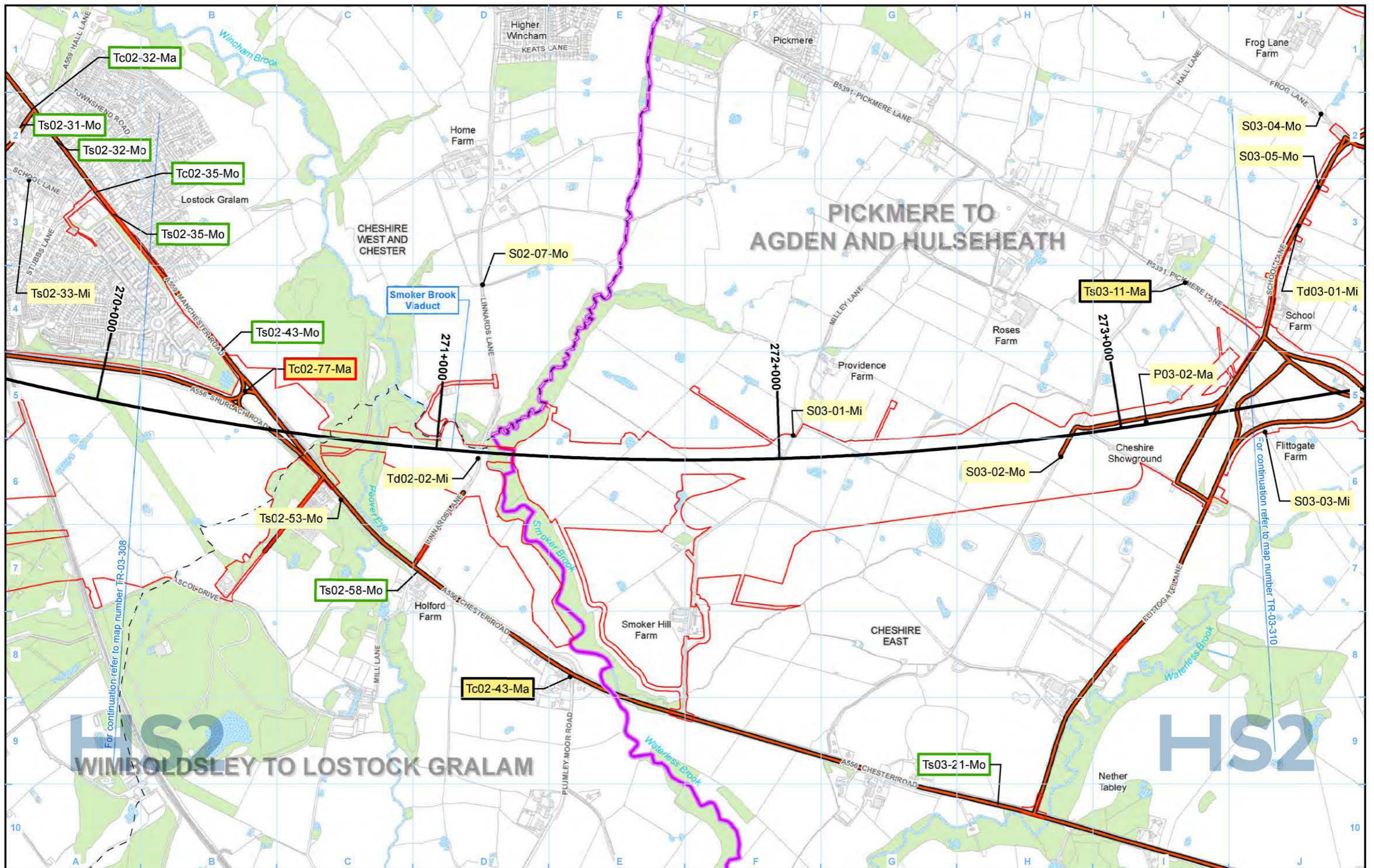


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Legend

<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 County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Construction traffic routes 	<p>Construction significant effects unchanged from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>Construction significant effects arising from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	For full legend please refer to TR-03 legend page.
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Map Number: TR-03-309b

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

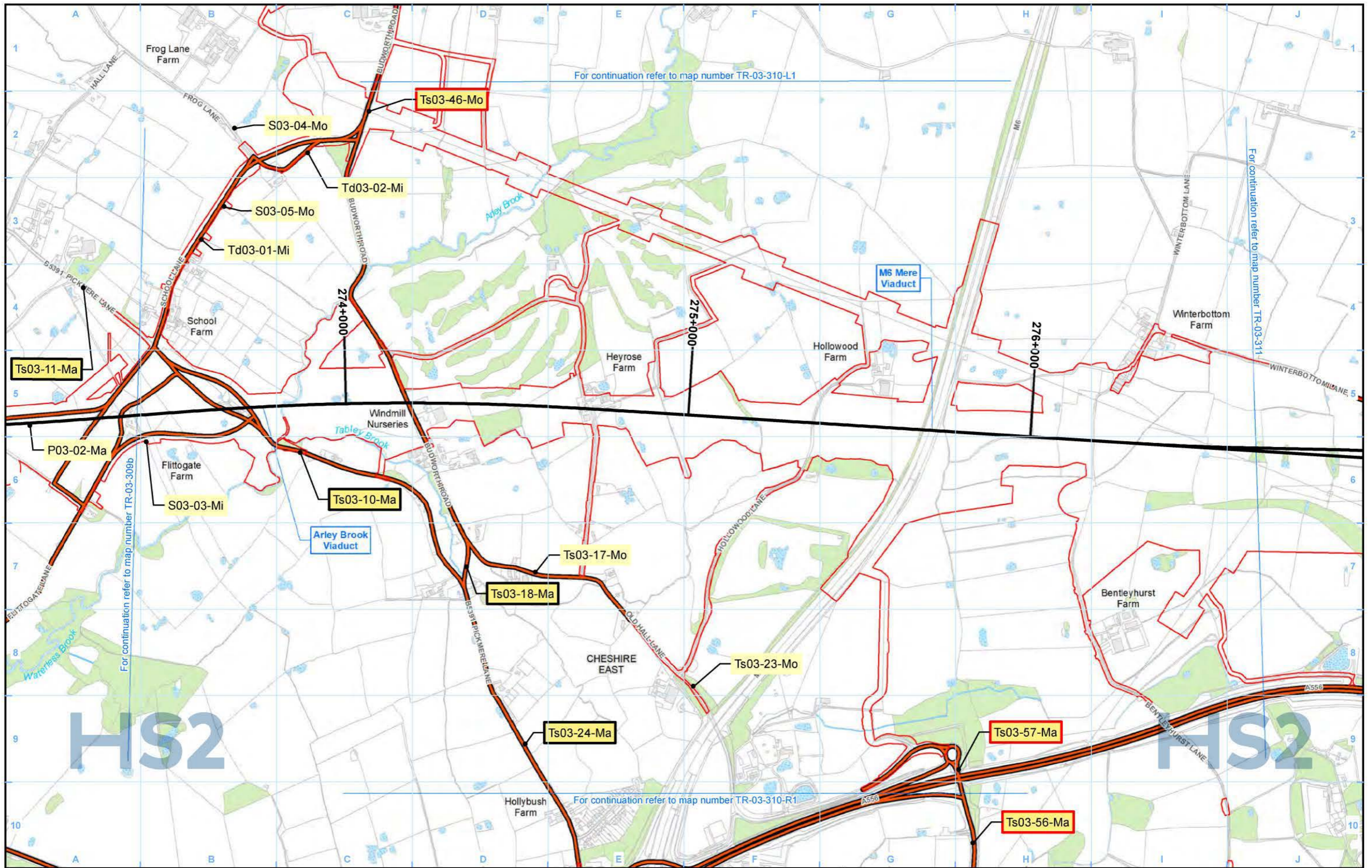
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For continuation refer to map number TR-03-310-L1

For continuation refer to map number TR-03-311

For continuation refer to map number TR-03-309b

For continuation refer to map number TR-03-310-R1

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-310

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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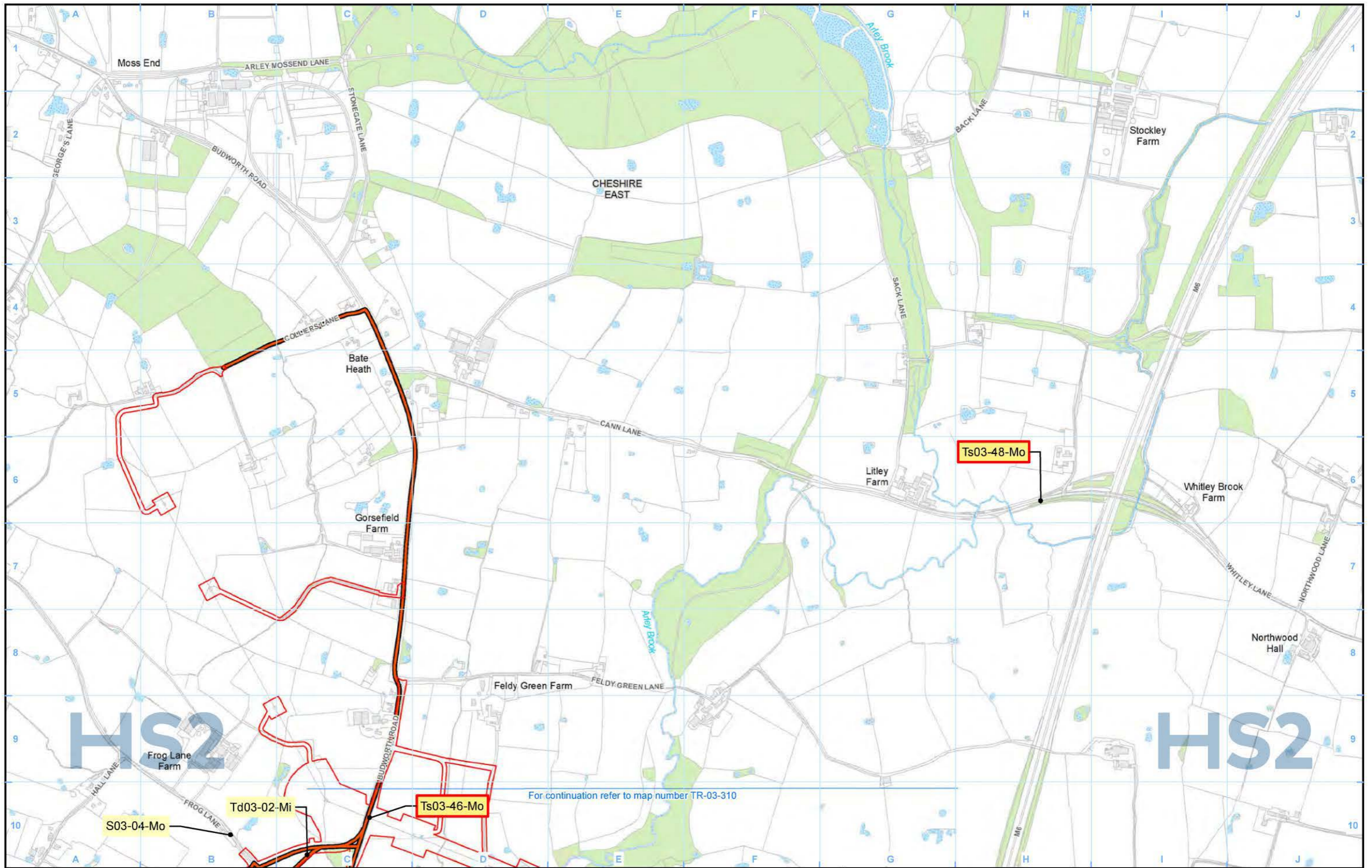
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Date: 26/04/22

Scale at A3: 1:10,000

Metres



For continuation refer to map number TR-03-310

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-310-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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Metres



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
	Construction traffic routes

Construction significant effects unchanged from the SES/AP:		Construction significant effects arising from the SES/AP:	
	Adverse, permanent		Adverse, permanent
	Adverse, temporary		Adverse, temporary
	Beneficial, temporary		Beneficial, temporary
	Beneficial, permanent		Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-310-L2
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA03: Pickmere to Agden and Hulseheath	

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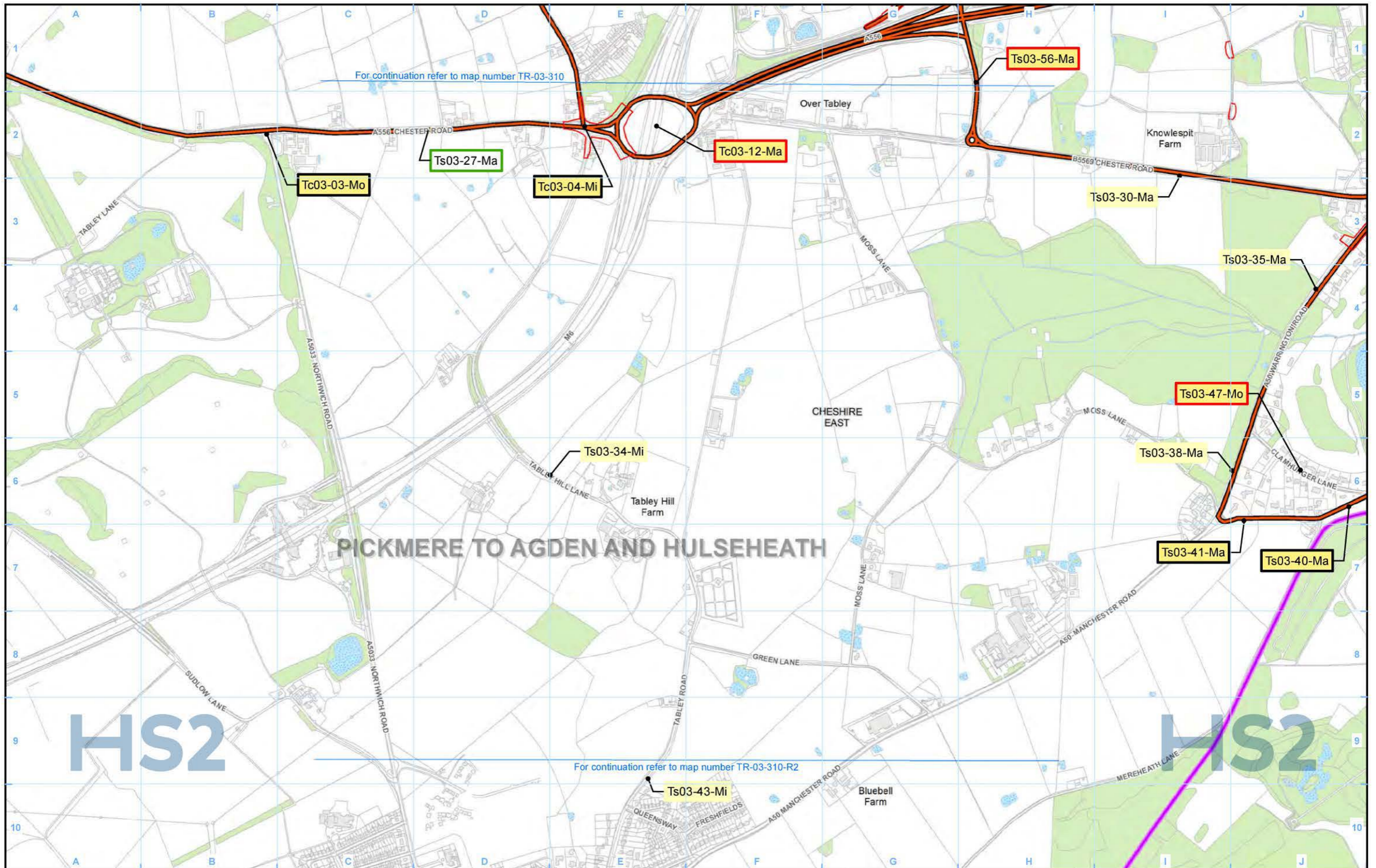
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Date: 26/04/22

Scale at A3: 1:10,000

Metres

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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
 - Construction traffic routes

- Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-310-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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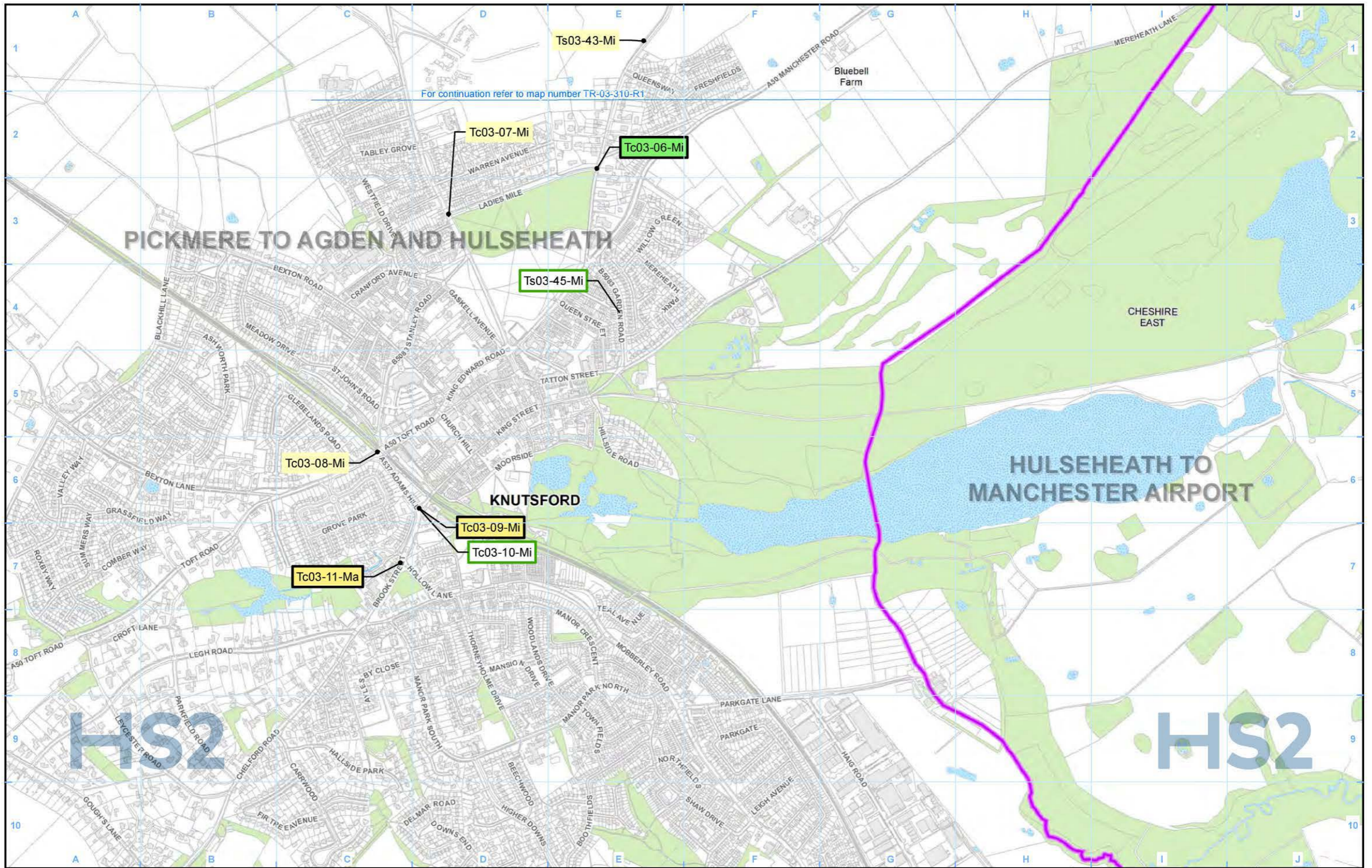
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Metres



For continuation refer to map number TR-03-310-R1

PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

KNUTSFORD

HS2

HS2

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-310-R2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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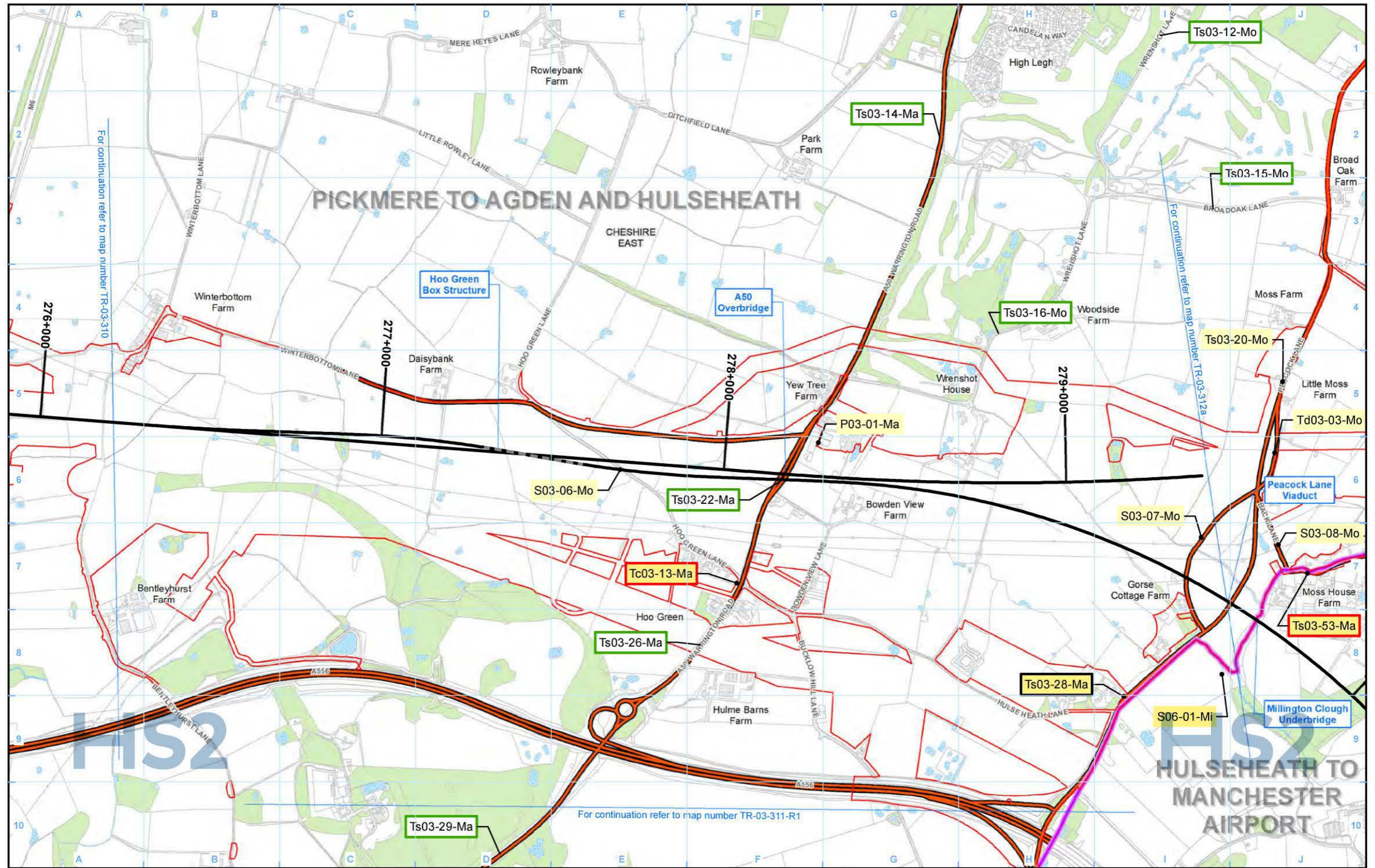
Doc Number: 2PT24-MWJ-EV-MAP-M000-002904-P01

Date: 26/04/22

Scale at A3: 1:10,000

Metres





Legend

Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland
Land potentially required during construction	Construction traffic routes
Community area boundary	
County boundary	
District/Borough boundary	

Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:
Adverse, permanent	Adverse, permanent
Adverse, temporary	Adverse, temporary
Beneficial, temporary	Beneficial, temporary
Beneficial, permanent	Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-311
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA03: Pickmere to Agden and Hulseheath	

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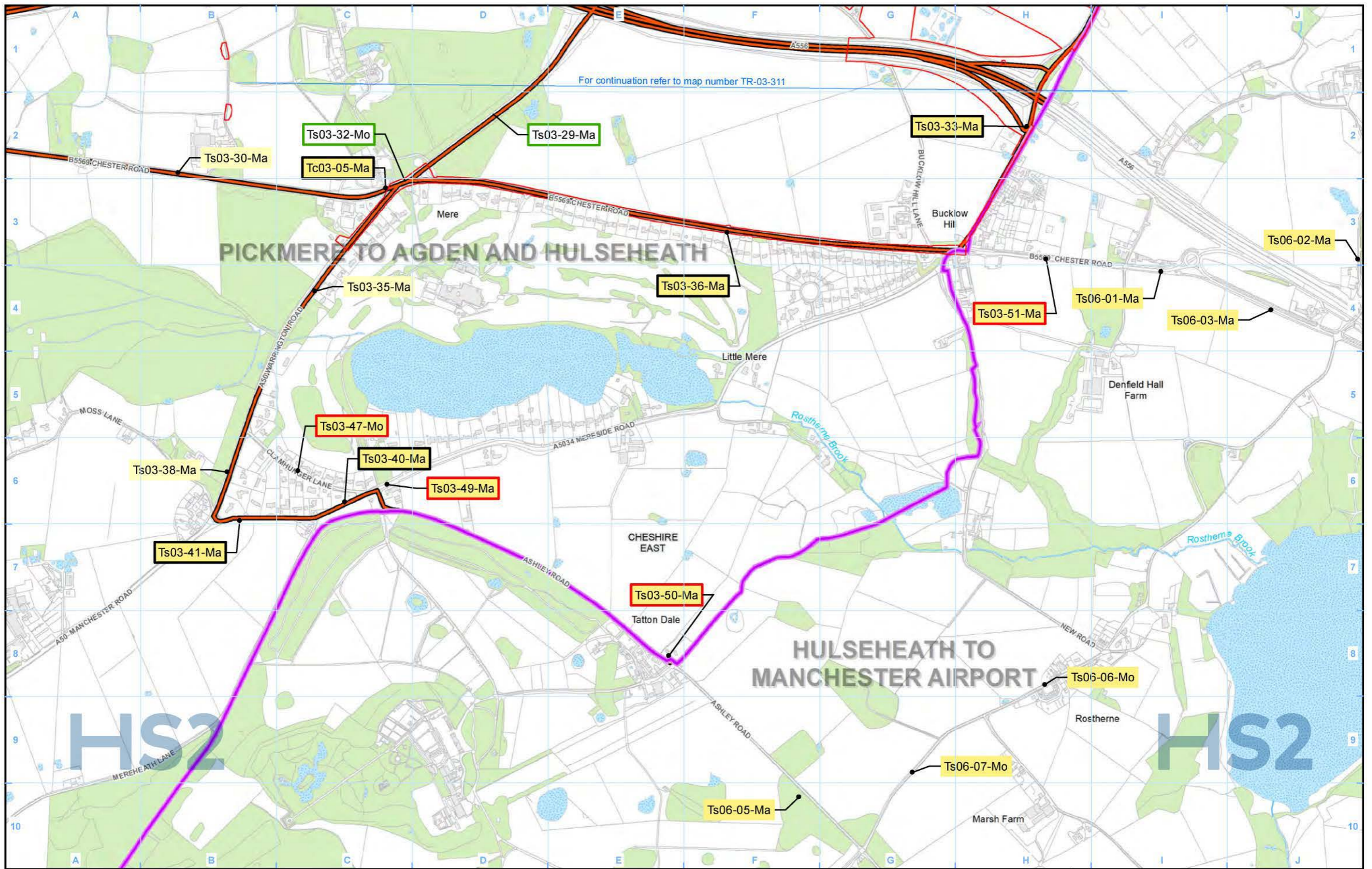
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For continuation refer to map number TR-03-311

PICKMERE TO AGDEN AND HULSEHEATH

HULSEHEATH TO MANCHESTER AIRPORT

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-311-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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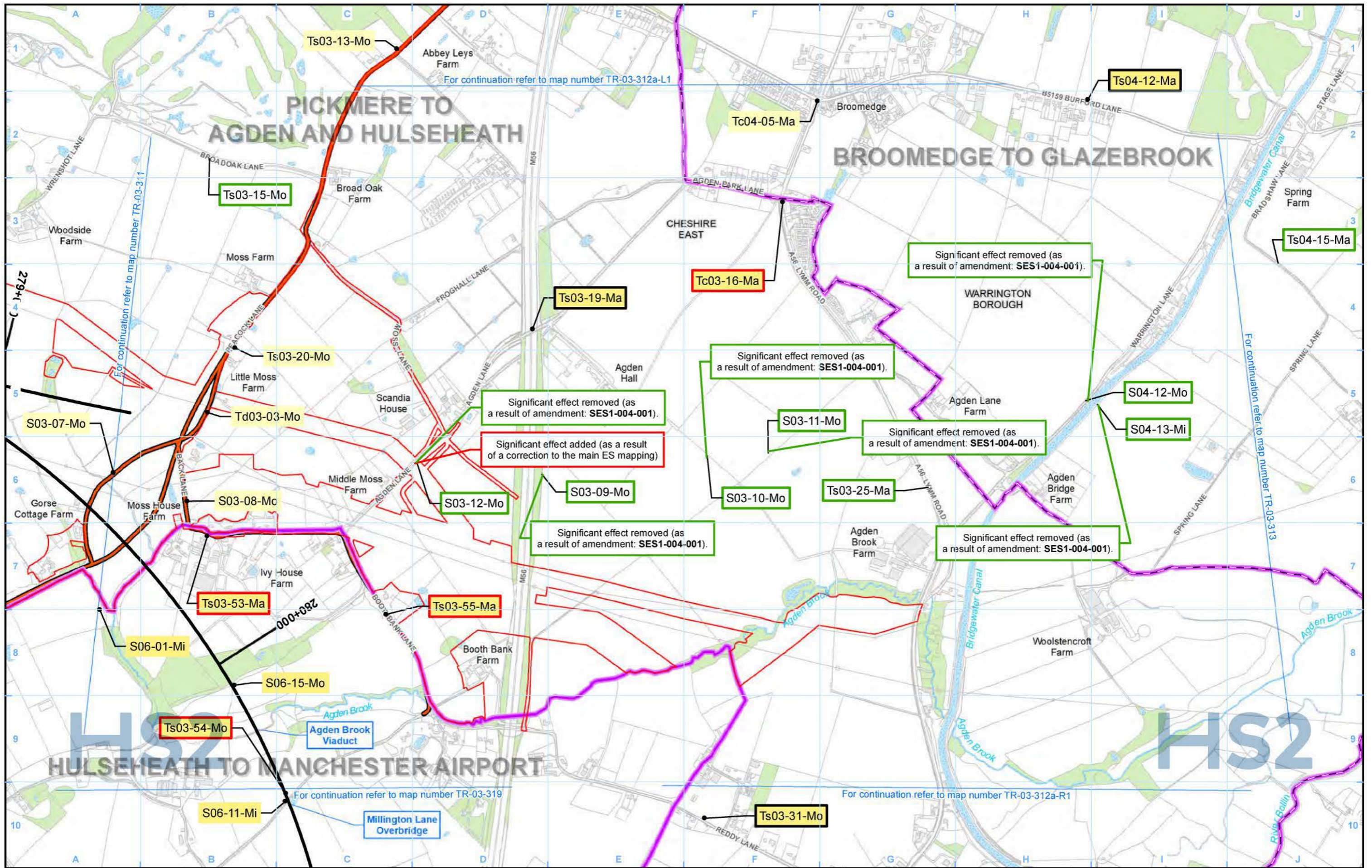
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Date: 26/04/22

Scale at A3: 1:10,000

Metres





Legend

		Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:

For full legend please refer to TR-03 legend page.

Map Number	TR-03-312a
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA03: Pickmere to Agden and Hulseheath	

HS2

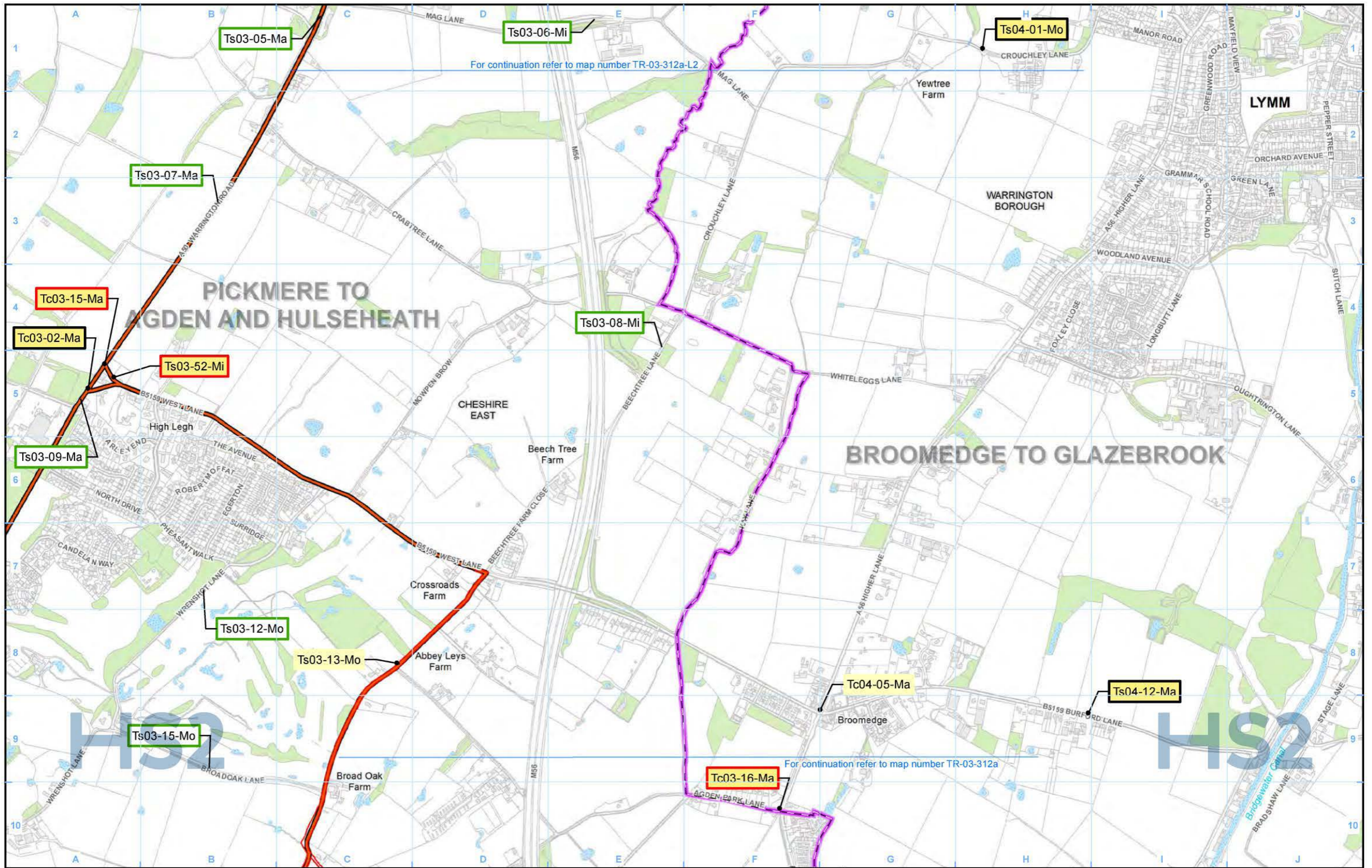
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For continuation refer to map number TR-03-312a-L2

For continuation refer to map number TR-03-312a

- 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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP: Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

- Construction significant effects arising from the SES/AP: Adverse, permanent
- Adverse, temporary
- Beneficial, temporary
- Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-312a-L1
 Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
 Community Area MA03: Pickmere to Agden and Hulseheath

HS2

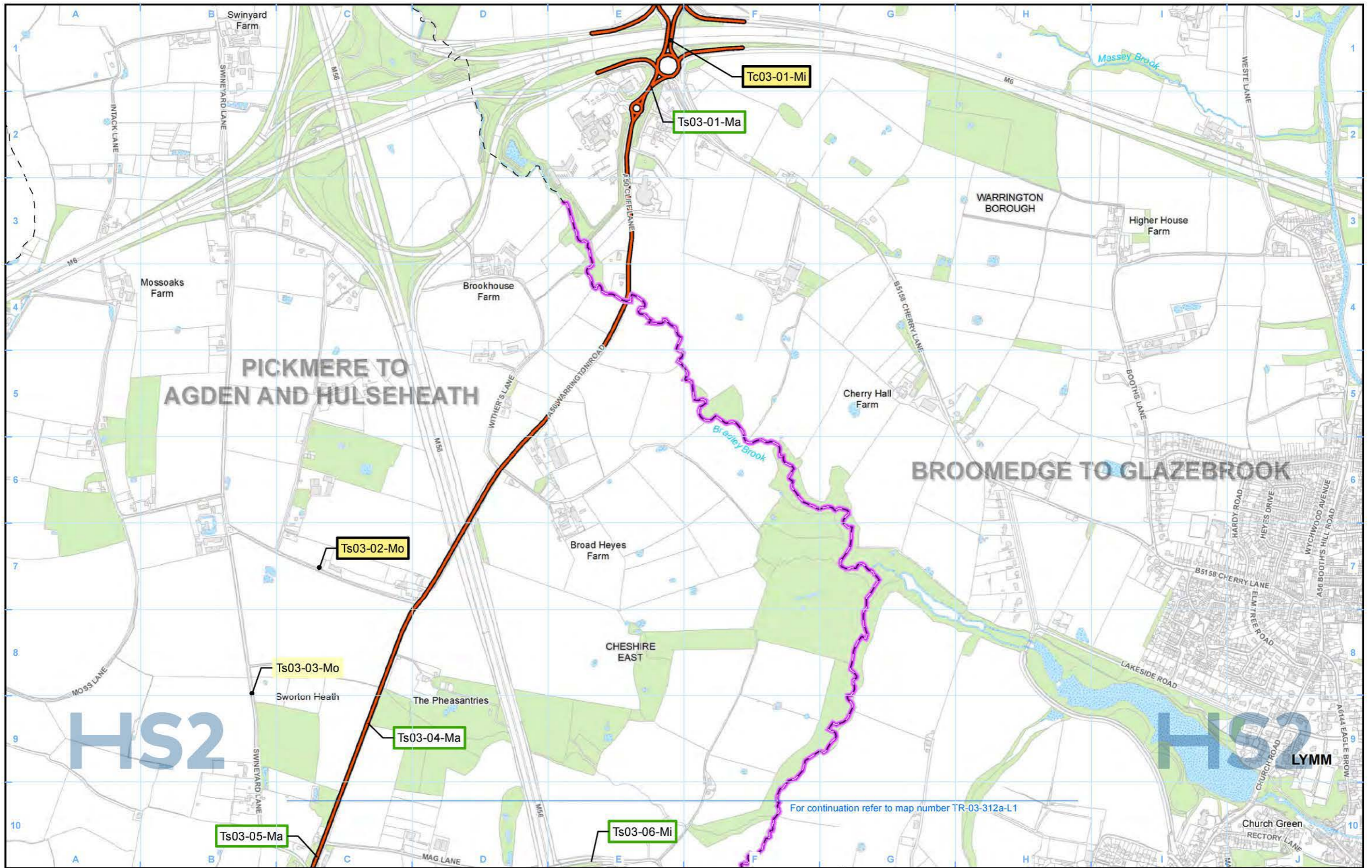
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Date: 26/04/22



PICKMERE TO AGDEN AND HULSEHEATH

BROOMEDGE TO GLAZEBROOK

HS2

HS2 LYMM

For continuation refer to map number TR-03-312a-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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-312a-L2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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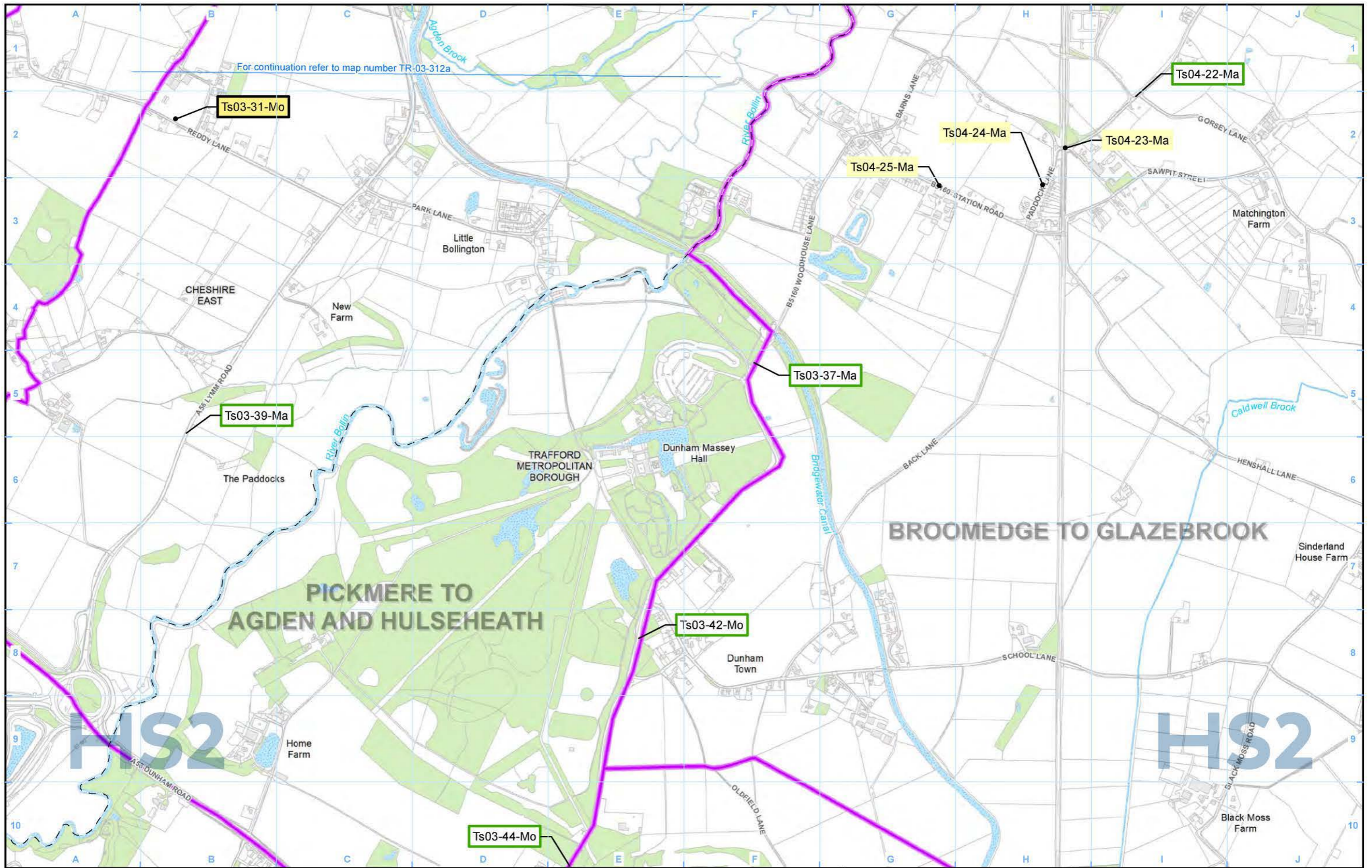
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Date: 26/04/22

Scale at A3: 1:10,000

Metres





For continuation refer to map number TR-03-312a

BROOMEDGE TO GLAZEBROOK

PICKMERE TO AGDEN AND HULSEHEATH

- 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
 - Construction traffic routes

- Watercourse
- Water body
- Woodland
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-312a-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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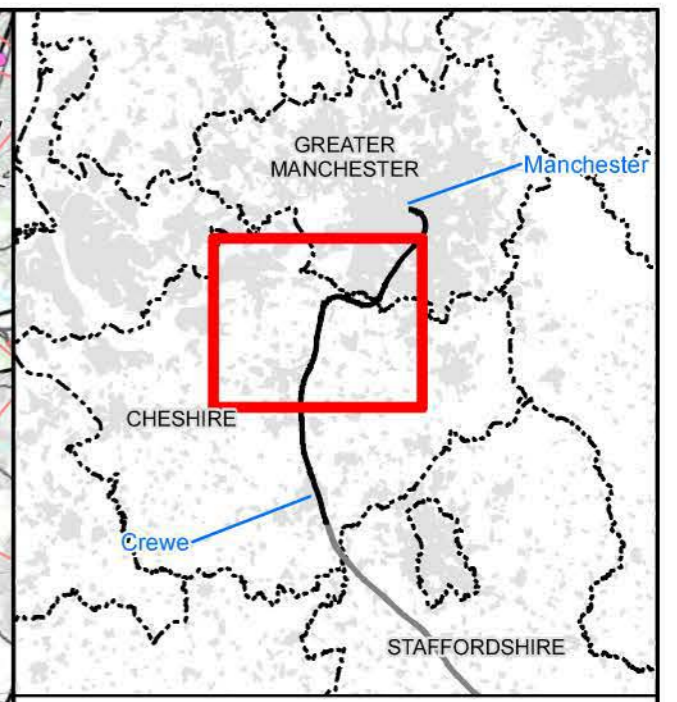
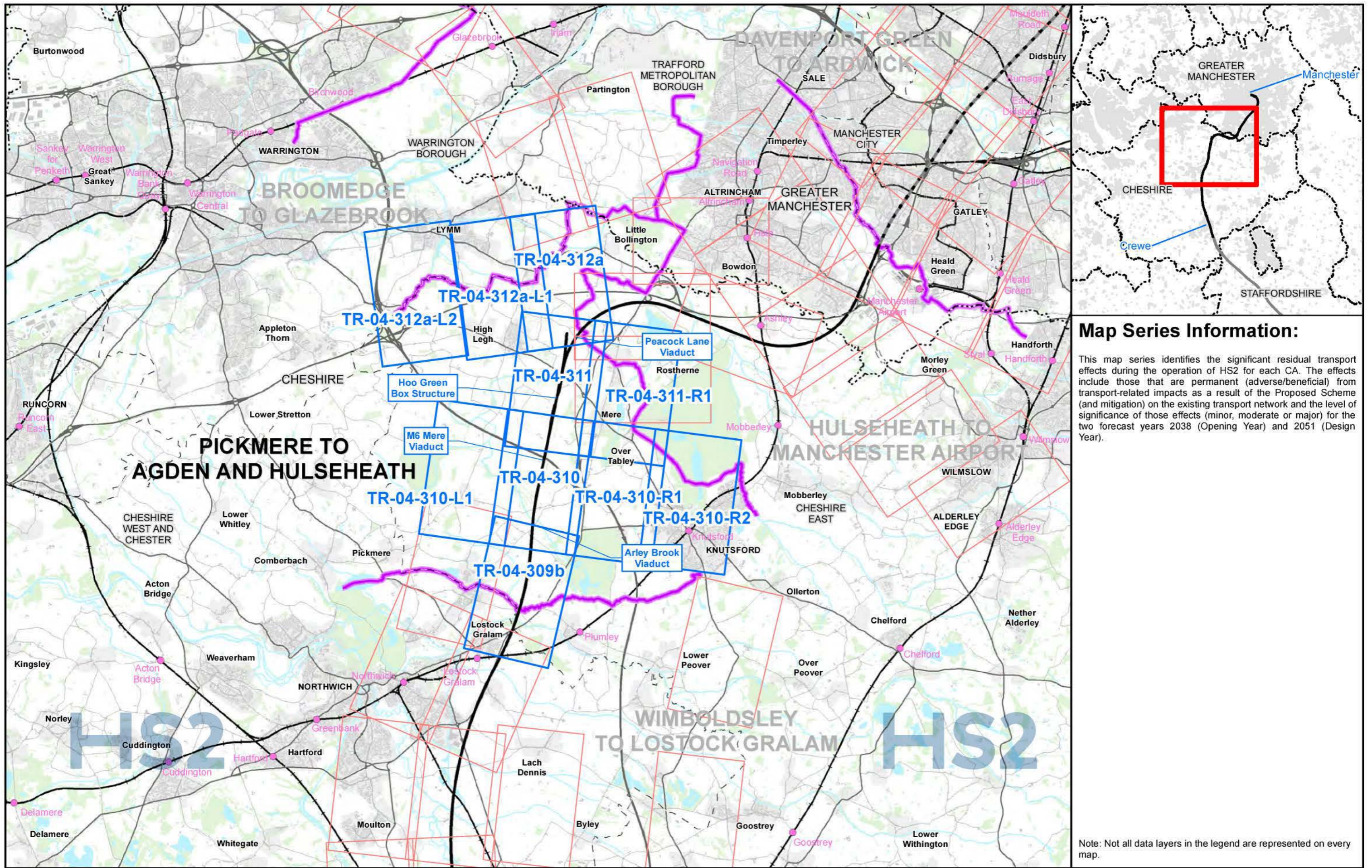
Doc Number: 2PT24-MWJ-EV-MAP-M000-002729-P01

Date: 26/04/22

Scale at A3: 1:10,000

Metres





Map Series Information:

This map series identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2038 (Opening Year) and 2051 (Design Year).

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 included in this community area with no amendment
- Map sheets not included in this community area

Map Number	TR-04-INDEX-MA03
Map Name	Index Map of: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES Community Area MA03: Pickmere to Agden and Hulseheath

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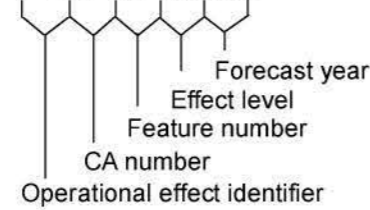
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002226-P01 Date: 22/04/22

Significant effect label:

Significant effect reference:

PT01-01-Mi-38



Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast year:

- 38 - Significant effect in 2038
- 51 - Significant effect in 2051
- Missing - Significant effect in both forecast years

Significant effects identified in the main ES for 2046 that are unchanged in the SES and AP assessments are now relabelled as 2051 to reflect the change in forecast year.

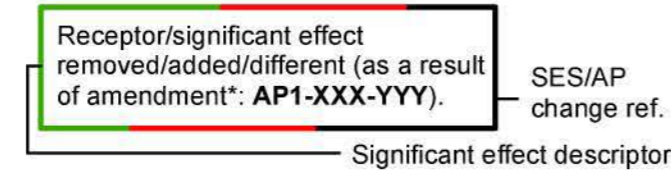
Where a significant effect is added or changed in one or both forecast years resulting in effects of the same type (i.e. adverse/beneficial) and level (i.e. minor/moderate/major) in the same location in both forecast years in SES/AP, the effects are labelled separately for each forecast year but have the same feature number.

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) in a given forecast year at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that in a given forecast year the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number: TR-04 - Legend

Map Name: TR-04 - Significant Residual Transport Effects Arising from Operation - SES1 and AP1 ES Legend

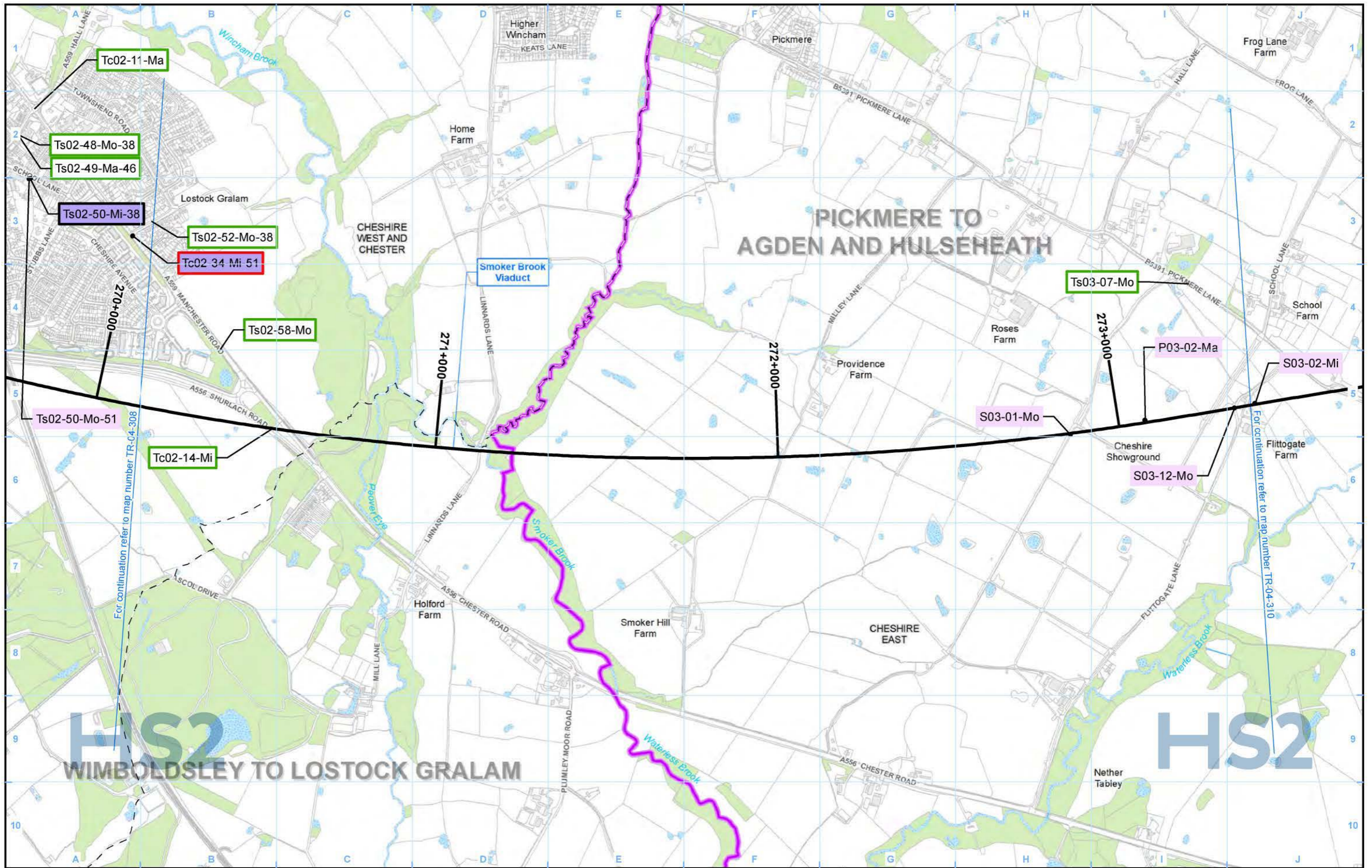


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Date: 22/04/22



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-309b

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

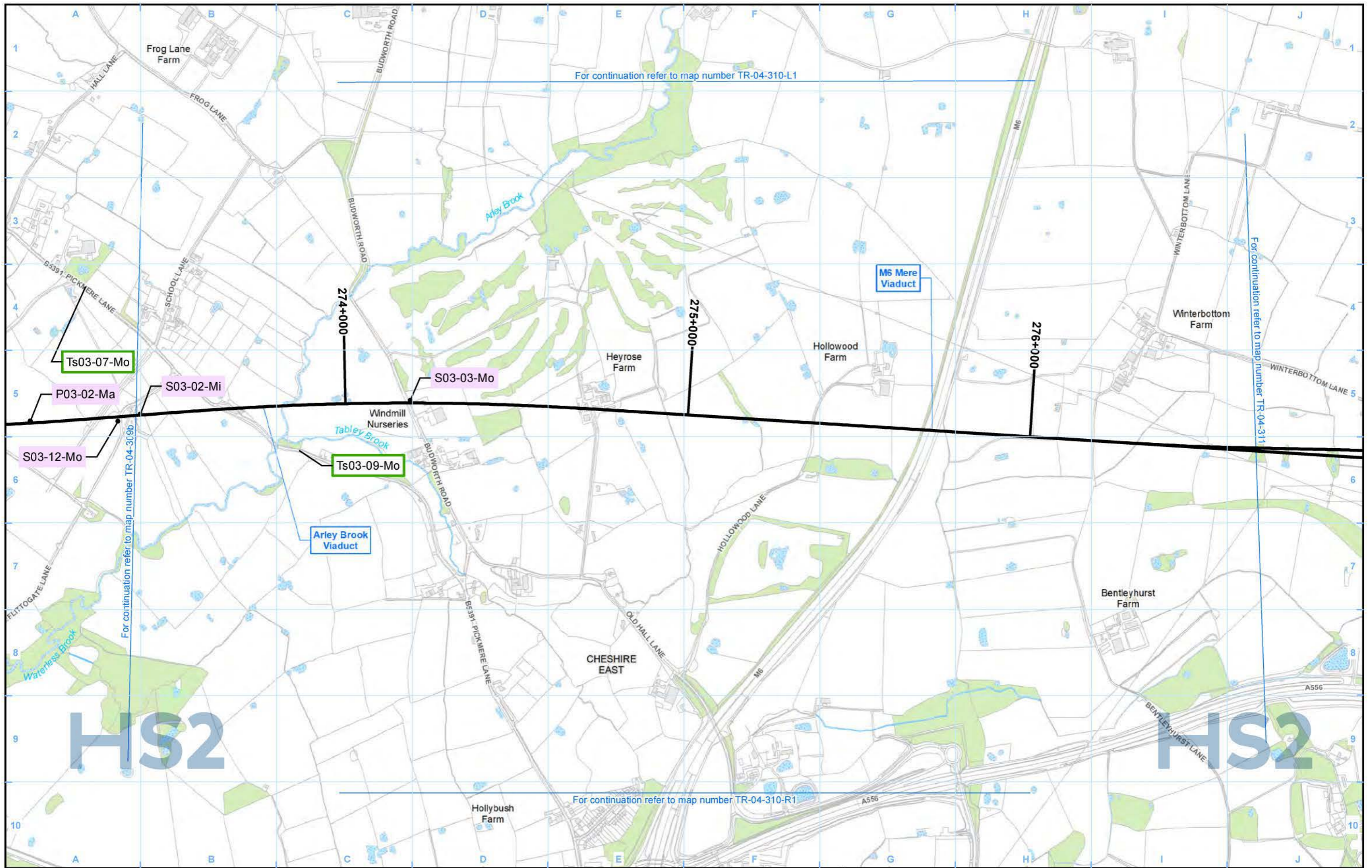
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For continuation refer to map number TR-04-310-L1

For continuation refer to map number TR-04-311

For continuation refer to map number TR-04-309b

For continuation refer to map number TR-04-310-R1

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Operational significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-310

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseath

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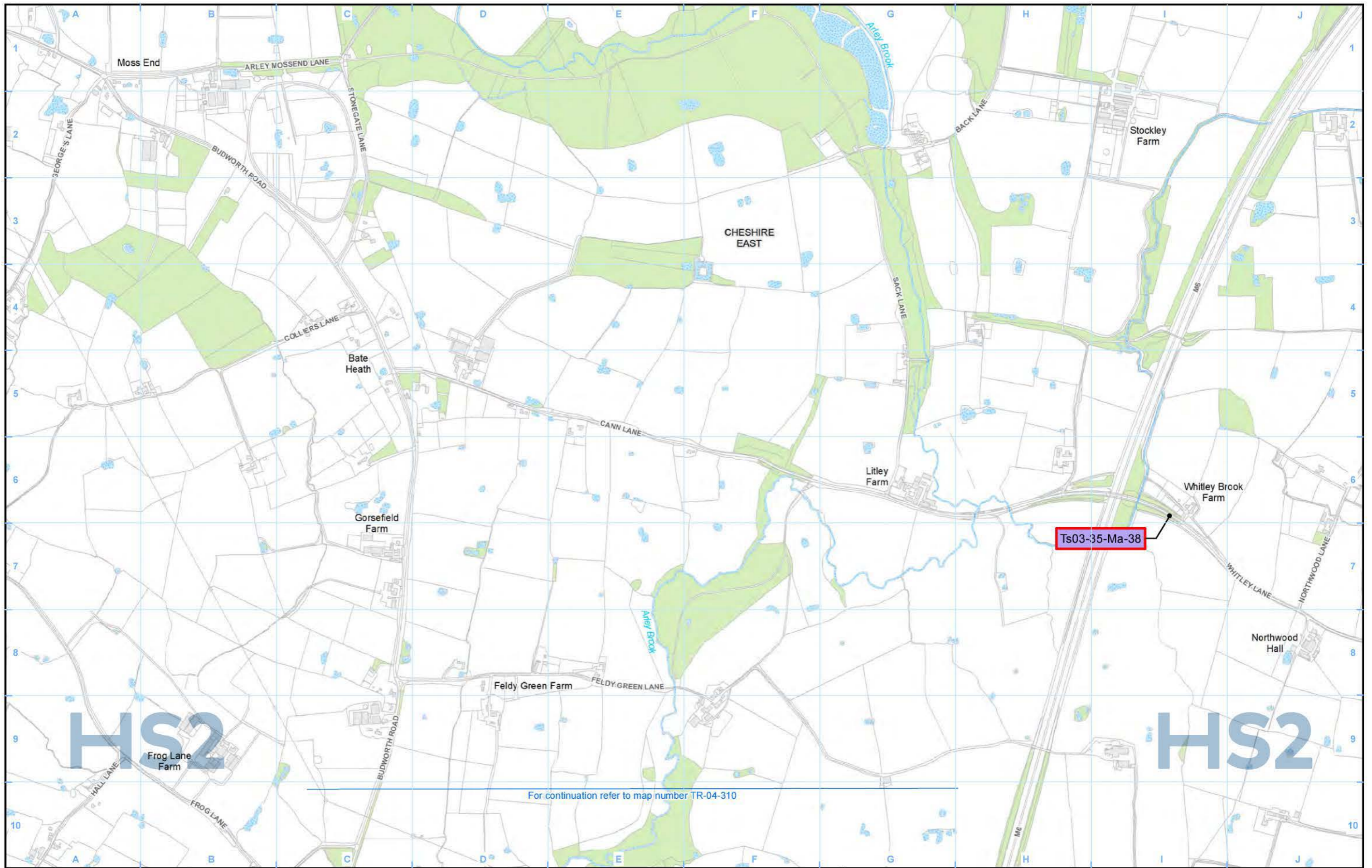
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Metres

Date: 22/04/22



For continuation refer to map number TR-04-310

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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-310-L1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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Metres

Date: 22/04/22



For continuation refer to map number TR-04-310

For continuation refer to map number TR-04-310-R2

PICKMERE TO AGDEN AND HULSEHEATH

HS2

HS2

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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-310-R1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

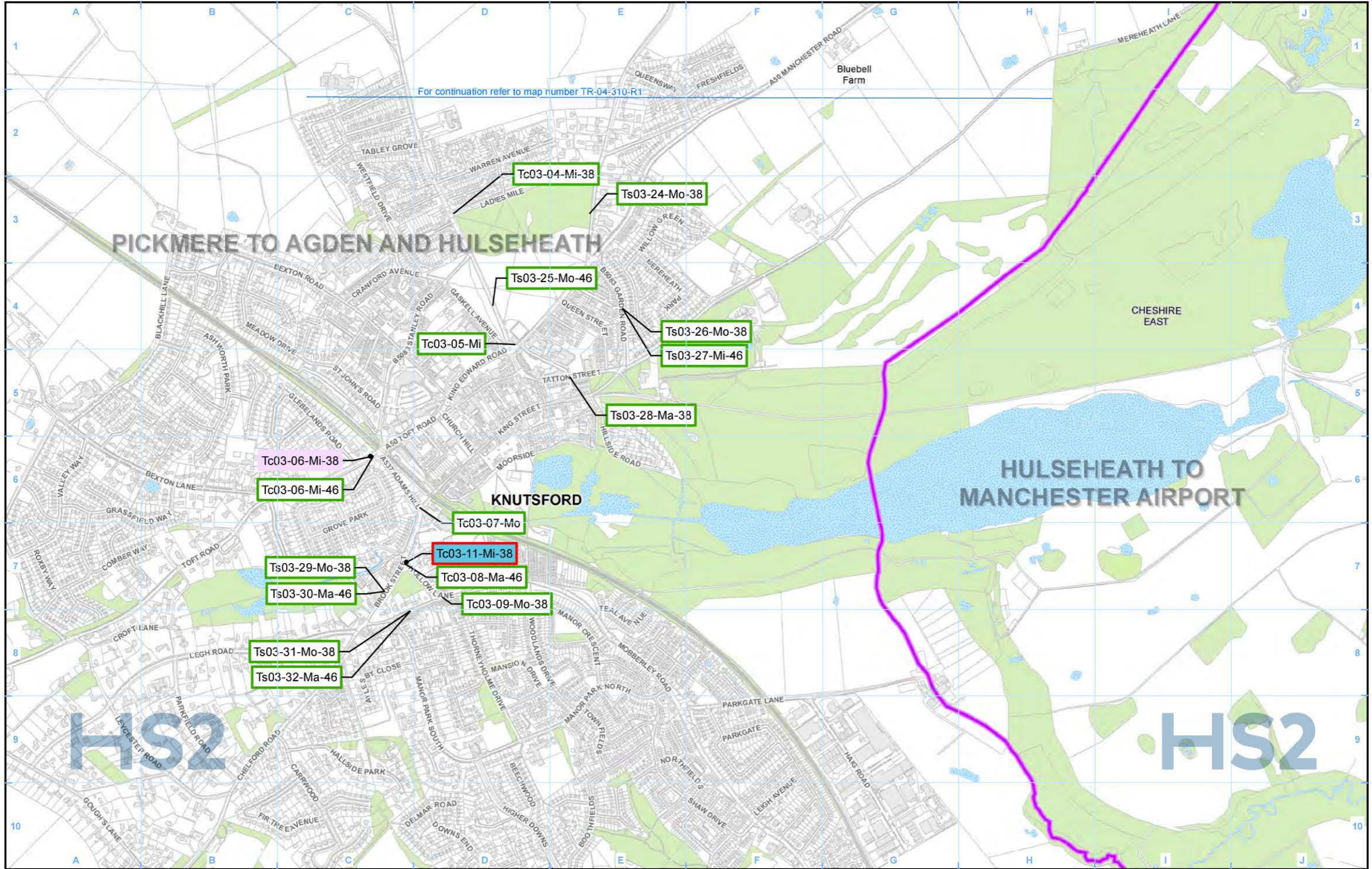
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Date: 22/04/22



For continuation refer to map number TR-04-310-R1

Legend		Operational significant effects arising from the SES/AP:		Operational significant effects unchanged from the SES/AP:	
	Route in tunnel		Adverse, permanent		Adverse, permanent
	Route on surface		Adverse, temporary		Adverse, temporary
	Depot, station, headhouse or portal building		Beneficial, temporary		Beneficial, temporary
	Community area boundary		Beneficial, permanent		Beneficial, permanent
	County boundary				
	District/Borough boundary				
	Watercourse				
	Water body				
	Woodland				

For full legend please refer to TR-04 legend page.

Map Number	TR-04-310-R2
Map Name	Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES
	Community Area MA03: Pickmere to Agden and Hulseheath

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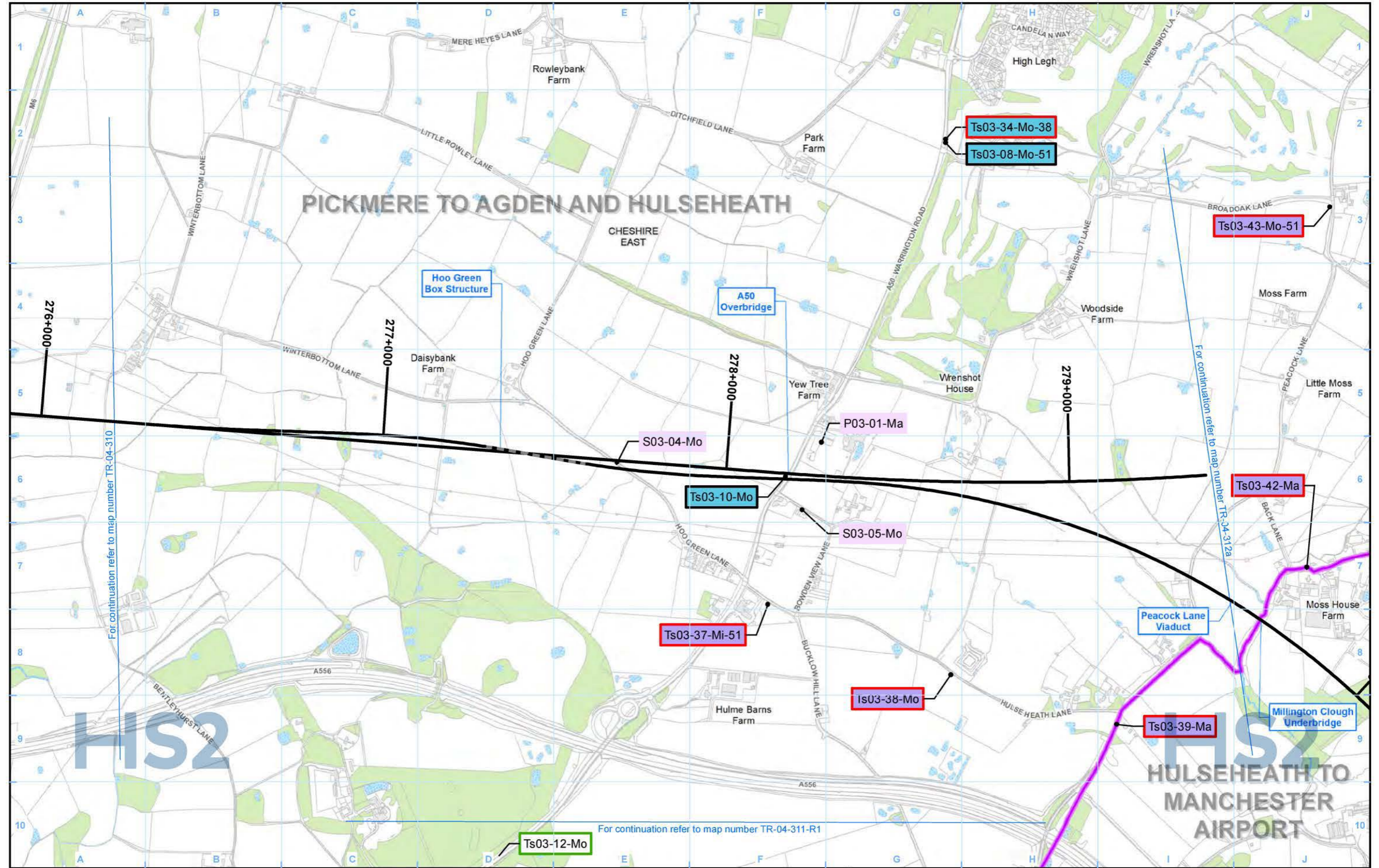
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Metres

Date: 22/04/22



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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-311

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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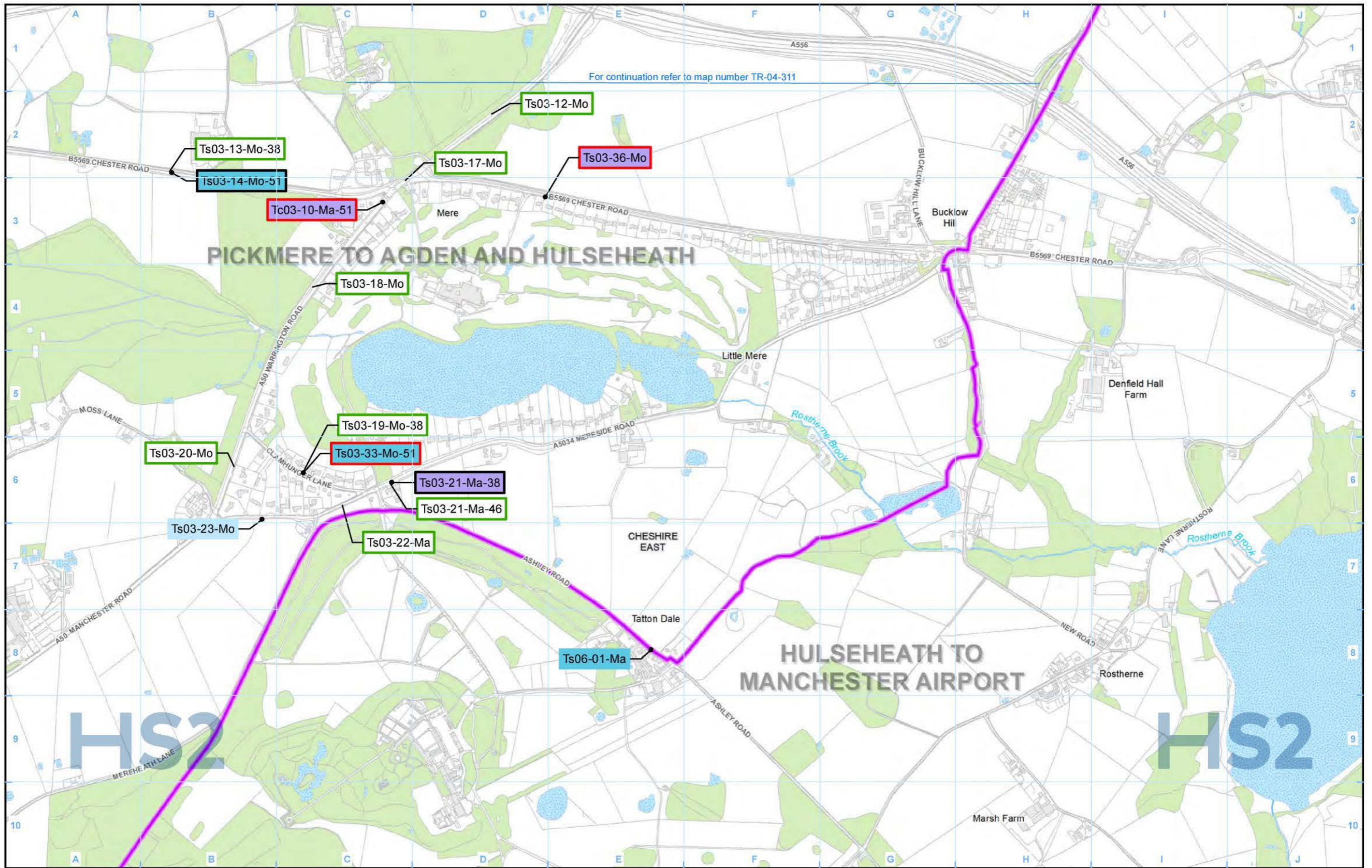
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Metres



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

For full legend please refer to TR-04 legend page.

Map Number: TR-04-311-R1

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

HS2

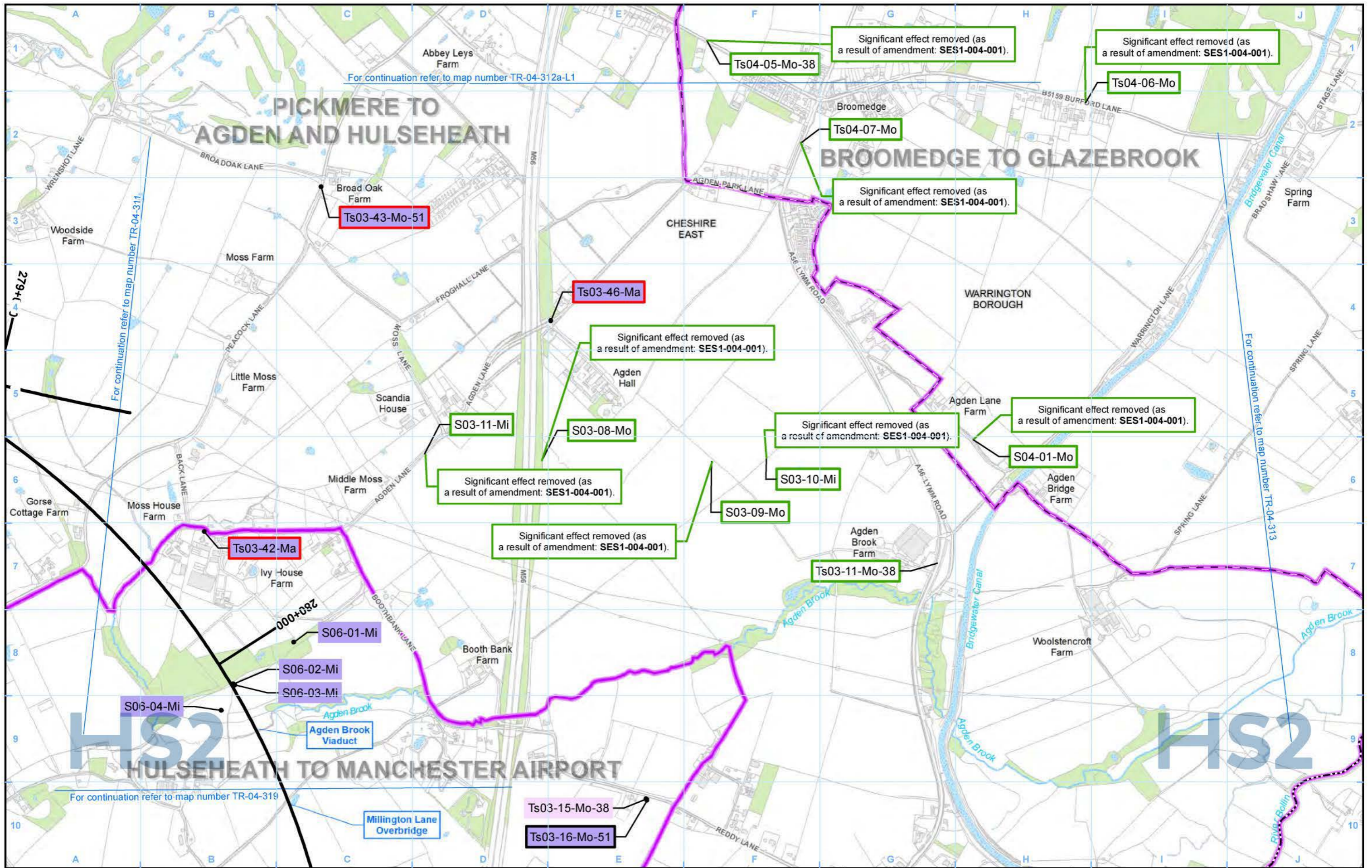
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Scale at A3: 1:10,000

Doc Number: 2PT24-MWJ-EV-MAP-M000-002650-P01

Date: 22/04/22



Legend

		Operational significant effects arising from the SES/AP:	Operational significant effects unchanged from the SES/AP:

For full legend please refer to TR-04 legend page.

Map Number	TR-04-312a
Map Name	Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES
	Community Area MA03: Pickmere to Agden and Hulseheath

HS2

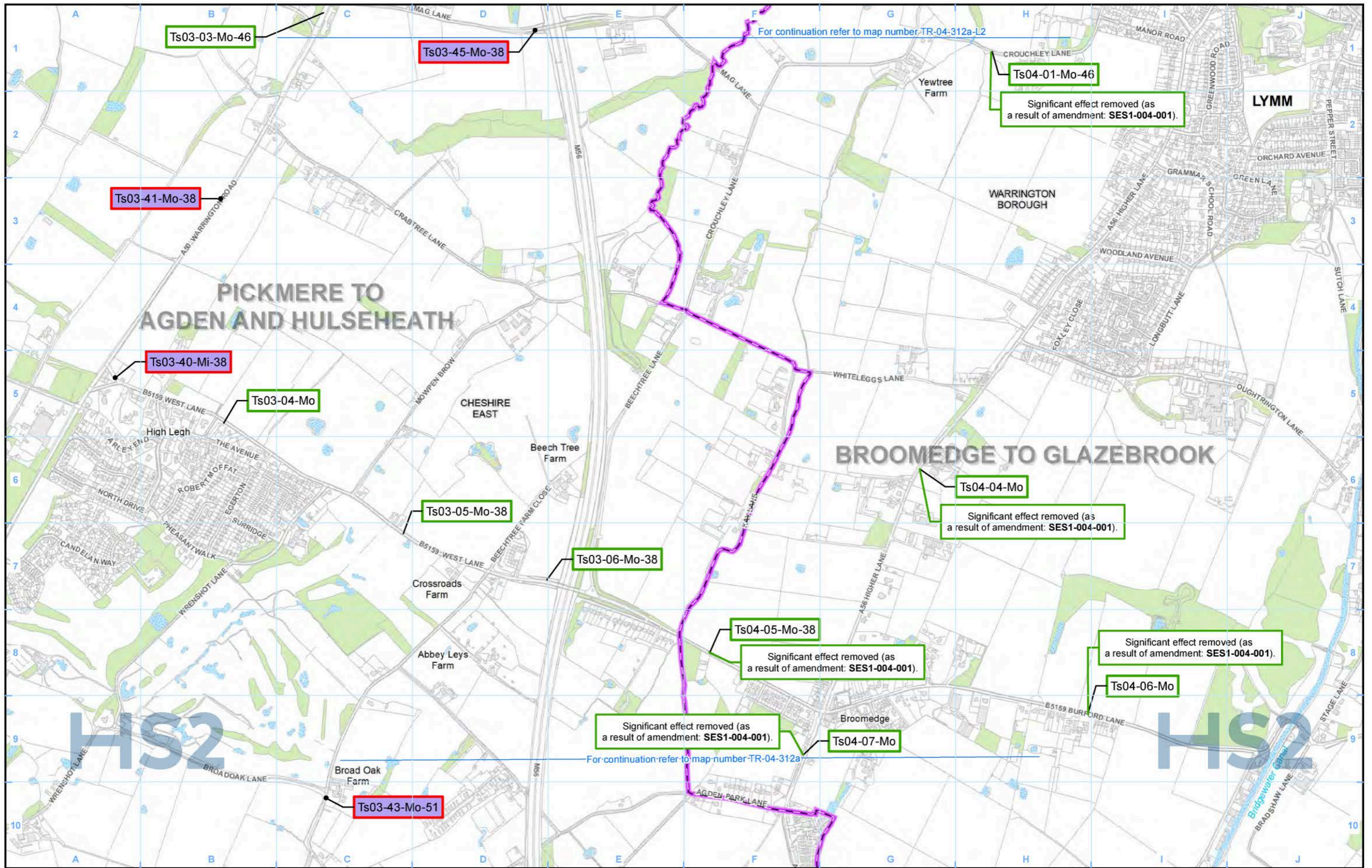
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002202-P01

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Date: 22/04/22



Legend

		Operational significant effects arising from the SES/AP:		

Operational significant effects unchanged from the SES/AP:

For full legend please refer to TR-04 legend page.

Map Number	TR-04-312a-L1
Map Name	Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES
	Community Area MA03: Pickmere to Agden and Hulseheath

HS2

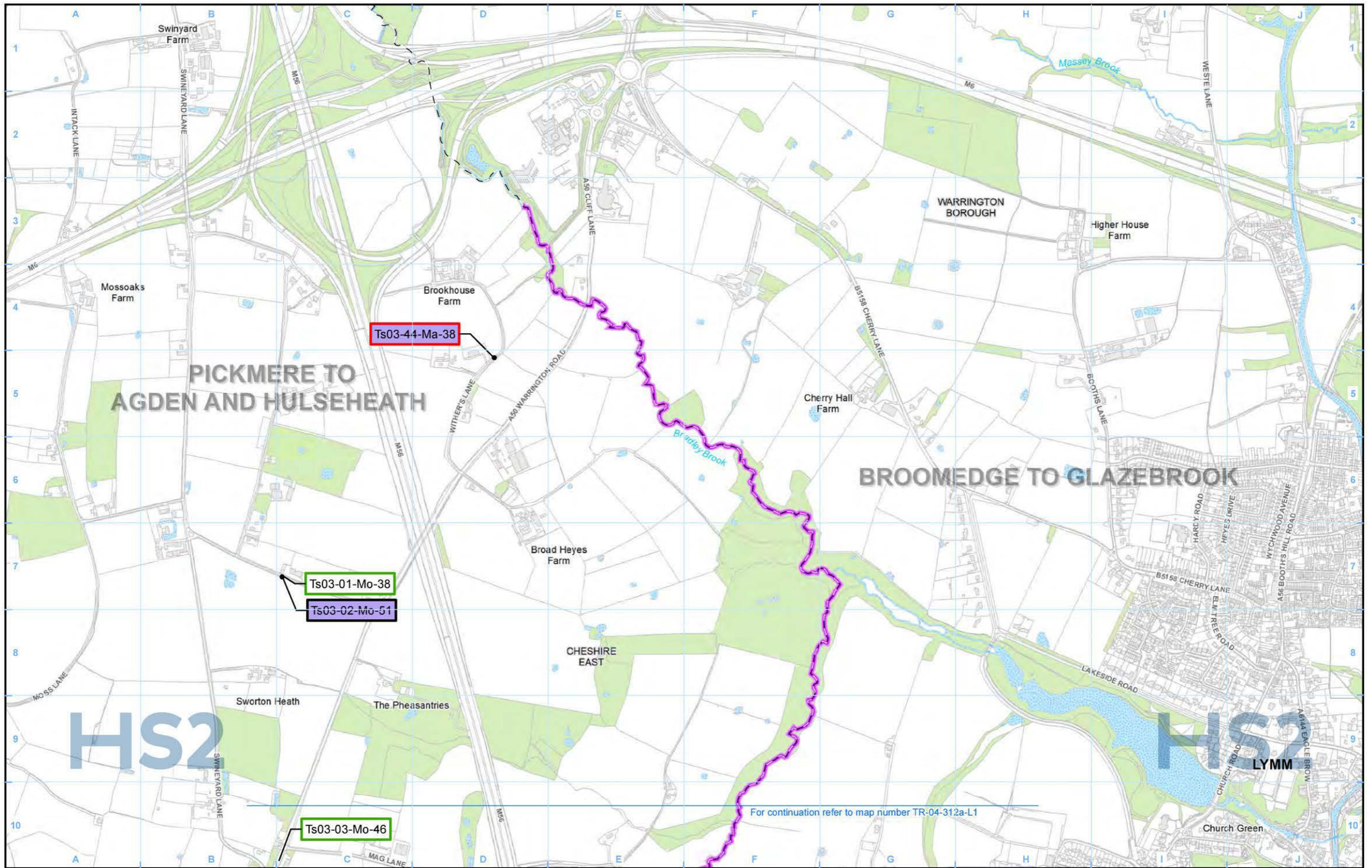
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002646-P01

Scale at A3: 1:10,000

Date: 22/04/22



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

- Watercourse
- Water body
- Woodland

- Operational significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Operational significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-04 legend page.

Map Number: TR-04-312a-L2

Map Name: Significant Residual Transport Effects Arising from Operation SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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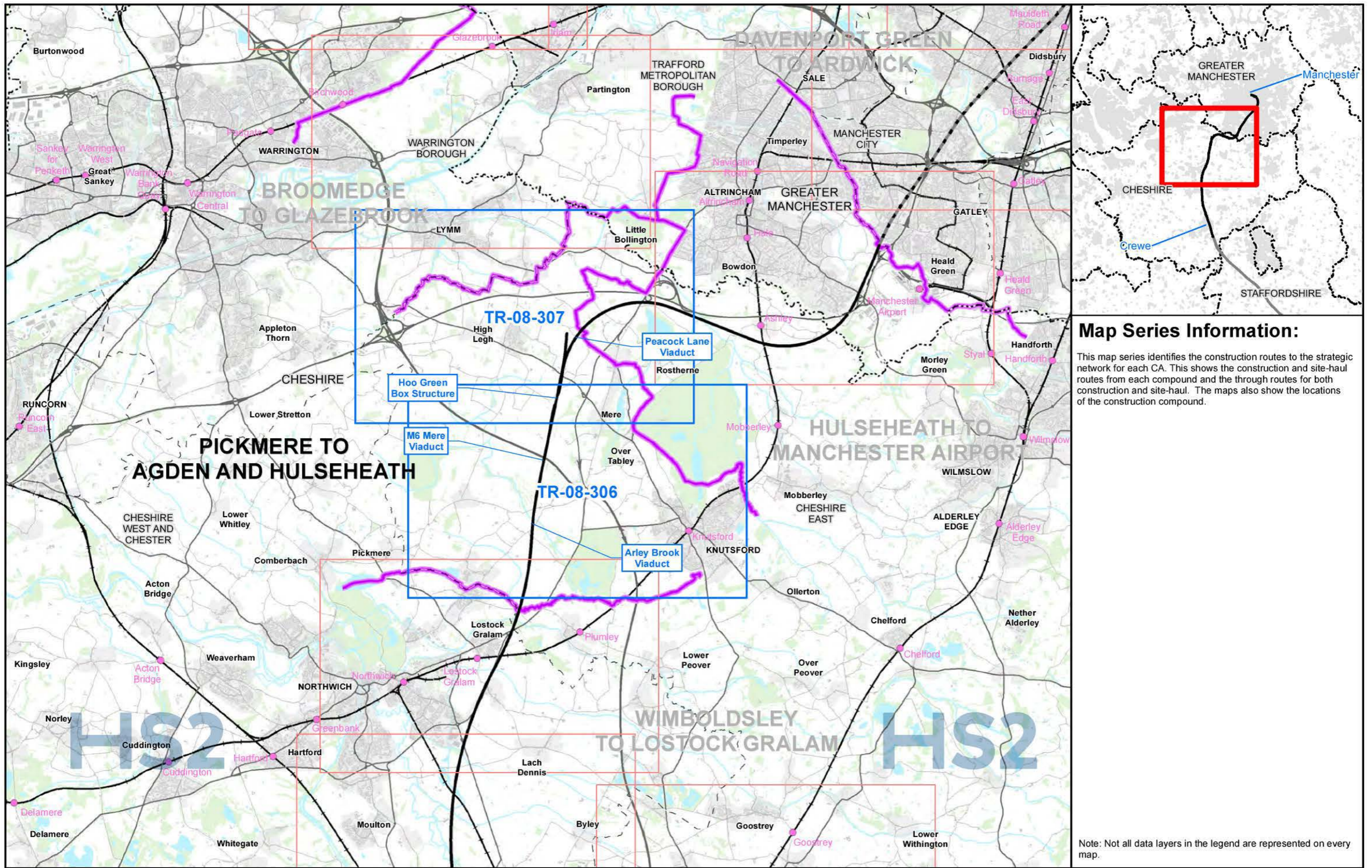
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002651-P01

Scale at A3: 1:10,000

Metres

Date: 22/04/22



Map Series Information:

This map series identifies the construction routes to the strategic network for each CA. This shows the construction and site-haul routes from each compound and the through routes for both construction and site-haul. The maps also show the locations of the construction compound.

- 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 included in this community area with no amendment
 - Map sheets not included in this community area

Map Number: TR-08-INDEX-MA03

Map Name: Index Map of: Construction Routes to the Strategic Network SES1 and AP1 ES

Community Area MA03: Pickmere to Agden and Hulseheath

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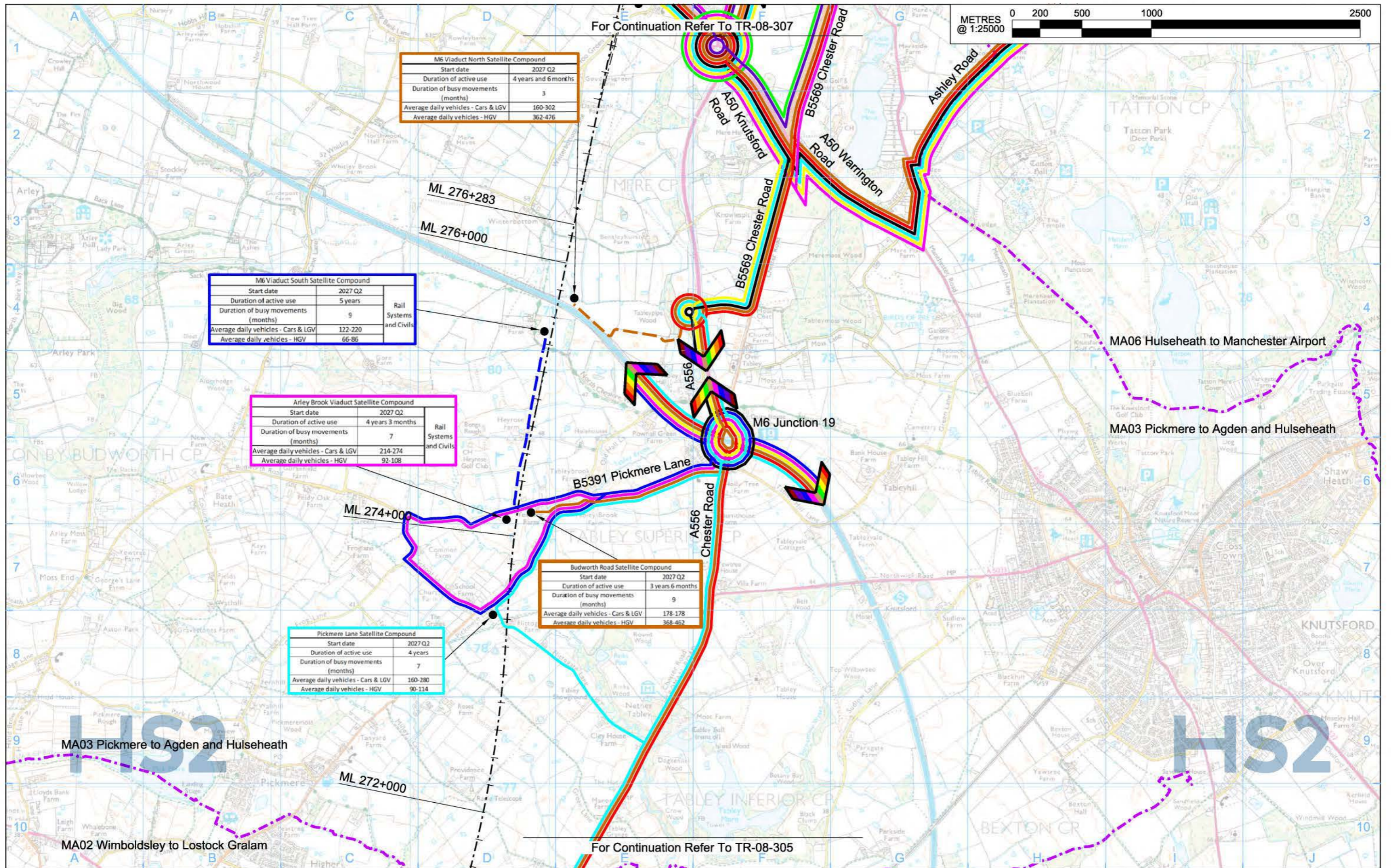
Doc Number: 2PT24-MWJ-EV-MAP-M000-002237-P01

Date: 19/04/22

Scale at A3: 1:100,000

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

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



M6 Viaduct North Satellite Compound	
Start date	2027 Q2
Duration of active use	4 years and 6 months
Duration of busy movements (months)	3
Average daily vehicles - Cars & LGV	160-302
Average daily vehicles - HGV	362-476

M6 Viaduct South Satellite Compound		Rail Systems and Civils
Start date	2027 Q2	
Duration of active use	5 years	
Duration of busy movements (months)	9	
Average daily vehicles - Cars & LGV	122-220	
Average daily vehicles - HGV	66-86	

Arley Brook Viaduct Satellite Compound		Rail Systems and Civils
Start date	2027 Q2	
Duration of active use	4 years 3 months	
Duration of busy movements (months)	7	
Average daily vehicles - Cars & LGV	214-274	
Average daily vehicles - HGV	92-108	

Budworth Road Satellite Compound	
Start date	2027 Q2
Duration of active use	3 years 6 months
Duration of busy movements (months)	9
Average daily vehicles - Cars & LGV	178-178
Average daily vehicles - HGV	368-462

Pickmere Lane Satellite Compound	
Start date	2027 Q2
Duration of active use	4 years
Duration of busy movements (months)	7
Average daily vehicles - Cars & LGV	160-280
Average daily vehicles - HGV	90-114

- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

The compound start dates and estimated duration of active use are based on the Indicative Construction Programme included in the volume 2 Community Area reports.
Traffic figures represent two way trips.

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound
For TR08 drawing route see 2PT24-MWJ-TM-DPL-M002-300000

Map Number: **TR-08-306**

Map Name: **Construction Routes to the Strategic Road Network**

Community Area: **MA03 Pickmere to Agden and Hulseheath**

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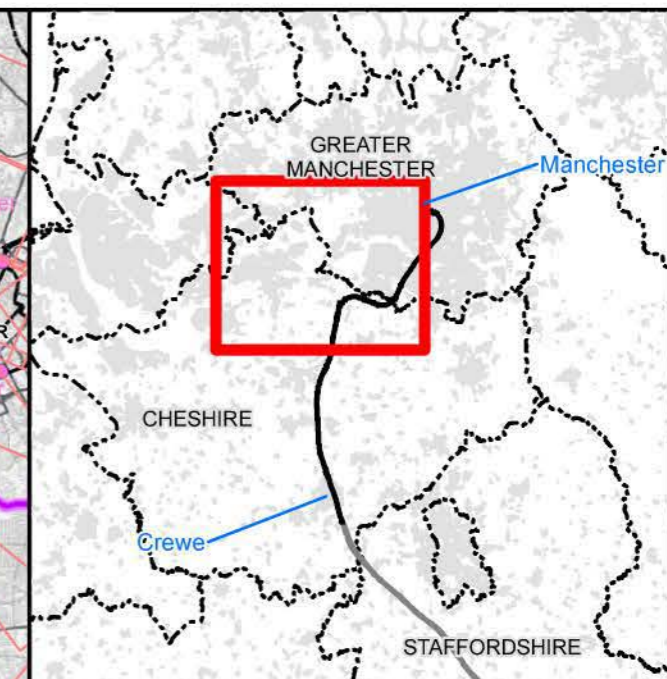
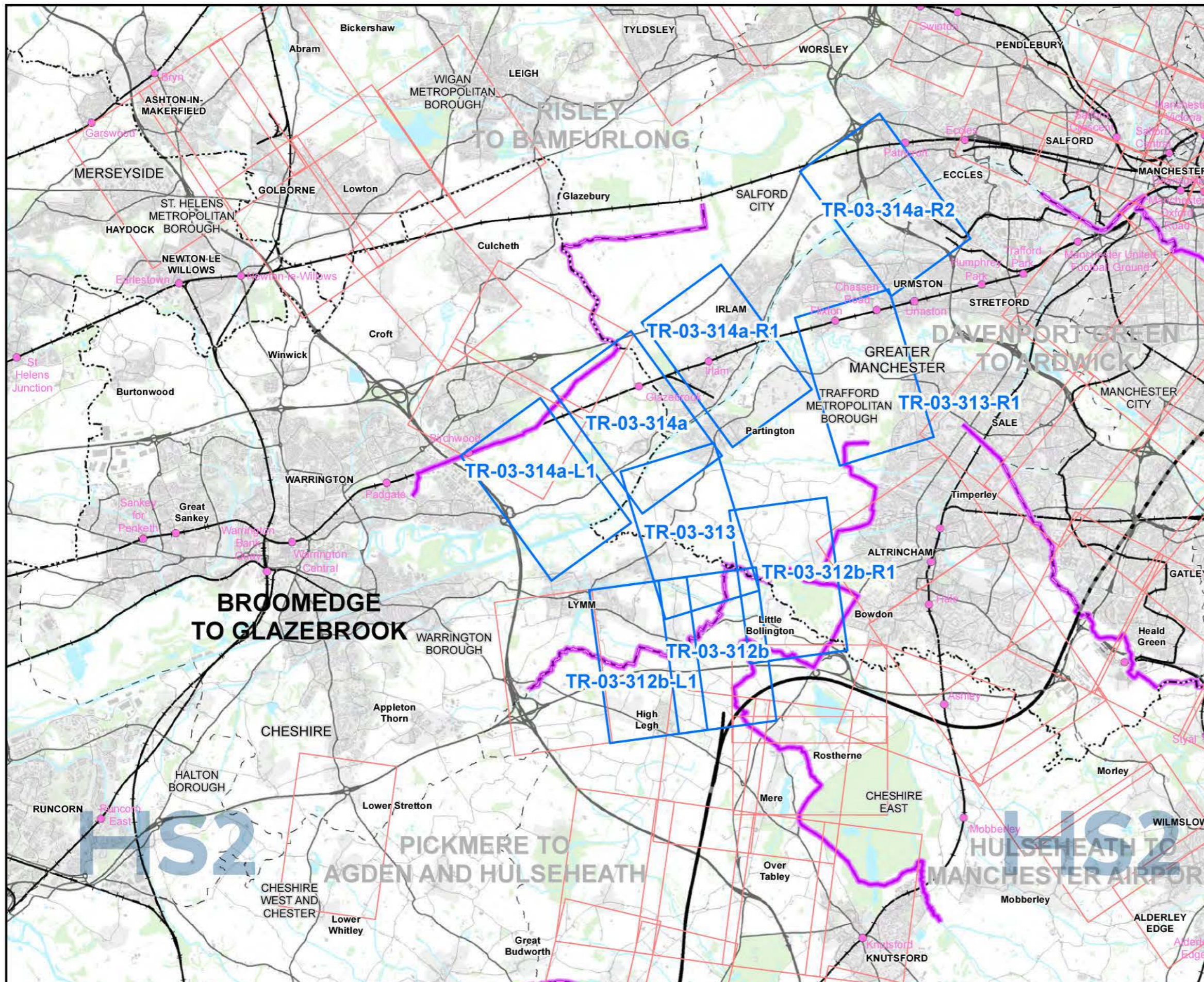
Doc Number: 2PT24-MWJ-TM-DPL-M002-306000 P03 Date: 25/01/22

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

MA04: Broomedge to Glazebrook

TR-03 – Significant Residual Transport Effects Arising during Construction and
Construction Traffic Routes



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

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 included in this community area with no amendment
- Map sheets not included in this community area

Map Number	TR-03-INDEX-MA04
Map Name	Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA04: Broomedge to Glazebrook

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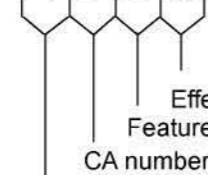
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Doc Number: 2PT24-MWJ-EV-MAP-M000-002181-P01 Date: 18/05/22

Significant effect label:

Significant effect reference:

PT01-01-Mi



Operational effect identifier

Effect level
Feature number

CA number

Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

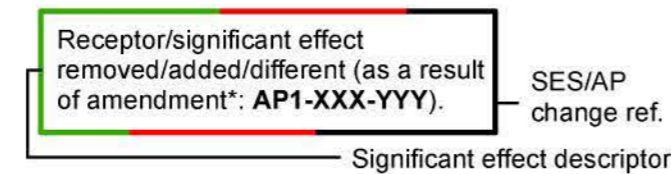
- Mi - Minor
- Mo - Moderate
- Ma - Major

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number TR-03 - Legend

Map Name
TR-03 - Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes - SES1 and AP1 ES

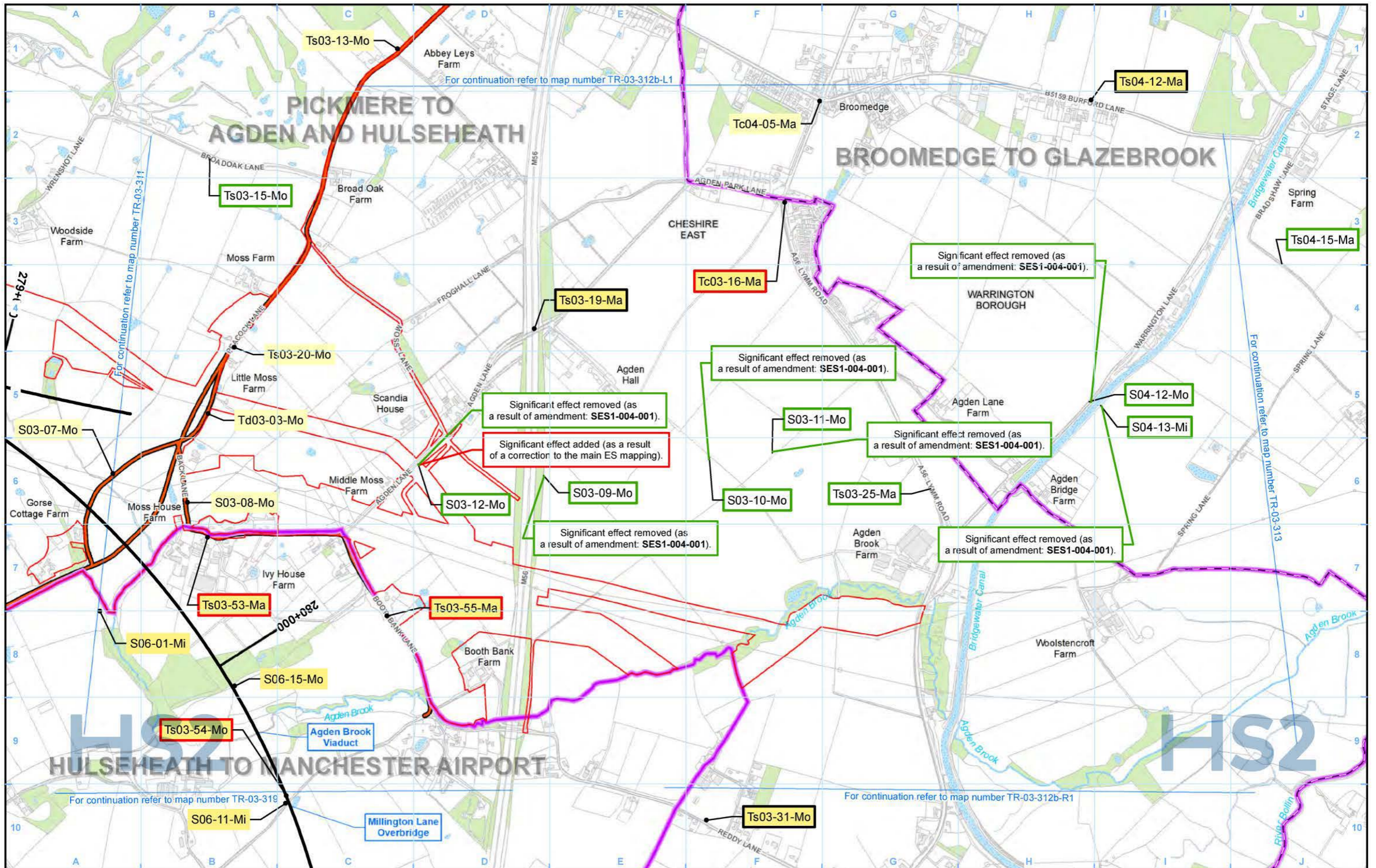


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Doc Number: 2PT24-MWJ-EV-MAP-M000-004135-P01

Date: 18/05/22



Legend

	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		Construction traffic routes
	Community area boundary		
	County boundary		
	District/Borough boundary		

Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:
Adverse, permanent	Adverse, permanent
Adverse, temporary	Adverse, temporary
Beneficial, temporary	Beneficial, temporary
Beneficial, permanent	Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-312b
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area	Community Area MA04: Broomedge to Glazebrook

HS2

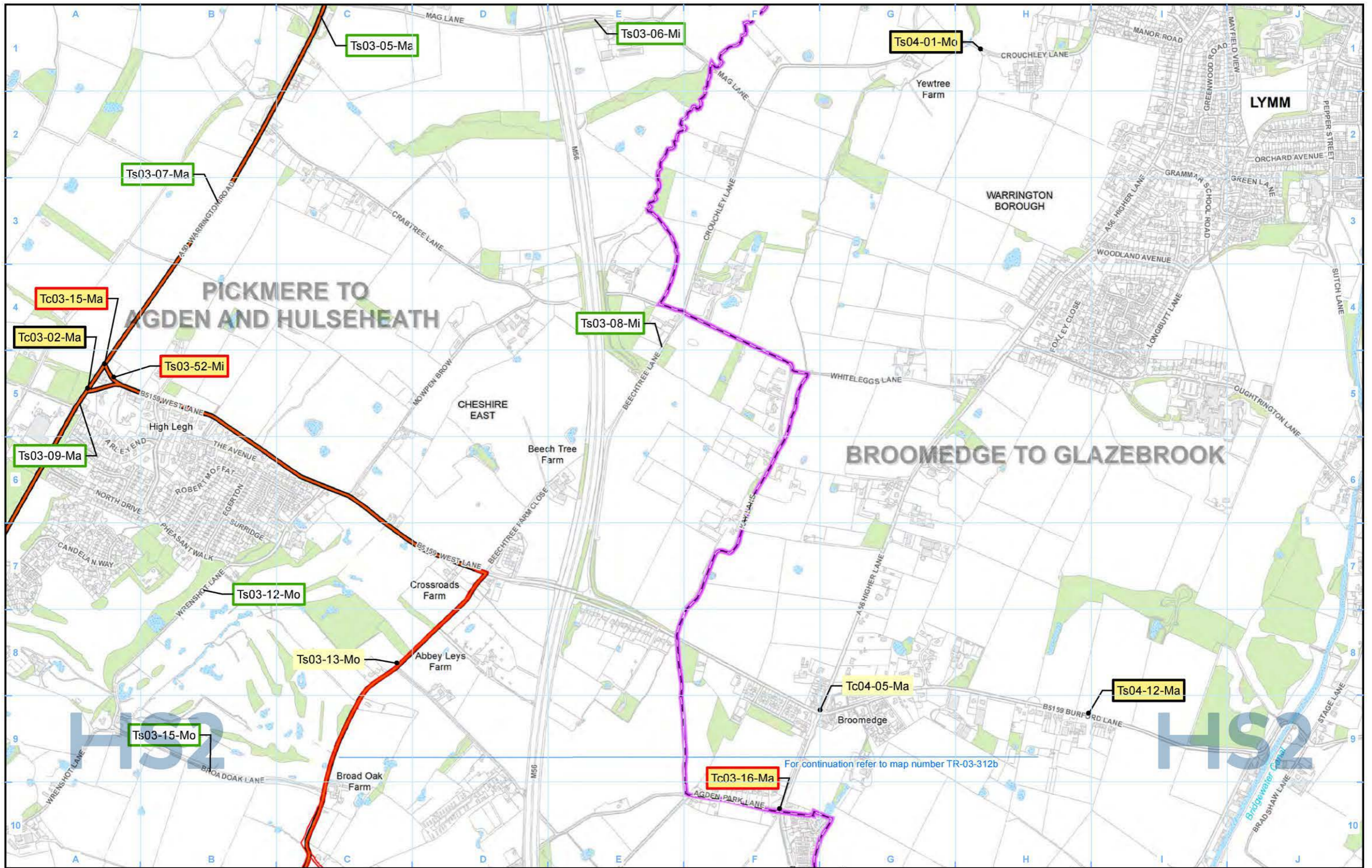
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Date: 18/05/22

Scale at A3: 1:10,000



Legend

	Route in tunnel		Watercourse
	Route on surface		Water body
	Depot, station, headhouse or portal building		Woodland
	Land potentially required during construction		Construction traffic routes
	Community area boundary		
	County boundary		
	District/Borough boundary		

Construction significant effects unchanged from the SES/AP:	
	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

Construction significant effects arising from the SES/AP:	
	Adverse, permanent
	Adverse, temporary
	Beneficial, temporary
	Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-312b-L1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA04: Broomedge to Glazebrook

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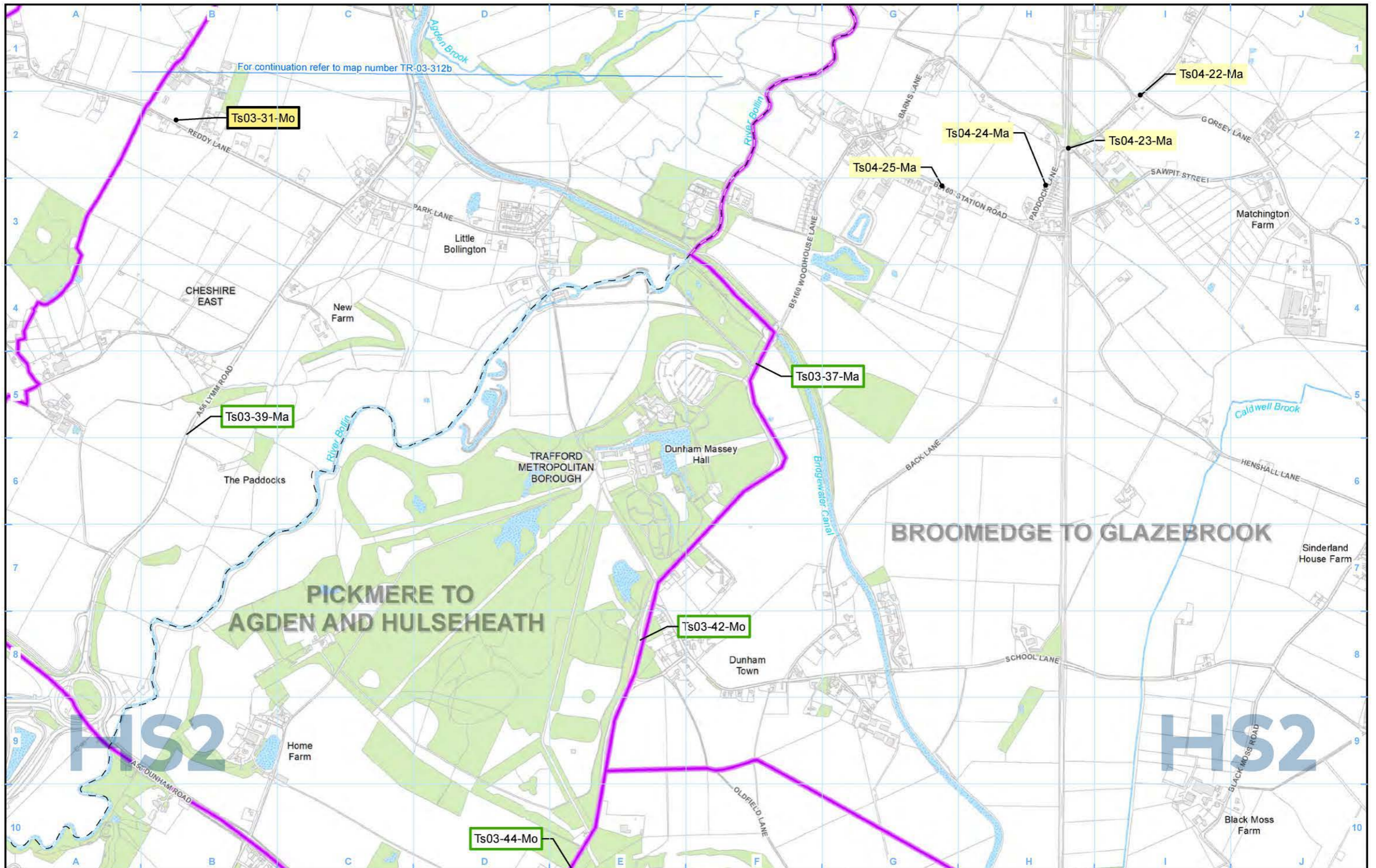
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Doc Number: 2PT24-MWJ-EV-MAP-M000-004067-P01

Date: 18/05/22

Scale at A3: 1:10,000

Metres



Legend

Route in tunnel	Watercourse	Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:	For full legend please refer to TR-03 legend page.
Route on surface	Water body			
Depot, station, headhouse or portal building	Woodland	Adverse, permanent	Adverse, permanent	
Land potentially required during construction	Construction traffic routes	Adverse, temporary	Adverse, temporary	
Community area boundary		Beneficial, temporary	Beneficial, temporary	
County boundary		Beneficial, permanent	Beneficial, permanent	
District/Borough boundary				

Map Number: TR-03-312b-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA04: Broomedge to Glazebrook

HS2

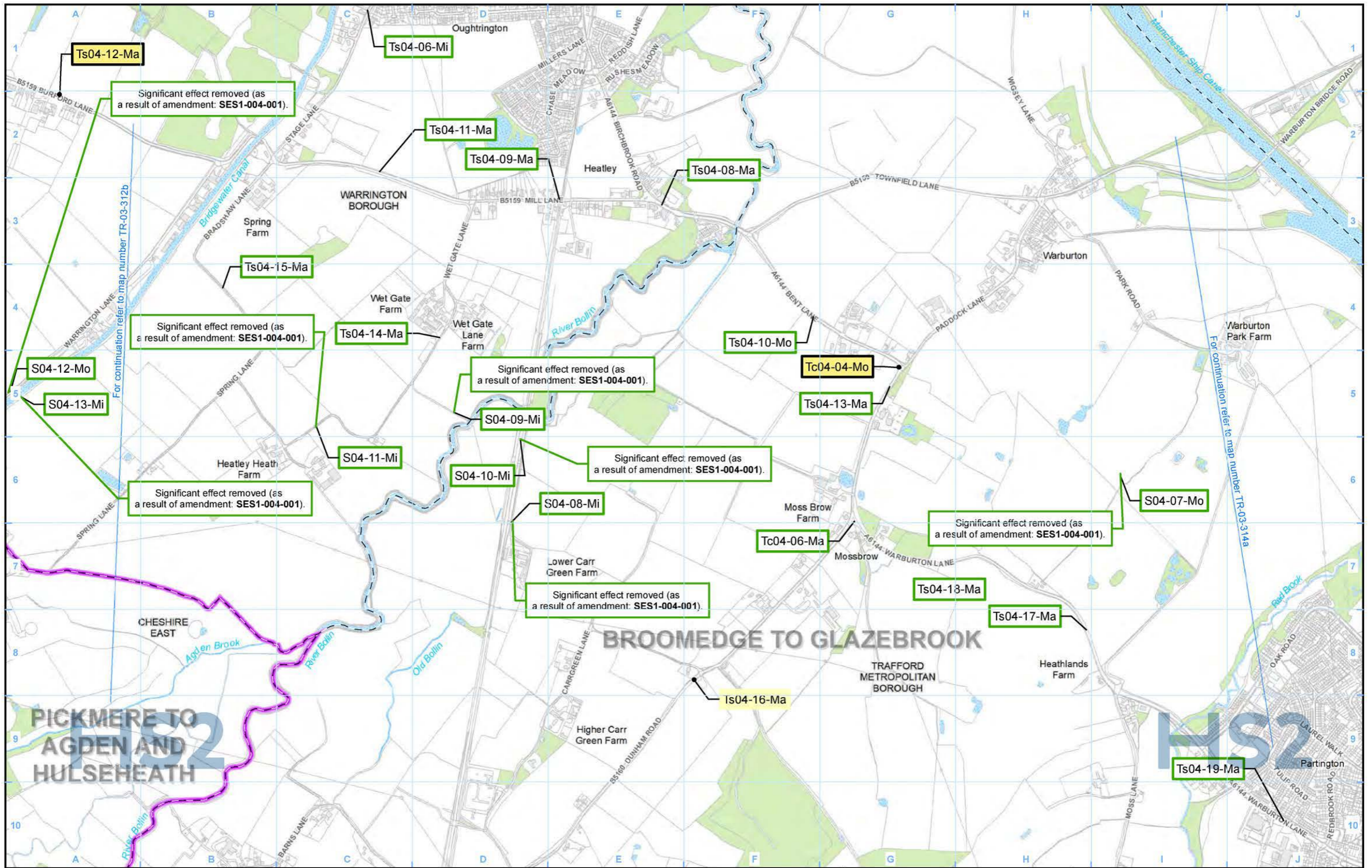
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Scale at A3: 1:10,000

Date: 18/05/22



Legend

For full legend please refer to TR-03 legend page.

Map Number	TR-03-313
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA04: Broomedge to Glazebrook

HS2

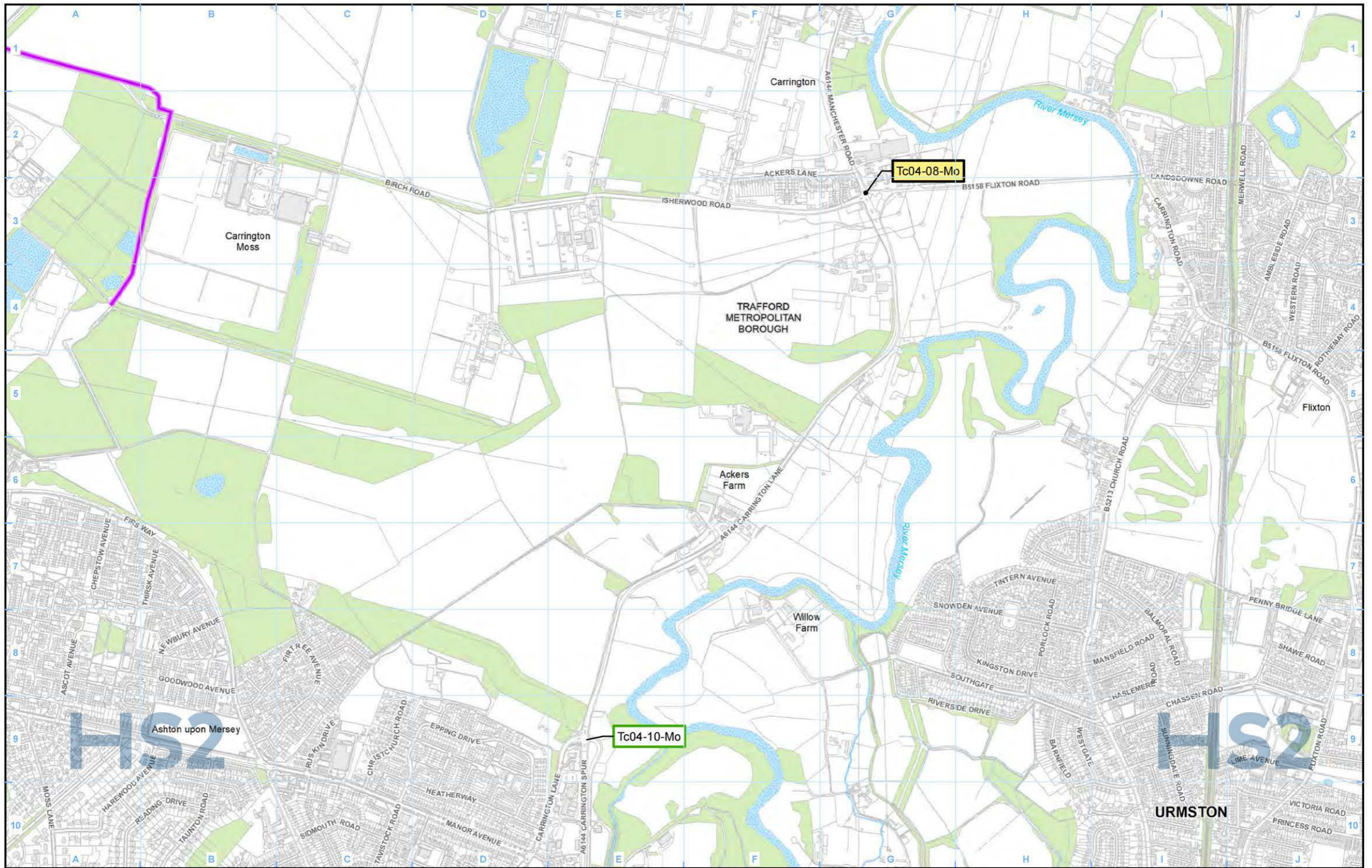
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Date: 18/05/22

Scale at A3: 1:10,000



Legend

		Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:

For full legend please refer to TR-03 legend page.

Map Number	TR-03-313-R1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA04: Broomedge to Glazebrook

HS2

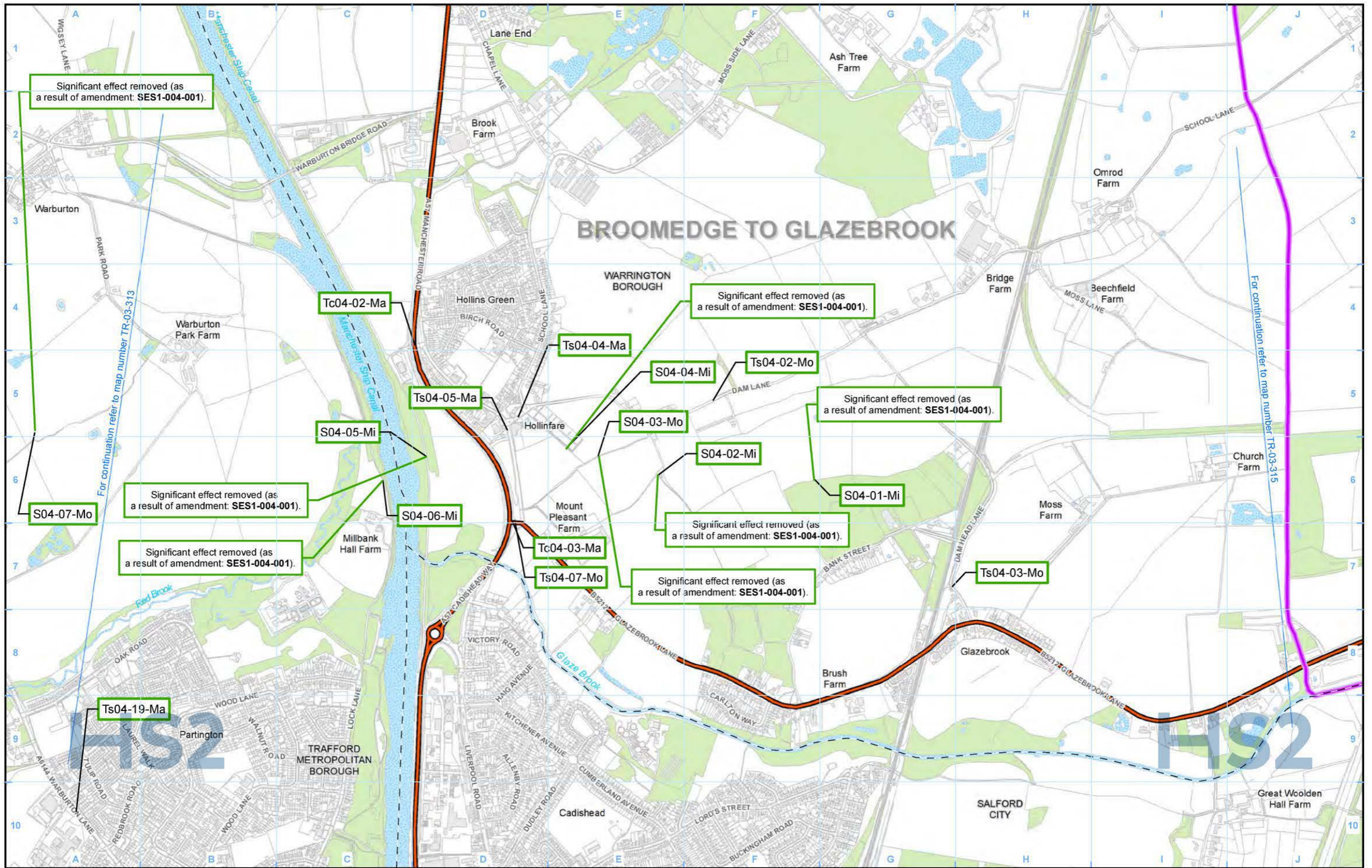
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Scale at A3: 1:10,000

Date: 18/05/22



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 County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland Construction traffic routes 	<p>Construction significant effects unchanged from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 	<p>Construction significant effects arising from the SES/AP:</p> <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent
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For full legend please refer to TR-03 legend page.

Map Number: TR-03-314a

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA04: Broomedge to Glazebrook

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Date: 18/05/22

Scale at A3: 1:10,000

Metres



BROOMEDGE TO GLAZEBROOK

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-314a-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA04: Broomedge to Glazebrook

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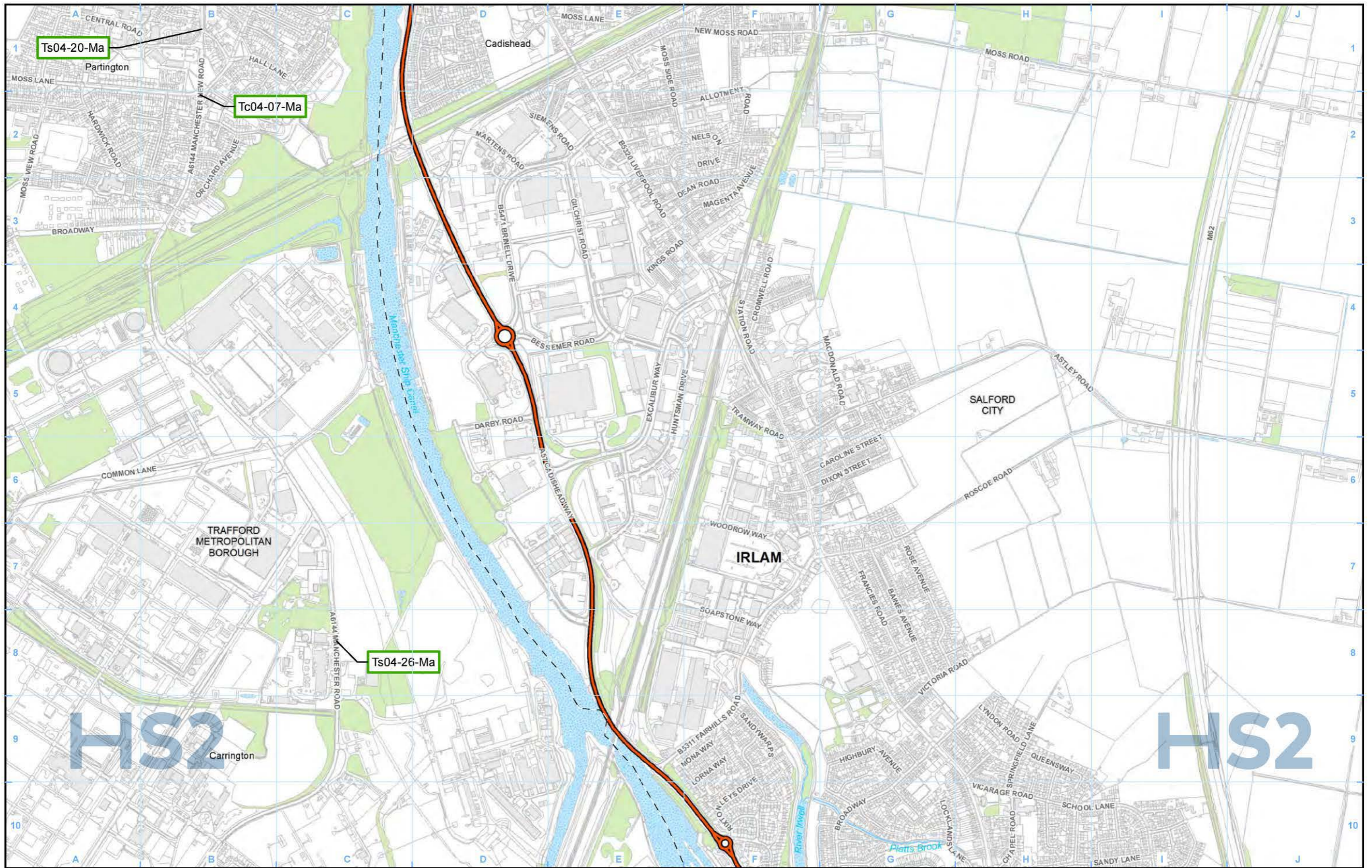
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Date: 18/05/22

Scale at A3: 1:10,000

Metres





Legend

Construction significant effects unchanged from the SES/AP:

Construction significant effects arising from the SES/AP:

For full legend please refer to TR-03 legend page.

Map Number: TR-03-314a-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA04: Broomedge to Glazebrook

HS2

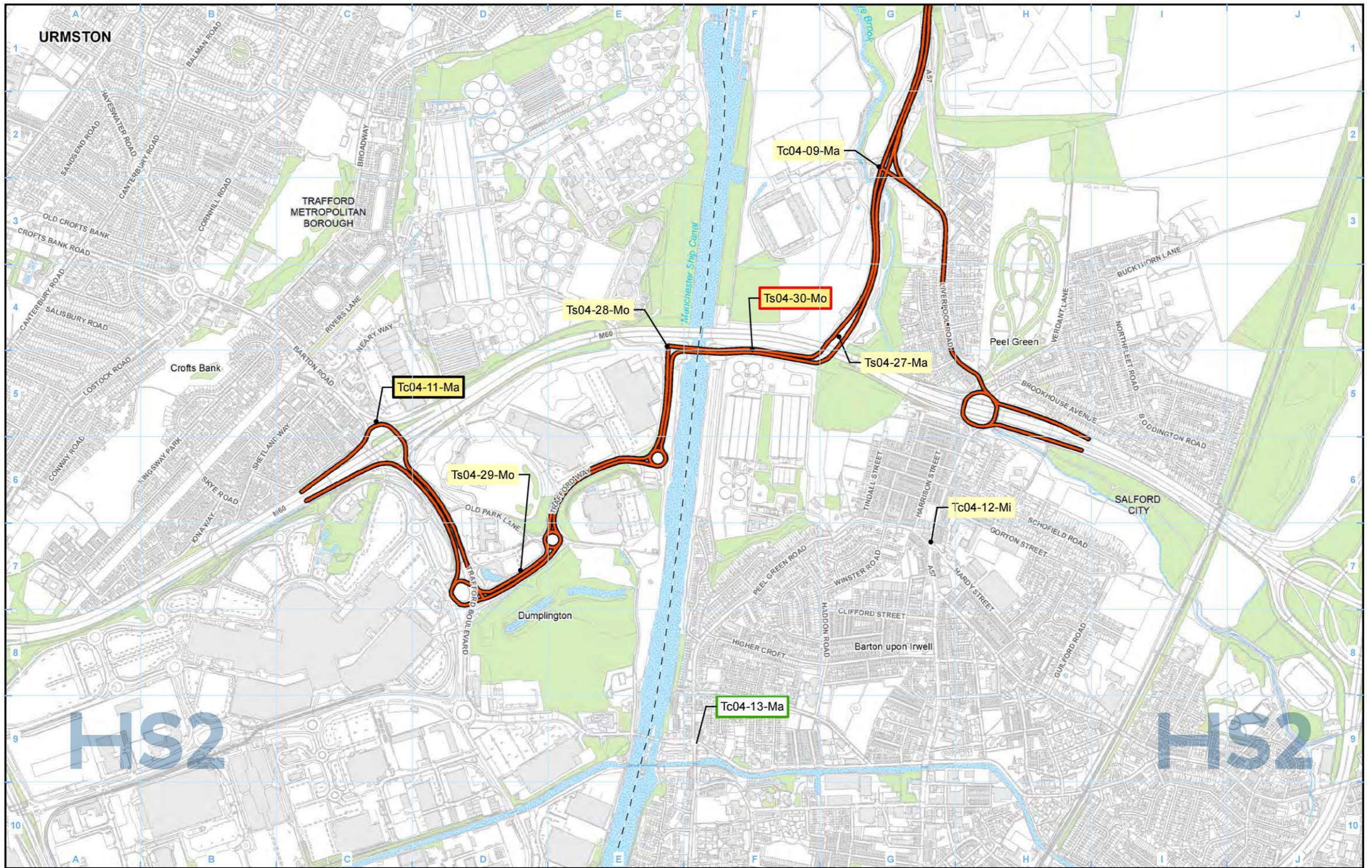
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Date: 18/05/22

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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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-314a-R2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA04: Broomedge to Glazebrook

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Doc Number: 2PT24-MWJ-EV-MAP-M000-004060-P01

Scale at A3: 1:10,000

Metres

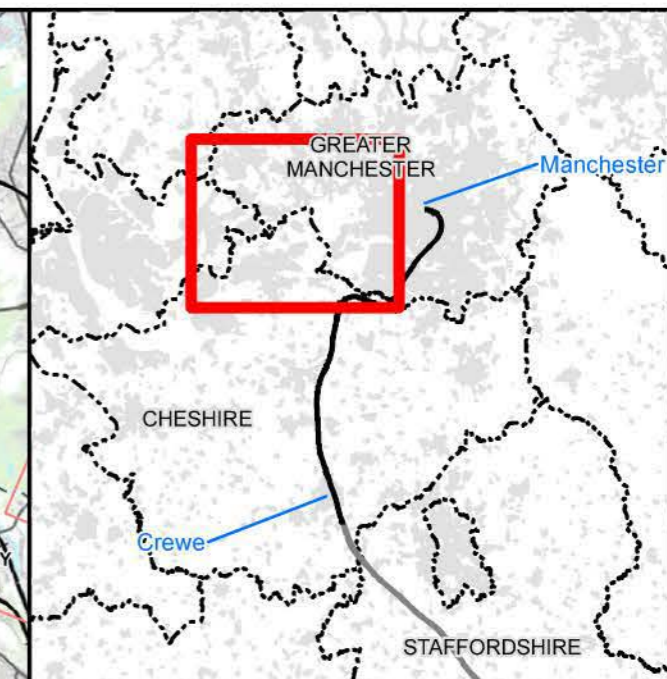
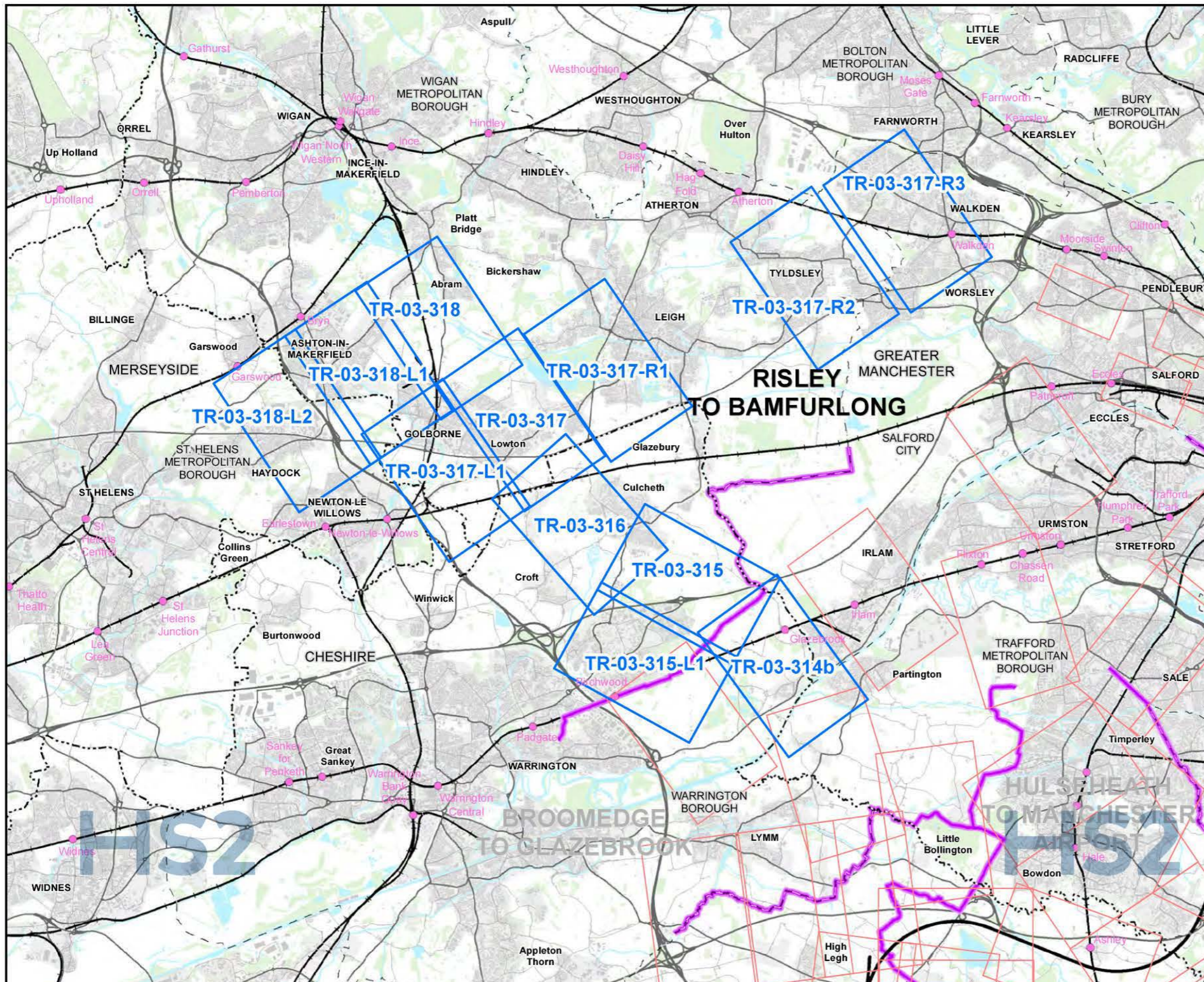
Date: 18/05/22

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement

MA05: Risley to Bamfurlong

TR-03 – Significant Residual Transport Effects Arising during Construction and
Construction Traffic Routes



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

- 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 included in this community area with no amendment
 - Map sheets not included in this community area

Map Number: TR-03-INDEX-MA05

Map Name: Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA05: Risley to Bamfurlong

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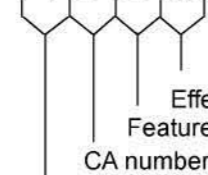
Doc Number: 2PT24-MWJ-EV-MAP-M000-002182-P01

Date: 18/05/22

Significant effect label:

Significant effect reference:

PT01-01-Mi



Operational effect identifier

Effect level
Feature number

CA number

Operational effect identifier:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

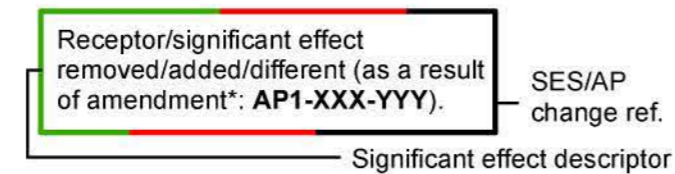
- Mi - Minor
- Mo - Moderate
- Ma - Major

The colour of the border around each significant effect arising from the SES/AP and the significant effect descriptor denotes whether the effect is added or removed or there is a change to the type (i.e. adverse/beneficial) or level of effect (i.e. major/moderate/minor) at SES/AP. Where the colour of the border is black but the type and level of the significant effect are unchanged from the main ES, this denotes that the SES/AP will give rise to a different (increased/decreased) significant effect but will not change the level of significance of the effect reported in the main ES.

- Removed effect
- Added effect
- Different effect

Significant effect descriptor:

Where the change in effect is directly attributable to a specific SES/AP change, this is denoted by the following significant effect descriptor:



Where the change in effect is caused by a combination of SES/AP changes, no significant effect descriptor is provided.

Map Number TR-03 - Legend

Map Name
TR-03 - Significant Residual
Transport Effects Arising
during Construction and
Construction Traffic Routes -
SES1 and AP1 ES

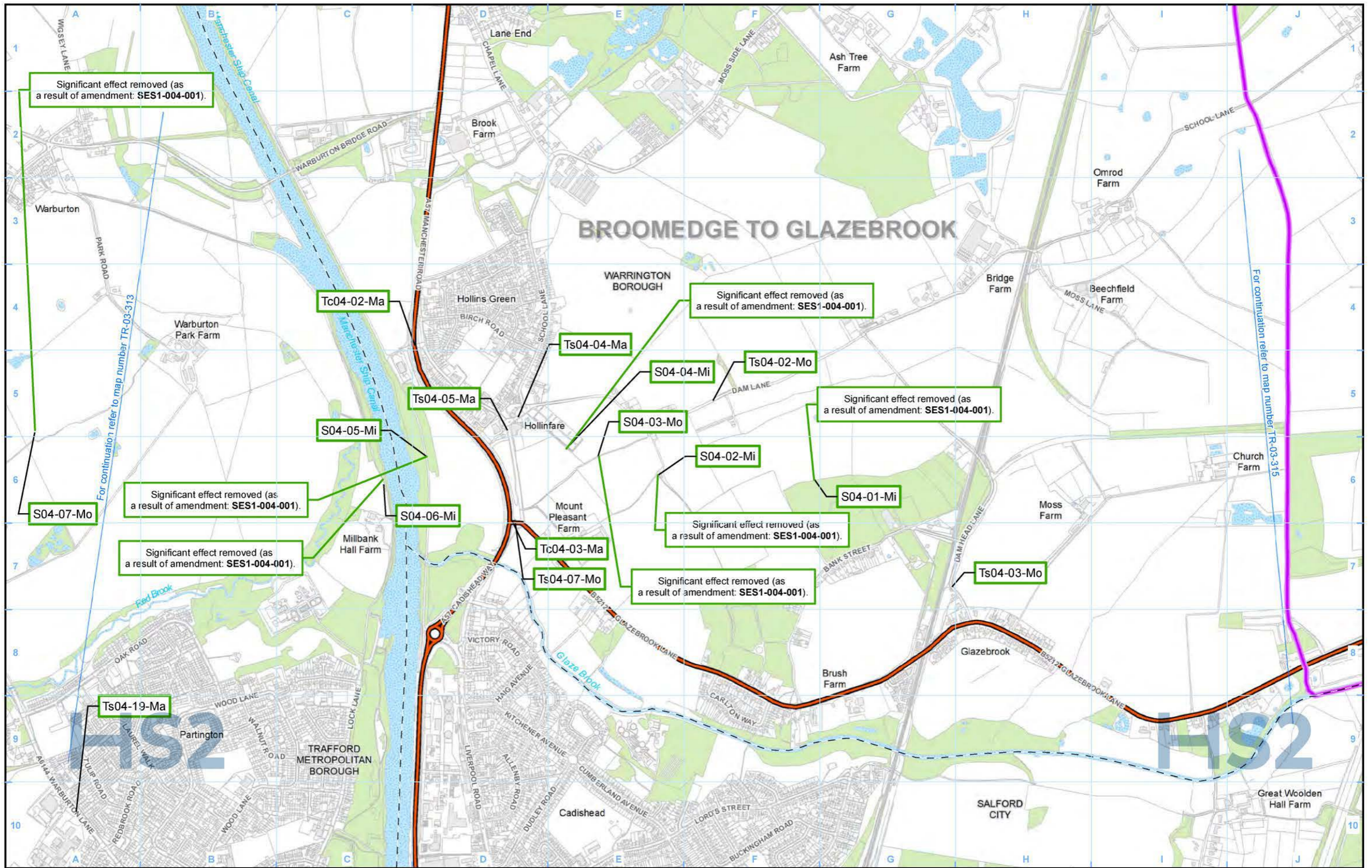


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Doc Number: 2PT24-MWJ-EV-MAP-M000-004135-P01

Date: 18/05/22



Legend

		Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:

For full legend please refer to TR-03 legend page.

Map Number	TR-03-314b
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA05: Risley to Bamfurlong	

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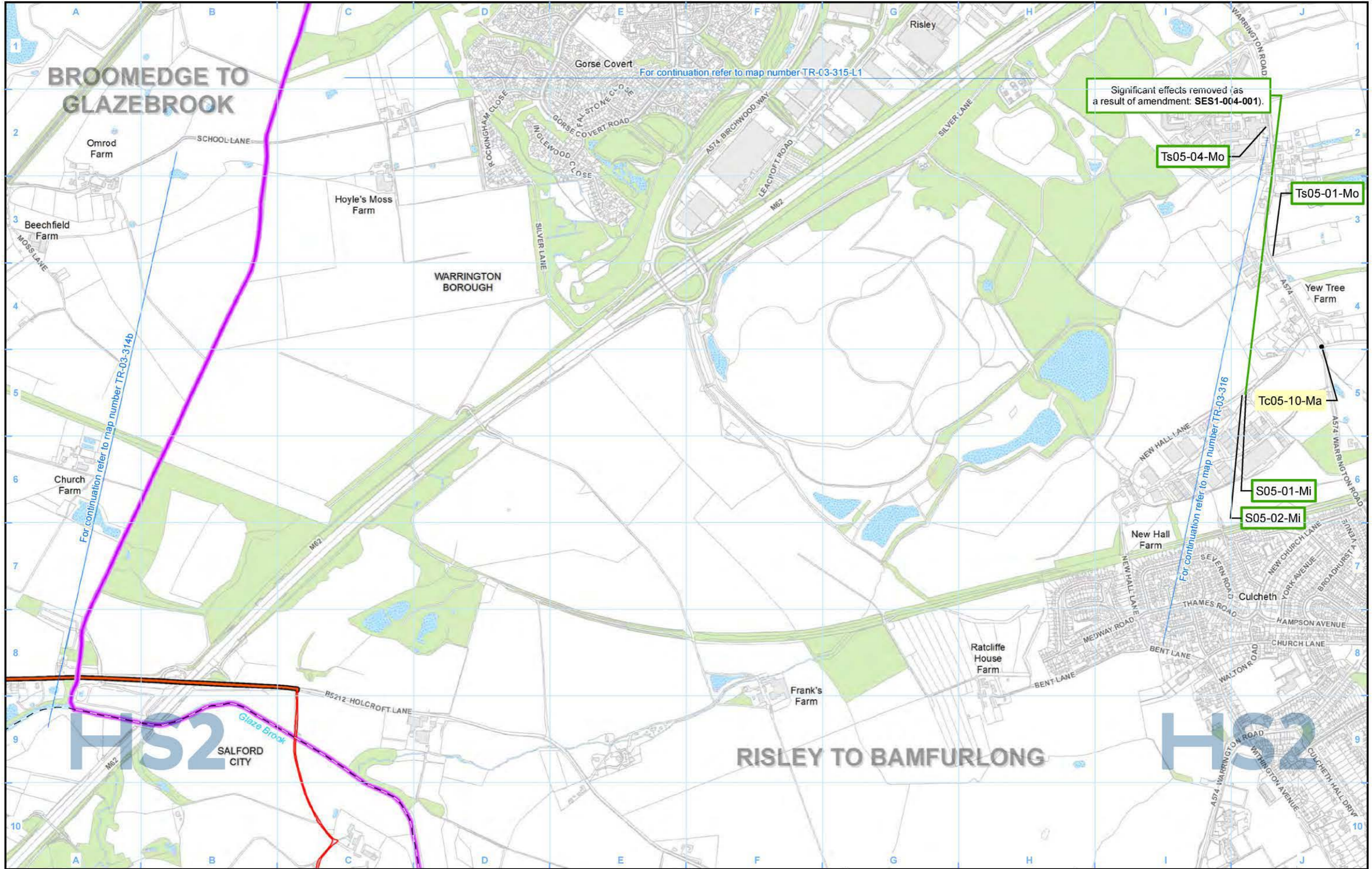
Date: 18/05/22

Scale at A3: 1:10,000

BROOMEDGE TO GLAZEBROOK

For continuation refer to map number TR-03-315-L1

Significant effects removed (as a result of amendment: SES1-004-001).



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
	Construction traffic routes

Construction significant effects unchanged from the SES/AP:		Construction significant effects arising from the SES/AP:	
	Adverse, permanent		Adverse, permanent
	Adverse, temporary		Adverse, temporary
	Beneficial, temporary		Beneficial, temporary
	Beneficial, permanent		Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-315
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA05: Risley to Bamfurlong	

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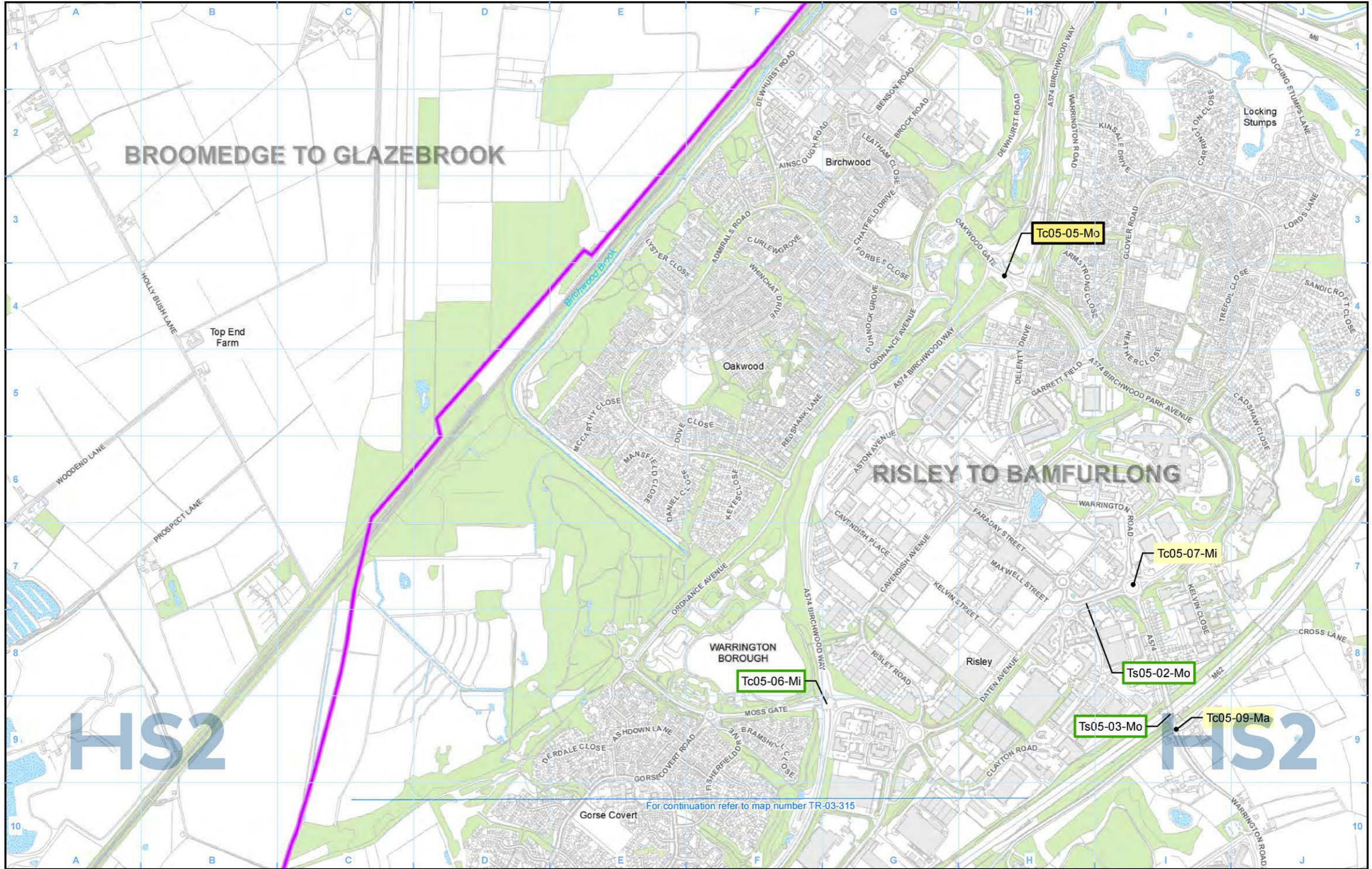
Scale at A3: 1:10,000

Metres

Date: 18/05/22

BROOMEDGE TO GLAZEBROOK

RISLEY TO BAMFURLONG



HS2

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For continuation refer to map number TR-03-315

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-315-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA05: Risley to Bamfurlong

HS2

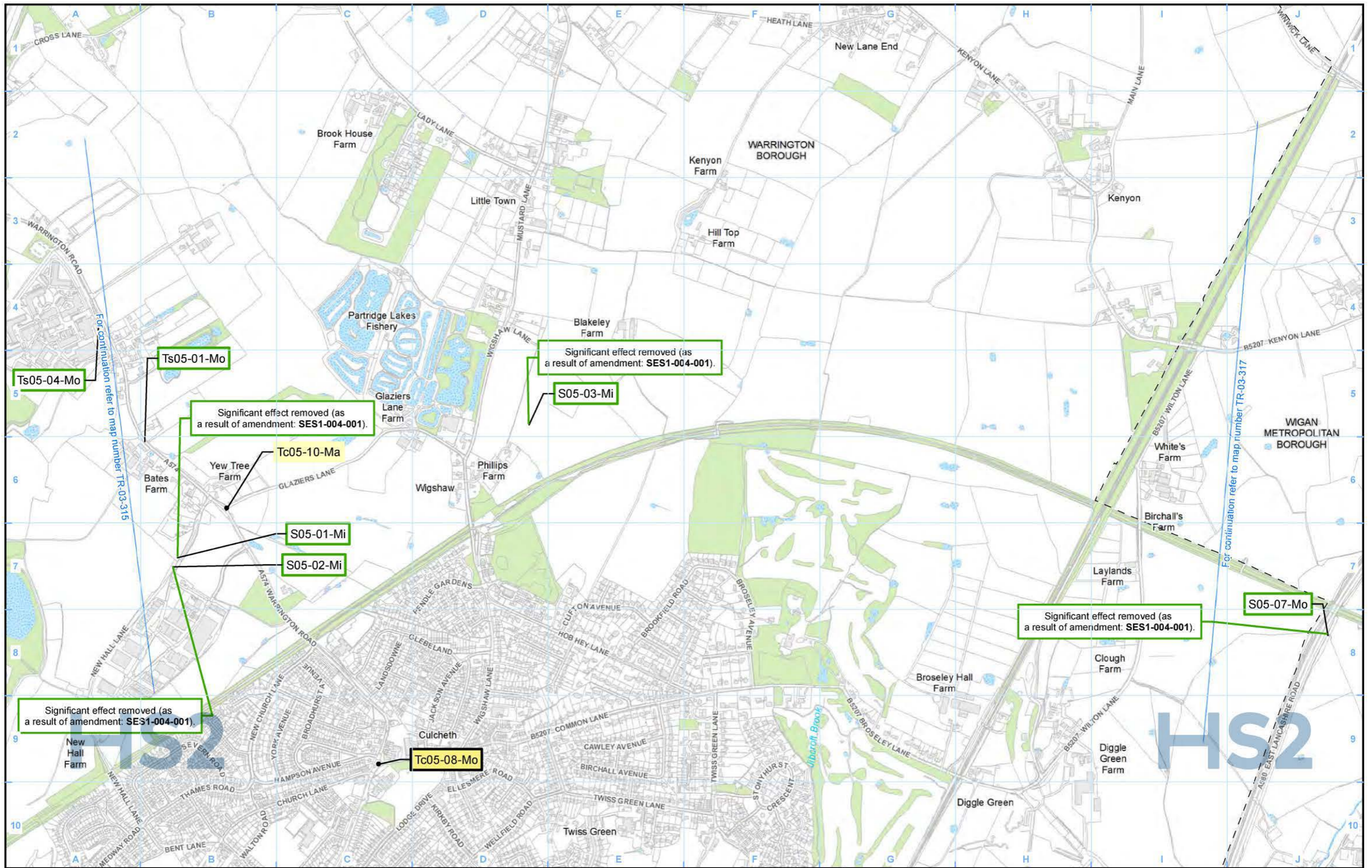
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Legend

		Construction significant effects unchanged from the SES/AP:	Construction significant effects arising from the SES/AP:

For full legend please refer to TR-03 legend page.

Map Number	TR-03-316
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
	Community Area MA05: Risley to Bamfurlong

HS2

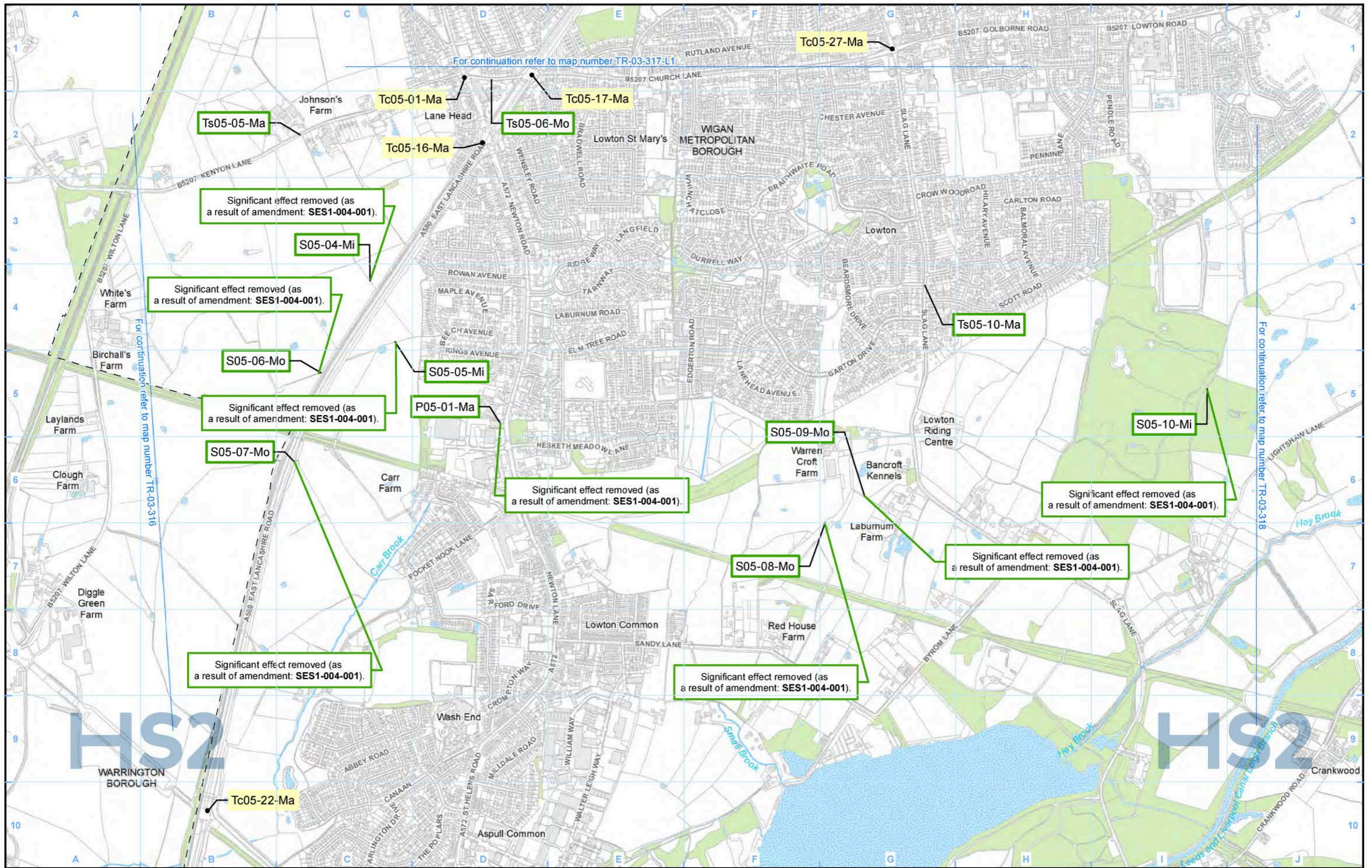
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Date: 18/05/22



For continuation refer to map number TR-03-317-L1

For continuation refer to map number TR-03-316

For continuation refer to map number TR-03-318

- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-317
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA05:	Risley to Bamfurlong

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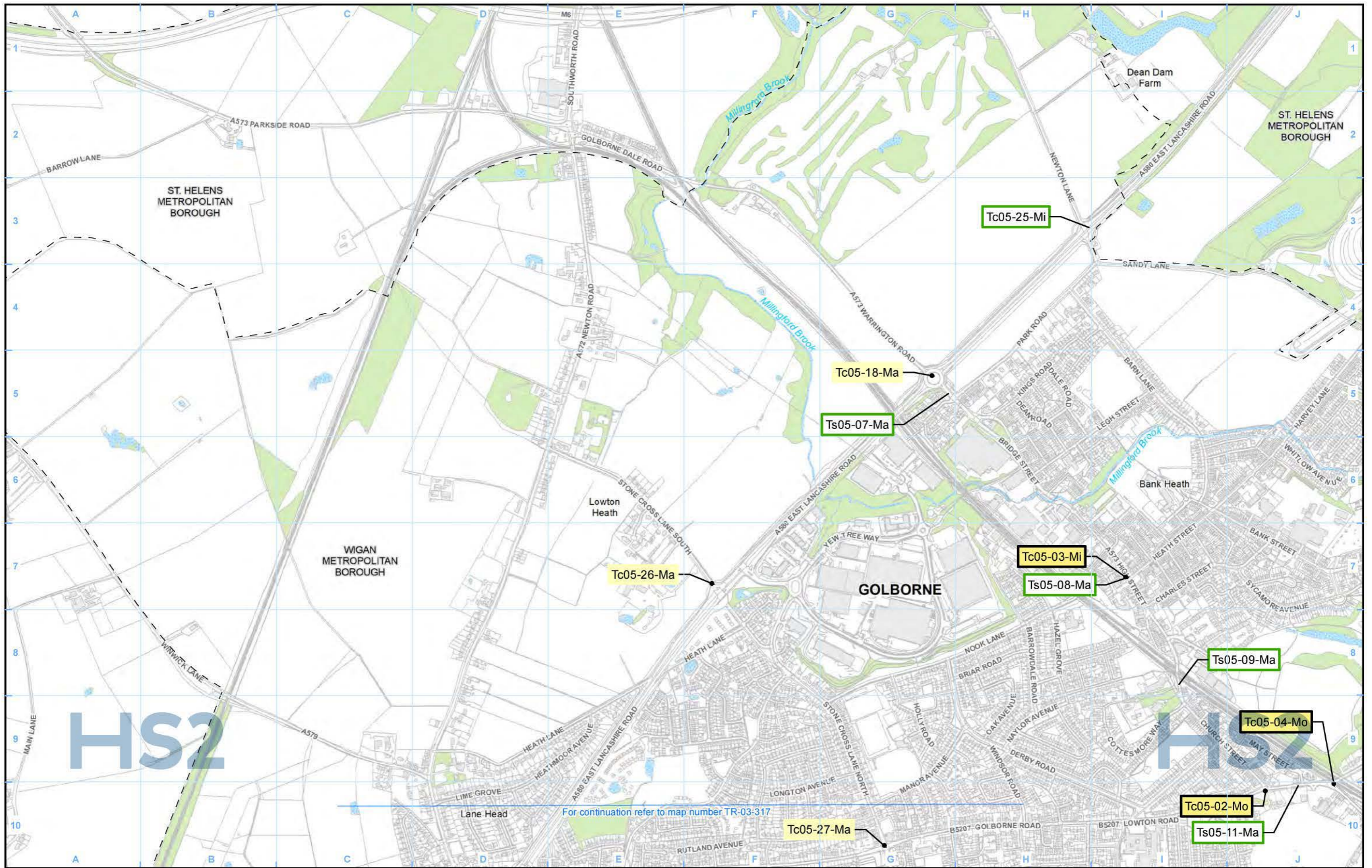
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Scale at A3: 1:10,000

Metres

Date: 18/05/22



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
	Construction traffic routes

Construction significant effects unchanged from the SES/AP:		Construction significant effects arising from the SES/AP:	
	Adverse, permanent		Adverse, permanent
	Adverse, temporary		Adverse, temporary
	Beneficial, temporary		Beneficial, temporary
	Beneficial, permanent		Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-317-L1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA05: Risley to Bamfurlong	

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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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

- Construction significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-317-R1
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA05: Risley to Bamfurlong	

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Metres

Date: 18/05/22



- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-317-R2
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA05: Risley to Bamfurlong	

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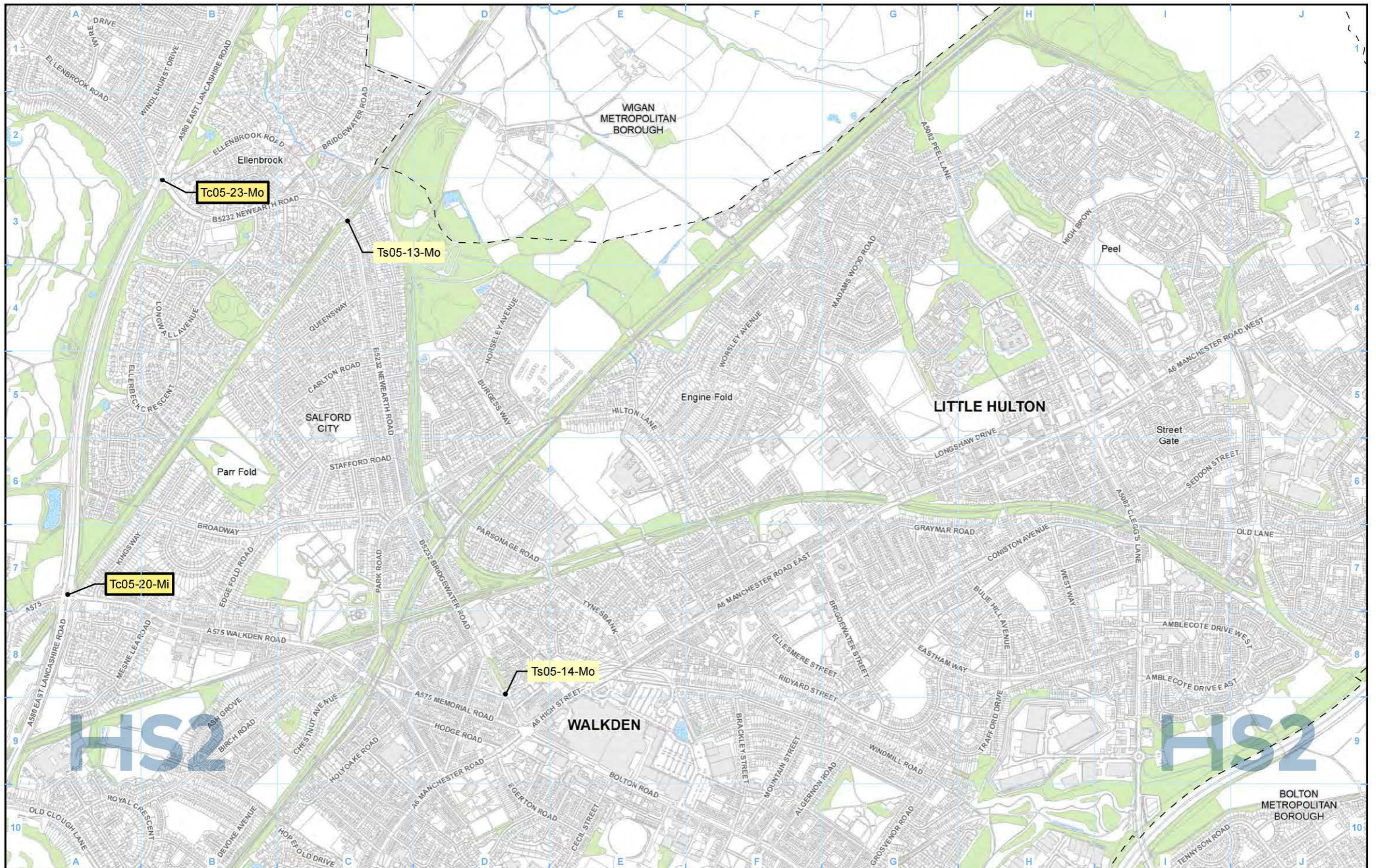
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Scale at A3: 1:10,000

Metres

Date: 18/05/22



Legend

Construction significant effects unchanged from the SES/AP:

Adverse, permanent
Adverse, temporary
Beneficial, temporary
Beneficial, permanent

Construction significant effects arising from the SES/AP:

Adverse, permanent
Adverse, temporary
Beneficial, temporary
Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number	TR-03-317-R3
Map Name	Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES
Community Area MA05: Risley to Bamfurlong	

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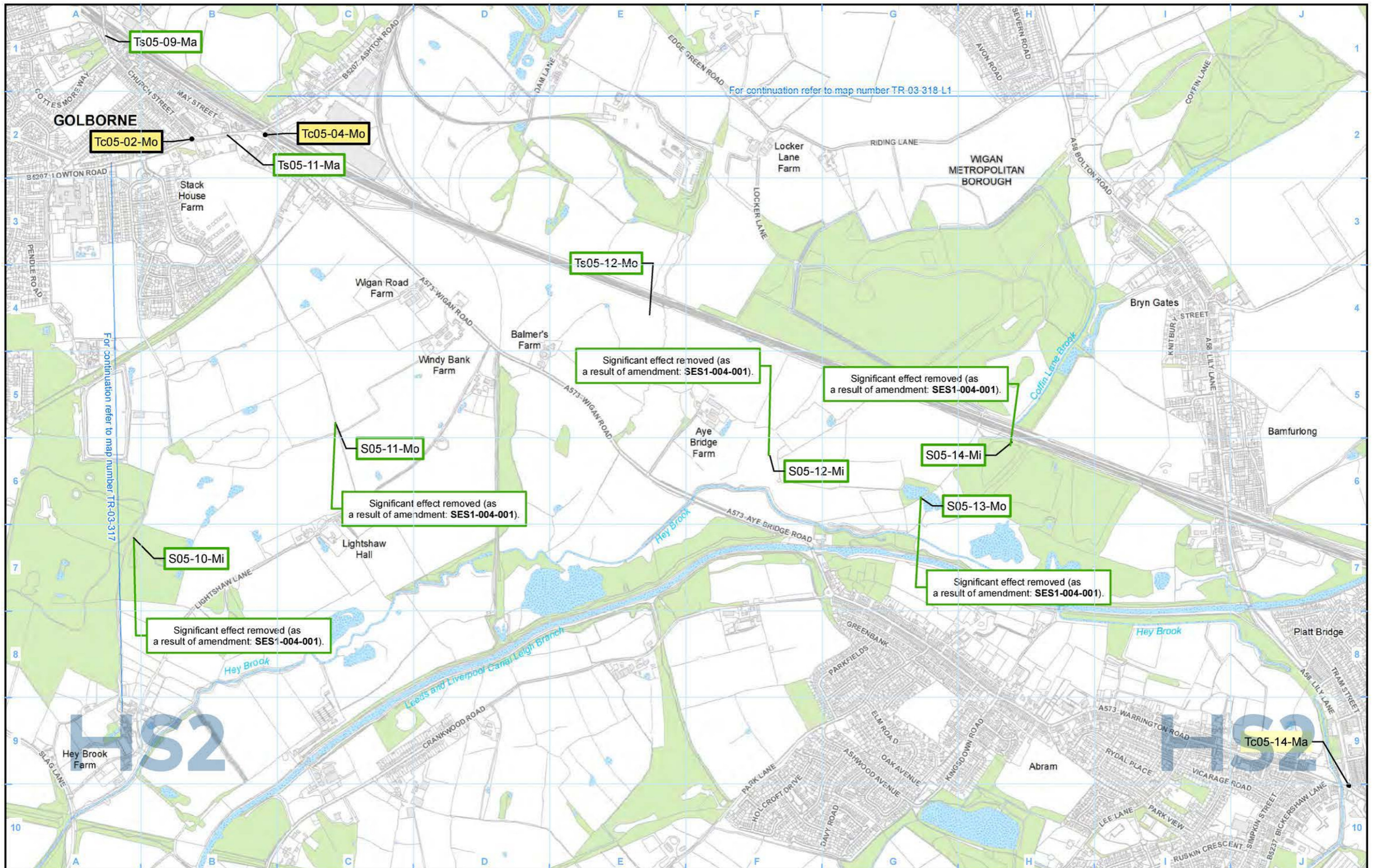
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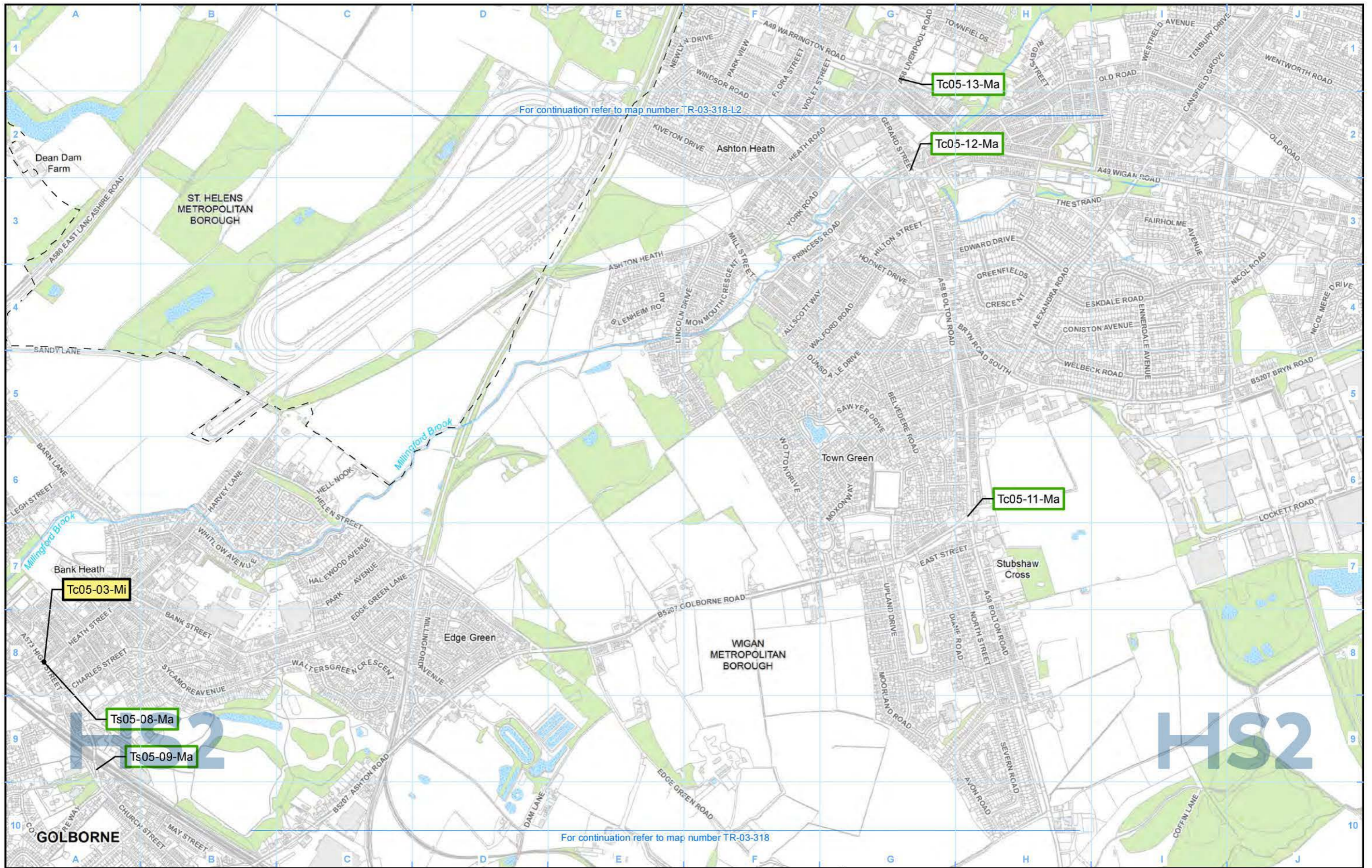
Date: 18/05/22



For continuation refer to map number TR-03-318-L1

For continuation refer to map number TR-03-317

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 County boundary District/Borough boundary Watercourse Water body Woodland Construction traffic routes 		Construction significant effects unchanged from the SES/AP: <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 		Construction significant effects arising from the SES/AP: <ul style="list-style-type: none"> Adverse, permanent Adverse, temporary Beneficial, temporary Beneficial, permanent 		For full legend please refer to TR-03 legend page.	
Map Number TR-03-318		Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES				Registered in England. Registration number 06791686. Registered office: Two Snowhill, Snow Hill Quaysway, Birmingham B4 6QA.	
Community Area MA05: Risley to Bamfurlong		Scale at A3: 1:10,000 		© Crown copyright and database rights 2021 OS 100049190		Doc Number: 2PT24-MWJ-EV-MAP-M000-002164-P01	
						Date: 18/05/22	



- 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
 - Construction traffic routes

- Construction significant effects unchanged from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:**
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-318-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA05: Risley to Bamfurlong

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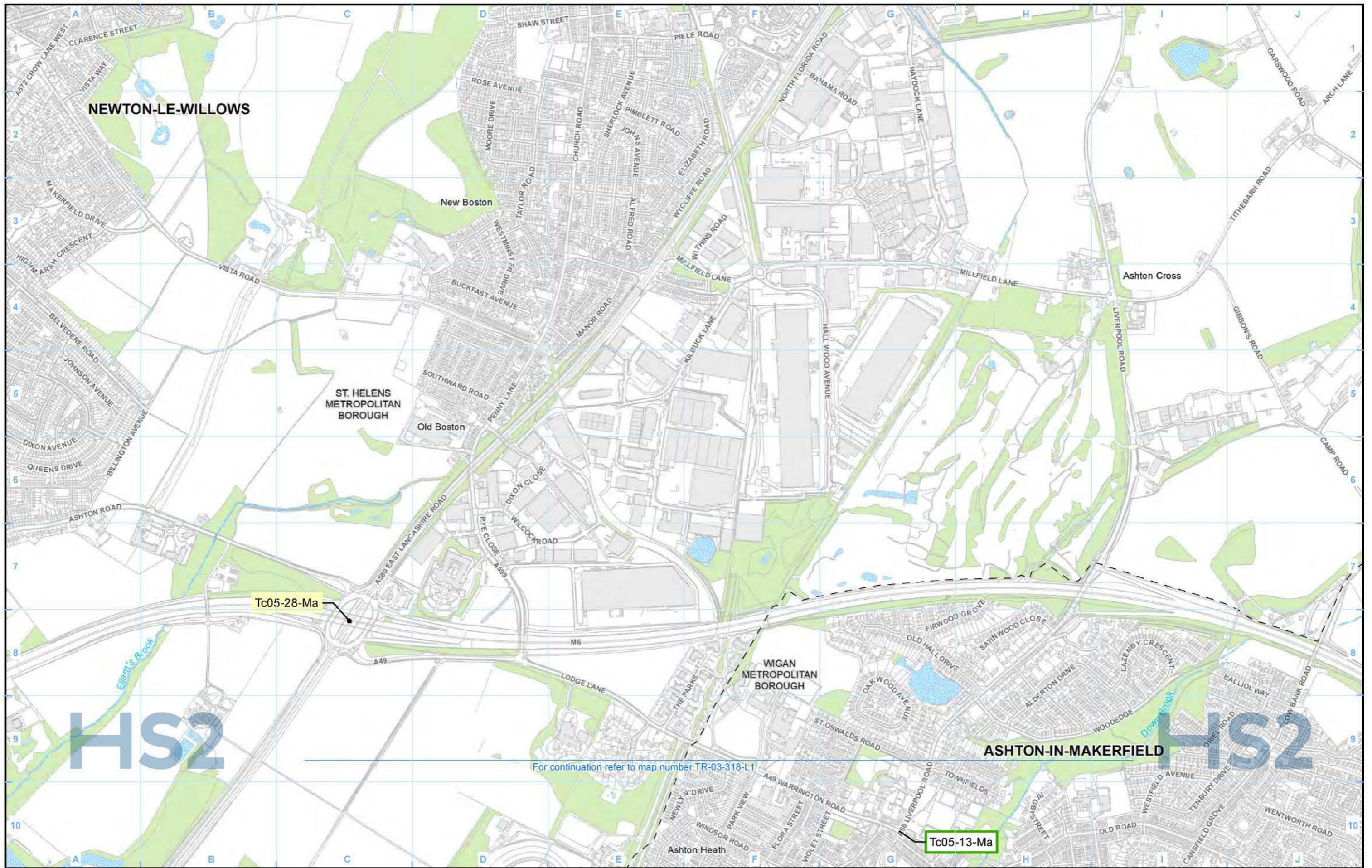
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Date: 18/05/22

Scale at A3: 1:10,000

Metres



- 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
- Construction traffic routes

- Construction significant effects unchanged from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent
- Construction significant effects arising from the SES/AP:
- Adverse, permanent
 - Adverse, temporary
 - Beneficial, temporary
 - Beneficial, permanent

For full legend please refer to TR-03 legend page.

Map Number: TR-03-318-L2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes SES1 and AP1 ES

Community Area MA05: Risley to Bamfurlong

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Tc05-28-Ma

Tc05-13-Ma

For continuation refer to map number TR-03-318-L1

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