

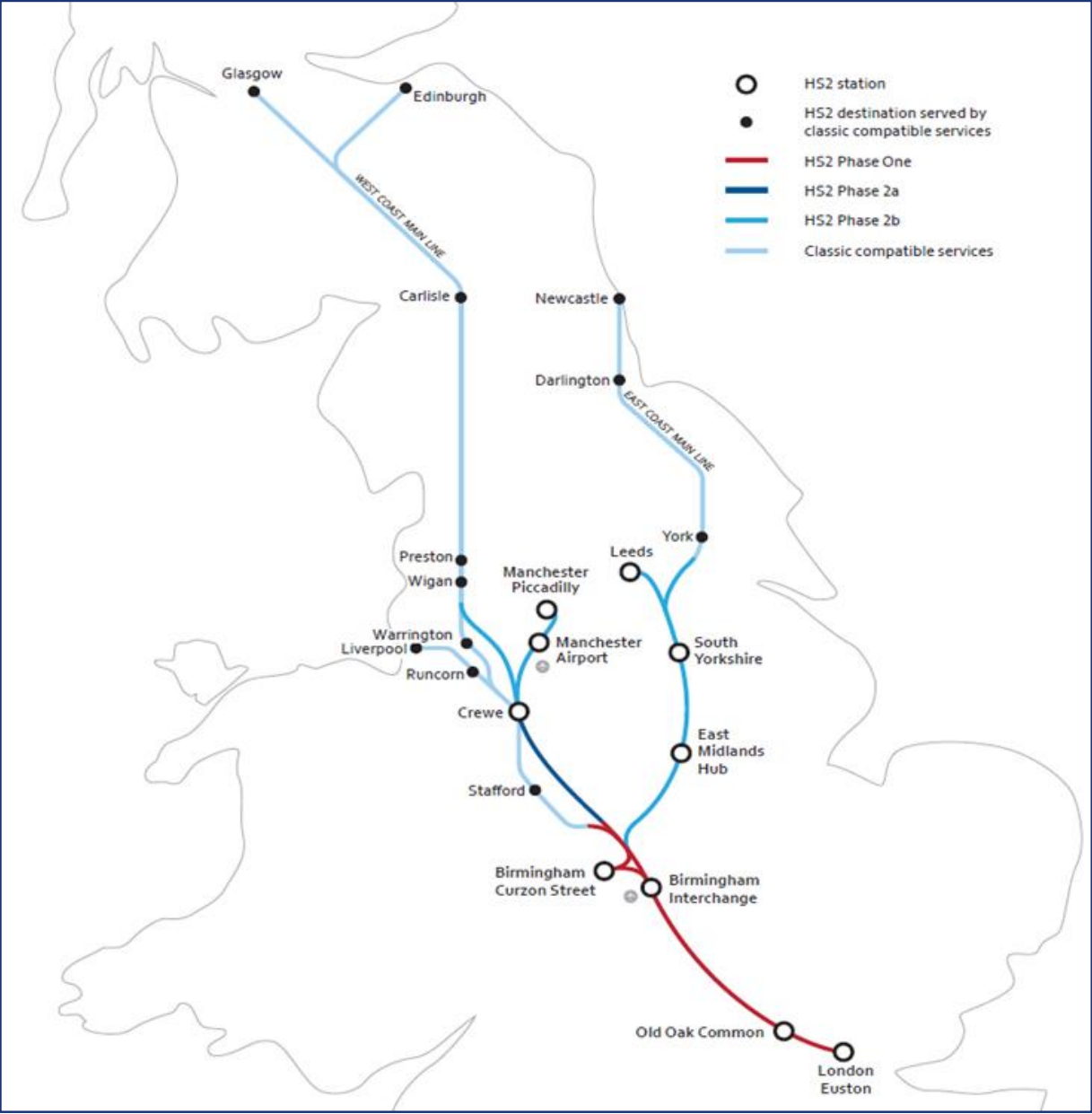
HS2

Phase 2a Route Overview for House of Commons Select Committee

Professor Andrew McNaughton

19 March 2018

High Speed Rail Network



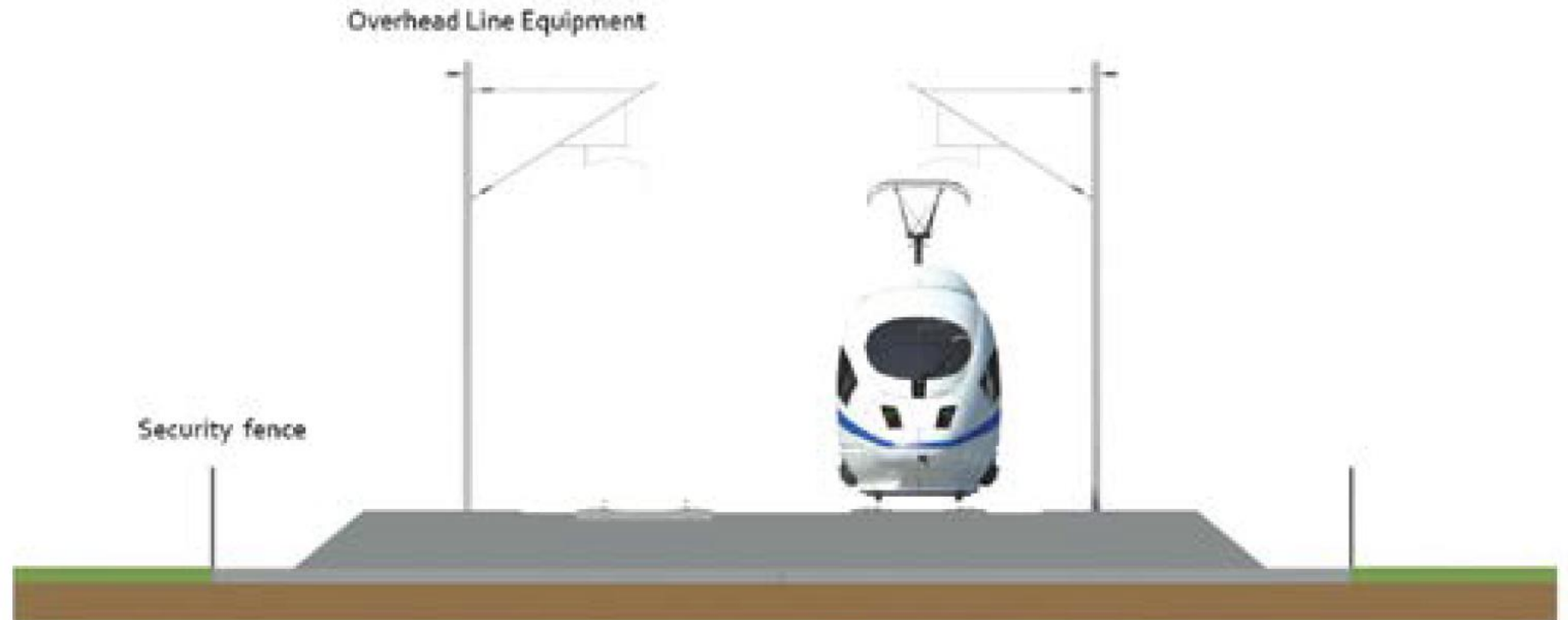
High Speed Rail is 53 Years Old



International Technical Standards



Indicative Rail Corridor



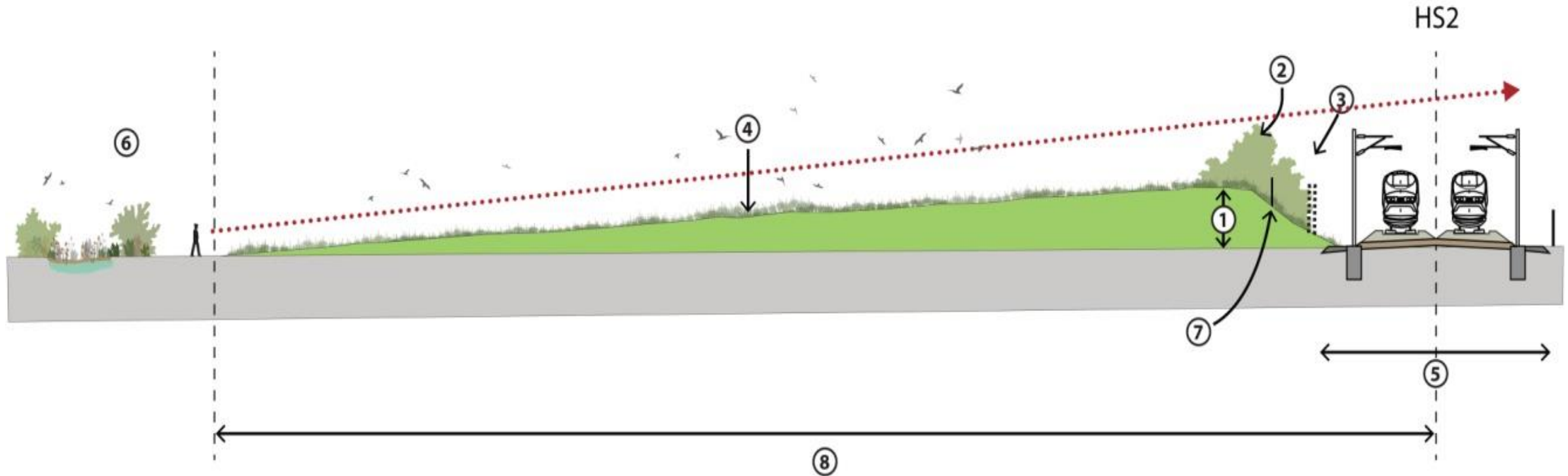
HS1 Two Track Railway



**200m long
trains which
can be
coupled to
run in pairs
400m long**

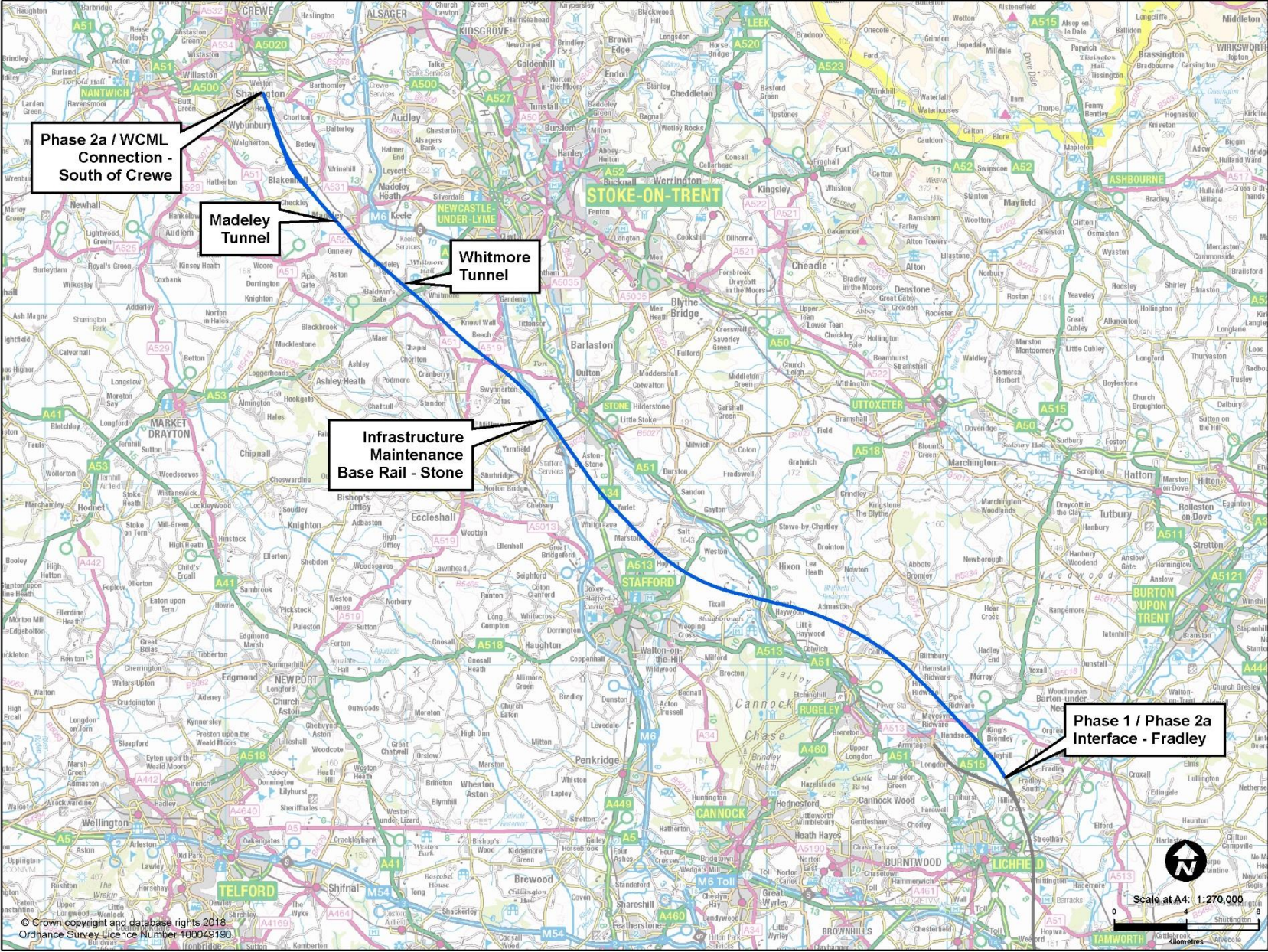


HS2 Design Principles

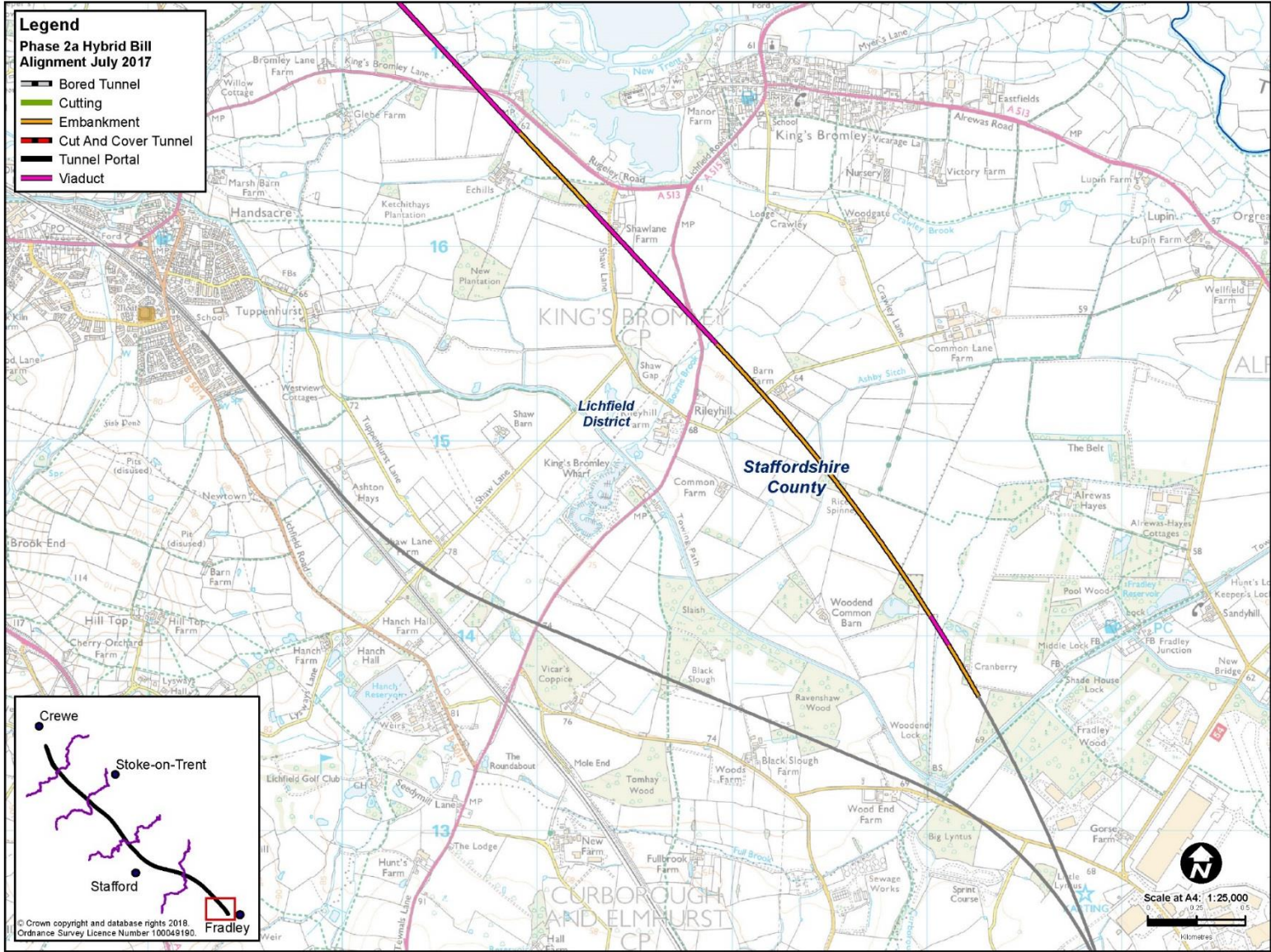


1. Integrated noise protection and visual screening
2. Further screen planting to supplement earthworks and fit with local landscape
3. An earthworks solution removes the need for a fence type noise barrier (*cutting costs + maintenance burden*)
4. Land returned to agriculture up to the railway (*opportunity to improve agricultural land*)
5. This earthworks solution minimises the width of the rail corridor
6. Protection of environmental features (*e.g. ecology, heritage, landscape*)
7. Boundary fence visually concealed behind the earthworks
8. The majority of the original land take is handed back for productive use

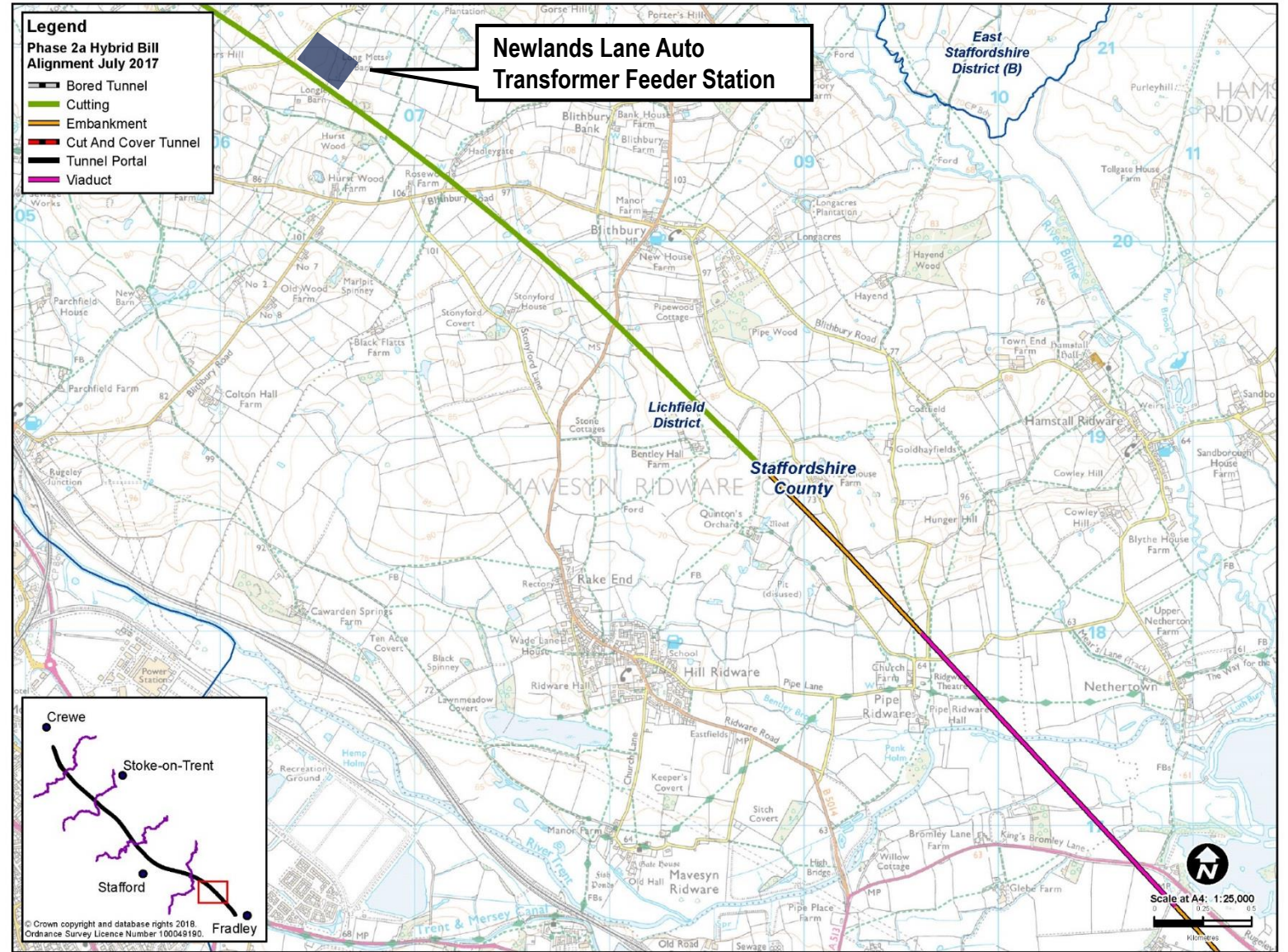
Phase 2a Route Overview



1. Fradley to Kings Bromley



2. Kings Bromley to Blithbury

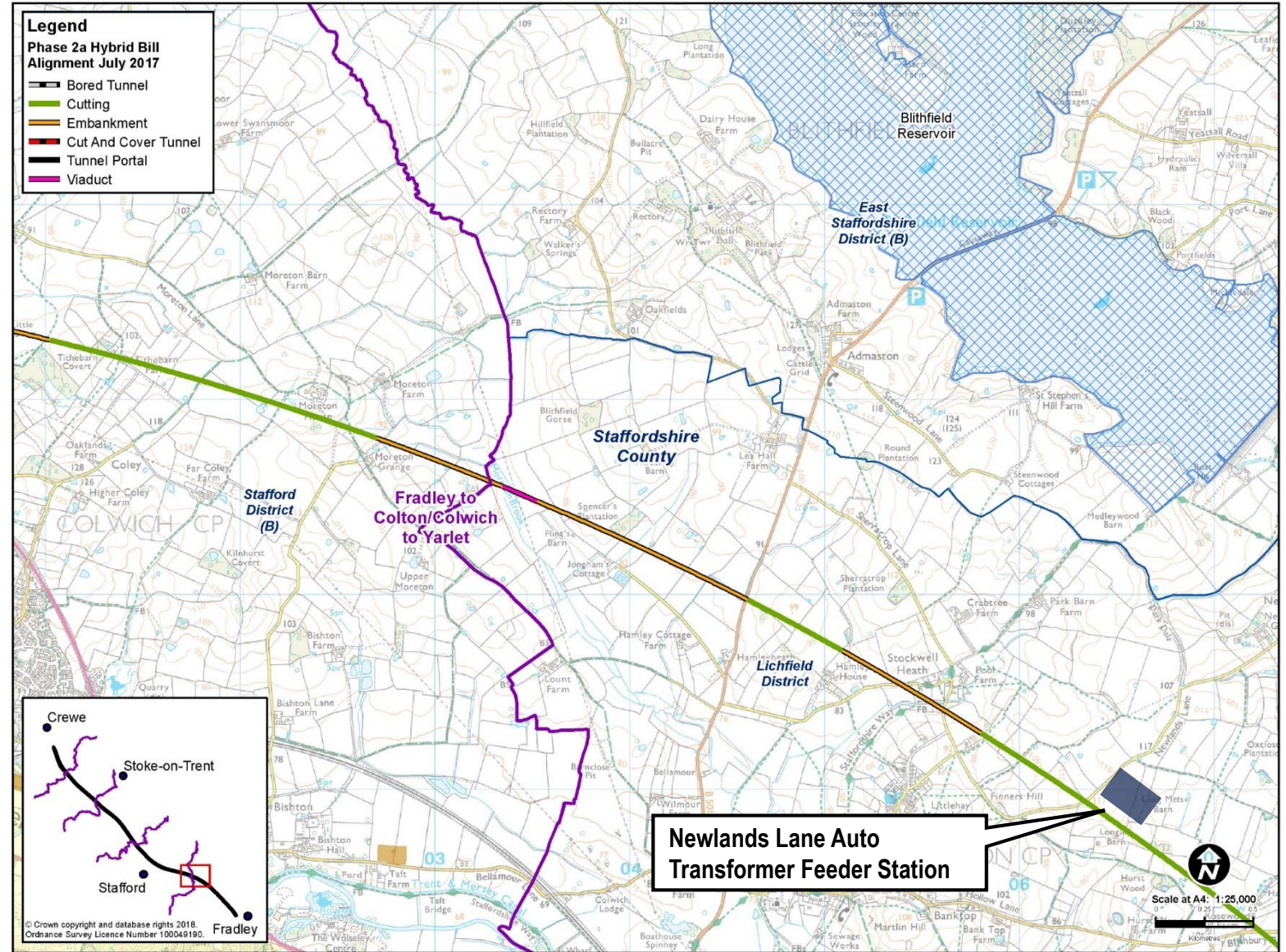


Newlands Lane Auto Transformer Feeder Station

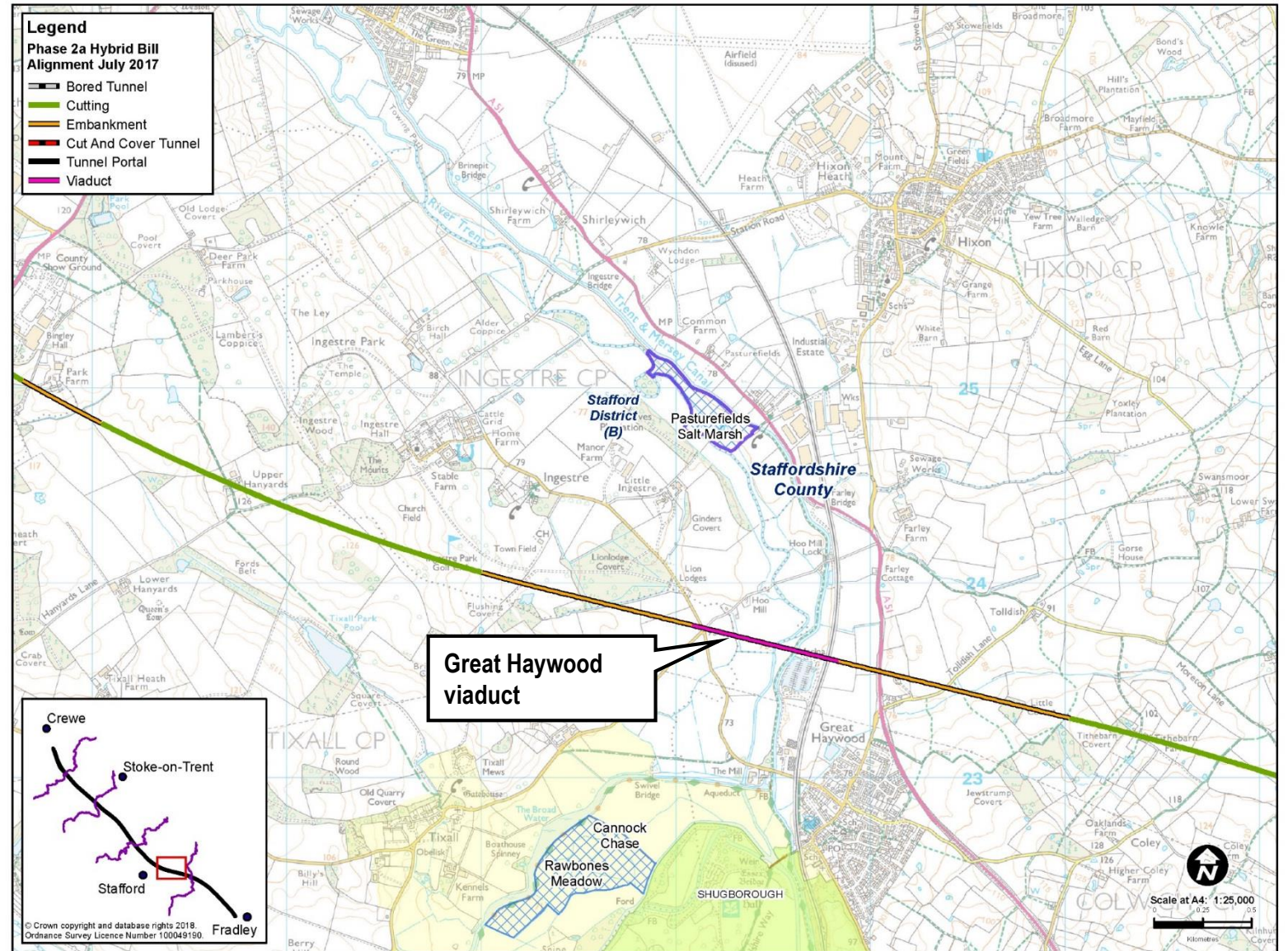
View from North looking South



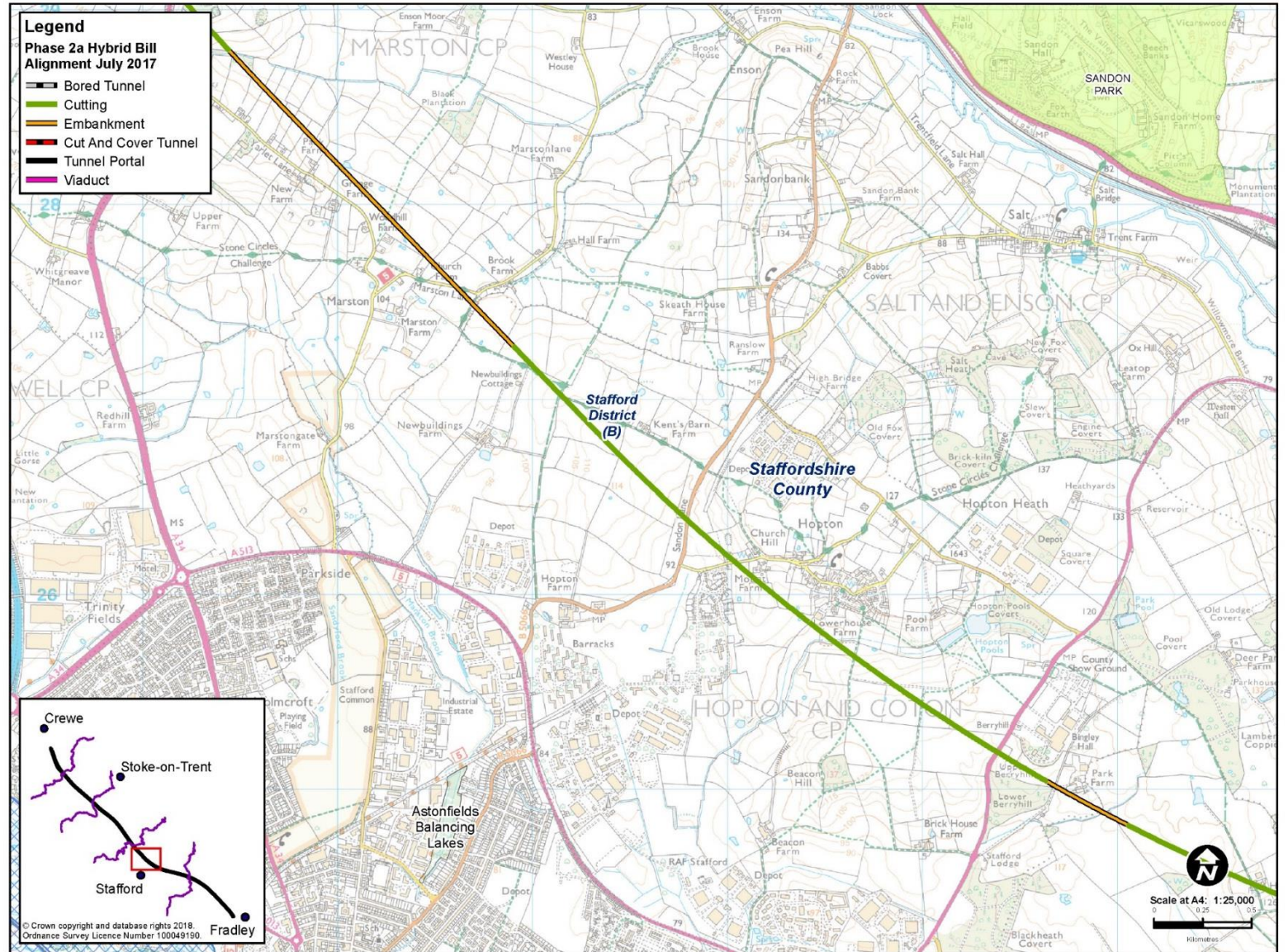
3. Colton to Colwich



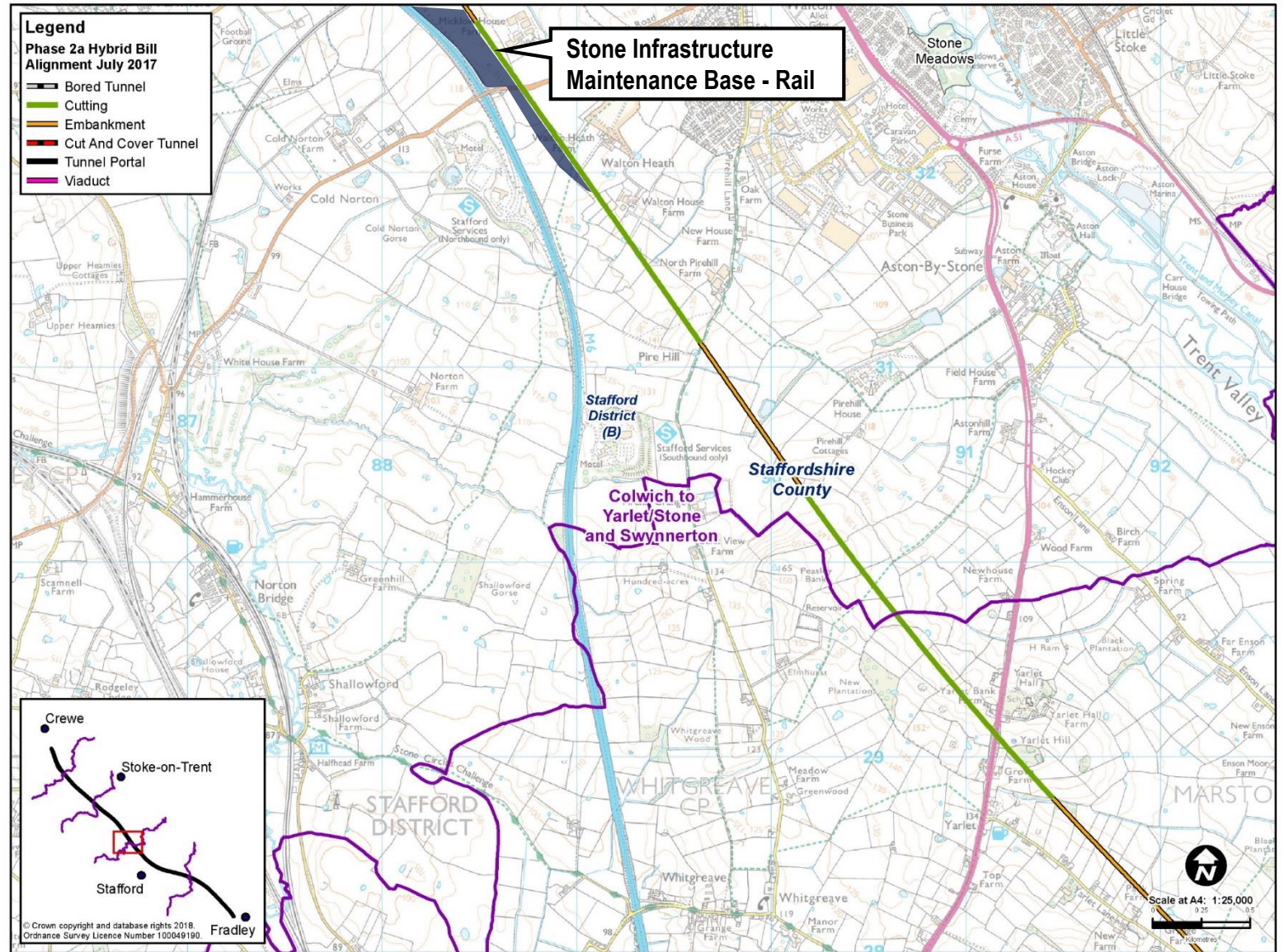
4. Moreton to Ingestre



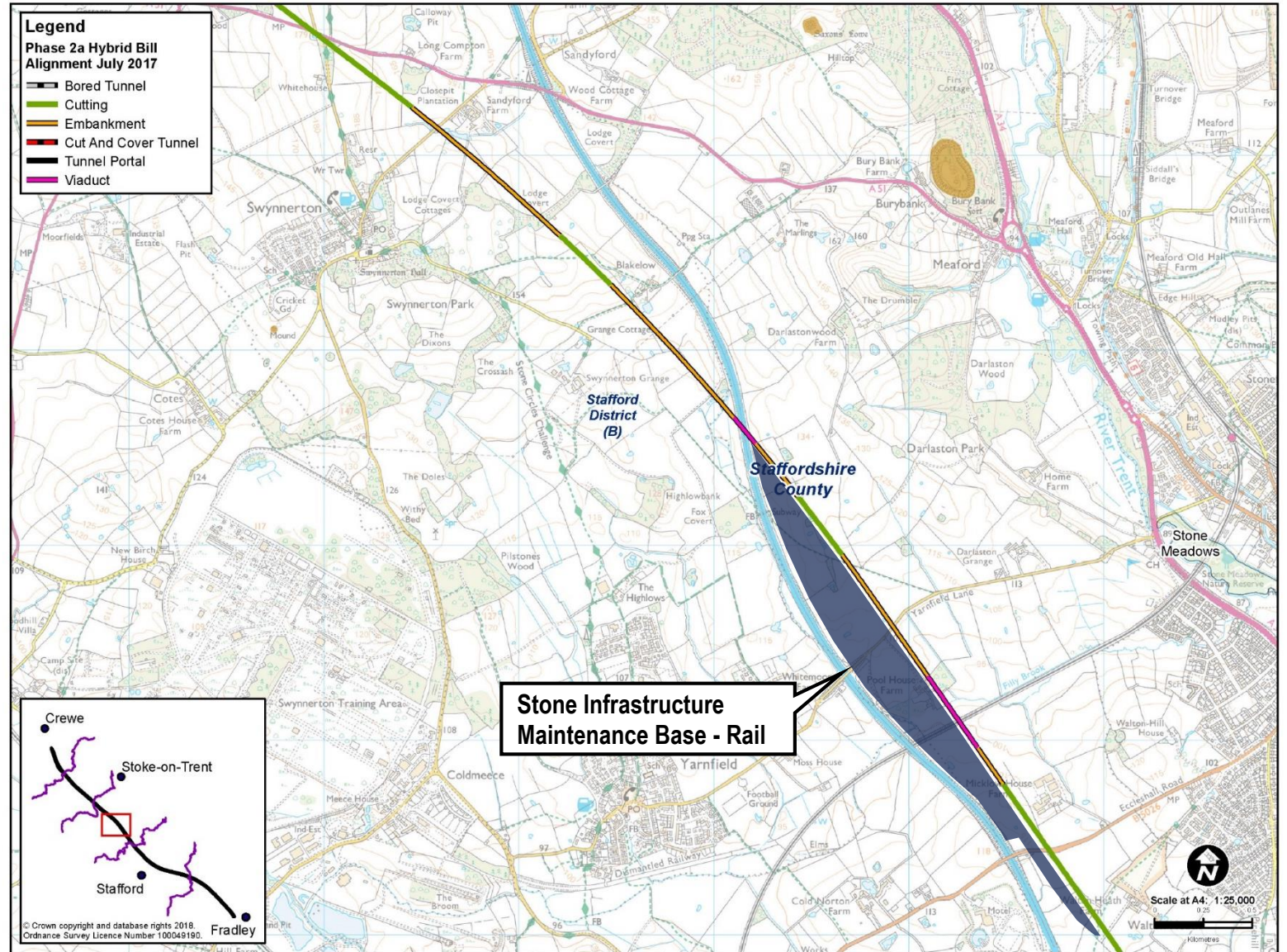
5. Staffordshire Show Ground to Marston



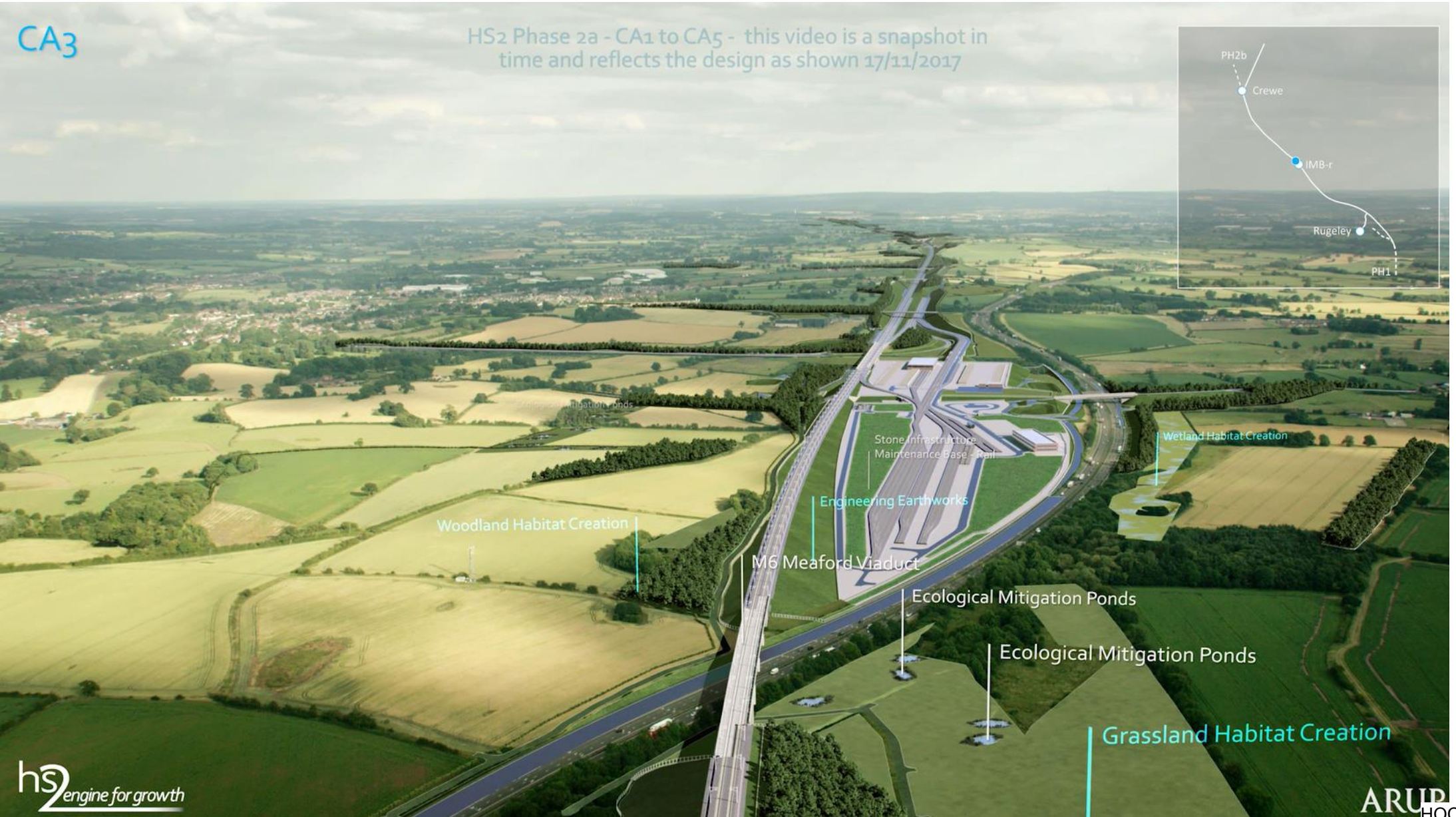
6. Marston to Stone



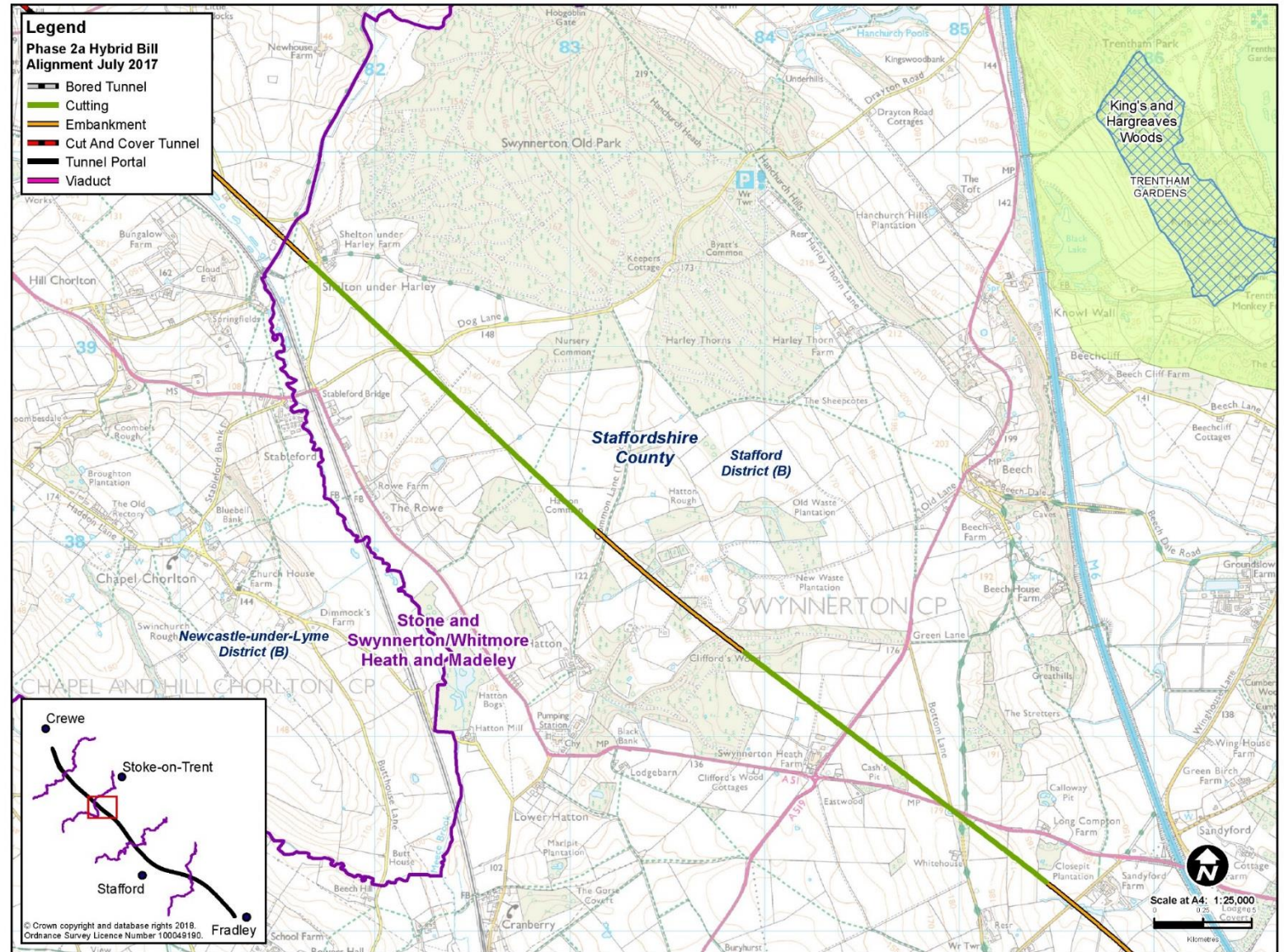
7. Stone Infrastructure Maintenance Base to Swynnerton



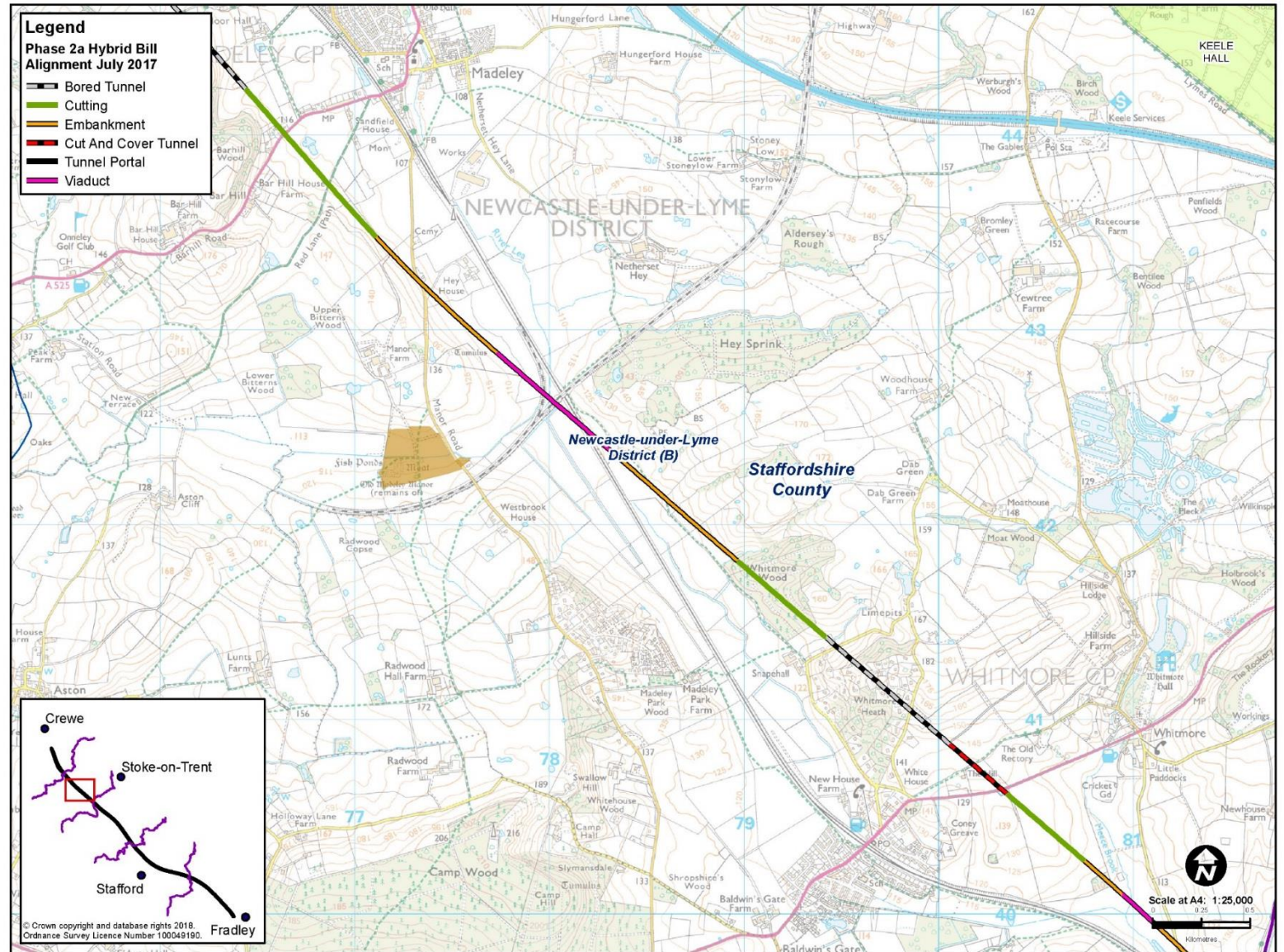
Stone Infrastructure Maintenance Base - Rail



8. Swynnerton to Stableford



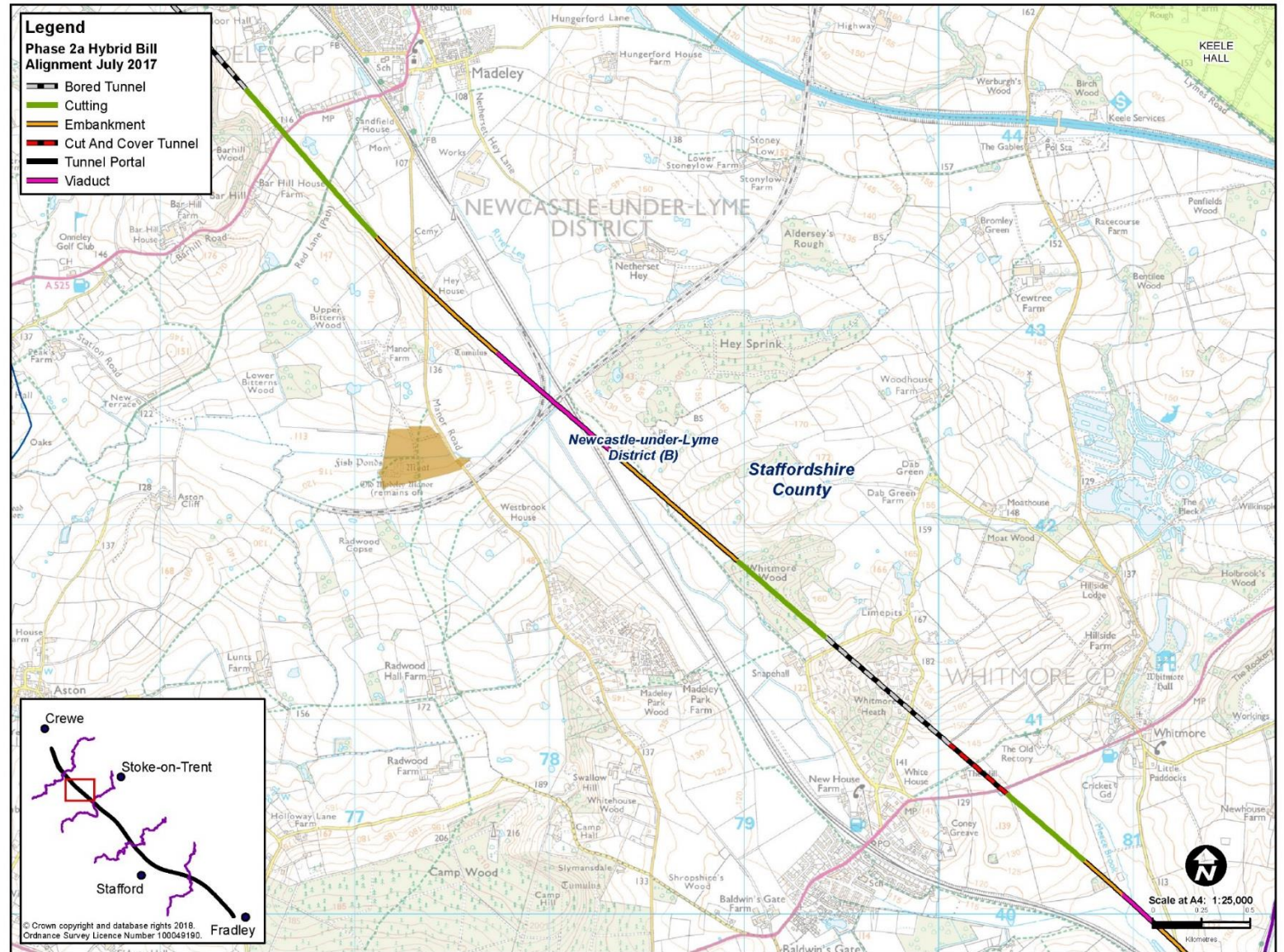
9. Whitmore Heath Tunnel to Madeley Tunnel



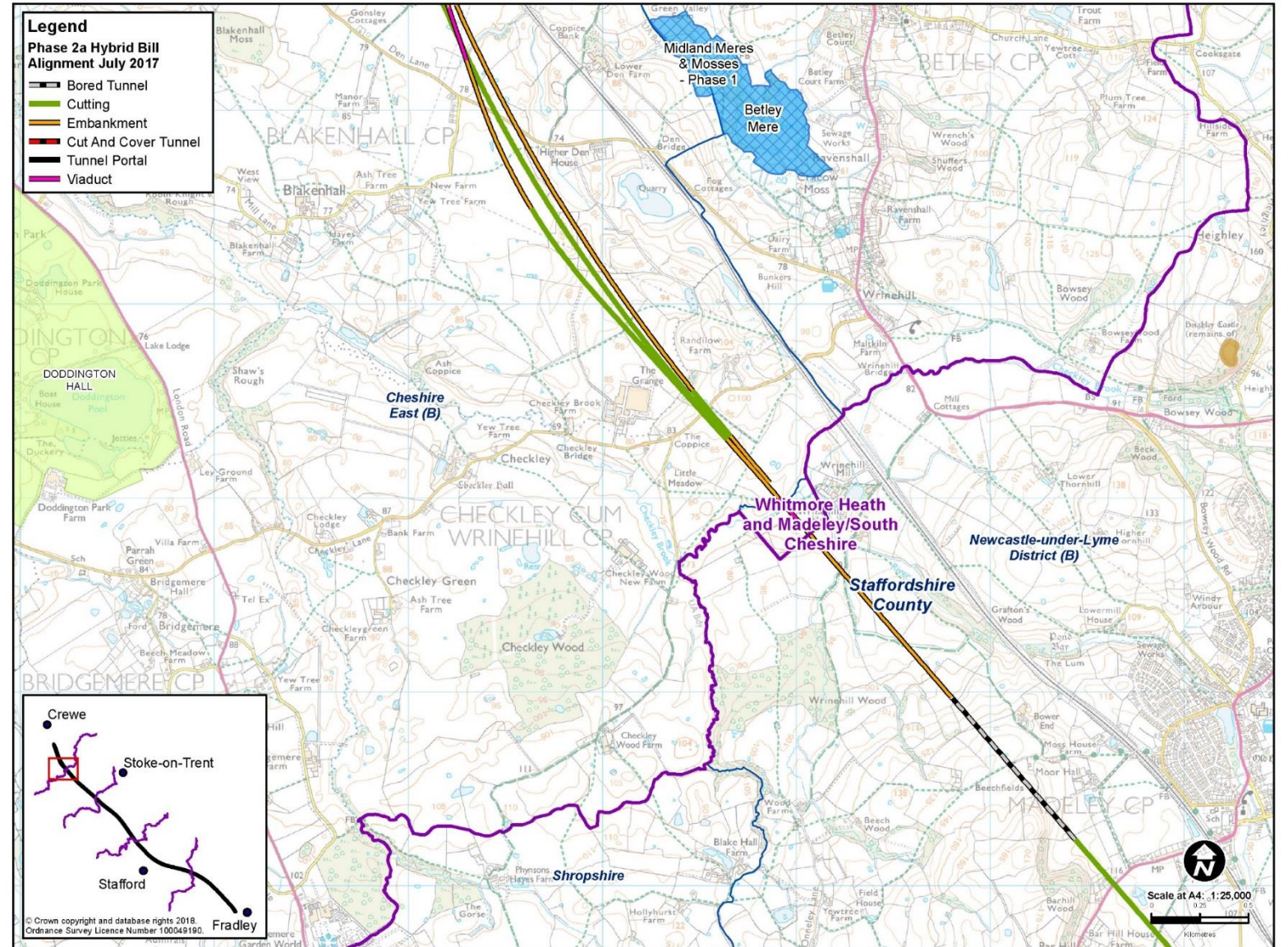
High Speed Porous Tunnel Portal



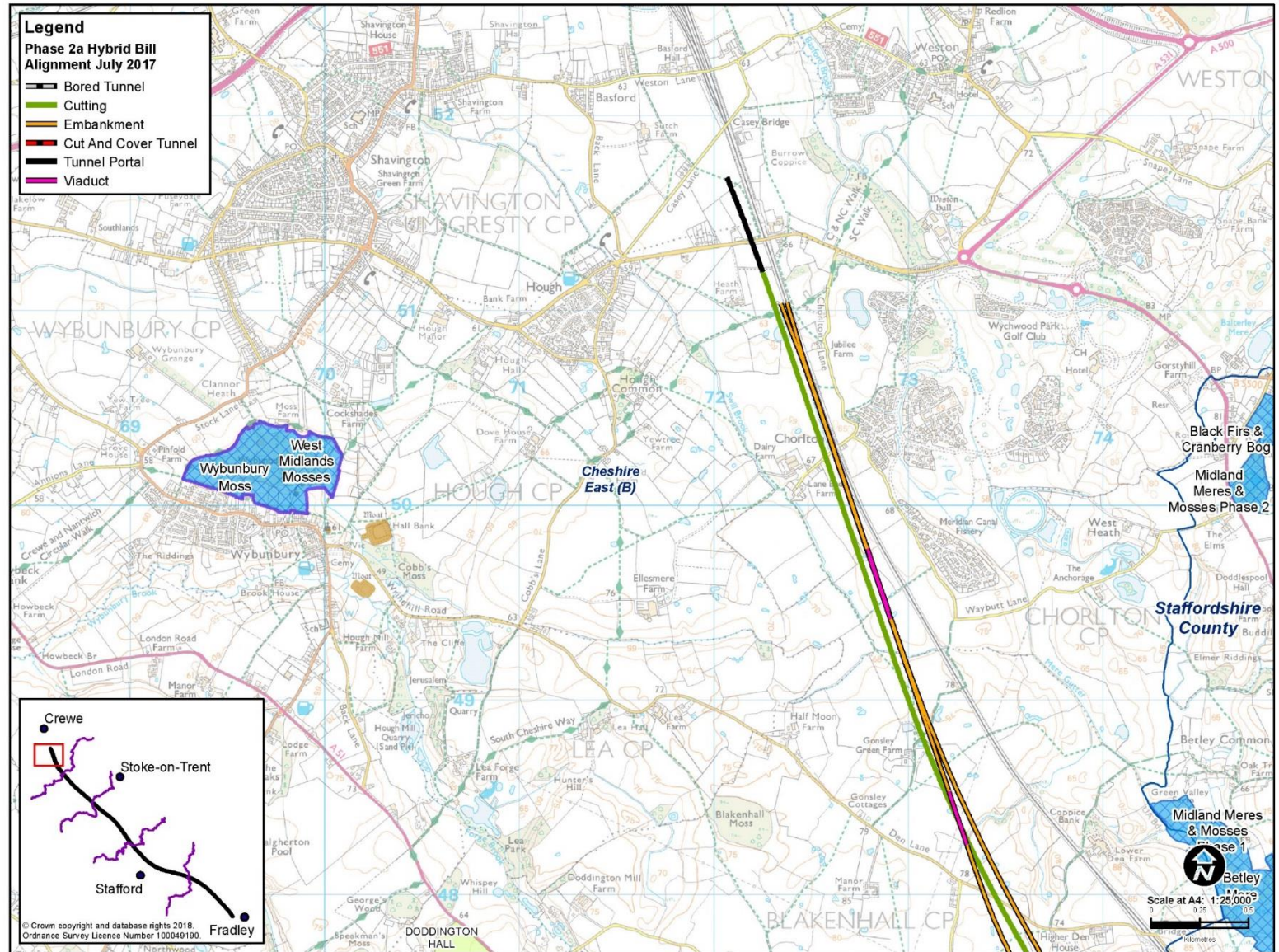
9. Whitmore Heath Tunnel to Madeley Tunnel



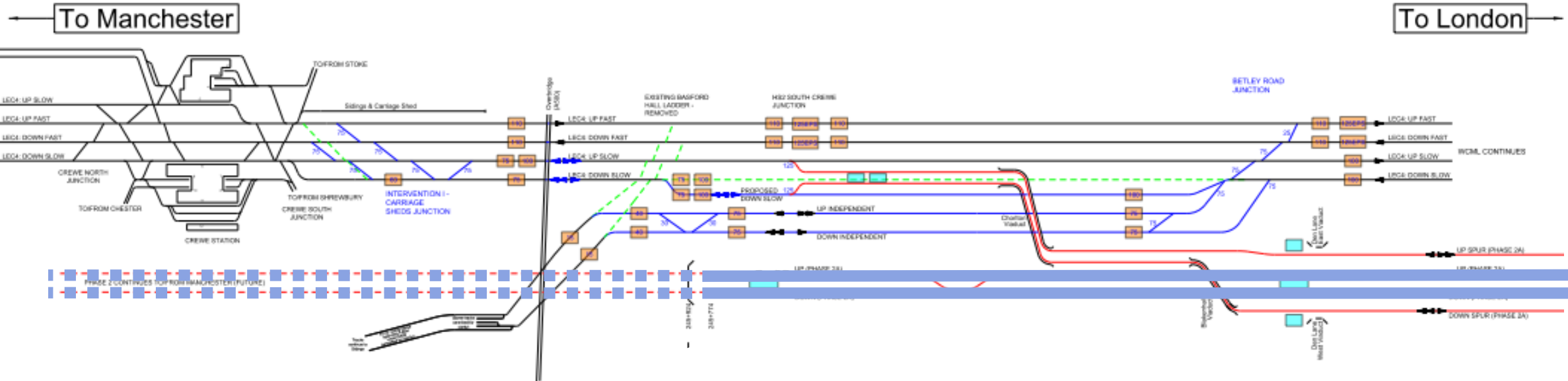
10. Madeley Tunnel to Blakenhall



11. Crewe Approaches

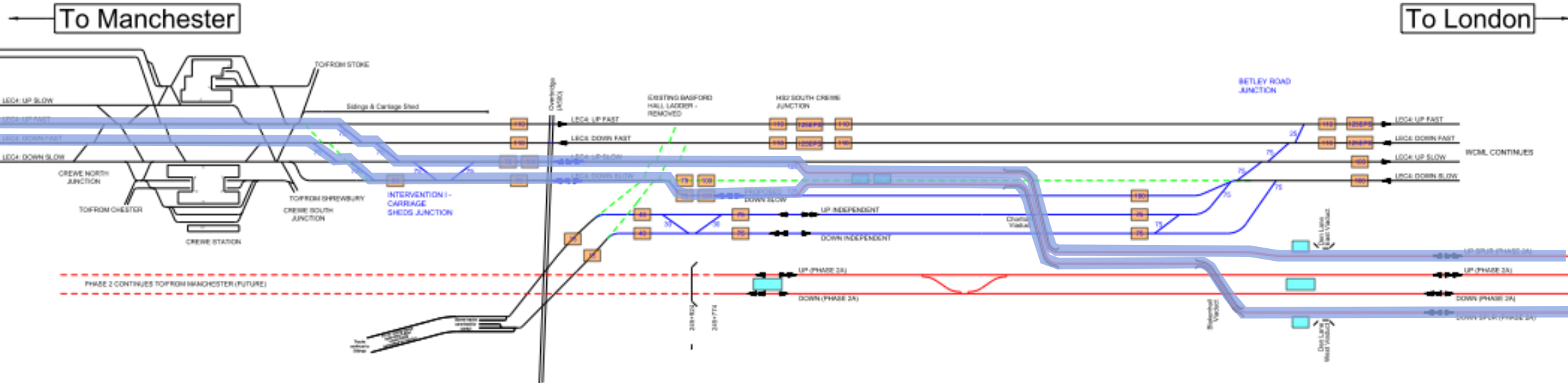


Crewe Proposed Layout HS2 Trains Passing Crewe Highlighted



LEGEND
 — EXISTING NETWORK RAIL
 — PROPOSED NETWORK RAIL
 - - - REMOVED NETWORK RAIL
 — HS2 WORKS

Crewe Proposed Layout HS2 to WCML Highlighted



HS2 Phase 2a - Crewe - this video is a snapshot in time and reflects the land take as shown 19/04/2017



High Speed Rail Network

