**EXHIBIT LIST**

Reference No: HOC/10001  
Petitioner: Route Presentation  
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<table>
<thead>
<tr>
<th>No</th>
<th>Exhibit Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Route Overview (P1)</td>
<td>2 - 30</td>
</tr>
</tbody>
</table>
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

- Phase 2a / WCML Connection - South of Crewe
- Madeley Tunnel
- Whitmore Tunnel
- Infrastructure Maintenance Base Rail - Stone
- Phase 1 / Phase 2a Interface - Fradley
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

Legend
Phase 2a Hybrid Bill
Alignment July 2017
- Road Tunnel
- Cutting
- Embankment
- Cut And Cover Tunnel
- Tunnel Portal
- Viaduct

Newlands Lane Auto Transformer Feeder Station

P1 (13)
4. Moreton to Ingestre

Great Haywood viaduct
5. Staffordshire Show Ground to Marston
6. Marston to Stone
7. Stone Infrastructure Maintenance Base to Swynnerton
Stone Infrastructure Maintenance Base - Rail

HS2 Phase 2a - CA1 to CA5 - this video is a snapshot in time and reflects the design as shown 17/11/2017.

CA3

Woodland Habitat Creation

Engineering Earthworks

MS Meaford Viaduct

Ecological Mitigation Ponds

Ecological Mitigation Ponds

Grassland Habitat Creation

Watercourse Adj. Creation

Stone Infrastructure Maintenance Base

Maintenance Base Creation

H5b Crew

MS-r Muggles

H5a
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 Existing Layout
Crewe Proposed Layout HS2 Trains Passing
Crewe Highlighted
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