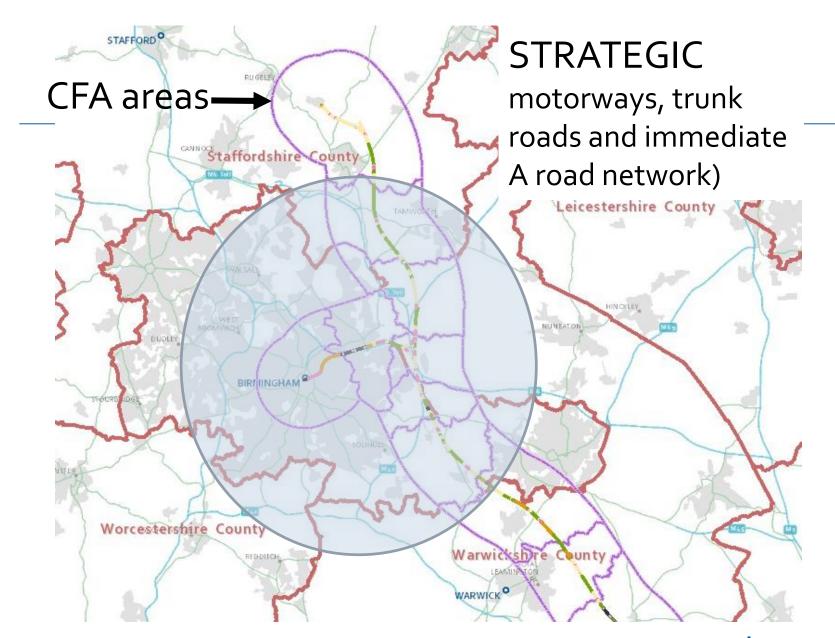
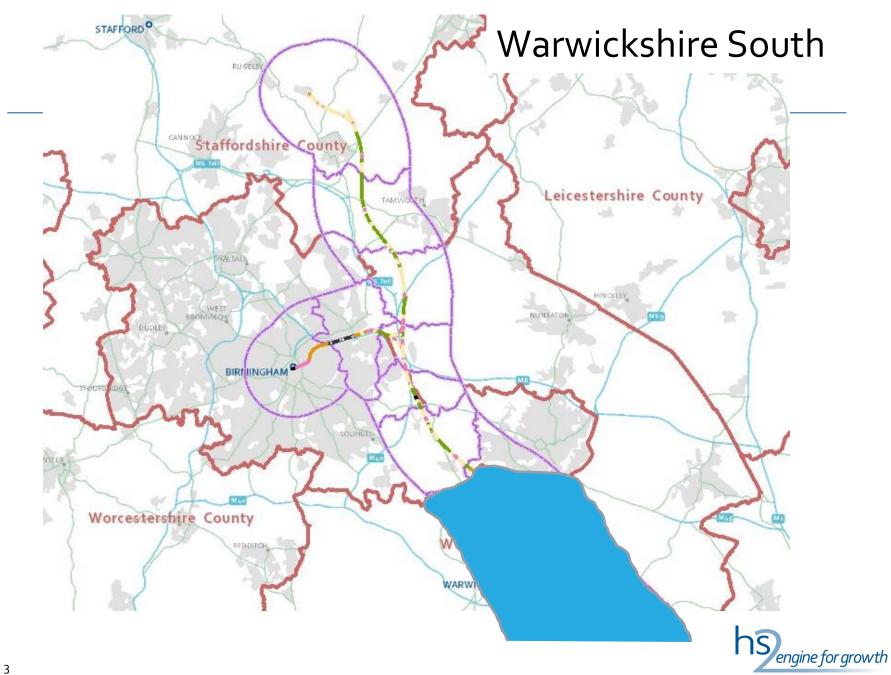


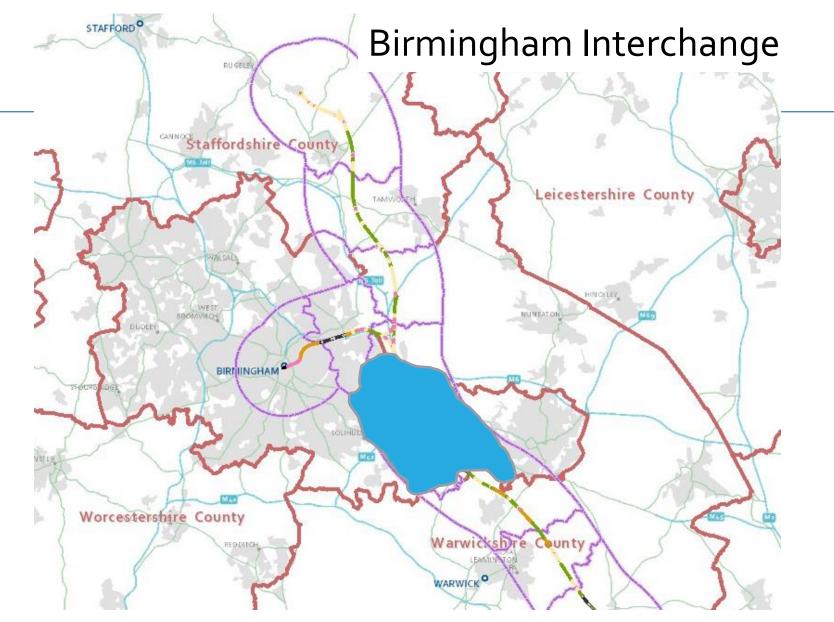
HS2 Phase One Planning Forum – Highways Subgroup

Meeting #12 16 December 2015

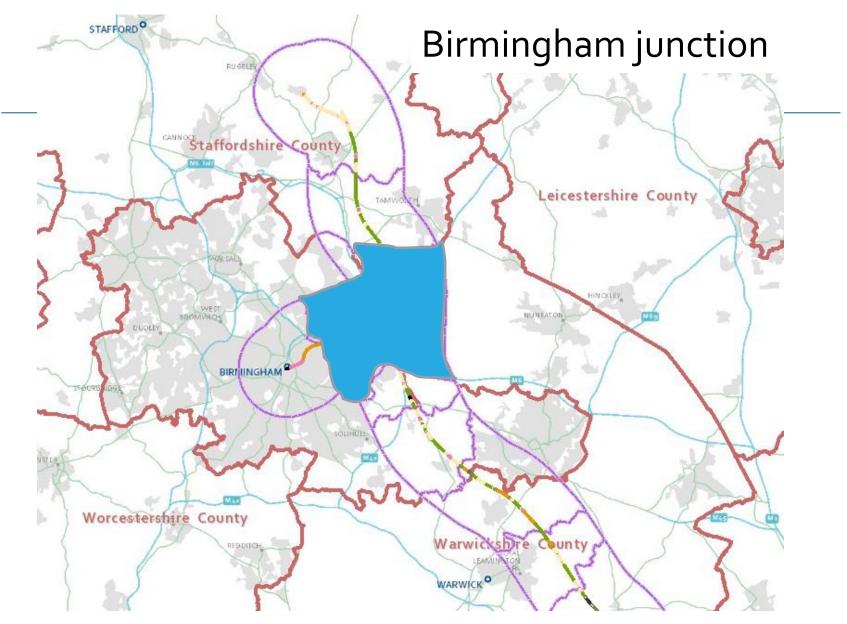




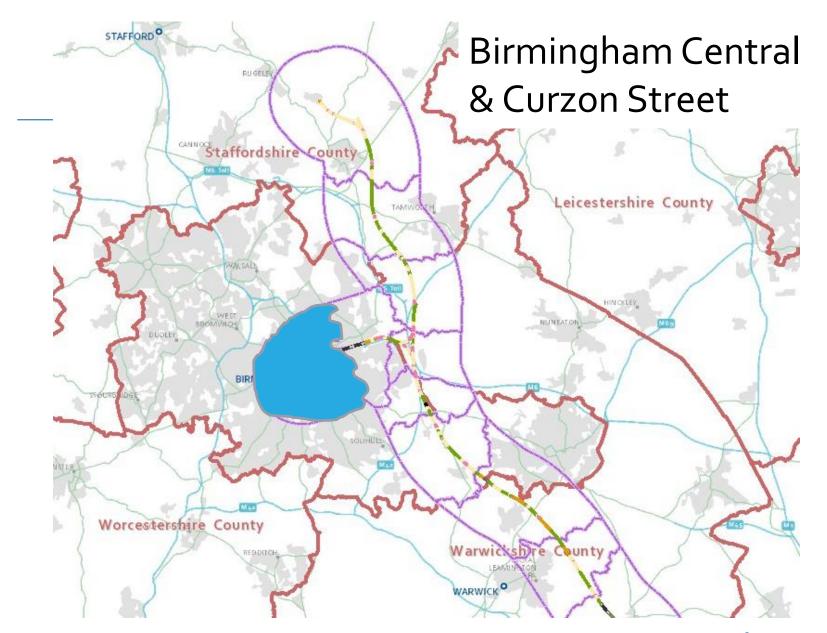




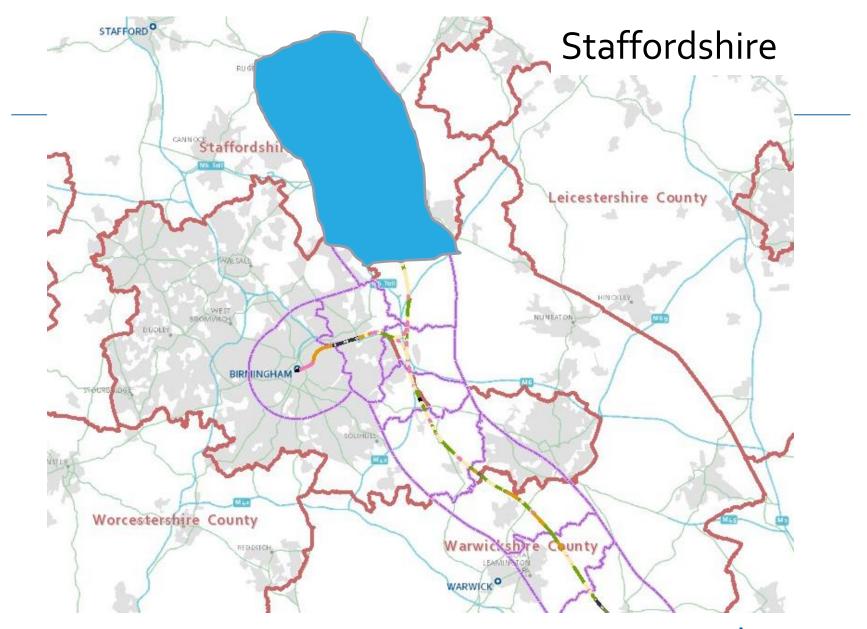
















- Enabling works framework TMP pre Royal Assent
 - Comments received and incorporated.
 - Final version circulated for internal review.
 - Next step circulate final version



- Highway works scope pre-Royal Assent
 - No assumed highway works to be undertaken prior to Royal Assent by enabling works contractors
 - Next step continue to monitor the requirements of the area teams



- 3. Route-wide Traffic Management Plan
 - Version 1 issued
 - Used to prepare MWCC employers requirements
 - Referenced in Select Committee
 - Next step update as necessary



- 4. Local Traffic Management Plan areas
 - Proposed revised areas south of Birmingham
 - Use CFA areas around Birmingham
 - Next step commence Enabling Works Local TMPs for post-Royal Assent



- 5. Bridge structure/route reviews
 - First round of data gathering complete

 Next step – review data, gaps and develop next stage of work early 2016



- 6. Highway Condition Surveys
 - Further discussions on developing monitoring methodology with TRL
 - Next step seek appointment of specialist to write the scope for tendering for independent assessor



- 5. Traffic Signals agreements
 - Continued meetings with local highway authorities (except London)
 - Next step review information and the extent that there can be model agreements



- 6. Direction Signing to Worksites
 - Internal governance to appoint routewide contractor
 - Next step tendering



- 7. Vehicle Booking System
 - Internal governance to appoint routewide contractor
 - Next step tendering



- 8. Driver and Vehicle Safety
 - Motorcycle safety evaluation
 - Training modules
 - Meetings with stakeholders
 - Review of technology
 - Next step continued development



- 9. Transport Management Team
 - Recruitment completed:

Head of Transport Management: Peter Tomlin 1/3/16

Traffic Manager – North: Gary Moreia 29/2/16

Traffic Manager – Central: Chris Casey

Traffic Manager – South: Chris Boylan

Transport Manager – C&E: Neil Cox

Transport Manager – FC: John Pinnock

Transport Strategy Manager: Marny Moruzzi



Technical Standard – Roads Response to comments

James Fearnley



Of the 62 comments received:

31 – no action / suggestion not incorporated 23 – propose to update 'Technical Standard – Roads'

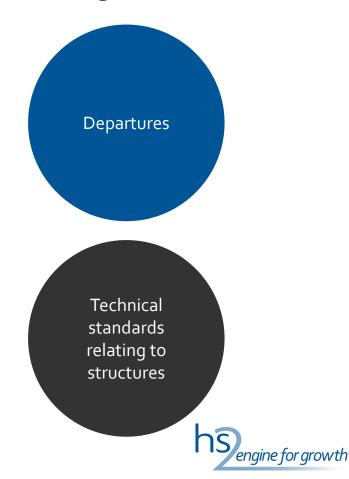
6 – comments answered in other documents 2 – proposed to be covered in future agenda item



Answered in other docs

Consents and Information Paper E14 Permanent **Technical** Standard – Errant vehicle protection

Future agenda items



- 2.7.6 Statutory undertakers
 - "Where new or diverted roads are to be provided utilities are to be installed within purpose-built utility tunnels." (L.B. Camden)
- HS2 response: Following note is proposed

NOTE – Combined utility conduits for new, realigned or diverted utilities should be considered where appropriate.



- 4.2.5 Potential treatment options
 - "Add potential disadvantages of traffic light pollution. Increase in traffic noise (need to consider quite road surfacing at certain locations)" (Warwickshire)

Table 2: On-line overbridge or underbridge – HS2 close to existing ground level

- 4.2, 4.3 Potential treatment options
 - "The minimum of severance must be ensured during the design of replacement routes keeping replacement routes as close to the existing during construction and back at the original route once construction is complete. Where a replacement route is not on the original alignment evidence must be shown to the highway authority that the new route is SHORTER than the original." (L.B. Camden)
- HS2 response: Section 4 contains guidance on potential advantages and disadvantages of
 - on-line and off-line crossings
 - overbridges and underbridges
 - individual crossings and combined crossings



4.7 Permanent stopping-up

"Where a permanent closure or diversion is required the London Borough of Camden will expect that it will be served with a made special order (HS2 Railway Act) or application and fee for an order under S247 of the Town & Country Planning Act or S113 of the Highways Act. Only once the order is made will the Highway Authority permit works on the associated site to be undertaken." (L.B. Camden)

HS2 response:

 Schedule 4, Part 2 of the hybrid Bill allows the Nominated Undertaker to permanently stop up those highways in Tables 1 and 2.



- 5.1.4 Cyclists
 - "All routes should provide appropriate dedicated provision for cyclists to be approved by the Highway Authority." (L.B. Camden)
- HS2 response:
 - Dedicated provision' may not be appropriate for some types of roads.
- 5.1.4 Issues to consider for cyclists include:
 - Will there be dedicated provision for cyclists (e.g. cycle lanes, combined footway/cycleways or other off-carriageway cycle routes)?
 - If not, will it be safe for cyclists to use the carriageway (taking account of factors such as carriageway width, traffic levels and speed, visibility around bends, etc.)?
 - Will the gradient of the route be suitable for cyclists?



- Specific comments received:
 - Footway materials and layer depths. E.g. Base: 150mm ST1 concrete, etc. (L.B. Camden)
 - Specific signage (L.B. Camden)
 - Local design guidance and standards (L.B. Camden)
 - Only buff and red tactile paving should be used (L.B. Camden)
 - Minimum K-values (Herts)
- HS2's response:
 - Technical Standards are routewide not particular to one highway authority
 - Where agreed, local highway authority standard or guidance can be incorporated under **Section 7** of the Technical Standard.



- Urban and rural road design criteria
 - 6okph alignment should be as per DMRB not MfS2 (Warwickshire)
- HS2 response:
 - MfS2 was prepared using a cross-industry steering group. Given the broad cross-section of industry, research institutions and government bodies that have contributed to creating these documents, it follows that the values contained within the documents can be used with confidence.
 - DMRB TD 9 is appropriate for trunk roads and motorways.
 - Urban streets: Given the urban nature, the criteria contained in MfS2 is considered more appropriate than DMRB.
 - Rural roads: Adoption of the horizontal radii given in MfS2 for 6okph rural roads will assist in achieving the Guiding Principles contained in Section C.2.



Rural roads, and in particular low-speed rural roads, are often highly valued by local communities. Many rural roads have evolved over several hundreds of years and its design and visual characteristics (such as alignment, crosssection and visibility) reflect a time before the modern use of the motor vehicle. Terms such as 'quaint', 'scenic', 'enclosed', 'charming' and 'inviting' are often used to describe them, which differs from the 'traditional' highway engineering focus of capacity and engineering standards.



- C.6.20 Width of unbound paths
 - "1.3m is considered too narrow" (Warwickshire)
- HS2 response:
 - See existing text (below)
- 4 C.6.18 Where provided, separate paths for non-motorised users should have a desirable minimum width of 2.0 metres if intended for pedestrians only or 3.0 metres when shared with cyclists and/or equestrians.
 - C.6.19 The absolute minimum width for paths shall be 1.3m for pedestrians only, or 2.0 metres where shared with cyclists and/or equestrians.
 - Bridge verge widths should be 3m where there is equestrian use to avoid he risk of 'horse flight'" (Warwickshire)

- C.8.3 Lighting
 - "... required to be lit in accordance with BS5489
 LED Lamp source fully Telensa enabled manufactured by Philips" (L.B. Camden)
- HS2 response:
 - HS2, like all public sector projects, has to comply with European procurement rules and therefore cannot specify individual products



Technical Standard – Public rights of way Response to comments

James Fearnley



Technical Standard - Public Rights of Way

Of the 41 comments received:

22 – no action / suggestion not incorporated 15 - propose to
update 'Technical
Standard - Public
rights of way'

3 – comments answered in other documents 1 – proposed to be covered in future agenda item

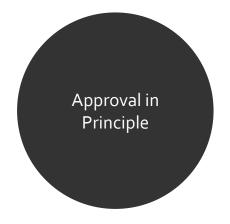


Technical Standard - Public Rights of Way

Answered in other docs

Information Paper E29 Series 300 of Specification for Highway Works

Future agenda items





Technical Standard – Public Rights of Way

- 2.5.10 'Dead end' public rights of way
 - "As well as routes appearing to be dead ends, there are also instances of routes changing status along its entire length - the status needs to be clarified with the Local Authority." (Warwickshire)
- HS2 response: The following requirement is proposed

Public right of way whose status changes along the route

2.5.11	There may be instances where the status of a public right of way changes along the length of
	the route without apparent reason. Where encountered, clarification shall be sought from the
	surveying authority.



4.7 Provision for future development

- "...betterment as opposed to simple mitigation, can be secured, such as new bridleways and footpaths to create circular walks or routes to work, school, shops, etc..." (general comment, Bucks)
- "Local Authorities will look for opportunity to 'finish off' route by connecting to the nearest highway... to eliminate the dead end". (2.5.8, Herts)

HS2 Response:

- It is not within HS2's scope to provide betterment, rather to mitigate the impacts of the scheme.
- Important that HS2 and highway authorities work together to achieve good outcomes for the local community
- HS2 is governed by the limits in the hybrid Bill, Assurances and the Environmental Minimum Requirements.



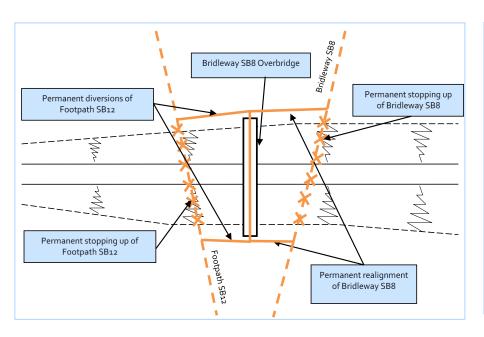
- 4.7 Provision for future development
 - "Future proofing this needs stronger positive inducement" (Herts)
- HS2 response:
 - For planned future developments or aspirations,
 Technical Standard already states that consideration should be given to ensuring that the design does not preclude plans (where reasonably practicable)
 - Requires specific authorisation through HS2 Ltd's governance procedures.

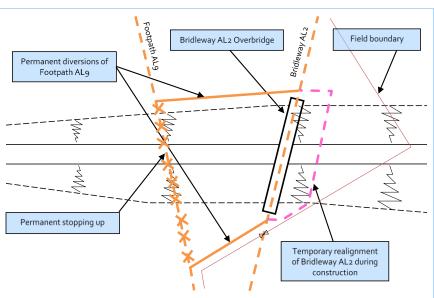


- 4.9.2 Temporary impacts during construction
 - "Does this mean that TTROs will not be used at all, even when the path will be re-instated over a tunnel?" (Northants)
- HS2 response:
 - Schedule 4 Part 2 relates to interference with highways, which means TTROs for PRoW is unlikely
 - Temporary interference relevant for all PRoW, not just those at tunnels



- 5 Alignments and crossings
 - 'Break' in PRoW, needing renumbering (Northamptonshire)







6 Legal width

- "...all replacement paths are a minimum of 4
 metres wide and ...where existing paths are wider
 than 4 metres the existing width is the minimum"
 (Camden)
- HS2 response:
 - Minimum width to considered on a case-by-case basis.
 - Technical Standards routewide, not by authority
 - Principles shown below relate:
 - (ii) Therefore, as a general rule, the starting point for design should be the existing engineering parameters when a public right of way is diverted or reinstated.
 - (iii) For new routes, the requirements should be based on other similar public rights of way of the same status in the area.



- Section 6.1.3 6.1.8 Legal width
 - "...there are routes which have Legal Orders on them which contain widths. HS2 should check with the authority..." (Staffs & Warwickshire)
 - "...The actual width in use may be wider than the minimum and this should be taken into consideration..." (Warwickshire)
 - "Reference should be made to a Local Authority's Rights of Way Improvement Plan..."(Warwickshire)
- HS2 response: Cl 6.1.4 now shown in black box
 - 6.1.4 Appropriate legal widths for each type of public right of way shall be discussed with the highway authority, with any variances to be considered on a case-by-case basis to take account of local constraints and landscape character. However, the absolute minimum requirements are given below.



7.12 Lighting

 "Sometimes minimal lighting can be very effective when showing a "clear tunnel" of visibility along a route i.e. one at each end." (Herts)

HS2 response:

- For discussion.
- Crime Prevention Through Environmental Design considerations covered in Section 4.4.



- 7.3.3 and 7.3.5 Gradient
 - "These appear contradictory to the statements preceding them. Care should be taken to ensure that these are not used as the default position. Regard should be given to DDA compliance: it should be borne in mind that users of wheelchairs also use bridleways, restricted byways and byways and consideration should be given to the gradients in these circumstances..." (Warwickshire)
- HS2 response:
 - Guidance regarding people with reduced mobility in Section 4.1 and 4.2

Footpaths

- 7.3.2 Footpaths preferably should not exceed 1:20 unless steeper gradients are already a feature of the route. An increase in gradient to 1:15 may be appropriate in situations where the footpath alignment is constrained or to reduce environmental impacts.
- 7.3.3 Footpaths shall not be steeper than 1:12 unless gradients steeper than this are already a feature of the route, in which case the gradient shall not exceed the existing maximum prevailing gradient.

Bridleways, restricted byways and byways open to all traffic

- 7.3.4 Bridleways, restricted byways and byways open to all traffic preferably should not exceed 3%, unless steeper gradients are already a feature of the route.
- 7.3.5 Bridleways, restricted byways and byways open to all traffic shall not be steeper than 5% () oo metres maximum) or 7% () o metres maximum) unless gradients steeper than this are already a feature of the route, in which case the gradient shall not exceed the existing maximum prevailing gradient.



- 7.3.7 Steps and ramps
 - "Steps only in the most exceptional of circumstances. See Network Rail Standards: Ramps – 1st; Steps- last resort." (Herts)
- HS2 response: new requirement inserted

7.3.8 Steps shall only be provided where there are reasonable alternatives available for people with reduced mobility (e.g. nearby ramps).



- 7.7.3 Gates
 - "No mention is made of extended hierarchy or BS 5709 or HA 1980 S66 safety gates." (Herts)
- HS2 response:
 - Extended hierarchy –please discuss.
 - BS5709 covered in SHW Series 300
 - Highways Act S66 does not appear to further assist Designer as project is under hybrid Bill



Highways Maintenance Agreement

- Held bi-lateral on 30th November with WCC and LBC
- Number of changes accepted
- Sent to WCC for review
- V13 circulated to sub-group.



Highways Maintenance Agreement

Next steps

- Minor changes to make to create V14 (expand on descriptive text in Schedules), remove final comments and highlight areas of disagreement.
- HS2 to consider Demarcation line wording and examples.
- Main area of remaining concern is the unlimited liability on authorities.





Forward Plan

Planning Forum Document Route Map – Dec 2015

Title	Engagement	1 st Draft	2 nd Draft	3 rd Draft	4 th Draft	Final		
Environmental Minimum Requirements								
General principles	NEF, Planning Forum	Autumn 2013	Nov 2013	May 2015	End of HoC	Royal Assent		
Environmental Memorandum	NEF, Planning Forum	Autumn 2013	Nov 2013	May 2015	End of HoC	Royal Assent		
Planning Memorandum	Planning Forum	Sept 2013	Nov 2013	April 2015	End of HoC	End of HoL Select Committee		
Heritage Memorandum	EH and Planning Forum	Autumn 2013	Nov 2013	April 2015	End of HoC	Royal Assent		
СоСР	NEF, Planning Forum	Autumn 2012/ May 2013	Bill deposit	July 2015	End of HoC	Royal Assent		
U&As register	TBC	During parliamentary process			Royal Assent			
<u>Other</u>								
Planning Regime (Principles)	Planning Forum	April 2013	Sch 16 of the Bill subject to petitions and Select Committee. Discussion on common issues — Planning Forum			Royal Assent		
Statutory Guidance	Planning Forum	April 2013	October 2015		End of HoC	Post Royal Assent		
Construction arrangements class approval	Planning Forum	July 2014	July 2015		End of HoC	Post Royal Assent		
Pre-submission funding	Planning Forum	Agreement in principle -April 2014	Discussion on fundir	ig and mechanisms - P	lanning Forum	End of HoL Select Committee		
Fee Regulation	TBC	TBC				Post Royal Assent*		
*This does not preclude earlier discussion on additional funding, eg during the Bill process Action with LPAs Action with HS2/DfT								

Forward Programme – Dec 2015

2015/16	HS2 Phase One Planning Forum					
Dec	 gth / 10th LPA feedback on Schedule 16 Statutory Guidance 2nd Draft HS2 Ltd/DfT approach to community engagement in design development Lead local authority feedback on petition negotiations 					
January	 27th / 28th TBC Code of Construction Practice Planning Forum Note – Standard Conditions Design approaches – stations 					
March	 TBC Construction programme Planning Forum Note – Content of Sch. 16 submission Design approaches – Headhouses and ventshafts 					
May	 TBC Planning Forum Notes Design approaches – Bridges Fee Regs and Appeal Regs 					
July	 TBC Construction programme Planning Forum Notes Design approaches – Depots 					

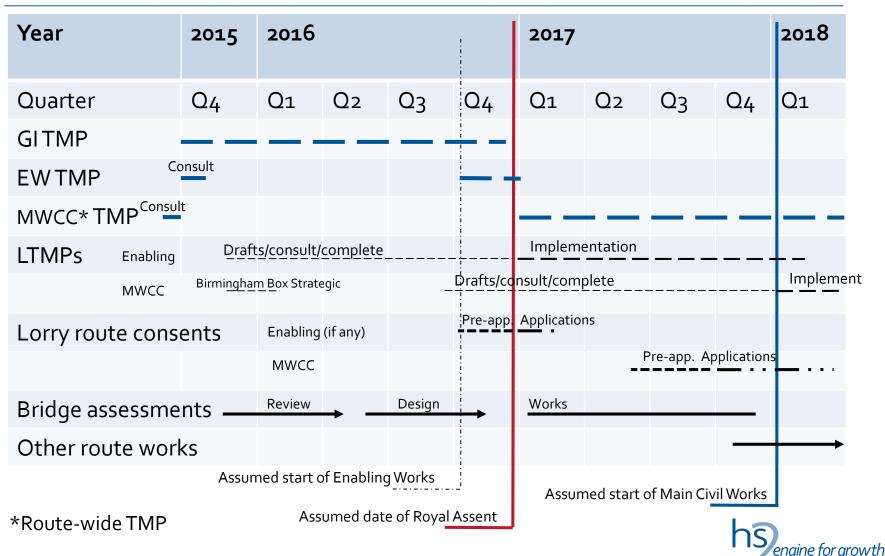


Forward Programme – Dec 2015

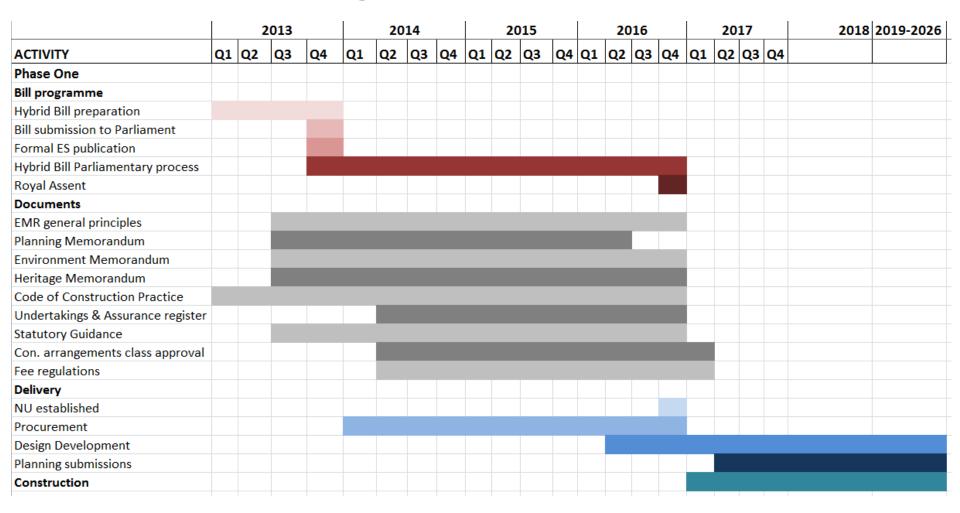
Updated highways tracker to be provided in New Year

2015	Subgroup: Environmental Health	Subgroup: Highways	Subgroup: Heritage	Subgroup: Flood Risk and Drainage
Dec		 16th Euston Technical Standards feedback Pt1 Traffic Management Updates LTMP, RTMP, Enabling Works TMP 	 10th Birmingham HERDS Update External speaker Project updates 	
Jan 16	22 nd London • Agenda TBC			TBC Birmingham • Consents workshop
Feb 16		 2nd Warwick Technical standards feedback Pt2 Consents and approvals Signals works agreements Highways maintenance agreement Local authority funded transport 		 TBC Feedback on consents workshop Other technical standards
Mar 16		 16th Euston Schedule 16 – lorry route approvals Technical Standards Bridges Highways Maintenance Agreement Structures and asset protection 	TBC Schedule 16 – briefing HERD's update Select committee update Enabling works contract ITT	
Apr 16				
May	ТВС	 4th Warwick TBC Lorry route consents – work plan Specification for Highway Works LTMP's for enabling works Methodology for condition surveys Winter maintenance 		

Draft Traffic management programme



HS2 Indicative Programme (Dec 2015)



NB: Subject to change. Delivery dates dependent on Royal Assent

