



HS2 Phase One Planning Forum – Highways Subgroup

Meeting #11

18 November 2015



Highway condition surveys

Issues

What roads should be surveyed?

How often surveyed?

What defects should be rectified?

Should road pavement be upgraded before works commence (potentially down to foundation)?

How can the project avoid repairing “normal wear and tear”?

What legislation requirements are there?

Route-wide TMP

Site access point – condition surveys – kerbs and verge by the principal contractor

- Routes to be consulted
- Approved lorry routes
- Exclude motorways, trunk roads
- Exclude A roads unless “extraordinary traffic loading” predicted
- Include diversion of traffic to a road of a lower standard (A to B etc)

Route-wide TMP

- Surveys before and after main construction use by works traffic
- Some pre-construction remedial works could be required – if so, no further surveys
- Surveys to be undertaken on non-lorry routes to act as a comparison to the level of deterioration

Further work on methodology

Discussions have been held with TRL on best approach.

Subject to HS2 governance:

- Development of a methodology
- Testing the methodology on sample routes and maintenance algorithms and trailing
- Specification for surveys

Further work on methodology

HS2 to tender for an independent expert to perform:

- Route-wide monitoring.
- Calculation of reduction in residual pavement service life and to return the condition to the level had no HS2 construction occurred.
- Calculation of additional maintenance required to accommodate the additional vehicles.
- Reporting



Local TMP areas

Current proposals in the RTMP

Proposed that LTMP areas align with the CFA areas:

Euston
London Tunnels
Colne Valley
Langley Depot
Buckinghamshire
Three counties (three
CFA areas)

Warwickshire south
Birmingham Box Strategic
Birmingham Interchange
Birmingham Junction
Birmingham Central
Staffordshire

Revised proposals

LTMP areas align with highway authority areas:

Camden TMP

Mini TMPs for London vent shafts

Hammersmith and Fulham (OOC Station) TMP

Hillingdon and Hertfordshire TMP

Slough TMP

Buckinghamshire and Oxfordshire TMP

Northamptonshire TMP

Revised proposals in the RTMP

But that around Birmingham, continue to have overlapping LTMPs:

Warwickshire South TMP

Birmingham Box Strategic TMP

Birmingham Interchange area

Birmingham Junction area

Birmingham Central (Curzon Street Station)

Staffordshire TMP

Timetable for LTMPs

Year	2015				2016				2017				2018
Quarter	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Enabling works	Drafts/consult/complete				Implementation								
Main Civil Works	Birmingham Box Strategic				Drafts/consult/complete				Implementation				

Assumed start of Enabling Works

Assumed date of Royal Assent

Assumed start of Main Civil Works



GA Designs



Green Bridges

Richard Adam

Green bridges – introduction

- The Phase One hybrid Bill scheme contained 16 'green bridges' of various kinds
- Green bridges are to be provided where necessary to help mitigate the potential environmental impacts of the scheme
- Green bridges are typically footbridges, road bridges or agricultural access bridges which have been adapted to allow wildlife to cross the railway safely
- Main difference between a standard bridge and a green bridge is increased width to allow vegetation, typically including a hedgerow, to be planted along the structure on one or both sides of the bridge

Green bridges – Additional Provisions (APs)

- The July 2015 Additional Provision (AP₂) included the following changes:
 - Footpath AX15 Overbridge relocated slightly and became 'green' following updated survey results
 - 'Green' functionality of Banbury Road Overbridge switched to Stoneton Lane Green Overbridge
 - 'Green' functionality of former Hints Footpath 14 Overbridge switched to Brockhurst Lane Green Overbridge
 - 'Green' functionality of Footpath M214 Overbridge removed following updated survey results
- The October 2015 Additional Provision (AP₄) included the following change:
 - FCC accommodation access function of Calvert Green Overbridge switched to separate structure
- Net result: there remain 16 green bridges in the scheme

Green bridges – Different types

Three main types of green bridge:

- **Type 1:** *purpose is to maintain populations of rare and vulnerable bat species* (6 examples)
- **Type 2:** *purpose is to maintain habitat connectivity for bats and other species* (9)
 - **Type 2a:** features hedge on one side (5)
 - **Type 2b:** features hedges on both sides (4)
- **Type 3:** *other purpose* (1)
 - Turweston Green Bridge, provided to mitigate community effects in village



Paved Verges on Bridges

Andrew Savage
(Warwickshire CC)

Paved verges on bridges - WCC proposal

Road Type – and any specific bridge	Speed	User profile	Verge width and other comments
Dual carriageway	70 mph	Cars and HGVs	3 m both sides
Rural –7.3m wide carriageway	60 mph	Potential equestrian use	3 m both sides
Rural –Structures 25-50 m long	50 mph	Potential equestrian use	2 m and 3 m verges
Rural –Structures 50-75 m long	50-60 mph	Potential equestrian use	3 m verges both sides to reduce risk of large animal vehicle impacts on 60 mph roads
Roads with combined cycle and footways created	30-70 mph	Pedestrians, cyclists and equestrians	3 m verge width and 2 m
Overbridge with pronounced vertical curve	40-70 mph	All road users	A hard strip is to be created on the crest approach of at least 0.5 m

NB – HS2 Ltd has yet to respond to this proposal.

Highways Maintenance Agreement

- HS2 Version 9 now provided to WCC with track changes.
- Some text from Kent Agreement re-inserted
- Tables now align with IP E29.
- Some protective clauses (to match council protective clauses) added in.
- WCC have reviewed and marked up document. Version 10 has been circulated.
- Separate off-line meeting with leads in late Nov.

Matters Directed to the Sub-Group

- Strengthening of roads prior to construction traffic use.
- Clause 11(3) of Schedule 31 – Part 1.
- Condition Surveys (Covered in meeting).





Forward Plan

Planning Forum Document Route Map – Nov 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
CoCP	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
Other						
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 funding and mechanisms - Planning 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

Highways Subgroup Route Map – Nov 2015

Title	July	Sept	Oct	Nov	Dec	Future
Permanent Works						
Highways Maintenance Agreement		Feedback on proposed draft agreement	Draft agreement review issued			For implementation post royal assent
Technical Standards		Presentation and issue of draft	Feedback from authorities		HS2 Feedback Pt 1	Finalised by royal assent
New Burdens Assessment – Highways Maintenance	Presentation on Initial findings	Feedback on discussion with sample authorities				Detailed work after royal assent when programme available
Consents and Approvals			Draft approach		Authorities Provide Feedback	Finalised by royal assent
Temporary Works						
Route-wide Traffic Management Plan	Presentation and first draft Issue	Presentation on Vehicle flow management and vehicle / driver safety management	Feedback from authorities		Final Draft	
Local Traffic Management Plan					Agenda item	Consult summer next year. Implemented post royal assent (ECI Contactor input)
Signals Works Agreements	Feedback on progress		Authorities Contacted by HS2			Agreement before royal assent
Methodology for Conditions Surveys				Agenda item		Agreement sought and implemented pre-construction
Enabling Works TMP		Draft issued		Feedback from authorities	Likely Agenda Item	

Action with Highways Authorities



Action with HS2/DfT



Forward Programme – Nov 2015

2015	HS2 Phase One Planning Forum
	28th
Oct	One meeting in London to introduce: <ul style="list-style-type: none"> • Design Panel Chair • Residents Commissioner • Construction Director • HS2/DfT feedback on LPA response to General Principles 3rd Draft and Environmental Memorandum 3rd Draft • HS2/DfT Schedule 16 Statutory Guidance 2nd Draft
Nov	
	9th / 10th
Dec	<ul style="list-style-type: none"> • LPA feedback on Schedule 16 Statutory Guidance 2nd Draft • HS2 Ltd/DfT approach to community engagement in design development
Jan 16	27th / 28th TBC
	<ul style="list-style-type: none"> • Planning Forum Notes – Standard Conditions
March 16	Date TBC
	<ul style="list-style-type: none"> • Construction programme • Planning Forum Notes – Content of Sch. 16 submission
May 16	Date TBC

Forward Programme – Nov 2015

2015	Subgroup: Environmental Health	Subgroup: Highways	Subgroup: Heritage	Subgroup: Flood Risk and Drainage
Oct		14th Euston <ul style="list-style-type: none"> Route Wide Transport Management Plan feedback Consents and approvals 		7th <ul style="list-style-type: none"> Technical Standards Water Consenting Strategy Terms of Reference
Nov		18th Warwick <ul style="list-style-type: none"> Condition surveys LTMP areas Green Bridges Paved Verges on Bridges Highways maintenance 		
Dec		16th Euston <ul style="list-style-type: none"> Local Traffic Management Plans Technical Standards feedback Pt1 Enabling works Enabling works TMP feedback 	10th <ul style="list-style-type: none"> HERDS Update External speaker Project updates 	Date TBC <ul style="list-style-type: none"> Consents workshop
Jan 16	22nd <ul style="list-style-type: none"> Agenda TBC 			
Feb 16		Date TBC <ul style="list-style-type: none"> Technical standards feedback Pt2 Schedule 16 – lorry route approvals Consents and approvals 		Date TBC <ul style="list-style-type: none"> Feedback on consents workshop Feedback on technical standards