

HS2 Planning Forum
Highways Sub-group
Meeting #22
29 March 2017

Minutes and Ongoing Actions

Chair

March 2017

Guidance Notes - Update

Richard Adam/John Woodhouse

March 2017

Guidance Notes

- Considering publication on HS2 website of key material for Highways Authorities.
- Tracker being developed to improve awareness of guidance notes, technical standards and information paper availability
- Future guidance notes to be considered by Highways Sub Group
- Tracker will also serve as useful forward plan.
- Tracker is draft at present, but will be finalised and sent to group as part of regular minutes.

RTMP and LTMPs

Peter Tomlin

March 2017

RTMP

- Scope of changes described in last Highways Sub Group meeting
- Revisions issued 17/3/17, following approval from LDB
- Comments on the amendments required by Friday 21 April 2017
- Should there be any policy changes required, will need to be referred back to LDB
- Final version will be issued to principal contractors

LTMPs

- Draft Enabling Works – based on the ES, so forms the baseline assumptions
 - All drafted, but needs EDP to check before HS2 acceptance and then issue for consultation
- Updated Enabling Works LTMP – as necessary, as scope is developed
- Main Works Civil LTMP – incorporating any residual enabling works
- Station Works Civil LTMP – as appropriate

MWCC LTMPs

The LTMPs are completed by the *Contractor* at least 32 weeks prior to the *Contractor* commencing Stage Two or the Notice to Proceed to Stage Two (or such other lesser period agreed by the *Project Manager*).

The *Project Manager* reviews the proposed LTMPs and consults with regard to their content with the relevant highway authorities and other stakeholders. The *Contractor* revises the LTMP to reflect comments from the relevant highway authority and provides the revised LTMP to the *Project Manager* within the *period for reply*.

The *Contractor* complies with and implements the accepted LTMPs applicable to the Working Area.

The LTMPs are periodically reviewed until Completion of the whole of the *works* where there is a significant and material change to the assumptions contained within the LTMP.

Consent submissions content

Richard Adam/Peter Tomlin

March 2017

Consent Forms

- Number of consents required by HS Act.
- Forms for each type(s) of consent to be created and submitted with application.
- Forms for Temporary Interference and Temporary accesses have been created and will be circulated following the meeting.
- Forms for Permanent Highway Works (Schedule 4, Para 10/11) have also been created.
Comments sought.

Consent Content – Temp Interference

Details to include:

- Phasing Diagrams
- Direction signing
- Advance Notification
- Temporary Traffic Management Plans
- Road Safety Audit Report and/or exceptions
- Modelling assessment reports (as necessary/for info)
- Portable Signals Modelling
- Draft Traffic Regulation Orders
- Detailed drawings for street furniture and standard construction detail
- Revised Lighting Details
- Revised Drainage Details
- Pedestrian and Equestrian Routes
- Standard details for footpath crossovers
- Information on revisions to public transport service routes
- BD2 approval for temporary highway structures
- Hoardings and Advertising right suspensions
- Cameras
- Method statement and Risk Assessments
- Plans, sections and other drawings as required
- Materials specifications
- Highway boundary indication

Schedule 4, Para 10/11

Submission checklist *[tick as appropriate]* (give details in Annex A)

Submission checklist <i>[tick as appropriate]</i> (give details in Annex A)	
Location plan and general arrangement	✓
Long sections and cross sections	
Standard details	
Site clearance	
Fencing	
Road restraints systems	
Drainage and service ducts	
Earthworks	
Pavements	
Kerbs, footways and paved areas	
Traffic signs and road markings	
Road lighting / brackets / CCTV masts	
Electrical work for lighting / signs	
Landscape	
Other (please specify)	

Supporting documents (for information)	
Technical note(s) / report(s)	
Road Safety Audit reports – stages 1 / 2	
Road Safety Audit Response report(s)	
Road Safety Audit Exception report(s)	
Non-Motorised User audit report(s)	
Retaining walls / minor structures	
Departures	
Traffic models / calculations	
Utilities information	
Environmental information	
Third party information	
Health and safety / CDM information	
Quality assurance information	
Design certificates	
Other (please specify)	

Guidance Notes – Bridge Maintenance Demarcation Lines & Highway Boundary considerations

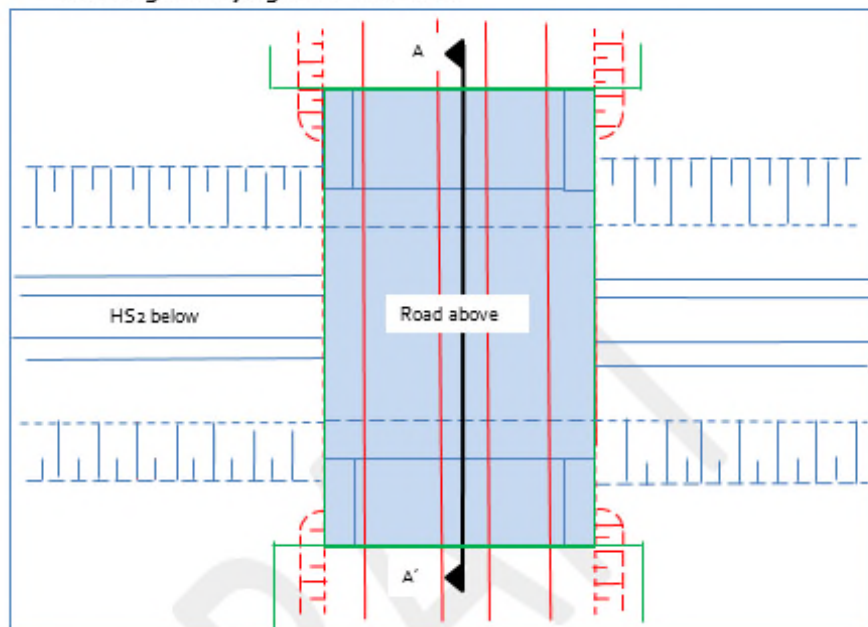
Chris Whitworth

29 March 2017

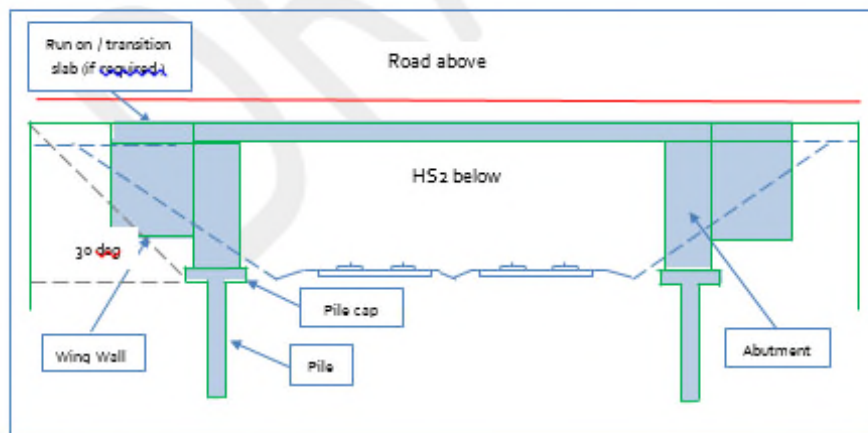
Demarcation Lines - Purpose

- To provide guidance on the production of drawing and plans to define areas and extents of the maintaining organisations assets responsibilities
- Wide variety of interfaces to be considered, e.g.”
 - Highways under or over other (non HS2) railway
 - Network Rail
 - Transport for London
 - Highways under or over another highway
 - Accommodation access under or over highways
 - Highways over canals
 - Highways over watercourses
 - Temporary highway bridges
- Colour coding of diagrams; delineation of areas – green, HS2 maintenance responsibility – blue, Highway Authority – red, network rail – grey

A.1 Typical demarcation line location at abutments of single-span overbridges carrying roads over HS2.

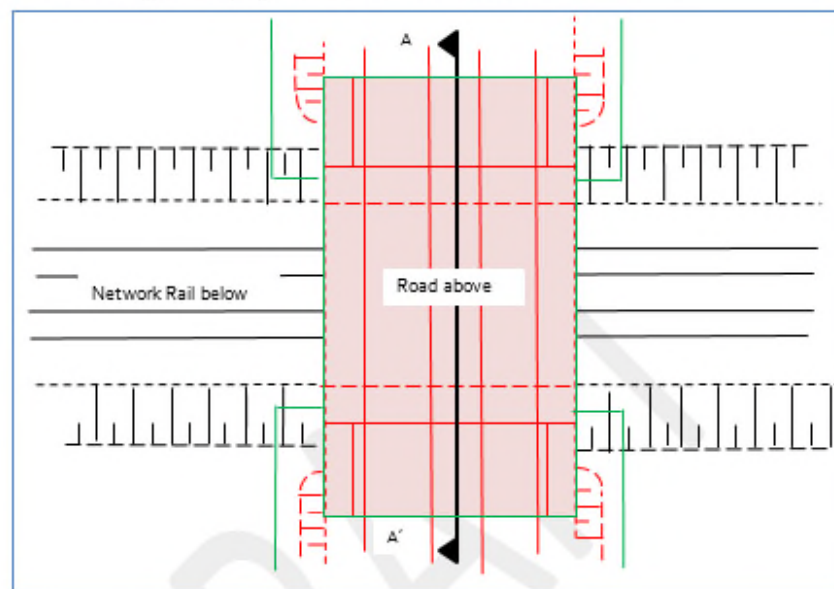


Plan

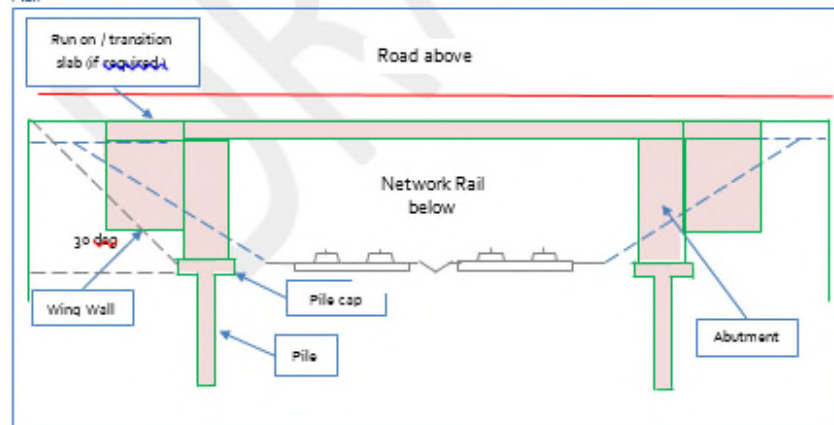


Section A'-A' along centerline (not to scale)

A.2 Typical demarcation line location at abutments of single-span overbridges carrying roads over Network Rail

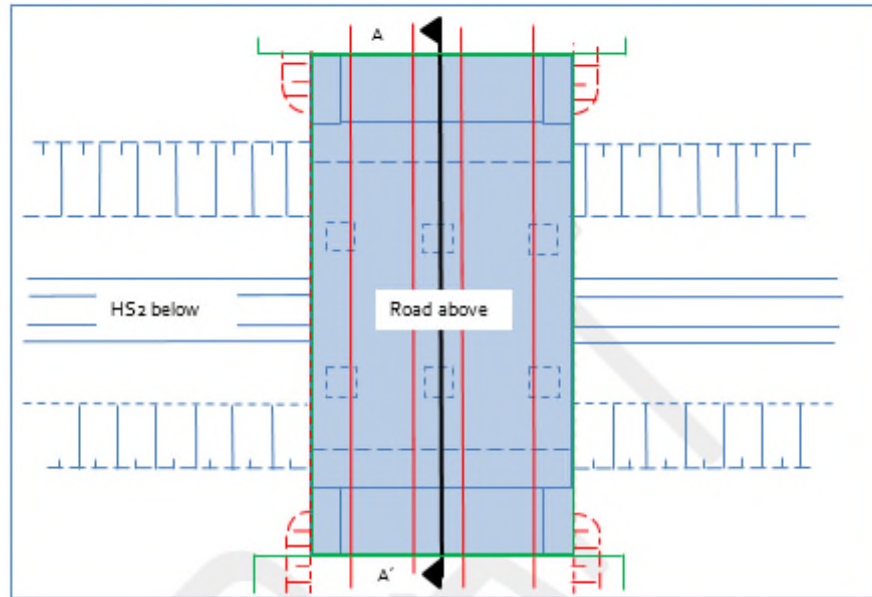


Plan

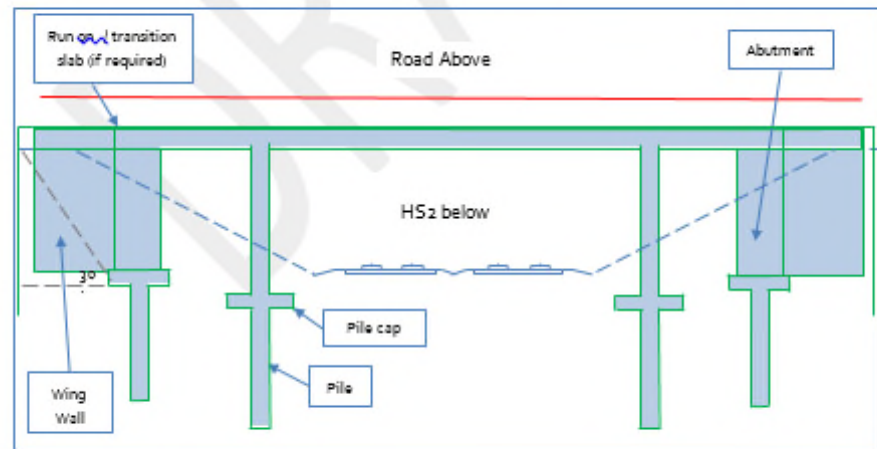


Section A'-A' along centerline (not to scale)

A.3 Typical demarcation line location at abutments of multiple-span overbridges carrying roads over HS2

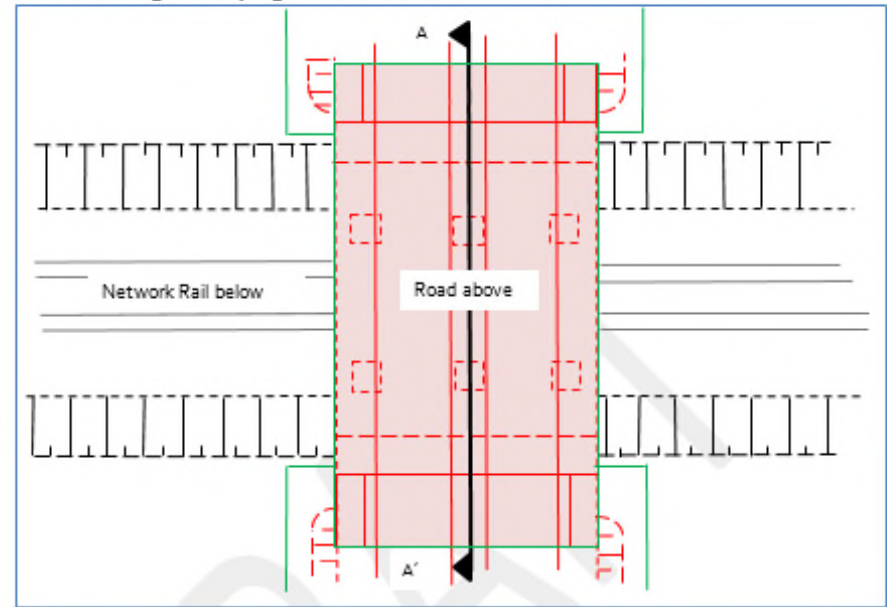


Plan

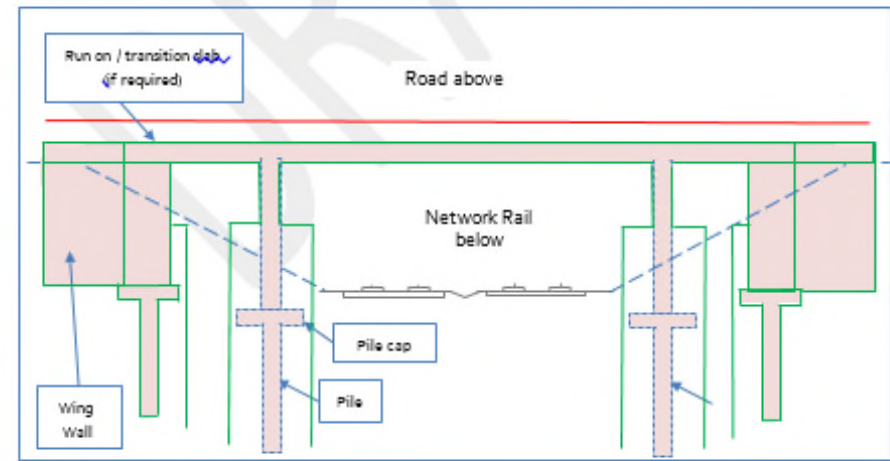


Section A'-A' - along centreline (not to scale)

A.4 Typical demarcation line location at abutments of multiple-span overbridges carrying roads over Network Rail

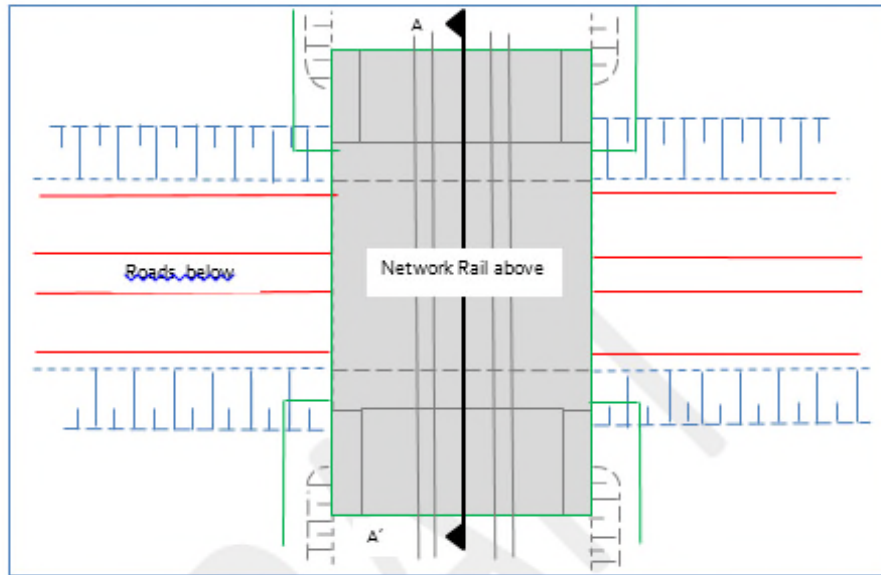


Plan

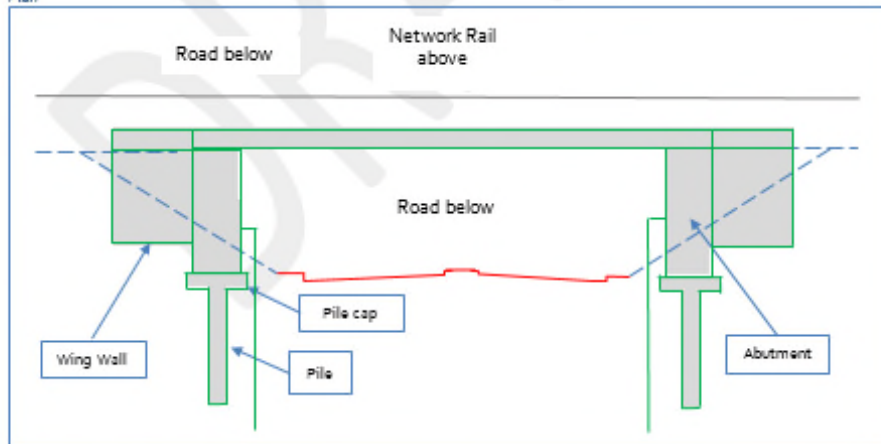


Section A'-A' - along centreline (not to scale)

A.7 Typical demarcation line location for single-span overbridges carrying Network Rail over roads.

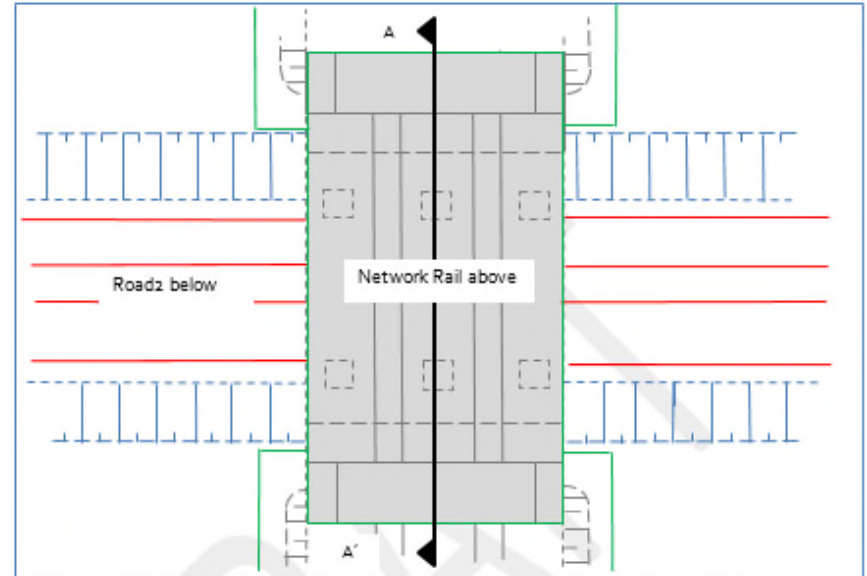


Plan

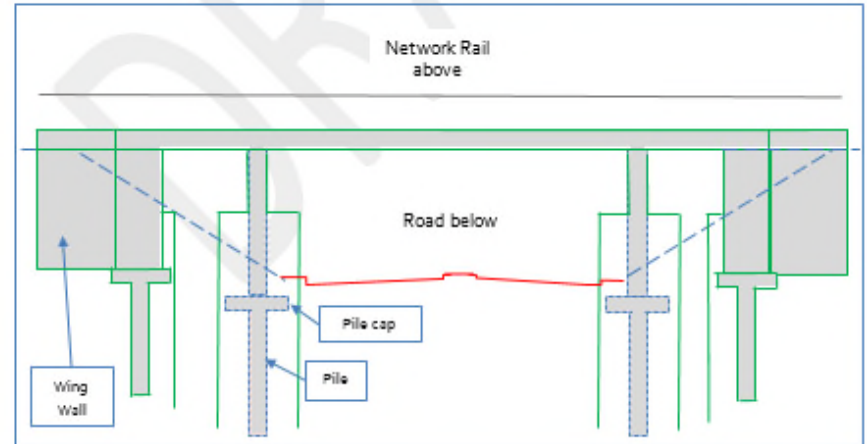


Section A'-A'' along centreline (not to scale)

A.8 Typical demarcation line location for multiple-span overbridges carrying Network Rail over roads.

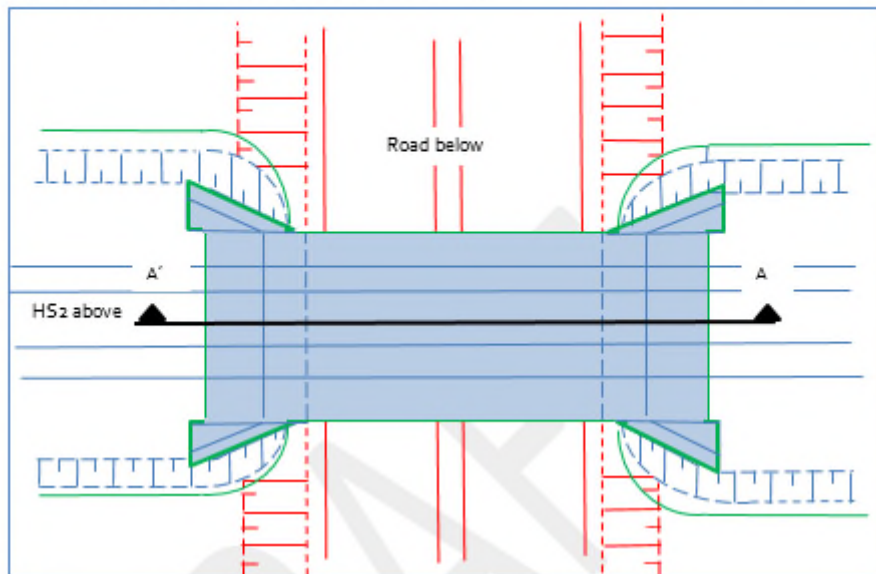


Plan

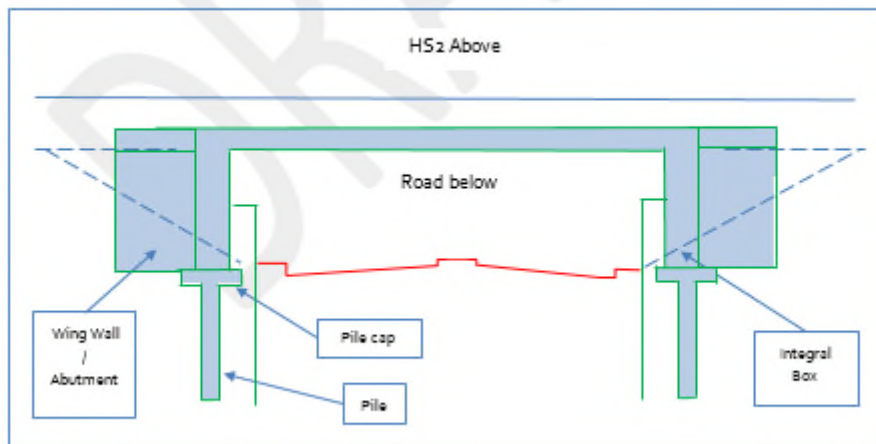


Section A'-A'' along centreline (not to scale)

B.1 Typical demarcation line location at abutments of single-span portal-type underbridges carrying HS2 over roads.

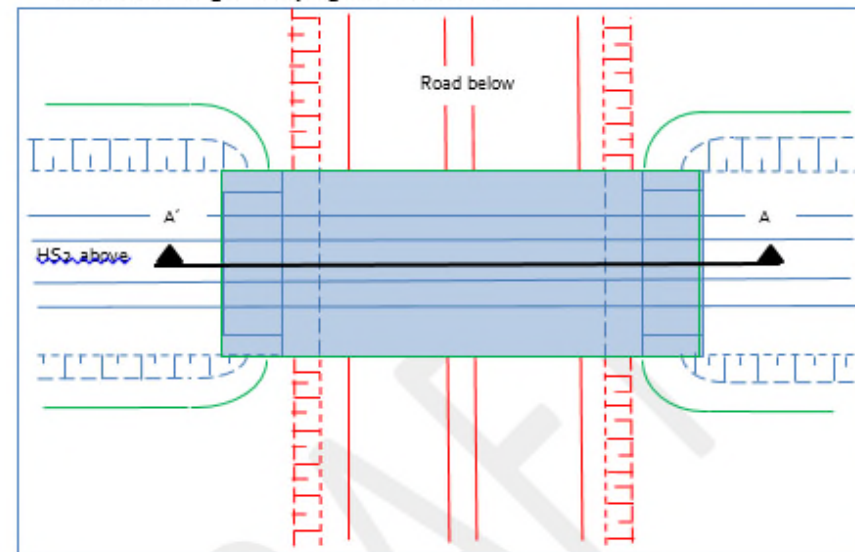


Plan

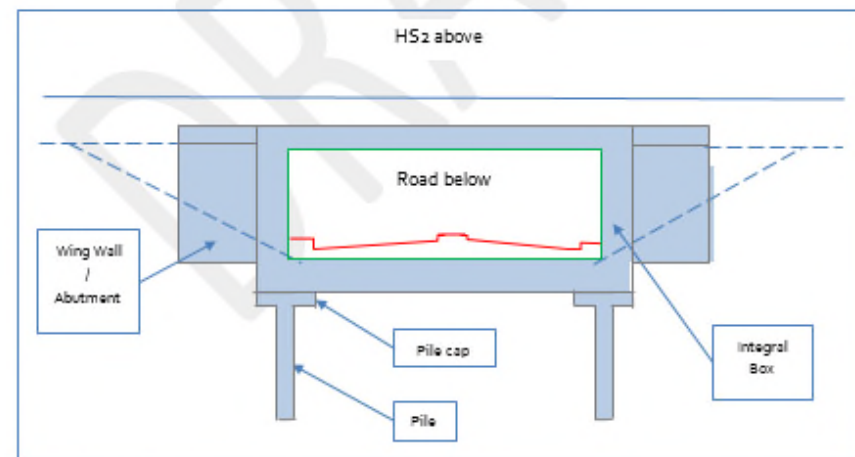


Section A'-A along centreline (not to scale)

B.2 Typical demarcation line location at abutments of single-span integral box underbridges carrying HS2 over roads.

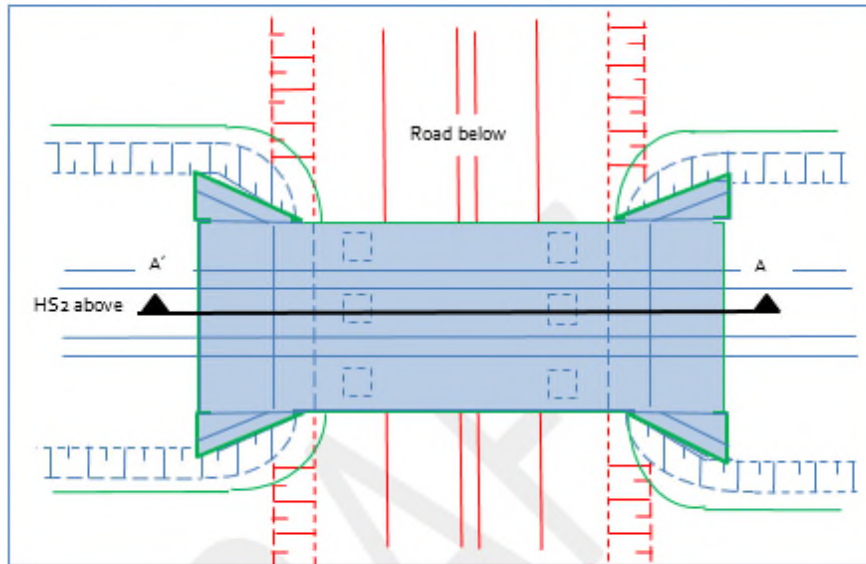


Plan

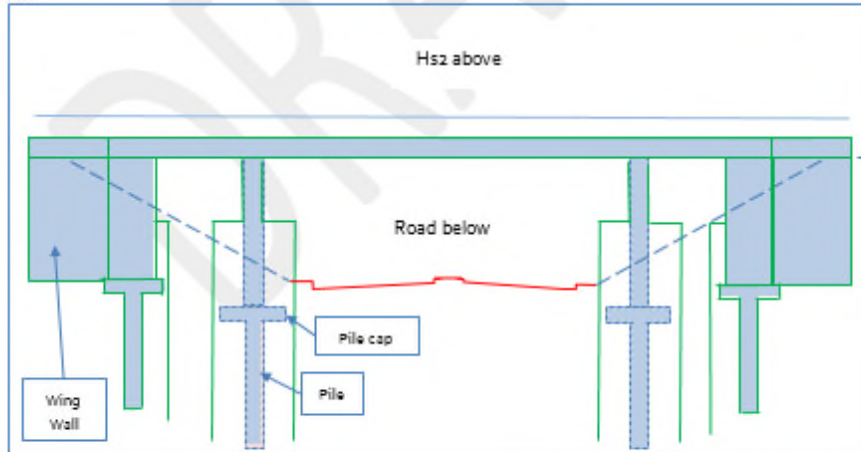


Section A'-A along centreline (not to scale)

B.3 Typical demarcation line location at abutments of conventional multiple-span underbridges and viaducts carrying HS2 over roads

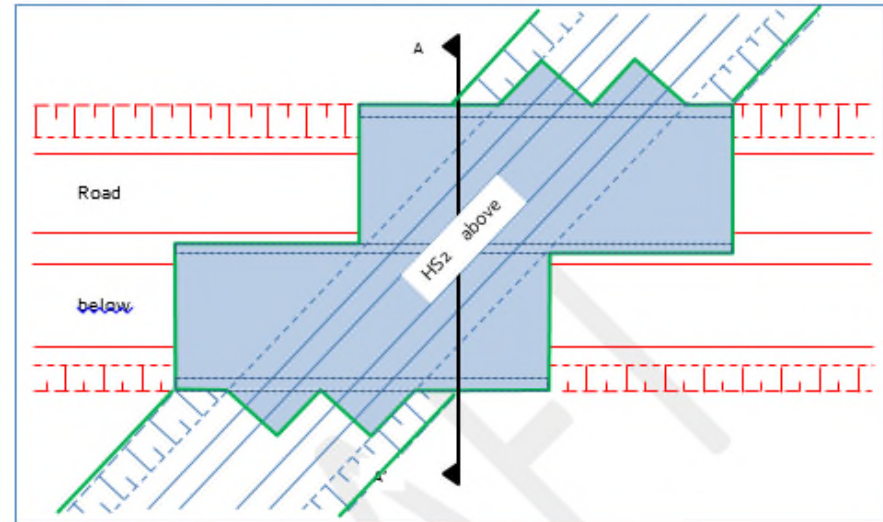


Plan

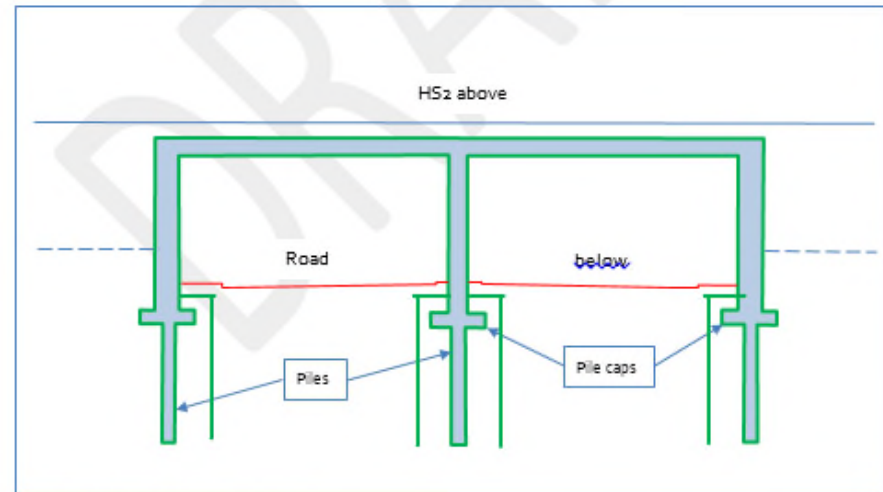


Section A' - A along centreline (not to scale)

B.4 Typical demarcation line location at abutments of 'pergola'-type multiple-span underbridges carrying HS2 over roads.

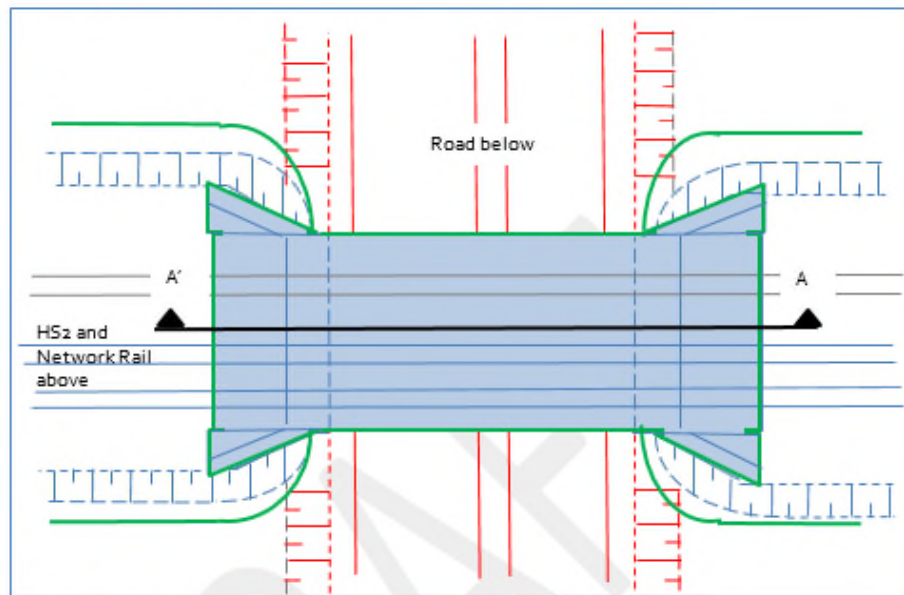


Plan

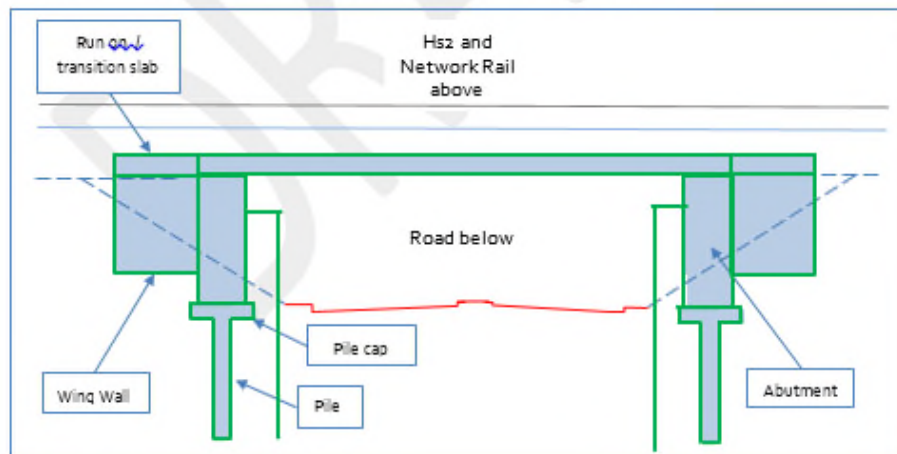


Section A' - A along centreline (not to scale)

B.7 Typical demarcation line location for single-span underbridges carrying HS2 and Network Rail over roads.



Plan Note: A similar indicative arrangement will apply to roads over Network Rail or canals



Section A-A' - $\frac{1}{2}$ (along centreline) (not to scale)

Highway Boundary Considerations - Guidance Note

- Version Po1 of Guidance Note issued for comment:
- Construction affects on highway boundaries
 - alteration of existing
 - new.
- Provides guidance about the appropriate location for new or altered highway boundaries in a variety of situations that arise.

***3.2 Bridges carrying highways under or over HS2**

* Most common interface

Highway Boundary - Types of Interface

3 Boundaries with HS2

4 Boundaries with other transport infrastructure owners

5 Boundaries with other landowners

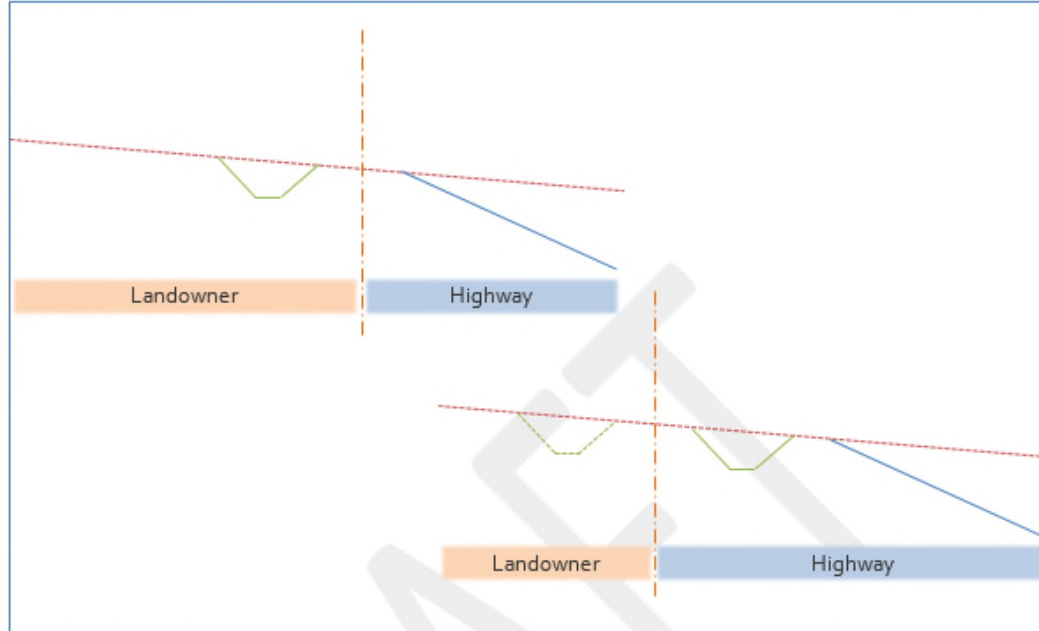
6 Boundaries with other land owned by the highway authority

7 Asset-specific considerations

- **Highway drainage systems -Drainage not falling within the Highway boundary - Appendix A**
- **Highway landscape mitigation planting – Appendix B**
- Highway Landscape mitigation works and neighbouring agricultural land
- Highway noise barriers
- Statutory undertaker apparatus

Asset considerations – Drainage Appendix A

A.3 Surrounding land sloping towards highway cutting

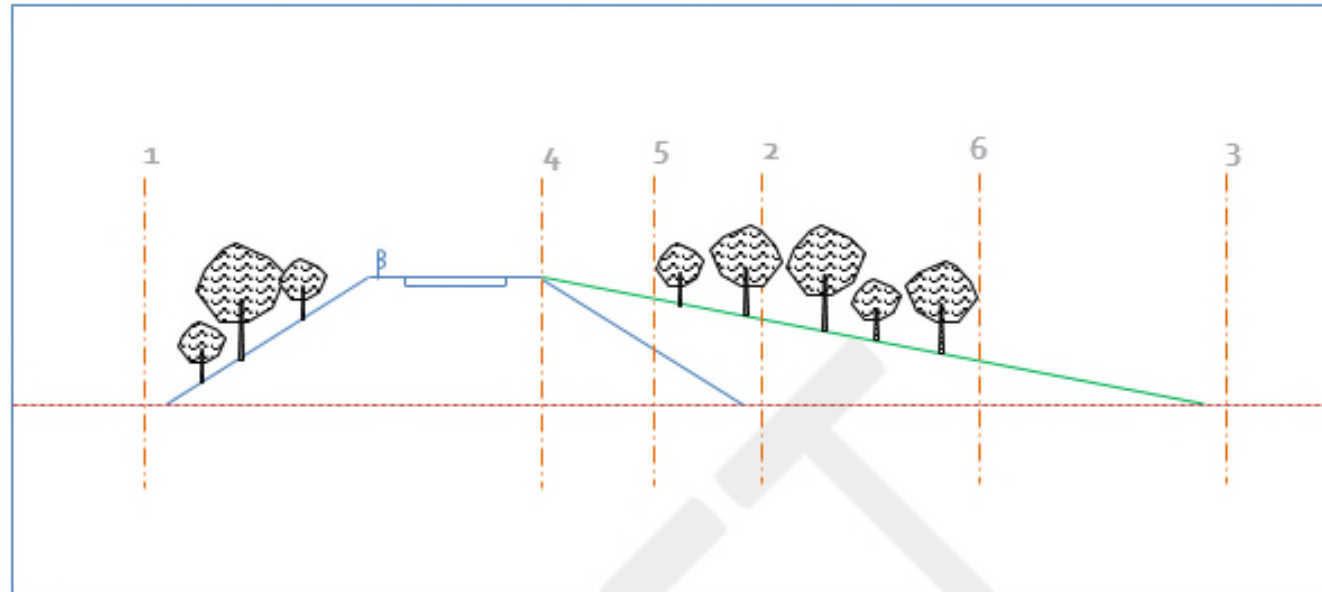


Typical cross section

Potential advantages of each option	Potential disadvantages of each option
Perimeter drainage ditch (or filter drain) located beyond highway boundary	
Usual location of ditch (or filter drain) to support Highways Act obligation on landowner to prevent surface water runoff from adjoining land entering the highway	Relies on landowner to maintain ditch (or filter drain) in order to prevent risk of flooding adjoining highway
Any HS2 or third-party drainage does not need to enter highway perimeter drainage system	

Asset considerations – Mtgation planting Appendix B

B.1 Highway landscape mitigation planting and earthworks – embankments

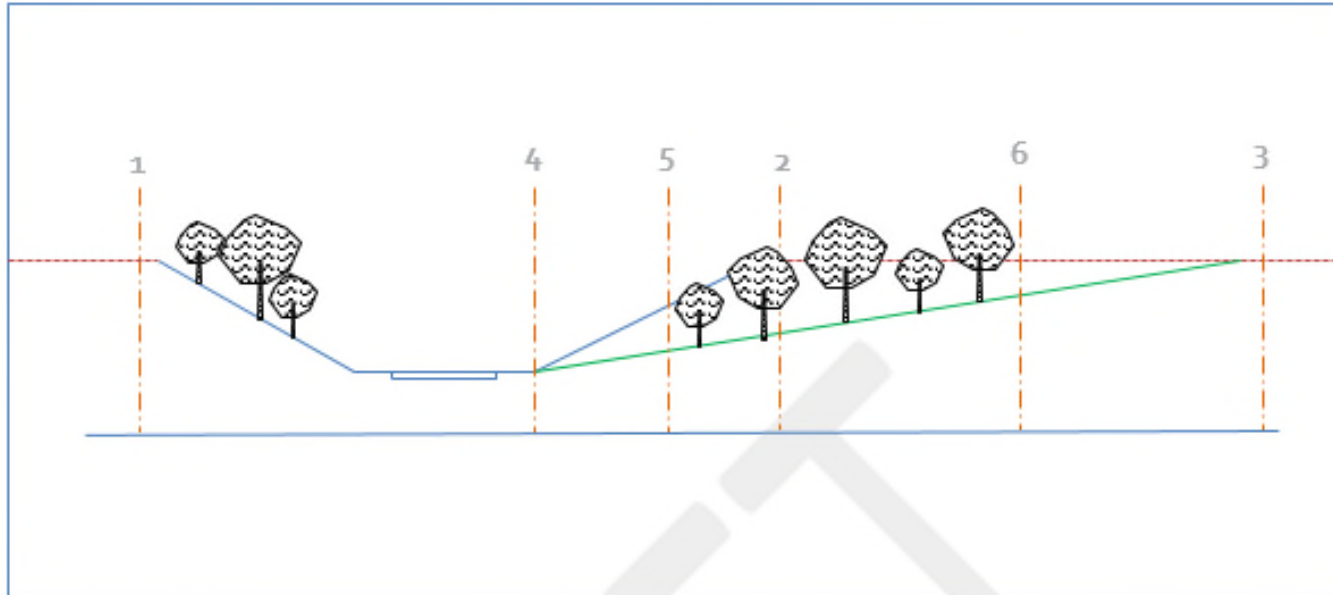


Typical cross section

Potential advantages of each option	Potential disadvantages of each option
Location 1 – Highway boundary offset from toe of embankment (usual location if no landscape mitigation earthworks)	
Enables maintenance of earthworks, drainage (if present – see Appendix A) and highway landscape mitigation planting using carriageway and verges for access	Authorisation required to enable maintenance contractor to be exempt from any traffic regulation restrictions (e.g. weight, width, speed, parking, motorway)
Layout can include designated parking facilities	Other road users may misuse parking facilities
Minimum effect on area of useable agricultural land	

Asset considerations – Mitigation planting Appendix B

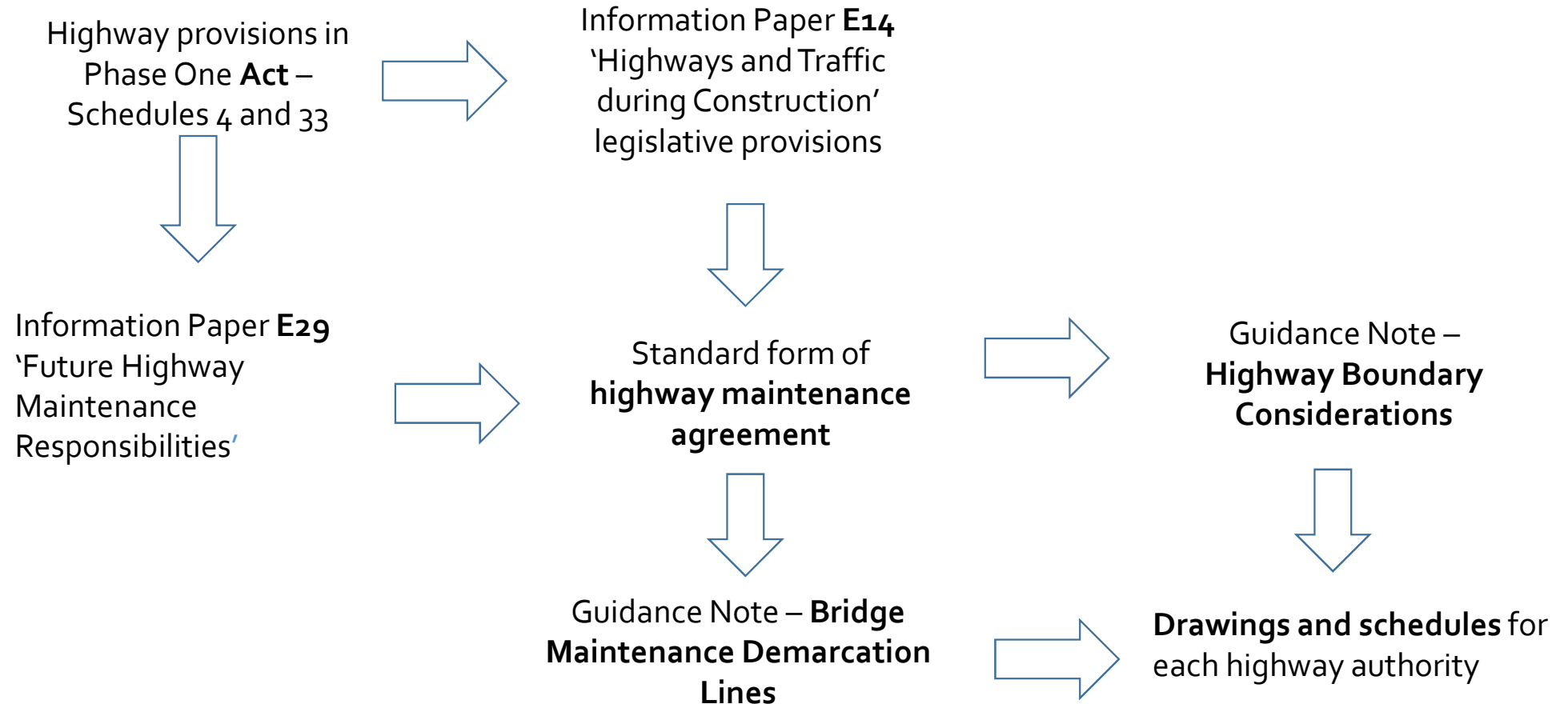
B.2 Highway landscape mitigation planting and earthworks – cuttings



Typical cross section

Potential advantages of each option	Potential disadvantages of each option
Location 1 – Highway boundary offset from top of structural cutting (usual location if no landscape mitigation earthworks)	
Enables maintenance of earthworks, drainage (if present – see Appendix A) and highway landscape mitigation planting using carriageway and verges for access	Authorisation required to enable maintenance contractor to be exempt from any traffic regulation restrictions (e.g. weight, width, speed, parking, motorway)
Layout can include designated parking facilities	Other road users may misuse parking facilities
Minimum effect on area of useable agricultural land	

Boundary / demarcation considerations



Boundary / demarcation drawings

- It is proposed that boundary details are included on drawings :
 - Included in handover packages submitted by nominated undertaker after certificate of completion
 - Attached to highway maintenance agreements with each highway authority
- Drawings to show:
 - New or revised highway boundaries
 - along each side of road
 - at tie-ins at each end
 - Demarcation lines where bridge maintenance responsibilities do not coincide

AOB
All

AOB

1. Lorry routes where highway authorities wish routes to be temporarily diverted as a part of network management duties
2. Schedule 25 – traffic orders
 - Undertaking
 - Guidance

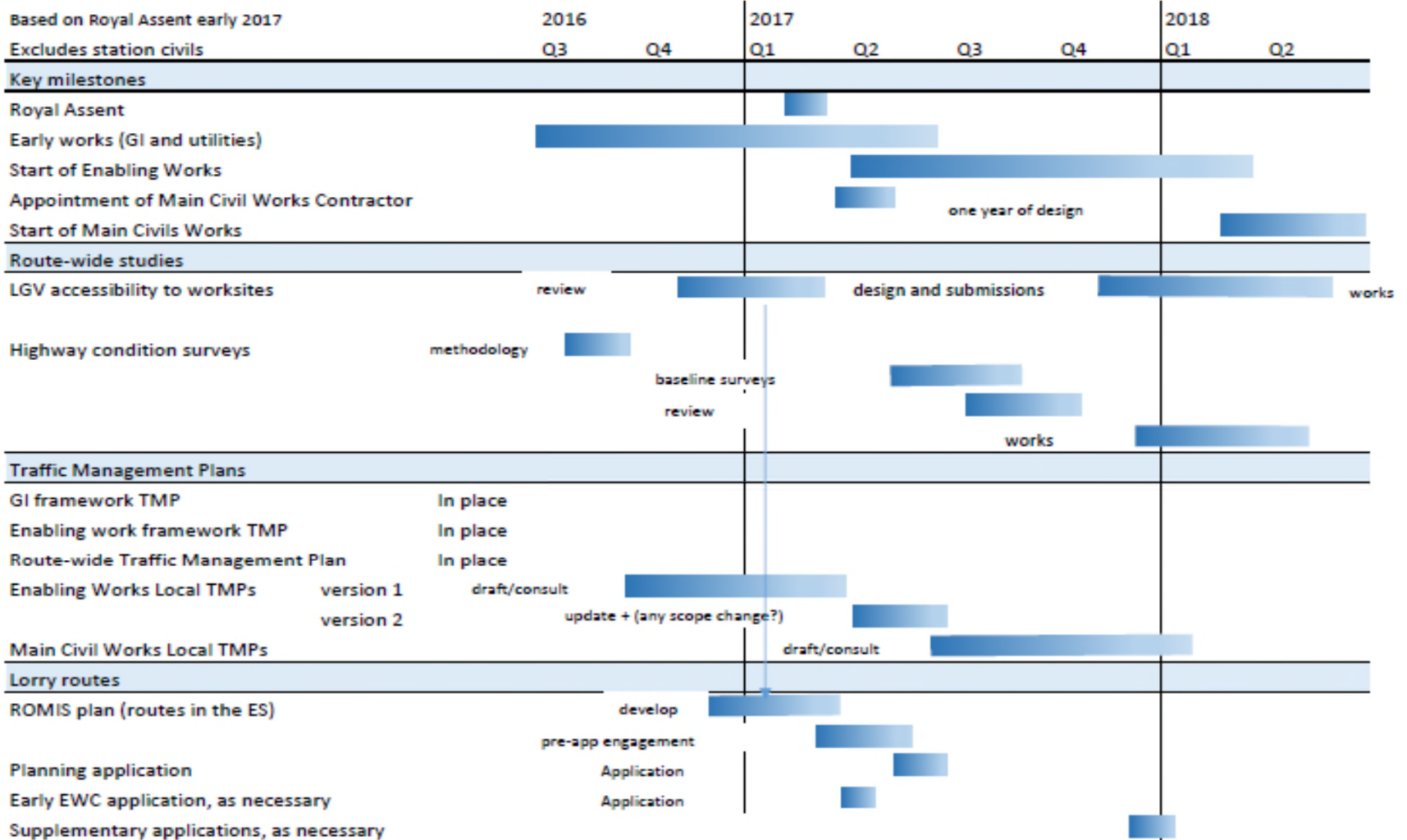
Forward Plan

All

Temporary traffic management

Indicative/Generic timings

Based on Royal Assent early 2017



Forward Programme – March 2016

2016	Subgroup: Environmental Health	Subgroup: Highways	Subgroup: Heritage	Subgroup: Flood Risk and Drainage
Mar/Apr		<p style="text-align: center;">Euston</p> <ul style="list-style-type: none"> • Demarcation: Lines and highway boundary considerations • Consent content submissions • RTMP • Guidance note forward plans • Bridges Parapet designs 		
May		<p style="text-align: center;">Warwick</p> <ul style="list-style-type: none"> • Permanent Highway Approvals comments • Highway maintenance agreement • RSA Guidance Note • Demarcation Lines continued • Initial presentation of further guidance notes. 		