



GIS data classes used within the November 2013 Environmental Statement Engineering Maps

Document No.:LWM-HS2-EN-DAT-000-000001

Revision	Author	Checked by	Approved by	Date	Reason for revision
P01	R Brown	M White	M White	22/01/2014	Initial issue

Requirement	Data	
FOI / EIR	EIR	
Document type	Data sheet	
Employer's Acceptance		

Contents

1	List of acronyms	4
2	Introduction	6
2.1	Example notation	6
3	Construction Phase (CT-05)	7
3.1	Depot, station, headhouse or portal building	7
3.2	Tunnel portal	7
3.3	Main construction compound	7
3.4	Satellite construction compound	8
3.5	Temporary material stockpile	8
3.6	Rail alignment formation	9
3.7	Landscape earthworks	9
3.8	Engineering earthworks	9
3.9	Land potentially required during construction	10
3.10	Tunnels external extent.....	10
3.11	Construction traffic route	10
3.12	New, diverted or realigned public right of way (PRoW).....	10
3.13	Stopped-up PRoW	11
3.14	Temporary PRoW diversion / realignment	11
3.15	Temporary highway diversion / realignment.....	11
3.16	Main utility works.....	11
3.17	Chainage	12
3.18	Rail alignment	13
4	Proposed Scheme (CT-06)	14
4.1	Depot, station, headhouse or portal building	14
4.2	Tunnel portal	14
4.3	Electricity substation.....	14
4.4	Land drainage area.....	15
4.5	Ecological mitigation pond.....	15
4.6	Balancing pond	15
4.7	Replacement floodplain storage	16
4.8	Woodland habitat creation.....	16
4.9	Wetland habitat creation	16
4.10	Grassland habitat creation	16

4.11	Landscape mitigation planting (scrub / woodland).....	17
4.12	Grassed areas.....	17
4.13	Sustainable placement.....	17
4.14	Public realm	17
4.15	Engineering earthworks	18
4.16	Landscape earthworks	19
4.17	Rail alignment formation	19
4.18	Returned to suitable development use.....	19
4.19	Watercourse diversion	19
4.20	Ditches – new	19
4.21	Hedgerow habitat creation	20
4.22	Main utility works.....	20
4.23	New, diverted or realigned public right of way (PRoW).....	21
4.24	Stopped-up PRoW	21
4.25	Tunnels external extent.....	22
4.26	Rail alignment	22
4.27	HS2 Access road.....	22
4.28	Noise fence barrier	22
4.29	Chainage	23

1 List of acronyms

AG	Above Ground
BEN	Built Environment
BG	Below Ground
CCCC	Contract
C220	Euston
C221	London Metropolitan
C222	Country South
C223	Country North
C224	West Midlands Metropolitan
C240/C241	Route Wide
CN	Construction
CON	Construction
ENG	Engineering
ENV	Environment
EW	Earthwork
HW	Highway
HYD	Hydrology
INF	Infrastructure
LD	Landscape
Ln	Line
ORI	Originator
Ply	Polygon
Pt	Point
RE	Rail Engineering
SW	Surface Water
TL	Tunnel

TPT	Transport
UT	Utility
UTI	Utility
VB	Viaduct / Bridge

2 Introduction

This document provides a list of GIS data classes which have been used within the engineering maps of the November 2013 London-West Midlands Environmental Statement ("the Environmental Statement"). The two engineering map series produced, *Construction Phase (CT-05)* and *Proposed Scheme (CT-06)*, both form part of Volume 2 of the Environmental Statement.

For each legend item, a description is provided and the corresponding GIS data class is listed. The description is taken directly from the *data dictionary and definitions* section of the relevant map book. In some instances, multiple GIS data classes have been used to depict one legend item.

This information is provided as a tool to assist in navigating and understanding the information in the Environmental Statement but does not modify or replace these documents. Whilst every effort has been made to ensure that the shapefile information exactly replicates the information in the Environmental Statement, no absolute assurance can be given that there are no discrepancies. If there are any discrepancies, the information in the Environmental Statement documents should be relied on as definitive.

All data classes listed here are released by High Speed Two Ltd under the Open Government Licence agreement. Any alterations to this information may result in inaccuracies with maps published by High Speed Two Ltd as part of the Environmental Statement and could result in misleading information. The purpose, and what this shapefile represents, is contained within the shapefile name. Renaming this shapefile will result in the loss of this information. Any conversions of this shapefile to another geospatial data format may result in inaccuracies and therefore could result in misleading information.

Because of licence restrictions, any third-party data shown on the Environmental Statement mapping has not been released. Therefore, these data classes are not listed within this document.

2.1 Example notation

As the line of route is split into five contract areas, not all GIS data classes exist across all contract areas. In order to illustrate this, each GIS data class is given a matrix. For example, the GIS data class ENV_ORI_CCCC_LD_GrassedAreas_Ply_CT06_Formal_ES is only relevant to the London Metropolitan and Country North contract areas, and as a result is given the following matrix:

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	x	✓	x

Therefore, the two GIS data classes which make up the 'Grassed areas' legend item in the Proposed Scheme map series are:

- ENV_MMD_C221_LD_GrassedAreas_Ply_CT06_Formal_ES
- ENV_CSI_C223_LD_GrassedAreas_Ply_CT06_Formal_ES

3 Construction Phase (CT-05)

3.1 Depot, station, headhouse or portal building

Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.

BEN_ORI_CCCC_AG_StationFootprint_Ply_CT05_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✗	✗	✓

BEN_ORI_CCCC_AG_SpaceStorey_Ply_CT05_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✗	✗	✓

INF_ORI_CCCC_TL_Headhouse_Ply_CT05_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✗	✗	✓

INF_ORI_CCCC_TL_Shaft_Ply_CT05_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✗	✗

3.2 Tunnel portal

The footprint of a tunnel portal.

INF_ORI_CCCC_TL_Portal_Ply_CT05_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

3.3 Main construction compound

Main Construction Compounds in which main contractors offices and welfare facilities will be located.

CON_ORI_CCCC_CN_MainConstructionCompounds_Ply_CT05_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

CON_PBR_C240_CN_MainConstructionCompound_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

CON_PBR_C241_CN_MainConstructionCompound_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

3.4 Satellite construction compound

Represents satellite construction compounds which serve local works for major construction elements within a main contract.

CON_ORI_CCCC_CN_SatelliteConstructionCompounds_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

CON_PBR_C240_CN_SatelliteConstructionCompound_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

CON_PBR_C241_CN_SatelliteConstructionCompound_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

3.5 Temporary material stockpile

Represents temporary stockpiling of topsoil, subsoil and other excavated materials to be used for reinstatement purposes, and also stockpile areas for managing movement of excavated materials during construction.

CON_ORI_CCCC_EW_Stockpile_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	✓	✓

CON_ORI_CCCC_EW_TemporaryEarthworksStockpile_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

3.6 Rail alignment formation

The space required to accommodate the railway infrastructure which typically includes the tracks, overhead line equipment, drainage, lineside access paths and cable routes for electrification and communication systems.

HS2_ORI_CCCC_RE_RailAlignmentFormation_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

3.7 Landscape earthworks

Landscape earthworks to provide permanent landscape, visual or acoustic mitigation.

CON_ORI_CCCC_EW_InfrastructureMitigationEarthworks_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

3.8 Engineering earthworks

Engineering (structural) earthworks which include railway slopes and crossings (roads etc.).

CON_ORI_CCCC_EW_BottomOfSlope_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_TopOfSlope_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_Symbols_Rail_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_BottomOfSlope_NonRail_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_TopOfSlope_NonRail_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_Symbols_NonRail_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

3.9 Land potentially required during construction

Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.

CON_ORI_CCCC_CN_ConsolidatedConstructionBoundary_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

3.10 Tunnels external extent

The external excavated extent of each tunnel bore.

INF_ORI_CCCC_TL_TunnelExcavatedExtent_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

3.11 Construction traffic route

Public highways which may be used for HGV construction traffic.

CON_ORI_CCCC_CN_ConstructionTrafficRoute_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

3.12 New, diverted or realigned public right of way (PRoW)

New, realigned or diverted Public Rights of Way (PRoW).

TPT_ORI_CCCC_HW_PublicRightofWayNew_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

3.13 Stopped-up PRow¹

Public rights of way that will be temporarily closed due to the construction of the scheme.

TPT_ORI_CCCC_HW_StoppedUpPublicRightOfWay_Ln_CT05_Formal_ES

3.14 Temporary PRow diversion / realignment

Indicative temporary diversions to public rights of way as a result of construction of the scheme. These will vary depending on construction phase and local conditions.

CON_ORI_CCCC_CN_LocalPedestrianDiversionsTemporary_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	x	✓

3.15 Temporary highway diversion / realignment

Indicative temporary highway diversion layouts during the construction phase.

CON_ORI_CCCC_CN_LocalHighwayDiversionsTemporary_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

3.16 Main utility works

Represents all new major utility installations (included in the hybrid Bill) and also modifications to existing utilities required to construct the scheme. Includes water, electricity, telecommunications and gas.

UTI_ORI_CCCC_UT_ElectricityCablesOH_HVModified_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	✓	✓

UTI_ORI_CCCC_UT_ElectricityTowersOH_HVModified_Ply_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	x	✓	x

UTI_ORI_CCCC_UT_ElectricalHVModified_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	✓	✓

UTI_ORI_CCCC_UT_WaterMainsModified_Ln_CT05_Formal_ES

¹ 'Stopped Up Public Rights of Way' shapefiles have not yet completed their quality assurance checks and have been temporarily excluded from the dataset. Once the checks have been completed the shapefiles will be made available.

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	x	✓

UTI_ORI_CCCC_UT_SewersLargeModified_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	x	✓	✓

UTI_ORI_CCCC_UT_GasModified_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

UTI_ORI_CCCC_UT_FuelModified_Ln_CT05_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	x	✓	✓

3.17 Chainage

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scale chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.

HS2_PBR_C240_RE_HighSpeedRailwaysChainageMarkers_Ln_Formal_ES_CT05

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

3.18 Rail alignment

Longitudinal geometry of the tracks consisting of a series of straights and curves.

HS2_PBR_C240_RE_HighSpeedRailwaysAlignment2DCentreline_Ln_Formal_ES_CT05

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

HS2_PBR_C241_RE_StandardMainLineRailwaysAlignment2DCentreline_Ln_Formal_ES_CT05

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

4 Proposed Scheme (CT-o6)

4.1 Depot, station, headhouse or portal building

Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.

BEN_ORI_CCCC_AG_StationFootprint_Ply_CT06_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✗	✗	✓

BEN_ORI_CCCC_AG_SpaceStorey_Ply_CT06_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✗	✗	✓

INF_ORI_CCCC_TL_Headhouse_Ply_CT06_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✗	✗	✓

INF_ORI_CCCC_TL_Shaft_Ply_CT06_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✗	✗

4.2 Tunnel portal

The footprint of a tunnel portal.

INF_ORI_CCCC_TL_Portal_Ply_CT06_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

4.3 Electricity substation

Includes all auto-transformers and feeder stations.

ENG_ORI_CCCC_RE_ElectricitySubstations_Ply_CT06_Forma1_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✓	✓

4.4 Land drainage area

Provision of land to attenuate or infiltrate overland flows at or beyond the HS2 railway boundaries; for example, where existing land drainage systems are altered by the HS2 works, where the existing landform is reshaped by landscape earthworks or where surface water from third party land is intercepted by the HS2 perimeter drainage system.

HYD_ORI_CCCC_SW_LANDR_AttenuationPondNew_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	x	x

HYD_ORI_CCCC_SW_LANDR_InfiltrationBasinNew_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	x	x

4.5 Ecological mitigation pond

Ponds whose primary function is to provide ecological mitigation. This could be a standalone pond or part of a wider wetland habitat creation plan.

ENV_ORI_CCCC_LD_EcologicalMitigationPond_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	x	✓

4.6 Balancing pond

The proposed location and extent of balancing ponds for drainage attenuation and infiltration. Outer boundary represents the perimeter.

HYD_ORI_CCCC_SW_FACDR_AttenuationPondNew_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	x	x	✓

HYD_ORI_CCCC_SW_HWYDR_AttenuationPondNew_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	x	✓

4.7 Replacement floodplain storage

Provision of storage to replace floodplain occupied by the Proposed Scheme. Equivalent storage is provided for events up to the 1 in 100 (1%) annual probability event with an allowance for climate change.

HYD_ORI_CCCC_SW_HS2DR_AttenuationPondNew_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	✓	✓

HYD_ORI_CCCC_SW_HS2DR_InfiltrationBasinNew_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	x	x

4.8 Woodland habitat creation

Ecological mitigation area to provide new woodland planting, connectivity enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.

ENV_ORI_CCCC_LD_Planting_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

4.9 Wetland habitat creation

Ecological mitigation area to provide new wetland habitat creation, enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.

ENV_ORI_CCCC_LD_PlantingWetlands_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	x

4.10 Grassland habitat creation

Soft landscape design that can include any seeded areas for the purpose of creating grassland except for the engineering earthworks.

ENV_ORI_CCCC_LD_GrasslandHabitatCreation_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	x

ENV_ORI_CCCC_LD_SoftLandscaping_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✗	✓	✓

4.11 Landscape mitigation planting (scrub / woodland)

Screening planting, using woodland, for visual mitigation and landscape integration purposes.

ENV_ORI_CCCC_LD_LandscapeMitigationPlanting_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✓	✓

4.12 Grassed areas

Any other area grassed not included in landscaped earthworks or ecological habitat.

ENV_ORI_CCCC_LD_GrassedAreas_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✗	✓	✗

4.13 Sustainable placement

The on-site placement for disposal of surplus excavated material to avoid causing environmental effects (e.g. transport) that would otherwise be associated with the off-site disposal of that material. "On-site" in this context means within the land required for the purposes of the Proposed Scheme and "off-site" means external land (or landfill site) which is not specifically required for the purposes of the Proposed Scheme.

CON_ORI_CCCC_EW_DepositionExcavatedMaterials_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✗	✗

4.14 Public realm

Specifically provided to show areas to be used for public realm. This layer is mainly associated with station sites and is to be used to indicate general areas for designed soft and hard landscaping.

ENV_ORI_CCCC_LD_PublicRealm_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✗	✗	✓

4.15 Engineering earthworks

Engineering (structural) earthworks which include railway slopes and crossings (roads etc.).

CON_ORI_CCCC_EW_BottomOfSlope_Ln_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_TopOfSlope_Ln_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_Symbols_Rail_Ln_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_Foundations_Rail_Ply_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_BottomOfSlope_NonRail_Ln_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_TopOfSlope_NonRail_Ln_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_Symbols_NonRail_Ln_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

CON_ORI_CCCC_EW_Foundations_NonRail_Ply_CT06_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

4.16 Landscape earthworks

Landscape earthworks to provide permanent landscape, visual or acoustic mitigation.

CON_ORI_CCCC_EW_InfrastructureMitigationEarthworks_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✓	✓

4.17 Rail alignment formation

The space required to accommodate the railway infrastructure which typically includes the tracks, overhead line equipment, drainage, lineside access paths and cable routes for electrification and communication systems.

HS2_ORI_CCCC_RE_RailAlignmentFormation_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

4.18 Returned to suitable development use

Post construction land will be reinstated to enable potential future development.

CON_ORI_CCCC_EW_SuitableDevelopmentUse_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✗	✗	✓

4.19 Watercourse diversion

Includes rivers, streams, ditches and other open channels, diversions to these, together with any new culverts required.

HYD_ORI_CCCC_SW_HS2DR_WatercoursesDiversion_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✗	✓	✓	✓

4.20 Ditches – new

The proposed location and extent of drainage ditches.

HYD_ORI_CCCC_SW_HS2DR_DitchNew_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✓	✓

HYD_ORI_CCCC_SW_HWYDR_DitchNew_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✗	✓	✗	✓

HYD_ORI_CCCC_SW_LANDR_DitchNew_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✗	✓	✗	✓

HYD_ORI_CCCC_SW_FACDR_DitchNew_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✗	✗	✗	✓

4.21 Hedgerow habitat creation

Ecological mitigation to provide new hedgerow planting, connectivity enhancements to existing areas and areas for ecological management. This level does not include screening planting for visual mitigation purposes.

ENV_ORI_CCCC_LD_LandscapeMitigationPlantingHedgerows_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✗	✓	✗

ENV_ORI_CCCC_LD_PlantingHedgerows_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✓	✓	✗	✗

4.22 Main utility works

Represents all new major utility installations (included in the hybrid Bill) and also modifications to existing utilities required to construct the scheme. Includes water, electricity, telecommunications and gas.

UTI_ORI_CCCC_UT_ElectricityCablesOH_HVModified_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✗	✓	✓	✓

UTI_ORI_CCCC_UT_ElectricityTowersOH_HVModified_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
✗	✗	✗	✓	✗

UTI_ORI_CCCC_UT_ElectricalHVModified_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	✓	✓	✓

UTI_ORI_CCCC_UT_WaterMainsModified_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	x	✓

UTI_ORI_CCCC_UT_SewersLargeModified_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	x	✓	✓

UTI_ORI_CCCC_UT_GasModified_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

UTI_ORI_CCCC_UT_FuelModified_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	x	x	✓	✓

4.23 New, diverted or realigned public right of way (PRoW)

New, realigned or diverted Public Rights of Way (PRoW).

TPT_ORI_CCCC_HW_PublicRightofWayNew_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

4.24 Stopped-up PRoW²

Public rights of way that will be permanently closed due to the construction of the scheme.

TPT_ORI_CCCC_HW_StoppedUpPublicRightOfWay_Ln_CTo6_Formal_ES

² 'Stopped Up Public Rights of Way' shapefiles have not yet completed their quality assurance checks and have been temporarily excluded from the dataset. Once the checks have been completed the shapefiles will be made available.

4.25 Tunnels external extent

The external excavated extent of each tunnel bore.

INF_ORI_CCCC_TL_TunnelExcavatedExtent_Ply_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

4.26 Rail alignment

Longitudinal geometry of the tracks consisting of a series of straights and curves.

HS2_PBR_C240_RE_HighSpeedRailwaysAlignment2DCentreline_Ln_Formal_ES_CTo6

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

HS2_PBR_C241_RE_StandardMainLineRailwaysAlignment2DCentreline_Ln_Formal_ES_CTo6

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓

4.27 HS2 Access road

Access road to HS2 infrastructure such as electricity substations, balancing ponds and maintenance access points to the railway.

TPT_ORI_CCCC_HW_AccessRoad_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

4.28 Noise fence barrier

Denotes fence-style barriers provided as part of the noise mitigation measures. Note that other noise barriers have also been included in the form of landscaping and engineering cuttings - see the SV map series for more detail on noise mitigation.

BEN_ORI_CCCC_AG_NoiseBarriers_Ln_CTo6_Formal_ES

Euston	London Met.	Country South	Country North	West Mids Met.
x	✓	✓	✓	✓

4.29 Chainage

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 77+000 refers to the point, 77,000m, or 77km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scale chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.

HS2_PBR_C240_RE_HighSpeedRailwaysChainageMarkers_Ln_Formal_ES_CT06

Euston	London Met.	Country South	Country North	West Mids Met.
✓	✓	✓	✓	✓