

A303 Sparkford to Ilchester Dualling Scheme TR010036

6.8 Environmental Statement: Addendum Appendix A

Planning Act 2008
February 2019

Volume 6.8



Infrastructure Planning

Planning Act 2008

**A303 Sparkford to Ilchester Dualling
Scheme**

Development Consent Order 201[X]

Environmental Statement: Addendum

Regulation Number:	
Planning Inspectorate Scheme Reference	TR010036
Application Document Reference	6.8
Author:	A303 Sparkford to Ilchester Dualling Scheme: Project Team, Highways England

Version	Date	Status of Version
Rev A	February 2019	Submission to the Planning Inspectorate

Contents

A1.	Cultural Heritage Desk Based Assessment Technical Note	1
A2.	Visual Baseline and Impact Schedules Technical Note	18
A3.	Arboricultural Constraints Report	20
A4.	Arboricultural Impact Assessment Technical Note	27
A5.	Hedgerow Technical Report Technical Note	35
A6.	Bat Technical Report Technical Note	38
A7.	Reptile Technical Report Technical Note	41
A8.	Agriculture Impact Assessment Baseline Report Technical Note	43
A9.	People and communities supplementary information Technical Note	47

A1. Cultural Heritage Desk Based Assessment Technical Note

- 1.1.1 The proposed changes in the scheme design have resulted in new cultural heritage receptors being within the updated study area. This appendix contains updates of the tables included in Appendix 6.1 of Volume 6.3 of the 2018 ES (APP-067) to include those new receptors.

Gazetteer of all amended heritage assets

- 1.1.2 In reference to Table A.1 of Appendix 6.1 of the 2018 ES (APP-067), Table A1.1 provides a list of all amended designated heritage assets. Table A1.2 provides a list of non-designated assets.

Table A1.1: NHLE data: Designated heritage assets

MM no.	NHLE no.	Name	Description	Grade	NGR	Distance from scheme (metres)
MM01	1039625	Eyewell House	A detached house dating to 1924-1925 of local lias stone with a plain clay tile roof that is now held by the Ministry of Defence.	II	ST 58741 25296	200
MM02	1039624	The Eyewell	A medieval well cistern in a roadside bank. It is formed of a local lias stone enclosure with a slab lib and was likely a focal point for the old village of Queen Camel that was mostly destroyed by a fire in 1639.	II	ST 58869 24969	40
MM03	1248857	Dairy House	A 17 th century detached farmhouse with subsequent 20 th century modifications, including porch. It was built using local lias stone with a double Roman clay tile roof.	II	ST 58753 24931	140
MM18	1248858	The Blackwell	A medieval well cistern on the river bank, consisting of a lias stone enclosure. It probably formed a focal point of the old village of Queen Camel which was largely destroyed by a fire in 1639.	II	ST 58988 24952	100

Table A1.2: NHLE data: Non-designated heritage assets

MM no.	HER no.	Name	Description	NGR	Distance from scheme (metres)
MM046	19738	Parish School, Back Street, Queen Camel	A former parish school, located next to 2 tenements for the parish poor, was replaced by the current school in 1872.	ST 5973 2495	700
MM047	32437	Excavation (2014)	An excavation in 2014 by Wessex Archaeology on West Camel Road, Queen Camel. The results of the excavation are awaited.	ST 5935 2450	500
MM047	32345	Geophysical survey (2013)	A magnetometry survey of 2 fields that revealed possible linear anomalies and evidence of ploughed ridge and furrow and square enclosure.	ST 5930 2460	500
MM047	31898	Evaluation (2012)	A series of evaluation trenches excavated in 2012 on West Camel Road, Queen Camel. The excavations north of the road revealed features relating to a Roman villa, including boundary ditches and a stone wall. All finds were from the Roman period; however, some prehistoric pottery was recovered. Those south of the road revealed 1 medieval linear feature and a second undated one.	ST 5920 2440	500

MM no.	HER no.	Name	Description	NGR	Distance from scheme (metres)
MM047	31922	Geophysical survey (2012)	A fluxgate gradiometer survey in 2012 identified features associated with the Roman villa, including enclosure ditches and linear features overlain with ridge and furrow.	ST 5920 2440	500
MM047	31920	Geophysical survey (2012)	A fluxgate gradiometer survey identified features related to the Roman villa overlain with ridge and furrow.	ST 5920 2460	500
MM047	28372	Excavation (2009), Queen Camel	An excavation at the site of a Roman villa in 2009 that uncovered the corridor-type villa including bi-partite room, hypocaust, and detached bath house.	ST 5927 2456	500
MM047	22545	Roman villa, Queen Camel	A Roman villa originally discovered by metal detectorists, before being further explored through geophysical survey and evaluation trenches.	ST 5929 2456	500
MM047	28371	Geophysical survey (2009), Queen Camel	A geophysical survey in 2008 was undertaken by English Heritage following metal detector finds in an arable field. The survey identified a large aisled hall style Roman building in a system of angular ditch enclosures.	ST 5920 2450	500
MM048	52363	Ivy Cottage, Grace Martin's Lane, Queen Camel	An 18 th century cottage with extensive reconstruction and refurbishment in the late 20 th century that has been removed from the List of Buildings of Special Architectural and Historic Interest.	ST 5976 2498	900
MM149	54428	Church of St Barabas and churchyard, Queen Camel	A medieval graveyard and 14 th century church.	ST 5973 2495	900
MM049	52353	Robinson's Antiques, High Street, Queen Camel	An early 19 th century cottage and show with matching 20 th century additions that has been removed from the Somerset Historic Environment Record.	ST 5956 2488	650
MM053	18506	Medieval Occupation, High Street, Queen Camel	A site of medieval occupation reported via verbal communication.	ST 5965 2471	700
MM053	18505	Watching Brief (2005) High Street, Queen Camel.	A watching brief of foundation excavation and service trenches identified pits containing medieval material, and potential former cottages along the High Street suggesting an area of late medieval southern expansion of a medieval settlement.	ST 5965 2471	700

MM no.	HER no.	Name	Description	NGR	Distance from scheme (metres)
MM053	16962	Evaluation (2004) land to rear of Saddler's Cottage, High Street, Queen Camel	A single evaluation trench in the rear garden of Saddler's Cottage yielded 13 th / 14 th and 18 th century features as well as ceramics, metal and other objects dating to these periods.	ST 5966 1270	700
MM054	54443	Pound, Queen Camel	A pound marked on a historic village map.	ST 5977 2494	900
MM047	31921	Geophysical survey (2012)	A fluxgate gradiometer survey identified a series of parallel linear anomalies that indicate ploughed ridge and furrow, 2 other linear features and a pit that may contain burnt material.	ST 5940 2430	980
MM057	57192	Evaluation (2000), Church Path, West Camel	Two evaluation trenches were excavated in the medieval village of West Camel and yielded a medieval ditch, gully, stake hole and pit feature.	ST 5797 2461	1000
MM059	55874	Medieval village, West Camel	The medieval village of West Camel was mentioned in Domesday Book and has 2 main elements: the nucleus of medieval occupation around the church and the road running west from this.	ST 5770 2470	1100
MM060	54638	Higher flour mill, Queen Camel	Remains of a mill have been incorporated into a garden and covered in ivy with the leat and stream visible either side.	ST 5795 2472	950
MM150	54633	Church of All Saints and churchyard, West Camel	A graveyard and 14 th century church in use since the medieval period.	ST 58022461	850
MM062	24643	Turnpike Road Sparkford Hill, Sparkford, to Marston Inn, Marston Magna	A turnpike road of the Ilchester Trust.	ST 5954 2399	620
MM064	54439	Mill, Queen Camel	A watermill marked on a historic Greenwood's map.	ST 5977 2505	50
MM076	54440	Black well, Black Well Lane, Queen Camel	A well marked on Ordinance Survey map.	ST 5899 2495	100

MM no.	HER no.	Name	Description	NGR	Distance from scheme (metres)
MM077	54438	Mill, West of Queen Camel	A watermill marked on a historic Greenwood's map.	ST 5900 2480	50
MM087	26103	Watching Brief (2007), Churchyard of St Barnabas, Queen Camel	A watching brief of a narrow trench across the northern part of the graveyard identified nothing of archaeological significance.	ST 5973 2498	800
MM093	54437	Village cross site, Hazlegrove	A village cross in the centre of the village, shown in map in Somerset Record Office.	ST 5960 2680	650

Gazetteer of all additional heritage assets

- 1.1.3 In reference to Table A.2 of Appendix 6.1 of the 2018 ES (APP-067), Table A1.3 provides a list of all additional heritage assets that now fall within the proposed revised study area that were not previously listed.

Table A1.3: NHLE data: Non-designated heritage assets

MM no.	HER no.	Name	Description	NGR	Distance from scheme (meters)
MM273	32699	Rectory Farm barn, Queen Camel	Barn originally belonged to Cleeve Abbey. Dates from the mid 15th century and retained its original cruck-framed roof until conversion to cottages. Converted to residential use c.1980.	ST 595 244	830
MM274	52354	Wales Farmhouse, Church Path (North side), Wales	Detached farmhouse. 17th century and later. Local lias stone cut and squared, Ham stone dressings; thatched roof between coped gables; brick end chimney stacks. Barn. Probably C18. Local lias stone cut and squared; double Roman clay tile roof between coped gables, with gabled finial to west end.	ST 584 246	480
MM275	52356	Row of cottages, about 10m north-east of Wales Farmhouse, Church Path (North side), Wales	Row of cottages, originally 3, currently 2. C15 and later. Local lias stone cut and squared. Thatched roof coped on west gable, plain to east; brick chimney stacks.	ST 584 246	480
MM276	N/A	Eyewell Farm	A farmhouse and associated buildings associated with the 17 th century with 20 th century modifications. The rural and agricultural setting of the assets contribute to the value of the heritage assets, with views across the surrounding fields from the property.	ST 587 249	140
MM277	N/A	Stone barn fronting road, Wales Dairy	A 17 th century barn associated with a detached farmhouse. It was built using local lias stone with a double Roman clay tile roof. The rural and agricultural setting of the assets contribute to the value of the heritage assets, with views across the surrounding fields from the property.	ST 587 249	140

Heritage assets scoped in / out for the assessment

- 1.1.4 In reference to Table B.1 of Appendix 6.1 of the 2018 ES (APP-067), Table A1.4 provides an updated list of all heritage assets that have been scoped in or out of the assessment.

Table A1.4 Heritage assets scoped in / out for the cultural heritage assessment

Group no.	Group name	MM no.	NHLE / HER no.	Name	Grade	Scoped (in / out)	Reasoning
GR01	Eyewell Group	MM01	1039625	Eyewell House	II	In	The asset is a detached house dating to 1924-1925 of local lias stone that is now held by the Ministry of Defence. There is the potential for a negative impact on the setting of these assets due to the proximity to the scheme.
		MM01	1258875	Range of outbuildings attached to north of Eyewell House	II		The asset is a series of outbuildings dating to 1924-1925 associated with Eyewell House. There is the potential for a negative impact on the setting of these assets due to the proximity to the scheme.
		MM01	1258884	East boundary wall and gateway about 15 metres east of Eyewell House	II		The asset is a boundary wall to the east of Eyewall House dating to 1924-1925. There is the potential for a negative impact on the setting of these assets due to the proximity to the scheme.
N/A	N/A	MM02	1039624	The Eyewell	II	In	The asset is a medieval well cistern in a roadside bank. It is formed of a local lias stone enclosure with a slab lib and was likely a focal point for the old village of Queen Camel that was mostly destroyed by a fire in 1639. The distance from the scheme and the immediate setting suggests there will be a negative impact on the setting of the heritage asset.
N/A	N/A	MM03	1248857	Dairy House	II	In	The asset is a 17 th century detached farmhouse with subsequent 20 th century modifications, including porch. It was built using local lias stone with a double Roman clay tile roof. The distance from the scheme suggests there will be a negative impact on the setting of the heritage asset.
N/A	N/A	MM18	1248858	The Blackwell	II	In	The asset is a medieval well cistern on the river bank, consisting of a lias stone enclosure. It probably formed a focal point of the old village of Queen Camel which was largely destroyed by a fire in 1639. The distance from the scheme suggests there will be a negative impact on the setting of the heritage asset.

Group no.	Group name	MM no.	NHLE / HER no.	Name	Grade	Scoped (in / out)	Reasoning
GR07	Queen Camel Conservation Area Group	MM46	19738	Parish School, Back Street, Queen Camel	N/A	In	The asset is a former parish school, located next to 2 tenements for the parish poor, and was replaced by the current one in 1872. This asset lies within the Queen Camel Conservation Area (MM40) and will therefore be grouped and assessed as part of this asset.
N/A	N/A	MM273	32699	Rectory Farm barn, Queen Camel	N/A	Out	Barn originally belonged to Cleeve Abbey. Dates from the mid 15th century and retained its original cruck-framed roof until conversion to cottages. Converted to residential use c.1980. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM047	32437	Excavation (2014)	N/A	Out	An excavation in 2014 by Wessex Archaeology on West Camel Road, Queen Camel. The results of the excavation are awaited. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM047	32345	Geophysical survey (2013)	N/A	Out	A magnetometry survey of two fields that revealed possible linear anomalies and evidence of ploughed ridge and furrow and square enclosure. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM047	31898	Evaluation (2012)	N/A	Out	A series of evaluation trenches excavated in 2012 on West Camel Road, Queen Camel. The excavations north of the road revealed features relating to a Roman villa, including boundary ditches and a stone wall. All finds were from the Roman period; however, some prehistoric pottery was recovered. Those south of the road revealed 1 medieval linear feature and a second undated one. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM047	31922	Geophysical survey (2012)	N/A	Out	A fluxgate gradiometer survey in 2012 identified features associated with the Roman villa, including enclosure ditches and linear features overlain with ridge and furrow. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM047	31920	Geophysical survey (2012)	N/A	Out	A fluxgate gradiometer survey identified features related to the Roman villa overlain with ridge and furrow. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM047	28372	Excavation (2009), Queen Camel	N/A	Out	An excavation at the site of a Roman villa in 2009 that uncovered the corridor-type villa including bi-partite room, hypocaust, and detached bath house. The asset is considered too far from the scheme to be impacted.

Group no.	Group name	MM no.	NHLE / HER no.	Name	Grade	Scoped (in / out)	Reasoning
N/A	N/A	MM047	22545	Roman villa, Queen Camel	N/A	Out	A Roman villa originally discovered by metal detectorists, before being further explored through geophysical survey and evaluation trenches. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM047	28371	Geophysical survey (2009), Queen Camel	N/A	Out	A geophysical survey in 2008 was undertaken by English Heritage following metal detector finds in an arable field. The survey identified a large aisled hall style Roman building in a system of angular ditch enclosures. The asset is considered too far from the scheme to be impacted.
GR07	Queen Camel Conservation Area Group	MM048	52363	Ivy Cottage, Grace Martin's Lane, Queen Camel	N/A	In	This asset is an 18th century cottage with extensive reconstruction and refurbishment in the late 20th century that was removed from the List of Buildings of Special Architectural and Historic Interest. This asset lies within the Queen Camel Conservation Area (MM40) and will therefore be grouped and assessed as part of this asset.
GR07	Queen Camel Conservation Area Group	MM149	54428	Church of St Barabas and churchyard, Queen Camel	N/A	In	The asset is the medieval graveyard and 14 th century church. The asset lies within the Queen Camel (MM40) Conservation Area and will be considered as part of the assessment for MM40.
GR07	Queen Camel Conservation Area Group	MM049	52353	Robinson's Antiques, High Street, Queen Camel	DELISTED	In	The asset is an early 19th century cottage and show with matching 20th century additions that has been removed from the Somerset Historic Environment Record, however it is still considered to have local heritage value. This asset lies within the Queen Camel Conservation Area (MM40) and will therefore be grouped and assessed as part of this asset.
GR07	Queen Camel Conservation Area Group	MM053	18506	Medieval Occupation, High Street, Queen Camel	N/A	In	The asset is a site of medieval occupation reported via verbal communication, and subsequently investigated during a watching brief and archaeological evaluation, yielding physical evidence. This asset lies within the Queen Camel Conservation Area (MM40) and will be considered as part of the assessment for MM40.
N/A	N/A	MM053	18505	Watching Brief (2005) High Street,	N/A	Out	A watching brief of foundation excavation and service trenches identified pits containing medieval material, and potential former cottages along the High Street suggesting an area of late medieval

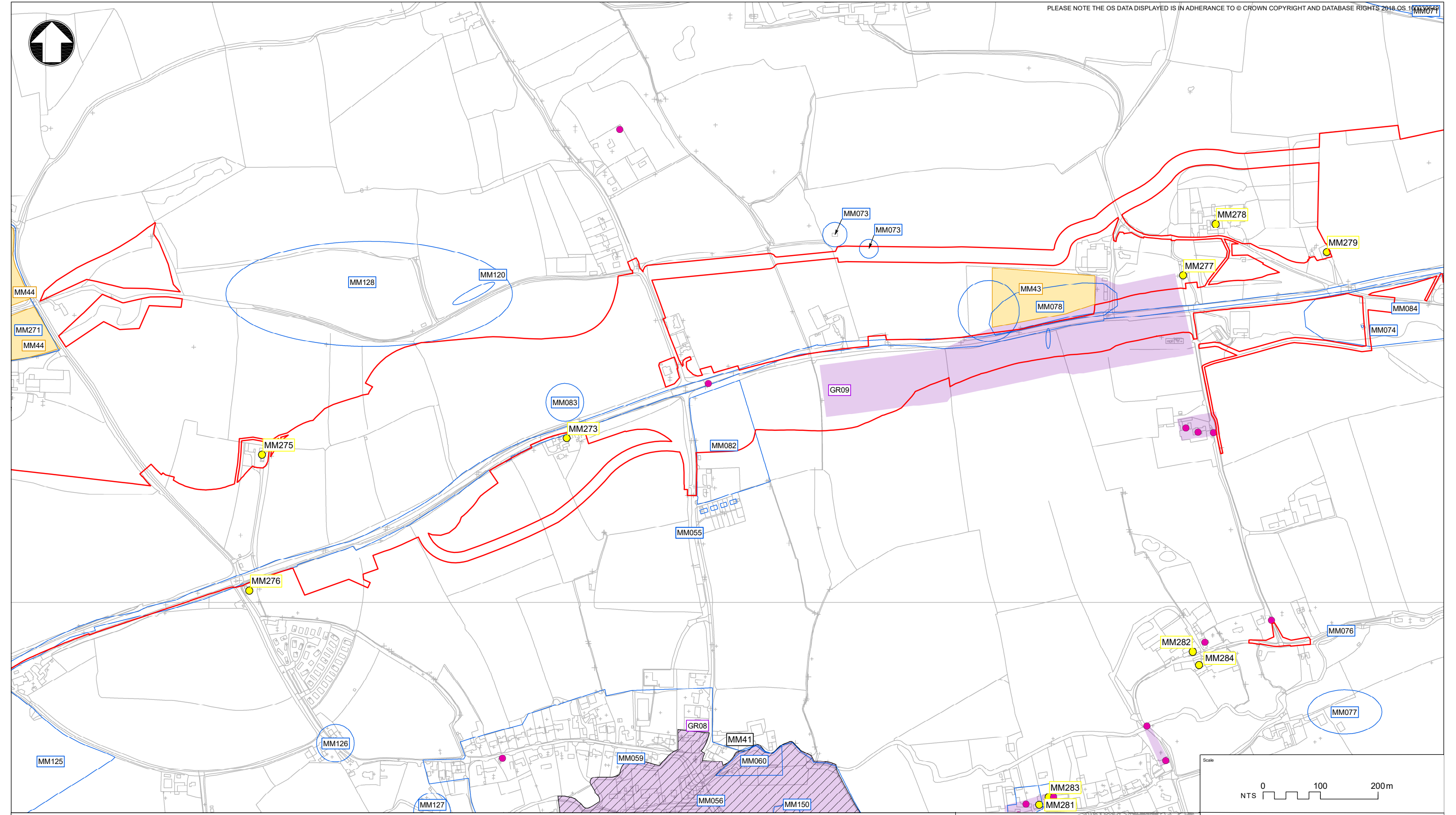
Group no.	Group name	MM no.	NHLE / HER no.	Name	Grade	Scoped (in / out)	Reasoning
				Queen Camel.			southern expansion of a medieval settlement. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM053	16962	Evaluation (2004) land to rear of Saddler's Cottage, High Street, Queen Camel	N/A	Out	A single evaluation trench in the rear garden of Saddler's Cottage yielded 13 th /14 th and 18 th century features as well as ceramics, metal and other objects dating to these periods. The asset is considered too far from the scheme to be impacted.
GR07	Queen Camel Conservation Area Group	MM054	54443	Pound, Queen Camel	N/A	In	The asset is a pound marked on a historic village map. However, this asset lies too far from the scheme to be impacted. Additionally, it lies within the Queen Camel Conservation Area (MM40) and will be considered as part of the assessment for MM40.
N/A	N/A	MM274	52354	Wales Farmhouse, Church Path (North side), Wales	N/A	Out	Barn originally belonged to Cleeve Abbey. Dates from the mid 15th century and retained its original cruck-framed roof until conversion to cottages. Converted to residential use c.1980. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM275	52356	Row of cottages, about 10m north-east of Wales Farmhouse, Church Path (North side), Wales	N/A	Out	Detached farmhouse. C17 and later. Local lias stone cut and squared, Ham stone dressings; thatched roof between coped gables; brick end chimney stacks. Barn. Probably C18. Local lias stone cut and squared; double Roman clay tile roof between coped gables, with gabled finial to west end. The asset is considered too far from the scheme to be impacted.
GR08	West Camel Conservation Area	MM057	57192	Evaluation (2000), Church Path, West Camel	N/A	In	Row of cottages, originally 3, currently 2. C15 and later. Local lias stone cut and squared. Thatched roof coped on west gable, plain to east; brick chimney stacks. This asset encompasses the current West Camel Conservation Area (MM41) and includes several archaeological assets.

Group no.	Group name	MM no.	NHLE / HER no.	Name	Grade	Scoped (in / out)	Reasoning
GR08	West Camel Conservation Area	MM059	55874	Medieval village, West Camel	N/A	In	The asset is the medieval village of West Camel was mentioned in Domesday Book and has two main elements: the nucleus of medieval occupation around the church and the road running west from this. This asset encompasses the current West Camel Conservation Area (MM41) and includes several archaeological assets.
GR08	West Camel Conservation Area	MM060	54638	Higher flour mill, Queen Camel	N/A	In	This asset is formed of the remains of a mill have been incorporated into a garden and survive covered in ivy with the leat and stream visible either side. This asset lies within the West Camel Conservation Area (MM41) and will be considered as part of the assessment for MM41.
GR07	Queen Camel Conservation Area Group	MM150	54633	Church of All Saints and churchyard, West Camel	N/A	In	The asset is a graveyard and 14 th century church in use since the medieval period. The asset lies within the Queen Camel conservation area (MM40) and will be considered as part of the assessment for MM40.
N/A	N/A	MM047	31921	Geophysical survey (2012)	N/A	Out	A fluxgate gradiometer survey identified a series of parallel linear anomalies that indicate ploughed ridge and furrow, 2 other linear features and a pit that may contain burnt material. The asset is considered too far from the scheme to be impacted.
N/A	N/A	MM062	24643	Turnpike Road Sparkford Hill, Sparkford, to Marston Inn, Marston Magna	N/A	Out	A turnpike road of the Ilchester Trust. The asset is considered too far from the scheme to be impacted.
GR07	Queen Camel Conservation Area Group	MM064	54439	Mill, Queen Camel	N/A	In	This asset is a watermill marked on a historic Greenwood's map. The asset lies within the Queen Camel Conservation Area (MM40) and will be considered as part of the assessment for MM40.
N/A	N/A	MM076	54440	Black well, Black Well Lane,	II	In	This asset is a medieval well cistern on the river bank, consisting of a lias stone enclosure. It probably formed a focal point of the old village of Queen Camel which was largely destroyed by a fire in 1639. The

Group no.	Group name	MM no.	NHLE / HER no.	Name	Grade	Scoped (in / out)	Reasoning
				Queen Camel			distance from the scheme suggests there will be a negative impact on the setting of the heritage asset.
N/A	N/A	MM077	54438	Mill, W of Queen Camel	II	In	Buried archaeological water mill. There is the potential for a negative impact on the asset.
N/A	N/A	MM087	26103	Watching Brief (2007), Churchyard of St Barnabas, Queen Camel	N/A	Out	A watching brief of a narrow trench across the northern part of the graveyard identified nothing of archaeological significance. The asset is considered too far from the scheme to be impacted.
GR07	Queen Camel Conservation Area Group	MM093	54437	Village cross site, Hazlegrove	N/A	In	A village cross in the centre of the village, shown in map in Somerset Record Office. The asset lies within the Queen Camel Conservation Area (MM40) and will be considered as part of the assessment for MM40.
N/A	N/A	MM276	N/A	Eyewell Farm	N/A	In	A farmhouse and associated buildings associated with the 17 th century with 20 th century modifications. The rural and agricultural setting of the assets contribute to the value of the heritage assets, with views across the surrounding fields from the property.
N/A	N/A	MM277	N/A	Stone barn fronting road, Wales Dairy	N/A	In	A 17 th century barn associated with a detached farmhouse. It was built using local lias stone with a double Roman clay tile roof. The rural and agricultural setting of the assets contribute to the value of the heritage assets, with views across the surrounding fields from the property.

Heritage Data Set Asset Records

- 1.1.5 In reference to Appendix C of Appendix 6.1 of Volume 6.3 of the 2018 ES (APP-067), the figures below are the updated versions of the Heritage Data Set Asset Records of the 2018 ES (APP-067). The updates include the addition of receptors newly identified to be within the updated study area.



KEY

- PROPOSED RED LINE BOUNDARY
- LISTED BUILDINGS
- REGISTERED PARK AND GARDEN
- SOMERSET HISTORIC ENVIRONMENTAL RECORD DATA - ASSET RECORD
- NON-DESIGNATED ASSET
- AREA OF HIGH ARCHAEOLOGICAL POTENTIAL
- CONSERVATION AREA
- SCHEDULED MONUMENT
- ASSET GROUP

LABEL OUTLINE

- AREA OF HIGH ARCHEOLOGICAL POTENTIAL
- ASSET GROUP
- CONSERVATION AREA
- LISTED BUILDING
- NON-DESIGNATED ASSET
- REGISTERED PARK AND GARDEN
- SCHEDULED MONUMENT
- SOMERSET HISTORIC ENVIRONMENTAL RECORD DATA - ASSET RECORD

THIS DOCUMENT IS ISSUED FOR THE PARTY WHICH COMMISSIONED IT AND FOR SPECIFIC PURPOSES CONNECTED WITH THE CAPTIONED PROJECT ONLY. IT SHOULD NOT BE RELIED UPON BY ANY OTHER PARTY OR USED FOR ANY OTHER PURPOSE.
WE ACCEPT NO RESPONSIBILITY FOR THE CONSEQUENCES OF THIS DOCUMENT BEING RELIED UPON BY ANY OTHER PARTY, OR BEING USED FOR ANY OTHER PURPOSE, OR CONTAINING ANY ERROR OR OMISSION WHICH IS DUE TO AN ERROR OR OMISSION IN DATA SUPPLIED TO US BY OTHER PARTIES.

Scale

0 100 200m

NTS

Project Title

A303 SPARKFORD TO ILCHESTER DUALLING

Drawing Title

LOCATION OF IDENTIFIED HERITAGE ASSETS
SHEET 4 OF 8

Drawing Status

PUBLISHED - DEFINITION

Suitability

A3

Scale	NTS	Designed	ER	Drawn	SB	Checked	BM	Approved	ER
Original Size	A1	Date	JUNE 2018	Date	JANUARY 2019	Date	JANUARY 2019	Date	JANUARY 2019

Drawing Number

HE PIN

Originator

MMSJV

Volume

000

Project Ref. No.

389107

Revision

C02

C02	18/01/19	ES ADDENDUM	SB	BM	ER
C01	July 2018	DCO SUBMISSION	ER	JB	ER
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

Location

- DR - LM - 0050

Type

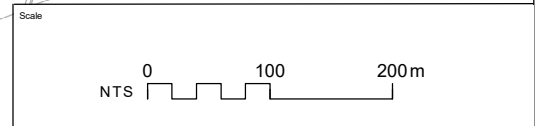
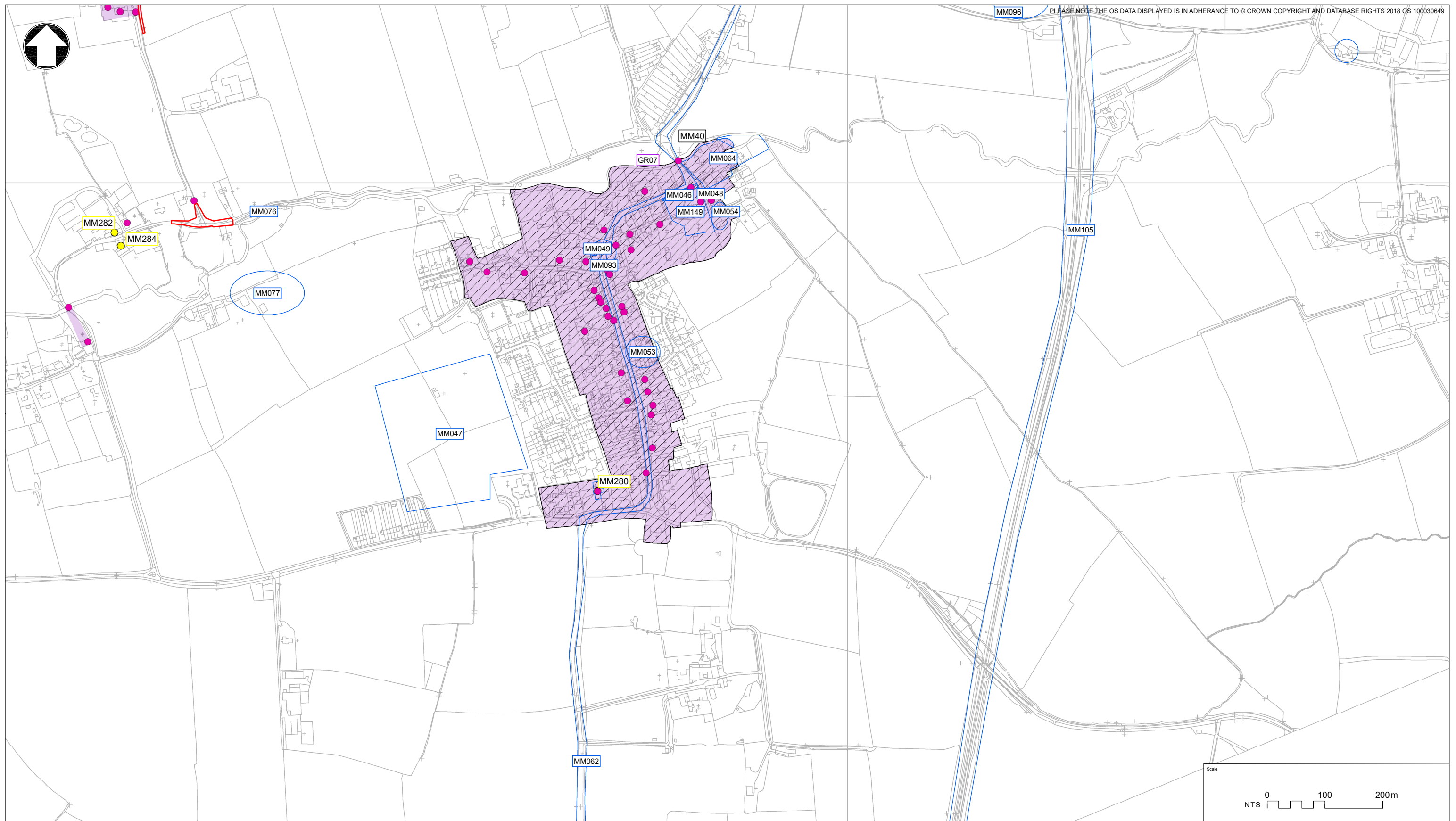
DR

Role

LM

Number

0050



Project Title						A303 SPARKFORD TO ILCHESTER DUALLING	
Drawing Title							
LOCATION OF IDENTIFIED HERITAGE ASSETS							
SHEET 6 OF 8							
Drawing Status						Suitability	
PUBLISHED - DEFINITION						A3	
Scale	Designed	Drawn	Checked	Approved			
NTS	ER	SB	BM	ER			
Original Size	Date	Date	Date	Date			
A1	JUNE 2018	JANUARY 2018	JANUARY 2019	JANUARY 2019			
Drawing Number						Project Ref. No.	
HE PIN Originator Volume						389107	
HE551507 - MMSJV - EHR -						Revision	
000 - DR - LM - 0052						C02	
Location		Type	Role	Number			

A2. Visual Baseline and Impact Schedules Technical Note

- 2.1.1 The proposed changes to the scheme design have resulted in 1 additional visual receptor being identified in addition to those listed in Appendix 7.4 of Volume 6.3 of the 2018 ES (APP-072). The Landscape and Visual Impact Assessment (LVIA) Visual Baseline and Impact Schedules entry for this receptor is contained in Table A2.1 below.

Table A2.1 Visual Impact Baseline Schedules

Visual receptor no.	Visual receptor	Existing view	Proposed view during construction	Proposed view during operation	Effects on visual receptors
46	Representative of view from Eye Well Bungalow residential receptor and PRoW WN 23/36 (High sensitivity)	<p>Short distance view from Eye Well Bungalow, looking south, comprises an orchard in the southern extents of the property boundary, fence lines and a low hedgerow along the eastern and western property boundaries. The existing junction of Traits Lane with Blackwell Road is currently perceptible in the view. The background of the view is comprised by field boundary vegetation. The view looking north from PRoW WN 23/36 comprises immediate views of properties adjacent to Traits Lane, including a low boundary hedgerow, a fence line and an orchard in the immediate foreground. Narrow views up Traits Lane are also afforded. Long distance views can be seen over the low hedge on the eastern side of Traits Lane, across arable fields with mature vegetation and Queen Camel Radio Station forming the background of the view in the far distance. In the middle distance of the view boundary hedgerows, several electricity pylons and associated overhead lines traverse the fields. There are no views available of the A303.</p>	<p>It is expected that there would be a noticeable change in the view during construction. This would be due to the proximity of construction activities and plant required for the junction widening, as well as the encroachment into the southern section of the garden of Eye Well Bungalow, which would bring works closer in view looking south from the property. Small lengths of hedgerow and fence lines would also be temporarily removed from the property as part of the widening works. Short distance direct views would be available from the PRoW WN 23/36 to the construction area and associated activities. Given the localised scale and temporary nature of the works, overall it is considered there would be a Moderate Change in the magnitude of impact resulting in a Moderate Adverse effect from this receptor group.</p>	<p>During operation it is predicted that overall there would be a Minor Change to the magnitude of impact in this view in Year 1. This would be due to the new intersection appearing similar in nature, albeit slightly wider and closer than the baseline view given the works would bring the junction slightly closer to Eye Well Bungalow. This would result in a Slight Adverse effect in Year 1 as any replacement planting would have yet to establish, however any boundary fencing would have been fully reinstated. By Year 15, due to the replacement of lost elements along the property's boundaries (fence line and hedgerow) it is predicted that there would be a minor magnitude of change at worst due to the continued foreshortening of the property garden. This would lead to a slight adverse effect at worst.</p>	<p>Construction: Moderate Adverse Operation: Year 1: Slight Adverse Year 15: Slight Adverse</p>

A3. Arboricultural Constraints Report

- 3.1.1 The proposed changes to the scheme design have resulted in additional tree constraints being identified within the proposed update of the red line boundary.
- 3.1.2 The contents of Appendix 7.1 of Volume 6.3 of the 2018 ES (APP-069) remain valid with the exception of the additions described in this Addendum Technical Note, described below.

Tree Summary

Summary of existing tree coverage

- 3.1.3 Additional Category C Trees have been included in the baseline as a result of the proposed changes to the redline boundary. The additions were of 1 individual tree, 1 tree group and 2 hedgerows. The total number of surveyed trees in all categories for the scheme, including the proposed updates to the redline boundary, can be seen in Table A3.1 below.

Table A3.1 Total trees surveyed for the scheme

Tree category	Description	Total number surveyed
Category A	Trees or groups of high quality and value	2 individual trees
Category B	Trees or groups of moderate quality	9 individual trees and 2 tree groups
Category C	Trees or groups of low quality	6 individual trees, 12 areas of woodland, 13 tree groups and 39 hedgerows
Category U	Trees or groups for removal	4 individual trees

Annex 3.1 Tree Survey Schedule

- 3.1.4 The tree schedules within Appendix 7.4 of Volume 6.3 of the 2018 ES (APP-072) will require additional entries as a result of the proposed updates to the redline boundary. The additional entries are set out in Table A3.2 below.

Table A3.2 Tree Survey Schedule

Tag	Tree type	Life stage	Height	Crown spread (m)				Crown height (m)				RPA				Conditions		BS 5837 category				Useful remaining contribution (years)	Comments	
				N	E	S	W	1 st	N	E	S	W	No. of	Stem diameter (m)	RPA	Crown	Stem	Basal	General	Sub-Category				
G15	Orchard and Ornamental	Semi Mature	3	2	2	2	2	1	1	1	1	1	10+	200av	1.8av	10av	Fair	Fair	Fair	Fair	C	1	20>	A group of small apple trees and garden ornamentals.
H38	Native hedge	Semi-mature	2	1	1	1	1	0.1	0	0	0	0	10+	80av	1av	3av	Fair	Fair	Fair	Fair	C	1	20>	Native hedge, predominantly haw thorn and blackthorn with occasional ash, hazel and field maple
H39	Native hedge	Semi-mature	1.5	1	1	1	1	0.1	0	0	0	0	10+	80av	1av	3av	Fair	Fair	Fair	Fair	C	1	20>	Mixed native hedge with haw thorn, hazel, field maple, English elm and occasional larger ash.
21	Sycamore	Semi Mature	7	3	3	3	3	3	2	2	2	2	1	280	3.4	35	Fair	Fair	Fair	Fair	C	1	40+	

Annex 3.2 Root Protection Areas

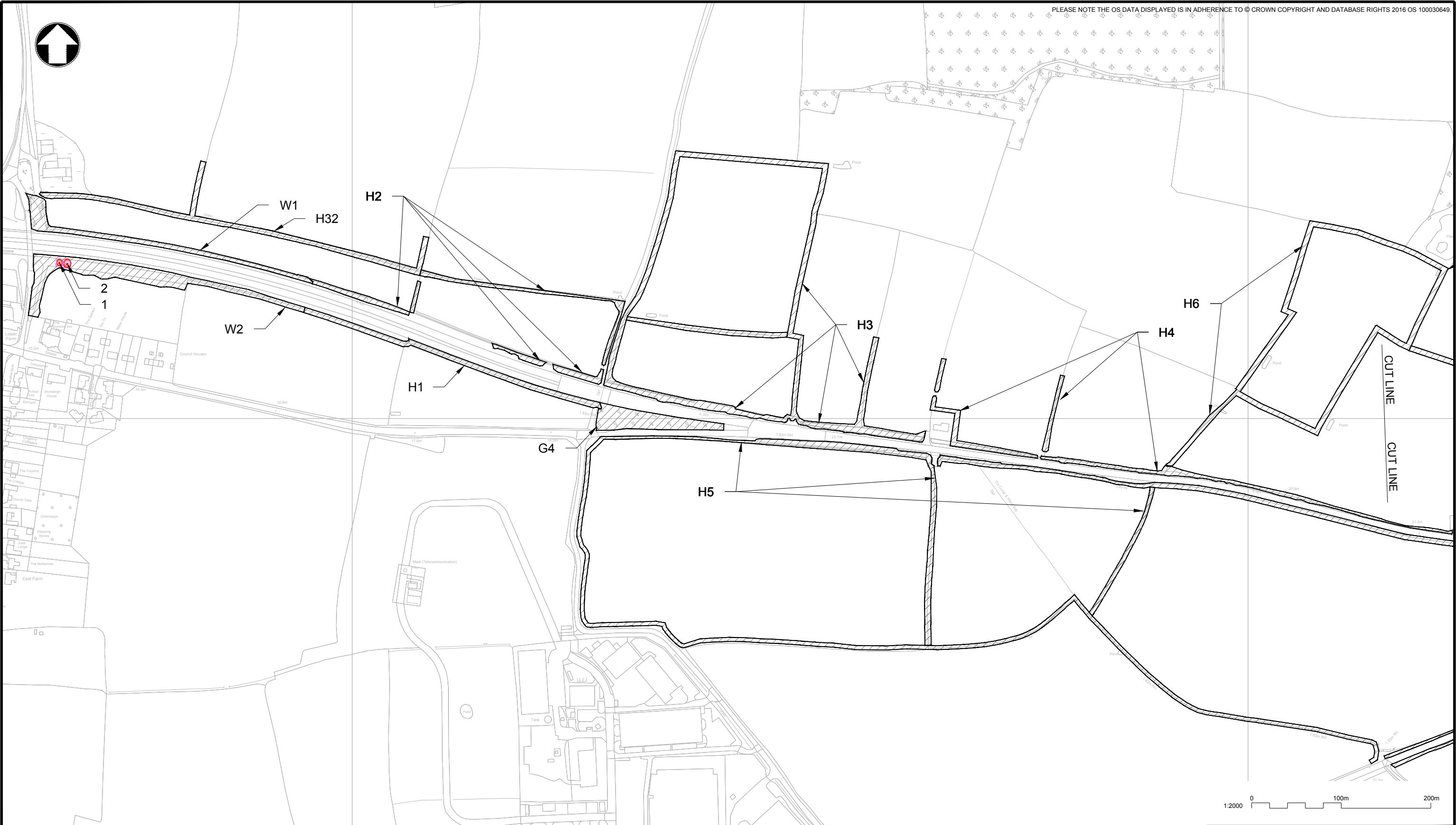
3.1.5 The root protection areas for the additional trees are included in Table A3.3 below.

Table A3.3 Root protection areas

Tree reference	Species	Stem diameter (mm)	RPA circle radius (m)	RPA (m ²)
G15	Mixed			
H38	Native hedge	80av	1av	3av
H39	Native hedge	80av	1av	3av
21	Sycamore	280	3.4	35

Annex 3.3. Drawings

- 3.1.6 The tree constraints plan drawing Sheet 3 has been updated to include the additional trees, as shown below.



KEY:

16 TREE REFERENCE

APPROXIMATE EXTENT OF CANOPY

TREE ROOT PROTECTION AREA (RPA)

INDIVIDUAL TREES

- GRADE A TREES
- GRADE B TREES
- GRADE C TREES
- GRADE U TREES TO BE REMOVED FOR REASONS OF SOUND ARBORICULTURAL MANAGEMENT

TREE GROUPS

- GRADE A TREES
- GRADE B TREES
- GRADE C TREES

NOTE:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- DO NOT SCALE ANY ITEMS OR INFORMATION FROM THIS DRAWING.
- TO BE READ IN CONJUNCTION WITH A303 SPARKFORD TO ILCHESTER ARBORICULTURAL CONSTRAINTS REPORT REF. HE551507-MMSJV-ELS-000-RP-LL-0011.

Project Title
A303 SPARKFORD TO ILCHESTER DUALLING

Drawing Title
TREE CONSTRAINTS PLAN
SHEET 1 OF 4

Drawing Status
Suitable for Stage Approval

Scale
AS SHOWN

Designed
J.COLLETT

Drawn
D.S.LEE

Checked
S.BENNETT

Approved

Original Size
A1

Date
03/03/18

Date
30/01/19

Date
30/01/19

Date

Drawing Number
HE PIN

Originator
HE551507 - MMSJV

Volume
- ELS -

Project Ref. No.
389107

Revision
P05

REV.
DATE

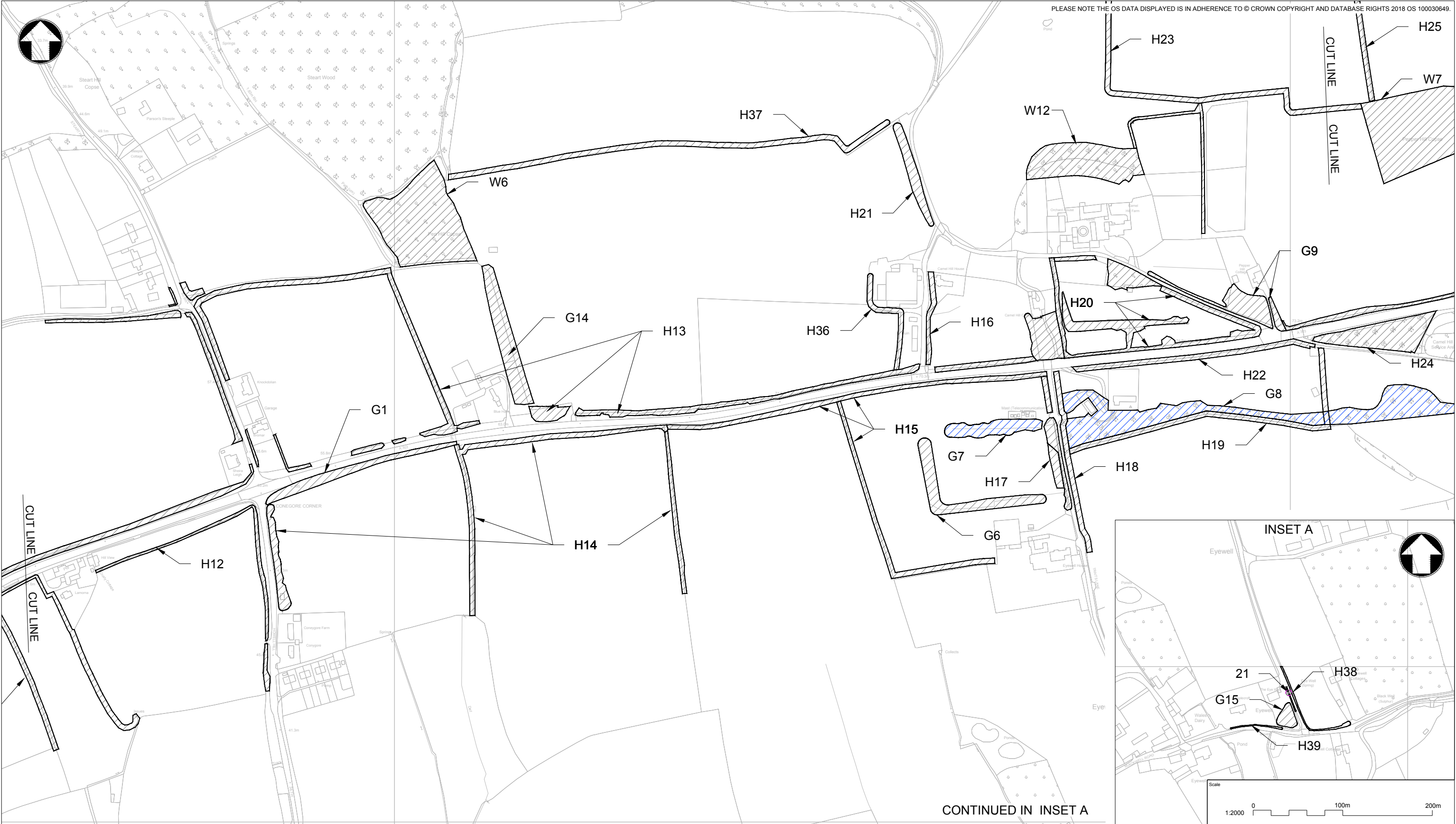
AMENDMENT DETAILS

ORIG
CHK'D

APP'D

THIS DOCUMENT IS ISSUED FOR THE PARTY WHICH COMMISSIONED IT AND FOR SPECIFIC PURPOSES CONNECTED WITH THE CAPTIONED PROJECT ONLY. IT SHOULD NOT BE RELIED UPON BY ANY OTHER PARTY OR USED FOR ANY OTHER PURPOSE.
WE ACCEPT NO RESPONSIBILITY FOR THE CONSEQUENCES OF THIS DOCUMENT BEING RELIED UPON BY ANY OTHER PARTY, OR BEING USED FOR ANY OTHER PURPOSE, OR CONTAINING ANY ERROR OR OMISSION WHICH IS DUE TO AN ERROR OR OMISSION IN DATA SUPPLIED TO US BY OTHER PARTIES.

C:\users\lee24793\docs\16493\ver0005\HE551507-MMSJV-ELS-000-DR-LL-0119.dwg Jan 30, 2019 - 4:23PM lee24793



KEY:

16 TREE REFERENCE

APPROXIMATE EXTENT OF CANOPY

TREE ROOT PROTECTION AREA (RPA)

INDIVIDUAL TREES

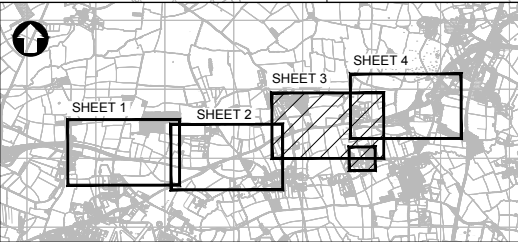
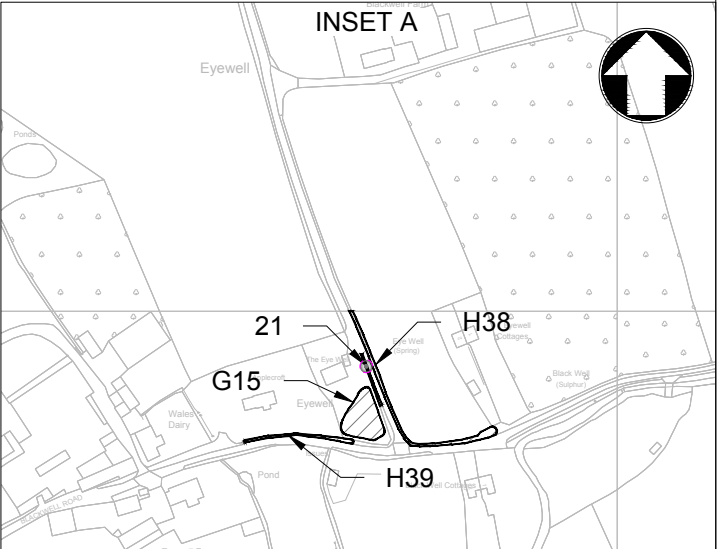
- GRADE A TREES
- GRADE B TREES
- GRADE C TREES
- GRADE U TREES TO BE REMOVED FOR REASONS OF SOUND ARBORICULTURAL MANAGEMENT

TREE GROUPS

- GRADE A TREES
- GRADE B TREES
- GRADE C TREES

THIS DOCUMENT IS ISSUED FOR THE PARTY WHICH COMMISSIONED IT AND FOR SPECIFIC PURPOSES CONNECTED WITH THE CAPTIONED PROJECT ONLY. IT SHOULD NOT BE RELIED UPON BY ANY OTHER PARTY OR USED FOR ANY OTHER PURPOSE. WE ACCEPT NO RESPONSIBILITY FOR THE CONSEQUENCES OF THIS DOCUMENT BEING RELIED UPON BY ANY OTHER PARTY, OR BEING USED FOR ANY OTHER PURPOSE, OR CONTAINING ANY ERROR OR OMISSION WHICH IS DUE TO AN ERROR OR OMISSION IN DATA SUPPLIED TO US BY OTHER PARTIES.

CONTINUED IN INSET A



P02	24/05/18	FIRST ISSUE	DL	RL	ER
P03	19/06/18	G14 ADDED	DL	SB	NE
P04	20/07/18	DESIGN UPDATED	DL	SB	---
P05	23/07/18	DESIGN UPDATED	DL	SB	NE
P06	30/01/19	HEDGES REVISED	DL	SB	---

Scale									
<div>1:2000</div> <div>0100m200m</div>									
Project Title									
A303 SPARKFORD TO ILCHESTER DUALLING									
Drawing Title									
TREE CONSTRAINTS PLAN SHEET 3 OF 4									
Drawing Status								Suitability	
Suitable for Stage Approval								S4	
Scale		Designed		Drawn		Checked		Approved	
AS SHOWN		J.COLLETT		D.S.LEE		S.BENNETT		---	
Original Size		Date		Date		Date		Date	
A1		03/03/18		30/01/19		30/01/19		---	
Drawing Number								Project Ref. No.	
HE PIN		Originator		Volume		389107			
HE551507 - MMSJV - ELS -								Revision	
000		- DR - LL -		0121		P06			
Location		Type		Role		Number			