

M5 Junction 10 Improvements Scheme

Environmental Masterplan – Part 1 TR010063 – APP 2.13

Regulation 5 (2) (o)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 2

November 2024



Gloucestershire
COUNTY COUNCIL

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Infrastructure Planning Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M5 Junction 10 Improvements Scheme Development Consent Order 202[X]

Environmental Masterplan - Part 1

Regulation Number:	Regulation 5(2)(o)
Planning Inspectorate Scheme Reference	TR010063
Application Document Reference	TR010063 – APP 2.13
Author:	M5 Junction 10 Improvements Scheme Project Team

Version	Date	Status of Version
Rev 0	December 2023	DCO Application
Rev 1	July 2024	Deadline 3
Rev 2	September 2024	Deadline 4
Rev 3	November 2024	Deadline 10

1. Schedule of Plans included in this application document.

1.1. List of drawings in Part 1

Document title	Document number	Version
Environmental Key Plan Regulation 5(2)(j)	TR010063 – APP 2.13	C02 C04
Environmental Master Plan Key	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 1 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 2 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 3 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 4 of 16	TR010063 – APP 2.13	C02
Environmental Master Plan – Sheet 5 of 16	TR010063 – APP 2.13	C02 C04
Environmental Master Plan – Sheet 6 of 16	TR010063 – APP 2.13	C02 C04
Environmental Master Plan – Sheet 7 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 8 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 8 of 16	TR010063 – APP 2.13	C02 C04
Environmental Master Plan – Sheet 9 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 10 of 16	TR010063 – APP 2.13	C01

1.2. List of drawings in Part 1

Document title	Document number	Version
Environmental Master Plan – Sheet 11 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 12 of 16	TR010063 – APP 2.13	C03 C02
Environmental Master Plan – Sheet 13 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 14 of 16	TR010063 – APP 2.13	C01
Environmental Master Plan – Sheet 15 of 16	TR010063 – APP 2.13	C03 C02
Environmental Master Plan – Sheet 16 of 16	TR010063 – APP 2.13	C02 C04
Proposed Indicative River Chelt Link Road River Cross-Sections	TR010063 – APP 2.13	C01



NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.

KEY:

- SHEET USED AS PART OF THIS DRAWING SERIES.
- EXISTING ORDNANCE SURVEY DATA
- DEVELOPMENT CONSENT ORDER (DCO) BOUNDARY

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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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A1	C01	YP	YP	YP	YP	02/07/24
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Change Application 2 Amendments Included						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C02	AC	CJ	CDC	LJ	26/11/24
Drawing Suitability						Status
APPROVED - PUBLISHED						A1
Project Title						
M5 Junction 10 Improvements Scheme						
Drawing Title						
ENVIRONMENTAL KEY PLAN						
Drawing Number						
GCCM5J10		ATK		ELS		
ZZ		DR		LL 400115		
Original Size:	A1	Scale:	AS SHOWN	Project Ref. No.:	5228847	Sheet: 1 of 16 Rev: C02

ENVIRONMENT MASTERPLAN KEY

GENERAL

- EXTENT OF HIGHWAY WORKS
- MAINTENANCE BAY

HIGHWAYS

- PROPOSED PUBLIC RIGHT OF WAY
- EXISTING PUBLIC RIGHT OF WAY
- EXISTING PUBLIC RIGHT OF WAY TO BE REMOVED
- PROPOSED REFLECTIVE NOISE BARRIER 2m HIGH
- PROPOSED ABSORPTIVE NOISE BARRIER 2m HIGH
- PROPOSED HIGHWAY FENCE LINE
- PROPOSED OTTER FENCE
- PROPOSED BADGER FENCE
- EXISTING FENCE LINE
- ORDER LIMITS
- PROPOSED LANE MARKINGS
- PROPOSED EARTHWORK SLOPE
- PROPOSED TRAFFIC SIGN AND SIGN POST
- PROPOSED GATE

STRUCTURES

- PROPOSED OVERBRIDGE
- PROPOSED UNDERBRIDGE/CULVERT
- PROPOSED RETAINING WALL

LIGHTING

- PROPOSED LIGHTING COLUMN & LUMINAIRE

DRAINAGE

- PROPOSED POND WITH POND ACCESS TRACK
- PROPOSED DITCHES
- CULVERT

ENVIRONMENTAL ELEMENTS:

ECOLOGY PROTECTION MEASURES

- MAMMAL CROSSINGS (Tunnels)
- BAT HOP-OVER PLANTING
- COMPENSATORY BAT ROOST STRUCTURE

LANDSCAPE KEY :

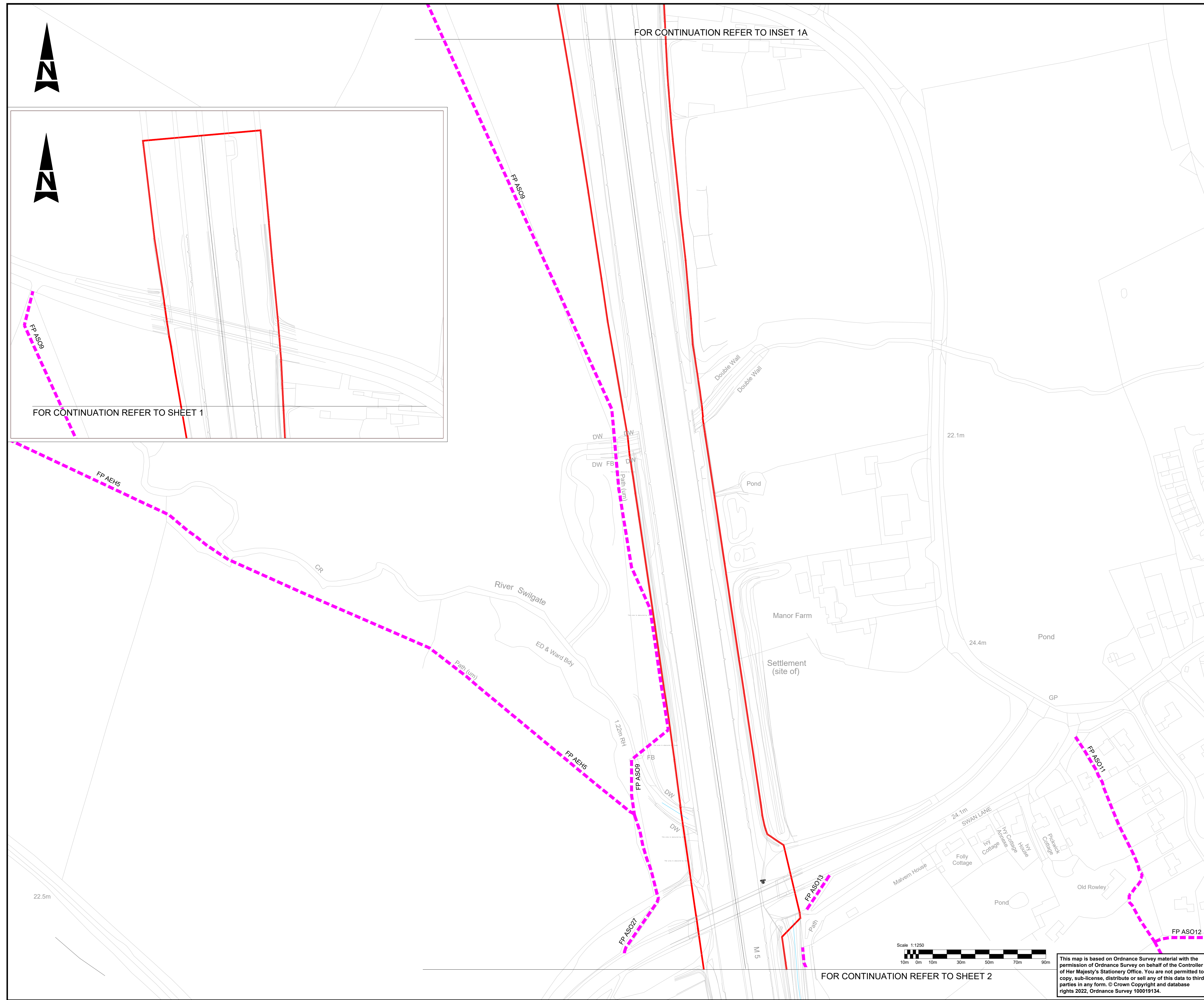
- RETAINED VEGETATION
- EXISTING DWELLING AND GARDEN - TO BE RETAINED
- EXISTING HEDGEROW - TO BE RETAINED
- EXISTING HEDGEROW - TO BE ENHANCED
- LE 1.2: GRASSLAND WITH BULBS
- LE 1.3: SPECIES RICH GRASSLAND
- LE 2.1: WOODLAND
- LE 2.2: WOODLAND EDGE
- LE 2.4: LINEAR BELTS OF SHRUBS AND TREES
- LE 2.5: SHRUBS WITH INTERMITTENT TREES
- LE 2.6: SHRUBS
- LE 2.8: SCRUB
- LE 3.1: AMENITY TREES AND SHRUB PLANTING
- LE 4.2: NATIVE SPECIES HEDGEROWS(Trimmed)
- LE 4.3: NATIVE SPECIES HEDGEROWS(Untrimmed)
- LE 4.4: NATIVE HEDGEROWS WITH TREES
- LE 5.1: INDIVIDUAL TREES
- LE 6.1: WATER BODIES & ASSOCIATED PLANTS
- LE 6.2: BANKS & DITCHES - SOWN WITH WET GRASSLAND
- LE 6.4: WET GRASSLAND WITH MARGINAL PLANTING
- LOWLAND MEADOWS - PRIORITY HABITAT
- ACCESS ROUTES

NOTES:

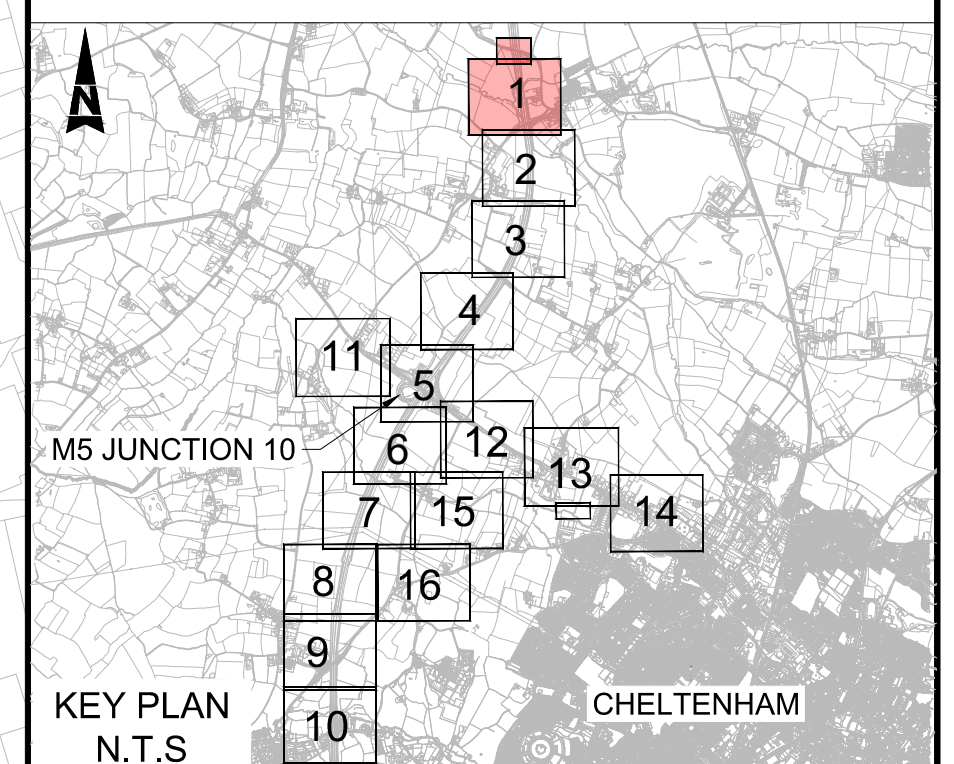
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- PLANT SPECIES WILL BE PROPOSED AT DETAIL DESIGN. SPECIES ARE TO BE NATIVE AND/OR NON-INVASIVE AND SUITABLE FOR THE LOCATIONS. EVERGREEN/ SEMI-EVERGREEN SPECIES TO BE INCLUDED WHERE VISUAL SCREENING IS REQUIRED. NH AND GCC ARE TO BE CONSULTED ON THE FINAL DESIGN/SPECIES CHOICE TO ENSURE THAT THEIR DESIGN STANDARDS, H&S REQUIREMENTS AND MAINTENANCE CAPABILITIES ARE COMPLIED WITH WHERE POSSIBLE SPECIES RICH FLOWERING GRASSLAND IS TO BE USED ACROSS THE SCHEME. LOW GROWING OR THAT WHICH CAN BE CUT REGULARLY CAN BE PROPOSED TO VISIBILITY SPLAYS.
- FINAL OPTIONS FOR THE DESIGN OF THE NOISE BARRIERS SHOULD BE PRESENTED TO DIRECTLY AFFECTED PROPERTIES AND THE LPA TO ENSURE THE BARRIER IS ACCEPTABLE FOR NOISE AND VISUAL AMENITY. OPTIONS SHOULD INCLUDE PLANTING TO THE BARRIERS AND ALTERNATIVE FINISHES.

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
REVISION 0						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1
Project Title						
M5 Junction 10 Improvements Scheme						
Drawing Title						
ENVIRONMENTAL MASTER PLAN KEY						
Drawing Number						
GCCM5J10		ATK	ELS			
ZZ		DR	LL	000116		
Original Size:	A1	Scale:	NTS	Project Ref. No.:	5197035	Sheet: 1 of 1 Rev: C01

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- NOTES:**
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 - BUS STOPS TO CONSIDER HAVING GREEN ROOFS.
 - BADGER FENCE LINE WILL ALSO BE OTTER PROOF.
 - SIGNAGE: SIGHT LINES HAVE BEEN TAKEN INTO CONSIDERATION WITHIN THE LANDSCAPE DESIGN PROPOSAL, TO BE RESOLVED FURTHER IN THE DETAIL DESIGN STAGE.
 - ALLOWANCE HAS BEEN MADE FOR ARTIFICIAL BADGER SETTS WITHIN THE ORDER LIMITS TO REPLACE THOSE LOST. LOCATIONS ARE NOT SHOWN ON THIS PLAN DUE TO THE PERSECUTION FACED BY BADGERS, BUT ARE INCLUDED IN THE DRAFT BADGER LICENCE. ARTIFICIAL SETTS TO INCLUDE APPROPRIATE PLANTING.
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 - ECOLOGICAL ENHANCEMENT. PROPOSED BANK REPROFILING, AQUATIC, MARGINAL AND RIPARIAN PLANTING AND IN-CHANNEL ENHANCEMENTS ALONG WATER COURSE. ADJACENT AREA TO BE 20% COVER WOODLAND.
 - ATTENUATION BASIN TO INCLUDE FEATURES TO ENHANCE BIODIVERSITY SUCH AS SUBMERGED AND MARGINAL PLANTING; VARIATIONS IN BED TOPOGRAPHY; SHALLOW BANK SLOPES TO CREATE DRAWDOWN ZONES; ISLAND FEATURES; AND MARGINAL SHELVES. ADDITIONAL SURROUNDING PLANTING SHOULD ALSO BE INCLUDED TO HELP EMBED THE POND INTO THE LANDSCAPE. USE OF GRASSCRETE OR SIMILAR TO MAINTENANCE TRACK WHERE APPROPRIATE/FEASIBLE.



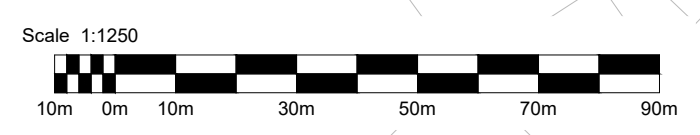
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Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

REVISION 0						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

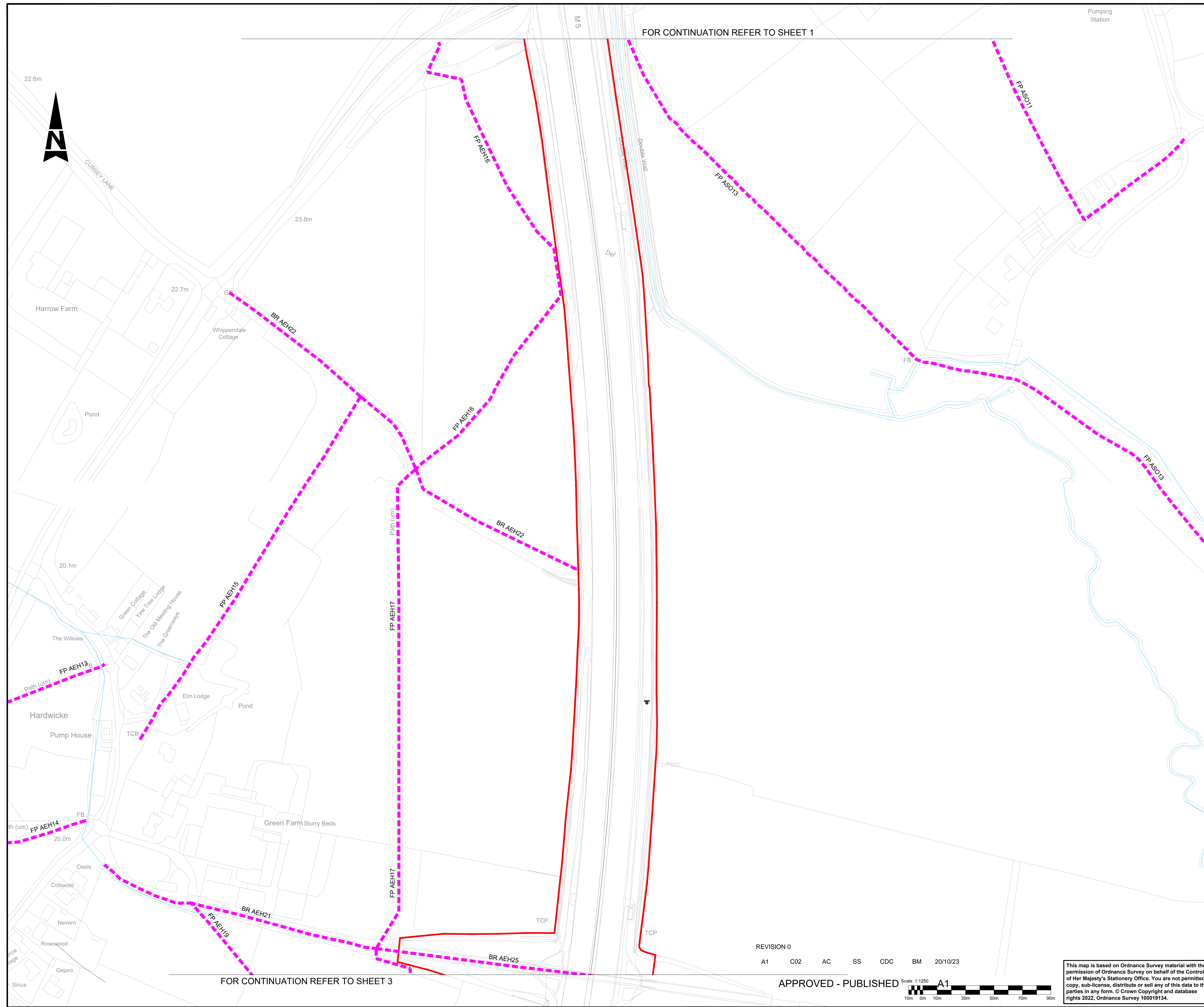
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M5 Junction 10 Improvements Scheme

Drawing Title
ENVIRONMENTAL MASTER PLAN SHEET 01 OF 16

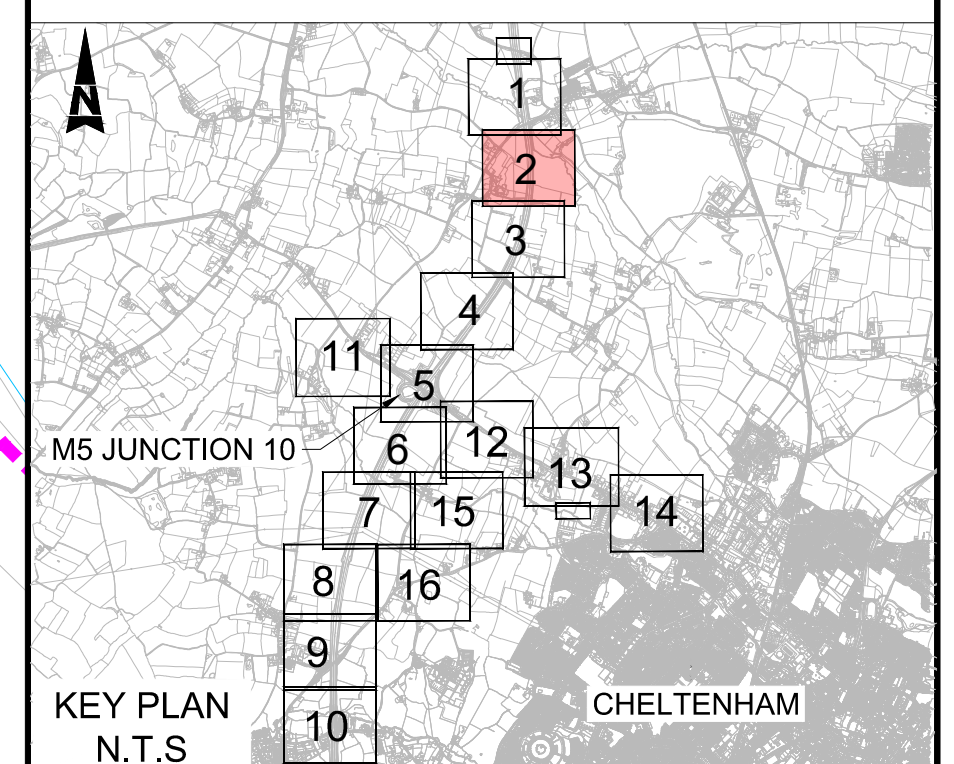
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				Revised		C01	



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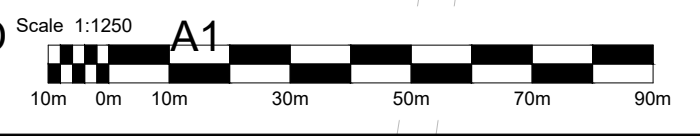


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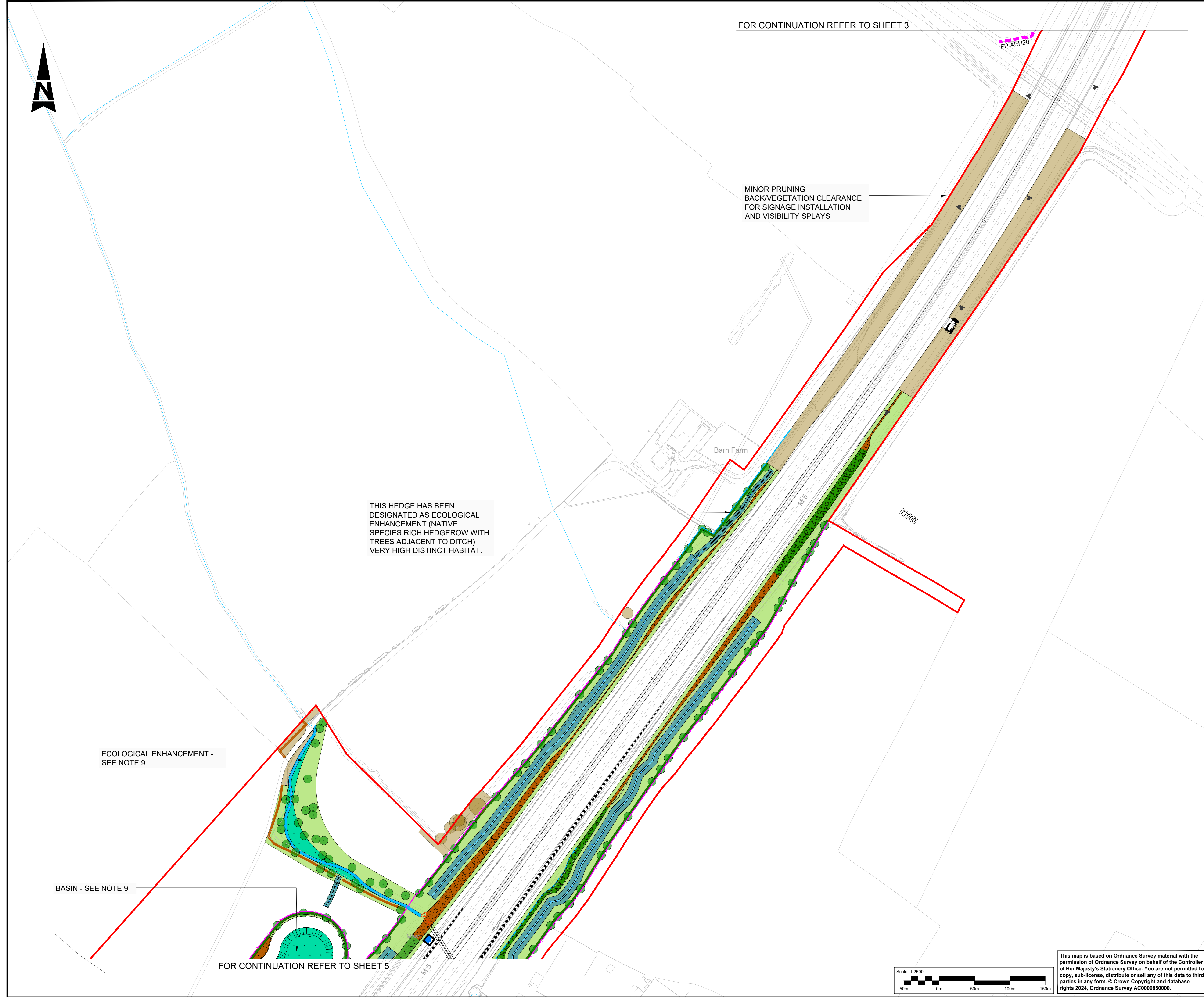
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			Rev: C01

REVISION 0
A1 C02 AC SS CDC BM 20/10/23

APPROVED - PUBLISHED



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FOR CONTINUATION REFER TO SHEET 3

FP AEH20

MINOR PRUNING
BACK/VEGETATION CLEARANCE
FOR SIGNAGE INSTALLATION
AND VISIBILITY SPLAYS

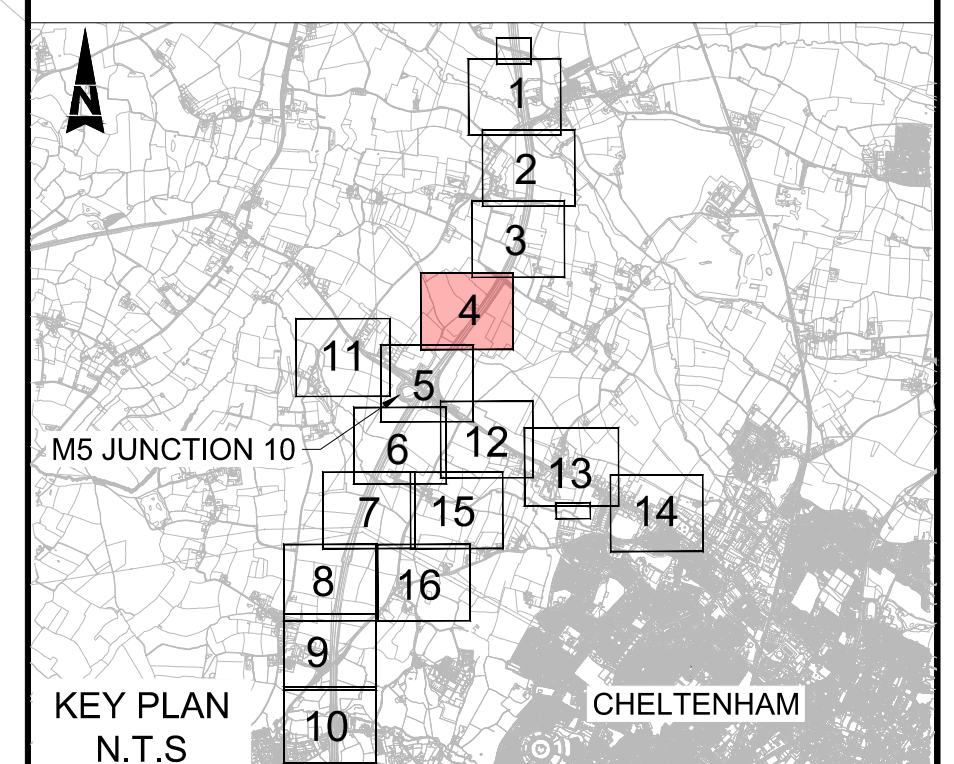
THIS HEDGE HAS BEEN
DESIGNATED AS ECOLOGICAL
ENHANCEMENT (NATIVE
SPECIES RICH HEDGEROW WITH
TREES ADJACENT TO DITCH)
VERY HIGH DISTINCT HABITAT.

ECOLOGICAL ENHANCEMENT -
SEE NOTE 9

BASIN - SEE NOTE 9

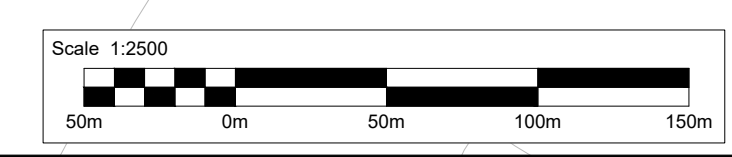
FOR CONTINUATION REFER TO SHEET 5

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
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A1	C01	YP	YP	YP	YP	02/07/24
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Reviewed for Sharing						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C02	AC	SS	CDC	LJ	24/07/24
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title			
M5 Junction 10 Improvements Scheme			
Drawing Title			
ENVIRONMENTAL MASTER PLAN SHEET 04 OF 16			
Drawing Number			
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ZZ	DR	LL	400120
Original Size: A1	Scale: AS SHOWN	Project Ref. No: 5228847	Sheet: 4 of 16 Rev: C02



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ETL

FOR CONTINUATION REFER TO SHEET 5

BASIN - SEE NOTE 9

M5 MAINLINE

EXCAVATED FLOOD STORAGE AREA

EVERGREEN SPECIES TO BE INCLUDED HERE

COMPENSATORY BAT ROOST STRUCTURE

ECOLOGICAL ENHANCEMENT - SEE NOTE 8

FOR CONTINUATION REFER TO SHEET 7

FOR CONTINUATION REFER TO SHEET 15

FOR CONTINUATION REFER TO SHEET 12

- NOTES:**
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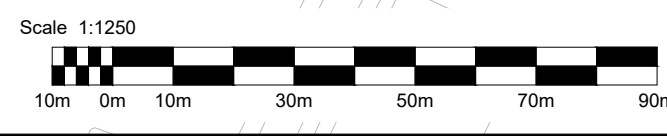
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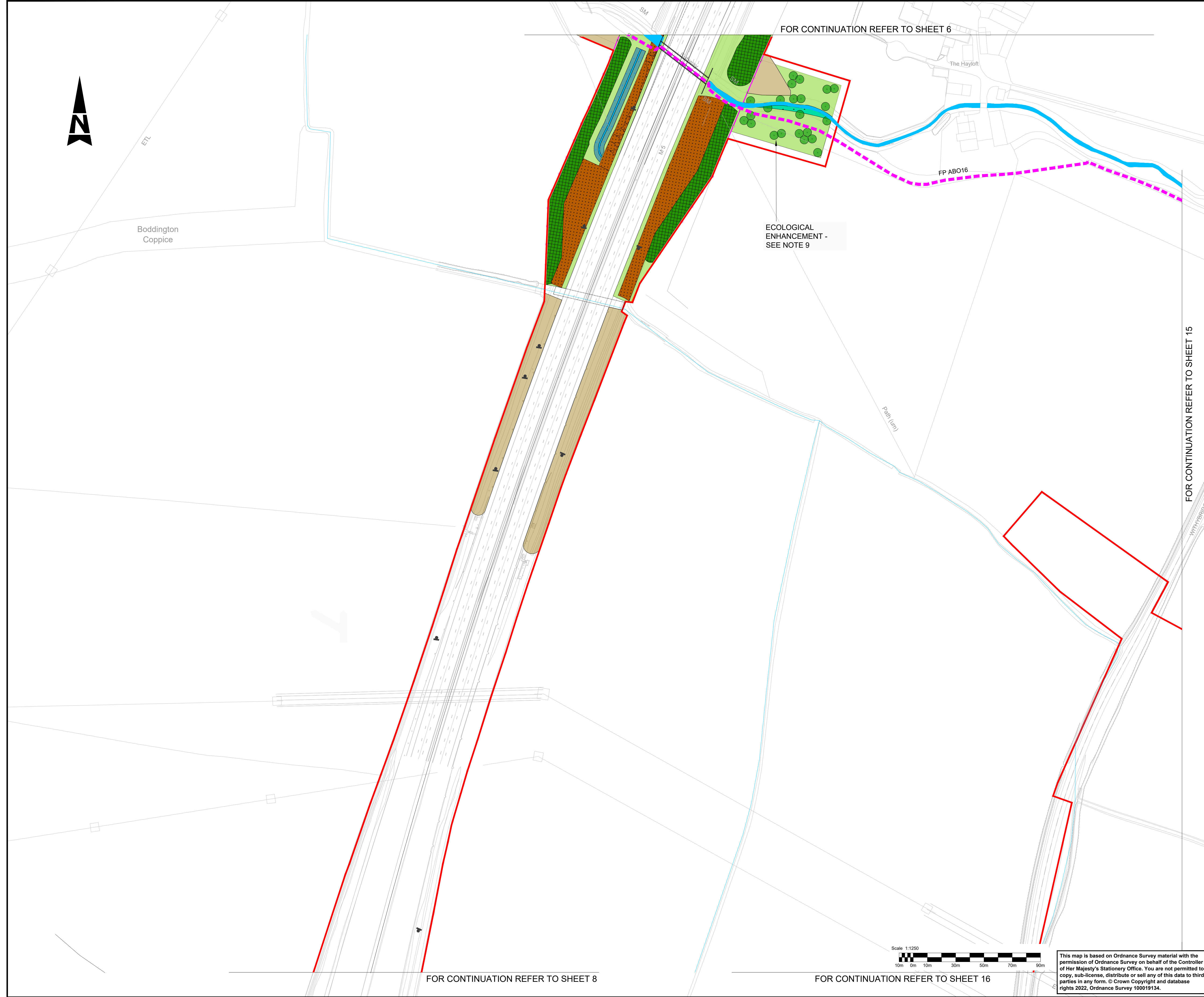
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Drawing Title
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Project Ref. No.	5228847	Sheet	6 of 16
Rev.	C02		

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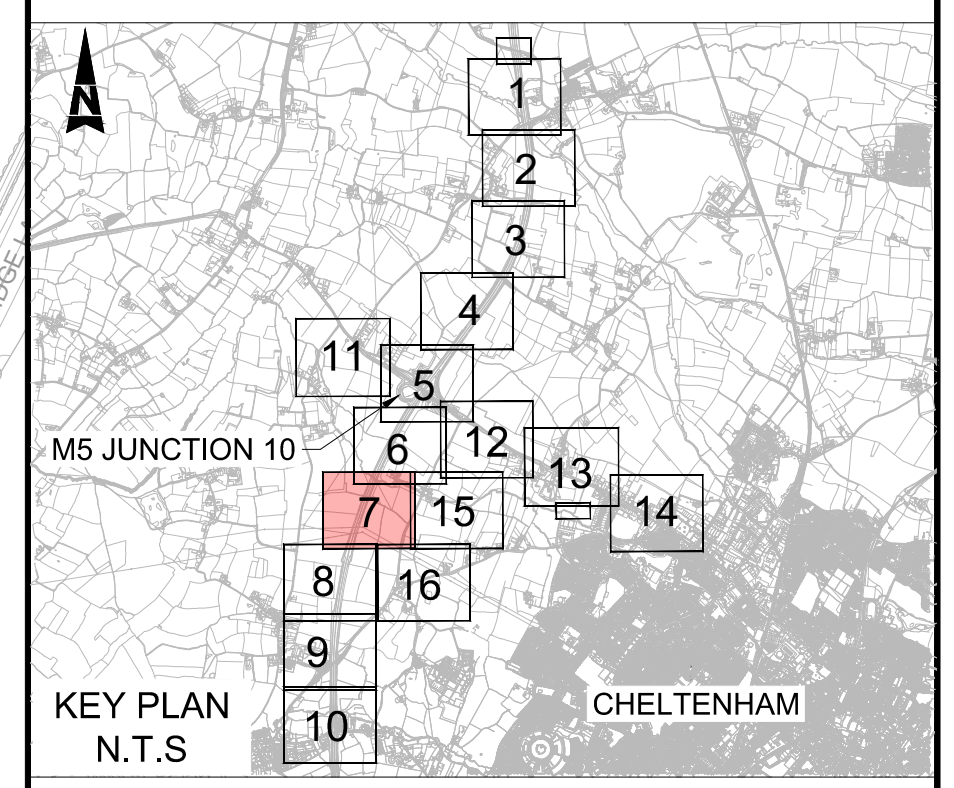


FOR CONTINUATION REFER TO SHEET 6

ECOLOGICAL ENHANCEMENT - SEE NOTE 9

- NOTES:**
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FOR CONTINUATION REFER TO SHEET 15



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Description						
Description						
REVISION 0						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title
M5 Junction 10 Improvements Scheme

Drawing Title
ENVIRONMENTAL MASTER PLAN
SHEET 07 OF 16

Drawing Number
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ZZ DR LL 000123

Original Size: A1 **Scale:** AS SHOWN **Project Ref. No.:** 5197035 **Sheet:** 7 of 16 **Rev:** C01

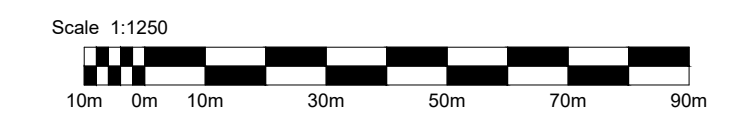


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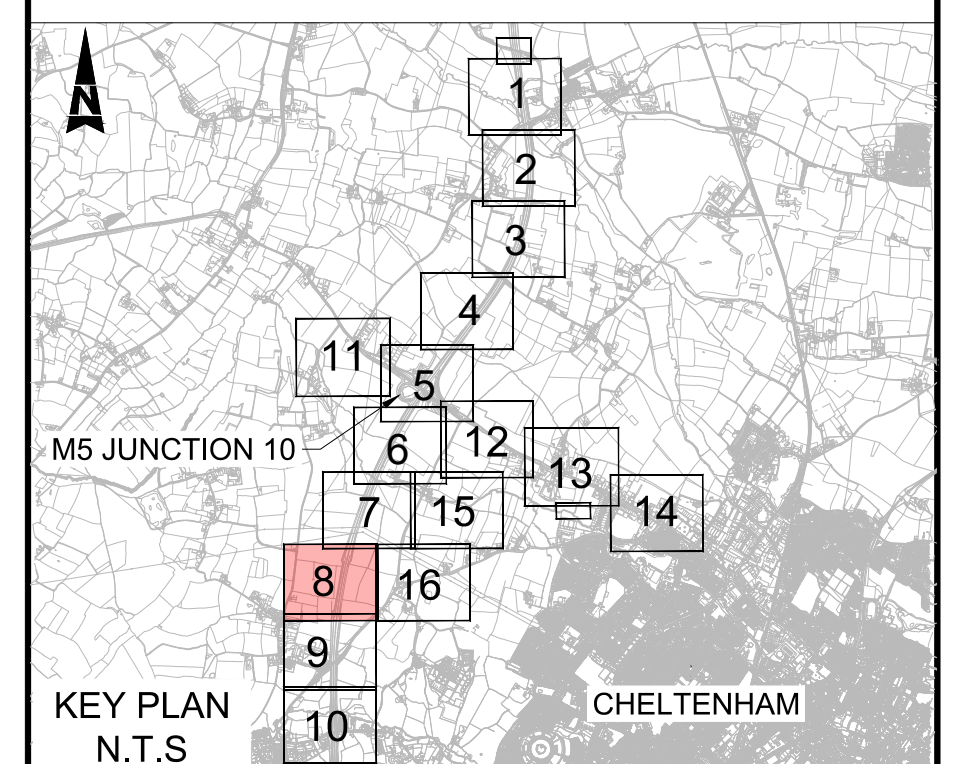
FOR CONTINUATION REFER TO SHEET 7

FOR CONTINUATION REFER TO SHEET 9



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- NOTES:**
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 - BUS STOPS TO CONSIDER HAVING GREEN ROOFS.
 - BADGER FENCE LINE WILL ALSO BE OTTER PROOF.
 - SIGNAGE: SIGHT LINES HAVE BEEN TAKEN INTO CONSIDERATION WITHIN THE LANDSCAPE DESIGN PROPOSAL, TO BE RESOLVED FURTHER IN THE DETAIL DESIGN STAGE.
 - ALLOWANCE HAS BEEN MADE FOR ARTIFICIAL BADGER SETTS WITHIN THE ORDER LIMITS TO REPLACE THOSE LOST. LOCATIONS ARE NOT SHOWN ON THIS PLAN DUE TO THE PERSECUTION FACED BY BADGERS, BUT ARE INCLUDED IN THE DRAFT BADGER LICENCE. ARTIFICIAL SETTS TO INCLUDE APPROPRIATE PLANTING.
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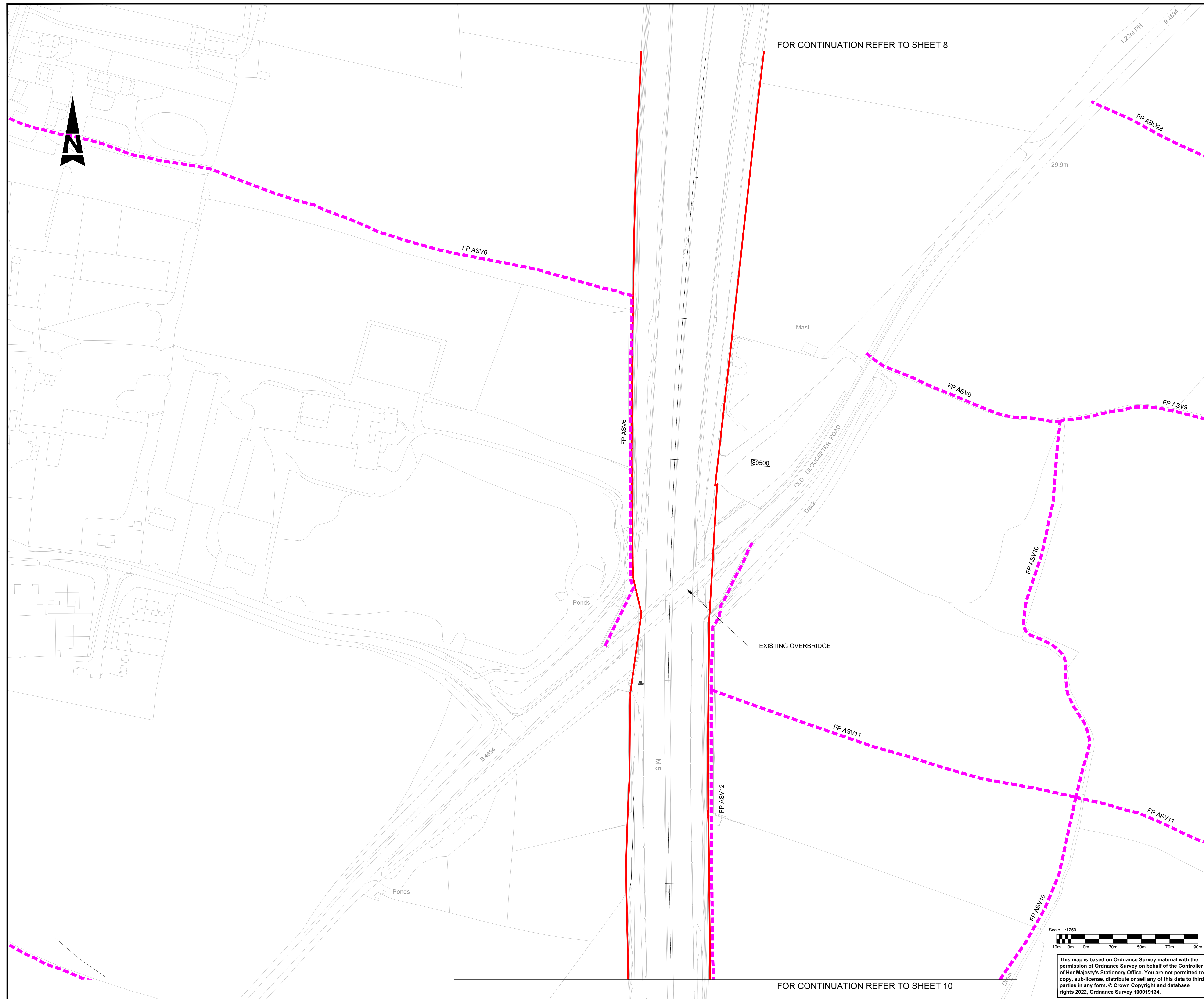
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A1	C01	YP	YP	YP	YP	02/07/24
Description						
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title
M5 Junction 10 Improvements Scheme

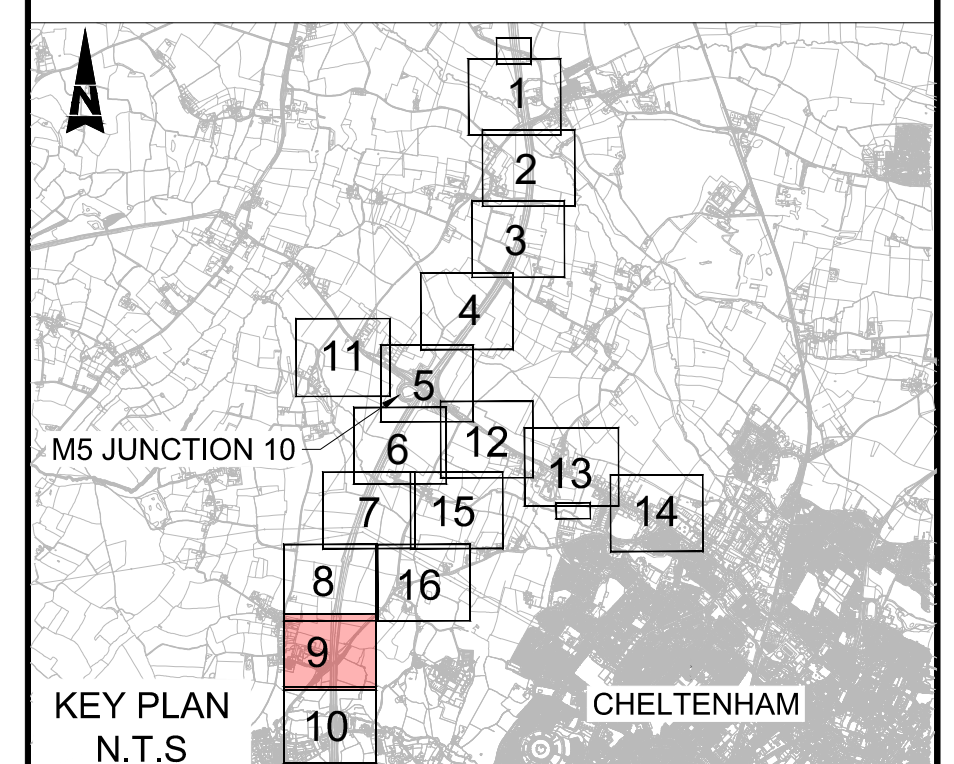
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ENVIRONMENTAL MASTER PLAN SHEET 08 OF 16

Drawing Number
GCCM5J10 ATK ELS
ZZ DR LL 400124

Original Size: A1 Scale: AS SHOWN Project Ref. No.: 5228847 Sheet: 8 of 16 Rev: C02



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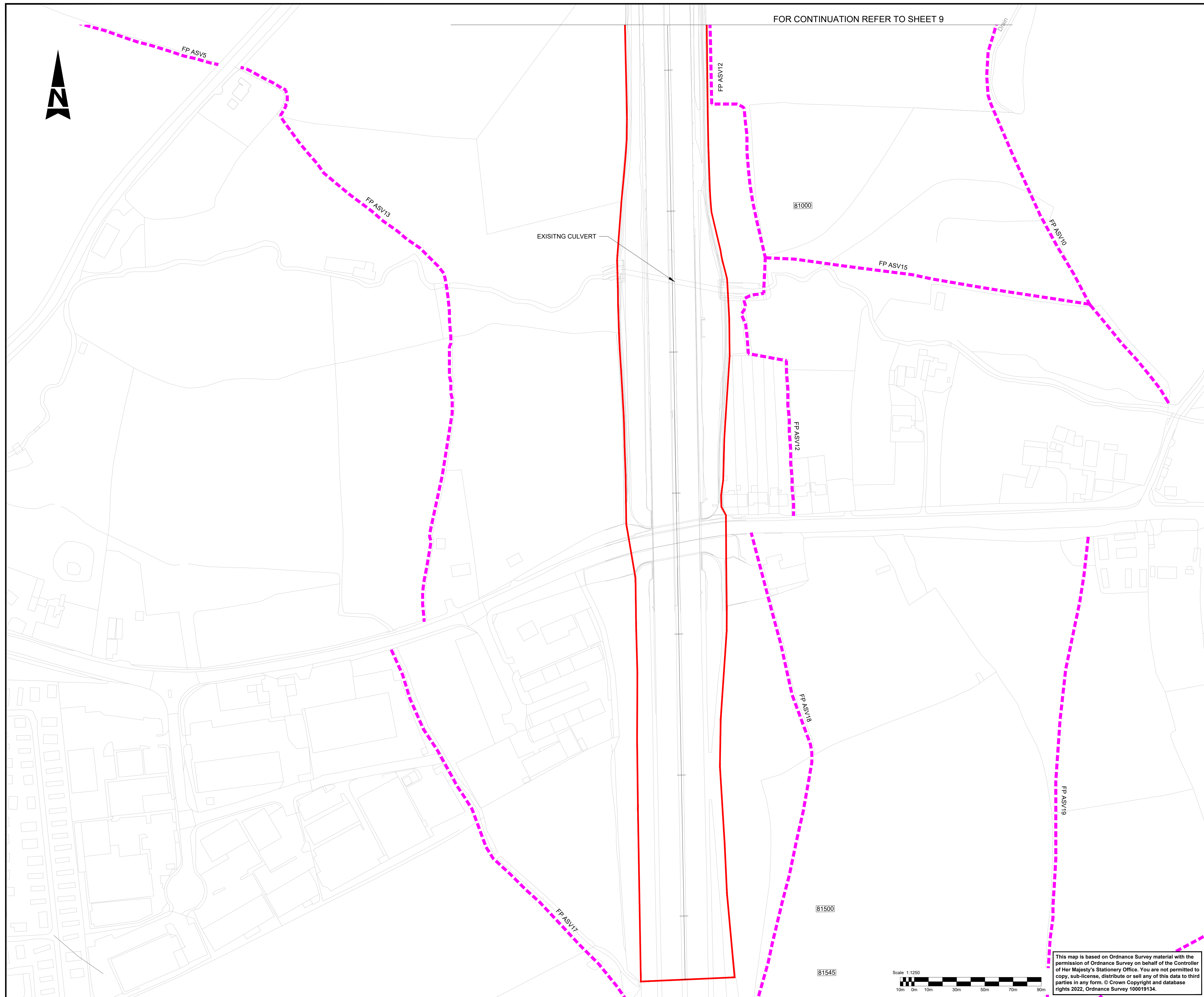


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A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

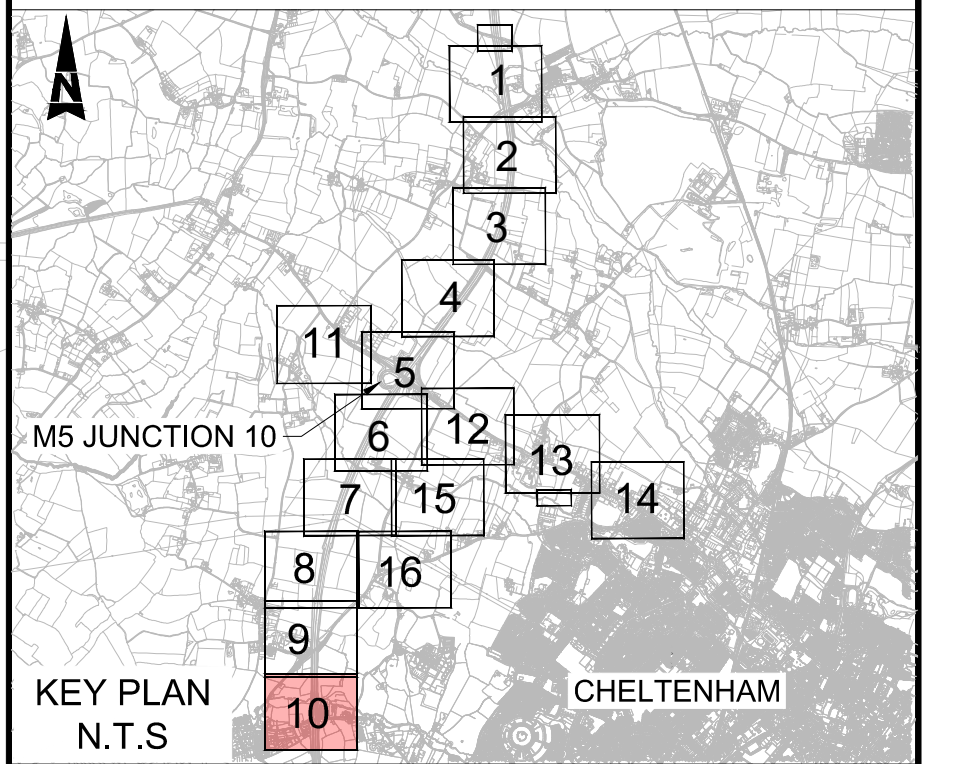
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A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title			
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