

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

September 2024

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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

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	C01
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	C01
Environmental Master Plan – Sheet 6 of 16	TR010063 – APP 2.13	C01
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	C01
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	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	C01 C02
Environmental Master Plan – Sheet 16 of 16	TR010063 – APP 2.13	C01
Proposed Indicative River Chelt Link Road River Cross-Sections	TR010063 – APP 2.13	C01

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 :

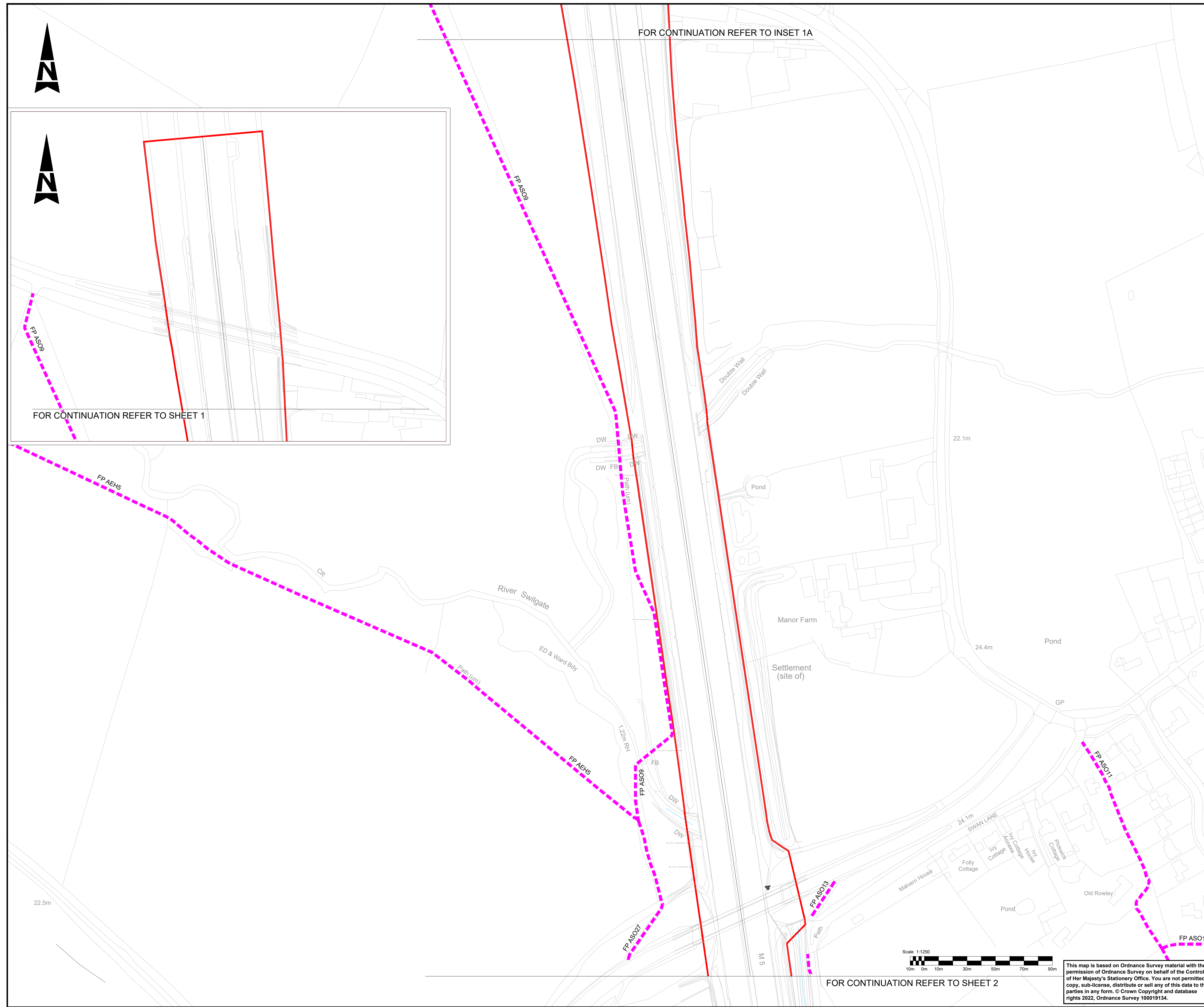
- RETAINED VEGETATION
- EXISTING DWELLING AND GARDEN - TO BE RETAINED
- EXISTING HEDGEROW - TO BE RETAINED
- EXISTING HEDGEROW - TO BE ENHANCED
- LE 1.2: GRASSLAND WITH BULBS
- LE 1.3: SPECIES RICH GRASSLAND
- LE 2.1: WOODLAND
- LE 2.2: WOODLAND EDGE
- LE 2.4: LINEAR BELTS OF SHRUBS AND TREES
- LE 2.5: 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
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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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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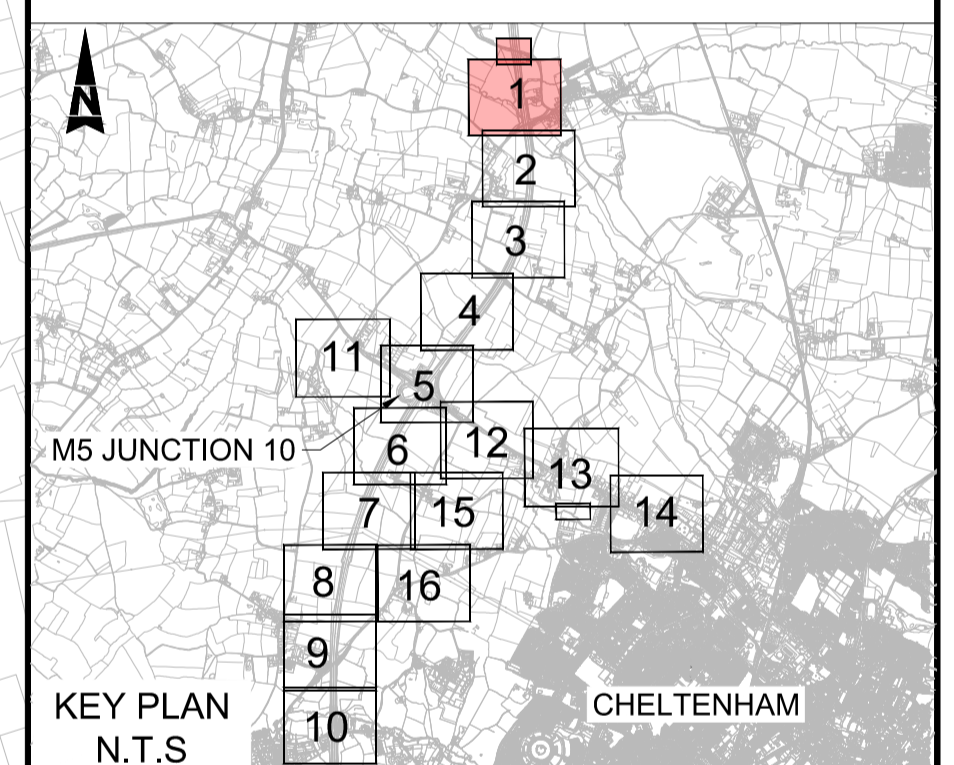


FOR CONTINUATION REFER TO INSET 1A

FOR CONTINUATION REFER TO SHEET 1

FOR CONTINUATION REFER TO SHEET 2

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - 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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 - 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.



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

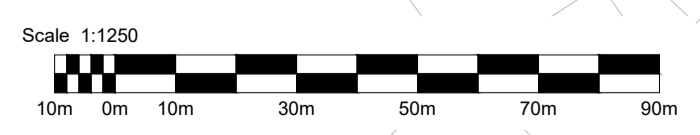
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Project Title: **M5 Junction 10 Improvements Scheme**

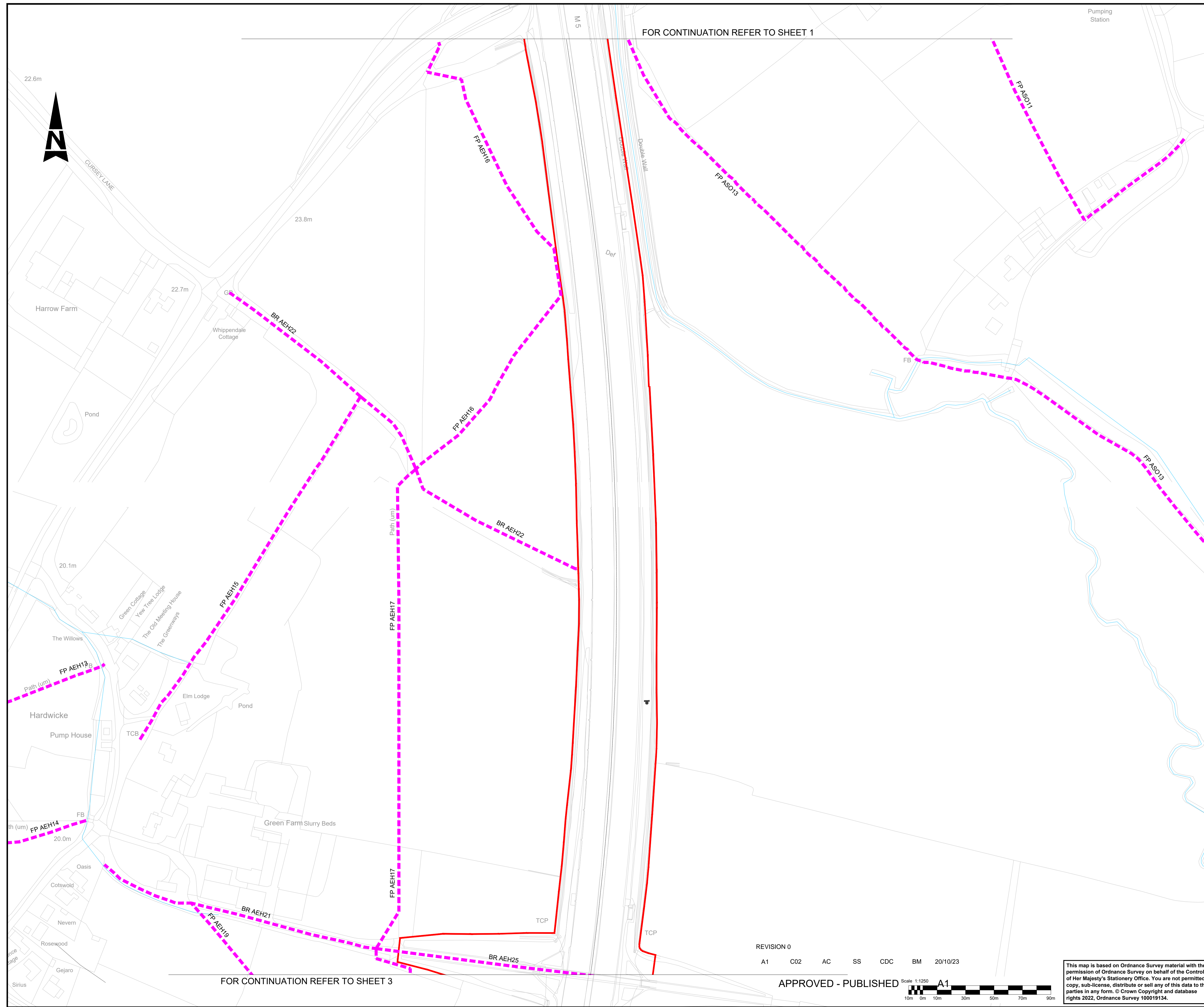
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Drawing Number: **GCCM5J10 ATK ELS ZZ DR LL 000117**

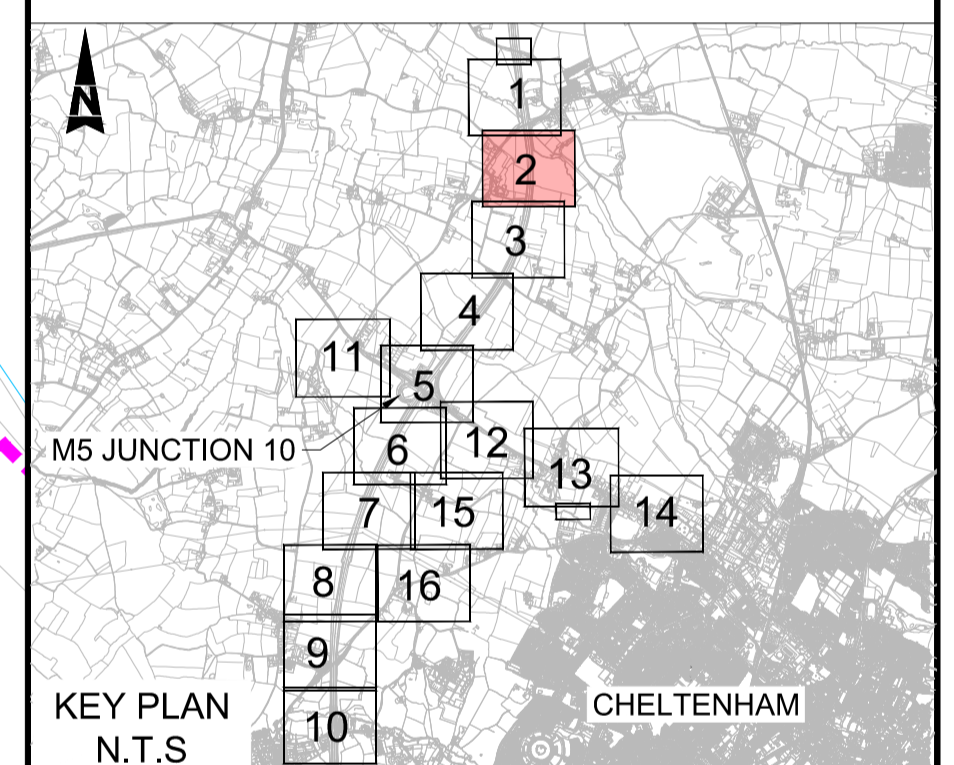
Original Size: **A1** Scale: **AS SHOWN** Project Ref. No.: **5197035** Sheet: **1 of 16** Rev: **C01**



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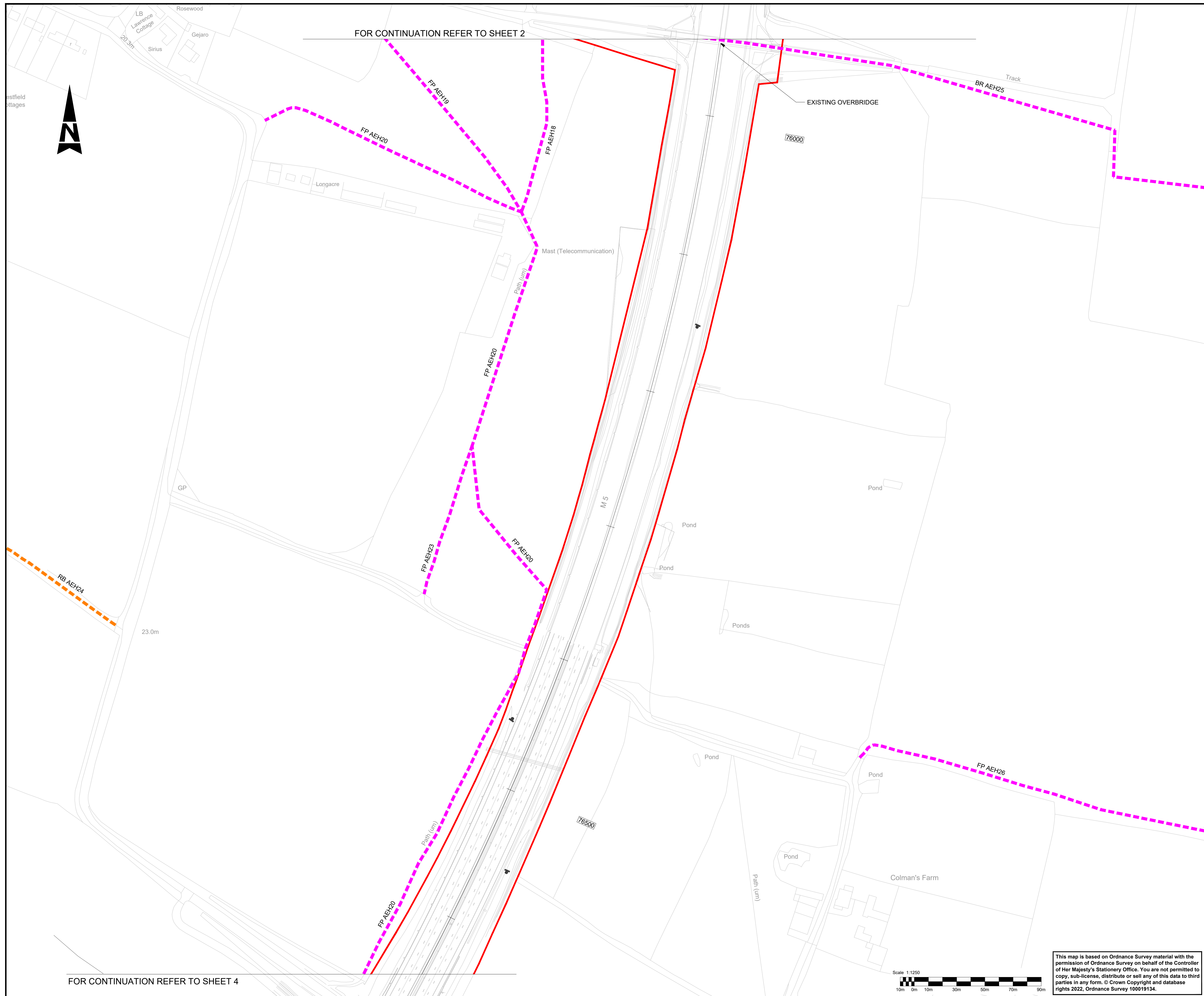


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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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REVISION 0						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status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

Project Title			
M5 Junction 10 Improvements Scheme			
Drawing Title			
ENVIRONMENTAL MASTER PLAN SHEET 02 OF 16			
Drawing Number			
GCCM5J10	ATK	ELS	
ZZ	DR	LL	000118
Original Size: A1	Scale: AS SHOWN	Project Ref. No.: 5197035	Sheet: 2 of 16 Rev: C01



estfield
pffages

Rosewood
Lawrence
Cottage
20.3m
Sirius
Gejaro

FOR CONTINUATION REFER TO SHEET 2

Longacre

Mast (Telecommunication)

Path (um)

M 5

Pond

Pond

Pond

Ponds

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Pond

Colman's Farm

Path (um)

76000

76500

BR AEH25

Track

EXISTING OVERBRIDGE

23.0m

GP

RB AEH24

FP AEH18

FP AEH19

FP AEH20

FP AEH21

FP AEH22

FP AEH23

FP AEH24

FP AEH25

FP AEH26

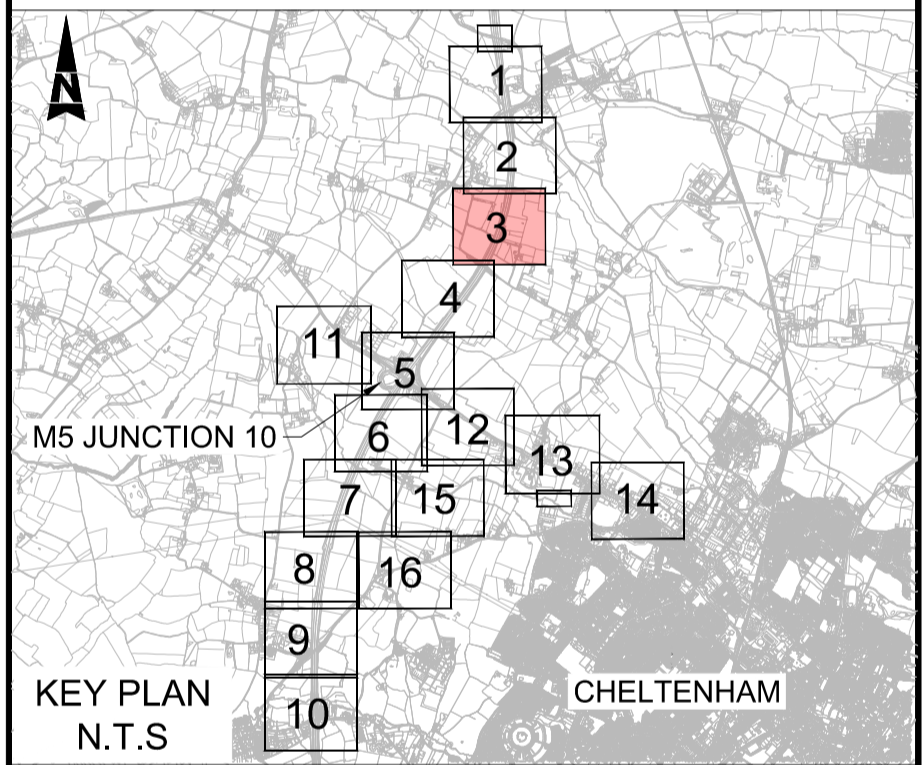
FOR CONTINUATION REFER TO SHEET 4

Scale 1:1250

10m 0m 10m 30m 50m 70m 90m

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

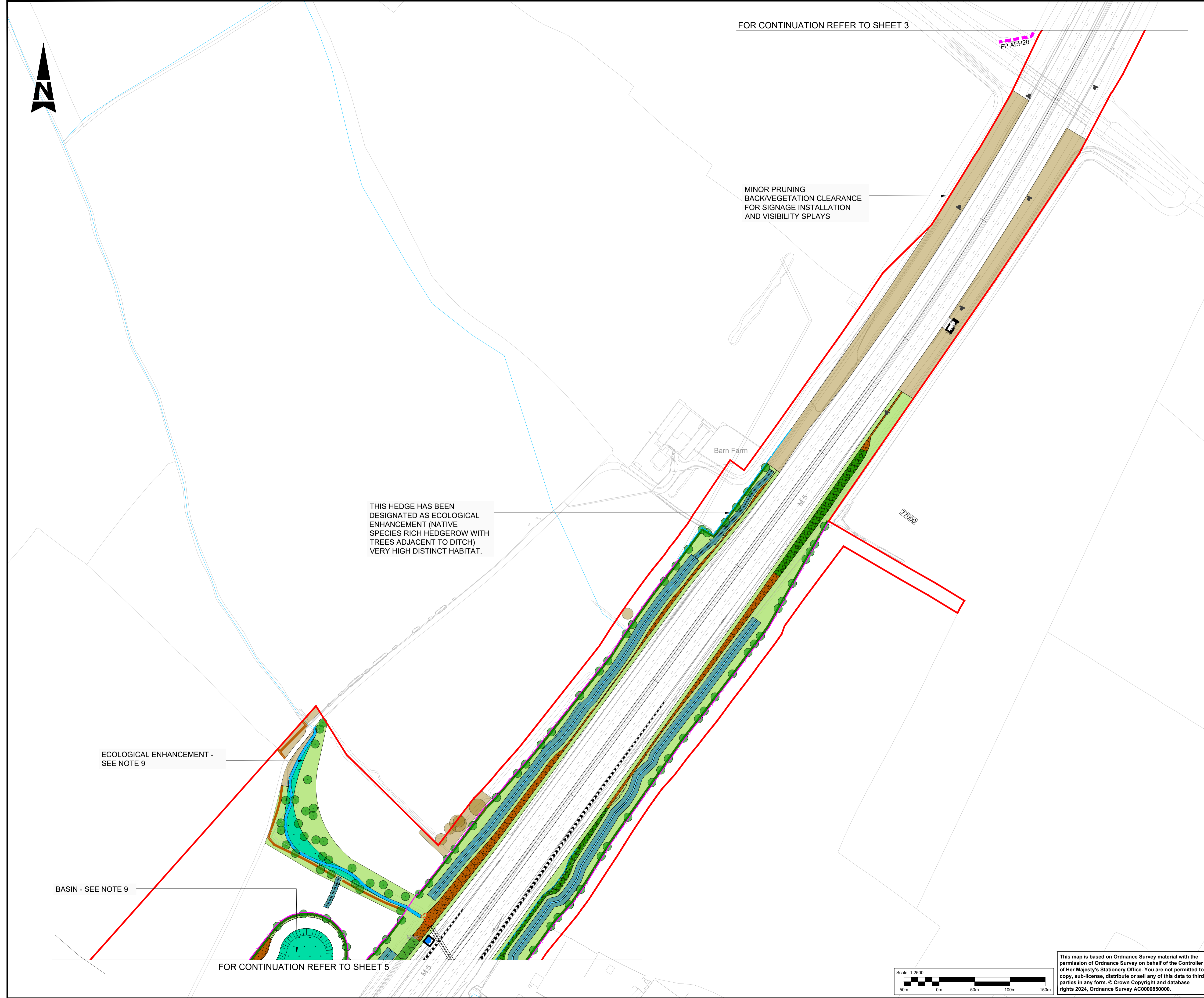
Drawing Suitability: APPROVED - PUBLISHED Status: A1

Project Title: M5 Junction 10 Improvements Scheme

Drawing Title: ENVIRONMENTAL MASTER PLAN SHEET 03 OF 16

Drawing Number: GCCM5J10 ATK ELS ZZ DR LL 000119

Original Size: A1 Scale: AS SHOWN Project Ref. No.: 5197035 Sheet: 3 of 16 Rev: C01



FOR CONTINUATION REFER TO SHEET 3

FP AEH20

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

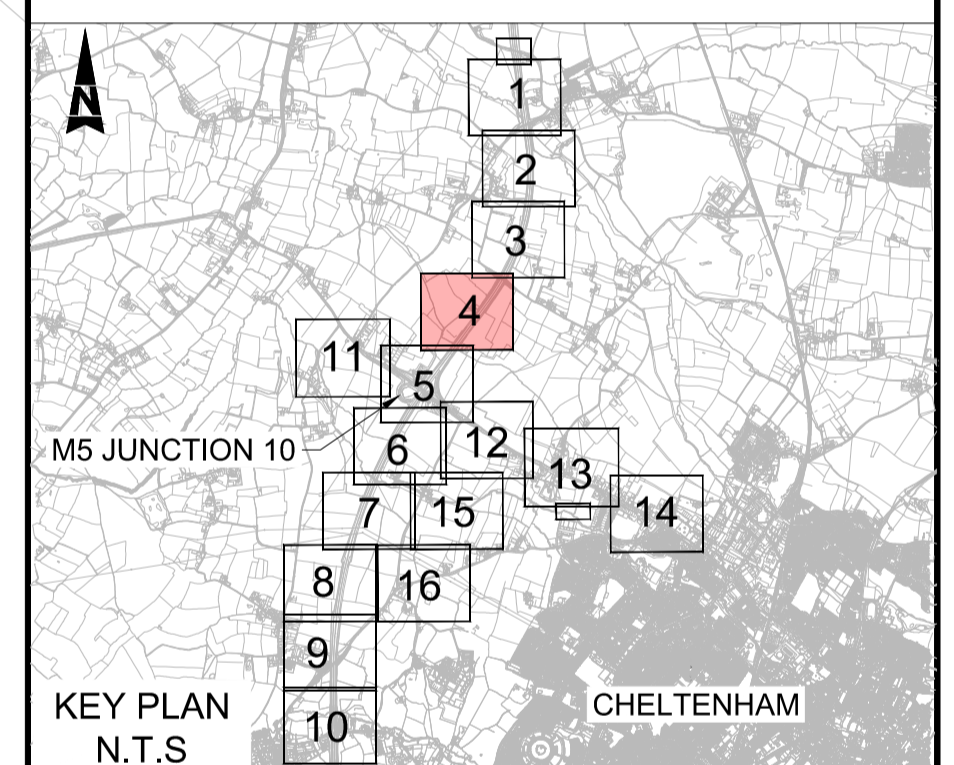
THIS HEDGE HAS BEEN
DESIGNATED AS ECOLOGICAL
ENHANCEMENT (NATIVE
SPECIES RICH HEDGEROW WITH
TREES ADJACENT TO DITCH)
VERY HIGH DISTINCT HABITAT.

ECOLOGICAL ENHANCEMENT -
SEE NOTE 9

BASIN - SEE NOTE 9

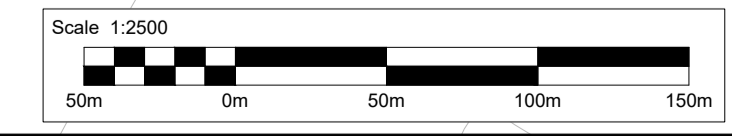
FOR CONTINUATION REFER TO SHEET 5

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Description						
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Description						
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

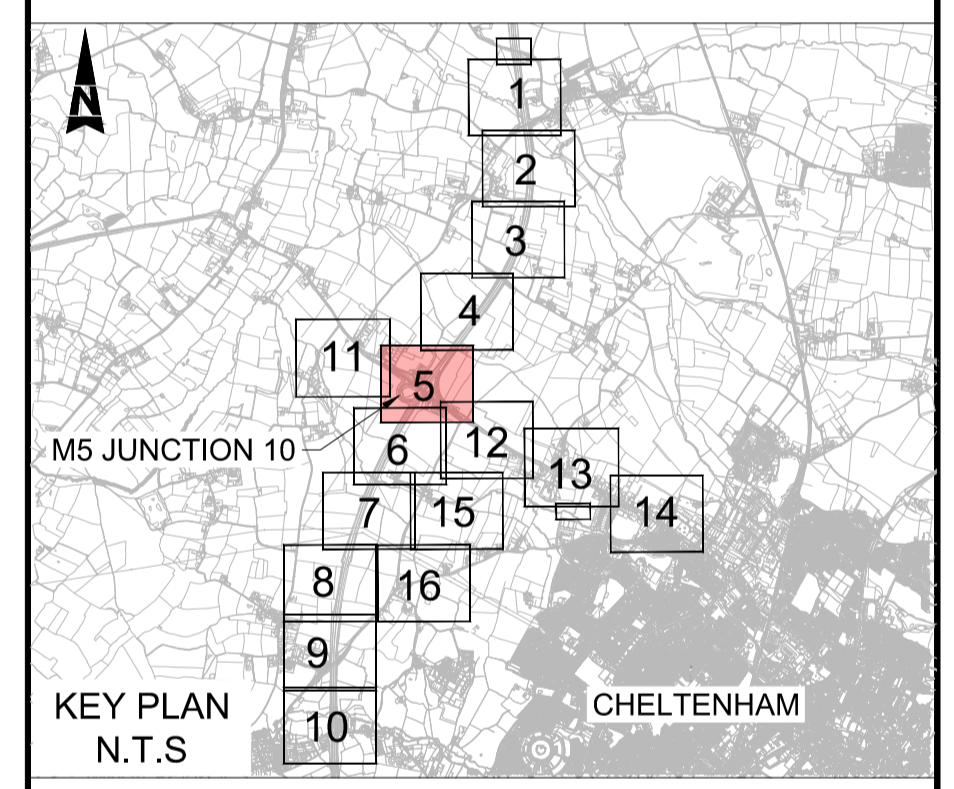
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M5 Junction 10 Improvements Scheme			
Drawing Title			
ENVIRONMENTAL MASTER PLAN SHEET 04 OF 16			
Drawing Number			
GCCM5J10	ATK	ELS	
ZZ	DR	LL	400120
Original Size: A1	Scale: AS SHOWN	Project Ref. No: 5228847	Sheet: 4 of 16 Rev: C02



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Description							

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

Drawing Suitability: **APPROVED - PUBLISHED** Status: **A1**

Project Title: **M5 Junction 10 Improvements Scheme**

Drawing Title: **ENVIRONMENTAL MASTER PLAN SHEET 05 OF 16**

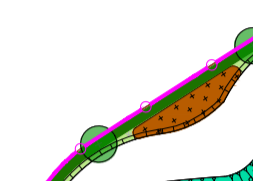
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Original Size:	A1	Scale: AS SHOWN	Project Ref. No.: 5197035
			Sheet: 5 of 16
			Rev: C01



ETL

FOR CONTINUATION REFER TO SHEET 5

BASIN - SEE NOTE 9



Issues

EXCAVATED FLOOD STORAGE AREA

EVERGREEN SPECIES TO BE INCLUDED HERE

COMPENSATORY BAT ROOST STRUCTURE

ECOLOGICAL ENHANCEMENT - SEE NOTE 9



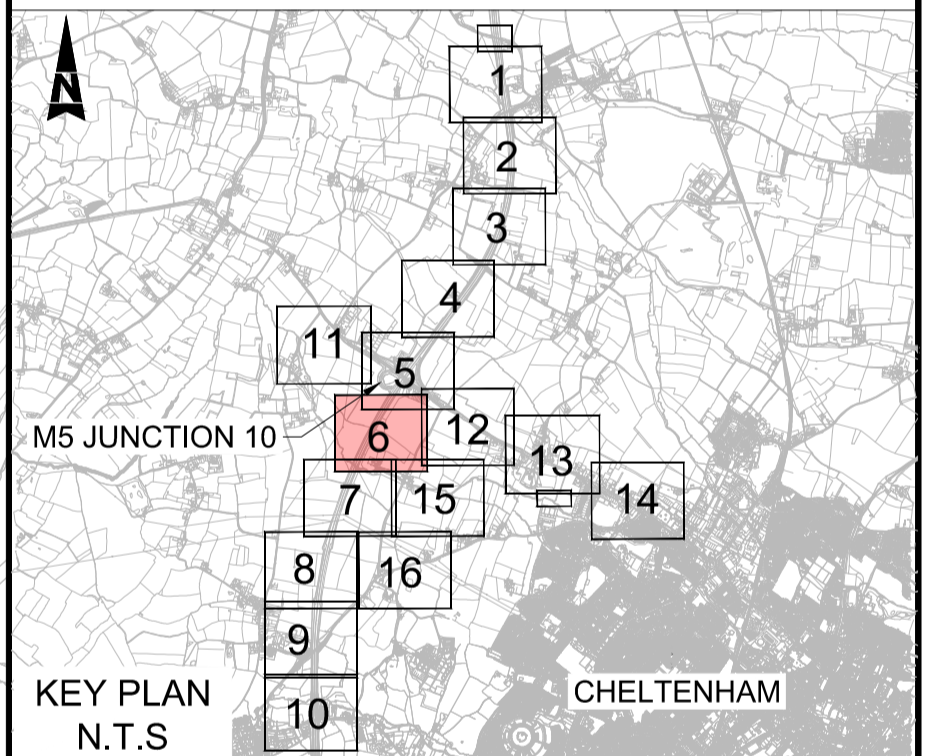
FOR CONTINUATION REFER TO SHEET 7

FOR CONTINUATION REFER TO SHEET 15

FOR CONTINUATION REFER TO SHEET 12

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

Project Title
M5 Junction 10 Improvements Scheme

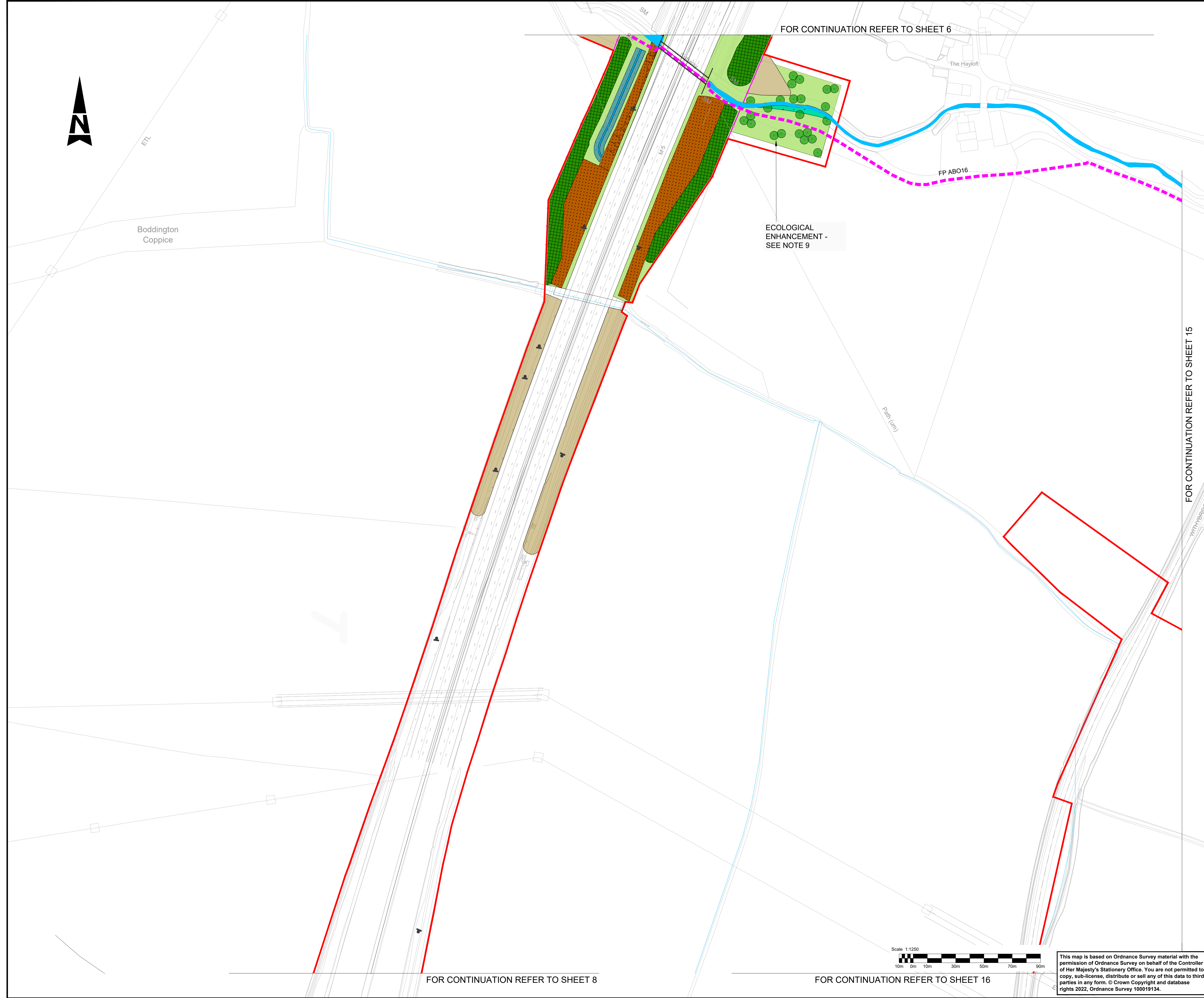
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ENVIRONMENTAL MASTER PLAN
SHEET 06 OF 16

Drawing Number
GCCM5J10 ATK ELS
ZZ DR LL 000122

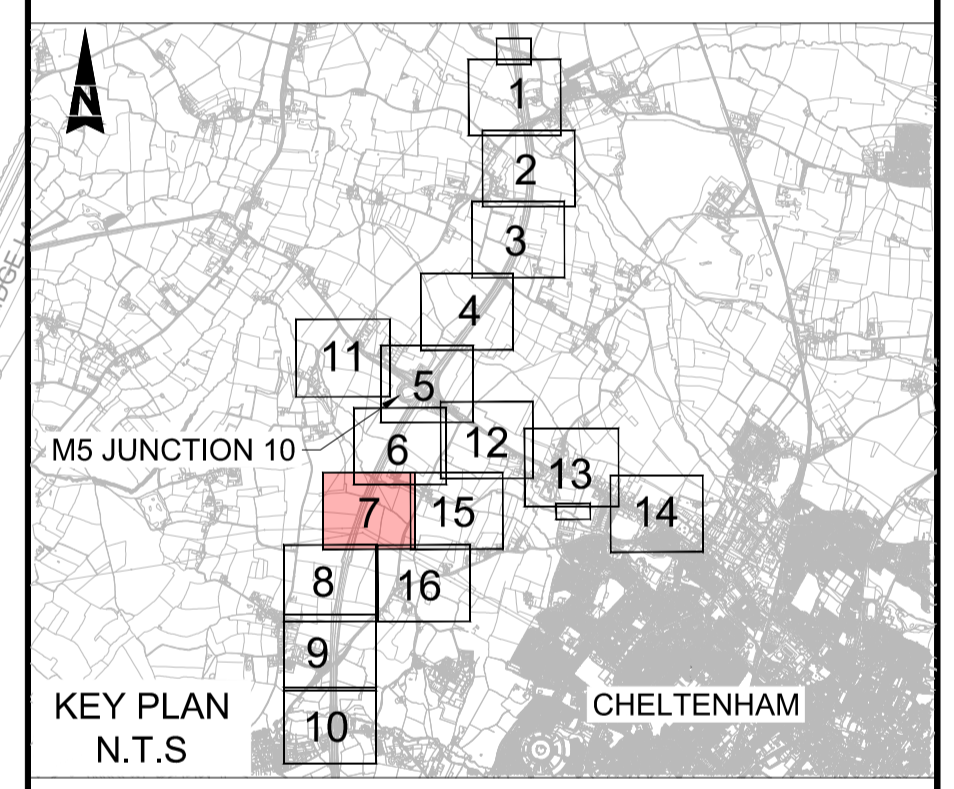
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- NOTES:**
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 - BUS STOPS TO CONSIDER HAVING GREEN ROOFS.
 - BADGER FENCE LINE WILL ALSO BE OTTER PROOF.
 - SIGNAGE: SIGHT LINES HAVE BEEN TAKEN INTO CONSIDERATION WITHIN THE LANDSCAPE DESIGN PROPOSAL, 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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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
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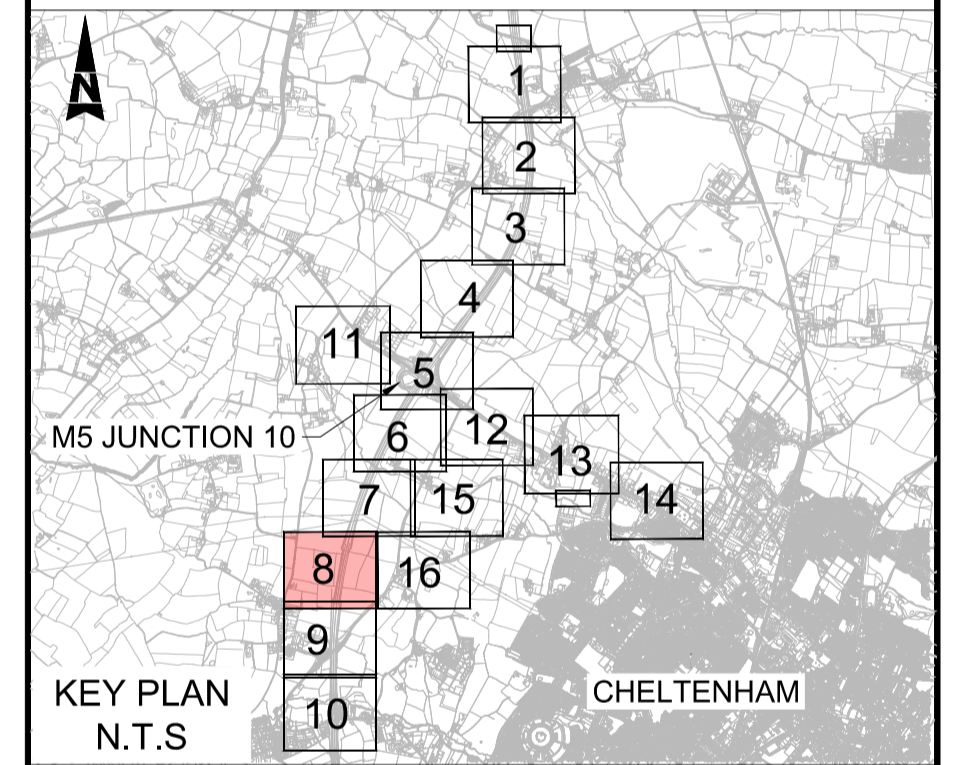


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FOR CONTINUATION REFER TO SHEET 7



- NOTES:**
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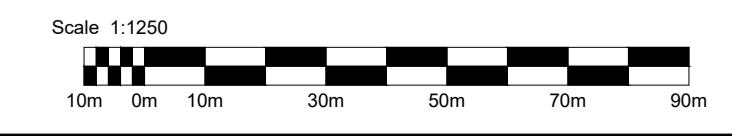
1.22m RH

Def

1.22m RH

Def

FOR CONTINUATION REFER TO SHEET 9



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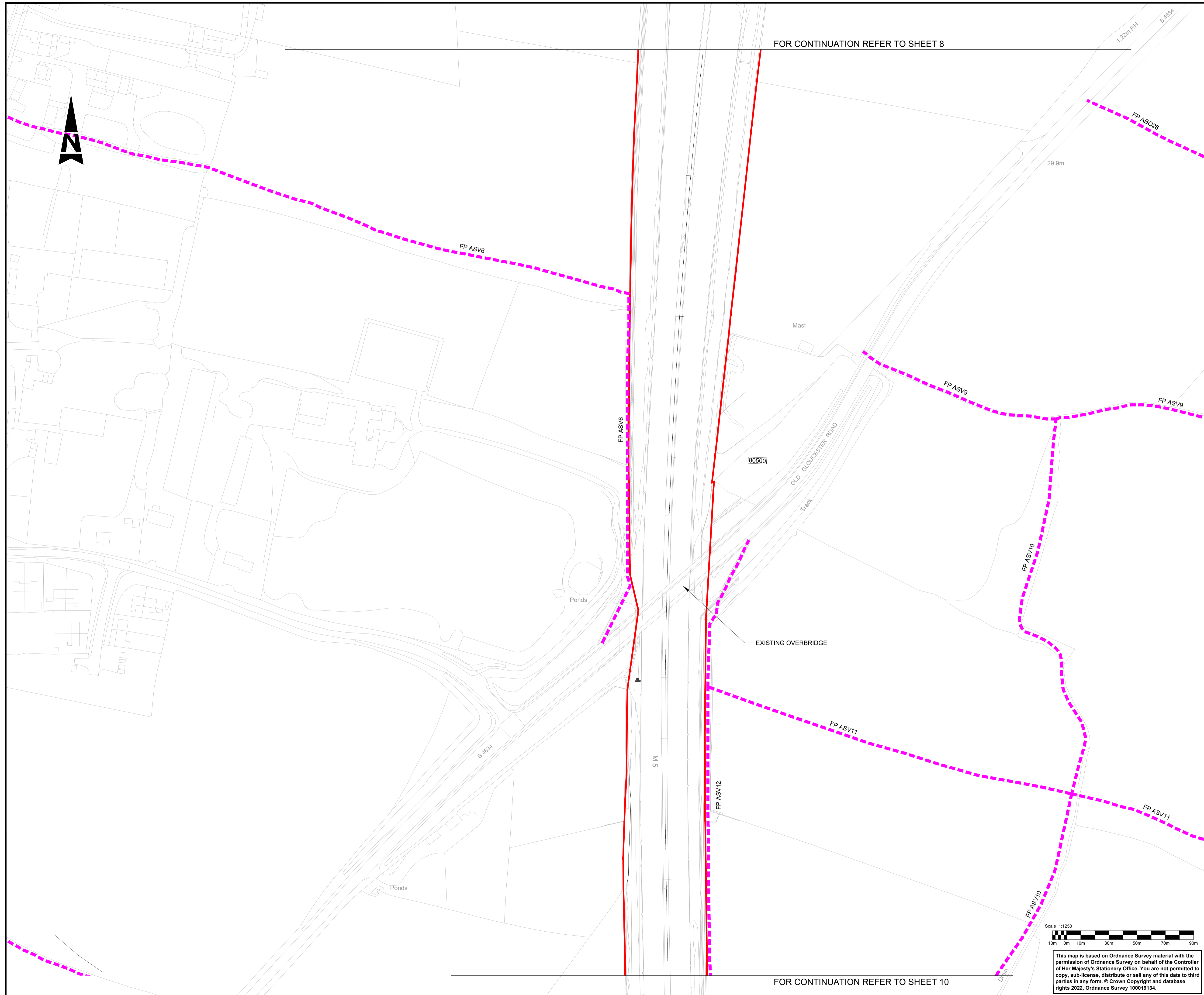
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Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title
M5 Junction 10 Improvements Scheme

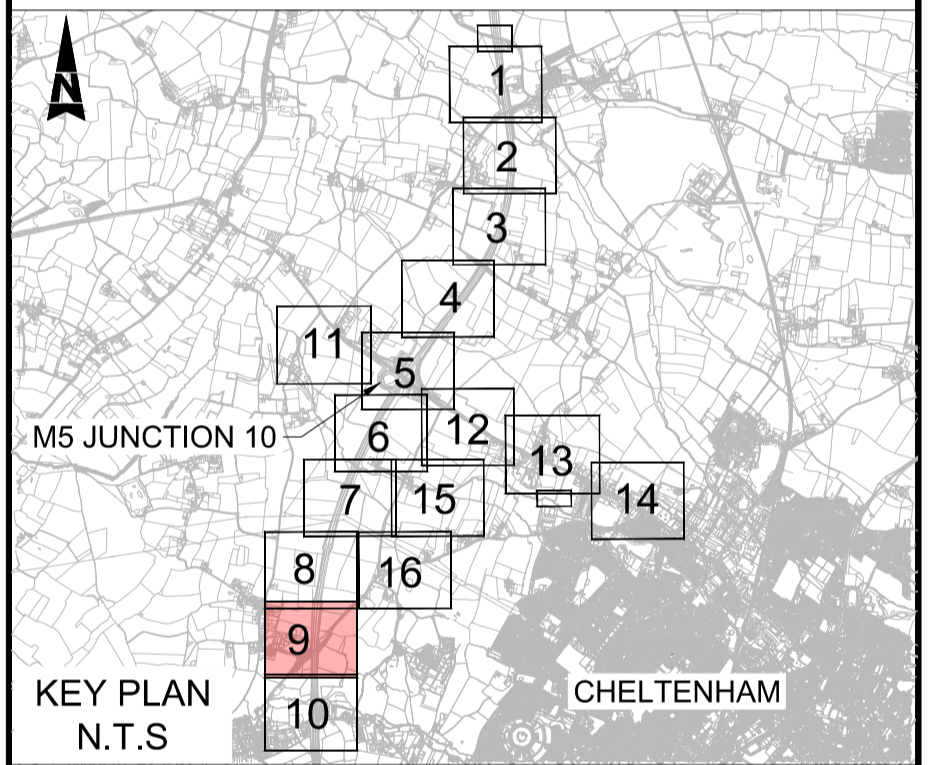
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**ENVIRONMENTAL MASTER PLAN
SHEET 08 OF 16**

Drawing Number
GCCM5J10 ATK ELS
ZZ DR LL 000124

Original Size: A1 Scale: AS SHOWN Project Ref. No.: 5197035 Sheet: 8 of 16 Rev: C01



- NOTES:**
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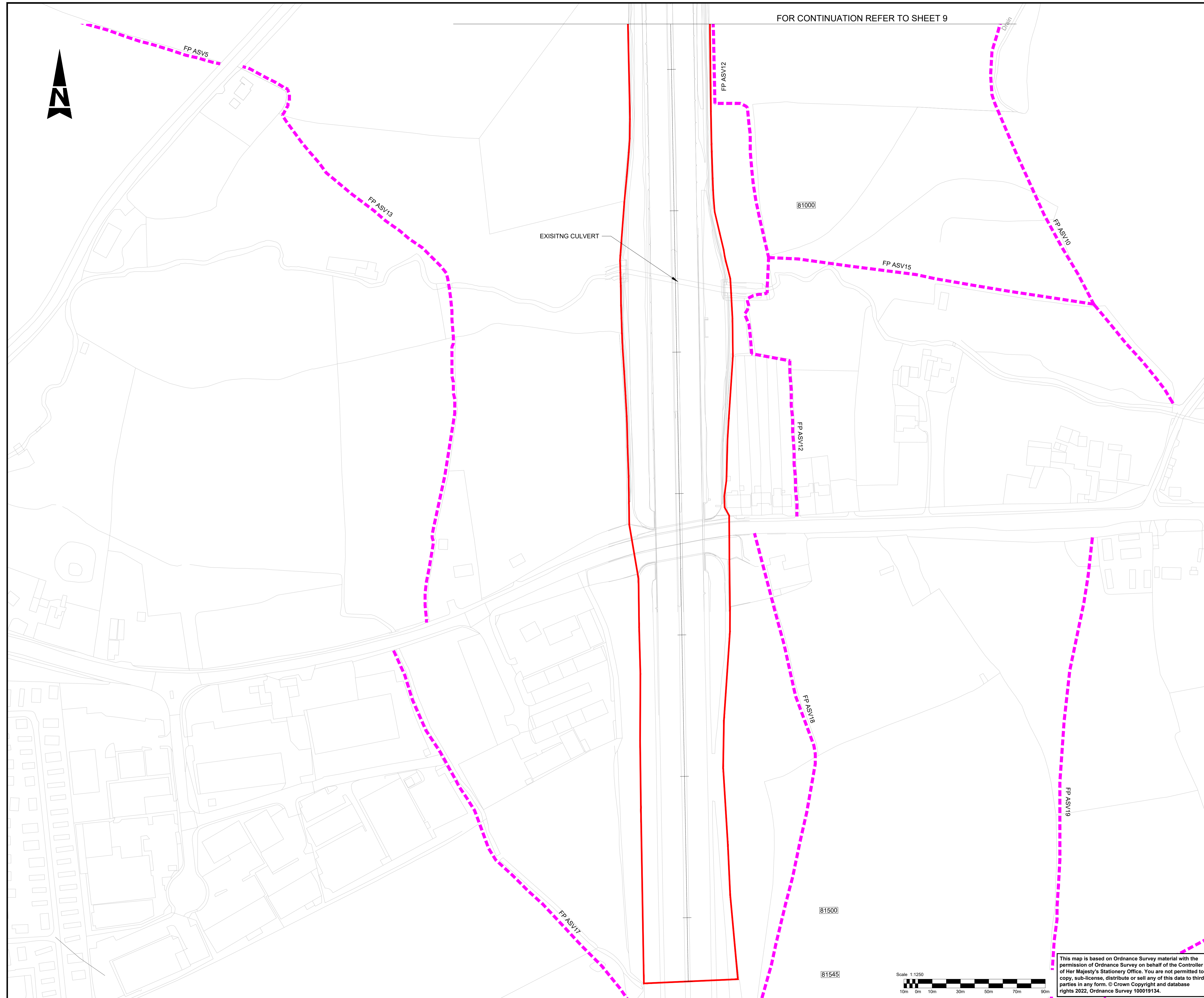


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A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1
Project Title						
M5 Junction 10 Improvements Scheme						
Drawing Title						
ENVIRONMENTAL MASTER PLAN SHEET 09 OF 16						
Drawing Number						
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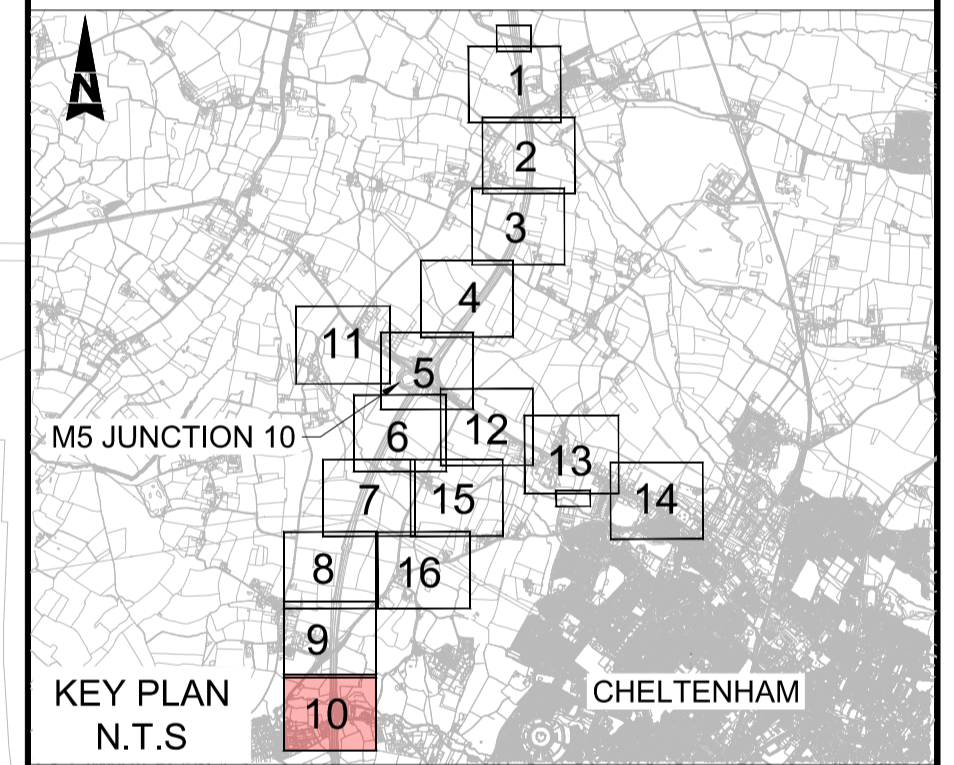
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FOR CONTINUATION REFER TO SHEET 9



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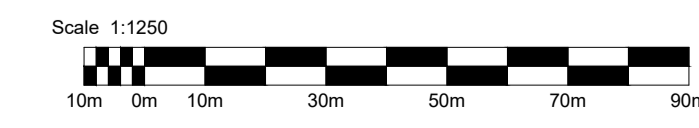
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AC	SS	CDC	BM	20/10/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title
M5 Junction 10 Improvements Scheme

Drawing Title
ENVIRONMENTAL MASTER PLAN SHEET 10 OF 16

Drawing Number			
GCCM5J10 ZZ	ATK	ELS DR LL	000126
Original Size: A1	Scale: AS SHOWN	Project Ref. No.: 5197035	Sheet: 10 of 16 Rev: C01

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5th Floor, Block 5
Shire Hall
Bearland
Gloucester
GL1 2TH