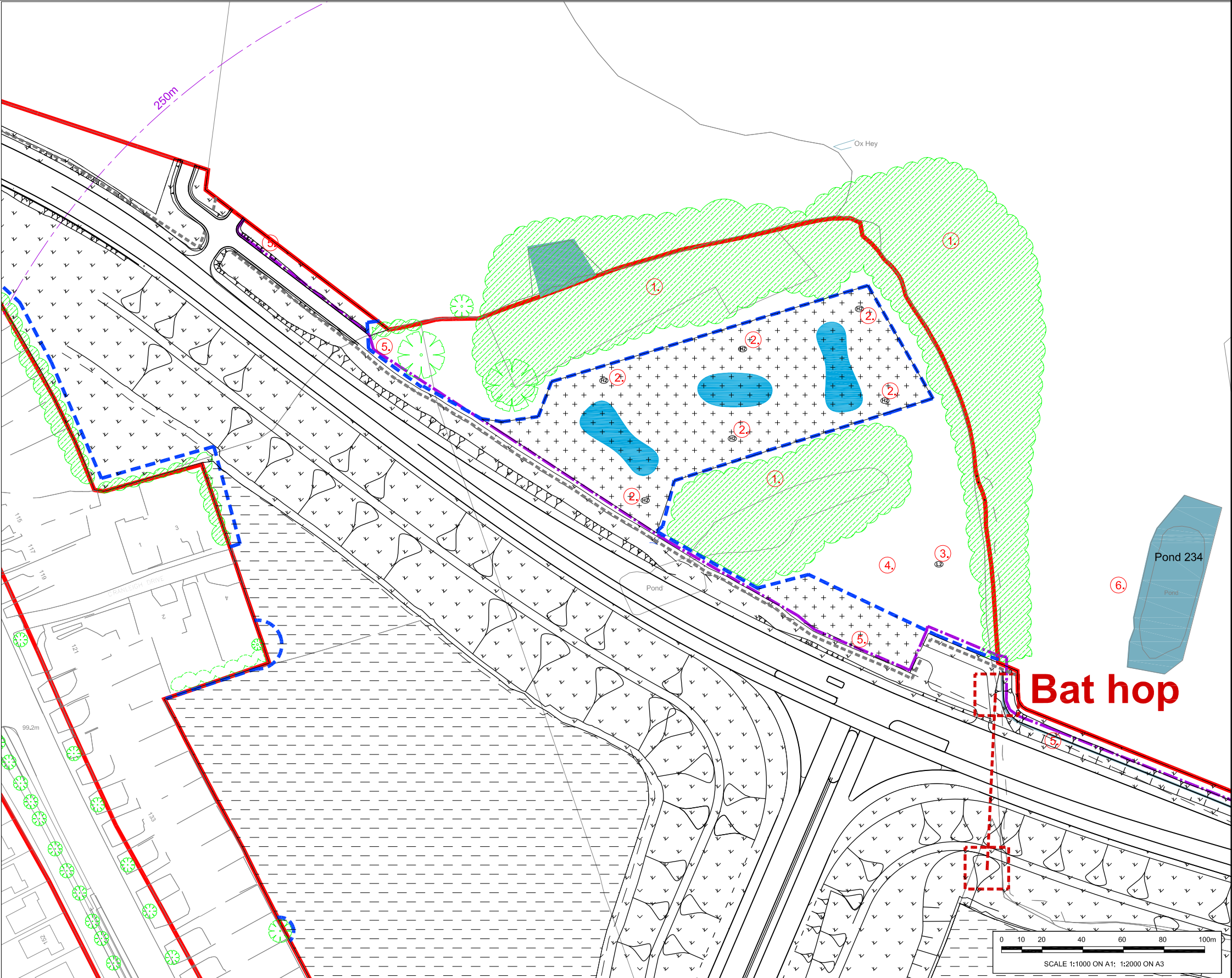





















Appendix C

NOTES:

1. Areas of woodland to be protected and retained
2. Hibernation mounds: 2m length x 2m width x 1m height
3. Log pile to be placed as suitable refugium between receptor site and habitat creation area: 2m length x 2m width x 1m height
4. Existing grassland to be retained
5. One-way newt fencing to keep newts off the new road. One-way to allow any newts that do gain access, an escape route
6. Four hibernation mounds to be provided within the vicinity of pond 234. Location to be confirmed on site



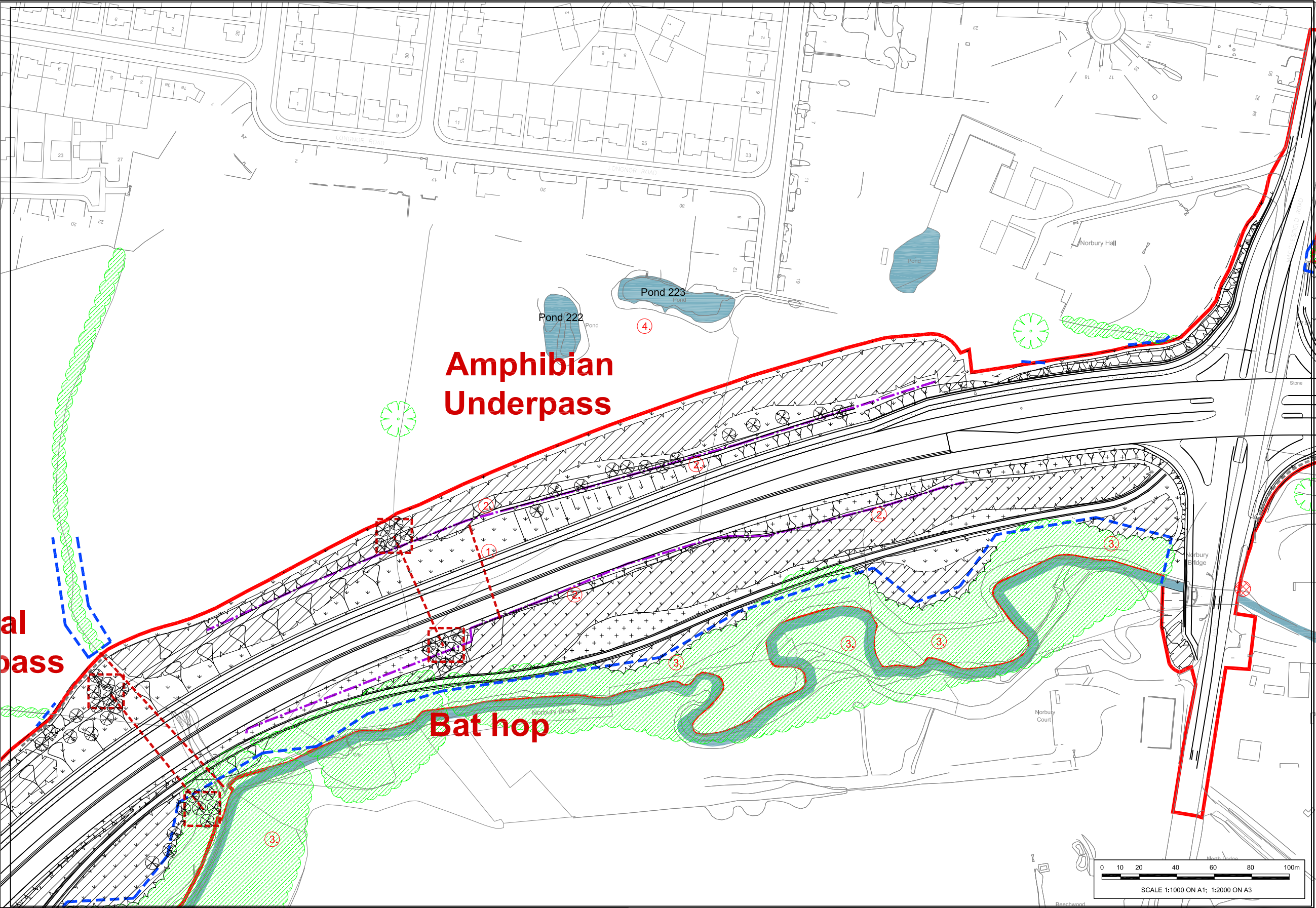
REV.	DATE	AMENDMENT DETAILS	ORIG	CHKD	ENG	CAT II	APPD

EXISTING FEATURES	PROPOSED FEATURES	VEGETATION PROTECTION
		
		
		
		
		
		
		
		

Client:		  STOCKPORT METROPOLITAN BOROUGH COUNCIL		 MANCHESTER CITY COUNCIL	Title: FIGURE E3.1 HAZEL GROVE META -POPULATION HABITAT CREATION, RESTORATION AND ENHANCEMENT MEASURES												
   		Project: A6 TO MANCHESTER AIRPORT RELIEF ROAD		<table border="1"><tr><td>Drawn: HCD</td><td>Checked: BJ</td><td>Approved: LMK</td><td>Scale: 1:700</td></tr><tr><td>Date: 13/08/14</td><td>Date: 13/08/14</td><td>Date: 15/08/14</td><td>Original drawing size: 841 x 594 - A1</td></tr><tr><td colspan="3">Drawing No. A6MARR-0-W-30-003-FI-311</td><td>Rev: P1</td></tr></table>		Drawn: HCD	Checked: BJ	Approved: LMK	Scale: 1:700	Date: 13/08/14	Date: 13/08/14	Date: 15/08/14	Original drawing size: 841 x 594 - A1	Drawing No. A6MARR-0-W-30-003-FI-311			Rev: P1
Drawn: HCD	Checked: BJ	Approved: LMK	Scale: 1:700														
Date: 13/08/14	Date: 13/08/14	Date: 15/08/14	Original drawing size: 841 x 594 - A1														
Drawing No. A6MARR-0-W-30-003-FI-311			Rev: P1														

NOTES:

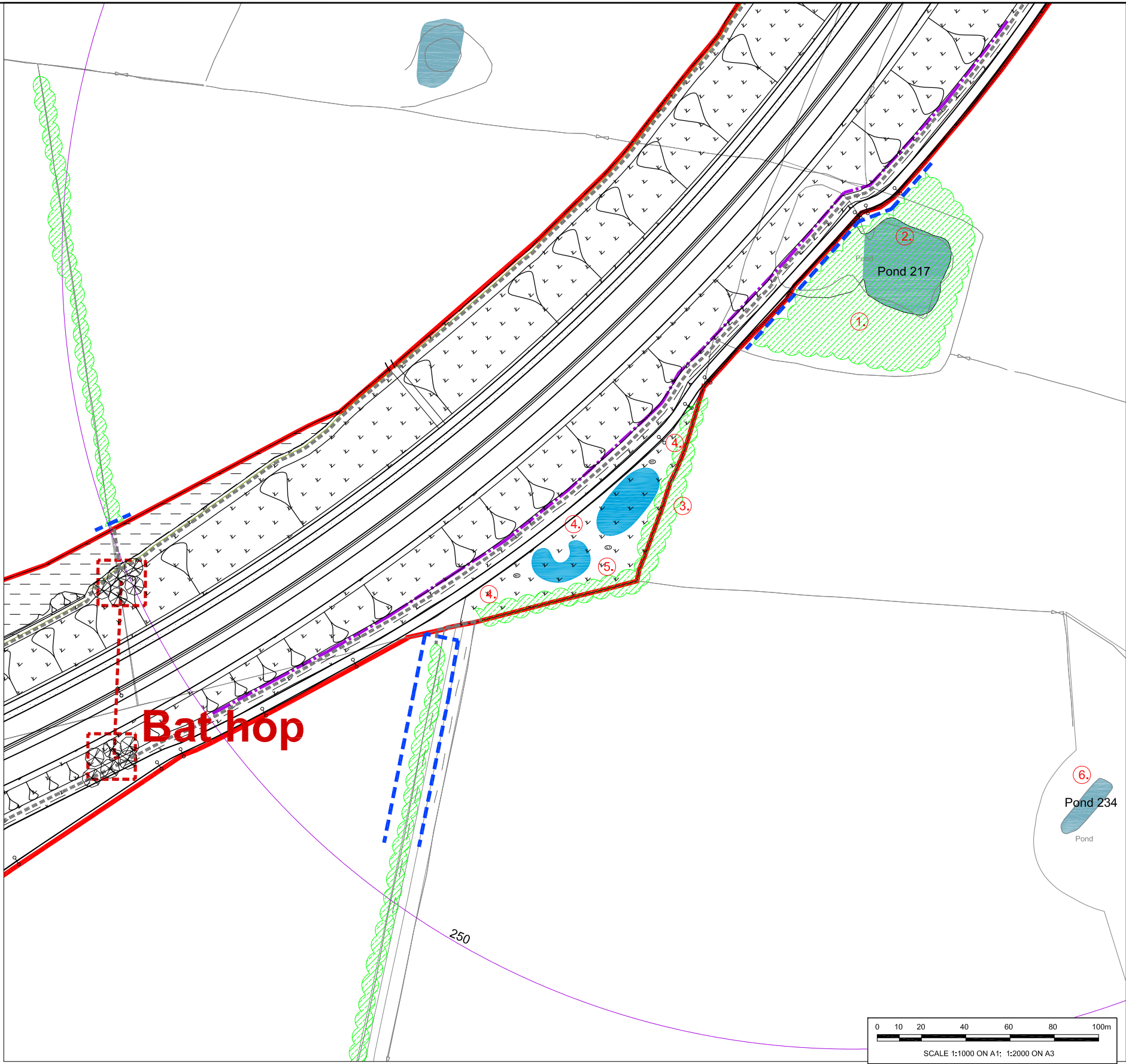
- ① Amphibian tunnel: 1m x 0.75m to provide access between the woodland and the breeding pond
- ② One way newt fencing to keep newts off the road and guide them to the underpass
- ③ Woodland to be protected and retained
- ④ Two log piles 1.5m x 1m x 1m will be provided within the vicinity of pond 223



						Client:		Cheshire East Council		STOCKPORT METROPOLITAN BOROUGH COUNCIL		MANCHESTER CITY COUNCIL		Title:	
						Project:		carillion		MORGAN SINDALL		A6 TO MANCHESTER AIRPORT RELIEF ROAD		FIGURE E3.1 WEST OF MACCLESFIELD ROAD	
								AECOM		Grontmij				META POPULATION	
														HABITAT CREATION RESTORATION	
														& ENHANCEMENT MEASURES	
														Drawn: HCD	
														Checked: BJ	
														Approved: LMK	
														Scale: 1:800	
														Date: 13.08.14	
														Date: 13.08.14	
														Date: 15/08/14	
														Original drawing size: 841 x 594 - A1	
														Drawing No. A6MARR-0-W-30-003-FI-312	
														Rev: P1	

NOTES:

1. Area of woodland/scub around pond 217 to be retained and thinned
2. Pond 217 to be reduced in size and remodelled
3. Existing hedgerow to be protected and retained
4. Hibernation mounds 2m length x 1m width x 1m height
5. Log piles to be provided as suitable refuges 1.5m length x 1m width x 1m height
6. Pond 234 to be enhanced and two hibernation mounds provided.
Location to be confirmed on site



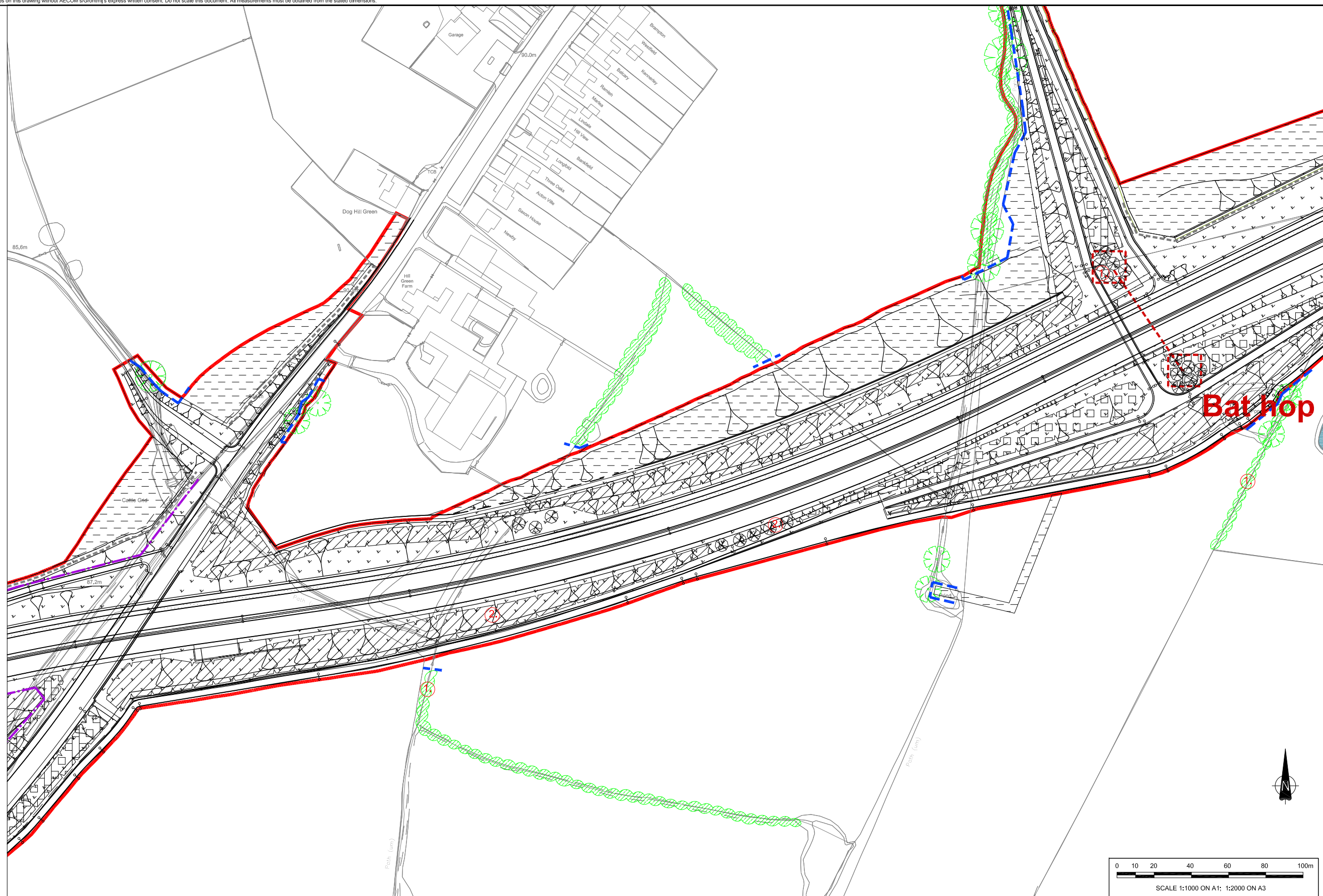
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	ENG	CAT II	APP'D

EXISTING FEATURES	PROPOSED FEATURES	VEGETATION PROTECTION
<div>Existing Vegetation: Trees and significant areas of existing mature woodland/shrub cover</div> <div>Existing Watercourses</div> <div>Existing Ponds</div> <div>Japanese Knotweed</div>	<div>LE 1.1 Amenity Grassland</div> <div>LE 1.3 Species Rich (or Conservation) Grassland</div> <div>LE 1.6 Open Grassland</div> <div>LE 1.7 Agricultural Hardback</div> <div>LE 2.1 Woodland</div> <div>LE 2.4 Linear Belts of Shrubs & Trees</div> <div>LE 2.6 Shrubs</div> <div>LE 2.7 Individual Trees</div>	<div>LE 4.4 Native Species Hedgerows with Trees</div> <div>Proposed Watercourse Diversions</div> <div>Proposed Ponds: pond creation for Great Crested Newt mitigation and habitat improvement</div> <div>Proposed Ponds: drainage attenuation ponds</div> <div>Proposed Ecological Features: bats hóp and mammal crossings</div> <div>Proposed Environmental Barrier</div> <div>CPO Boundary: land to be bought under Compulsory Purchase Order for road construction</div> <div>Tree protection fencing and construction exclusion zone</div> <div>GCH MITIGATION</div> <div>GCH fencing</div>























Client:		 Cheshire East Council		 STOCKPORT METROPOLITAN BOROUGH COUNCIL		 MANCHESTER CITY COUNCIL		Title: FIGURE E3.1 SOUTH OF MILL HILL HOLLOW META- POPULATION HABITAT CREATION, RESTORATION & ENHANCEMENT MEASURES	
 carillion				Project: A6 TO MANCHESTER AIRPORT RELIEF ROAD					
 MORGAN SINDALL									
 AECOM				 Grontmij				Drawn: HCD Checked: BJ Approved: LMK Scale: 1:700	
Date: 13/08/14				Date: 13/08/14				Date: 15/08/14	
Drawing No.				A6MARR-0-W-30-003-FI-313				Original drawing size: 841 x 594 - A1	
				Rev:				P1	

NOTES:

1. Area of existing hedgerow to be protected and retained
2. New area of woodland and scrub, south of the road will be available to GCN



REV.	DATE	AMENDMENT DETAILS			ORIG	CHK'D	ENG	CAT II	APP'D

EXISTING FEATURES	PROPOSED FEATURES	VEGETATION PROTECTION
 Existing Vegetation: Trees and significant areas of existing mature woodland/tree groups or significant areas of shrub cover	 LE 5.1 Amenity Grassland	 Tree protection fencing and construction exclusion Zone
 Existing Watercourses	 LE 5.3 Species Rich (or Conservation) Grassland	 GCN MITIGATION
 Existing Ponds	 LE 5.8 Open Grassland	 GCN fencing
 Japanese Knotweed	 LE 1.7 Agricultural Hardback	
	 LE 2.1 Woodland	
	 LE 2.4 Linear Belts of Shrubs & Trees	
	 LE 2.5 Shrubs	
	 LE 2.7 Individual Trees	
	 LE 4.4 Native Species Hedgerows with Trees	
	 Proposed Watercourse Diversion	
	 Proposed Ponds: pond creation for Great Crested Newt mitigation and habitat improvement.	
	 Proposed Ponds: drainage attenuation ponds.	
	 Proposed Ecological Features: bats, hedge and external coverings	
	 Proposed Environmental Barrier	
	 CPO Boundary: land to be bought under Compulsory Purchase Order for road construction.	

Client:



carillion **MORGAN SINDALL**
AECOM  **Grontmij**

	Project:
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A6 TO MANCHESTER AIRPORT
RELIEF ROAD

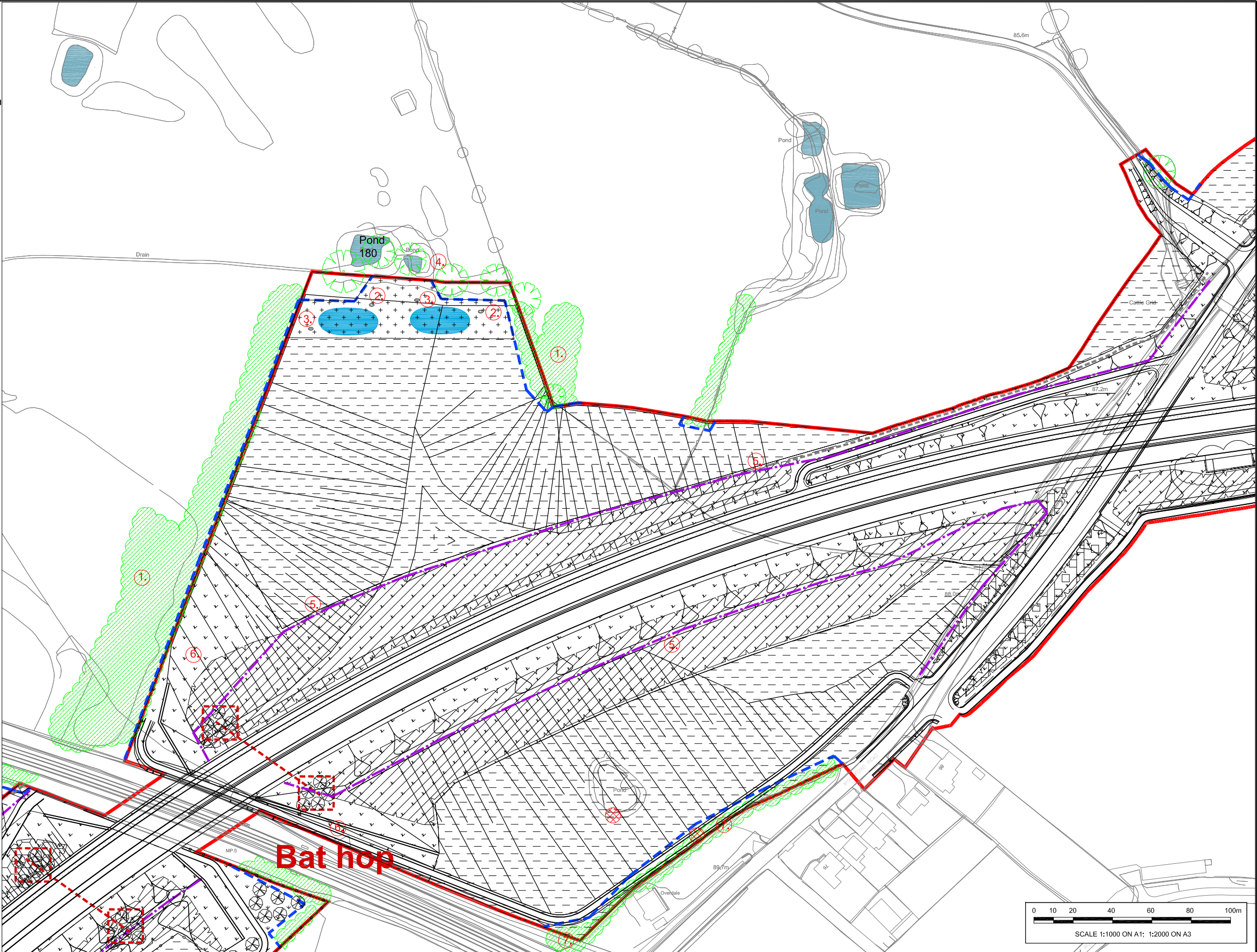
	Title
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FIGURE E3.1 HILL GREEN FARM
META- POPULATION
HABITAT CREATION, RESTORATION
& ENHANCEMENT MEASURES

Drawn: HCD	Checked: BJ	Approved: LMK	Scale: 1:850
Date: 13/08/14	Date: 13/08/14	Date: 18/08/14	Original drawing size: 841 x 594 - A
Drawing No. A6MARR-0-W-30-003-FI-314			Rev

NOTES:

- ① Areas of woodland/trees to be protected and retained
- ② Hibernation mounds 2m length x 2m width x 1m height
- ③ Log piles to be placed adjacent to ponds: 1.5m length x 1m width x 1m height
- ④ Two hibernation mounds to be placed within the vicinity of pond 180. Location to be confirmed on site
- ⑤ One way newt fencing to keep newts off the new road. One-way to allow any newts that do gain access an escape route
- ⑥ Area of grassland to be created along the access track to provide a green corridor for newts to gain access to both sides of the road
- ⑦ Area of hedgerow to be protected and retained



REV.	DATE	AMENDMENT DETAILS	ORIG	CHKD	ENG	CAT II	APPD

EXISTING FEATURES	PROPOSED FEATURES	VEGETATION PROTECTION
<ul style="list-style-type: none">Existing Vegetation: Trees and significant areas of existing mature woodland/tree groups or significant areas of shrub coverExisting WatercoursesExisting PondsJapanese Knotweed	<ul style="list-style-type: none">LE 1.1 Amenity GrasslandLE 1.3 Species Rich (or Conservation) GrasslandLE 1.8 Open GrasslandLE 1.7 Agricultural HardbackLE 2.1 WoodlandLE 2.4 Linear Belts of Shrubs & TreesLE 2.6 ShrubsLE 2.7 Individual Trees	<ul style="list-style-type: none">LE 4.4 Native Species Hedgerows with TreesProposed Watercourse DiversionsProposed Ponds: pond creation for Great Crested Newt mitigation and habitat improvementProposed Ponds: drainage attenuation pondsProposed Ecological Features: bat hops and mammal crossingsProposed Environmental BarrierCPO Boundary: land to be bought under Compulsory Purchase Order for road construction
		<ul style="list-style-type: none">Tree protection fencing and construction exclusion zoneGCH MITIGATIONGCH fencing

Client:



Project:



A6 TO MANCHESTER AIRPORT
RELIEF ROAD

Title:

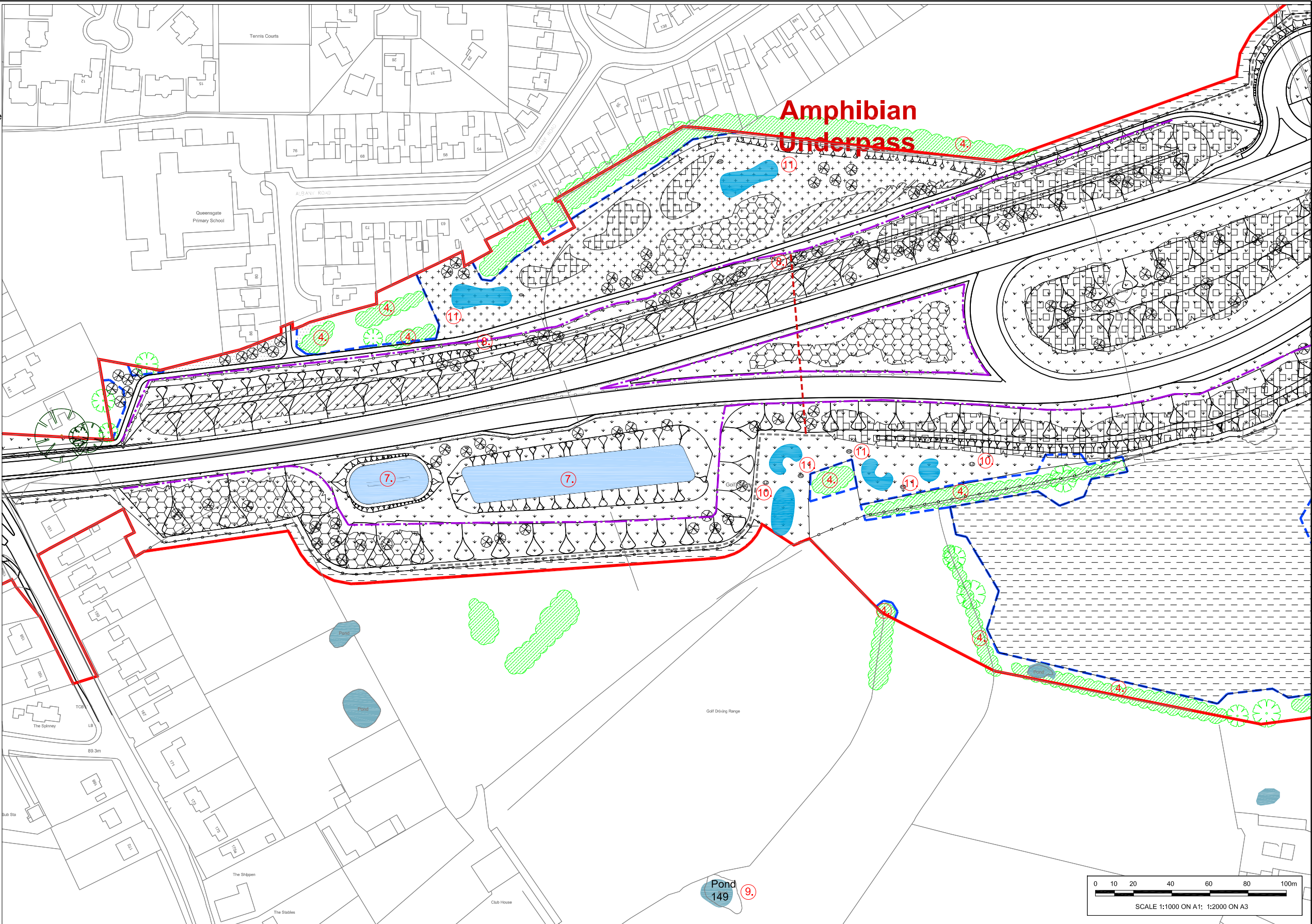
FIGURE E3.1
WOODFORD ROAD META- POPULATION
HABITAT CREATION, RESTORATION
AND ENHANCEMENT MEASURES

Drawn: HCD	Checked: BJ	Approved: LMK	Scale: 1:800
Date: 13/08/14	Date: 13/08/14	Date: 18/08/14	Original drawing size: 841 x 594 - A1
Drawing No.	A6MARR-0-W-30-003-FI-315		Rev: P1

\\ukedils01\ShareNet\Data\U2011\proj\114172 A6 MARR Development\03 Design\07 Landscape\GCN Licence Figures\E3.1 Habitat Creation, Restoration and Enhancement Measures.dwg

NOTES:

7. One-way newt fencing around the attenuation pond to restrict newt access to this pond
8. Newt fencing placed along the noise fencing to prevent newts gaining access to the road
9. Two hibernation mounds to be provided in the vicinity of pond 149. Location to be confirmed on site
10. Log piles to be placed adjacent to ponds: 2m length x 2m width x 1m height
11. Hibernation mounds: 2m length x 2m width x 1m height



REV.	DATE	AMENDMENT DETAILS	ORIG	CHKD	ENG	CAT II	APPD

EXISTING FEATURES	PROPOSED FEATURES	VEGETATION PROTECTION
<ul style="list-style-type: none">Existing Vegetation: Trees and significant areas of existing mature woodland/shrub groups or significant areas of shrub coverExisting WatercoursesExisting PondsJapanese Knotweed	<ul style="list-style-type: none">LE 1.1 Annuity GrasslandLE 1.3 Species Rich (or Conservation) GrasslandLE 1.8 Open GrasslandLE 1.7 Agricultural HardbackLE 2.1 WoodlandLE 2.4 Linear Belts of Shrubs & TreesLE 2.6 ShrubLE 2.7 Individual Trees	<ul style="list-style-type: none">LE 4.4 Native Species Hedgerows with TreesProposed Watercourse DiversionsProposed Ponds: pond creation for Great Crested Newt mitigation and habitat improvementProposed Ponds: drainage attenuation pondsProposed Ecological Features: bats haps and mammal crossingsProposed Environmental BarrierCPO Boundary: land to be bought under Compulsory Purchase Order for road construction
		<ul style="list-style-type: none">Tree protection fencing and construction exclusion zoneGCH MITIGATIONGCH fencing

Client:

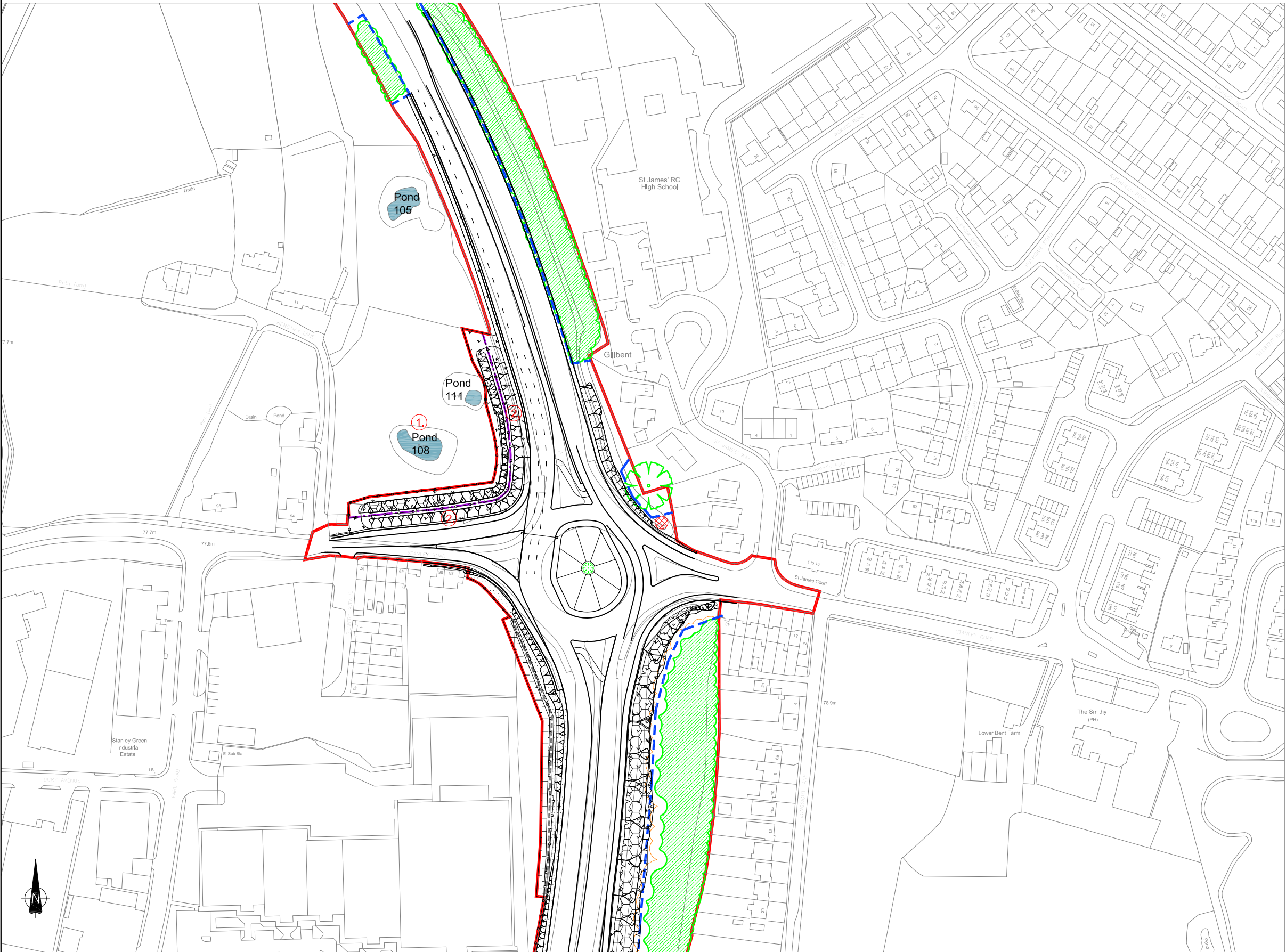
Project:

**A6 TO MANCHESTER AIRPORT
RELIEF ROAD**

Title:

FIGURE E3.1
BRAMHALL OIL TERMINAL META POPULATION HABITAT CREATION
RESTORATION AND ENHANCEMENT MEASURES
SHEET 2 OF 2

Drawn: HCD	Checked: BJ	Approved: LMK	Scale: 1:1000
Date: 13/08/14	Date: 13/08/14	Date: 18/08/14	Original drawing size: 841 x 594 - A1
Drawing No. A6MARR-0-W-30-003-FI-317			Rev: P1



- NOTES:
- Two hibernation mounds and two log piles to be provided within this area. Location to be confirmed on site
 - One-way newt fencing to keep newts off the road. One-way to allow any newts that do gain access, an escape route

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NOTES:

1. Area of vegetation to be protected and retained (woodland/scrub/hedgerows)

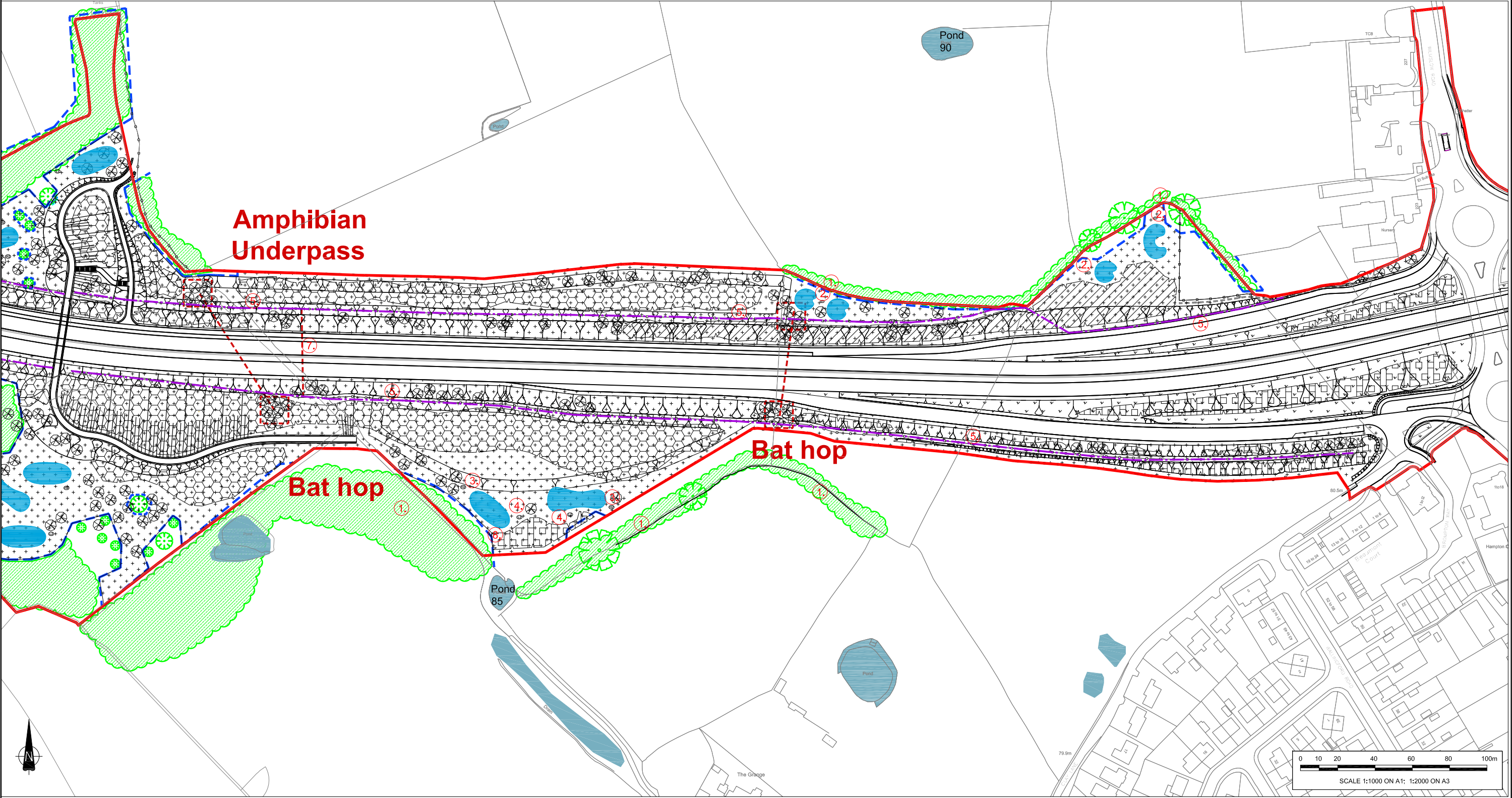
2. Hibernation mounds: 2m length x 1m width x 1m height





















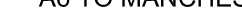
3. Hibernation mounds: 2m length x 2m width x 1m height
4. Log piles to be provided as suitable refugia

5. Newt fences placed along noise barrier to keep newts off the road

6. One-way newt fencing to keep newts off the road. One-way to allow any newts that gain access a means to escape
7. Amphibian tunnel to provide access to habitat on both sides of the road

8. Two Hibernation mounds to be provided within the receptor site. Location to be agreed on site



								<div><div><div>EXISTING FEATURES</div><div><div> Existing Vegetation: Trees and significant areas of existing mature woodland/hedge groups or significant areas of shrub cover</div><div> Existing Watercourses</div><div> Existing Ponds</div><div> Japanese Knotweed</div></div></div><div><div>PROPOSED FEATURES</div><div><div> LE 1.1 Amenity Grassland</div><div> LE 1.3 Species Rich (or Conservation) Grassland</div><div> LE 1.6 Open Grassland</div><div> LE 1.7 Agricultural Handback</div><div> LE 2.1 Woodland</div><div> LE 2.4 Linear Belts of Shrubs & Trees</div><div> LE 2.6 Shrubs</div><div> LE 2.7 Individual Trees</div></div><div><div>Proposed Watercourse Dimensions</div><div>Proposed Ponds: pond creation for Great Crested Newt mitigation and habitat improvement</div><div>Proposed Ponds: drainage attenuation ponds</div><div>Proposed Ecological Features: bats hops and mammal crossings</div><div>Proposed Environmental Barrier</div><div>CPO Boundary: land to be bought under Compulsory Purchase Order for road construction</div></div><div><div>Tree protection fencing and construction exclusion zone</div><div><div>GCH MITIGATION</div><div> Tree protection fencing and construction exclusion zone</div><div> GCH fencing</div></div></div></div></div>										Client:		<div><div></div><div></div><div></div></div>			Title:		FIGURE E3.1 WEST OF B5368 META - POPULATION HABITAT CREATION, RESTORATION AND ENHANCEMENT MEASURES			
								<div><div></div><div></div><div></div><div></div></div>			Project:		A6 TO MANCHESTER AIRPORT RELIEF ROAD															
											Drawn: HCD		Checked: BJ		Approved: LMK		Scale: 1:1000											
											Date: 13/08/14		Date: 13/08/14		Date: 18/08/14		Original drawing size: 841 x 594 - A1											
											Drawing No.		A6MARR-0-W-30-003-FI-319		Rev:		P1											
REV.	DATE	AMENDMENT DETAILS	ORIG	CHKD	ENG	CAT II	APPD																					

NOTES:

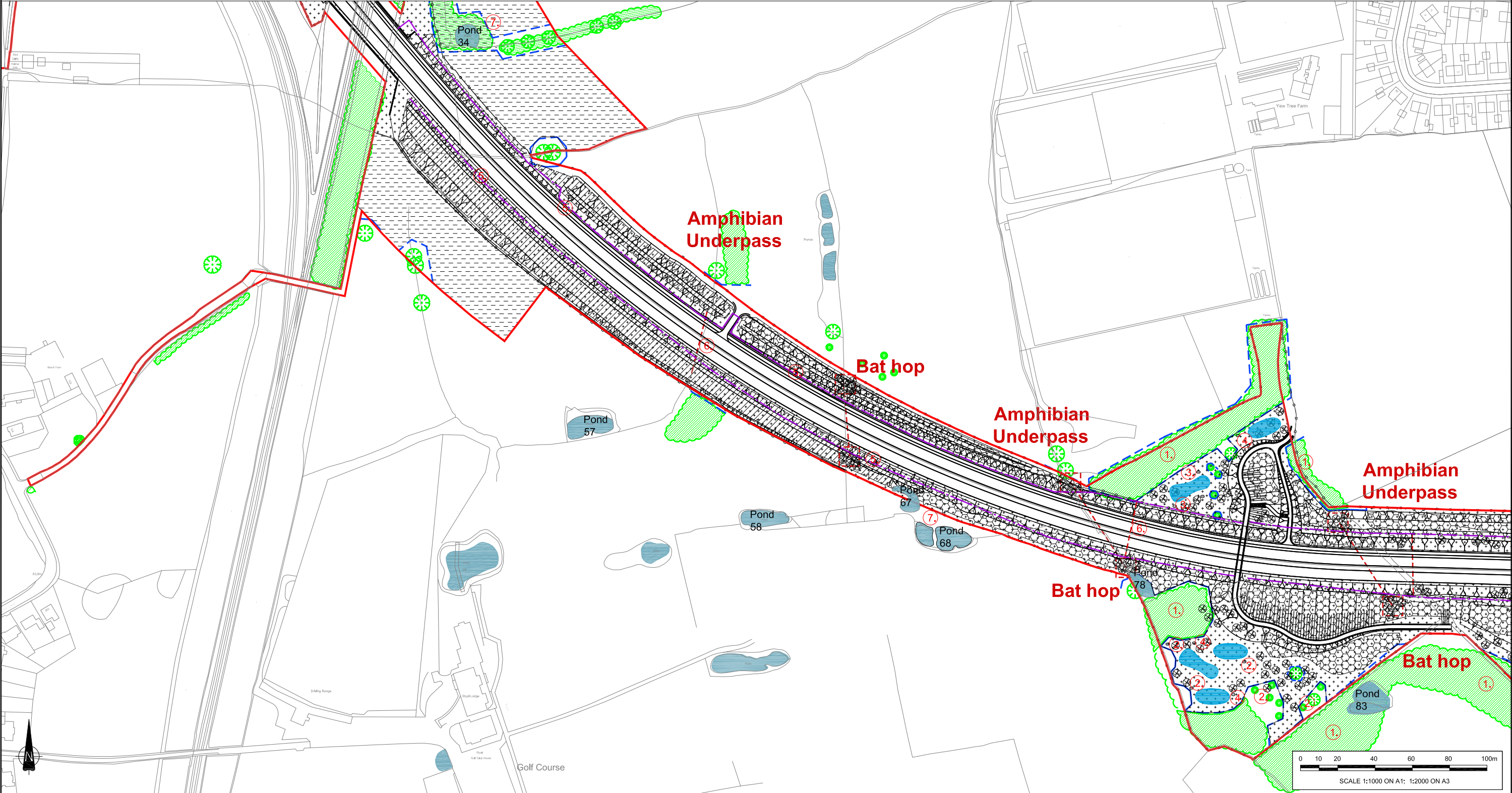
1. Areas of woodland to be protected and retained

2. Existing grassland and scattered trees to be retained

3. Hibernation mounds: 2m length x 2m width x 1m height
4. Log piles to be provided as suitable refugia

5. One-way newt fencing to keep newts off the road and guide them to the underpasses. One-way to allow any newts that gain access a means to escape

6. Amphibian tunnel to provide access to habitat on both sides of the road
7. Four hibernation mounds to be provided within the receptor site. Location to be agreed on site



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	ENG	CAT II	APP'D

EXISTING FEATURES

- Existing Vegetation: Trees and significant areas of existing mature woodland/shrub groups or significant areas of shrub cover
- Existing Watercourses
- Existing Ponds
- Japanese Knotweed

PROPOSED FEATURES

- LE 1.1 Arterial Grassland
- LE 1.3 Species Rich (or Conservation) Grassland
- LE 1.6 Open Grassland
- LE 1.7 Agricultural Handback
- LE 2.1 Woodland
- LE 2.4 Linear Belts of Shrubs & Trees
- LE 2.6 Shrubs
- LE 2.7 Individual Trees

PROPOSED WATERCOURSE DIVERGENCE

- Proposed Ponds: pond creation for Great Crested Newt mitigation and habitat improvement
- Proposed Ponds: drainage attenuation ponds
- Proposed Ecological Features: bat hops and mammal crossings
- Proposed Environmental Barrier
- CPO Boundary: land to be bought under Compulsory Purchase Order for road construction

GCH MITIGATION

- Tree protection fencing and construction exclusion zone
- GCH fencing

Client:



Project:

A6 TO MANCHESTER AIRPORT
RELIEF ROAD

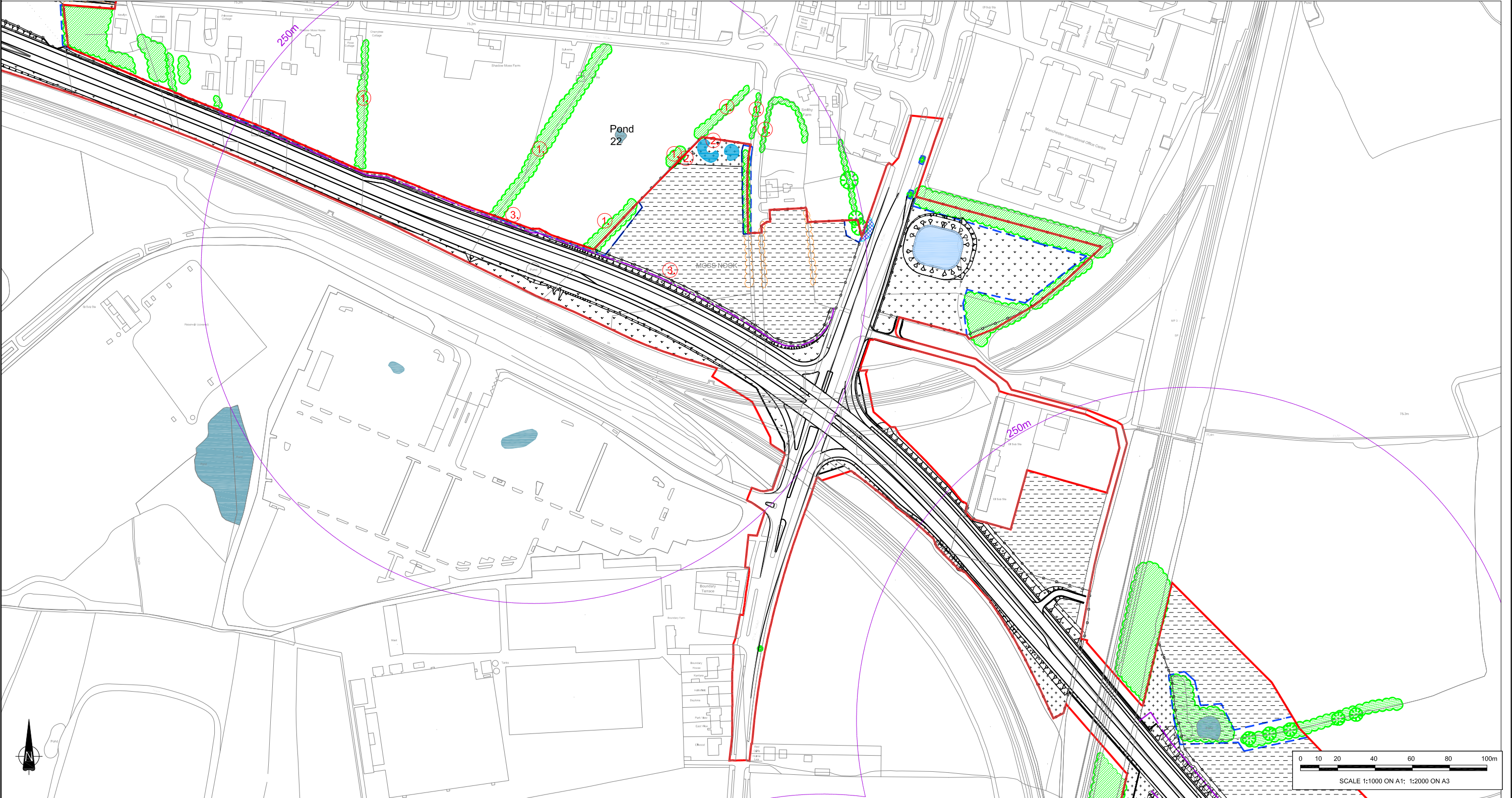
Title:

FIGURE E3.1
STYAL GOLF COURSE META - POPULATION
HABITAT CREATION, RESTORATION
AND ENHANCEMENT MEASURES

Drawn: HCD	Checked: BJ	Approved: LMK	Scale: 1:1400
Date: 13/08/14	Date: 13/08/14	Date: 18/08/14	Original drawing size: 841 x 594 - A1
Drawing No. A6MARR-0-W-30-003-FI-320	Rev: P1		

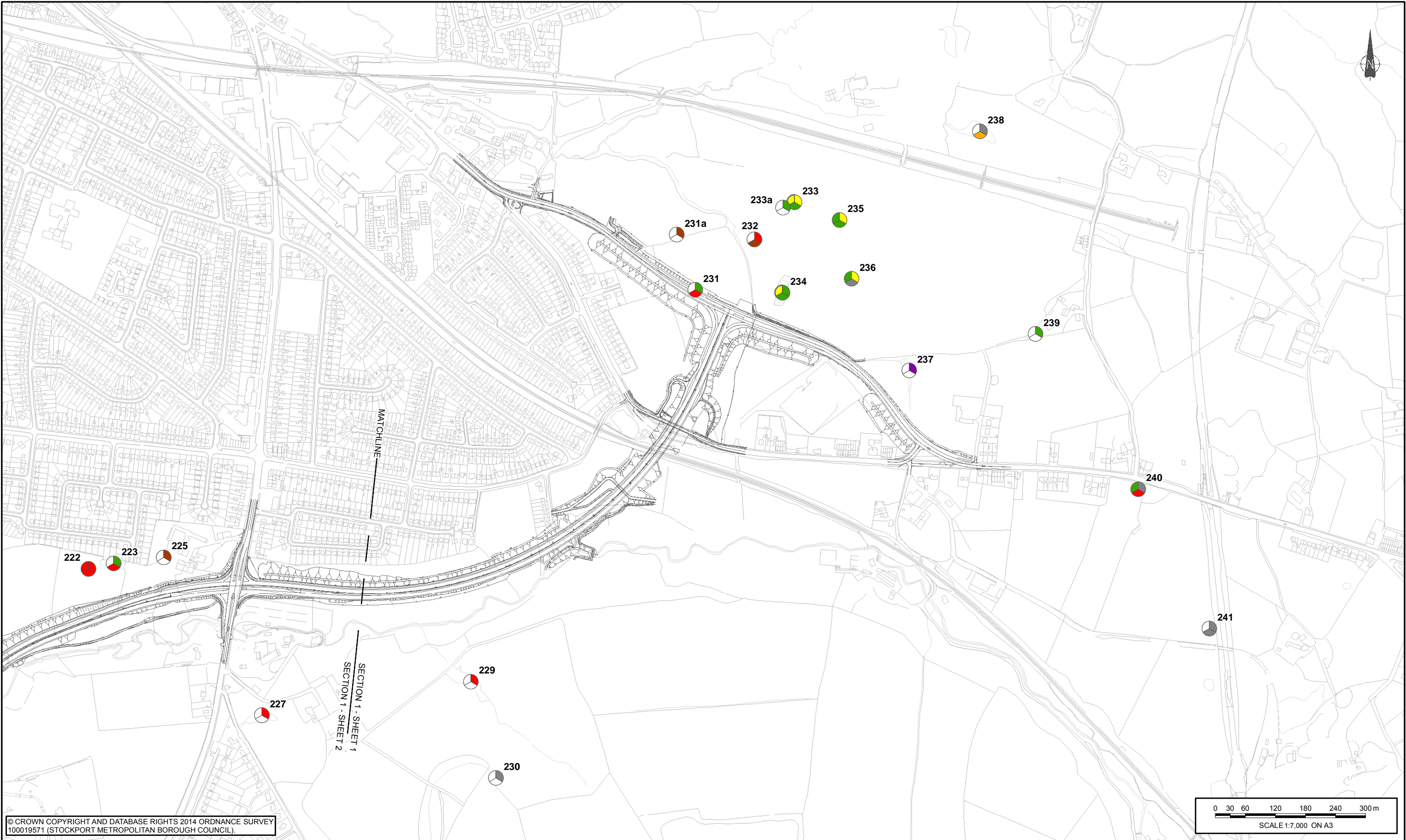
NOTES:

- 1. Hedgerows to be protected and retained
- 2. Hibernation mounds: 2m length x 2m width x 1m high
- 3. One-way newt fencing to keep newts off the road. One-way to allow any newts that gain access a means to escape



							<p>EXISTING FEATURES</p> <ul style="list-style-type: none">Existing Vegetation: Trees and adjacent areas of existing mature woodland/shrub groups or significant areas of shrub coverExisting WatercoursesExisting PondsJapanese Knotweed		<p>PROPOSED FEATURES</p> <ul style="list-style-type: none">LE 1.1 Amenity GrasslandLE 1.3 Species Rich (or Conservation) GrasslandLE 1.6 Open GrasslandLE 1.7 Agricultural HardbackLE 2.1 WoodlandLE 2.4 Linear Belts of Shrubs & TreesLE 2.6 ShrubsLE 2.7 Individual Trees		<p>Proposed Watercourse Diversions</p> <p>Proposed Ponds: pond creation for Great Crested Newt mitigation and habitat improvement</p> <p>Proposed Ponds: drainage attenuation ponds</p> <p>Proposed Ecological Features: bats hops and mammal crossings</p> <p>Proposed Environmental Barrier</p> <p>CPO Boundary: land to be bought under Compulsory Purchase Order for road construction</p>		<p>Tree protection fencing and construction exclusion zone</p> <p>GON MITIGATION</p> <p>GON fencing</p>		<p>Client:</p> <div><div><div>Cheshire East Council</div><div>carillion</div><div>AECOM</div></div><div><div>STOCKPORT METROPOLITAN BOROUGH COUNCIL</div><div>MORGAN SINDALL</div><div>Grontmij</div></div><div><div>MANCHESTER CITY COUNCIL</div></div></div>		<p>Project:</p> <p>A6 TO MANCHESTER AIRPORT RELIEF ROAD</p>		<p>Title:</p> <p>FIGURE E3.1 MOSS NOOK META - POPULATION HABITAT CREATION, RESTORATION AND ENHANCEMENT MEASURES</p>	
													<p>Drawn: HCD</p> <p>Checked: BJ</p> <p>Approved: LMK</p> <p>Scale: 1:1400</p>		<p>Date: 13/08/14</p> <p>Date: 13/08/14</p> <p>Date: 18/08/14</p> <p>Original drawing size: 841 x 594 - A1</p>		<p>Drawing No. A6MARR-0-W-30-003-FI-321</p> <p>Rev: P1</p>			
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	ENG	CAT II	APP'D													

Appendix D



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SCALE 1:7,000 ON A3

LEGEND


2010 SURVEY 2014 SURVEY

2013 SURVEY

ABSENT GCN EGGS SMALL POPULATION

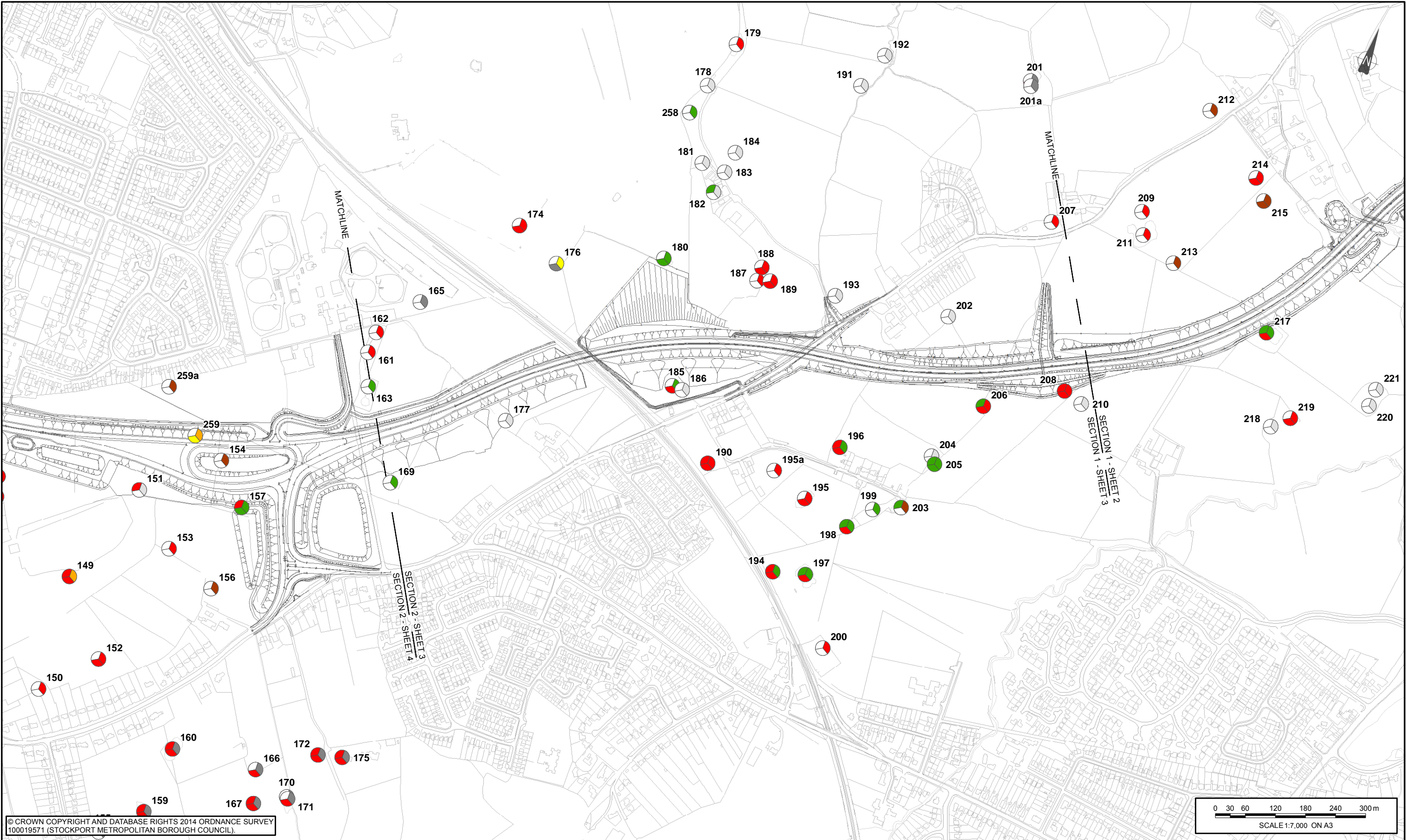
DOES NOT EXIST MEDIUM POPULATION UNSUITABLE

DRY OUTSIDE SCOPE NOT SURVEYED



Title:			
INTERNAL MAP GCN RESULTS SHEET 2 OF 8			
Drawn: AC	Checked: JK	Approved: LMK	Scale: 1:7,000
Date: 26.08.14	Date: 26.08.14	Original drawing scale: 420 x 297 - A3	
Drawing No.			Rev:
INTERNAL MAP - GCN RESULTS			P1

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REV.		DATE	AMENDMENT DETAILS	ORIG	CHK'D	GIS	CAT II	APP'D
P1		26.08.14	PRELIMINARY ISSUE	AC	JK	AS		LMK

LEGEND

2010 SURVEY 2014 SURVEY

2013 SURVEY

● ABSENT ● GCN EGGS ● SMALL POPULATION

○ DOES NOT EXIST ● MEDIUM POPULATION ● UNSUITABLE

● DRY ● OUTSIDE SCOPE ○ NOT SURVEYED

Client:

Cheshire East Council **STOCKPORT METROPOLITAN BOROUGH COUNCIL** **MANCHESTER CITY COUNCIL**

Project:

A6 TO MANCHESTER AIRPORT RELIEF ROAD

Title:

INTERNAL MAP GCN RESULTS SHEET 3 OF 8

Drawn: AC	Checked: JK	Approved: LMK	Scale: 1:7,000
Date: 26.08.14	Date: 26.08.14	Date: 26.08.14	Original drawing scale: 420 x 297 - A3
Drawing No.:			Rev:
INTERNAL MAP - GCN RESULTS			P1

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P:\UKMCR1-TI\projects\Highways - A6 MARR Design\03 EXECUTION\15 Drawings\05 Environment & Ecology\GIS\02 Maps\Internal Maps\2010,2013,2014 GCN Survey Results.mxd

P:\UKMCR1-TI\projects\Highways - A6 MARR Design\03 EXECUTION\15 Drawings\05 Environment & Ecology\GIS\02 Maps\Internal Maps\2010,2013,2014 GCN Survey Results.mxd

[illegible]

Title:			
<h1>INTERNAL MAP</h1> <h2>GCN RESULTS</h2> <h2>SHEET 8 OF 8</h2>			
Drawn: AC	Checked: JK	Approved: LMK	Scale: 1:7,000
Date: 26.08.14	Date: 26.08.14	Date: 26.08.14	Original drawing scale: 420 x 297 - A3
Drawing No.			Rev:
INTERNAL MAP - GCN RESULTS			P1