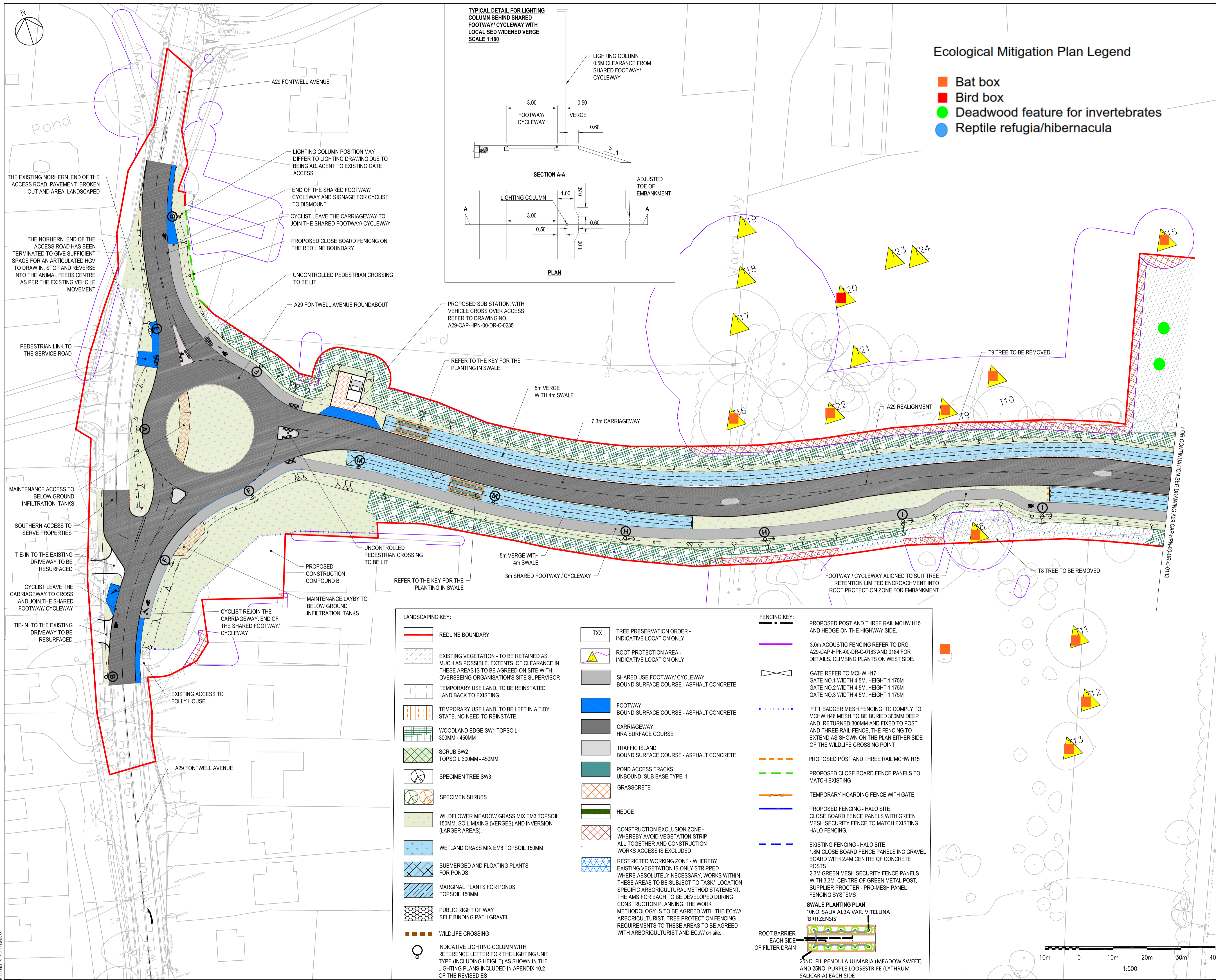


A29 Realignment – Phase 1

ECOLOGICAL MITIGATION PLAN

Ecological Mitigation Plan detailing the location of Ecological Enhancement Measures for incorporation into the Landscape Design

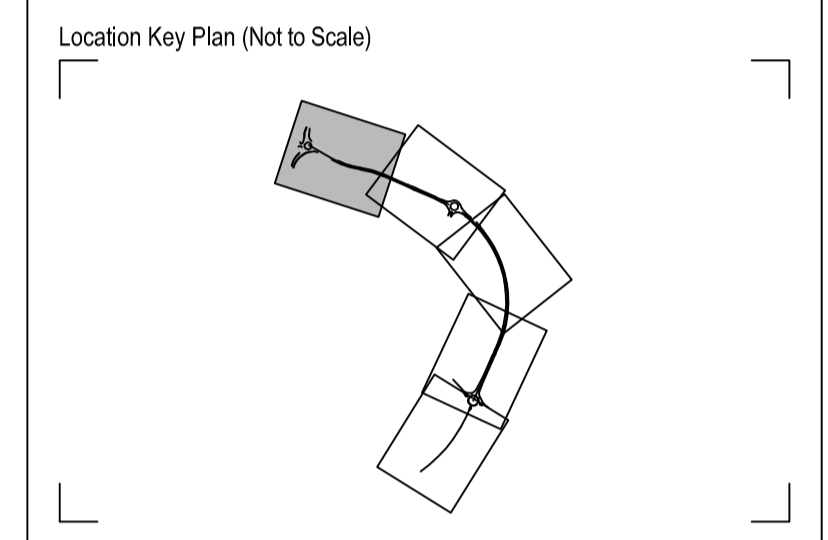
Reference: A29 Ecological Enhancement Plan June 2022 (4 pages)



Ecological Mitigation Plan Legend

- Bat box
- Bird box
- Deadwood feature for invertebrates
- Reptile refugia/hibernacula

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - EARTHWORKS SIDE SLOPES ARE 1 IN 3 WHERE POSSIBLE. IN AREAS LIMITED BY LAND OR ENVIRONMENTAL RESTRICTIONS, STEEPER SLOPES HAVE BEEN GENERATED.
 - REFER TO DRAWING A29-CAP-HPN-00-DR-C-0132 FOR THE TYPICAL DETAIL FOR LIGHTING COLUMN BEHIND SHARED FOOTWAY/ CYCLEWAY WITH LOCALISED WIDENED VERGE.
 - LIGHTING COLUMNS SET BACK 0.5M BEHIND THE FOOTWAY/ CYCLEWAY.
 - REFER TO THE ECOLOGICAL MITIGATION PLAN FOR THE SCHEME ECOLOGICAL ENHANCEMENT MEASURES REQUIRED.



Rev	Drawn	Checked	App'd	Description	Date
P13	KS	KS	AB	LABELS FOR T8 AND T9 AMENDED	15.06.22
P12	JB	KS	KS	NOTE 5 ADDED AND KEY AMENDED	18.03.22
P11	AS	KS	AB	LANDSCAPING KEY AMENDED	10.03.22
P10	JB	KS	AB	BADGER FENCING EXTENDED	25.02.22
P09	JB	KS	AB	LIGHTING LAYOUT UPDATED AND KEY AMENDED FOR SPECIMEN SHRUBS. POST AND RAIL FENCE SECTION ADDED ON SOUTH SIDE.	18.02.22
P08	KS	KS	AB	LIGHTING COLUMNS OFFSET TO BE 0.5M FROM THE SHARED FOOTWAY/ CYCLEWAY. TYPICAL DETAIL ADDED FOR THE LIGHTING COLUMN BY VERGE.	10.12.21
P07	KS	KS	AB	KEY AMENDED AND LABELS ADDED	23.04.21
P06	JD	KS	AB	REDLINE BOUNDARY UPDATED. LANDSCAPING AND FENCING DETAILS ADDED	01.04.21
P05	LR	KS	AB	LABELS AMENDED	21.10.20
P04	LR	KS	AB	HIGHWAY LAYOUT AND REDLINE BOUNDARY UPDATED	16.10.20
P03	PD	KS	AB	KEY UPDATED	03.09.20
P02	LR	KS	AB	LABELS ADDED / AMENDED	28.08.20
P01	PD	DAH	KS	FIRST ISSUE	12.06.20

Purpose of Issue **S0**

Classification **Public**



Project **A29 Realignment Scheme**

Drawing **Site Plan Sheet 1 of 5**

Scale @ A1	Drawn	Checked	Approved
1:500	PD	DAH	KS

Project No.	Date
CS099505	12.06.20

Drawing Identifier	BS1192 Compliant
A29-CAP-HPN-00-DR-C-0132	P13



Capita House, Wood Street, East Grinstead, RH19 1UU
01342 327161
www.capitaproperty.co.uk
Capita Property and Infrastructure Ltd.

LANDSCAPING KEY:

- REDLINE BOUNDARY
- EXISTING VEGETATION - TO BE RETAINED AS MUCH AS POSSIBLE. EXTENTS OF CLEARANCE IN THESE AREAS IS TO BE AGREED ON SITE WITH OVERSEEING ORGANISATION'S SITE SUPERVISOR
- TEMPORARY USE LAND. TO BE REINSTATED LAND BACK TO EXISTING
- TEMPORARY USE LAND. TO BE LEFT IN A TIDY STATE. NO NEED TO REINSTATE
- WOODLAND EDGE SW1 TOPSOIL 300MM - 450MM
- SCRUB SW2 TOPSOIL 300MM - 450MM
- SPECIMEN TREE SW3
- SPECIMEN SHRUBS
- WILDFLOWER MEADOW GRASS MIX EM3 TOPSOIL 150MM. SOIL MIXING (VERGES) AND INVERSION (LARGER AREAS).
- WETLAND GRASS MIX EM8 TOPSOIL 150MM
- SUBMERGED AND FLOATING PLANTS FOR PONDS
- MARGINAL PLANTS FOR PONDS TOPSOIL 150MM
- PUBLIC RIGHT OF WAY SELF BINDING PATH GRAVEL
- WILDLIFE CROSSING
- INDICATIVE LIGHTING COLUMN WITH REFERENCE LETTER FOR THE LIGHTING UNIT TYPE (INCLUDING HEIGHT) AS SHOWN IN THE LIGHTING PLANS INCLUDED IN APPENDIX 10.2 OF THE REVISED ES

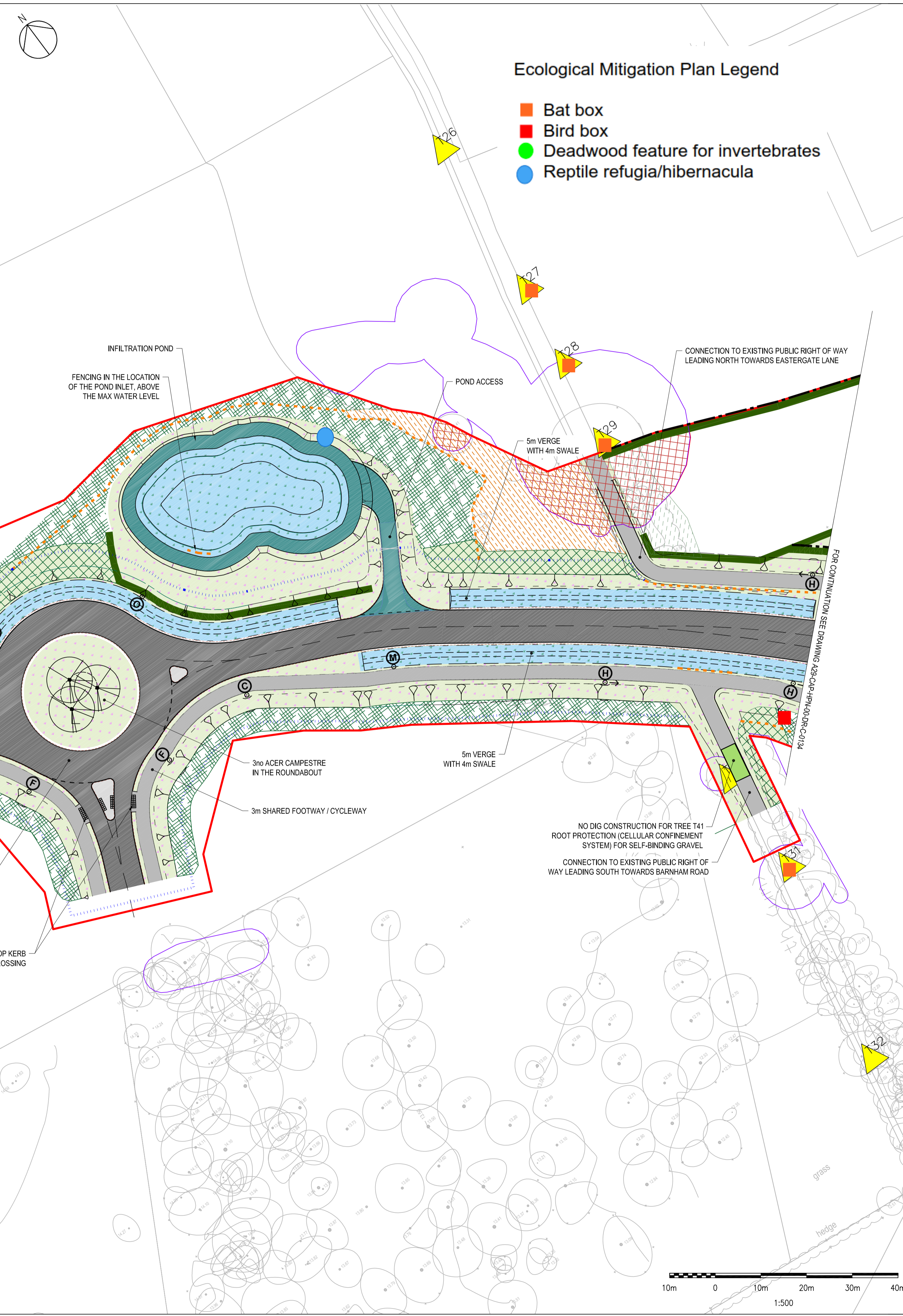
FENCING KEY:

- PROPOSED POST AND THREE RAIL MCHW H15 AND HEDGE ON THE HIGHWAY SIDE.
- 3.0m ACOUSTIC FENCING REFER TO DRG A29-CAP-HPN-00-DR-C-0183 AND 0184 FOR DETAILS. CLIMBING PLANTS ON WEST SIDE.
- GATE REFER TO MCHW H17 GATE NO.1 WIDTH 4.5M, HEIGHT 1.175M GATE NO.2 WIDTH 4.5M, HEIGHT 1.175M GATE NO.3 WIDTH 4.5M, HEIGHT 1.175M
- FT 1 BADGER MESH FENCING, TO COMPLY TO MCHW H46 MESH TO BE BURIED 300MM DEEP AND RETURNED 300MM AND FIXED TO POST AND THREE RAIL FENCE. THE FENCING TO EXTEND AS SHOWN ON THE PLAN EITHER SIDE OF THE WILDLIFE CROSSING POINT
- PROPOSED POST AND THREE RAIL MCHW H15
- PROPOSED CLOSE BOARD FENCE PANELS TO MATCH EXISTING
- TEMPORARY HOARDING FENCE WITH GATE
- PROPOSED FENCING - HALO SITE CLOSE BOARD FENCE PANELS WITH GREEN MESH SECURITY FENCE TO MATCH EXISTING HALO FENCING.
- EXISTING FENCING - HALO SITE 1.8M CLOSE BOARD FENCE PANELS INC GRAVEL BOARD WITH 2.4M CENTRE OF CONCRETE POSTS
- 2.3M GREEN MESH SECURITY FENCE PANELS WITH 3.3M CENTRE OF GREEN METAL POST. SUPPLIER PROCTER - PRO-MESH PANEL FENCING SYSTEMS
- EXISTING FENCING - HALO SITE 1.8M CLOSE BOARD FENCE PANELS INC GRAVEL BOARD WITH 2.4M CENTRE OF CONCRETE POSTS
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LANDSCAPING KEY (continued):

- TXX TREE PRESERVATION ORDER - INDICATIVE LOCATION ONLY
- ROOT PROTECTION AREA - INDICATIVE LOCATION ONLY
- SHARED USE FOOTWAY/ CYCLEWAY BOUND SURFACE COURSE - ASPHALT CONCRETE
- FOOTWAY BOUND SURFACE COURSE - ASPHALT CONCRETE
- CARRIAGEWAY HRA SURFACE COURSE
- TRAFFIC ISLAND BOUND SURFACE COURSE - ASPHALT CONCRETE
- POND ACCESS TRACKS UNBOUND SUB BASE TYPE 1
- GRASSCRETE
- HEDGE
- CONSTRUCTION EXCLUSION ZONE - WHEREBY AVOID VEGETATION STRIP ALL TOGETHER AND CONSTRUCTION WORKS ACCESS IS EXCLUDED
- RESTRICTED WORKING ZONE - WHEREBY EXISTING VEGETATION IS ONLY STRIPPED WHERE ABSOLUTELY NECESSARY. WORKS WITHIN THESE AREAS TO BE SUBJECT TO TASK/ LOCATION SPECIFIC ARBORICULTURAL METHOD STATEMENT. THE AMS FOR EACH TO BE DEVELOPED DURING CONSTRUCTION PLANNING. THE WORK METHODOLOGY IS TO BE AGREED WITH THE ECOW/ ARBORICULTURIST. TREE PROTECTION FENCING REQUIREMENTS TO THESE AREAS TO BE AGREED WITH ARBORICULTURIST AND ECOW on site.
- ROOT BARRIER EACH SIDE OF FILTER DRAIN
- 25NO. FILIPENDULA ULMARIA (MEADOW SWEET) AND 25NO. PURPLE LOOSESTRIPE (LYTHRUM SALICARIA) EACH SIDE

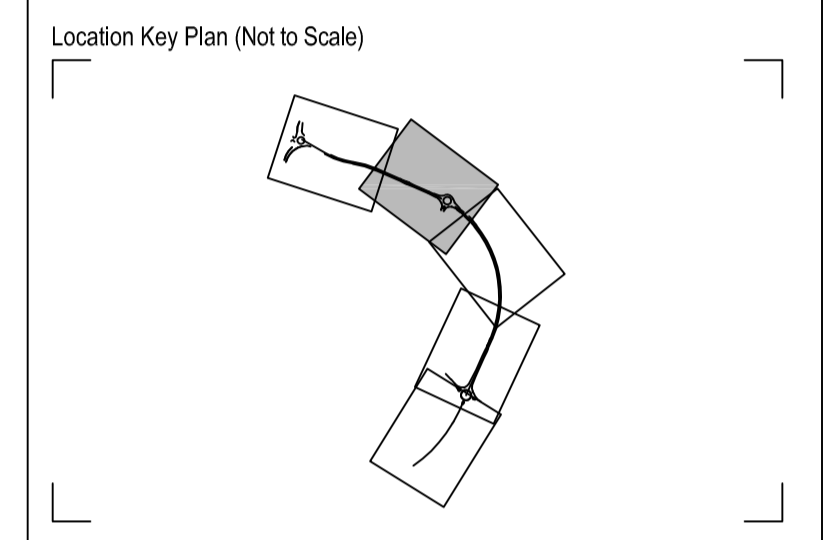
SWALE PLANTING PLAN
 10NO. SALIX ALBA VAR. VITELLINA 'BRITZENSIS'
 25NO. FILIPENDULA ULMARIA (MEADOW SWEET) AND 25NO. PURPLE LOOSESTRIPE (LYTHRUM SALICARIA) EACH SIDE



Ecological Mitigation Plan Legend

- Bat box
- Bird box
- Deadwood feature for invertebrates
- Reptile refugia/hibernacula

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 - LIGHTING COLUMNS SET BACK 0.5M BEHIND THE FOOTWAY/ CYCLEWAY.
 - REFER TO THE ECOLOGICAL MITIGATION PLAN FOR THE SCHEME ECOLOGICAL ENHANCEMENT MEASURES REQUIRED.



Rev	Drawn	Chk'd	App'd	Description	Date
P17	AS	KS	AB	POST AND RAIL AND BADGER FENCING AMENDED AROUND POND 2	10.06.22
P16	AS	KS	AB	POST AND RAIL AND HEDGE REPLACED WITH BADGER FENCING AND TEMPORARY LAND ADDED BETWEEN POND 2 AND POND 1	13.05.22
P15	KS	KS	AB	NO DIG CONSTRUCTION AREA ADDED FOR TREE ROOT PROTECTION ON POND 1	26.04.22
P14	JB	KS	KS	NOTE 5 ADDED AND KEY AMENDED	18.03.22
P13	AS	KS	AB	LANDSCAPING KEY AMENDED	10.03.22
P12	JB	KS	AB	BADGER FENCING EXTENDED	25.02.22
P11	JB	KS	AB	LIGHTING LAYOUT UPDATED AND KEY AMENDED FOR SPECIMEN SHRUBS. BADGER FENCING EXTENDED TO THE SOUTH SIDE ACROSS THE DEVELOPER ROUNDABOUT	18.02.22
P10	JB	KS	KS	WESTBOUND BUS STOP RELOCATED	07.01.22
P09	KS	KS	AB	LIGHTING COLUMNS OFFSET TO BE 0.5M FROM THE SHARED FOOTWAY/ CYCLEWAY.	10.12.21
P08	KS	KS	AB	LABELS AMENDED	27.04.21
P07	KS	KS	AB	KEY UPDATED. LABELS ADDED	23.04.21
P06	JD	KS	AB	REDLINE BOUNDARY UPDATED. LANDSCAPE AND FENCING	30.03.21
P05	LR	KS	AB	LABELS AMENDED	21.10.20
P04	LR	KS	AB	HIGHWAY LAYOUT AND REDLINE BOUNDARY UPDATED	18.10.20
P03	PD	KS	AB	KEY UPDATED	03.09.20
P02	LR	KS	AB	MODELS UPDATED	28.08.20
P01	PD	RPH	KS	FIRST ISSUE	12.06.20

Purpose of Issue
For Planning S0

Classification
Public

Client

Project
A29 Realignment Scheme

Drawing
Site Plan Sheet 2 of 5

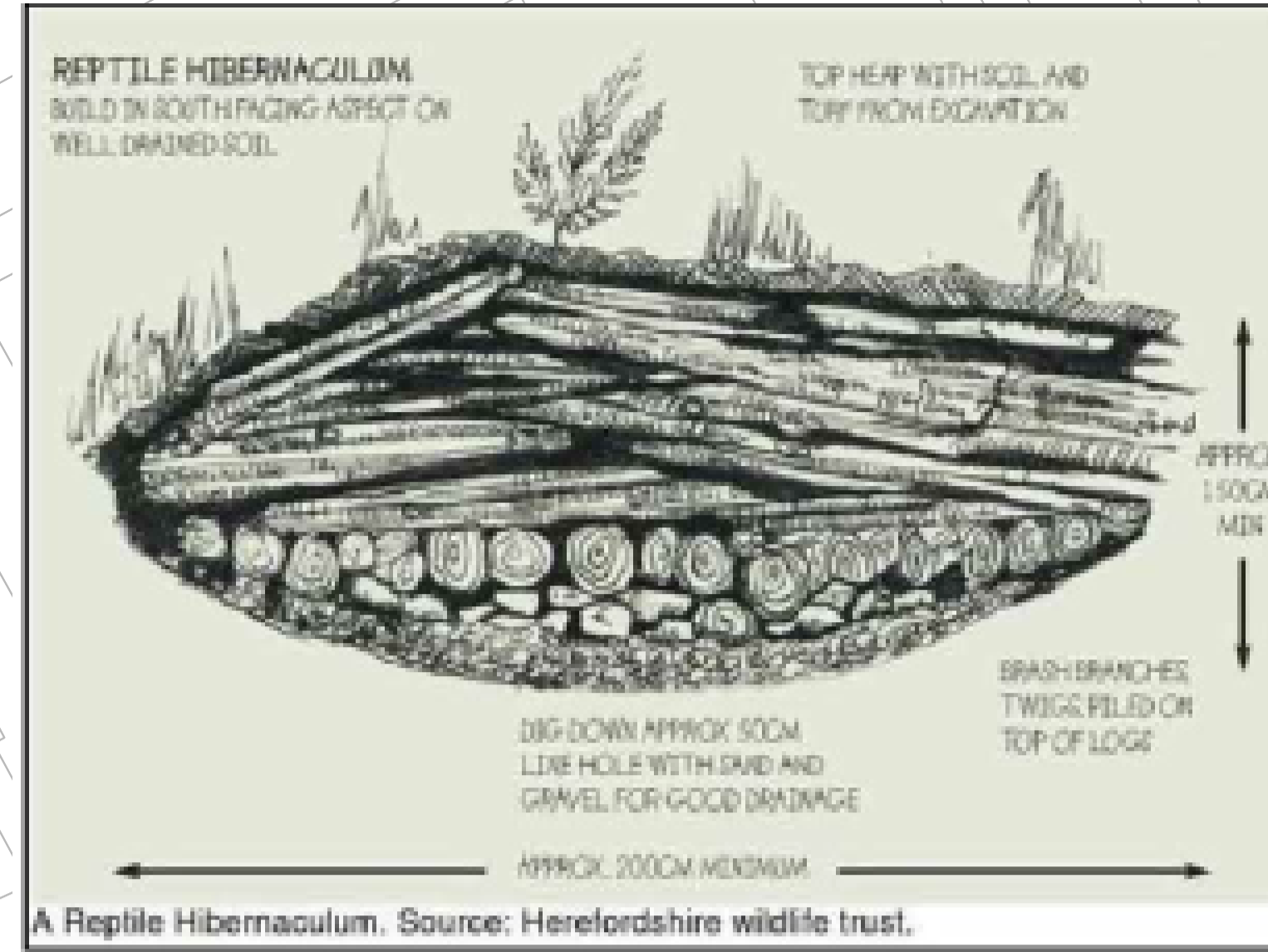
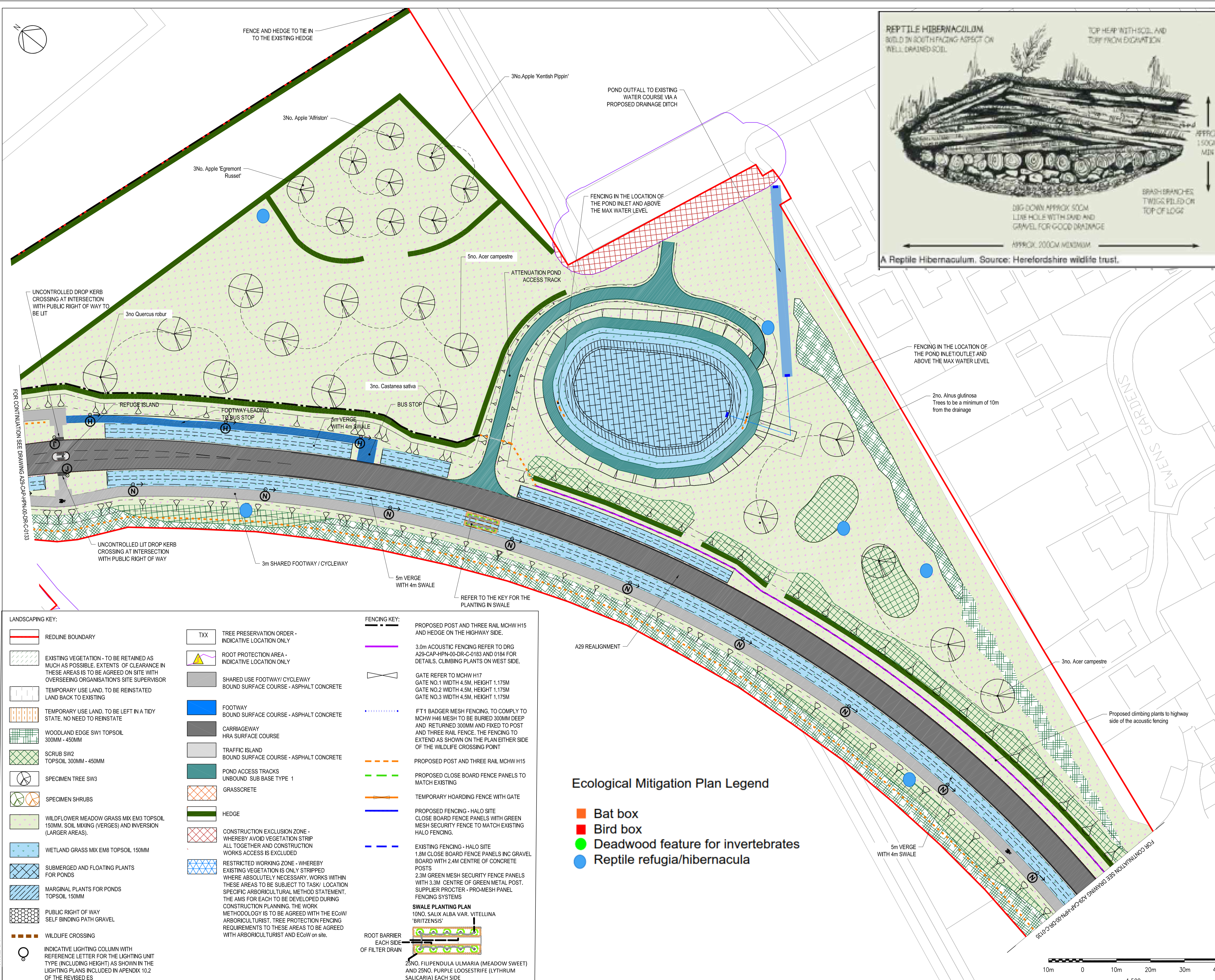
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1:500	PD	DAH	KS

Project No.	Date
CS099505	12.06.20

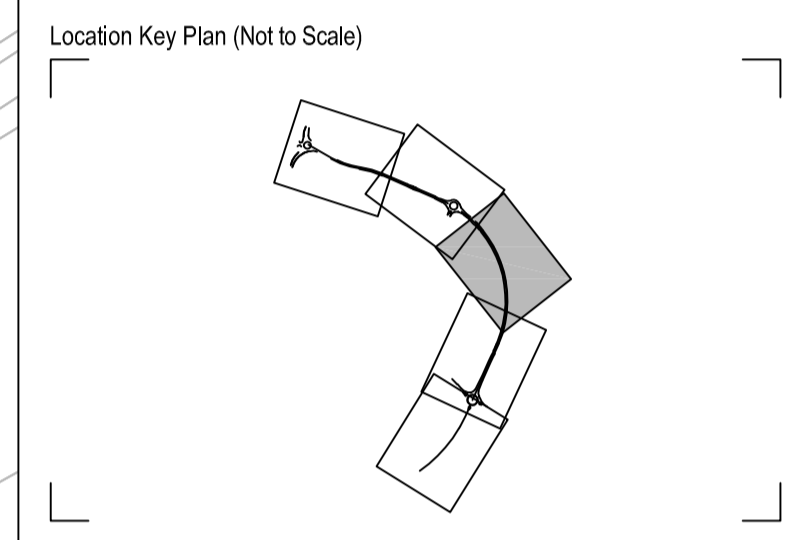
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A29-CAP-HPN-00-DR-C-0133 P17

CAPITA

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 01342 327161
 www.capitaproperty.co.uk
 Capita Property and Infrastructure Ltd.



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Rev	Drawn	Checked	Approved	Description	Date
P12	JB	KS	KS	NOTE 5 ADDED AND KEY AMENDED	18.03.22
P11	AS	KS	AB	LANDSCAPING KEY AMENDED	10.03.22
P10	JB	KS	AB	POST AND RAIL ADDED TO THE WEST SIDE OF A29	25.02.22
P09	JB	KS	AB	LIGHTING LAYOUT UPDATED AND KEY AMENDED FOR SPECIMEN SHRUBS, HEDGE AND FENCE ADDED TO ENCLOSE LANDSCAPE AREA AND DECORATIVE LIGHTING COLUMNS OFFSET TO BE 0.5M FROM THE SHARED FOOTWAY/ CYCLEWAY.	18.02.22
P08	KS	KS	AB	KEY UPDATED AND LABELS ADDED	10.12.21
P07	KS	KS	AB	REDLINE BOUNDARY UPDATED, LANDSCAPE AND FENCING DETAILS ADDED	23.04.21
P06	JD	KS	AB	REDLINE BOUNDARY UPDATED, LANDSCAPE AND FENCING LABELS AMENDED	30.03.21
P05	LR	KS	AB	DETAILS ADDED	21.10.20
P04	LR	KS	AB	HIGHWAY LAYOUT AND REDLINE BOUNDARY UPDATED	16.10.20
P03	PD	KS	AB	KEY ADDED	03.09.20
P02	LR	KS	AB	LABELS ADDED / AMENDED	28.08.20
P01	PD	DAH	KS	FIRST ISSUE	12.06.20

Purpose of Issue
For Planning S0

Classification
Public



Project
A29 Realignment Scheme

Drawing
Site Plan
 Sheet 3 of 5

Scale @ A1	Drawn	Checked	Approved
1:500	PD	RP	KS

Project No.	Date
CS099505	12.06.20

Drawing Identifier	BS1192 Compliant
A29-CAP-HPN-00-DR-C-0134	P12

LANDSCAPING KEY:

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- EXISTING VEGETATION - TO BE RETAINED AS MUCH AS POSSIBLE. EXTENTS OF CLEARANCE IN THESE AREAS IS TO BE AGREED ON SITE WITH OVERSEEING ORGANISATION'S SITE SUPERVISOR
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- WOODLAND EDGE SW1 TOPSOIL 300MM - 450MM
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- SPECIMEN SHRUBS
- WILDFLOWER MEADOW GRASS MIX EM3 TOPSOIL 150MM. SOIL MIXING (VERGES) AND INVERSION (LARGER AREAS).
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FENCING KEY:

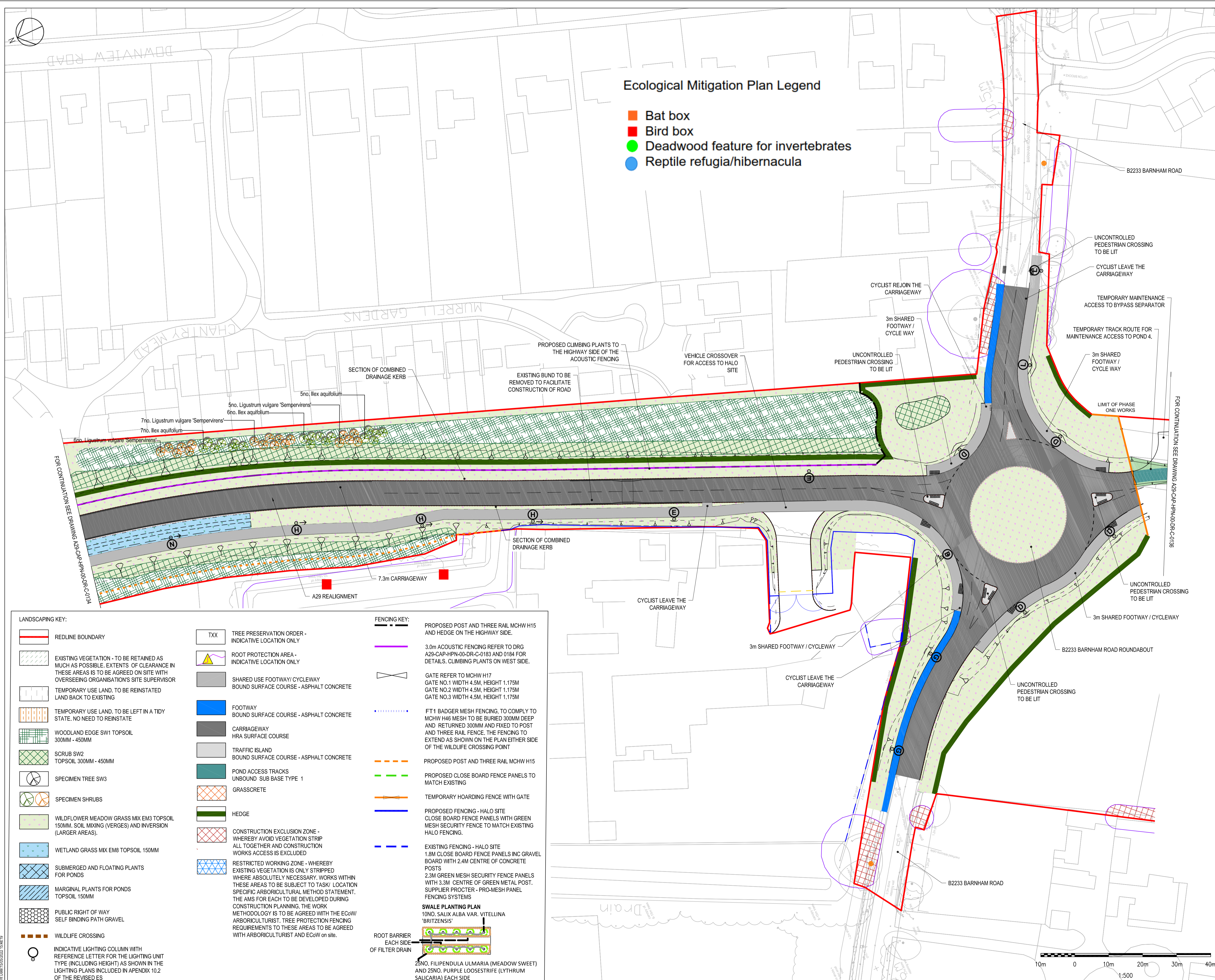
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- GATE REFER TO MCHW H17 GATE NO.1 WIDTH 4.5M, HEIGHT 1.175M GATE NO.2 WIDTH 4.5M, HEIGHT 1.175M GATE NO.3 WIDTH 4.5M, HEIGHT 1.175M
- FT1 BADGER MESH FENCING, TO COMPLY TO MCHW H46 MESH TO BE BURIED 300MM DEEP AND RETURNED 300MM AND FIXED TO POST AND THREE RAIL FENCE. THE FENCING TO EXTEND AS SHOWN ON THE PLAN EITHER SIDE OF THE WILDLIFE CROSSING POINT
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LANDSCAPING KEY (continued):

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- ROOT BARRIER EACH SIDE OF FILTER DRAIN

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- Bat box
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FENCING KEY:

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SWALE PLANTING PLAN
 10NO. SALIX ALBA VAR. VITELLINA 'BRITZENSIS'
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CARRIAGEWAY HRA SURFACE COURSE

TRAFFIC ISLAND BOUND SURFACE COURSE - ASPHALT CONCRETE

POND ACCESS TRACKS UNBOUND SUB BASE TYPE 1

GRASSCRETE

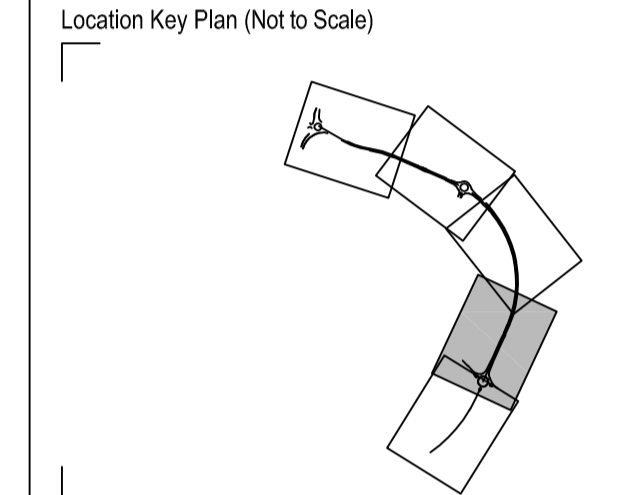
HEDGE

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ROOT BARRIER EACH SIDE OF FILTER DRAIN

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Rev	Drawn	Checked	App'd	Description	Date
P15	AS	KS	AB	HEDGE ADDED ALONG HALO FENCE LINE	13.05.22
P14	JB	KS	KS	NOTE 5 ADDED AND KEY AMENDED	18.03.22
P13	AS	KS	AB	LANDSCAPING KEY AMENDED	10.03.22
P12	JB	KS	AB	AREA OF WILDFLOWER MEADOW GRASS ADJUSTED TO SUIT PROPOSED HEDGE LINE	28.02.22
P11	JB	KS	AB	POST AND RAIL ADDED TO THE WEST SIDE OF A29, TEMPORARY HOARDING ADDED ACROSS THE PHASE 1 LIMIT OF WORKS.	25.02.22
P10	JB	KS	AB	LIGHTING LAYOUT UPDATED AND KEY AMENDED FOR SPECIMEN SHRUBS	18.02.22
P09	KS	KS	AB	LIGHTING COLUMNS OFFSET TO BE 0.5M FROM THE SHARED FOOTWAY/ CYCLEWAY	10.12.21
P08	KS	KS	AB	VEGPOINT AMENDED	27.04.21
P07	KS	KS	AB	KEY UPDATED AND LABELS ADDED	23.04.21
P06	JD	KS	AB	REDLINE BOUNDARY UPDATED, LANDSCAPE AND FENCING DETAILS ADDED	30.03.21
P05	LR	KS	AB	DETAILED ADDED	21.10.20
P04	LR	KS	AB	HIGHWAY LAYOUT AND REDLINE BOUNDARY UPDATED	16.10.20
P03	PD	KS	AB	KEY UPDATED	03.09.20
P02	LR	KS	AB	LABELS ADDED / AMENDED	28.08.20
P01	PD	DAH	KS	FIRST ISSUE	12.06.20

Purpose of Issue: **For Planning** S0

Classification: **Public**



Project: **A29 Realignment Scheme**

Drawing: **Site Plan Sheet 4 of 5**

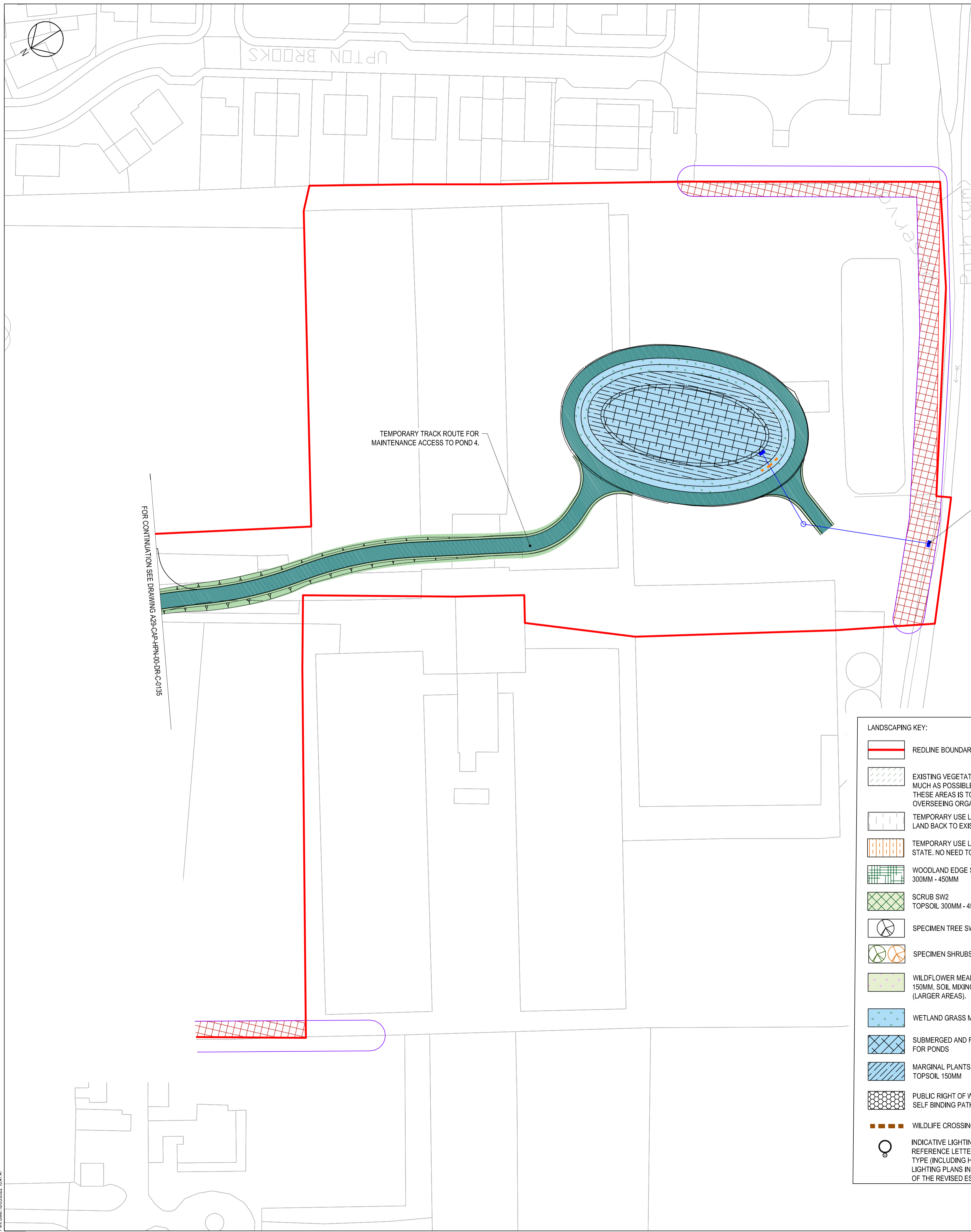
Scale @ A1	Drawn	Checked	Approved
1:500	PD	DAH	KS

Project No.	Date
CS099505	14.06.20

Drawing Identifier	Revision
A29-CAP-HPN-00-DR-C-0135	P15



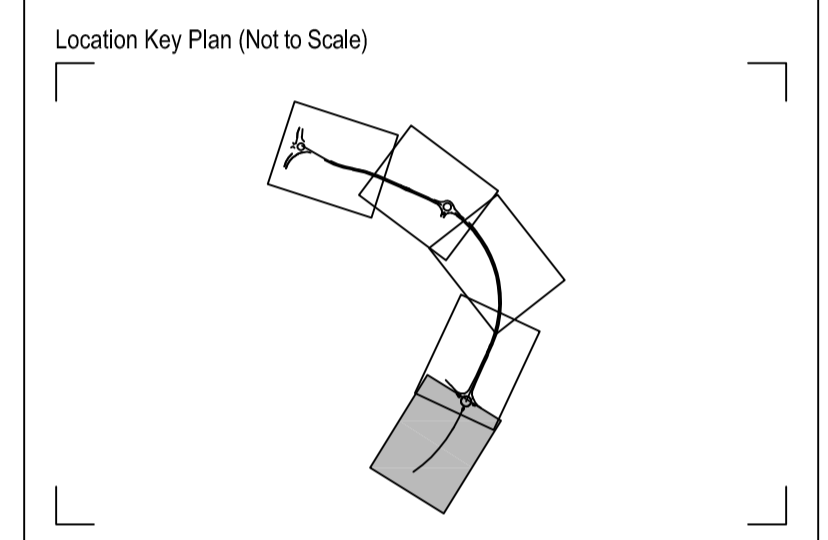
Capita House, Wood Street, East Grinstead, RH19 1UJ
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Ecological Mitigation Plan Legend

- Bat box
- Bird box
- Deadwood feature for invertebrates
- Reptile refugia/hibernacula

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. EARTHWORKS SIDE SLOPES ARE 1 IN 3 WHERE POSSIBLE. IN AREAS LIMITED BY LAND OR ENVIRONMENTAL RESTRICTIONS, STEEPER SLOPES HAVE BEEN GENERATED.
 3. REFER TO DRAWING A29-CAP-HPN-00-DR-C-0132 FOR THE TYPICAL DETAIL FOR LIGHTING COLUMN BEHIND SHARED FOOTWAY/ CYCLEWAY WITH LOCALISED WIDENED VERGE.
 4. LIGHTING COLUMNS SET BACK 0.5M BEHIND THE FOOTWAY/ CYCLEWAY.
 5. REFER TO THE ECOLOGICAL MITIGATION PLAN FOR THE SCHEME ECOLOGICAL ENHANCEMENT MEASURES REQUIRED.



Rev	Drawn	Checked	App'd	Description	Date
P12	JB	KS	KS	NOTE 5 ADDED AND KEY AMENDED	18.03.22
P11	AS	KS	AB	LANDSCAPING KEY AMENDED	10.03.22
P10	JB	KS	AB	KEY AMENDED	25.02.22
P09	JB	KS	AB	KEY AMENDED	18.02.22
P08	KS	KS	AB	LIGHTING COLUMNS OFFSET TO BE 0.5M FROM THE SHARED FOOTWAY/ CYCLEWAY	10.12.21
P07	JD	KS	AB	KEY UPDATED AND LABELS ADDED	23.04.21
P06	JD	KS	AB	REDLINE BOUNDARY UPDATED, LANDSCAPE AND FENCING DETAILS ADDED, POND 4 LOCATION REVISD	30.03.21
P05	LR	KS	AB	HIGHWAY LAYOUT AND REDLINE BOUNDARY UPDATED	21.10.20
P04	LR	KS	AB	KEY UPDATED	16.10.20
P03	PD	KS	AB	KEY UPDATED	03.09.20
P02	LR	KS	AB	LABELS ADDED / AMENDED	28.06.20
P01	PD	DAH	KS	FIRST ISSUE	12.06.20

Purpose of Issue
For Planning S0

Classification
Public



Project
A29 Realignment Scheme

Drawing
Site Plan Sheet 5 of 5

Scale @ A1	Drawn	Checked	Approved
1:500	PD	DAH	KS

Project No. CS099505 Date 12.06.20

Drawing Identifier A29-CAP-HPN-00-DR-C-0136 revision P12



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LANDSCAPING KEY:

- REDLINE BOUNDARY
- EXISTING VEGETATION - TO BE RETAINED AS MUCH AS POSSIBLE. EXTENTS OF CLEARANCE IN THESE AREAS IS TO BE AGREED ON SITE WITH OVERSEEING ORGANISATIONS'S SITE SUPERVISOR
- TEMPORARY USE LAND, TO BE REINSTATED LAND BACK TO EXISTING
- TEMPORARY USE LAND, TO BE LEFT IN A TIDY STATE. NO NEED TO REINSTATE
- WOODLAND EDGE SW1 TOPSOIL 300MM - 450MM
- SCRUB SW2 TOPSOIL 300MM - 450MM
- SPECIMEN TREE SW3
- SPECIMEN SHRUBS
- WILDFLOWER MEADOW GRASS MIX EM3 TOPSOIL 150MM. SOIL MIXING (VERGES) AND INVERSION (LARGER AREAS).
- WETLAND GRASS MIX EM8 TOPSOIL 150MM
- SUBMERGED AND FLOATING PLANTS FOR PONDS
- MARGINAL PLANTS FOR PONDS TOPSOIL 150MM
- PUBLIC RIGHT OF WAY SELF BINDING PATH GRAVEL
- WILDLIFE CROSSING
- INDICATIVE LIGHTING COLUMN WITH REFERENCE LETTER FOR THE LIGHTING UNIT TYPE (INCLUDING HEIGHT) AS SHOWN IN THE LIGHTING PLANS INCLUDED IN APENDIX 10.2 OF THE REVISED ES

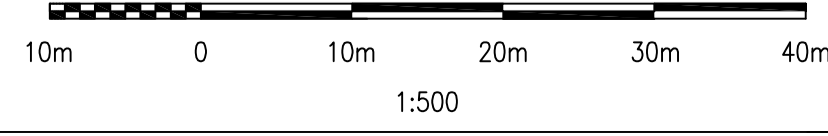
FENCING KEY:

- PROPOSED POST AND THREE RAIL MCHW H15 AND HEDGE ON THE HIGHWAY SIDE.
- 3.0m ACOUSTIC FENCING REFER TO DRG A29-CAP-HPN-00-DR-C-0183 AND 0184 FOR DETAILS. CLIMBING PLANTS ON WEST SIDE.
- GATE REFER TO MCHW H17 GATE NO.1 WIDTH 4.5M, HEIGHT 1.175M GATE NO.2 WIDTH 4.5M, HEIGHT 1.175M GATE NO.3 WIDTH 4.5M, HEIGHT 1.175M
- FT1 BADGER MESH FENCING, TO COMPLY TO MCHW H46 MESH TO BE BURIED 300MM DEEP AND RETURNED 300MM AND FIXED TO POST AND THREE RAIL FENCE. THE FENCING TO EXTEND AS SHOWN ON THE PLAN EITHER SIDE OF THE WILDLIFE CROSSING POINT
- PROPOSED POST AND THREE RAIL MCHW H15
- PROPOSED CLOSE BOARD FENCE PANELS TO MATCH EXISTING
- TEMPORARY HOARDING FENCE WITH GATE
- PROPOSED FENCING - HALO SITE CLOSE BOARD FENCE PANELS WITH GREEN MESH SECURITY FENCE TO MATCH EXISTING HALO FENCING.
- EXISTING FENCING - HALO SITE 1.8M CLOSE BOARD FENCE PANELS INC GRAVEL BOARD WITH 2.4M CENTRE OF CONCRETE POSTS 2.3M GREEN MESH SECURITY FENCE PANELS WITH 3.3M CENTRE OF GREEN METAL POST. SUPPLIER PROCTER - PRO-MESH PANEL FENCING SYSTEMS

SWALE PLANTING PLAN

10NO. SALIX ALBA VAR. VITELLINA 'BRITZENSIS'

25NO. FILIPENDULA ULMARIA (MEADOW SWEET) AND 25NO. PURPLE LOOSESTRIFE (LYTHRUM SALICARIA) EACH SIDE



P:\1\Draws\18032022\180747