

Hampstead Heath Ponds Project

PLANNING DRAWINGS AND DESIGN
J. MIXED BATHING POND

July 2014



Contents

1. Summary	3
2. Existing Masterplan	4
3. Proposed Masterplan	5
4. Cross Sections	6
5. Elevations	8
6. Detail Sections	10
7. Aquatic Ecology Typical Edge Details	11
8. Artist's Impression	12



Mixed Bathing Pond - Planning Drawings and Design

AIMS

- Minimum intervention to improve discharge capacity with sensitive implementation to minimise visual impact and effects on users.
- Maintain the spirit of place and seclusion, key views from the south east.
- Retain the wild and natural character of the Heath.
- West bank repaired and to increase swimming area.

SUMMARY OF PROPOSALS

Dam:

- Dam raised by 1m within footprint of existing dam. Achieved by raising pond edge by 500mm with sheet piles clad in timber plus a 500mm low bund along upstream face.
- 4m wide path reinstated on crest surface.
- Downstream slope of raised fill to be 1:3 and lined with reinforced turf to match existing slope, which will be lined with reinforced turf also.

Spillway:

- Spillway over the majority of the crest of the dam with 1:12 ramp either side of spillway to preserve existing mature trees.
- Existing overflow pipe extended further in to the pond.

Tree Loss:

A: 0 B: 0 C: 7 U: 0

Mitigation:

- Pond to be de-silted.
- New marginal planting on the north bank and along the upstream face of the dam.
- New tree and shrub planting – extent and location to be agreed.

EXISTING ENVIRONMENTAL CONSIDERATIONS:

- Natural intimate character of pond, partly enclosed by woodland and overhanging trees with more open views from the south, although the planting screening the footpath to the east is thin.
- Lifeguard station and diving platforms with surveillance across the pond.
- Accessibility and visual amenity of entrance points.
- No direct public access to the water's edge.
- Visual amenity of footpath on dam to the south.
- Close proximity of residential properties.
- Use: amenity, viewing, mixed bathing, and fishing, including new platforms to facilitate disabled fishing, with good access to carpark and urban area.
- Opportunity for environmental improvements, including ecology and water quality.

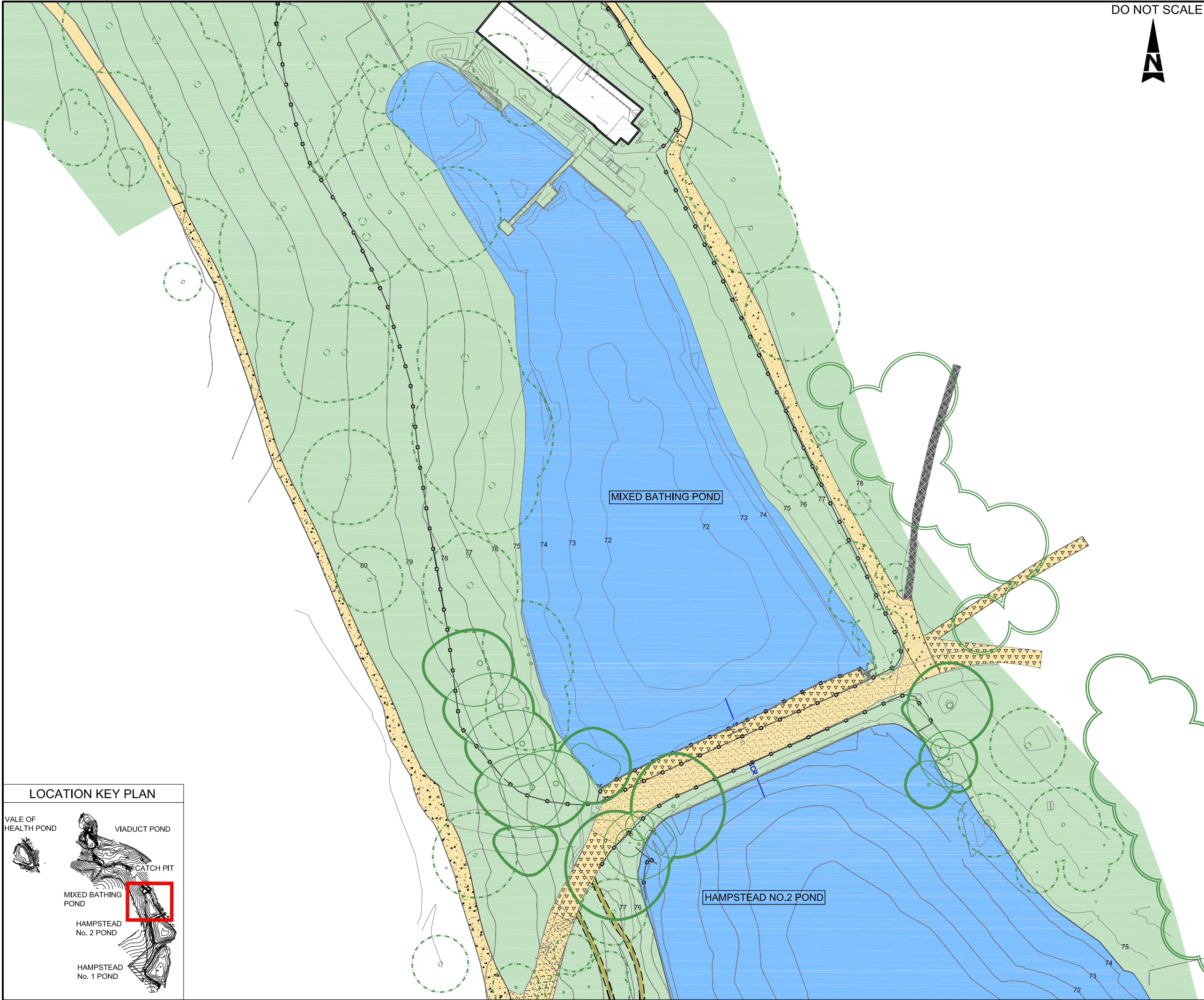
EXISTING PHOTOGRAPHS



Existing view looking north across Mixed Bathing Pond towards the existing changing rooms and platform to be retained as part of the proposed works.



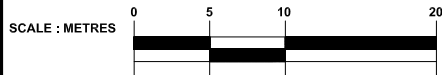
Existing view looking north east across the Mixed Bathing Pond dam crest. The proposed works will raise the dam by 0.5m with a further 0.5m grassed bund along the upstream edge of the footpath.



DO NOT SCALE

- POND
- CONTOURS (mAOD)
- LANDSCAPING AREA INCLUDED IN TOPOGRAPHICAL SURVEY ADJACENT TO PONDS
- EXISTING FENCE / LINE OF RAILING
- EXISTING FOOTPATHS
- FOOTPATH FINISHES:**
 - COMPACT AGGREGATE
 - TAR SPRAY AND CHIP ON ASPHALT
 - COMPACT AGGREGATE AND HOGGIN
 - COMPACT EARTH
 - GRASS
 - ASPHALT
 - COMPACT EARTH AND GRAVEL
 - HOGGIN
- TREES COVERED BY TOPOGRAPHICAL AND ARBORICULTURAL SURVEY
- TREES COVERED BY TOPOGRAPHICAL SURVEY
- INDICATIVE LOCATION OF EXISTING TREES
- EXISTING POND VEGETATION
- APPROXIMATE LOCATION OF JAPANESE KNOTWEED
- APPROXIMATE LOCATION OF HIMALAYAN BALSAM
- APPROXIMATE LOCATION OF HOGWEED

- NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES TO ORDNANCE SURVEY DATUM (NEWLYN)



Drawing Status **FOR PLANNING** Suitability **S2**

ATKINS Woodcote Grove
Ashley Road
Epsom
Surrey
KT18 5BW
Tel: +44 (0)1372 726140
Fax: +44 (0)1372 740055
www.atkinsglobal.com

Copyright © Atkins Limited (2014)

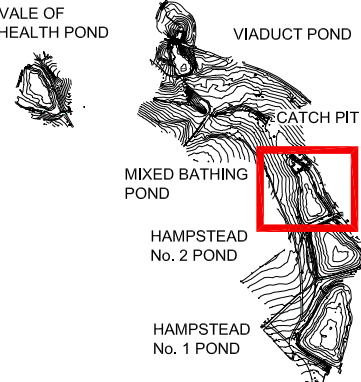
Client
City of London Corporation

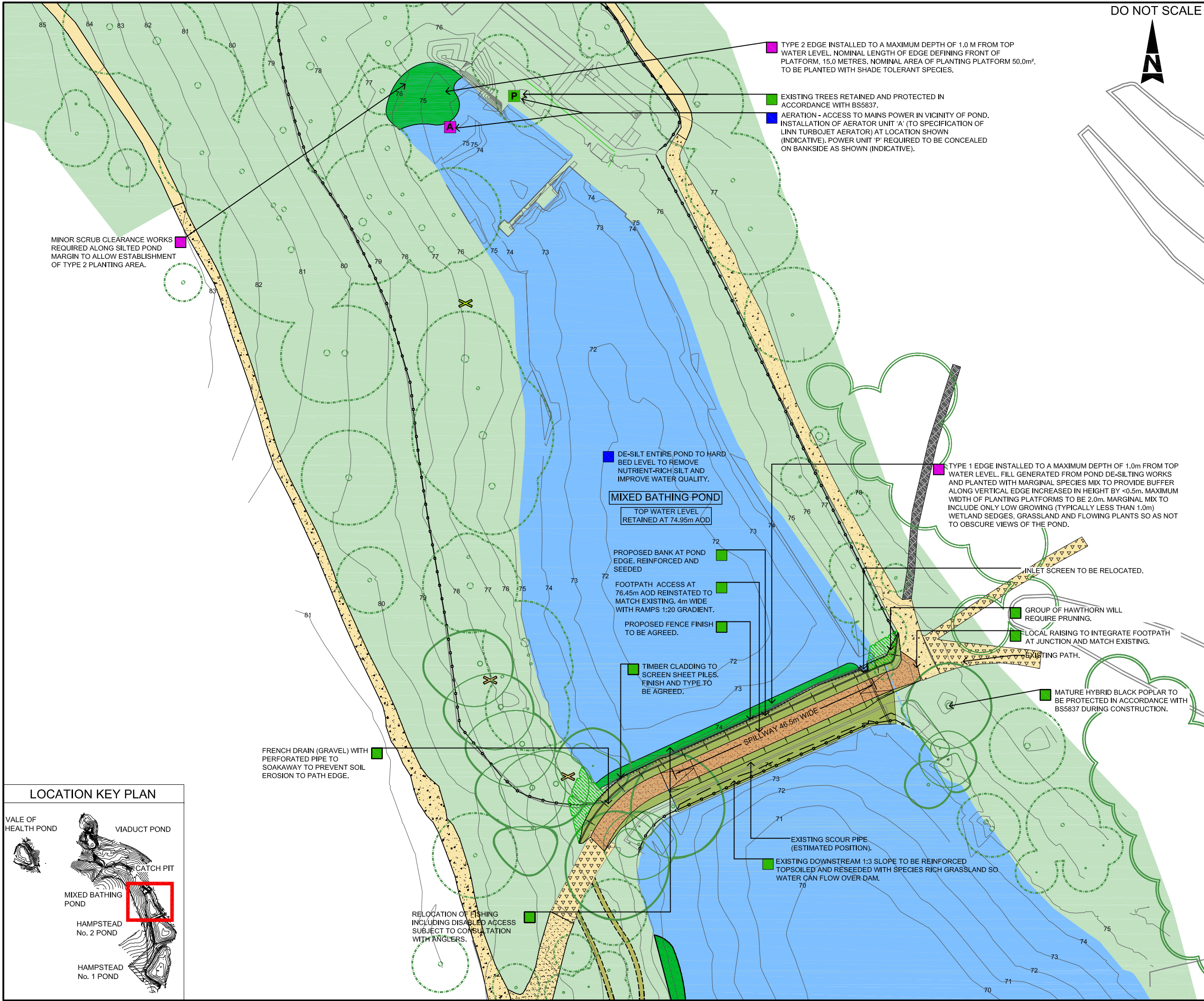
Project Title
HAMPSTEAD HEATH PONDS PROJECT

Drawing Title
**MIXED BATHING POND
EXISTING SITE PLAN**

Scale	1:750	Designed	NM	Drawn	IF	Checked	NM	Authorised	LB
Original Size	A3	Date	24/04/14	Date	24/04/14	Date	24/04/14	Date	24/04/14
Drawing Number	5117039-ATK-P8-ZZ-DR-L-7004								Revision P3

LOCATION KEY PLAN





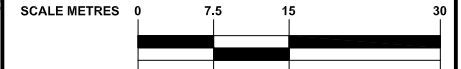
DO NOT SCALE



	POND		INDICATIVE ROUTE OF FLOOD WATER
	EXISTING CONTOURS (m AOD)		EXISTING FENCE / LINE OF RAILING
	PROPOSED CONTOURS (m AOD)		PROPOSED FENCE / LINE OF RAILING
	LANDSCAPE AREA INCLUDED IN TOPOGRAPHICAL SURVEY ADJACENT TO PONDS		EXISTING FOOTPATHS
	PROPOSED GRASS SPILLWAY		REINSTATED PATH Existing path to be extended or reinstated and made good
	PROPOSED GRASS SPILLWAY BANKS AND BUNDS		WALL
	PROPOSED RAMP		WILDFLOWER MIX
FOOTPATH FINISHES:			GRASS
	COMPACT AGGREGATE		ASPHALT
	TAR SPRAY AND CHIP ON ASPHALT		COMPACT EARTH AND GRAVEL
	COMPACT AGGREGATE AND HOGGIN		HOGGIN
	COMPACT EARTH		
	TREES COVERED BY TOPOGRAPHICAL AND ARBORICULTURAL SURVEY		PROPOSED LOG AND BRASH PILE - APPROXIMATE LOCATION CONSTRUCTED USING FELLED / CUT MATERIAL
	TREES COVERED BY TOPOGRAPHICAL SURVEY		PROPOSED REPTILE AND AMPHIBIAN HIBERNACULA - APPROXIMATE LOCATION
	INDICATIVE LOCATION OF EXISTING TREES		MANAGEMENT OF JAPANESE KNOTWEED
	TREES COPPICED DURING CONSTRUCTION		MANAGEMENT OF HIMALAYAN BALSAM
	PROPOSED AREA OF TREE AND SHRUB PLANTING TYPE AND EXTENT TO BE AGREED		MANAGEMENT OF GIANT HOGWEED
	EXISTING POND VEGETATION		PROPOSED AERATOR 'A' / AERATOR POWER TO MANAGE WATER QUALITY 'P' OR 'G'
	PROPOSED POND PLANTING		PROPOSED SHEET PILE EDGE

- NOTES RELATING TO ENVIRONMENTAL PROPOSALS:
- | | | | |
|--|-----------------|--|---------------------|
| | WATER QUALITY | | LANDSCAPE |
| | AQUATIC ECOLOGY | | TERRESTRIAL ECOLOGY |

- NOTES:
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED AND LEVELS IN METRES TO ABOVE ORDNANCE DATUM (AOD) THE HEIGHT OR VERTICAL DATUM USED BY AN ORDNANCE SURVEY RELATIVE TO AVERAGE SEA LEVEL AT NEWLYN, CORNWALL, UK.
 - JAPANESE KNOTWEED AND HIMALAYAN BALSAM - APPROXIMATE LOCATIONS IDENTIFIED IN 2013 AS PART OF HABITAT SURVEY FURTHER AREAS MAY BE IDENTIFIED.
 - TREES ON EDGE OF WORKS TO BE RETAINED AND PROTECTED IN ACCORDANCE WITH BRITISH STANDARDS (BS) 5837 WHERE SITE WORKS ALLOW.
 - FOR TYPE 1 TO TYPE 5 EDGE DETAILS FOR PROPOSED POND PLANTING REFER TO PLANNING DRAWINGS AND DESIGN POND AND OVERVIEW BOOKLET FOR HIGHGATE AND HAMPSTEAD CHAINS.



Drawing Status: **FOR PLANNING** Suitability: **S2**

ATKINS
Woodcote Grove
Ashley Road
Epsom
Surrey
KT18 5BW
Tel: +44 (0)1372 726140
Fax: +44 (0)1372 740055
www.atkinsglobal.com

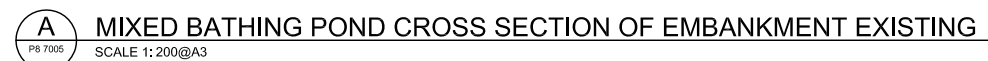
Copyright © Atkins Limited (2014)

Client: **City of London Corporation**

Project Title: **HAMPSTEAD HEATH PONDS PROJECT**

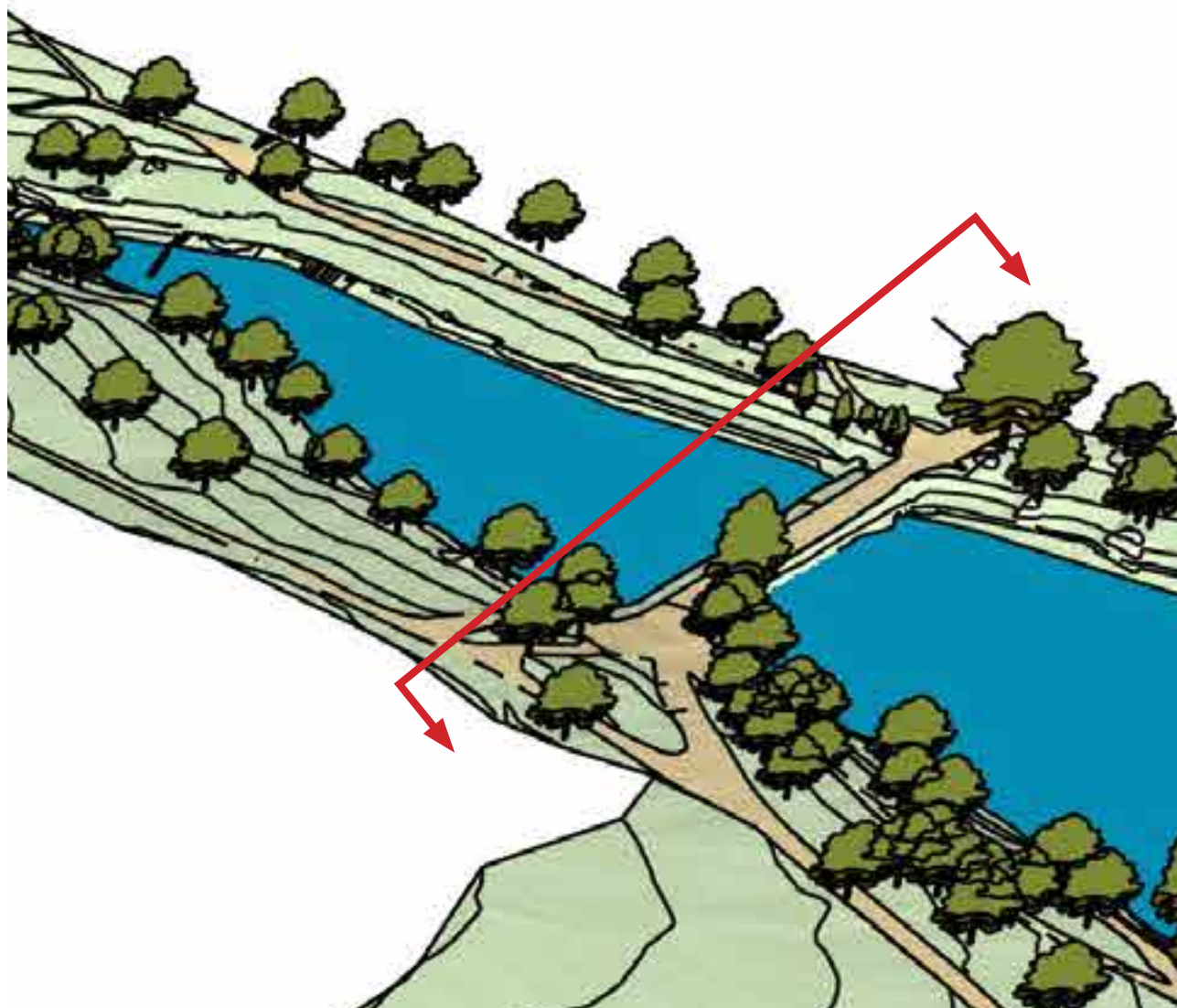
Drawing Title: **MIXED BATHING POND ENVIRONMENTAL MASTERPLAN**

Scale	Designed	Drawn	IF	Checked	Authorized
1:750	NM	IF	NM	NM	LB
Original Size	Date	Date	Date	Date	Date
A3	24/04/14	24/04/14	24/04/14	24/04/14	24/04/14
Drawing Number	Revision				
5117039-ATK-P8-ZZ-DR-L-7005	P3				

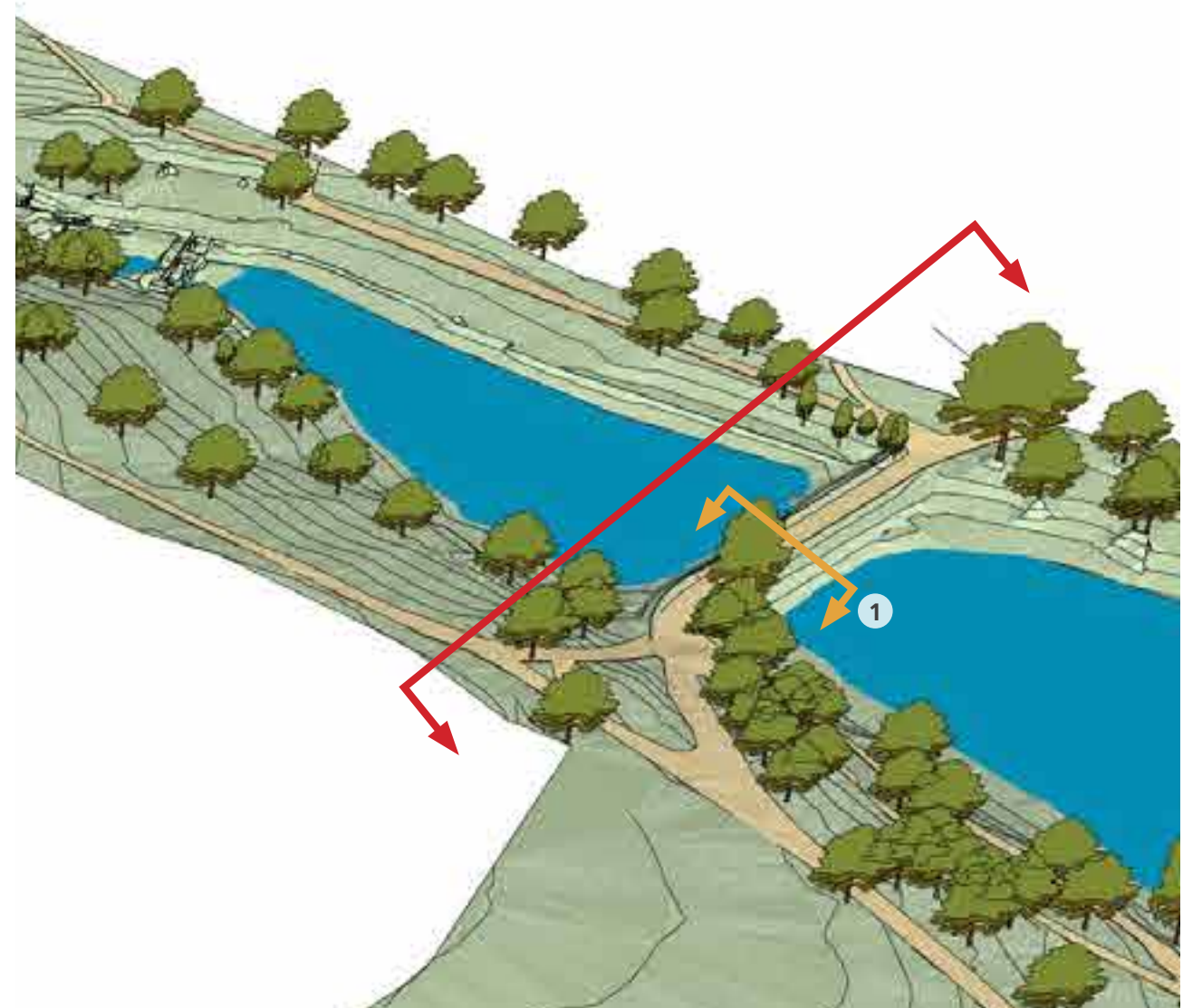


Client	City of London Corporation		Title				
			HAMPSTEAD CHAIN CROSS SECTIONS MIXED BATHING POND				
Project	HAMPSTEAD HEATH PONDS PROJECT		Sheet Size	Original Scale	Designed/Drawn	Checked	Authorised
			A1	1:100@A1	MS	NM	LB
				1:200@A3	Date 28.05.14	Date 28.05.14	Date 28.05.14
			Status	Drawing Number			Rev
			S2	5117039-ATK-P8-ZZ-DR-L-7006			P2

Elevations



Mixed Bathing Pond - Existing Elevation Location Plan

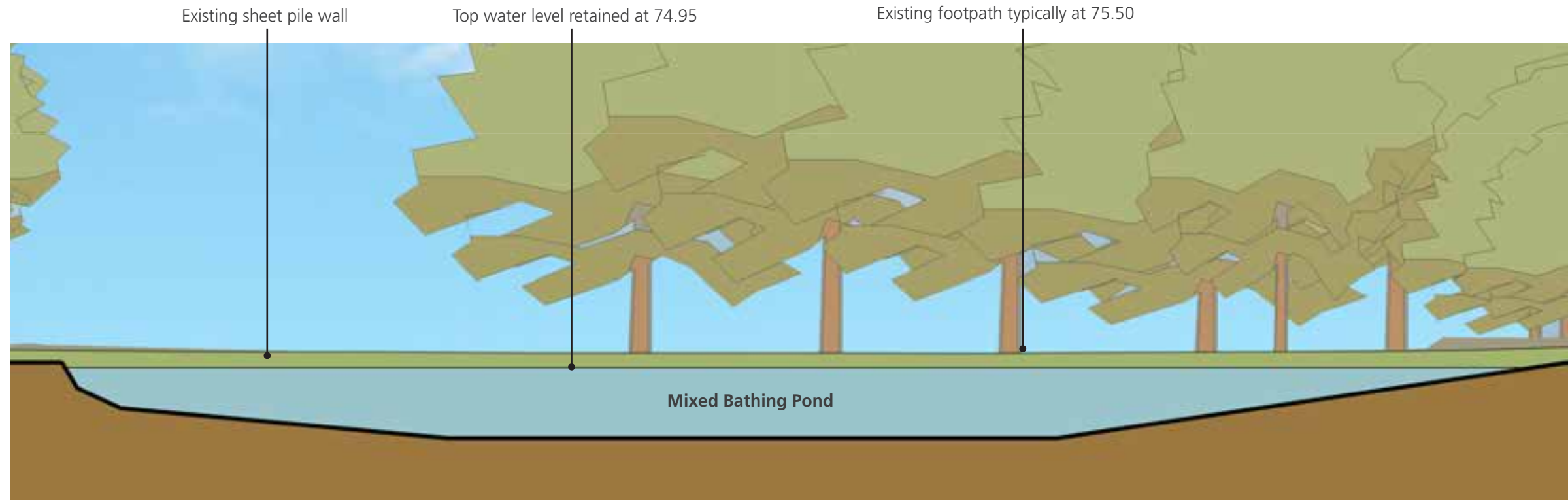


Mixed Bathing Pond - Proposed Elevation Location Plan

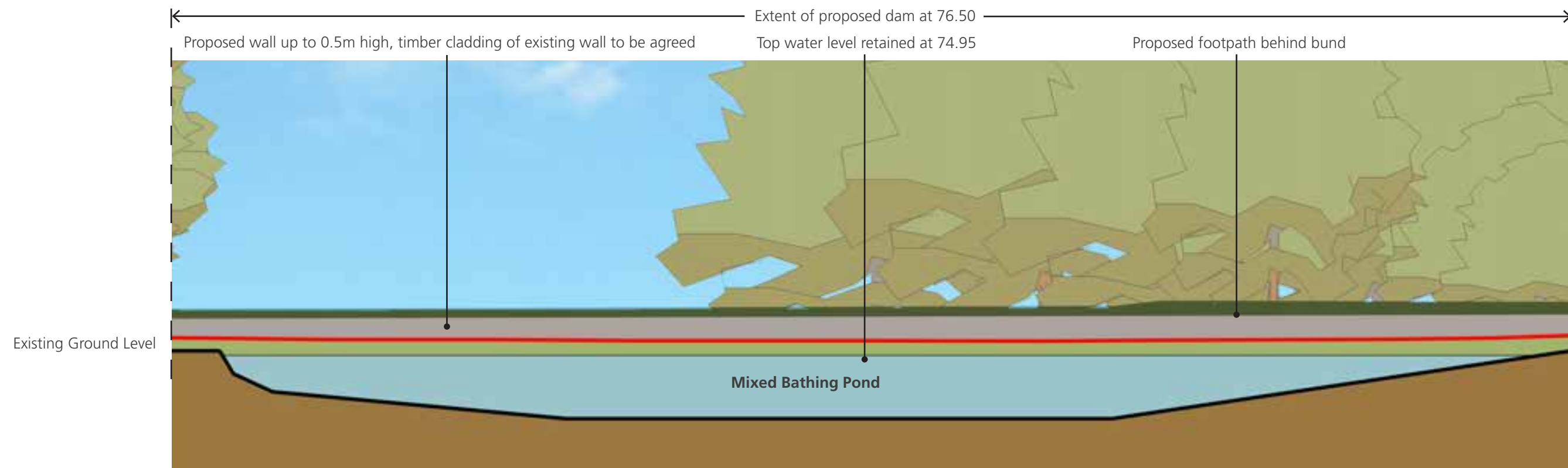
Key

↓ ↓ Downstream view

↑ ↑ Detail Sections



Mixed Bathing Pond Downstream View Existing Elevation



Mixed Bathing Pond Downstream View Proposed Elevation

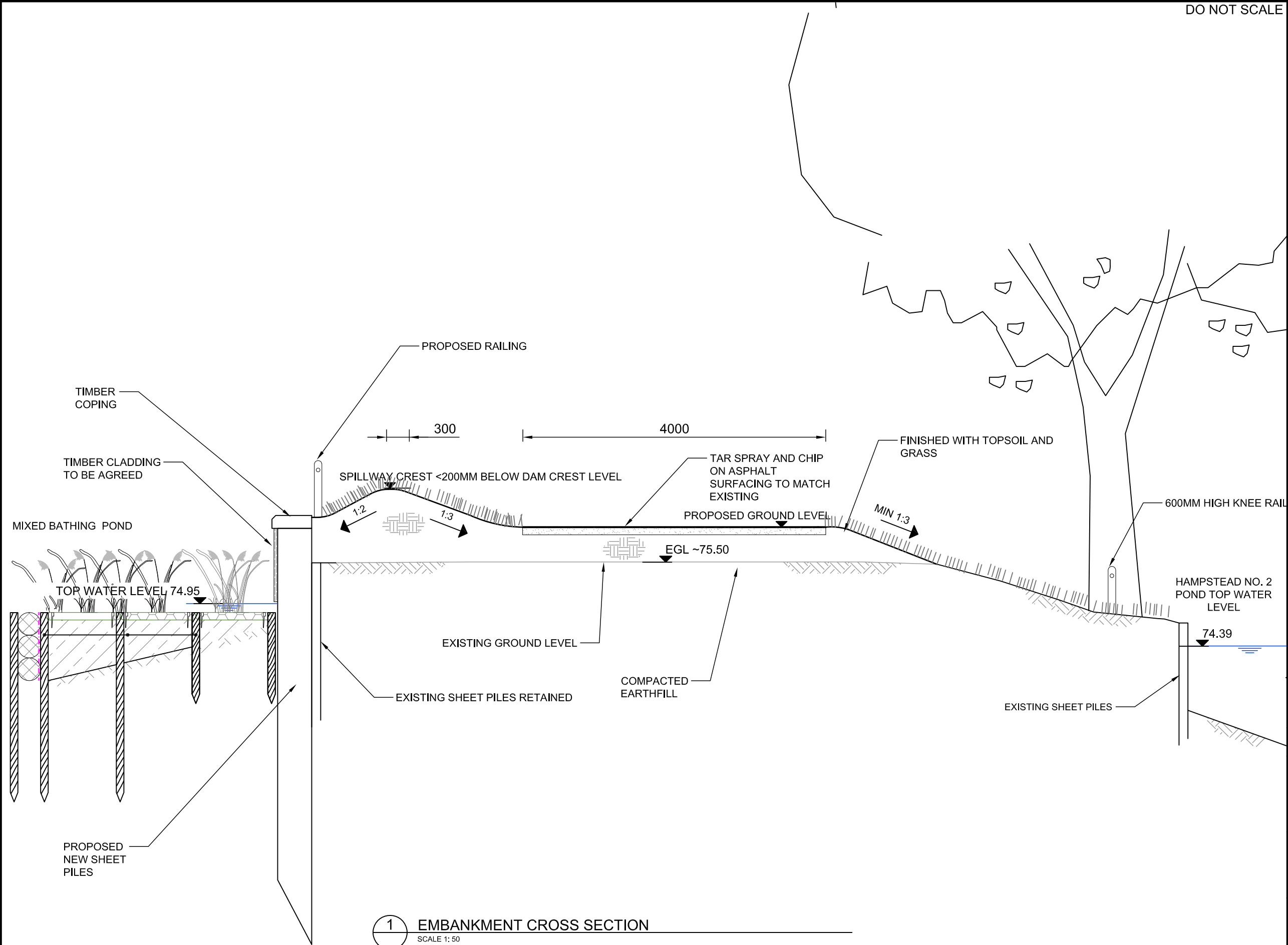


SCALE 1:200 @ A3 (METRES)

All dimensions in metres unless otherwise stated and levels in metres to Above Ordnance Datum (AOD) - the height or vertical datum used by an Ordnance Survey relative to the average sea level at Newlyn, Cornwall UK.

All elevations are illustrative and have been rendered from the 3D Sketchup model

DO NOT SCALE



1 EMBANKMENT CROSS SECTION
SCALE 1: 50

Drawing Status		FOR PLANNING			Subsidiary
					S2
		ATKINS			Woodcote Grove Ashley Road Epsom Surrey KT18 5BW Tel: +44 (0)1372 726140 Fax: +44 (0)1372 740055 www.atkinsglobal.com
Copyright		Atkins Limited (2014)			
Client		City of London Corporation			
Project Title		HAMPSTEAD HEATH PONDS PROJECT			
Drawing Title		MIXED BATHING POND DETAIL SECTION			
Scale	Designed	Drawn	Checked	Authorised	
1:50	NM	AW	NM	LB	
Original Size	Date	Date	Date	Date	
A3	26/06/14	26/06/14	26/06/14	26/06/14	
Drawing Number		Revision			
5117039-ATK-P8-ZZ-DR-L-7007		P2			

DO NOT SCALE

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

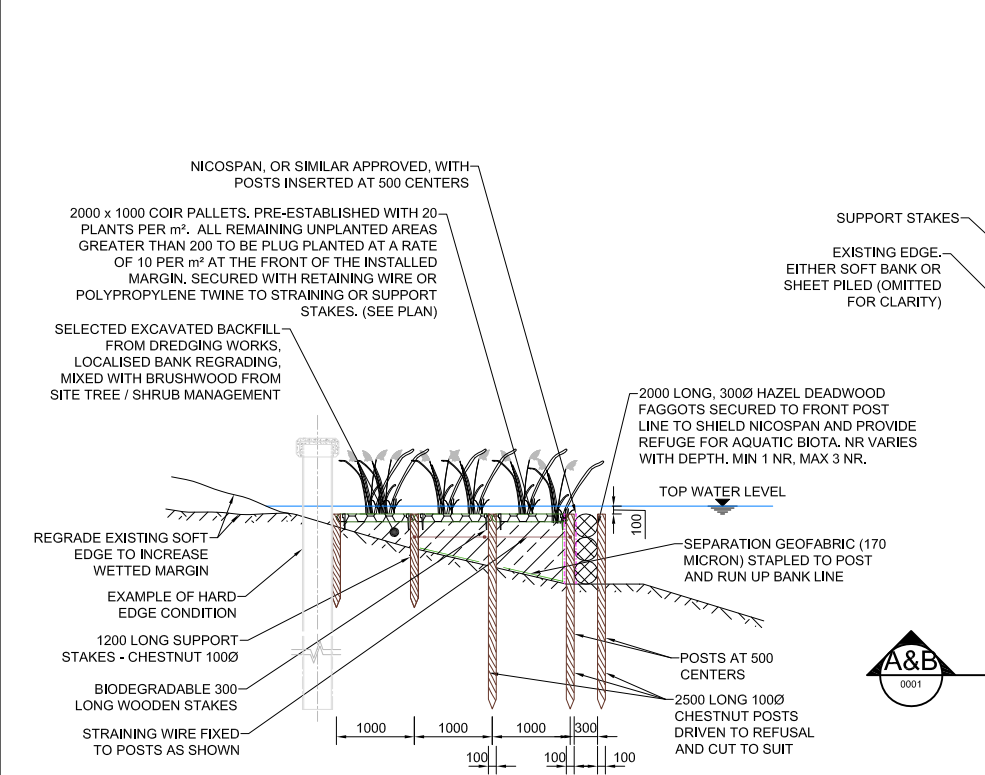
MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

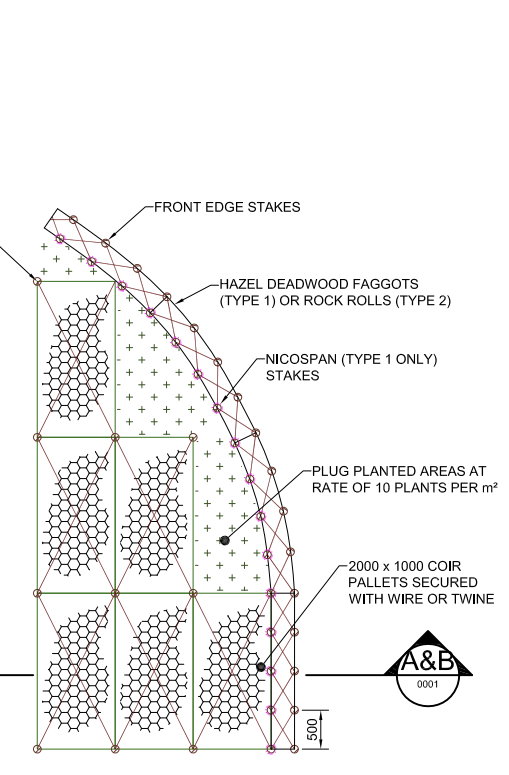
NOTES

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

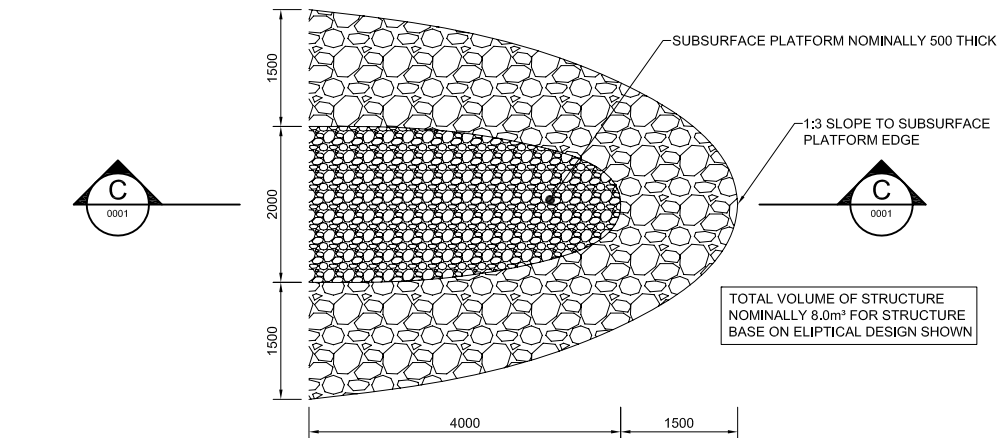
- FOR LOCATION OF SECTIONS A-A TO E-E REFER TO TYPE EDGE DETAIL PLANS ON THIS DRAWING.
- REFER TO INDIVIDUAL ENVIRONMENTAL MASTER PLANS FOR LOCATION AND EXTENT OF SPECIFIC EDGE DETAILS.
- COIR PALLET SIZES TO BE 2M X 1M AND PROVIDED AS PRE-ESTABLISHED PRODUCT PLANTED AT A DENSITY OF 20 PLANTS PER SQUARE METRE. PALLETS TO HAVE BEEN ESTABLISHED IN SPECIALIST WETLAND NURSERY AND GROWN ON FOR ONE SEASON.
- NO COIR PALLETS TO BE CUT.
- COIR ROLL SIZES TO BE 2M LONG BY 300MM DIAMETER. WHERE SPECIFIED, PRE-ESTABLISHED COIR ROLLS TO HAVE BEEN PLANTED AT RATE OF 10 PLANTS PER LINEAR METRE. COIR ROLLS TO HAVE BEEN ESTABLISHED IN SPECIALIST WETLAND NURSERY AND GROWN ON FOR ONE SEASON.
- ROCK ROLL SIZES 2M LONG BY 300MM DIAMETER.
- FAGGOTS TO BE 2M LONG BY 300MM DIAMETER AND COMPOSED OF BOUND DEADWOOD HAZEL.
- ALL FIXED EDGE TYPES TO BE FINISHED AT OR BELOW POND TOP WATER LEVEL (TWL) AS SPECIFIED.
- ALL PLANTING PLATFORM AREAS CREATED THROUGH PLACEMENT OF FILL AND/OR EXCAVATION OF EXISTING BANK MATERIAL. ALL PLANTING PLATFORMS TO BE FREE OF DELETERIOUS MATERIAL.
- ALTHOUGH NOT SHOWN ON DRAWINGS PROVISION IS TO BE MADE FOR WILDFOWL AND/OR DOG EXCLUSION FENCING DURING EARLY PLANT ESTABLISHMENT PHASE, NOMINALLY ONE GROWING SEASON ON SITE. REVIEW OF ONGOING REQUIREMENTS FOR FENCING TO BE DEVELOPED AS PART OF HEATH MANAGEMENT PLAN.
- POND BED AND BANK LEVELS AND BANK PROFILES VARY.
- FINE SEDIMENT ACCUMULATIONS ARE A COMMON CHARACTER OF THE PONDS WITHIN BOTH THE HAMPSHIRE AND HIGHGATE POND CHAINS, WHICH ARE IN SOME INSTANCES GREAT THAN 1.0M DEEP RELATIVE TO HARD BED LEVEL.
- INDIVIDUAL POND WATER LEVELS WILL VARY RELATIVE TO TWL DEPENDING ON PREVAILING HYDRAULIC CONDITIONS.



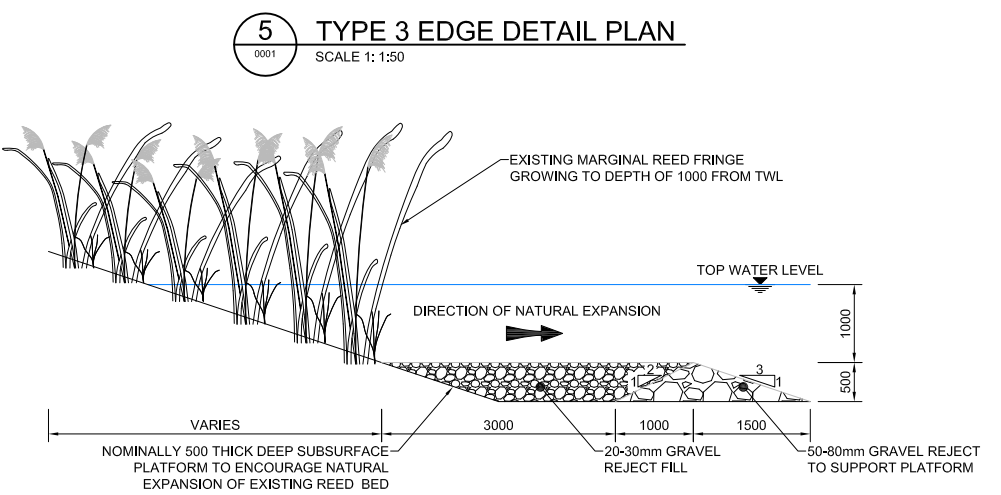
1 TYPE 1 EDGE DETAIL SECTION A-A
SCALE 1: 1:50



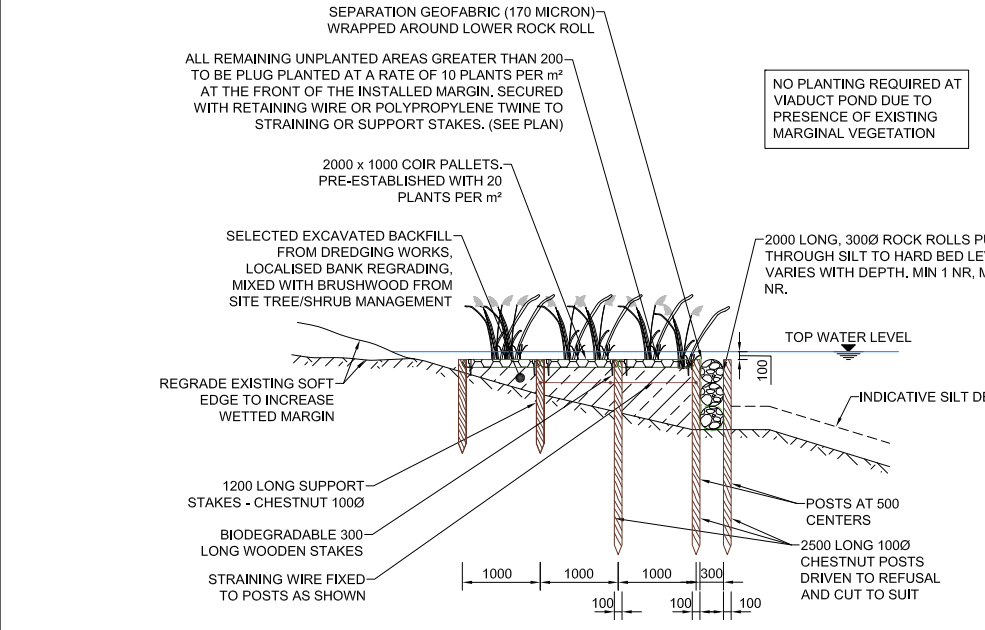
3 TYPE 1 AND 2 EDGE DETAIL PLAN
SCALE 1: 1:50



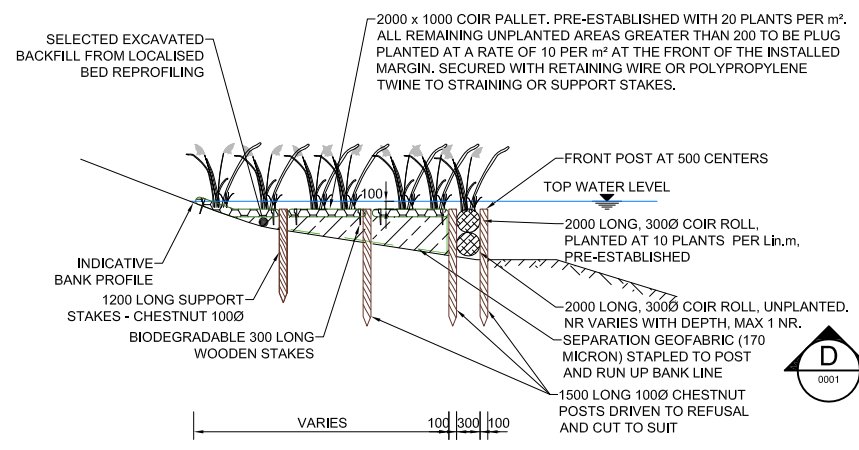
5 TYPE 3 EDGE DETAIL PLAN
SCALE 1: 1:50



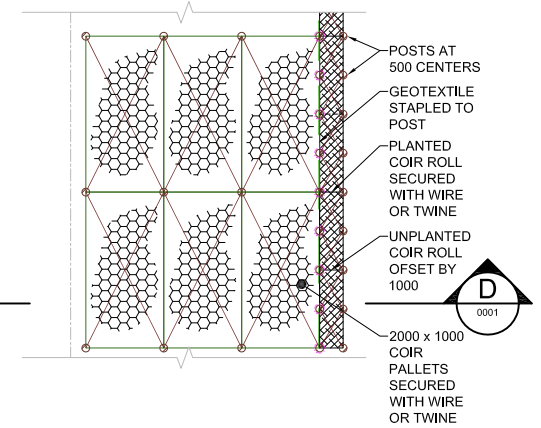
6 TYPE 3 EDGE DETAIL SECTION C-C
SCALE 1: 1:50



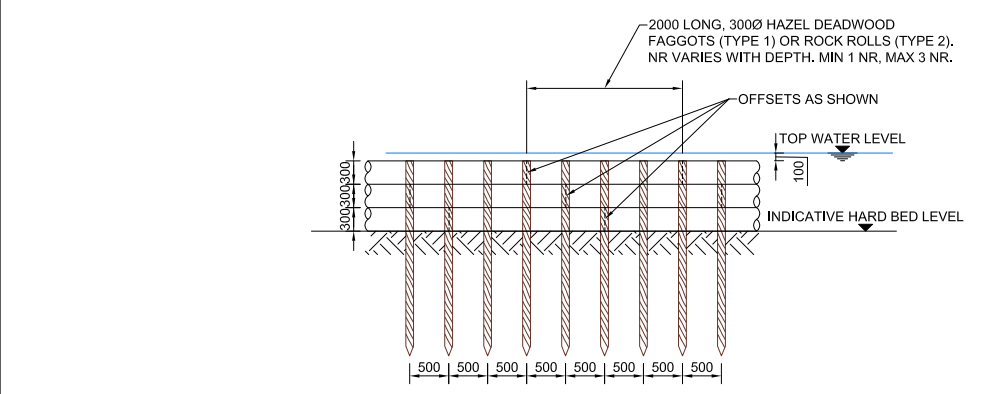
2 TYPE 2 EDGE DETAIL SECTION B-B
SCALE 1: 1:50



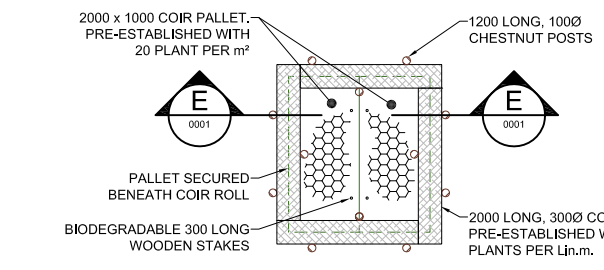
7 TYPE 4 EDGE DETAIL SECTION D-D
SCALE 1: 1:50



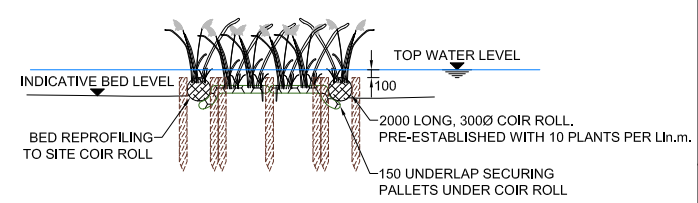
8 TYPE 4 EDGE DETAIL PLAN
SCALE 1: 1:50



4 TYPE 1 AND 2 EDGE DETAIL FRONT ELEVATION
SCALE 1: 1:50



9 TYPE 5 EDGE DETAIL PLAN
SCALE 1: 1:50



10 TYPE 5 EDGE DETAIL SECTION E-E
SCALE 1: 1:50

Rev.	Date	Description	By	Chk'd	App'd
P1	01/07/2014	FOR PLANNING	GJB	IM	LB

Drawing Status: **FOR PLANNING** Substability: **S2**

ATKINS
Woodcote Grove
Ashley Road
Epsom
Surrey
KT18 5BW
Tel: +44 (0)1372 726140
Fax: +44 (0)1372 740055
Copyright © Atkins Limited (2013) www.atkinsglobal.com

Client: **City of London Corporation**

Project Title: **HAMPSTEAD HEATH PONDS PROJECT**

Drawing Title: **AQUATIC ECOLOGY
TYPICAL EDGE DETAILS**

Title

AQUATIC ECOLOGY TYPICAL EDGE DETAILS				
1:50	Designed IM	Drawn GJB	Checked IM	Authorised LB
Size A1	Date 01/07/2014	Date 01/07/2014	Date 01/07/2014	Date 01/07/2014
Drawing Number 5117039-ATK-ZZ-ZZ-DR-L-0001				Revision P1

ARTIST'S IMPRESSION 1



View looking east along footpath on raised dam at Mixed Bathing Pond.

ATKINS

Epsom Gateway
2 Ashley Avenue
Epsom
Surrey
KT18 5AL
England

Telephone +44 (0) 1372 75 6280
Mobile +44 (0) 7710 36 3354
Email: mike.woolgar@atkinsglobal.com

www.atkinsglobal.com