

Hampstead Heath Ponds Project

PLANNING DRAWINGS AND DESIGN
F. HIGHGATE NO. 1 POND

July 2014



Contents

1. Summary	3
2. Existing Masterplan	4
3. Proposed Masterplan	5
4. Cross Sections	6
5. Elevations	10
6. Detail Sections	13
7. Aquatic Ecology Typical Edge Details	14



Highgate No. 1 Pond - Planning Drawings and Design

AIMS

- Retain water level.
- Limited intervention to improve discharge capacity with sensitive implementation to minimise visual impact and tree loss.
- Retain the natural character of the Heath.
- Crest raising on the crest of the dam to retain mature trees on upstream and downstream slopes of the dam.
- Woodland retained with limited tree loss.

SUMMARY OF PROPOSALS

Dam:

- Raising of the dam with a 1.25m high wall, using sheet piling, clad according to Heath stakeholder preference.

Spillway:

- New grass lined spillway at the western end of the dam, 64m wide at the base.
- Return wall along east side of spillway.

Tree Loss:

A: 0 B: 4 C: 13 U:1

- Trees removed during construction (1B and 11C) will be coppiced to facilitate piling rig access and where possible allowed to regrow from ground level.

Mitigation:

- Extension of the existing reed beds along the north bank and new marginal planting on east bank.
- New tree and shrub planting – extent and location to be agreed.

EXISTING ENVIRONMENTAL CONSIDERATIONS:

- Trees enclosing the pond edge to the east and south east provide an intimate, natural woodland character and screen between Hampstead Heath and adjacent residential development.
- Visual amenity from footpaths with seating - with views from the north and west.
- Close proximity of residential properties particularly Brookfield Mansions and West Hill Court with partly screened views of the pond.
- Access to the water's edge from the north and west banks where available.
- Intermittent individual trees and reed habitat along west bank.
- Use: Amenity, fishing, bird feeding, wildlife viewing, and dog access.
- Opportunity for environmental improvements, including ecology and water quality.

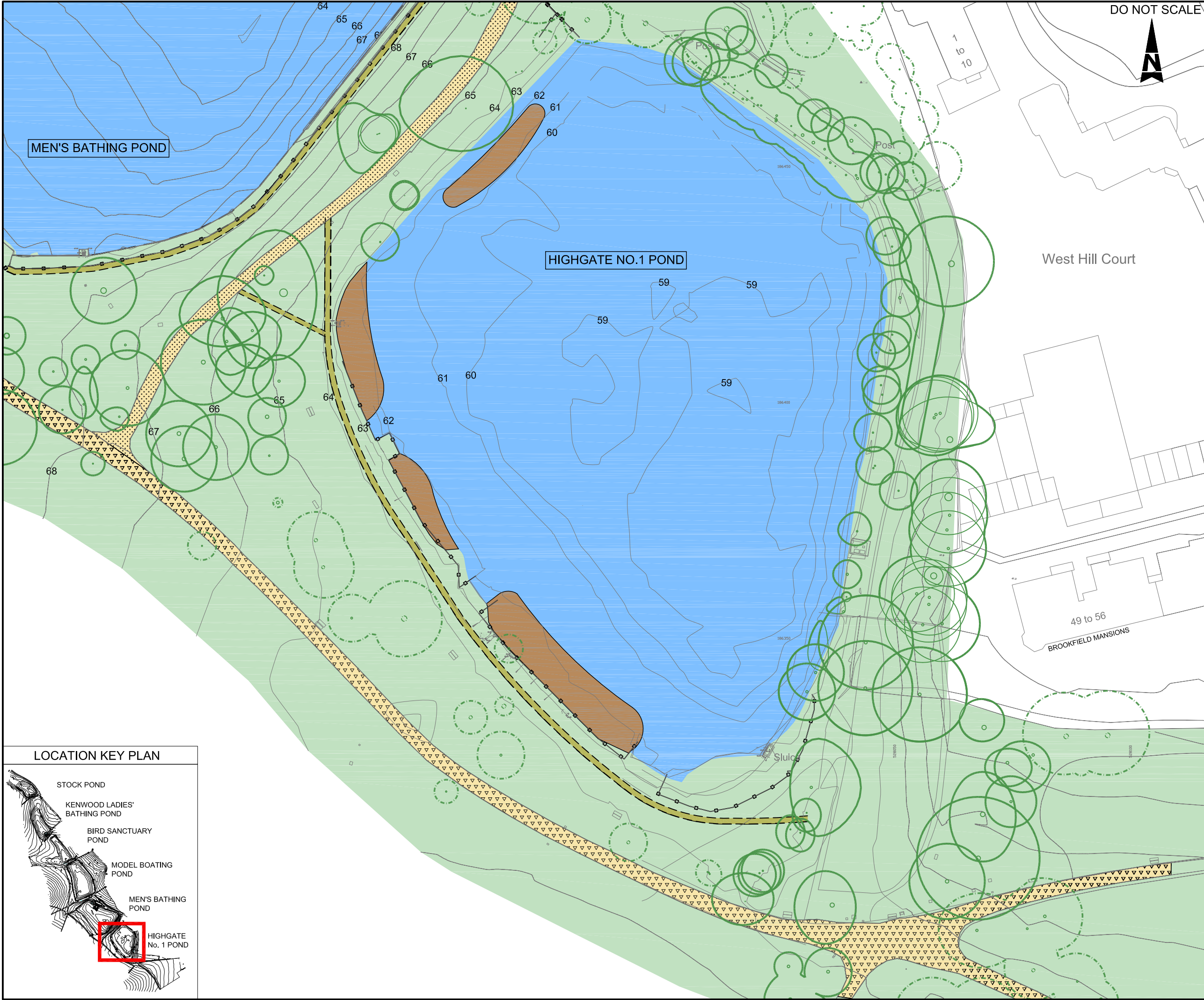
EXISTING PHOTOGRAPHS



Existing view looking east across Highgate No. 1 Pond. The dog bathing areas and footpath access around the pond will be retained.



Existing view looking north east along dam crest. The grassed spillway will fall away to the right of the photograph.



DO NOT SCALE

- POND
- 83 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**

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City of London Corporation

Project Title
HAMPSTEAD HEATH PONDS PROJECT

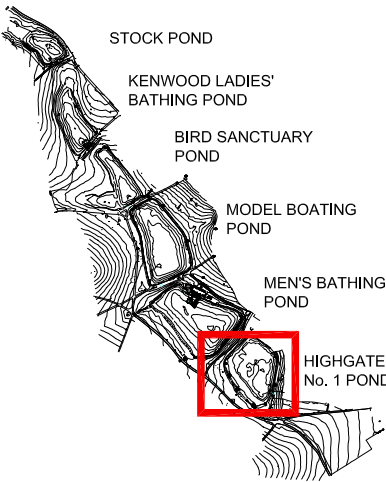
Drawing Title
**HIGHGATE NO.1 POND
EXISTING SITE PLAN**

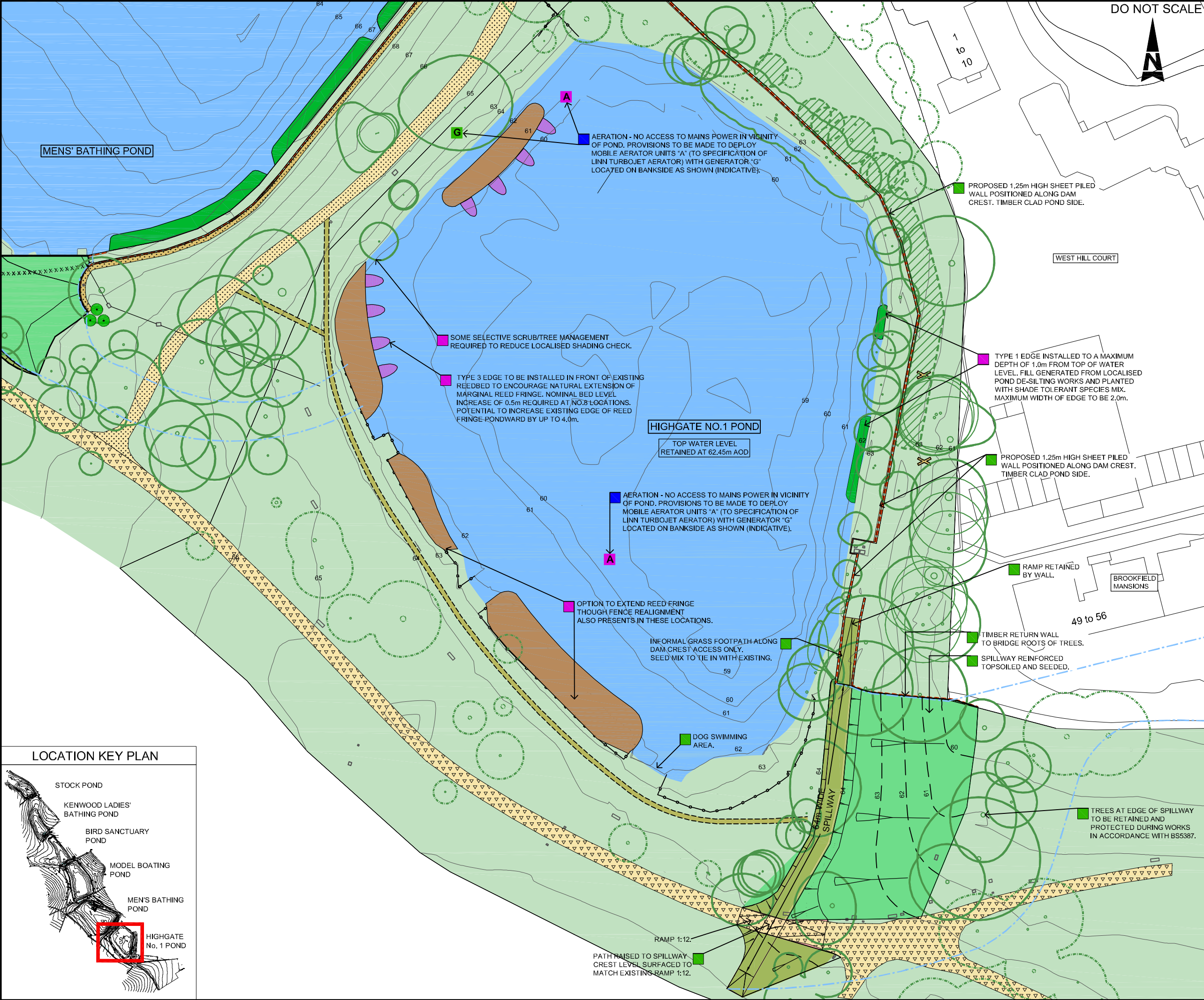
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Original Size	A3	Date	24/04/14	Date	24/04/14	Date	24/04/14	Date	24/04/14

Drawing Number
5117039-ATK-P6-ZZ-DR-L-7004

Revision
P3

LOCATION KEY PLAN





DO NOT SCALE

	POND		INDICATIVE ROUTE OF FLOOD WATER
	EXISTING CONTOURS (mAOD)		EXISTING FENCE / LINE OF RAILING
	PROPOSED CONTOURS (mAOD)		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:			
	COMPACT AGGREGATE		GRASS
	TAR SPRAY AND CHIP ON ASPHALT		ASPHALT
	COMPACT AGGREGATE AND HOGGIN		COMPACT EARTH AND GRAVEL
	COMPACT EARTH		HOGGIN
	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:			
1. 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.			
2. JAPANESE KNOTWEED AND HIMALAYAN BALSAM - APPROXIMATE LOCATIONS IDENTIFIED IN 2013 AS PART OF HABITAT SURVEY FURTHER AREAS MAY BE IDENTIFIED.			
3. TREES ON EDGE OF WORKS TO BE RETAINED AND PROTECTED IN ACCORDANCE WITH BRITISH STANDARDS (BS) 5837 WHERE SITE WORKS ALLOW.			
4. 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 HAMPTSTEAD CHAINS.			
SCALE METRES 0 7.5 15 30			
Drawing Status		Submittal	
FOR PLANNING		52	
ATKINS		Woodcote Grove Ashley Road Epsom Surrey KT18 5BW Tel: +44 (0)1372 726140 Fax: +44 (0)1372 740055 www.atkinsglobal.com	
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City of London Corporation		Project Title	
HAMPSTEAD HEATH PONDS PROJECT		Drawing Title	
HIGHGATE NO.1 POND ENVIRONMENTAL MASTERPLAN		Scale	
1:750	Designed NM	Drawn IF	Checked NM
Original Size A3	Date 24/04/14	Date 24/04/14	Date 24/04/14
Drawing Number	5117039-ATK-P6-ZZ-DR-L-7005		Revision
			P3



DO NOT SCALE

SECTION	POND	DESCRIPTION	DRAWING REFERENCE NUMBER
A	Stock Pond	Whole Pond Cross Section	5117039-ATK-P1-ZZ-DR-L-7004
B	Stock Pond	Spillway Cross Section	5117039-ATK-P1-ZZ-DR-L-7005
C	Stock Pond	Spillway Cross Section	5117039-ATK-P1-ZZ-DR-L-7005
D	Stock Pond	Spillway Cross Section	5117039-ATK-P1-ZZ-DR-L-7006
A	Kenwood Ladies' Bathing Pond	Embankment Cross Section	5117039-ATK-P2-ZZ-DR-L-7006
B	Kenwood Ladies' Bathing Pond	Embankment Cross Section	5117039-ATK-P2-ZZ-DR-L-7007
C	Kenwood Ladies' Bathing Pond	Embankment Longitudinal Section	5117039-ATK-P2-ZZ-DR-L-7008
A	Bird Sanctuary	Whole Pond Cross Section	5117039-ATK-P3-ZZ-DR-L-7008
B	Bird Sanctuary	Embankment Cross Section	5117039-ATK-P3-ZZ-DR-L-7009
A	Model Boating Pond	Whole Pond Cross Section	5117039-ATK-P4-ZZ-DR-L-7008
B	Model Boating Pond	Embankment Cross Section	5117039-ATK-P4-ZZ-DR-L-7009
A	Men's Bathing Pond	Longitudinal Sections Spillway	5117039-ATK-P5-ZZ-DR-L-7008
B	Men's Bathing Pond	Cross Section Spillway	5117039-ATK-P5-ZZ-DR-L-7009
C	Men's Bathing Pond	Embankment Cross Section	5117039-ATK-P5-ZZ-DR-L-7010
D	Men's Bathing Pond	Embankment Cross Section	5117039-ATK-P5-ZZ-DR-L-7011
A	Highgate No.1 Pond	Whole Pond Cross Section	5117039-ATK-P6-ZZ-DR-L-7006
B	Highgate No.1 Pond	Embankment Cross Section	5117039-ATK-P6-ZZ-DR-L-7007
C	Highgate No.1 Pond	Spillway Cross Section	5117039-ATK-P6-ZZ-DR-L-7008

Drawing Subst

FOR PLANNING

Substality

S2

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HAMPSTEAD HEATH PONDS PROJECT

Drawing Title

HIGHGATE CHAIN
CROSS SECTION KEY PLAN

Scale	Designed	Drawn	Checked	Authorised
NTS	NM	IF	NM	LB
Original Size	Date	Date	Date	Date
A3	24/04/14	24/04/14	24/04/14	24/04/14

Drawing Number

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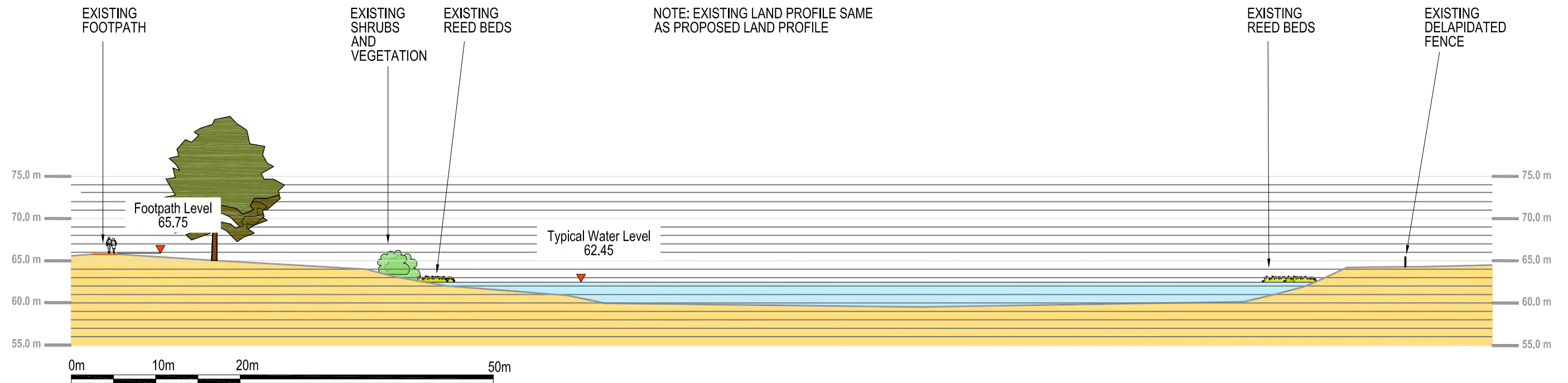
Revision

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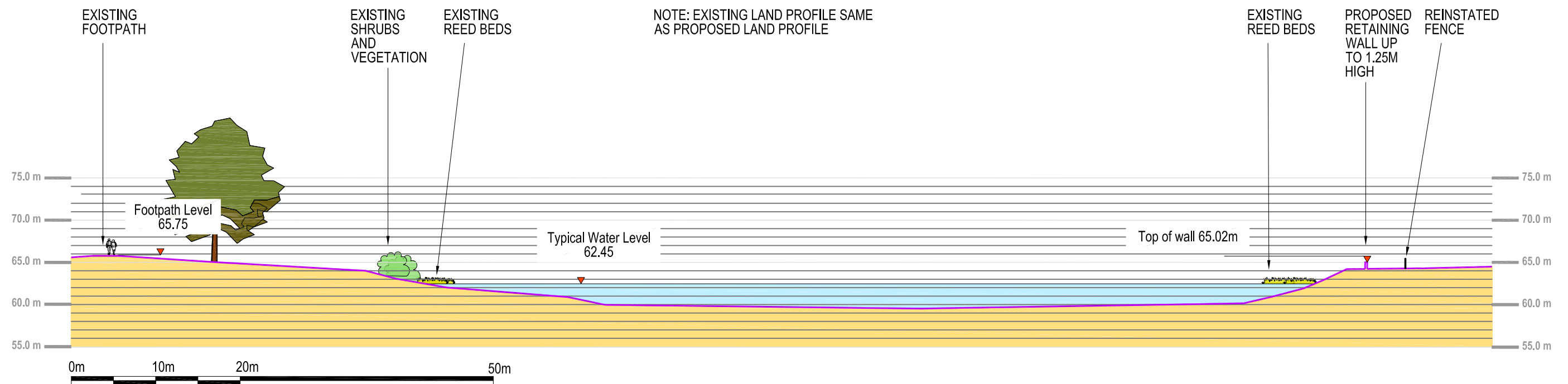
DO NOT SCALE

A1

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






A HIGHGATE NO.1 POND CROSS SECTION EXISTING
P6 7005 SCALE 1: 500@A3



A HIGHGATE NO.1 POND CROSS SECTION PROPOSED
P6 7005 SCALE 1: 500@A3

KEY

	LEVEL MARKER (NOTE: ALL LEVELS IN M AOD)
	EXISTING TREES
	EXISTING SMALL TREES AND SHRUBS
	NEW REED BEDS ON RAISED SHELF
	EXISTING SOIL PROFILE
	SPILLWAY EXTENT

S2	FOR PLANNING	4/7/14	LB						
Stat.	Purpose of Issue	Date	Auth	Rev	Reconsideration		By	Date	Child's Auth

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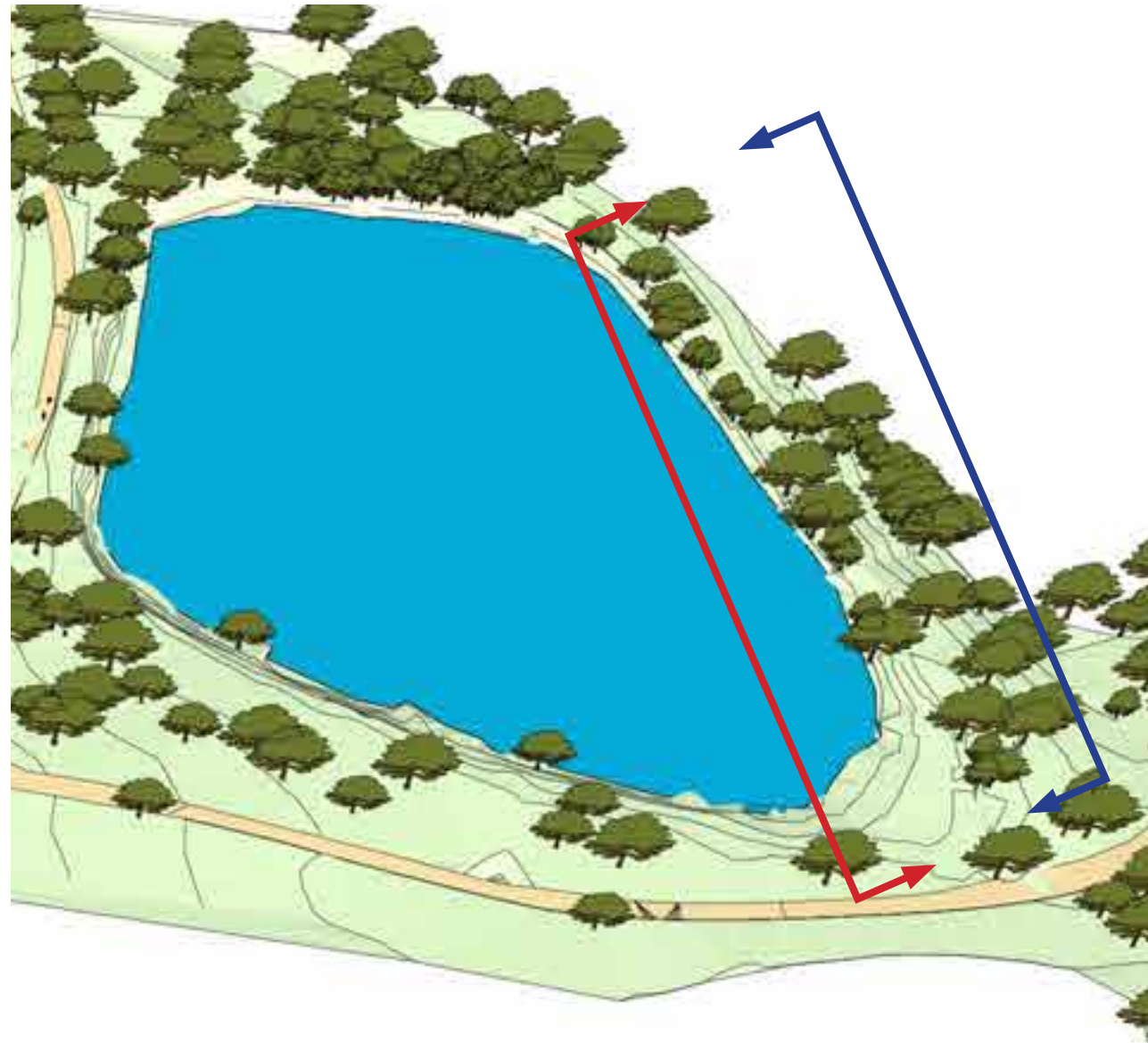
Client	City of London Corporation
Project	HAMPSTEAD HEATH PONDS PROJECT

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Status	Drawing Number			Rev
S2	5117039-ATK-P6-ZZ-DR-L-7006			P2



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		Date 28.05.14	Date 28.05.14	Date 28.05.14
Status S2	Drawing Number 5117039-ATK-P6-ZZ-DR-L-7007			Rev P2

Elevations



Highgate No.1 Pond - Existing Elevation Location Plan



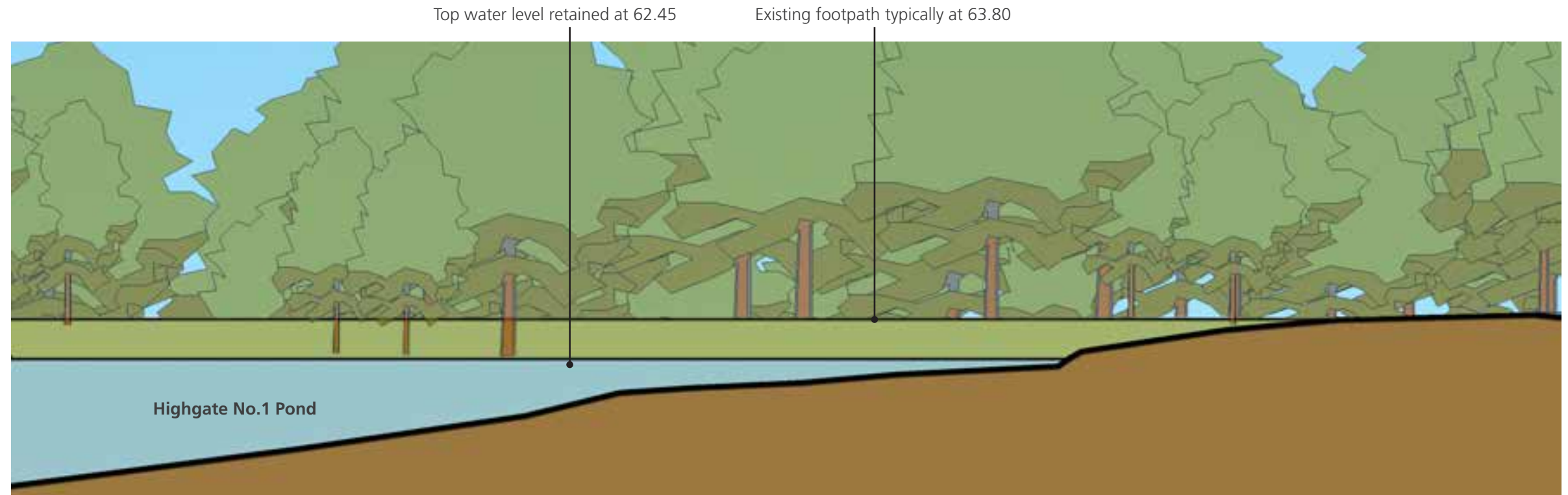
Highgate No.1 Pond - Proposed Elevation Location Plan

Key

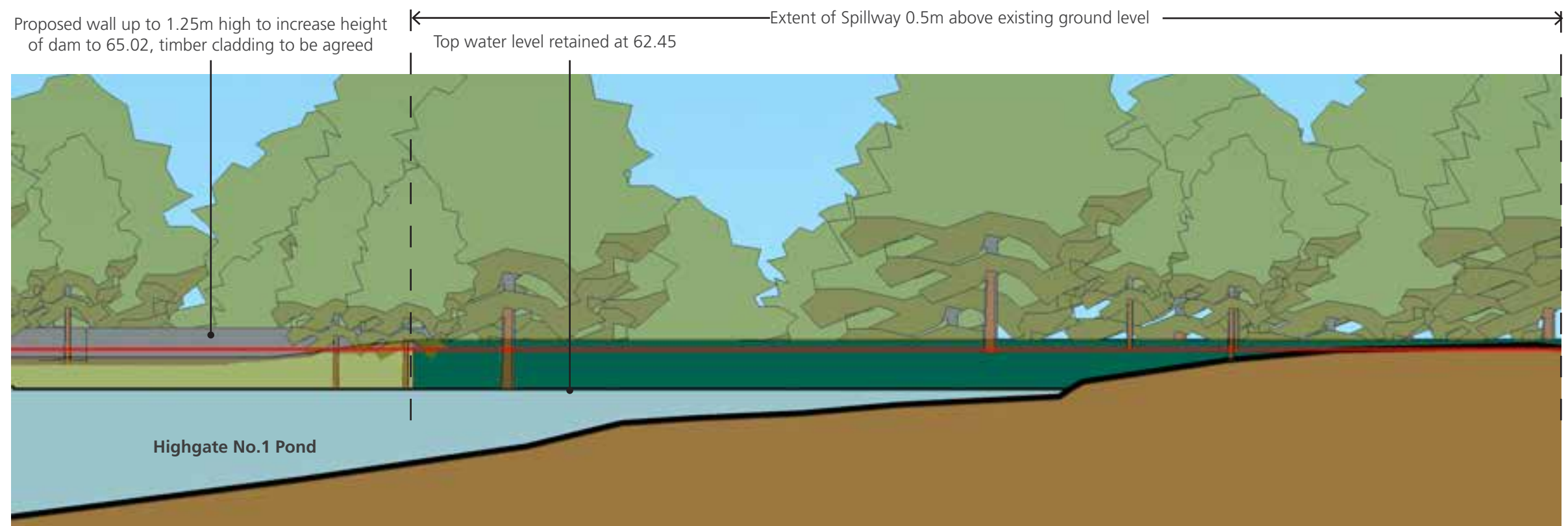
↓ ↓ Downstream view

↑ ↑ Detail Sections

↑ ↑ Upstream view



Highgate No.1 Pond Downstream View Existing Elevation



Highgate No.1 Pond Downstream View Proposed Elevation

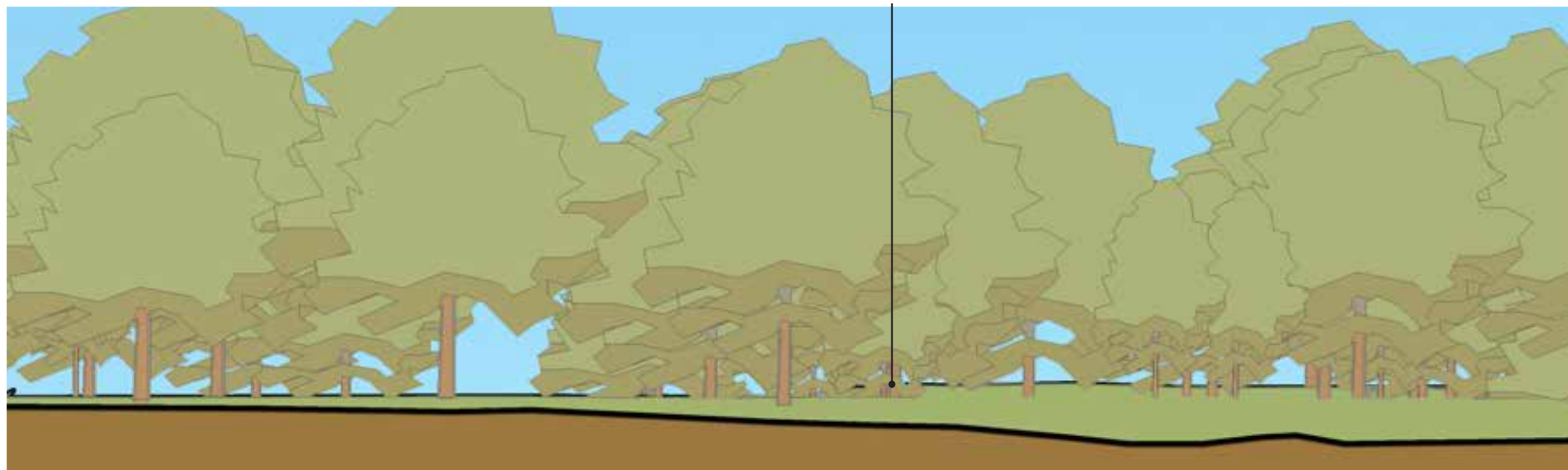


SCALE 1:200 @ A3 (METRES)

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

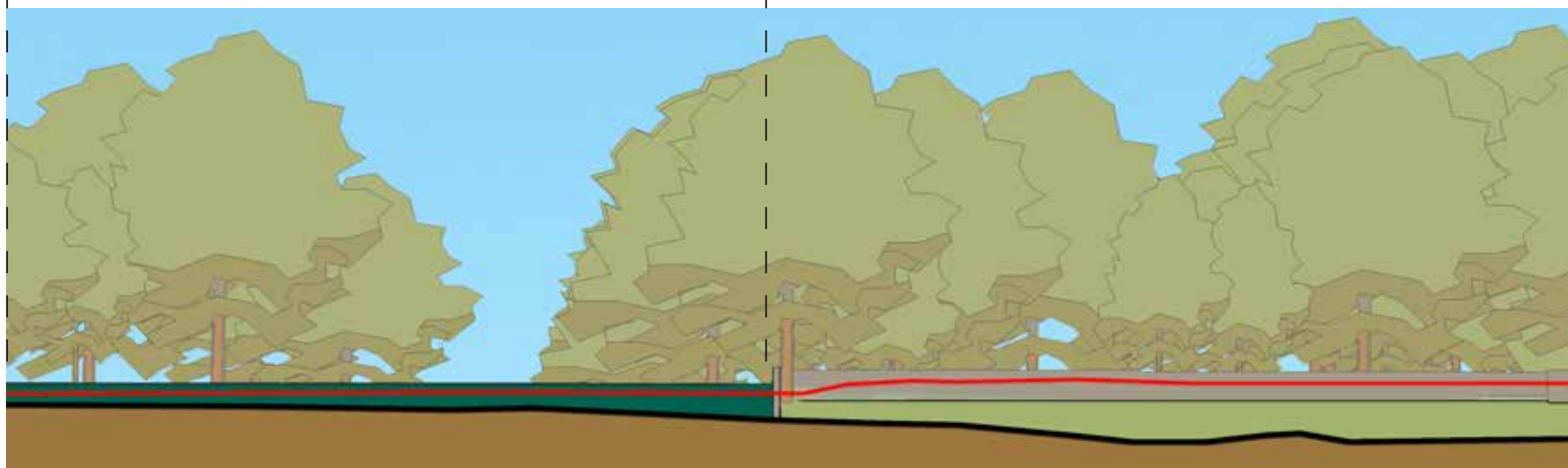
Existing footpath typically at 63.80m



Highgate No.1 Pond Upstream View Existing Elevation

← Extent of Spillway 0.5m above existing ground level → Proposed wall up to 1.25m high to increase height of dam to 65.02, timber cladding to be agreed →

Existing Ground Level



Highgate No.1 Pond Upstream View Proposed Elevation

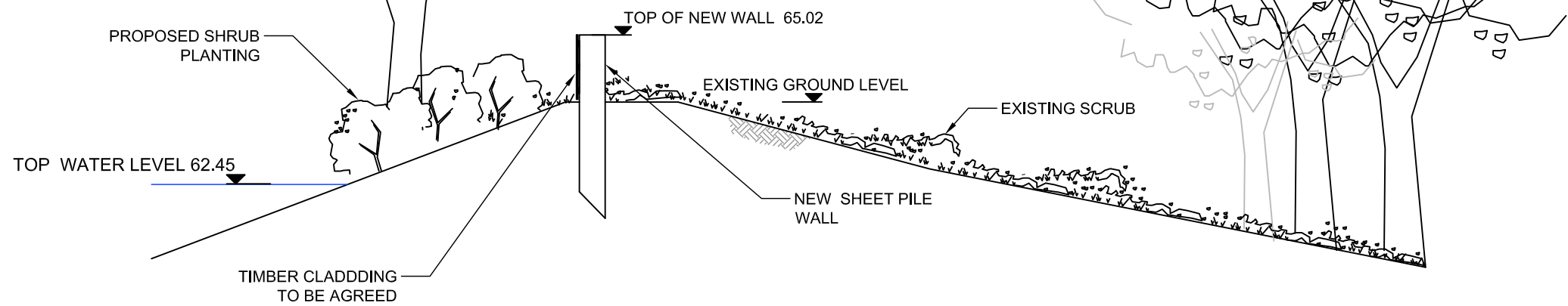


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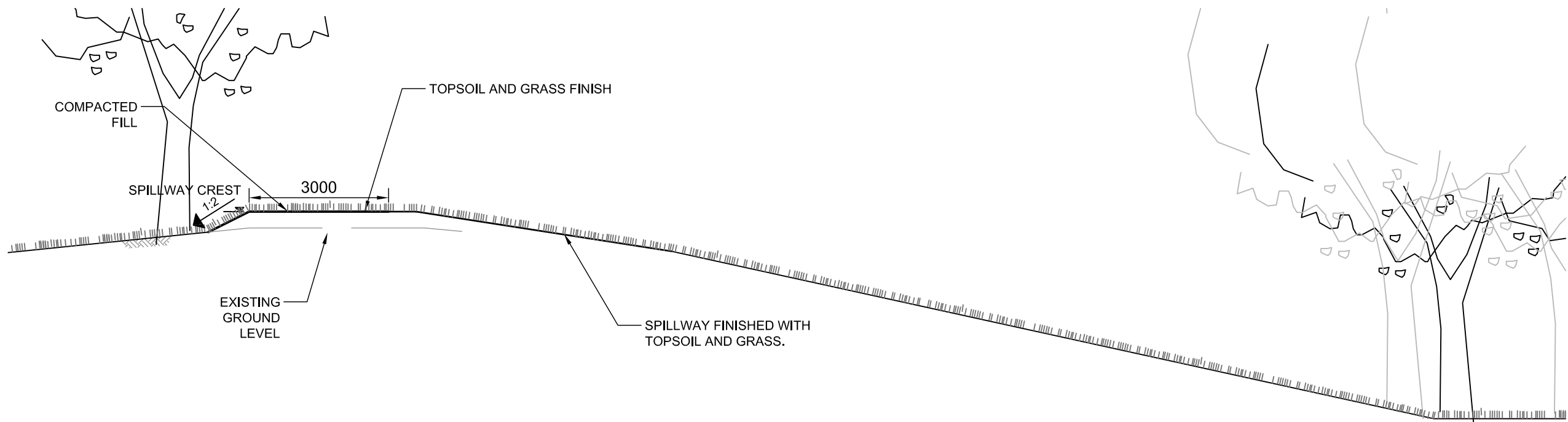
All dimensions in metres unless otherwise stated and levels in metres to Above Ordnance Datum (AOD) - the height or vertical datum used by an Ordnance Survey relative to the average sea level at Newlyn, Cornwall UK.

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

DO NOT SCALE



1 EMBANKMENT CROSS SECTION
SCALE 1: 100



2 SPILLWAY CROSS SECTION
SCALE 1: 100

Drawing Status		FOR IPLANNING			Suitability
					S2
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Project Title		HAMPSTEAD HEATH PONDS PROJECT			
Drawing Title		HIGHGATE NO.1 POND			
Scale	Designed	Drawn	Checked	Authorised	
1:100	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		5117039-ATK-P6-ZZ-DR-L-7009			Revision
					P2

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