



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

2.59 – Indicative Design for Ponds

**The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)
Planning Act 2008**

Author: CH2M

Date: November 2019



Document Index

2.59	Indicative Design for Ponds	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)	467470.BQ.04.20-SK455 – 593 Rev A
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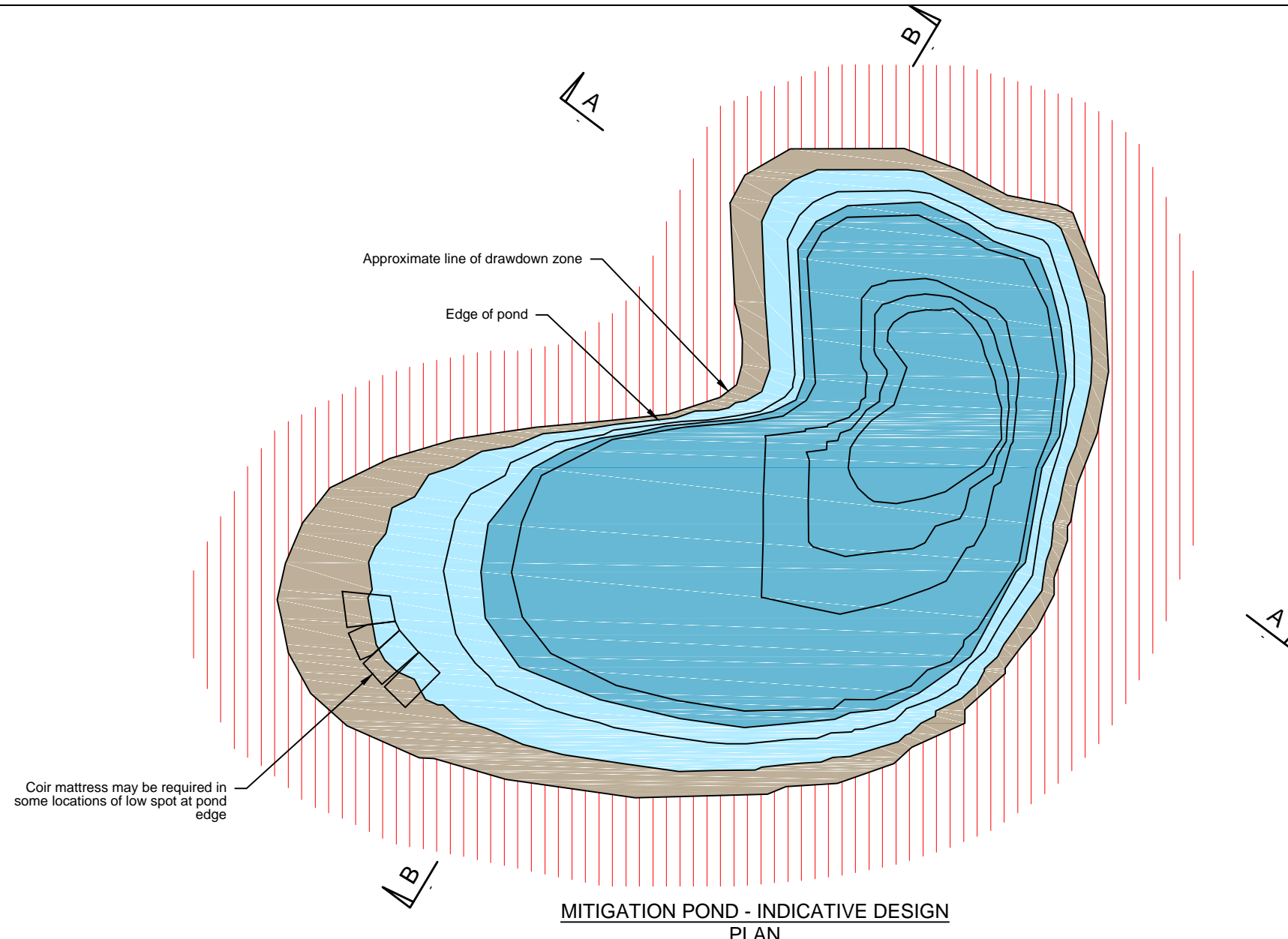
NOT TO SCALE

Slopes from water level to ground levels and within the drawdown zone shall not be steeper than 1:20 at approx. 20% of pond perimeter .

The shape of the pond can and should be tailored to fit the site conditions at the time of construction assuming the following design parameters are adhered to;

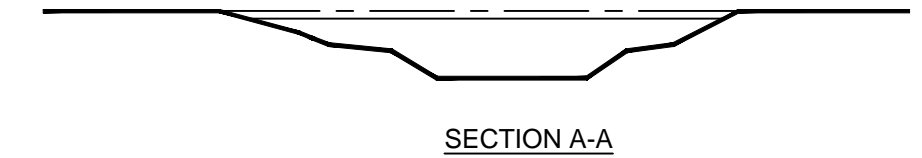
1. The total surface area of the pond should be between 100m² and 300m²;
2. Depth may vary; from 4m to a minimum of 1.5m;
3. Slopes from existing ground level to zone 3 (or retained water level) should be no steeper than 5% (1:20) for a minimum of 20% of the pond parameter;
4. The ratio of maximum pond length to maximum pond width should be no greater than 4:1

TABLE OF POND PLANTING	
Planting zone	Planting specification
Zone 1	Plants that have lower water requirements. However this is dependant on surrounding habitats.
Zone 2	Marginal plants with medium water requirements. They can survive periods of water inundation as well as periods of drying.
Zone 3	Marginal plants that require constant water logging.
Zone 4	Submerged aquatic plants that require to be submerged all year round, and floating plants.



Coir mattress may be required in some locations of low spot at pond edge

MITIGATION POND - INDICATIVE DESIGN PLAN



SECTION A-A



SECTION B-B

KEY

- Planting Zone 1
- Planting Zone 2
- Planting Zone 3
- Planting Zone 4

Rev	By	Chkd	Appvd	Date	Description
A	FG	DM	CF	31/10/2019	Final

travelwest
Bath & North East Somerset, Bristol, North Somerset and South Gloucestershire
 Councils working together to improve your local transport

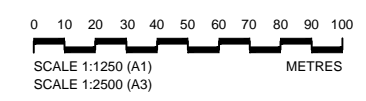
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Project
**PORTISHEAD BRANCH LINE
 (METROWEST PHASE 1)**

Drawing
INDICATIVE POND DESIGN

Drawn by: FG	Date: 31/10/2019
Checked by: CF	Date: 31/10/2019
Approved by: CF	Date: 31/10/2019
Drawing No.	Revision
467470.BQ.04.20-SK455	A



Drawing Scale: AS SHOWN

Drawing file path & name: \\strapp\p\proj\Consulting\Projects\161646\NSC-2018 Bristol Frameweave\161646\BQ.04.20\PW support Nov. 18 to Mar. 17\161646_BQ.04.20_SK455.dwg