Additional amenity features to be considered such as interpretation boards, benches, scrub planting, and additional paths / bridges.

Back water channel to divert high flows into a wetland area when downstream culvert is at capacity.

Pond edge to be reprofiled and vegetated to reduce erosion. Pond edges to including marginal shelves to provide shallow aquatic habitats.

Pond bed to have an average depth of 2 m, with pockets of various depths to create a variety of habitats.

Marginal reed bed to improve water quality and create wetland habitat for amphibians and reptiles.

Trash screen to be amended to reduce rate of material build up. Flow control to be modified by raising the sluice 0.5m

Wet woodland planting along the channel margin and around the edge of the wetland areas.

Bird and bat boxes to be added where possible in existing trees.

Brash fronted berms around the existing island to stabilise the banks to reduce sediment input. Additional planting on the island to be considered.

A connection point between the river and pond will be established that will allow flow above low flow conditions to enter the pond. At the downstream end a connection point will be constructed leading from the pond to the river, enabling overflow to exit the system.

Raised area for a marginal wetland, planted with reeds, located at the outfall of a surface water sewer.

Spoil re-use to create undulating landscape with areas of higher for native trees based on ecology recommendation.

Additional area of pathway to allow for desilting of the marginal wetland settling pool.

Additional path with small clear span bridge over the watercourse and seating areas.

Footpath set to the height of top of bank. Material of all new paths proposed as Breedon gravel to allow for access for maintenance.

Spoil re-used to enlarge the existing island and define a new narrow channel. Planted with trees to deter Canada geese.

Brash berm / willow spilling to provide bank protection from the flow exiting the secondary channel during high flow events.

All reprofiled areas are to be seeded with appropriate mixes for the inundation rate, such as wet meadow mixes.

Main channel is estimated to be 3.9 m at bank full width and 1 m deep. This depth includes a 1.4 m wide low flow channel within the main channel, 0.5 m wide at the base, designed to overtop into the main channel at Q50. The smaller channel will concentrate flow to support fish passage, and also create higher velocities to flush sediment out of the system. This will keep the gravel bed clean, which is a characteristic of healthy chalk streams.

Hibernacula and log piles along the waterbody edges to provide refuge for amphibians, reptiles, small mammals, and invertebrates.

Secondary channel, through an area of wetland, to provide additional capacity during high flow events.

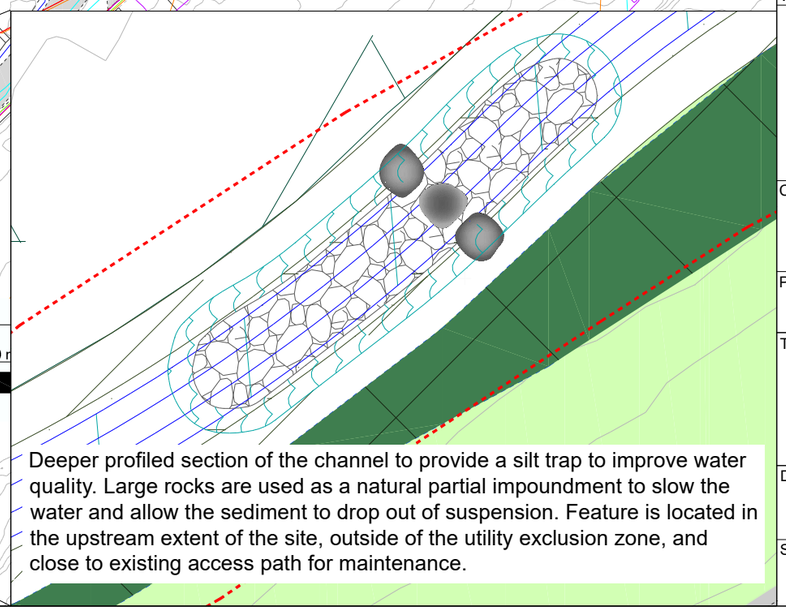
Additional path with small clear span bridge over the watercourse, picnic bench, and log circle seating.

Existing wet woodland proposed to be enhanced with additional willow planting.

Railway line.

CS1 CS2 CS3 CS4

10 m



Deeper profiled section of the channel to provide a silt trap to improve water quality. Large rocks are used as a natural partial impoundment to slow the water and allow the sediment to drop out of suspension. Feature is located in the upstream extent of the site, outside of the utility exclusion zone, and close to existing access path for maintenance.

NORTH Indicative

Key:

- Existing Road / Track
- Existing vegetation
- Existing Islands
- Cross Section Lines
- Contour Lines (1m)
- Proposed Island / New Made Ground
- Existing Compacted Gravel Pathways
- Proposed Addtional Pathways
- Proposed Embankment to Raised Pathway
- Proposed Dead Hedge
- Proposed Culverted Pond Connections
- Proposed Hibernacula
- Proposed Picnic Benches / Seating
- Proposed Naturalised Silt Trap
- Proposed Deciduous Woodland Planting
- Proposed Wet Woodland Planting
- Proposed Wet Woodland Enhancement
- Proposed Island Expansion
- Proposed Channel
- Proposed Channel Bank Regrading
- Proposed Brash Berms
- Proposed Wetland Area
- Proposed Marginal Planting
- Proposed Sloped Pond Edge / Marginal Shelf
- Retained Pond

Utilities: Type C: Desk study and site reconnaissance

- Utility Exclusion Zone
- All Point Fibre
- BT Openreach
- Indigo Pipelines
- SGN - Low Pressure Mains
- SGN - Medium Pressure Mains
- South East Water
- SSEN
- Road Drainage

General Notes:

1. All dimensions shown in metres unless otherwise stated and levels in metres to ordnance datum (mAOD).
2. Utility search undertaken in June 2026 for the design phase of the project.
3. Relevant consent to be sought before the construction phase.
4. Construction works to be undertaken by a competent contractor with experience installing river and habitat restoration works.
5. Designs are semi-indicative. The exact location of proposed features should be determined onsite by a suitably qualified geomorphologist.
6. FiveRivers Environmental Contracting take no responsibility for the detrimental placement of in-channel features without appropriate supervision from a qualified geomorphologist.
7. Existing in-channel/marginal vegetation should be maintained wherever possible.

Design Assumptions:

1. Design is based on the assumption that the Defra LiDAR is accurate and fit for purpose.
2. Design assumes there is appropriate access for required machinery to conduct necessary works.
3. Assumes no protected species on site.
4. Design assumes there are no hidden hard structures within the banks.
5. Design assumes site won material is suitable for use in margins.

NOT FOR CONSTRUCTION

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Ver.	Ver. Date	Status	Drawn	Check'd	Apprv'd
5	28/10/2026	FOR ISSUE	LT	ENJ	JE

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Client: ALTON Town Council

Project: 5080D - Kings Pond Phase 1

Title: River and Pond Overview

Drawing number: 5R-5080D-201

Scale: 1:1500 @ A3