

SAFETY, HEALTH AND ENVIRONMENT

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORKS DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS:

ENVIRONMENTAL

1. Works area to be checked for ground nesting birds;
2. Works not to start until after March unless a qualified person has checked for trout redds and found none.

Services onsite:

1. National Grid (UKPN) Underground Electricity Cable.

CONSTRUCTION

1. Risk of injury/death to public inappropriately accessing the site;
2. Working near/in/over water;
3. Existing traffic systems on and adjacent to the site (road, public rights of way);
4. Risk of hitting known or unknown underground utilities;
5. Risk of collision by plant with overhead utilities;
6. Manual handling;
7. Lifting & crushing risks.

MAINTENANCE/CLEANING/OPERATION

1. Risk of injury/death to public inappropriately accessing the site;
2. Working near/in/over water;
3. Existing traffic systems on and adjacent to the site (road, public rights of way);
4. Manual handling.

DECOMMISSIONING/DEMOLITION

1. Risk of injury/death to public inappropriately accessing the site;
2. Working near/in/over water;
3. Existing traffic systems on and adjacent to the site (road, public rights of way);
4. Manual handling.

Specifications for Works

1. Site won soil from regraded areas to be used to fill berms - 13 cubic metres / 24 tonnes required for this site.
2. 2.5mm heavy duty steel wire.
3. ~ 300 mm diameter wood bundles to be used for brush & gravel berm fronts, to be staked in place with 1.8 x 0.075 m chestnut posts; 75 m length required for this site.
4. 1 x 1.5 m 300 - 500 mm diameter woody deflector, to be pinned in place with 1.8 x 0.075 m chestnut posts.
5. 20 to 40 mm diameter flinty gravels for gravel berm - 2 cubic metres / 4 tonnes required for this site, to be imported, ideally from local source / within catchment.
6. Total volume of riffle gravel at this site is 6 cubic metres / 11.6 tonnes - to be imported, ideally from local source / within catchment.
7. Contractor to manage volumes.
8. Excess spoil to be spread on allocated area, outside of flood plain, in Barn Meadow Recreation Ground (88 cubic metres / 162 tonnes in total expected from both sites).

SAFETY, HEALTH, AND ENVIRONMENT (S.H.E) INFORMATION BOX

SAFETY AND HEALTH ISSUES

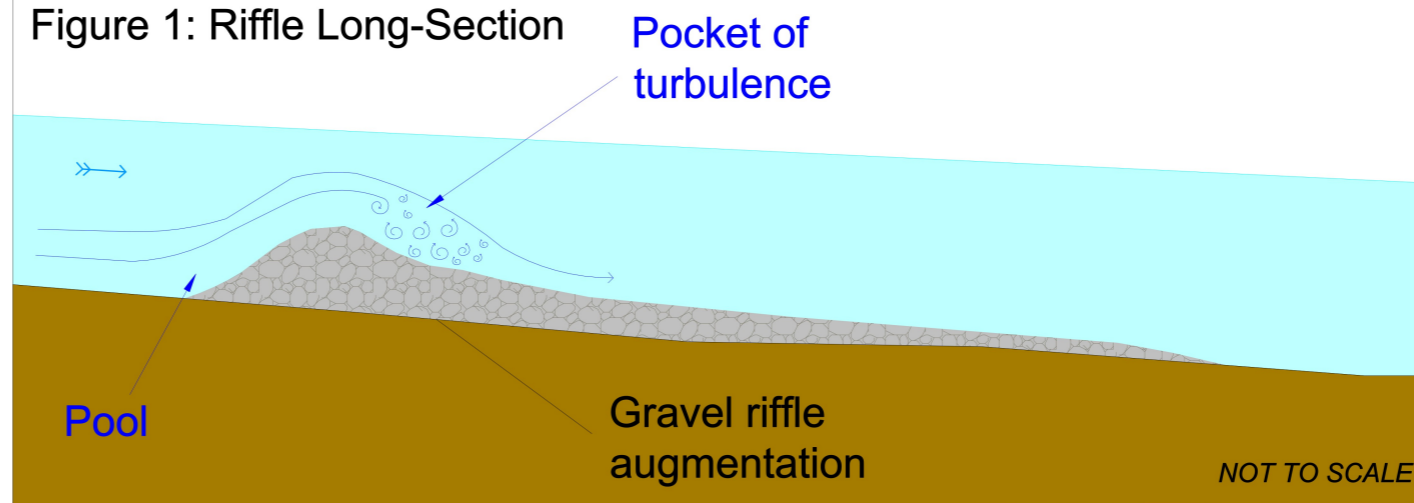
SPECIFIC RESIDUAL HAZARDS HAVE BEEN IDENTIFIED ON THE DRAWING WITH THE FOLLOWING SYMBOLS

KEY	DETAILS
	Existing traffic systems within and adjacent to the site (roads, public rights of way)
	Utilities
	Manual handling
	Working in and around water



Earth berms constructed to depth of 0.2 m (approximate mean flow height) and fronted with brushwood. Introduces sinuosity with minimum open channel of 2.5 m retained at berm top. All berms to be plug-planted and hydro-seeded.

Figure 1: Riffle Long-Section



Hand-dug low flow channel, no more than 2.5 m wide and 0.2 m deep. Bed material to be redistributed by hand to the side of the channel - to a maximum change in depth of 200 mm - to both create a consistent incline between cross-sections 1 and 9 and to offset reduction in flow conveyance from berms etc. Dimensions of low-flow channel to match adjacent berms, where applicable. Expected volume of redistributed gravels is 118.0 cubic metres / 75.2 tonnes.

Distance between footbridge foundations and bank regrade section to be at least 1 m to avoid eroding foundations.

Open section of bank regraded for 9 m with installation of well-secured gravel berm to provide safe access.

Gravel augmentation at regular intervals to refresh habitat and diversify bed form; riffles created by graduating depth of gravel as shown in figure 1. Maximum depth of gravel not to exceed 0.2 m.

Footpath to run along edge of fencing during construction.

High St drainage outlets at the Methodist Church and Eagle PH to be kept clear with berms opposite to speed up flow.

Stretch of visibly undermined wall to be protected by installation of berm in front.

Existing debris screen maintained with no features installed in proximity.



Key:

- River Misbourne
- Trees
- Private bridges
- Movable street furniture (bin/ bench)
- Drainage outfall
- Footpath (PRoW)
- Access
- Floodzone 3
- Floodzone 2
- Tree Trunk & Root Protection Area
- Proposed brushwood berm
- Proposed bank regrading
- Proposed gravel bar
- Proposed gravel riffle
- Proposed wooden flow deflector
- Proposed loss in depth of bed material in redistribution
- Proposed addition to depth of bed material in redistribution

Utilities:

- Cadent Gas medium pressure mains
- Cadent Gas low pressure mains
- BT Openreach
- Thames water foul sewer line
- Thames water surface water sewer line
- UKPN LV
- UKPN Underground
- Affinity water distribution main

General notes:

1. All dimensions shown are in metres, unless otherwise stated, to ordnance datum;
2. All excavations to avoid root protection zones;
3. All woody deflectors in channel to be 300-500mm diameter, unless stated otherwise. All secured with log posts and 2mm galvanised wire;
4. Riffles created from locally sourced flinty gravels, 20 - 40 mm in diameter, and to be no more than 200 mm maximum depth;
5. No slopes to be created above 1:3 incline.

FOR CONSTRUCTION

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Ver.	Ver. Date	Status	For Issue	OE	AMcD	DMA
5	24/02/2023					



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Client



Project 3159D - Barn Meadow Detailed Design

Title Barn Meadow Design Planview

Drawing number 5R-3159D-101

Scale 1:500 @ A3