



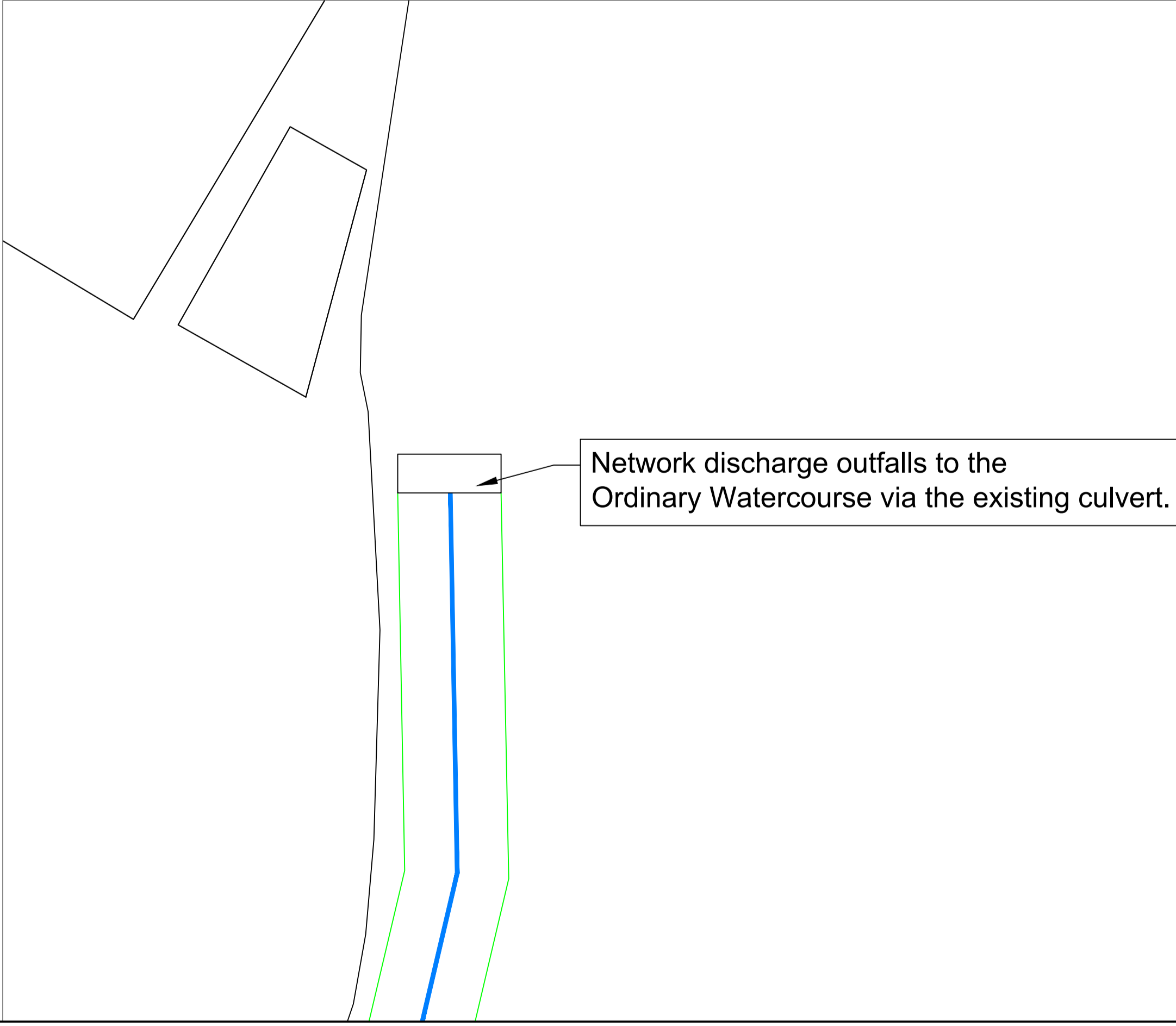
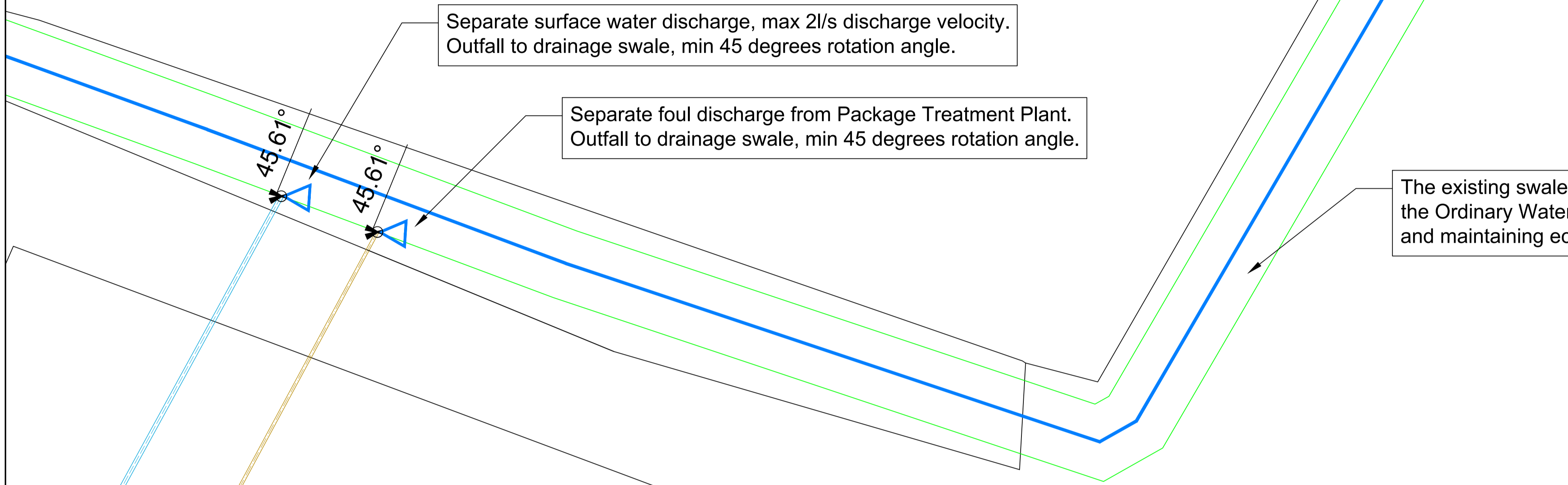
Existing swale containing dense reeds and varied natural vegetation, functioning as a biodiverse drainage corridor that enhances ecological value and supports the overall performance of the SuDS system.

HEADWALLS TO SWALE (45° ANGLED OUTFALLS):
 Provide precast concrete headwalls aligned at 45° to the direction of swale flow, in accordance with EA FRA12 conditions (30°–60° allowable angle).
 Surface Water (150 mm): Althon AH3 150 (angled type) with toe apron.
 Foul (100 mm): Althon AH3 100 (angled type) with flap valve (emergency overflow only).
 Headwall height ≤ 1.5 m. Install per manufacturer details with geotextile underlay, granular bedding, and erosion protection to apron and swale bed.

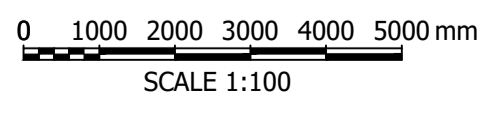
Separate surface water discharge, max 2l/s discharge velocity. Outfall to drainage swale, min 45 degrees rotation angle.

Separate foul discharge from Package Treatment Plant. Outfall to drainage swale, min 45 degrees rotation angle.

The existing swale follows a gentle, continuous fall toward the Ordinary Watercourse, supporting natural flow conveyance and maintaining ecological function along its length.



Network discharge outfalls to the Ordinary Watercourse via the existing culvert.



Notes

- All dimensions are in meters and all levels are meters above ordnance datum unless otherwise stated.
- This drawing is to be read in conjunction with all other project drawings and documentation.
- This drawing is to be used only by those to whom it has been formally issued, by Countywide Consulting Engineers or the Client.
- Only written dimensions shall be used. Critical dimensions and levels shall be verified on site by the contractor prior to work commencement.
- Any discrepancies in dimensions or details on or between these drawings shall be drawn to the attention of the project manager for clarification.



FOR APPROVAL

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Project Name
**Land adjacent to 110 Ribchester Road
 Clayton Le Dale BB1 9EE**

Sheet Title
Drainage Outfall Arrangement

CCE Project Number	Drawn By	Date	Checked By	Date	Issued By	Date	Scale @ A1	Suitability
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MAS01	- CCE	- XX	- XX	- DR	- C	- 0002		P01