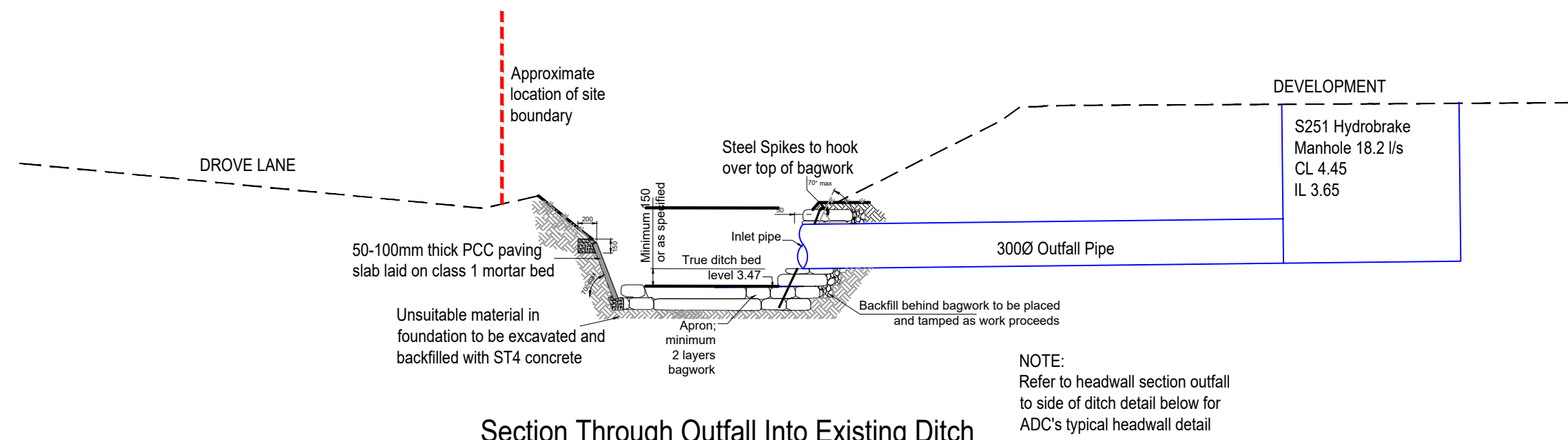




Permeable geotextile to wrap granular fill below base of pond.

Backfill

Suitable (stone free) excavated material to be used as backfill. Minimum cover of 0.3m where possible in accordance with Aquacell guidance. Depth of cover will vary across the site.

Minimum 100mm thick sand bedding course to be laid over sub-formation, with Landflex G3000CBR protective geotextile installed above bedding course.

Geocellular units (1 x 0.5 x 0.4m Dp) with a minimum 95% void ratio, to form below ground attenuation tank. Aquacell (Core-R) units or equally approved. To be installed and vented strictly in accordance with the manufacturers recommendations.

Impermeable membrane to completely surround geocellular units and base of pond. Protective fleece to be placed over the geotextile wrap prior to backfilling and surrounding with granular material.

150mm Grassed / turfed layer to Landscape Architects details

Suitable (stone free) excavated material to be used as backfill.

1 in 3 max

1 in 3 max

800 max centres

45°

125

Outlet pipe

500 nom

Staked with hooked 12mm reinforcing bar

50-100mm thick PCC p... laid on 50mm class 1 m... (if required)

**ELEVATION OF HEADWALL  
OUTLET FROM END OF DITCH**

800 max centres

125

Outlet pipe

500 nom

**ELEVATION OF HEADWALL**

**OUTLET FROM END OF DITCH (WITH SUMP)**

See note 4 for width

800 max centres

125 mm

500 mm

Staked with hooked 12mm reinforcing bars

Inlet pipe

**ELEVATION OF HEADWALL**  
OUTFALL TO SIDE OF DITCH

The drawing consists of two parts: a cross-section and an elevation view.

**Cross-section:** Shows a ditch with a sloped headwall on the left and a flat base. The headwall is 45° and 125 units high. The base is 500 units wide. The headwall is constructed with a 50-100mm thick PCC paving slab laid on a 50mm class 1 mortar bed (if required). The slab is staked with hooked 12mm reinforcing bars. The spacing between the bars is 800 max centres. An inlet pipe is shown at the base of the headwall.

**Elevation View:** Shows the headwall from the side, with the text "ELEVATION OF HEADWALL OUTFALL TO END OF DITCH" below it.

Steel Spikes to hook over top of bagwork

50

Outlet pipe

Min. 1000 or as specified

**HEADWALL SECTION**

OUTLET FROM POND / END OF DITCH (WITH SUMP)

- #### Headwall Notes
1. All measurements are in millimetres unless otherwise stated
  2. Bags shall be of Hessian and shall be of a size to provide a wall thickness of 500mm.
  3. Concrete bagwork shall be to Clause 519 and be three quarter filled with 25mm slump ST4 concrete immediately prior to placing with the ends sewn.
  4. The bags shall be placed in a modified Flemish bond so as to 'break joint' with the mouths away from the surface and be tamped into position to form a rectangular block.
  5. Extent of outlet protection to be the greater of 1500mm or pipe diameter + 1200mm spanning the outlet pipe.
  6. Headwall design may need to be adjusted to on site conditions following approval from WBC/ADC Engineer.
  7. Ditch to be regraded as requested.
  8. All exposed pipework to be certified UV stable
  9. Pipe details to be as specified on supporting drawings.

**HEADWALL SECTION**

**OUTLET FROM POND / END OF DITCH (WITH SUMP)**

Labels in diagram:

- Steel Spikes to hook over top of bagwork
- Water level and depth of ditch/stream varies.
- 50
- Outlet pipe
- Minimum 300
- True ditch bed level
- Backfill behind bagwork to be placed and tamped as work proceeds
- Apron: minimum 2 layers bagwork
- Unsuitable material in foundation to be excavated and backfilled with ST4 concrete

HEADWALL SECTION  
OUTLET FROM POND / END OF DITCH (WITH SUMP)

Foundation backfilled

Steel Spikes to hook over top of bagwork

Water level and depth of ditch/stream varies.

Flow

Inlet pipe

Minimum 150 or as specified

True ditch bed level

Apron; minimum 2 layers bagwork

Unsuitable material in foundation to be excavated and backfilled with ST4 concrete

Min. 1000 or as specified

HEADWALL SECTION  
OUTFALL TO POND / END OF DITCH

HEADWALL SECTION  
OUTFALL TO POND / END OF DITCH

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.  
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

|      |            |                                                         |       |       |       |
|------|------------|---------------------------------------------------------|-------|-------|-------|
| K    | 11.02.2022 | Outfall section added as per LLFA comments.             | AM    |       |       |
| J    | 14.12.2021 | SUDs details updated to LLFA comments.                  | AM    |       |       |
| H    | 06.12.2021 | SUDs details updated to LLFA comments.                  | AM    |       |       |
| G    | 29.10.2021 | SUDs details updated to LLFA comments.                  | MFP   |       |       |
| F    | 27.07.2021 | SUDs details updated to LLFA comments.                  | AM    |       |       |
| E    | 15.06.2021 | SUDs details updated to LLFA comments.                  | AM    |       |       |
| D    | 11.05.2021 | SUDs details updated to LLFA comments.                  | AM    |       |       |
| C    | 18.03.2021 | SUDs types cross referenced to updated drainage layout. | AM    |       |       |
| B    | 15.01.2021 | Permeable paving connection to network detail added.    | SM    |       |       |
| A    | 01.10.2020 | Issued to support reserved matters application          | SM    |       |       |
| Rev. | Date       | Amendment                                               | Drawn | Chkd. | Appd. |

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Client

Project Title

DROVE LANE,  
YAPTON

Status **PRELIMINARY**

Drawing title

TYPICAL SUDS DETAILS  
SHEET 2 OF 2

|                       |         |           |                                                     |            |      |
|-----------------------|---------|-----------|-----------------------------------------------------|------------|------|
| Drawn                 | Date    | Checked   | Date                                                | Approved   | Date |
| SM                    | 07.2020 |           |                                                     |            |      |
| Scale                 |         | Orig Size |                                                     | Dimensions |      |
| NTS                   |         | A1        |                                                     | Metres     |      |
| Project No:<br>133647 |         |           | Drawing File<br>PLN_1_4101 Typical SUDs details.dwg |            |      |
| Drawing No.           |         |           |                                                     |            | Rev. |
| PLN 1 4103            |         |           |                                                     |            | K    |