

Drainage Strategy

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1. Introduction

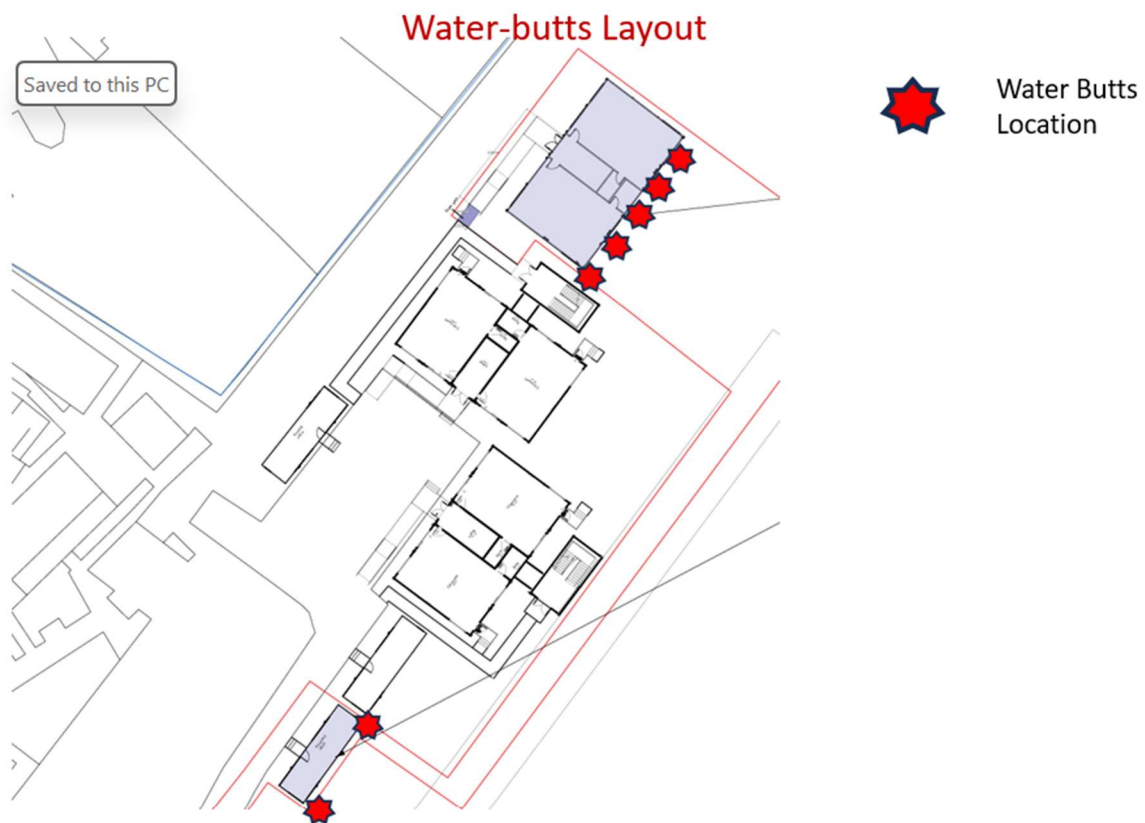
This Surface Water Drainage Strategy has been prepared to support a planning application for the installation of a temporary Portakabin classroom building within an existing school site.

The strategy outlines how surface water runoff generated from the proposed structure will be sustainably managed in accordance with best practice principles, ensuring no increase in runoff rates or flood risk.

2. Proposed Development

The proposal consists of a temporary Portakabin classroom building. The structure will include five downpipes to collect roof runoff.

Given the temporary nature of the building, a simple, sustainable, and low-impact drainage solution has been developed.



3. Surface Water Drainage Strategy

4.1 Design Principles

The drainage design follows key sustainable drainage system (SuDS) principles:

- Manage runoff at source
- Promote water reuse
- Ensure no increase in surface water discharge
- Avoid connection to existing drainage networks where feasible

4.2 Proposed Drainage Arrangement

Rainwater falling on the roof of the Portakabin will be collected via the five downpipes, each of which will be connected directly to water butts.

Key features of the system include:

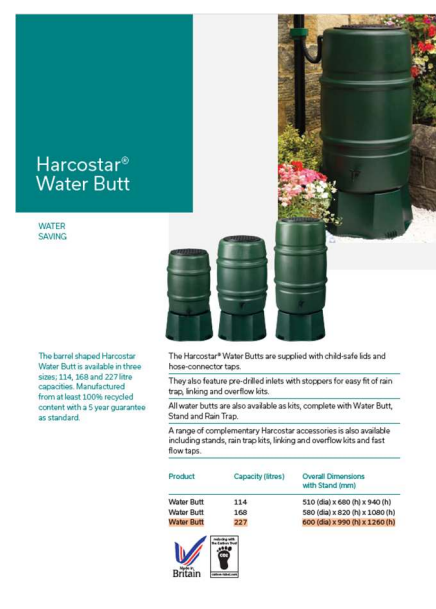
- **Rainwater Harvesting:**
Each downpipe will discharge into a dedicated water butt to store roof runoff.
- **Reuse of Collected Water:**
Harvested water will be used by the school for irrigation of existing planting areas across the site, reducing potable water demand and providing environmental benefits.
- **Source Control:**
The strategy ensures that runoff is managed entirely at source, eliminating the need for discharge to the wider drainage system under normal operating conditions.

4.2.1 Water Butt Specification

Harcostar® water butts will be used with the following specification:

- Proposed capacity: 227L
- Manufactured from 100% recycled content
- Supplied with child-safe lids and hose connector taps
- Pre-drilled inlets for rain trap and overflow connections
- Installed on stands to provide adequate flow for irrigation use

The selected units will provide sufficient storage capacity to manage typical rainfall events.



4.3 Capacity and Overspill Management

Water butts will be sized appropriately to accommodate typical rainfall events.

To ensure the system operates effectively:

- The school will implement a regular inspection and maintenance regime to monitor water levels.
- Stored water will be regularly utilised for irrigation purposes to maintain available capacity.

The management approach ensures there is no risk of uncontrolled discharge or surface water flooding.

5. Management and Maintenance

The ongoing operation of the drainage system will be the responsibility of the school.

Maintenance measures will include:

- Regular inspection of water butts and connections
- Ensuring downpipes remain clear and functional
- Routine use of stored water to maintain storage capacity

- Immediate resolution of any blockages or leaks

This proactive management will ensure the continued effectiveness of the drainage strategy and prevent overspill.

6. Conclusion

The proposed surface water drainage strategy provides a simple, effective, and sustainable solution for managing runoff from the temporary Portakabin classroom.

By collecting and reusing rainwater via water butts, the system:

- Eliminates the need for external drainage connections
- Reduces water consumption
- Ensures no increase in surface water runoff

With appropriate management by the school, the system will operate efficiently with no risk of overspill or flooding which has been successfully implemented on previous Portakabin installations within close proximity within the school campus.