
Project:	Afan WwTW- IED Compliance Scheme		
Our reference:	B17497-123532-XX-XX-NN-CA-EI0064		
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Subject:	Drainage statement – Permanent Welfare Unit		

1 Introduction

Mott MacDonald Bentley (MMB) has been commissioned by Dŵr Cymru Welsh Water (DCWW) to complete permanent welfare work at Afan WwTW. This drainage statement outlines how drainage will be managed for new concrete base slab proposed to be installed for the new permanent welfare unit for DCWW Operations.

There will be permanent changes to the surface runoff. This document relates to the management of the surface runoff after installation of the permanent welfare unit on site.

2 Site location and existing drainage arrangements

The Permanent welfare will be situated at:

NGR: SS 760874

What3Words: cloak.insulated.loved

A reinforced concrete base slab will be provided across the full permanent compound area to adequately support the proposed welfare structures.

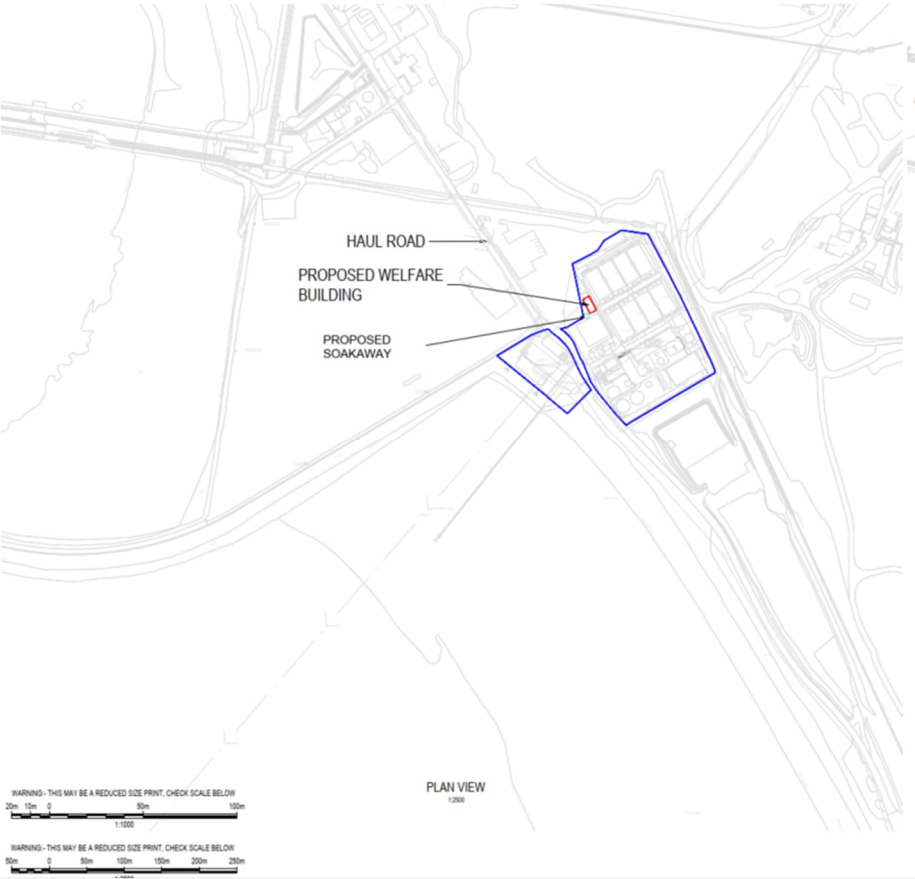
The permanent compound location is shown in Figure 2.1 and Figure 2.2.

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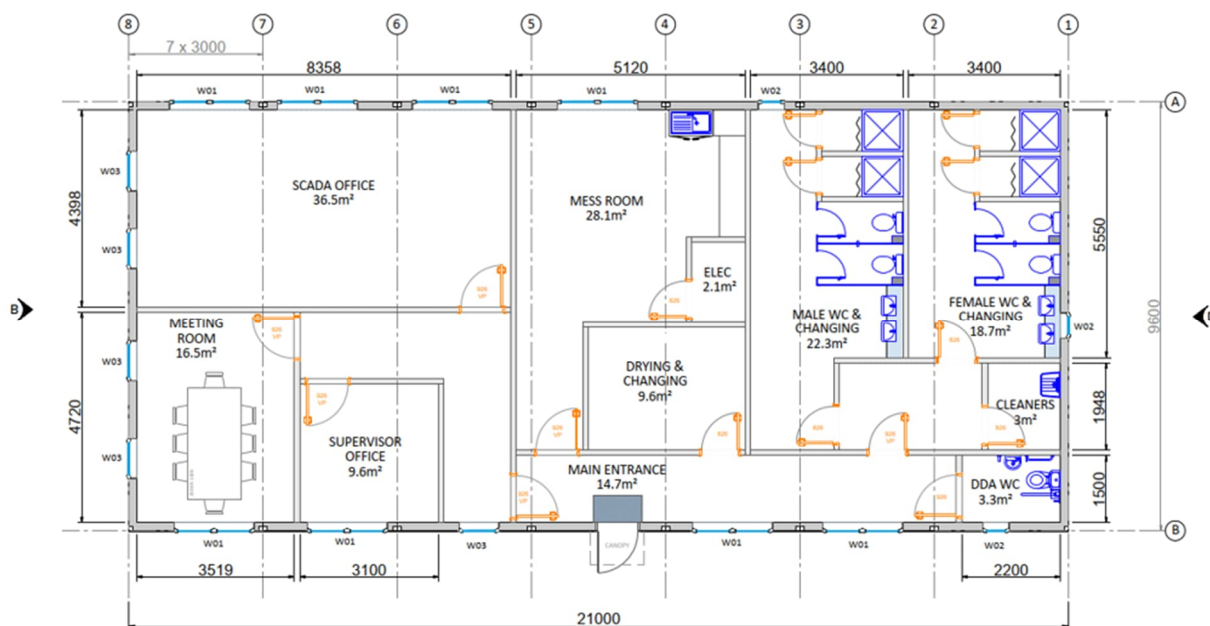
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Figure 2.1 Permanent Welfare Unit with Soakaway Location



Source: Sketch from B17497-123532-XX-XX-DR-ZA-SE1523

Figure 2.2 Permanent Compound Layout



Source: Extract from B17497-123532-XX-XX-DR-ZA-PN8502

3 How surface water will be managed and discharged

The SuDS Standards and Building Regulations require surface water to be discharged at the highest priority level available for that site.

Priority Level 1 – surface water runoff is collected for use.

It is proposed to install filter drains along the full perimeters of the welfare base slab together with roof-level guttering to capture runoff from the permanent welfare unit. The collected rainfall and surface water will be managed through the proposed soakaway. No reuse of the water is proposed within the site.

Priority Level 2 – surface water runoff is infiltrated to ground.

The proposed base slab for the welfare unit will be constructed as an impermeable surface. To effectively manage the surface water runoff, filter drains are proposed along the full length of the base slab to intercept and convey runoff generated from the hardstanding area. The collected surface water will be directed to a new soakaway located adjacent to the permanent welfare unit, where it will infiltrate into the ground in accordance with SuDS best practice.

Priority Level 3 – surface water runoff is discharged to a surface water body i.e. watercourse.

Not applicable.

Priority Level 4 - surface water runoff is discharged to a surface water sewer, highway drain, or another drainage system.

Not applicable.

Priority Level 5 – surface water runoff is discharged to a combined sewer.

Not applicable.

4 Pollution control

Refer to B17257-123532-12-ZZ-DR-NA-EI1012 Pollution Prevention Plan for Permanent Compound, which has been submitted with the supporting documentation for the planning application.