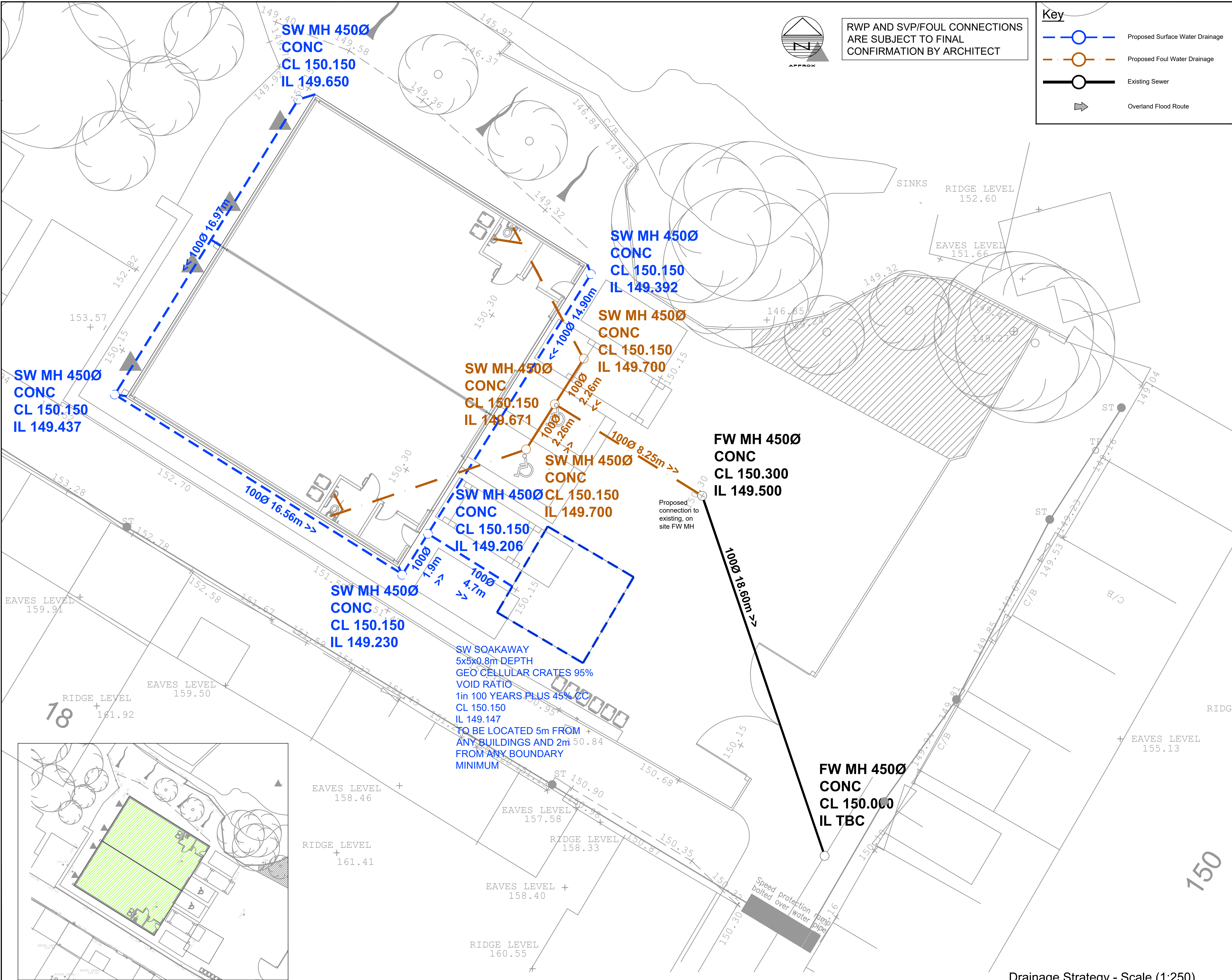


RWP AND SVP/FOUL CONNECTIONS
ARE SUBJECT TO FINAL
CONFIRMATION BY ARCHITECT

Key

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Sewer
- Overland Flood Route

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Status			
PRELIMINARY			
No.	Revision	Date	Drwn
P1	FIRST REVISION	23/09/26	OM

Drainage Strategy

The proposed development comprises the construction of two industrial units.

The site lies in flood zone 1 and is less than 1 hectare in area and therefore a site-specific Flood Risk Assessment is not considered necessary for this site.

In accordance with the surface water drainage hierarchy, surface water runoff from the proposed development will be disposed of by infiltration to ground via a geocellular soakaway.

Surface Water

Surface water runoff from the proposed development will be collected by a dedicated surface water drainage system and discharged to a proposed geocellular soakaway located within the site.

The proposed impermeable area is 0.028819 ha (288.19 m²).

The surface water drainage system has been modelled using Causeway Flow. The calculations indicate that a minimum attenuation/infiltration storage volume of 17.23 m³ is required to accommodate the critical 1 in 100 year rainfall event plus a 45% allowance for climate change.

A geocellular soakaway measuring:

5.0 m × 5.0 m × 0.8 m deep

is proposed. Based upon a geocellular crate void ratio of 95%, the proposed soakaway provides an effective storage volume of approximately:

5.0 × 5.0 × 0.8 × 0.95 = 19.00 m³

The soakaway is to be positioned a minimum of 5.0 m from buildings and 2.0 m from site boundaries.

Roof and external surface water drainage connections are to discharge to the proposed surface water system, with final RWP connections to be confirmed by the Architect.

Foul Water

Foul water from the proposed industrial units will discharge via a dedicated foul water drainage system to the existing foul water manhole located on-site.

The existing on-site foul drainage subsequently connects to the existing United Utilities foul water sewer within Caltha Street.

The contractor shall confirm the location, condition, invert level and suitability of the existing foul drainage connection prior to commencement of the drainage works. Any connection or alteration to the public sewerage system shall be undertaken in accordance with United Utilities requirements and approvals where applicable.

The proposed on-site foul drainage arrangement and connection to the existing foul water manhole are shown on the drainage strategy drawing.

Maintenance

The proposed surface water drainage system, including the geocellular soakaway, associated pipework and manholes, shall remain privately maintained unless agreed otherwise.

The owner/operator of the development shall be responsible for the inspection and maintenance of the private drainage system for the lifetime of the development. Maintenance shall include periodic inspection and cleansing of manholes, pipework and silt collection points, together with measures to prevent the accumulation of sediment within the geocellular soakaway.

The foul drainage system shall similarly remain privately maintained up to the point at which it connects into any drainage infrastructure under the responsibility of United Utilities.

Refer to DART Engineers maintenance schedule for further information.

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