

7.3 EXTERNAL LIGHTING STRATEGY

7.3.2 PROPOSED EXTERNAL LIGHTING STRATEGY

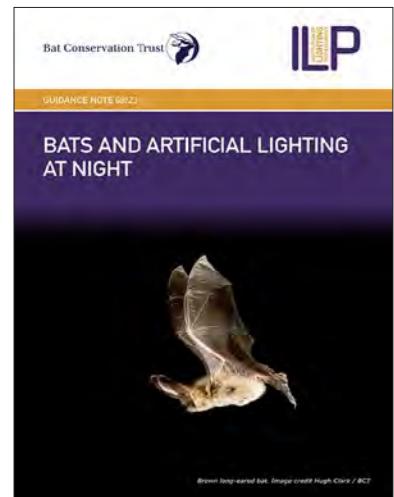
The proposed lighting is split into three categories:

- Back of house lighting
- Front of house functional lighting
- Front of house accent lighting

The proposed lighting design has been sensitively set out to follow the Institute of Lighting Professionals Guidance notes on 'Bats and Artificial Lighting at Night' dated August 23.

The design has taken into account mitigation measures listed in the table above to avoid impacts to bats, their roosts and their commuting and foraging habitats.

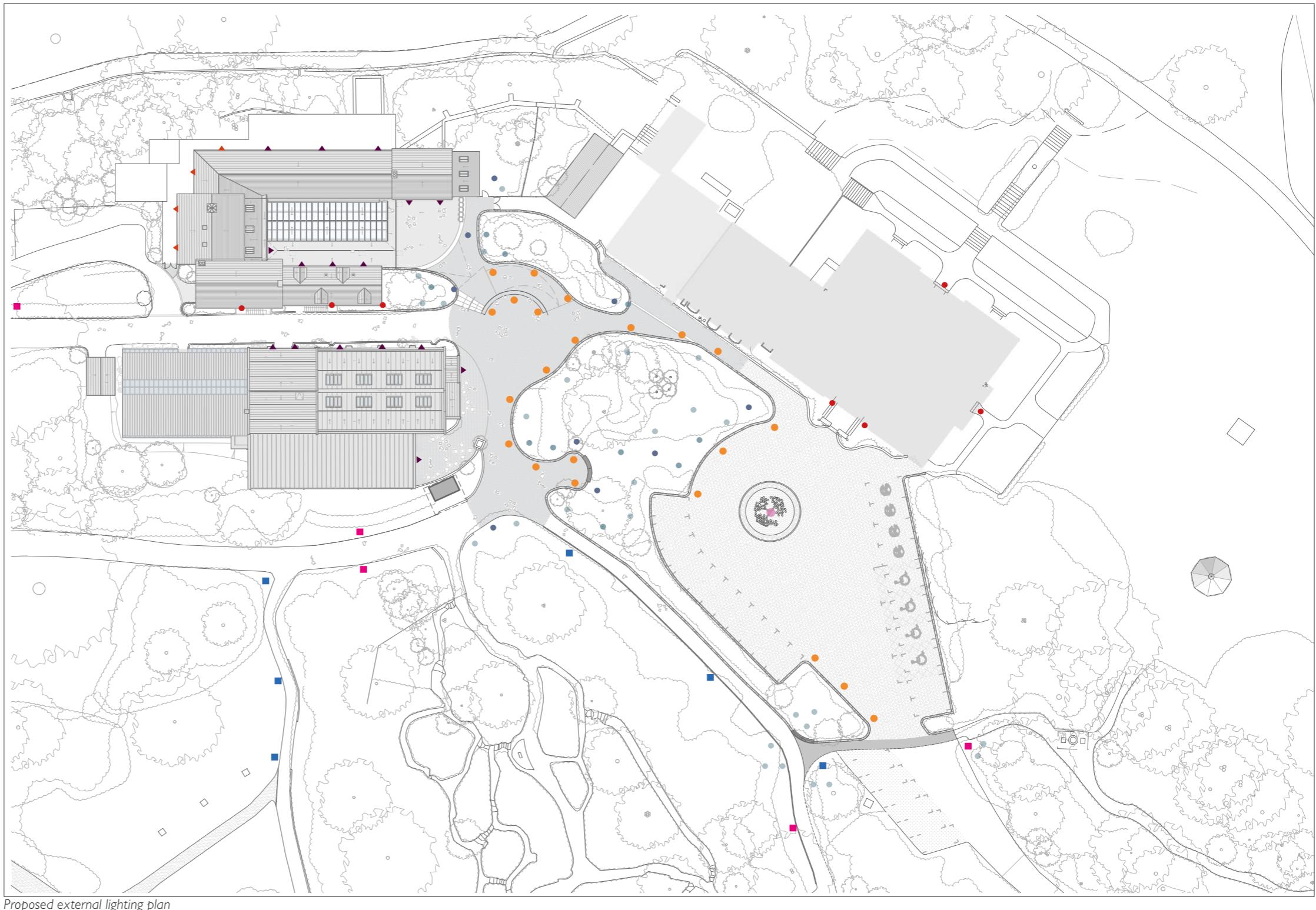
It is assumed that following any permission approvals, a detailed, ecologically sensitive lighting design strategy will be provided with exact light fittings, colour temperatures light levels to demonstrate compliance.



Cover of "Bats and Artificial Lighting at Night"

Key:

- Existing timber bollard mounted lights to existing paths
- Wall-mounted traditional style lights retained
- Timber bollard mounted lights to match existing
- ▲ Wall-mounted lights
- ▲ Back of house wall-mounted lights on PIR sensors
- Pole mounted down lights for garden accents (differing heights)
- Directional lights to light buildings
- Floor washer lights



7.4 SURFACE WATER DRAINAGE STRATEGY

7.4 SURFACE WATER DRAINAGE STRATEGY

Currently, surface water is dealt with via an existing system which runs into the lakes.

Amended Hard Landscaping

The proposals for the revised hard landscaping to the south of the stables and generator block there is an overall net reduction in hard standing landscaping by 253sqm, an increase in planted beds of 47%. The result is less water passing through the existing drainage system,

Consideration will be given to a rainwater harvesting tank and attenuation tank to allow for the water from the stables courtyard, former generator block and hard landscaping to be reused within the gardens, and to restrict outflows into the existing drainage system and reducing the risk of excessive discharge causing potential issues with overflow.

Former Generator Block

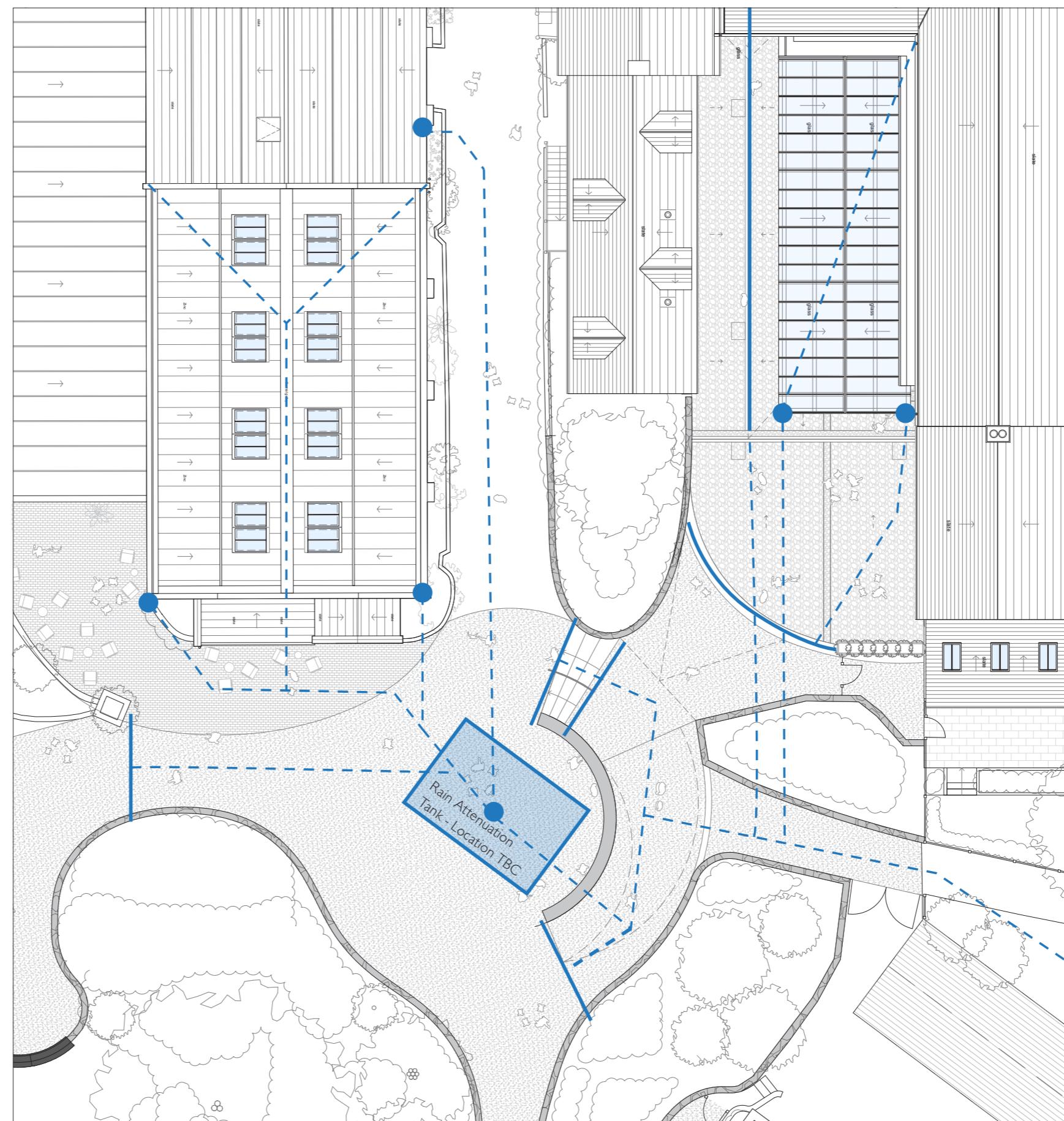
The new extension to the Former Generator Block will create additional surface water run off. It is proposed to attenuate the additional rainwater with a below ground attenuation tank to the North of the building. Where possible the rainwater from the new Alpine House will be diverted and attenuated in the new system.

Stable Block

The new extension to the courtyard of the Stable Block will not create any additional surface water as it is replacing hard landscaping. To the east the proposed dining terrace will have permeable decking which will allow rain to permeate and naturally soak away as per the existing condition.

Garden Shop Building

The roof water from the new extension to the Garden Shop Building will be collected into a water butt, and harvested for plant watering on the site.



Key:



Gully



Slot Drain



Indicative Drain Run

Proposed drainage plan