



KEY	
	New foul drain
	New surface water drain
	Existing foul drain
	Existing surface water drain
	Existing other drain
	New vegetated swale
	New impermeable area

WEST BANK SURFACE WATER

Our park, plant area and 5no. huts on West bank to be attenuated and discharged into ex. SW system at agreed discharge rate.

Flow control device installed at last MH before connection to ex. SW system. This device will be designed to ensure the system to fill vegetated swale behind huts. Vegetated swale designed to have sufficient volume for 1 in 100 year rainfall event. Emergency overflow route from swale to surf lagoon for use only in an exceptional event.

Stackway not considered as a viable option at this side of the lagoon due to 33 rods connecting high level of groundwater. Swales to be lined with 300mm concrete to prevent infiltration to prevent ingress of groundwater when levels are high.

Gullies/channels in car park area to incorporate smart sponge technology to prevent pollutants entering SW system.

WEST BANK FOUL

5no. huts to drain via gravity system to common pumping station. Foul drainage is then pumped to ex. foul network adjacent to west bank.

EAST BANK SURFACE WATER

This area of the existing lagoon is to have the liner stripped back to the new extents and the area left is to be filled in with permeable fill to provide soakaway volume for the new surface water drainage system.

16no. hut roofs to drain via gravity system to 2no. vegetated swales situated behind each row of structures. These vegetated swales are to have soakaway capability so require no lining. During a heavy rainfall event, the swales will overflow and discharge into the existing hotel swale branch. From here the flow is taken to the flood plain as intended in the original hotel swale design.

Access road/path is to have a permeable surface construction i.e. permeable block paving to allow soakaway to permeable fill material below.

EAST BANK FOUL

16no. huts to drain via gravity system beneath the access path/road to common pumping station. Foul drainage is then pumped to ex. foul network where the hotel pump connection is situated.

UNIT 29, STRAWBERRY FIELDS DIGITAL HUBS 1, 01257 267824 E. enquiries@rigbyengineers.co.uk	
PROJECT NO.	DRAWING NO.
P2024-071	0100
REV	REV
P1	P1
DRAWING STATUS - PRELIMINARY	
CLIENT	ADVENTURE PARC SNOWDONIA
PROJECT	LAGOON REPURPOSING
TITLE	PROPOSED DRAINAGE STRATEGY
AI SCALE	DATE
1:500	11/12/24
DRAWN	CHECKED
AIR	