



Hardstanding Area calculations	
<u>Northern Pond</u>	
Lodges:	
36x17 : 9 x 56.85m ² = 511.65	Total: 3332.23m ²
36x20: 5 x 66.89m ² = 334.45	
38x20: 7 x 70.61m ² = 494.27	
42x20: 16 x 78.04m ² = 1248.64	
46x20: 6 x 85.47m ² = 512.82	
62x20: 2 x 115.2m ² = 230.4	
Roads:	
To northern pond 2009 m ²	
Car parking spaces:	
To northern pond 457 m ²	
<u>Southern Pond</u>	
Roads:	
2297 m ²	
Car parking spaces:	
377 m ²	
Building:	
237 m ²	

- Extent of pond earthworks
extent to tie into existing
ground levels at 1 in 3 slope
- Proposed Northern Attenuation Pond
Min. Surface Area = 635 m²
Min. Base Area = 325 m²
Min. Depth = 1.35 m
1 in 100 + 20%CC Water Level: 67.442m
1 in 100 + 40%CC Water Level: 67.553m
Minimum 200mm Freeboard included within pond design depth
CL: 66.050 m
IL: 66.700 m
- Proposed Hydrobrake
CL: 66.100m
IL: 66.600m
Discharge rate: 2.6 l/s
Orifice Diameter: 72mm
- Proposed Outfall Connection
To Existing Pipe under Road
CL: 66.700m
Assumed IL: 66.300m
Limiting Discharge rate: 2.6 l/s
- Proposed Southern Attenuation Pond
Min. Surface Area = 538 m²
Min. Base Area = 320 m²
Min. Depth = 1.0 m
1 in 100 + 20%CC Water Level: 67.444m
1 in 100 + 40%CC Water Level: 67.553m
Minimum 200mm Freeboard included within pond design depth
CL: 67.700 m
IL: 66.700 m

- © 2019 RPS Group
- Notes
- This drawing has been prepared in accordance with the scope of RPS' appointment with its client and is subject to the terms and conditions of that appointment. RPS accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.
 - No dimensions are to be scaled from this drawing.
 - Drawing to be read in conjunction with the Flood Risk Assessment produced by RPS (Ref. RCEF74979_Flood Risk Assessment_001_191211).
 - Drawing is based on 1376.4 Bleathwood Lodges Surface Water Drainage.dwg provided by Bratherton Park Design Consultants.
 - Information regarding existing surface water drainage features obtained from survey information provided by Sitech Surveying Services 11014 Nov 2019 and site reconnaissance undertaken by RPS.
 - Surface water runoff generated from the proposed site to discharge into existing surface water ditch pipe at the eastern boundary of the site. Discharge into the existing pipe to be limited to 2.6 l/s to accommodate a minimum 72mm orifice.
 - HydroBrake® Optimum® or similar flow control device to be utilised to limit the final discharge of surface water runoff into the existing pipe from the Northern attenuation pond.
 - Existing ditch level, pipe invert level and exact locations to be confirmed at detailed design stage.

- Key
- Proposed Surface Water Drainage Network
 - HydroBrake® Optimum® or similar flow control device
 - Topographical Survey
 - Hardstanding Area to Drain to Northern Pond
 - Hardstanding Area to Drain to Southern Pond

C	Non-return valve omitted in accordance with LLFA comments. Pond water levels amended.	LJS	MB	08.09.20
B	Site Layout and Drainage Proposals Amended	ST	MB	27.07.20
A	For Planning	ST	RR	10.12.19
Rev	Description	By	CB	Date

rps MAKING COMPLEX EASY

8 Exchange Quay, Salford,
Manchester, M5 3EJ
T: 0161 786 8550 E: rpsgm@rpsgroup.com

Client **Darwin Leisure Development Properties (Guernsey) Ltd**

Project **Bleathwood Lodges, the Old Hop Yard Bleathwood Lane, Ludlow Shropshire, SY8 4LP**

Title **Proposed Conceptual Surface Water Drainage Layout**

Status	Drawn By	PM/Checked by
For Planning	ST	RR
Project Number	Scale @ A1	Date Created
RCEF74979	NTS	10.12.2019
RPS Drawing / Figure Number		Rev
5A		C
rpsgroup.com		