



NOTE
FUTURE PARKING BAYS HAVE BEEN EXCLUDED FROM PERMEABLE PAVING FOR CALCULATION PURPOSES

- PERMEABLE PAVING ATTENUATION AREA. DEPTH TO BE CONFIRMED BY SPECIALISTS.
- PODIUM ATTENUATION AREA 0.1m DEEP
- GEOCELLULAR ATTENUATION CRATES DEPTH AS STATED
- 0.1m DEEP BLUE ROOF WITH GREEN ROOF OVERLAIN. AREAS SHOWN ARE BLUE ROOF AREAS. 75% OF ROOF AREA NOT TO BE EXCEEDED WITH BLUE ROOF

NOTES:
TOTAL PROPOSED DISCHARGE TO CANAL = 60 l/s
TOTAL PROPOSED DISCHARGE TO THAMES WATER SEWERS = 44.5 l/s
ANY PLANT AREA ON THE ROOFS ARE TO BE EXCLUDED FROM THE GREEN ROOF AREAS.
DISCHARGE RATES ARE SUBJECT TO APPROVAL

DISCHARGE RATES FROM EACH ELEMENT

THAMES WATER CATCHMENT

CATCHMENT m ²	STORAGE METHOD	TOTAL CATCHMENT / m ²	COVERAGE m ² / DEPTH OF STORAGE m	DISCHARGE RATE DURING 1 IN 100 YR + 40 % cc L/S
ENERGY BLOCK	BLUE ROOF	512	350 / 0.1	0.5
BLOCK D1/2	BLUE ROOF	1153	865 / 0.1	1.0
BLOCK D3	BLUE ROOF	181	110 / 0.1	0.3
BLOCK C	BLUE ROOF	3570	2675 / 0.1	3
BLOCK G	BLUE ROOF	1080	700 / 0.1	1.2
PODIUM C	BLUE ROOF	1365	900 / 0.1	1.6
GC2	BGL CRATES	3950	357 / 0.5	18
PP4	PERMEABLE PAVING	503	766 / 0.25	0.5
PP5	PERMEABLE PAVING	3520	1115 / 0.47	7.3
PP6	PERMEABLE PAVING	4193	1116 / 0.57	11.1
TW TOTAL				44.5 l/s

CANAL CATCHMENT

CATCHMENT m ²	STORAGE METHOD	TOTAL CATCHMENT / m ²	COVERAGE m ² / DEPTH OF STORAGE m	DISCHARGE RATE DURING 1 IN 100 YR + 40 % cc L/S
BLOCK E	BLUE ROOF	1644	1233 / 0.1	1.2
BLOCK B 5,6,7	BLUE ROOF	1893	1420 / 0.1	1.2
BLOCK B8	BLUE ROOF	411	280 / 0.1	0.5
BLOCK B4	BLUE ROOF	300	225 / 0.1	0.8
BLOCK B1,2,3,9	BLUE ROOF	2411	1800 / 0.1	1.6
PODIUM B	BLUE ROOF	2320	1600 / 0.1	2.4
BLOCK F3,4	BLUE ROOF	1038	778 / 0.1	0.8
GC1	BGL CRATES	4345	500 / 0.4	13.5
PP1	PERMEABLE PAVING	444	653 / 0.25	1.0
PP2	PERMEABLE PAVING	1868	791 / 0.30	11.0
PP3	PERMEABLE PAVING	4069	1359 / 0.37	26.0
CANAL TOTAL				66.0 l/s

- NOTES:
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH C151867/C/001, C151867/C/002 AND C151867/C/101,102 AND 104.
 - THE LOCATION OF EXISTING MANHOLES, PIPE SIZES, PIPE TYPE AND INVERT LEVELS TO BE CONFIRMED BY CONTRACTOR.
 - THE PROPOSED ATTENUATION AREAS WITHIN THE THAMES WATER CATCHMENT HAVE BEEN DETERMINED BASED ON LIMITING DISCHARGE FLOWS TO THE 100yr GREENFIELD RUNOFF RATE.
 - THE PROPOSED ATTENUATION AREAS WITHIN THE CANAL CATCHMENT HAVE BEEN DETERMINED BASED ON LIMITING DISCHARGE FLOWS TO QMED (URBAN) CALCULATED USING FEH METHOD, ALLOWING 30% BETTERMENT.
 - ATTENUATION VOLUMES SUBJECT TO CHANGE PENDING APPROVAL OF PROPOSED DISCHARGE RATES.
 - CONDITION OF EXISTING DRAINAGE CONNECTIONS FROM SITE TO BE CONFIRMED AND RETAINED IF FEASIBLE.

Rev	Date	Description	By	Ckd
P8	08.08.17	ISSUED FOR PLANNING	JH	JB
P7	21.04.17	UPDATED SITE LAYOUT	AB	JH
P6	27.01.17	GC2 ATTENUATION CRATES AMENDED	AB	JH
P5	25.01.17	PRELIMINARY- GREEN ROOF ADDED, TABLE REMOVED	AB	JH
P4	22.12.16	PRELIMINARY- TABLE DATA, CATCHMENTS AND ATTENUATION AREAS AMENDED	AB	JH
P3	19.12.16	PRELIMINARY- TABLE DATA, CATCHMENTS AND ATTENUATION AREAS AMENDED	AB	JH
P2	31.10.16	PRELIMINARY- TABLE DATA, CATCHMENTS AND ATTENUATION AREAS AMENDED	AB	JH
P1	25.10.16	PRELIMINARY	AB	JH

Architect:

MAKOWER ARCHITECTS

Hydrock Consultants Ltd
Hydro Valley Innovation Centre
Central Boulevard
Southall
UB8 3AU
T +44 (0)121 5060040
www.hydrock.com

Client:

BARRATT LONDON

Project Title:

FORMER NESTLÉ SITE HAYES

Drawing Title:

PROPOSED SURFACE WATER ATTENUATION LOCATIONS

Drawing Status:

PRELIMINARY ISSUE

Hydrock Job No: **C151867**

Drawn	Checked	Scale @ A1	Date	Issue Date
AB	JH	1:1000	27.01.17	27.01.17

Drawing Number:	Revisions:
C151867/C/102	P8