

NOTES:

Design is subject to level review and capacity assessment.

Connections and design will need to be agreed by local authority and discharge consent from Thames Water.

Position and arrangement of SW storage/SuDS measures TBC following liaison with LPA and EA.

Allowance should be made for secondary drainage runs and other items such as gullies, RWPs, access chambers, SVPs etc.

Infiltration rates currently unknown - may be scope for to use soakage devices; unlikely however due to underlying London Clay formation.

EA online mapping indicates the site lies within Flood Zone 1.

Foul water runs to connect into closest adjacent existing network.

Existing drainage currently unknown - any reference to such drainage is an assumption based on currently available information.

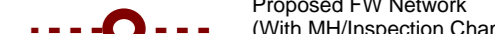

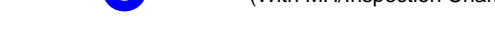

Dilution traps will be required on all sinks.

Total impermeable area to be drained is 3.27ha. To meet with the London Plan preferred standards of greenfield discharge restriction (40 l/s), 1942m³ of storage will be required within the entire site's proposed system (within storage tanks, MfS pipes, MUGA/courts/pitch type 3 sub-base etc.).

Any drainage within the basement may require a pump station.

Where new drain points are required within ground floor refurbishment areas, a new PPIC and drain run will be required. Allowance for surfacing remediation will also be required.

KEY

-  Proposed FW Network (With MfS/Inspection Chamber)
-  Proposed SW Network (With MfS/Inspection Chamber)
-  Proposed permeable surface
-  Area to remain as per existing arrangements

Tennis courts to drain via permeable surfacing into 100mm diameter perforated pipes as shown - type 3 sub-bases to provide approximately 260m³ storage.

Hydrobrake flow control device limited discharge to greenfield rates of 10 l/s.

Red shaded area represents approx. extents of existing car park that may require resurfacing. Does not require attenuation as no change in use. Currently permeable surface and any works should maintain this.

Hydrobrake flow control device limited discharge to greenfield rates of 6 l/s.

MUGA to drain via permeable surfacing into 100mm diameter perforated pipes as shown - type 3 sub-base to provide approximately 22m³ storage.

Sports pitches to drain via permeable surfacing into 100mm diameter perforated pipes as shown - type 3 sub-bases to provide approximately 1000m³ storage.

Proposed car park to drain via permeable surfacing into 100mm diameter perforated pipes as shown - type 3 sub-base to provide approximately 660m³ storage for both car park and adjacent Sports Pavilion.

Foul water system to connect into existing drainage networks in this area prior to discharging into Thames Water sewer. Please note a pump station may be required to drain the Sports Pavilion basement.

Hydrobrake flow control device limited discharge to greenfield rates of 12 l/s.

Proposed connection into landscape/swales system which eventually outfalls to Potomac Lake - see Landscape Masterplan for further details.

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ATTENUATION REQUIREMENTS

Sports Pavilion + Car Park = 1.14ha @ 12 l/s = 660m³
 Sports Pitches = 1.61ha @ 12 l/s = 1000m³
 Tennis Courts = 0.519ha @ 10 l/s = 260m³
 MUGA = 0.0688ha @ 6 l/s = 22m³

Rev:	Description:	Date:	By:	Chkd:
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Structures: Civils - Environmental - Infrastructure - Transport Planning - Health & Safety - Design Revision
 Birmingham Bristol Cardiff Dundee Edinburgh Glasgow Leeds Liverpool London Manchester Nottingham

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Project:	GUNNERSBURY PARK
Dwg Title:	PRELIMINARY DRAINAGE LAYOUT

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