

Above ground routing of foul drainage to be confirmed. Allowance to be made for venting head of each run through the roof.

All connections to existing infrastructure manholes FW08 and SW42 to be checked and existing levels verified prior to construction work commencing on site

All manholes located in service yards may require minor repositioning and alteration of cover levels to suit yard joint layout

Rainwater harvesting tank location and details to be confirmed

Sprinkler test drainage requirements to be confirmed

Process water foul drainage flows to be confirmed by the Tenant and any increase in discharge agreed with Thames Water.

Drainage runs to be coordinated with Service routes and pits etc.

Allowance to be made for all manholes/inspection chambers & access shafts located outside the security fence to have lockable manhole covers.

For Surface and Foul Water Manhole Schedule refer to RPS drawing MAYGT-RPS-DC4-XX-SH-D-2301.

For Internal Foul Pop up locations refer to RPS drawing MAYGT-RPS-DC4-XX-DR-D-2340.

## Drainage Key:

Existing Thames Water Sewer (SW & FW)

Existing Thames Surface Water Manhole (SW & FW)

Infrastructure Foul Water Sewer

Infrastructure Surface Water Sewer

— — — — S278 Highway Surface Water Sewer— — — — Perforated Pipe (Porous Car Park)

→ — ⊕ SW \_\_\_ Surface Water Manhole

\_\_\_ \_ (CP) Catchpit Manhole (Silt / debris trap)

→ \_ ⊕ (V) \_ Vented Manhole cover

Penstock Isolation Valve Chamber

Outlet box with Catchpit (Silt / debris trap)

Access chamber (for maintenance access)

Inspection Chamber

Polypropylene Inspection Chamber

PPCP Polypropylene Catch Pit

FMH FW Manhole

Concrete encased pipes

• RWP Rainwater Pipe (c/w RE)

• SDP Syphonic Primary Downpipe

• RE Rodding Eye

Guily

\_\_\_ Assumed route of high level secondary syphonic drainage

Syphonic Secondary Discharge (below ground discharge)

Hydrobrake / Flow Control chamber

AC OB Proposed Surface Water Slot Drain (OB= Outlet Box & AC= Access Chamber)

Proposed Surface Water Channel Drain

Existing Sewer Anticipated No Build Zone

Syphonic Secondary Discharge

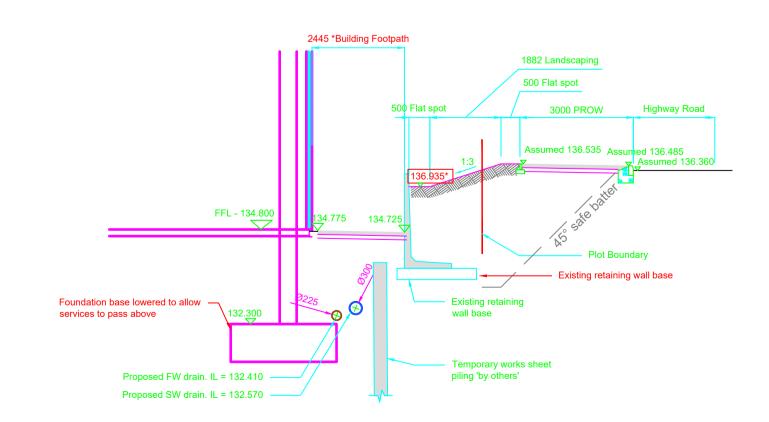
Hertfordshire Highway Authority highway drainage easement.

Surface Water Drainage easement through DC4 demise

**SUDS Features Key:** 

Oil Interceptor (with alarm)

Attenuation (silt / debris trap)



## Section A-A Scale (1:100)



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Notes

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## Revision C04 Not Issued

C04	Foul drain points in breakout area relocated to corners	RB	JDC	02.04.20
C04	following comments from PPA dated 01.04.20	KB	JDC	02.04.20
C03	Foul connection for Sprinkler tank added. S14 and OB 03,04 relocated to avoid clash with new MV trench position. S24 and S19 relocated to avoid clash with CMC'S.	RB	JDC	17.03.20
C02	Sumps positions added in corridor and data hall. Surface water manholes (S14,S15 & S17) and Slot drain outlet boxes (OB 03,04,05,06,) relocated to avoid clash with MV pits. Foul manhole 07 omitted.	RB	JDC	06.03.20
C01	Issued for Construction excluding items in abeyance. Surface water manhole S14,S15,S16 & S17 position updated to coordinate with MV cable access chamber. F14 omitted, foul sub-station connection taken straight into F15. Gully connection added for Crash tested road blocker. Slot drain sizes updated and confirmed to suit Gatic design.	RB	JDC	25.02.20
P05	Attenuation tank sizes updated to suit Tubosider design. Foul water manhole position below Cooling Tower base amended to coordinate with CMC pile layout (F02,F04 & F05). Foul drainage positions in Data Hall has been relocated into the corridors as requested. Surface run relocated between S17(BD) & S19 to pass below generator base. Foul water manhole F02 & F04a omitted. Surface and Foul water manhole schedule updated to suit.	RB	JDC	22.01.20
P04	Porous paving in car park removed. Slot drain / Gullys added at low point in car park. By-pass separator and S26 / S27 added. Slot drain added in yard to accommodate for the syphonic secondary discharge above ground.	RB	JDC	26.09.19
P03	Foul water manhole F04a added. Internal Condensate waste stack connections added.	RB	JDC	23.08.19
P02	Section A-A added. Foul water manhole cover level & invert level references added. Gatic slot drain sizes added.	RB	JDC	16.08.19
P01	First Issue	RB	JDC	13.08.19
Rev	Description	Ву	Ckd	Date



Newark, Nottinghamshire, NG24 1QQ T:01636 605 700 E: rpsnewark@rpsgroup.com



ProLogis Hemel Hempstead

DC4 Surface and Foul Water Enhanced Build Drainage Layout

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Fask Team Information Author Manager MH RB JDC

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