Drainage Notes

1. All drainage shown is indicative only for scheme cost pricing purposes only. Do not construct from this drawing.
2. All adoptable surface and foul water drainage works to be carried out in strict accordance with 'Sewers for Adoption 7th edition' and any specific requirements of the adopting authority.
3. All adoptable highway drainage works to be carried out in strict accordance with the Local Highway Authority requirements and the DfT MCHW specification for highway works.
4. All private drainage works are to be carried out in accordance with Building Regulations Part H, BS EN 752, the Civil Engineering Specification for the Water Industry and, where provided, the BWB Drainage Specification.
5. Where applicable the contractor shall allow free and full access to the drainage works for the local authority, highway authority, drainage authority or the overseeing organisation.
6. The exact position, level, line, size and use of existing drainage is to be confirmed on site. Any discrepancies to be reported to the engineer prior to the commencement of works.
7. For new connections to existing manholes, existing benching is to be broken out and reformed to suit. Concrete/brick surround to be made good.
8. All temporary works associated with the construction of the drainage works shall be the responsibility of the contractor, including the protection of any uncovered/shallow pipework against construction traffic.
9. The Contractor is responsible for obtaining and paying for all necessary permissions to enable construction of the works to be undertaken, including but not limited to licences for street works and connections to existing sewers. This includes Section 106 applications when connecting directly or indirectly to the public sewerage network (complete application to be made at least 3 weeks prior to the planned outfall construction works).
10. Any damage caused to existing footways, roads or other third party property to be made good.
11. Under roads and external paved areas all materials within 450mm of finished levels to be non-frost susceptable. Reinstatements shall be undertaken in accordance with the BWB standard detail.
12. All proposed chamber covers are to be marked permanently with "SWS" (or equiv.) on surface water sewers and "FWS" (or equiv.) on foul sewers. all covers to be in accordance with BS EN 124.
13. Unless noted otherwise, all lateral connections are to be installed with level soffits to the diameters and gradients shown on the layout drawing. Any pipe bends should be provided to suit the direction of flow & no pipework should be downsized in the direction of flow.
14. The contractor may utilise siphonic drainage or traditional gutters and rainwater pipe. Alternatives are shown in the event that RWP system is utilised.
15. The number and location of all RWPs is shown indicatively only. To be confirmed by Architect / M&E contractor prior to commencement of works...
16. The number and location of all wall drainage and filter drains is shown indicatively only. To be confirmed by retaining wall design specialist contractor prior to commencement of works...
17. All RWPs and SVPs to be fitted with rodable access plates. All foul drains to have rodable access.
18. Above ground drainage details to be designed/confirmed by the Architect/M&E contractor, including ventilation of the foul drainage system.
19. Proposed drainage passing through new foundations to be sleeved with cast-in oversized pipework.
20. All specialist/proprietary products such as separators, attenuation tanks, channel drains, soakaways, package pumping station and water treatment units to be installed as per the manufacturer's installation details and specifications.
21. All new drainage to be constructed adjacent to new and proposed tree planting to be adequately protected against root activity using root barriers in accordance with the manufacturer's recommendations.
22. All chambers covers and gratings within roads, service yards and car park areas to be class D400.

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Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.
5. This layout is based upon DLA drawing "2016-151-121"
6. For drainage construction details, refer to BWB drawing No: KBF-BWB-HDG-XX-DR-D-0561 & 0562.

Legend

- Proposed Surface Water Drainage
- Filter Drain
- Drainage Channel / SlotDrain
- Indicative Siphonic Roof Drainage
- Kerb Drain
- [Gu] Gully
- Channel Drain
- [Su] Sump Unit
- RWP Rain Water Pipe Indicative location
- Petrol / Oil Separator
- Surface Water Flow Control Chamber
- [BD] Backdrop connection
- Existing Surface Water Drainage
- Surface Water Stub Connection
- Foul Sewer Drainage
- Foul Sewer Rising Main
- Foul Sewer Stub Connection
- Foul Pop Up Approx Position
- Existing Foul Water Drainage
- Existing United Utilities Easement

C6	14.02.19	CP02, CP14 amended. Siphonic outlets added single storey office	DG	DG
C5	31.01.19	MH F12A, Siphonic outlet sizes added, S104 manhole sizes updated to reflect S104 design, invert levels updated to suit as-built information	DJS	DG
C4	30.11.18	Highway drainage updated to avoid pipe clashes service yard channel drains revised to suit level changes, see clouded areas	DJS	DG
C3	15.11.18	Updated to show pipe lengths Updated to avoid pipe clashes	JN	DG
C2	13.11.18	Cover levels revised to suit updated finished levels retention separator moved as per Winvic comments DLA masterplan RevD added, chamber 39A added kerb and channel drain info added	DJS	DG
C1	31.10.18	Construction issue, CL & IL's revised to suit FFL change, secondary siphonic outlet positions revised	DJS	SC
T02	03.10.18	Updated to architects comments	MC	DG
T01	24.09.18	Tender Issue	GDJ	DG
P02	31.08.18	For Planning	JS	RT
P01	28.08.18	For Information	RT	KJ
Rev	Date	Details of issue / revision	Drw	Rev

Issues & Revisions

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Client

winvic

Project Title

Dachser Kingsway Business Park Plot F

Drawing Title

Drainage Layout

Drawn:	R. Turner		Reviewed:	K. James	
BWB Ref:	MCS2381	Date:	28.08.18	Scale@A1:	1:500

Drawing Status

Construction

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
KBF-BWB-HDG-XX-DR-D-0500	**A**	**C6**