

DO NOT SCALE

Notes

- All works to be carried out in accordance with:
 - Design and Construction Guidance (DCG) and Sewerage Sector Guidance (SSG) for all sewers proposed to be offered for adoption. (note - the SSG replaces Sewers for Adoption (SfA) for all new developments)
 - BS EN 752 - 'Drain and Sewer Systems Outside Buildings'
 - Current applicable Building Regulations
 - BGP Specifications
 - Manufacturer installation guidance and requirements
- All levels shown are in metres and are relative to ordnance datum (m AOD).
- Connection to United Utilities sewers are only to be carried out under an S106 agreement by UU approved term contractors unless agreed otherwise between both parties. (organised by main contractor)
- Invert levels of all existing chambers and connection points are to be confirmed and engineer advised prior to commencement of any Drainage Works.
- Where proposed sewers connect into existing sewers, the existing sewers must be checked for line, level and condition preferably by a CCTV survey
- Concrete bed and surround is required to all gully leads and to all pipes in highways/hardstanding where cover to pipe <1200mm
- All pipes to be either extra strength V.C. to BS 65 or PVC certified to WIS 4-35-01 and BS/EN13476 or concrete pipes Class 120 to BS/EN 1916/BS5911-1:2002.
- All RWP and slab penetration (PU) locations are indicative and accurate positions should be taken from the Architects drawings. All slab penetrations to be roddable above ground level via access pipe.
- Existing sewer positions are indicative and are not to be used in conjunction with design. Contractor to confirm location.
- All existing drainage to be cleaned and jetted as part of the contract
- All RWP connections to be 1000 and Surface water sewers to be 1500 unless noted otherwise.
- All FW drains to be 1500 between manholes and 1000 unless noted otherwise elsewhere.
- Contractor is responsible for positioning MHS so they do not compromise line or level of kerbing or other delineation at the juncture of two surface materials.
- Cover levels shown are indicative and may vary on site. The contractor should adjust levels to suit site conditions
- All internal manholes to be Type 'PPIC' with double seal covers u.n.o
- Underground attenuation tanks are to be provided which have capacities of 176m³. Tanks shall be designed by specialist contractor to provide the net volume of attenuation required and comply with recommendations by Ciria with regard to access for maintenance and strength. The strength of the tank should comply with Ciria document C737 'Structural design of Modular Geocell drainage tanks'. The construction, installation and venting requirements of the tank shall be strictly in accordance with manufacturer guidance.
- Other services are not shown on this drawing, however their presence must be anticipated. The contractor is to confirm prior to commencing any works, the location and depth of all services that may affect the works the manufacturers requirements and recommendations.

S.H.E.
Do not excavate until all underground services have been identified and marked out. Refer to service providers drawings and to the utilities survey drawings. Unknown underground services may exist. Check for services by carrying out a scan with a cable avoidance tool.

Legend

Proposed SW Sewer	
Proposed FW Sewer	
Nor Beck (Culverted)	
Existing SW Sewer	
Existing FW Sewer	
Hub Site Boundary	
Proposed Attenuation Tank	
Permeable Paved Paving with 1500 perf. pipe (Tanked)	
Filter Drain	
Linear Drain + Outlet Unit	
Yard Gully	YG
Highway Gully fitted with Naylor Smart Gully Adapter (or similar approved by LLFA)	G
Pipe over Ground Beam	
Pipe cast into Ground Beam	

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AMENDMENT	BY	REV	CHK	DATE

Rev P = Preliminary T = Tender C = Construction LCI = Last Construction Issue

In instances where this drawing completes or partly completes a contract, Billingham George & Partners will consider that it's product has been validated, unless in a period not exceeding 90 working days, the client advises to the contrary.



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Client Copeland Borough Council		Project No. 21T2034	
Project Cleator Moor Innovation Quarter		Drawing Title Hub - Drainage Plan	
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