



DO NOT SCALE

#### Notes

- All Information provided is for planning purposes only and should not be relied upon for either costing or construction.
- Proposed finished floor levels are indicative and are based on existing topographic data.
- All drainage outfall levels are to be investigated and confirmed prior to detailed design. Engineer to be informed of findings. Current design shown is indicative.
- All Surface water discharge rates and methods of discharge are to be agreed with the Lead Local Flood Authority and Environment Agency.
- All Foul water discharge rates are to be agreed with United Utilities through return of a predevelopment enquiry.

#### Legend

Proposed SW Sewer	
Proposed FW Sewer	
Nor Beck (Culverted)	
Existing SW Sewer	
Existing FW Sewer	
Existing UU Combined Sewer	
Area 1 Site Boundary	
Proposed Attenuation Tanks	
Proposed Building	
Tanked Permeable Paved Parking Bays with perf. pipe	

#### Additional Notes

Proposed Impermeable Area	=	27755m <sup>2</sup> (2.6025Ha.) and 9200m <sup>2</sup> (0.9200ha)
Brownfield Discharge Rate	=	<b>127.4 l/s and 40.0 l/s</b>
Storage Required	=	<b>290m<sup>3</sup>, 165m<sup>3</sup> and 640m<sup>3</sup></b>

See Drawing CMIQ-BGP-01-XX-DR-C-52-01901 for Discharge Rate Calculations.

\*NOTE: 290m<sup>3</sup> Storage required based on 1 in 100 year storm + 40% climate change and 40.0 l/s discharge rate.  
Tank Depth = 2.0m / Tank Base = 77.800  
Tank Dimensions = 6.0m x 25.0m x 2.0m  
Vent pipe & access points TBC by Manufacturer.

\*\*NOTE: 165m<sup>3</sup> Storage required based on 1 in 100 year storm + 40% climate change and 127.4 l/s discharge rate.  
Tank Depth = 1.5m / Tank Base = 80.000  
Tank Dimensions = 4.0m x 27.5m  
Vent pipe & access points TBC by Manufacturer.

\*\*\*NOTE: 640m<sup>3</sup> Storage required based on 1 in 100 year storm + 40% climate change and 127.4 l/s discharge rate.  
Tank Depth = 2.0m / Tank Base = 79.000  
Tank Dimensions = 6.5m x 50.0m  
Vent pipe & access points TBC by Manufacturer.

**Area 1 Reference Drawings**  
CMIQ-BGP-01-XX-DR-C-52-01101 - Impermeable Areas Plan  
CMIQ-BGP-01-XX-DR-C-52-01102 - Flood Exceedance Flow Route  
CMIQ-BGP-01-XX-DR-C-52-01330 - Drainage Plan  
CMIQ-BGP-01-XX-DR-C-52-01331 - Manhole Schedule

Issued for Planning	JJH	P02	JC	23.03.2022
FIRST DRAFT	JJH	P01	JC	05.11.2021
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.



**Billingham George & Partners**

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#### Client

Copeland Borough Council

#### Project

Cleator Moor Innovation Quarter

#### Project No.

21T2034

#### Drawing Title

Area 1 - Drainage Plan

Drawn	Date	Checked	Date	Size	Scale	Class.	Rev.
JJH	Nov 2021	JC	Nov 2021	A1	1:1000	52	P02
Location	Originator	Volume	Level	Type	Role	Unique No.	
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#### File Reference

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