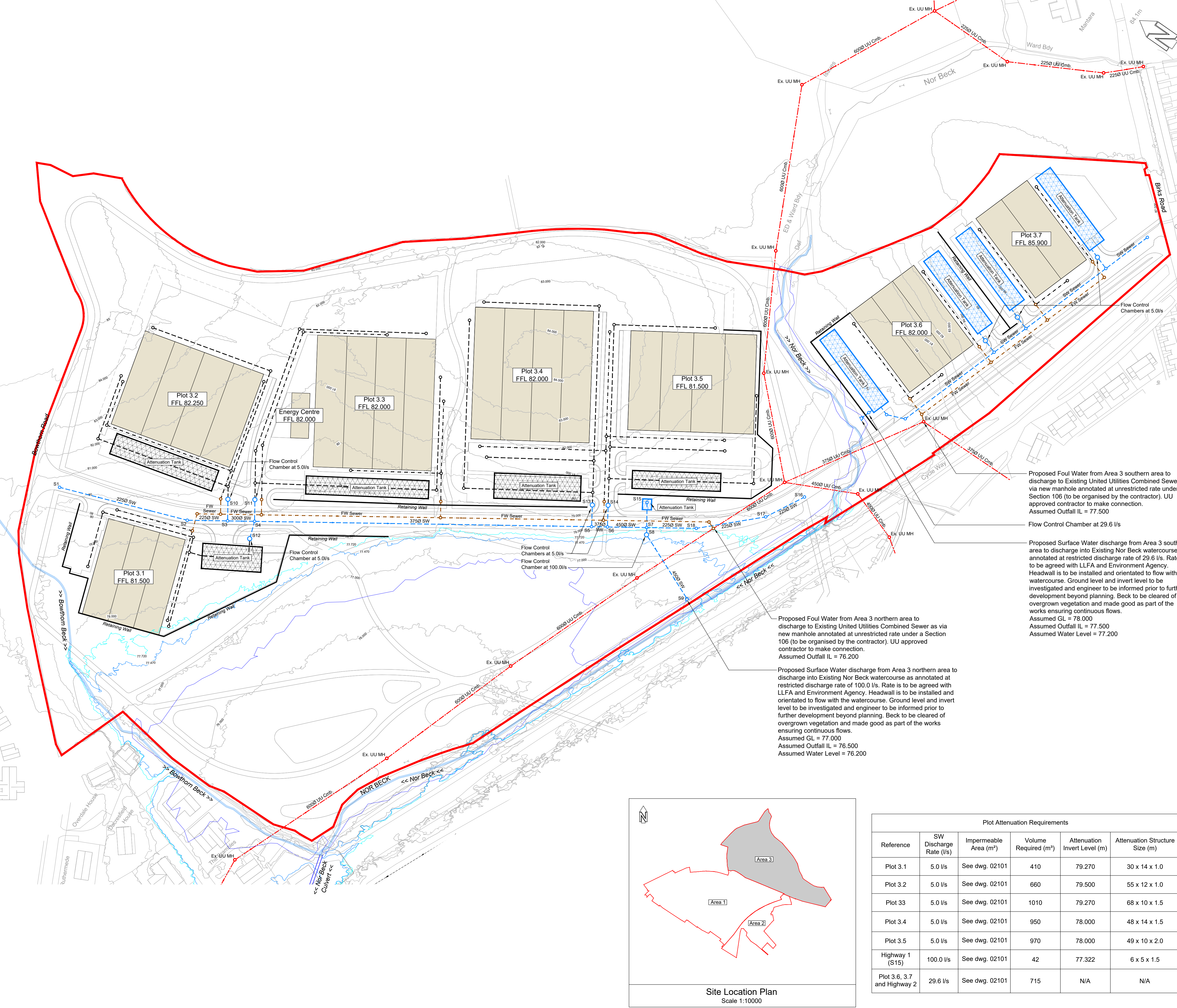




DO NOT SCALE

Notes

1. All Information provided is for planning purposes only and should not be relied upon for either costing or construction.

2. Proposed finished floor levels are indicative and are based on Lidar data. These will be reviewed upon receipt of a topographic survey.

3. All drainage outfall levels are to be investigated and confirmed suitable prior to detailed design. Engineer to be informed of findings. Current design shown is indicative.

4. All Surface water discharge rates and methods of discharge are to be agreed with the Lead Local Flood Authority and Environment Agency.

5. All Foul water discharge rates are to be agreed with United Utilities through return of a predevelopment enquiry.

6. All Existing sewer locations have been assumed from United Utilities records.

7. All existing sewers to be surveyed to confirm depth, diameter, location and condition prior to detailed design.

Legend

Proposed SW Sewer

Proposed FW Sewer

Proposed Plot FW Sewer

Proposed Plot SW Sewer

Existing UU Combined Sewer

Area 3 Site Boundary

Flood Zone 2 Extent

Flood Zone 3 Extent

Flood Zone 3 Extent (77.470m AOD)(1.0 AEP undefended/defended + 35% Climate Change)

Proposed Attenuation Tanks

Proposed Building

Additional Notes

Proposed Impermeable Area = 46305m² (4.6305ha)

Assumed Discharge Rate = **129.6 l/s**

Storage Required = **See Table**

See Q-Bar Calculation for information.

Proposed Foul Water from Area 3 southern area to discharge to Existing United Utilities Combined Sewer as via new manhole annotated at unrestricted rate under a Section 106 (to be organised by the contractor). UU approved contractor to make connection. Assumed Outfall IL = 77.500

Flow Control Chamber at 29.6 l/s

Proposed Surface Water discharge from Area 3 southern area to discharge into Existing Nor Beck watercourse as annotated at restricted discharge rate of 29.6 l/s. Rate is to be agreed with LLFA and Environment Agency. Headwall is to be installed and orientated to flow with the watercourse. Ground level and invert level to be investigated and engineer to be informed prior to further development beyond planning. Beck to be cleared of overgrown vegetation and made good as part of the works ensuring continuous flows. Assumed GL = 78.000 Assumed Outfall IL = 77.500 Assumed Water Level = 77.200

Proposed Foul Water from Area 3 northern area to discharge to Existing United Utilities Combined Sewer as via new manhole annotated at unrestricted rate under a Section 106 (to be organised by the contractor). UU approved contractor to make connection. Assumed Outfall IL = 76.200

Proposed Surface Water discharge from Area 3 northern area to discharge into Existing Nor Beck watercourse as annotated at restricted discharge rate of 100.0 l/s. Rate is to be agreed with LLFA and Environment Agency. Headwall is to be installed and orientated to flow with the watercourse. Ground level and invert level to be investigated and engineer to be informed prior to further development beyond planning. Beck to be cleared of overgrown vegetation and made good as part of the works ensuring continuous flows. Assumed GL = 77.000 Assumed Outfall IL = 76.500 Assumed Water Level = 76.200

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 LC = 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.

Logo

Billingham George & Partners

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Client

Copeland Borough Council

Project

Cleator Moor Innovation Quarter

Project No. 21T2034

Drawing Title

Area 3 - Schematic 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.

CMIQ

BGP

02

XX

DR

C

02130

File Reference

CMIQ-BGP-02-XX-DR-C-52-02130

North Arrow

Area 1

Area 2

Area 3

Site Location Plan

Scale 1:10000

Plot Attenuation Requirements

Reference	SW Discharge Rate (l/s)	Impermeable Area (m ²)	Volume Required (m ³)	Attenuation Invert Level (m)	Attenuation Structure Size (m)
Plot 3.1	5.0 l/s	See dwg. 02101	410	79.270	30 x 14 x 1.0
Plot 3.2	5.0 l/s	See dwg. 02101	660	79.500	55 x 12 x 1.0
Plot 33	5.0 l/s	See dwg. 02101	1010	79.270	68 x 10 x 1.5
Plot 3.4	5.0 l/s	See dwg. 02101	950	78.000	48 x 14 x 1.5
Plot 3.5	5.0 l/s	See dwg. 02101	970	78.000	49 x 10 x 2.0
Highway 1 (S15)	100.0 l/s	See dwg. 02101	42	77.322	6 x 5 x 1.5
Plot 3.6, 3.7 and Highway 2	29.6 l/s	See dwg. 02101	715	N/A	N/A