

1. Cover levels are approximate only and may vary on site. Covers to suit finished levels.
2. 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.
3. PPIC manhole diameters may vary and are dependant on manufactures specification and diameter of incoming / outgoing pipes.
4. Concrete manhole diameters are dependant on nominal internal diameter of largest pipe in manhole. See Table A on Typical Manhole Details drawing.

Surface Water Drainage Manhole Schedule - Hub											
MH Ref.	Cover Level	Invert Level	MH Type	MH Dia. (m)	Cover Type	D/S Pipe Length	Depth to Invert	Pipe Size (m)	Depth to Soffit	Gradient	Comments
S1	83.050	81.210	Conc.	1.500	D400	28.777	1.840	0.600	1.240	1:479.6	
S2	83.050	81.150	Conc.	1.500	D400	33.640	1.900	0.600	1.300	1:480.6	
S3	83.050	81.080	Conc.	1.500	D400	30.688	1.970	0.600	1.370	1:500	
S4	83.050	81.019	Conc.	1.500	D400	30.412	2.031	0.600	1.431	1:500	
S5	83.050	80.958	Conc.	1.500	D400	9.281	2.092	0.600	1.492	1:515.6	
S6	83.050	80.940	Conc.	1.800	D400	42.833	2.110	0.600	1.510	1:475.9	
S7	83.050	80.850	Conc.	1.500	D400	73.760	2.200	0.600	1.600	1:491.7	
S8	82.850	80.700	Conc.	1.500	D400	16.512	2.150	0.600	1.550	1:471.8	
S9	82.850	80.665 (Inlet) 80.615 (Outlet)	Conc.	2.100	D400	8.457	-	0.300	-	1:62.6	Hydrobrake @ 42.4/l/s
S10	83.050	81.775	Conc.	1.200	D400	28.776	1.275	0.225	1.050	1:125.1	
S11	83.050	81.470	Conc.	1.200	D400	33.802	1.580	0.300	1.280	1:147	
S12	83.050	81.240	Conc.	1.200	D400	20.328	1.810	0.300	1.510	1:225.9	
S13	83.050	81.200	Conc.	1.500	D400	46.598	1.850	0.600	1.250	1:200	
S14	83.050	81.625	Conc.	1.200	D400	33.919	1.425	0.225	1.200	1:50	
ST	-	-	PPIC	0.450	B125	-	0.700	0.100	0.600	Varies	700mm Depth Silt Trap

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3. PPIC manhole diameters may vary and are dependant on manufactures specification and diameter of incoming / outgoing pipes.
4. Concrete manhole diameters are dependant on nominal internal diameter of largest pipe in manhole. See Table A on Typical Manhole Details drawing.

Foul Water Drainage Manhole Schedule - Hub											
MH Ref.	Cover Level	Invert Level	MH Type	MH Dia. (m)	Cover Type	D/S Pipe Length	Depth to Invert	Pipe Size (m)	Depth to Soffit	Gradient	Comments
F1	83.050	82.135	PPIC	0.450	B125	30.289	0.915	0.150	0.765	1:60	
F2	83.050	81.630	PPIC	0.450	B125	23.616	1.420	0.150	1.270	1:80	
F3	83.050	81.335	PPIC	0.450	B125	33.522	1.715	0.150	1.565	1:80	
F4	83.050	81.000	PPIC	0.450	B125	33.400	2.050	0.150	1.900	1:100	
F5	83.050	80.665	Conc	1.200	D400	9.450	2.385	0.150	2.235	1:100	
F6	83.050	80.570	Conc	1.200	D400	7.000	2.480	0.150	2.330	1:100	
⚠ F7	82.850	80.500 (Inlet)	Specialist	2.600	D400	165.663	#####	0.150 (HDPE Rising Main TBC by Specialist)	N/A	1: -116.25	
F8	83.050	81.925	Conc	1.200	D400	19.163	1.125	0.150	0.975	1:25	
F9	83.050	82.275	PPIC	0.450	B125	7.719	0.775	0.150	0.625	1:40	
F10	83.050	82.080	PPIC	0.450	B125	33.080	0.970	0.150	0.820	1:60	
F11	83.050	81.665	PPIC	0.450	B125	14.597	1.385	0.150	1.235	1:13	
FW	83.050	82.350	PPIC	0.450	B125	-	0.700	0.100	0.600	Varies	700mm Depth

△ All Pumping Station information is subject to change upon detailed design stage. The pumping station is to be designed to accommodate 24hr breakdown storage.

Issued for Stage 3	JJH	P04	JC	03.10.2022
Issued for Stage 3	JJH	P03	JC	08.09.2022
Issued for Stage 3	JJH	P02	JC	29.07.2022
Issued for Planning	JJH	P01	JC	23.03.2022
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 its 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	Project No.
Cleator Moor Innovation Quarter	21T2034

Drawing Title
Hub - Manhole Schedule

Drawn	Date	Checked	Date	Size	Scale	Class.	Rev.
JJH	March 2021	JC	March 2021	A1	1:1000	52	P04

Location	Originator	Volume	Level	Type	Role	Unique No.
CMIQ	BGP	05	XX	DR	C	05131

File Reference
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