



GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
- THIS DRAWING HAS BEEN BASED UPON SURVEY / INFORMATION SUPPLIED BY OTHERS. ROYAL HASKONING DHV SHALL NOT BE LIABLE FOR ANY INACCURACY OR DEFICIENCIES ARISING FROM IT.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- ALL MATERIALS AND WORKMANSHIP WILL BE AS SPECIFIED IN THE SPECIFICATION UNLESS NOTED OTHERWISE.
- ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK ON SITE.

- KEY:
- PROPOSED SURFACE WATER SEWER, MANHOLE AND LATERAL
 - PROPOSED FOUL WATER SEWER, MANHOLE AND LATERAL
 - PROPOSED SURFACE WATER LATERAL DRAIN CONNECTIONS (LOCATION AND DIMENSIONS TO BE CONFIRMED)
 - PROPOSED FOUL WATER LATERAL DRAIN CONNECTIONS (LOCATION AND DIMENSIONS TO BE CONFIRMED)
 - RESERVED MATTERS APPLICATION BOUNDARY
 - PROPOSED DRY SWALE
 - PROPOSED FLOW CONTROL MANHOLE (REFER TO STANDARD DETAILS DRAWING PB8301-RHD-DE-A3-DR-D-0530)
 - LIST OF FLOW CONTROL DEVICES (REFER TO DRAWING PB8301-RHD-DE-A3-DR-D-055)
 - AREA 3 OUTFALL 1:
FC01-01 Hydrobrake @ 10/s 150mm Above Inv
FC01-02 Ø120 mm Orifice 500mm Above Inv
 - PROPOSED HEADWALL (REFER TO STANDARD DETAIL DRAWING PB8301-RHD-DE-A3-DR-D-0532)
 - PROPOSED CULVERT (REFER TO STANDARD DETAIL DRAWING PB8301-RHD-DE-A3-DR-D-0531)
 - SECTION OF FOUL SEWER TO BE DIRECTIONAL DRAIN UNDER WATERCOURSE
 - EXISTING WATER COURSES
 - INDICATIVE FUTURE ACCESSES FOR CYCLEWAYS / RESIDENTIAL ROADS ON AREAS 3 AND 5
 - PROPOSED 6m ANGLIAN WATER EASEMENT
 - MAINTENANCE STRIP (3m)

NOT FOR CONSTRUCTION

Outfall	Land use	Pollution hazard index	Total Suspended Solid (TSS)	Metals	Hydro-carbons	SuDS Index			
						SuDS Treatment (1 to n)	TSS	Metals	Hydro-carbons
1	Individual property driveways, residential car parks, low traffic roads and non residential car parking with infrequent change	Low	0.5	0.4	0.4	Swale (1)	1.1	1.15	1.15
						Pond (2)			
						Swale (3)			
2	Commercial yard and delivery areas, non-residential car parking with frequent change, all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7	Swale (1)	0.75	0.85	1.15
						Detention Basin (2)			
3	Individual property driveways, residential car parks, low traffic roads and non residential car parking with infrequent change	Low	0.5	0.4	0.4	Swale (1)	0.85	0.95	0.85
						Pond (2)			
4	Commercial yard and delivery areas, non-residential car parking with frequent change, all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7	Detention Basin (1)	0.75	0.8	0.8
						Swale (2)			
5	Commercial yard and delivery areas, non-residential car parking with frequent change, all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7	Detention Basin (1)	0.75	0.8	0.8
						Swale (2)			

SuDS treatment (treatment train position 1 to n)			
Swale	0.5	0.6	0.6
Ponds	0.7	0.7	0.5
Detention Basin	0.5	0.5	0.5

TABLE 2. SuDS WATER TREATMENT

Catchment	Site Area (ha)	Open space area (ha)	Area Positively drain (APD)	Impermeable Area (IA)			Discharge Rates (IH24)			Storage Required			Storage Provided on SuDS						
				Ratio	Value	Total	1 in 1 Q (l/s.ha) = 2.00	1 in 30 Q (l/s.ha) = 5.31	1 in 100 Q (l/s.ha) = 7.37	Attenuation (IH24) (m³/ha) = 18.343/22.53 = 814.16	LTS (IH24) (m³/ha) = 2649/22.53 = 117.58	Interception Volume (m³) generated for the first 5mm of rainfall (5mm x IA)	Total Volume available (m³)	LTS Available (m³)	Interception available (m³)				
Outfall 1			Area 1.1	2.57	0.55	1.41													
			Area 1.2	1.93	0.60	1.16													
			Area 2.1	1.02	0.60	0.61													
Outfall 2			Area 2.2	5.27	0.60	3.16													
			Area 2.3 (Local Center)	1.27	0.80	1.02				14.57	38.69	53.70	5932	857	364	6429	1350	102	
			Area 2.4 (School)	2.46	0.60	1.48													
Outfall 3			Area 2.5 (Care Home)	1.70	0.60	1.02	7.29												
			Area 3	8.14	0.60	4.88	4.88	9.77	25.93	36.00	3976	574	244	5463		5463			
Outfall 4			Area 4.1	2.15	0.60	1.29	1.29												
			Area 4.2	4.78	0.60	2.87	2.87				9.78	25.97	36.04						
			Area 4.3	1.22	0.60	0.73	0.73	4.89						596	88	37	4032	480	4032
Outfall 5			Area 5	3.64	0.60	2.18	2.18				4.37	11.60	16.10	1778	257	109	1820	312	76
			Area 6	1.20	0.60	0.72	0.72				1.44	3.82	5.31	586	85	36	528	66	16
TOTAL	73.25	35.90		37.35		22.53						18347	2650	1127	28623	4447	18102		

TABLE 1. CATCHMENT AREAS, FLOWS AND STORAGE ASSESSMENT

REPRODUCED FROM ORDNANCE SURVEY MAPS WITH PERMISSION FROM THE CONTROLLER OF HM STATIONERY OFFICE. CROWN COPYRIGHT RESERVED. LICENCE No. 100023422 2007.

P01	27.01.20	DRAWING ISSUED FOR PLANNING APPLICATION	RMV	PV
REV	DATE	DESCRIPTION	BY	CHK

REVISIONS

DRAWING STATUS: PRELIMINARY

CLIENT



TITLE

HV DIVERSION RMA
DRAINAGE STRATEGY



DRAWN	CHECKED	APPROVED
RMV	PV	DJ
DATE	SCALE AT A1	PROJECT NUMBER
JAN-20	1:1250	PB8301