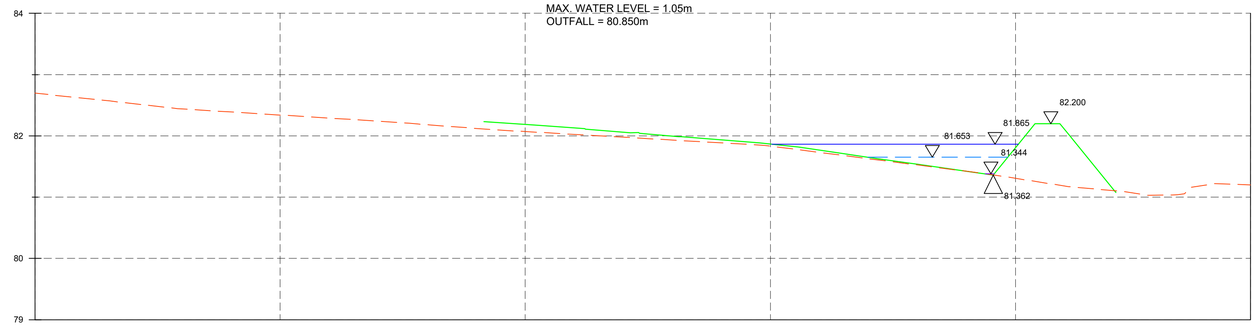
DRAWING No.
PB8301-RHD-DE-H1-DR-D-0556

DO NOT SCALE

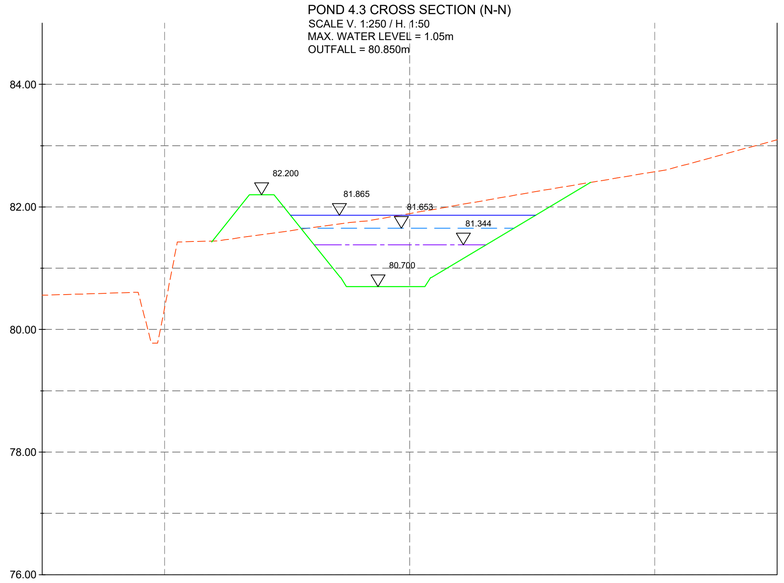
POND 4.3 LONGSECTION (M-M)

SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 1.05m
OUTFALL = 80.850m



POND 4.3 CROSS SECTION (N-N)

SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 1.05m
OUTFALL = 80.850m

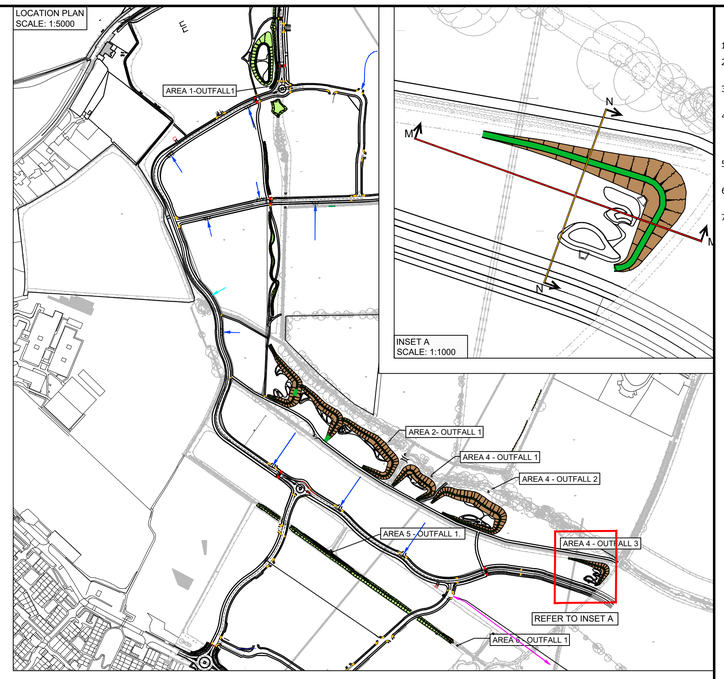


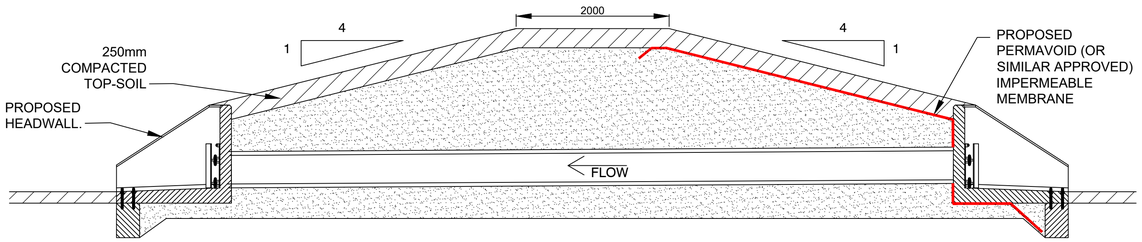
Catchment	Greenfield Conditions			Networks													
	Required Discharge rates (IH124)			Outfall - Flow control system								Discharge rates(Q)/ Water levels on Detention Basin(WL)					
												Q1 in 1		Q1 in 30		Q1 in 100	
	Q1 in 1	Q1 in 30	Q1 in 100	Outfall number	DS Pipe number	Manhole number	Cover Level	Invert Level	Flow control Ref.	Type	Depth Above Invert(mm)	Q	WL	Q	WL	Q	WL
Area 4	9.80	25.96	36.04	Outfall 4.1	10.007	S4.57FC	86.400	84.700	FC04-01	Hydrobrake	0	3.00	85.963	3.00	86.020	5.90	86.136
									FC04-02	Ø100mm Pipe	750						
				Outfall 4.2	4.013	S4.36FC	86.200	83.800	FC04-03	Hydrobrake	0	5.00	85.058	10.30	85.525	20.70	85.900
									FC04-04	Ø100mm Pipe	1000						
				Outfall 4.3	2.006	S4.08FC	82.650	80.840	FC04-05	Hydrobrake	0	1.80	81.344	1.80	81.653	8.90	81.865
									FC04-06	Ø100mm Pipe	900						
									TOTAL			9.80		15.10		35.50	

TABLE 1 - DISCHARGE DETAILS

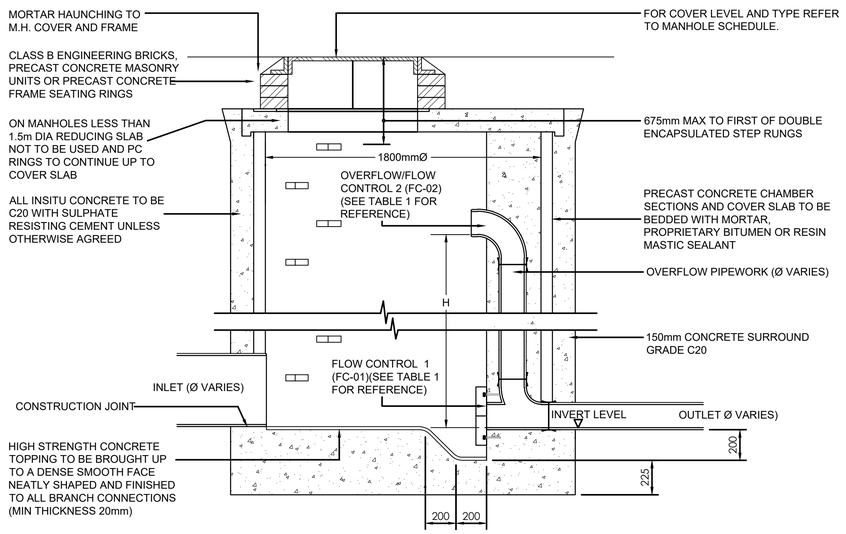
Detention Basin 4.3			
Depth(m)	Area(m²)	Estimated Volume(m³) (A1+A2)/2 × H	Cumulative Volume(m³)
-0.150	269.9	39.1	39.1
0.000	187.0	0.0	39.1
0.250	312.0	56.1	95.3
0.500	513.2	103.2	198.4
0.750	732.8	155.8	354.2
1.000	968.5	212.7	566.8
1.250	1259.2	279.5	846.3
1.500	1510.0	358.7	1205.0
TOTAL		1205.00	1205.0

TABLE 2 - DETENTION BASIN 4.3 VOLUME DETAILS





TYPICAL DETENTION BASIN MOUND DETAIL (NTS)



SECTION THROUGH FLOW CONTROL MANHOLE

SCALE 1:20

GENERAL NOTES

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

KEY

- CROSS/LONGITUDINAL SECTION
- EXISTING GROUND PROFILE
- PROPOSED GROUND PROFILE
- 1 IN 1 STORM WATER PROFILE
- 1 IN 30 STORM WATER PROFILE
- 1 IN 100 +30% CC STORM WATER PROFILE

REV	DATE	DESCRIPTION	BY	CHK	APP
I03	24/02/20	UPDATED POND LAYOUT	JBW	PV	DJ
I02	11.02.20	UPDATED POND DISCHARGE RATES	JBW	PV	DJ
I01	22.03.19	FIRST ISSUE	JBW	PV	DJ

REVISIONS

DRAWING STATUS: INFORMATION

CLIENT: REDROW

PROJECT: GREAT WILSEY PARK

TITLE: DETENTION BASIN 4.3 DETAILS

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DRAWN	CHECKED	APPROVED
JBW	PV	DJ
DATE: MAR-19	SCALE AT A1: AS SHOWN	PROJECT NUMBER: PB8301

DRAWING No.: PB8301-RHD-DE-H1-DR-D-0556

REVISION: I03

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