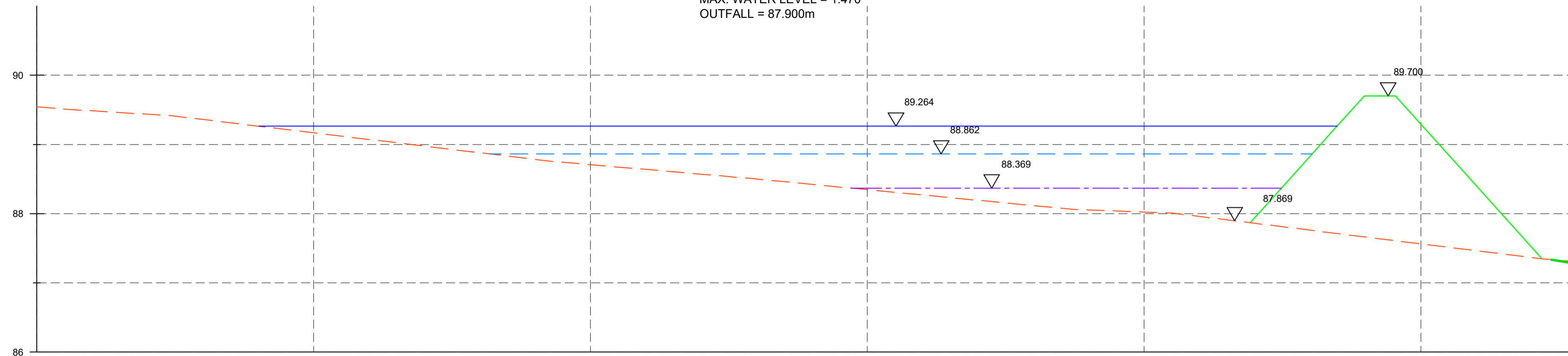
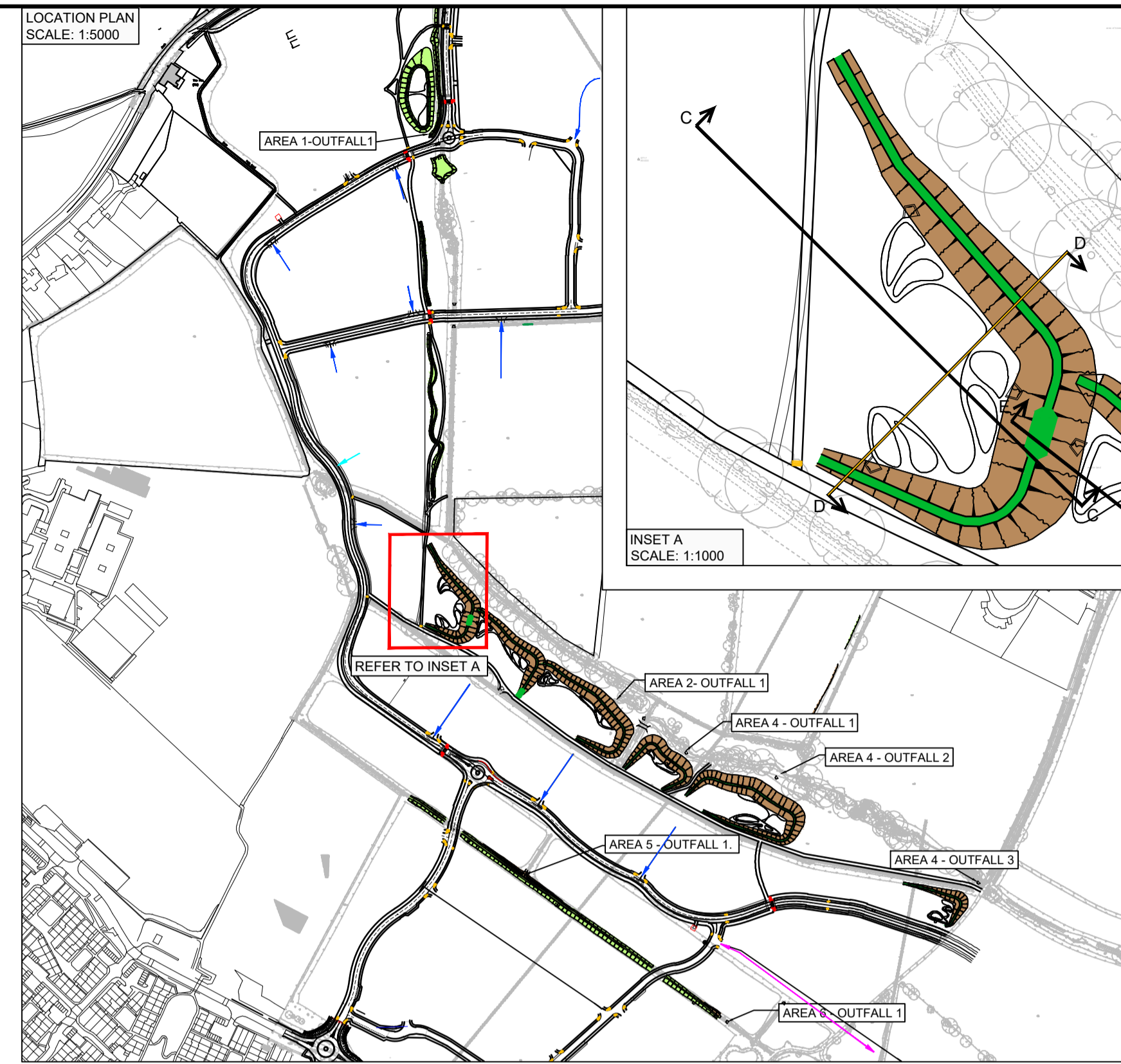
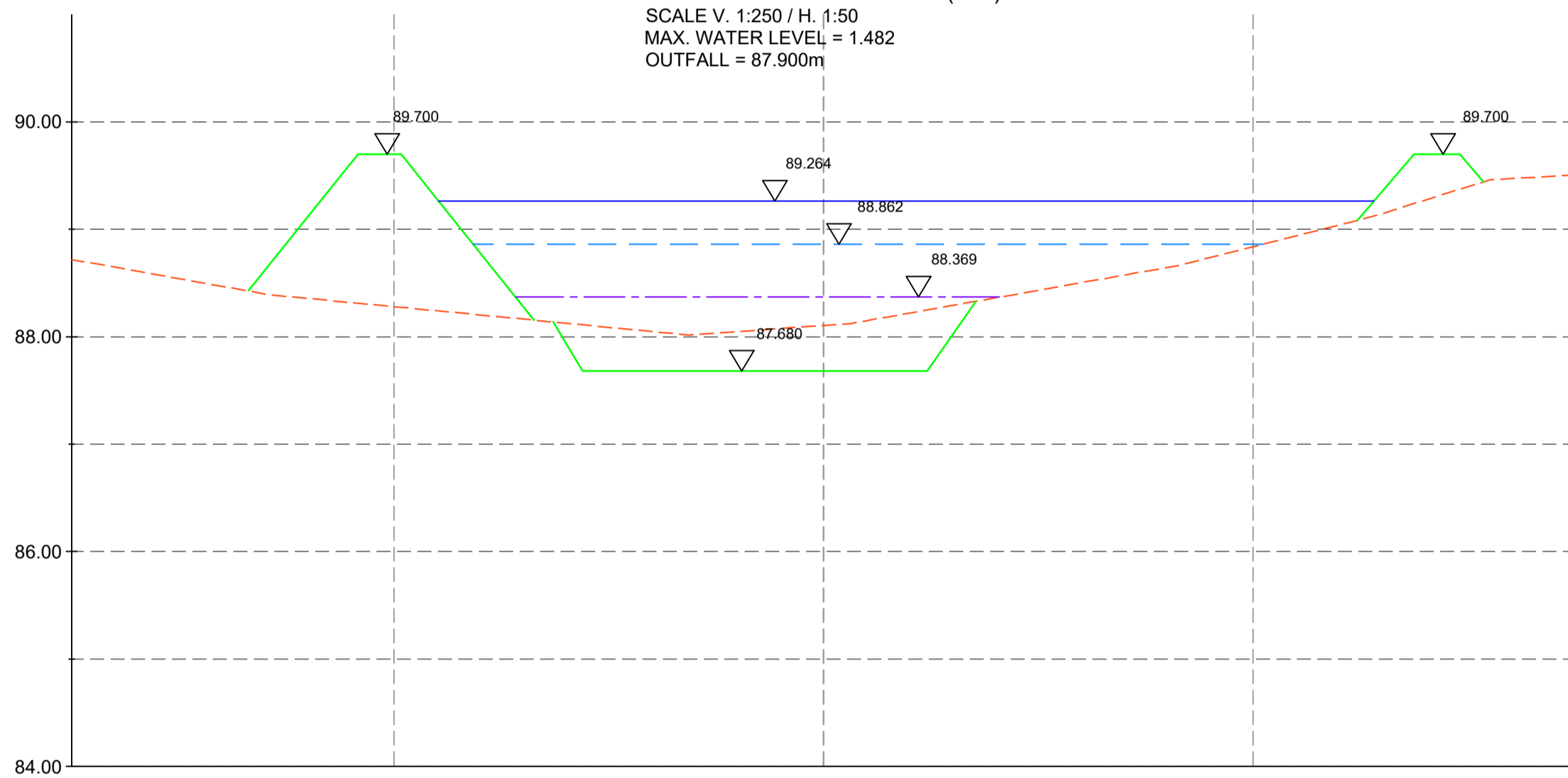


POND 2.1 LONGSECTION (C-C)  
SCALE V. 1:250 / H. 1:50  
MAX. WATER LEVEL = 1.470  
OUTFALL = 87.900m



POND 2.1 CROSS SECTION (D-D)  
SCALE V. 1:250 / H. 1:50  
MAX. WATER LEVEL = 1.482  
OUTFALL = 87.900m

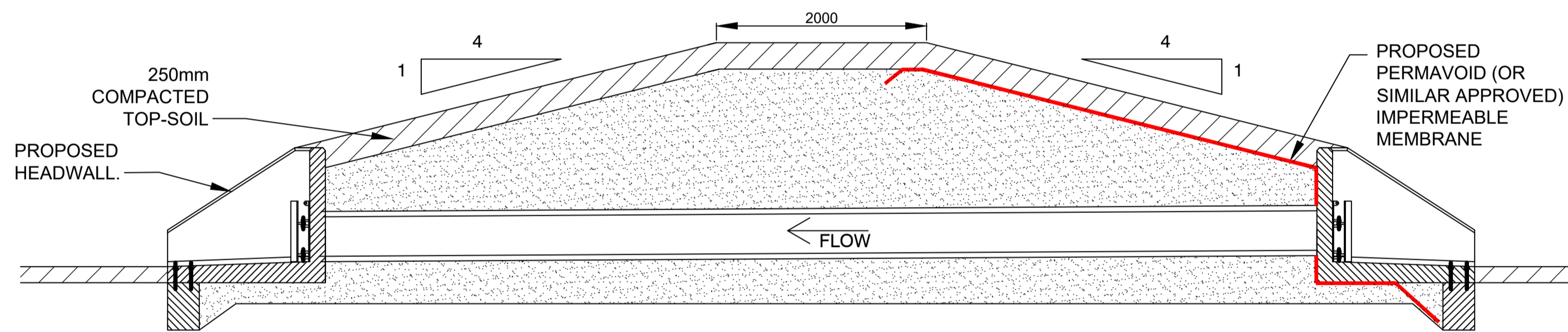


GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
- 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.
- 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

- 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



TYPICAL DETENTION BASIN MOUND DETAIL (NTS)

Catchment	Greenfield Conditions			Networks													
	Required Discharge rates (RH24)			Outfall - Flow control system						Discharge rates (Q) Water levels (WL)							
	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 (m)	Q1 in 1	Q1 in 30	Q1 in 100			
Area 2	14.57	38.69	53.70	n/a	8.009	S2.46	89.70	87.90	n/a	Ø375mm Pipe	0	88.369	88.862	89.264			
				n/a	8.012	S2.49	88.50	86.74	n/a	Ø300mm Pipe	0	87.351	87.816	88.098			
				Area 2 Outfall 1	8.016	S2.53FC	87.40	85.41	FCCO-01	Ø80mm Plate	0	12.20	86.501	26.20	86.848	53.30	87.066
								FCCO-02	Ø180mm Pipe	1200							
				TOTAL							12.20	26.20	53.30				

TABLE 1 - DISCHARGE DETAILS

Detention Basin 2.1			
Depth (m)	Area (m <sup>2</sup> )	Estimated Volume (m <sup>3</sup> ) (A x D x 0.5 x H)	Cumulative Volume (m <sup>3</sup> )
-0.150	534.8	80.2	80.2
0.000	0.4	0.0	80.2
0.200	272.3	34.9	115.1
0.500	869.0	119.6	234.7
0.750	1066.0	219.0	453.7
1.000	1400.0	319.5	773.3
1.250	2164.0	495.5	1268.8
1.500	2507.0	502.5	1611.5
TOTAL		1611.5	1611.5

TABLE 2 - DETENTION BASIN 2.1 VOLUME DETAILS

REV	DATE	DESCRIPTION	BY	CHK	APP
103	24/02/20	UPDATED POND LAYOUT	JBW	PV	DJ
102	11/02/20	UPDATED POND DISCHARGE RATES	JBW	PV	DJ
101	22/03/19	FIRST ISSUE	JBW	PV	DJ

REVISIONS

DRAWING STATUS

INFORMATION

CLIENT



PROJECT



TITLE

DETENTION BASIN 2.1  
DETAILS

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

DRAWING No.	REVISION
PB8301-RHD-DE-H1-DR-D-0551	103