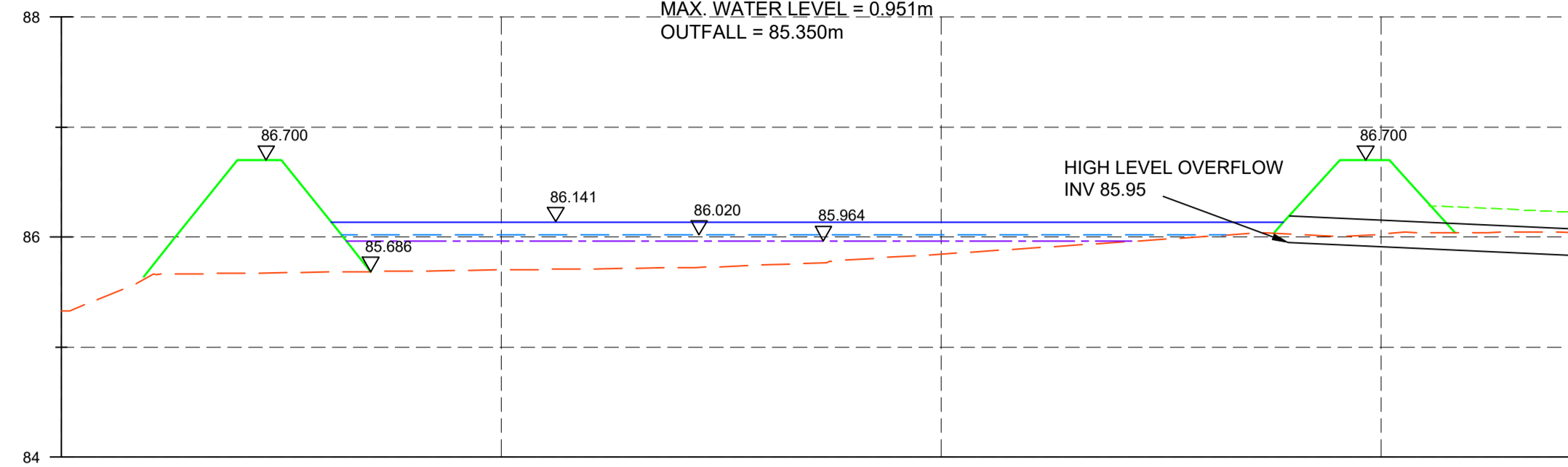
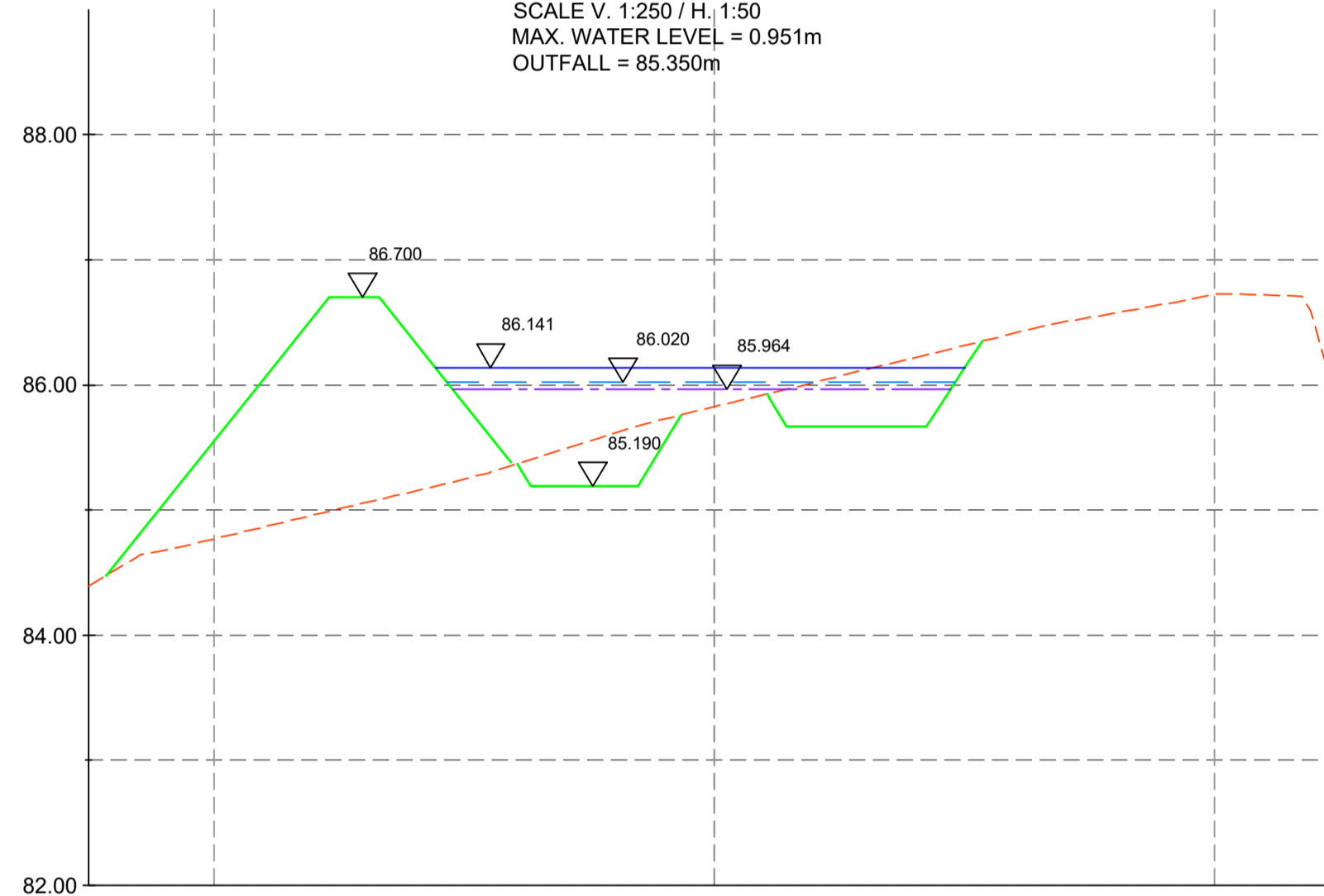


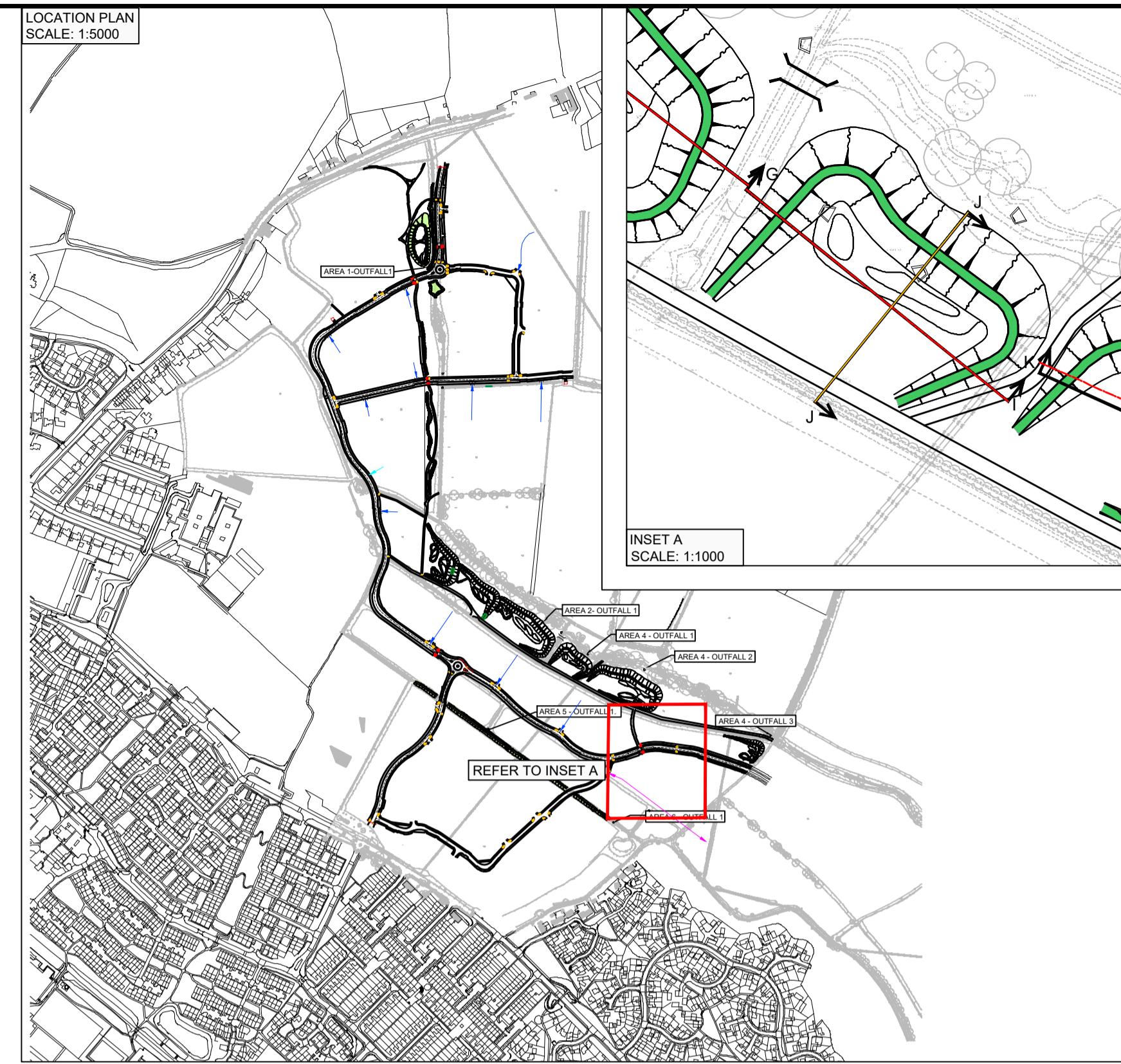
POND 4.1 LONGSECTION (I-I)
SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 0.951m
OUTFALL = 85.350m



POND 4.1 CROSS SECTION (J-J)
SCALE V. 1:250 / H. 1:50
MAX. WATER LEVEL = 0.951m
OUTFALL = 85.350m



LOCATION PLAN
SCALE: 1:5000

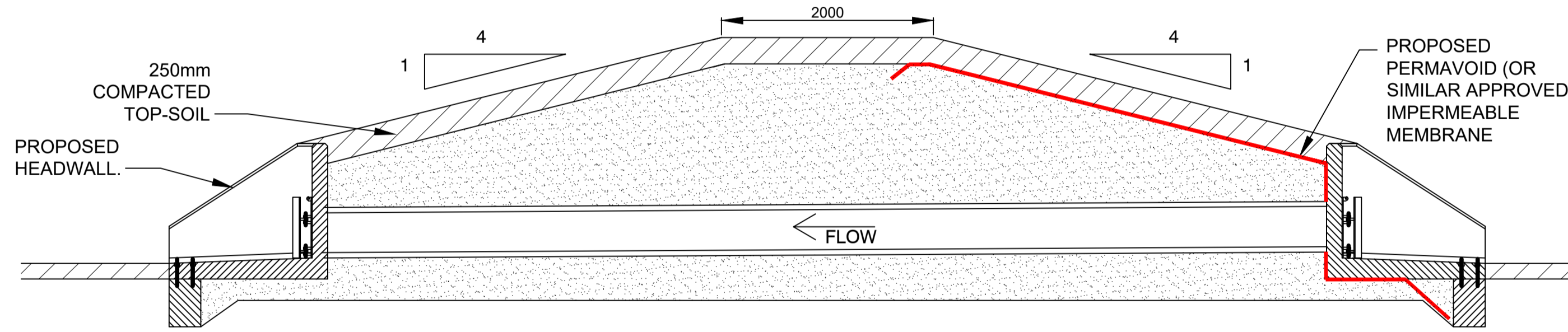


GENERAL NOTES

- 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



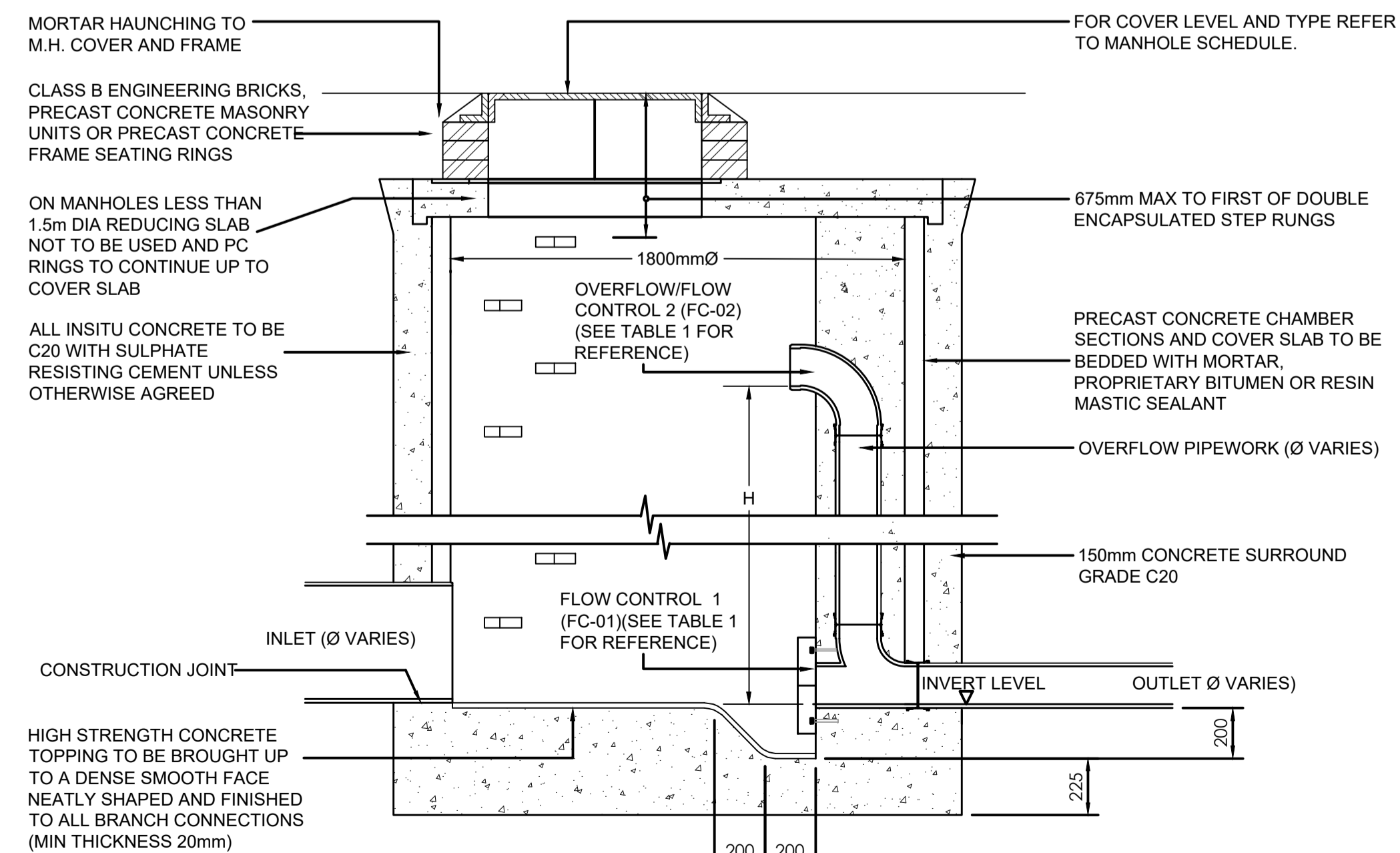
TYPICAL DETENTION BASIN MOUND DETAIL (NTS)

Catchment	Greenfield Conditions			Networks													
	Required Discharge rates (IH124)			Outfall - Flow control system							Discharge rates(Q) / Water levels on Detention Basin(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(mm)	Q1 in 1	Q1 in 30	Q1 in 100			
Area 4	9.80	25.96	36.04	Outfall 4.1	10.007	S4.57FC	86.400	84.700	FCO4-01	Hydrobrake	0	2.90	85.964	3.10	86.020	9.30	86.141
									FCO4-02	Ø100mm Pipe	1300						
				Outfall 4.2	4.013	S4.36FC	86.200	84.800	FCO4-03	Hydrobrake	0	4.70	85.057	10.50	85.525	19.70	85.900
									FCO4-04	Ø100mm Pipe	1600						
				Outfall 4.3	2.006	S4.08FC	82.650	80.840	FCO4-05	Hydrobrake	0	1.80	81.344	1.80	81.653	7.30	81.865
									FCO4-06	Ø100mm Pipe	900						
												9.40	15.40	38.30			

TABLE 1 - DISCHARGE DETAILS

Detention Basin 4.1			
Depth(m)	Area(m²)	Estimated Volume(m³) (A1+A2)/2 x H	Cumulative Volume(m³)
-0.150	446.6	66.3	66.3
0.000	70.5	0.0	66.3
0.200	546.0	16.9	143.8
0.500	666.7	151.9	255.2
0.750	1223.4	211.1	526.3
1.000	1388.1	301.4	807.8
1.250	0.0	0.0	807.8
1.500	0.0	0.0	807.8
TOTAL	0.0	807.8	807.8

TABLE 2 - DETENTION BASIN 4.1 VOLUME DETAILS



SECTION THROUGH FLOW CONTROL MANHOLE

SCALE 1:20

REV	DATE	DESCRIPTION	BY	CHK	APP
104	25/03/20	UPDATED TO LOCAL AUTHORITY COMMENTS	JBW	PV	DJ
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

INFORMATION

CLIENT: REDROW

PROJECT: GREAT WILSEY PARK

TITLE: DETENTION BASIN 4.1 DETAILS

REVISIONS

DETENTION BASIN 4.1 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-0554	104