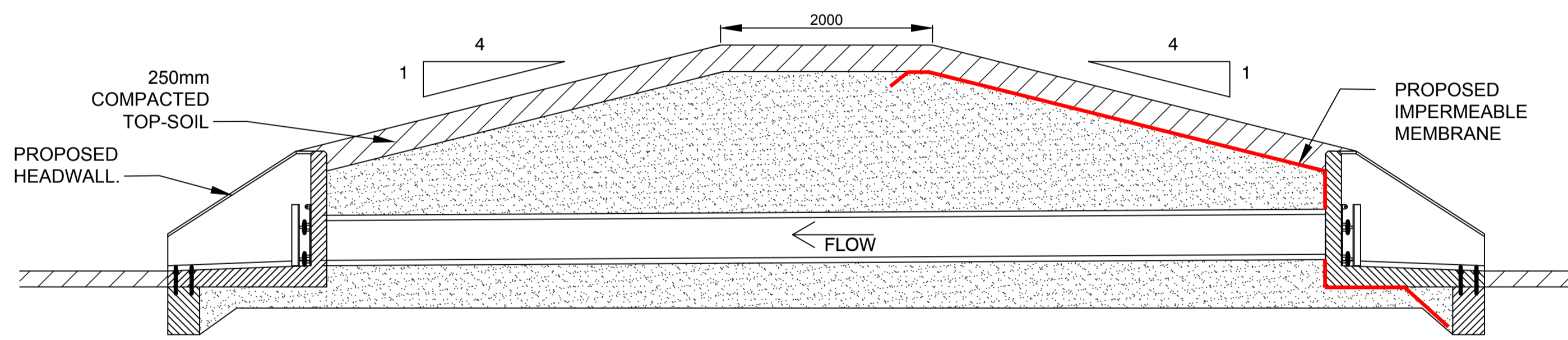


- GENERAL NOTES**
- DO NOT SCALE FROM THIS DRAWING.
  - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  - ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM UNLESS NOTED OTHERWISE.
  - THIS DRAWING HAS BEEN BASED UPON SURVEY / OS INFORMATION SUPPLIED BY OTHERS. ROYAL HASKONING DHV SHALL NOT BE 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**
- CROSSLONGITUDINAL 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

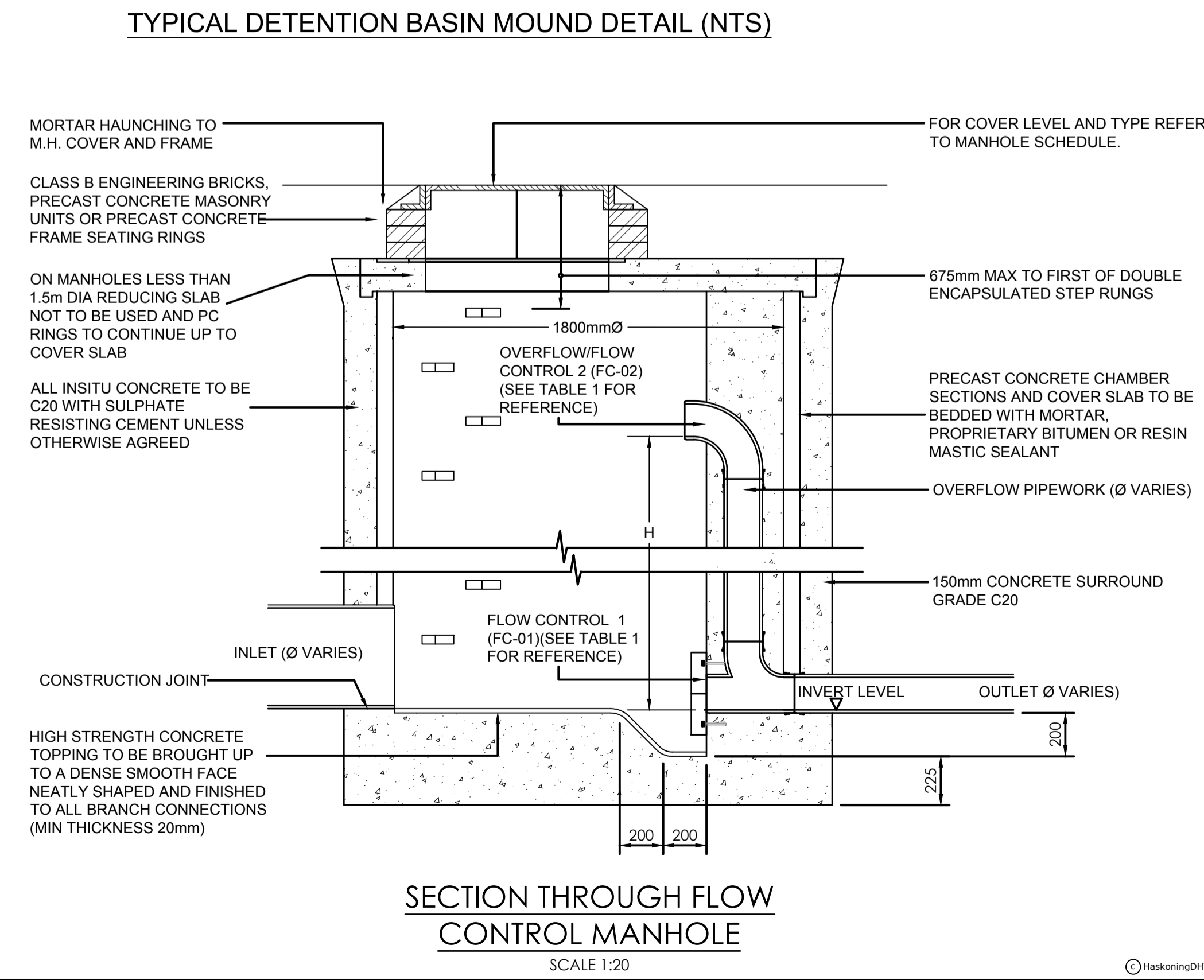


Catchment	Greenfield Conditions			Networks															
	Required Discharge rates (H124)			Outfall - Flow control system						Discharge rates(Q)/ Water levels on Detention Basin(WL)									
	Q1 in 1	Q1 in 30	Q1 in 100	Outfall number	DS Pipe number	Manhole number	Cover Level	Invert Level	Flow control Ref.	Type	Depth Above Invert(mm)	Q1 in 1		Q1 in 30		Q1 in 100			
Area 4	11.00	25.96	30.04	Outfall 4.1	13.010	S4.72 FC	86.700	85.340	FCD4-01	Hydrobrake	0	2.30	85.761	4.40	86.119	13.30	86.357		
										FCD4-02	Ø100mm Pipe	700							
				Outfall 4.2	3.007	S4.48 FC	86.200	84.390	FCD4-03	Hydrobrake	0	5.00	85.000	5.20	85.425	15.60	85.727		
												FCD4-04	Ø100mm Pipe	1000					
				Outfall 4.3	1.008	S4.11 FC	82.650	80.840	FCD4-05	Hydrobrake	0	2.00	81.202	2.00	81.543	4.10	81.830		
												FCD4-06	Ø100mm Pipe	900					
				TOTAL								9.30		11.60		33.00			

TABLE 1 - DISCHARGE DETAILS

Detention Basin 4.2			
Depth(m)	Area(m²)	Estimated Volume(m³) (A1+A2)/2 x H	Cumulative Volume(m³)
0.150	931.0	139.7	139.7
0.000	335.0	0.0	139.7
0.250	548.3	110.4	250.1
0.500	1068.0	202.2	452.2
0.750	1635.4	338.1	790.3
1.000	2310.2	493.2	1283.5
1.250	2954.5	658.1	1941.6
1.500	3305.2	782.5	2724.0
<b>TOTAL</b>		<b>2724.03</b>	<b>2724.0</b>

TABLE 2 - DETENTION BASIN 4.2 VOLUME DETAILS



01	22.03.19	FIRST ISSUE	JBW	PV	DJ
REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS INFORMATION

CLIENT: **REDROW**

PROJECT: **GREAT WILSEY PARK**

DETENTION BASIN 4.2 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-0555	101

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