

PIT No.	TYPE	SIZE (W x L)	TOP R.L.	DEPTH (mm)	IL INLET	DIA INLET	IL OUTLET	DIA OUTLET	REMARKS
P1	RAINGARDEN	600 x 600	2.20	850	N/A	N/A	1.35	2250	CLASS 'B' LID
P2	RAINGARDEN	600 x 600	2.20	850	N/A	N/A	1.35	2250	CLASS 'B' LID
P3	RAINGARDEN	600 x 600	2.10	850	N/A	N/A	1.25	2250	CLASS 'B' LID
P4	RAINGARDEN	600 x 600	2.10	850	N/A	N/A	1.25	2250	CLASS 'B' LID
P5	GATIC PIT	450 x 450	2.40	600	N/A	FROM TANK	1.80	2250	CLASS 'D' LID
P6	GATIC PIT	450 x 450	2.30	580	1.72	2250 FROM P5	1.72	2250	CLASS 'D' LID
P7	GATIC PIT	900 x 900	2.10	990	1.25	2250 FROM P3	1.11	4500	CLASS 'D' LID
P8	GATIC PIT	900 x 900	2.10	1050	1.25	2250 FROM P4	1.05	4500	CLASS 'D' LID
P9	GATIC PIT	600 x 900	2.40	1090	1.31	2250 FROM P1	1.31	3000	CLASS 'D' LID
P10	GATIC PIT	600 x 900	2.40	1160	1.33	2250 FROM P2	1.24	3000	CLASS 'D' LID
P11	GATIC PIT	900 x 900	2.20	1030	1.17	3000 FROM P10	1.17	4500	CLASS 'D' LID
P12	GATIC PIT	900 x 900	2.20	1130	1.60	2250 FROM P6	1.07	4500	CLASS 'D' LID
P13	ORIFICE PIT	900 x 1950	2.10	1070	1.03	4500 FROM P8	1.03	3000 TO LPOD	REFER DETAIL, 950 ORIFICE & 10mm PLATE

- NOTES:**
- ALL PIT LIDS IN TRAFFICABLE AREAS TO BE NO LESS THAN CLASS D, UNLESS NOTED OTHERWISE.
 - ALL PITS AND PIPES MUST BE IN ACCORDANCE WITH THE IDM AND ANY RELEVANT AUSTRALIAN STANDARDS.
 - ALL GRATED PITS MUST HAVE BIKE SAFE LIDS WHEN IN TRAFFICABLE AREAS.

WARNING - BEWARE OF UNDERGROUND SERVICES

THE LOCATION OF UNDERGROUND SERVICES IS APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEES GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

BUILDER TO ENSURE THAT NO PART OF THE PROPOSED BUILDING FOUNDATIONS OR DRAINAGE EXTEND OVER THE BOUNDARY LINE.

CONTRACTOR TO CHECK FOR POWER, WATER, GAS, STORM WATER, SEWER, PHONE AND ANY OTHER SERVICE PRIOR TO EXCAVATION OF FOOTING OR INSTALLATION OF DRAINAGE PIPE.

IF THE CONDITIONS ON SITE DIFFER, CONTACT STRUCTPLAN ENGINEERS FOR FURTHER RECOMMENDATIONS.

TOTAL SITE AREA	2400 m ²
IMPERVIOUS AREA	2209 m ²
PERVIOUS AREA	191 m ²
PERMISSIBLE SITE DISCHARGE	16.43 L/s
REQUIRED DETENTION VOLUME	17.34 m ³

P13 TOP OF BAFFLE WALL R.L.	1.90
P13 BAFFLE WALL HEIGHT	870mm
P13 ORIFICE DIAMETER	900
P13 ORIFICE DISCHARGE RATE	15.36 L/s
2 / 600 x 900 PIT DETENTION	0.67 m ³
5 / 900 x 900 PIT DETENTION	3.29 m ³
3000 PIPE x 26.2m	1.85 m ³
4500 PIPE x 62.4m	9.92 m ³
5000L TANK DETENTION VOL.	5.00 m ³
TOTAL DETENTION VOLUME	20.73 m³

CIVIL DRAINAGE PLAN

SCALE: 1:150

- LEGEND:**
- * R.L. 45.45 DENOTES FLOOR LEVEL
 - IL 44.75 DENOTES INVERT LEVEL OF PIPE
 - 1000 UPVC @ 1 in 100 DENOTES NEW STORMWATER PIPE
 - IO DENOTES INSPECTION OPENING
 - DP DENOTES DOWNPIPES
 - SV DENOTES SLIDE VALVE
 - ⊕ DENOTES NEW PIT - REFER DETAILS.

150 THICK R.C. SLAB. F_c = 32 MPa
PROVIDE SL92 TOP. 50 COVER ON 0.2mm THICK VAPOUR BARRIER OVER 150 CLASS 3 F.C.R. SUBBASE COMPACTED TO 98% STANDARD. TRIM, COMPACT AND PROOF ROLL SUBGRADE UNSTABLE AREAS TO BE REPLACED WITH 20mm NDCR TO ACHIEVE DESIGN CBR OF 5% PROVIDE 2-N12 x 1000 LONG TOP TO ALL RE-ENTRANT CORNERS (TYPICAL)

LANDSCAPE DRAINAGE NOTE:
CONNECT ALL AGI DRAIN IN LANDSCAPE AREA TO DRAINAGE NETWORK IN ACCORDANCE WITH AS 3500.

SAW CUT NOTE:
PROVIDE SAW CUT JOINTS AT 4 - 5 METRE MAXIMUM CENTRES IN EACH DIRECTION (TYPICAL) AS SHOWN ON PLAN.

ROOF DRAINAGE NOTE:
PROVIDE 600 WIDE x 200 DEEP BOX GUTTERS WITH 600 x 600 x 150 DEEP SUMPS U.N.O. 1500 AERIAL DRAIN TO TANK WITH 1500 AERIAL OVERFLOW DRAIN TO EXTERNAL RAINHEAD. SIDE OVERFLOW DEVICE TO AS3500.3 DRAINAGE TO BE SEWER GRADE UPVC FOR CHARGED SYSTEM TO TANK REUSE PROVIDE 1500 DOWN PIPES TYPICAL (U.N.O.)

- NOTES:**
- ALL EXISTING AUTHORITY SERVICES WITHIN THE ROAD RESERVE & EASEMENT ARE TO BE PROVED (OFFSET, DEPTH & SIZE) PRIOR TO ANY CONSTRUCTION OF CIVIL WORKS.
 - EXISTING FOOTPATH AND DRIVEWAY CROSSINGS ARE TO BE SAWCUT AT CONSTRUCTION JOINTS AND REINSTATE FULL BAY.
 - ALL DRAINAGE TRENCH BACKFILL UNDER FOOTPATH, DRIVEWAY OR BEHIND KERB & CHANNEL IS TO FINE CRUSHED ROCK (FCR) CLASS 2 (WET-MIXED) AND COMPACTED AT 150mm EQUAL LAYERS TO 95% MODIFIED COMPACTION. DRAINAGE BEDDING IS TO BE 75mm, COMPACTED THICKNESS OF FINE CRUSHED ROCK (FCR) CLASS 2 (WET-MIXED) AND COMPACTED TO 95% MODIFIED COMPACTION.
 - CONTRACTOR OR BUILDER IS TO NOTIFY IN WRITING TO OWNER(S) AND LOCAL RESIDENTS OF NEIGHBOURING PROPERTIES WHICH WILL BE AFFECTED BY THE CIVIL WORKS GIVING AT LEAST 48 HOURS NOTICE IN WRITING.
 - PUBLIC SAFETY FOR ALL PEDESTRIANS AND VEHICULAR TRAFFIC MUST BE GIVEN AT ALL TIMES.
 - ADVISE TO RING MELBOURNE ONE CALL SERVICE INC. ON 1100 FOR EXISTING SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED DRAIN.
 - A ROAD OPENING PERMIT IS REQUIRED FROM COUNCIL FOR THE CIVIL WORKS WITHIN THE ROAD RESERVE. ALL WORKS IN THE ROAD RESERVE ARE TO BE REINSTATED TO THE SATISFACTION OF COUNCIL'S WORKS SUPERVISOR OR DRAINAGE ENGINEER. FOR INSPECTION OF WORKS, CONTACT COUNCIL'S WORKS SUPERVISOR OR PLANNING OFFICER GIVING AT LEAST 2 WORKING DAYS NOTICE. ALL REINSTATEMENT WORKS WITHIN THE ROAD RESERVE MUST BE COMPLETED WITHIN 14 DAYS OF THE COMMENCEMENT.

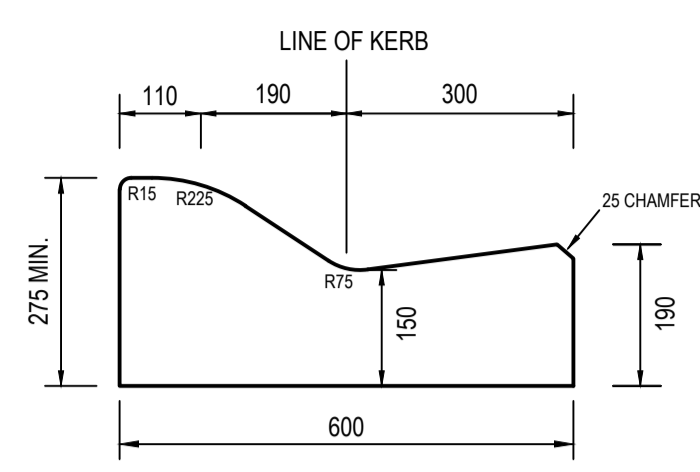
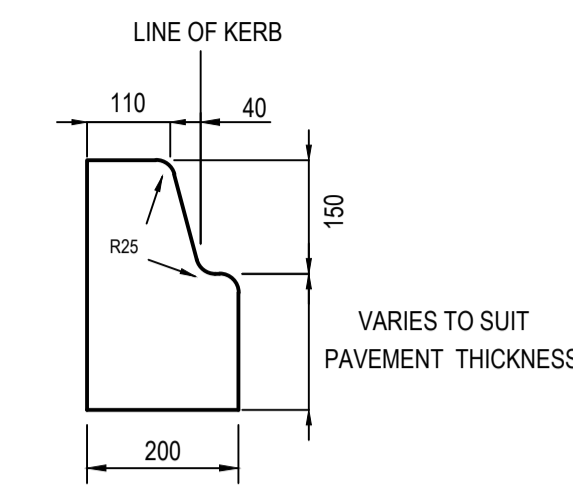
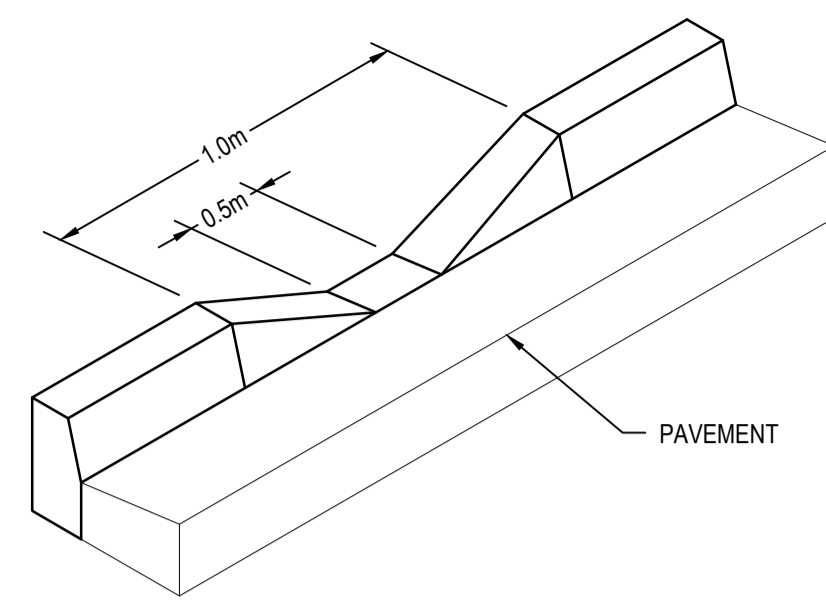
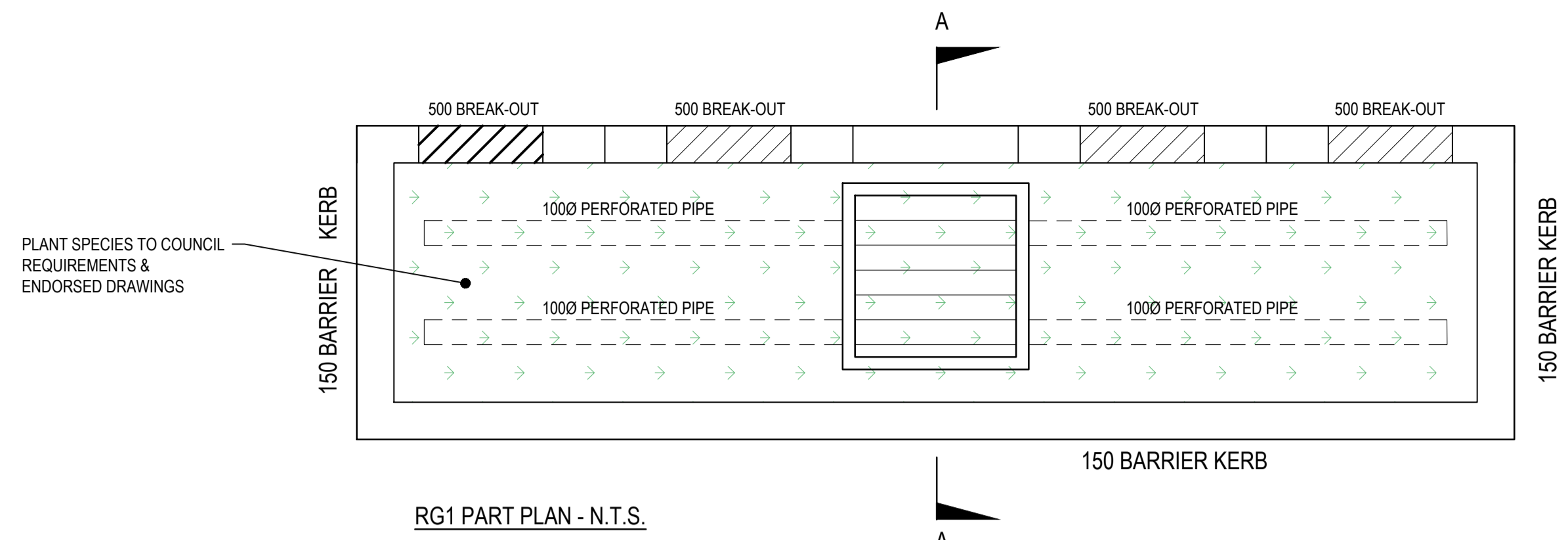
This copied document is made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach copyright legislation

No.	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE
B	PRELIMINARY ISSUE	G.P.	A.M.S.	A.M.S.	02.04.2026
A	PRELIMINARY ISSUE	G.P.	A.M.S.	A.M.S.	10.02.2026

PRELIMINARY

structplan ABN 56 126 995 953
302, 63 Stead Street, South Melbourne, VIC
Tel : 61 3 9068 0701
Email info@structplan.com.au
www.structplan.com.au
Structural Engineering - Design and Documentation

SCALE	AS NOTED	ORIGINAL SIZE	A1	CLIENT:	BRICLOK BUILDING DESIGN PTY. LTD.
DRAWN	G.P.	DESIGNED	A.M.S.	PROJECT:	266-270 PORTARLINGTON ROAD, MOOLAP
APPROVED	A.M.S.	DATE	APRIL 2026	TITLE:	CIVIL DRAINAGE PLAN
Copyright - This document is the property of Structplan.				DRAWING No:	STR603458 - C01
				REVISION:	B

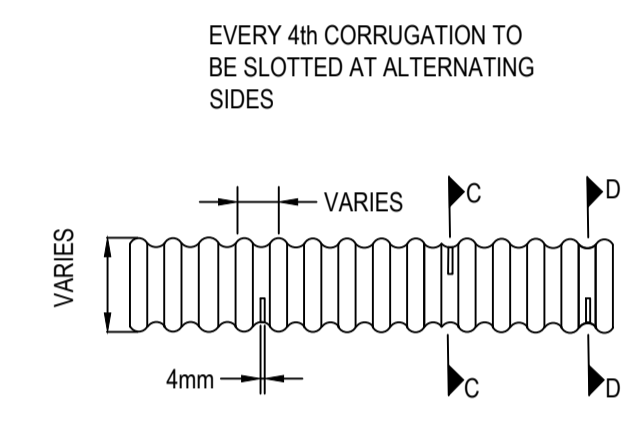
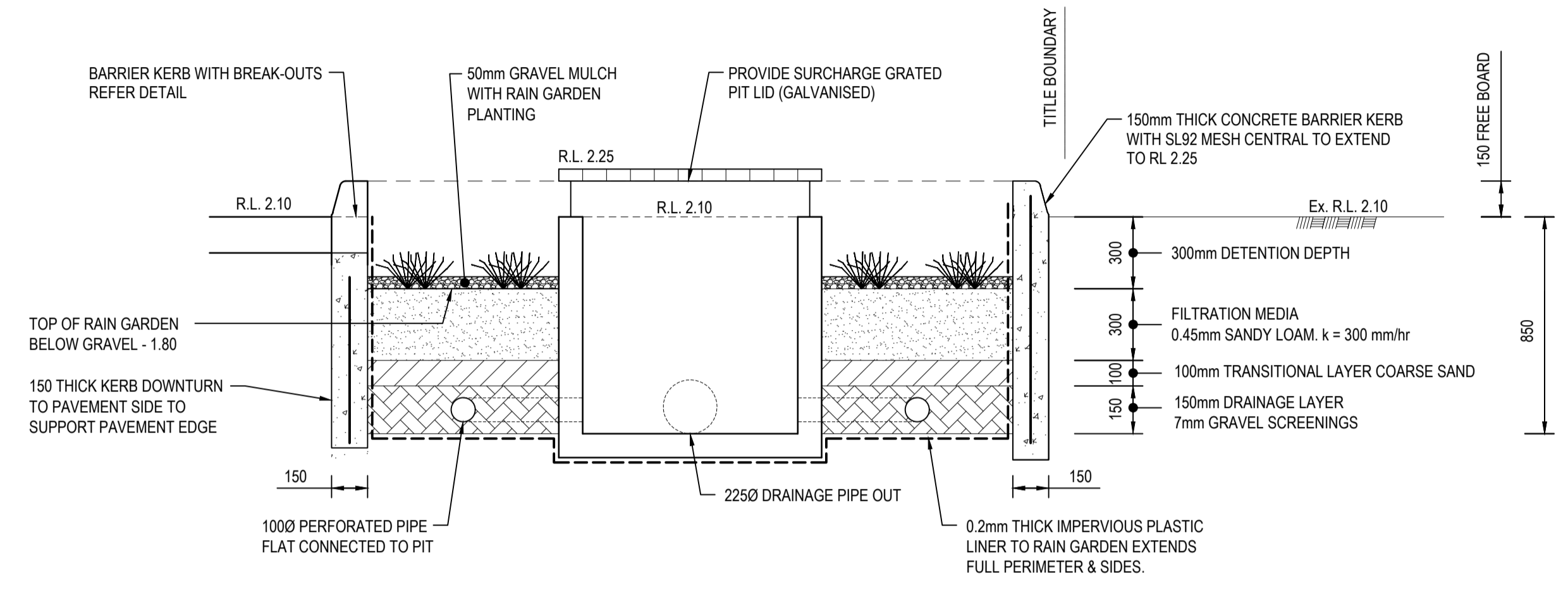


TYPICAL KERB BREAK-OUT DETAIL (NOT TO SCALE)

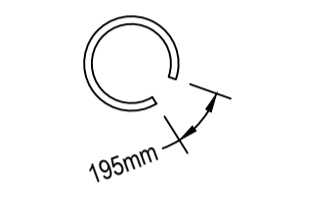
B1 BARRIER KERB

SM2 ROLLOVER KERB

TYPICAL KERB DETAILS NTS



PERFORATED PIPE DETAIL (NOT TO SCALE)

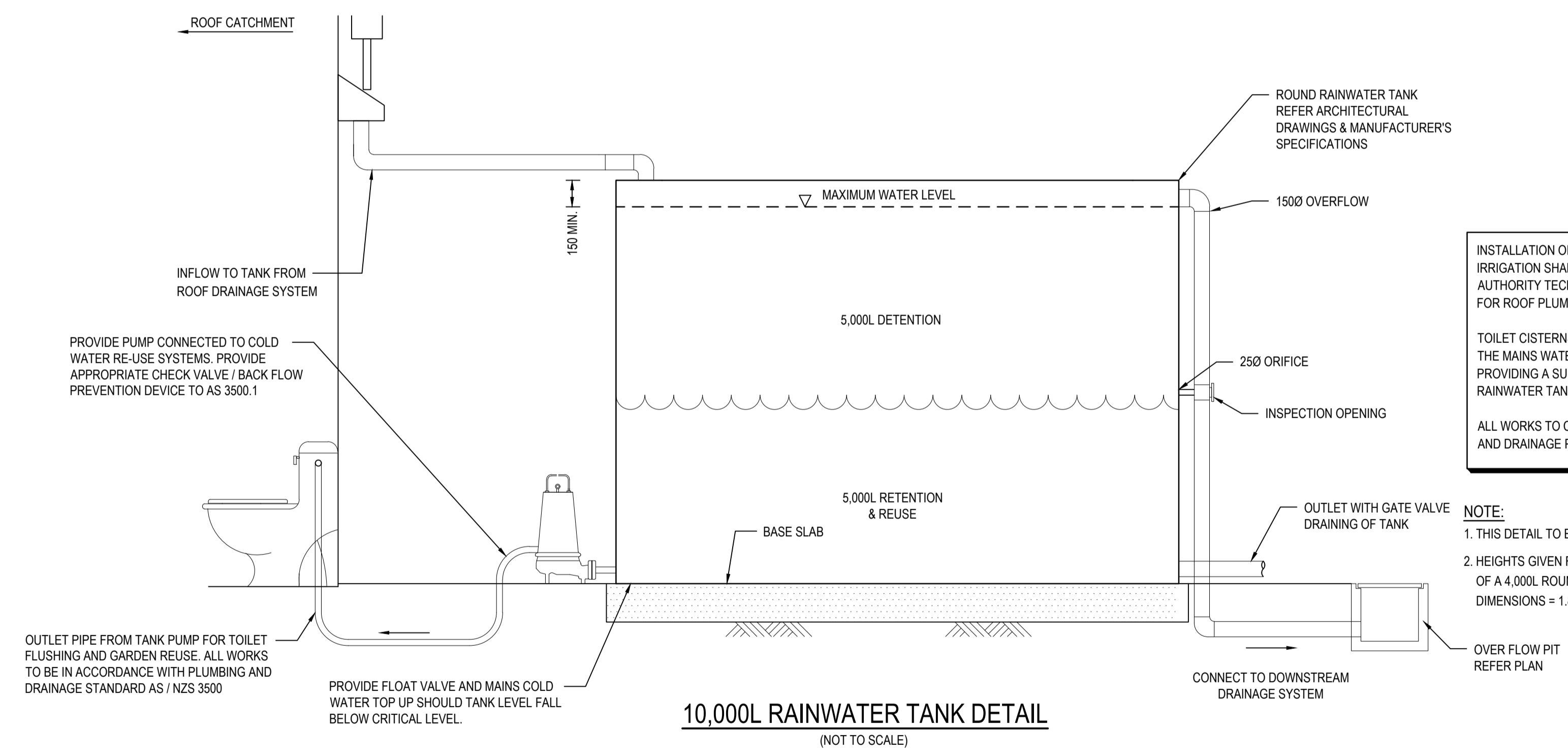


SECTION D-D



SECTION C-C

TYPICAL RAINGARDEN CROSS SECTION - RG1 DETAIL. SECT A



INSTALLATION OF RAINWATER TANKS FOR TOILET FLUSHING / IRRIGATION SHALL COMPLY WITH THE VICTORIAN BUILDING AUTHORITY TECHNICAL SOLUTION SHEET RECOMMENDATIONS FOR ROOF PLUMBING & COLD WATER INSTALLATIONS.

TOILET CISTERNS / IRRIGATION SHALL ALSO BE CONNECTED TO THE MAINS WATER SUPPLY BY WAY OF A FLOAT VALVE IN TANK PROVIDING A SUPPLEMENTARY WATER SUPPLY SHOULD THE RAINWATER TANK LEVEL BE DEPLETED.

ALL WORKS TO COMPLY WITH AS / NZS 3500 NATIONAL PLUMBING AND DRAINAGE PART 1 WATER SUPPLY ACCEPTABLE SOLUTIONS.

NOTE:
 1. THIS DETAIL TO BE READ IN CONJUNCTION WITH MANUFACTURER'S SPECIFICATION.
 2. HEIGHTS GIVEN FOR RETENTION & DETENTION VOLUMES ARE ASSUMING THE USE OF A 4,000L ROUND STAINLESS STEEL WATER TANK WITH DIMENSIONS, DIMENSIONS = 1.8m DIAMETER x 1.57m HIGH TOTAL HEIGHT.

This copied document is made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach copyright legislation

No.	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE
B	PRELIMINARY ISSUE	G.P.	A.M.S.	A.M.S.	02.04.2026
A	PRELIMINARY ISSUE	G.P.	A.M.S.	A.M.S.	10.02.2026

PRELIMINARY

structplan ABN 56 126 995 953
 302, 63 Stead Street, South Melbourne, VIC
 Tel : 61 3 9068 0701
 Email info@structplan.com.au
 www.structplan.com.au
 Structural Engineering - Design and Documentation

SCALE	AS NOTED	ORIGINAL SIZE	A1
DRAWN	G.P.	DESIGNED	A.M.S.
APPROVED	A.M.S.	DATE	APRIL 2026

CLIENT:	BRICLOK BUILDING DESIGN PTY. LTD.
PROJECT:	266-270 PORTARLINGTON ROAD, MOOLAP
TITLE:	CIVIL DETAILS SHEET 2
DRAWING No:	STR603458 - C03
REVISION:	B