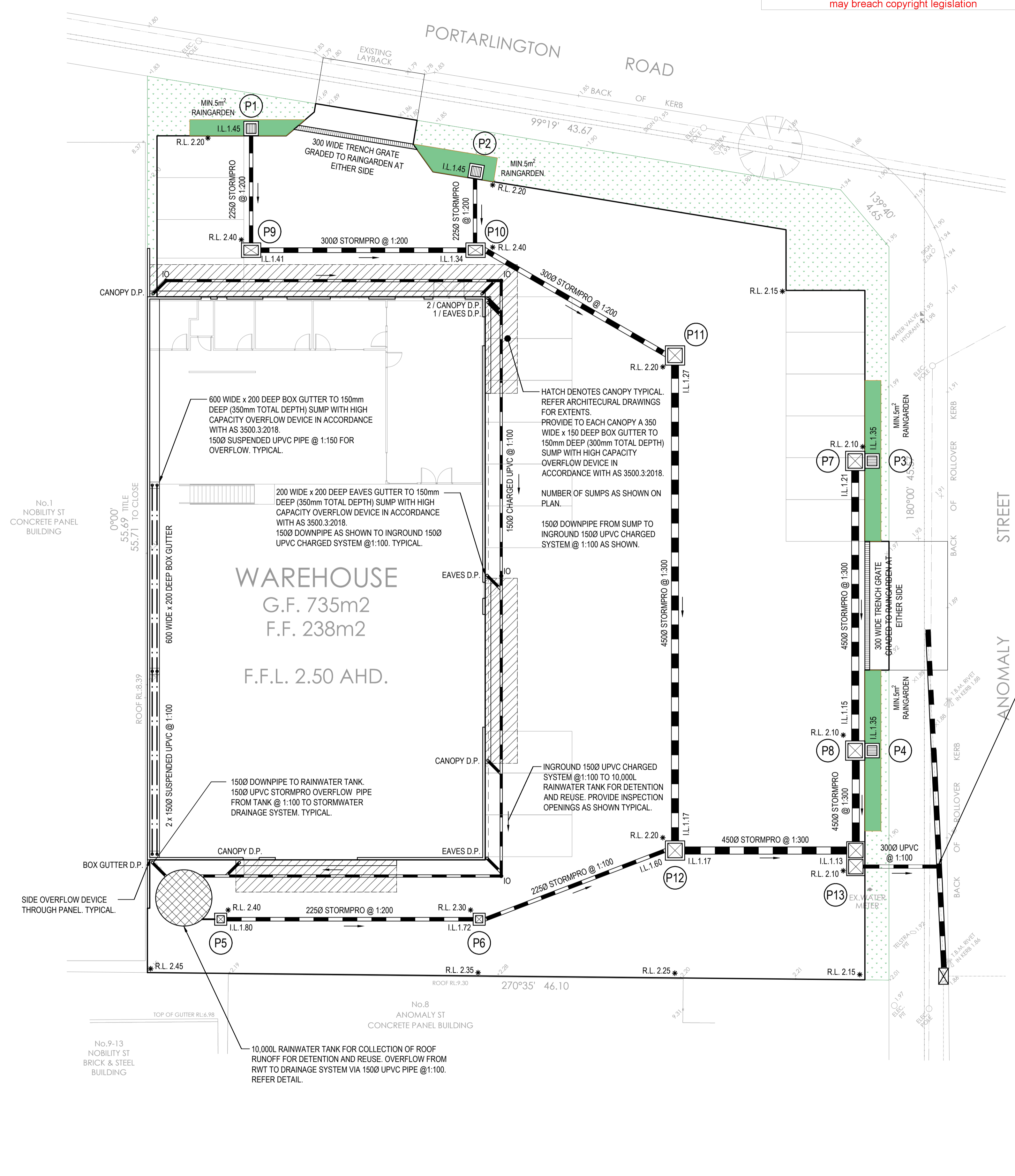


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STORMWATER PIT SCHEDULE									
PIT No.	TYPE	SIZE (W x L)	TOP R.L.	DEPTH (mm)	IL INLET	DIA INLET	IL OUTLET	DIA OUTLET	REMARKS
P1	RAINGARDEN	600 x 600	2.20	750	N/A	N/A	1.45	2250	CLASS 'B' LID
P2	RAINGARDEN	600 x 600	2.20	750	N/A	N/A	1.45	2250	CLASS 'B' LID
P3	RAINGARDEN	600 x 600	2.10	750	N/A	N/A	1.35	2250	CLASS 'B' LID
P4	RAINGARDEN	600 x 600	2.10	750	N/A	N/A	1.35	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	890	1.35	2250 FROM P3	1.21	4500	CLASS 'D' LID
P8	GATIC PIT	900 x 900	2.10	950	1.35	2250 FROM P4	1.15	4500	CLASS 'D' LID
P9	GATIC PIT	600 x 900	2.40	990	1.41	2250 FROM P1	1.41	3000	CLASS 'D' LID
					1.43	2250 FROM P2	1.34	3000 FROM P9	
P10	GATIC PIT	600 x 900	2.40	1060	1.34	3000 FROM P9	1.34	3000	CLASS 'D' LID
					1.43	2250 FROM P2	1.34	3000 FROM P9	
P11	GATIC PIT	900 x 900	2.20	930	1.27	3000 FROM P10	1.27	4500	CLASS 'D' LID
P12	GATIC PIT	900 x 900	2.20	1030	1.60	2250 FROM P6	1.17	4500	CLASS 'D' LID
					1.17	4500 FROM P11	1.17	4500 FROM P11	
P13	ORIFICE PIT	900 x 1950	2.10	970	1.13	4500 FROM P8	1.13	3000 TO LPOD	REFER DETAIL, 950 ORIFICE & 10mm PLATE
					1.13	4500 FROM P12	1.13	3000 TO LPOD	

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.

SITE DETAILS	
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

DETENTION VOLUME	
P13 TOP OF BAFFLE WALL R.L.	1.90
P13 BAFFLE WALL HEIGHT	770mm
P13 ORIFICE DIAMETER	950
P13 ORIFICE DISCHARGE RATE	16.01 L/s
2 / 600 x 900 PIT DETENTION	0.56 m ³
5 / 900 x 900 PIT DETENTION	2.87 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	20.2 m ³

- 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.

PROPOSED LPOD CONNECTION MIN. I.L.T.B.C. INTERNAL STORMWATER DRAINAGE SYSTEM TO BE CONNECTED TO THE EXISTING 3000 R.C.P. STORMWATER DRAIN TO THE FRONT OF THE PROPERTY ON ANOMALY STREET, VIA A NEW 3000 PROPERTY DRAIN CONNECTION. REFER CITY OF GREATER GEELONG LPOD REPORT DATED 13/01/2026. APP. NO. : 3387-2025-SRF1

INTERNAL DESIGNED STORMWATER SYSTEM REQUIRES A MIN. I.L. OF 1.13 AT THE P13 ORIFICE PIT.

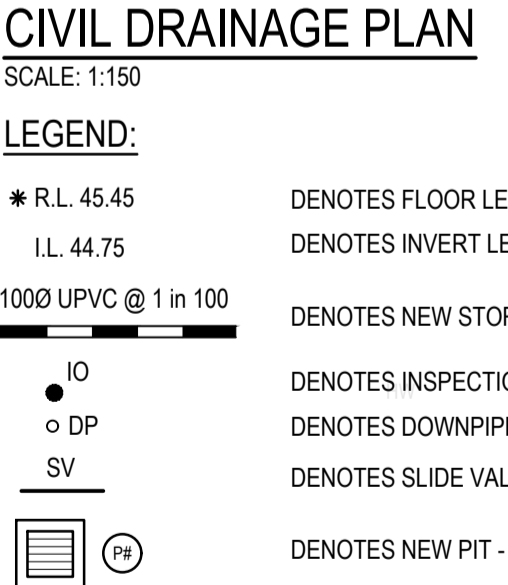
NEW LEGAL POINT OF DISCHARGE SADDLE CONNECTION IS TO BE CONSTRUCTED AS PER COUNCIL STANDARD DRAWINGS AND DETAILS.

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.)



NOTE:
 THIS CIVIL DRAINAGE LAYOUT IS INDICATIVE ONLY. FOR ALL FLOOR LEVELS, STEPS, SETDOWN AND WALL THICKNESS, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, EXTENT AND DETAIL.

- 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.

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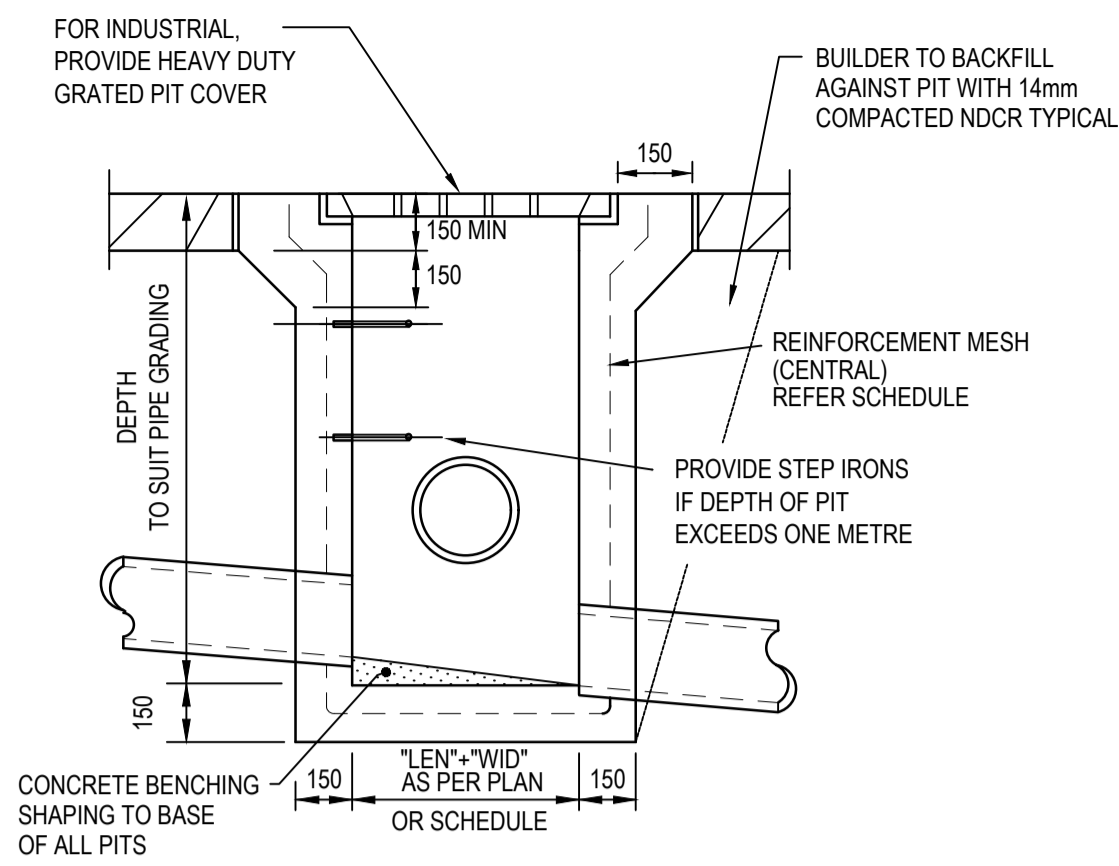
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Structural Engineering - Design and Documentation

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DRAWN	G.P.	DESIGNED	A.M.S.	PROJECT:	266-270 PORTARLINGTON ROAD, MOOLAP
APPROVED	A.M.S.	DATE	FEBRUARY 2026	TITLE:	CIVIL DRAINAGE PLAN
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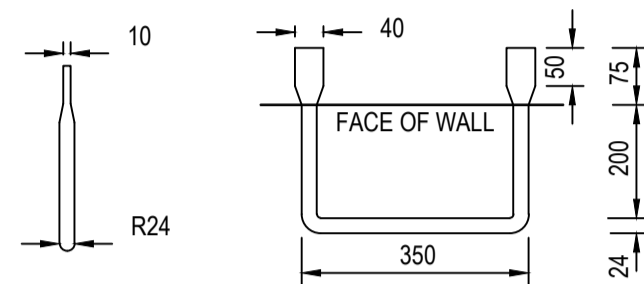


TYPICAL PIT DETAILS - SOLID OR GRATED COVER

NOTE: REFER DRAINAGE PIT REINFORCEMENT SCHEDULE FOR REINFORCEMENT DETAIL

DEPTH OF INVERT TO OUTLET (mm)	MINIMUM INTERNAL DIMENSION (mm)			REINFORCEMENT
	WIDTH	LENGTH		
LESS THAN 600	450	450		SL 72
>600 & < 900	600	600		SL 92
>900 & < 1200	600	900		SL 102
>1200*	900	900		SL 918

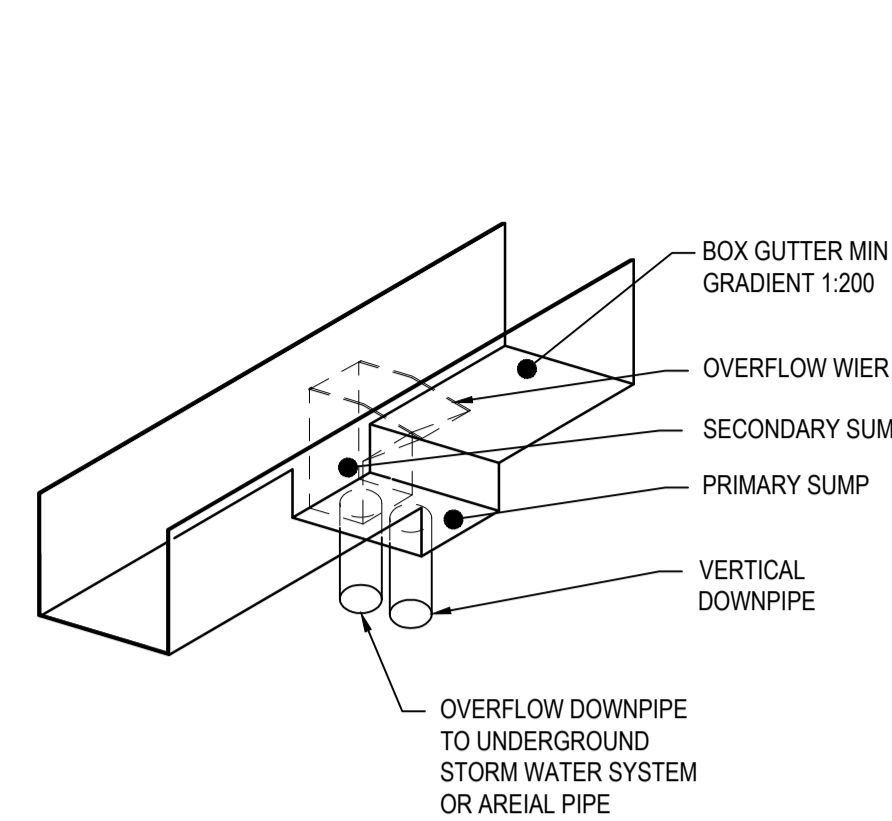
- NOTE:
- * STEP IRONS REQUIRED
 - ALL DIMENSIONS ARE IN ACCORDANCE WITH AS/NZS: 3500.3 2018 - PART 3 STORMWATER DRAINAGE SYSTEM
 - HEAVY DUTY COVERS TO BE USED FOR TRAFFICABLE LOADS IN ACCORDANCE WITH AS 3996 CLASS D - 210 kN OR APPROVED EQUIVALENT FOR INDUSTRIAL PROJECTS
 - CONCRETE STRENGTH $F_c = \text{MIN. } 25 \text{ MPa}$ AT 28 DAYS.
 - THIS DETAIL TO BE READ IN CONJUNCTION WITH LOCAL COUNCIL'S STANDARD DRAWINGS.



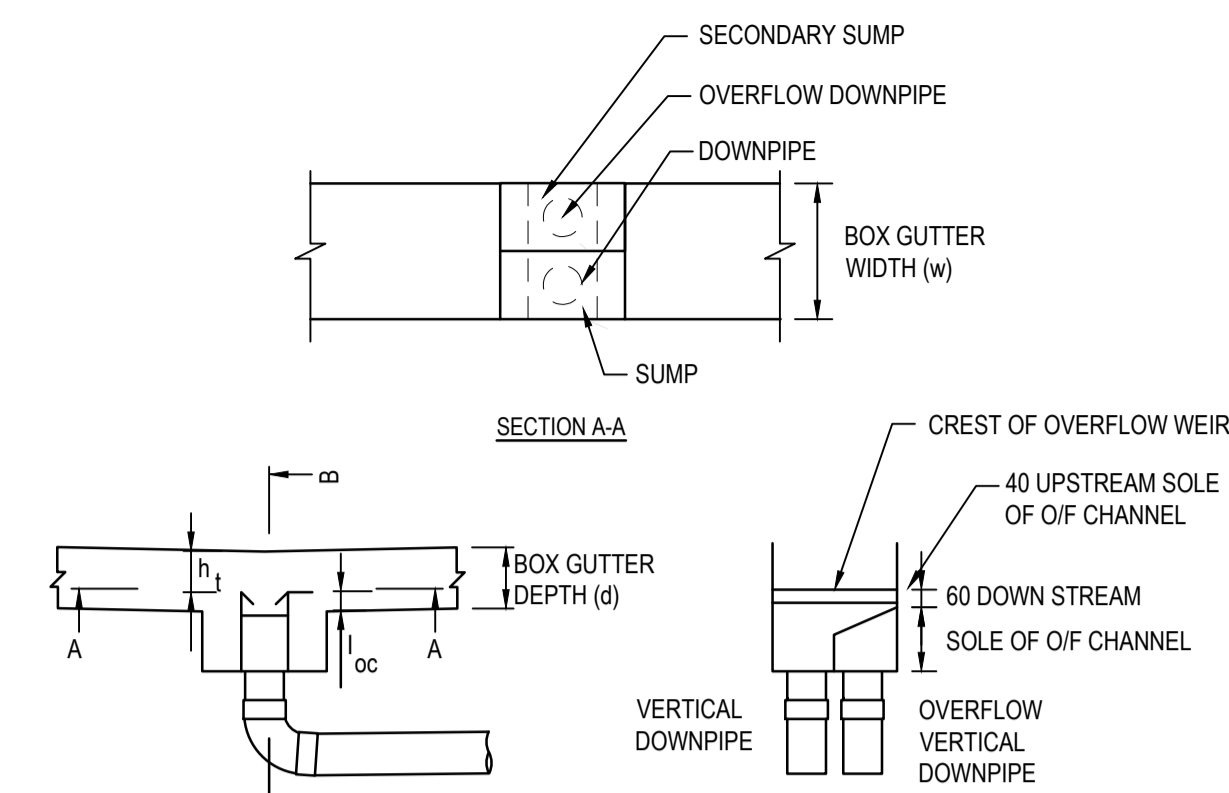
- NOTE:
- FIRST RUNG 150mm DOWN FROM TOP, THEN SPACED AT 300 CENTRES
 - STEP IRON MATERIAL: 24mm DIAMETER MILD STEEL, HEAVY GALVANISED
 - STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 1m DEPTH
 - THIS DETAIL TO BE READ IN CONJUNCTION WITH LOCAL COUNCIL'S STANDARD DRAWING.

STEP IRONS FOR DRAINAGE PITS

SCALE 1:10



SUMP WITH HIGH CAPACITY

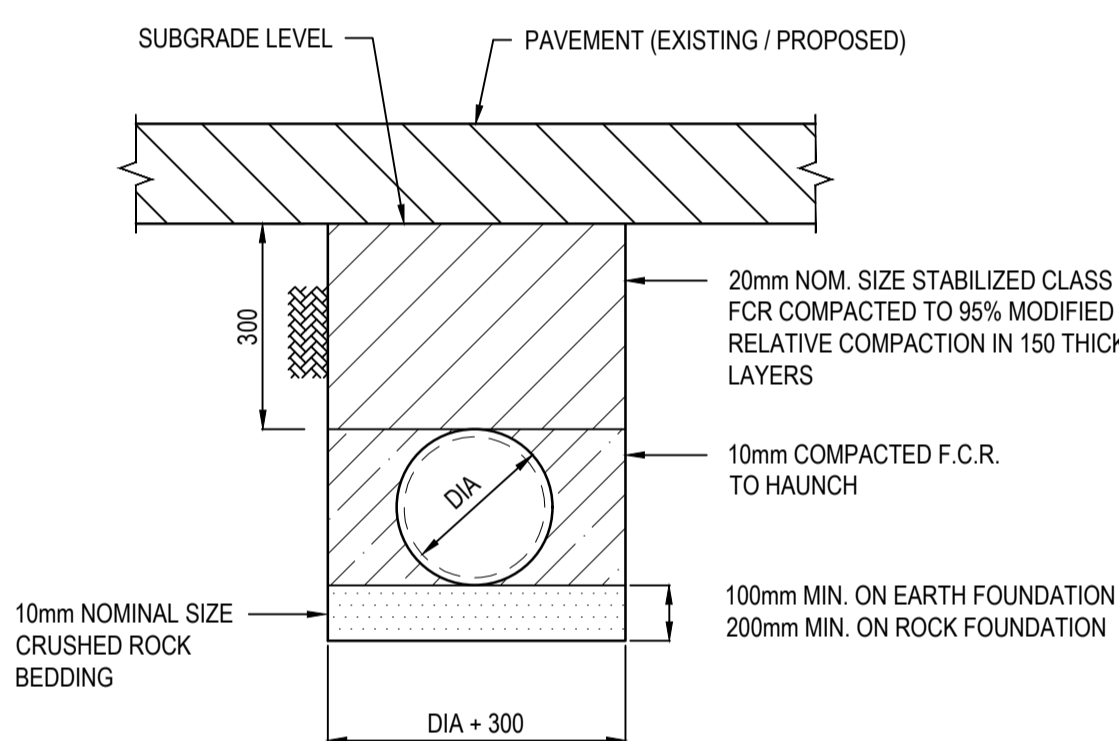


SIDE VIEW

SECTION B-B

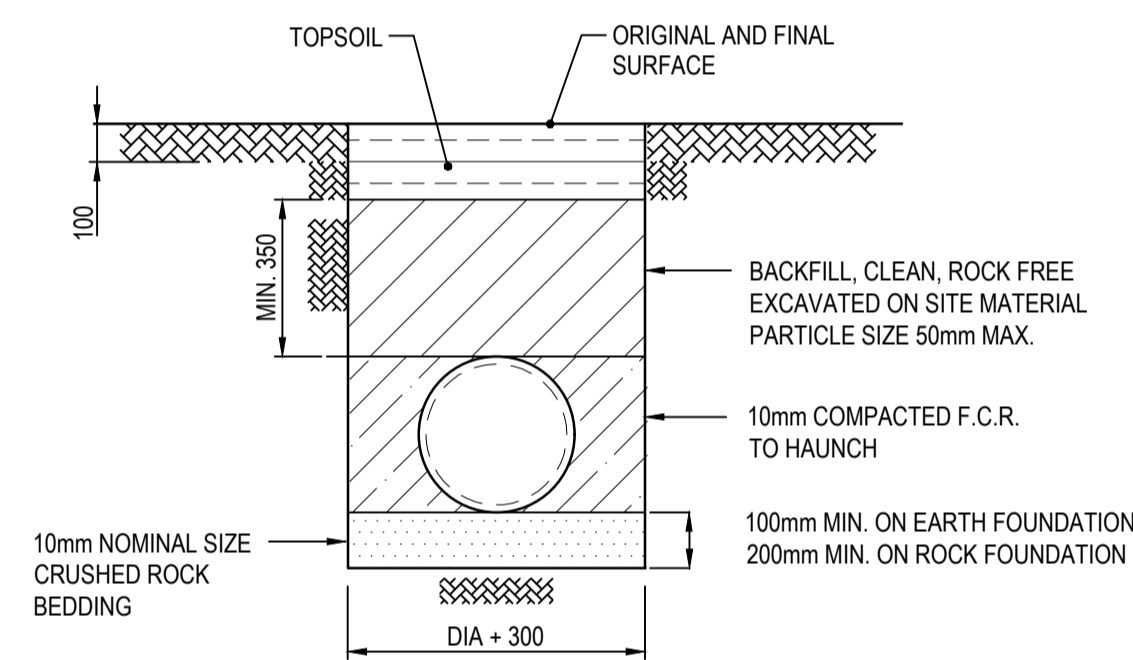
OVERFLOW DEVICE FOR INTERNAL DOWNPIPE DETAIL

- NOTE:
- THIS DETAIL TO BE READ IN CONJUNCTION WITH AS 3500.3 FIGURE 3.7.3 OVERFLOW DEVICES - BOX GUTTER.
 - WHERE DESIRED, HIGH CAPACITY OVERFLOW DEVICE MAY BE PERFORATED TO FLUSH THE OVERFLOW DOWNPIPE.
 - THE NORMAL VERTICAL DOWNPIPE MAY BE MOVED LONGITUDINALLY TO CLEAR THE OVERFLOW CHANNEL TO ENABLE BETTER INSPECTION AND MAINTENANCE ACCESS.



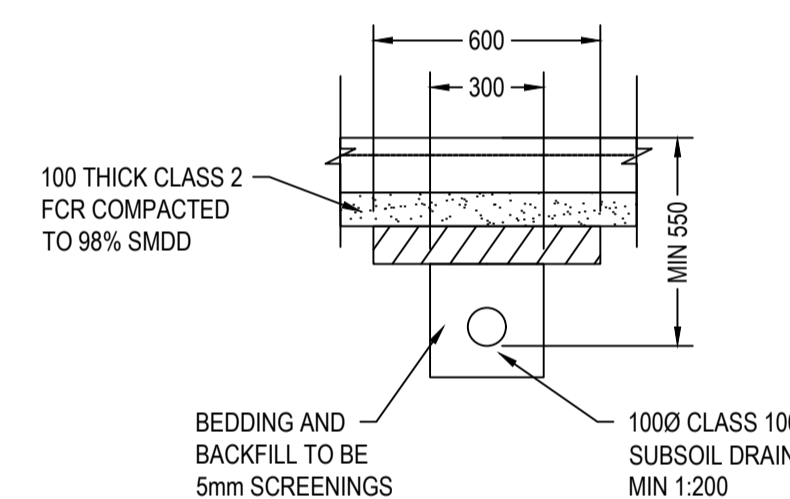
PIPE TRENCH UNDER PAVEMENT

(NOT TO SCALE)



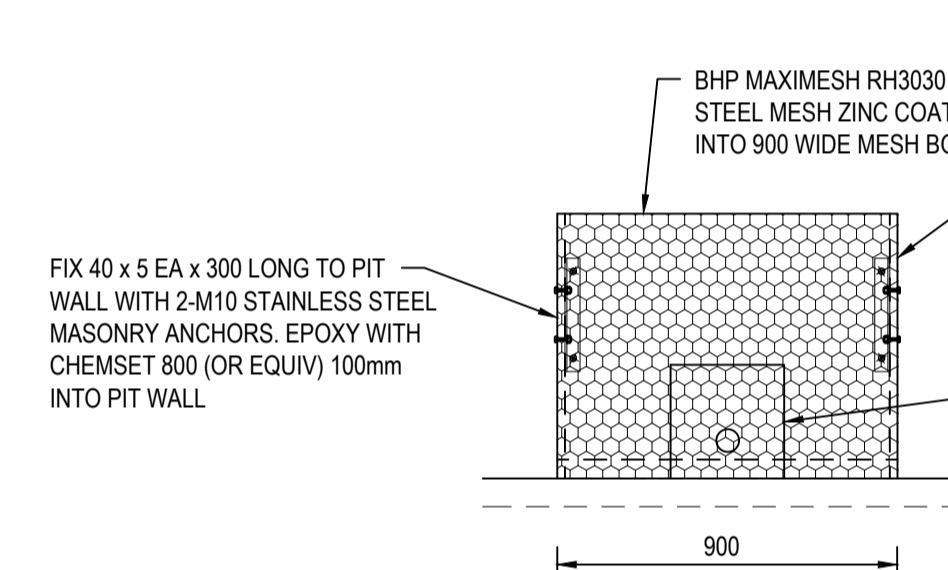
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PIPE TRENCH DETAIL

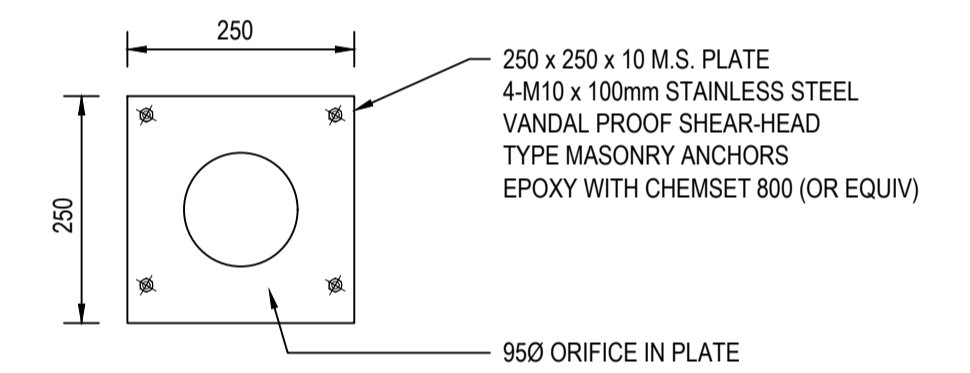


TYPICAL SUB-SOIL DRAIN DETAIL

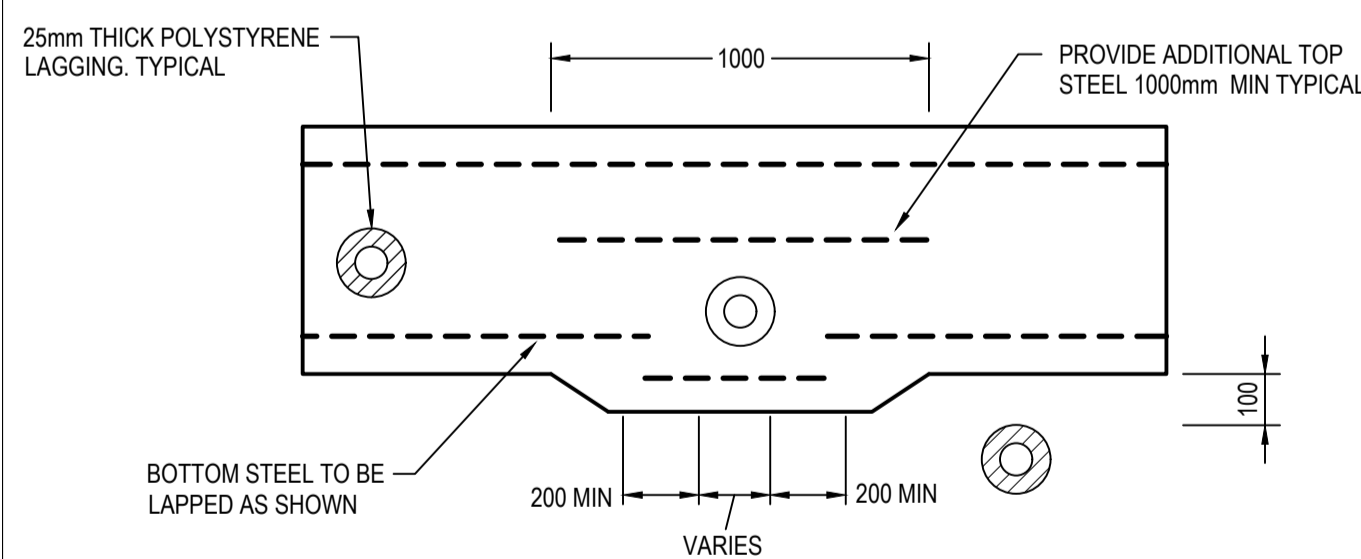
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MESH SCREEN BOX ELEVATION

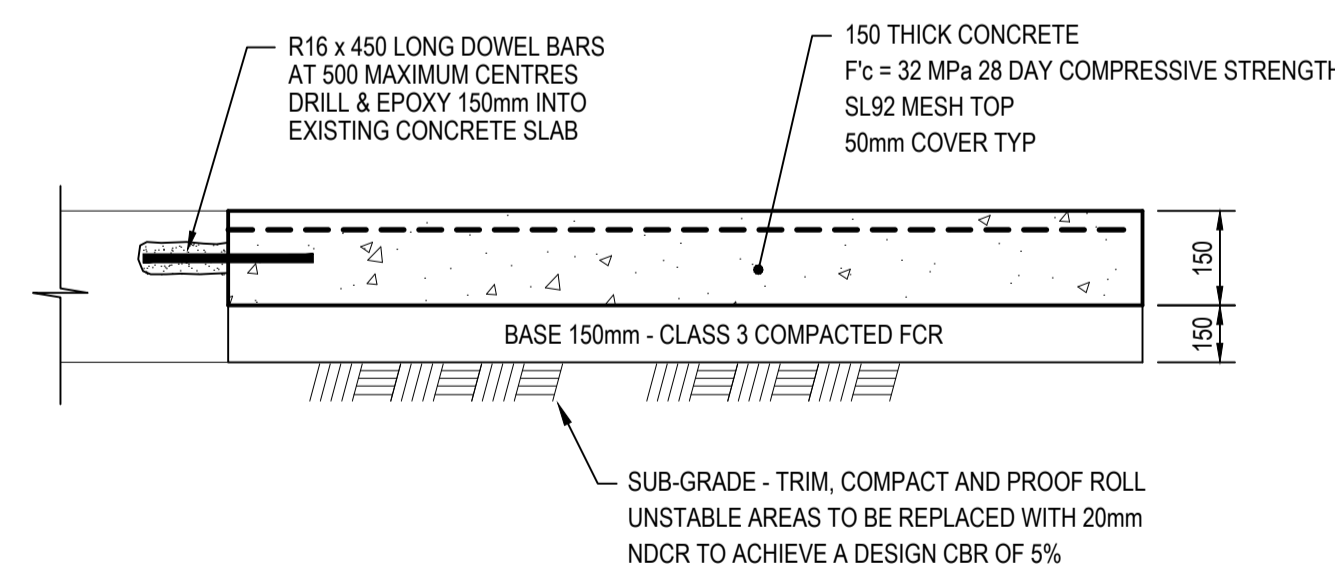


ORIFICE PLATE DETAIL



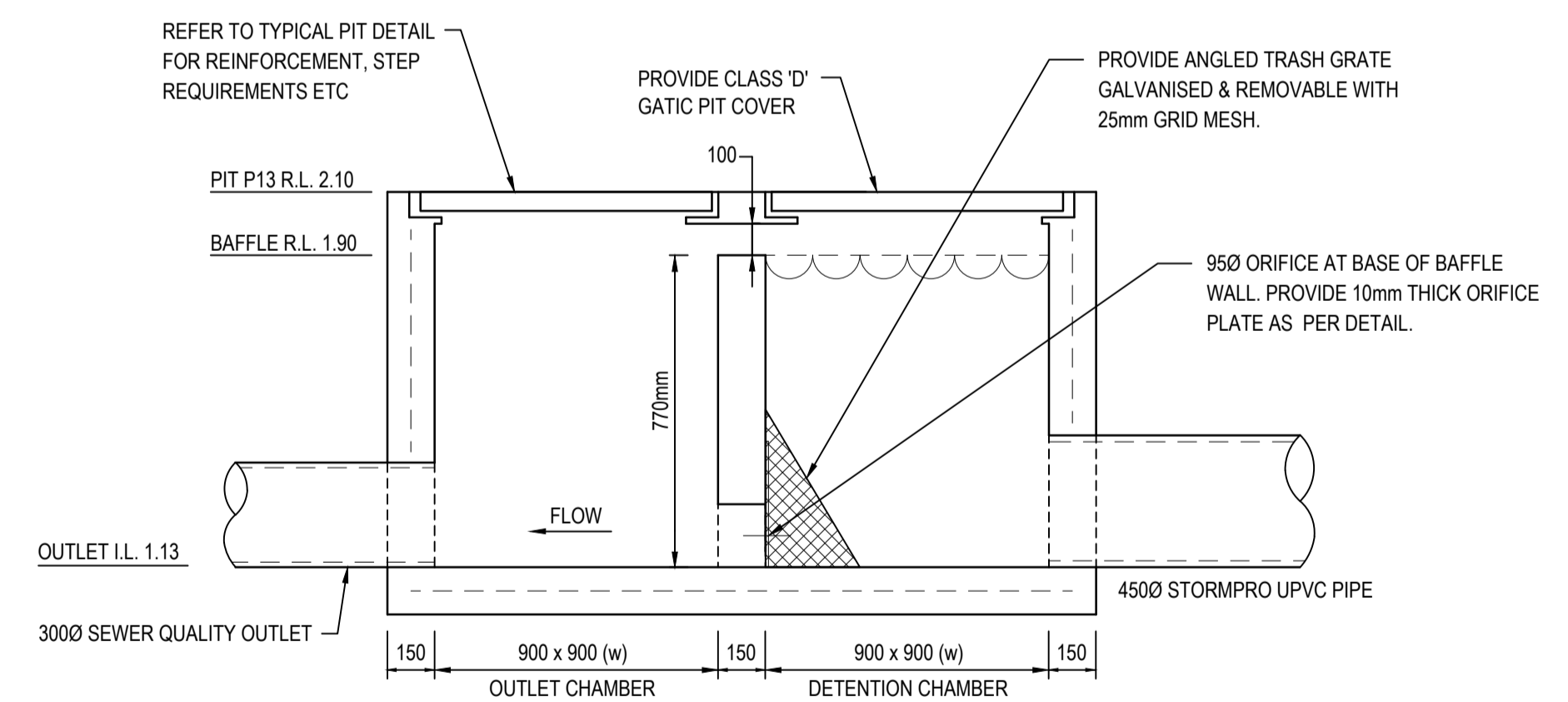
TYPICAL PIPE PENETRATION DETAIL

(NOT TO SCALE)



CONCRETE DRIVEWAY PAVEMENT DETAIL

- NOTE:
- THIS DETAIL TO BE READ IN CONJUNCTION WITH LOCAL COUNCIL'S STANDARD DRAWINGS



SECTION

DETENTION PIT DETAIL - P13

- NOTES:
- NO REINFORCEMENT REQUIRED IN PIT IF DEPTH IS LESS THAN ONE METRE.
 - PIT WALLS AND BASE TO BE MIN. 150mm THICK WITH $F_c = 32 \text{ MPa}$

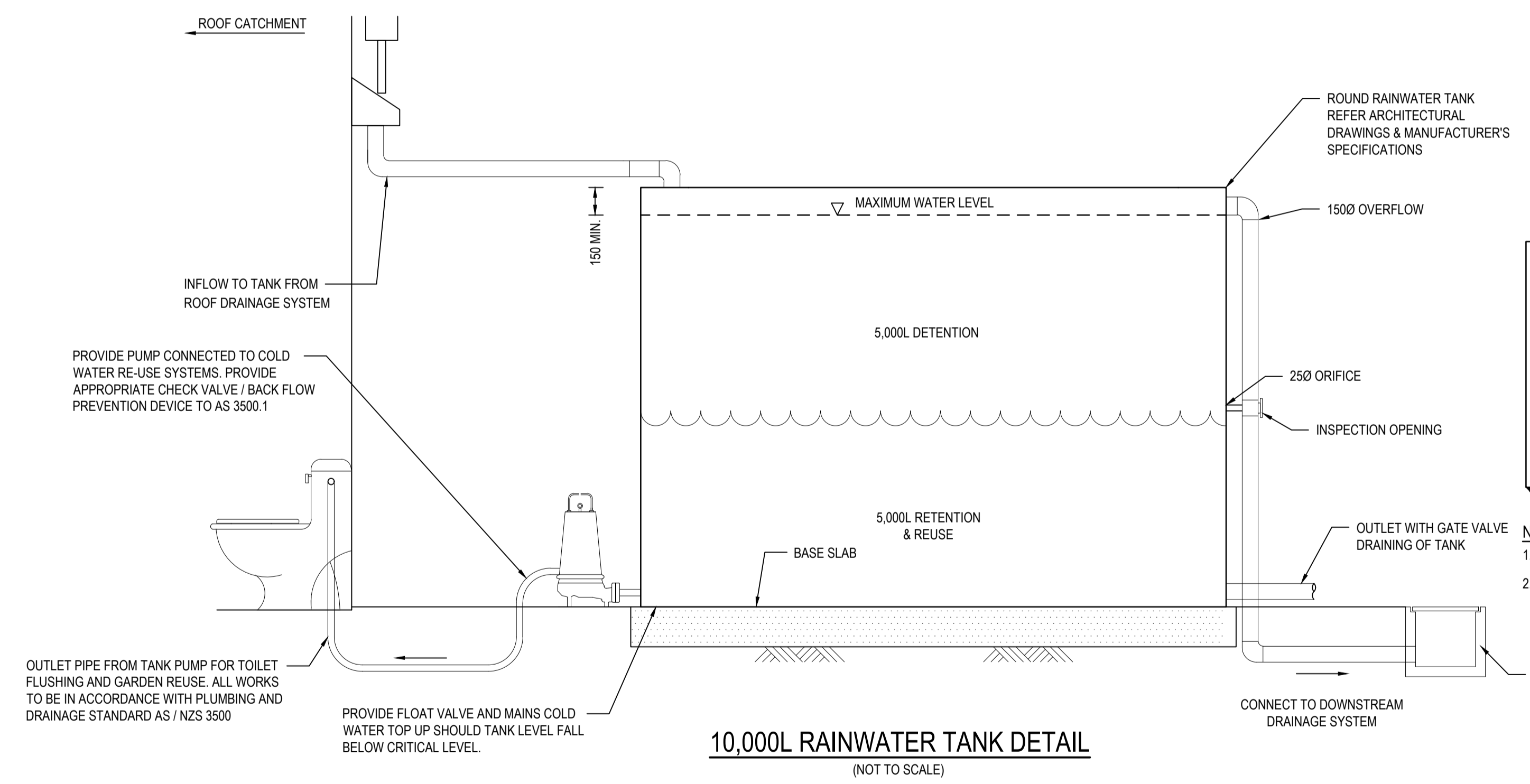
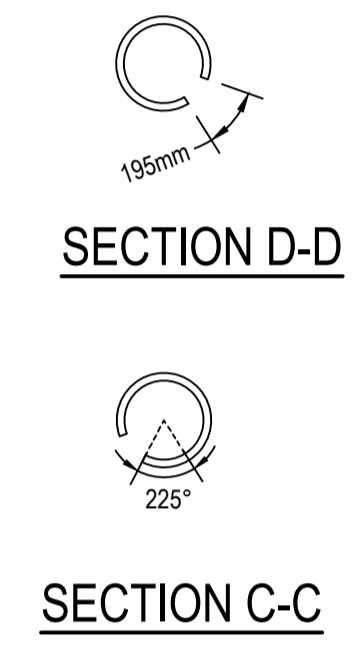
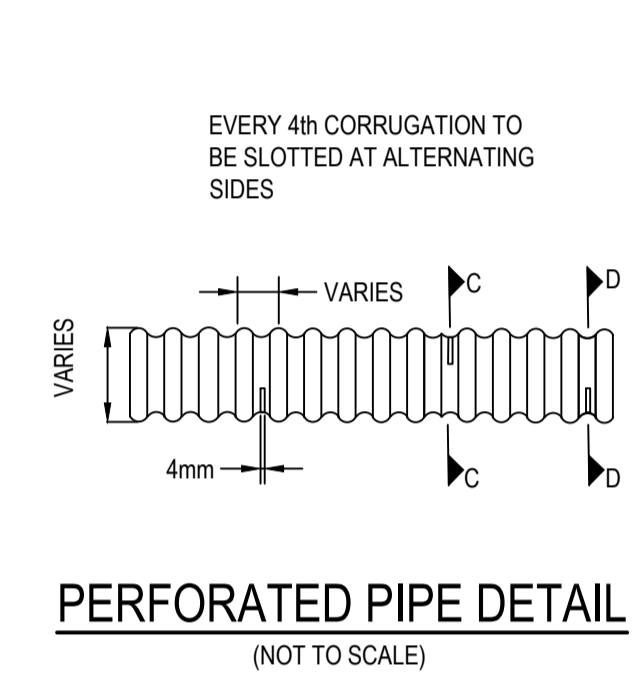
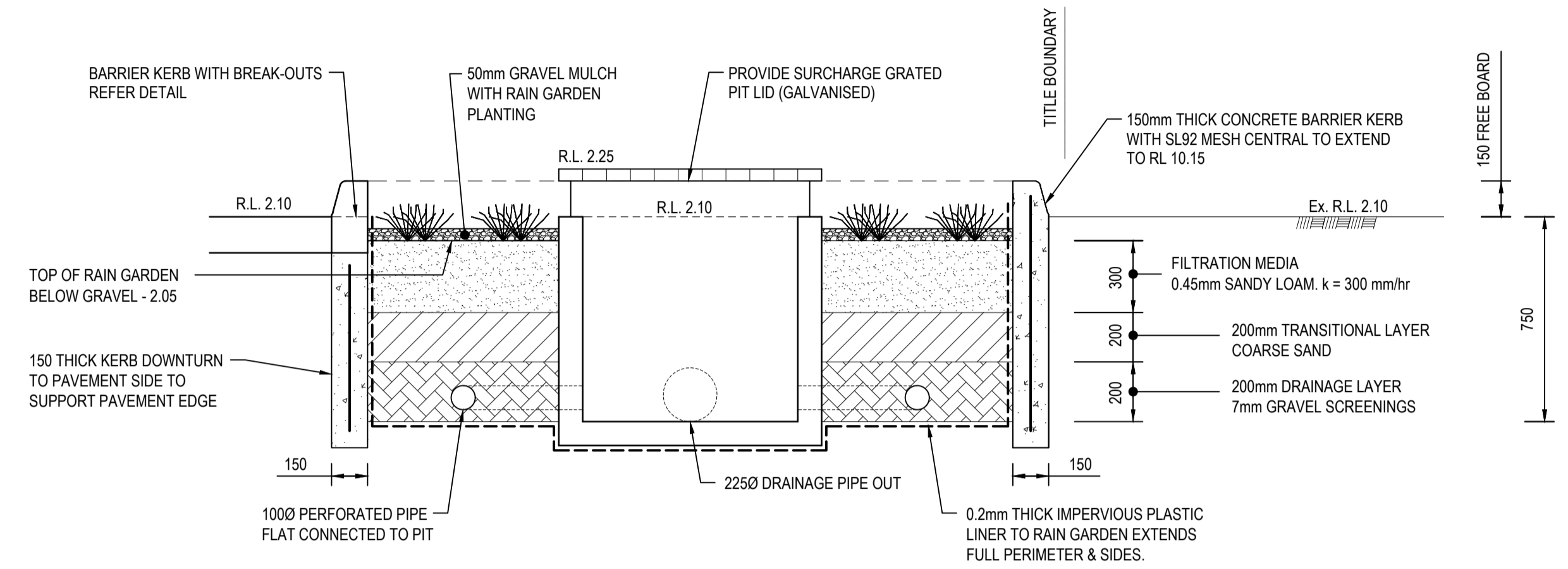
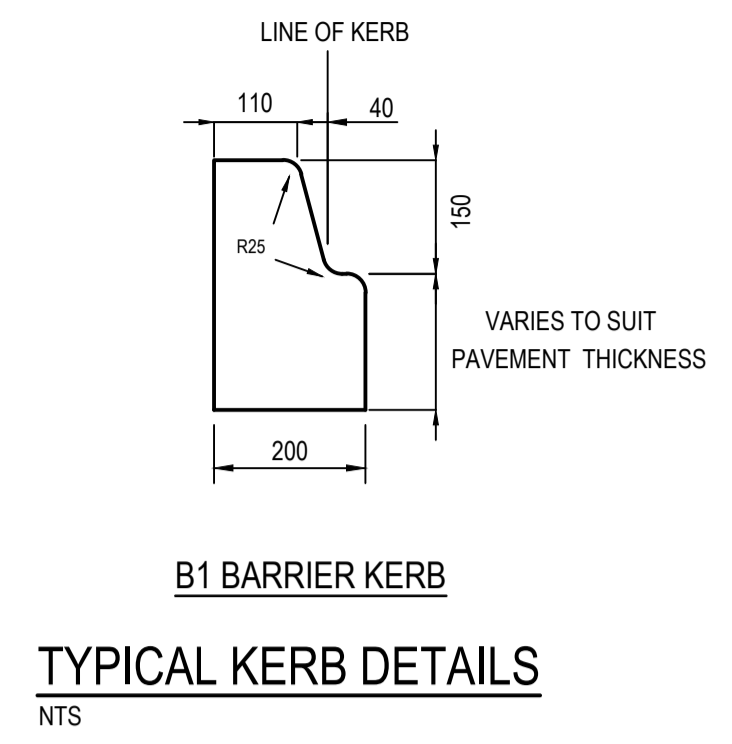
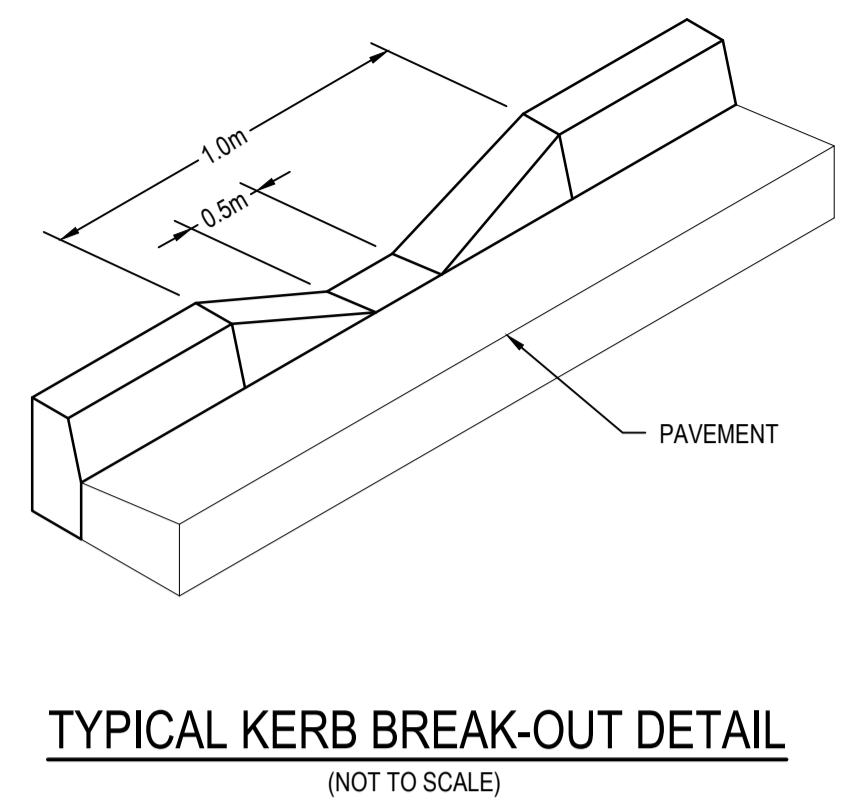
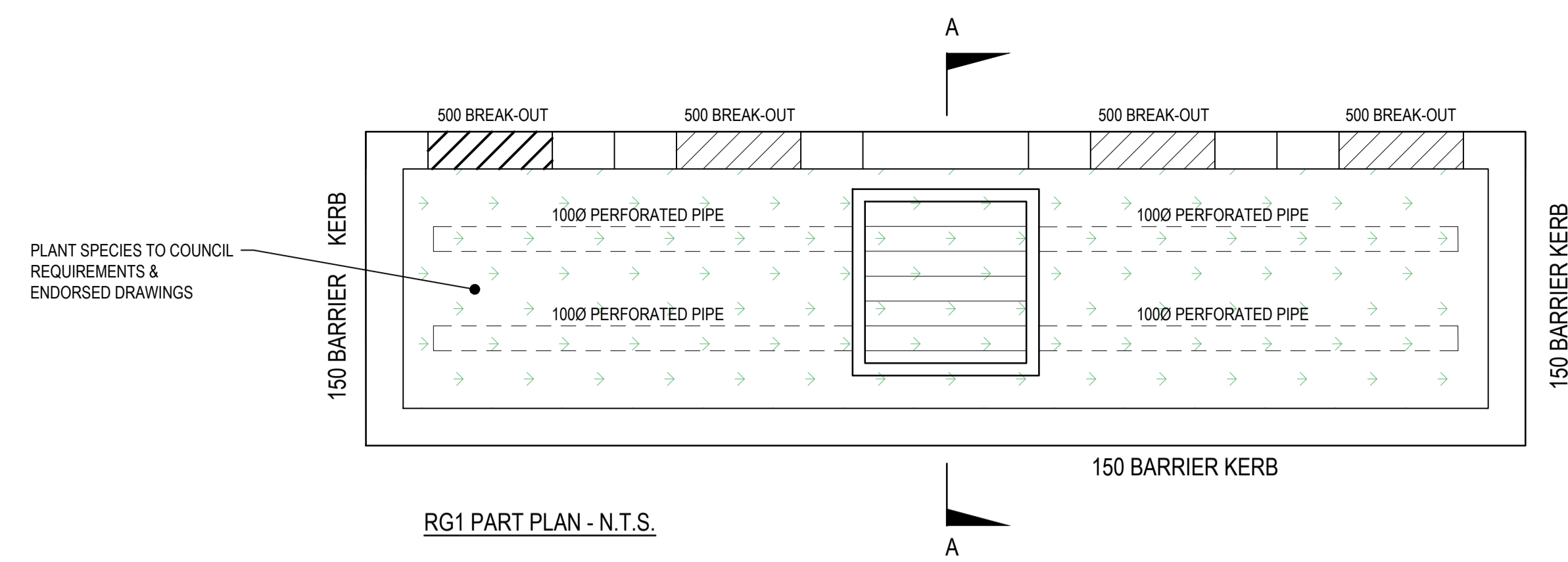
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INSTALLATION OF RAINWATER TANKS FOR TOILET FLUSHING / IRRIGATION SHALL COMPLY WITH THE VICTORIAN BUILDING AUTHORITY TECHNICAL SOLUTION SHEET RECOMMENDATIONS FOR ROOF PLUMBING & COLD WATER INSTALLATIONS.

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.

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