LEGEND

—O— ROOFWATER INSPECTION MANHOLE AS PER BSD-8112

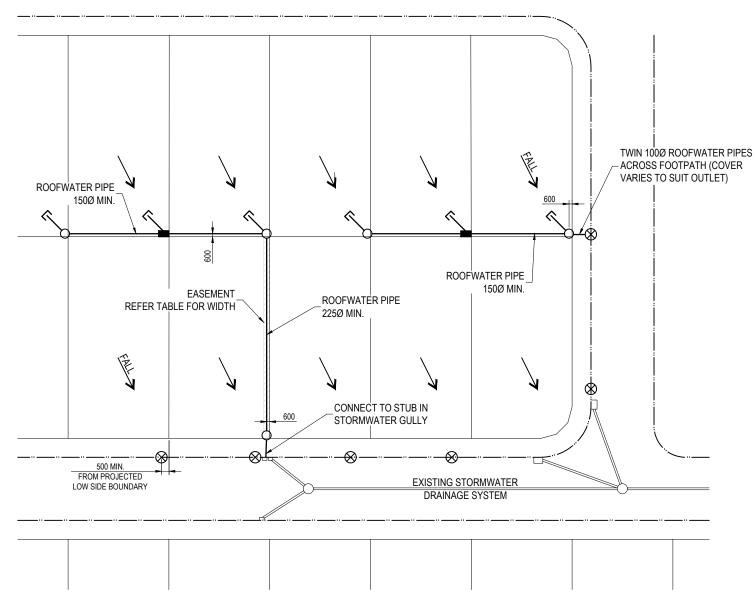


ROOFWATER INSPECTION OPENING WITH 100mm DIA STUB AND END CAP



uPVC Y JUNCTION WITH 100mm DIA STUB AND END CAP

KERB ADAPTOR TO BSD-8114



TYPICAL PLAN ROOFWATER DRAINAGE SYSTEM

DESIGN CRITERIA FOR REAR OF ALLOTMENT DRAINAGE SYSTEM

EASEMENT WIDTH (m)	NOMINAL PIPE DIAMETER	MINIMUM PIPE SLOPE (%)	FLOW (L/s) - NOTE 4								
			PIPE GRADIENT % - NOTE 6								
	(mm)	(70)	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	
NOT REQUIRED - NOTE 3	150	1.0	N/A	18	23	26	30	33	38	42	
0.9	225	0.5	38	56	67	78	87	96	110	125	
0.9	300	0.5	84	120	146	170	190	210	N/A	N/A	

NOTES:

- DESIGN FLOWS CALCULATED BASED ON MANNING'S 'n' OF 0.011. PIPE SIZED ASSUMING A DISCHARGE OF 15 L/s FROM EACH ALLOTMENT - BASED ON ROOF AREAS OF 250m² AND ARI OF 20 YEARS FOR S.E. QUEENSLAND. ALL PIPES SHALL HAVE A MINIMUM DIAMETER OF 150mm, EXCEPT ACROSS FOOTPATH.
- WHERE THE PIPE GRADIENT EXCEEDS 5%, UNDERTAKE A MORE DETAILED HYDRAULIC ANALYSIS INCLUDING THE ASSESSMENT OF STRUCTURE LOSSES, WHERE APPROPRIATE.
- AN EASEMENT IN FAVOUR OF COUNCIL IS REQUIRED WHEN THE ROOFWATER LINE IS DESIGNED TO SERVICE MORE THAN 2 ALLOTMENTS, IRRESPECTIVE OF PIPE SIZE.
- DISCHARGE TO KERB AND CHANNEL MUST BE LIMITED TO 30L/s.
- PROVIDE MINIMUM 450 COVER TO PIPES EXCEPT WHERE REDUCED COVER IS NECESSARY TO EFFECT DISCHARGE TO KERB AND CHANNEL. PIPE TYPES AND CLASSES TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - UPVC PIPE (MINIMUM SEWER CLASS SN8) MANUFACTURED IN ACCORDANCE WITH AS1260;
 - PVC PIPES AND FITTINGS FOR DRAIN, WASTE AND VENT APPLICATIONS. JOINT TYPE, SOLVENT WELDED;
- STEEL REINFORCED CONCRETE PIPE MINIMUM CLASS 2, MANUFACTURED TO AS4058. JOINT TYPE, RUBBER RING;
- FIBRE REINFORCED CONCRETE PIPE MINIMUM CLASS 1, MANUFACTURED TO AS4139. JOINT TYPE, RUBBER RING.
- MINIMUM PIPE GRADES TO COMPLY GENERALLY WITH AS3500 NATIONAL PLUMBING AND DRAINAGE CODE PART 3 STORMWATER DRAINAGE:
 - 1.0% GRADE FOR PIPES ≤150Ø;
 - 0.5% GRADE FOR PIPES > 150Ø BUT < 375Ø;
 - 0.5-0.3% GRADE FOR PIPES 375Ø.
- 7. PROVIDE ROOFWATER INSPECTION MANHOLES:
 - AT MAXIMUM 100m SPACING;
 - AT ALL CHANGES IN PIPE SIZES;
 - AT ALL DIRECTION CHANGES EXCEEDING 15°;
 - AT LINE TERMINATION.
- PROVIDE "AS CONSTRUCTED" INFORMATION FOR:
 - OFFSETS OF THE MAIN LINE TO THE PROPERTY BOUNDARY;
 - THE LOCATIONS OF INSPECTION MANHOLES AND Y JUNCTIONS MEASURED FROM THE PROPERTY BOUNDARY.
- 9. DIMENSIONS IN MILLMETRES (U.N.O.).

ISSUE	AMENDMENT		CHK'D DATE	APPR'D DATE	PRINCIPLE ASSET OFFICER ROADS & DRAINAGE	ASSOCIATED PLANS				L
Α	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	B. HANSEN SIGNATURE ON ORIGINAL DATED 27/6/01	DRAWING FILENAME	BSD-8111 (C) Roofwater drainage for low density residential subdivisions.du		}	
В	Note 5 Amended - SN6 changed to SN8	FEB '16	JUL '16	JUL '16	DESIGN APPROVED		M.STEER	DATE	MAY '01	┛
С	Min. Pipe sizes Added to Detail, Easement Width Updated, Notes 1, 2, 3 $\&$ 4 Revised	NOV '18	APR '19	APR '19	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	M CTEED	D. T.	1411/4/04	1
					DATED 29/6/01	DRAWN	CITY DESIGN	DATE	APR '01	1
					DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL	DESIGN	Std Dwgs WG	DATE	APR '01	



BRISBANE CITY COUNCIL STANDARD DRAWING

ROOFWATER DRAINAGE FOR LOW DENSITY **RESIDENTIAL SUBDIVISIONS**

''	DAND DI	VALTIAO					
	SCALE NOT TO	SCALE					
	DWG No.						
	BSD-8111						
	ORIGINAL SIZE	REVISION					
	Α3	С					