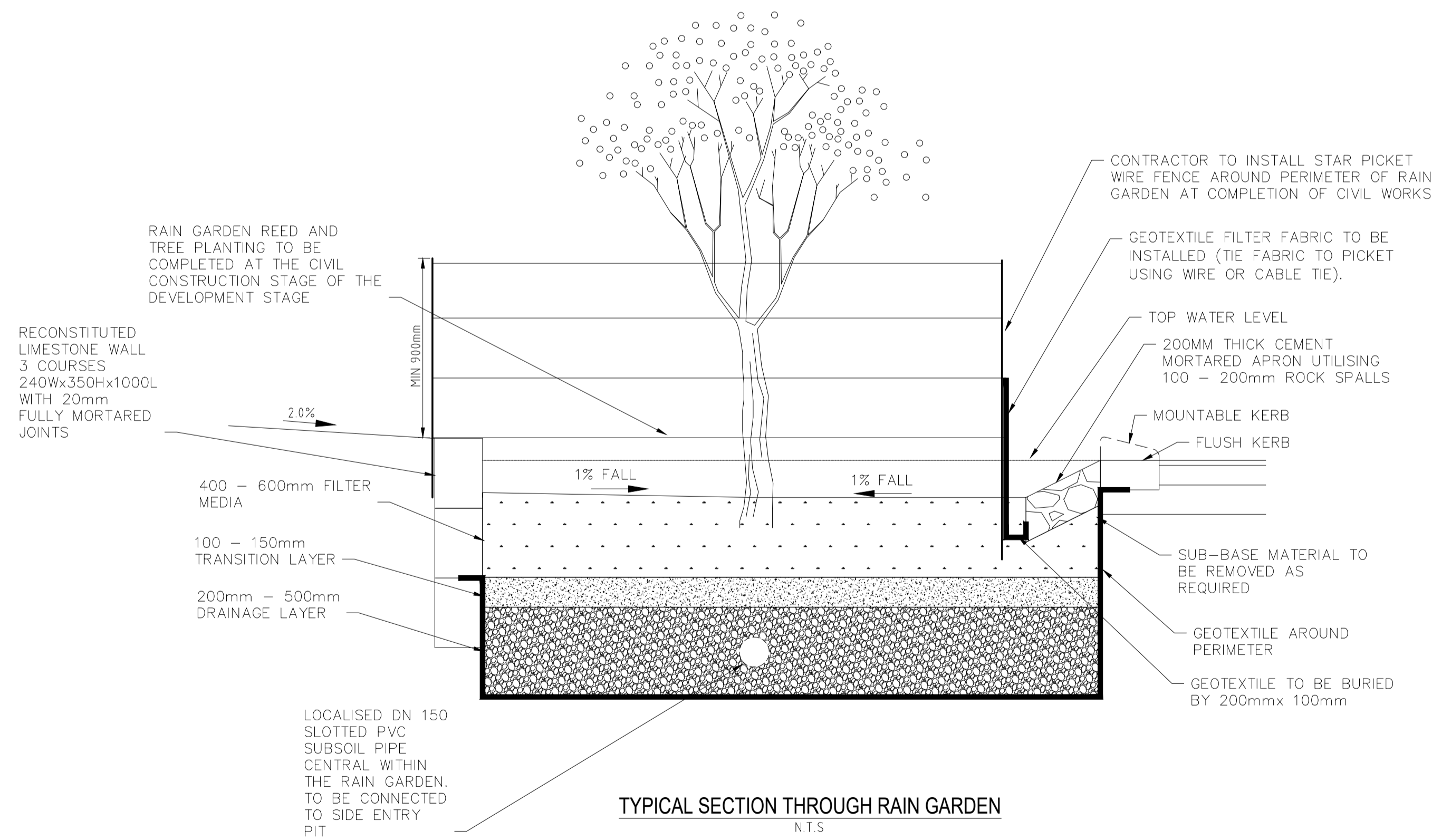


TYPICAL RAIN GARDEN LAYOUT
N.T.S



NOTES :

1. FILTER MEDIA TO BE EITHER AN ENGINEERED MATERIAL (WASHED WELL GRADED SAND. ALL PARTICLE SIZE CLASSES SHOULD BE REPRESENTED ACROSS ALL SIEVE SIZES FROM 0.05mm TO 3.4MM) OR NATURALLY OCCURRING SAND.
2. FILTER MEDIA TO HAVE A DESIGNED SATURATED HYDRAULIC CONDUCTIVITY BETWEEN 100mm/hr AND 300mm/hr, WITH A SAFETY MARGIN (ASSUMING AFTER ESTABLISHMENT AND MAINTENANCE PERIOD OF 2 YEARS) A FINAL HYDRAULIC CONDUCTIVITY OF BETWEEN 33% AND 50% OF THE DESIGN VALUE.
3. TRANSITION LAYER TO BE CLEAN WELL GRADED SAND (A2F FILTER SAND 0 - 95mm OR EQUIVALENT) WITH HYDRAULIC CONDUCTIVITY HIGHER THAN THAT OF THE FILTER MEDIA.
4. 15% OF SAND PARTICLES OF THE TRANSITION LAYER MUST BRIDGE WITH THE LARGEST 15% OF THE FILTER MEDIA PARTICLES
5. DRAINAGE LAYER TO BE CLEAN FINE AGGREGATE (2-7mm WASHED SCREENINGS) WITH HYDRAULIC CONDUCTIVITY HIGHER THAN THAT OF THE TRANSITION LAYER.
6. SUBSOIL PIPE MUST HAVE PERFORATIONS SMALLER THAN THE DRAINAGE LAYER PARTICLE SIZE OR BE WRAPPED IN FILTER CLOTH
7. RAIN GARDENS SHOULD IDEALLY BE LOCATED ON SIDE BOUNDARIES AND SIDE OF ROAD WITHOUT PATHS. IF A PATH IS PRESENT, A MINIMUM OF 1 METER OF FLAT LANDING IS REQUIRED BETWEEN THE EDGE OF THE PATH AND THE DROP OF THE RAIN GARDEN

A:\Engineering\Standard Details\DWG\STD-D11 - RAIN GARDEN.dwg

Amendments		Scale	Date		By		Approved	
B	03/01/25	AS SHOWN	BC	VB				
A	30/11/23	N/A	BV	NS				
No	Date	Revision	By	Approved				



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Drawn	Date	Signat	Project
BC	30/11/23		
Designat	Date	Signat	
BV	30/11/23		
Checked	Date	Signat	
VB	30/11/23		
Manager Engineering Services.			

SHIRE OF SERPENTINE JARRAHDALE
STANDARD DRAWINGS

DRAINAGE - RAIN GARDEN

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Revision No.	B
DWG No.	STD-D11