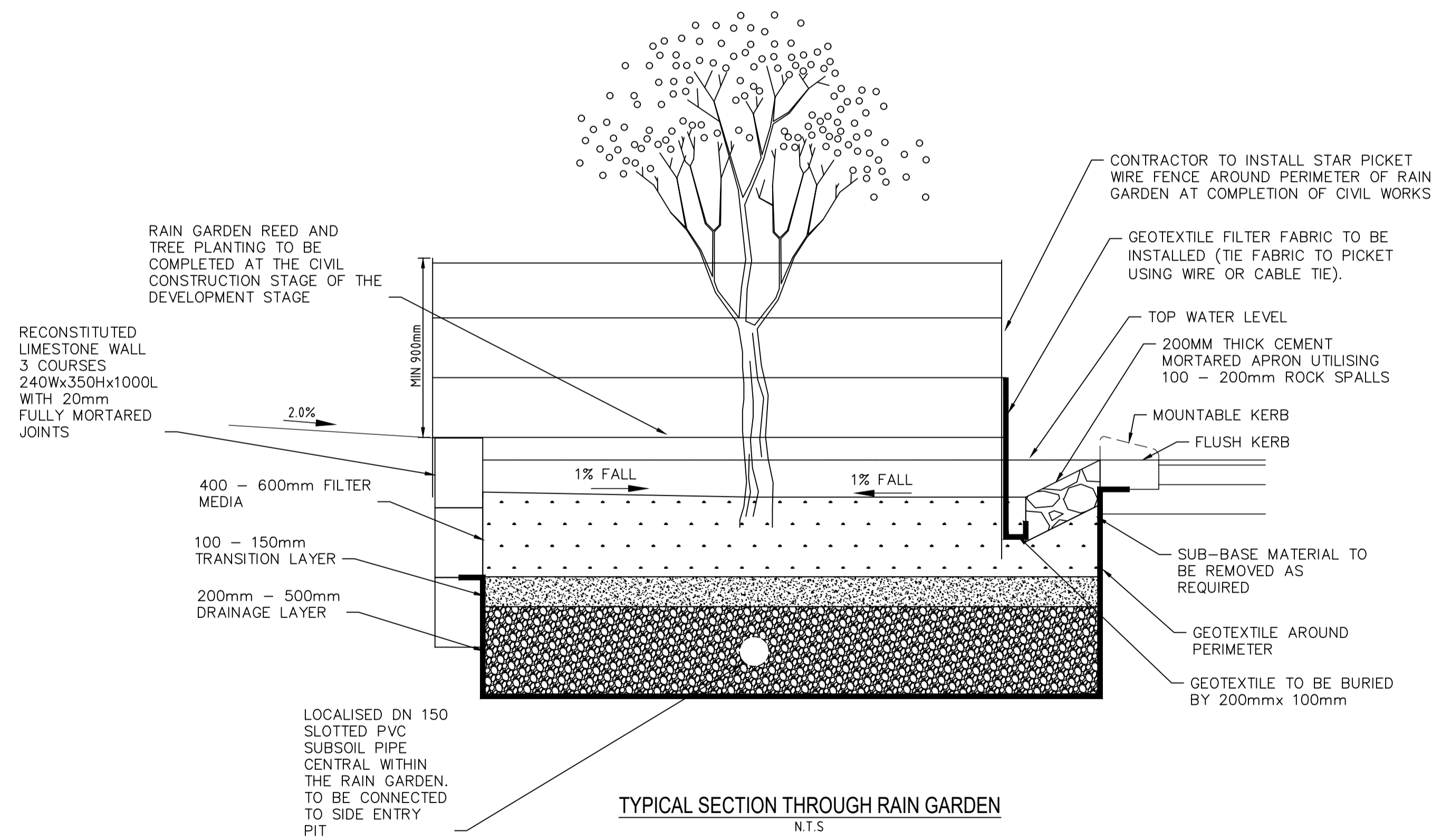


TYPICAL RAIN GARDEN LAYOUT  
N.T.S.



TYPICAL SECTION THROUGH RAIN GARDEN  
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 0.075mm 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 - 9.5mm 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
8. REFER STANDARD DETAILS DRAWING STD-D10 FOR SUBSOIL REQUIREMENTS.

Engineering Standard Details DWG's STD-D11 - RAIN GARDEN REV C DWG

No	Date	Revision	By	Approved
C	12/05/26	INSPECTION RISER REQUIREMENT ADDED	MJ	BC
B	03/01/25	NOTE 7 AMENDED	BC	VB
A	30/11/23	ISSUED FOR REVIEW	BV	NS

Scale	AS SHOWN
Date	N/A

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Drawn	BC	Date	30/11/23	Signet	
Designed	BV	Date	30/11/23	Signet	
Checked	VB	Date	30/11/23	Signet	

SHIRE OF SERPENTINE JARRAHDAL  
STANDARD DRAWINGS

DRAINAGE - RAIN GARDEN

1 OF 1  
B  
STD-D11