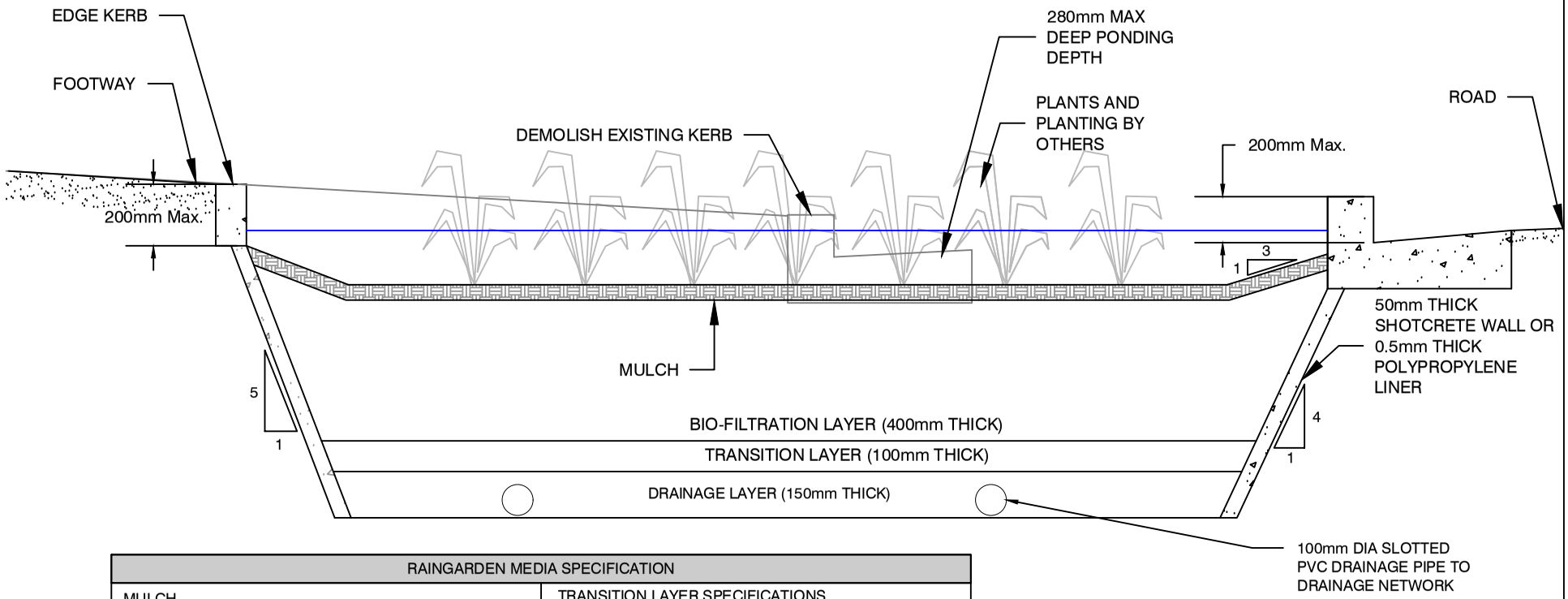
CITY OF SYDNEY

RAINGARDENS
UNLINED

SECTION 1:20



RAINGARDEN MEDIA SPECIFICATION

MULCH
- WASHED AGGREGATE 10-20mm

BIO FILTRATION SPECIFICATION
SANDY LOAM MIX (IN ACCORDANCE WITH FAWB GUIDELINES)

- SATURATED HYDRAULIC CONDUCTIVITY
100mm /Hr - 250mm \Hr

PARTICLE DISTRIBUTION

DESCRIPTION	PROPORTION	GRADING
Clay & Silt	<3%	<0.05mm
Very Fine Sand	5-30%	0.05-0.15mm
Fine Sand	10-30%	0.15-0.25mm
Medium to Coarse Sand	40-60%	0.25-1.0mm
Coarse Sand	7-10%	1.0-2.0mm
Fine Gravel	<3%	2.0-3.4mm

- TOTAL CLAY AND SILT CONTENT ≤3%
- ORGANIC CONTENT <5%
- PH (1:5 IN WATER) 5.5 - 7.5
- ELECTRICAL CONDUCTIVITY (EC) <1.2dS/m
- TOTAL NITROGEN <1000mg/kg
- ORTHOPHOSPHATE (PO_4^3) <80mg/kg

TRANSITION LAYER SPECIFICATIONS
COARSE WASHED RIVER SAND OR RECYCLED CRUSHED GLASS EQUIVALENT
- 90% PARTICLES RETAINED ABOVE 0.25mm
- SATURATED HYDRAULIC CONDUCTIVITY >250mm/Hr

DRAINAGE LAYER SPECIFICATION
NO FINES DRAINAGE GRAVEL

ACCEPTABLE PARTICLE DISTRIBUTION

PARTICLE SIZE	% RETAINED
>7mm	0
4-7mm	>70%
2-4mm	<20%
<2mm	0

NOTES

1. BACK OF KERB SHALL BE CONSTRUCTED VERTICALLY AND NO EXCESS CONCRETE SHALL BE POURED IN THE RAIN GARDEN.

2. WHERE STRUCTURAL STABILITY OF KERB IS A CONCERNED MATTER, THE KERB & GUTTER MAY BE REINFORCED USING REINFORCEMENT STEEL BARS REFER DWG# 1.1.15

3. THE KERBS MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH CITY OF SYDNEY STREET CODE

4. DRAINAGE LAYER MAY BE DELETED IF THERE IS NO DRAINAGE IN THE VICINITY SUBJECTED TO CITY'S APPROVAL.

5. THE SLOTTED PIPE SHALL BE CONNECTED TO BY PASS CHAMBER OF BYPASS PIT/SURCHARGE PIT

NOTE: ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

Rev	Date	Approved
D	01.12.19	P S

DRAINAGE

Dwg No. 7.2.4