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**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PROPORTION</th>
<th>GRADING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay &amp; Silt</td>
<td>&lt;3%</td>
<td>&lt;0.05mm</td>
</tr>
<tr>
<td>Very Fine Sand</td>
<td>5-30%</td>
<td>0.05-0.15mm</td>
</tr>
<tr>
<td>Fine Sand</td>
<td>10-30%</td>
<td>0.15-0.25mm</td>
</tr>
<tr>
<td>Medium to Coarse Sand</td>
<td>40-60%</td>
<td>0.25-1.0mm</td>
</tr>
<tr>
<td>Coarse Sand</td>
<td>7-10%</td>
<td>1.0-2.0mm</td>
</tr>
<tr>
<td>Fine Gravel</td>
<td>&lt;3%</td>
<td>2.0-3.4mm</td>
</tr>
</tbody>
</table>

- 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 (PO4³) <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

<table>
<thead>
<tr>
<th>PARTICLE SIZE</th>
<th>% RETAINED</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;7mm</td>
<td>0</td>
</tr>
<tr>
<td>4-7mm</td>
<td>&gt;70%</td>
</tr>
<tr>
<td>2-4mm</td>
<td>&lt;20%</td>
</tr>
<tr>
<td>&lt;2mm</td>
<td>0</td>
</tr>
</tbody>
</table>

**ROAD EDGE KERB**
- DEMOLISH EXISTING KERB
- 280mm MAX DEEP PONDING DEPTH
- DEPTH
- PLANTS AND PLANTING BY OTHERS
- 50mm THICK SHOTCRETE WALL OR 0.5mm THICK POLYPROPYLENE LINER
- TRANSITION LAYER (100mm THICK)
- BIO-FILTRATION LAYER (400mm THICK)
- MULCH 200mm Max.
- DRAINAGE LAYER (150mm THICK)

**NOTES**
1. BACK OF KERB SHALL BE CONSTRUCTED VERTICALLY AND NO EXCESS CONCRETE SHALL BE POURED IN THE RAINGARDEN.
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 SUBMITTED TO CITY’S APPROVAL.
5. THE SLOTED PIPE SHALL BE CONNECTED TO CHAMBER OF BYPASS PIT/SURCHARGE PIT DRAINAGE

**DRAINAGE**

**NOTE:** ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

**SECTION 1:20**

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**RAINGARDENS**

**UNLINED**

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**DRAINAGE**

**Rev** E
**Date** 10.06.16
**Dwg No.** 7.2.4
**Approved** P S