**GENERAL NOTES:**

1. **BIORETENTION SOIL MIX:**
   a. 60% SAND
   b. 20% WOODCHIPS
   c. 20% TOPSOIL

2. **DO NOT COMPACT SUBGRADE AT BOTTOM OF EXCAVATION**

3. **THIS DETAIL IS PROVIDED FOR GENERAL GUIDANCE. ACTUAL SYSTEM DESIGN BASED ON SPECIFIC SITE CHARACTERISTICS AND DESIGN CRITERIA.**

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**Site Characteristics and System Treatment Capacity**

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Impervious Area (sf)</th>
<th>Impervious Area (acres)</th>
<th>Best Management Practice</th>
<th>Hydrologic Soil Group</th>
<th>Depth of Runoff Treated from Impervious Area (in)</th>
<th>Total Suspended Sediment</th>
<th>Total Phosphorus</th>
<th>Total Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Durham ORCSD</td>
<td>23,958</td>
<td>0.55</td>
<td>Bioretention</td>
<td>D</td>
<td>0.71</td>
<td>332</td>
<td>0.83</td>
<td>7.3</td>
</tr>
</tbody>
</table>

**BMP Performance Curve: Infiltration Basin**

(Soil Infiltration Rate: 0.17 in/hr)

**Best Management Practice (from EPA Opti-Tool)**

| Best Management Practice (includes Rain Garden) | Storage Volume Cost ($/ft³) | Cost ($/ft³) 2015 dollars
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bioretention (includes Rain Garden)</td>
<td>$13.37</td>
<td>$14.63</td>
</tr>
</tbody>
</table>

1 Includes 35% add on for engineering and contingencies
2 Costs in 2010 dollars
3 From UNHSC Cost Estimates