CONSTRUCTION INSPECTIONS

1. CALL THE QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS AT 410-758-0925 PRIOR TO CONSTRUCTION AND IMMEDIATELY FOLLOWING EACH OF THE FOLLOWING PHASES:

2. EXCAVATION TO SUBGRADE AND BEFORE PLACEMENT OF SOIL.

3. FINE GRADING AND PERMANENT STABILIZATION OF ADJACENT SOILS.

SITE PLAN SYMBOL

TREATED AREA (sq. ft.)

SIZING CHART

<table>
<thead>
<tr>
<th>TREATED AREA (sq. ft.)</th>
<th>BIO-SWALE AREA (sq. ft.)</th>
<th>SUGGESTED DIMENSIONS</th>
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</thead>
<tbody>
<tr>
<td>500</td>
<td>48</td>
<td>25</td>
</tr>
<tr>
<td>1000</td>
<td>95</td>
<td>50</td>
</tr>
<tr>
<td>1500</td>
<td>140</td>
<td>50</td>
</tr>
<tr>
<td>2000</td>
<td>190</td>
<td>65</td>
</tr>
</tbody>
</table>

SWALE SHALL DISCHARGE TO NATIVE GRADE OR INTO DOWNSTREAM SWALE

4" LOAM & SEED WITH SOD OR EROSION CONTROL MATTING

TOP OF SWALE

PROFILE VIEW

4" LOAM & SEED WITH SOD OR EROSION CONTROL MATTING

TOP OF SWALE

NATIVE SOIL

CROSS SECTION

PLANETING SOIL

2'-0" TO 3'-0"

QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS
SINGLE LOT RESIDENTIAL ONLY
BIO-SWALE CONSTRUCTION DETAIL

STANDARD NO. SW-107.01

APPROVED 12/4/15

DIRECTOR, DEPT. OF PUBLIC WORKS

CHIEF OF ENGINEERING
CONSTRUCTION NOTES

1. BIO-SWALES SHALL BE CONSTRUCTED AFTER ALL
   UPSTREAM AREAS HAVE BEEN STABILIZED WITH
   EITHER IMPERVIOUS SURFACES OR TOPSOIL AND
   VEGETATION.

2. TRENCH EXCAVATION SHALL BE ROUGH AND
   UNCOMPACTED. IF SMEARING OF BOTTOM OR
   WALLS OCCURS, SCRATCH AWAY THE SMEAR WITH
   A RAKE.

3. OVERFLOW FROM BIO-SWALE SHALL BE DIRECTED
   OVER A 6' WIDE MINIMUM EARTH SPILLWAY
   STABILIZED WITH TURF GRASS OR A TIMBER
   CHECK DAM. THE DISCHARGE SHALL NOT BE A
   SOURCE OF DOWNSTREAM EROSION.

4. BIO-SWALE STABILIZATION SHALL BE EITHER 4"
   TOPSOIL, TURF-GRASS SEED AND EROSION
   CONTROL MATTING OR 4" TOPSOIL AND SOD.

MAINTENANCE CRITERIA:

1. WATER VEGETATION LIBERALLY THE FIRST
   GROWING SEASON AND DURING PERIODS OF
   DROUGHT THEREAFTER.

2. SILTS AND SEDIMENT SHOULD BE REMOVED FROM
   THE SURFACE OF THE FILTER BED WHEN
   ACCUMULATION EXCEEDS ONE INCH.

3. THE TOP FEW INCHES OF FILTER MEDIA SHOULD
   BE REMOVED AND REPLACED WHEN WATER
   PONDS FOR MORE THAN 48 HOURS.

MINIMUM SETBACKS

1. 10 FEET FROM A BUILDING OR PROPERTY LINE
2. 25 FEET FROM A SEPTIC RESERVE AREA
3. 15 FEET FROM A DEEP WELL
4. 25 FEET FROM A SHALLOW WELL

SOIL SPECIFICATIONS

1. THE BIO-SWALE PLANTING SOIL SHALL HAVE A
   COMPOSITION OF 50% SAND, 20% COMPOSTED
   LEAVES, AND 30% TOPSOIL.

2. SOIL SHALL BE OF UNIFORM COMPOSITION,
   FREE OF STONES, DEBRIS, STUMPS, ROOTS OR
   SIMILAR OBJECTS LARGER THAN ONE INCH.

3. SOIL SHALL BE FREE OF PLANTS OR PLANT
   PARTS OF BERMUDA GRASS, QUACK GRASS,
   JOHNSON GRASS, MUGWORT, NUTSEDGE,
   POISON IVY, CANADIAN THISTLE.

4. PLANTING SOIL SHALL BE OVERFILLED BY 2–3"
   TO ALLOW FOR SETTLING. COMPACT LIGHTLY
   PRIOR TO STABILIZATION.

QUEEN ANNE’S COUNTY
DEPARTMENT OF PUBLIC WORKS
SINGLE LOT RESIDENTIAL ONLY
BIO-SWALE NOTES

STANDARD NO. SW-107.02