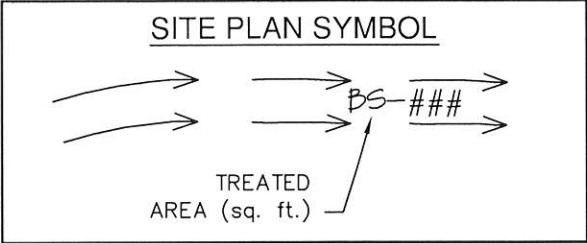


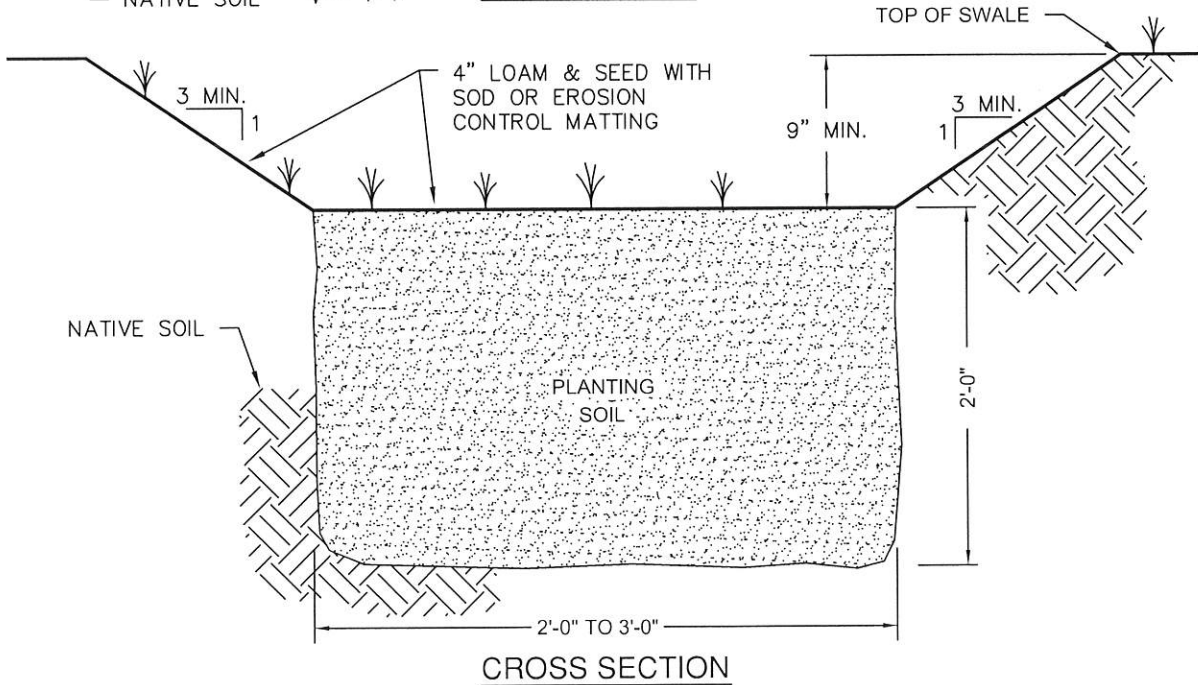
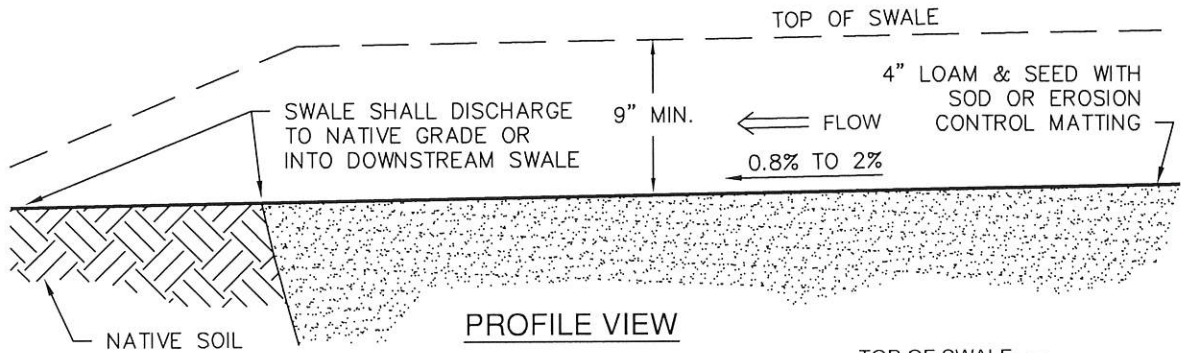
CONSTRUCTION INSPECTIONS

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.



SIZING CHART

TREATED AREA (sq.ft.)	BIO-SWALE AREA (sq.ft.)	SUGGESTED DIMENSIONS	
		LENGTH	WIDTH
500	48	25	2
1000	95	50	2
1500	140	50	3
2000	190	65	3



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<p>APPROVED <i>12/01/15</i></p> <p style="text-align: center;">DATE</p> <p><i>[Signature]</i></p> <p>DIRECTOR, DEPT. OF PUBLIC WORKS</p> <p><i>[Signature]</i></p> <p>CHIEF OF ENGINEERING</p>	<p>SCALE:</p> <p>NO SCALE</p> <p>REVISIONS:</p>	<p>QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS</p> <hr/> <p>SINGLE LOT RESIDENTIAL ONLY</p> <hr/> <p>BIO-SWALE CONSTRUCTION DETAIL</p> <hr/> <p>STANDARD NO. SW-107.01</p>
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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.


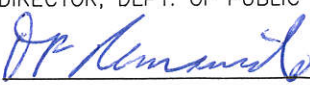
MINIMUM SETBACKS

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, NUTSEGE, POISON IVY, CANADIAN THISTLE.
4. PLANTING SOIL SHALL BE OVERFILLED BY 2-3" TO ALLOW FOR SETTLING. COMPACT LIGHTLY PRIOR TO STABILIZATION.

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<p>APPROVED <u>12/01/15</u>  DATE</p> <p>DIRECTOR, DEPT. OF PUBLIC WORKS</p> <p> CHIEF OF ENGINEERING</p>	<p>SCALE: NO SCALE</p> <p>REVISIONS:</p>	<p>QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS</p> <hr/> <p>SINGLE LOT RESIDENTIAL ONLY</p> <hr/> <p>BIO-SWALE NOTES</p> <hr/> <p>STANDARD NO. SW-107.02</p>
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