

NOTE: REFERENCE IS MADE TO SITE PLAN PREPARED BY ANCHOR ENGINEERING FOR MORE INFORMATION ON PARKING LAYOUT AND SPECIFICATIONS FOR PAVED PARKING AREA, BITUMINOUS CURBING AND LANDSCAPING.
 NOTE: TRINKAUS ENGINEERING, LLC HAS ONLY DESIGNED THE GRADING FOR THE PARKING LOT AND STORMWATER MANAGEMENT SYSTEM. ANCHOR ENGINEERING WILL BE DESIGNING THE GRADING AND EROSION CONTROL FOR OTHER PORTIONS OF THE SITE OUTSIDE THE LIMIT OF THE PARKING AREA/BOAT RAMP SHOWN ON THIS PLAN.
 NOTE: TEST HOLES SHALL BE DONE IN THE AREA OF THE BIOSWALE AND THE OPEN CELL PVC PAVER SYSTEM BY TRINKAUS ENGINEERING, LLC AT THE COMMENCEMENT OF CONSTRUCTION TO CONFIRM SOIL CONDITIONS IN THESE AREAS.

Note: Survey and topographic information was provided by Anchor Engineering.

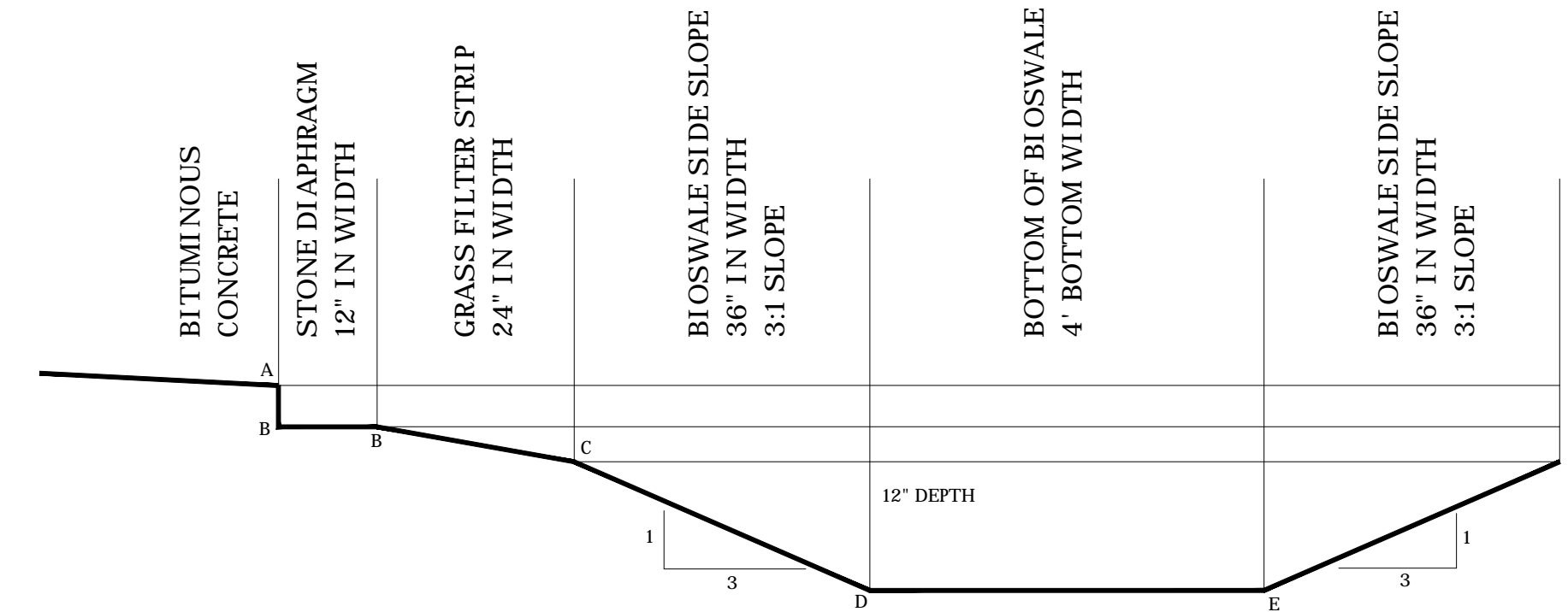
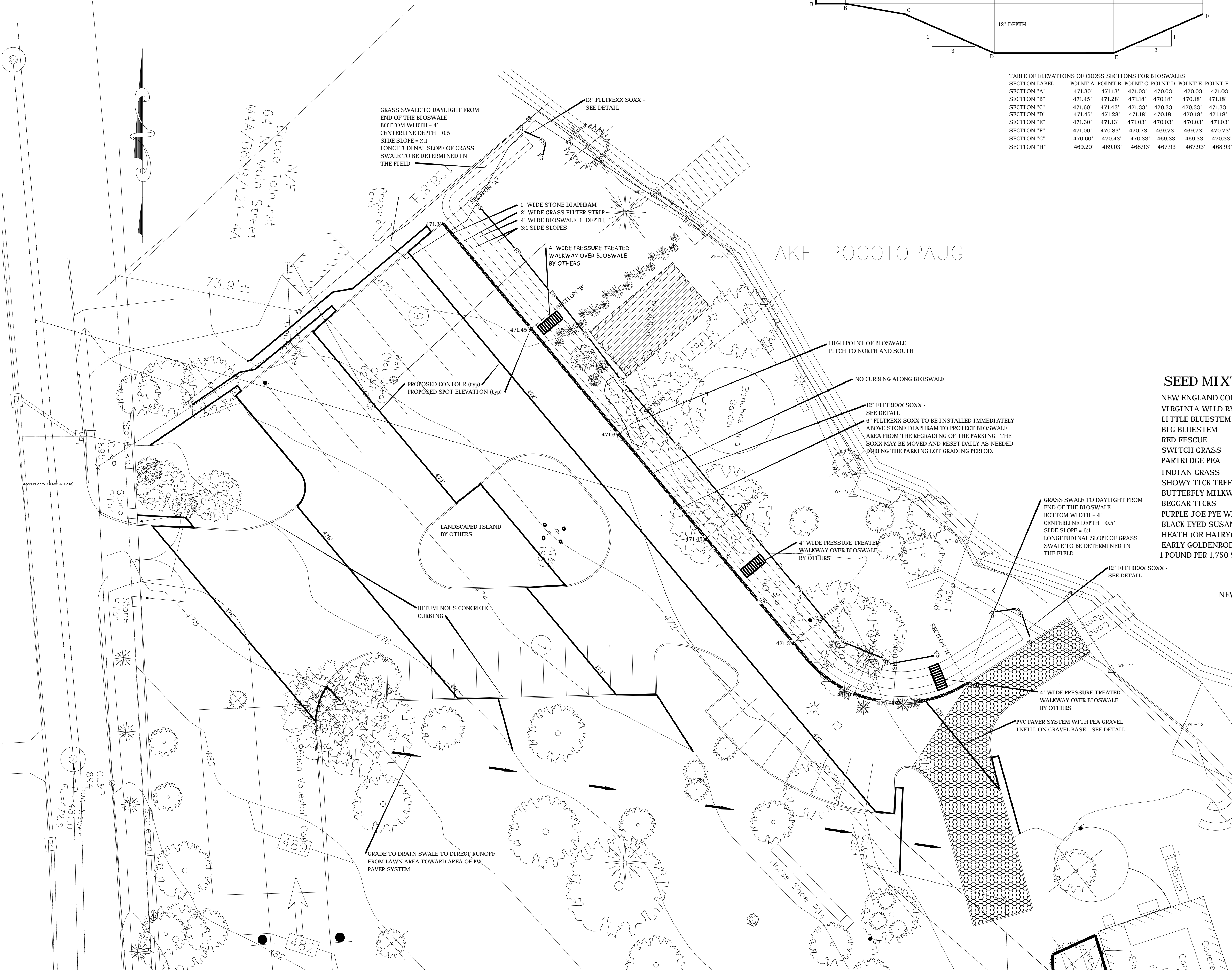
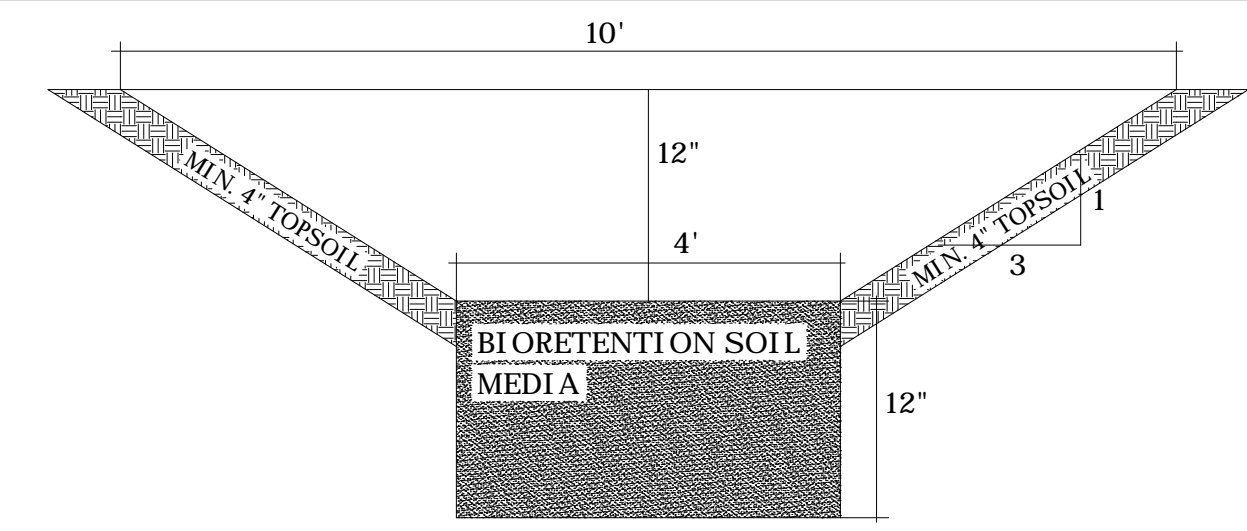


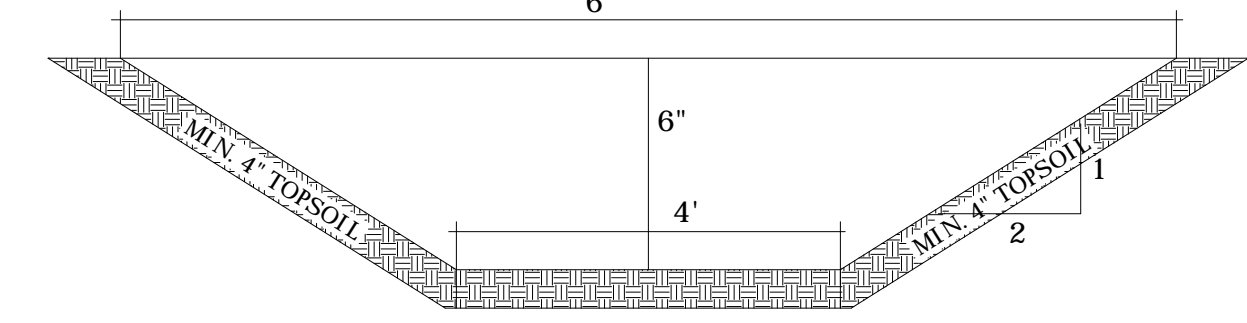
TABLE OF ELEVATIONS OF CROSS SECTIONS FOR BIOSWALES

SECTION LABEL	POINT A	POINT B	POINT C	POINT D	POINT E	POINT F
SECTION "A"	471.30	471.13	471.03	470.03	470.03	471.03
SECTION "B"	471.45	471.28	471.18	470.18	470.18	471.18
SECTION "C"	471.60	471.43	471.33	470.33	470.33	471.33
SECTION "D"	471.45	471.28	471.18	470.18	470.18	471.18
SECTION "E"	471.30	471.13	471.03	470.03	470.03	471.03
SECTION "F"	471.00	470.83	470.73	469.73	469.73	470.73
SECTION "G"	470.60	470.43	470.33	469.33	469.33	470.33
SECTION "H"	469.20	469.03	468.93	467.93	467.93	468.93

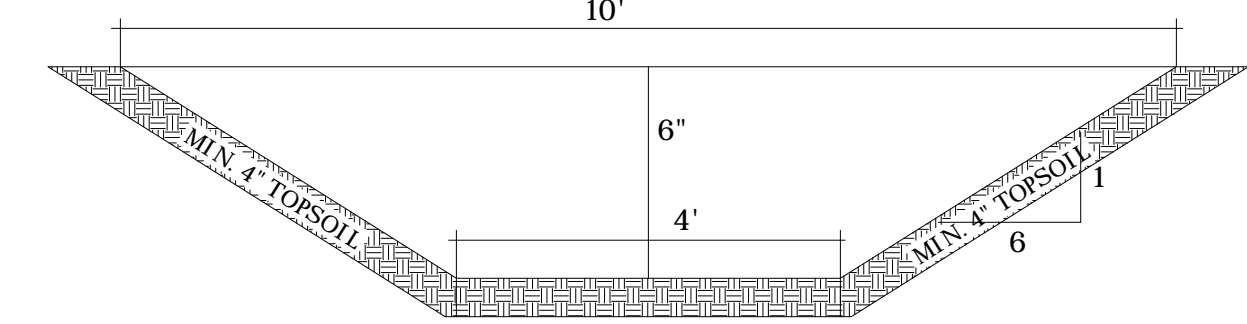


CROSS SECTION OF BIOSWALE
NOT TO SCALE

COMPOSITION OF SOIL MEDIA FOR BIORETENTION SYSTEM:
 WASHED CONCRETE COARSE SAND (85% by volume)
 WELL DECOMPOSED LEAF COMPOST (11% by volume)
 SANDY TOPSOIL OR LOAM (4% by volume)**
 ** TOPSOIL OR LOAM SHALL HAVE LESS THAN 2.0% CLAY CONTENT



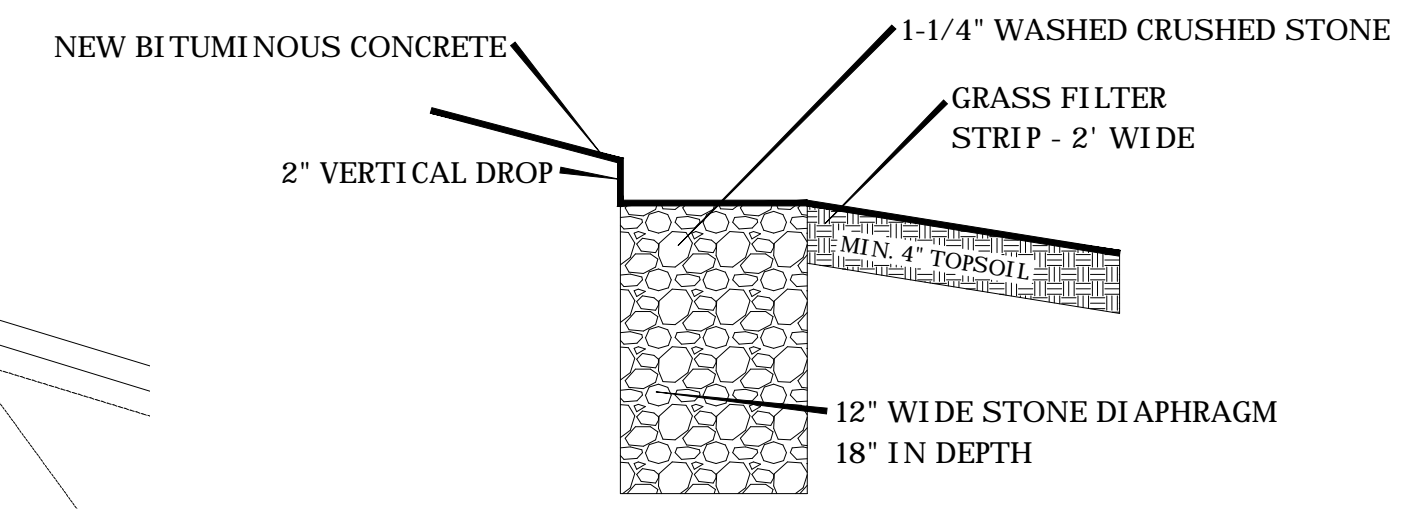
CROSS SECTION OF NORTH GRASS SWALE
NOT TO SCALE



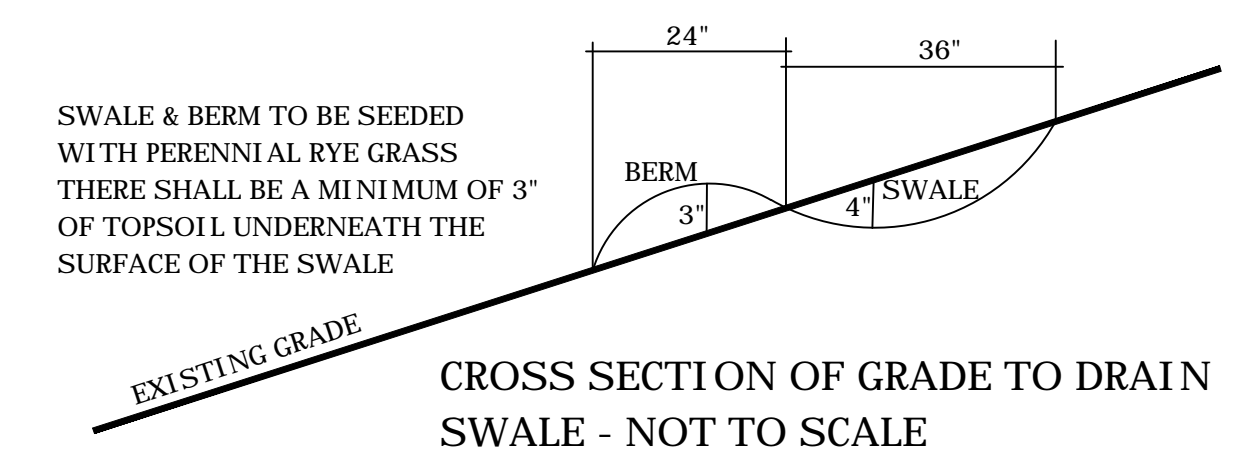
CROSS SECTION OF SOUTH GRASS SWALE
NOT TO SCALE

SEED MIXTURES FOR BIOSWALE AND GRASS SWALES

NEW ENGLAND CONSERVATION/WILDLIFE SEED MIXTURE BY NEW ENGLAND WETLAND PLANTS (www.newp.com):
 VIRGINIA WILD RYE
 LITTLE BLUESTEM
 BIG BLUESTEM
 RED FESCUE
 SWITCH GRASS
 PARTRIDGE PEA
 INDIAN GRASS
 SHOWY TICK TREFOIL
 BUTTERFLY MILKWEED
 BEGGAR TICKS
 PURPLE JOE PYE WEED
 BLACK EYED SUSAN
 HEATH (OR HAIRY) ASTER
 EARLY GOLDENROD
 1 POUND PER 1,750 SQUARE FEET (APPLICATION RATE)



SECTION OF STONE DIAPHRAGM AND GRASS FILTER STRIP
NOT TO SCALE



SWALE & BERM TO BE SEED WITH PERENNIAL RYE GRASS THERE SHALL BE A MINIMUM OF 3" OF TOPSOIL UNDERNEATH THE SURFACE OF THE SWALE
 CROSS SECTION OF GRADE TO DRAIN SWALE - NOT TO SCALE

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STORMWATER MANAGEMENT PLAN
 SHEET 1 OF 2
 PROJECT #015-2019
 SCALE: 1" = 20'
 DATE: 6/1/19

PREPARED FOR
 TOWN OF EAST HAMPTON
 SEARS PARK
 East Hampton - Connecticut

CONSTRUCTION SEQUENCE FOR LOW IMPACT SUSTAINABLE DEVELOPMENT STORMWATER SYSTEMS:

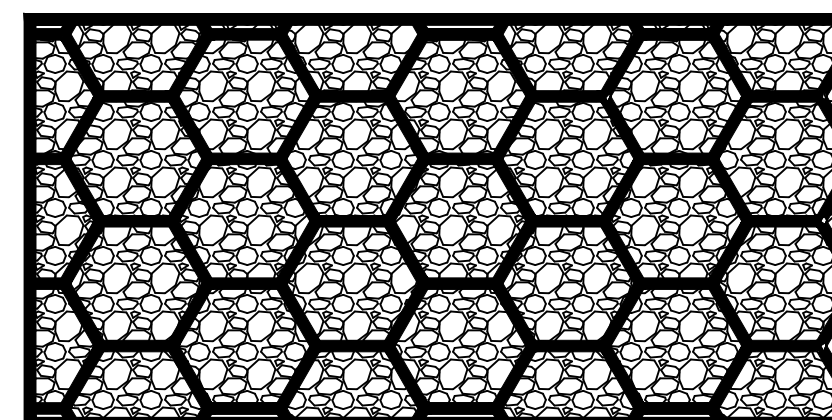
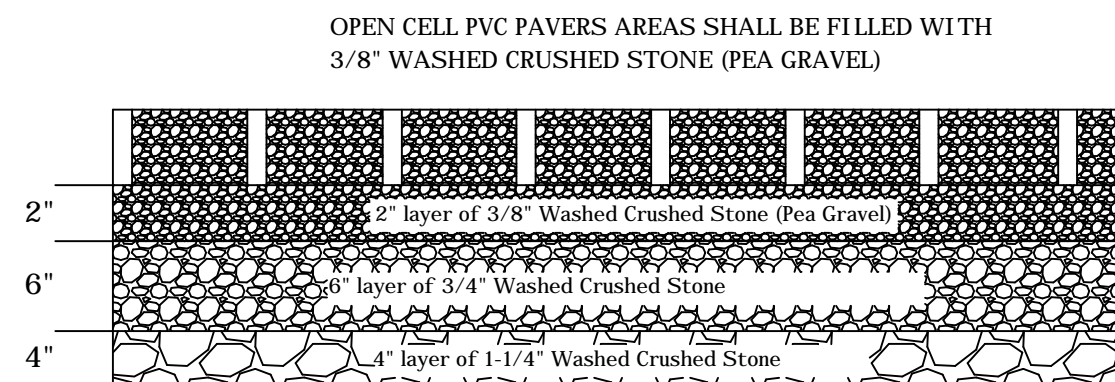
1. Filtrexx Soxx shall be installed downgradient of the proposed Bioswale and Grass Swales as shown on the site plan. The Soxx shall be installed in accordance with the manufacturer's specifications and the detail shown on these plans.
2. A minimum of two deep test pits shall be excavated in the area of the Bioswale and one test pit in the area of the open cell PVC pavers prior to the commencement of site work.
3. The Bioswale shall be installed at this time in accordance with all the construction specifications and details provided on these plans.
4. The stone diaphragm and Grass Swales shall be installed after the entire Bioswale has been installed. After the Grass Swales have been installed, both the Grass Swales and the Bioswale shall be seeded with the seed mixture specified on this plan.
5. After the above work has been completed, the 6" Filtrexx Soxx shall be installed immediately above the stone diaphragm to prevent any silt from the regrading of the parking lot from being discharged into the stormwater management system.
6. Install "grade to drain" swale and berm along the south side of the parking lot to direct overland flow toward the PVC paver system. This works shall be done in accordance with the detail provided on the plan.
7. The existing parking lot shall be regraded per these plans. The subbase material and bituminous concrete pavement shall be installed per the specifications found on plans prepared by Anchor Engineering.
8. The 6" Filtrexx Soxx above the stone diaphragm and Bioswale shall be removed to allow for the placement of the gravel base and bituminous concrete.
9. After the pavement has been installed, the area for the open cell PVC pavers shall be prepared for installation. It shall be excavated to the required design depth, gravel subbases shall be installed with the PVC pavers and pea gravel infill being done.
10. After all disturbed areas have been stabilized with vegetation then the erosion control measures shall be removed.

INITIAL MAINTENANCE REQUIREMENTS FOR BIOSWALE & GRASS SWALES:

1. Water the seed mixture in the swales as needed to ensure the establishment of the vegetation.
2. Remove organic debris and leaves from the swales twice a year (late spring and late fall). Removed material shall be disposed of in a proper manner away from the lake area.

LONG TERM MAINTENANCE REQUIREMENTS FOR BIOSWALES & GRASS SWALES:

1. System shall be inspected twice a year and non-native plants and weeds shall be removed as needed.
2. The perennial vegetation shall be cut back in Late October and the cut vegetation removed from the swale system and disposed off in a proper manner.
3. Accumulated leaves shall be removed from the swale system in the fall and spring as needed.
4. If there is visible accumulation of sediment on the surface of the soil media which is deeper than 1", then the accumulated sediment shall be removed by hand using a rake and shovel and disposed of away from the Bioswale. The surface of the Bioswale media shall be lightly raked to loosen the soil surface and restore the infiltrative surface by using a metal lawn rake so as not to disturb the healthy vegetation.



**PVC OPEN CELL PAVER SYSTEM
NOT TO SCALE**

(www.tyargeosynthetics.com/products/porous-paving/bodpave-85-porous-pavers.html)

CONSTRUCTION SEQUENCE FOR RECONSTRUCTION OF PARKING AREA AT BOAT RAMP:

1. Excavate area proposed for open cell paver system and remove material from site. Depth of excavation shall be 15" below existing grade.
 2. After excavation has been completed, scarify the bottom of the excavation with the teeth of the excavator. The machine is not allowed within the area of the excavation. Scarification shall be 3-4" in depth. The vertical sidewalls of the excavation shall be scarified by using a metal garden rake by a manual laborer.
 3. The base layer of 4" of 3/4" washed crushed stone shall be placed in the excavation area and spread to be a uniform depth of 4".
 4. Install 6" layer of 3/4" washed stone and lightly compact and smooth out the surface using a walk-behind roller.
 5. Install bedding layer of 2" of 3/8" washed stone layer. This layer shall be lightly compacted using the walk-behind roller.
 6. PVC pavers shall be installed on top of the bedding layer and in accordance with all applicable specifications by the manufacturer. After the pavers have been installed, 3/8" pea gravel shall be dumped and spread over the pavers using an excavator which is located off the pavers themselves. After the pea gravel has initially been placed and spread, a walk-behind vibratory tamper shall be run over the pavers to settle the stone in place. The layer of the pea gravel shall be slightly below the top of the pavers (within 1/2" of the top of the pavers).
- Note: No excavation equipment shall be permitted in the area of the pavers after the required subgrade has been reached. All stone and other materials for the base section of the pavers shall be placed from outside the limit of the excavation. No dump trucks are permitted to drive over the excavated area. All stone layers shall be spread by using an excavator located outside the limit of the excavation and fine grading shall be done by hand.

MAINTENANCE REQUIREMENTS FOR PAVING STONE SYSTEM:

- Maintenance for Paving stone systems are very simple when gravel is used as the filler between the paving stones.
1. No sand is to be applied during winter season. Pellet decing salts shall be used to prevent black ice, if needed.
 2. Snow blow blade shall be set to be 1/2" above top of pavers to prevent damage. Remaining snow will melt and infiltrate into gravel.
 3. Inspect paver surface twice a year. Remove any leaves, sticks or organic matter as needed.
 4. Twice a year, use a leaf blower (hand held or wheeled) and lightly blow any loose sediments, and organic material off the paver surface.
 5. If the stone gets clogged by sediment where infiltration is not possible, then a sweeper/vacuum system needs to be used to remove the sediment and some of the stone in the clogged area. Any removed stone by vacuuming shall be replaced with identical material. Depth of removal pea gravel should not exceed 1/2".

PREPARED FOR
TOWN OF EAST HAMPTON
SEARS PARK
East Hampton - Connecticut

CONSTRUCTION DETAIL SHEET
SHEET 2 OF 2
PROJECT #015-2019
SCALES AS NOTED
DATE: 6/1/19



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