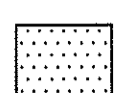





SUBMERGED GRAVEL WETLANDS SCHEDULE

NO.	AREA (S.F.)	PONDING DEPTH (FT.)	FINISH GRADE ELEV.	BOT STONE ELEV.	C.O.'s	TOP OF BERM ELEV.
1	3070	1.0'	287.25	284.25	4	288.25
2	4327	0'	287.75	287.75	5	287.75
3	3680	0'	287.75	287.75	4	287.75

LEGEND

-  EX. SIDEWALK TO BE REMOVED
-  PROPOSED SIDEWALK
-  PROPOSED BOARDWALK
-  PROPOSED GRAVEL WETLANDS

CITY OF FREDERICK

APPROVED: For Construction

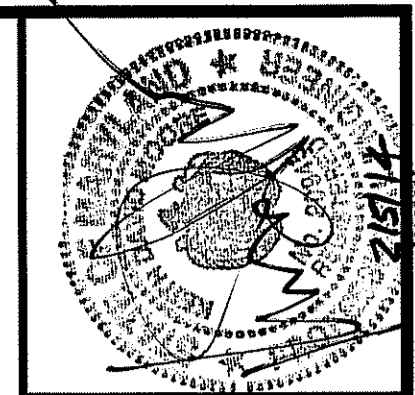
DATE: 2/7/14

CITY ENGINEER: [Signature]

Construction approval by City Engineer valid for a period of two (2) years from date of approval. If a bonafide attempt to commence construction has not begun in this 2 year period, City approval shall be null and void.

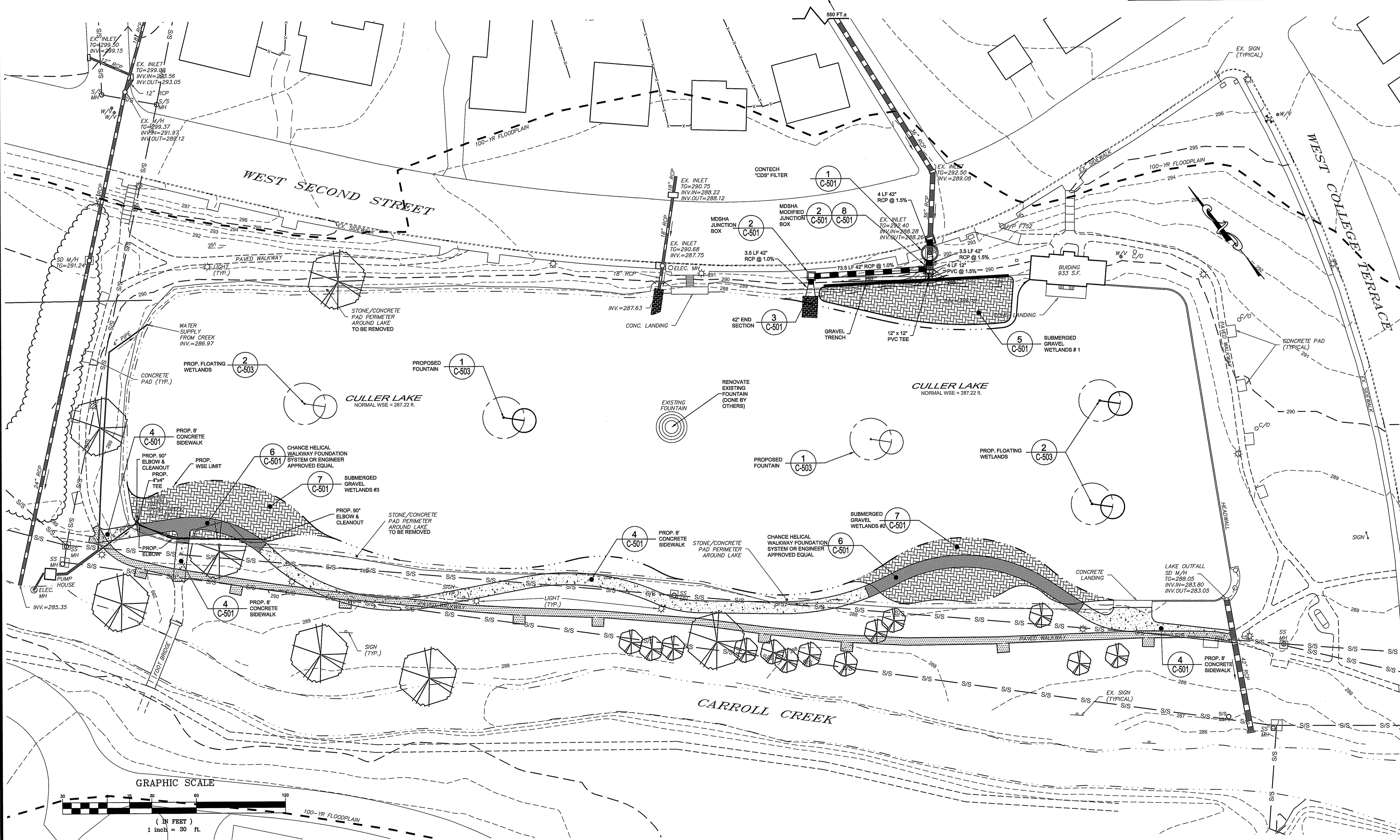
All approvals are subject to the water allocation ordinance and in no way imply allocation of water. The owner/developer proceeds with any improvements at his/her sole risk.

REV. NO.	REVISION DESCRIPTION (FOR REVISIONS TO PREVIOUSLY APPROVED PLANS)	CONSULTANT: DATE AND INITIAL	CITY ENGINEER: DATE AND INITIAL

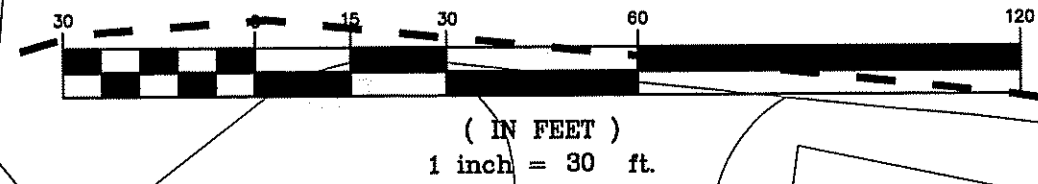


Professional Certification
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 20865 - Expiration Date: 03/31/2015.

FREDERICK SEIBERT & ASSOCIATES, INC.
 © 2013
 CIVIL ENGINEERS - SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS
 128 SOUTH POTOMAC STREET, HAGERSTOWN, MARYLAND 21740
 20 WEST BALTIMORE STREET, GREENCASTLE, PENNSYLVANIA 17225
 (410) 791-3600
 (717) 991-9077
 (717) 991-7478



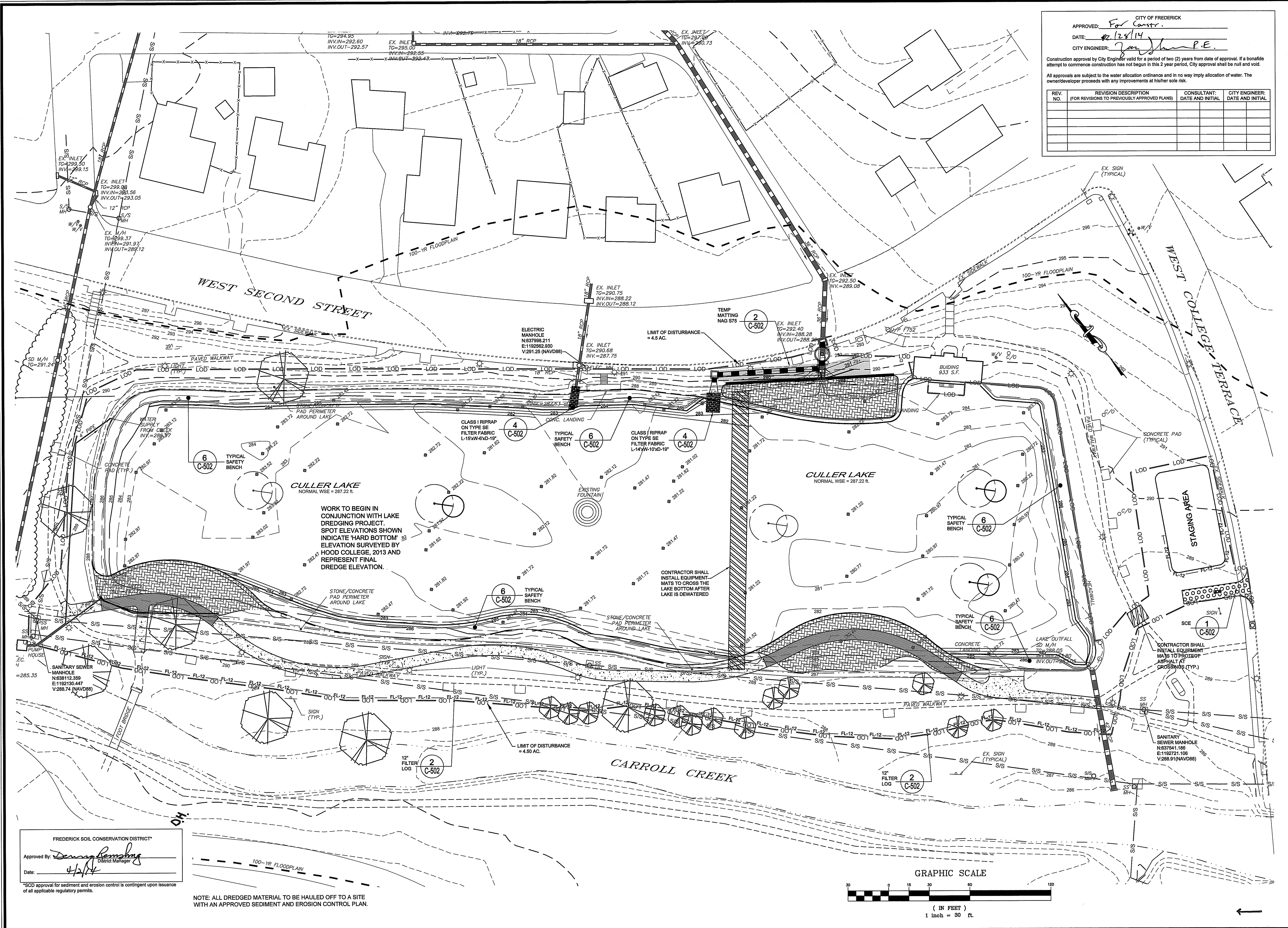
GRAPHIC SCALE



DATE:	DESCRIPTION:	MARK:
11/14/14	REVISION PER 10/14 MEETING COMMENTS	

CULLER LAKE
 Situate along the southeast corner of West 2nd Street and West College Terrace
 FREDERICK COUNTY, MARYLAND
 CLIENT: Road Works
 City of Frederick, Frederick, MD 21701
 121 North Baratz St. Frederick, MD 21701
 (301) 600-1902

PROJECT NO:	6314
CAD DWG FILE:	C-102 SITE PLAN.DWG
DWN BY:	TMF
DATE:	05-20-2013
CHK BY:	KDM
DATE:	07-01-2013
TAX MAP:	ELECTION DIST.
SCALE:	1" = 30'
SHEET TITLE:	SITE PLAN
SHEET:	C-102
OF:	7

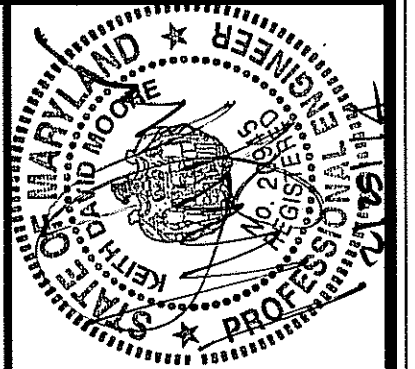


APPROVED: For Constr. CITY OF FREDERICK
 DATE: 2/28/14
 CITY ENGINEER: John P.E.

Construction approval by City Engineer valid for a period of two (2) years from date of approval. If a bonafide attempt to commence construction has not begun in this 2 year period, City approval shall be null and void.

All approvals are subject to the water allocation ordinance and in no way imply allocation of water. The owner/developer proceeds with any improvements at his/her sole risk.

REV. NO.	REVISION DESCRIPTION (FOR REVISIONS TO PREVIOUSLY APPROVED PLANS)	CONSULTANT: DATE AND INITIAL	CITY ENGINEER: DATE AND INITIAL



FREDERICK SEIBERT & ASSOCIATES, INC.
 CIVIL ENGINEERS - SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS
 206 SOUTH POTOMAC STREET, HAGERSTOWN, MARYLAND 21740
 20 WEST BALTIMORE STREET, GREENCASTLE, PENNSYLVANIA 17225
 (301) 791-1600

DATE	DESCRIPTION

CULLER LAKE
 situate along the southwest corner of West 2nd Street and West College Terrace
 City of Frederick
FREDERICK COUNTY, MARYLAND
 CLIENT: City of Frederick, c/o Rod Myers
 121 North Benz St., Frederick, MD 21701
 (301) 600-1802

PROJECT NO:	6314
CAD DWG FILE:	C-103 SEC & LANDSCAPE PLAN.DWG
DWN BY:	TMF
DATE:	05-20-2013
CHK BY:	KDM
DATE:	07-01-2013
TAX MAP:	ELECTION DIST.
SCALE:	VARIES
SHEET TITLE:	SEC & LANDSCAPE PLAN
C-103	SHEET 4 OF 7

FREDERICK SOIL CONSERVATION DISTRICT
 Approved By: [Signature] District Manager
 Date: 4/2/14

*SCD approval for sediment and erosion control is contingent upon issuance of all applicable regulatory permits.

SOIL EROSION, SEDIMENT CONTROL & SEEDING NOTES

- All soil erosion/sediment control measures shall comply with the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control" and the provisions of the approved plan.
- All grading and stabilization shall comply with the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control", "Section B - Grading and Stabilization" and the provisions of the approved plan.
- All soil erosion and sediment control practices (BMP's) are to be constructed and/or installed prior to or at the initiation of grading in accordance with "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control", and the approved plan.
- A grading unit is the maximum contiguous area allowed to be graded at a given time and is limited to 20 acres. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the enforcement authority and/or the Washington County Soil Conservation District (approval authority). Unless otherwise specified and approved by the approval authority, no more than 30 acres cumulatively may be disturbed at a given time.
- For initial soil disturbance or re-disturbance, temporary or permanent stabilization must be completed within:
 - Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
 - Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.
- Stabilization must be completed within the 7 day stabilization requirement, as well as, Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization (as applicable).
- All constructed channels and swales shall have specified treatment installed to the design flow depth completed downstream to upstream as construction progresses. An installation detail shall be shown on the plans.
- All storm drain and sanitary sewer lines not in paved areas are to be mulched and seeded within 3 days of initial backfill unless otherwise specified on plans.
- Electric Power, telephone, and gas lines are to be compacted, seeded, and mulched within 3 days after initial backfill unless otherwise specified on plans.
- No slope shall be greater than 2:1.
- As required by Section B, of the Maryland Standards and Specifications for Soil Erosion and Sediment Control, "Adequate Vegetative Stabilization" is defined as 95 percent ground cover. The Washington County Soil Conservation District requires the project adhere to this for scheduling of the Final Site Closure Review, and/or release of the site for soil erosion and sediment control.

For sites 1.0 acre or more, the following are required:

- Maryland Department of the Environment, General Permit for Stormwater Associated with a Construction Activity, NPDES Permit Number MDR10, State Discharge Permit Number 0507, or an individual Permit.
- The Maryland Department of the Environment, (General/Individual Permit - Notice of Intent- NOI) application and permit shall be posted and/or available on-site at all times.
- During construction, all soil erosion and sediment control practices (BMP's) shall be inspected and recorded on the "Standard Inspection Form", "General Permit for Stormwater Associated with Construction Activity" per the Maryland Department of the Environment (General/Individual Permit - Notice of Intent- NOI).
- Following construction and release of the site for soil erosion and sediment control by the Washington County Soil Conservation District, i.e. all portions of a site have been permanently stabilized, and all stormwater discharges from construction sites that are authorized by the permit are eliminated, the authorized permittee shall submit the Maryland Department of the Environment, General/Individual Permit - Notice of Termination-NOT.

- STANDARD UTILITY NOTES:**
- Contractor to only open up length of trench that can be constructed and backfilled in one working day in paved areas.
 - Contractor to place excavated materials in a dump truck and hauled to an approved location to waste materials to paved areas.
 - Contractor to backfill trench with approved materials and stabilize disturbed areas the same working day.
 - In areas where the construction takes to place outside of the existing roadbed, Contractor to install silt fence along the downhill side of the trench before beginning construction and place excavated material from the trench on the uphill side.
 - If dewatering of the trench is required, Contractor to pump water to a filter bag to dewater.
 - Contractor to sweep streets of any debris or sediments caused by construction operations and dispose of at an approved location.
 - Contractor to stabilize all disturbed areas with seed & mulch or appropriate street repair.

TEMPORARY SEEDING SUMMARY

HARDNESS ZONE (FIGURE B.3): 6a & 6b		SEED MIXTURE (TABLE B.1)		SEEDING DATES		SEEDING DEPTHS		FERTILIZER RATE (10-20-20)		LIME RATE	
NO.	SPECIES	APPLICATION RATE (lb/ac)									
1	Barley	96	Zone 6a: Mar 15-May 31/ Aug 1-Sept 30 Zone 6b: Mar 1-May 15/Aug 1-Oct 15	1"				436 lb/ac (10 lb/1000 s.f.)		2 tons/ac (90 lb/1000 s.f.)	

PERMANENT SEEDING SUMMARY

HARDNESS ZONE (FIGURE B.3): 6a & 6b		SEED MIXTURE (TABLE B.1)		SEEDING DATES		SEEDING DEPTHS		FERTILIZER RATE (10-20-20)		LIME RATE	
NO.	SPECIES	APPLICATION RATE (lb/ac)									
6	Tall Fescue Perennial Ryegrass Blue Grass	56 7 7	Zone 6a: Mar 15-May 31/ Jun 1-Jun 15 Zone 6b: Mar 1-May 15/ May 16-Jun 15	1/4"-1/2"				45 lb/ac (1 lb/1000 s.f.)	90 lb/ac (2 lb/1000 s.f.)	90 lb/ac (2 lb/1000 s.f.)	2 tons/ac (90 lb/1000 s.f.)

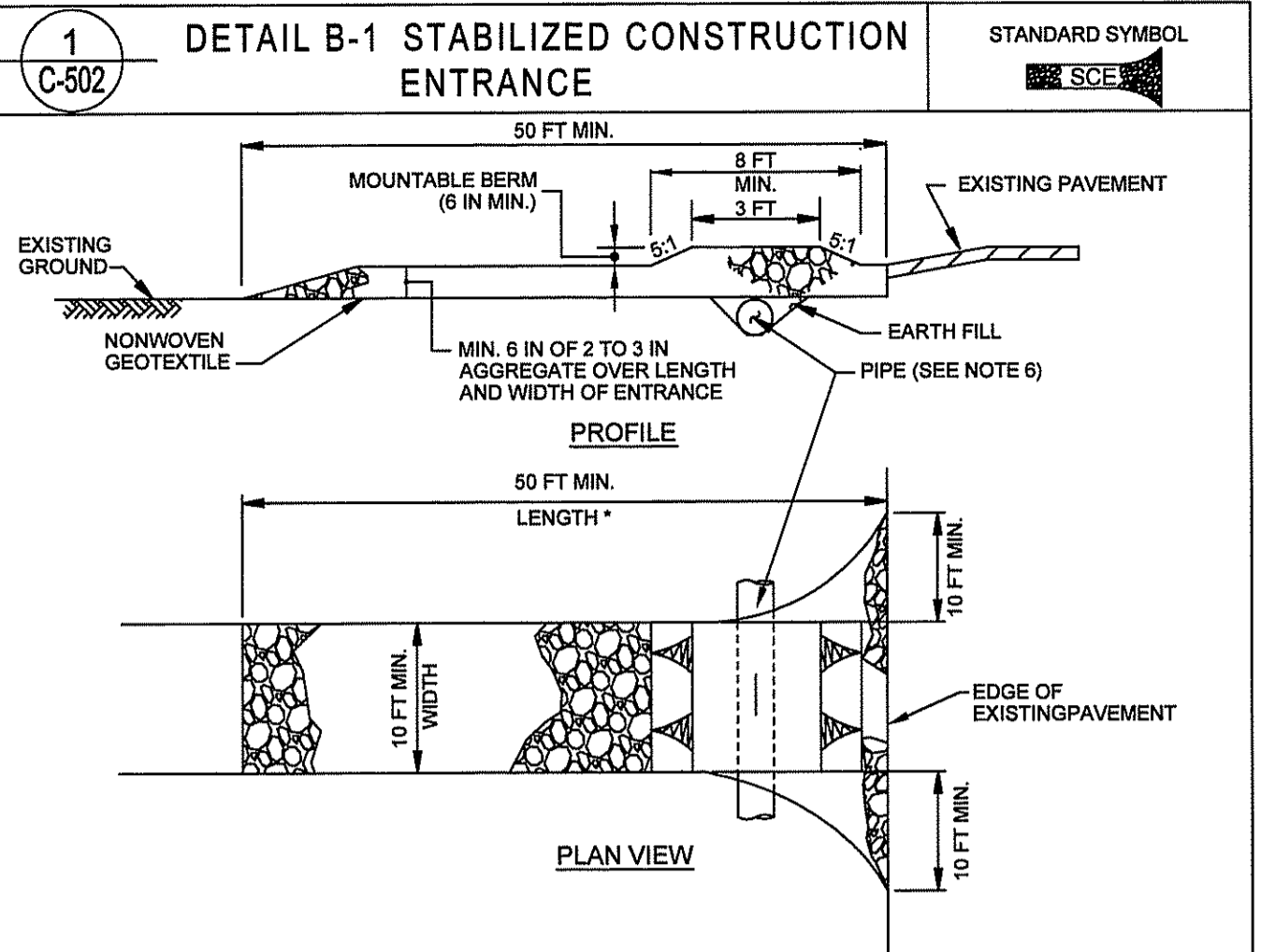
- SEQUENCE OF CONSTRUCTION**
- CONTRACTOR TO CONTACT FSA, INC. (301) 791-3650, FREDERICK COUNTY SOIL CONSERVATION DISTRICT (301) 695-2803 EXT. 3, MDE (301) 695-2859, AND THE CITY OF FREDERICK ENGINEERING (301) 600-1498 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF ANY EARTHWORK TO SCHEDULE A PRE CONSTRUCTION MEETING.
 - THIS PROJECT IS INTENDED TO BE CONSTRUCTED CONCURRENTLY WITH THE CITY OF FREDERICK'S LAKE DREDGING PROJECT. THE LAKE WILL BE DEWATERED AND WILL PROVIDE SEDIMENT CONTROL FOR THE MAJORITY OF THE PROJECT WORK AREA. ALL DISTURBED AREAS NOT DRAINING TO THE LAKE SHALL HAVE SEDIMENT EROSION CONTROL DEVICES INSTALLED PRIOR TO EARTH DISTURBANCE. ALL DREDGED MATERIAL TO BE HAULLED OFF TO A SITE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN.
 - CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AND FILTER LOG.
 - CONTRACTOR TO BEGIN STORM DRAIN INSTALLATION BEGINNING FROM THE DOWNSTREAM END AND WORKING UPSTREAM. INSTALL TEMPORARY SLOPE MATTING ONCE FINAL GRADES HAVE BEEN MET.
 - CONTRACTOR TO INSTALL NEW CONCRETE SIDEWALK ON SOUTHWEST SIDE OF CULLER LAKE AND REMOVE EXISTING WALKWAY AS NEEDED. STABILIZE ALL DISTURBED AREAS WITH SEED AND MULCH AFTER EXCAVATING OPERATIONS ARE COMPLETE. USE TEMPORARY SEEDING FOR AREAS LEFT EXPOSED FOR MORE THAN SEVEN (7) CONSECUTIVE DAYS.
 - CONTRACTOR TO CONTACT FSA, INC. (301) 791-3650 AND THE CITY OF FREDERICK ENGINEERING (301) 600-1498 AT LEAST THREE (3) DAYS PRIOR TO THE START OF THE GRAVEL WETLANDS INSTALLATION.
 - CONTRACTOR TO BEGIN GRAVEL WETLANDS INSTALLATION.
 - ONCE THE GRAVEL WETLANDS HAVE BEEN INSTALLED, CONTRACTOR TO COMPLETE THE SIDEWALK AND BOARDWALK AREAS. REMOVE ANY EXISTING WALKWAY STILL REMAINING. FURTHER STABILIZE ANY AREAS IMPACTED BY THE GRAVEL WETLANDS/SIDEWALK.
 - CONTRACTOR TO CONTACT FREDERICK COUNTY SOIL CONSERVATION DISTRICT (301) 695-2803 EXT. 3, AND THE CITY OF FREDERICK ENGINEERING (301) 600-1498 AT LEAST 5 DAYS PRIOR TO THE REMOVAL OF ANY SEDIMENT CONTROL FEATURES TO SCHEDULE A FINAL SITE CLOSE OUT REVIEW MEETING. CONTRACTOR TO GAIN FINAL APPROVAL FROM FCSDD PRIOR TO REMOVAL OF EROSION AND SEDIMENT CONTROLS.
 - REMOVE SEDIMENT AND EROSION CONTROL MEASURES, AND STABILIZE ACCORDINGLY.

NOTICE OF REQUIRED STORMWATER MANAGEMENT INSPECTIONS CONSTRUCTED WETLANDS

The following inspections are required to be performed by the Qualified Professional for the construction of any Wetland System. Additional inspections may be needed based on professional engineering judgment. Each inspection is required at the start of each stage.

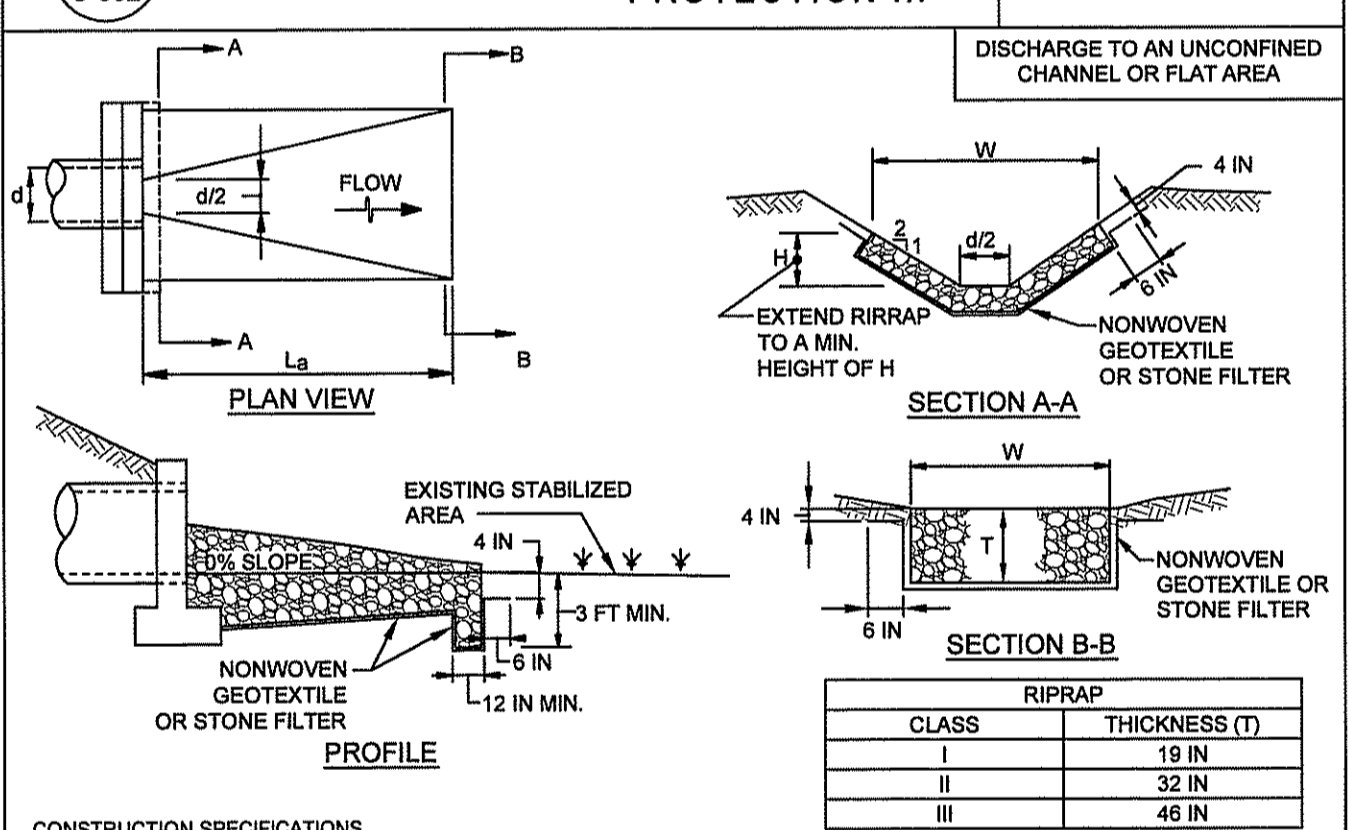
Inspection Item	Certifying Engineer	Date	City Inspector	Date
SITE PREPARATION AND EXCAVATION - Prior to excavation, verify sediment and erosion control features are in place to prevent sediment inflow. Verify all flagging required in the area for sensitive area protection. Verify grading is accurately staked-out and re-staked as needed. Verify objectionable material removed from immediate area.				
SPILLWAY WEIR - Verify footing excavated on stable subgrade.				
POND EXCAVATION - Verify pond bottom topography. Verify pond side slopes and bench widths and locations. Verify maintenance access location, width and slope.				
LANDSCAPING - Verify planting area scarified prior to planting. Verify nutrient amendments added to excavated zones. Verify pond drain open 3 days prior to planting. Verify location, size, type and number of planted landscape material. Verify wetland mulch used for seeding. Verify installation location, size, material type of fencing or other safety barriers.				

FREDERICK SOIL CONSERVATION DISTRICT
 Approved By: *Denny Rowland*
 District Manager
 Date: 3/31/14
 *SCD approval for sediment and erosion control is contingent upon issuance of all applicable regulatory permits.



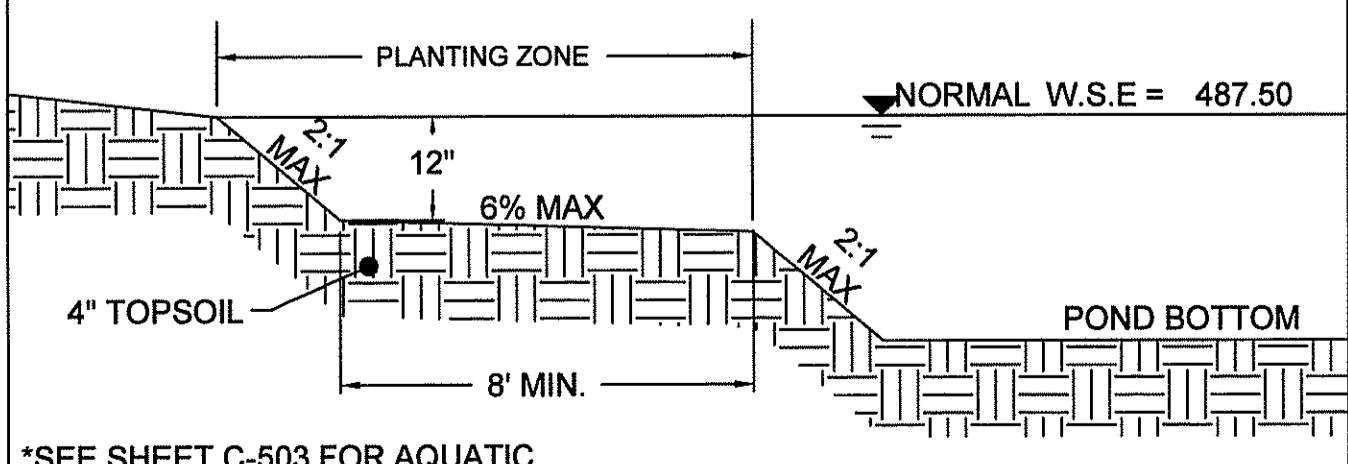
- CONSTRUCTION SPECIFICATIONS**
- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
 - PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 6:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
 - PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
 - PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
 - MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

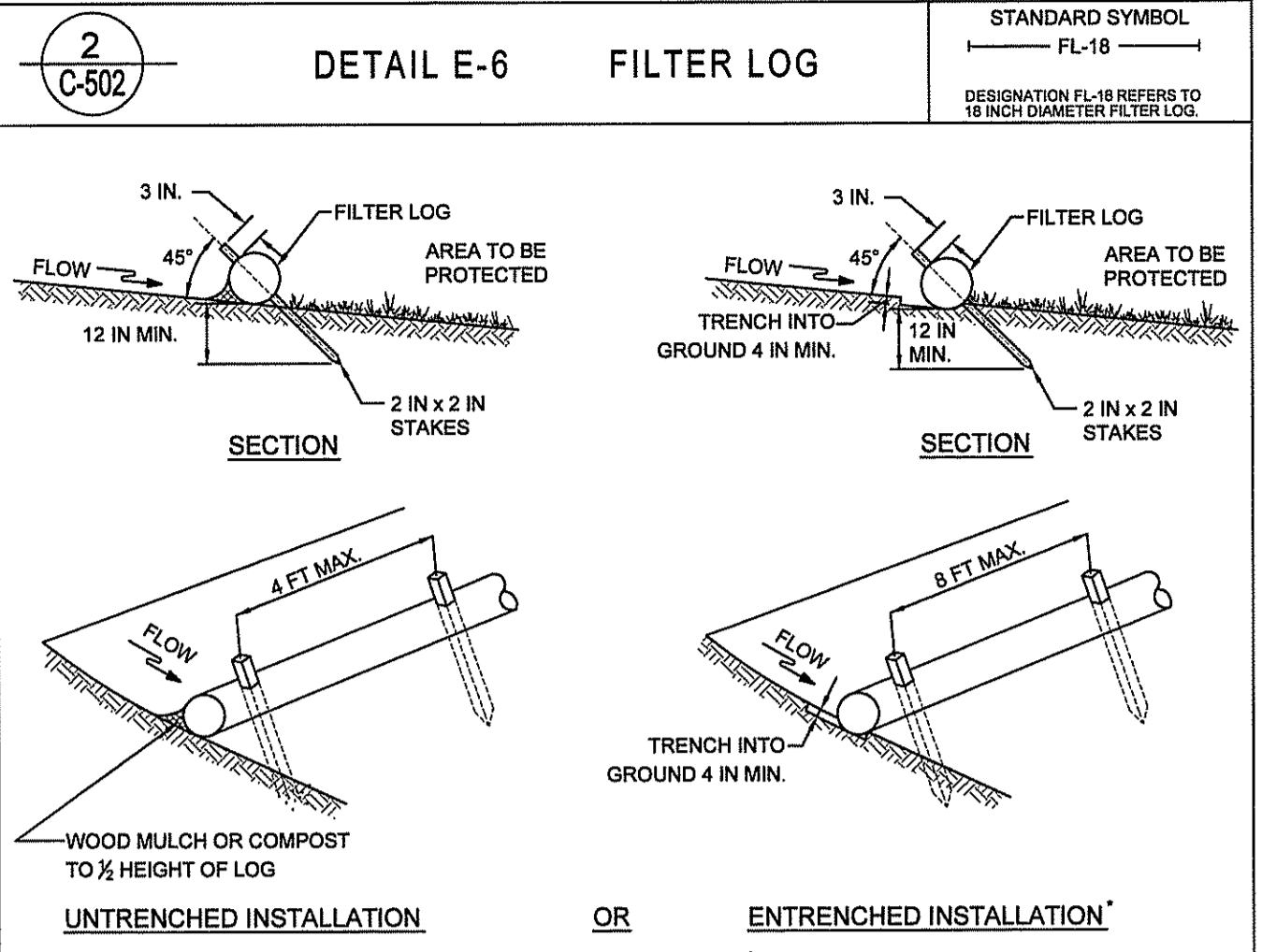


- CONSTRUCTION SPECIFICATIONS**
- RRAP AND STONE MUST CONFORM TO THE SPECIFIED CLASS.
 - USE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, AND PROTECT FROM PUNCTURING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE TOGETHER.
 - PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (3/4 TO 1 1/2 INCH MINIMUM STONE FOR 6 INCH MINIMUM DEPTH) AND RRAP TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
 - EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF RRAP.
 - CONSTRUCT RRAP OUTLET TO FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. PLACE AND COMPACT RRAP IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE RRAP IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY.
 - WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIDTH IS TWO TIMES THE DIAMETER OF THE OUTLET PIPE, AND EXTEND THE STONE UNDER THE OUTLET BY A MINIMUM OF 18 INCHES.
 - CONSTRUCT APRON WITH 0% SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STONE SO THAT IT BLENDS WITH EXISTING GROUND.
 - MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND RRAP DISLODGED RRAP. MAKE NECESSARY REPAIRS IMMEDIATELY.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

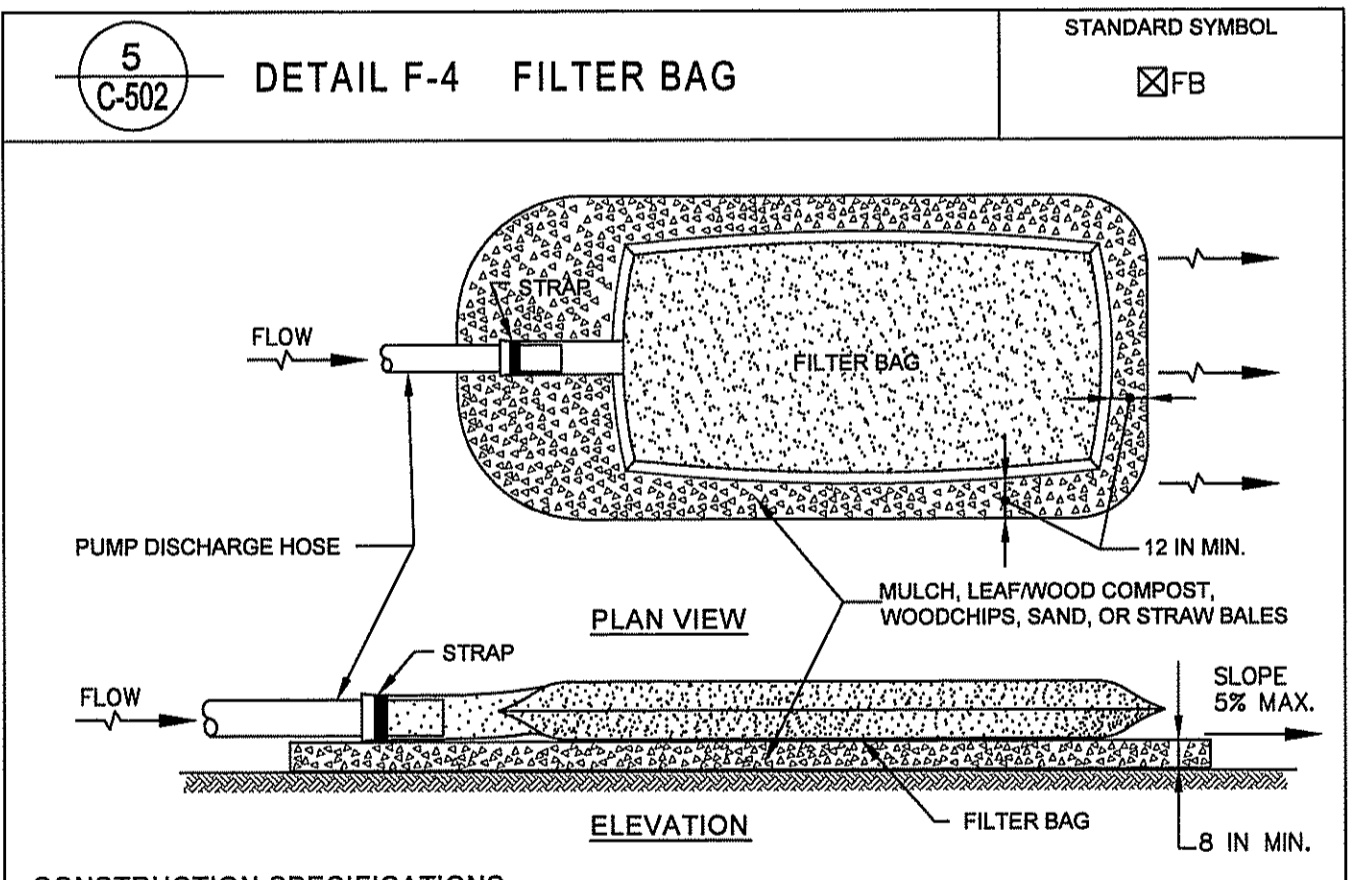


*SEE SHEET C-503 FOR AQUATIC BENCH PLANTING SCHEDULE
 NOT TO SCALE



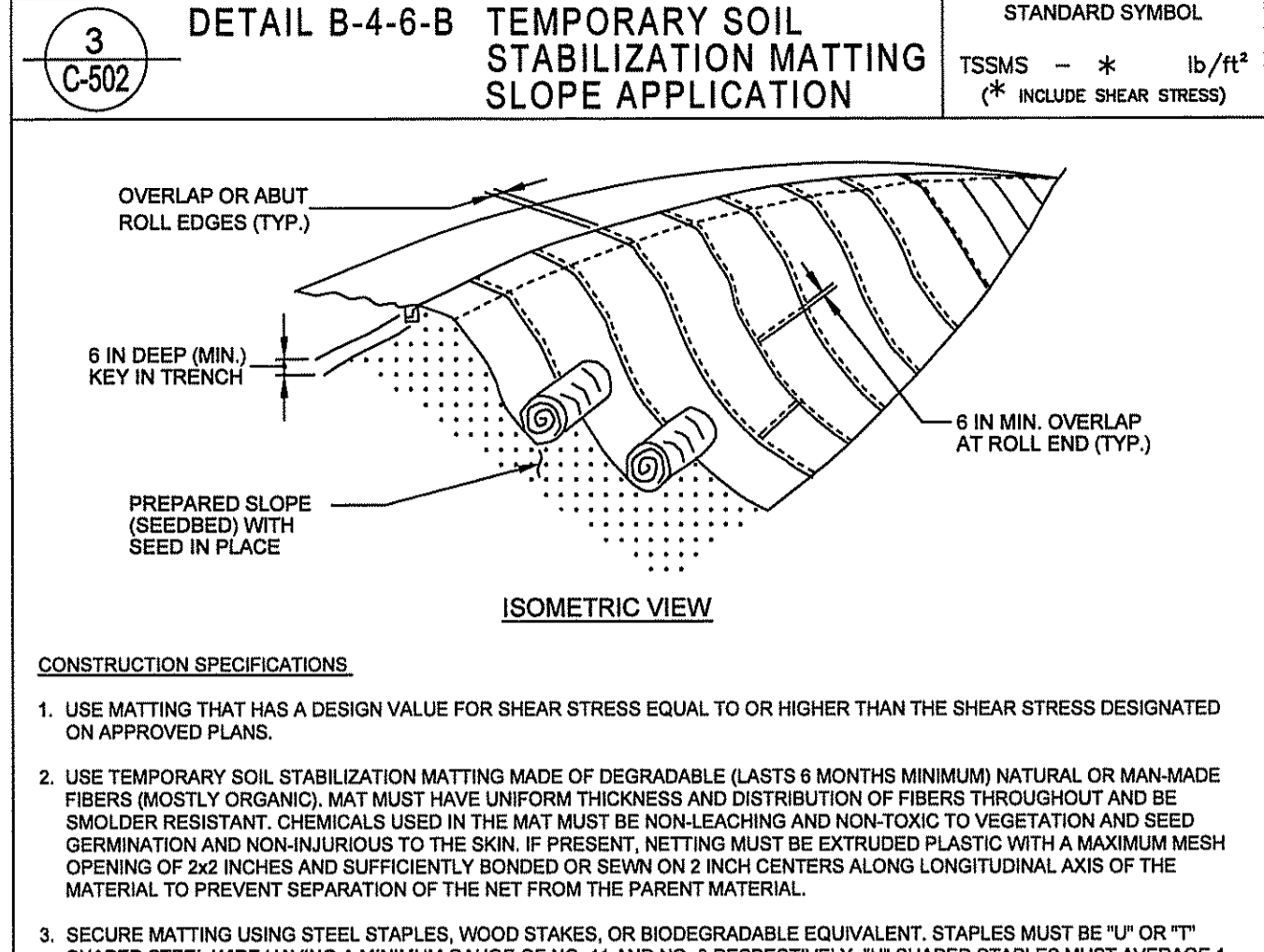
- CONSTRUCTION SPECIFICATIONS**
- PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LOG.
 - FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE WITH SECTION H-1 MATERIALS), OR OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
 - INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE WITH THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SLOPE CREATING A "V" SHAPED AT EACH END TO PREVENT BYPASS.
 - FOR UNTRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST ON UPHILL SIDE OF THE SLOPE ALONG LOG.
 - STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENGTH OF LOG OR TRENCH LOG INTO GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FEET OR CLOSER.
 - USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND OF SUFFICIENT LENGTH TO ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRUDING ABOVE LOG.
 - WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM AND STAKE.
 - REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF 1/2 THE EXPOSED HEIGHT OF LOG AND REPLACE MULCH. REPLACE FILTER LOG IF TORN, REINSTALL FILTER LOG IF UNDERMINING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER LOGS. FOR PERMANENT APPLICATIONS, ESTABLISH AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



- CONSTRUCTION SPECIFICATIONS**
- TIGHTLY SEAL SLEEVE UNDER THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
 - PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 0% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
 - CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. USE THE BAG FILL VALUES WITH SEDIMENT, REDUCE PUMPING RATE.
 - REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICH NEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN A 12 INCH WIDE APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
 - USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SLEEVE SIZE TO ACCOMMODATE A MAXIMUM 1 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:
- | | | |
|-----------------------------------|-----------------------------|-------------|
| GRAB TENSILE | 250 LB | ASTM D-4632 |
| PUNCTURE | 150 LB | ASTM D-4633 |
| FLOW RATE | 70 GALS/MIN/FT ² | ASTM D-4491 |
| PERMITTIVITY (SEC ⁻¹) | 1.2 SEC ⁻¹ | ASTM D-4491 |
| UV RESISTANCE | 70% STRENGTH @ 500 HOURS | ASTM D-4355 |
| APPARENT OPENING SIZE (AOS) | 0.15-0.18 MM | ASTM D-4751 |
| SEAM STRENGTH | 90% | ASTM D-4632 |

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



- CONSTRUCTION SPECIFICATIONS**
- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
 - USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SWOOSH RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2/32 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
 - SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 3/8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1 1/2 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
 - PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
 - UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
 - OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
 - KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
 - STAPLE/STAKE MAT IN A STAGGERED PATTERN ON A FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
 - ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

CHECKLIST FOR REQUIRED INSPECTION

TYPE OF INSPECTION	DEVELOPER ENGINEER APPROVAL/DATE	SEA INSPECTION/ DATE
1) PRECONSTRUCTION MEETINGS		
2) COMPLETION OF SEDIMENT CONTROL MEASURES (IF USING BASIN SEE #6 BELOW)		
3) PRIOR TO MODIFICATION OR REMOVAL OF SED. CNTRL		
4) INFILTRATION SYSTEMS A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. INFILTRATION AREA PROTECTED FROM SEDIMENTATION C. DIMENSIONS D. FILTERING MATERIAL (TYPE/DEPTH) E. FILL MATERIAL F. SIZE, PLACEMENT, TYPE OF PIPING (IF APPLICABLE) G. OBSERVATION WELL H. COVER / STABILIZATION		
5) OPEN CHANNEL FLOW ATTENUATION A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. CROSS SECTION CONFORMANCE C. MATERIAL (TYPE/SIZE) D. STABILIZATION		
6) RETENTION / DETENTION STRUCTURES (BASIN/PONDS) A. SUBGRADE PREPARATION 1. CORE TRENCH 2. SUITABLE FILL 3. COMPACTION B. EMBANKMENT CONSTRUCTION 1. CORRECT MATERIAL ONSITE 2. SIZING 3. ANTI-SLEEP COLLARS 4. INSTALLATION / BACKFILL C. CONCRETE INLET STRUCTURES 1. FOOTER EXCAVATION AND SIZE 2. REINFORCING MATERIAL (TYPE, SIZE, PLACEMENT) 3. WEIR POUR 4. FORM STRIP AND FINISHING E. IMPOUNDING AREA 1. LOW FLOW CHANNELS 2. DEWATERING DEVICE 3. EMERGENCY SPILLWAY F. OUTFALL AREA (LEVEL SPREADER, RIPRAP CHANNEL, ETC.) G. VEGETATION STABILIZATION H. MISCELLANEOUS		

YOU MUST NOTIFY THE DIVISION OF ENVIRONMENTAL COMPLIANCE SECTION (ECS) AT (301) 600-1132 BEFORE 9:00 AM 24 HOURS PRIOR TO THE REQUIRED INSPECTION. FAILURE TO NOTIFY THE AGENCY WILL RESULT IN A STOP WORK ORDER OR OTHER PENALTIES AS OUTLINED IN FREDERICK COUNTY CODES.

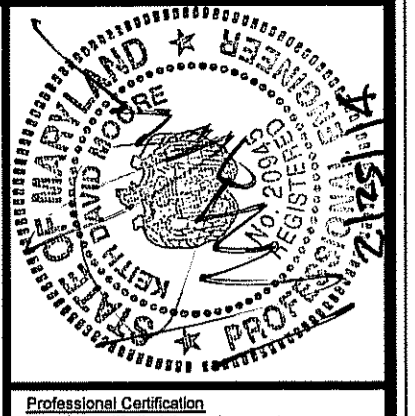
****NOTICE****
 THIS LIST IS FOR SEQUENCE OF CONSTRUCTION ONLY. FREDERICK COUNTY ASSUMES NO RESPONSIBILITY OR LIABILITY FOR IMPROPER INSTALLATION OF ANY ITEM ON THIS CHECKLIST. THE AGENCY RECOMMENDS THAT A PROFESSIONAL ENGINEER BE PRESENT FOR EACH OF THE REQUIRED INSPECTIONS.

CITY OF FREDERICK
 APPROVED: *For Const.*
 DATE: 2/28/14
 CITY ENGINEER: *John P. E.*

Construction approval by City Engineer valid for a period of two (2) years from date of approval. If a bonafide attempt to commence construction has not begun in this 2 year period, City approval shall be null and void.

All approvals are subject to the water allocation ordinance and in no way imply allocation of water. The owner/developer proceeds with any improvements at his/her sole risk.

REV. NO.	REVISION DESCRIPTION (FOR REVISIONS TO PREVIOUSLY APPROVED PLANS)	CONSULTANT: DATE AND INITIAL	CITY ENGINEER: DATE AND INITIAL



Professional Certification
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 2886, Expire Date 08-30-2016.

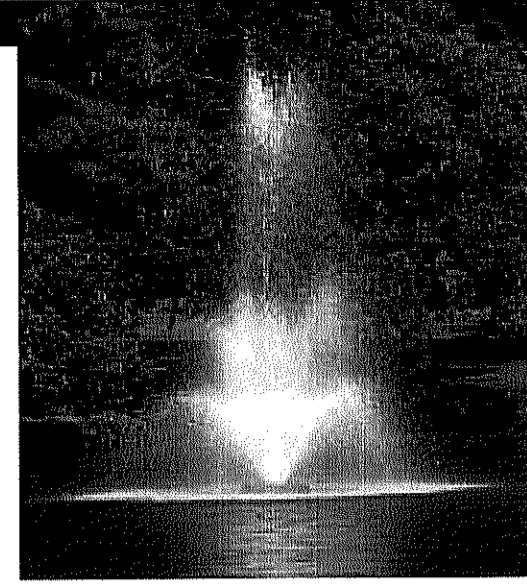
FREDERICK & SEIBERT & ASSOCIATES, INC.
 CIVIL ENGINEERS - SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS
 121 NORTH BENNETT STREET, FREDERICK, MARYLAND 21702
 20 WEST BALTIMORE STREET, GREENCASTLE, PENNSYLVANIA 17225

CULLER LAKE
 situate along the southwest corner of West 2nd Street and West College Terrace
 City of Frederick
 FREDERICK COUNTY, MARYLAND
 CLIENT: City of Frederick, c/o Ron Myers
 121 North Bennett St. Frederick, MD 21701
 (301) 530-1822

PROJECT NO: 6314
 CAD DWG FILE:
 DWN BY: TMB
 DATE: 06-14-2013
 CHK BY: DATE:
 TAX MAP: ELECTION DIST.
 SCALE: NTS
 SHEET TITLE:
SEC DETAILS & NOTES
 C-502
 SHEET 6 OF 7

TRISTAR AERATING FOUNTAIN

PUMPING CAPACITIES: The aerator shall produce a tri-tier spray pattern; a geyser type center spray surrounded by two fan shaped patterns. Inner spray dimensions are 12 feet or 4 meters in height and 2 feet or 0.6 meters in diameter. Middle spray dimensions are 7 feet or 2.4 meters in height and 10 feet or 3 meters in diameter. Outer spray dimensions are 4 feet or 1.2 meters in height and 17 feet or 5.2 meters in diameter. The primary pumping rate of the unit is 210 GPM or 45.3 m³/hr and the secondary or induced circulation rate is 2100 GPM m³/hr.



FLOAT: The float shall be made of seamless, one-piece high-density polyethylene plastic, filled with high density closed cell polyurethane foam. The float shall be capable of providing full floatation if the shell is punctured or cracked. The float shall have protective pockets for lights and handles molded into the bottom for easy handling. Metal floats or those with an internal void for additional ballast are not acceptable.

IMPELLER: The impeller shall be injection molded from a polyurethane isoplast material with a brass insert. All Aerating Fountain impellers and pumping chambers are interchangeable.

MOTOR: The motor shall be a 2 HP, 230 volt, 1 phase, 60 Hz oil-cooled, submersible motor operating at 3450 RPM or 50 Hz operates at 2875 RPM. The service factor shall be 1.15 except for 5HP 1Ph which shall be 1.00. The motor shall operate in a reservoir of Otterbine oil for continuous lubrication of bearings and for efficient transfer of heat through the motor housing wall. Top mounted motors and water-lubricated motors are not acceptable. The rotor shall be dynamically balanced. The winding (stator) wires shall be covered with class F rated insulation designed for complete immersion in oil. The motor shall be attached to a thermoplastic motor base plate. The motor shall be protected against oil and water leakage by a combination of rotary seals, stationary seals, and molded rubber "O" rings. The rotary seal shall be accessible without removing the motor base plate. Motor shall be serviceable.

MOTOR HOUSING: The external motor housing shall be a canister formed from deep drawn 316 stainless steel. The motor base plate shall be constructed of 420 Valox thermoplastic. A Valox boss will provide support and protection for the male electrical connector.

FASTENERS: All fasteners are to be metric and type 304 or 316 stainless steel.

ELECTRICAL CONNECTORS: The electrical connectors shall consist of a receptacle and a plug constructed of non-conductive polymers. The system shall create a vacuum seal when connected and have a threaded nut system as a backup. The plug shall have a keyway and be threaded into the motor base plate. The connector system shall be ETL and UL approved.

UNDERWATER POWER CABLE: The power cables shall be type SOOW specifically designed for underwater use. The conductors shall be flexible, stranded bare copper 12, 10 or 8 gauge, triple insulated to resist moisture, cracking, and softening. The outer jacket of the cable shall be a black CPE material. All underwater connections shall be vulcanized. Power cable shall be able to be furnished in spliced lengths up to one thousand feet (305 m) if necessary.

POWER CONTROL CENTER: The electrical control components shall be mounted in a NEMA 3R enclosure with an externally mounted disconnect switch and a HAND - OFF - AUTO selector switch. The electrical system for units operating on 115, 208-230 volt, single or three phase, shall include a circuit breaker and a GFCI (Ground Fault Circuit Interrupter). To operate the GFCI on 208-230volt systems a grounded neutral

1 C-503 AERATING FOUNTAIN OR ENG. APPROVED EQUAL

must be present or an optional control transformer may be supplied. The electrical system for units operating on 400 and 460 volt shall include fuses. Fuses, if used, shall be dual-element type, mounted in three pole fuse blocks, and with spring reinforced clips. For all units the motor starter shall be a combination magnetic full-voltage non-reversing type, 600 volts maximum, with bimetallic, ambient compensated overload relays. The electrical system shall include a lightning arrester, rated for a maximum of 100,000 amperes discharge for three phase and a maximum of 60,000 amperes discharge for single phase. The system will include a 24-hour timer.

TESTING:
A. Safety: The aerator system shall be tested and approved as a unit. Separate component testing not allowed. Unit must be tested by ETL, ETL-C, CE, UL or other accredited testing facilities.

WARRANTY: Warranty shall be five years.

ACCEPTABLE MANUFACTURER: This unit shall be an OTTERBINE OBT10 Model, 2 horsepower manufactured by OTTERBINE/BAREBO, INC., 3840 MAIN ROAD EAST, EMMAUS, PA 18049 U.S.A. PH: (610) 965-6018. www.otterbine.com

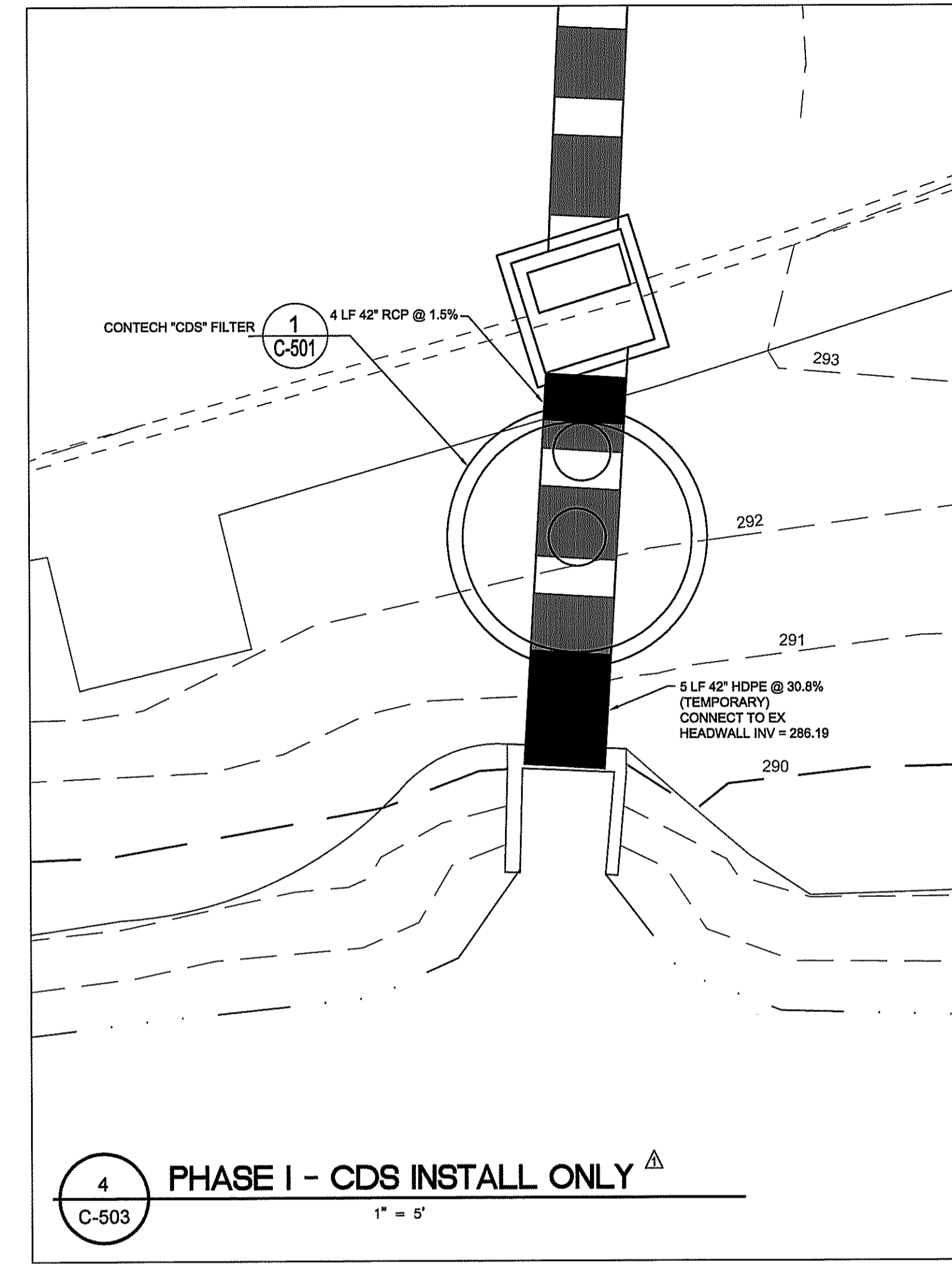
* OR ENGINEER APPROVED EQUAL



Anchoring/mooring the Otterbine Unit is simple. Each owner's manual provides the steps necessary to securely place your unit in the waterway. U.S. Package: Unit, NEMA 3R Power Panel (with timer, GFCI (except 460V), breaker, surge arrester, HRC switch and thermal overload protection), 50' ft. of SOOW cable, 1/2" Package: Unit and 15m of cable (no cable on CE). Line drawing of the 3HP TriStar unit, for a more detailed diagram of this and other models visit www.caddetails.com

HP	Voltage Phase/Hz	Motor RPM	Running Amp Draw	Spray Dimensions In Ft. (m)			*Pumping Rate GPM/m ³ /hr	Min. Oper. Depth	Maximum Cable Runs (in feet)	**Ship Weight 60Hz-lbs 50Hz dim. kg
				Inner Height/Width	Middle Height/Width	Outer Height/Width				
1	115/1/60	3450	14	8ft/2ft	5ft/9ft	3ft/13ft	150 GPM	30"	n/a	175 275 150 lbs
	230/1/50	2875	7.2	3m/6m	1.8m/2.7m	.9m/4m	32.4 m ³ /hr	75cm	385 610 975	68 kg
2	230/1/60	3450	8.3 - 7.5	8ft/2ft	5ft/9ft	3ft/13ft	150 GPM	30"	385 615 985	150 lbs
	230/1/50	2875	12.6	4m/6m	2.4m/3m	1.2m/5.2m	45.3 m ³ /hr	75cm	220 350 565	68 kg
3	230/1/60	3450	13.7-12.4	12ft/2ft	7ft/10ft	4ft/17ft	210 GPM	30"	210 340 535	150 lbs
	230/1/50	2875	13.5	4.6m/9m	3.2m/3.8m	2m/6.1m	59.3 m ³ /hr	75cm	n/a 330 520	70 kg
4	230/1/60	3450	15.5 - 14	16ft/3ft	11ft/13ft	7ft/23ft	275 GPM	30"	n/a 315 500	155 lbs
	230/3/60	3450	9.7 - 8.6	16ft/3ft	11ft/13ft	7ft/23ft	275 GPM	30"	380 610 965	155 lbs
5	400/3/50	2875	4	4.6m/9m	3.2m/3.8m	2m/6.1m	59.3 m ³ /hr	75cm	1375 2200 3500	70 kg
	460/3/60	3450	4.3	16ft/3ft	11ft/13ft	7ft/23ft	275 GPM	30"	1600 2525 4000	155 lbs
5	230/1/60	3450	23	19ft/3ft	13ft/15ft	8ft/27ft	400 GPM	30"	n/a n/a 370	160 lbs
	230/3/60	3450	15.1 - 13.4	19ft/3ft	13ft/15ft	8ft/27ft	400 GPM	30"	235 375 590	160 lbs
5	400/3/50	2875	4	4.6m/9m	3.2m/3.8m	2m/6.1m	59.3 m ³ /hr	75 cm	785 1275 2000	73 kg
	460/3/60	3450	7.2	19ft/3ft	13ft/15ft	8ft/27ft	400 GPM	30"	925 1475 2350	160 lbs

*Induced circulation is 10x the pumping rate **Package includes unit, cable and power control center. 50Hz applications do not receive power panel. 415 and 575 volt units available upon request. Pumping rates may vary due to voltage, elevation and relative humidity.



4 PHASE I - CDS INSTALL ONLY
1" = 5'

The New American Pond
'Green Solutions for Water Pollution'

Modular Floating Wetlands



- Pollution Removal
- Beautification
- Wildlife Habitat

Our new and improved Modular Floating Wetlands have been designed to improve shipping, handling, installation, and to be horticulturally sound. Our modular floating wetlands are comprised of three components including bio matrix foam, closed cell foam, and coir inserts.

- The bio matrix foam (recycled plastic) has improved the structural quality and longevity of the product while increasing surface area for microbial activity.
- The closed cell foam has been upgraded to improve the integrity of the product.
- The coir inserts allow for each modular unit to be pre grown meeting the needs of the customer.

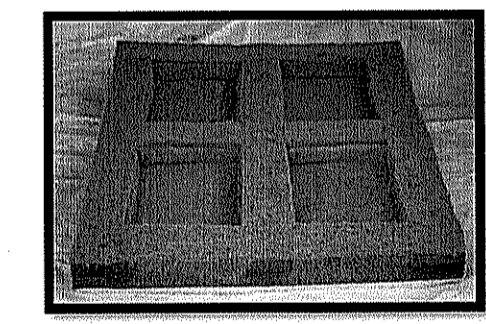
We have created three different shapes to best suite your needs. Our modules can be connected easily to create any shape that is desired. Floating wetlands are available with or without plants.

NOTE:
FLOATING WETLANDS TO BE ANCHORED TO THE LAKE BOTTOM USING 'DUCK BILL' ANCHORS & 12 FT OF STAINLESS STEEL CABLE & CONNECTORS

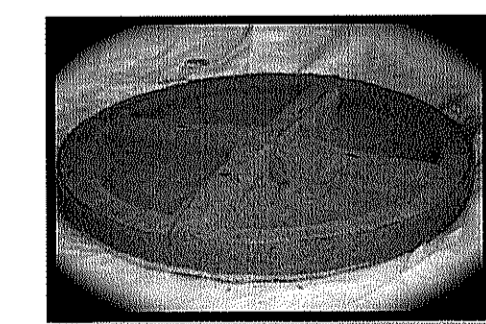
Charleston Aquatic Nurseries, Inc. 1-800-566-3264 toll free
www.floatingwetlands.com
Maryland Aquatic Nurseries, Inc. 1-877-736-1807 toll free
Maryland@FloatingWetlands.com

2 C-503 FLOATING WETLANDS OR ENG. APPROVED EQUAL

The New American Pond
'Green Solutions for Water Pollution'



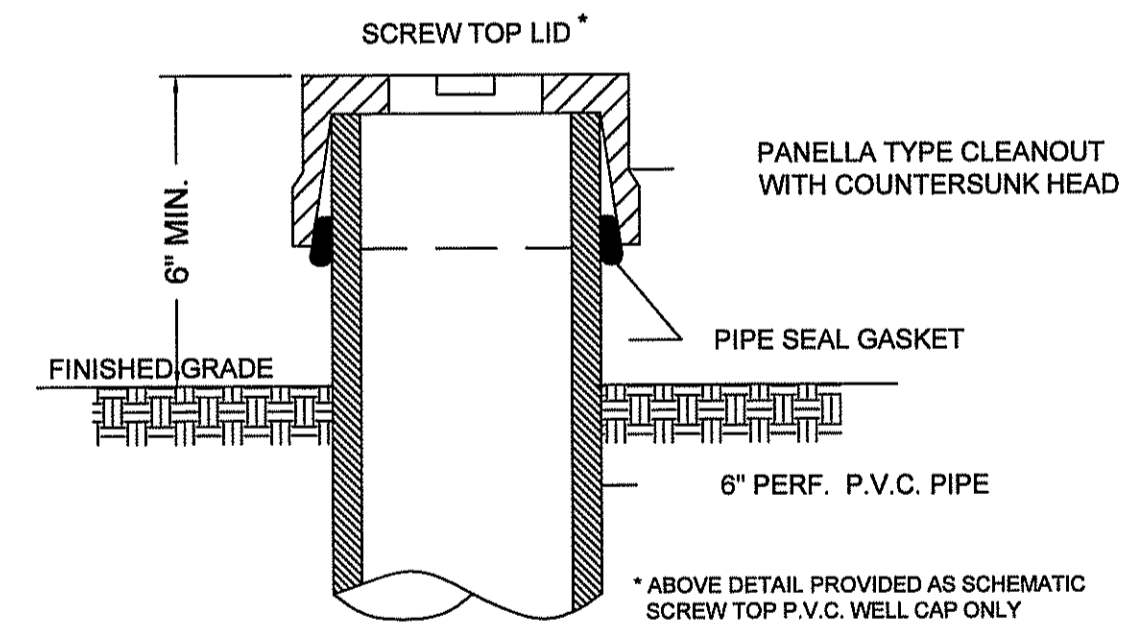
Rectangular modular
36"x 48"x3"
Dealer Price 203.00
Installed Price 269.99



Full circle modular
48"x48"x3"
Dealer Price 195.76
Installed Price 260.36

Inserts	Dealer Price	Installed Price
Replacement 18" quarter circle coir insert	7.15	12.25
Replacement 18" x 12" rectangle coir insert	6.85	11.75
Plant Mix for quarter circle coir insert	25.00	33.25
Plant Mix for rectangle coir insert	20.00	26.60

Charleston Aquatic Nurseries, Inc. 1-800-566-3264 toll free
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Maryland Aquatic Nurseries, Inc. 1-877-736-1807 toll free
Maryland@FloatingWetlands.com



EACH OBSERVATION WELL/CLEANOUT SHALL INCLUDE THE FOLLOWING:

1. FOR AN UNDERGROUND FLUSH MOUNTED OBSERVATION WELL/CLEANOUT, PROVIDE A TUBE MADE OF NON-CORROSIVE MATERIAL, SCHEDULE 40 OR EQUAL, AT LEAST 3 FEET LONG WITH AN OUTSIDE DIAMETER OF AT LEAST 6 INCHES.
2. THE TUBE SHALL HAVE A FACTORY ATTACHED CAST IRON OR HIGH IMPACT PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING SCREW TOP LID. THE SCREW TOP LID SHALL BE CAST IRON OR HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRA-VIOLET RAYS.

3 C-503 OBSERVATION WELL

SUBMERGED GRAVEL WETLAND PLANTINGS

SHRUBS	GRASSES/PERENNIALS
Buttonbush / Cephalanthus occidentalis	Blue Flag Iris / Iris Versicolor
Winterberry Holly / Ilex Laevigata	Duck Potato / Sagittaria latifolia
Virginia Willow / Itea Virginica	Flowering Bulrush / Scirpus Validus
	Soft Rush / Juncus Effusus
	Shallow Sedge / Carex Lurida
	Lobelia / Lobelia Dortmanna

NOTES:
Shrubs to be planted 6' O.C. Grasses/Perennial plugs to be planted at random throughout the wetlands.
Planting list subject to change by owners preference.

CITY OF FREDERICK
APPROVED: For Const
DATE: 2/28/14
CITY ENGINEER: [Signature]

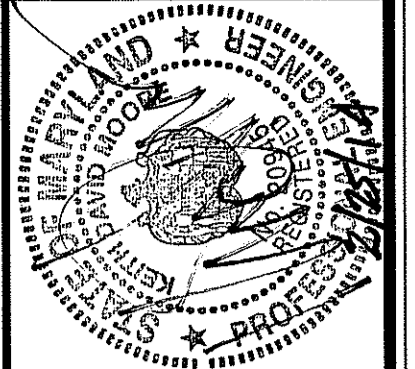
Construction approval by City Engineer valid for a period of two (2) years from date of approval. If a bonafide attempt to commence construction has not begun in this 2 year period, City approval shall be null and void.

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REV. NO.	REVISION DESCRIPTION (FOR REVISIONS TO PREVIOUSLY APPROVED PLANS)	CONSULTANT: DATE AND INITIAL	CITY ENGINEER: DATE AND INITIAL

Scientific Name	Common Name	Depth Zone	Cont. Size	Typ. Spacing	Quantity
<i>Eleocharis palustris</i>	Common Spikerush	4-6"	plug	12" oc	2416
<i>Orontium aquaticum</i>	Golden Club	0-5"	plug	12" oc	1812
<i>Heteranthera dubia</i>	Grassleaf Mudplantain	0-12"	plug	12" oc	1812
<i>Justicia americana</i>	Water Willow	4-6"	plug	12" oc	1812
<i>Menyanthes trifoliata</i>	Buckbean	4-6"	plug	12" oc	1208
<i>Hydrocotyle umbellata</i>	Water Pennywort	0-1"	plug	12" oc	1208
<i>Mentha aquatica</i>	Aquatic Mint	0-2"	plug	12" oc	604
<i>Proserpinaca palustris</i>	Water Mermaid	0-12"	plug	12" oc	604
<i>Polygonum amphibium</i>	Water Smartweed	0-12"	plug	12" oc	604

5 C-503 AQUATIC BENCH PLANTINGS



Professional Certification
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20961 - Expiration Date: 08/25/2015

FREDERICK SEIBERT & ASSOCIATES, INC.
© 2013
CIVIL ENGINEERS - SURVEYORS - LANDSCAPE ARCHITECTS - LAND PLANNERS
428 SOUTH BOTTOMS STREET, HAGERSTOWN, MARYLAND 21740
20 WEST BALTIMORE STREET, GREENCASTLE, PENNSYLVANIA 17225

DATE:	1/14/14
DESCRIPTION:	REVISED PER 01/14 MEETING COMMENTS

CULLER LAKE
situate along the southwest corner of West 2nd Street and West College Terrace
City of Frederick
FREDERICK COUNTY, MARYLAND
CLIENT: City of Frederick, c/o Roel Myers
121 North Beritz St., Frederick, MD 21701
(301) 400-1602

PROJECT NO: 6314
CAD DWG FILE:
DWN BY: TMF
DATE: 06-14-2013
CHK BY: [Signature]
DATE:
TAX MAP: [Signature]
ELECTION DIST:
SCALE: NTS
SHEET TITLE:
MISC DETAILS
C-503 SHEET 7 OF 7