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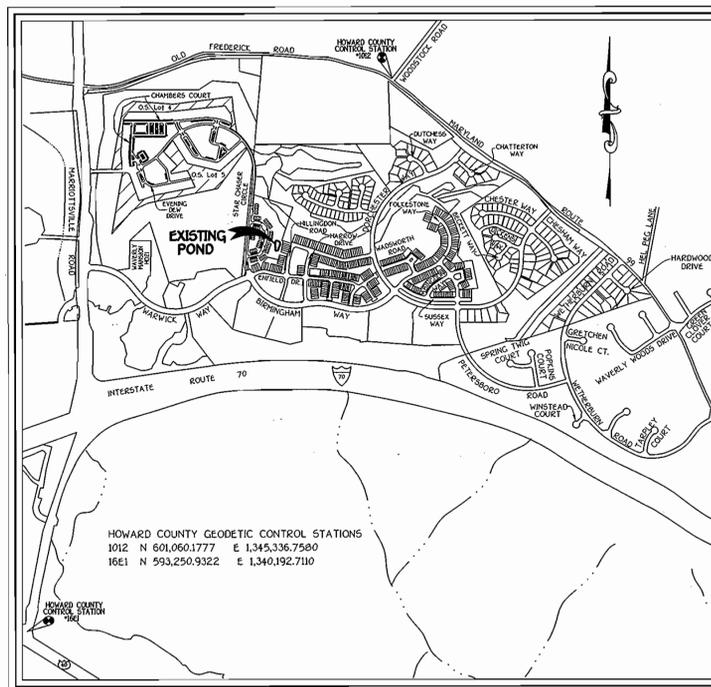
SITE DEVELOPMENT PLAN GTW'S WAVERLY WOODS

SECTION 13
BULK PARCEL 'F'

"WET POND REHABILITATION"

ZONED: R-5A-8

TAX MAP No. 16 GRID No. 5 PARCEL No. 20



VICINITY MAP
SCALE: 1" = 1,200'

GENERAL NOTES

1. SUBJECT PROPERTY ZONED R-5A-8 IN ACCORDANCE WITH ZB 929M
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
4. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
5. THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: F-04-104, 5-03-06, SDP-06-79, ZB 929M.
6. TOTAL AREA OF R-5A-8 ZONED PROPERTY = 9.799 AC.
7. TOTAL AREA OF SUBMISSION = 9.799 AC.
8. TOTAL AREA OF FLOODPLAIN = N/A
9. TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.000 AC.
10. NET TRACT AREA = 9.799 AC.
11. TOTAL NUMBER OF BUILDABLE UNITS = N/A
12. TOTAL AREA OF ROADWAY DEDICATION = N/A
13. THE PROPERTY SHOWN IS LOCATED IN THE METROPOLITAN DISTRICT.
14. TOPOGRAPHIC INFORMATION ESTABLISHED AT 2 FOOT CONTOUR INTERVALS BASED ON AERIAL PHOTOGRAPHIC CONTOUR MAPPING OR ABOUT NOVEMBER 2000 PROVIDED BY HARFORD AERIALS.
15. BOUNDARY OUTLINE IS BASED ON A FIELD MONUMENTED SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. ON OR ABOUT AUGUST 1990.
16. THE WETLANDS DELINEATION AND FOREST STAND DELINEATION STUDY WAS PREPARED BY EXPLORATION RESEARCH, INC. AND WAS COMPILED SEPTEMBER 5, 1991. AN UPDATED STUDY IS PREPARED BY ECO-SCIENCE PROFESSIONALS DATED OCTOBER 2002. THE TOTAL AREA OF EXISTING FOREST FROM THE F.S.D. PLAN LOCATED WITHIN THIS SITE IS 2.49 AC. OF FSD NO. 4 AND 3.00 AC. OF FSD NO. 7 (SEE F-04-50)
17. THIS PLAN MUST COMPLY WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE 2004 ZONING REGULATIONS.
18. STORM WATER MANAGEMENT, QUANTITY AND QUALITY FOR THIS WAVERLY WOODS PROJECT IS PROVIDED BY THE EXISTING SWM POND NO. 1 (RETENTION POND) CONSTRUCTED UNDER "GTW'S WAVERLY WOODS, SECTION 4, AREA 2 IF 95-174" FOR ALL THE PATAPSCO RIVER DRAINAGE AREA. FOR THAT PORTION OF THIS SITE DRAINING INTO THE LITTLE PATUXENT RIVER, WATER QUANTITY MANAGEMENT IS OVER COMPENSATED. THIS FACILITY IS NOT INTENDED FOR SWM USE. THIS IS A DAM SAFETY POND REPAIR IMPROVEMENT FOR THE COMMUNITY.
19. THE HORIZONTAL AND VERTICAL DATUM SHOWN ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 1012 AND 1061 WERE USED FOR THIS PROJECT.
20. EXISTING UTILITIES ARE BASED ON SDP-06-079 AND FINAL PLAN F-06-116.
21. THERE IS NO FLOODPLAIN ON THIS AREA OF THE WAVERLY WOODS PROJECT.
22. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
23. "THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL". FINANCIAL SURETY FOR THE 15 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$3,300.00.

THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PkE ELICOTT CITY, MARYLAND 21042 (410) 461-2000			
NO.	REVISION	DATE	

ENGINEER'S CERTIFICATE

I Certify That The Pond Construction, Erosion And Sediment Control Represents A Practical Plan Based On My Personal Knowledge Of The Site Conditions. This Plan Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District. I Have Supervised The Construction Of This Project And Her/She Must Engage A Registered Professional Engineer To Supervise The Construction Of This Project. I Shall Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Within 30 Days Of Completion.

Signature: *[Signature]* Date: 5/23/07

DEVELOPER'S CERTIFICATE

I/We Certify That All Development And/Or Construction Will Be Done According To These Plans. And That Any Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of The Environment Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Shall Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days Of Completion. I Also Authorize Payment For On-Site Inspections By The Howard Soil Conservation District.

Signature: *[Signature]* Date: 5/23/07

These Plans Have Been Reviewed For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction, Soil Erosion And Sediment Control.

Signature: *[Signature]* Date: 4/13/07
U.S.D.A.-Natural Resources Conservation Service

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.

Signature: *[Signature]* Date: 6/13/07
Howard SCD

OWNER/DEVELOPER

WAVERLY WOODS DEVELOPMENT CORPORATION
C/O LAND DESIGN AND DEVELOPMENT, LLC
5300 DORSET HALL DRIVE
SUITE 102
ELICOTT CITY, MARYLAND 21042
443-367-0422

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: *[Signature]* Date: 6/18/07
Chief, Division of Land Development

Signature: *[Signature]* Date: 6/13/07
Chief, Development Engineering Division

Signature: *[Signature]* Date: 6/24/07
Director - Department of Planning and Zoning

PROJECT	SECTION	UNIT NO'S.			
GTW'S WAVERLY WOODS	13	N/A			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
17217-17223	5	R-5A-8	16	THIRD	
WATER CODE	SEWER CODE				

TITLE SHEET

GTW'S WAVERLY WOODS
SECTION 13
BULK PARCEL 'F'
"WET POND REHABILITATION"

ZONED: R-5A-8
TAX MAP NO: 16 PARCEL NO: 20 GRID NO: 5
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MARCH 21, 2007
SHEET 1 OF 6

SDP-06-105
AS BUILT

POND SUMMARY DATA

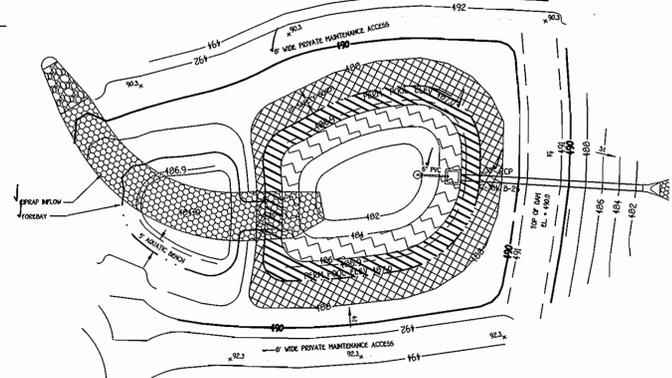
DESIGN STORM	100 YEAR
Developed Outflow (cfs)	48.7
Water Surface Elevation	488.90
Storage (ac. ft.)	0.473
Watershed Structure Type	Little Patuxent Recreational Wet Pond
Structure Classification	LOW HAZARD A - Non-378
Structure Location	Urban
Storage Height Product	4.49 ac/ft
Watershed Area to Facility	6.94 Ac.
Minimum Top Width Provided	12.0 feet
Maximum Height of Fill	9.50 feet
Freeboard Required Above 100 Year	2.00 feet
Freeboard Provided Above 100 Year	2.10 feet
FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED.	
AESTHETIC AND RECREATIONAL USE ONLY - NO STORMWATER MANAGEMENT PROVIDED	
OUTFLOW (cfs)	ELEVATION
1-YEAR	5.8 488.07
10-YEAR	30.1 488.62
100-YEAR	48.7 488.90

LEGEND

- S—S—S— SUPER-SILT FENCE
- T—T—T— TREE PROTECTION FENCE
- [Symbol] S.C.E. STABILIZED CONSTRUCTION ENTRANCE
- — — — — LIMIT OF DISTURBANCE
- [Symbol] R.P.S. REMOVABLE PUMPING STATION
- [Symbol] F.B. FILTER BAG
- [Symbol] ECM EROSION CONTROL MATTING

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING	
LINEAR FEET OF PERIMETER	D-1: 529'
NUMBER OF TREES REQUIRED:	
SHADE TREES	13
EVERGREEN TREES	13
CREDIT FOR EXISTING VEGETATION (NO, YES AND X)	YES 200' (EXIST. VEG.)
CREDIT FOR OTHER LANDSCAPING (NO, YES AND X)	NO
NUMBER OF TREES PROVIDED:	
SHADE TREES	7
EVERGREEN TREES	6

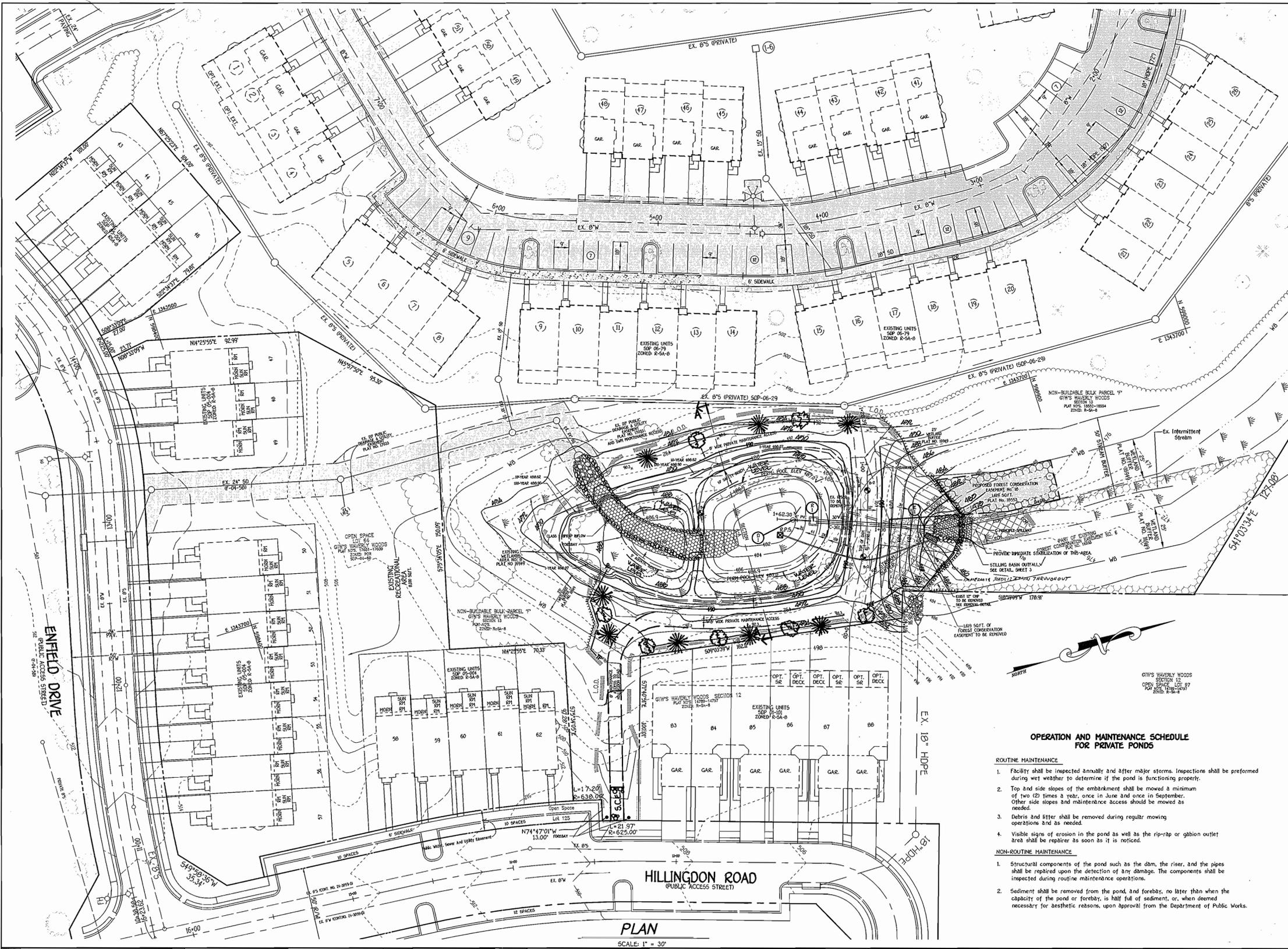
"THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 18.024 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL". FINANCIAL SURETY FOR THE 15 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$3,300.00.



- [Symbol] 0' - 12" ELEVATION ABOVE NORMAL POOL ELEVATION - PLANT BENCH AREA w/ ANY ONE OF THE FOLLOWING: NEW ENGLAND ASTER, MARSH ASTER, MARSH MARIGOLD (APPALACHIAN PLATEAU), TURKISH GAZON SPOTTED JAR PHEE, FORGET ME NOTS, INCORCART, PURPLE OXER, DOGWOOD, PIN OAK, RIVER BIRCH, SYCAMORE, SWAMP WHITE OAK, COASTAL PLAIN, WEeping WILLOW OR DARK REDWOOD.
- [Symbol] 0' - 12" ELEVATION BELOW NORMAL POOL ELEVATION - PLANT AREA w/ ANY ONE OF THE FOLLOWING: BLUE FLAG IRIS, IRIS, POTATO, FLOWERING BULBUSH, SOFTSHRUB SEDGES, LOBELIA, POND CYPRESS OR VARIOUS ASTERS
- [Symbol] 1' - 3' ELEVATION BELOW NORMAL POOL ELEVATION - PLANT AREA w/ ANY ONE OF THE FOLLOWING: WATER LILY, DEEP WATER DOCK, POTATO, SAGO POND PLANT, WILD CELERY OR BEARD TONGUE.



INTERNAL LANDSCAPING POND NO. 1
SCALE: 1" = 30'



OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATE PONDS

- ROUTINE MAINTENANCE**
- Facility shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the pond is functioning properly.
 - Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year, once in June and once in September. Other side slopes and maintenance access should be mowed as needed.
 - Debris and silt shall be removed during regular mowing operations and as needed.
 - Visible signs of erosion in the pond as well as the rip-rap or gabion outlet area shall be repaired as soon as it is noticed.
- NON-ROUTINE MAINTENANCE**
- Structural components of the pond such as the dam, the riser, and the pipes shall be repaired upon the detection of any damage. The components shall be inspected during routine maintenance operations.
 - Sediment shall be removed from the pond, and forebay, no later than when the capacity of the pond or forebay, is half full of sediment, or, when deemed necessary for aesthetic reasons, upon approval from the Department of Public Works.

PLAN
SCALE: 1" = 30'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE BUILDING - 18072 BALTIMORE NATIONAL FREE
ELLICOTT CITY, MARYLAND 21042
410-461-2055

T. E. SCOTT & ASSOCIATES, INC.
158 COCKEYVILLE ROAD, SUITE 200
HUNTS VALLEY, MARYLAND 21086
410-389-0818

NO.	REVISIONS PER POND AS-BUILT	REVISION	DATE
1	REVISIONS PER POND AS-BUILT		1/10/09

ENGINEER'S CERTIFICATE

I certify that the Construction, Erosion and Sediment Control Represents A Practical Approach based on my Personal Knowledge of the Site Conditions. This Plan Was Prepared in Accordance with the Requirements of the Howard Soil Conservation District. I Have Notified the District at He/She Must Engage A Registered Professional Engineer To Supervise and Provide the Howard Soil Conservation District with An "As-Built" Plan of the Pond Within 30 Days of Completion.

Signature: [Signature] Date: 5/23/07

OWNER/DEVELOPER'S CERTIFICATE

"I/We Certify That All Development And/Or Construction Will Be Done According To These Plans, And That Any Responsible Personnel Involved In The Construction Project Will Have A Certificate of Attendance At A Department Of The Environment Approved Training Program For The Control of Sediment And Erosion Before Beginning The Project. I Shall Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District with An "As-Built" Plan of The Pond Within 30 Days of Completion. I Also Authorize Professional On-Site Inspections By The Howard Soil Conservation District."

Signature of Developer/Owner: [Signature] Date: 5/23/07

Reviewed for HOWARD SCD and meets Technical Requirements.

U.S.D.A.-Natural Resources Conservation Service
Signature: [Signature] Date: 6/13/07

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature: [Signature] Date: 6/13/07

Howard SCD

OWNER/DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
C/O LAND DESIGN AND DEVELOPMENT, LLC
3300 DORSEY HALL DRIVE
SUITE 102
ELLICOTT CITY, MARYLAND 21042
443-967-9422

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Planning and Zoning
Signature: [Signature] Date: 6/16/09

Chief, Development Engineering Division
Signature: [Signature] Date: 6/15/09

Director - Department of Planning and Zoning
Signature: [Signature] Date: 6/24/09

PROJECT	GTW'S WAVERLY WOODS	SECTION	13	UNIT NO'S.	N/A
PLAT	5	BLOCK NO.	R-5A-B	TAX/ZONE	16
WATER CODE		SEWER CODE		ELEC. DIST.	THIRD
				CENSUS TR.	

POND SITE PLAN AND SEDIMENT CONTROL PLAN

GTW'S WAVERLY WOODS SECTION 13 BULK PARCEL 'F' "WET POND REHABILITATION"

ZONED: R-5A-B
TAX MAP NO: 16 PARCEL NO: 20 GRID NO: 5
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MARCH 21, 2007
SHEET 2 OF 6

STANDARD STORM WATER MANAGEMENT POND CONSTRUCTION SPECIFICATIONS (MD-378)

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation
Areas designated for borrow areas, embankment, and structural works shall be cleared and grubbed of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1. All trees shall be cleared and grubbed within 15 feet of the toe of the embankment.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush, and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of 2-20' radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill
SEE SHEET 5

Structure Backfill
SEE SHEET 5

Pipe Conduits
All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe:

1. Materials - (Polymer Coated steel pipe) - Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch mill on both sides of the pipe. This pipe and its appurtenances shall conform to the requirements of AASHTO Specifications M-245 & M-246 with watertight coupling bands or flanges.

2. Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. Aluminum Coated Steel Pipe, when used with flexible fill or when soil and/or water conditions warrant the need for increased durability, shall be full bituminous coated per requirements of AASHTO Specification M-190 Type A. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer or two coats of asphalt.

3. Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-190 or M-211 with watertight coupling bands or flanges. Aluminum pipe, when used with flexible fill or when soil and/or water conditions warrant for increased durability, shall be full bituminous coated per requirements of AASHTO Specification M-190 Type A. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer or two coats of asphalt. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be between 4 and 9.

4. Coupling bands, anti-seep collars, end sections, etc., must be composed of the same material and coatings as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

5. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Simple bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be revolved an adequate number of corrugations to accommodate the bandwidth. The following pipe connections are acceptable for pipes less than 24-inches in diameter: (flanges on both ends of the pipe with a circular 3/8 inch closed cell neoprene gasket, pre-punched to the flange bolt circle, sandwiched between adjacent flanges; a 12-inch wide standard lip type band with 12-inch wide by 3/8-inch thick closed cell circular neoprene gasket; and a 12-inch wide hanger type band with corrugated flanges having a minimum diameter of 1/2-inch greater than the corrugation depth). Pipes 24-inches in diameter and larger shall be connected with a 24-inch wide standard corrugated band using a minimum of 4 (four) rods and nuts, 2 on each connecting pipe end. A 24-inch wide by 3/8-inch thick closed cell circular neoprene gasket will be installed with 12-inches on the end of each pipe. Flanged joints with 3/8-inch closed cell gaskets the full width of the flange is also acceptable.

Helically corrugated pipe shall have either continuously welded seams or have lock seams with internal caulking of a neoprene bead.

6. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

7. Backfilling shall conform to "Structure Backfill".

8. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

1. Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM C-301.

2. Bedding - Reinforced concrete pipe conduits shall be laid in a concrete bedding/cradle for their entire length. This bedding/cradle shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 50% of its outside diameter with a minimum thickness of 6 inches. Where a concrete cradle is not needed for structural reasons, flowable fill may be used as described in the "Structure Backfill" section of this standard. Gravel bedding is not permitted.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 4 feet from the riser.

4. Backfilling shall conform to "Structure Backfill".

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Plastic Pipe

- The following criteria shall apply for plastic pipe:
 - Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe couplings and fittings shall conform to the following: 4" - 10" inch pipe shall meet the requirements of AASHTO M252 Type 5, and 12" through 24" inch shall meet the requirements of AASHTO M259 Type 5.
 - Joins and connections to anti-seep collars shall be completely watertight.
 - Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
 - Backfilling shall conform to "Structure Backfill".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Drainage Diaphragms

When a drainage diaphragm is used, a registered professional engineer will supervise the design and construction inspection.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, 15x No. 3.

Rock Riprap

Riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 311.

Geotextile

Geotextile shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 927A, Class C.

Care of Water during Construction

All work on permanent structures shall be carried out in areas free from water. The contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish trench shields, and maintain all necessary pumping and other equipment required for removal of water from various parts of the work and for maintaining the excavations, foundation and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water sumps from which the water shall be pumped.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resources Conservation Service Standards and Specifications for Critical Area Planning (MD-342) or as shown on the accompanying drawings.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures.

OPERATION AND MAINTENANCE

An operation and maintenance plan in accordance with Local or State Regulations will be prepared for all ponds. As a minimum, the dam inspection checklist located in Appendix A shall be included as part of the operation and maintenance plan and performed at least annually. Written records of maintenance and major repairs needs to be included in a file. The issuance of a Maintenance and Repair Permit for any repairs or maintenance that involves the modification of the dam or spillway shall be in accordance with its original design and specifications is also required for any repairs or reconstruction that involve a substantial portion of the structure. All indicated repairs are to be made as soon as practical.

Unless otherwise specified, all general conditions, planting operations, details and planting specifications shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metropolitan Areas", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architect, latest edition, including all addenda.

Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

Contractor shall be responsible for notifying utility companies, utility contractors and Miss Utility a minimum of 48 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structures and utilities shall be repaired at the expense of the Contractor.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high fence or blaze orange safety fence at the drip line.

Contractor is responsible for installing all material to be completed within the growing season of completion of site construction.

Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence.

All shrubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

Positive drainage shall be maintained in planting beds 2 percent slope.

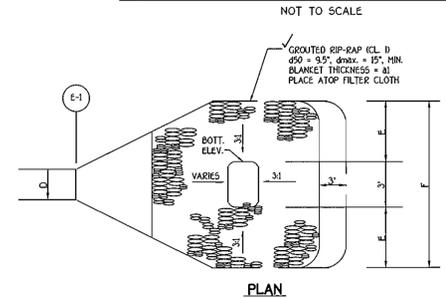
Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants - Two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen specific fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Weed Control: Incorporate a pre-emergent herbicide into the planting beds and mulch at the time of planting. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated.

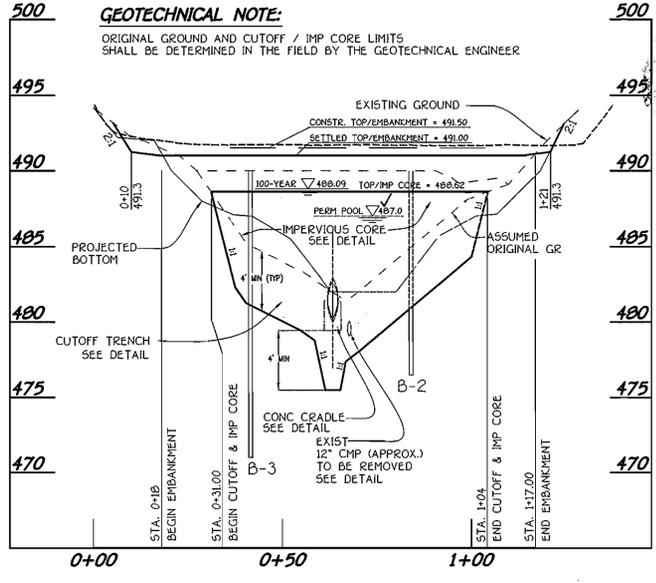
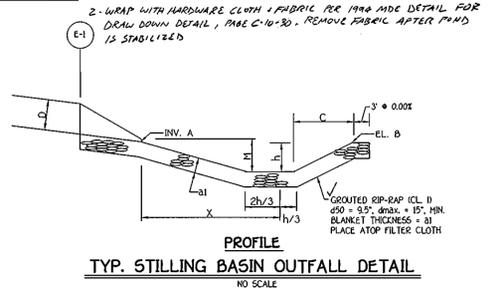
All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded.

This plan is intended for landscape use only. See other plan sheets for more information on grading, sediment control, layout, etc.

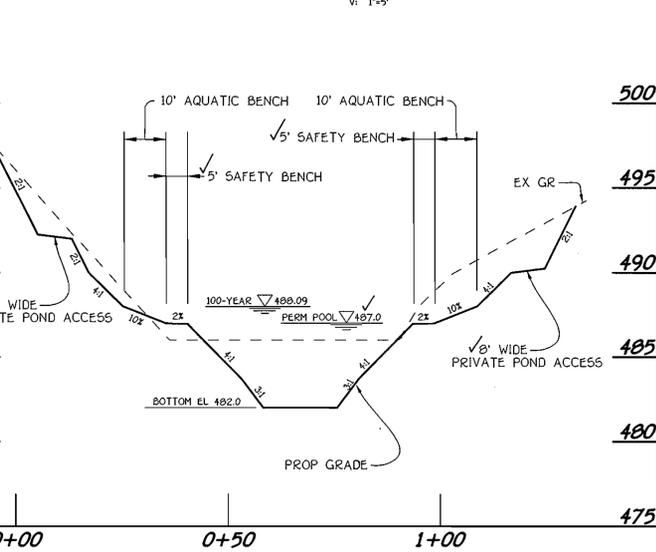
DEWATERING DEVICE DETAIL



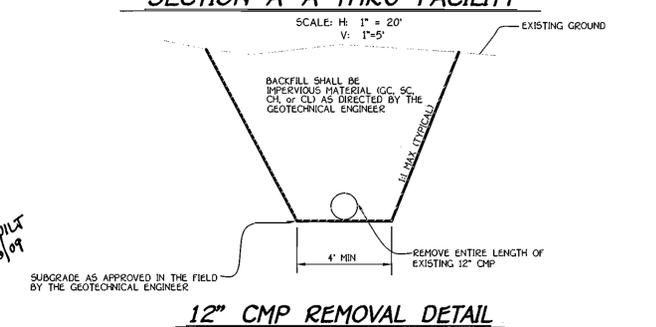
PROFILE TYP. STILLING BASIN OUTFALL DETAIL



PROFILE ALONG & DAM
SCALE: H: 1" = 20'
V: 1" = 5'



SECTION A-A THRU FACILITY
SCALE: H: 1" = 20'
V: 1" = 5'



12" CMP REMOVAL DETAIL
NOT TO SCALE

PLANTING SPECIFICATIONS

Plants, related material, and operations shall meet the detailed description as given on the drawings and as described herein.

All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to the species, size, root and stem diameter listed on the plant list and the American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, free from defects, decay, disfiguring pests, sun scald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable deformations. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be freshly dug or heated-in plants from cold storage will be accepted.

Unless otherwise specified, all general conditions, planting operations, details and planting specifications shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metropolitan Areas", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architect, latest edition, including all addenda.

Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

Contractor shall be responsible for notifying utility companies, utility contractors and Miss Utility a minimum of 48 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structures and utilities shall be repaired at the expense of the Contractor.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high fence or blaze orange safety fence at the drip line.

Contractor is responsible for installing all material to be completed within the growing season of completion of site construction.

Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence.

All shrubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

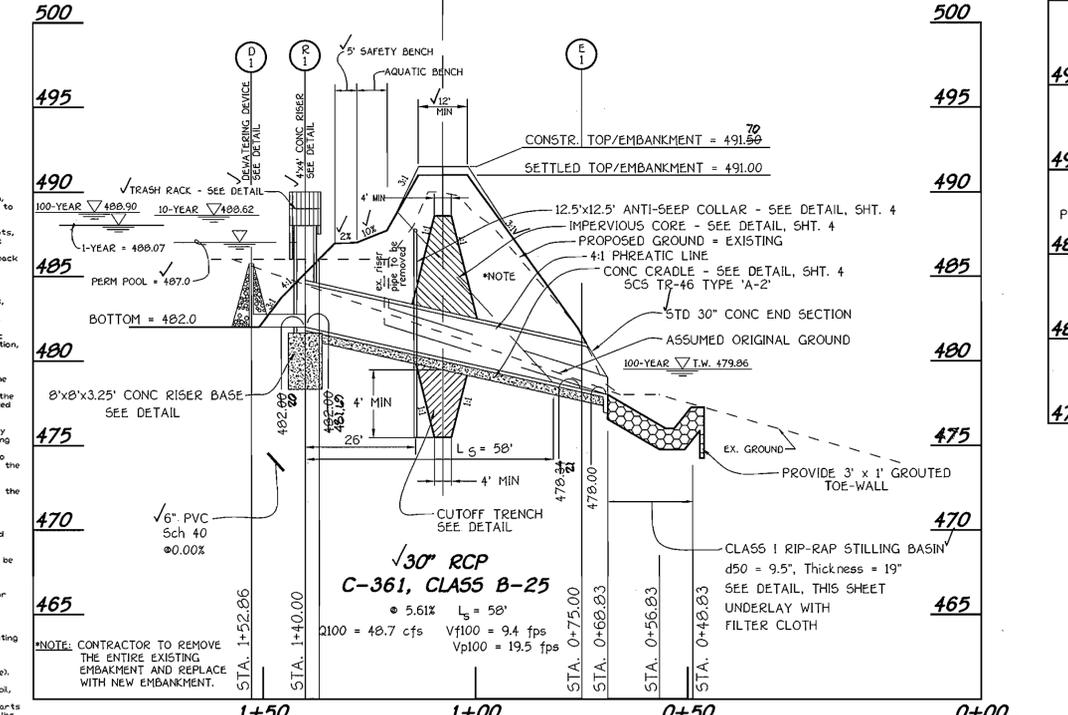
Positive drainage shall be maintained in planting beds 2 percent slope.

Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants - Two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen specific fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Weed Control: Incorporate a pre-emergent herbicide into the planting beds and mulch at the time of planting. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated.

All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded.

This plan is intended for landscape use only. See other plan sheets for more information on grading, sediment control, layout, etc.



PROFILE THRU PRINCIPLE SPILLWAY
SCALE: H: 1" = 20'
V: 1" = 5'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1000 SCOTTSVILLE ROAD, SUITE 200
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410-329-2121
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1000 SCOTTSVILLE ROAD, SUITE 200
HUNT VALLEY, MARYLAND 21030
410-329-2121
www.tescott.com

NO.	REVISION	DATE
1	REVISION PER POND AS-BUILT	1/16/07

ENGINEER'S CERTIFICATE
I Certify that the Construction, Erosion and Sediment Control Represents a Practical AASHTO M-245 & M-246 On My Personal Knowledge of the Site Conditions. This Plan Was Prepared in Accordance with the Requirements of The Howard Soil Conservation District. I Have Notified The Howard Soil Conservation District and The Howard Soil Conservation District Supervisor of the Construction of this Project. The Howard Soil Conservation District With An "As-Built" Plan of the Pond Within 30 Days of Completion.
Signature of Engineer: ALDO M. VITUCCI
Date: 5/23/07

BUILDER/DEVELOPER'S CERTIFICATE
I/We Certify that All Development and/or Construction will be Done According to These Plans, And That Any Responsible Personnel Involved In The Construction Project will Have A Certificate of Attendance At A Department Of The Environment Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Shall Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days of Completion. I Also Authorize Personnel To Site Inspections By The Howard Soil Conservation District.
Signature of Developer/Owner: [Signature]
Date: 5/23/07

These Plans Have Been Reviewed For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction, Soil Erosion And Sediment Control.
U.S.D.A. Natural Resources Conservation Service
Signature: [Signature]
Date: 6/13/07

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.
Howard SCD
Signature: [Signature]
Date: 6/13/07

OWNER/DEVELOPER
WAVERLY WOODS DEVELOPMENT CORPORATION
C/O LAND DESIGN AND DEVELOPMENT, LLC
5300 DORSEY HALL DRIVE
SUITE 102
ELLCOTT CITY, MARYLAND 21042
443-367-0422

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development
Signature: [Signature]
Date: 6/16/07

Chief, Development Engineering Division
Signature: [Signature]
Date: 6/16/07

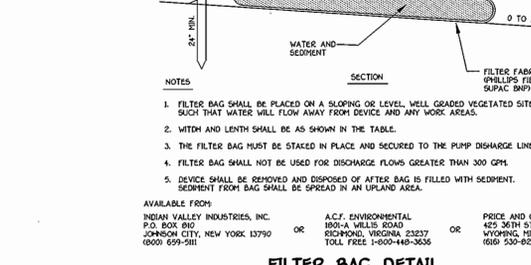
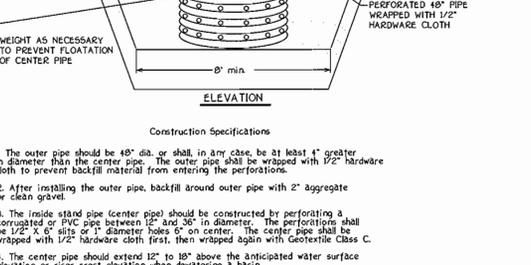
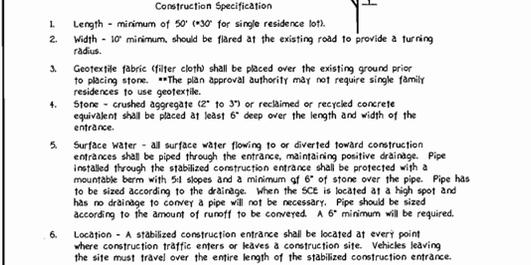
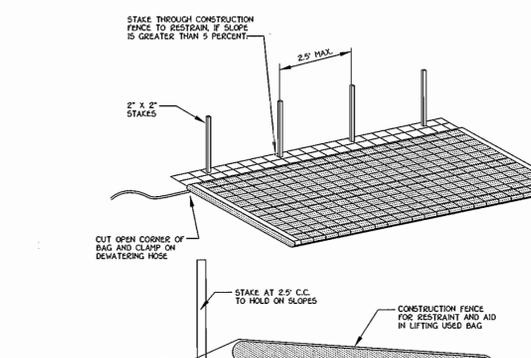
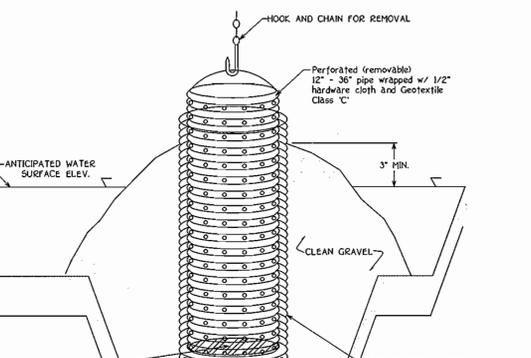
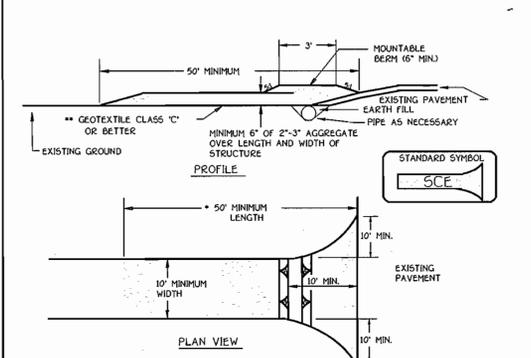
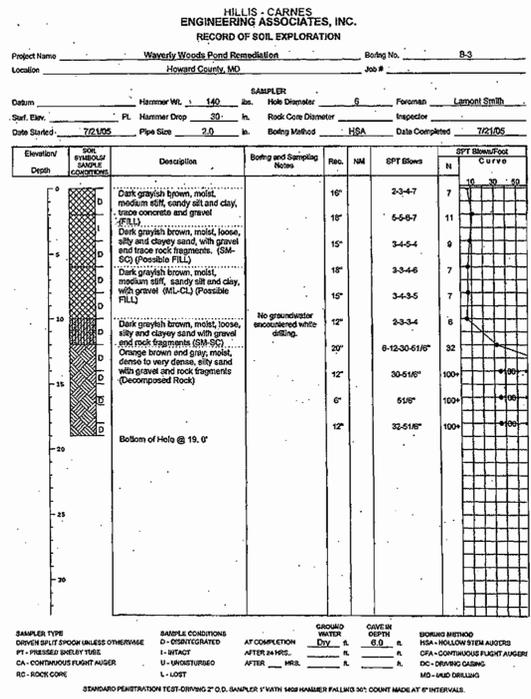
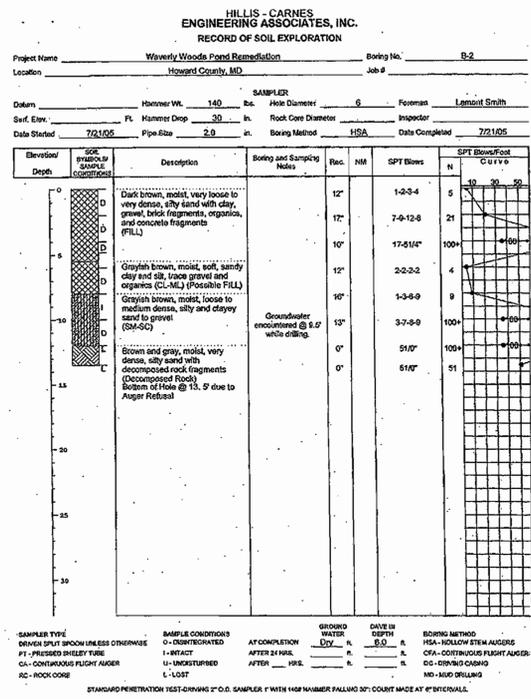
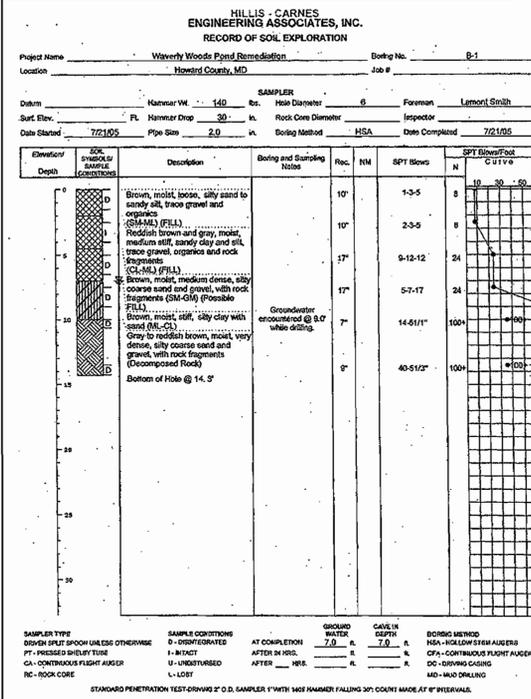
Director - Department of Planning and Zoning
Signature: [Signature]
Date: 6/16/07

PROJECT: GTW'S WAVERLY WOODS
SECTION: 13
UNIT NO'S: N/A

FLAT: 5
BLOCK NO.: 5
ZONE: R-SA-B
TAX/ZONE: 16
ELEC. DIST.: THIRD
CENSUS TR.: N/A

WATER CODE: [Blank]
SEWER CODE: [Blank]

STORMWATER DETAIL SHEET
GTW'S WAVERLY WOODS
SECTION 13
BULK PARCEL 'F'
"WET POND REHABILITATION"
ZONED: R-SA-B
TAX MAP NO.: 16
PARCEL NO.: 20
GRID NO.: 5
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN
DATE: MARCH 21, 2007
SHEET 3 OF 6



REVISION TABLE

NO.	REVISION	DATE

SEQUENCE OF CONSTRUCTION

POND CONSTRUCTION

- OBTAIN A GRADING PERMIT.
- NOTIFY "HIS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION AT 410-313330 AT LEAST 24 HOURS BEFORE STARTING WORK.
- INSTALL ALL TREE PROTECTION FENCE FOR TREES TO BE UNDISTURBED AS INDICATED ON THE PLANS FOR THE AREA ASSOCIATED WITH POND RECONSTRUCTION. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE. (1 DAY)
- NOTE THAT NO DISTURBANCE IS ALLOWED UNTIL ALL SHARPENED MATERIALS FOR THE NEW PRINCIPAL SPILLWAY ARE ON SITE AND PERMISSION FROM THE INSPECTOR IS GRANTED IN WRITING TO PROCEED.
- ALL DAM EMBANKMENT AND CORE TRENCH CONSTRUCTION SHALL BE COORDINATED WITH A PROFESSIONAL GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE RECOMMENDATIONS SHOWN ON THESE PLANS. NO BLASTING WILL BE PERMITTED FOR THE EXCAVATION OF SEDIMENT BASIN EMBANKMENT. WHERE NECESSARY, SPILING AND JACK HAMMERING SHOULD BE UTILIZED IN THE EXCAVATION OF THE FACILITY. THIS WORK SHALL BE DONE WITHIN A 5-DAY CLEAR WEATHER FORECAST FROM THE NWS AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR. (3 WEEKS)
- UPON COMPLETION OF THE POND CONSTRUCTION, RECEIVE PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO PROCEEDING.
- WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES AND THE POND HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED AND/OR BACKFILLED AND THE REMAINING AREAS BROUGHT TO FINAL GRADE. STABILIZE ALL AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 WEEK)
- NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT. "AS-BUILT" MUST BE SUBMITTED AND APPROVED BEFORE THE CLOSING OF PERMITS UNDER SDP-06-105.

NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS. REMOVE SEDIMENT FROM THE POND WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED. ALL SEDIMENT MUST BE PLACED UPSTREAM OF THE APPROVED TRAPPING DEVICE.

ENGINEER'S CERTIFICATE

I, the undersigned, a duly Licensed Professional Engineer in the State of Maryland, do hereby certify that the Plans for Small Pond Construction, Soil Erosion and Sediment Control Represent a Practical and Feasible Solution to the Problems Presented by the Plans and that the Plans are in accordance with the Requirements of the Howard Soil Conservation District. I have Supervised the Construction of the Project and I am a Registered Professional Engineer in the State of Maryland. I will Provide the Howard Soil Conservation District with an "As-Built" Plan within 30 Days of Completion.

Signature: *[Signature]* Date: 5/13/07

OWNER/DEVELOPER'S CERTIFICATE

I/We Certify that All Development And/Or Construction Will Be Done According to These Plans, And That Any Responsible Personnel Involved In the Construction Project Will Have a Certificate of Attendance At A Department Of The Environment Approved Training Program For The Control of Sediment And Erosion Before Beginning The Project. I Shall Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days Of Completion. I Also Authorize On-Site Inspections By The Howard Soil Conservation District.

Signature: *[Signature]* Date: 5/13/07

HILLIS-CARNES ENGINEERING ASSOC. CONCLUSIONS AND RECOMMENDATIONS (AUGUST 2005)

Based on the results of our field exploration and our preliminary evaluation, it is our opinion that the pond embankment was not constructed in accordance with USDA NRCS MD-378 (January, 2000) guidelines. On the basis of the boring data and our evaluation, the pond embankment does not appear to have been constructed with a core or core trench.

Based on our discussions with the Client, the existing pond is to be totally replaced by a new pond that will be designed and constructed in accordance with current USDA NRCS MD-378 (January, 2000) guidelines. The recommendations provided below can be utilized for the design of the new pond facility.

Embankment Construction

The following procedures should be utilized to prepare the subgrade for embankment support and to construct the proposed embankment.

All trees, topsoil, organic materials, frozen, wet, soft or loose soils and other deleterious materials should be removed from the areas of proposed new embankment and wasted prior to the placement of fill. These stripping operations should be performed in a manner consistent with good erosion and sediment control practices and in accordance with Soil Conservation Guidelines.

After stripping operations have been completed, the exposed subgrade materials should be profiled with a loaded dump truck or similar equipment in the presence of a geotechnical engineer or his representative. For areas that are not accessible to a dump truck, the exposed materials should be observed and tested by a geotechnical engineer or his representative utilizing a Dynamic Cone Penetrometer. Any excessively soft or loose materials identified by profiling or penetrometer testing should be excavated to suitable firm soil, and then graded re-established by suitable fill.

Any water infiltration resulting from a shallow interception of the groundwater table, surface run-off, or perched water, if not too extensive, should be able to be controlled by means of curbs and pumps, or by gravity ditching procedures provided that the groundwater level must only be lowered by a depth of 1 1/2 ft to 2 ft. If the groundwater must be lowered by more than 1 1/2 ft to 2 ft, or if lesser amounts of water cannot be suitably lowered by pumping, then the use of a more extensive dewatering system such as deep wells and well points will be required.

Fill Material Suitability

All materials to be used as fill in the embankment should be inspected, tested and approved by the Geotechnical Engineer. Based on our evaluation of the soils encountered borings conducted on the site, it appears that the on-site soils that are free from organics and other deleterious materials can be selectively used for construction of the embankment. Moisture conditioning (that is, wetting or drying) of the materials may be required in order to achieve proper compaction depending on the season of the year. The moisture contents of the soils should be properly controlled to avoid extensive compaction delays. Additional laboratory tests should be performed on the borrow materials prior to their use in the compacted fill.

Imported fill materials should be of equal or greater quality than the on-site materials and should be approved for use by the Geotechnical Engineer.

Fill Placement and Compaction

All fill materials must be placed and compacted in accordance with NRCS-MD Code No. 378 specifications. In particular, fill materials should be placed in relatively horizontal loose lifts of 8-inch maximum thickness and should be compacted to dry densities of at least 85 percent of the Standard Proctor maximum dry density (ASTM D-4988). Moisture contents should be maintained within ±2 percent of optimum moisture content, and preferably between optimum moisture content and +2 percent of optimum moisture content. All engineered fill materials should be properly banded into existing slopes.

An experienced soil technician under the direction of a Geotechnical Engineer should perform field density tests on the embankment fill, as necessary, to verify that adequate compaction is achieved. If any compaction problems are encountered during construction, the Geotechnical Engineer should be contacted for advice, as modifications to the compaction procedures may be appropriate.

Cut-off Trench Construction

A representative of the Geotechnical Engineer should be present to monitor placement and compaction of fill for the embankment and cut-off trench. In accordance with NRCS-MD Code No. 378 Pond Standards/Specifications, soils considered suitable for the center of embankment and cut-off trench shall conform to Unified Soil Classification GC, SC, CH, or CL and must have at least 30% passing the #200 sieve.

It is our professional opinion that in addition to the soil materials described above a fine-grained soil, including Silt (ML) with a plasticity index of 10 or more can be utilized for the center of the embankment and core trench.

TOPSOIL NOTES

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose
To provide a suitable soil medium for vegetative growth. Subsoil of concern has low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 21 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of nutrients and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
- The soil is so acidic that treatment with limestone is not feasible.

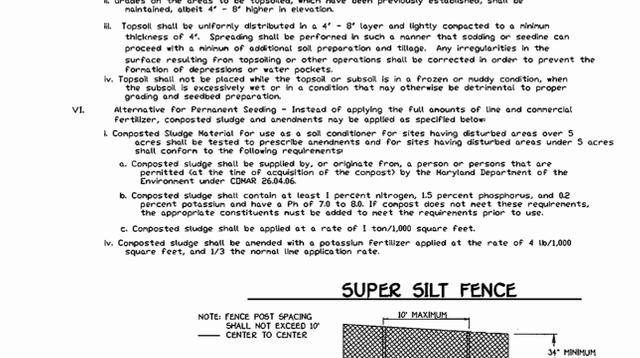
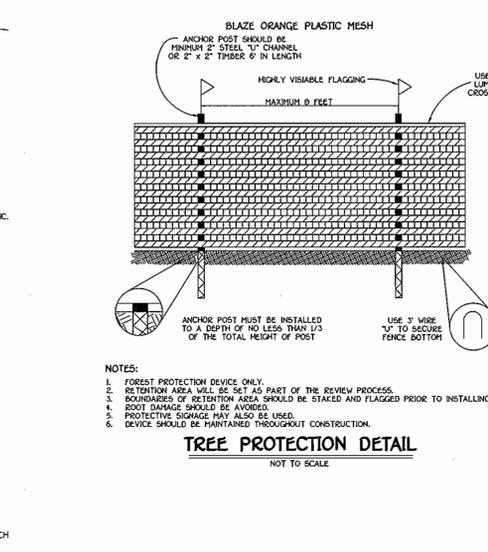
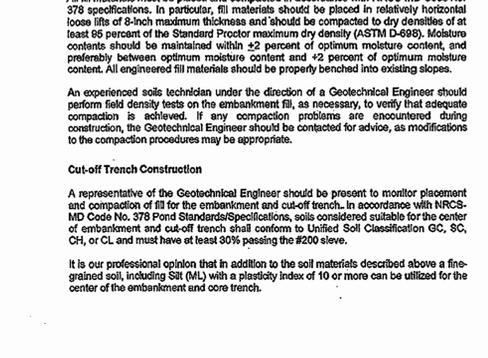
Construction and Material Specifications

- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special conditions for grading for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.
- Topsoil Salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an approved soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 pounds per 1,000 square feet prior to the placement of topsoil. Limestone shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
 - Place topsoil of required and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - In soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min) to permit dissipation of phytotoxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

Topsoil Application

- Place topsoil of required and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seedbed can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed where the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
- Alternative For Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below.
 - Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas over 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under CDMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.



FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

138 COCKEYSVILLE ROAD, SUITE 300 HUNT VALLEY, MARYLAND 21086

T. E. SCOTT & ASSOCIATES, INC. 158 COCKEYSVILLE ROAD, SUITE 300 HUNT VALLEY, MARYLAND 21086

ENGINEER'S CERTIFICATE

I, the undersigned, a duly Licensed Professional Engineer in the State of Maryland, do hereby certify that the Plans for Small Pond Construction, Soil Erosion and Sediment Control Represent a Practical and Feasible Solution to the Problems Presented by the Plans and that the Plans are in accordance with the Requirements of the Howard Soil Conservation District. I have Supervised the Construction of the Project and I am a Registered Professional Engineer in the State of Maryland. I will Provide the Howard Soil Conservation District with an "As-Built" Plan within 30 Days of Completion.

Signature: *[Signature]* Date: 5/13/07

OWNER/DEVELOPER

WAVELY WOODS DEVELOPMENT CORPORATION
C/O LAND DESIGN AND DEVELOPMENT, LLC
5300 DORSEY HALL DRIVE
SUITE 102
ELLIOTT CITY, MARYLAND 21042
443-367-0422

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Planning and Development: *[Signature]* Date: 6/10/07

Chief, Development Engineering Division: *[Signature]* Date: 6/12/07

Director - Department of Planning and Zoning: *[Signature]* Date: 6/22/07

PROJECT: GTW'S WAVELY WOODS SECTION: 13 UNIT NO'S: N/A

PLAT: 5 BLOCK NO.: 2 ZONE: R-SA-B TAX/ZONE: 16 ELEC. DIST.: THIRD CENSUS TR.: 5

WATER CODE: SEWER CODE:

BORING LOGS & SEDIMENT CONTROL DETAILS

GTW'S WAVELY WOODS SECTION 13

BULK PARCEL 'F' "WET POND REHABILITATION"

ZONED: R-SA-B

TAX MAP NO: 16 PARCEL NO: 20 GRID NO: 5

THIRD ELECTION DISTRICT: HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: MARCH 21, 2007

SHEET 5 OF 6

