

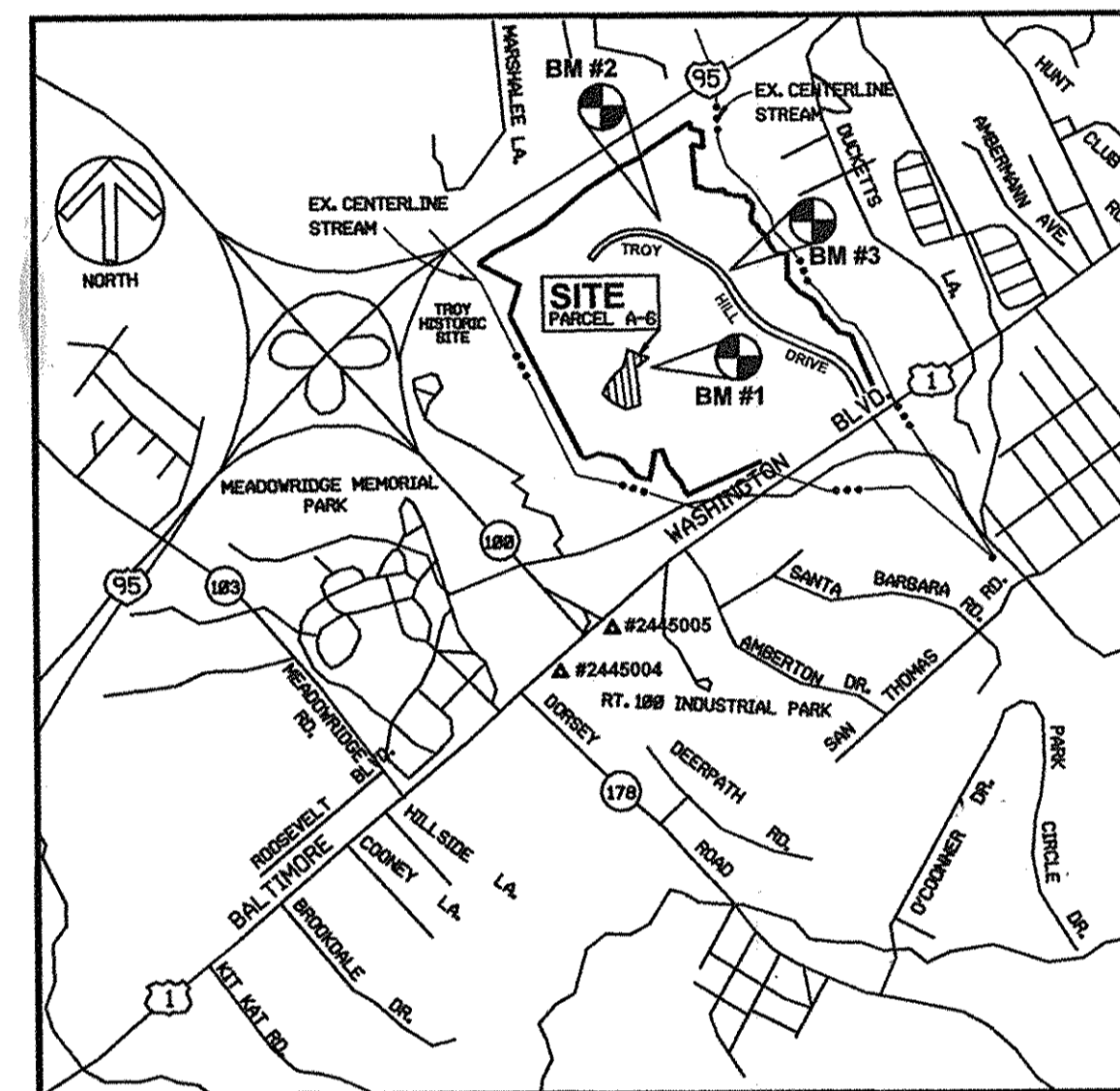
TROY HILL CORPORATE CENTER

PHASE I F 98 - 103

SHEET INDEX

COVER SHEET
STORMWATER MANAGEMENT PLAN
STORMWATER MANAGEMENT DRAINAGE AREA MAPS
STORMWATER MANAGEMENT PROFILES AND DETAILS
STORMWATER MANAGEMENT PROFILES AND DETAILS

1 OF 5
2 OF 5
3 OF 5
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5 OF 5



VICINITY MAP
SCALE: 1" = 2000'

(COORDINATES BASED ON N.A.D. 27, AS PROJECTED BY
HOWARD COUNTY GEOMETRIC CONTROL STATIONS #2445004 AND #2445005.)

1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP NO. 37

BENCHMARK #1

IRON PIN @ TRAVERSE #1066
N 496501.3597 E 869134.4576
ELEV. = 175.92

BENCHMARK #2

IRON PIN @ TRAVERSE #1061
N 498036.6945 E 868791.1502
ELEV. = 242.49

BENCHMARK #3

IRON PIN @ TRAVERSE #1034
N 497636.7437 E 869835.6586
ELEV. = 214.85

OWNER / APPLICANT

TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(410) 290-1400
ATTN : COLE SCHNORF

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, DETAILS AND SPECIFICATIONS FOR CONSTRUCTION.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE SHOWN OR NEEDED AS APPROVED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION AT LEAST 3 DAYS PRIOR TO STARTING WORK SHOWN ON THESE DRAWINGS. (TELEPHONE NO. (410) 313-1880)
- DISTURBED SLOPE AREA TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3500 P.S.I.
- ALL SWALES AND SLOPES SHALL BE PERMANENTLY SEEDED. SEE THE SEED SPECIFICATIONS ON SHEET.
- TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 REVISED EDITION.
- PLOY-FILTER-X OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP-RAP (FULL WIDTH AND LENGTH OF STONE).
- STONE FOR RIP-RAP SHALL BE AS SPECIFIED ON THESE DRAWINGS. ALL RIP-RAP SHALL BE NON-GROUTED UNLESS OTHERWISE NOTED.
- STUBS FOR 6" PVC UNDERDRAIN PIPE TO BE INSTALLED AT CENTER OF EACH WALL OF EVERY INLET.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION : 531-5533
BALTIMORE GAS & ELECTRIC COMPANY / CONTRACTOR SERVICES 850-4620.
BALTIMORE GAS & ELECTRIC COMPANY / UNDERGROUND DAMAGE CONTROL : 787-9068
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS : 313-4900
COLONIAL PIPELINE : 795-1390
MISS UTILITY : 1-800-257-7777.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE FOR AND SUBMIT SHOP DRAWINGS THAT INDICATE ALL REQUIRED STIFFENING, BRACING AND SUPPORTS AT ALL FACTORY OR FABRICATED METAL PIPE CONNECTIONS AND APPURTENANCES.
- THE CONTRACTOR IS COMPLETELY RESPONSIBLE TO INSURE THAT ALL CONDITIONS OF CORPS OF ENGINEER, MDE AND DNR WETLAND AND WATERWAY CONSTRUCTION PERMITS ARE STRICTLY ADHERED TO. A PRE-CONSTRUCTION MEETING IS TO BE ARRANGED BY THE CONTRACTOR BETWEEN ALL SUB-CONTRACTORS, THE OWNER, THE ENVIRONMENTAL CONSULTANT AND COUNTY OFFICIALS TO VERIFY COMPLIANCE. A FAILURE TO COMPLY WITH FEDERAL AND STATE PERMIT REGULATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROPOSED EXTENSION STORMWATER MANAGEMENT PONDS ARE PRIVATELY OWNED AND MAINTAINED.

TOPOGRAPHIC SURVEY
THIS PLAT IS BASED ON A FIELD RUN SURVEY PERFORMED ON MARCH 2, 1988 BY CHARLES A. IRISH, JR., PROFESSIONAL LAND SURVEYOR (MARYLAND NO. 10708) OF VICA INCORPORATED AND A FIELD RUN SURVEY PERFORMED ON JANUARY 8, 1989 BY ROBERT P. HENRY, PROFESSIONAL LAND SURVEYOR (MARYLAND NO. 10856) OF GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.

WAIVERS/APPROVALS/PERMITS

- WAIVER PETITION FILE #WP91-89 TO PERMIT GRADING AND DEVELOPMENT ACTIVITIES WITHIN 100 YEAR FLOOD PLAIN, TO PERMIT GRADING FILLING AND REMOVAL OF VEGETATION COVER WITHIN WETLANDS AND 25' BUFFER SECTIONS 16.116(A)(1); 16.116(C)(6) APPROVED JULY 12, 1991.
- CERTAIN PORTIONS OF THE WETLANDS AND WETLAND BUFFERS SHOWN ON THESE PLANS MAY BE FILLED AND/OR IMPACTED IN ACCORDANCE WITH CORPS OF ENGINEERS NATIONWIDE PERMIT CENAB-OP-RP90-00883-3. MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER QUALITY CERTIFICATE 91-WQC-0326 MARYLAND WATER RESOURCES ADMINISTRATION WATERWAYS CONSTRUCTION PERMIT 90-WC-0047 AND HOWARD COUNTY WAIVER PETITION FILE # WP 91-189. EXPIRATION DATE NOVEMBER 6, 1997.
- PRELIMINARY P-90-23 APPROVED AUGUST 9, 1991.
- WORK IN U.S. ROUTE #1 PERFORMED UNDER S.H.A. PERMIT NO. B-HO-5914-96 F91-24 WATERMAIN CROSSING IN U.S. ROUTE #1 PERFORMED UNDER CONTRACT NO. 44-3502-D.
- MASS GRADING TO BE ACCOMPLISHED UNDER GP 96-121.
- WAIVER PETITION FILE #WP 96-91 TO PERMIT PROCESSING A MASS GRADING PLAN WITHOUT AN APPROVED SITE DEVELOPMENT PLAN.

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Douglas 9/20/98
CHIEF, BUREAU OF HIGHWAYS DATE

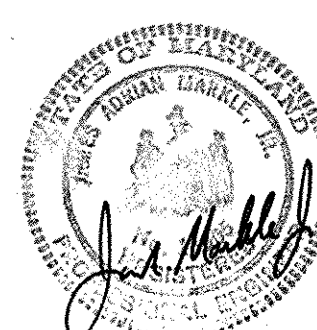
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Cindy Hamilton 10/15/98
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Mark Williams 10/1/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800

SEAL



DESIGNED : PRC

DRAFTED : KE

CHECKED : PRC

COVER SHEET

SCALE : AS SHOWN

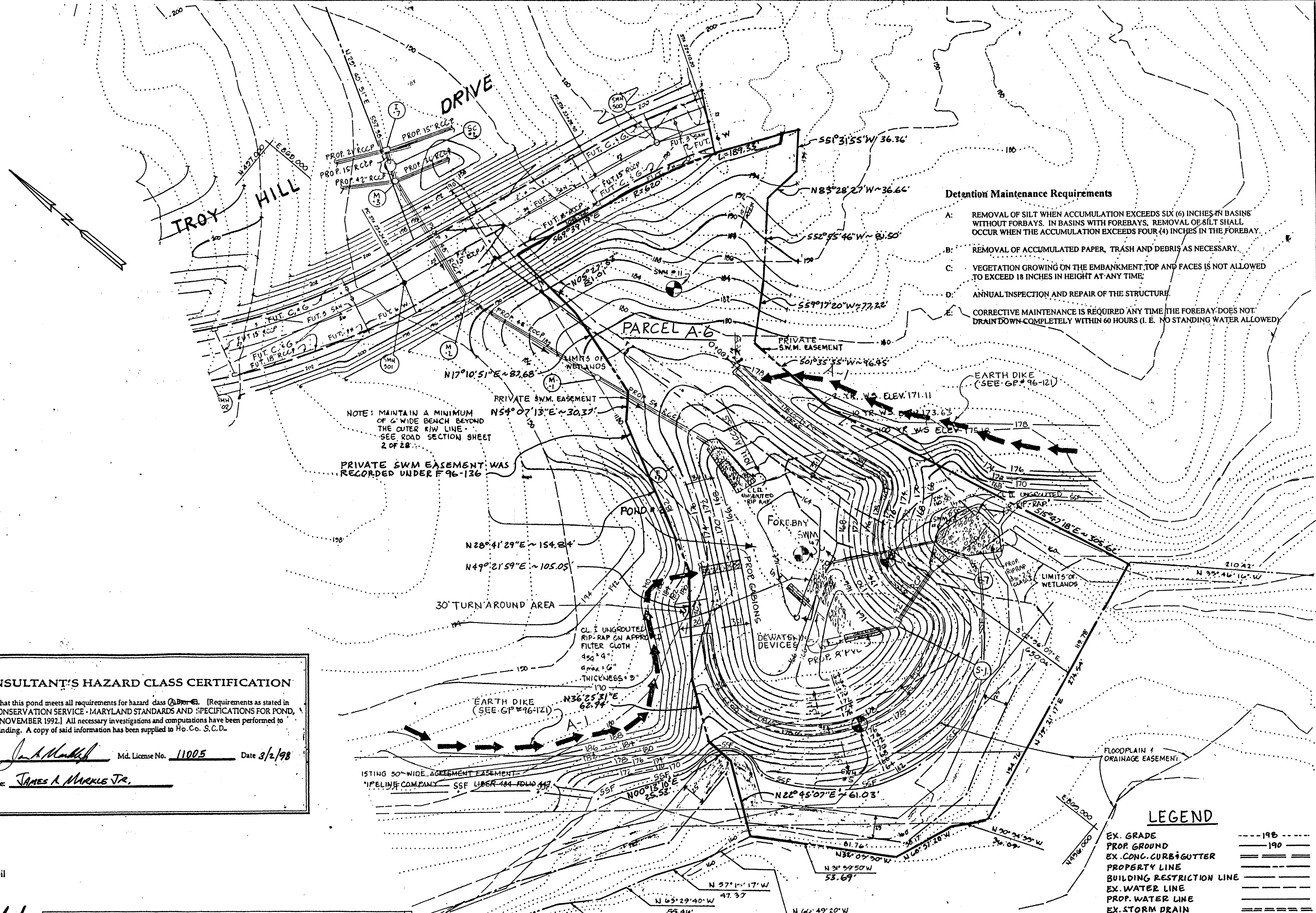
TROY HILL CORPORATE CENTER

PHASE I
PARCEL A-6

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1

MARCH 02, 1998
SHEET 1 OF 5

F98-103



- Detention Maintenance Requirements**
- A: REMOVAL OF SILT WHEN ACCUMULATION EXCEEDS SIX (6) INCHES IN BASINS WITHOUT FOREBAYS. IN BASINS WITH FOREBAYS, REMOVAL OF SILT SHALL OCCUR WHEN THE ACCUMULATION EXCEEDS FOUR (4) INCHES IN THE FOREBAY.
 - B: REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AS NECESSARY.
 - C: VEGETATION GROWING ON THE EMBANKMENT TOP AND FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANY TIME.
 - D: ANNUAL INSPECTION AND REPAIR OF THE STRUCTURE.
 - E: CORRECTIVE MAINTENANCE IS REQUIRED ANY TIME THE FOREBAY DOES NOT DRAIN DOWN COMPLETELY WITHIN 60 HOURS (I. E. NO STANDING WATER ALLOWED).

AS-BUILT CERTIFICATION

I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.

Signature: _____ PE No. _____
Date: _____

Certify means to state or declare a professional opinion based upon onsite inspections and material tests which are conducted during construction. The onsite inspections and material tests are those inspections and tests deemed sufficient and appropriate by commonly accepted engineering standards. Certify does not mean or imply a guarantee by the engineer nor does an engineer's certification relieve any other party from meeting requirements imposed by contract, employment, or other means, including meeting commonly accepted industry practices.

OPERATION, MAINTENANCE AND INSPECTION

Inspection of the pond(s) shown hereon shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, SCS "Standards And Specifications For Ponds" (MD-378). The pond owner(s) and any heirs, successors, or assigns shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.

HOWARD SOIL CONSERVATION DISTRICT

DEVELOPER & ENGINEER CERTIFICATES

() By The Developer:

"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 periodic on-site inspections by the Howard Soil Conservation District."

Signature: D. C. M. P. Date: 7/29/96
Print name below signature: _____
Signature: R. COLFAX SNORF

() By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable 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 notified the developer that he/she must 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."

Signature: James A. Markie Jr. Date: 3/2/98
Print name below signature: _____

() 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: Cheryl S. ... Date: 9/23/98
DA-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: ... Date: 9/23/98
Howard Soil Conservation District

CONSULTANT'S HAZARD CLASS CERTIFICATION

"I certify that this pond meets all requirements for hazard class (A) as stated in the SOIL CONSERVATION SERVICE - MARYLAND STANDARDS AND SPECIFICATIONS FOR POND, CODE 378, NOVEMBER 1992. All necessary investigations and computations have been performed to verify this finding. A copy of said information has been supplied to Ho. Co. S.C.D."

Signature: James A. Markie Jr. Md. License No. 11005 Date: 3/2/98
Print Name: JAMES A. MARKIE JR.

POND SPECIFICATIONS	
DESCRIPTION	DATA
STRUCTURE CLASSIFICATION	A
STORAGE X HEIGHT PRODUCT	6.9AF X 14.5 = 100.5
WATERSHED AREA TO THE POND	30.9AC
POND TYPE	DRY
FREEBOARD	REQUIRED, PROVIDED 2.0'
IMPERVIOUS AREA	20.1AC
TOP OF EMBANKMENT	178.0

POND SUMMARY					
Design Storm	Facility Inflow (cfs)	Facility Discharge (cfs)	Total Discharge (cfs)	Water Surface Elevation (ft)	Storage Vol. with Water Quality (cfs-ft)
2" R	79.24	6.91	6.91	171.11	3.35
10 YR	140.79	33.03	33.03	173.43	5.12
100 YR	208.14	103.13	103.13	175.18	6.93

OWNER/APPLICANT

TROY HILL BUSINESS PARK PARTNERSHIP
C/O WAKEMAN CORP.
7185 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21048
(410) 290-1400
ATTN: COLE SCHMORF

ENGINEER
GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES, INC.

658 KENILWORTH DRIVE
SUITE 100
TOWSON, MARYLAND 21284
(410) 825-8120



DESIGNED: _____
DRAWN: _____
CHECKED: _____

BY	NO	REVISION	DATE

PRIVATE POND DETENTION / STORM CEPTOR

SEDIMENT CONTROL
&
STORM WATER MANAGEMENT
POND #2

TROY HILL CORPORATE CENTER
PHASE 1
PARCEL A-6

HOWARD COUNTY, MD. ELECTION DISTRICT #1
SCALE: AS SHOWN DATE: MARCH 02, 1998
FILL NOS. S90-05, P90-25, F91-24

SCALE: 1" = 50'
SHEET NO. 2 OF 5

POND #2 'A'
PARCEL A-6
3.9166 Ac. OR 170,607.096 Sq.Ft.

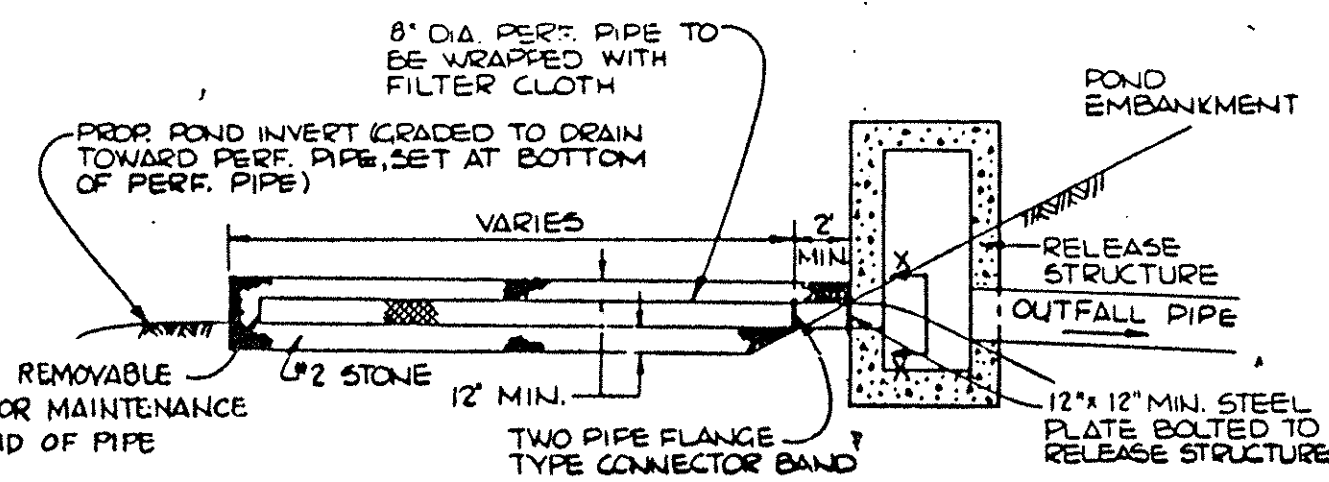
LEGEND

- EX. GRADE ----- 198
- PROP. GROUND ----- 190
- EX. CONC. CURB & GUTTER -----
- PROPERTY LINE -----
- BUILDING RESTRICTION LINE -----
- EX. WATER LINE -----
- PROP. WATER LINE -----
- EX. STORM DRAIN -----
- PROP. STORM DRAIN -----
- EX. SANITARY SEWER -----
- PROP. SANITARY SEWER -----
- EX. WOODS LINE -----
- PROP. PAVING -----
- SOIL BORING -----
- LIMIT OF WETLANDS -----

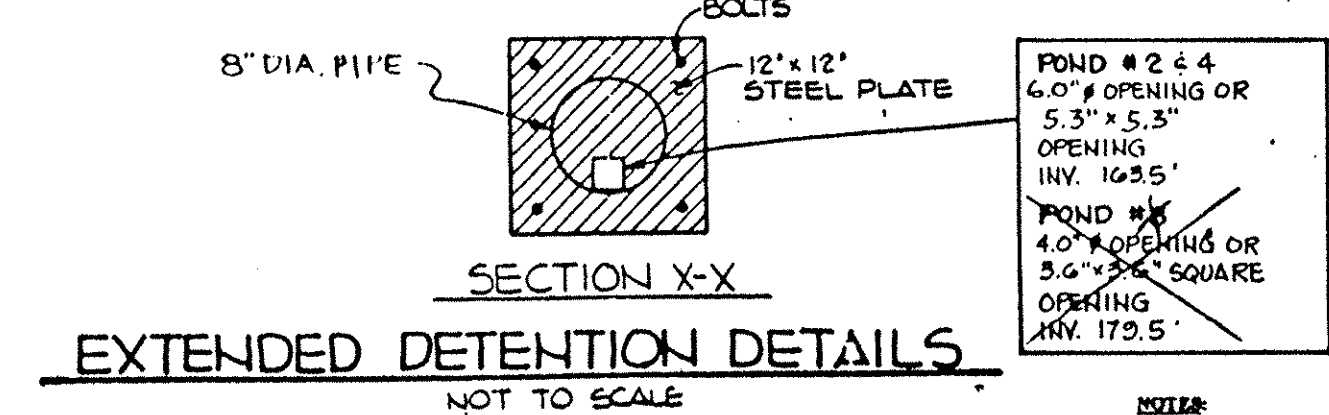
HAZARD CLASSIFICATIONS

NOTE: POND #2 WAS TRANSFERRED TO F98-103 BECAUSE IT WAS NOT BUILT UNDER F98-136.

PLAN
1" = 50'



- NOTES: 1. PERFORATED PIPE SHALL BE BANDED TO LOW FLOW PIPE. 2. PERFORATED PIPES SHALL BE SECURELY WRAPPED WITH APPROVED FILTER CLOTH AND COVERED ON ALL SIDES WITH 1/2 MIN. OF #2 STONE.



DEVELOPER & ENGINEER CERTIFICATES

By The Developer: 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 as a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project.

Signature of Developer: [Signature] Date: 7/29/98

Signature of Engineer: [Signature] Date: 8/1/98

I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions.

Signature of Engineer: [Signature] Date: 8/1/98

Signature of Developer: [Signature]

- GENERAL NOTES: 1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 1976, 1984 AND ADDENDA.

AS-BUILT PLANS AND CERTIFICATION ARE REQUIRED FOR THIS STORMWATER MANAGEMENT FACILITY. THESE MUST BE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, HOWARD COUNTY WILL NOT PERFORM THE INSPECTION OR PREPARE THE AS-BUILT PLANS OR CERTIFICATION.

NOTE: IF REQUIRED BY THE SEDIMENT CONTROL INSPECTOR FENCING SHALL BE INSTALLED TO PREVENT ACCESS TO THE BASIN BY CHILDREN.

NOTE: THESE STORMWATER MANAGEMENT FACILITY IS DESIGNED TO MEET OR EXCEED ALL APPLICABLE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND THE SOIL CONSERVATION DISTRICT. MAINTENANCE OF THIS FACILITY WILL BE THE RESPONSIBILITY OF THE OWNER.

NOTE: THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

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THESE SPECIFICATIONS ARE APPLICABLE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD FOR PRACTICE MD-37A. ALL REFERENCES TO AWM AND AWMED SPECIFICATIONS APPLY TO THE MOST RECENT VERSION.

Site Preparation: AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKERS SHALL BE CLEARED OF ALL TREES, BRUSH, VEGETATION, ROOTS AND OTHER OBSTRUCTIONAL MATERIAL. SHALL BE REMOVED, CHISEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1.

Earth Fill: MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, LIMBS, BRUSH, STONES GREATER THAN 6" PROZEN OR OTHER OBSTRUCTIONAL MATERIALS.

Placement: AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCAPED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 4 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE COMPACTED OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMISSIBLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SLOPEWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.

Compaction: THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPFOOT RUBBER TIED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DENSITY OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED.

Minimum Required Density: MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 92% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY SANDMO METHOD T-99.

Concrete: CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 601.02 AND 601.03.

Reinforcing Steel in the Concrete Structures: REINFORCING STEEL MUST BE ASTM A 615, GRADE 60. STEEL ANCHOR AND ANCHOR BARS MUST BE ASTM A 615.

Rock Riprap: ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 601.03.

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 DRAINAGE LEVEES, COUNTERDAM, DRAINAGE CHANNELS AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORK.

Filter Cloth: FILTER CLOTH SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 711.09. DURABLE FILTER FABRICS FOR DRAINAGE PURPOSES INCLUDE BUT ARE NOT LIMITED TO DEBRAN 140, SUPONET TFC-60, 141, & 141.

Stabilization: ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SUFFICIENTLY COMPACTED AND EXPOSED SURFACE OF THE EMBANKMENT, SPILLWAY, SLOPE AND BORROW-AREAS, AND BEHIND SHALL BE STABILIZED BY SEEDING, GRASS, FERTILIZER AND MULCHING IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 311.

Stormwater Management Facility: STORMWATER MANAGEMENT FACILITY WILL BE STABILIZED WITH PERMANENT SLOPE SEEDING AS FOLLOWS: 1. SEEDING PREPARATION - LOOSEN UPPER 2 INCHES OF SOIL BY RAKING, DISCHING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

Substrate For Riprap Or Gabion Outfalls: SUBSTRATE FOR RIPRAP OR GABION OUTFALLS SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBSTRATE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL. ALL ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS WHEN INSTALLED IN THE RIPRAP OR GABION. ALL STONE SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL PRESERVE THE STONE IN PLACE.

Filter Cloth: FILTER CLOTH SHALL BE REASONABLY HOMOGENEOUS WITH THE LARGER ROCKS, UNFORMALLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER. WITH THE SMALLER ROCKS FILLING THE VOID BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE PLACED UNDER ALL RIP RAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 711.09.

Mulching: APPLY 1.5 TO 2 TONS PER ACRE OF UNWEIGHTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 210 GALLONS PER ACRE OF EMULSIFIED ASPHALT. ON FLAT AREAS OF SLOPE 8 FEET OF 100 LB PER 100 GALLONS PER ACRE FOR ANCHORING.

Maintenance: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

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. THE APPROVED SEDIMENT CONTROL PLANS SHALL BE FOLLOWED AT ALL TIMES DURING THIS CONSTRUCTION PROGRAM.

Filter Cloth: FILTER CLOTH SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 711.09. DURABLE FILTER FABRICS FOR DRAINAGE PURPOSES INCLUDE BUT ARE NOT LIMITED TO DEBRAN 140, SUPONET TFC-60, 141, & 141.

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Maintenance: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

OUT-OF-TRENCH - THE CUTOFF TRENCH SHALL BE EXCAVATED INTO UNWEATHERED MATERIAL ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR EXCAVATION, WITH THE MINIMUM WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST FOUR FEET BELOW EXISTING GRADE OR AS SHOWN ON THE PLANS. THE EDGE SLOPE OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. IF UNDESIRABLE (PEAVON) MATERIAL IS ENCOUNTERED AT THE TIME OF CUT TRENCH INSTALLATION DEEPER THAN 4', IT WILL BE NECESSARY TO EXTEND THE CUTOFF TRENCH DOWN UNTIL SUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY A GEOTECHNICAL ENGINEER. SOILS TO BE USED FOR CUTOFF TRENCH BACKFILL SHALL CONFORM TO UNIFIED CLASSIFICATION CL, SC, CH, OR CC.

INFILTRATION CORE - THE CORE SHALL BE FILLED ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE TOP WIDTH OF THE FILL SHALL BE GOVERNED BY THE EQUIPMENT USED, WITH MINIMUM WIDTH BEING FOUR FEET. THE TOP SURFACE SHALL BE SLOPED TO THE SIDE SLOPE OF THE FILL. THE SIDE SLOPE OF THE FILL SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL". OTHER DETAILS (ANTISEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWING.

CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 601.02 AND 601.03.

REINFORCING STEEL IN THE CONCRETE STRUCTURES: REINFORCING STEEL MUST BE ASTM A 615, GRADE 60. STEEL ANCHOR AND ANCHOR BARS MUST BE ASTM A 615.

ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 601.03.

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 DRAINAGE LEVEES, COUNTERDAM, DRAINAGE CHANNELS AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORK.

FILTER CLOTH: FILTER CLOTH SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 711.09. DURABLE FILTER FABRICS FOR DRAINAGE PURPOSES INCLUDE BUT ARE NOT LIMITED TO DEBRAN 140, SUPONET TFC-60, 141, & 141.

MULCHING: APPLY 1.5 TO 2 TONS PER ACRE OF UNWEIGHTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 210 GALLONS PER ACRE OF EMULSIFIED ASPHALT. ON FLAT AREAS OF SLOPE 8 FEET OF 100 LB PER 100 GALLONS PER ACRE FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

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. THE APPROVED SEDIMENT CONTROL PLANS SHALL BE FOLLOWED AT ALL TIMES DURING THIS CONSTRUCTION PROGRAM.

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STORMWATER MANAGEMENT POND #2

Table with columns for Station, Elevation, Soil Type, and Notes. Includes data for borings P-7, P-6, and P-5.

SOIL BORING LOGS

APPROVED: DEPARTMENT OF PUBLIC WORKS. Chief, Bureau of Highways. Date: 9-30-98.

APPROVED: DEPARTMENT OF PLANNING AND ZONING. Chief, Development Engineering Division. Date: 10/19/98.

ENGINEER: GEORGE WILLIAM STEPHENS JR. AND ASSOCIATES, INC. 658 KENILWORTH DRIVE, SUITE 100, TOWSON, MARYLAND 21284. (410) 825-8120.

Table for DESIGNER, DRAWN, CHECKED, BY, NO, REVISION, DATE.

SEDIMENT CONTROL & STORM WATER MANAGEMENT DETAILS POND #2.

TROY HILL CORPORATE CENTER, PHASE I, PARCEL A-6. HOWARD COUNTY, MD. ELECTION DISTRICT #1. SCALE: AS SHOWN. DATE: MARCH 02, 1998. SHEET NO. 5 OF 5.