

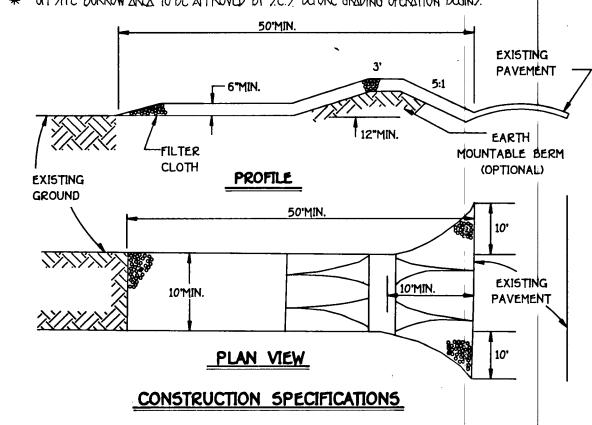
SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY
- CONSTRUCTION (992-2437). 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS
- FOR SOIL EROSION AND SEDIMENT CONTROL. 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES,
- DIKES, PERIMETER SLOPES AND ALL GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL.
- CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF
- 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT
- CONTROL INSPECTOR. 7) SITE ANALYSIS: TOTAL AREA OF SITE AREA DISTURBED
 - AREA TO BE ROOFED OR PAVED 0.24 ACRES AREA TO BE VEGETATIVELY STABILIZED 13.08 ACRES 5000 CU.YDS. 5000 CU.YDS. TOTAL FILL

13.37 ACRES

13.32 ACRES

- * OFFSITE WASTE/BORROW AREA LOCATION N/A CU.YDS. B) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED
- NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION
- APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. * OFF FITE BORROW AREA TO BE APPROVED BY F.C.F. BEFORE GRADING OPERATION BEGINS.



- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THE SIX (6) INCHES.
- 4. WIDTH TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND /OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- B. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE -TURNBUCKLE RUBBER HOSE 2 x 4 STAKE STAKING DETAIL NOT TO SCALE 1'-0" HIGH 2-1/2" CALIPER--TWICE BALL NOTE: REMOVE BURLAP FROM TOP 1/3 OF BALL

GRADING FOR PLANTING

ON SLOPES

FISHER, COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYORS 9171 BALTIMORE NATIONAL PIKE, SUITE 100 ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

TREE PLANTING

NOT TO SCALE

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETETIVE COVER IS NEEDED.

PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

1,000 5Q.FT.) OF 10-20-20 FERTILIZER.

SEEDBED PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING

SOIL AMENDMENTS:
APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LB5/

1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER

(14 LBS./1,000 SQ.FT.) BEFORE SEEDING HARROW OR DISC.

INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING

APPLY 400 LBS. PER ACRE 38-0-0 UREAFORM FERTILIZER

FOR THE PRERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST

THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3

LB5./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE

PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS/ACRE

LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH

MULCHING:
APPLY 1 1/2 TO 2 TON5 PER ACRE (10 TO 90 LB5./1,000 5Q.FT.)

GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED

INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS,

REPLACEMENTS AND RESEEDINGS.

MIXTURE IS MARCH 1 TO APRIL 30.

- CENTER

PERSPECTIVE VIEW

TOP VIEW

STAPLE 7

for Geotextile Class F:

Flow Rate

Tensile Strength

Filtering Efficiency

folded and stapled to prevent sediment bypass.

Tensile Modulus

JOINING TWO ADJACENT SILT

FENCE SECTIONS

SECTION A

FEBRUARY 26. PROJECT SITE BY: OPTION (1) - TWO TONS PER

POSSIBLE IN THE SPRING; OPTION (2) - USE 500; OPTION (3) -

ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS

SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH

OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING.

ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200

ASPHALT ON FLAT ACRES. ON SLOPES & FEET OR HIGHER USE

348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING

* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVETCH AT 15

THE SEEDING REQUIRMENT. OPTIMUM SEEDING DATE FOR THIS

10' MAXIMUM CENTER TO

LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS/ACRE AS

36" MINIMUM LENGTH FENCE POST,

-16" MINIMUM HEIGHT OF

- FENCE POST SECTION MINIMUM 20" ABOVE

- FENCE POST DRIVEN A

STANDARD SYMBOL

Test: MSMT 509

Test: MSMT 509

Test: MSMT 322

MINIMUM OF 16" INTO

UNDISTURBED

GROUND

GEOTEXTILE CLASS F

- 8" MINIMUM DEPTH IN

GROUND

CROSS SECTION

0.3 gal ft 1/ minute (max.) Test: MSMT 322

EDGE OF MAT:

24" APPORT

PLACE STAPLES

LONGITUDINALLY

36" MINIMUM FENCE -

FLOW

EMBED GEOTEXTILE CLASS F

Construction Specifications

around. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter

(minimum) round and shall be of sound quality hardwood. Steel posts will be

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the

standard T or U section weighting not less than 1.00 pond per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties

50 lbs/in (min.)

20 lbs/in (min.)

3. Where ends of geotextile fabric come together, they shall be overlapped,

4. Silt Fence shall be inspected after each rainfall event and maintained when

bulges occur or when sediment accumulation reached 50% of the fabric height.

75% (min.)

or staples at top and mid-section and shall meet the following requirements

INTO THE GROUND

SECTION B

A MINIMUM OF B" VERTICALLY

FILTER

CLOTH -

POST LENGTH

DRIVEN A MINIMUM OF 16" INTO

WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD

(1.4 LBS./1.000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND

2 LBS. PER ACRE (0.05 LBS./1.000 SQ.FT.) OF WEEPING

(9 LB5./1,000 SQ.FT.) AND 500 LB5. PER ACRE (11.5 LB5./

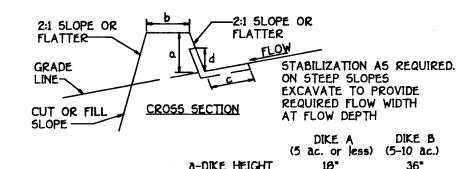
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

IF NOT PREVIOUSLY LOOSENED. **SOIL AMENDMENTS:** APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.)

FOR THE PRERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15. SEED WITH 1 1/2 BUSHEL PER ANNUAL RYE (3.2 LBS./1.000 SO.FT.)FOR THE PERIOD MAY 1 THRU AUGUST 14 SEED WITH 3 LBS/ACRE OF WEEPING LOVEGRASS (.07 LBS/10005Q.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES. ON SLOPES & FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

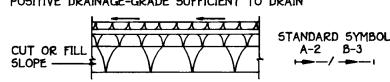
REFER TO THE 1988 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



b-dike width

c-FLOW WIDTH

d-FLOW DEPTH POSITIVE DRAINAGE-GRADE SUFFICIENT TO DRAIN



CONSTRUCTION SPECIFICATIONS

- 1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT 2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET. 3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF
- DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC. 4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. 5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT
- BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED. 6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART

FLOW CHANNEL STABILIZATION

	TYPE OF IREATMENT	CHANNEL GRADE	<u>DIKE A</u>	DIKE B
	1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
	2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
	3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4"-8"
	4	8.1-20 %	LINED RIP-RAP 4"-8"	ENGINEERING DESIGN

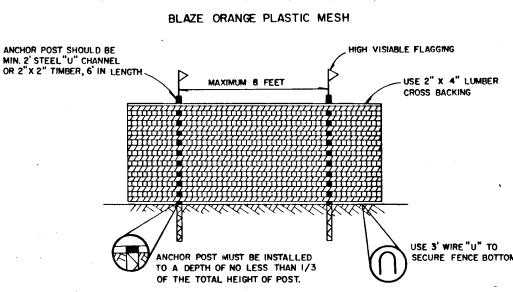
- A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
- B. RIP-RAP TO BE 4-0 INCHES IN A LAYER AT LEAST 0 INCHES THICKNESS AND PRESSED INTO THE SOIL.
- C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
- 7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

EARTH DIKE

CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding
- The rock or gravel shall conform to the specified grading limits when nstalled respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional shall hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- 4. Stone for the riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlyin materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogenous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

RIP-RAP CHANNEL DESIGN DATA STRUCTURE AREA RIP-RAP SIZE BLANKET THICKNESS PERIMETER 9.58 9.89 0.97 0.98 0.50 0.0707 3.58 1.47 0.04 2.58 23.13 9.5" 15" 19" 7-3 9.83 10.11 0.97 0.98 0.50 0.0707 3.00 1.59 0.04 2.59 24.83 9.5 15 19



TREE PROTECTION DETAIL

OWNER/DEVELOPER

MT. HEBRON, INC.

MR. H. JONES BAKER, JR.

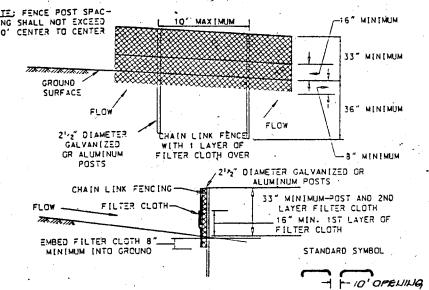
2106 MT. HEBRON DRIVE

ELLICOTT CITY, MARYLAND, 21042

FOREST PROTECTION DEVICE ONLY.
RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED
PRIOR TO INSTALLING DEVICE.
ROOT DAMAGE SHOULD BE AVOIDED.
PROTECTIVE SIGNAGE MAY ALSO BE USED.
DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

I-2 AND I-1.

- OBTAIN GRADING PERMIT. INSPECTION DIVISION (410)313-1880, 24 HOURS BEFORE STARTING
- ANY WORK. INSTALL TREE PROTECTION FENCE.
- STABILIZED SEDIMENT CONTROL MEASURES WITH TEMPORARY SEEDING GRADE SITE AND STABILIZE WITH PERMANENT SEEDING. CONSTRUCT ALL UTILITIES: STORM DRAINS AND WATER AND SEWER
- 10. CONSTRUCT CURB AND GUTTER. 11. REMOVE STABILIZED CONSTRUCTION ENTRANCE AND INSTALL BASE COURSE OR TYPICAL PAVING SECTION.
- CONSTRUCT SIDEWALK AND LANDSCAPING REMOVE SEDIMENT FROM ROADWAY, APPLY TACK COAT AND INSTALL
- A PERMANENT FACILITY AND STABILIZED WITH PERMANENT SEEDING. 16. INSTALL INLET PROTECTION ON INLETS I-10, I-9, I-8, I-7, I-6, I-5, I-4, I-3,



Construction Specifications

Fencing shall be 42 inches in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6 foot fence shall be used substituting 42 inch fabric and 6 foot length posts.

- 1. The pales do not need to set in concrete.
- 2. Chain link fence shall be fastened securely to the fence
- 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section. 4. Filter cloth shall be embedded a minimum of $\mathfrak{b}^{\,\prime\prime}$ into the
- 5. When two sections of filter cloth adjain each other, they snall be overlapped by 6" and folded. 6. Mgintenance shall be performed as needed and silt buildups

SUPER SILT FENCE

NOT TO SCALE

SEQUENCE OF CONSTRUCTION

- NOTIFY MISS UTILITY 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777 NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION
- INSTALL SEDIMENT CONTROL MEASURES; STABILIZED CONSTRUCTION ENTRANCE, PERIMETER DIKE/SWALE AND SILT FENCE CLEAR AND GRUB SITE.
- CONSTRUCT STORMWATER MANAGEMENT FACILITY AND ALL AMENTITIES.
- ROAD SURFACE. AS PERMISSION IS GRANTED BY E/S INSPECTOR SEDIMENT CONTROL
- MEASURES ARE TO BE REMOVED. ALL DISTURBED AREAS ARE TO BE GRADED AND STABILIZED WITH PERMANENT SEEDING. STORMWATER MANAGEMENT FACILITY TO BE REGRADED, CONVERTED TO
- NOTE: FENCE POST SPAC-ING SHALL NOT EXCEED 10' CENTER TO CENTER

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 owners(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.

ENGINEER'S CERTIFICATE

"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 sife 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 redistered professional engineer to supervise pond construction and provide the Howard Soil Conservation District

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 Conser-

vation district with an "as-built) plan of the pond within 30 days of completion. I also

These plans for small pond construction, soil erosion and sediment control meet the

These plans have been reviewed for the Howard Soil Conservation District and meet the

4/1/96

3-18-96

Date

technical requirements for small-post construction, soil erosion and sediment control.

authorize periodic on sife inspections by the Howard Soil Conservation District".

with an 1-as-built" plan of the pond within 30 days of completion.

CHILL CHARLES J. CROVOSR

Signature of Engineer (Print name beside signature)

Lones (a/th H. JONES BAKAKJA.

equirements of the Howard Soil Conservation District.

Warlied MAC

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, DEVELOPMENT ENGINEERSING DIVISION M.K.

wohen M. Saneto

APPROVED: DEPARTMENT OF PUBLIC WORKS

Division of Land Development and Research

Signature of Developer (Print name beside signature)

Howard Soil Conservation District

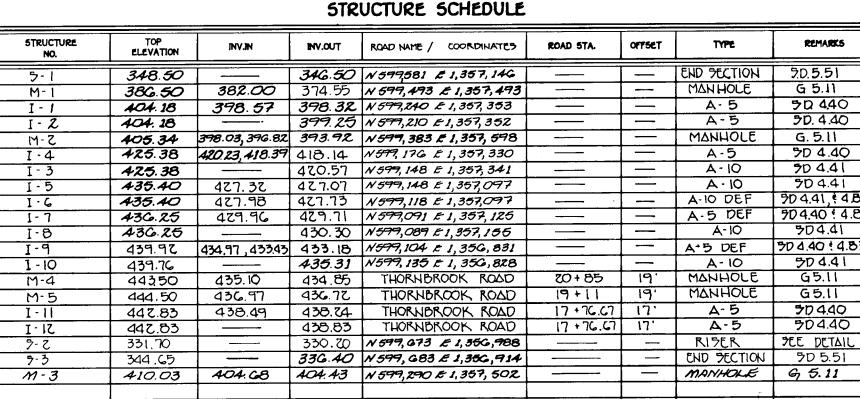
Jung Dunname.

Chief, Bureau of Highways

AS-BUILT CERTIFICATION

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

Certify means to state or declare a professional opinion based 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 confract, employment, or other means, including meeting commonly accepted



EX. GROUND. RIP-RAP CHANNEL DETAIL (NO SCALE)

NOTE: MAT WINTH IS 48" ± 1". SEE SPECIFICATIONS FOR "SOIL STABILIZATION

MATTING" FOR DETAILS OF MAT. USE SEED MIX SPECIFIED MULCH IS NOT PEQUIPED, WHEN TOPSOIL IS SPECIFIED IN THE AREA ADJACENT TO THAT WHEIRE SOIL STABILIZATION MATTING IS TO BE CONSTITUTED IT SHALL ALSO BE PLACED AT THE SAME DEPTH IN THE AREA WHERE SOIL STABILIZATION MATTING IS REQUIRED, ITTION TO THE INSTALLATION OF THE MATTING.

PLACE STAPLES 24" APART LONGITUDINALLY AS REQUIRED TO KEEP THE MATTING FIRMLY PRESSED TO THE SOIL DO NOT HAVE SPACE BETWEEN MATTING BLATY END OF MATTING, C" INTO SOIL, TAMP EVEN -BTAITLE AT C" INTERVALS BURY LITERADE END OF MATTING G" IN SOIL, TAMP EDGE OF MAT: EVEN. OVERLAP UPTER PLACE STAPLES 24" STATE C" OVER LOWER STRIP APART LONGITUDINALLY STAPLE AT G" INTERVALS.

> 11 (O.1205) GAUGE WIFE OR HEAVIER LATERAL

SPACING OF STAPLES TO

BE AT EDGE OF MAT, AT

OVERLAP OF MATS AND AT

BREAK IN GROUND OR MID-

POINT OF MAT WHERE NO

NOTED ON

4" OVERTIME OF MATTING, STRIPS WHEN 2 OR MOTHE STRIP WITHE

ARE REQUIRED. STAPLE AT 18

BARRAKS OCCUP FOR THAT MAT GRASS CHANNEL LINING PLACEMENT

PROBLEMS IDENTIFIED DURING INSPECTIONS WILL BE PROMPTLY CORRECTED. MAJOR PROBLEMS WILL BE BROUGHT TO THE ATTENTION OF THE SOIL CONSERVATION DISTRICT AND THE DAM SAFETY DIVISION OF THE MARYLAND WATER RESOURCES ADMINISTRATION. AS A VERY MINIMUM, GRASSY VEGETATION WILL BE MAINTAINED IN A DENSE AND HEALTHY STATE, AND WOODY VEGETATION WILL NOT BE PERMITTED TO GROW ON THE EMBANKMENT.

SEDIMENT CONTROL NOTES AND DETAILS. STORMWATER MANAGEMENT NOTES AND SPECIFICATIONS

OPERATION AND MAINTENANCE SPECIFICATIONS

LOOKED AT INCLUDE:

RIP-RAP:

VEGETATIVE COVER;

CRACKS IN THE FILL;

SLOPE FAILURES; AND

I HEREBY CERTIFY THAT I WILL OPERATE AND MAINTAIN THE

PERIODIC INSPECTIONS OF THE FACILITY WILL BE MADE TO IDENTIFY

AT LEAST TWICE ANNUALLY, INSPECTION REPORTS SHALL BE KEPT

SEEPAGE AND OTHER SIGNS OF DISTRESS.

UNTIL THE NEXT SUBSEQUENT INSPECTION. INSPECTION ITEMS TO BE

INSPECTIONS WILL BE MADE AFTER PERIODS OF HEAVY RAINFALL AND

POTENTIAL PROBLEMS THAT MAY AFFECT ITS SAFETY. THESE

SPILLWAY AND OUTLET WORKS;

COMPLETED POND IN ACCORDANCE WITH THE FOLLOWING:

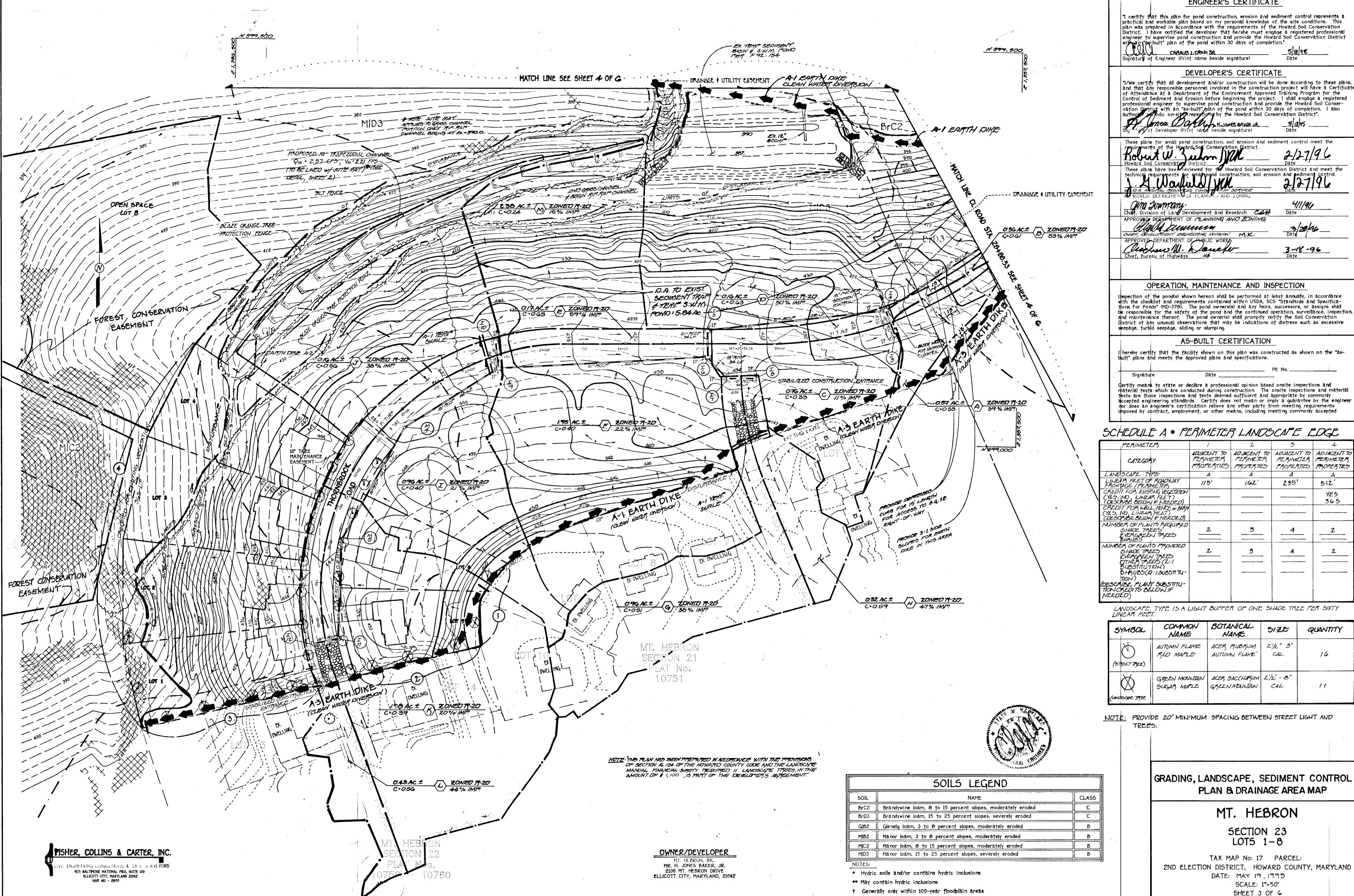
MT. HEBRON

SECTION 23 LOTS 1-8

TAX MAP No: 17 PARCEL: 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

> DATE: MAY 19, 1995 SCALE: 1"=50" SHEET 2 OF 6

> > F95-167



ENGINEER'S CERTIFICATE

"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

"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

3-18-96

OPERATION, MAINTENANCE AND INSPECTION

with the chedklist and requirements contained within USDA, SCS "Standards and Specifications For Ponds" (MD-378). The pond owners(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.

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.

Certify means to state or declare a professional opinion based 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

SCHEDULE A · PERIMETER LANDSCAPE EDGE

	PERIMETER	/	Z	3	4
	CATEGORY	ADVACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	PERIMETER
\	LANDSCAPE TYPE	A	Α	Α	A
\setminus	LINEAR FEET OF ROADKIAY FRONTAGE / PERIMETER	//5'	162'	235'	512'
	CREDIT FOR EXISTING VEGETATION (YES. IND , LINEAR FEET) (DESCRIBE BELOW IF NIEEDED)				YE5 365
	CREDIT FOR WILL, FENCE OF BERM (YES, NO. LINEAR) FEET) (DESCRIBE BELOW IF NEEDED)				
	MUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES BHRUBS		<u> </u>	4	
	NUMBER OF FLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (0:15UBSTITU- TION) (DESCRIBE PLANT SUBSTITU- TION CREDITS BELOW IF		· 3	4	2
	NEEDED)				

SYMBOL		COMMON BOTANICAL SIZE NAME NAME		5/ZE	QUANTITY	
STREET	T TREE)	AUTUMN FLAME REO MAPLE	ACER RUBRUM AUTUMN FLAME	2½" 3" CAL.	16	
WOSCAP) TE 1195E	GREEN MOUNTAIN SUGAR MAPLE	ACER SACCHARUM GREEN MOUNTAIN	2'/2" - 8" CAL	11	

NOTE: PROVIDE 20' MINIMUM SPACING BETWEEN STREET LIGHT AND

GRADING, LANDSCAPE, SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP

SECTION 23

TAX MAP No: 17 PARCEL: 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND DATE: MAY 19, 1995 SCALE: 1"=50'

