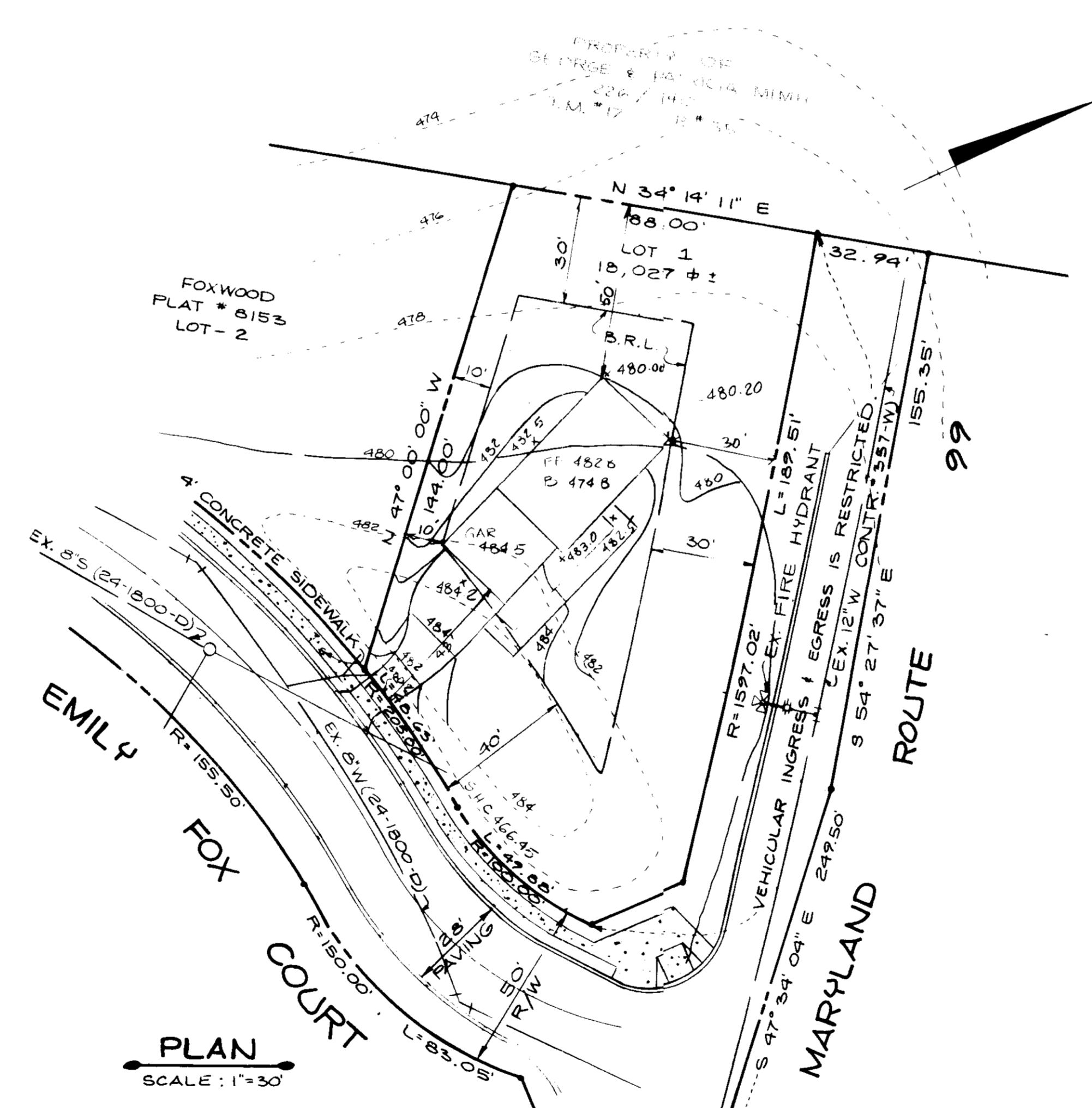
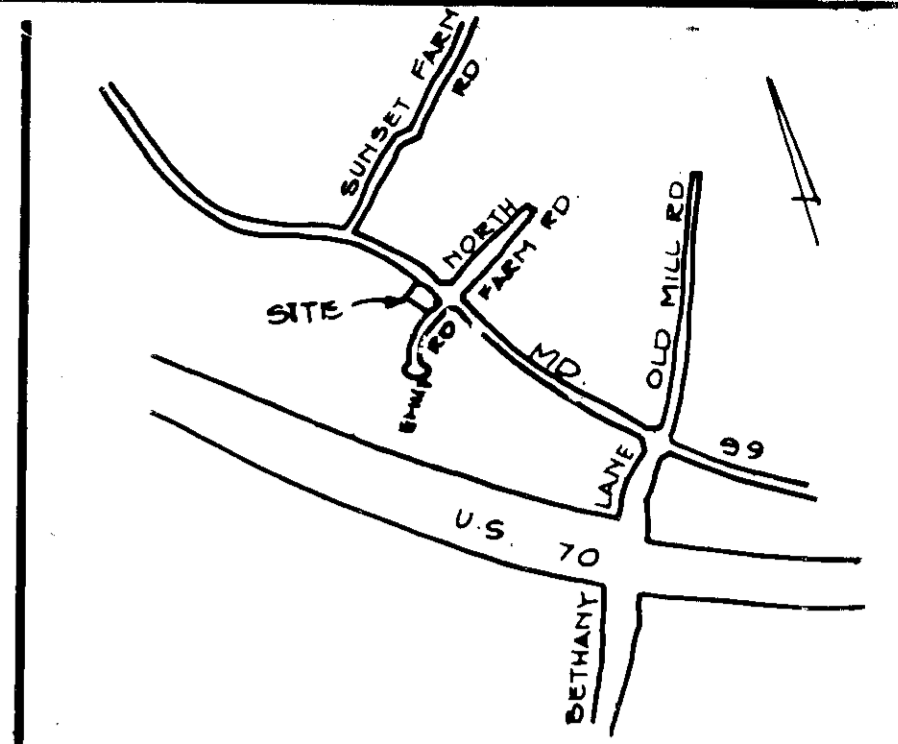
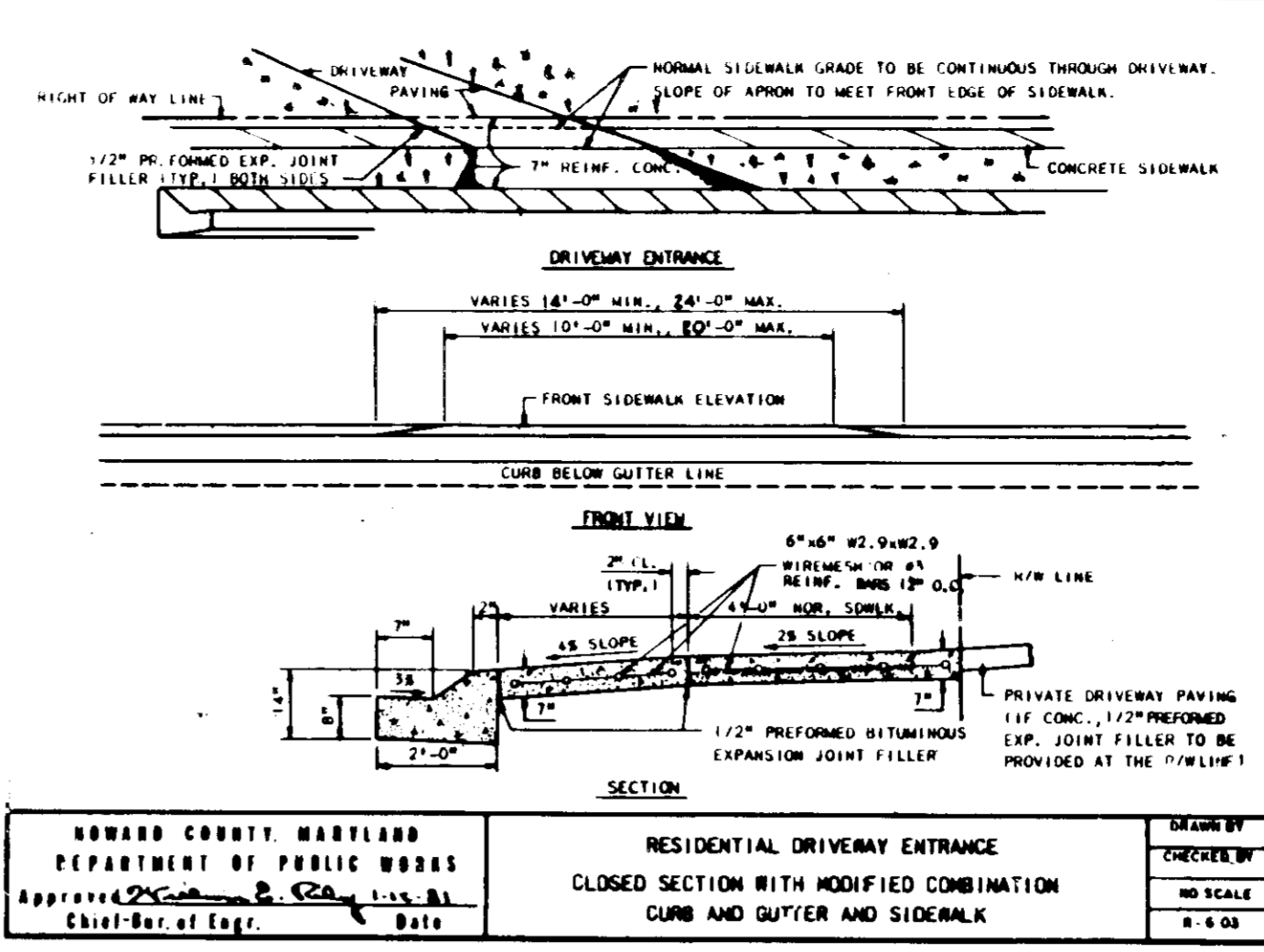


**SEDIMENT CONTROL PLAN**  
SCALE: 1" = 30'



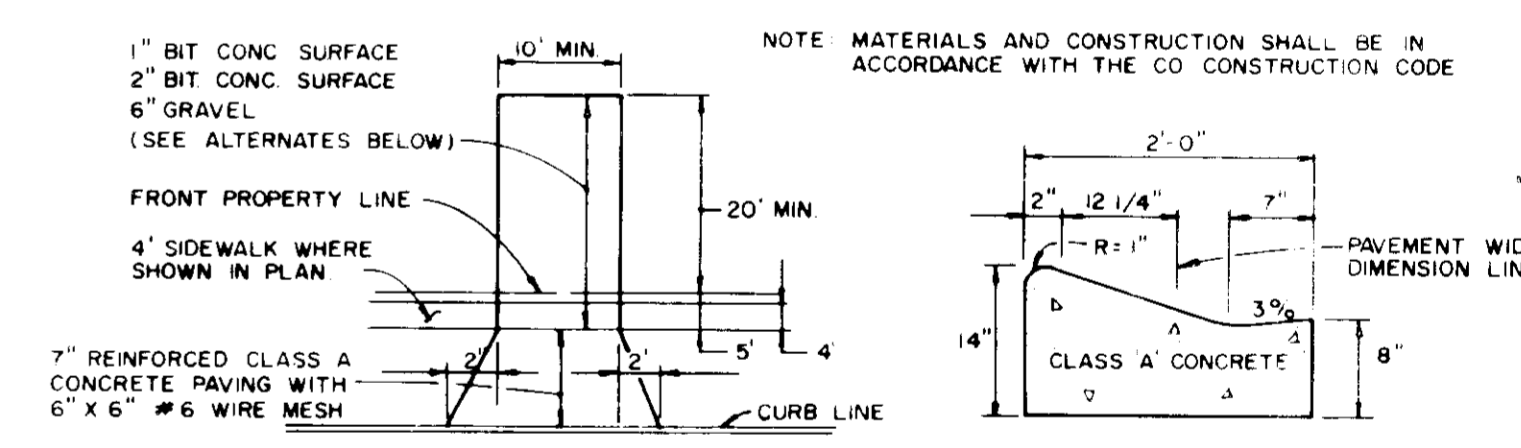
**PLAN**  
SCALE: 1" = 30'



**VICINITY MAP**  
SCALE: 1" = 1200'

- GENERAL NOTES:**
- The land included is zoned: R-20
  - Coordinates are based upon traverse controls established for Howard County, and which controls were tied to the Maryland State coordinate system.
  - All roads are public and existing.
  - Any damage to county owned right of way to be corrected at the owners expense.
  - Total area included: 0.32 Acres
  - Total number of lots: 1
  - The contractor or developer shall contact Howard County Construction/ Inspection Division, 24 hours in advance of commencement of work at 792-7272.
  - SEE F-88-252
  - ALL STREETS ARE PUBLIC
  - STORM WATER MANAGEMENT HAS BEEN PROVIDED UNDER F-88-232

- LEGEND**
- 1- Contour interval: EVERY TWO FEET
  - 2- Existing contour: Dashed line
  - 3- Proposed contour: Solid line
  - 4- Spot elevation: Circle with number
  - 5- Direction of drainage: Arrow with 'S'
  - 6- Silt fence: Line with 'S'
  - 7- Stabilized construction entrance: Line with 'S'
  - 8- Dike: Line with 'S'

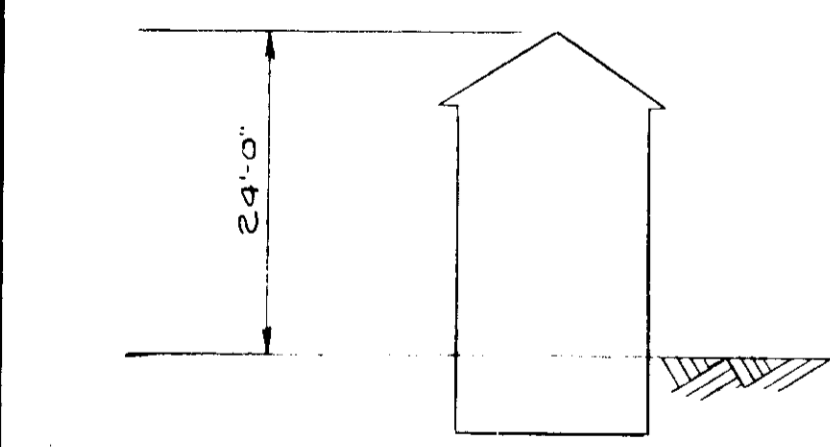
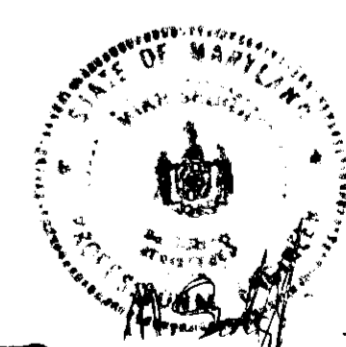


**DRIVEWAY ABUTTING, MOD. COMB. CURB & GUTTER**

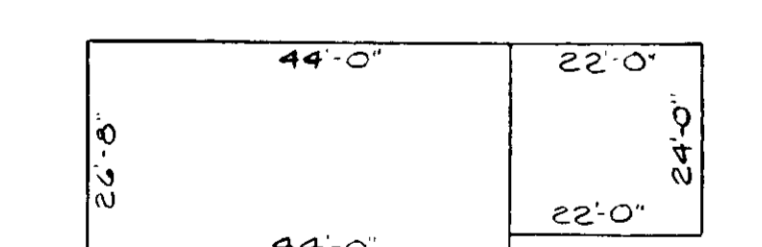
**APPROVED**  
DIVISION OF  
COMMUNITY PLANNING  
& LAND DEVELOPMENT  
HOWARD COUNTY,  
MARYLAND  
DATE: 12-15-88

**OWNER**  
HAYES BUILDING CONTRACTORS  
3205 CORPORATE COURT  
ELLICOTT CITY, MD 21043

ADDRESS CHART	
LOT NO.	STREET ADDRESS
1	10000 EMILY FOX COURT



**PLAN**  
NOT TO SCALE



**TYPICAL ELEVATION**  
NOT TO SCALE

APPROVED OFFICE OF PLANNING AND ZONING  
PLANNING DIRECTOR: *[Signature]* DATE: 2-3-89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* DATE: 2-24-89  
APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS: *[Signature]* DATE: 2/16/89

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWERAGE SYSTEMS AND ROADS: *[Signature]* DATE: 2-10-89  
CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 2-10-89  
FOXWOOD SUBDIVISION  
LOT NO. 1  
WATER CODE: H03 SEWER CODE: 5758200

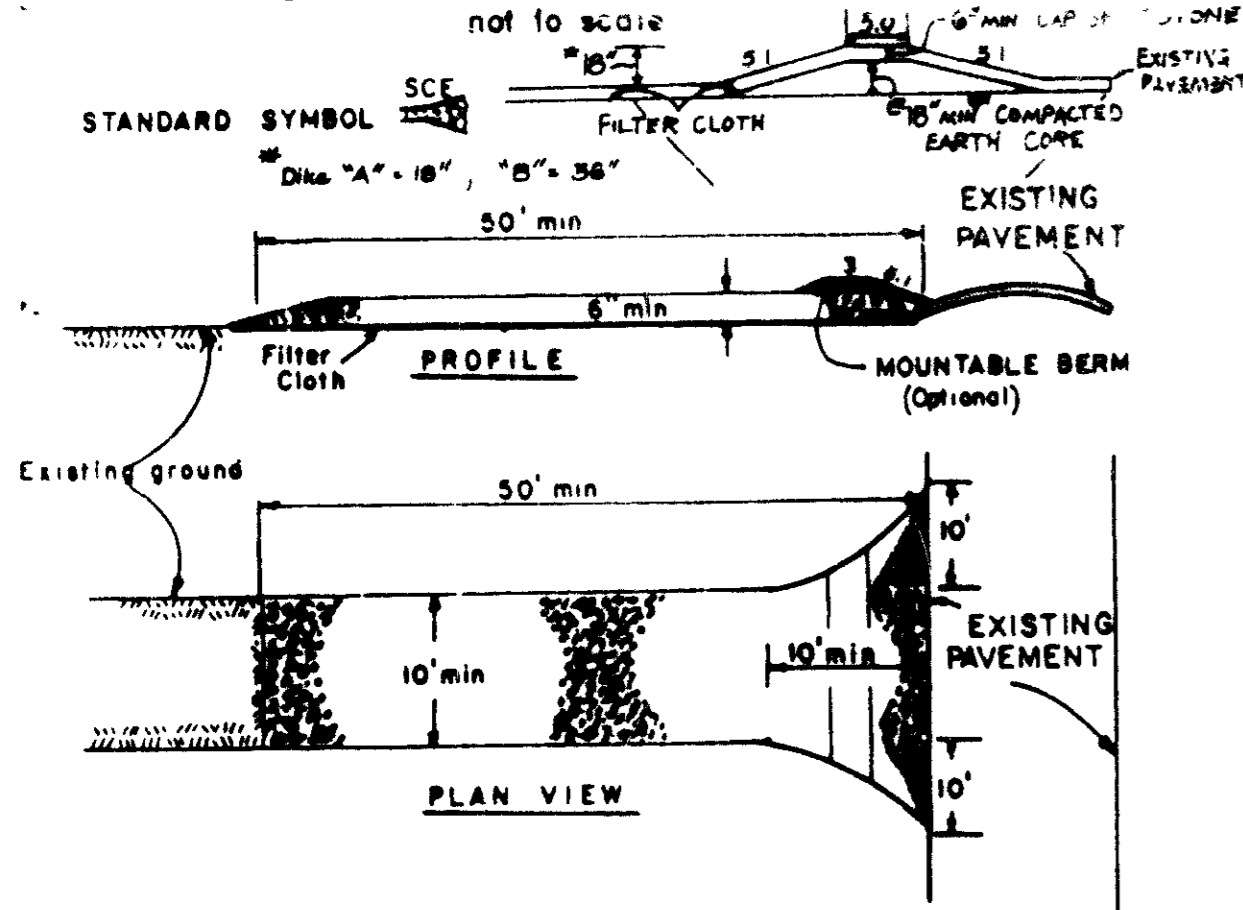
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS: *[Signature]* DATE: 2/10/89  
SOIL CONSERVATION SERVICE  
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
APPROVED: *[Signature]* DATE: 11-18-88

**ENGINEER'S CERTIFICATE**  
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOILS CONSERVATION DISTRICT  
SIGNATURE OF ENGINEER: *[Signature]* DATE: 11-18-88

**DEVELOPER'S CERTIFICATE**  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
SIGNATURE OF DEVELOPER: *[Signature]* DATE: Nov 18 1988

**LORIA, SEDGHI & ASSOCIATES LTD.**  
ENGINEERS & PLANNERS - SURVEYORS  
3217 CORPORATE COURT  
ELLICOTT CITY, MD 21043  
(301) 750-9003  
**SITE DEVELOPMENT PLAN  
GRADING & SEDIMENT CONTROL  
FOXWOOD SUBDIVISION**  
LOT - 1  
2ND ELECTION DISTRICT  
TAX MAP #17 PARCEL 86  
HOWARD COUNTY, MARYLAND  
DATE: NOV. 21, 1988  
SCALE: 1" = 30'  
SHEET 1 OF 2

**STABILIZED CONSTRUCTION ENTRANCE**



**CONSTRUCTION SPECIFICATIONS**

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 than 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 cleanup of any measures used to trap sediment. All sediment spilled, dropped, or tracked onto public rights-of-way must be removed immediately.
8. 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 device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

APPLY TO GRADED OR CLEARED AREA LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED

**Soil Amendments:** IN LIEU OF SOIL TEST RECOMMENDATIONS-USE THE FOLLOWING SCHEDULES

1. Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs /1000 sq ft) and 100 lbs per acre 10-10-10 fertilizer (14 lbs /1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (91bs./1000 sq ft.)
2. Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs /1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs /1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil.

**Seeding** - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1 1/2 lbs /1000 sq ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs /1000 sq. ft.) of weeping lovegrass. During the period of October 15 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching** - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs /1000 sq ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 219 gallons per acre (3 gal /1000 sq ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq ft.) of anchoring.

**Maintenance** - Inspect and perform minor and major repairs, replacements and reseeding.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREA LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED

**Soil Amendments:** Apply 60 lbs per acre 10-30-10 fertilizer (14 lbs /1000 sq ft.)

**Seeding** - For period March 1 thru April 30 and from August 15 thru November 15, seed with 24 lbs per acre of annual ryegrass (2 1/2 lbs /1000 sq ft.). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs /1000 sq 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.

**Mulching** - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs /1000 sq ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 219 gal per acre (3 gal /1000 sq ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal /1000 sq ft.) of anchoring.

REFER TO THE 1983 MD STANDARD AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED

**STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD**

**SPECIFICATIONS**

1. Class of turfgrass sod shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.
2. Sod shall be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.
3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
4. Individual pieces of sod shall be cut to the suppliers width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pads and torn or uneven ends will not be acceptable.
5. Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transplanted within this period shall be inspected and approved prior to its installation.

**1. Site Preparation**

Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown under B, below.

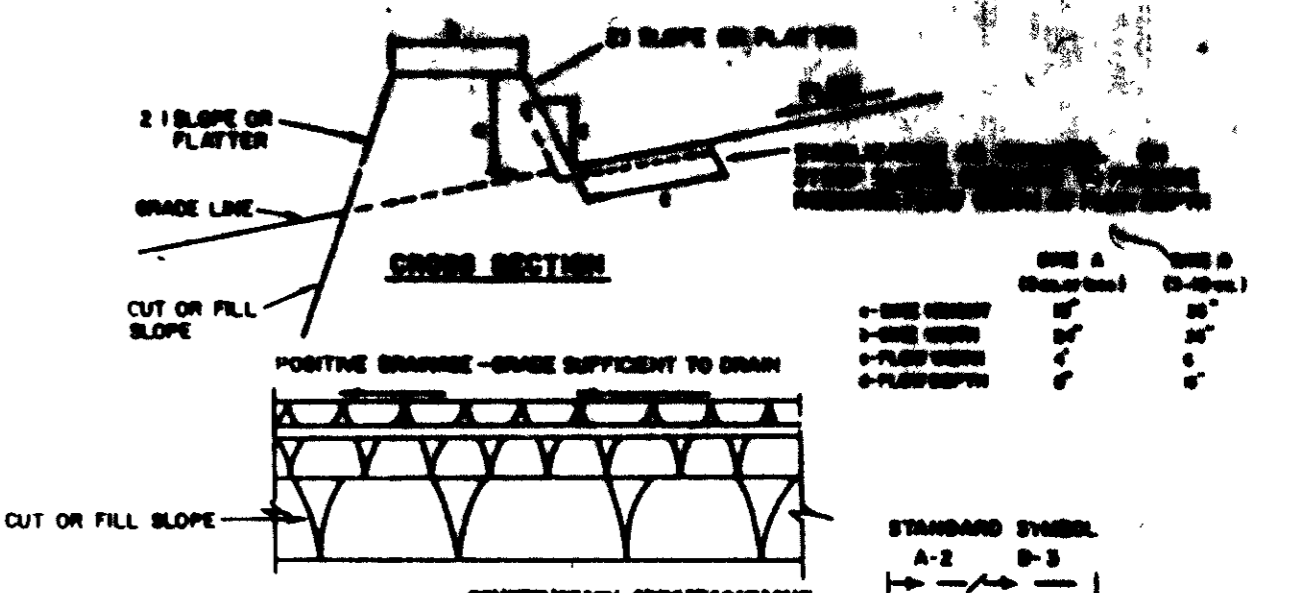
- A. Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations.
- B. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre or 100 pounds per 1,000 square feet. In all soils, 1,000 pounds per acre or 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.
- C. All areas receiving sod shall be uniformly fine graded. Hard-packed earth shall be scarified prior to placement of sod.

**SEDIMENT CONTROL NOTES**

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection 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 slopes 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 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) 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 dikes do not allow for proper germination and establishment of grasses.
- 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: 0.41 Acres  
Area Disturbed: 0.14 Acres  
Area to be roofed or paved: 0.05 Acres  
Area to be vegetatively stabilized: 0.064 Acres  
Total Cut: 100 Cu yds  
Total Fill: 100 Cu yds  
Offsite waste/borrow area location: N/A
- 8) 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 control must be provided, if deemed necessary by the Howard County DEM 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.
- 11) If houses are to be constructed on an "As-Bid" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
- 12) All pipes to be blocked at the end of each day (see detail below).
- 13) The total amount of straw bale dikes/silt fence equals 200 LF.

**GENERAL NOTES**

- 1) Refer to "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for standard details and details for each practice specified herein.
  - 2) With the approval of the sediment control inspector, means can and shall be used to insure the amount of sediment in sediment traps and the required grade control, control inspection and maintenance. County Soil Conservation District, Howard County, Maryland.
  - 3) At the end of each working day, all sediment control practices shall be inspected and kept in good working condition.
  - 4) 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 slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
  - 5) Any change to this plan shall be submitted to the Howard County Office of Inspection and Permits.
  - 6) Dike construction shall be in accordance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
  - 7) Any vegetation shall be in accordance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
  - 8) Erosion cut or borrow shall be at 20 or more feet, independently, a site with an approved sediment control plan.
- The following items may be used as applicable:
- 9) Refer to "Maryland's Standards and Specifications for Highway Construction" and the "Resource Administration (RAC)", dated January, 1982 for detailed and detailed specifications of each practice specified herein for highway construction.



1. ALL DIKES SHALL BE CONSTRUCTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE VARIOUS 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 SLOPE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF SEDIMENT. TRUFFS SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR 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, (B) FLOW CHANNEL AS PER THE CHART BELOW.

**FLOW CHANNEL STABILIZATION**

TYPE OF TREATMENT	CHANNEL SIZE	DIKE A	DIKE B
1	5-3.0X	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0X	SEED AND STRAW MULCH	SEED USING JUTE, OR SCERLATION; SOD; 2" STONE
3	5.1-8.0X	SEED WITH JUTE, OR SOD, 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20X	LINED RIP-RAP 4-8"	ENGINEER'S 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 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.  
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  
PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

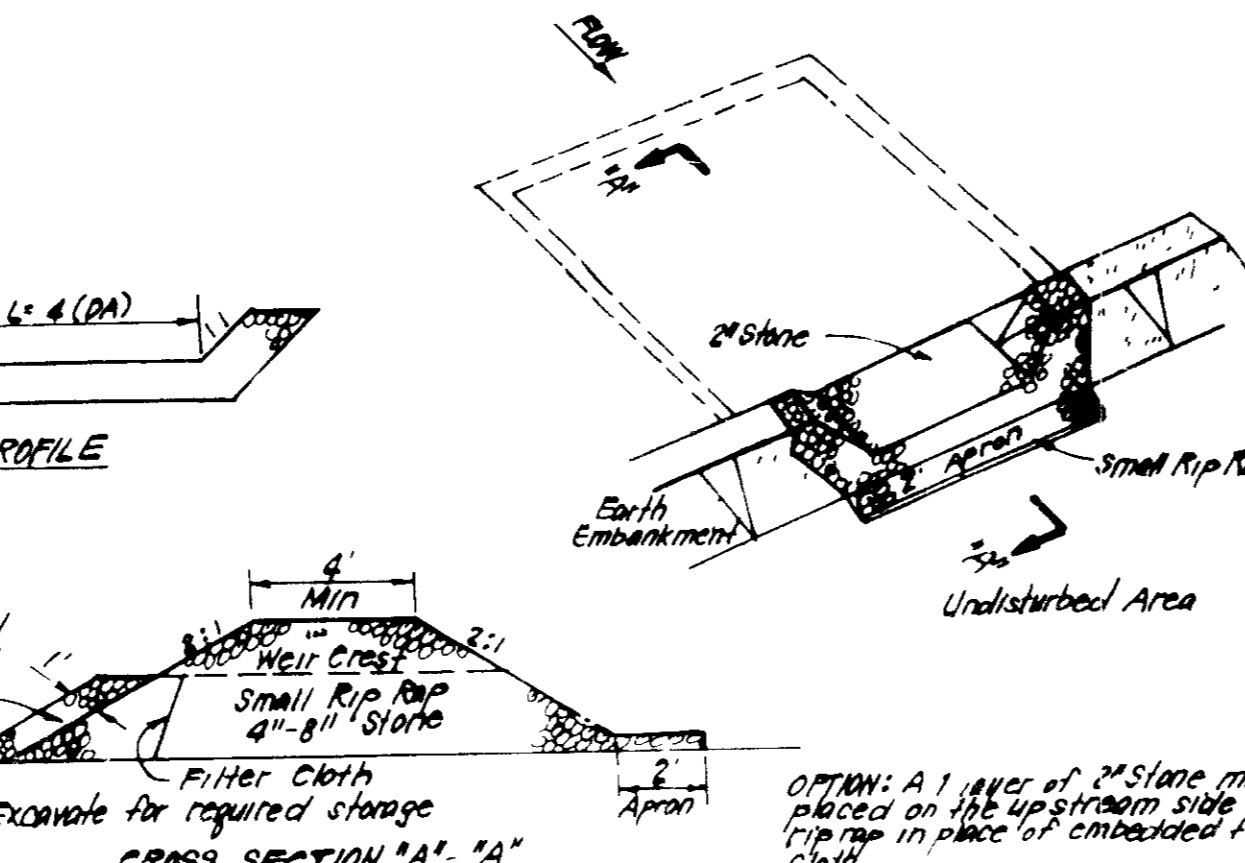
**EARTH DIKE**

NO SCALE

**CONSTRUCTION SEQUENCE**

- 1- Obtain grading permit.
- 2- Install sediment & erosion control measures.
- 3- Clear and rough grade site.
- 4- Construct houses and driveways.
- 5- Fine grade and stabilize all disturbed areas in accordance with standards & specs.
- 6- Remove sediment & erosion control measures once all areas draining to them are stabilized.

APPROVED  
FOR THE BOARD OF PLANNING AND ZONING  
HOWARD COUNTY  
MARYLAND  
DATE: 12-15-88  
JL



**CONSTRUCTION SPECIFICATIONS:**

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The top 1/2" shall be covered.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as any sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small rip rap 4"-8" along with 1" thickness of 2" aggregate placed on the upstream side of the outlet.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

**STONE OUTLET SEDIMENT TRAP (S.O.S.T.) STV**

NO SCALE

Reviewed for HOWARD SCD  
and technical requirements  
Signature: [Signature] Date: 2-3-89  
U.S. SOIL CONSERVATION SERVICE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
Approved: [Signature] Date: 2-15-89

DEVELOPER'S/BUILDER'S CERTIFICATE  
I HEREBY CERTIFY THAT THE PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
DATE: 12/15/88

ENGINEER'S CERTIFICATE  
I HEREBY CERTIFY THAT THE PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
DATE: 12-15-88

DESIGNED	SCALE
SEDIMENT & EROSION CONTROL DETAILS	AS SHOWN
DRAWN	DRAWING
T.R.	2 OF 2
CHECKED	JOB NO.
DATE	FILE NO.
12-21-88	