

...not to grade or cleared areas not subject to immediate further disturbance where a permanent live vegetative cover is needed

Seedbed Preparation Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened

Soil Amendments In lieu of soil test recommendations use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 800 lbs per acre 15-10-10 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 (9 lbs/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 40 lbs per acre (1.4 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 (0.3 lbs/1000 sq ft) of seeding legumes. 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 218 gallons per acre (5 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) for anchoring

Inspect all seeded areas and make needed repairs, replacements and reseedings

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation 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)

Seeding For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of seeding legumes (0.3 lbs/1000 sq ft). For the period November 15 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 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEEDING NOTES

- 1) A minimum of 24 hour notice must be given to the user for the notice of inspection and permit prior to the start of construction (892-2437)
- 2) All work must be done in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
- 3) Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all 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) and (Sec. 52), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding rates 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: 1.86 Acres
Area to be roofed or paved: 1.19 Acres
Area to be vegetatively stabilized: 0.67 Acres
Total Cut: 3029.0 Cu yds
Total Fill: 2120.0 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 DPM 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 a "As-Built" basis, at random, Slope for Sediment Control as shown below shall be implemented
- 12) All pipes to be blocked at the end of each day (see detail below) N/A
- 13) The total amount of straw bale dikes/silt fence equals N/A

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CONSTRUCTION SEQUENCE	Days
A Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B Excavate for foundations and Rough Grade & temporarily Stabilize	30
C Construct Structures, Sidewalks and Driveways.	120
D Final Grade and stabilize in accordance with Stds & Specs.	30
E Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize	30

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Date: 10-10-88
Signature: [Signature]

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
Date: 10-20-88
Signature: [Signature]

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Date: 9-1-88
Signature: [Signature]

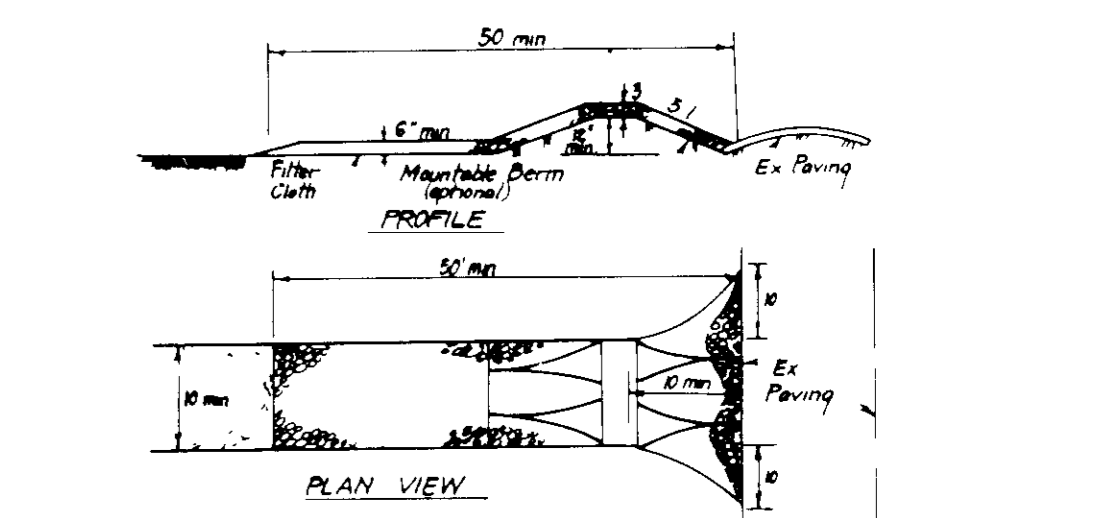
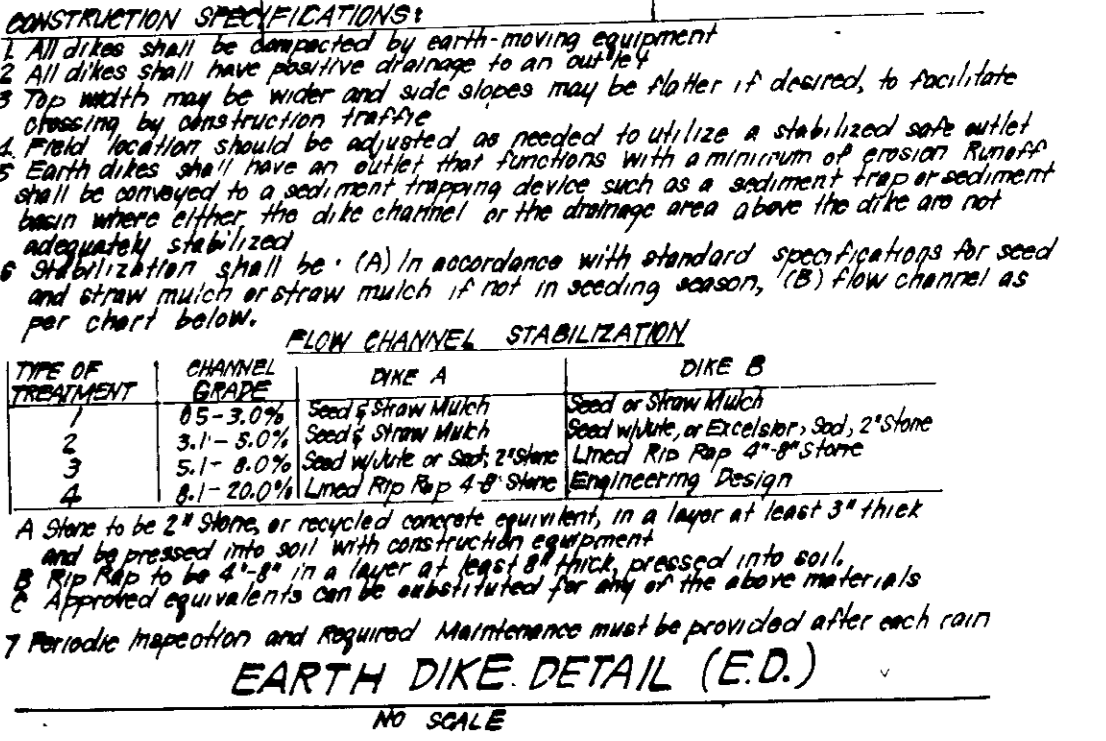
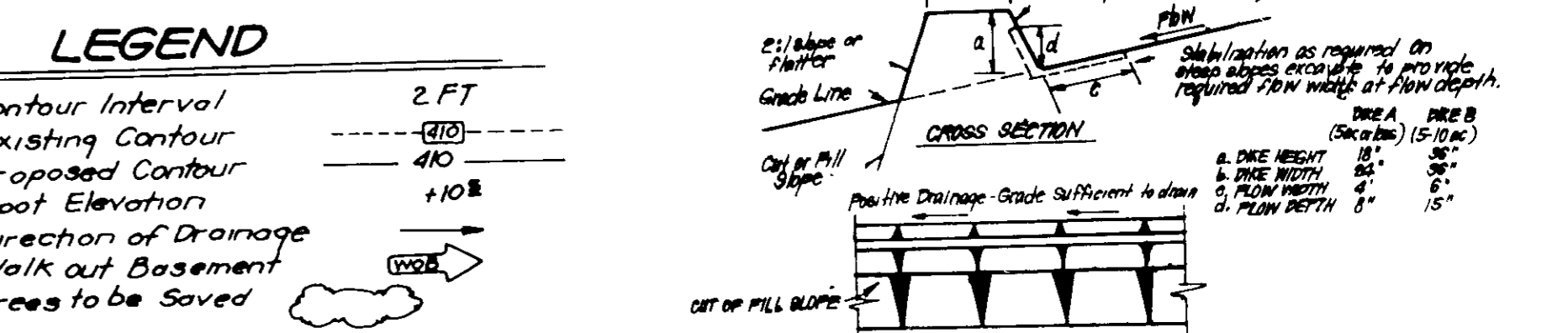
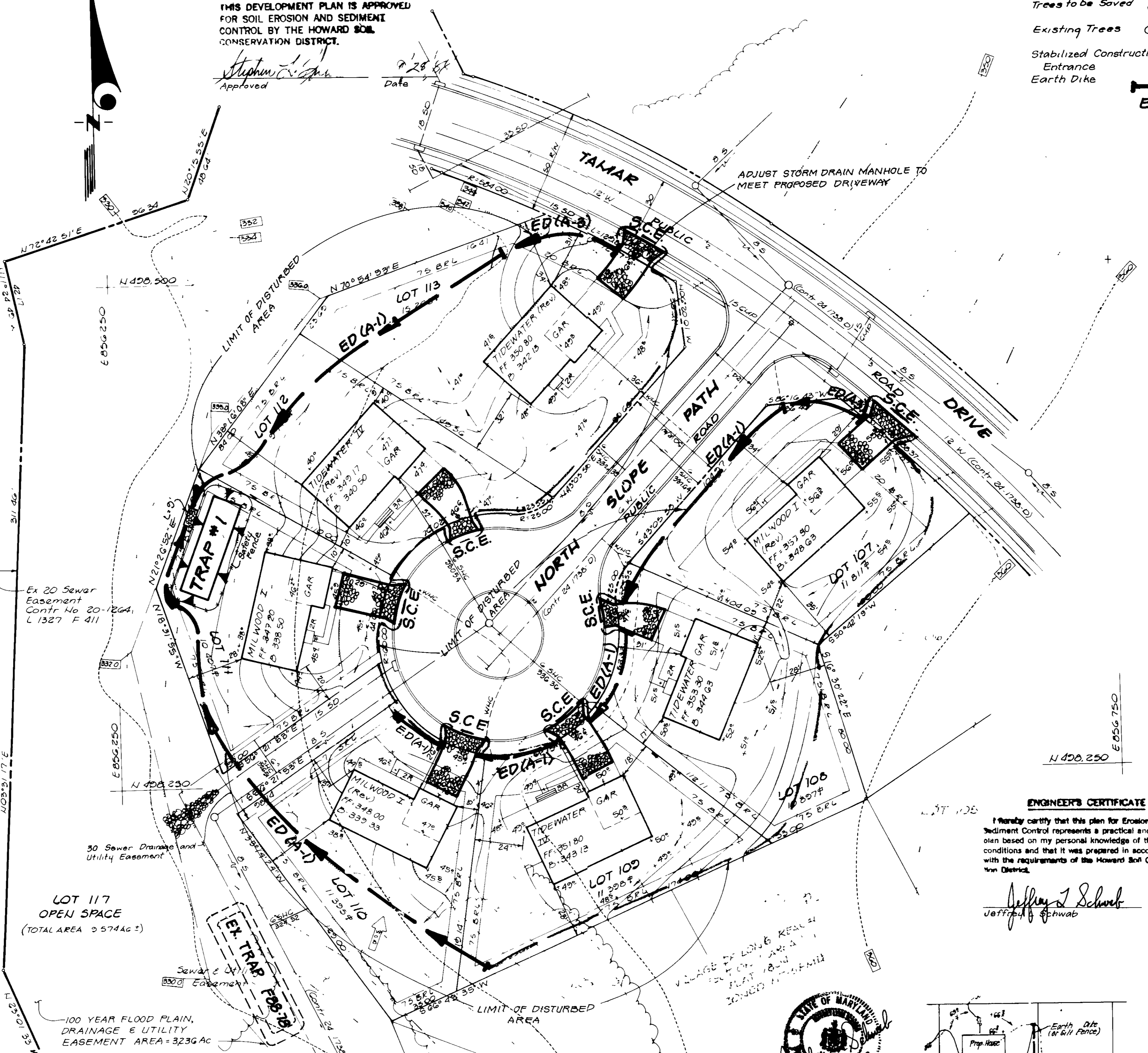
CHIEF BUREAU OF ENGINEERING
Date: 10-6-88
Signature: [Signature]

TRAP #1 SOST STV*
D.A. = 22AC
Storage Req = 22 x 1800 = 39600 CF
Storage Prov = 3960 CF
Depth = 5'
Top of Stone Crest = 335.5
Bottom Elev = 330.5
Cleanout Elev = 332.5
Bottom Dim = 51 x 14'
* 1:1 Side slopes in cut

Reviewed for Howard SCD
Name: [Name]
Signature: [Signature]
Date: 9-28-88
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

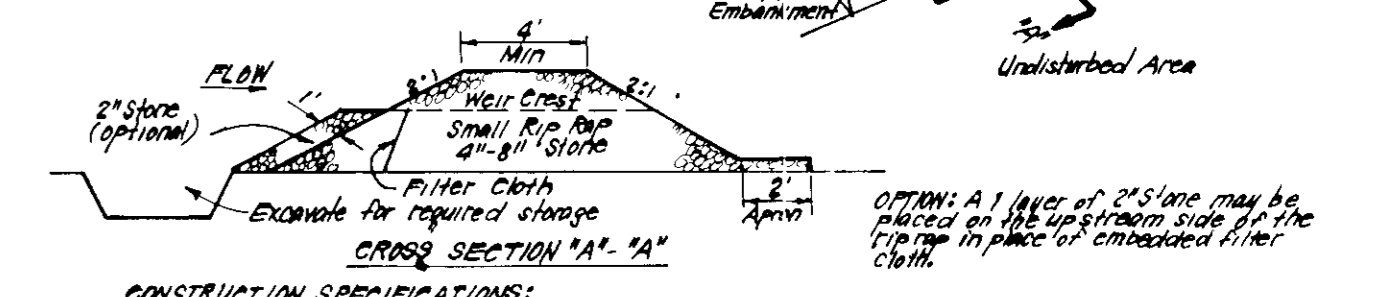
Approved: [Signature]
Date: 9-28-88



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 Soil Conservation District.

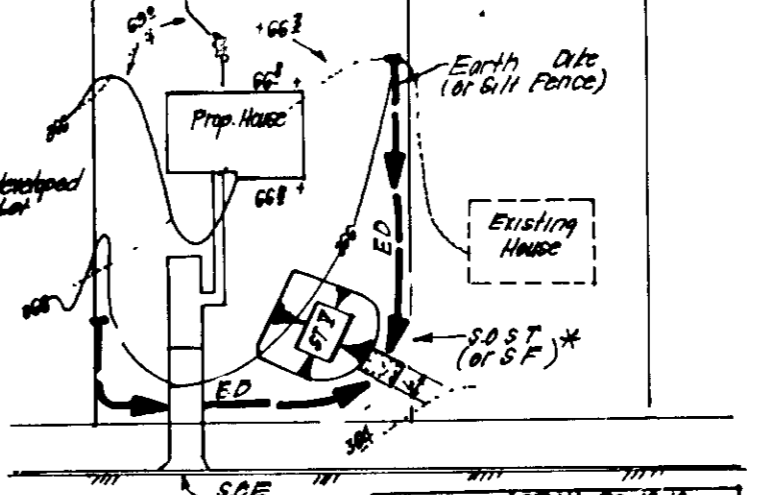
Jeffrey J. Schwab
Date: 8/11/88



DEVELOPER'S/BUILDER'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 Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary.

Harry C. Brown
Date: 8-11-88



DESIGNED	JLS
DRAWN	PER PDM
CHECKED	JLS
DATE	8-9-88

CLARK • FINEROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINISTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 - BALTO • (301) 621-8000 - WASH

SEDIMENT AND EROSION CONTROL PLAN

DESIGNED: JLS
DRAWN: PER PDM
CHECKED: JLS
DATE: 8-9-88

COLUMBIA VILLAGE OF LONG REACH SECTION 2 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

For: Williams, Inc.
10400 Little Patuxent Pkwy
Columbia Md 21044

SCALE: 1" = 30'
DRAWING: 2 of 2
JOB NO: 88 007
FILE NO: 88 0075E
SDP-89-33