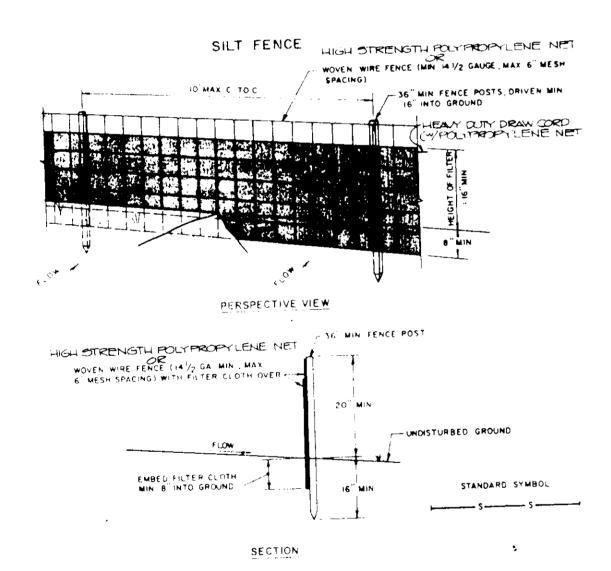


CONSTRUCTION SPECIFICATIONS

- 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 cleanout of any measures used to trap sediment. All
- sediment spilled, dropped, washed 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
- 9. Periodic inspection and needed maintenance shall be provided after each rain.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

POSTS: STEEL EITHER TOP MOVEN WIRE FENCE TO BE FASTENED SELURE. TYPE OF 2" HARDWOUL JC FENCE POSTS WITH WIRE THE' OF STAPLE FINCE: NOVEN WIRE, 14. GA. 6 NA. MESH OPENING FILTER CLOTH TO BE FASTENED SE URELY TO WOVER MIRE FENCE WITH TIES SPA IL HIGH STRENGTH POLY EVERY 24" AT TOP AND MID SECTION. PROPYLENE NETTING FILTER CLOTH: FILTER X,
MIRAF! 100X, STAB!LINKA TI40N OR APPROVED . WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHAL BE OVER-LAPPED BY SIX INCHES AND FOLDED. PREFABRICATED UNIT: GEOFAE, 1 H. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOF IN THE SILL FENCE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR DEACH DATE

CHIEF BUTTEAN OF ENGINEERING

Reviewed for HOWARD and meets Technical Requirements Homes M. Helm u.S. Soil Conservation Service THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROGION ANT SEDIMENT

CONSERVATION DISTRICT

CONTROL BY THE HOWARD SOIL

PERMANENT SEEDING NOTES

Seedbed Preparation: Lonsen upper 3 inches of soul by raking, discing or other acceptable means before seeding.

Soil Amendments: Use one of the following schedules:

- 1.) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square ft.) and 600 lbs. per acre 10-10-10 fortilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per ucre 30-0-0 ureaform fertilizer (91bs./1000 sq. fl.)
- 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 scre (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 (.05 lbs./1000 sq, ft.) of weeping lovegrass. During the period of October 16 thru Fedruary 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 Feacue and mulch with 2 tons/acre well enchored straw.

Mulching - Apply 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.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

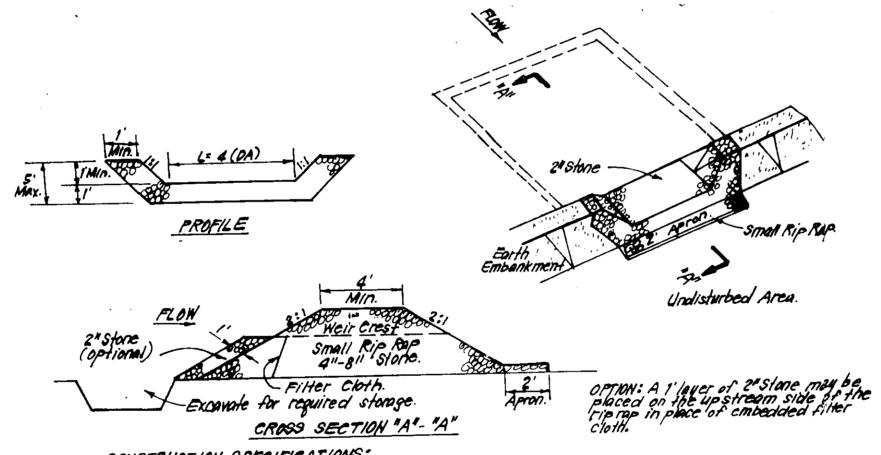
TEMPORARY SEEDING NOTES

Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

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 2½ bu. per sore of annual rye (3.2 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 sad.

Mulching: Apply 1½ to 2 tons per acce (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 acro (5 gal./1000 sq.ft.) of emursified asphalt on flat areas. On slopes, 8 ft. or higher, use 348 gal. per acre (8 gal./ 1000 sq.ft.) for anchoring.



CONSTRUCTION SPECIFICATIONS: 1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mut. The pool area shall be cleared.

2. The fill motorial for the embankment shall be tree of rooks and other woody vegetation as well as over.

sized stones, rocks organic material or other objectionable material. The embankment shall be compacted by traversing 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 up-grade side on the small rip rap or embedded filter cloth in the rip rap.

5. Sadiment shall be removed and trap restored to its amount dimensions when the small ment has 5. Sediment shall be removed and trap restored to its orginal dimensions when the sediment has accumulated to V2 the design bepth 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 than erosion and water pollution is 8. The structure shall be removed and the area stabilized when the drainage area has been properly

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORD

ING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CON-

APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE

BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE

ARE DEEMED NECESSARY.

HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS

I SIGNATURE HOMES INC 4.780

PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT OF NATURAL RESOURCES

TROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION

STONE OUTLET SEDIMENT TRAP (S.O.ST.) ST.V. NO SCALE

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.

I. 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 uniformily fine graded Hard-packed earth shall be scarefied prior to placement of sod.

II. Sod Installation

- A. During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod.
- B. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
- C. On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping and pegging or other approved
- D. As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil surface. Sod shall be watered immediately after rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. The operations of laying, tamping and irrigating for any piece of sod shall be completed within eight hours.

III. Sod Maintenance

- A. In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Watering should be done during the heat of the day to prevent wilting.
- B. After the first week, sod shall be watered as necessary to maintain adequate moisture and insure establishment.
- C. First mowing should not be attempted until sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.
- D. Maintenance of established sod should follow specifications outlined in table 54-1.

GENERAL NOTES

- 1) Refer to "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for standard details and detailed specifications of each practice specified herein.
- 2) with the approval of the sediment control inspector, minor field adjustments can and will be made to insure the control of any sediment. Changes in sediment control practices require prior approval of the sediment County Soil Conservation District. control inspector and the
- 3) At the end of each working day, all sediment control practices will be inspected and left in operational condition.
- 4) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a.) seven calendar days as to the surface of all perimeter controls, dikes, swales, aitches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and b.) fourteen days as to all other disturbed or graded areas on the project site.
- 5) Any change to the grading proposed on this plan requires re-submission County Soil Conservation District for approval.
- 6) Dust control will be provided for all disturbed areas. Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, pp 6201 and 62.02 for acceptable methods and specifications for dust control.
- 7) Any variation from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the County Soil Conservation District prior to the initiation of the change.
- 8) Excess cut or borrow material shall go to or come from, respectively, a site with an approved sediment control plan.

The following item may be used as applicable:

9) Refer to "Maryland's Guidelines to Waterway Construction" by the Water Resources Administration (WRA), dated January, 1986 for standard details and detailed specifications of each practice specified herein for waterway construction.

CONSTRUCTION SEQUENCE

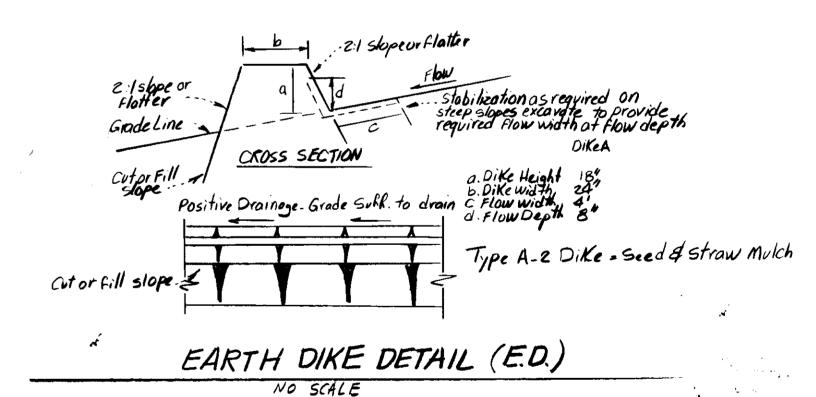
Obtain grading permit. Install Bediment & erosion control measures Clear & rough grade site

Construct houses & driveways

5. Fine grade & stabilize all disturbed areas in accordance

w/stos. & specs.

6. Remove sediment & erosion control measures once all areas draining to them are stabilized



ENGINEER'S CERTIFICATE THEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORK-ABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORD ANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.



ENGINEER: MIKE SEDGHI 7151 BRIGHT SOUL COLUMBIA, MD. 21045 SEDIMENT + EROSION CONTROL DETAIL 1=30 LOTS 50 \$ 51 MS WARFIELD'S RANGE DRAWING DRAWN 20F2 SECTION TWO, AREA FOUR MS IOB NO HECKED SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TLE NO DATE FOR: SIGNATURE HOMES P.O. BOX 2804 3-22-87 Columbia, Md. 21045

5DP-87-196