

TEMPORARY SEEDING NOTES

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

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

Soll Amendments : Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 eq.ft.).

Seeding , For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rue (3.2 lbs per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of meeping lovegrass (0.07 lbs. per 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. per 1000 sq.ft.) of unrotted small grain stran immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) per 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.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

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

Soll Amendments : in lieu of soll test recommendations, use one of the following schedules:

- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 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. per 1000 sq.ft.).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three Inches of soll.

Seeding | For the period March | thru April 30 and from August | thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May I thru July 31, seed with 60 lbs. Kentucky 31 Tail Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of meeping lovegrass. During the period october 16 thru February 28, protect site by one of the following options :

- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain stran immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre. (8 gal. per 1000 sq.ft.) for anchoring.

Maintenance: inspect all seeded areas and make needed repairs. replacements and reseedings.

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND BROSION CONTROL,
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED MITHIN: A) T CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES AND ALL SLOPES GREATER THAN 3.1, B) 14 DAYS AS TO OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASING SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE 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 1991 HARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERHANENT 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 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.

8.74 ACRES

5.67 ACRES

3.30 ACRES

14,540 CU. YARDS

7,000 CU. YARDS

2.37 ACRES

- 7. SITE ANALYSIS:
- TOTAL AREA OF SITE (LEASE AREA)
- AREA DISTURBED AREA TO BE ROOFED OR PAVED

ELEVATION SHOWN ON THE PLANS.

- AREA TO BE VEGETATIVELY STABILIZED TOTAL CUT TOTAL FILL
- WASTE TO BE DISPOSED OF ON A SITE WITH AN OPEN GRADING PERMIT. 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- II. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT
- 12. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR ENBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
- INSPECTION ASSENCY 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.

13. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., APPROVAL OF THE

- 14. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- 15. BORROW SITE TO BE PRE-APPROVED BY THE SEDIMENT CONTROL INSPECTOR, OR IN CASE OF EXCESS MATERIAL, AN APPROVED SEDIMENT CONTROL PLAN WILL BE NEEDED TO DEPOSIT EXCESS OFF-SITE:

21.0 STANDARD AND SPECIFICATIONS

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

To provide a suitable soil medium for vegetative growth. Soils of concern have for moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

- Conditions Where Proctice Applies I. This practice is limited to areas having 2:1 or flatter slopes where:
- a. The texture of the exposed subsoli/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- c. The original soil to be vegetated contains material toxic to plant growth.
- d. The soil is so acidic that treatment with limestone is not feasible.
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plane.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimentation Station.
- 11. Topeoi'l Specifications Soil to be used as topeoil must meet the following
- 1. Topeol shall be a loam, sandy loam, clay loam, slit loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardises, topeoli shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stanes, slag, coorse fragments, gravel, sticks, roots, trash, or other materials larger than 13° in diameter.
- Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
- 111. Hhere subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tone/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and narked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres
- 1. Place topsoil (if required) and apply soil amendments as specified in 20.0 Yegetative Stabilization Hethods and Haterials.
- III. For sites having disturbed areas over 5 acres:
- 1. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
- a. pH for topooli shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lims shall be prescribed to raise the pH to 6.5 or higher.
- b. Organic content of topsoil shall be not less than 1.5 percent by meight.
- c. Topsoil having soluble sait content greater than 500 parts per million shall not be used. d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for need control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

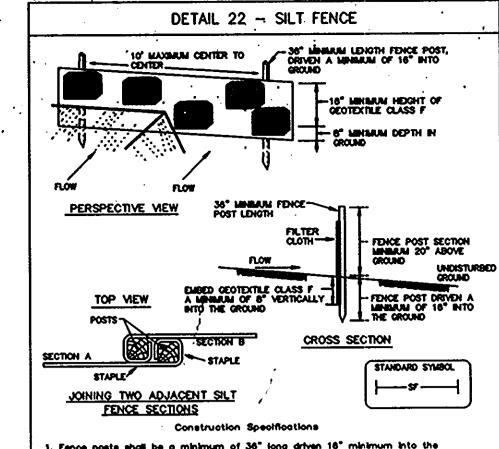
Note: Topocil substitutes to amendments, as recommended by a qualified agranomist or soil scientist and approved by the appropriate approval authority may be used in figure fractural topsoil.

- 1. When topsoiling, maintain needed erosion and sediment control practices such as diversions, frade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- 11. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" 8" higher in elevation.
- 111. Topsoll shall be uniformly distributed in a 4° 8° layer and lightly compacted to a minimum thickness of 4°. Spreading shall be performed in such a manner that sadding ar seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- IV. Topsoli shall not be placed while the topsoli or subsoli is in a frozen or muddy condition, when the subsoli is excessively net or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and communicial fertilizer, composted sludge and amendments may be applied as specified below:
- . Composted Studge Haterial for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe anendments and for site having disturbed areas under 5 acres shall conform to the following requirements:
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Haryland Department of the Environment under COHAR 26.04.06.
- Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 0.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
- c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- d. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding. NO-VA, Pub. 81, Cooperative Extension Service, University of Haryland and Yirginia Polytechnic Institutes. Revised 1413.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT
- 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE. (1 DAY)
- 3. ROUGH GRADE SITE AND BEGIN BUILDING CONSTRUCTION. (5 DAYS)
- 4. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM DRAINS, INLET TRAPS, WATER AND SEMER, PROVIDE INLET PROTECTION AS SHOWN, (4 MEEKS)
- 5. INSTALL CURB AND GUTTER AND PAVE ROADWAYS. REMOVE INLET TRAPS AS APPROVED BY THE HO, CO. DILP SEDIMENT CONTROL INSPECTOR. POUR CONCRETE LOADING AREA AND SIDEWALKS. (3 NEEKS)
- 6. FINE GRADE SITE AND INSTALL BERMS. (5 DAYS)
- 7. STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 DAY)
- 8. INSTALL LIGHTS, LANDSCAPING AND SIGNS AS REQUIRED. (5 DAYS)
- 9. COMPLETE BUILDING CONSTRUCTION. (2 MONTHS)
- UPON APPROVAL OF HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE ALL REMAINING AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (2 DAYS)



1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. 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 2. GeotextRe shall be fastened securely to each fence poet with wire ties

or stoples at top and mid-section and shall meet the following requirements Tenelle Strength Tenelle Modulus 50 be/in (min.) Test: MSMT 509
20 be/in (min.) Test: MSMT 509
0.3 gol ft / minute (max.) Test: MSMT 322

Filtering Efficiency Where ends of geotextile fobric come together, they shall be overlopped folded and stopled to prevent eediment bypass

2" X 4" FRAMING.

GEOTEXTILE CLASS E

MAX. DRAINAGE AREA - 1/4 ACRÉ

top elevation on the eldes.

4. Silt Fence shall be inspected after each rainfall event and maintained wher bulges occur or when sediment accumulation reached 50% of the fabric height.

DETAIL 23A - STANDARD INLET PROTECTION

1. Excavate completely around the inlet to a depth of 18" below the

2. Drive the 2" x 4" construction grade lumber poets 1' into the

poets on the ends of the inlet. Assemble the top portion of the

 2° x 4° frame using the overlap joint shown on Detail 23A. The top of the frame (welr) must be 6° below adjacent roadways where

'4. Stretch the Geotextile Close E tightly over the wire mesh with the geotixtile extending from the top of the frame to 18° below the hilet notch elevation. Fosten the geotextile firmly to the frame. The ends of the geotextile must meet at a poet, be everlopped and folded then festered down.

5. Backfill around the inlet in compacted 6° layers until the

layer of earth is level with the notch elevation on the ende and

6. If the triet is not in a sump, construct a compocted earth discorres the ditch line directly below it. The top of the earth disc

4E-16-5

7. The structure must be inspected periodically and after each roln and the geotextile replaced when it becomes alogged.

3. Stretch the $1/2^{\circ} \times 1/2^{\circ}$ wire mesh tightly around the frame

and factor securely. The ends must meet and overlop at a

ground at each corner of the inlet. Place noll strips between the

· MANAGEM ·

STANDARD SYMBOL

[__] sw

MARYLAND DEPARTMENT OF EXVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE EXISTING PAVELEN .. OEOTEXTILE CLASS 'C'-MINIMUM OF OF 2"-3" ACCREGATE OVER LENGTH AND WOTH OF STRUCTURE EXISTING GROUND PROFILE STANDARD SYMBOL NO.

2. Width — 10' minimum, should be flared at the existing road to provide a turning 3. Geotextile fobric (filter cloth) shall be placed over the existing ground prior

6. Stone — crushed aggregate (2" to_3") or reclaimed or recycled concrete

equivalent shall be placed at least 6" deep over the length and width of the 8. Surface Water — all surface water flowing to ar diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a

mountable berm with 8:1 elopse and a minimum of 6" of stone over the pipe. Pipe ha to be sized according to the drolhage. When the SCE is located at a high spot and has no drolhage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 8° minimum will be required.

6. Location - A stabilized construction entrance shall be located at every poli where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stobilized construction entrance.

DETAIL 33 - SUPER SILT FENCE

1. Fencing shall be 42" in height and constructed in accordance with the

4. Filter cloth shall be embedded a minimum of 8° into the ground.

develop in the s2t fence, or when s2t reaches 50% of fence height

latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length

The lower tension wire, brace and truss rods, drive anchors and poet caps are n

3. Fitter cloth shall be fastened securely to the chain link fence with ties spaced

5. When two sections of filter cloth adjoin each other, they shall be overlapped

7. Filter cloth shall be fastened securely to each fence post with wire ties or

staples at top and mid section and shall meet the following requirements for Geotextile Class F:

50 lbs/in (min.) 20 lbs/in (min.)

3. Mointenance shall be performed as needed and slit buildups removed when "builges"

every 24° at the top and mid section

Tenede Strength

Tenelle Modulus

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

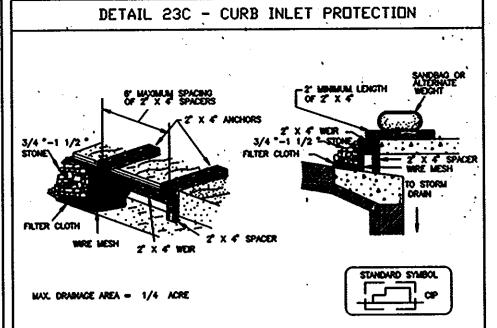
Filtering Efficiency 75% (min.)

*# MAILTIPLE LAYERS AR REQUIRED TO ATTAIN 42

" MINIMUS

Test: MSMT 509

Test: MSMT 322



4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard 2. Place a continuous piece of Geotsxtile Class E the same dimensions as the wire mesh over the wire mesh and securely attach R to the 2' x 4' welr.

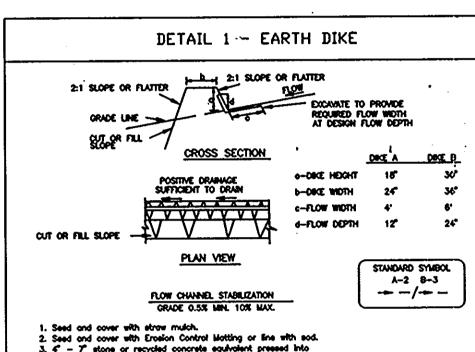
. Piace the assembly against the inlet throat and noil (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbage or alternate weight.

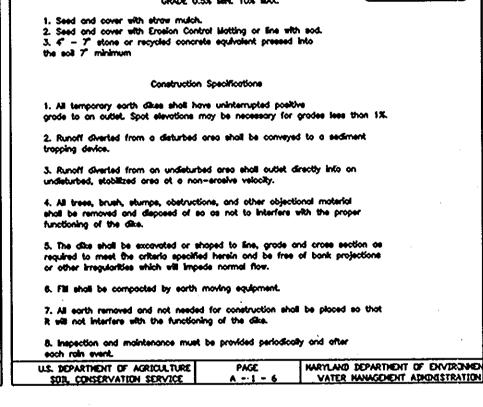
3. Securely not the 2" X 4" welr to a 9" long vertical epocer to be located between

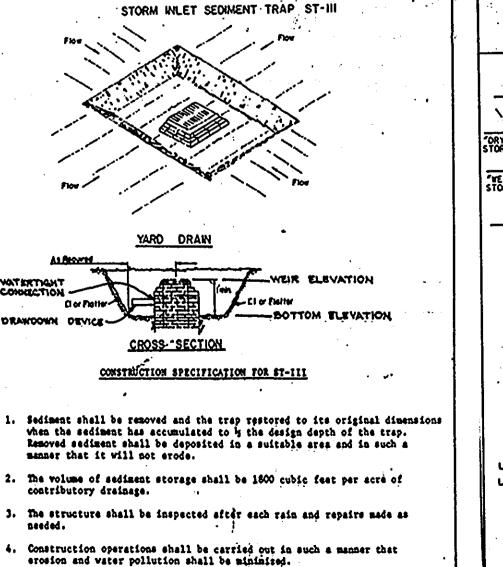
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening. 6. Form the 1/2 " x 1/2 " wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the lines. Place clean 3/4 " x 1 1/2 " stone over the wire meeh and geotextile in such a manner to prevent water from

. This type of protection must be inspected frequently and the filter cloth I. Assure that storm flow does not bypose the inlet by installing a temporary arth or aechalt dike to direct the flow to the inlikt.

S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SUR, CONSERVATION SERVICE E - 16 - 53 VATER MANAGEMENT ADMIDISTRATION







The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.

STORM HILET SEDMENT TRAP

TANDARO DRAHING

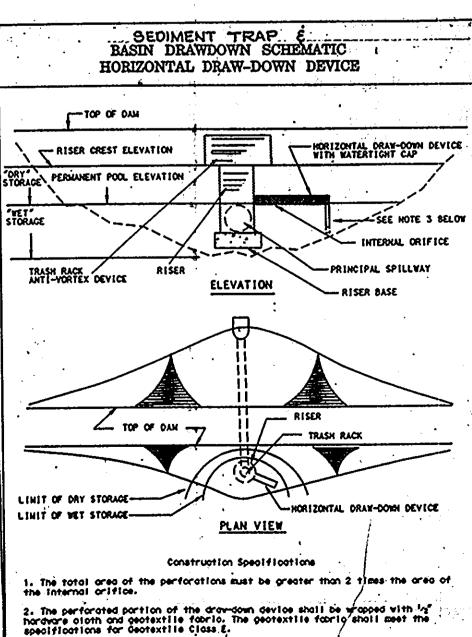
ST-III .

6. All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 3 Acres

u.s. department of agriculture

SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND



3. Provide support of draw-down device to prevent scooling and floatation. An acceptable preventative measure is to stake both sides of draw-down device with 1" steel angle, or 1" by 4" square or 2" round wooden posts set 3" minimum into the ground then joining them to, the device by wrapping with

WATER MAXAGEMENT OF ENVIRONMENT WATER MAXAGEMENT ADMINISTRATION

12 gouge minimum vire.

U.S. DEPARTMENT OF ACHICULTURE

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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT. **DEVELOPER** BY THE ENGINEER I 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. 4.10.98 THESE PLANS HAVE BEEN 'REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL. Level Scommo NATURAL RESOURCES CONSERVATION SERVICE THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION HOWARD SOIL CONSERVATION DISTRICT APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. BOHIEF, DEVELOPMENT ENGINEERING DIVISION DATE Hamilla CHIEF, DIVISION OF LAND DEVELOPMENT DATE NO. REVISION OWNER/DEVELOPER MTH ELECTRIC TRAINS 7020 COLUMBIA GATEWAY DRIVE COLUMBIA, MD 21046 (410)381-2580 MIKE'S TRAIN HOUSE BUILDING ADDITION

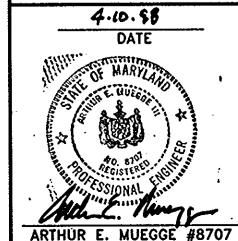
BY THE DEVELOPER

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY

COLUMBIA GATEWAY PARCEL S-27 A RESUBDIVISION OF PARCEL 5-16 \$ 5-25 TAX MAP 43, BLOCK 7, ZONED M-1 6th ELECTION DISTRICT

NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410.997.8900 fax 410.997.9282



TITLE

DESIGNED BY : C.J.R. DRAWN BY: DAM PROJECT NO : 98047 SDP4.DWG

DATE: APRIL 13, 1998 SCALE : AS SHOWN DRAWING NO. 4 OF 6

SDP-98-106

