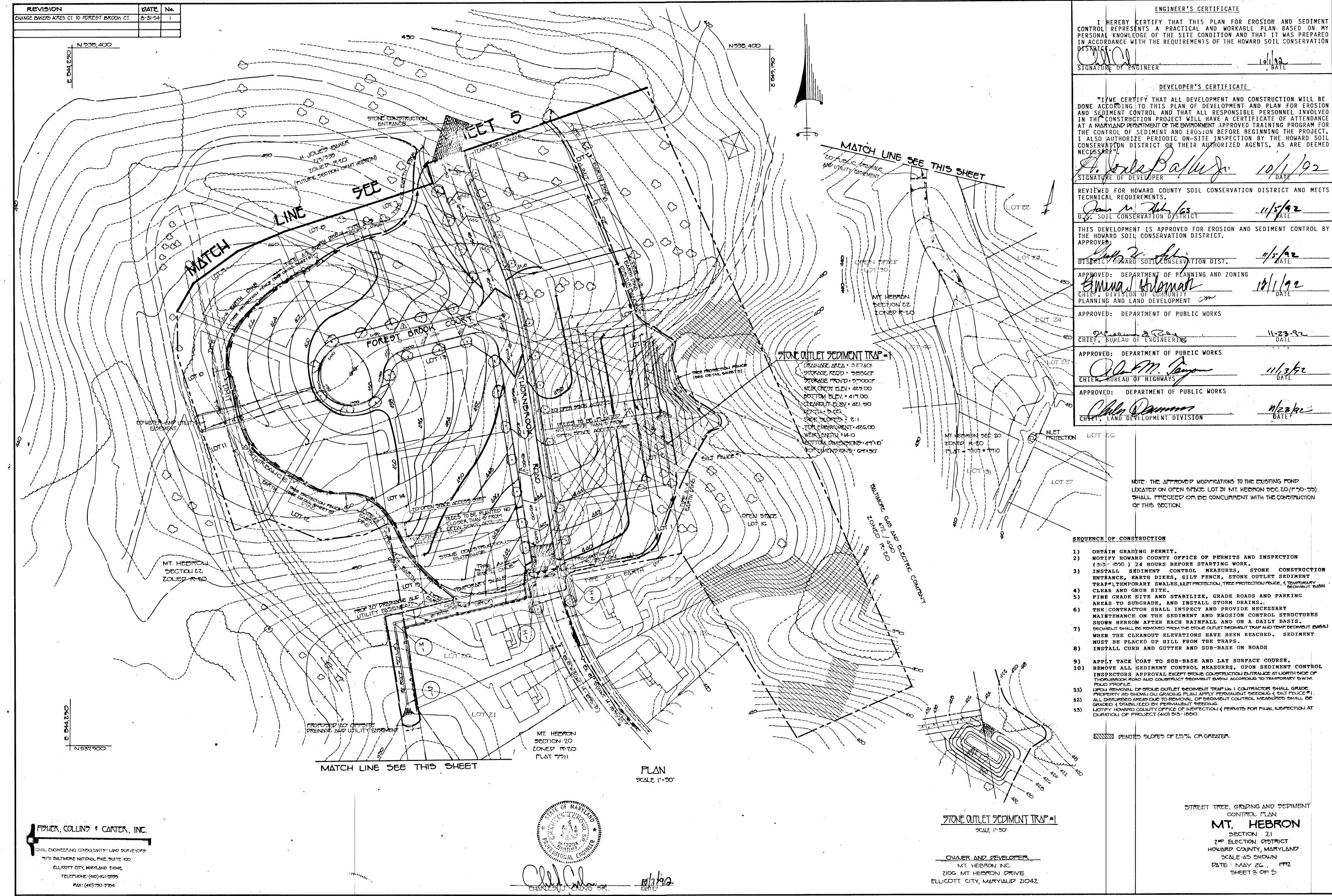


JOO Nº 30333



PERMANENT SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTRUBANCE

WHERE A PERMANENT LONG-LIVED 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 SCHEDULE.

1) PREFERRED - APPLY 2 TOWS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)

HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.) 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SO.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 (1.4 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 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 WILL ANCHORED STRAW. MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OR 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 HIGHTER. 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:
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

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15. SEED WITH 2 1/2 BUSHEL PER ACRE 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 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 SO.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.

SEDIMENT CONTROL NOTES

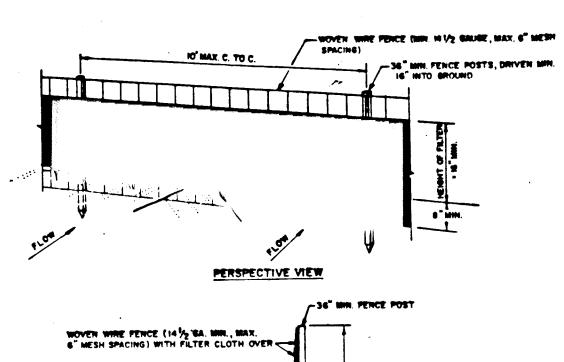
- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 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. 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
- 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

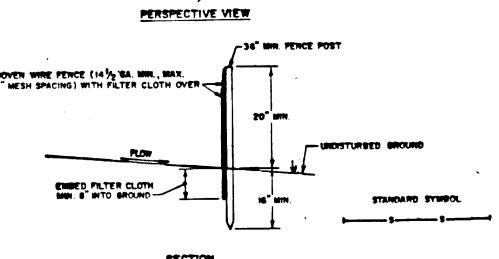
(SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING

- THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS: TOTAL AREA OF SITE ACRES AREA DISTURBED OG5 ACRES AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED 5.29 ACRES TOTAL CUT <u>75,470</u> CU.YDS.
- TOTAL FILL

 OFFSITE FILL AREA LOCATION 32,331 CU.YDS. (SEE SHEETS FOR STOCKFILE AREA)

 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 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.

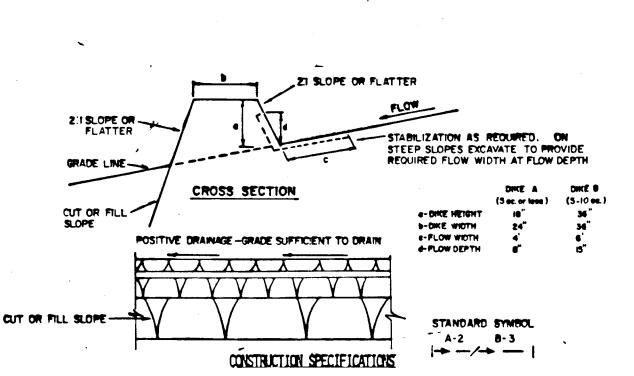




CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- Moven wire fence to be fastened securely TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO
- WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. 3. WHEN TWO SECTIONS OF FILTER CLOTH
- ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
- 4. Maintenance shall be performed as NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED

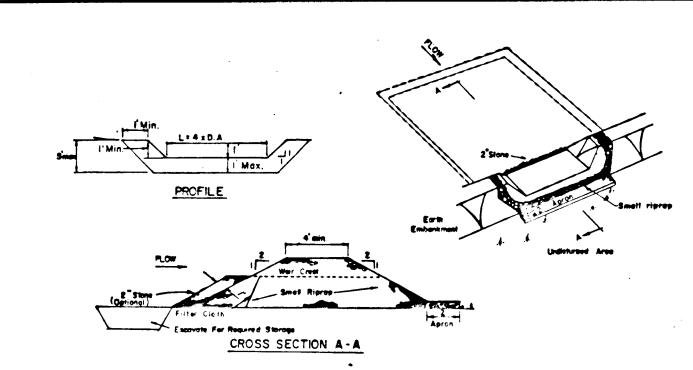
70 SCALE



- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET. OP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE
- CROSSING BY CONSTRUCTION TRAFFIC. IELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT
- MASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT 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

		FLOW CHANNEL STABILIZATION	
TYPE OF IREALMENT	CHANNEL GRADE	DIKE A	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 EXCELSION; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-207	LINED RIP-RAP 4-8"	ENGINEERING DESIGN
INCHES IN B. RIP-RAP TO THE SOIL.	THICKNESS AND B BE 4-8 INCHES	OR RECYCLED CONCRETE EQUIVALE E PRESSED INTO THE SOIL WITH CO IN A LAYER AT LEAST 8 INCHES TO BE SUBSTITUTED FOR ANY OF THE A UIRED MAINTENANCE MUST BE PROV	ONSTRUCTION EQUIPMENT. HICKNESS AND PRESSED INTO

EARTH DIKE



FTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

- 2. The fill material for the embankment shall be free of roots 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 riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the
- 5. Sediment shall be removed and trap restored to its original dimensions when the sediment
- 6. The structure shall be inspected after each rain and repairs usde as needed

STANDARD SYMBOL

Existing ground

PROFILE

PLAN VIEW

CONSTRUCTION SPECIFICATIONS

dence lot where a 30 foot minimum length would apply).

a mountable berm with 5:1 slopes will be permitted.

3. Thickness - Not less than six (6) inches.

points where ingress or egress occurs.

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.

4. Width - Ten (10) foot minimum, but not less than the full width at

Filter will not be required on a single family residence lot.

2. Length - As required, but not less than 50 feet (except on a single resi-

5. Filter Cloth - Will be placed over the entire area prior to placing of stone.

prevent tracking or flowing of sediment onto public rights-of-way. This may

sediment spilled, dropped, washed or tracked onto public rights-of-way must

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

require periodic top dressing with additional stone as conditions demand

6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical,

7. Maintenance - The entrance shall be maintained in a condition which will

and repair and/or cleanout of any measures used to trap sediment. All

8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto

- 7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
- 8. The structure shall be removed and the area stabilized when the drainage area has been Maximum Drainage Area: 5 Acres

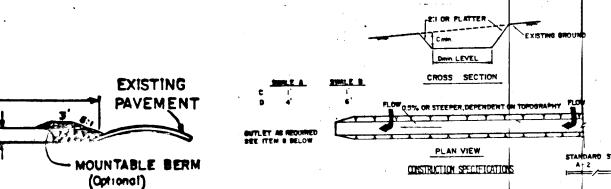
STONE OUTLET SEDIMENT TRAF NOT TO SCALE

CHIEF. LAND DEVELOPMENT DIVISION

EXISTIN(

PAVEMENT

10 min



- 1. AL THYOTHEY SHLES SHILL HAVE UNINTERREPTED POSITIVE GRADE TO AN OUTLET.
- 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING 3. Diverted runoff from an undisturbed area shall outlet directly into an undisturbed stabilized area at non-erosive velocity.
- 4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SERENOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTION THE SIMILE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS NEGLITED TO MEET THE CRITERIA SPECIFIED HEREIN AND BEIFREE OF BANK PROJECTION

8. STABILIZATION SHALL BE AS PER THE CHART BELON:

6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT. 7. ALL BARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SHALE.

FLOW CHANNEL STABILIZATIO CRATE A (5 AC OR LESS) SEED AND STRAW MULCH 0.5-3.07 SEED AND STRAH MULCH SEED USING JUTE OR EXCELSION 3.1-5.0% SEED AND STRAM MULCH ENGINEERED DESIGN 8.1-20% Lined 4-8" R >-Pap

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

TEMPORARY SWALE TO SCALE

Excavate and

11.53.92

A swele, ditchline or yard inlet protection.

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 CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION

DEVELOPER'S CERTIFICATE

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 MARYUAND DEMARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR

THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL

CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS. AS ARE DEEMED

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY

TECHNICAL REQUIREMENTS.

APPROVED?

S. SOIL CONSERVATION DISTRICT

THE HOWARD SOIL CONSERVATION DISTRICT.

PLANNING AND LAND DEVELOPMENT COM

APPROVED: DEPARTMENT OF PUBLIC WORKS

APPROVED: DEPARTMENT OF PUBLIC WORKS

APPROVED: DEPARTMENT OF PLANMING AND ZONING

DEPARTMENT OF PUBLIC WORKS

James

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

Excavate completely around inlet to a depth of 18" below notch Drive 2 x 4 post 1' into ground at four corners of iniet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top o

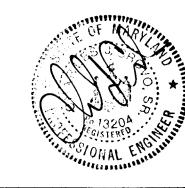
rame (weir) must be 6" below edge of roadway adjacent to

- Stretch wire mesh tightly around frame and fasten securely.
- extend from top of frame to 18" below inlet motch elev-Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on endo and top elevation
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least.6" higher than the top of frame (weir).

This structure must be inspected frequently and the filter

SWALE INLET PROTECTION NOT TO SCALE

9. Periodic inspection and needed maintenance shall be provided after each rain. STABILIZED CONSTRUCTION __ENTRANCE_



be removed immediately.

OWNER AND DEVELOPER MT. HEBROLI IUC. ZIOG MT. HEBROLL PRIVE ELLICOTT CITY, MARYLAUD 21042 MT. HEBRON SECTION 21

2NP ELECTION DISTRICT HOWARD COULTY, MARYLAUD LIMOHE CA: 3140C MAY 26, 1772 SHEETA OF 5

FISHER, COLLINS & CARTER, INC 7 IVIL ENGINE FRING CONCRETANTS & LAND SURVEYORS

9171 BALTIMORE NATIONAL PIKE, SUITE 100

ELLICOTT CITY, MARYLAND 21042

(301) 461 - 2055

15-BUILT 7-15-96

