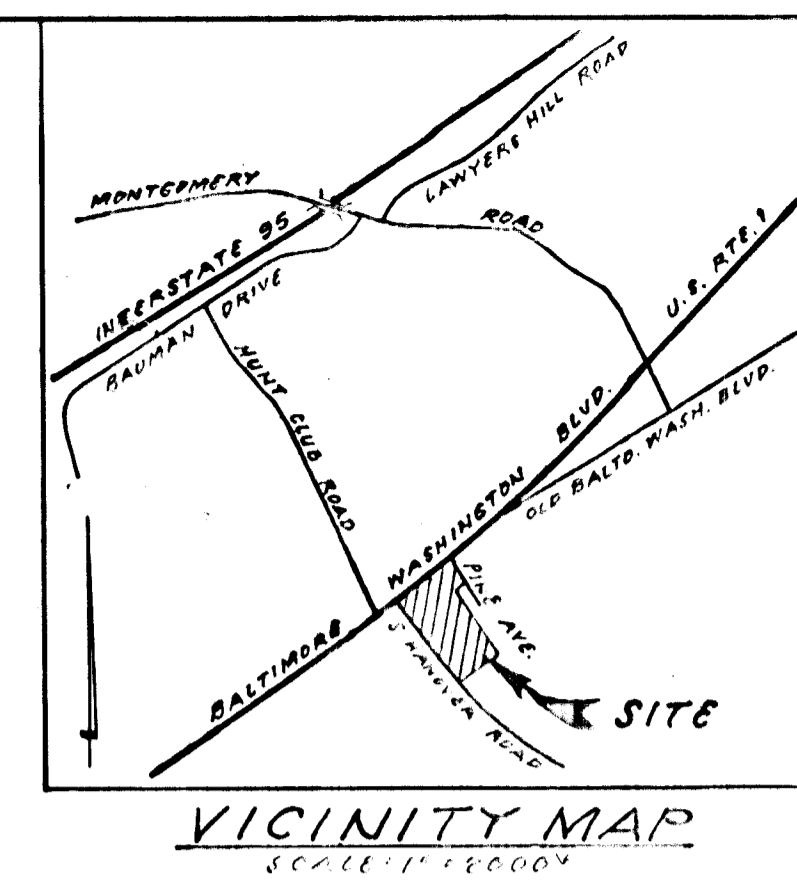
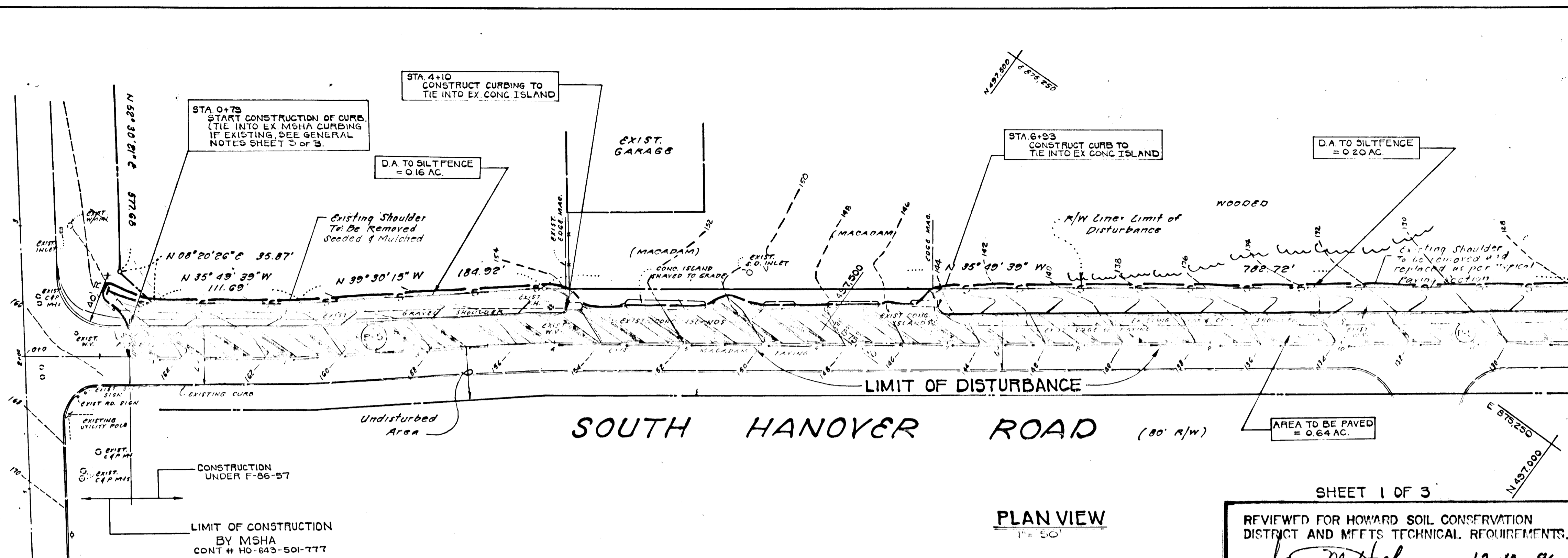


U.S. ROUTE 1 (ULTIMATE 100' R/W)
(SEE SHEET 2 & 3)



SOUTH HANOVER ROAD (90' R/W)

PLAN VIEW
1" = 50'

SHEET 1 OF 3

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MFFTS TECHNICAL REQUIREMENTS.
John McHale 12-10-86
DATE

APPROVED BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John M. Manichman 12-11-86
DATE

DESIGNED C.A.P. ROAD IMPROVEMENTS PLAN AND PROFILE SCALE AS SHOWN
DRAWN C.A.P. SOUTH HANOVER ROAD EVELYN SILVER PROPERTY 1 of 3
CHECKED M.S.S. FIRST ELECTION DISTRICT JOB NO. F6011
DATE NOV, 1986 HOWARD COUNTY, MARYLAND

OWNER'S/DEVELOPER'S CERTIFICATION

"I/we hereby certify that I have reviewed this erosion and sediment control plan and that all clearing, grading, construction and/or development will be done pursuant to this plan and that any 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".

Signature *Robert Spahn* Date
Name MR. ROBERT SPAHN Title SUPERINTENDENT Phone No.
Firm AIA TRANSPORT CORP. complete engineering 60 NORTH BERGEN, NJ 07043

ENGINEER'S CERTIFICATE

"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".

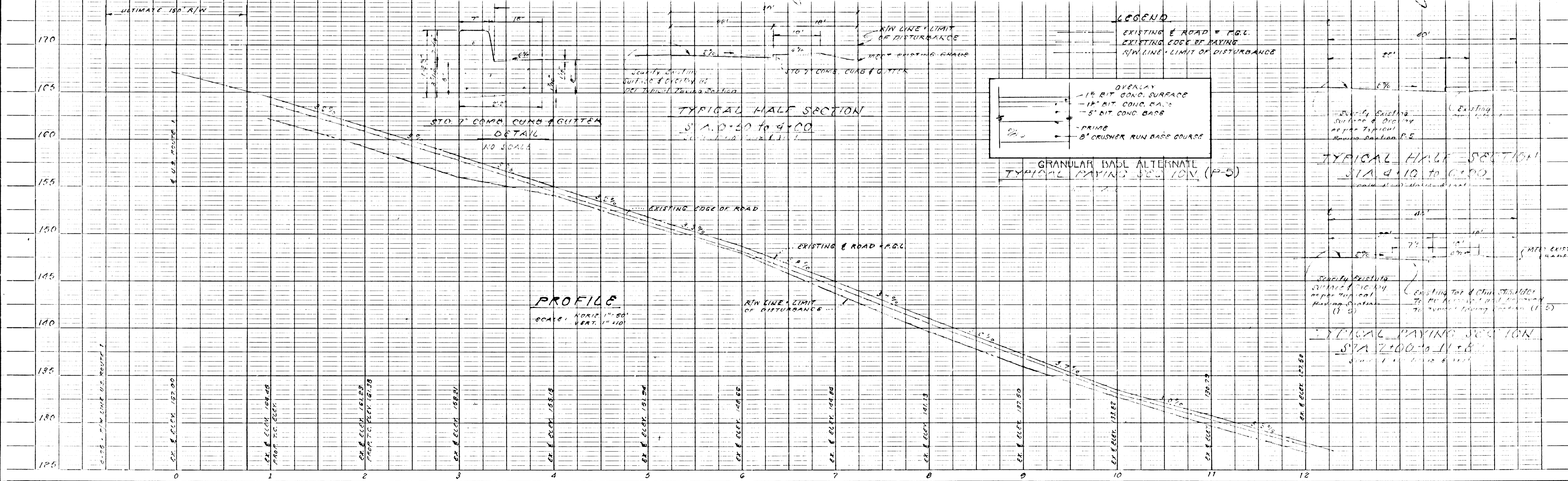
Signature *John E. Patmore* Date 12/1/86
Name JOHN E. PATMORE
Registered Professional Engineer # 8978

U.S. SOIL CONSERVATION SERVICE

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

Signature *Stephen L. John* Date 12-10-86
Approved Howard S.C.D.

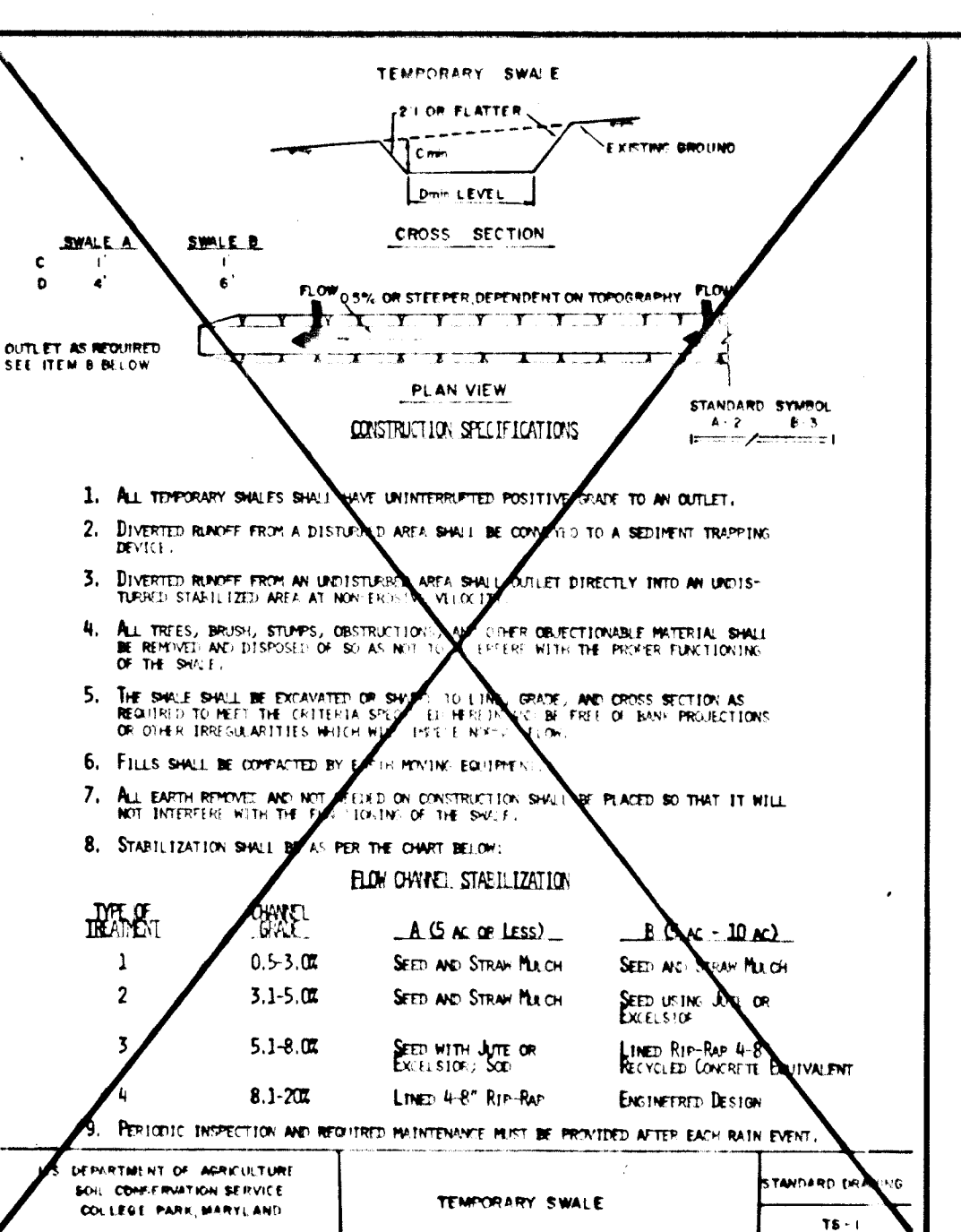
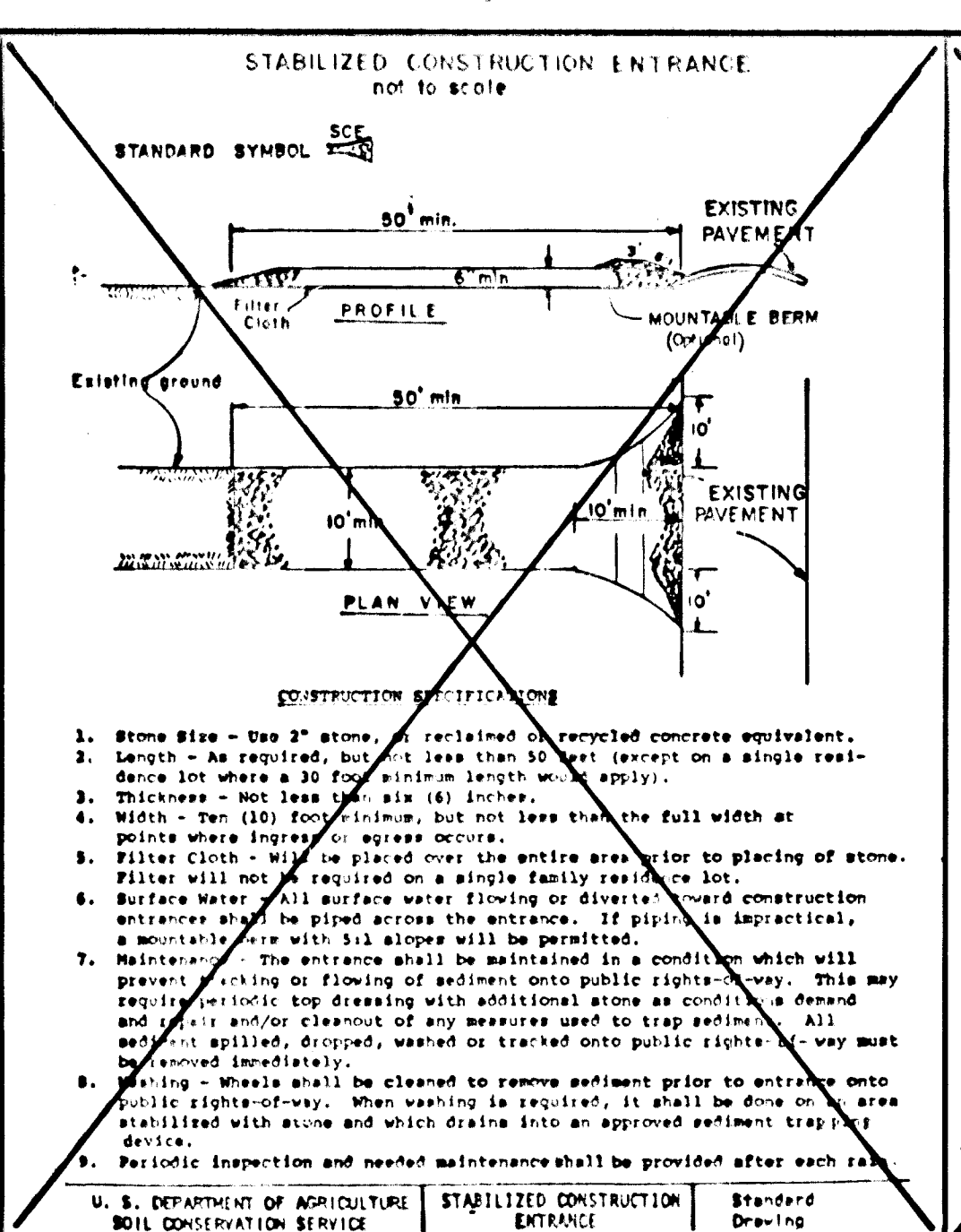
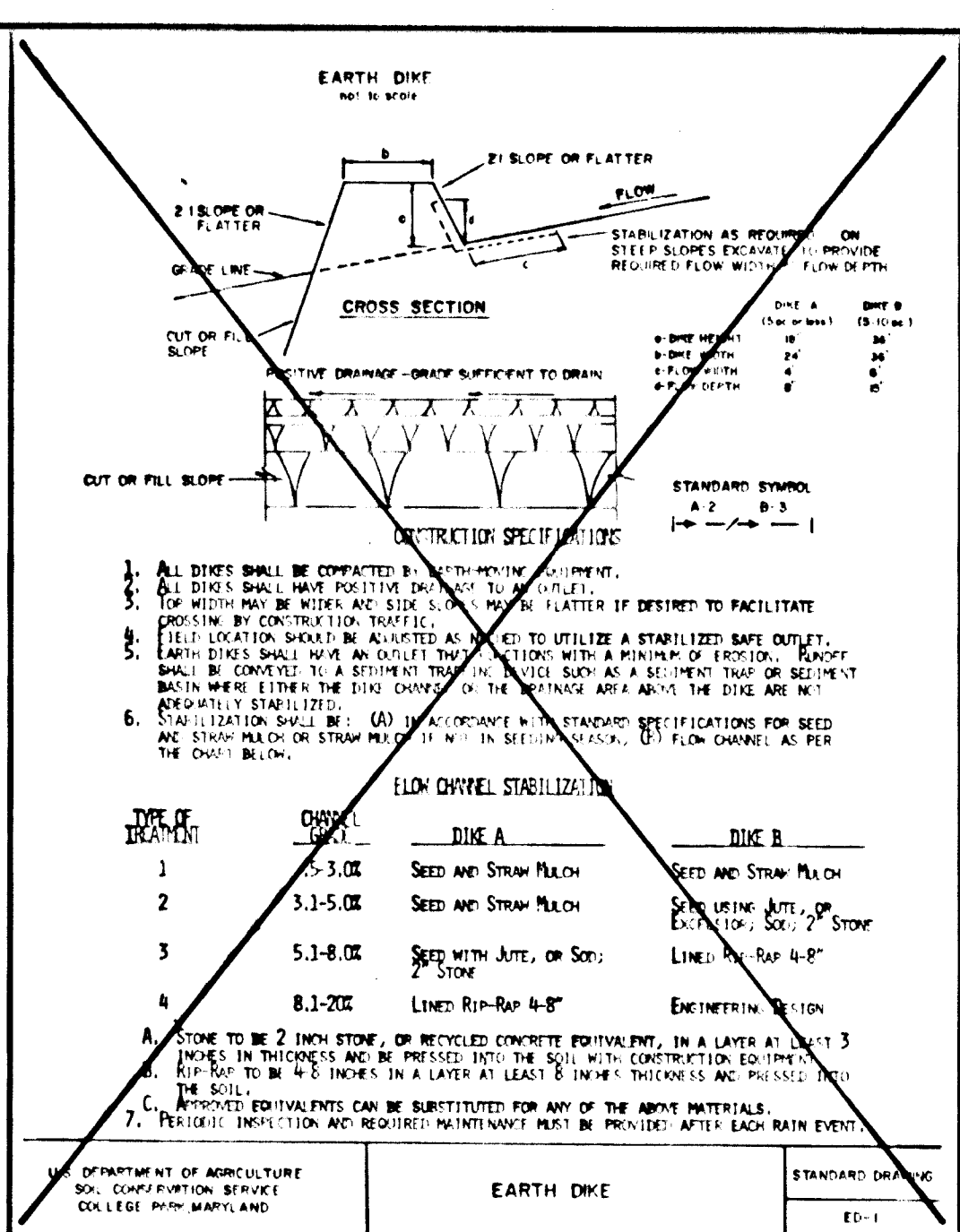
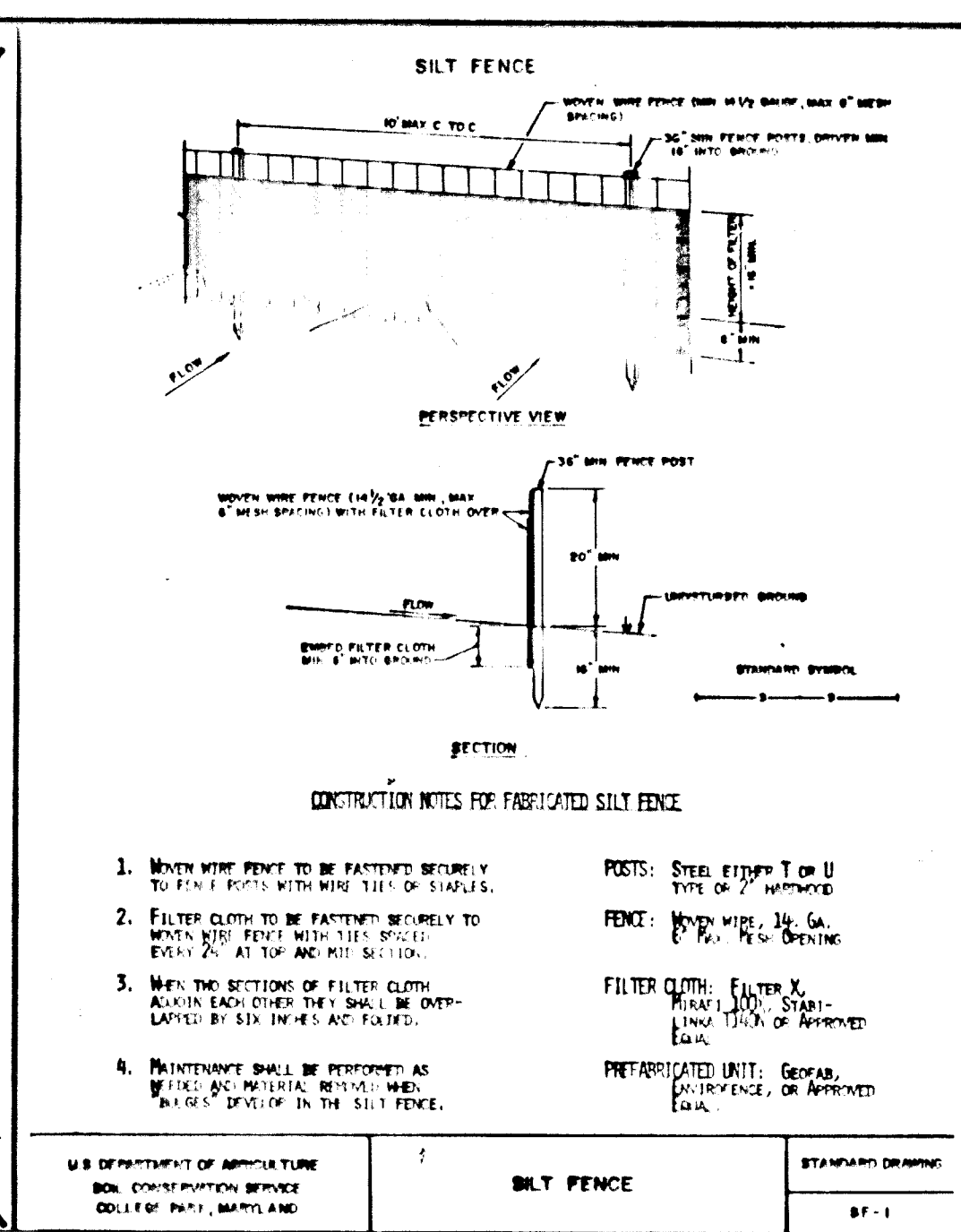
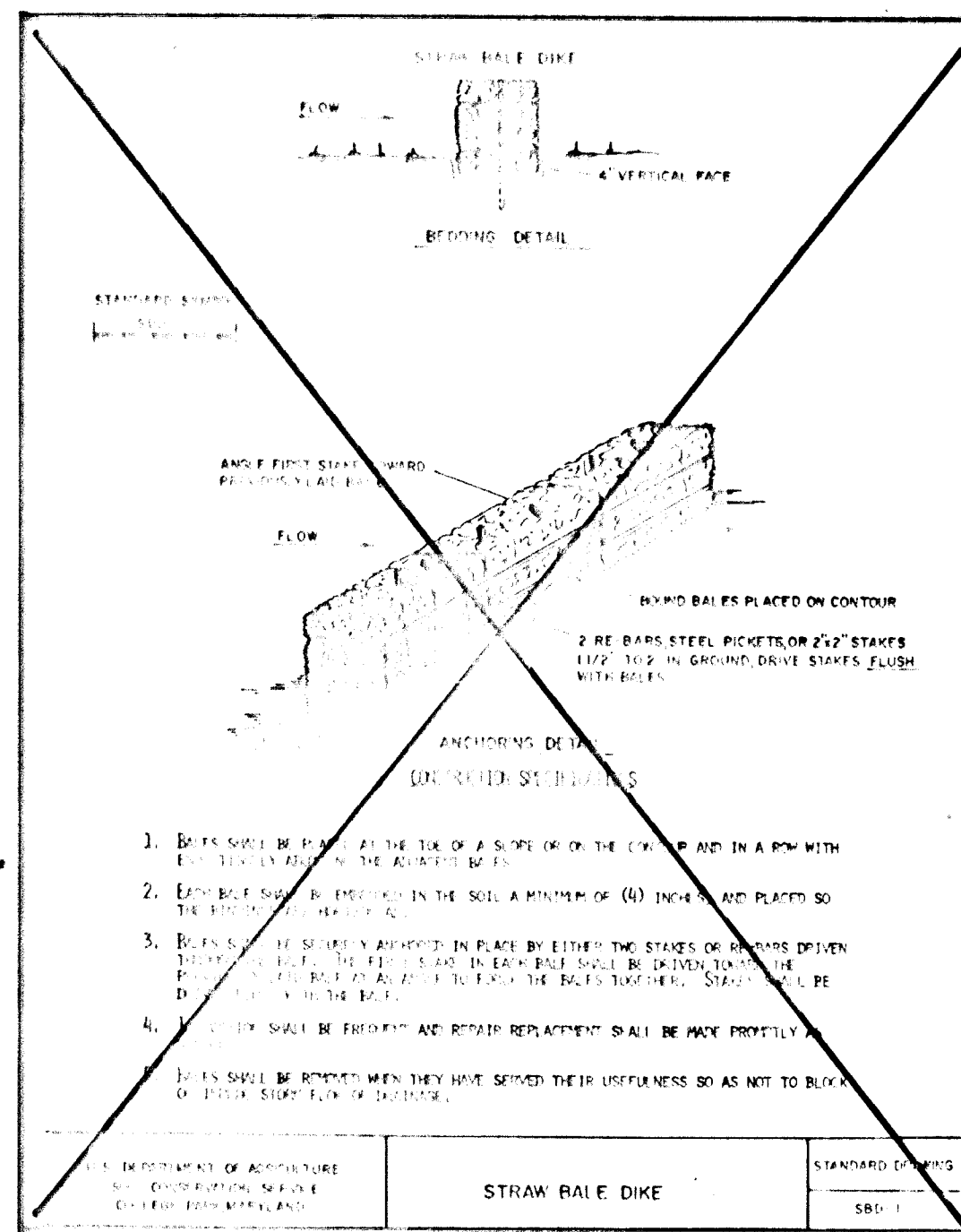
STATE OF MARYLAND PROFESSIONAL ENGINEER
John E. Patmore
12-10-86



DATE: 12-10-86
BY: J.E.P.
CHECKED: M.S.S.
NOTES: ROAD GRADES DIVIDED BY 100'
NO. 1

DATE: 12-10-86
BY: J.E.P.
CHECKED: M.S.S.
NOTES: ROAD GRADES DIVIDED BY 100'
NO. 1

1298
2



PERMANENT SEEDING NOTES

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

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

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 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
- 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.

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 (0.5 lbs/1000 sq ft) of creeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use and. 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 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 368 gal 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.

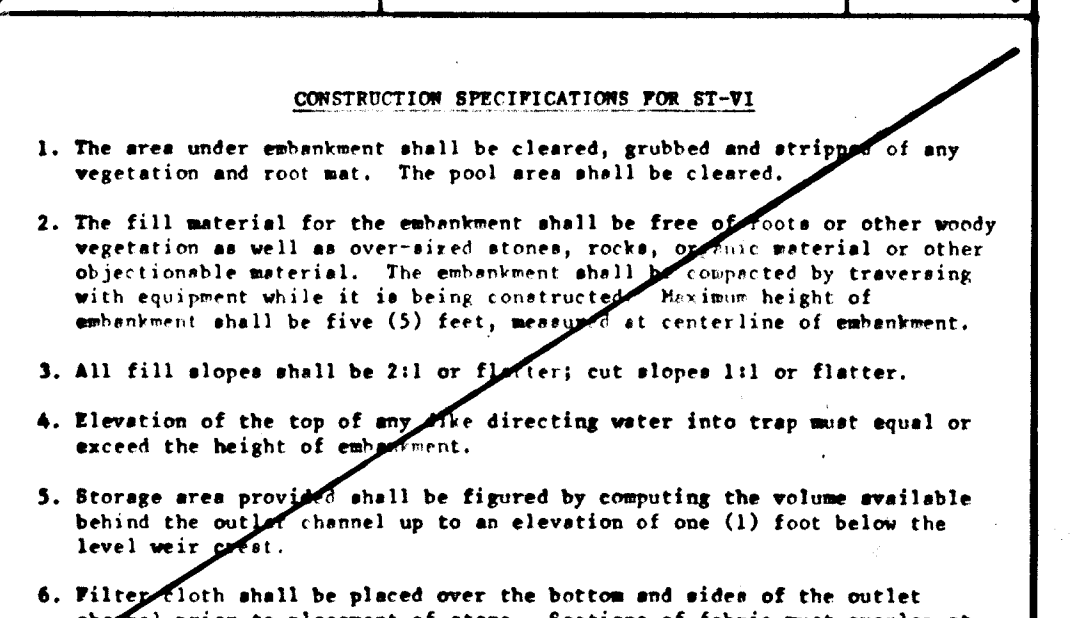
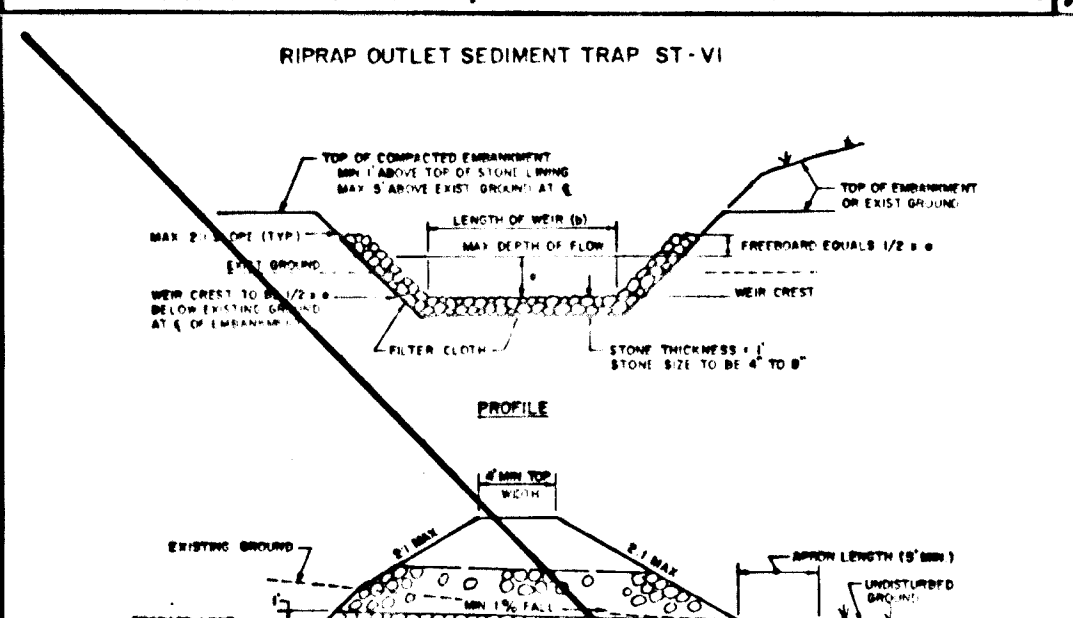
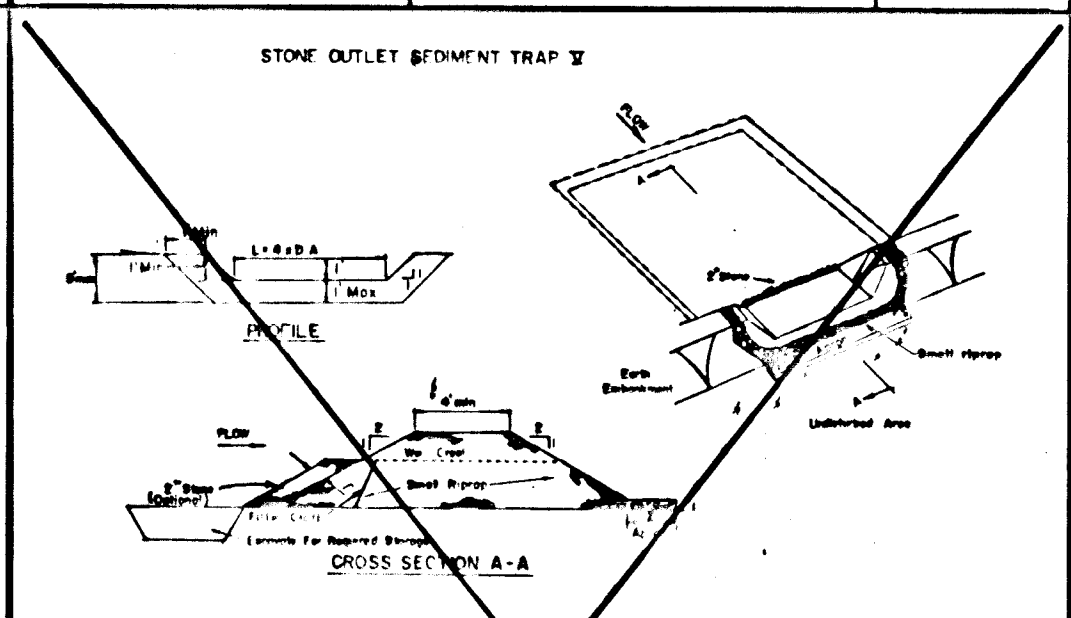
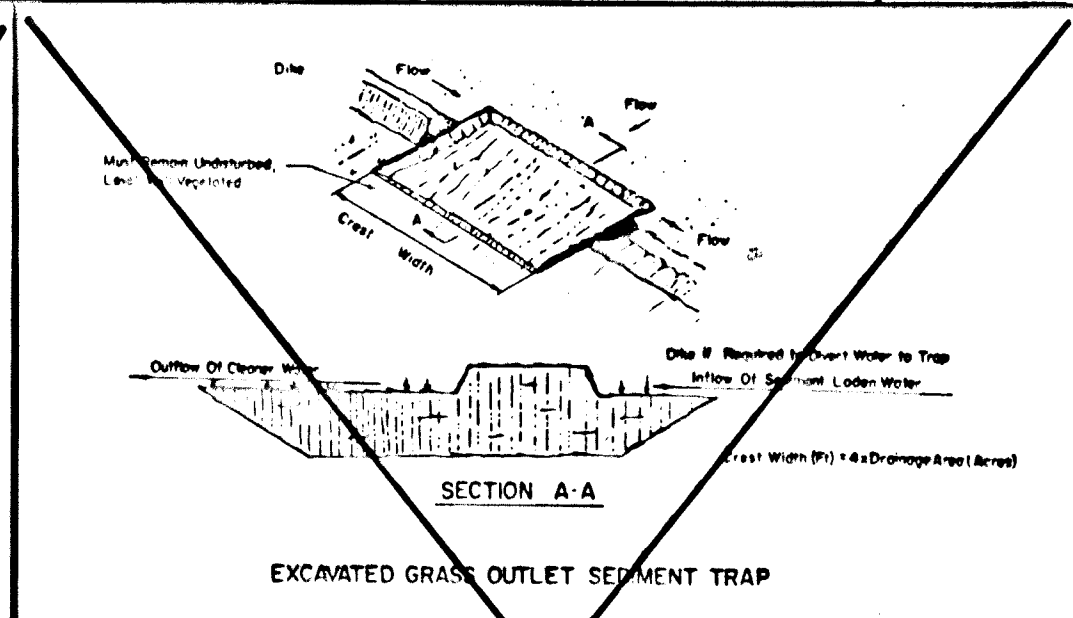
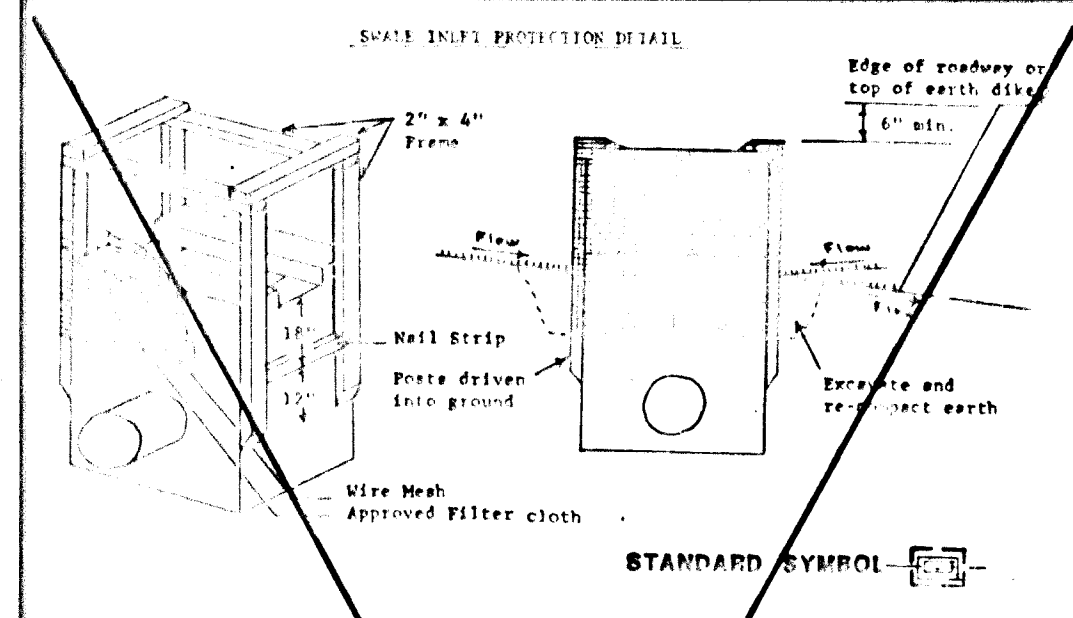
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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 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 creeping lovegrass (0.7 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 seed.

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 368 gal per acre (8 gal/1000 sq ft) for anchoring.

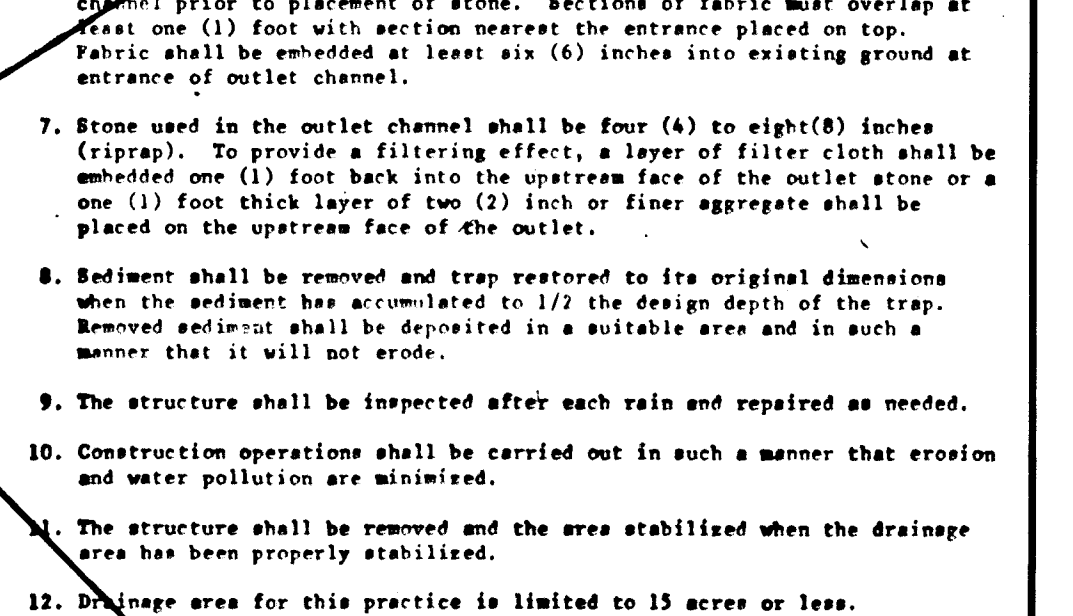
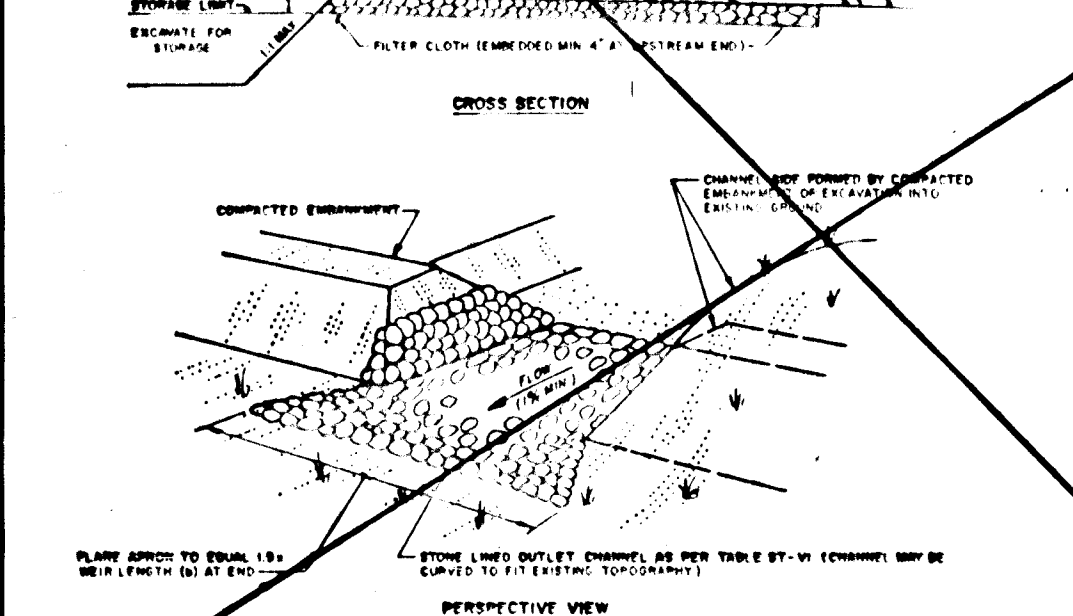
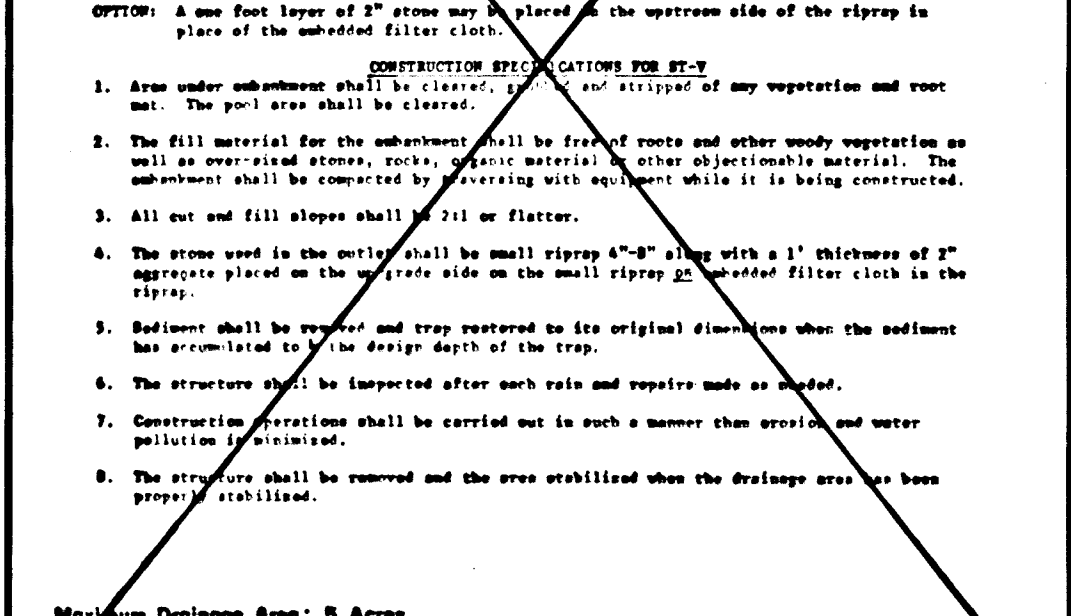
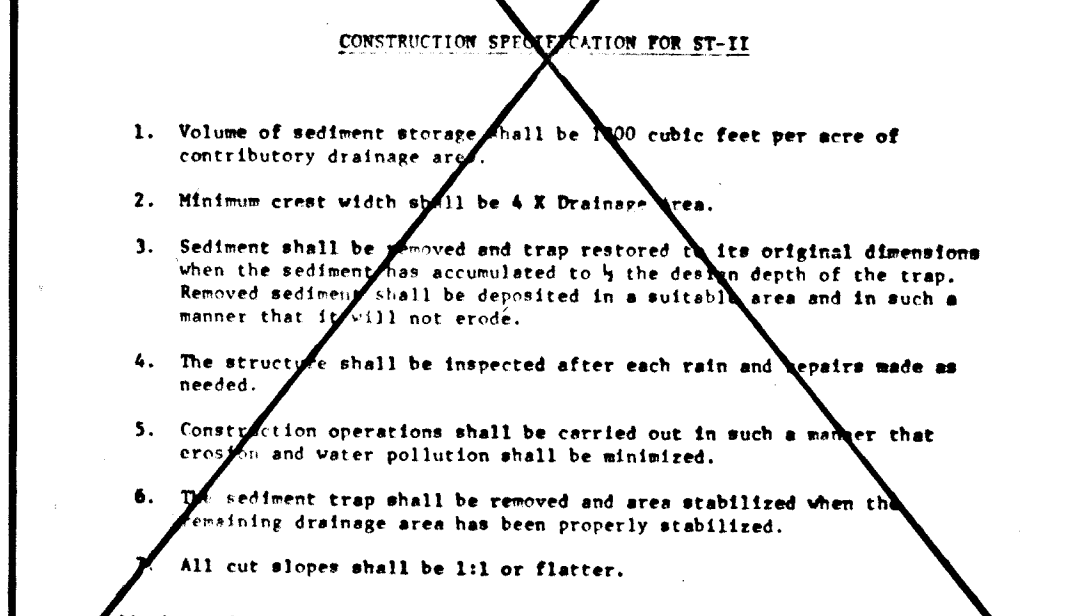
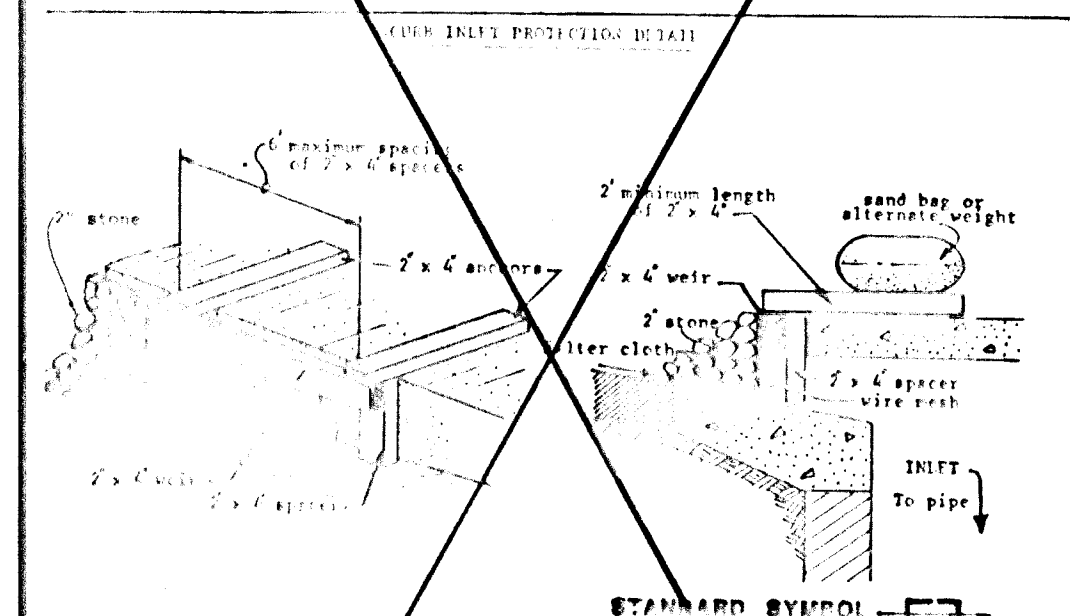
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Howard County Office of 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) 14 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days or less 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) and (Sec. 54), temporary seedings (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.
- 7) Site Analysis:

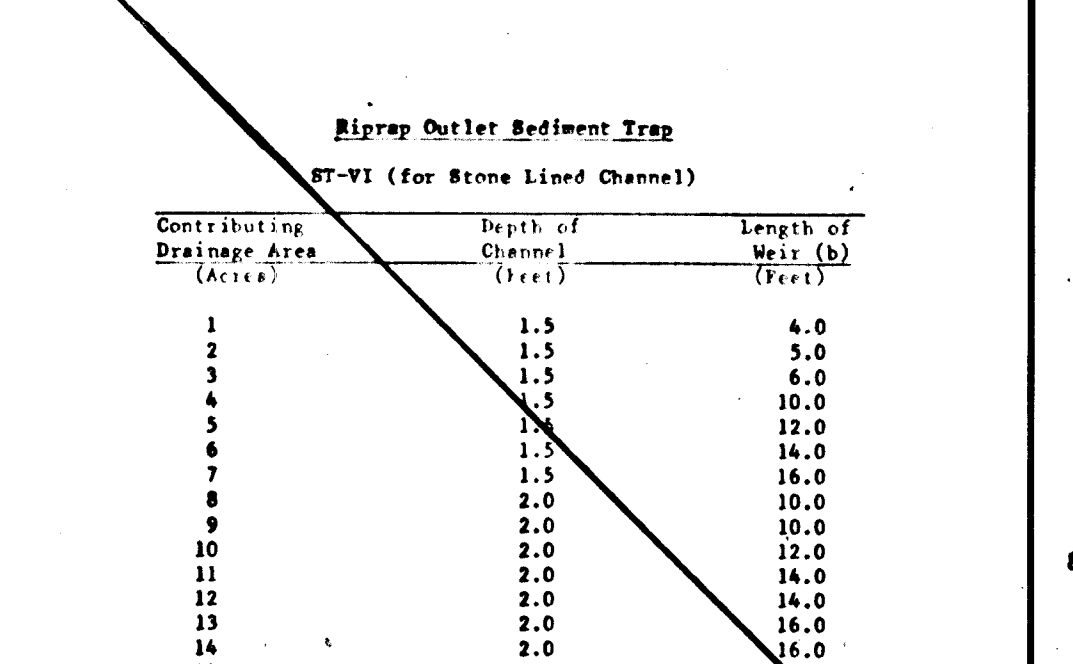
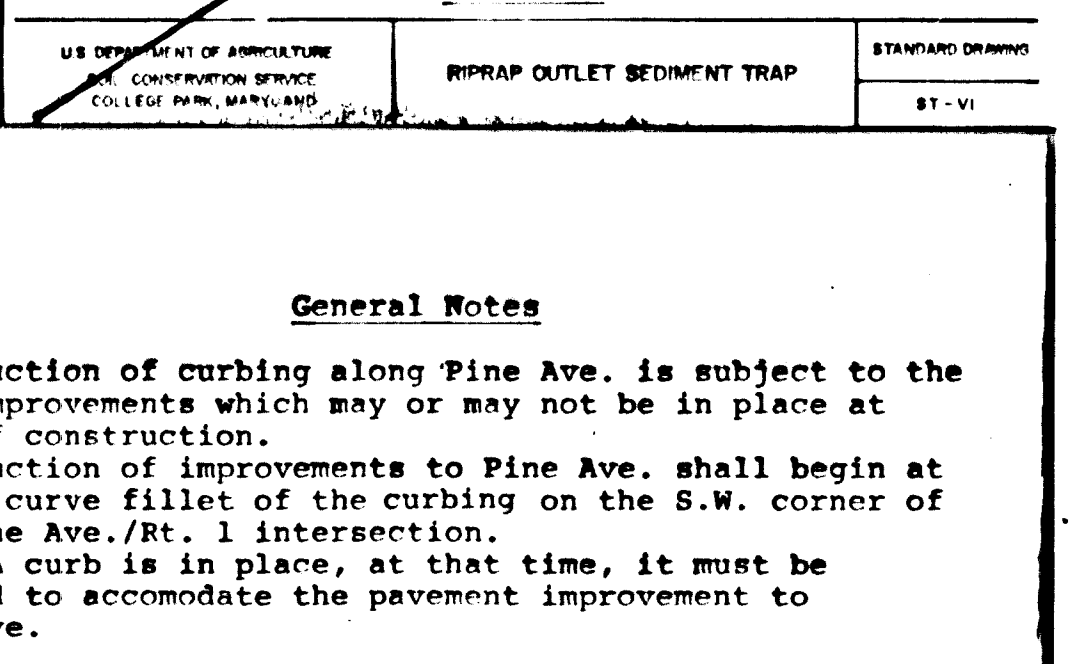
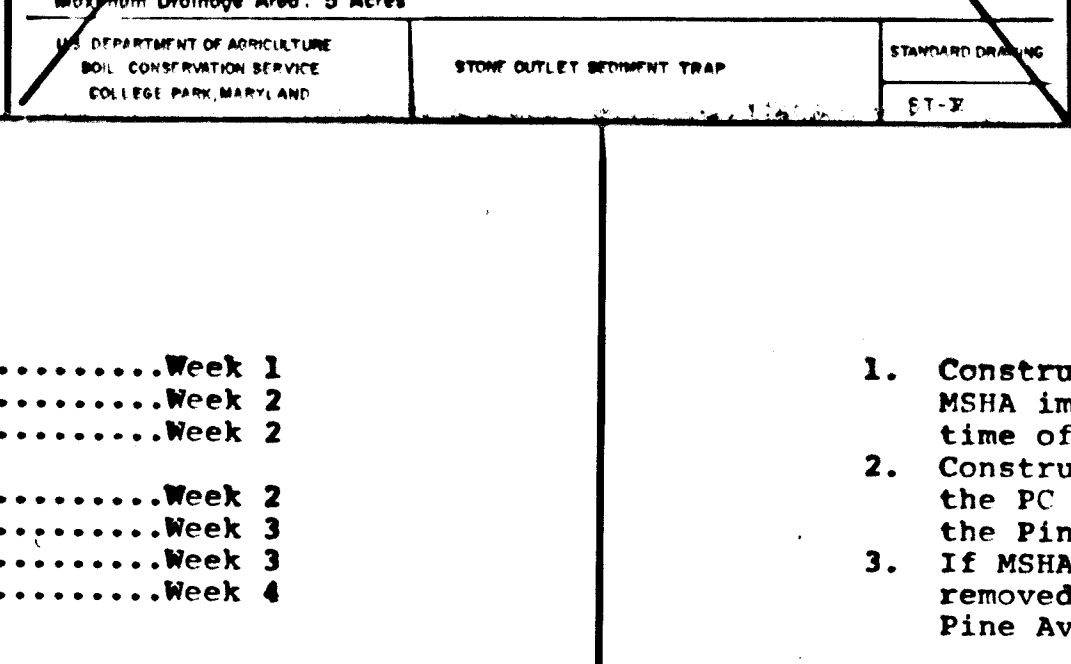
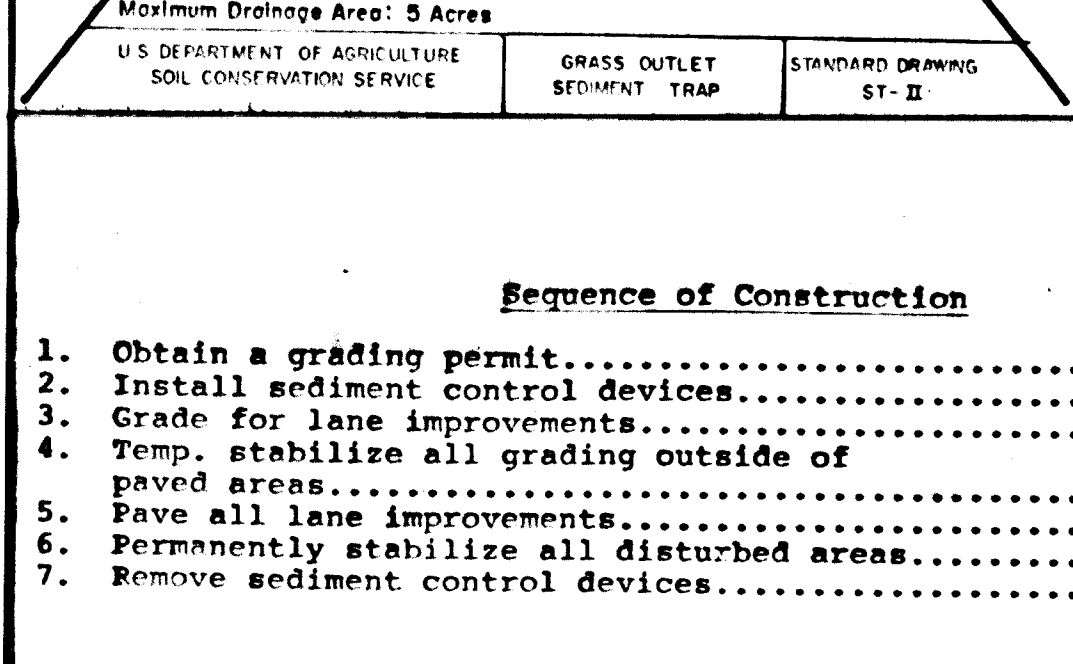
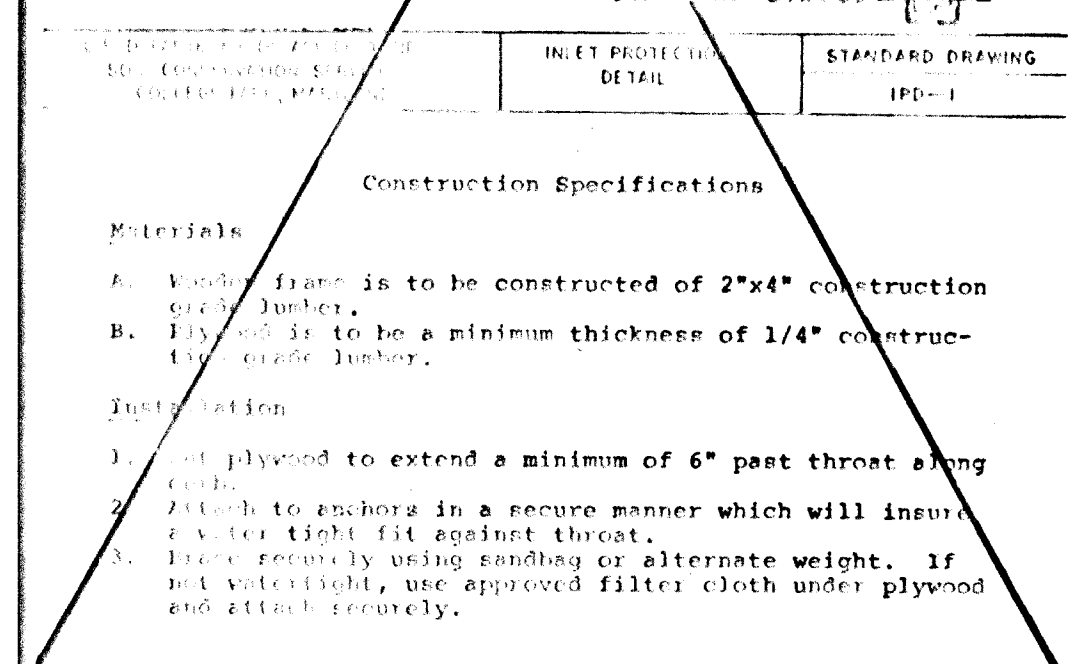
Total Area of Site	115 Acres
Area Disturbed	115 Acres
Area to be roofed or paved	0.76 Acres
Area to be vegetatively stabilized	0.38 Acres
Total Cut	200,000 cu. yds.
Total Fill	200,000 cu. yds.
Offset waste/borrow area	100,000 sq. ft.
- 8) Any sediment control practice which is disturbed by grading activity 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 DWM sediment control inspector.



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REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS.

John M. DeLoach 12-10-86

SOIL CONSERVATION SERVICE

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

Stephen L. Fisher 12-10-86

Sequence of Construction

1. Obtain a grading permit.....	Week 1
2. Install sediment control devices.....	Week 2
3. Grade for lane improvements.....	Week 2
4. Temp. stabilize all grading outside of paved areas.....	Week 2
5. Pave all lane improvements.....	Week 3
6. Permanently stabilize all disturbed areas.....	Week 3
7. Remove sediment control devices.....	Week 4

General Notes

1. Construction of curbing along Pine Ave. is subject to the MSHA improvements which may or may not be in place at time of construction.
2. Construction of improvements to Pine Ave. shall begin at the PC curve fillet of the curbing on the S.W. corner of the Pine Ave./Rt. 1 intersection.
3. If MSHA curb is in place, at that time, it must be removed to accommodate the pavement improvement to Pine Ave.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John M. DeLoach 12-11-86

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John M. DeLoach 12-12-86

OWNER: APA TRANSPORT CORP. 2100 88th ST. NORTH BERGEN, N.J. 07047 (201) 869-6600 C/O MR. DOMINIC ALFSSO

DEVELOPER: APA TRANSPORT CORP. 2100 88th ST. NORTH BERGEN, N.J. 07047 (201) 869-6600 C/O MR. ROBERT SPANH

Signature *John M. DeLoach* Date 12-10-86

Title SUPERINTENDENT Phone No. 2100 88th ST. NORTH BERGEN, NEW JERSEY 07047

Signature *John M. DeLoach* Date 12-10-86

Title SUPERINTENDENT Phone No. 2100 88th ST. NORTH BERGEN, NEW JERSEY 07047

Signature *John M. DeLoach* Date 12/4/86

Title REGISTERED PROFESSIONAL ENGINEER

Signature *John M. DeLoach* Date 12/4/86

Title REGISTERED PROFESSIONAL ENGINEER

Signature *John M. DeLoach* Date 12/4/86

Title REGISTERED PROFESSIONAL ENGINEER

KIPPE CONSULTANTS, INC.

ENGINEERS • PLANNERS • SURVEYORS

1100 WEST STREET / SUITE 100 / LAUREL, MD 20707 (Wash.) (301) 953-1821 / 792-8086 (Balt.)

SEDIMENT CONTROL DETAIL SHEET

ROAD TO PINE AVE. PARCELS 1 & 2

S. HANOVER ROAD & PINE AVE. TAX MAP 38 PARCELS 1 & 2

HOWARD COUNTY DISTRICT

NOV. 1986

AS SHOWN