

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 3 inches of soil by raking, disking, or other acceptable means before seeding, IF NOT PREVIOUSLY LOOSENED.

Soil Amendments: Use on 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. Narrow 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. Narrow 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. of 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 well-anchored straw mulch, and seed as soon as possible in the spring. Option 2 - Use sod. Option 3 - Seed with 60 lbs. per acre Kentucky 31 "1" 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./1000 sq.ft.) of unrotted small grain straw 1/4" thick 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

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, disking, 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 lbs. 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 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet 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 methods not covered.

By the Developer:

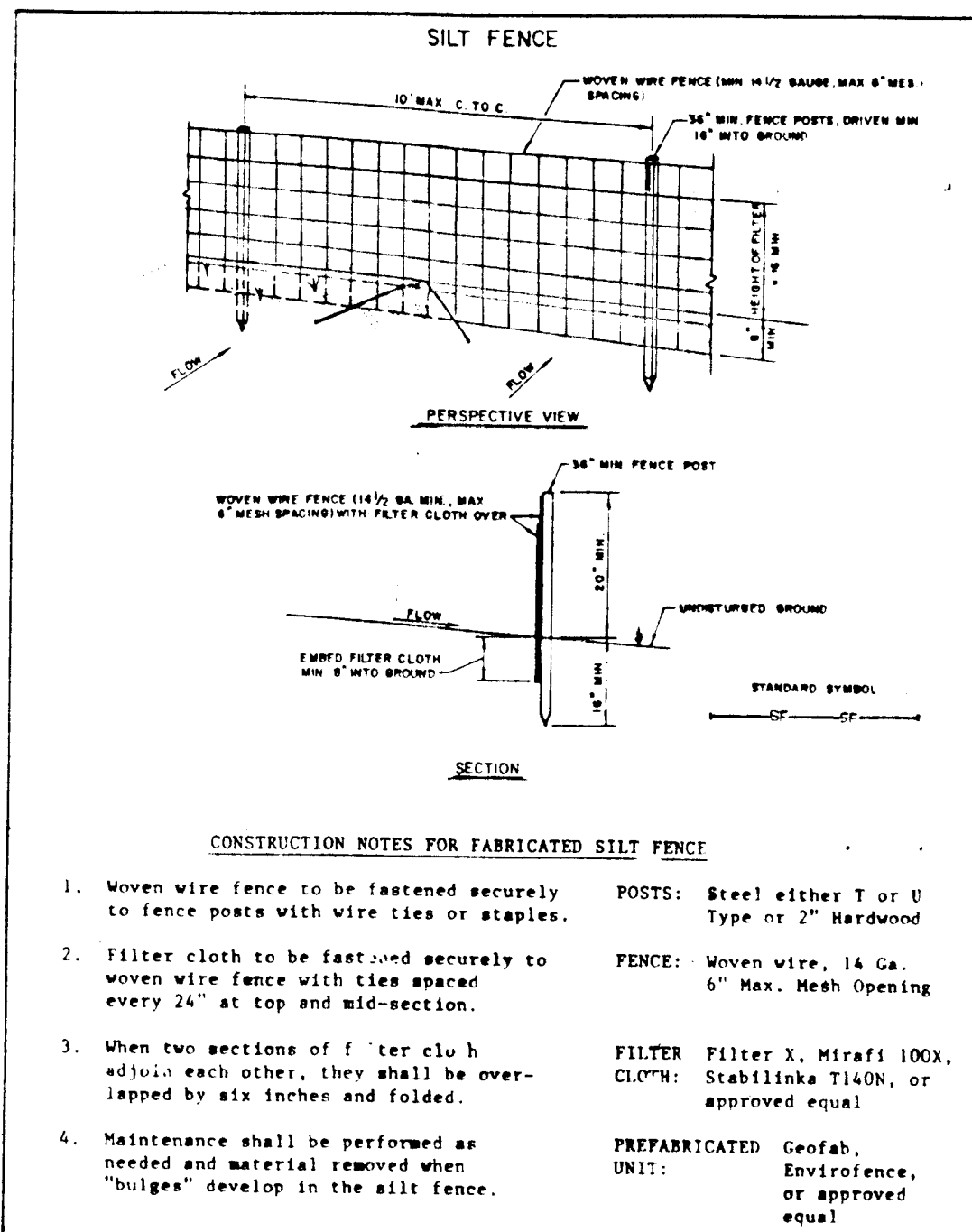
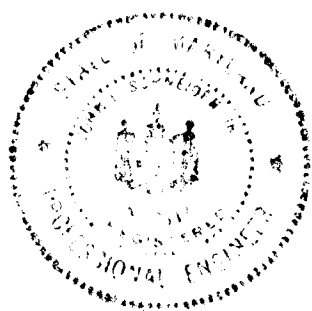
"I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Developer: Michael D. Conell
Date: 11-27-87

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."

Signature of Engineer: [Signature]
Date: [Date]



SILT FENCE DETAIL

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) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes 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 them, as required 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 seeding (Sec. 51), sod (Sec. 54), temporary stabilization with mulch (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch along can only be done when recommended seeding dates do not allow 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	0.24 acres
Area disturbed	0.24 acres
Area to be roofed or paved	0.18 acres
Area to be vegetatively stabilized	0.06 acres
Total cut	0 cu.yds.
Total fill	431.0 cu.yds.
Office waste/borrow area location	TO BE DETERMINED
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 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. 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.

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

Signature: [Signature]
Date: 11/27/87
Howard S.C.D.

Reviewed for: HOWARD S.C.D. and mets

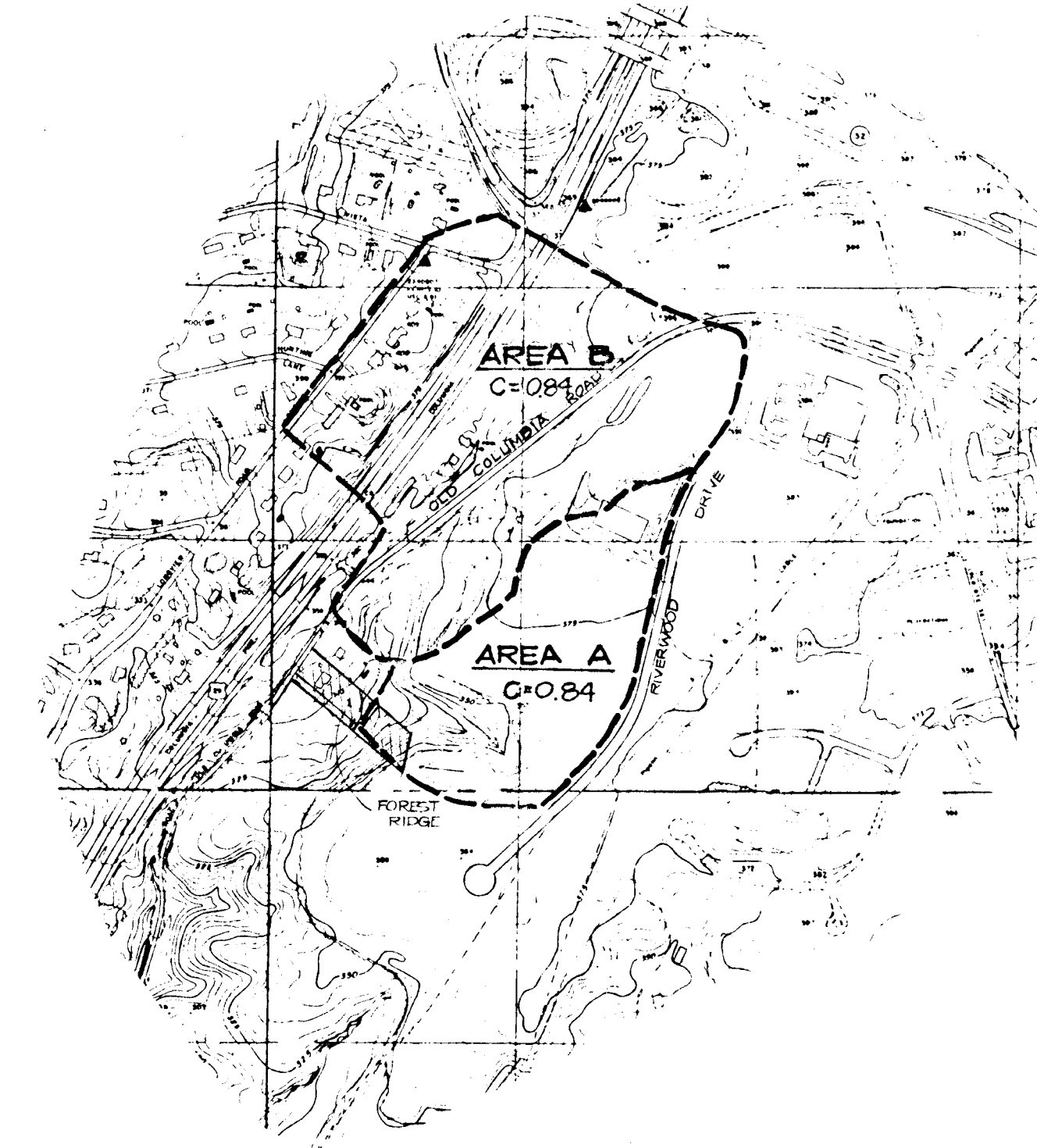
Technical Requirements:

Signature: [Signature]
Date: 2-4-88
U.S. Soil Conservation Service

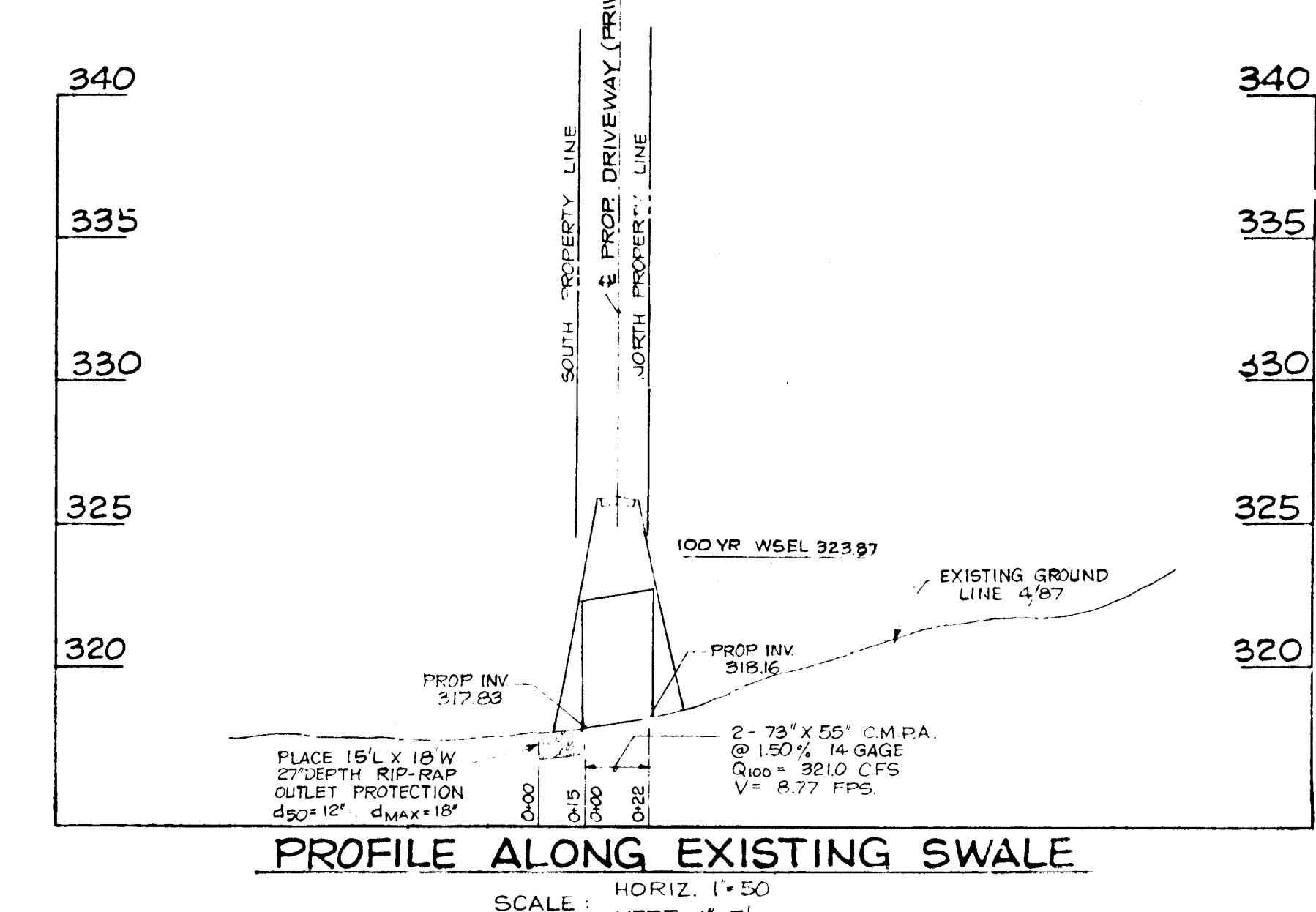
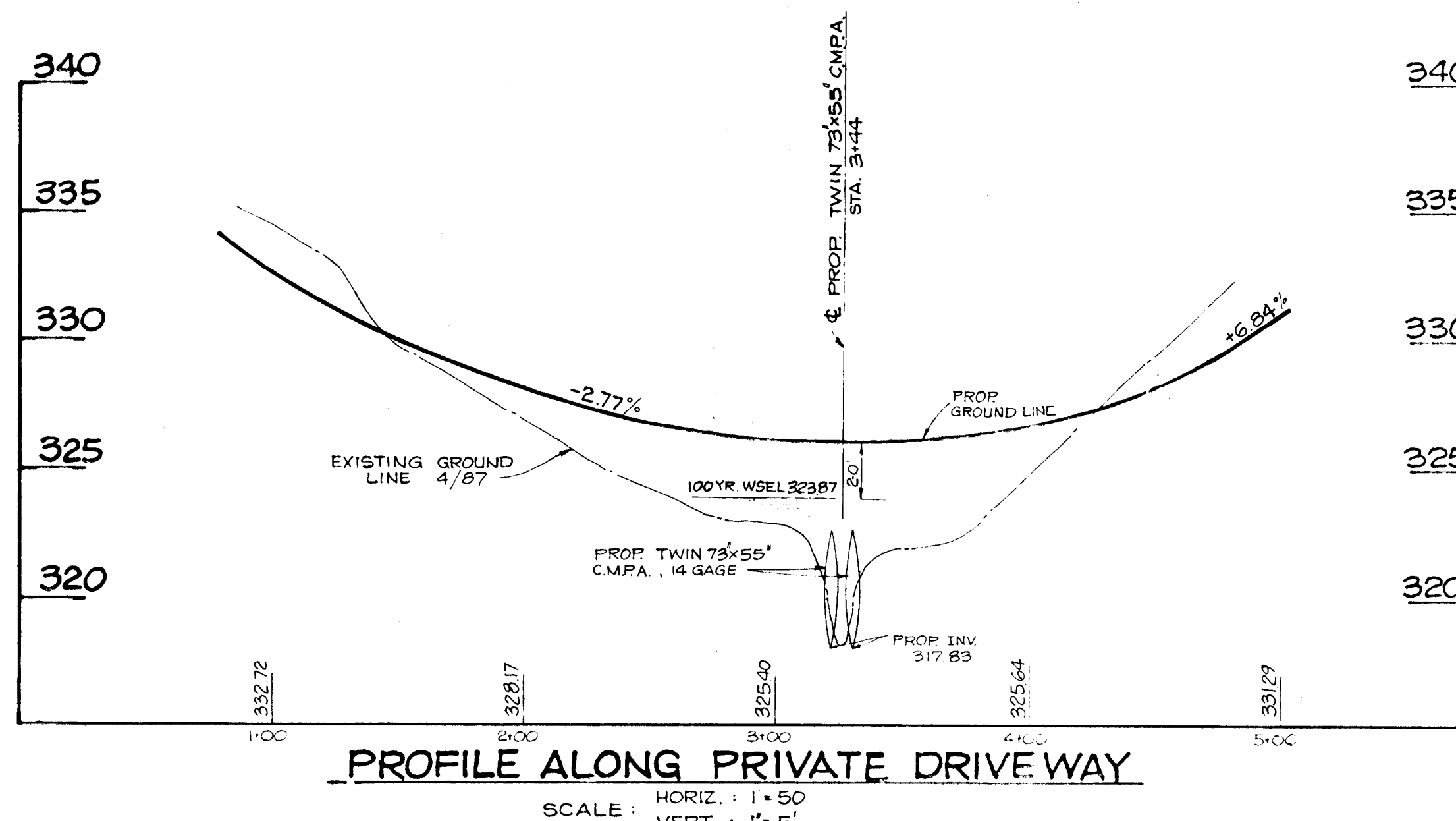
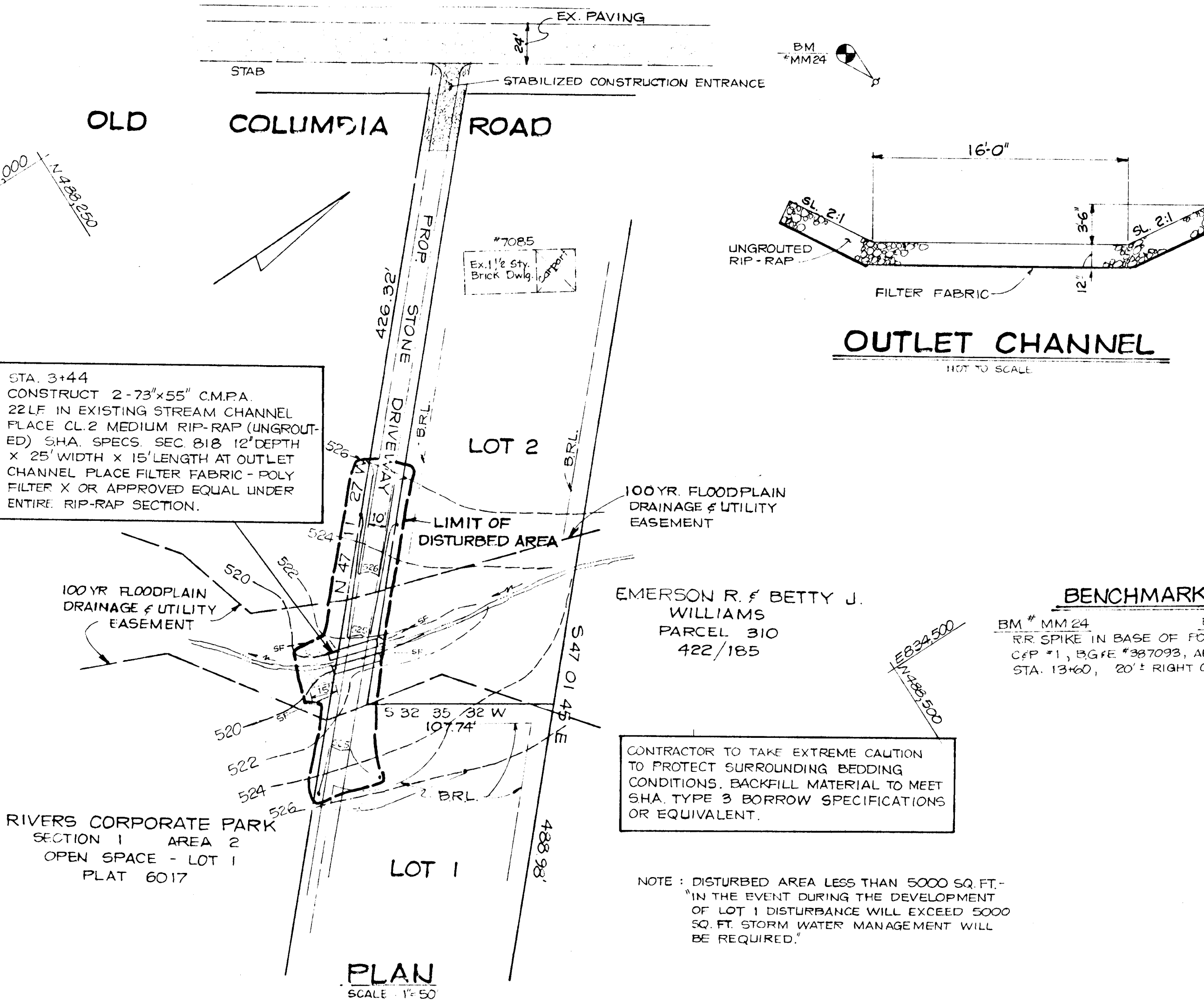
SEQUENCE OF CONSTRUCTION

1. OBTAIN THE REQUIRED GRADING PERMIT.
2. INSTALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PLAN. 0.5 DAYS
3. CLEAR SITE AS NECESSARY AND ROUGH GRADE ROAD. 1 DAY
4. INSTALL STORM DRAIN AND RELATED FACILITIES; FINE GRADE AND SURFACE ROAD. 3 DAYS
5. VEGETATIVELY STABILIZE ALL DISTURBED AREAS. 2 DAYS
6. AFTER APPROVAL FROM THE INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE AREAS AS REQUIRED. 0.5 DAYS

DESIGN DATA				
AREA	ACRES	C	K100	Q100
A	20.41	0.84		126 c.f.s.
B	45.50	0.84		195 c.f.s.



DRAINAGE AREA MAP
SCALE: 1"=600'



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION
[Signature] DATE: 3/1/88

CHIEF, BUREAU OF HIGHWAYS
[Signature] DATE: 3/1/88

CHIEF, BUREAU OF ENGINEERING
[Signature] DATE: 3/1/88

APPROVED: OFFICE OF PLANNING AND ZONING
[Signature] DATE: 3/1/88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
[Signature] DATE: 3/1/88

OWNER: RICHARD I THOMAS
7089 OLD COLUMBIA RD.
COLUMBIA, MD. 21044
TELEPHONE: 301-531-5984

ENGINEER: HUDKINS ASSOCIATES INC.
SUITE 231, HARPERS CHOICE VIL. CTR.
COLUMBIA, MD. 21044
TELEPHONE: 301-730-9060

FOREST RIDGE CULVERT CROSSING PRIVATE DRIVEWAY LOT 1

PARCEL 311 TAX MAP 41 ZONED R 20
6TH ELECTION DISTRICT HOWARD COUNTY, MD.
OCTOBER 26, 1987 SCALE: AS SHOWN