

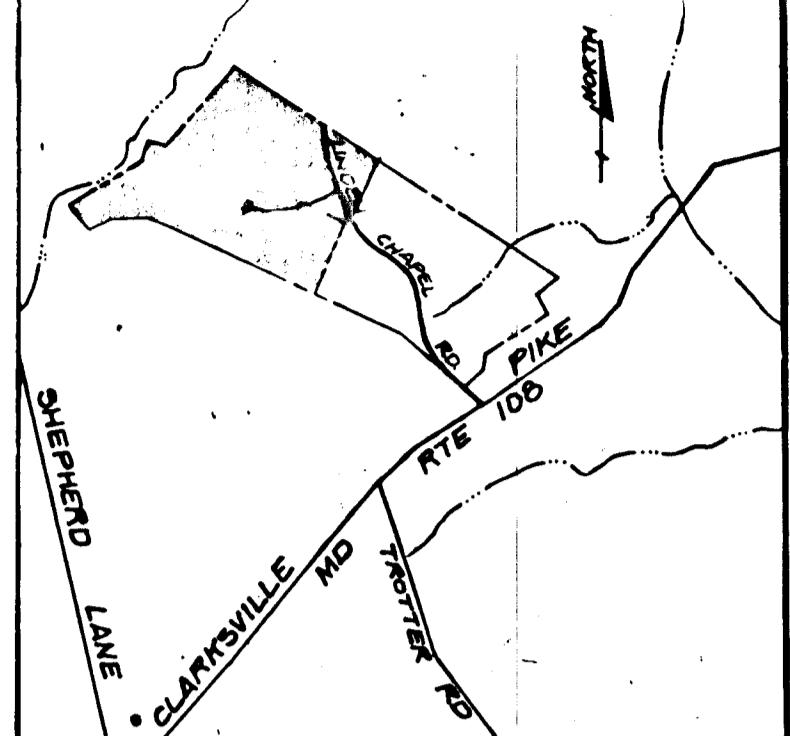
PLAN	DATE	BY
NO.		

PROFILE	DATE	BY
NO.		

INDEX OF SHEETS

SHEET	TITLE
1 of 8	Road Plan & Profile-Linden Chapel Road
2 of 8	Road Plan & Profile-CHAPEL woods Court
3 of 8	Grading & Sediment Control
4 of 8	Grading & Sediment Control
5 of 8	Detail Sheet
6 of 8	Sediment Control Detail Sheet
7 of 8	Drainage Area Map
8 of 8	Soils Map

BM LOCATION
 HQ CO MONUMENT NO 2736003
 ELEV 415.06
 MONUMENT LOCATED ± 620'
 NORTH OF LINDEN CHAPEL ROAD,
 N.W. SIDE OF MD RTE 106.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Shullman 11/2/87
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

**ROAD PLAN and PROFILE
 EXTENSION of
 LINDEN CHAPEL ROAD**

SHEET 1 OF 8
KIDDE CONSULTANTS, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1100 WEST STREET, SUITE 100 • LAUREL, MD 20707
 (WASH.) (301) 953-1821 • (752) 8585 (Bart)
JOHN E. C. PATMORE
 MD PE 8978
 DATE: JULY 1987 SCALE: AS SHOWN

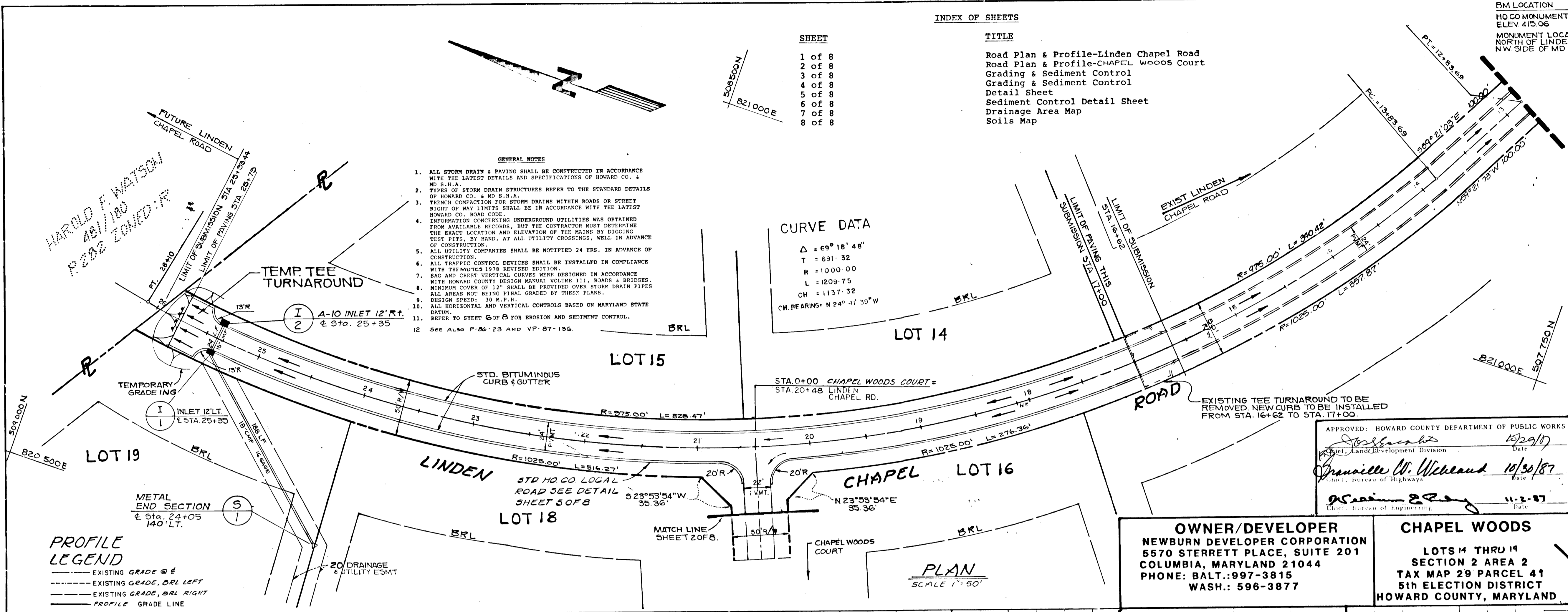
OWNER/DEVELOPER
 NEWBURN DEVELOPER CORPORATION
 5570 STERRETT PLACE, SUITE 201
 COLUMBIA, MARYLAND 21044
 PHONE: 997-3815
 WASH.: 596-3877

CHAPEL WOODS
 LOTS 14 THRU 19
 SECTION 29 PARCEL 41
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

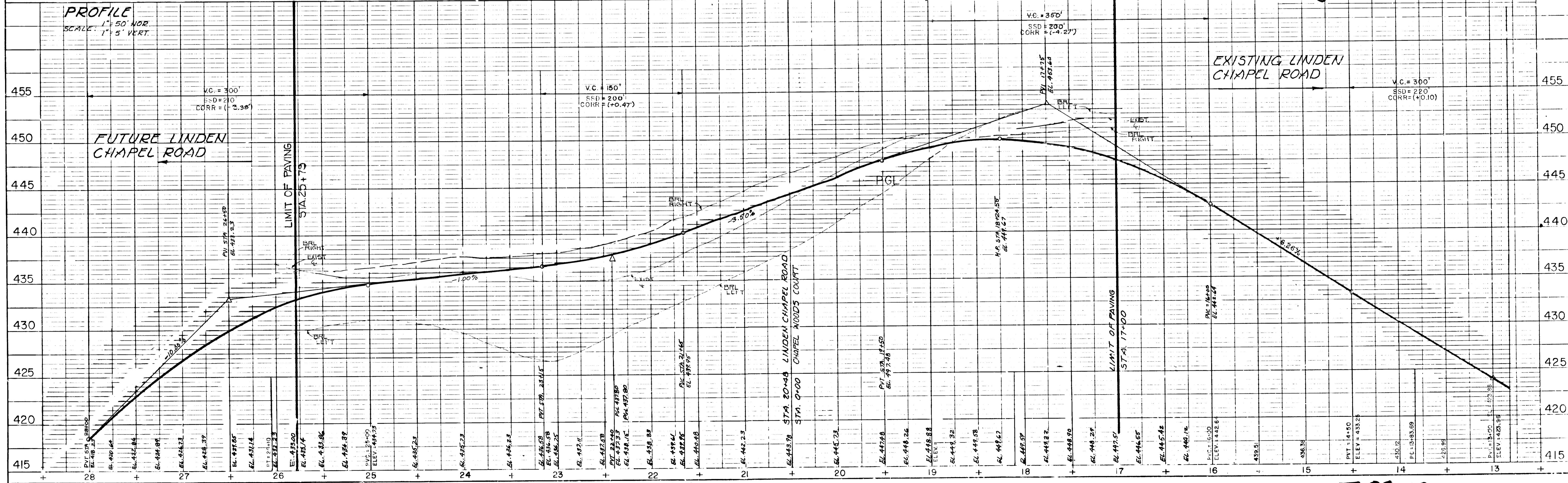
- GENERAL NOTES**
- ALL STORM DRAIN & PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD CO. & MD S.H.A.
 - TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD CO. & MD S.H.A.
 - FRENCH CONNECTION FOR STORM DRAINS WITHIN ROADS OR STREET RIGHT OF WAY LIMITS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD CO. ROAD CODE.
 - INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND, AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF CONSTRUCTION.
 - ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HRS. IN ADVANCE OF CONSTRUCTION.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUAL 318 REVISED EDITION.
 - SAG AND CREST VERTICAL CURVES WERE DESIGNED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME 111, ROADS & BRIDGES. MINIMUM COVER OF 12" SHALL BE PROVIDED OVER STORM DRAIN PIPES ALL AREAS NOT BEING FINAL GRADED BY THESE PLANS.
 - DESIGN SPEED: 30 M.P.H.
 - ALL HORIZONTAL AND VERTICAL CONTROLS BASED ON MARYLAND STATE DATUM.
 - REFER TO SHEET 6 OF 8 FOR EROSION AND SEDIMENT CONTROL.
 - SEE ALSO P. 23 AND VP. 87-156.

CURVE DATA

Δ = 69° 18' 48"
 T = 691.32
 R = 1000.00
 L = 1209.75
 CH = 1137.32
 CH BEARING = N 24° 41' 30" W

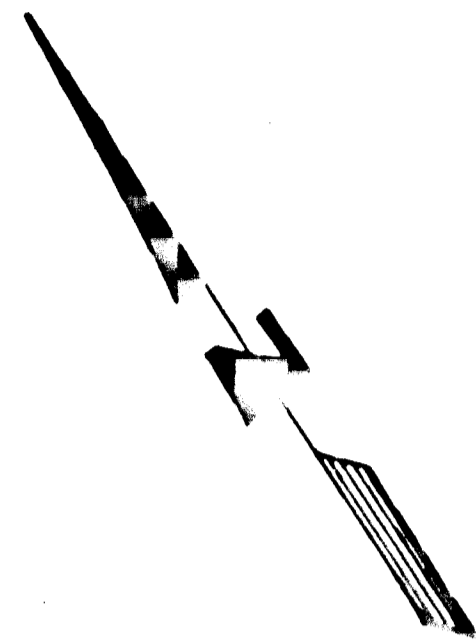


PROFILE LEGEND
 - - - - - EXISTING GRADE @ E
 - - - - - EXISTING GRADE, BRL LEFT
 - - - - - EXISTING GRADE, BRL RIGHT
 ——— PROFILE GRADE LINE



717

DATE	REVISIONS
11/21/87	REVISED PROFILE
9/21/88	REVISED PROFILE



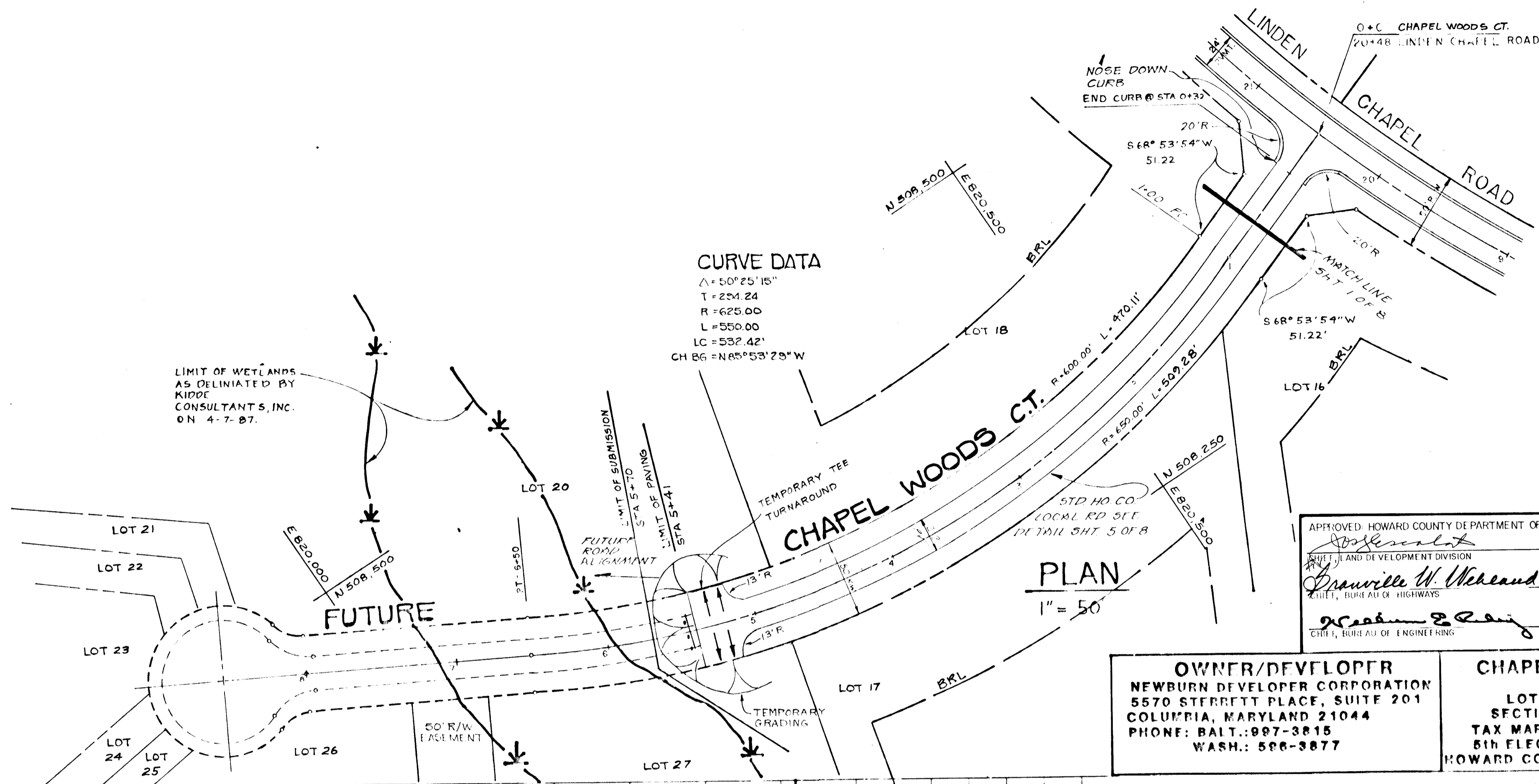
PLAN

PROFILE

717

PROFILE LEGEND
 - - - - - EXISTING GRADE @ 5'
 - - - - - EXISTING GRADE, BRL LEFT
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 ——— PROFILE GRADE LINE

PROFILE
 SCALE: 1" = 50' HOR.
 1" = 5' VERT.

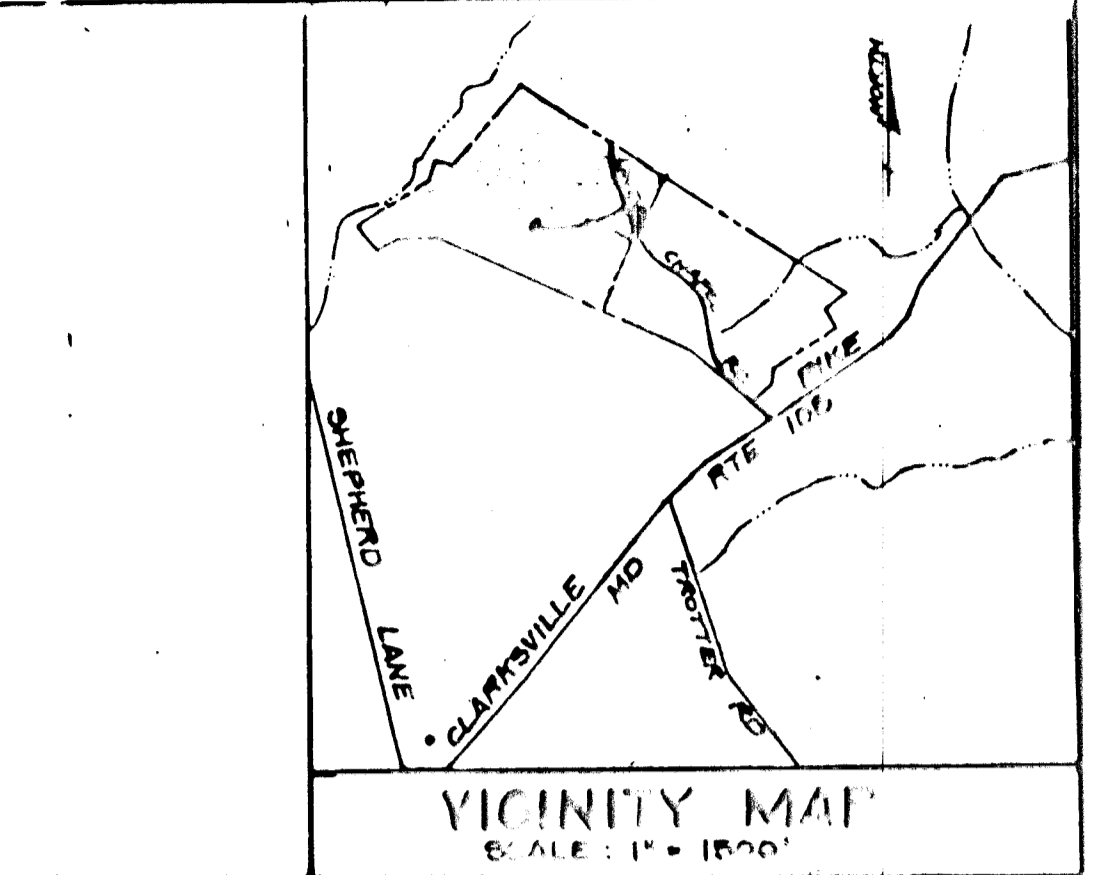


APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 10/21/87
 DATE 10/21/87
 DATE 11-2-87

OWNER/DEVELOPER
 NEWBURN DEVELOPER CORPORATION
 5570 STERRETT PLACE, SUITE 201
 COLUMBIA, MARYLAND 21044
 PHONE: BALT.: 997-3815
 WASH.: 586-3877

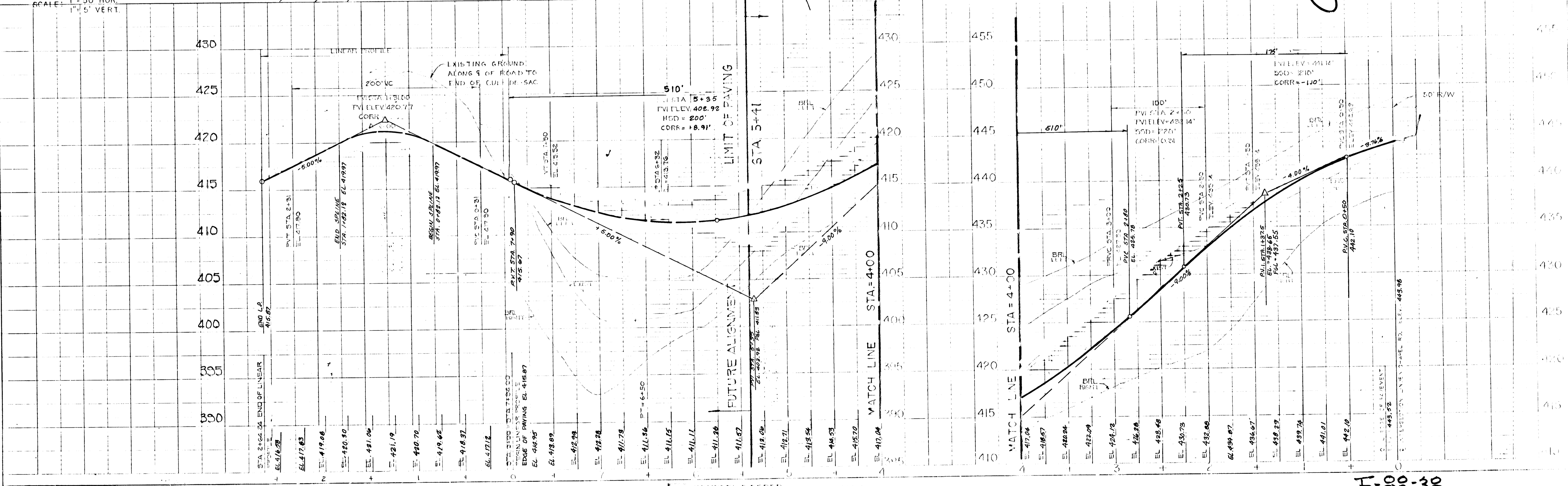
CHAPEL WOODS
 LOTS 14 THRU 19
 SECTION 2 AREA 2
 TAX MAP 29 PARCEL 41
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

KIRDE CONSULTANTS, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1100 WEST STREET, SUITE 100, LAUREL, MD 20784
 JOHN E. PATMORE, MD, PE, RSTP
 DATE: JULY 1987 SCALE AS SHOWN

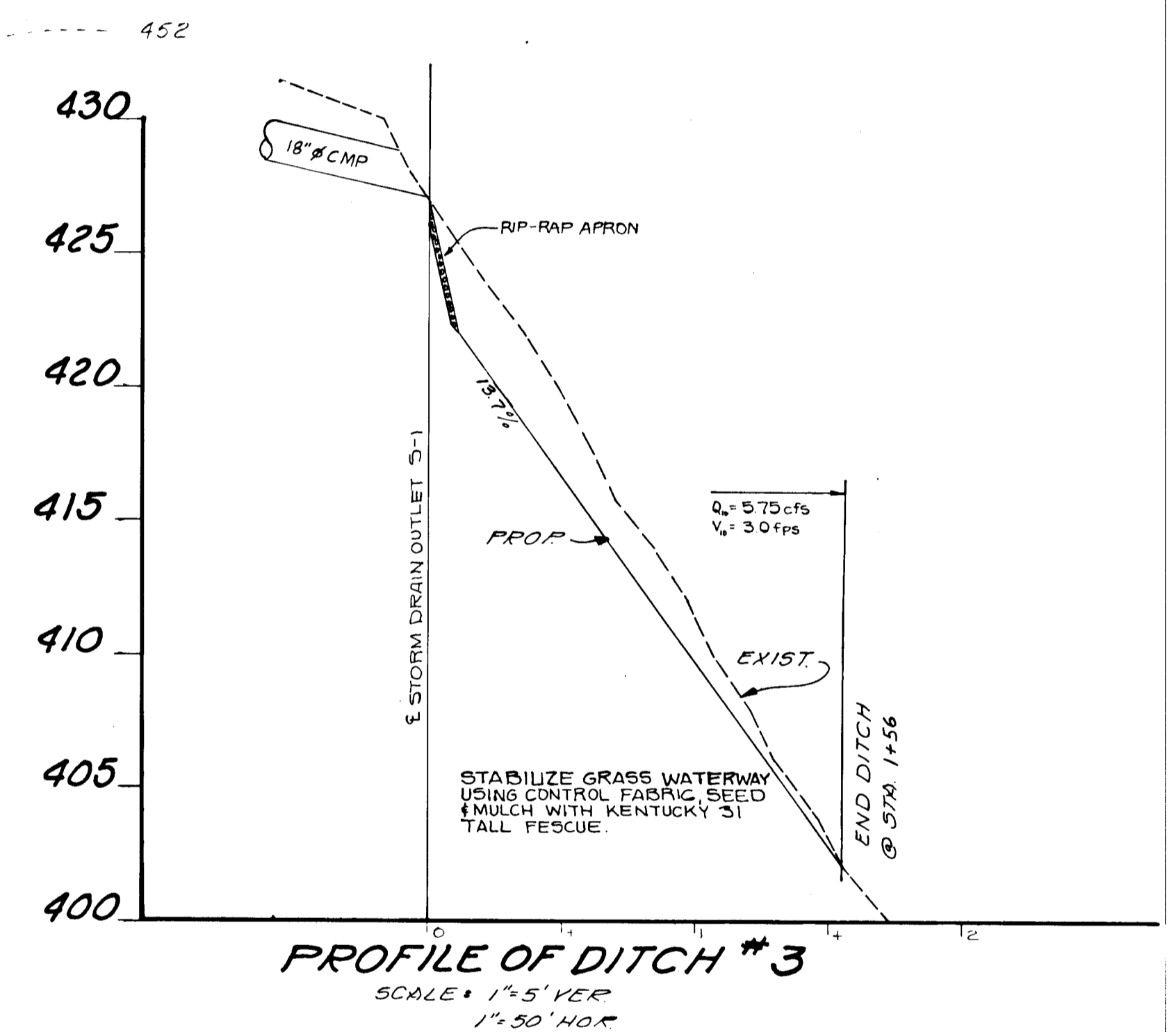
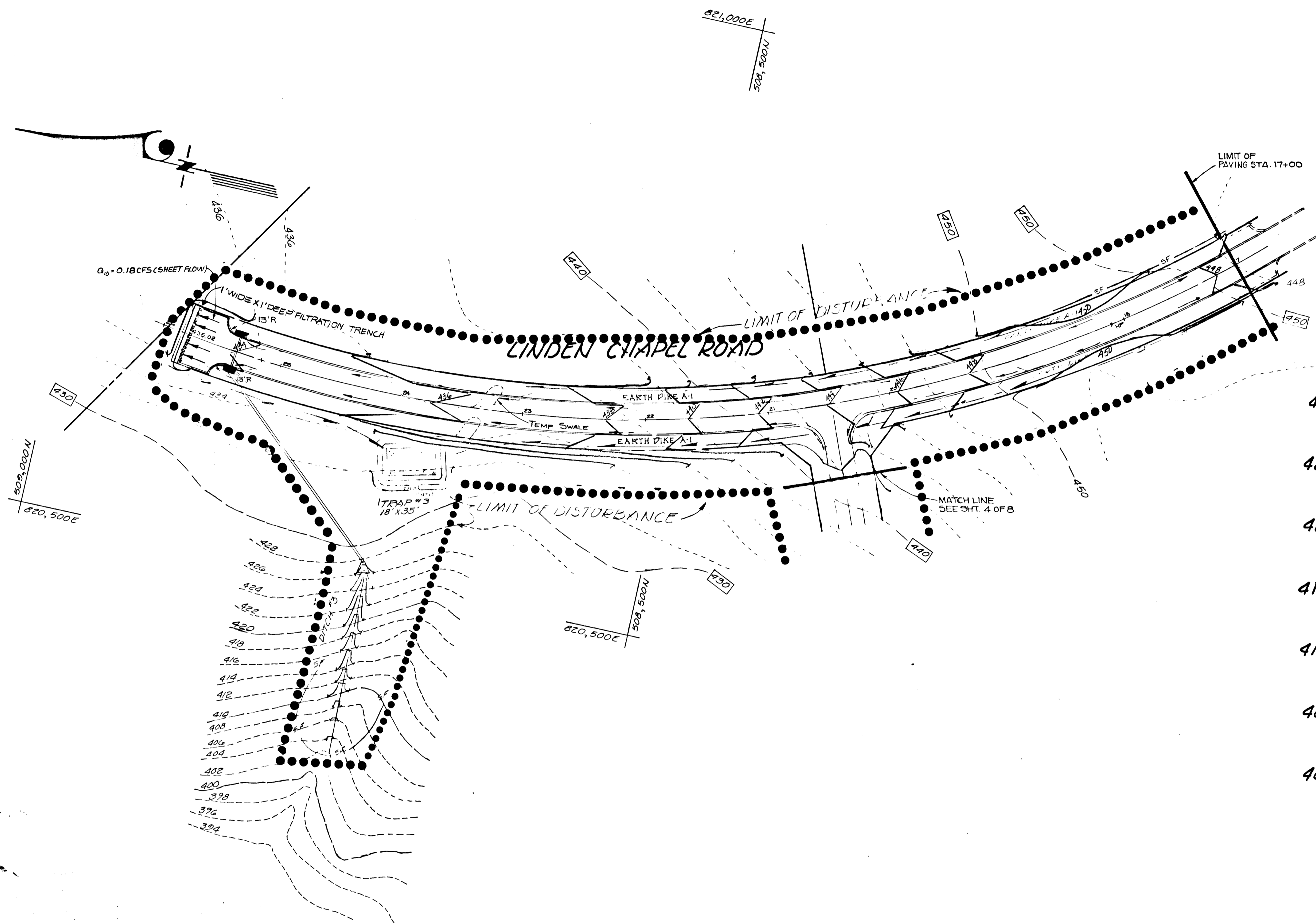
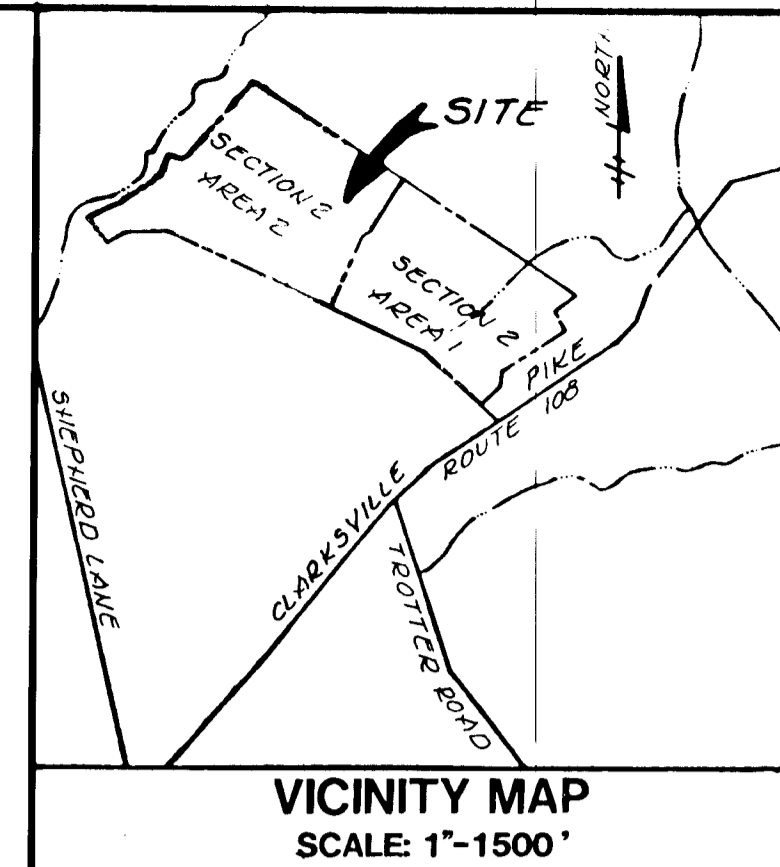


APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DATE 11-2-87
ROAD PLAN and PROFILE
CHAPEL WOODS COURT

SHEET 2 OF 8



F-88-38



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chief, Land Development Division
 Lawrence W. McKeown 10/30/87
 Chief, Bureau of Engineering
 11-2-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 Chief, Division of Land Development and Zoning Administration
 11-16-87

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved Howard S.C.U.

ENGINEERS 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."
 Registered Professional Engineer #8478

OWNER'S/DEVELOPER'S CERTIFICATION
 "I/We 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: _____ Date: 7-21-87
 Name: _____ Title: _____ Phone No.: _____
 Firm: _____ Complete Address: _____

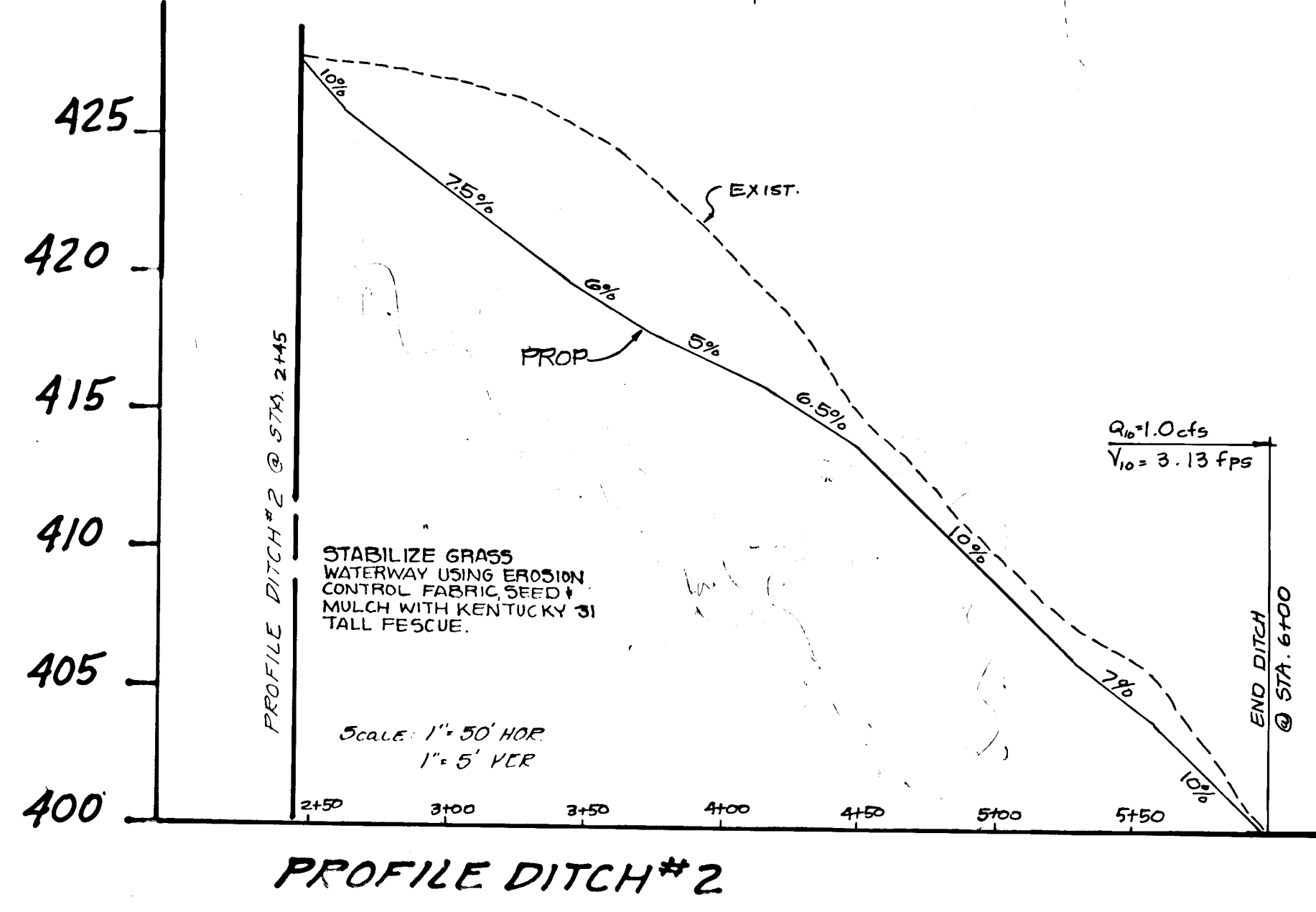
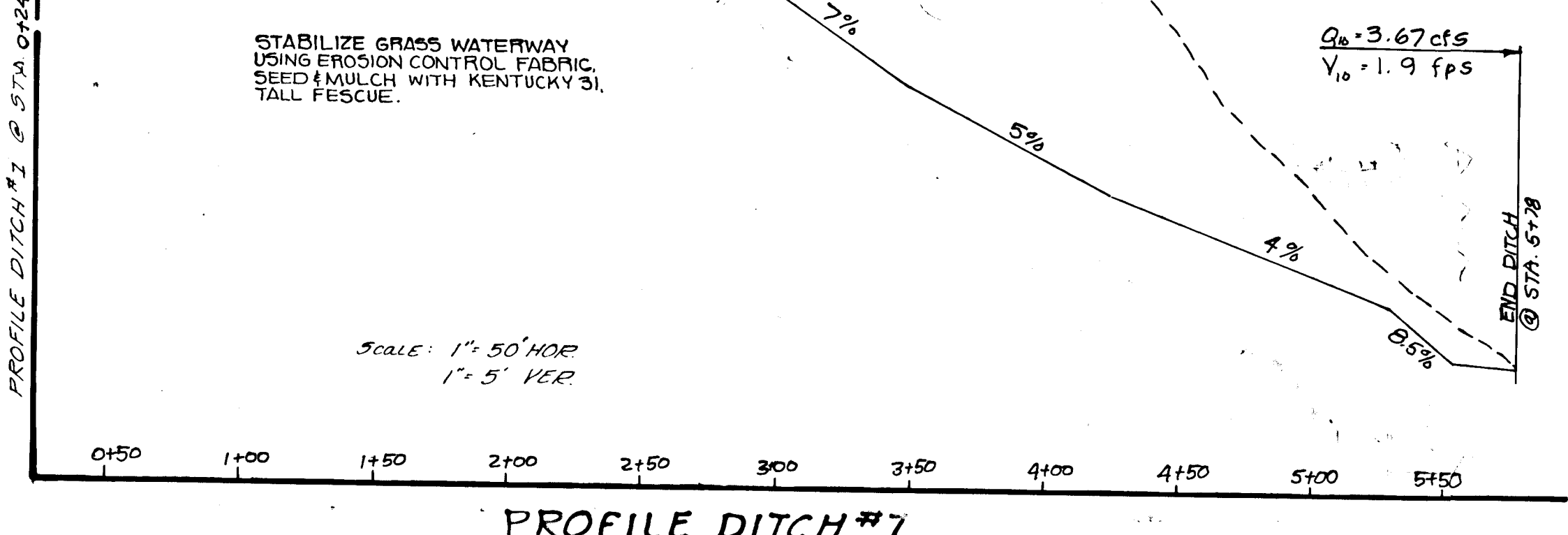
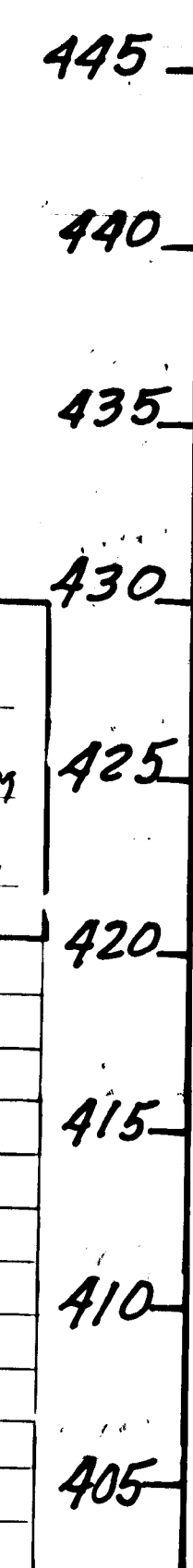
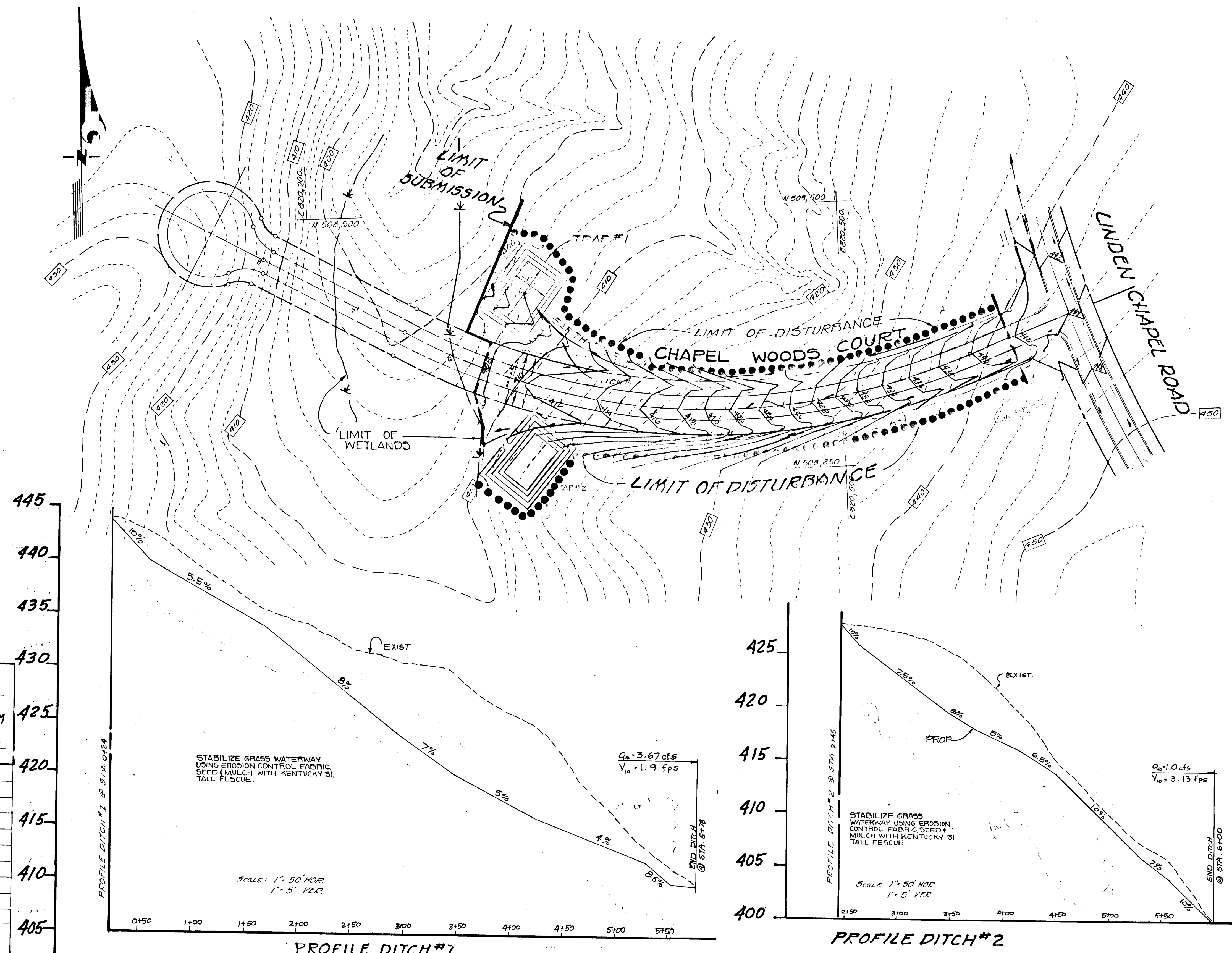
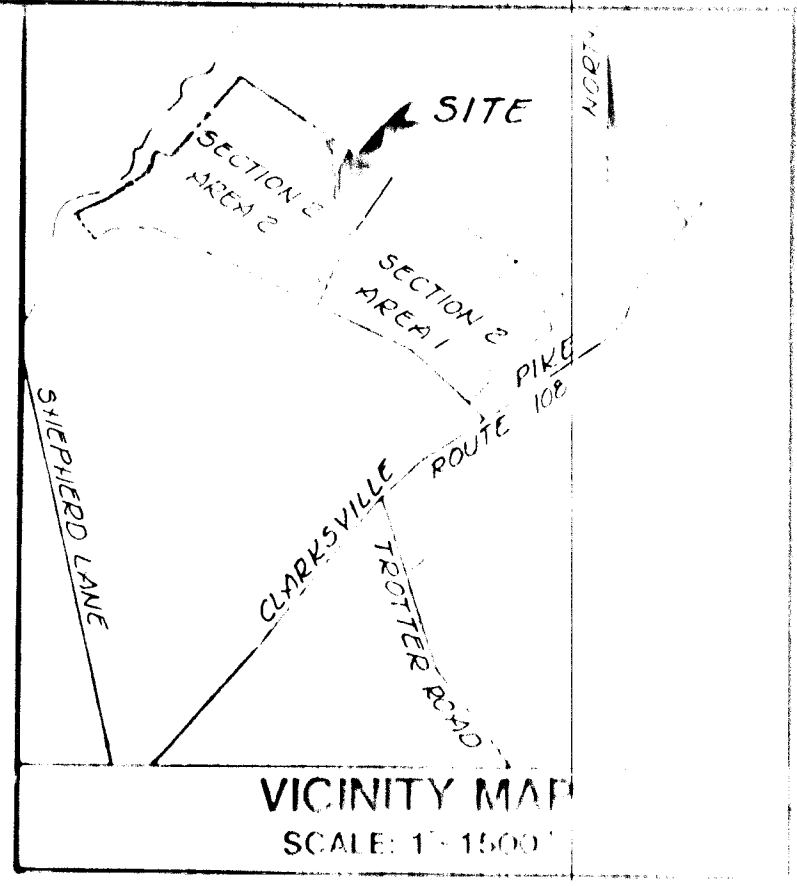
OWNER/DEVELOPER
 WBURN DEVELOPER CORPORATION
 5570 STERRET PLACE, SUITE 201
 COLUMBIA, MARYLAND 21044

GRADING AND SEDIMENT CONTROL PLAN
 FOR
 CHAPEL WOODS
 SECTION 2 AREA 2
 TAX MAP 29 PARCEL 41
 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

KIDDE CONSULTANTS, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1100 WEST STREET / SUITE 100 / LAUREL MD 20707
 (Wash.) (301) 953-1821 / 792-8086 (Balt.)

DATE: JULY, 1987 SCALE: 1"=50'

717



REVISED CONTOUR LINE 9/22/88

APPROVED-HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DEVELOPMENT DIVISION
 DATE 10/30/87
 DATE 11/20/87
 DATE 11/20/87

TRAMP NUMBER	1	2	3
TRAMP TYPE	RIP-RAP	RIP-RAP	RIP-RAP
DRAINAGE AREA (SQ FT)	315	43	16
STORAGE REQ	5670	7740	2880
FT ³ PROV	5748	7785	2880
OUTLET ELEV	403	413	431
BOTTOM ELEV	399	408	427
TOP EMBANK	405	415	433
STORAGE DEPTH	4	4	3
WEIR LENGTH			
CLEANOUT ELEV	401	410	425

GRADING AND SEDIMENT CONTROL PLAN
 FOR
CHAPEL WOODS
 SECTION 2 AREA 2
 TAX MAP 29 PARCEL 41
 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

APPROVED-HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DATE 11-6-87

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 DATE 10/19/87
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE 10/19/87

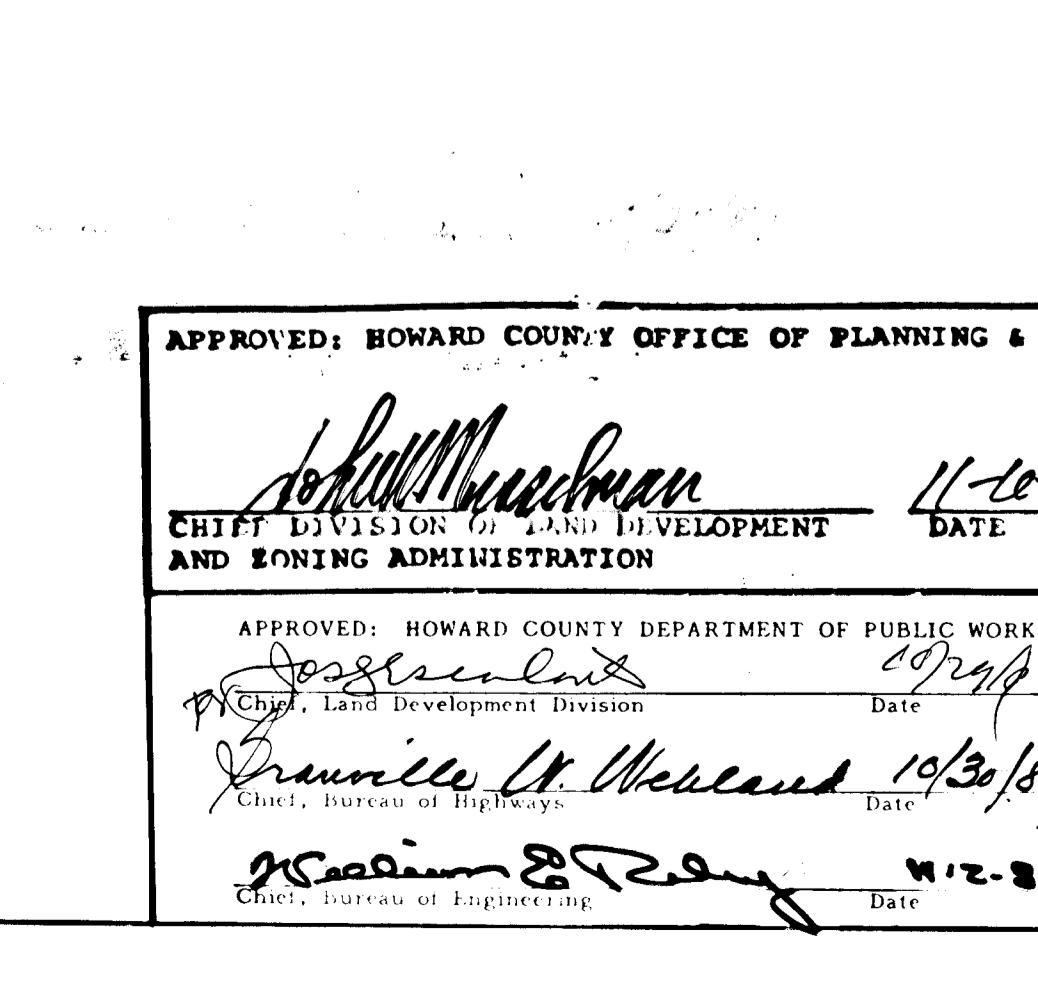
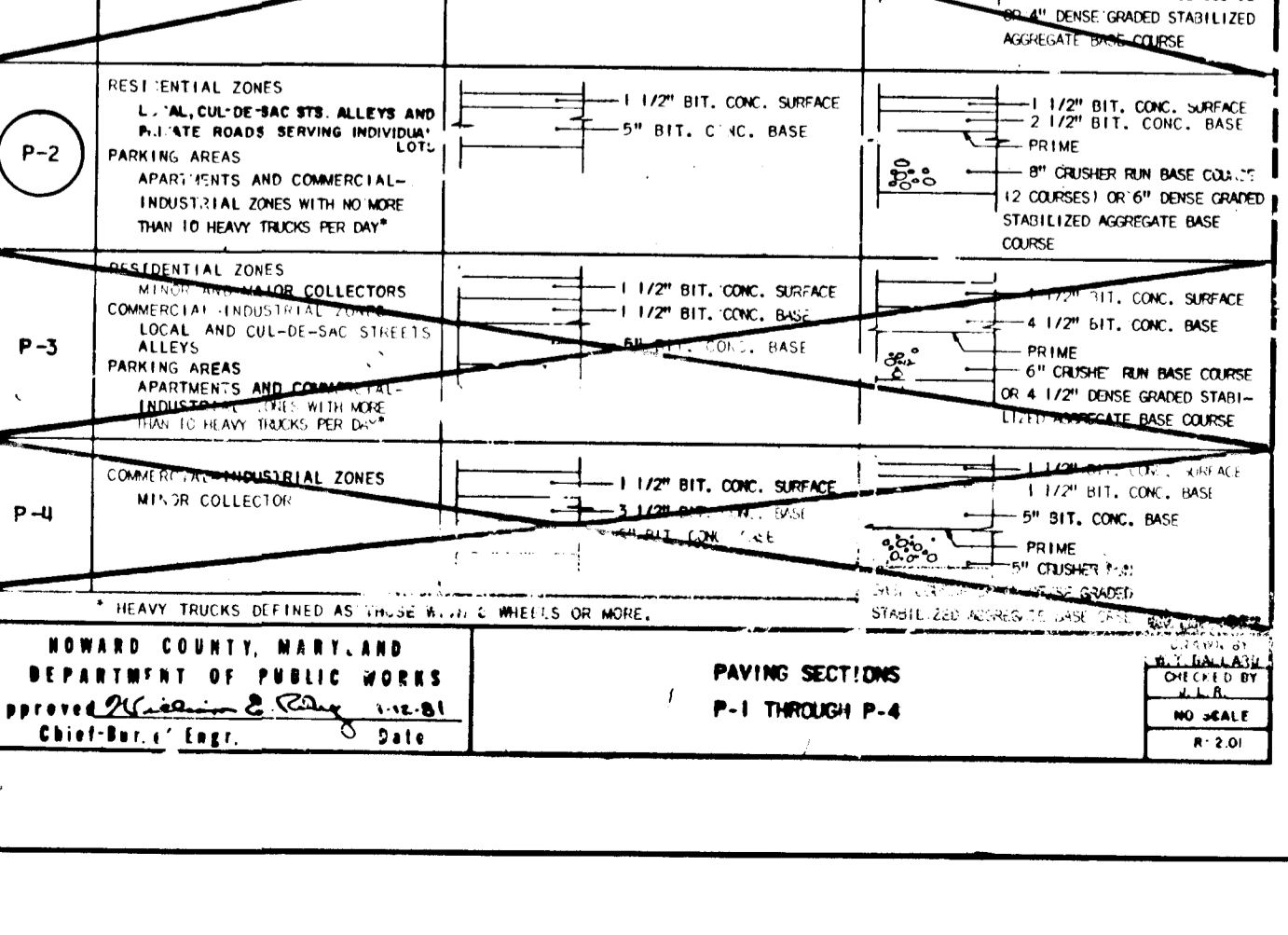
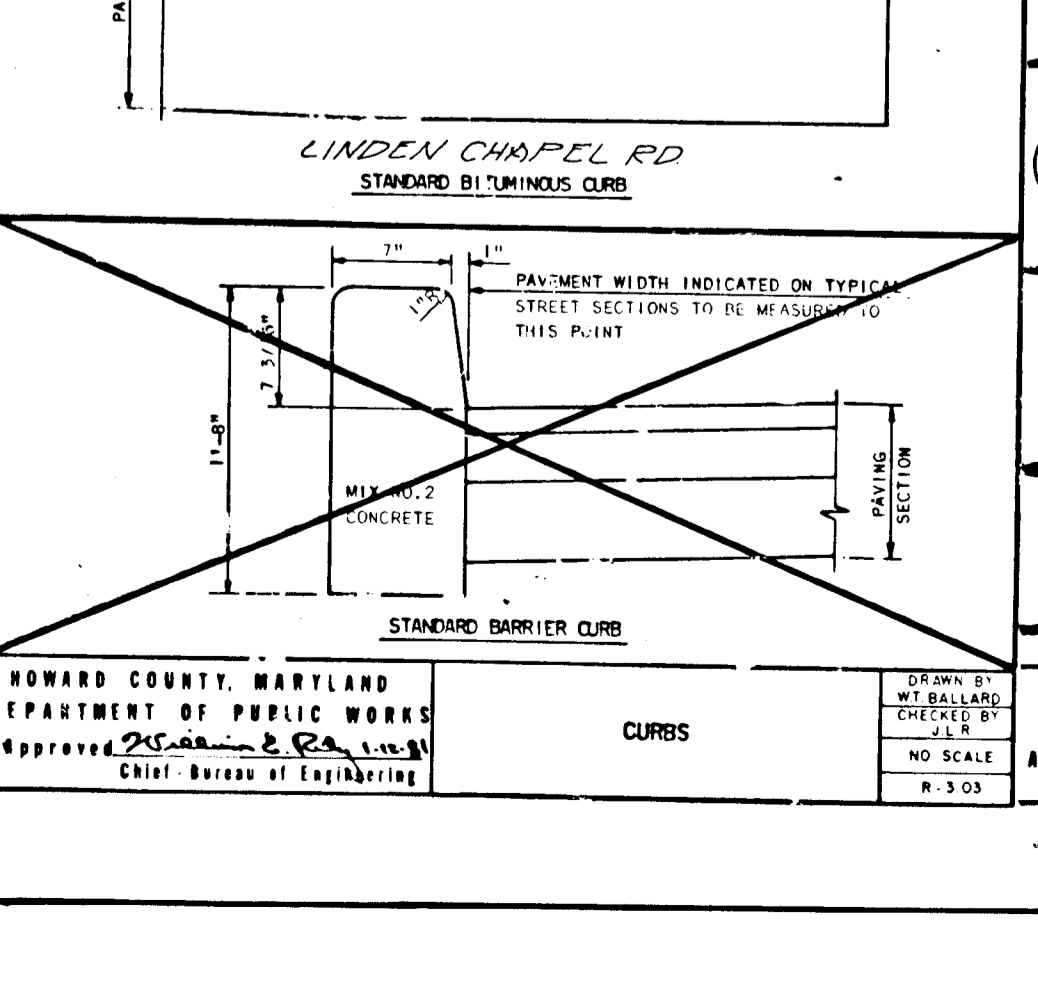
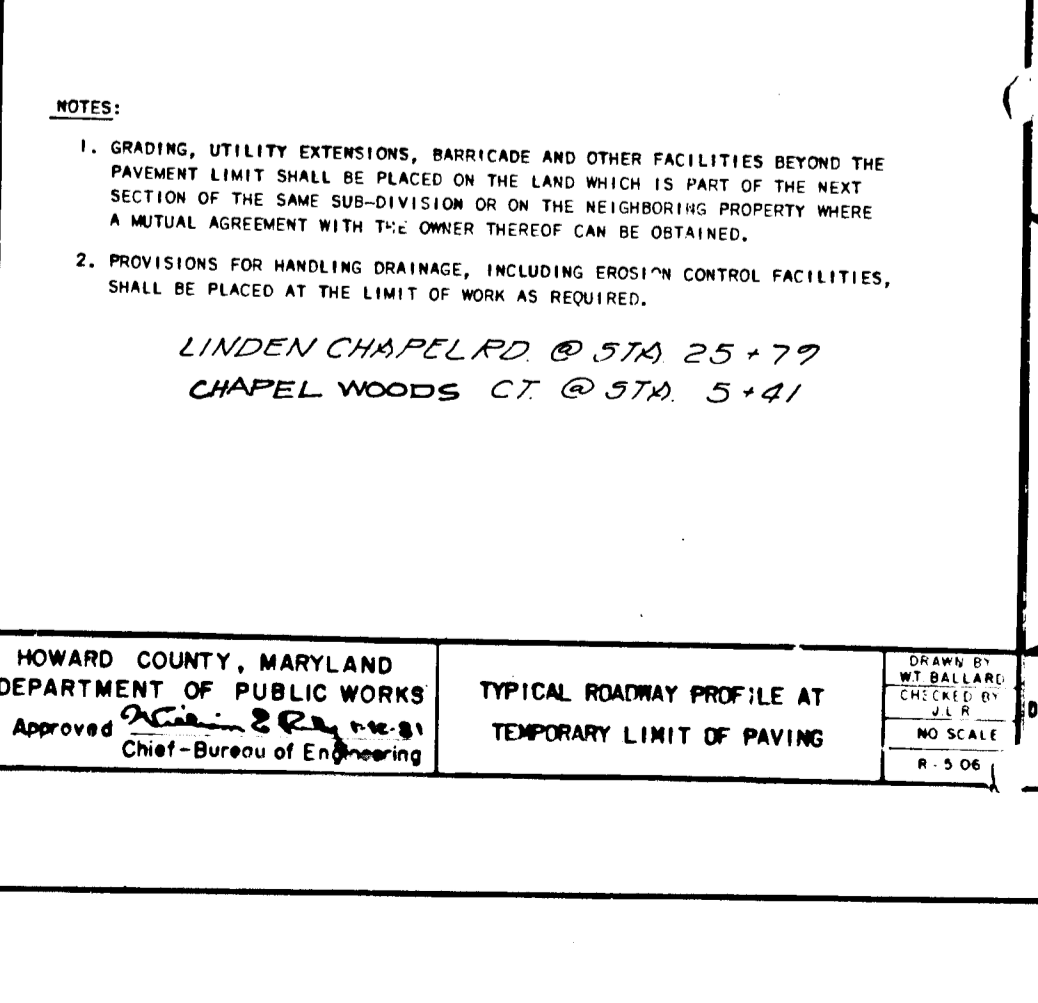
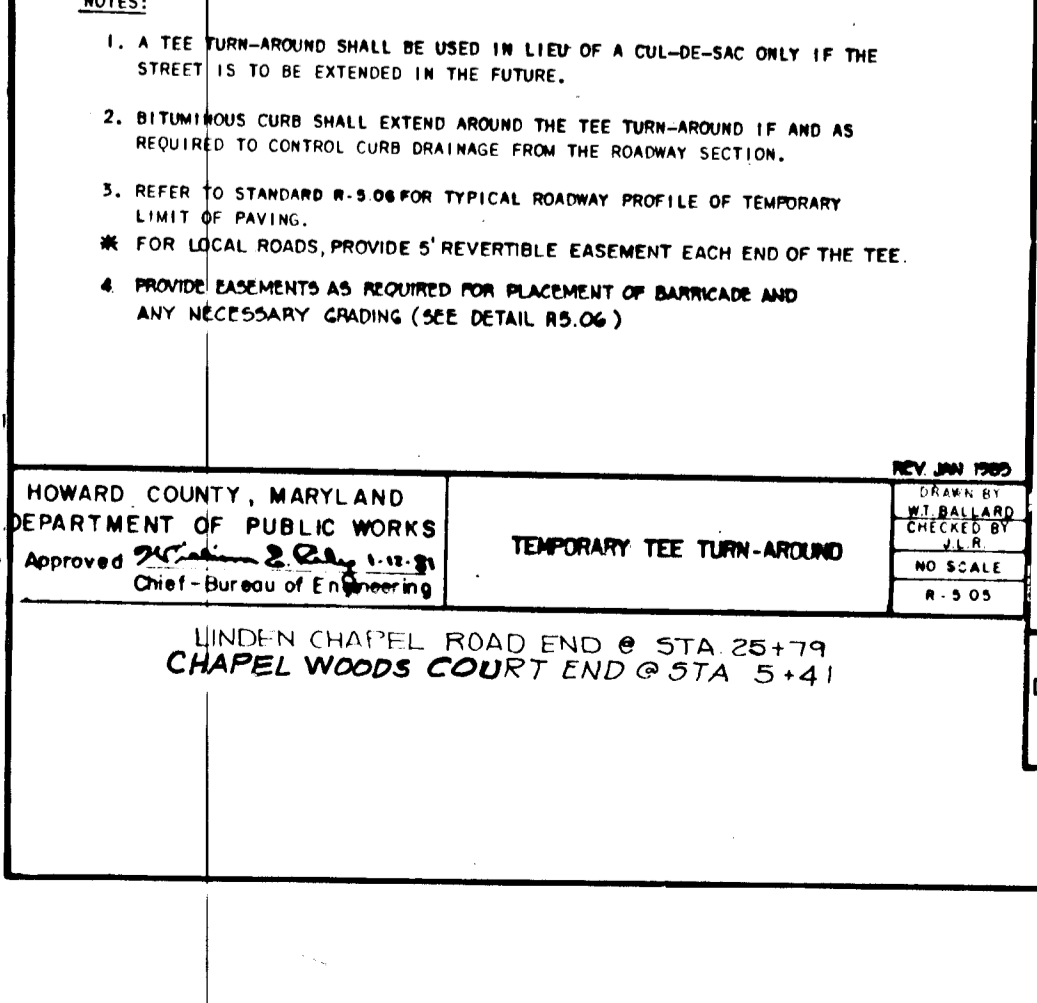
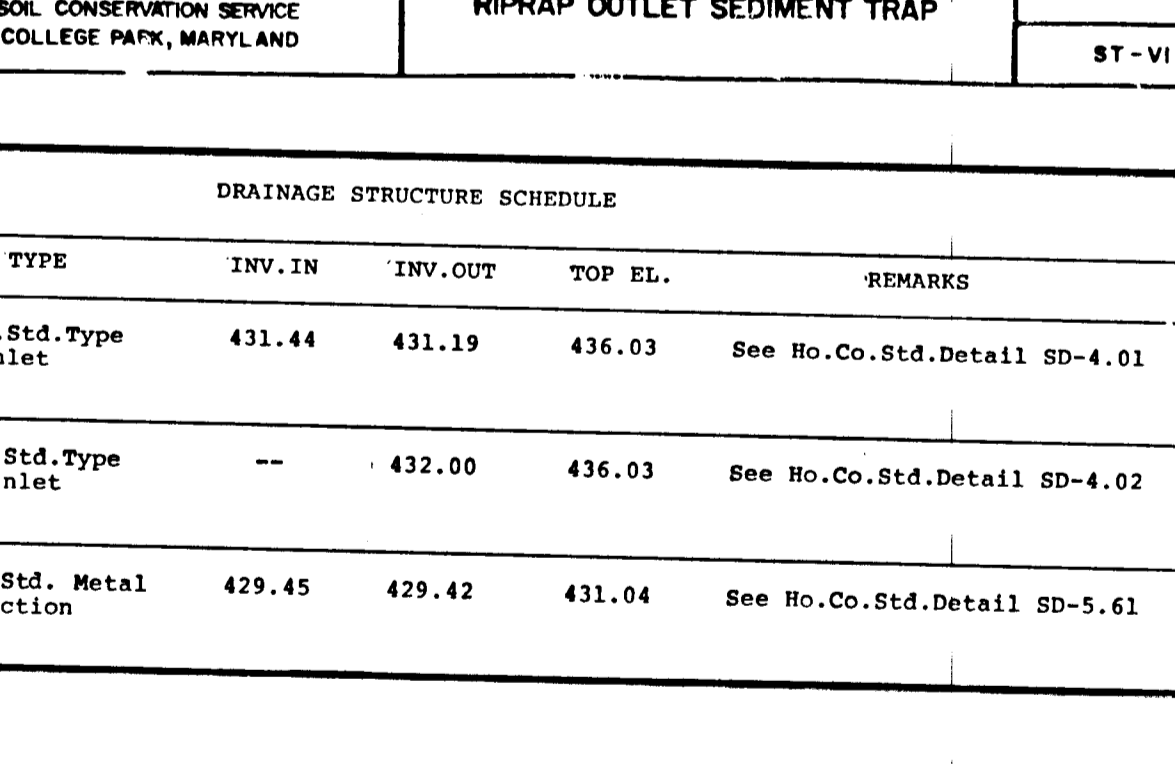
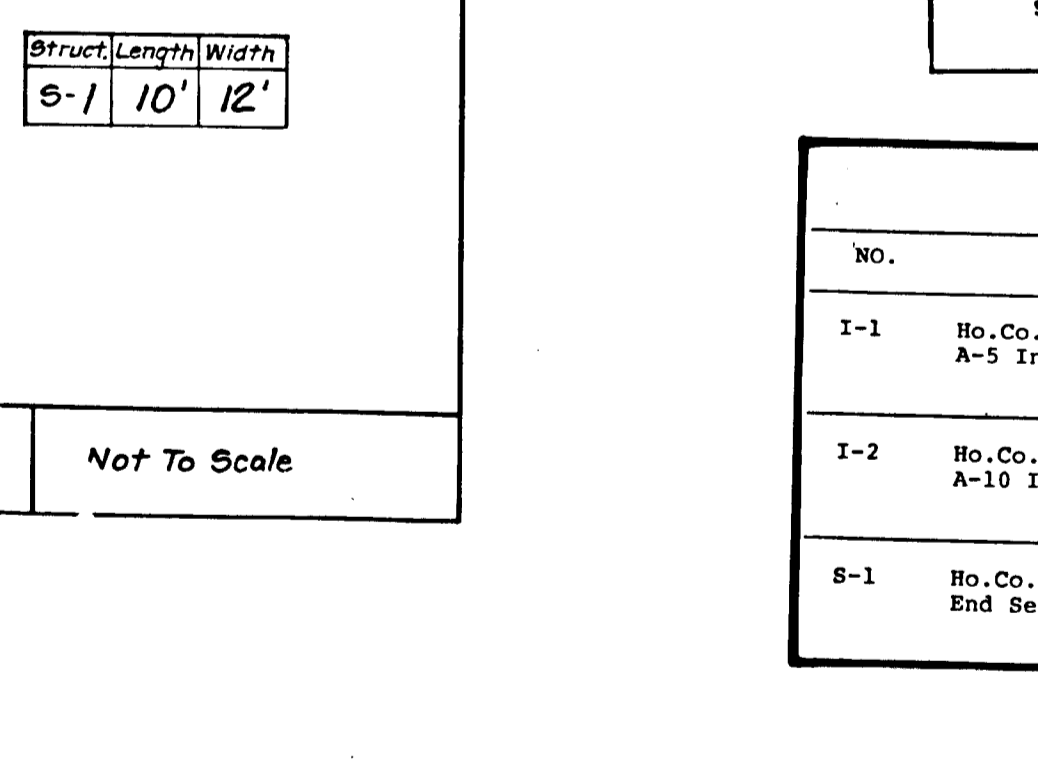
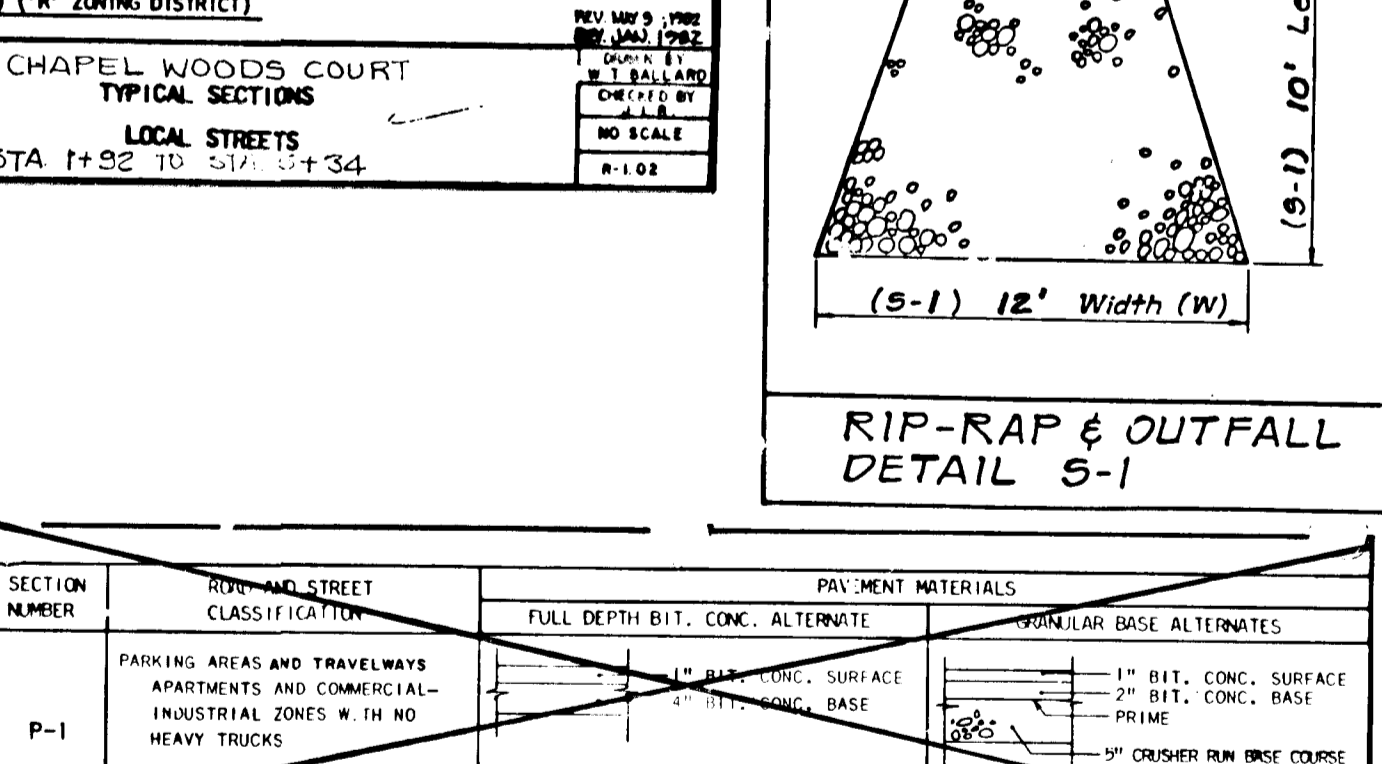
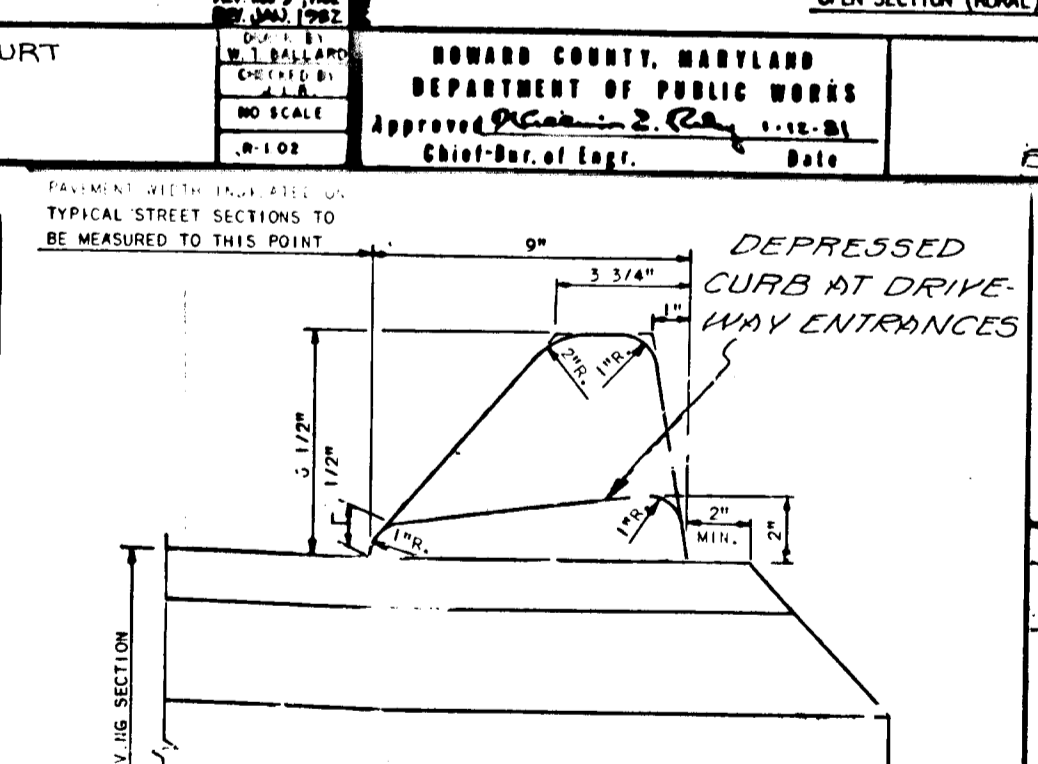
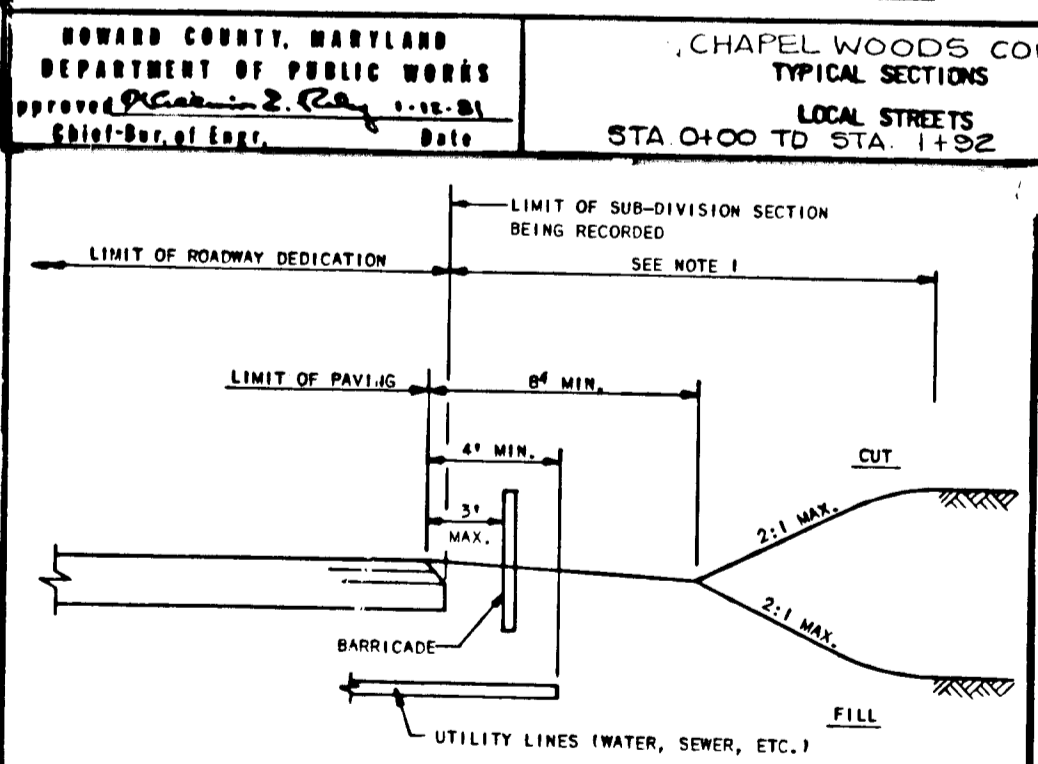
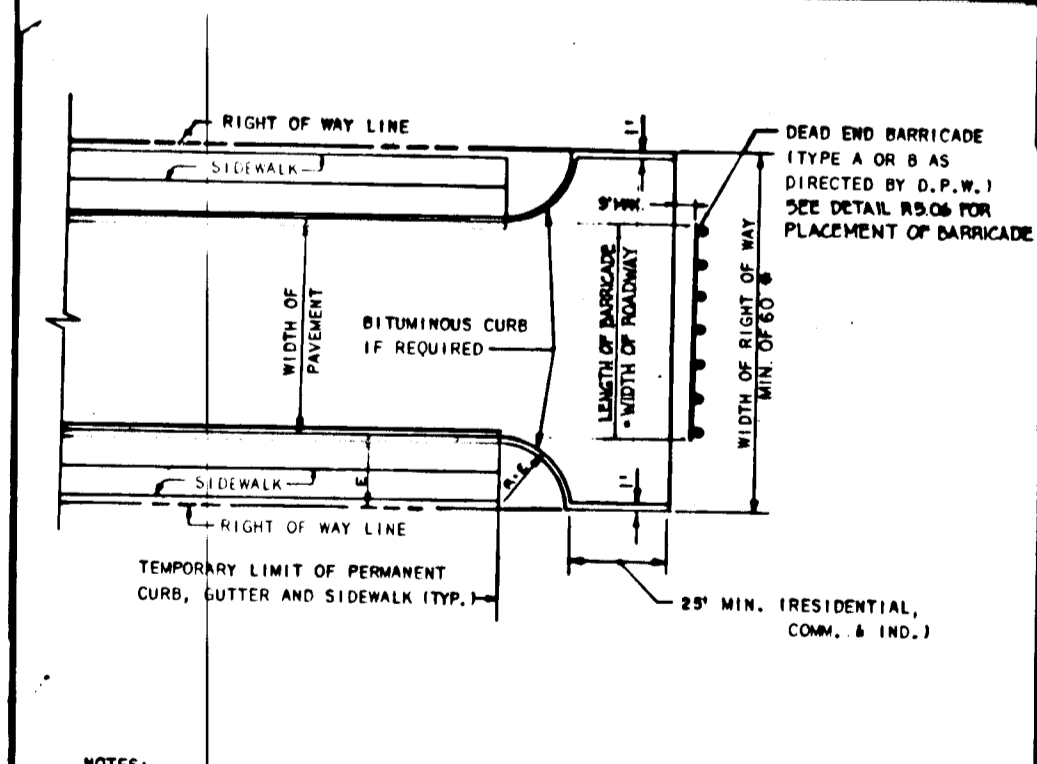
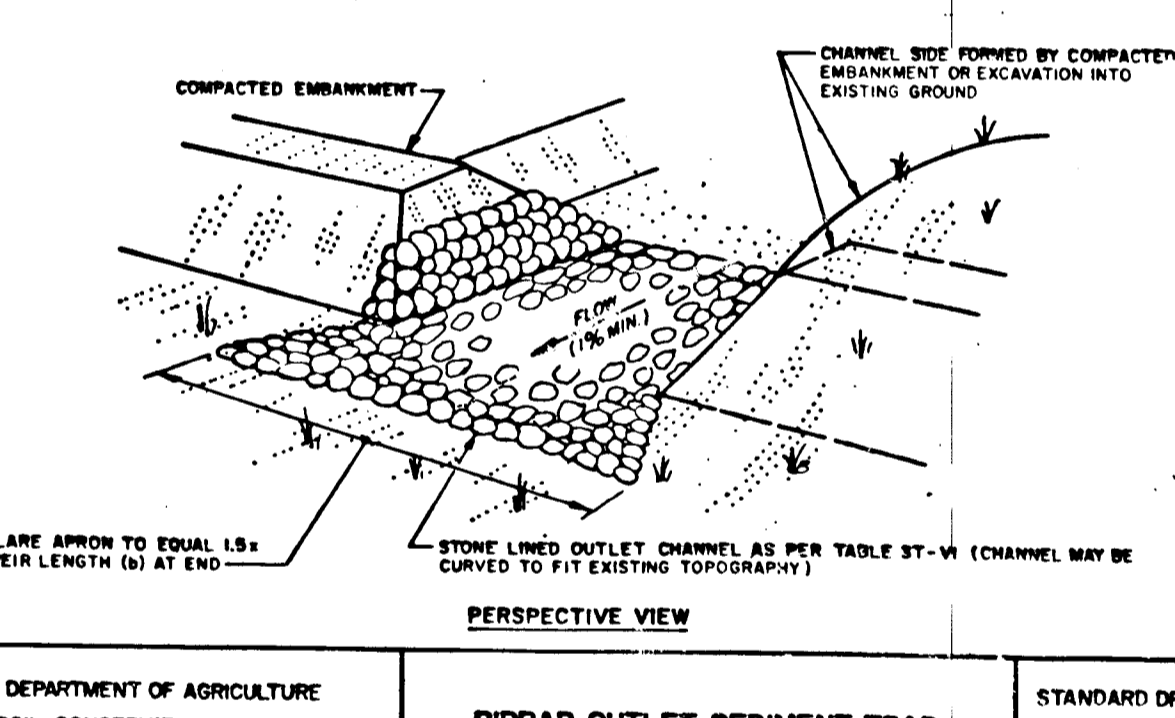
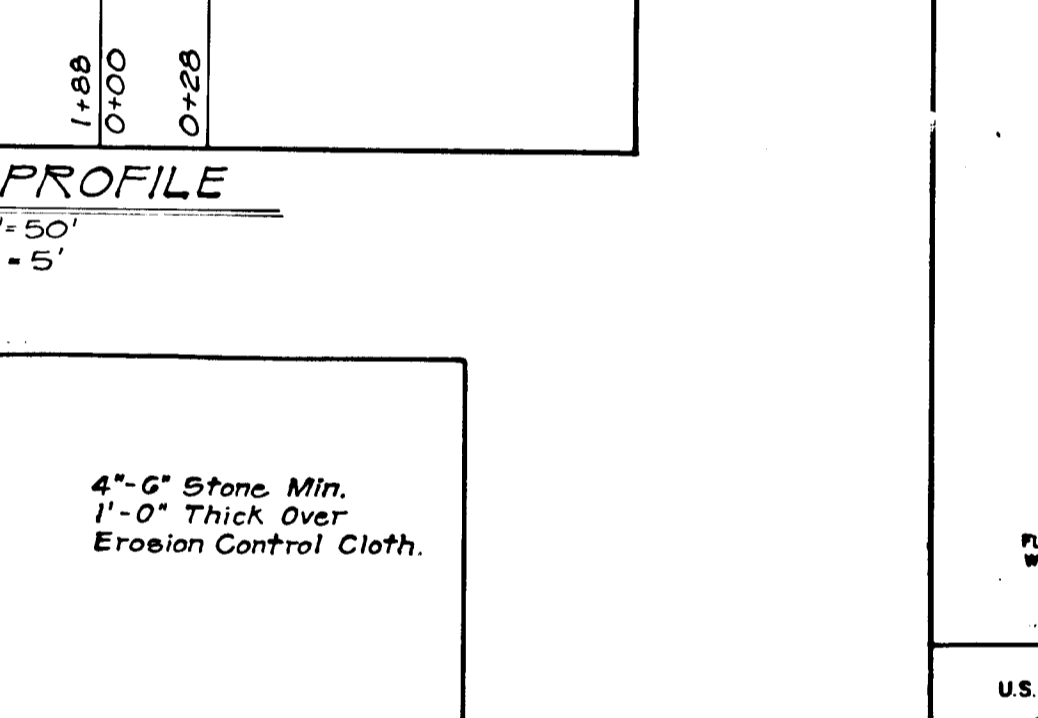
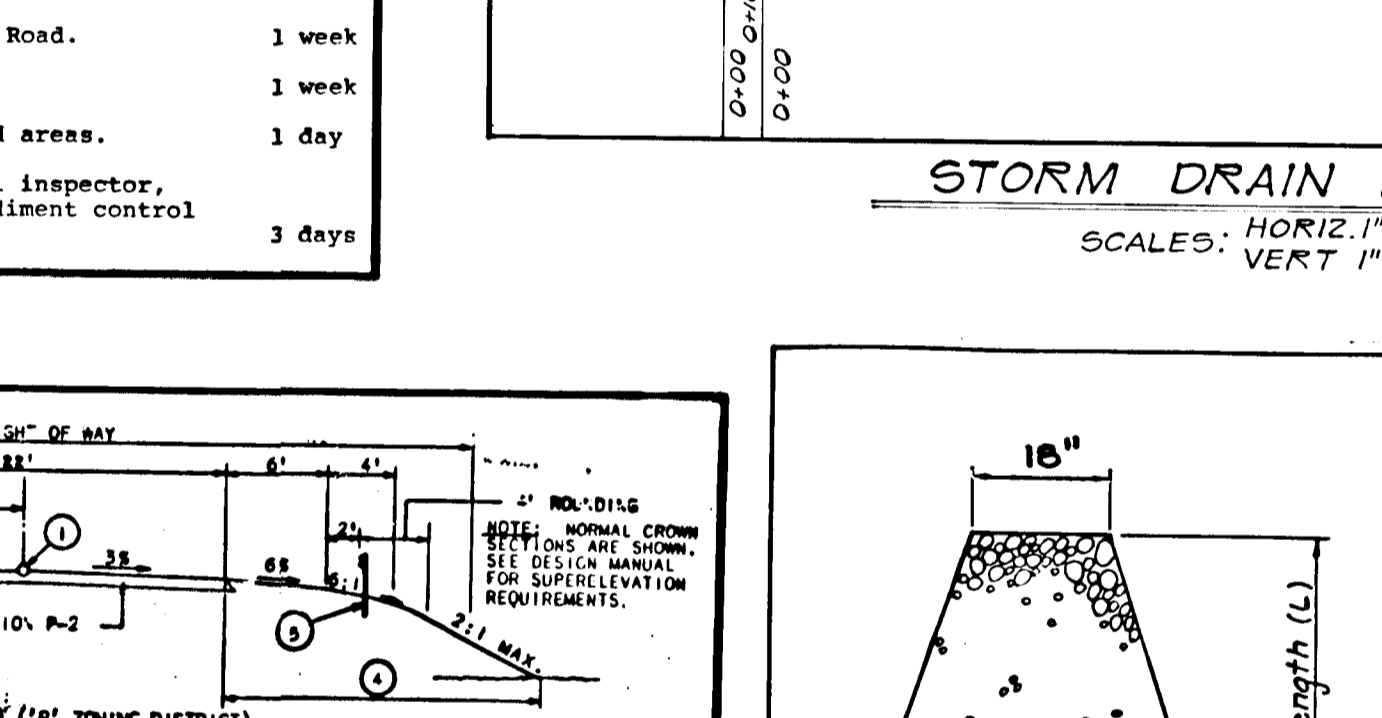
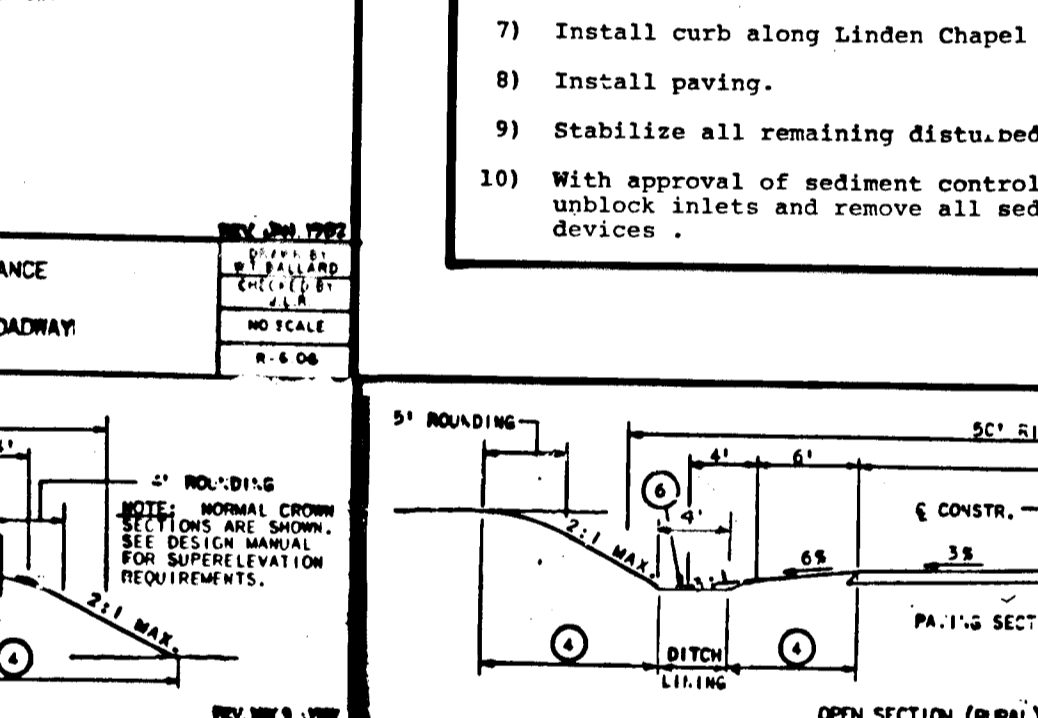
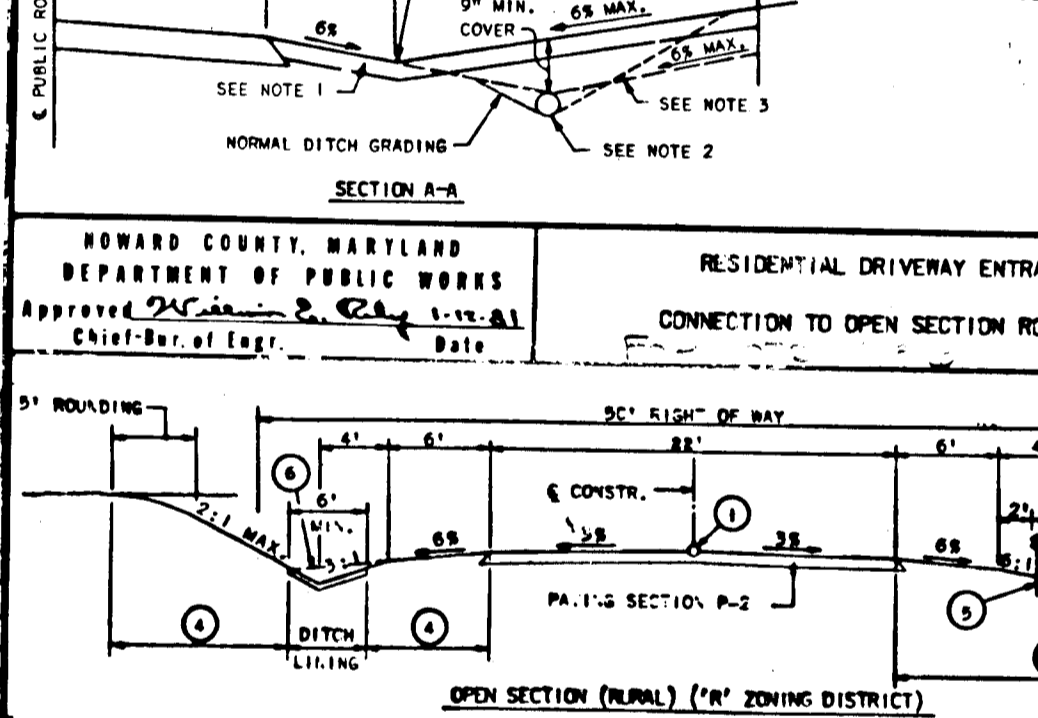
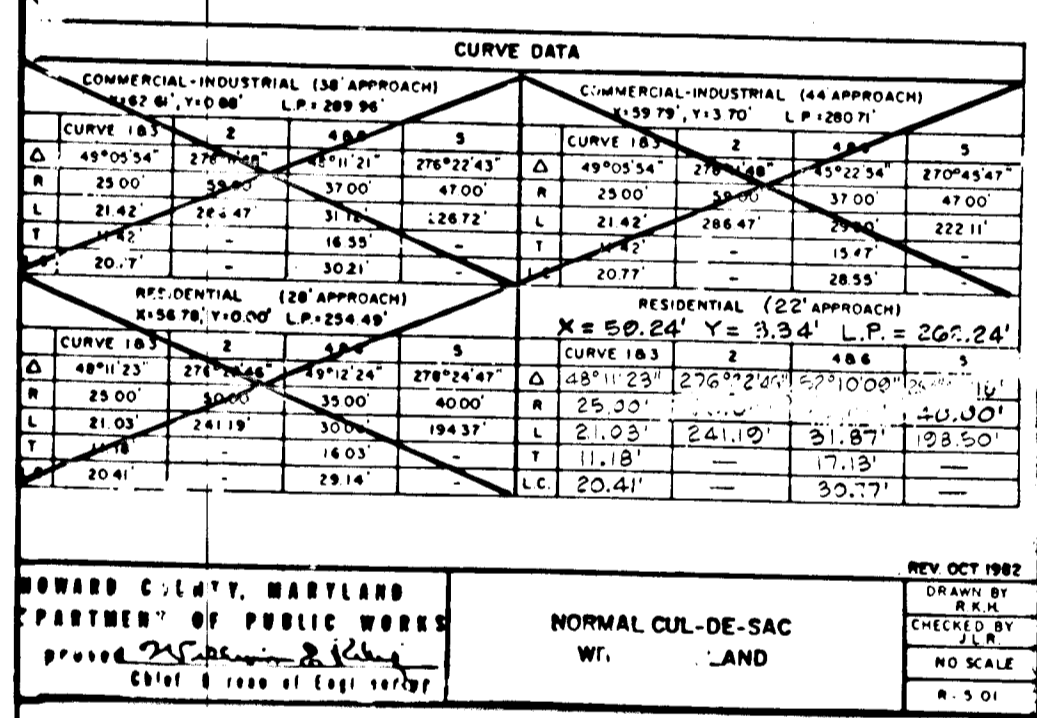
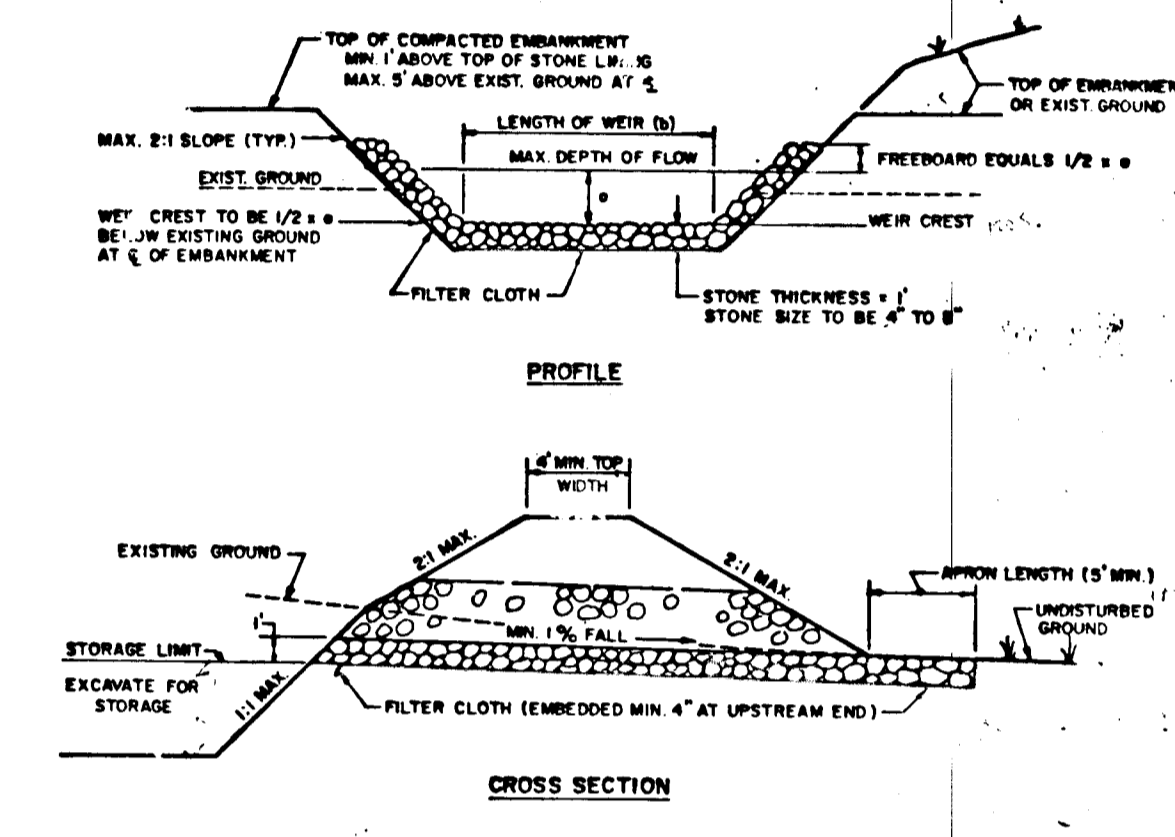
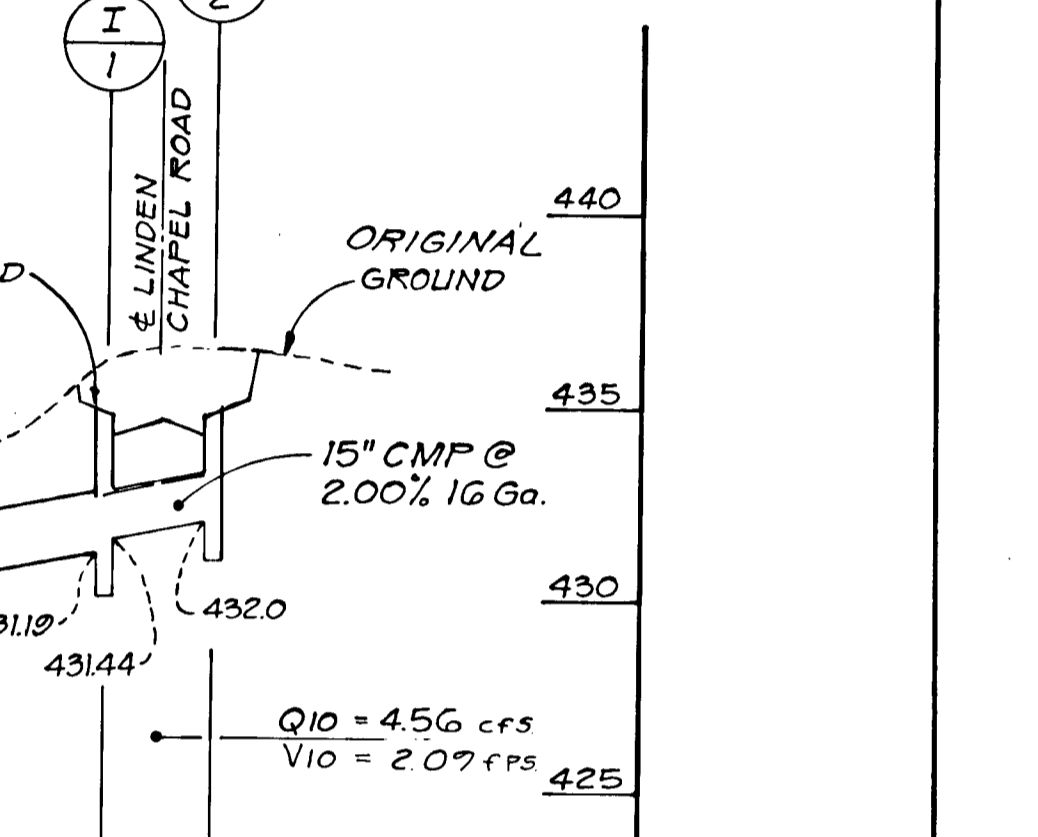
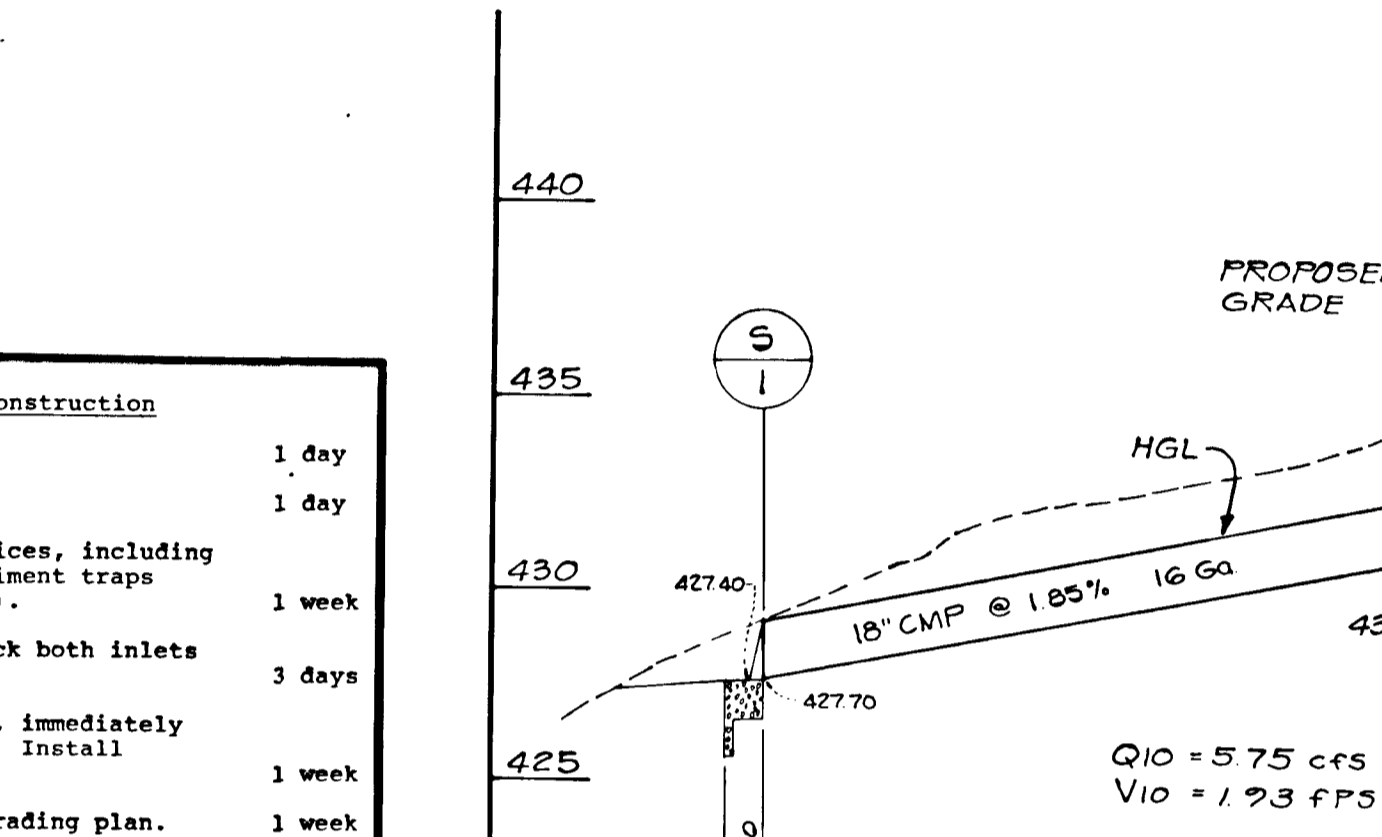
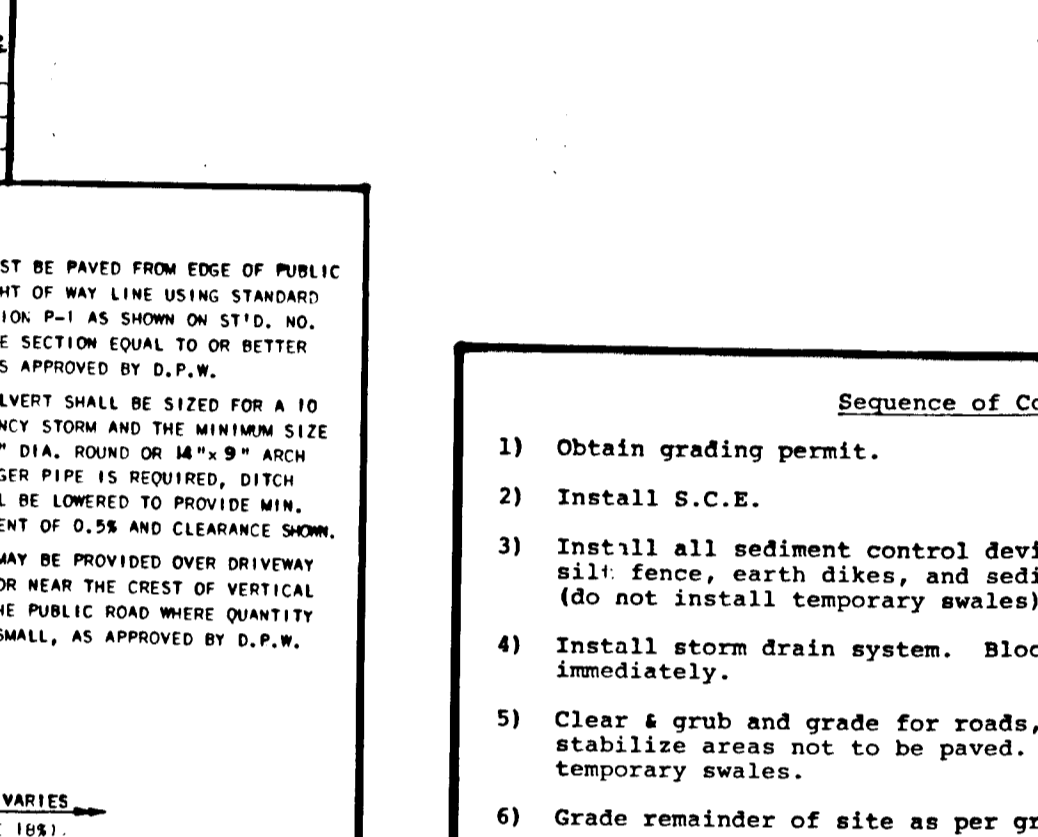
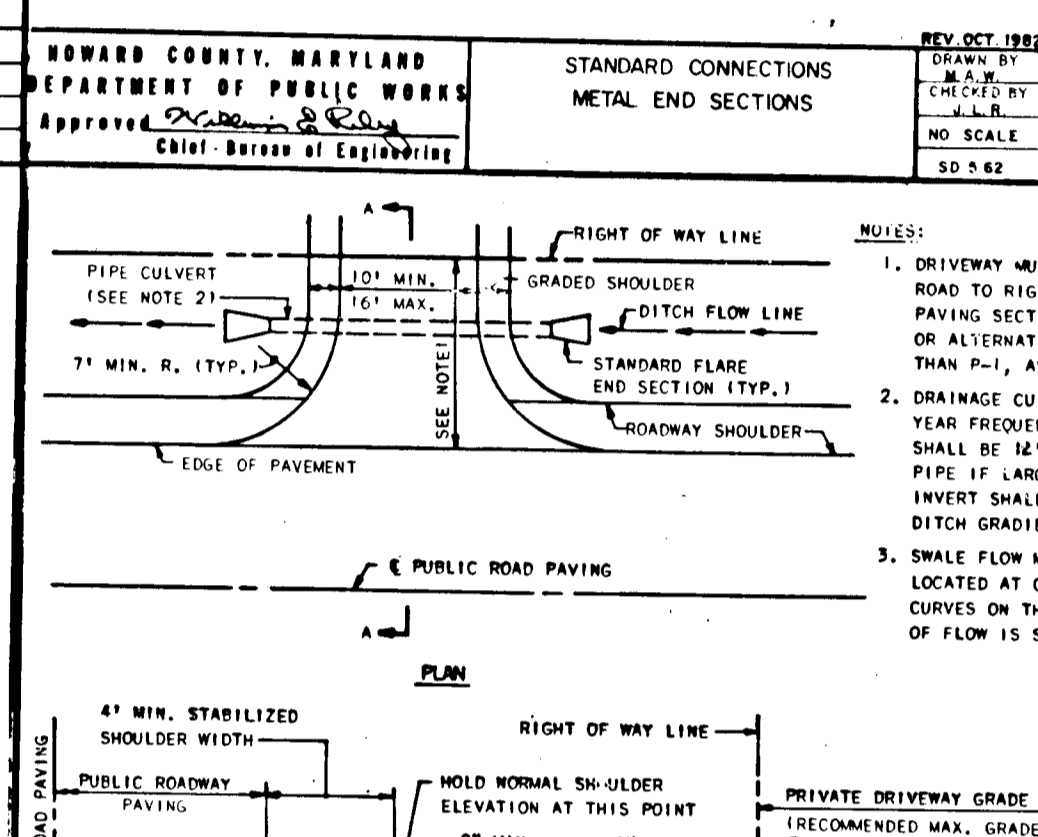
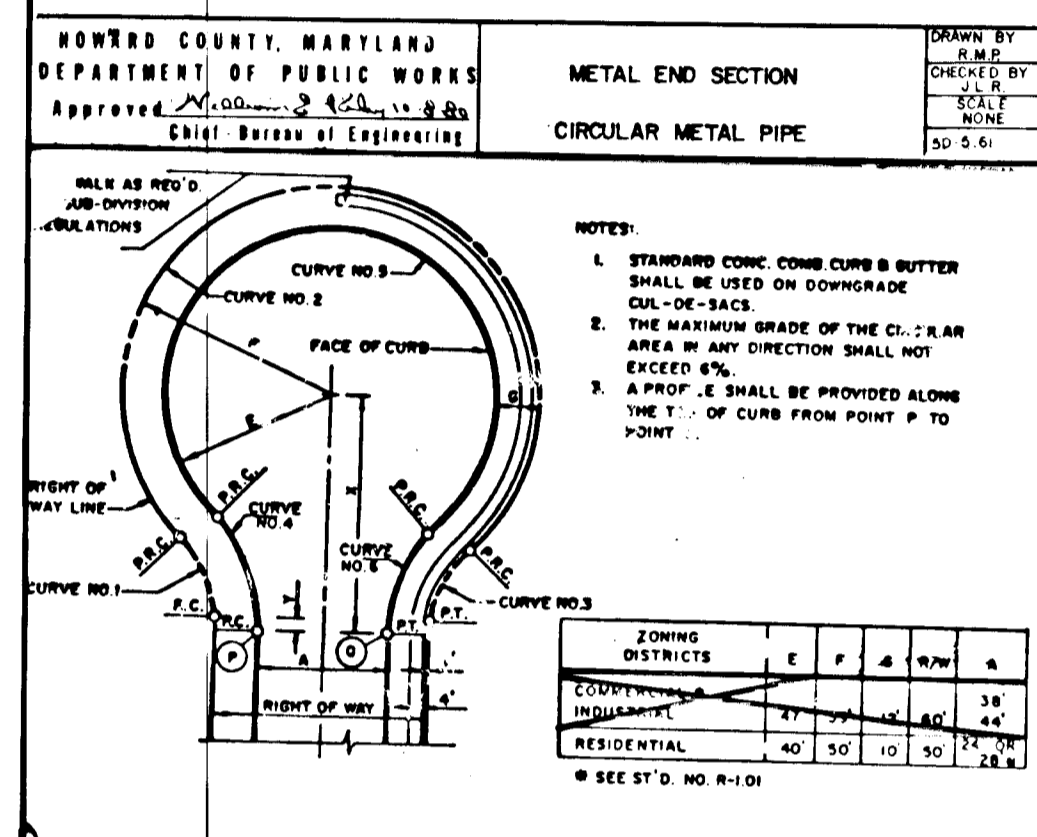
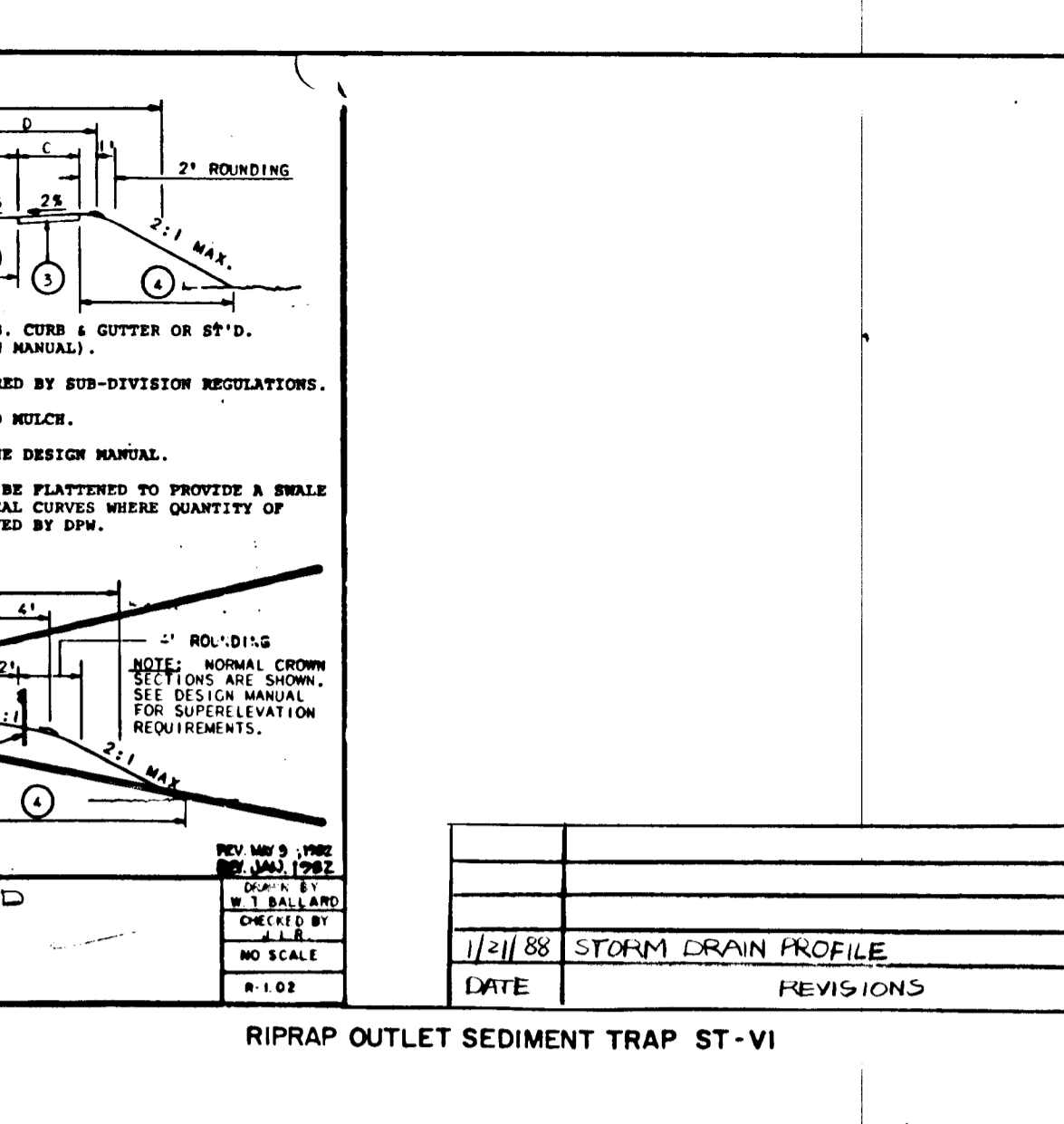
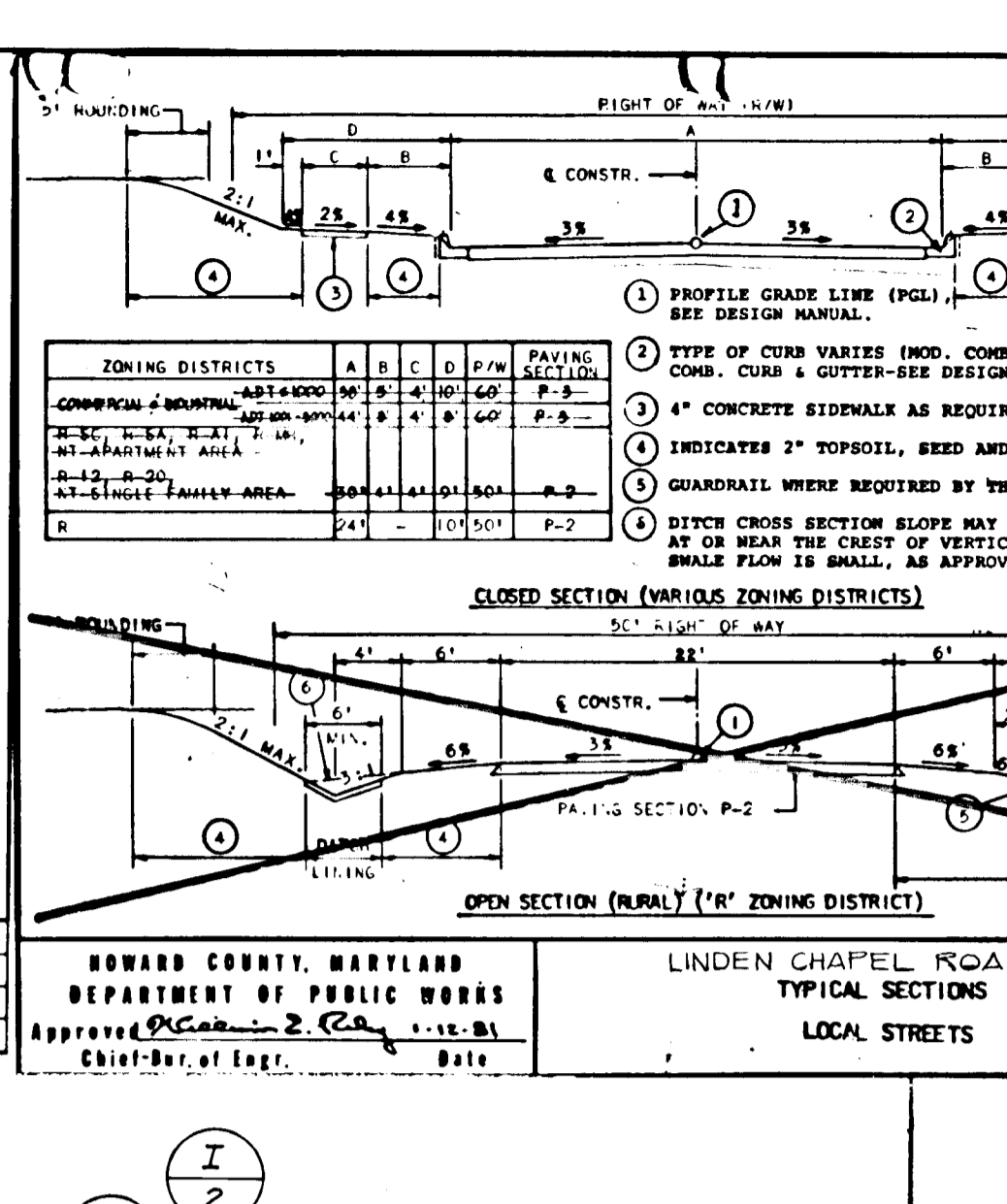
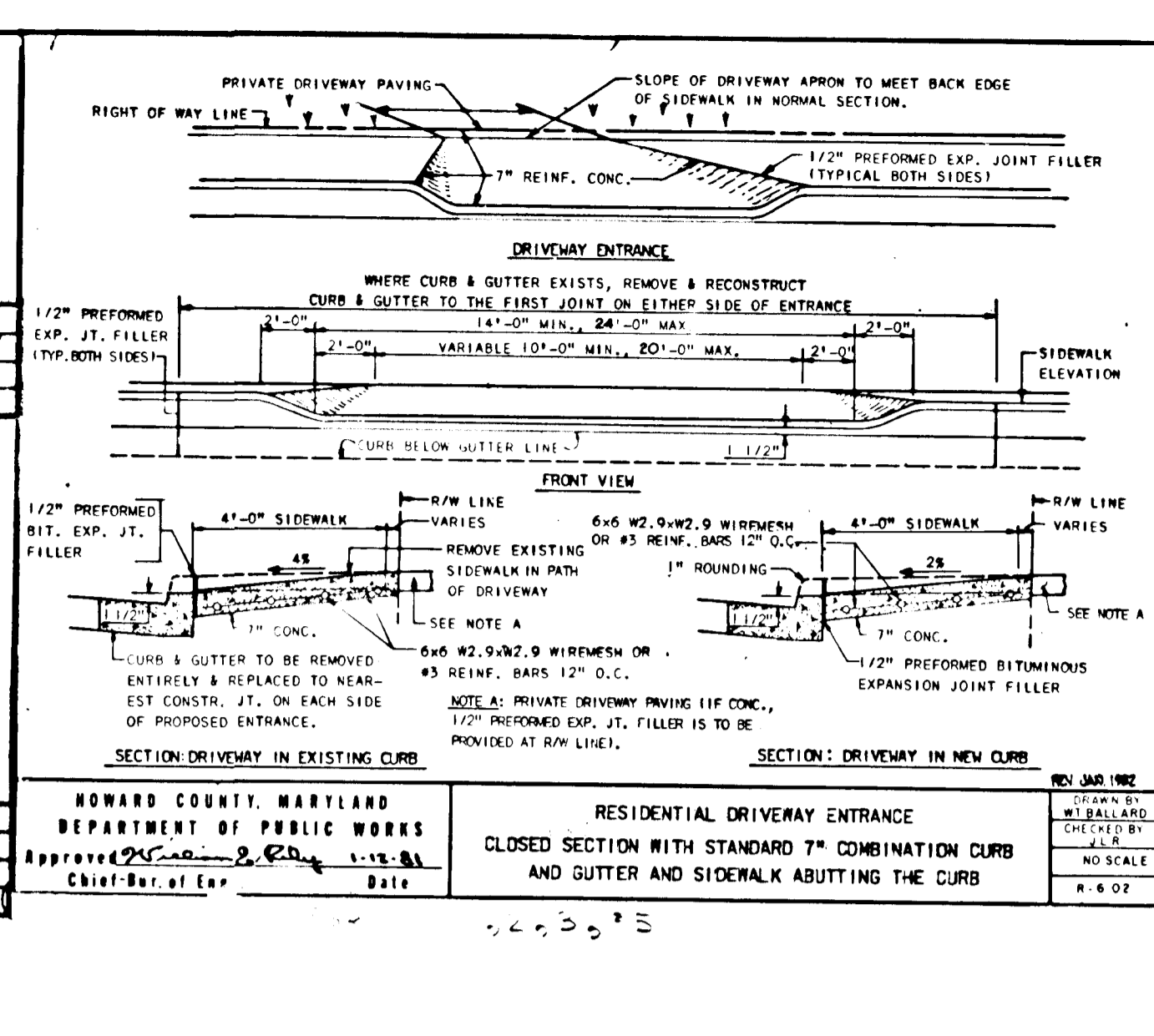
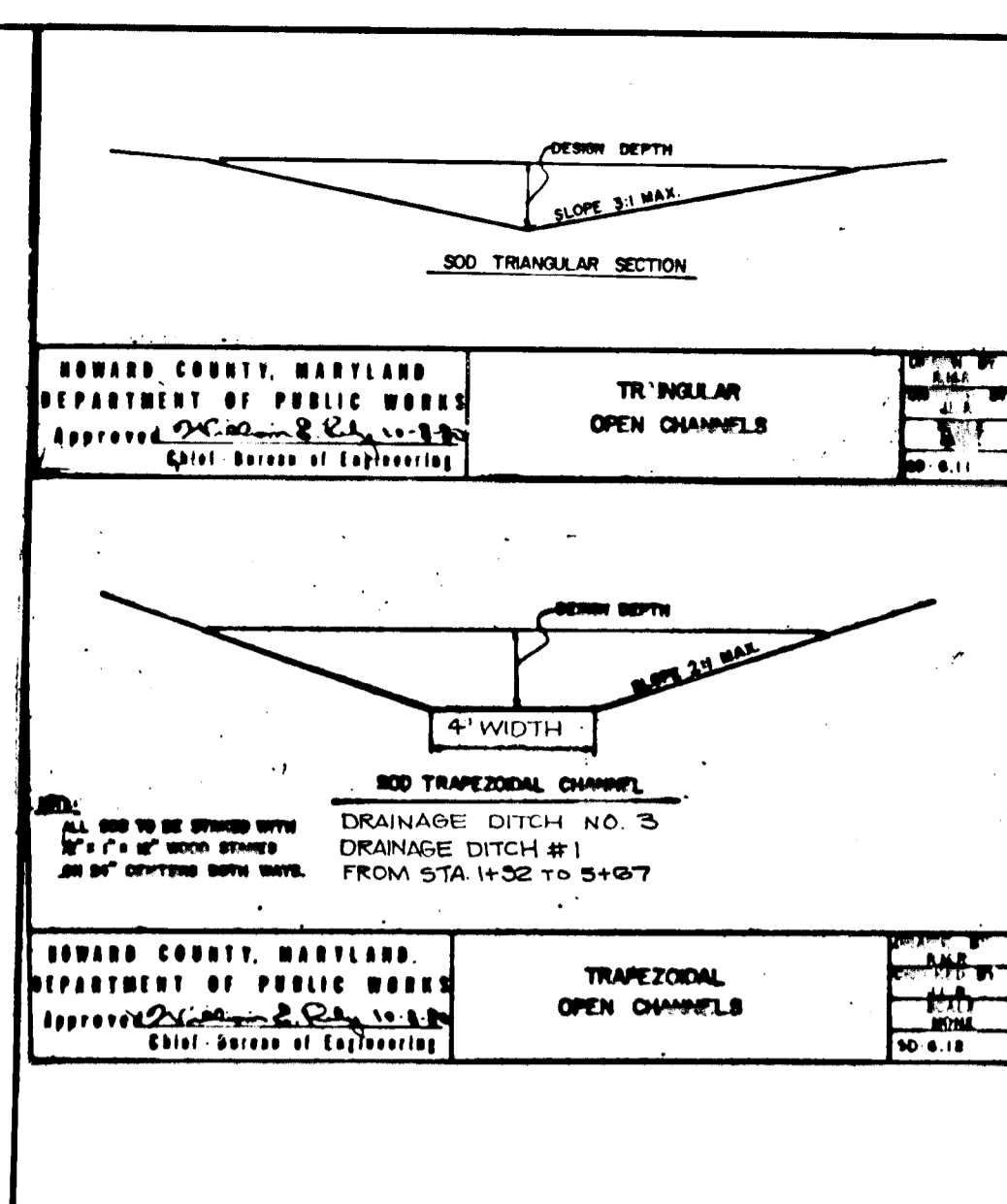
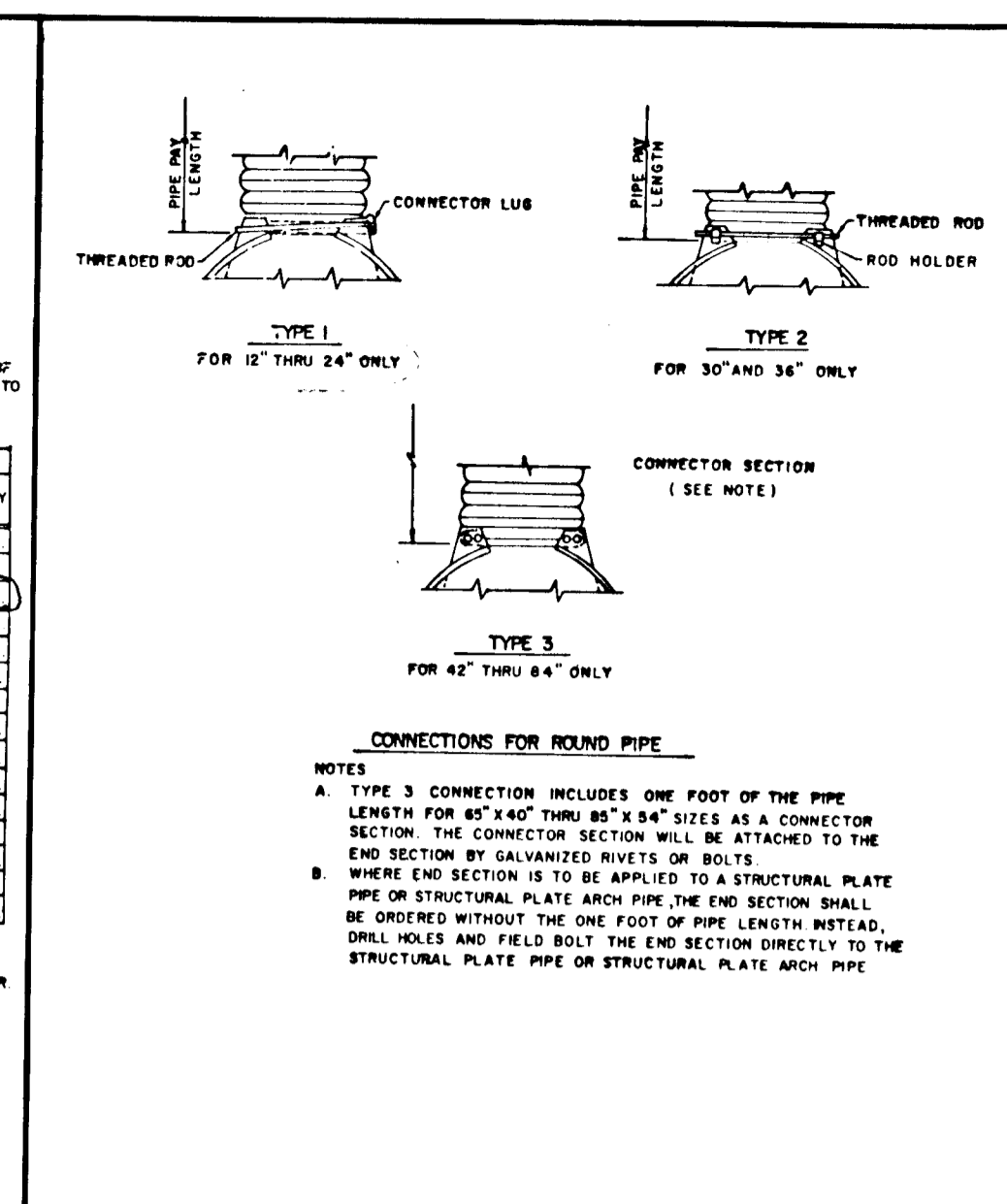
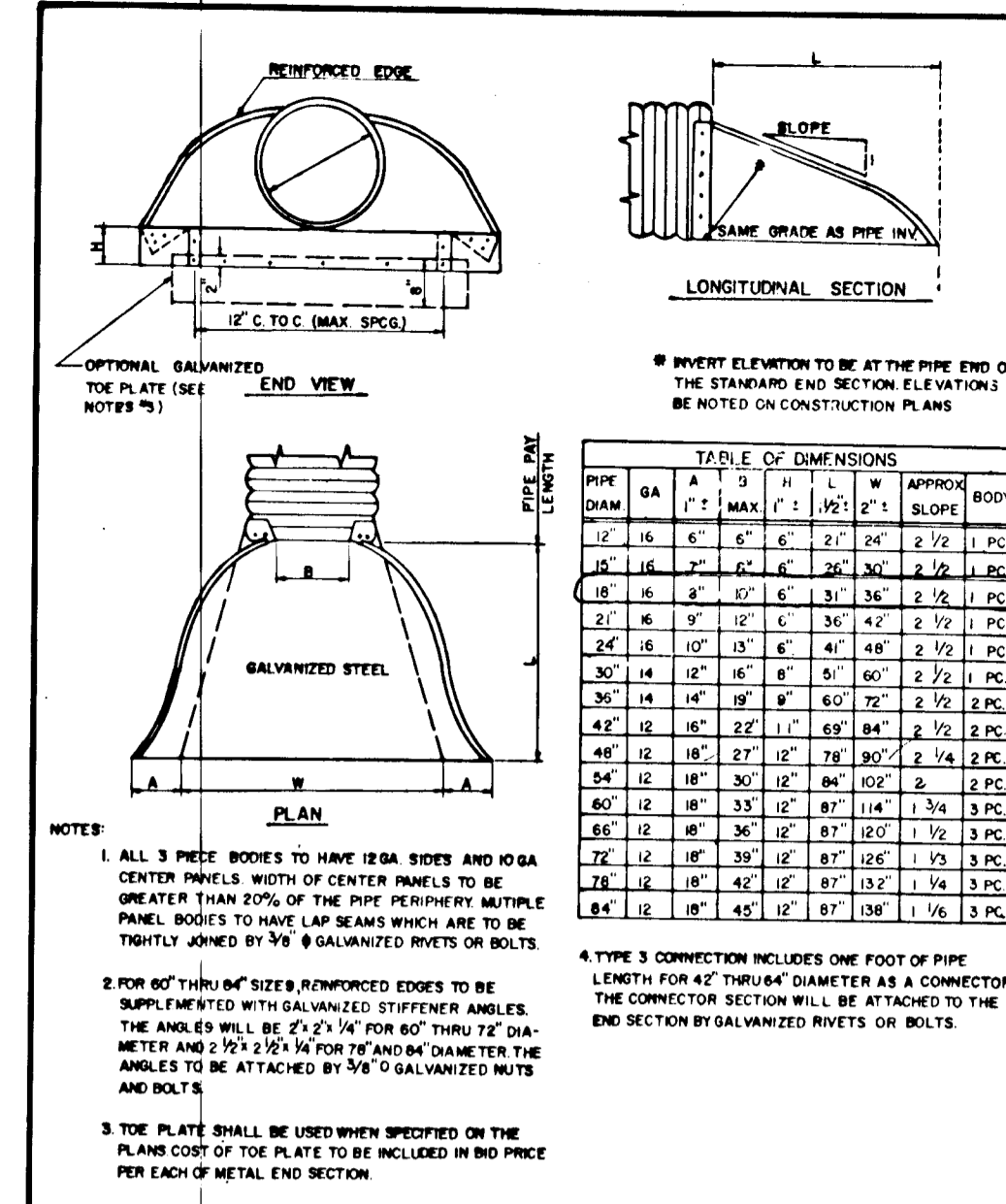
ENGINEERS CERTIFICATE
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 DATE 7/24/87

OWNER'S/DEVELOPER'S CERTIFICATION
 "I/we 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."
 DATE 7/21/87

OWNER/DEVELOPER
 NEWBURN DEVELOPER CORPORATION
 5570 STERRET PLACE, SUITE 201
 COLUMBIA, MARYLAND 21044

SHEET 4 OF 8
 KIDDER CONSULTANTS, INC.
 ENGINEERS & PLANNERS
 DATE 11/20/87
 ROAD GRADING & PROFILES
 JOHN E. C. PATMORF #8978
 JULY, 1987
 1685028





DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS
I-1	Ho. Co. Std. Type A-5 Inlet	431.44	431.19	436.03	See Ho. Co. Std. Detail SD-4.01
I-2	Ho. Co. Std. Type A-10 Inlet	---	432.00	436.03	See Ho. Co. Std. Detail SD-4.02
S-1	Ho. Co. Std. Metal End Section	429.45	429.42	431.04	See Ho. Co. Std. Detail SD-5.61

SHEET 5 OF 8

DETAIL SHEET

for

CHAPEL WOODS

SECTION 2 AREA 2

TAX MAP 29 PARCEL 41

5TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John M. ... 11-16-87

CHIEF, Land Development Division

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James H. ... 10/30/87

CHIEF, Bureau of Engineering

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William E. ... 11-2-87

CHIEF, Bureau of Engineering

KIDDE CONSULTANTS, INC.

ENGINEERS • PLANNERS • SURVEYORS

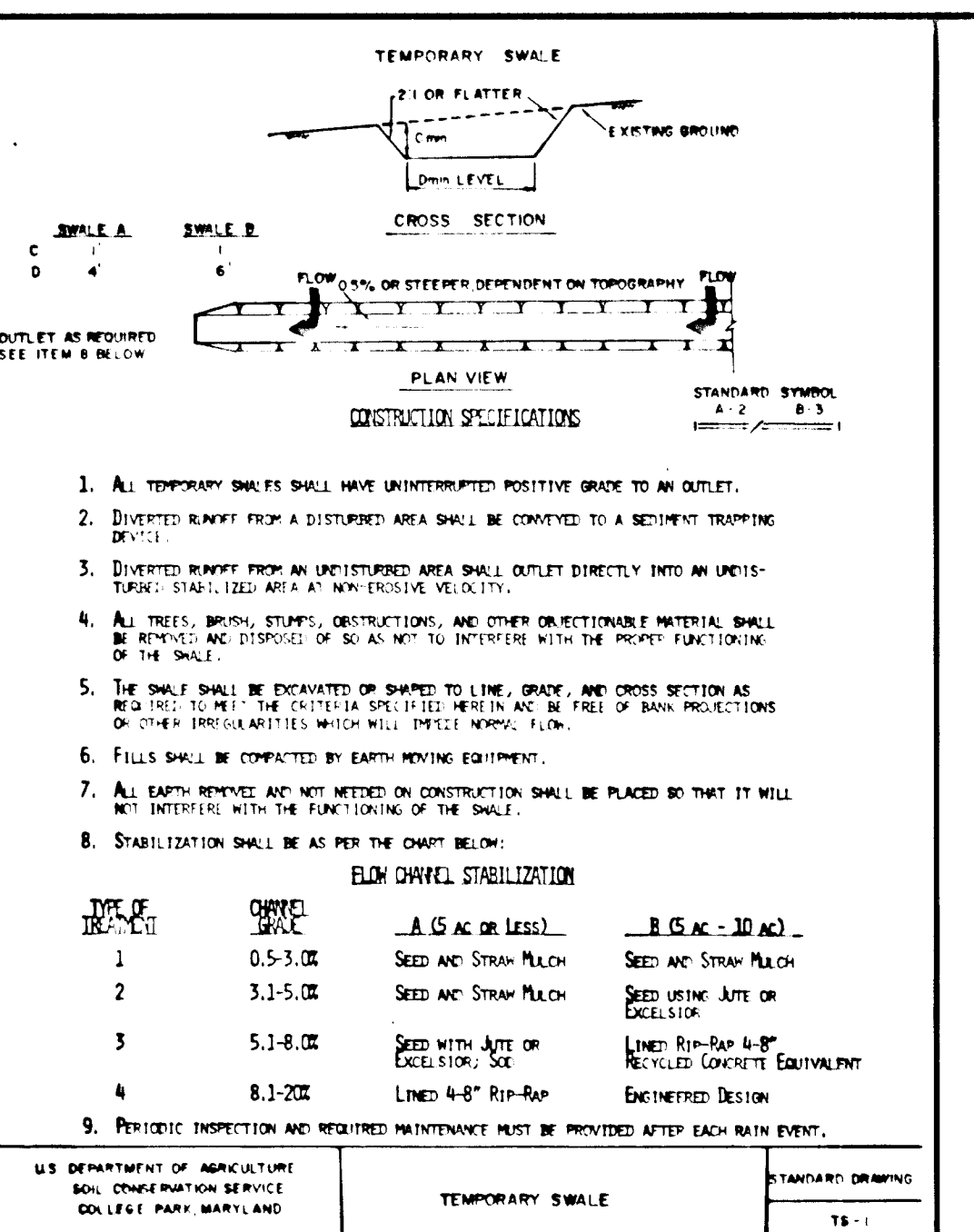
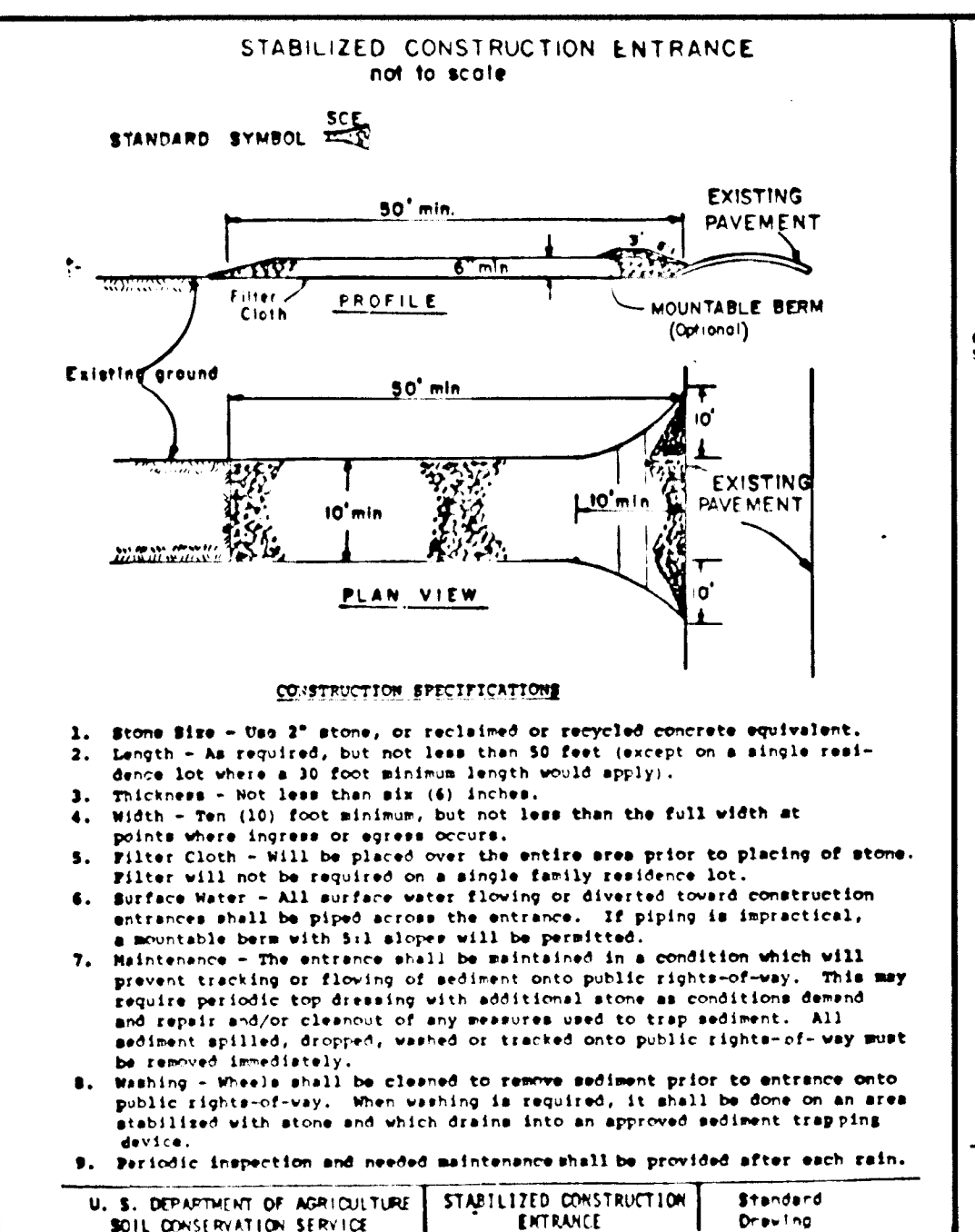
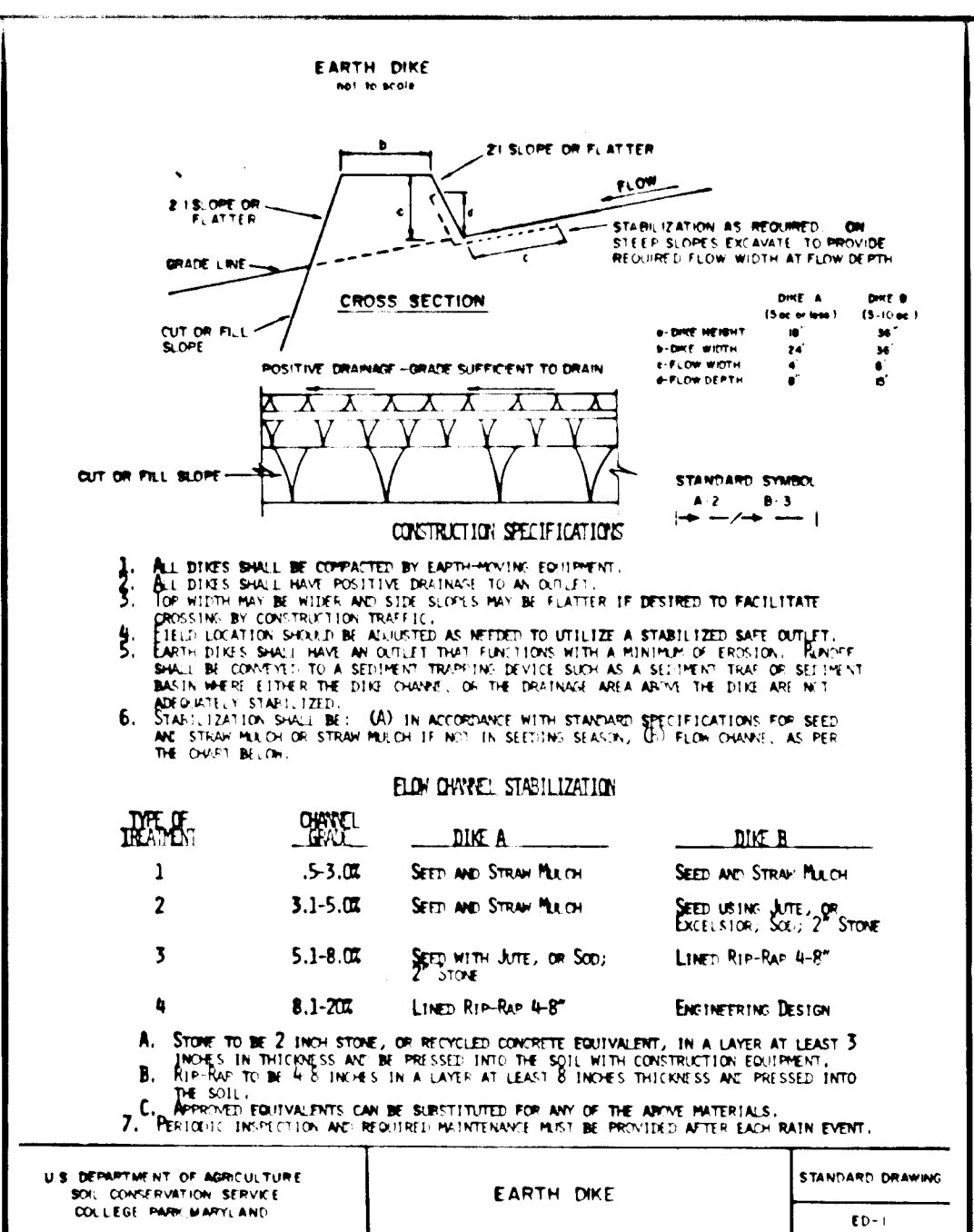
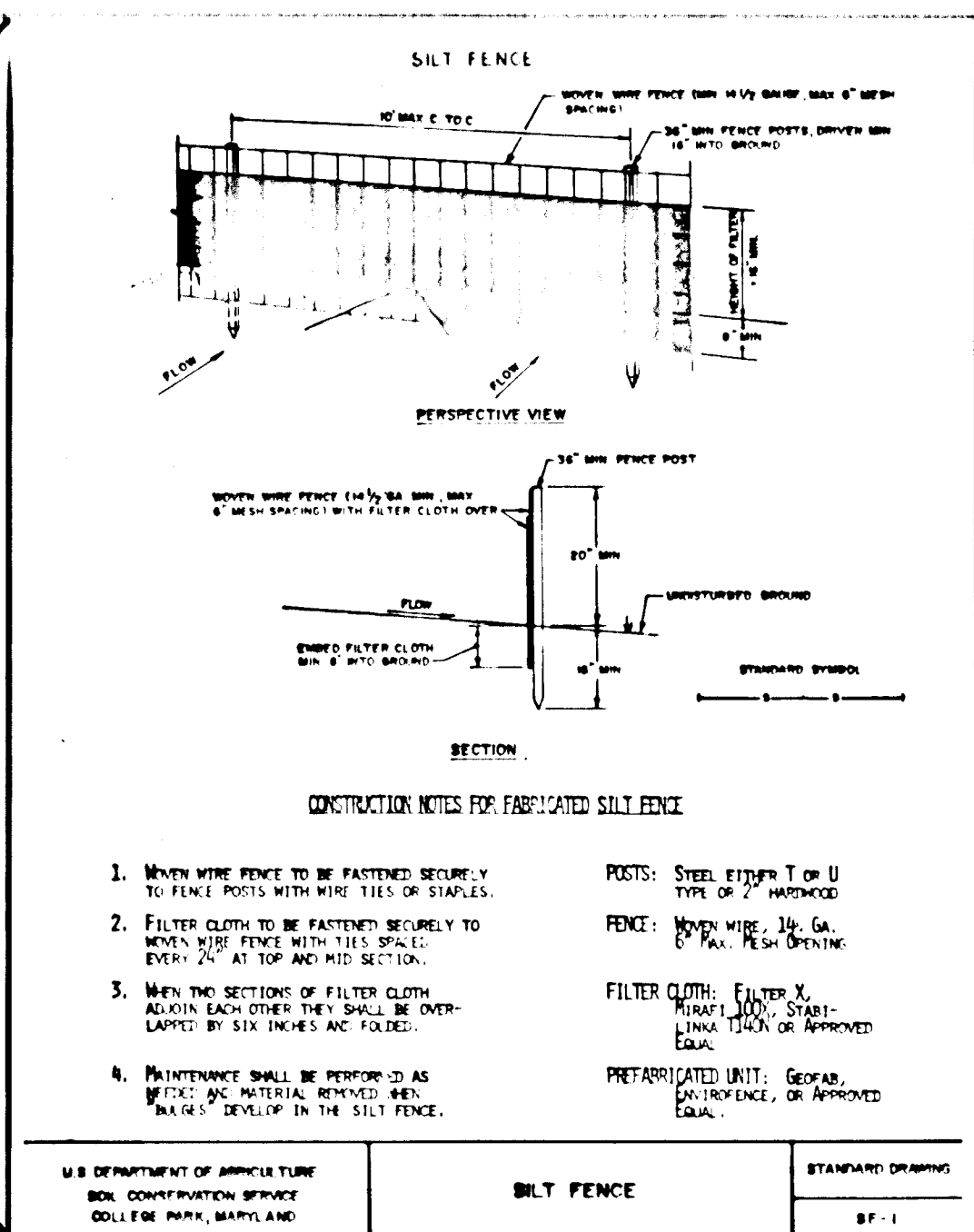
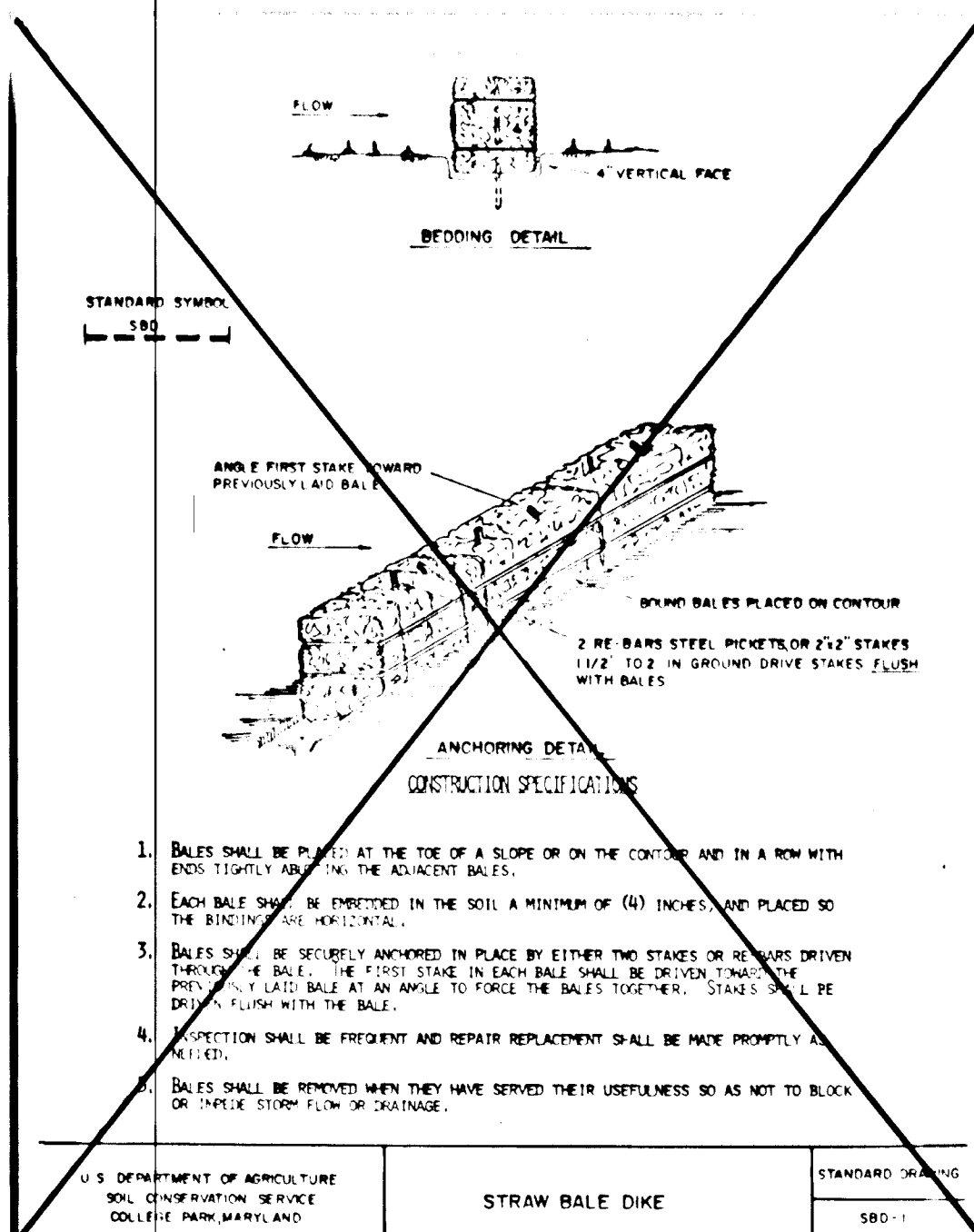
1100 WEST STREET SUITE 100 LAUREL MD 20707

(Wash.) (301) 955-1821 (782) 8086 (Hait.)

JOHN E. PATMORE # 6576

DATE: JULY, 1987 SCALE

F-89-38



PERMANENT SEEDING NOTES

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

Seeding Preparation: Loosen upper three inches of soil by raking, disking 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. 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 Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 15 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 mod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 14 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.

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

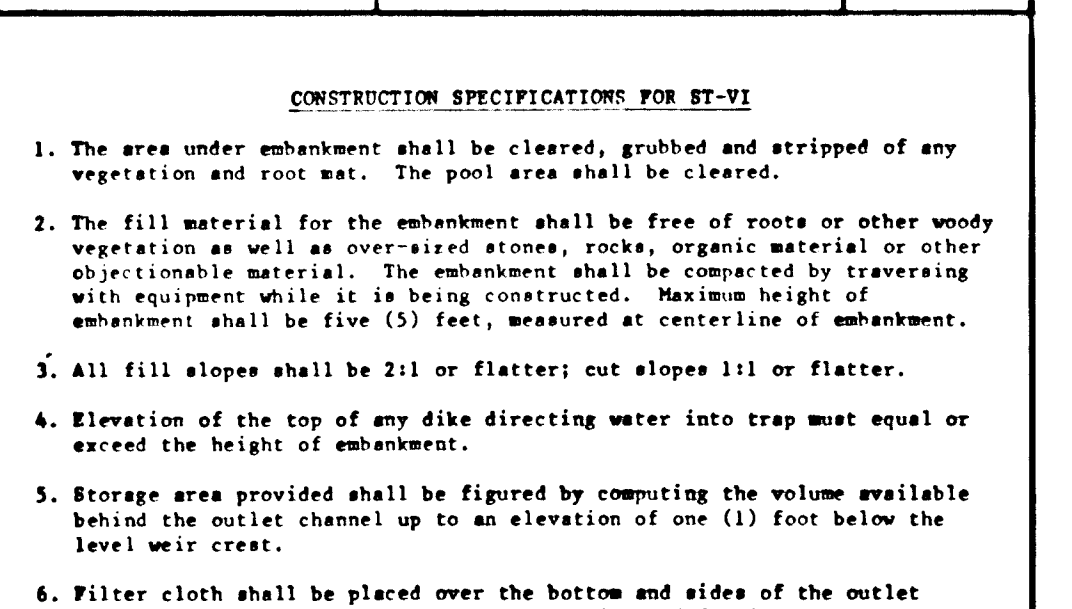
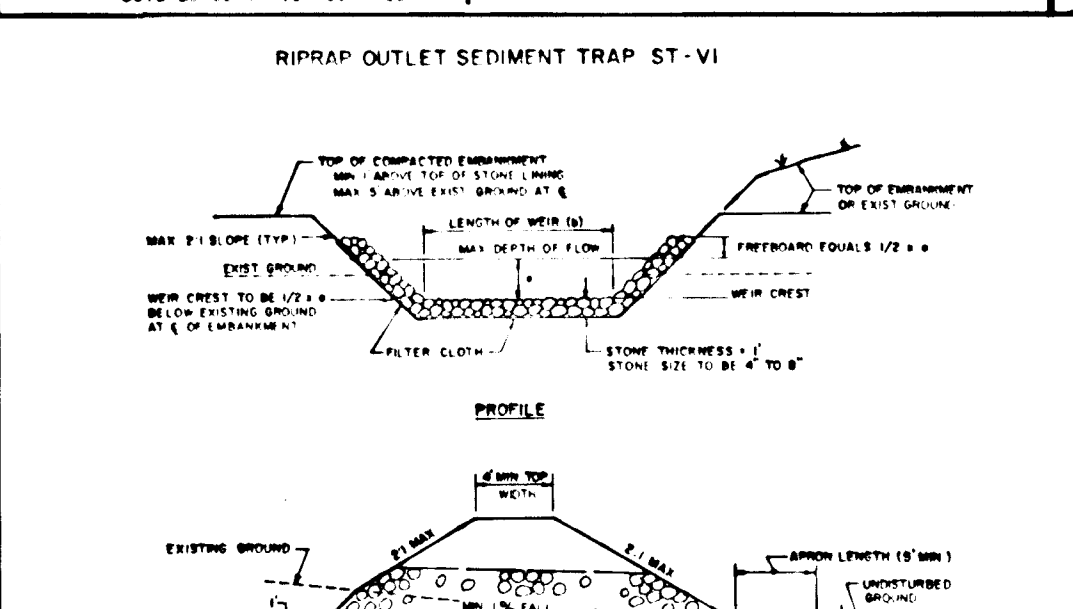
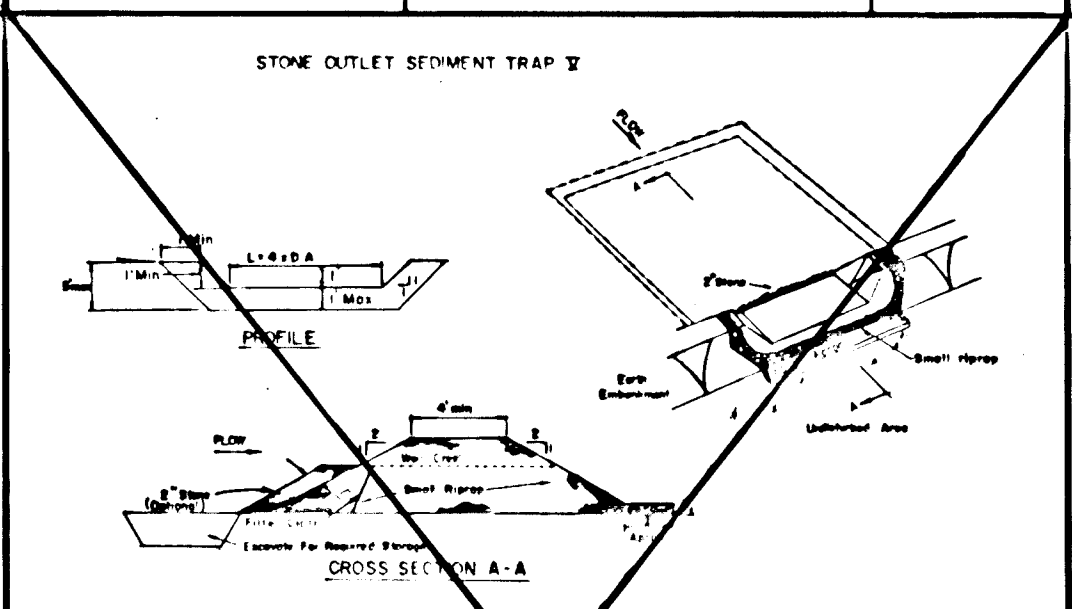
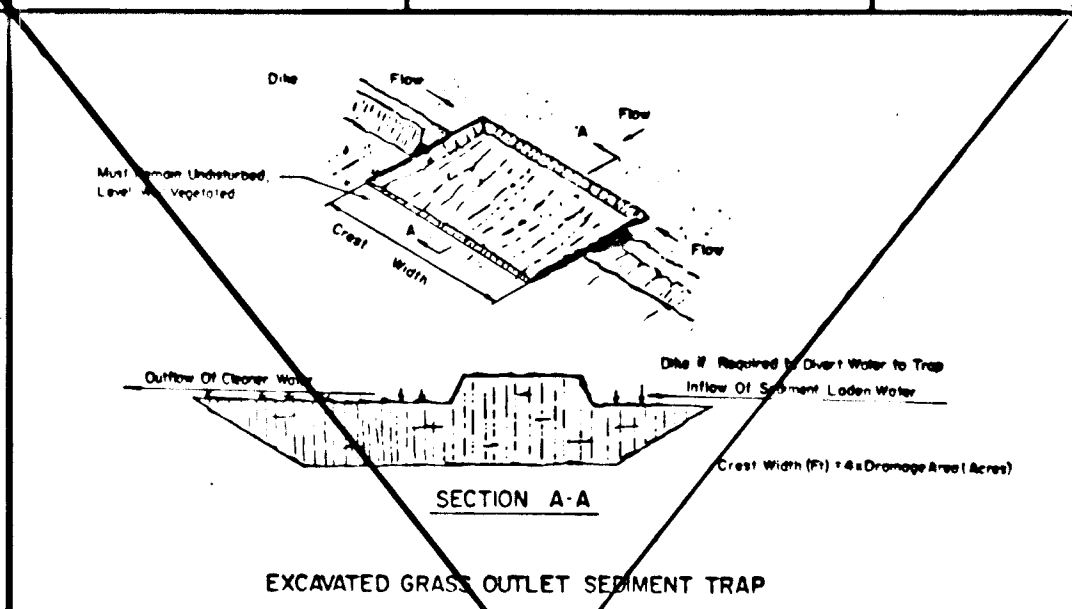
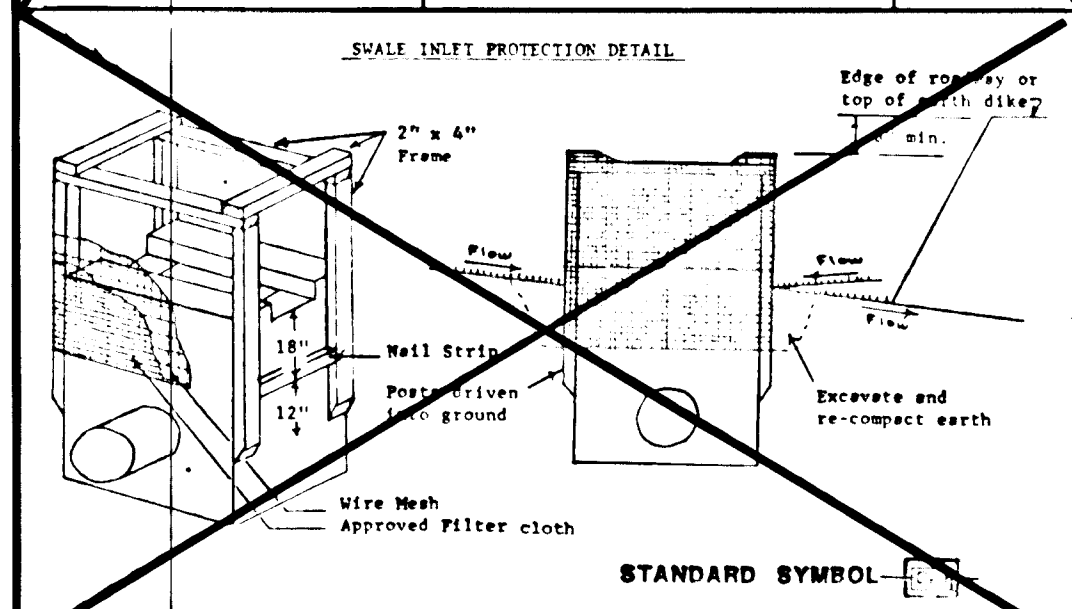
Seeding Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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 24 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 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 seed.

Mulching: Apply 14 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 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.



SEEDING CONTROL NOTES

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (992-7437)

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 their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

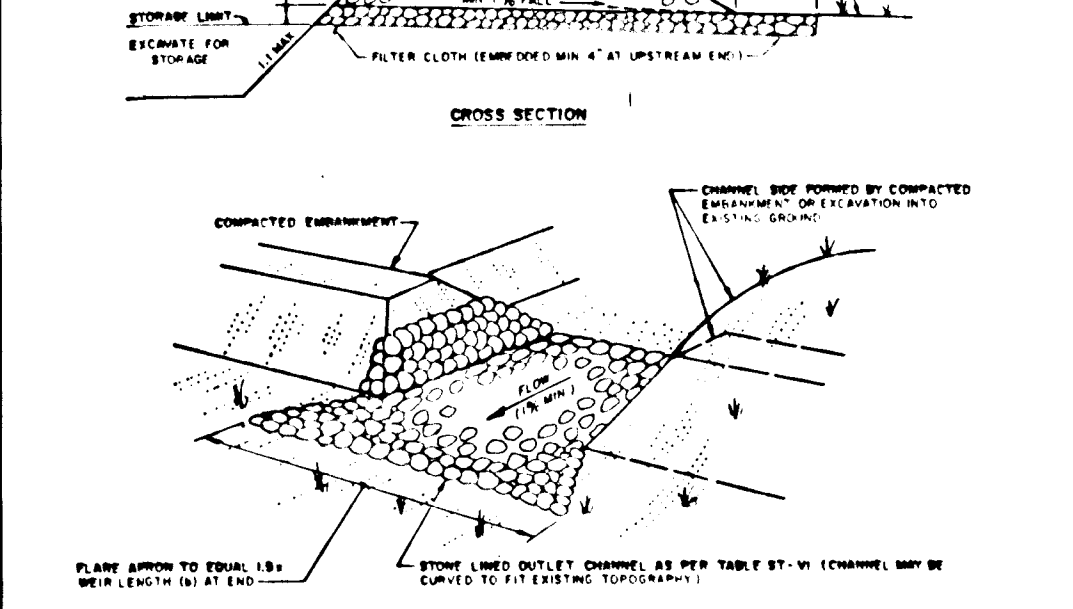
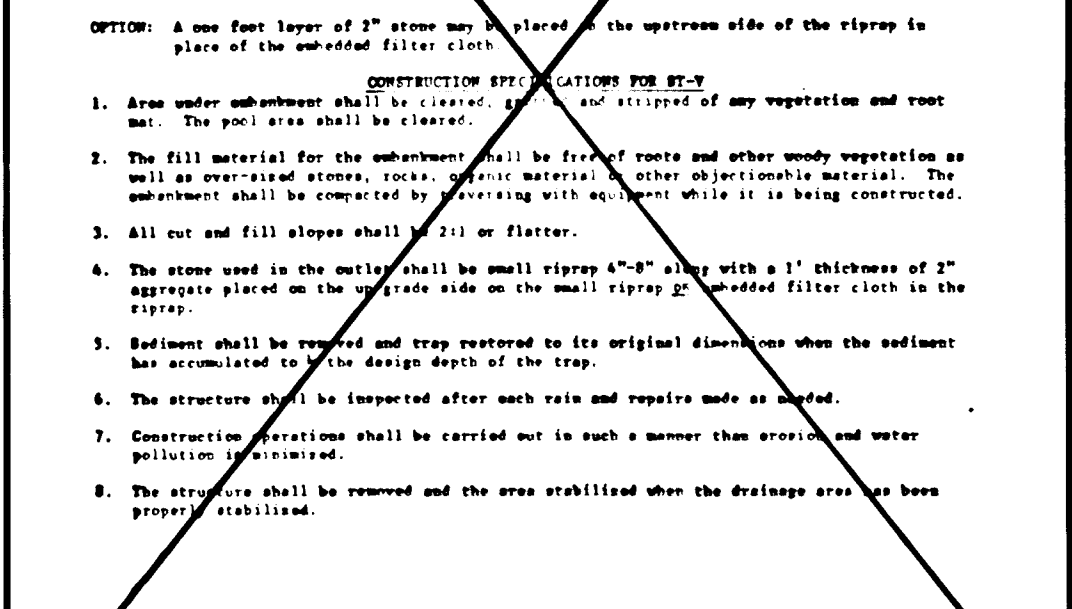
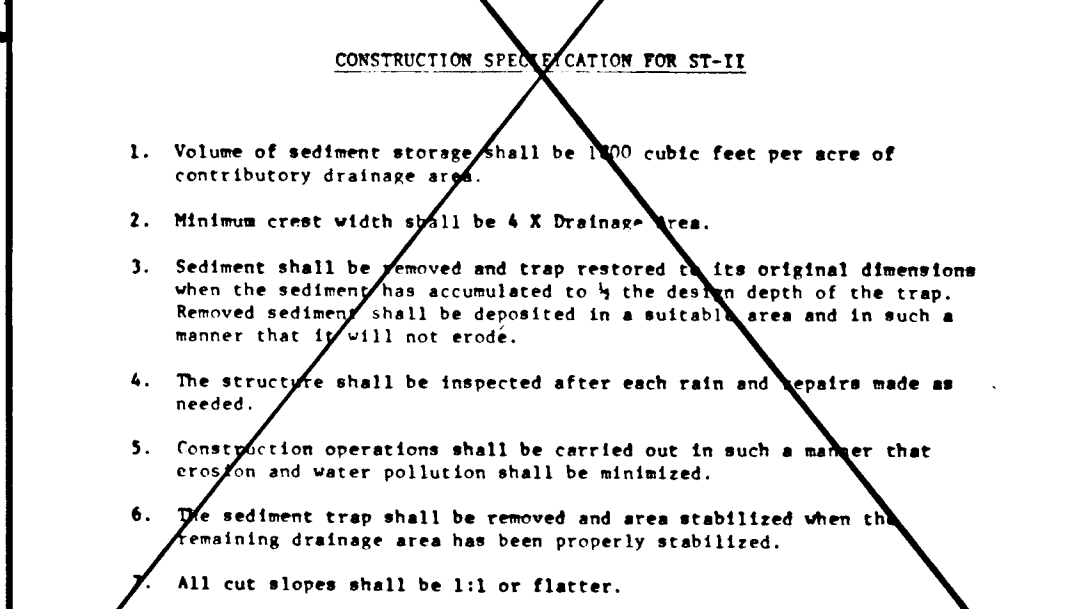
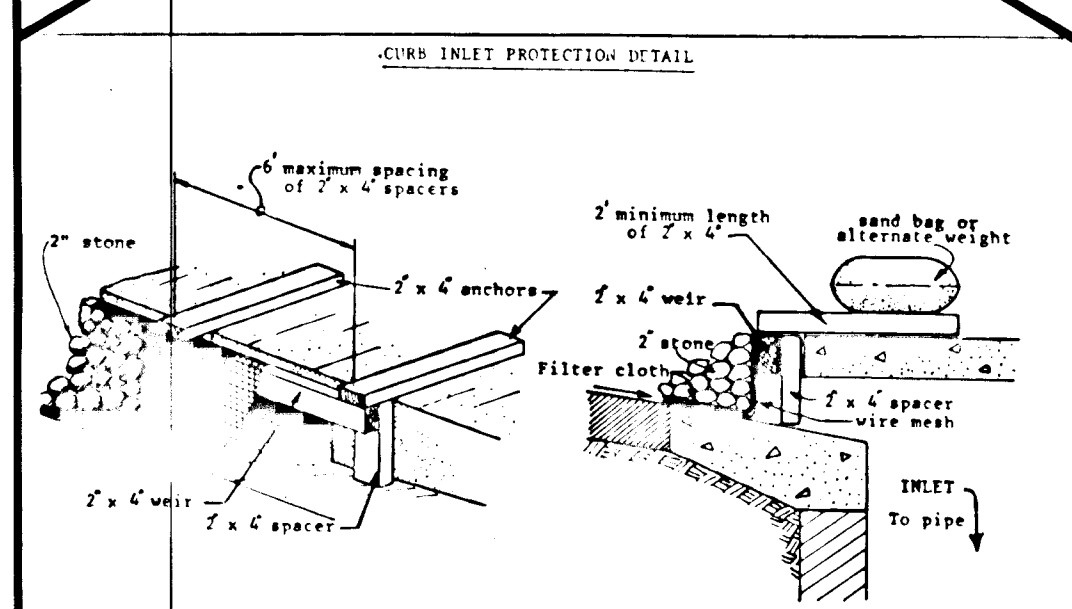
5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization 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.

7) Site Analysis:
 Total Area of Site: 21.075 Acres
 Area Disturbed: 2.27 Acres
 Area to be roofed or paved: .77 Acres
 Area to be vegetatively stabilized: 3.50 Acres
 Total Cut: 7.052 Cu. yds
 Total Fill: 7.052 Cu. yds
 Offsite waste/borrow area location: N/A

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.



Riprap Outlet Sediment Trap
 ST-IV (for Stone Lined Channel)

Contributing Drainage Area (Acres)	Depth of Channel (Feet)	Length of Weir (b) (Feet)
1	1.5	4.0
2	1.5	5.0
3	1.5	6.0
4	1.5	10.0
5	1.5	12.0
6	1.5	14.0
7	1.5	16.0
8	2.0	10.0
9	2.0	12.0
10	2.0	14.0
11	2.0	14.0
12	2.0	14.0
13	2.0	16.0
14	2.0	16.0
15	2.0	18.0

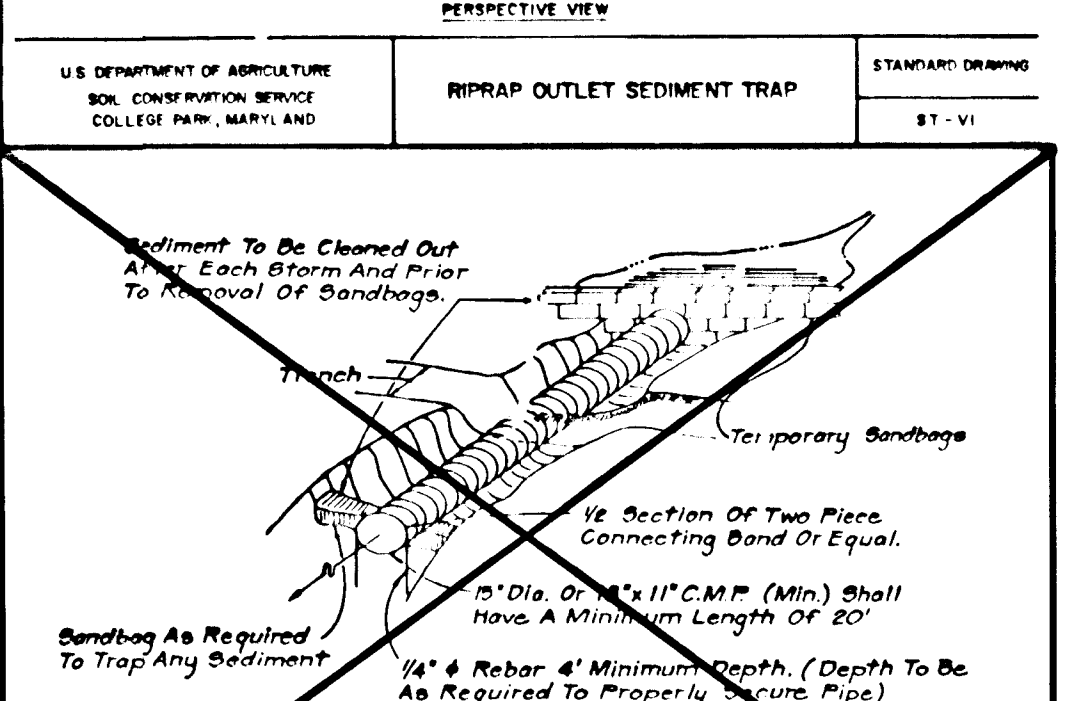
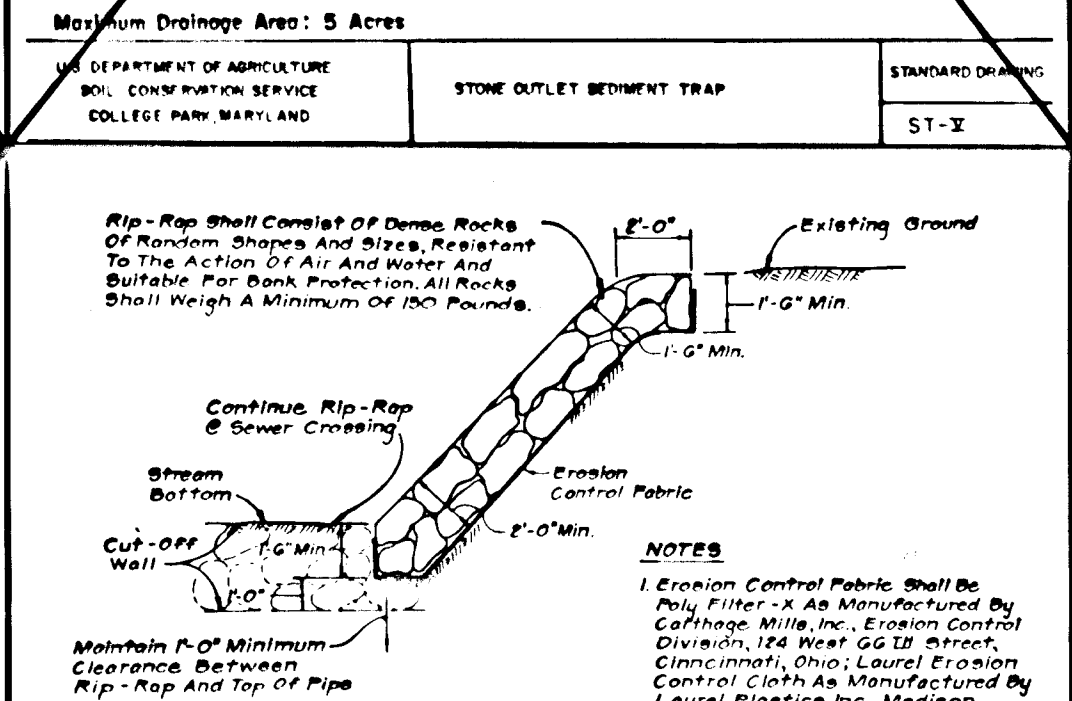
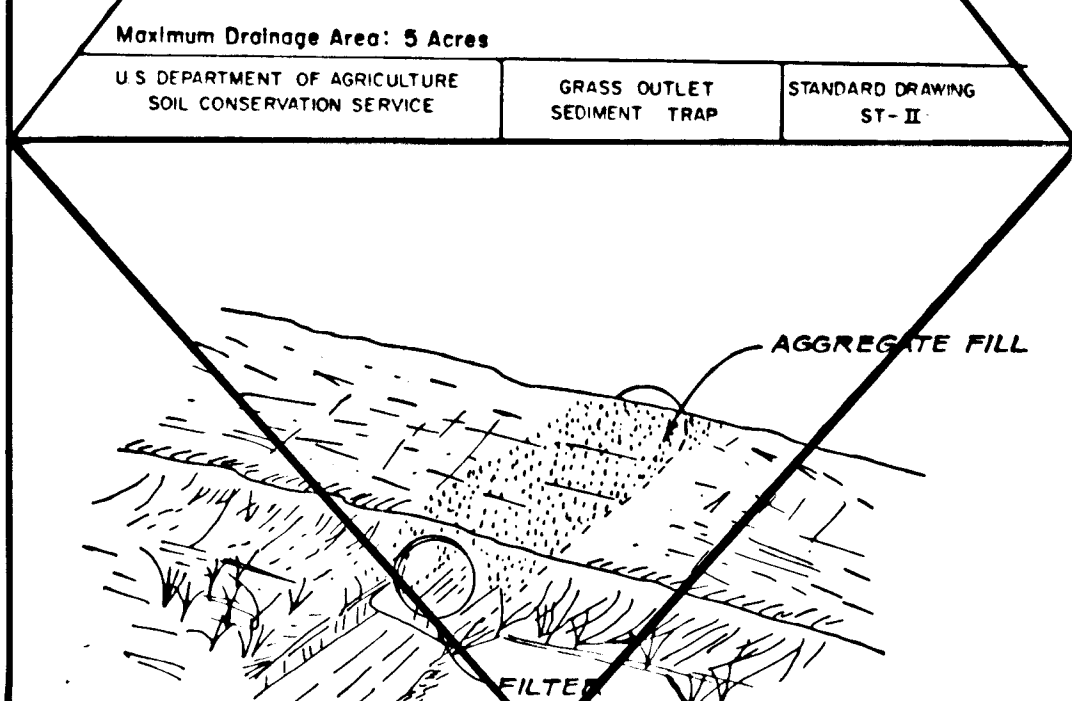
Construction Specifications

Materials

1. Wooden frame is to be constructed of 2"x4" construction grade lumber.
2. Plywood is to be a minimum thickness of 1/4" construction grade lumber.

Installation

1. Cut plywood to extend a minimum of 6" past throat along curb.
2. Attach to anchors in a secure manner which will insure a water tight fit against throat.
3. Brace securely using sandbag or alternate weight. If not watertight, use approved filter cloth under plywood and attach securely.



SOIL CONSERVATION MEASURES AT SMALL STREAM CROSSING

Contributing Drainage Area (Acres)	Depth of Channel (Feet)	Length of Weir (b) (Feet)
1	1.5	4.0
2	1.5	5.0
3	1.5	6.0
4	1.5	10.0
5	1.5	12.0
6	1.5	14.0
7	1.5	16.0
8	2.0	10.0
9	2.0	12.0
10	2.0	14.0
11	2.0	14.0
12	2.0	14.0
13	2.0	16.0
14	2.0	16.0
15	2.0	18.0

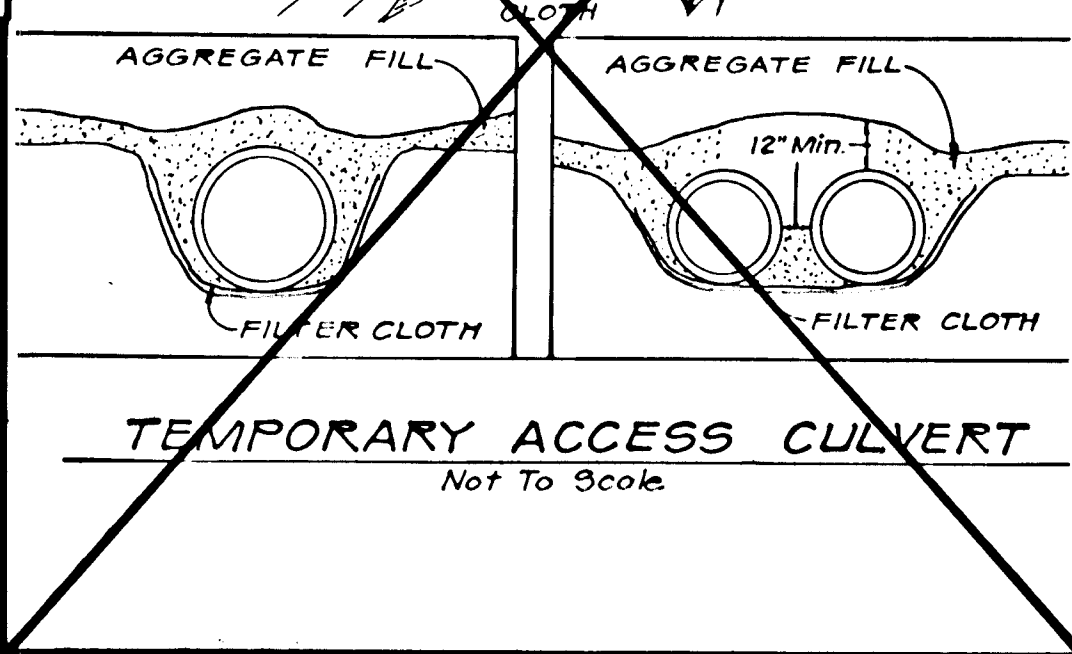
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

James M. Helton 10/19/87
 DATE

U.S. SOIL CONSERVATION SERVICE

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

Stephen L. Fisher 10/19/87
 DATE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF ZONING ADMINISTRATION.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

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APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF ZONING ADMINISTRATION.

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.

NOTE: FOR SEQUENCE OF CONSTRUCTIONS, SEE SHEET 5 OF 8

SEDIMENT CONTROL DETAIL SHEET

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING AND ZONING ADMINISTRATION.

James M. Helton 11-6-87
 DATE

U.S. SOIL CONSERVATION SERVICE

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

Stephen L. Fisher 10/19/87
 DATE

OWNER'S / DEVELOPER'S CERTIFICATION

"I/We 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: *James M. Helton* Date: 7/21/87
 Name: *James M. Helton* Title: *President* Phone No.:
 Firm: *Newbern Development Corp.* Complete Address:

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."

James M. Helton 7/21/87
 Date

Registered Professional Engineer # 8978

KIDDE CONSULTANTS, INC.
 ENGINEERS • PLANNERS • SURVEYORS

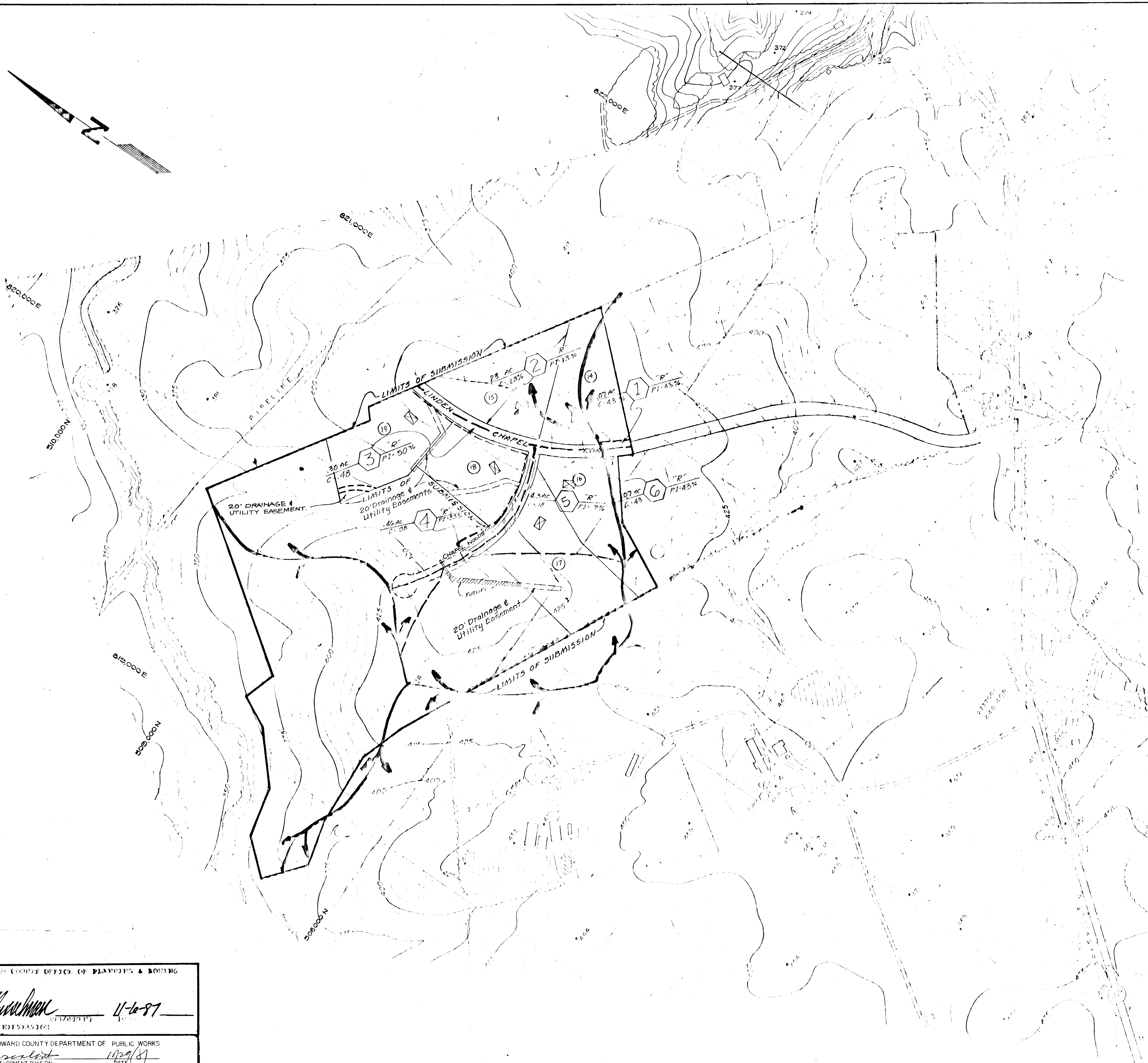
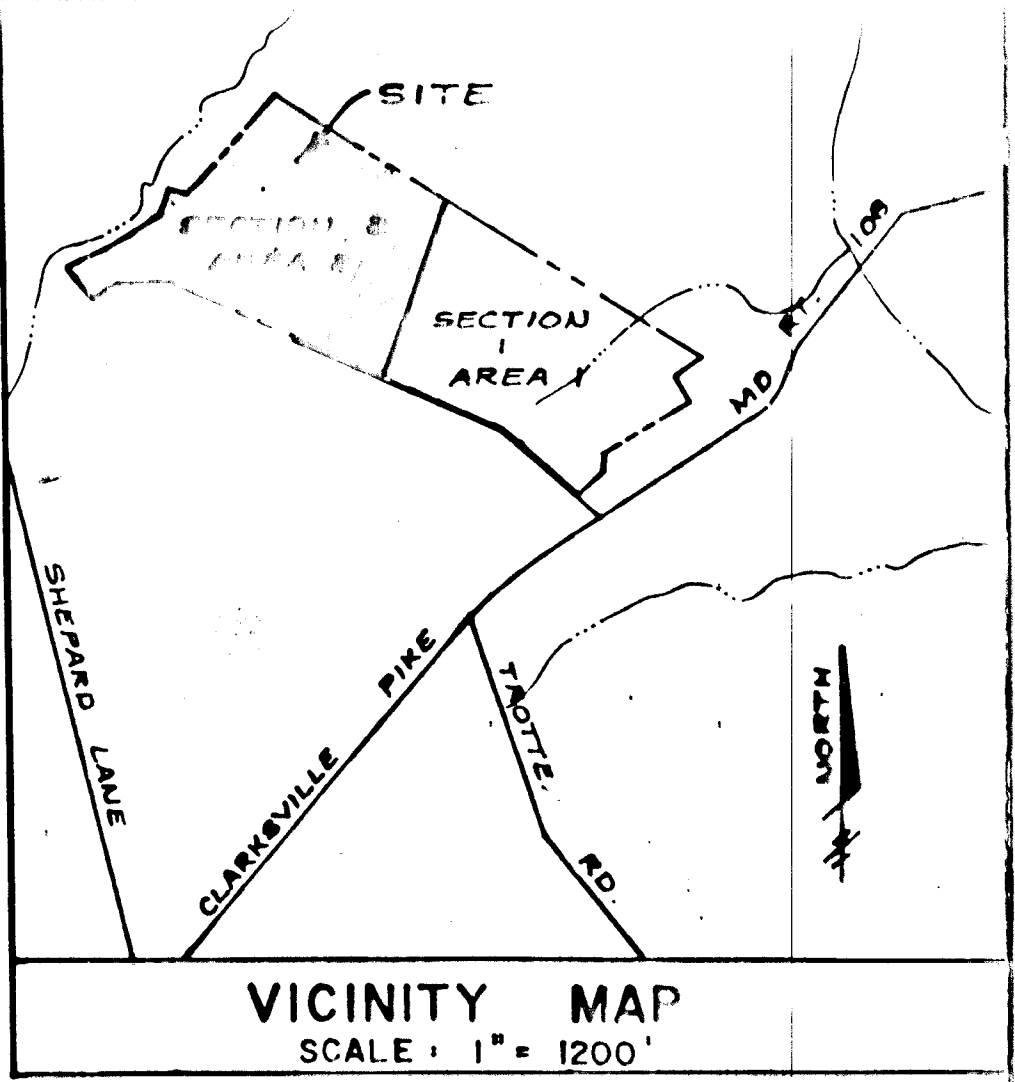
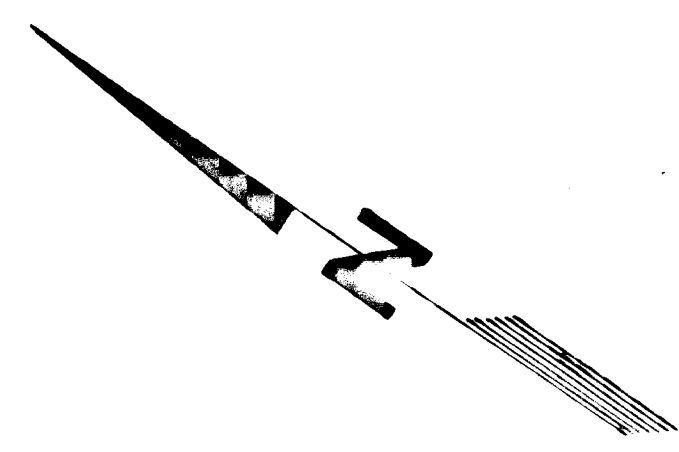
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
 (Wash.) (301) 953-1821 / 792-8086 (Balt.)

CHAPEL WOODS
 SEC 2 AREA 2
 TAX MAP 29 PARCEL 41
 5TH ELECTION DIST. HOWARD COUNTY MD

DATE	REVISIONS	SHEET	TOTAL SHEETS
6		6	8
8		6	8

JULY, 1987
 SCALE
 NO SCALE

F-88-38



NOTE: HOUSE LOCATIONS INDICATE NO DRAINAGE WILL IMPACT HOUSES. HOUSE LOCATIONS FROM PRELIMINARY PLAN.

LEGEND:
 - - - - - EXISTING DRAINAGE DIVIDE
 - - - - - PROPOSED DRAINAGE DIVIDE

OWNER/DEVELOPER
 NEWBURN DEVELOPMENT CORP
 5570 STERRETT PLACE SUITE 201
 COLUMBIA MARYLAND 21044

**DRAINAGE AREA MAP
 FOR
 CHAPEL WOODS**

SECTION 2 AREA 2
 TAX MAP 29 PARCEL 41
 5TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

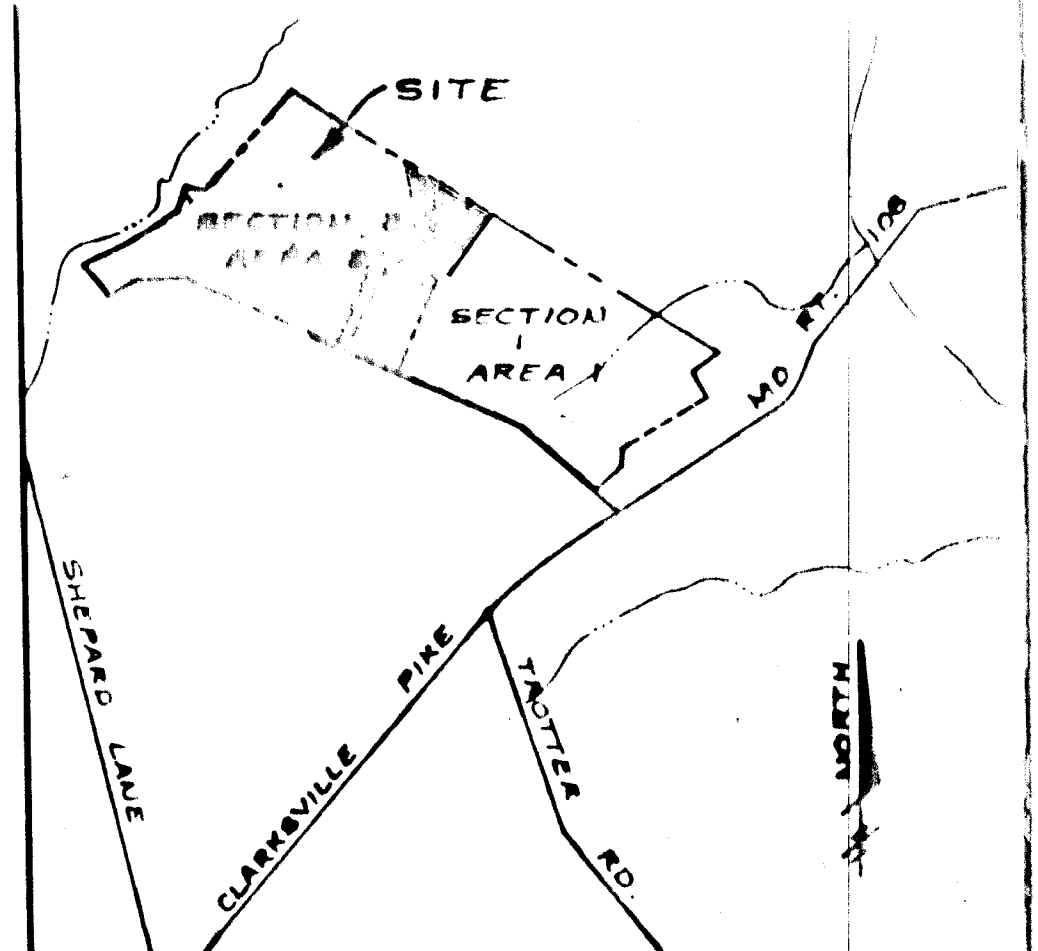
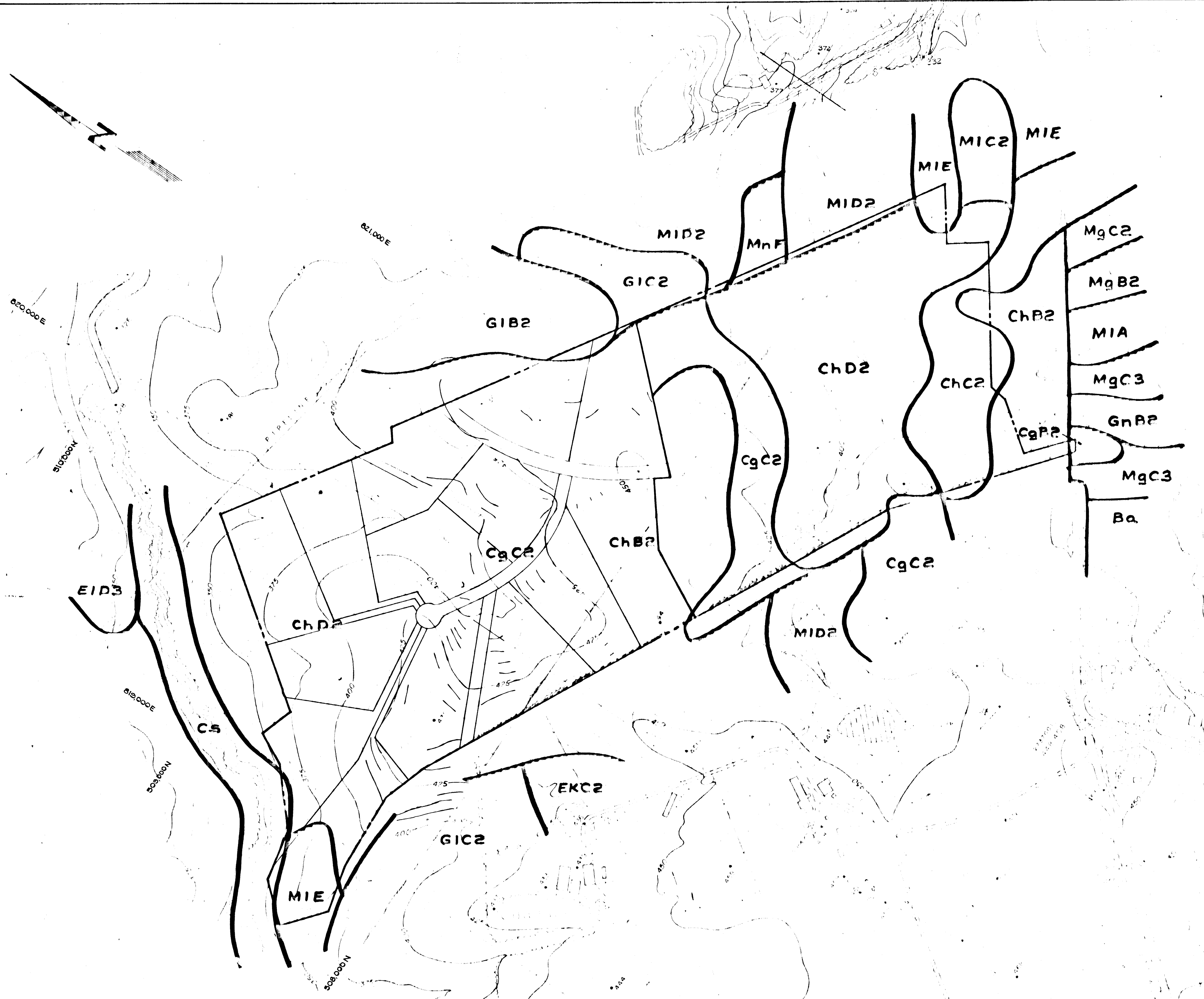
SHEET 7 OF 8

HOWARD COUNTY OFFICE OF PLANNING & ZONING
 APPROVED: *[Signature]* 11-16-87
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 11/29/87
 DEVELOPMENT DIVISION
[Signature] 10/30/87
 DATE
[Signature] 11-2-87
 DATE

KIPP, COMPTON, & ASSOCIATES, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
 (301) 953-1321 / 782-RIVE (1-211)
 STATE OF MARYLAND PROFESSIONAL ENGINEERS
 IN E.C. PATMORE # 8076
 JULY 1987 1" = 20'

F-88-38

717



VICINITY MAP
SCALE: 1" = 1200'

SOIL TYPE	GROUP	DESCRIPTION
Ba	D	BAY SILT LOAM
Cg B2	B	CHESTER GRAVELLY SILT LOAM 3-8% SLOPES, MODERATELY ERODED
Cg C2	B	CHESTER GRAVELLY SILT LOAM 8-15% SLOPES, MODERATELY ERODED
Ch B2	B	CHESTER SILT LOAM 3-8% SLOPES, MODERATELY ERODED
Ch C2	B	CHESTER SILT LOAM 8-15% SLOPES, MODERATELY ERODED
Ch D2	B	CHESTER SILT LOAM 15-25% SLOPES, MODERATELY ERODED
Ca	B	COMB SILT LOAM
Ea C2	B	ELDON SILT LOAM 8-15% SLOPES, MODERATELY ERODED
E1 D3	B	ELDON SILTY CLAY LOAM 15-25% SLOPES, SEVERELY ERODED
G1 B2	B	GLENGLE LOAM 3-8% SLOPES, MODERATELY ERODED
G1 C2	B	GLENGLE LOAM 8-15% SLOPES, MODERATELY ERODED
Gn B2	C	GREENSBORO SILT LOAM 3-8% SLOPES, MODERATELY ERODED
Mg B2	B	MANNING GRAVELLY LOAM 3-8% SLOPES, MODERATELY ERODED
Mg C2	B	MANNING GRAVELLY LOAM 8-15% SLOPES, MODERATELY ERODED
Mg C3	B	MANNING GRAVELLY LOAM 8-15% SLOPES, SEVERELY ERODED
M1 A	B	MANNING LOAM 0-3% SLOPES
M1 C2	B	MANNING LOAM 8-15% SLOPES, MODERATELY ERODED
M1 D2	B	MANNING LOAM 15-25% SLOPES, MODERATELY ERODED
M1 E	B	MANNING LOAM 25-45% SLOPES
M1 F	B	MANNING VERY STONY LOAM 25-45% SLOPES

OWNER/DEVELOPER
NEWBURN DEVELOPMENT CORP
5570 STERRETT PLACE SUITE 201
COLUMBIA MARYLAND 21044

SOILS MAP
FOR
CHAPEL WOODS

SECTION 2 AREA 2
TAX MAP 29 PARCEL 41
5TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

SHEET 8 OF 8

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. ... 11-6-87
ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Donna ... 10/24/87
CHIEF, LAND DEVELOPMENT DIVISION

Shawille W. Wallace 10/30/87
CHIEF, BUREAU OF HIGHWAYS

DeCain & ... 11-2-87
CHIEF, BUREAU OF ENGINEERING

KIDD & COMPANY, INC.
ENGINEERS • PLANNERS • SURVEYORS
1100 WEST STREET / SUITE 100 / LAUREL MD 20702
(WASH.) (301) 953-1821 / 792-6286 (BUS.)

JOHN E.C. PATMORE #6678
DATE: JULY, 1987 SCALE: 1" = 200'

F-88-38