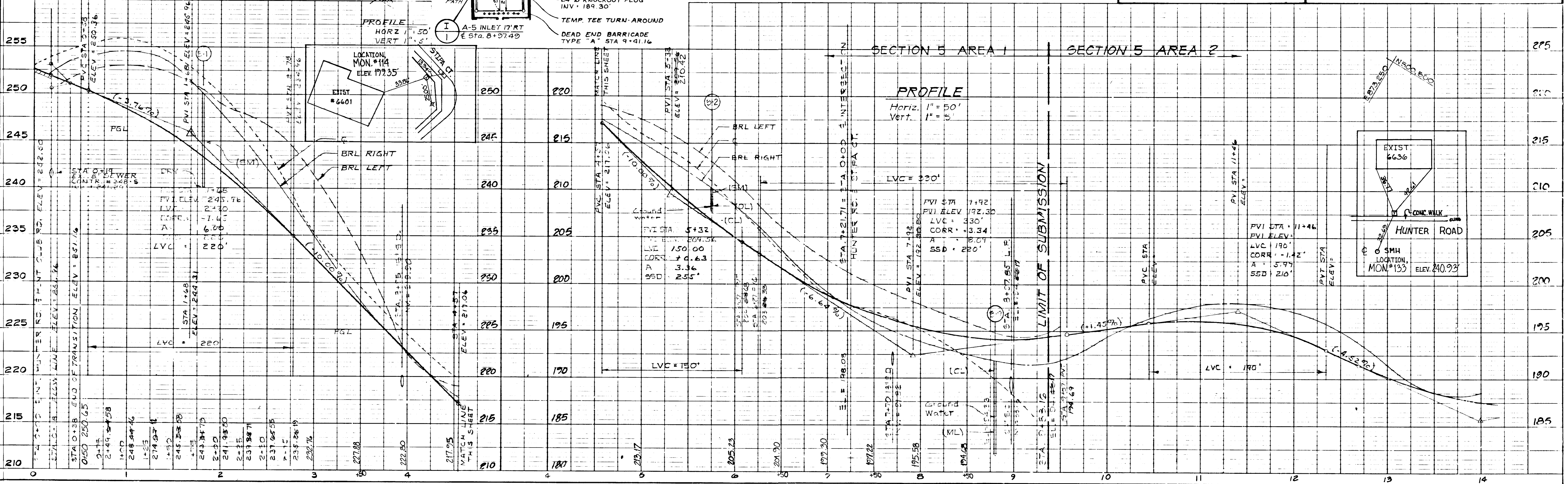
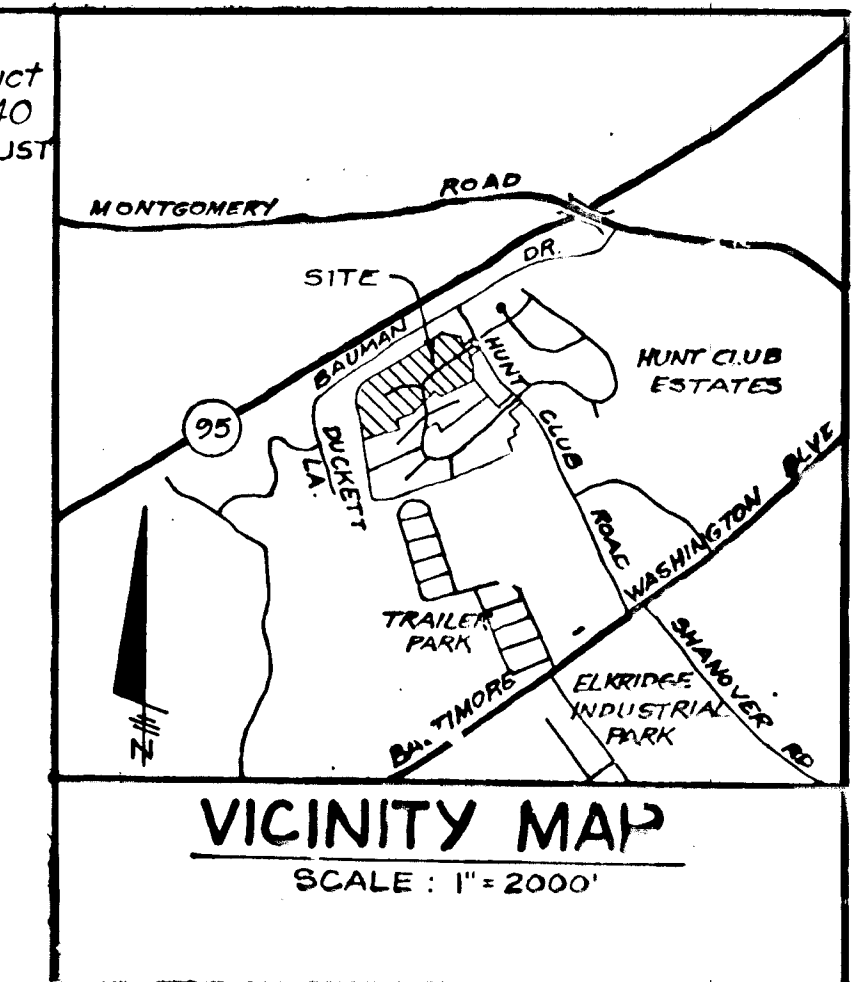
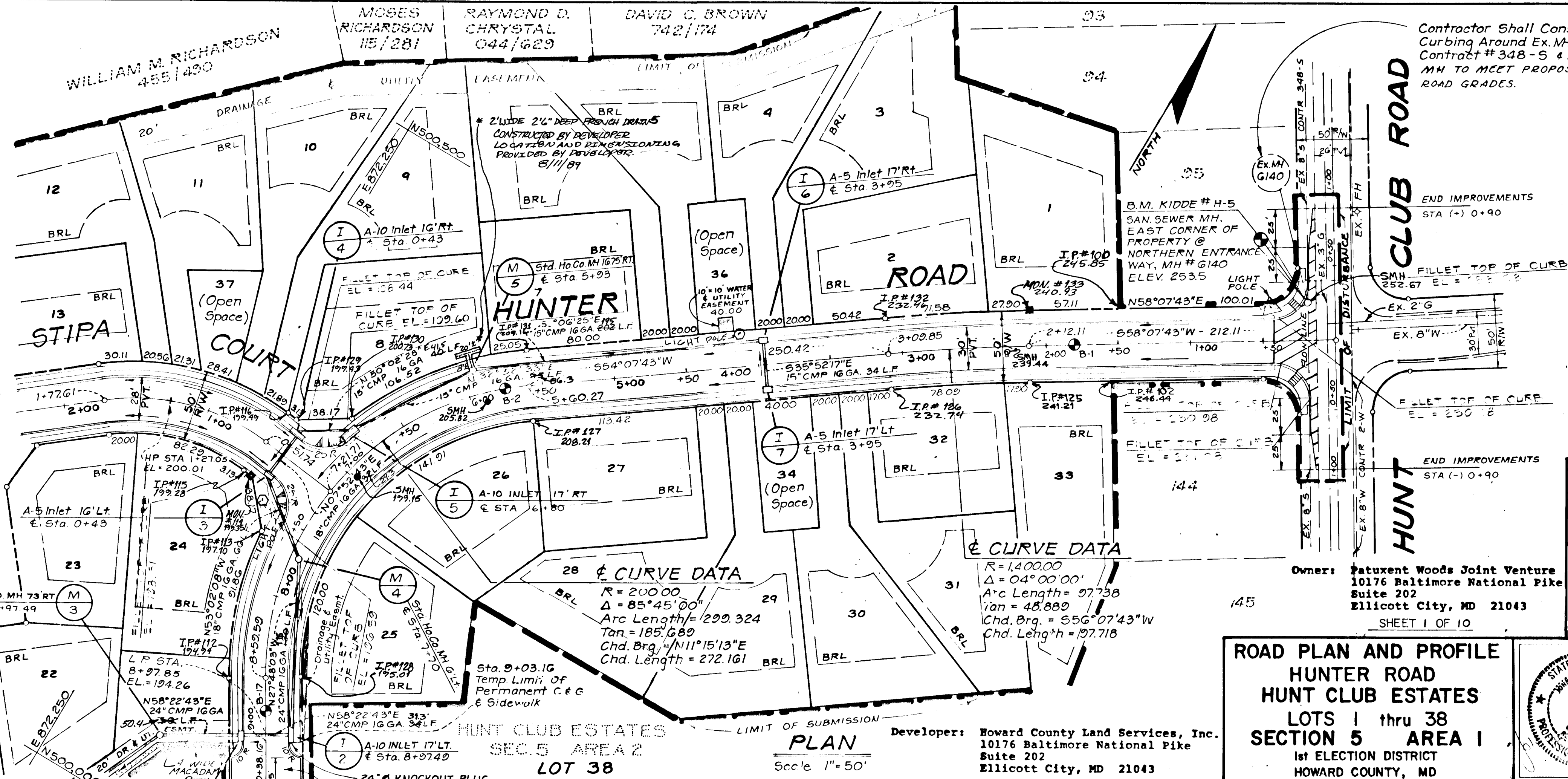


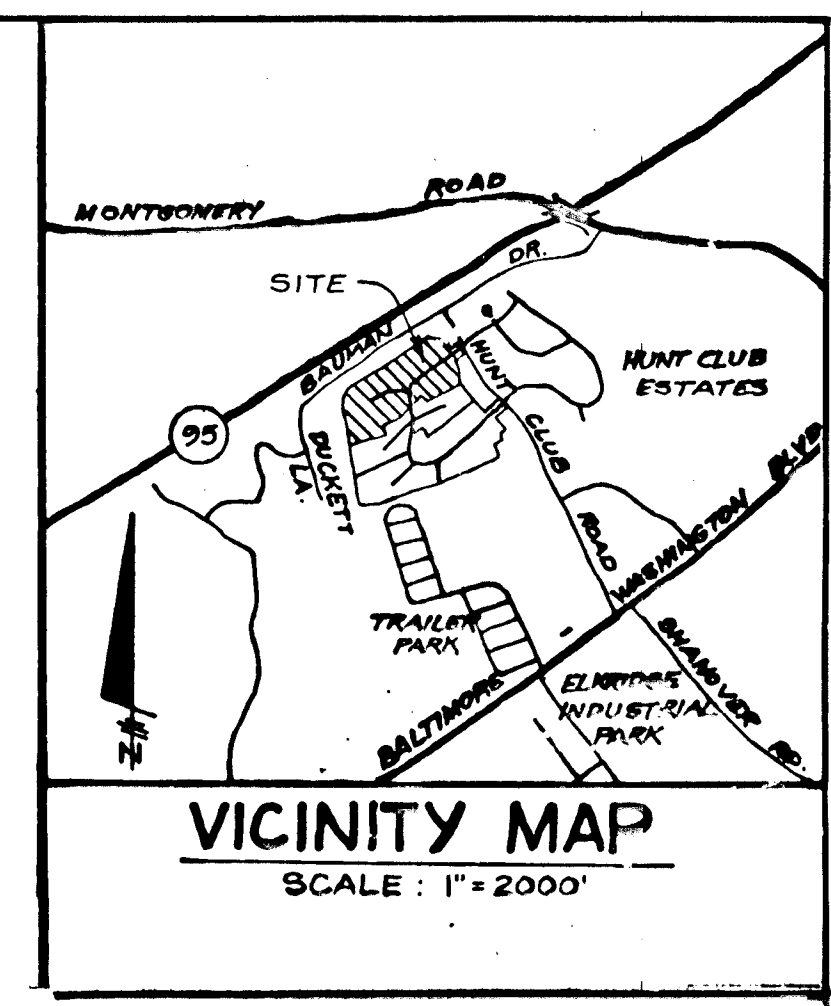
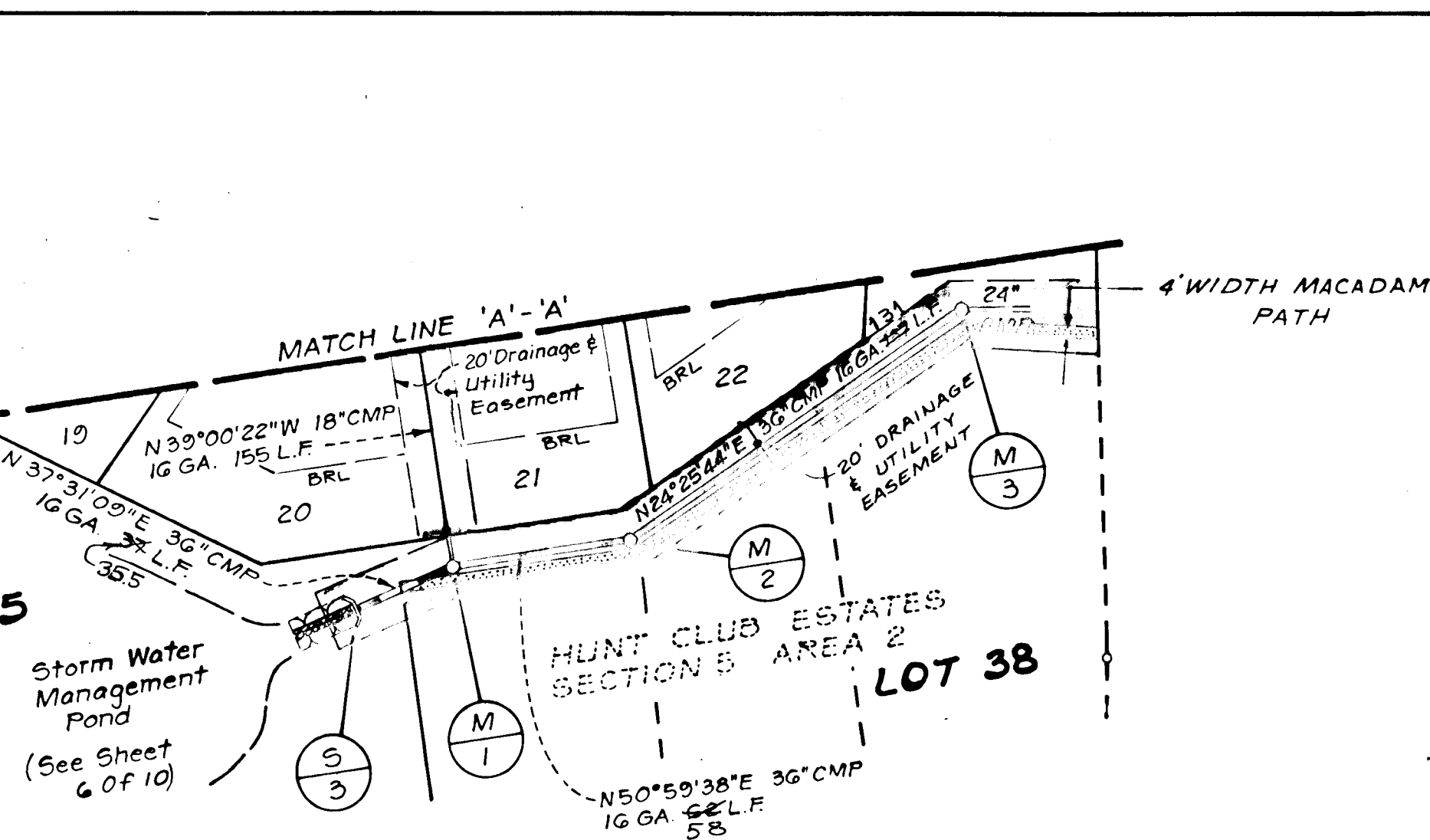
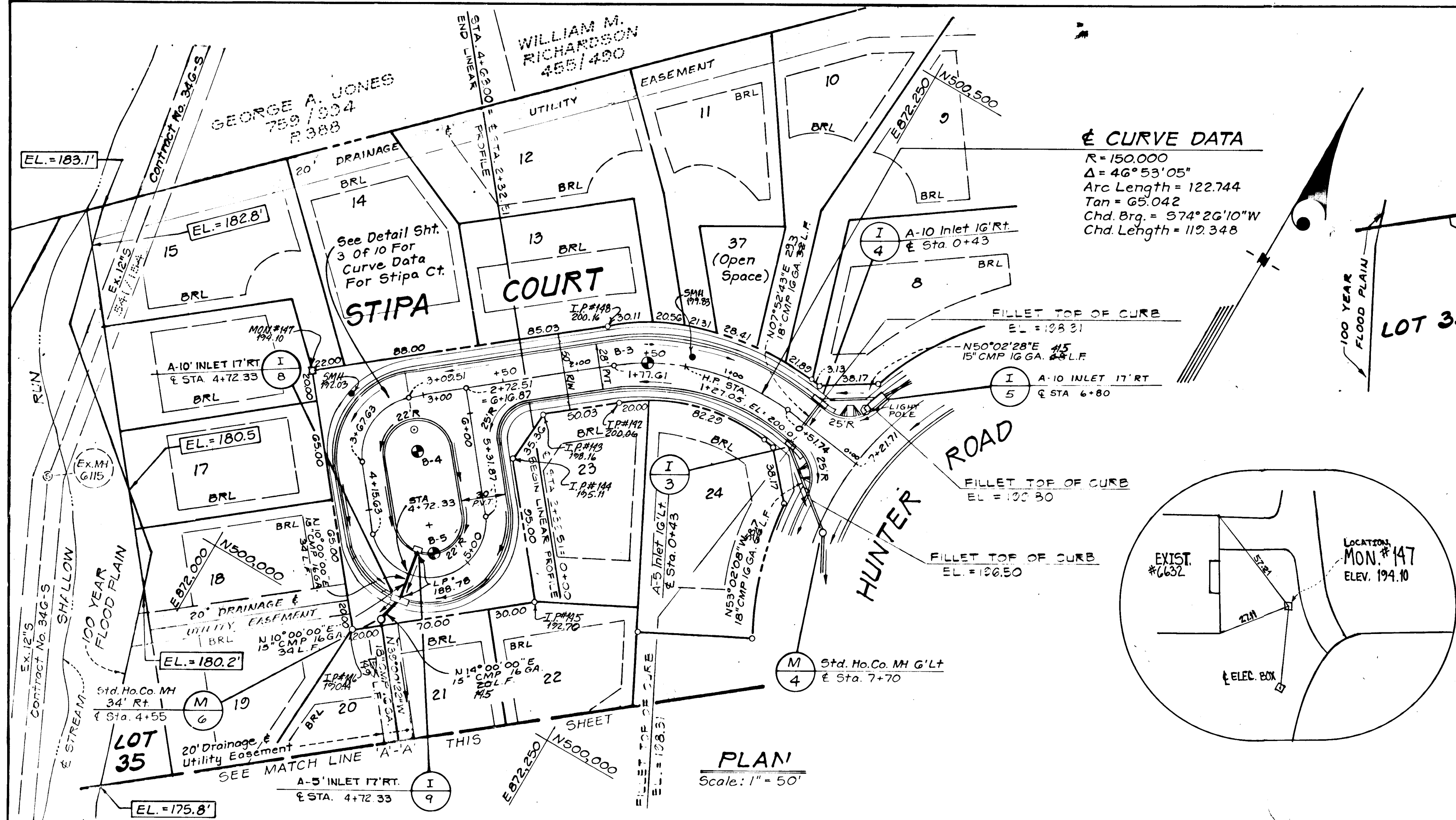
GENERAL NOTES

- ALL STORM DRAIN & PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD CO. & M.D. S.H.A.
- TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD COUNTY & M.D. S.H.A.
- TRENCH COMPACTION FOR STORM DRAINS WITHIN ROAD 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, AT 1-800-257-7777.
- ALL TRAFFIC CONTROL SERVICES, PARKING AND SIGNING TO BE DONE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", 1978 EDITION.
- SAG AND CREST VERTICAL CURVES WERE DESIGNED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME III, ROADS & BRIDGES.
- PROVIDE CONCRETE SIDEWALK RAMPS IN CURBS, WHERE SHOWN ON PLAN (MAX. 12:1 SLOPE; SEE HOWARD CO. STD. DETAIL, R-4.01)
- MINIMUM COVER OF 12" SHALL BE PROVIDED OVER STORM DRAIN PIPES ON ALL AREAS NOT BEING FINAL GRADED BY THESE PLANS.
- DESIGN SPEED: 30 M.P.H.
- Street lights for this subdivision shall be as follows:  
 The symbol  $\odot$  indicates a 175-watt "Modern" Mercury vapor lamp post top fixture on a 14-foot gray fiberglass pole.  
 The symbol  $\triangle$  indicates a 250-watt Mercury vapor lamp pendant mounted fixture on a 25-foot galvanized steel pole.
- ALL HORIZONTAL AND VERTICAL CONTROLS BASED ON MARYLAND STATE DATUM.
- EXISTING TOPOGRAPHY SHOWN WAS SUPPLIED BY MAPPING ASSOCIATES, INC., MAYO, MD. ON DECEMBER 13, 1983 @ 50 SCALE.
- REFER TO SHEETS 4 OF 10 THRU 7 OF 10 FOR EROSION AND SEDIMENT CONTROL.



PLAN  
 DRAWN BY: [ ]  
 CHECKED BY: [ ]  
 DATE: [ ]  
 NO. [ ]

PROFILE  
 DRAWN BY: [ ]  
 CHECKED BY: [ ]  
 DATE: [ ]  
 NO. [ ]



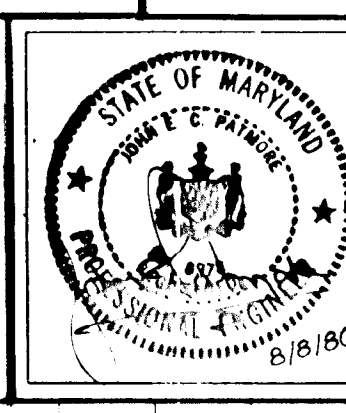
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Chief, Division of Land Development and Zoning Administration  
 Date: 3-31-87  
 Signature: [ ]

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering  
 Date: 3-30-87  
 Signature: [ ]

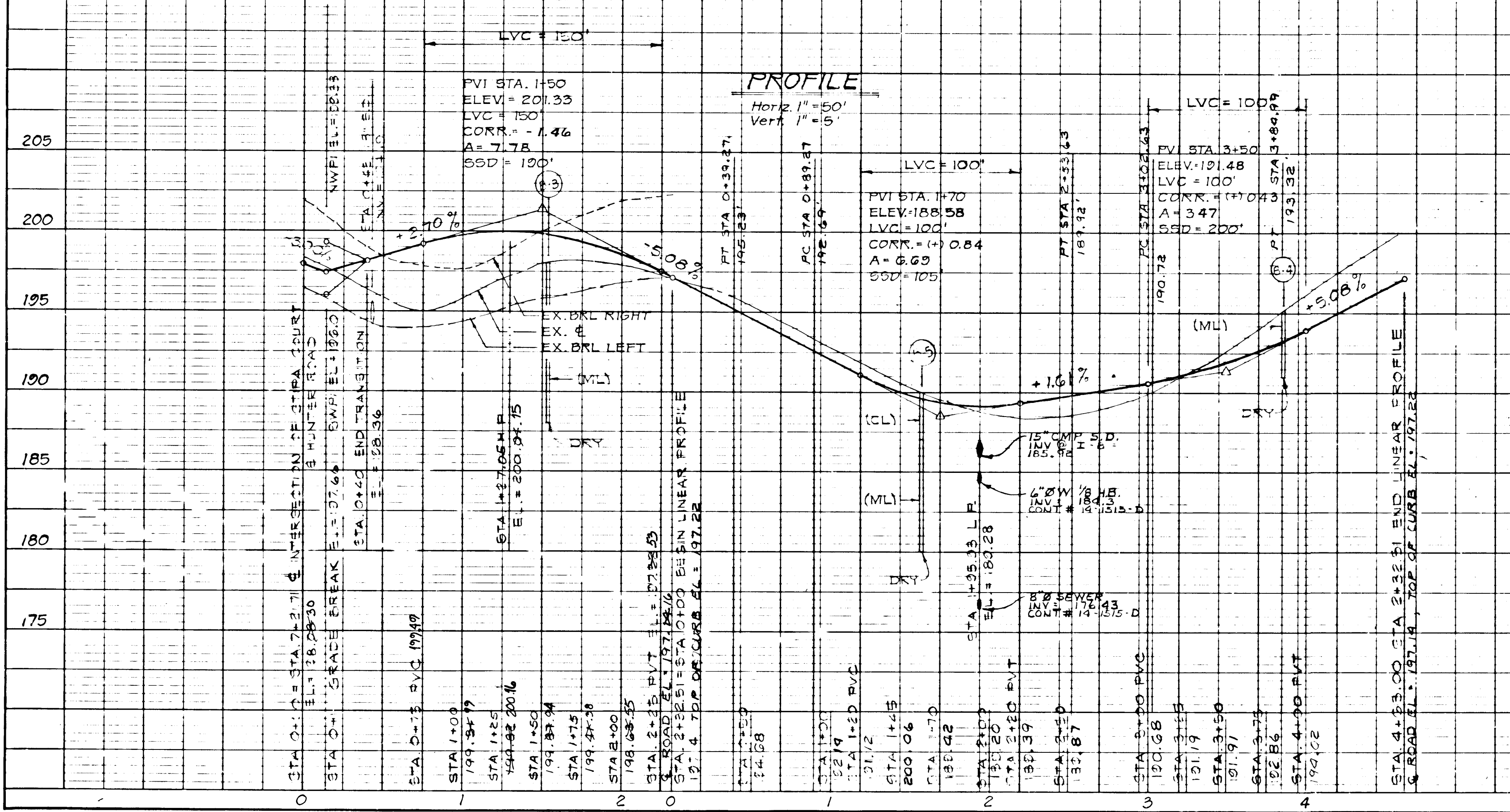
Developer: Howard County Land Services, Inc.  
 10176 Baltimore National Pike  
 Suite 202  
 Ellicott City, MD 21043

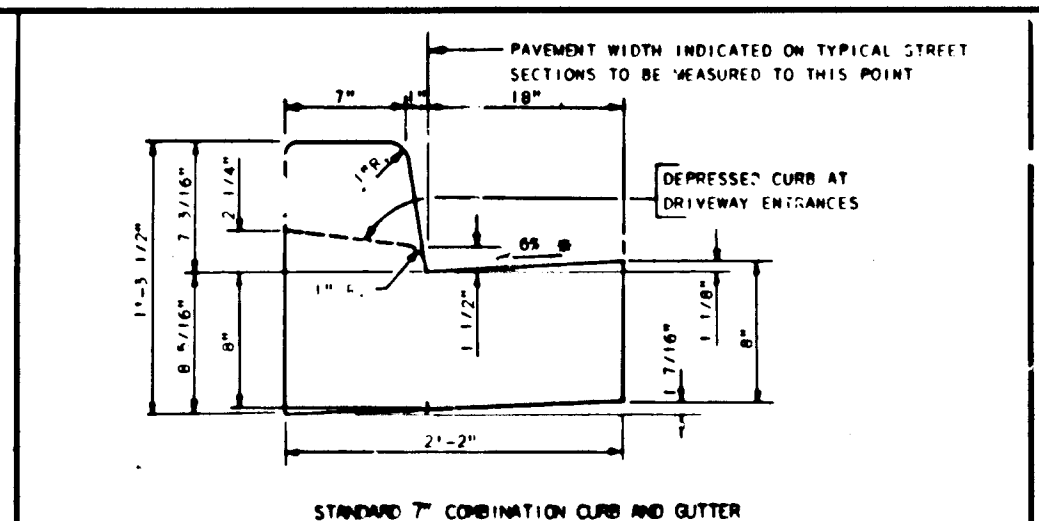
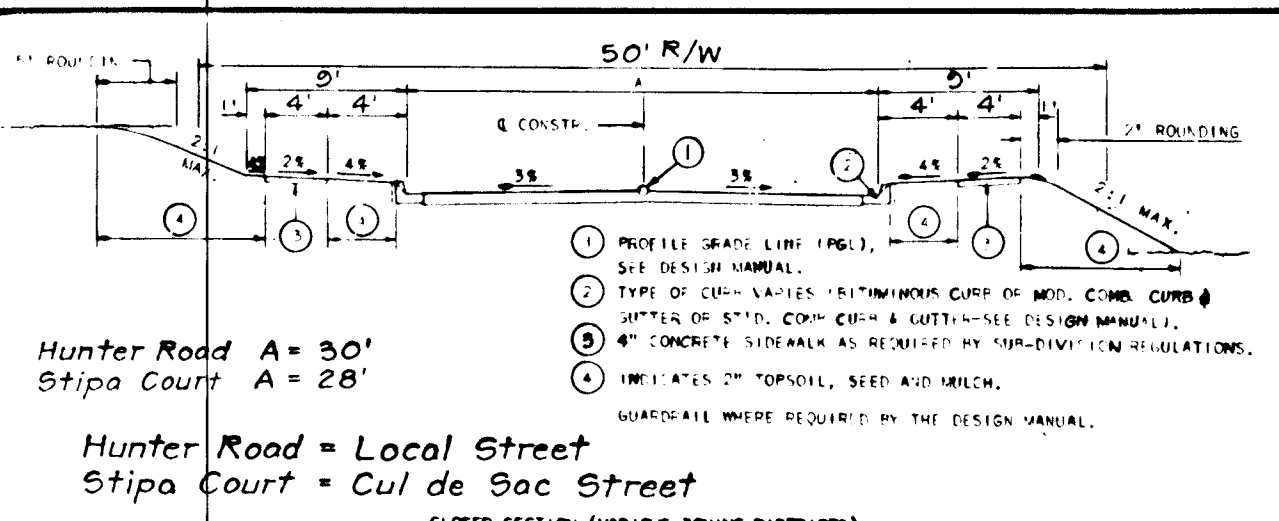
Owner: Patuxent Woods Joint Venture  
 10176 Baltimore National Pike  
 Suite 202  
 Ellicott City, MD 21043

**ROAD PLAN AND PROFILE**  
**STIPA COURT**  
**HUNT CLUB ESTATES**  
 LOTS 1 thru 38  
**SECTION 5 AREA 1**  
 1st ELECTION DISTRICT  
 HOWARD COUNTY, MD



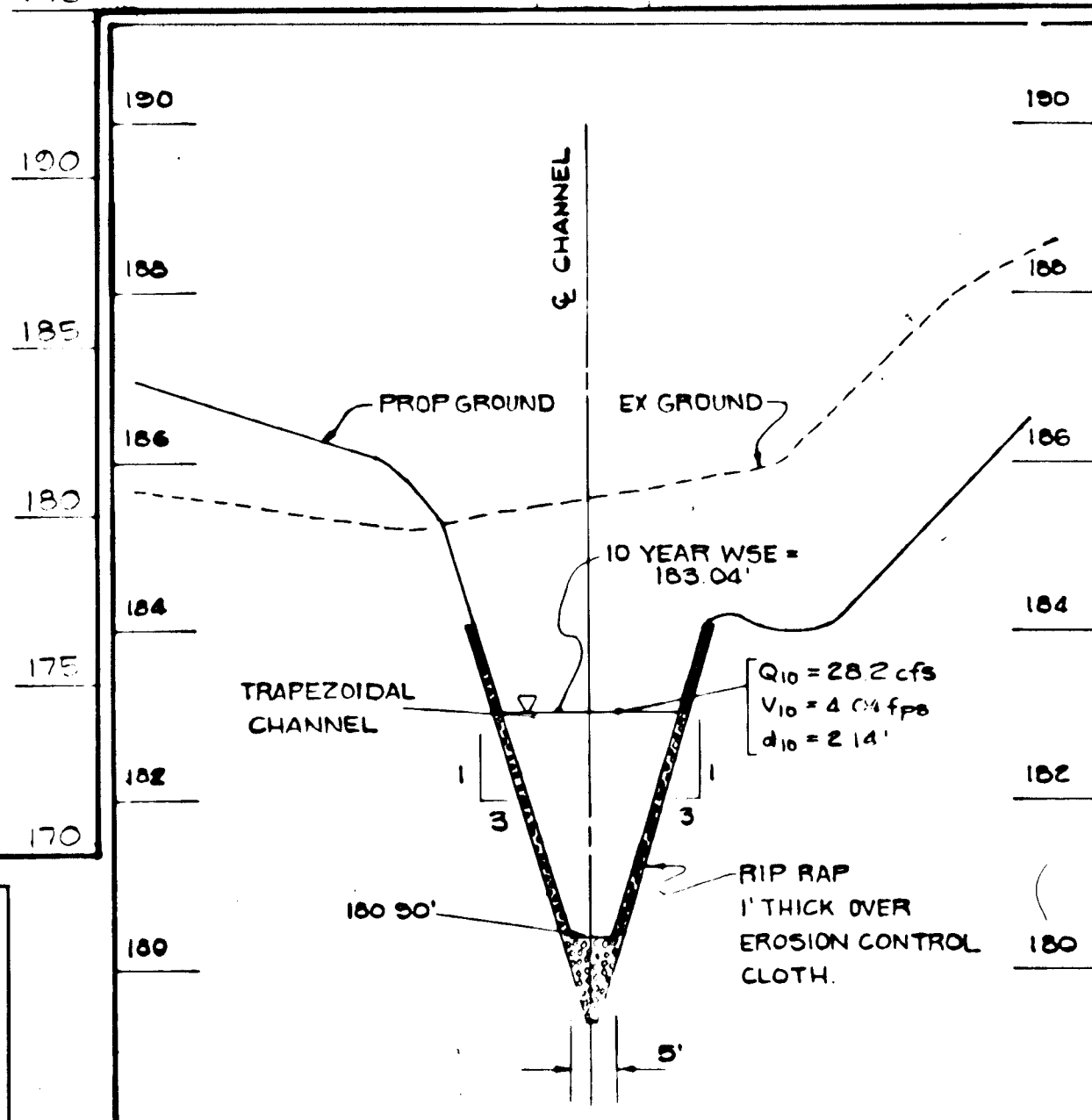
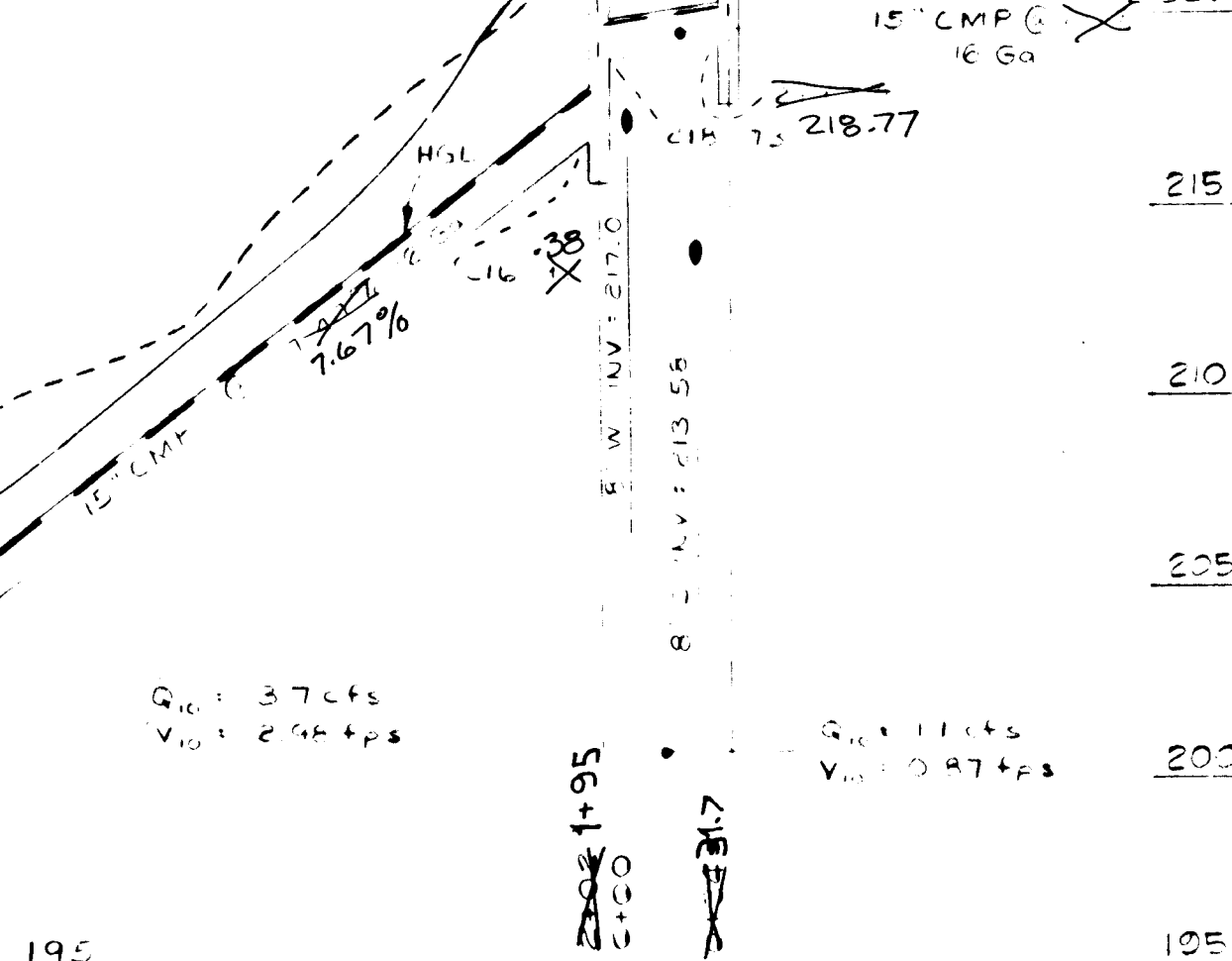
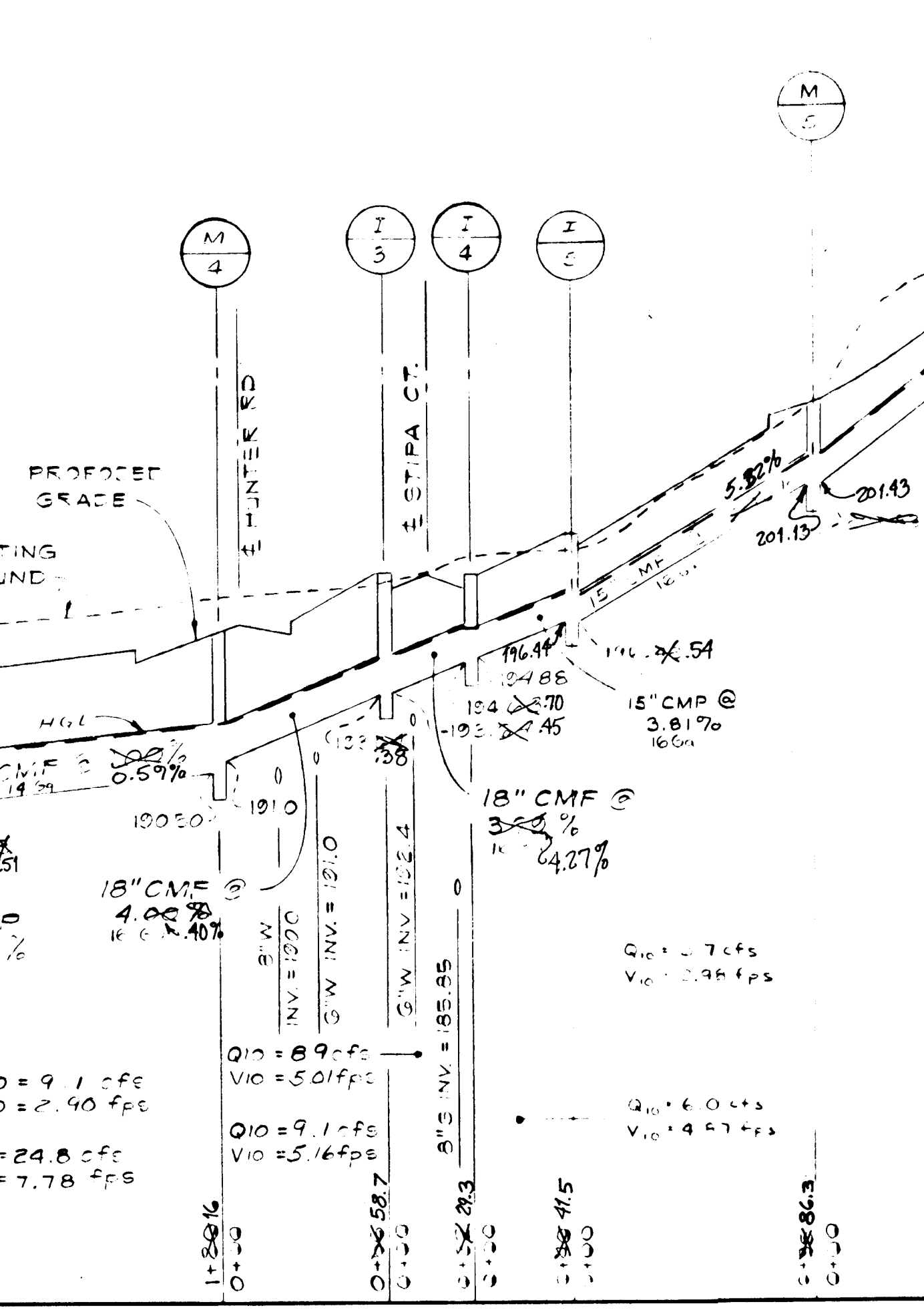
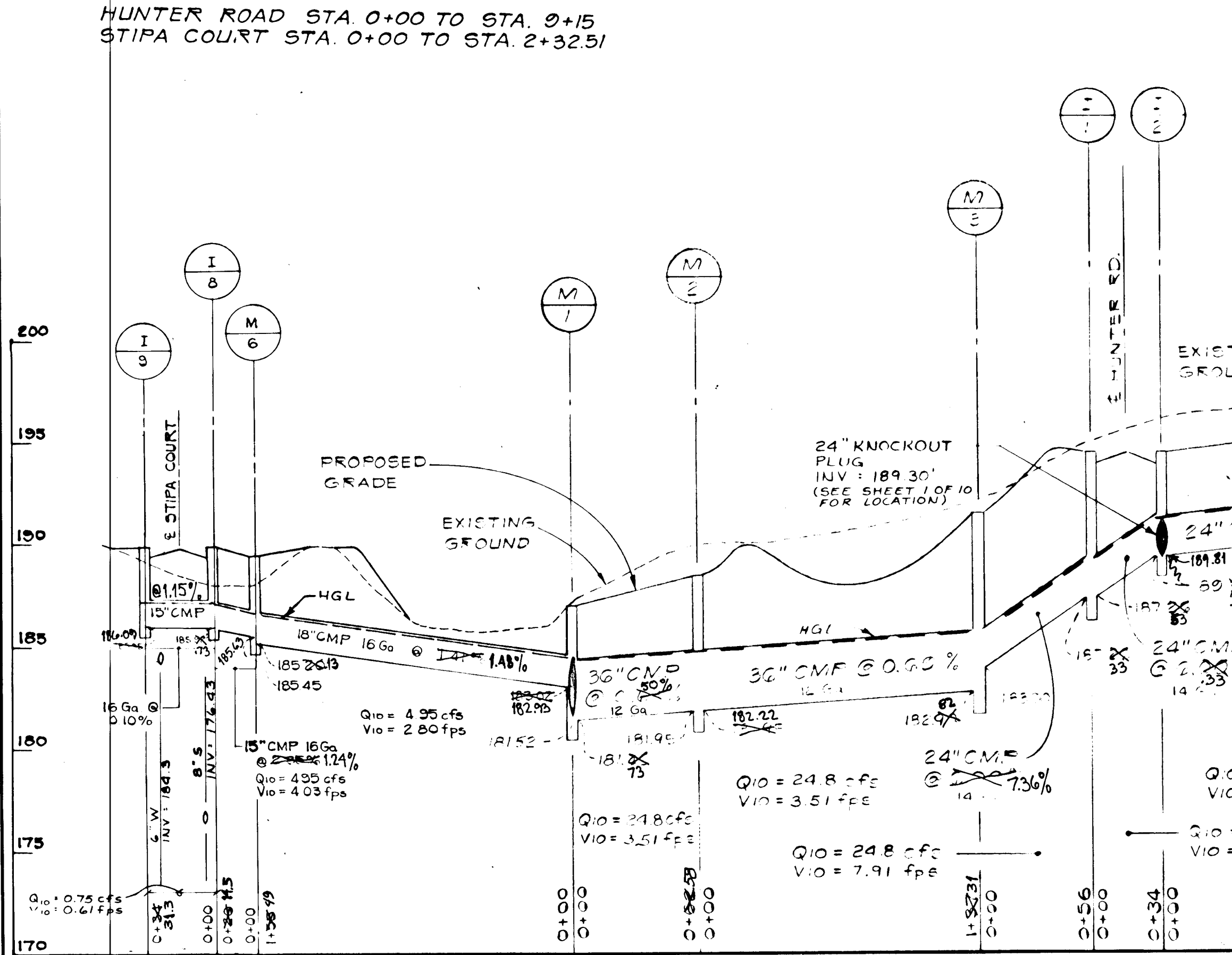
**KIDDE CONSULTANTS, INC.**  
 ENGINEERS, LAND PLANNERS & SURVEYORS  
 1100 WEST ST. / SUITE 100 / LAUREL, MD 20707  
 (Wash.) (301) 853-1821 / 792-8086 (Rt.)  
 John E. Kidde  
 JOHN E.C. PATMORE NO. 8978  
 DATE: Aug. 1986 SCALE: AS SHOWN  
 KCI JOB # 1684151



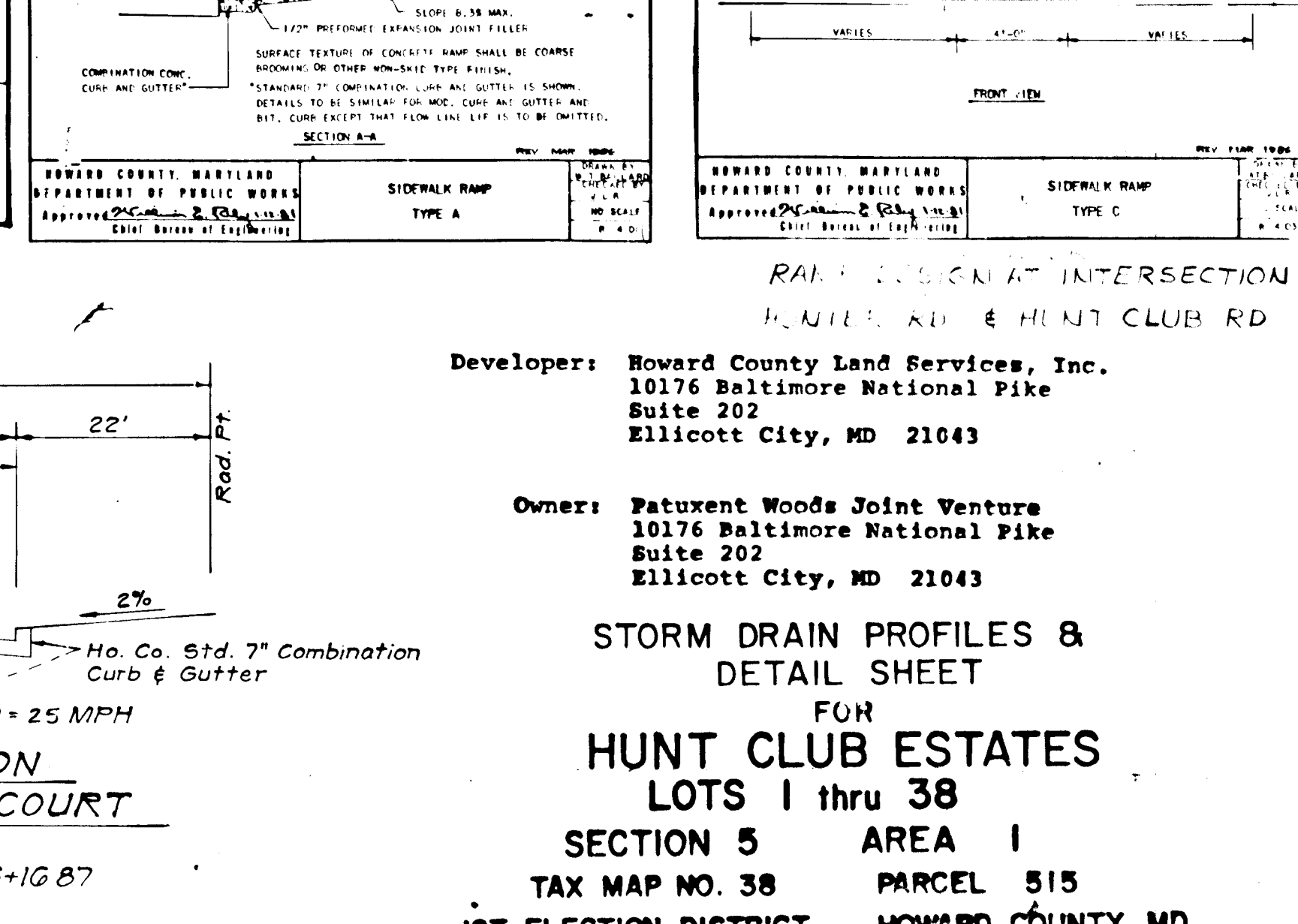
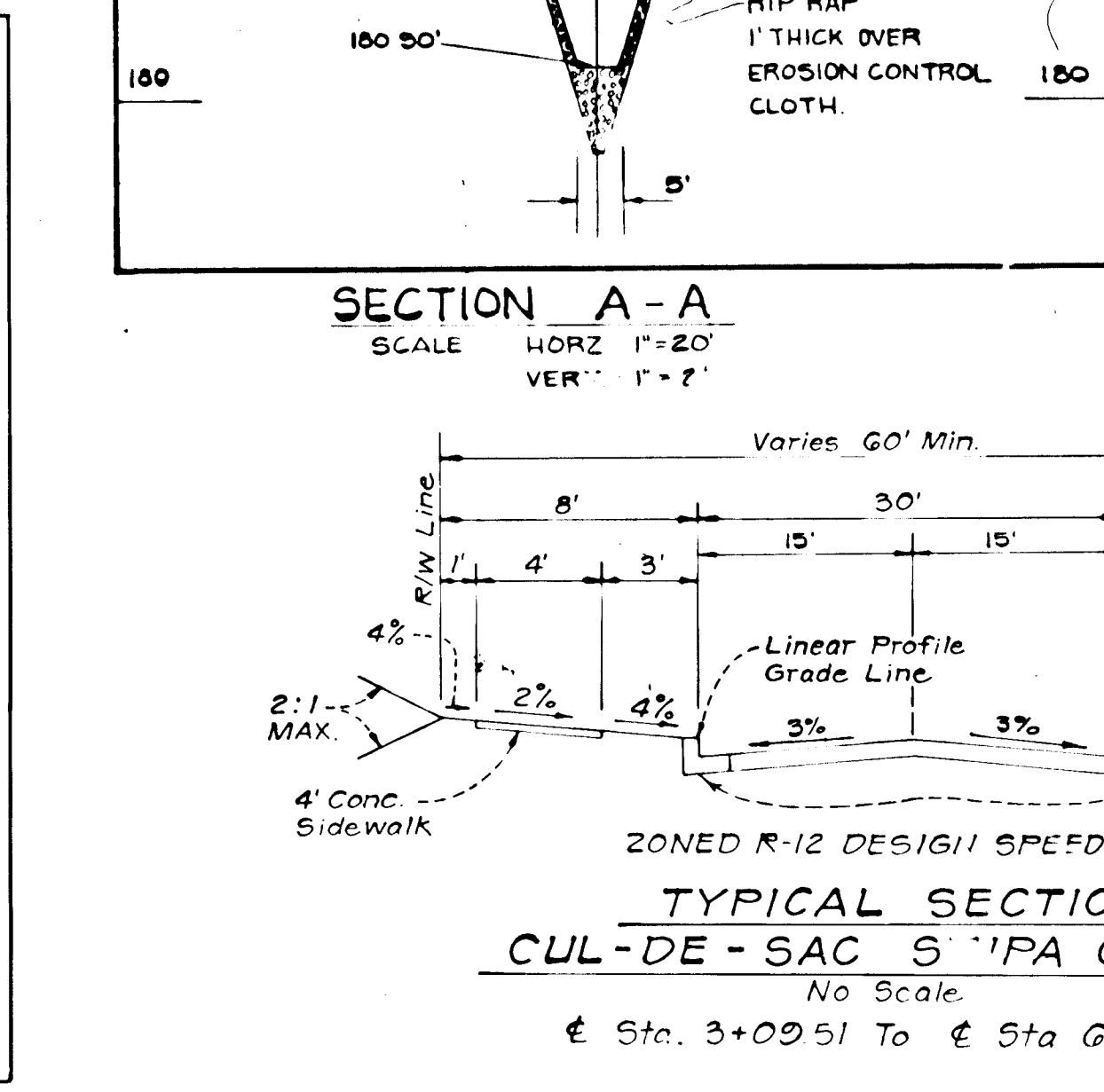
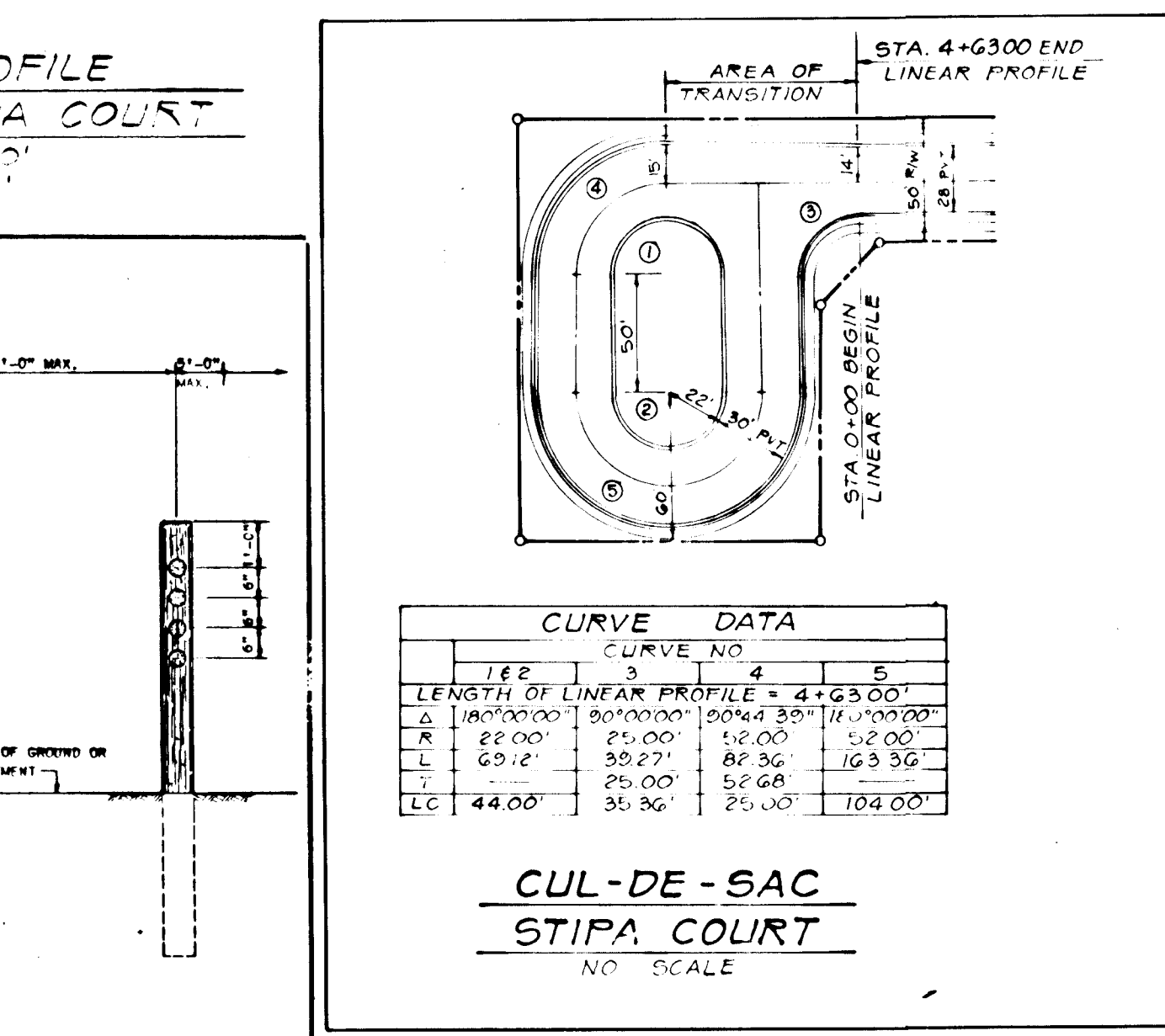
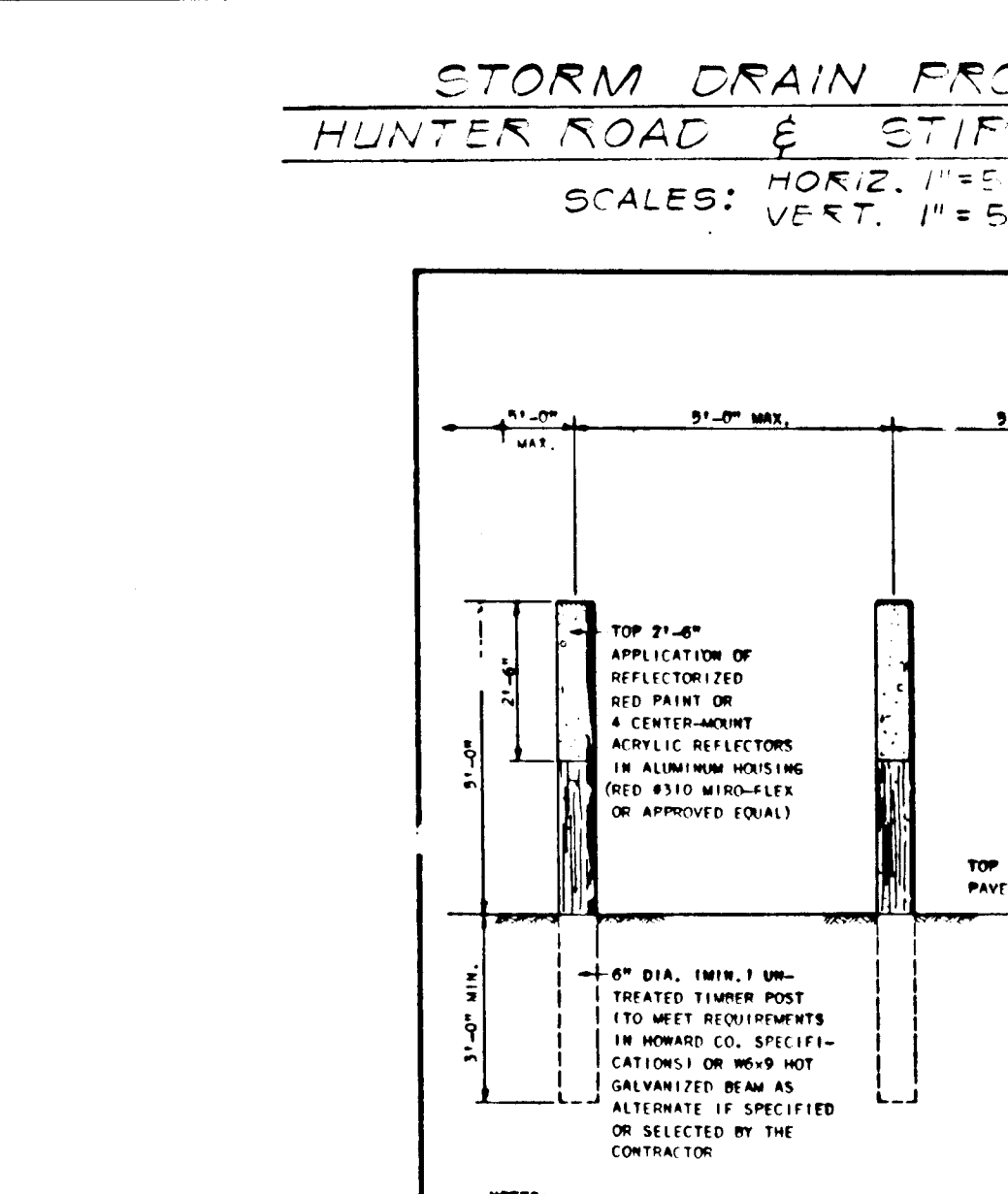
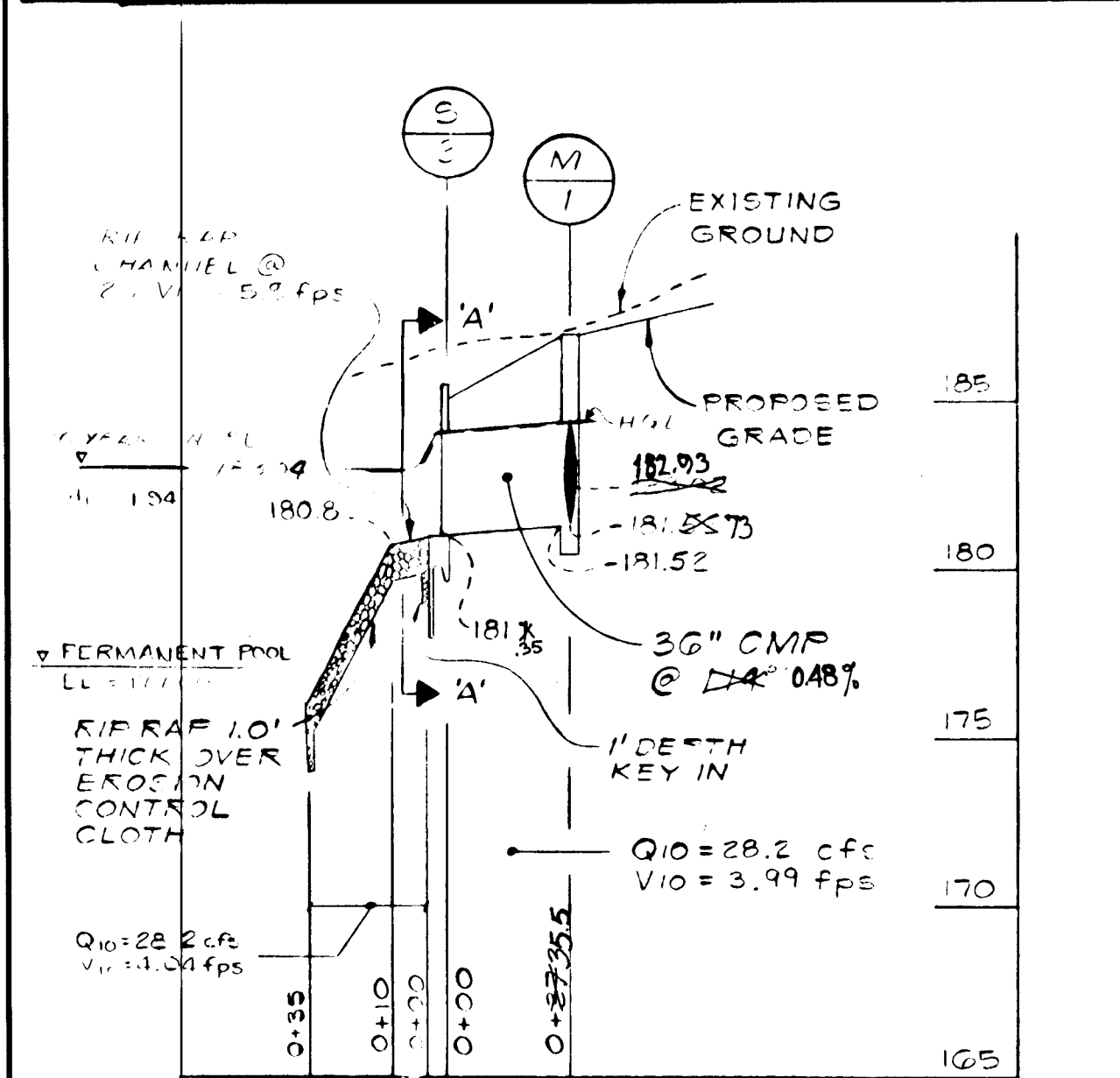
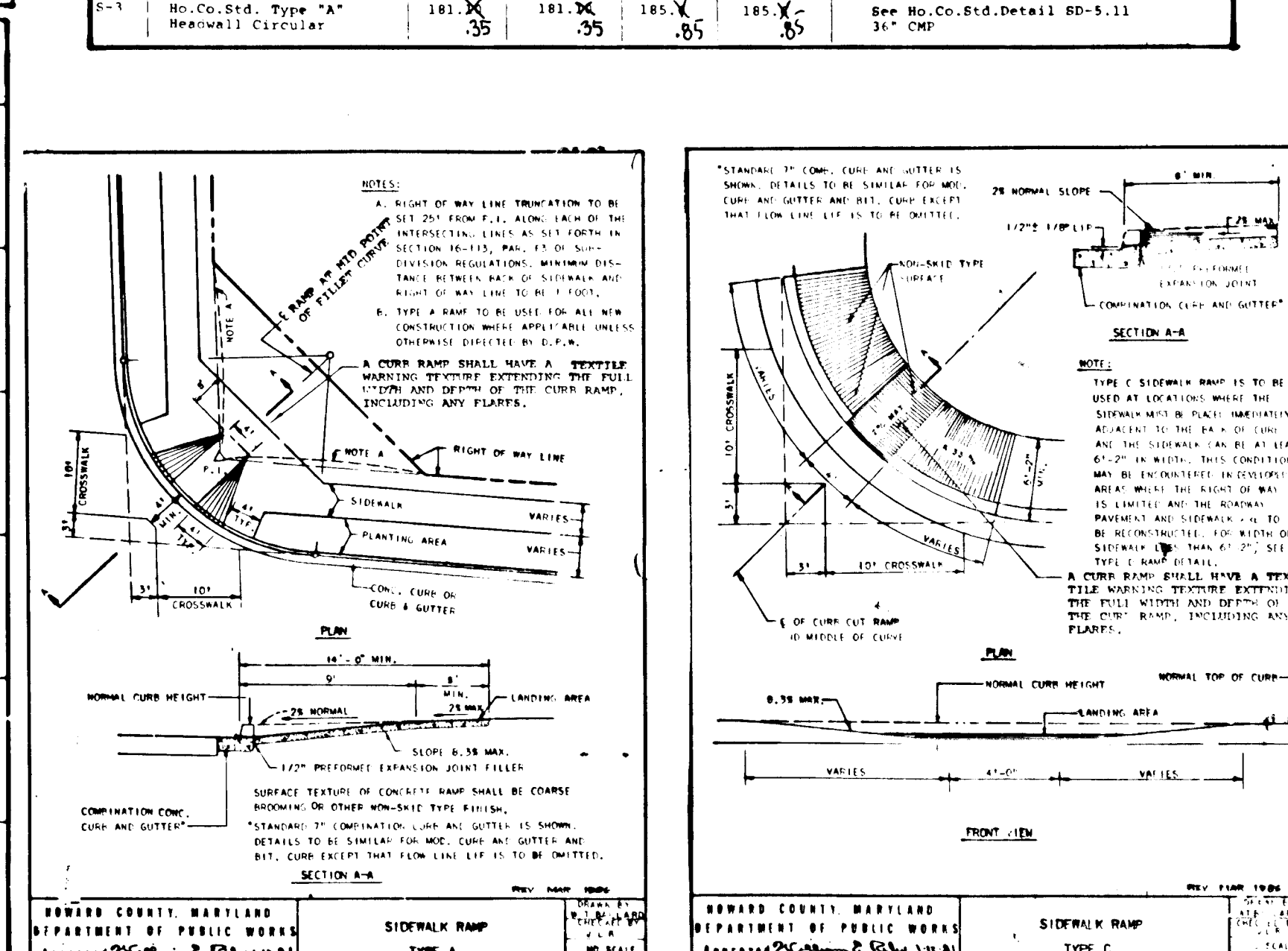


NO.	TYPE	INV. IN	INV. OUT	DIFF. TOP EL.	DIFF. BOT EL.	REMARKS
1-1	No. Co. Std. Type A-5	187.75	187.75	194.00	194.00	See No. Co. Std. Detail SD-4.01
1-2	No. Co. Std. Type A-10 Inlet	189.81	189.81	194.75	194.75	(Depressed) See No. Co. Std. Detail SD-4.02
1-3	No. Co. Std. Type A-5 Inlet	193.74	193.74	199.70	199.70	See No. Co. Std. Detail SD-4.01
1-4	No. Co. Std. Type A-10 Inlet	194.86	194.86	199.70	199.70	(Depressed) See No. Co. Std. Detail SD-4.02
1-5	No. Co. Std. Type A-5 Inlet	196.54	196.54	200.74	200.74	(Depressed) See No. Co. Std. Detail SD-4.01
1-6	No. Co. Std. Type A-5 Inlet	218.74	218.74	223.70	223.70	(With Deflector) See No. Co. Std. Detail SD-4.01 & SD-4.83
1-7	No. Co. Std. Type A-5 Inlet	222.77	222.77	223.70	223.70	(With Deflector) See No. Co. Std. Detail SD-4.01 & SD-4.83
1-8	No. Co. Std. Type A-10 Inlet	185.87	185.87	189.70	189.70	(Depressed) See No. Co. Std. Detail SD-4.02
1-9	No. Co. Std. Type A-5 Inlet	181.75	181.75	187.45	187.45	(Depressed) See No. Co. Std. Detail SD-4.01
M-1	No. Co. Std. Precast Manhole	181.52	181.52	187.0	187.0	See No. Co. Std. Detail GS-11
M-2	No. Co. Std. Precast Manhole	181.75	181.75	187.0	187.0	See No. Co. Std. Detail GS-11
M-3	No. Co. Std. Precast Manhole	183.74	183.74	187.0	187.0	See No. Co. Std. Detail GS-11
M-4	No. Co. Std. Precast Manhole	191.86	191.86	194.83	194.83	See No. Co. Std. Detail GS-11
M-5	No. Co. Std. Precast Manhole	201.74	201.74	205.83	205.83	See No. Co. Std. Detail GS-12
M-6	No. Co. Std. Precast Manhole	185.45	185.45	189.83	189.83	See No. Co. Std. Detail GS-12
S-1	No. Co. Std. Type "A"	174.00	174.00	177.50	177.50	See No. Co. Std. Detail S-11
S-2	Fabricated Aluminum River	180.00	174.00	180.58	180.58	See Detail Sheet 8 of 10
S-3	No. Co. Std. Type "A" Manhole Circular	181.75	181.75	185.83	185.83	See No. Co. Std. Detail SD-5.11 36" CMP

HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS  
Approved: [Signature] Date: [Date]  
Chief: Bureau of Engineering



NO.	TYPE	INV. IN	INV. OUT	DIFF. TOP EL.	DIFF. BOT EL.	REMARKS
1-1	No. Co. Std. Type A-5	187.75	187.75	194.00	194.00	See No. Co. Std. Detail SD-4.01
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1-6	No. Co. Std. Type A-5 Inlet	218.74	218.74	223.70	223.70	(With Deflector) See No. Co. Std. Detail SD-4.01 & SD-4.83
1-7	No. Co. Std. Type A-5 Inlet	222.77	222.77	223.70	223.70	(With Deflector) See No. Co. Std. Detail SD-4.01 & SD-4.83
1-8	No. Co. Std. Type A-10 Inlet	185.87	185.87	189.70	189.70	(Depressed) See No. Co. Std. Detail SD-4.02
1-9	No. Co. Std. Type A-5 Inlet	181.75	181.75	187.45	187.45	(Depressed) See No. Co. Std. Detail SD-4.01
M-1	No. Co. Std. Precast Manhole	181.52	181.52	187.0	187.0	See No. Co. Std. Detail GS-11
M-2	No. Co. Std. Precast Manhole	181.75	181.75	187.0	187.0	See No. Co. Std. Detail GS-11
M-3	No. Co. Std. Precast Manhole	183.74	183.74	187.0	187.0	See No. Co. Std. Detail GS-11
M-4	No. Co. Std. Precast Manhole	191.86	191.86	194.83	194.83	See No. Co. Std. Detail GS-11
M-5	No. Co. Std. Precast Manhole	201.74	201.74	205.83	205.83	See No. Co. Std. Detail GS-12
M-6	No. Co. Std. Precast Manhole	185.45	185.45	189.83	189.83	See No. Co. Std. Detail GS-12
S-1	No. Co. Std. Type "A"	174.00	174.00	177.50	177.50	See No. Co. Std. Detail S-11
S-2	Fabricated Aluminum River	180.00	174.00	180.58	180.58	See Detail Sheet 8 of 10
S-3	No. Co. Std. Type "A" Manhole Circular	181.75	181.75	185.83	185.83	See No. Co. Std. Detail SD-5.11 36" CMP



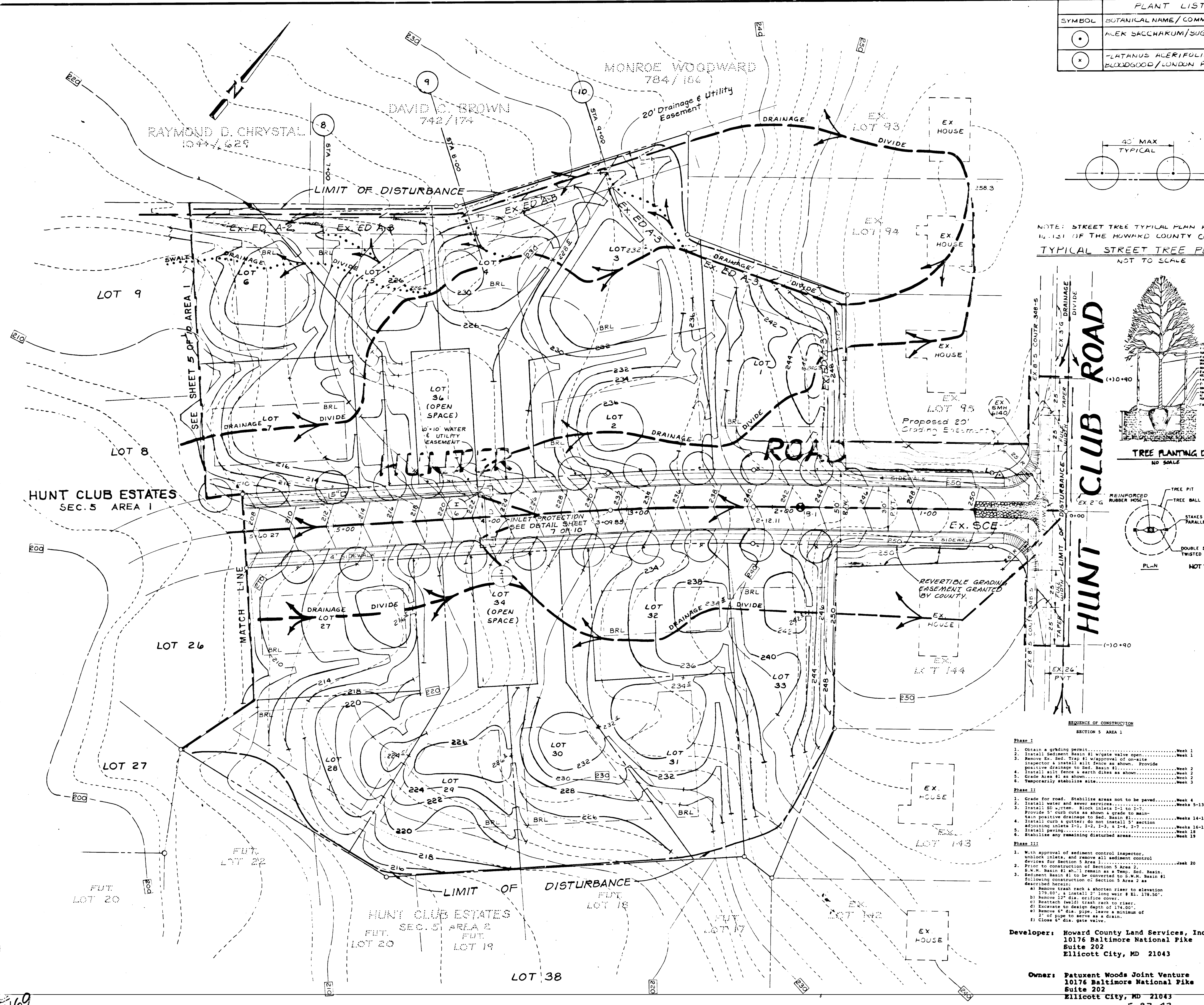
OWNER'S/DEVELOPER'S CERTIFICATION  
"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."  
Signature: [Signature] Date: [Date]  
Name: [Name] Title: [Title] Phone No.: [Phone No.]  
Firm: [Firm] Complete Address: [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."  
Signature: [Signature] Date: [Date]  
Name: JOHN E.C. PATMORE Title: [Title] Phone No.: [Phone No.]  
Firm: [Firm] Complete Address: [Address]  
Registered Professional Engineer # 2973

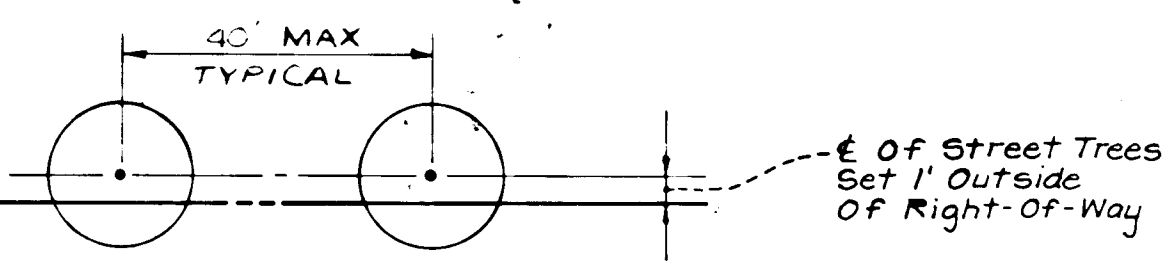
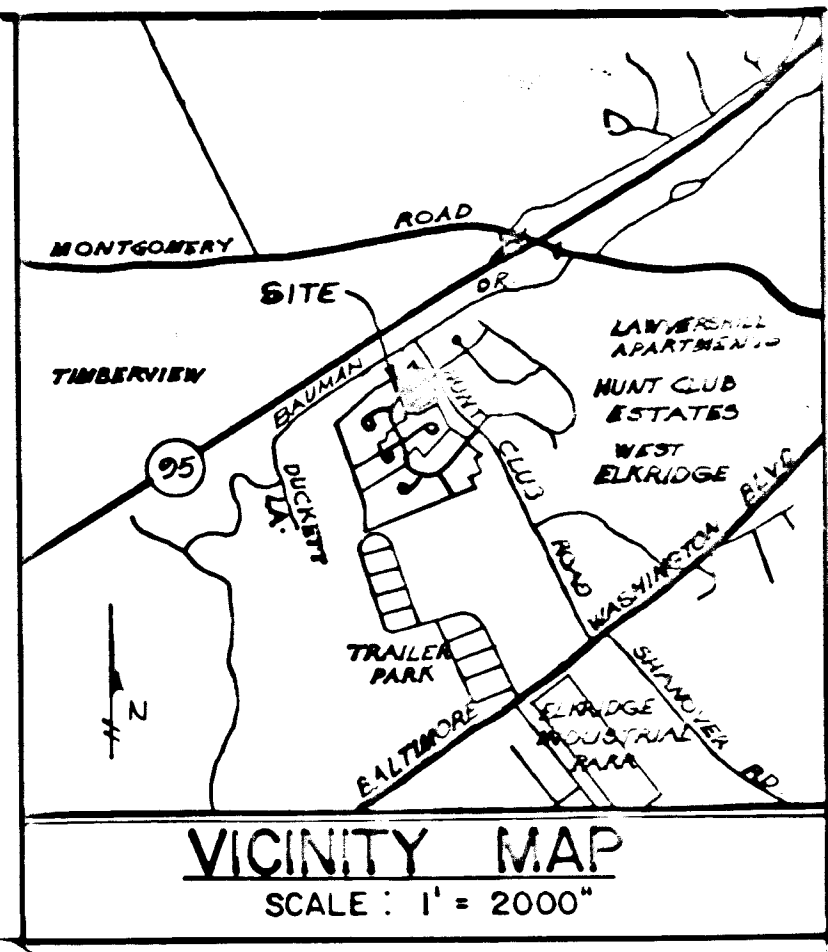
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
Signature: [Signature] Date: 3-27-87  
U.S. SOIL CONSERVATION SERVICE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Signature: [Signature] Date: 3-27-87  
Approved: Howard S.C.D.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
Signature: [Signature] Date: 3-31-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Signature: [Signature] Date: 3-30-87  
CHIEF, BUREAU OF ENGINEERING

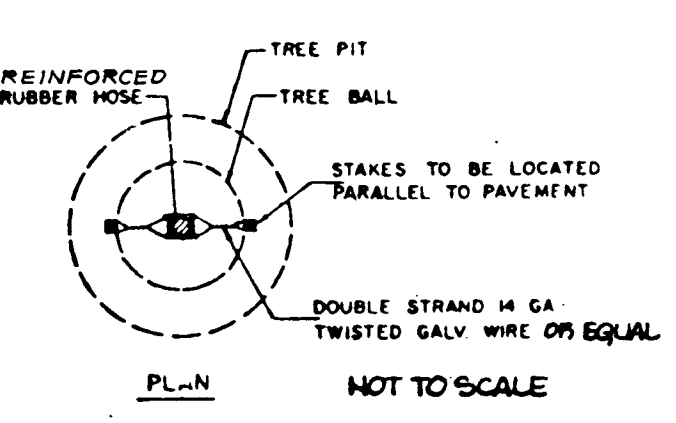
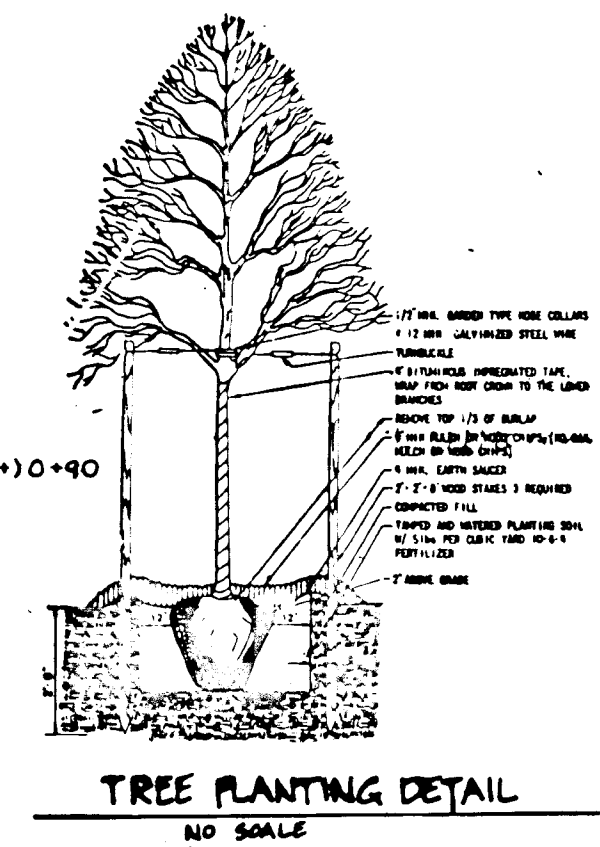
Developer: Howard County Land Services, Inc.  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043  
Owner: Patuxent Woods Joint Venture  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043  
STORM DRAIN PROFILES & DETAIL SHEET FOR HUNT CLUB ESTATES LOTS 1 thru 38 SECTION 5 AREA 1 TAX MAP NO. 38 PARCEL 515 1ST ELECTION DISTRICT HOWARD COUNTY, MD SHEET 3 OF 10  
KIDDE CONSULTANTS, INC.  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET / SUITE 100 / LAUREL MD 20707  
(Wash.) (301) 953-1821 / 782-8086 (Beth)  
Signature: [Signature] Date: AUG. 1986 SCALE AS SHOWN



PLANT LIST		
SYMBOL	BOTANICAL NAME / COMMON NAME	QUANTITY
○	ALEX SACCHARUM / SUGAR MAPLE	31
⊗	PLATANUS ALERIFOLIA BLOODGOOD / LONDON PLANETREE	29



NOTE: STREET TREE TYPICAL PLAN PER SECTION 14.121 OF THE HOWARD COUNTY CODE  
TYPICAL STREET TREE PLANTING  
NOT TO SCALE



AS-BUILT SURVEY CERTIFIED BY  
DONALD B. SACKETT, Md. L.S. NO.  
6059 ON 5-26-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*John M. Murrain* 3-27-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John E. Patmore* 3-27-87  
CHIEF, BUREAU OF ENGINEERING

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*John M. Murrain* 3-27-87  
SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John E. Patmore* 3-27-87  
Approved Howard S.C.D. DATE

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."  
*John E. Patmore* 3/27/86  
JOHN E.C. PATMORE Date  
Registered Professional Engineer #8978

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: *John E. Patmore* Date: 3/27/87  
Name: *John E. Patmore* Title: *Professional Engineer* Phone No.:  
Firm: *Kidde Consultants, Inc.* Complete Address:

**GRADING, SEDIMENT CONTROL, STORMWATER MANAGEMENT & TREE PLANTING PLAN.**

HUNT CLUB ESTATES  
LOTS 1 thru 38  
SECTION 5 AREA 1  
TAX MAP NO. 38 PARCEL 515  
1ST ELECTION DISTRICT HOWARD COUNTY, MD  
SHEET 4 OF 10

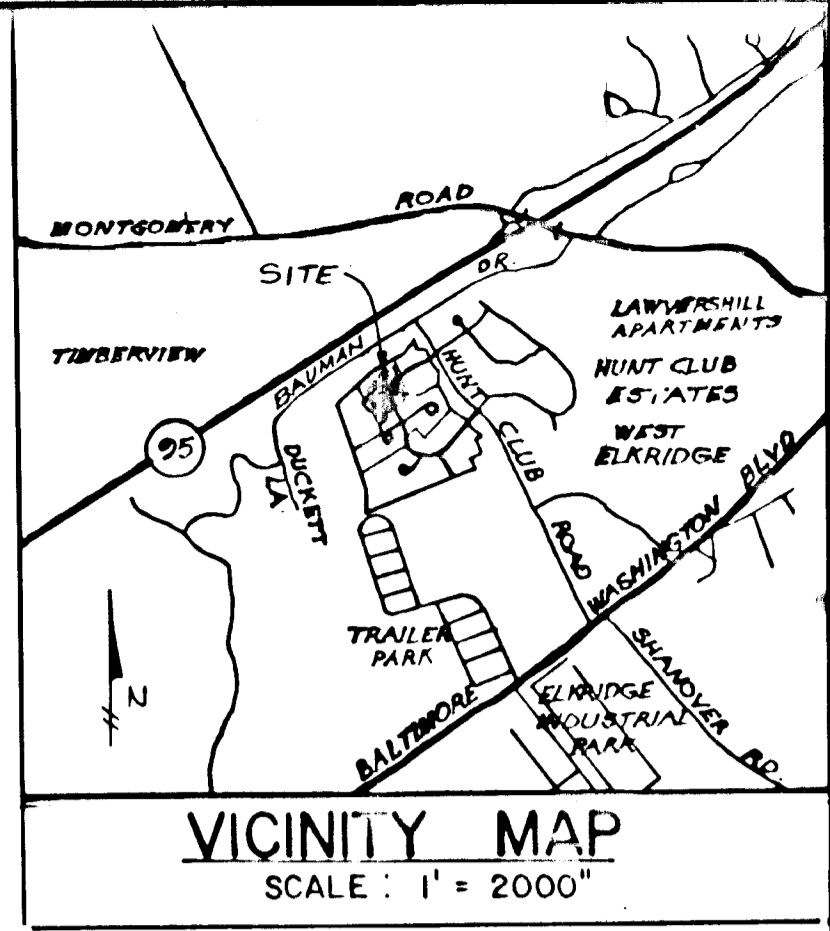
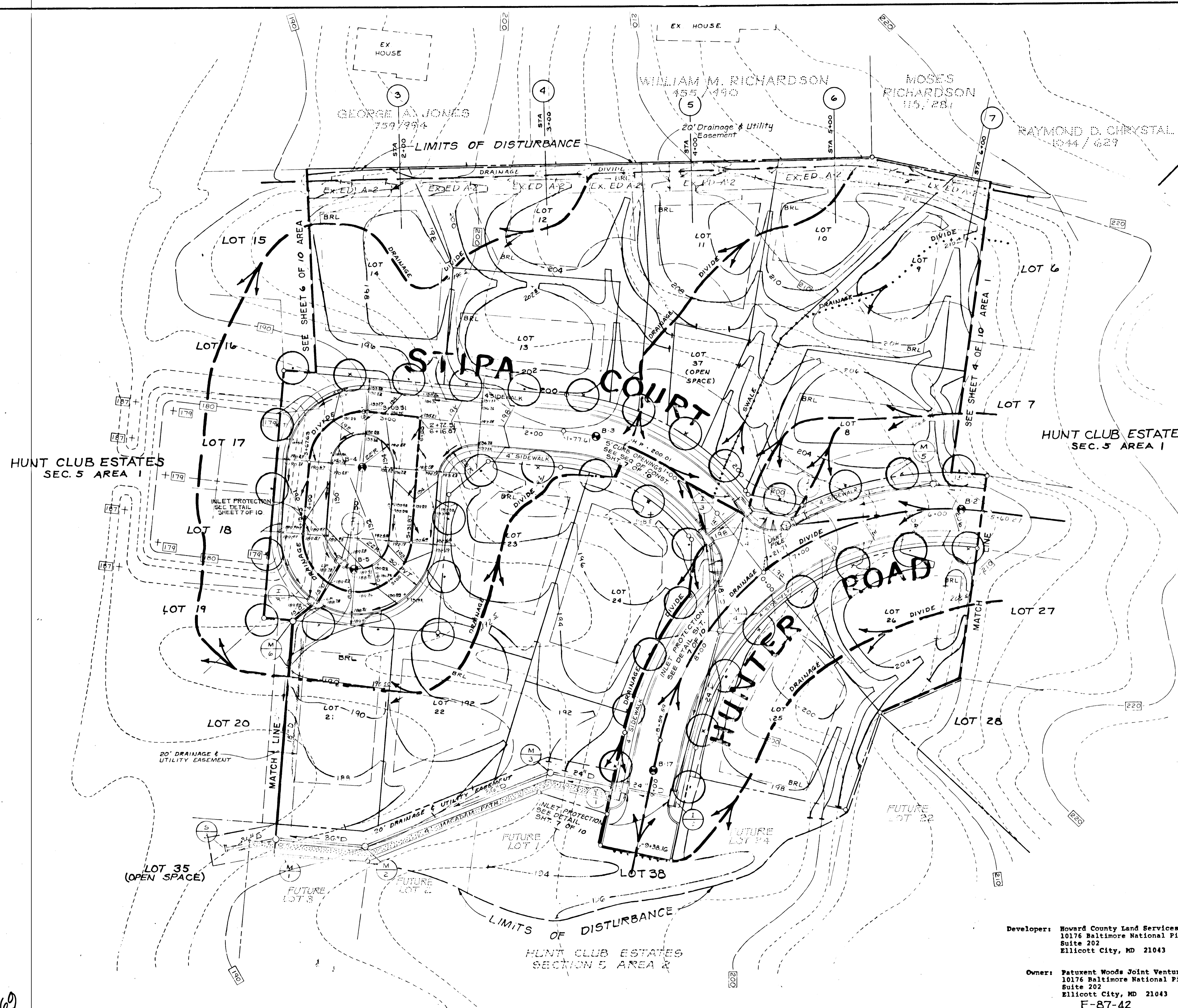
**KIDDE CONSULTANTS, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707  
(Wash.) (301) 953-1821 / 792-8086 (Balt.)

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ BY: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DATE: AUG 1986 SCALE: 1" = 30'

1684151

- SEQUENCE OF CONSTRUCTION SECTION 5 AREA 1
- Phase I
1. Obtain a grading permit. ....Week 1
  2. Install sediment basin #1 with gate valve open. ....Week 1
  3. Remove ex. sed. trap #1 w/ approval of owner. ....Week 1
  4. Inspect & install all pipe as shown. Provide positive drainage to sed. basin #1. ....Week 2
  5. Grade Area #1 as shown. ....Week 2
  6. Appropriately stabilize site. ....Week 3
- Phase II
1. Grade for road. Stabilize areas not to be paved. ....Week 4
  2. Install water and sewer services. ....Weeks 5-13
  3. Install 50' dia. manhole inlets 2'-0" to 2'-6". Provide 5' curb cuts as shown. Grade to main. ....Weeks 14-15
  4. Install all trench & earth dikes as shown. ....Weeks 14-15
  5. Install curb & gutters do not install 5' section adjacent to curb. ....Weeks 14-17
  6. Install paving. ....Week 18
  7. Stabilize any remaining disturbed areas. ....Week 19
- Phase III
1. With approval of sediment control inspector, unblock inlets, and remove all sediment control devices for Section 5 Area 1. ....Week 20
  2. Prior to construction of Section 5 Area 2, S.W. Basin #1 shall remain as a Prec. Sed. Basin. Sediment Basin #1 to be converted to S.W. Basin #1 following construction of Section 5 Area 2 as described herein:
    - a) Remove trash rack & shorten riser to elevation 175.00'. Install 2' long weir # B1. 175.50'.
    - b) Remove 12" dia. utility cover.
    - c) Reattach (old) trash rack to riser.
    - d) Excavate to design depth of 174.00'.
    - e) Remove 6" dia. pipe, leave a minimum of 2' of pipe to serve as a drain.
    - f) Close 6" dia. gate valve.
- Developer: Howard County Land Services, Inc.  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043
- Owner: Fatulent Woods Joint Venture  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043



AS-BUILT SURVEY CERTIFIED BY  
DONALD B. SACKETT, MD, L.S. NO.  
6052 ON 5-26-82

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*John M. Muschman* 3-21-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John E. Patmore* 3-20-87  
CHIEF, BUREAU OF ENGINEERING DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*John M. Hahn* 3-27-87  
SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Robert J. Zieher* 3-27-87  
Approved Howard S.C.D. DATE

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."  
*John E. Patmore* 3-27-87  
JOHN E.C. PATMORE Date  
Registered Professional Engineer # 8978

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 *John E. Patmore* Date 3-27-87  
Name *John E. Patmore* Title *Professional Engineer* Phone No. *301-278-1111*  
Firm *John E. Patmore & Associates, Inc.* Complete Address *10176 Baltimore National Pike, Suite 202, Ellicott City, MD 21043*

GRADING, SEDIMENT CONTROL, STORMWATER MANAGEMENT & TREE PLANTING PLAN.

FOR  
HUNT CLUB ESTATES  
LOTS 1 thru 38  
SECTION 5 AREA 1  
TAX MAP NO. 38 PARCEL 515  
1ST ELECTION DISTRICT HOWARD COUNTY, MD  
SHEET 5 OF 10

Developer: Howard County Land Services, Inc.  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043

Owner: Patuxent Woods Joint Venture  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043  
F-87-42

**RIDD CONSULTANTS, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707  
(Wash.) (301) 953-1821 / 792-8066 (Balt.)

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
DESIGNED BY: KCI  
COMMITTED BY: M.S.S.  
DRAWN BY: KCI  
CHECKED BY: D.C.W.  
1684151

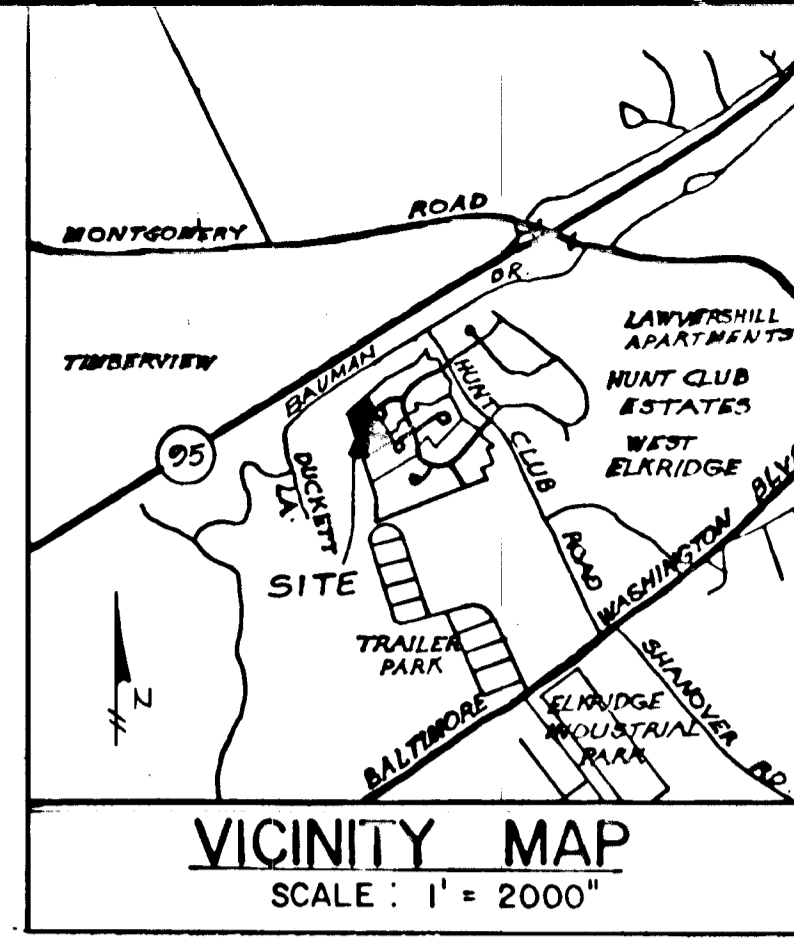
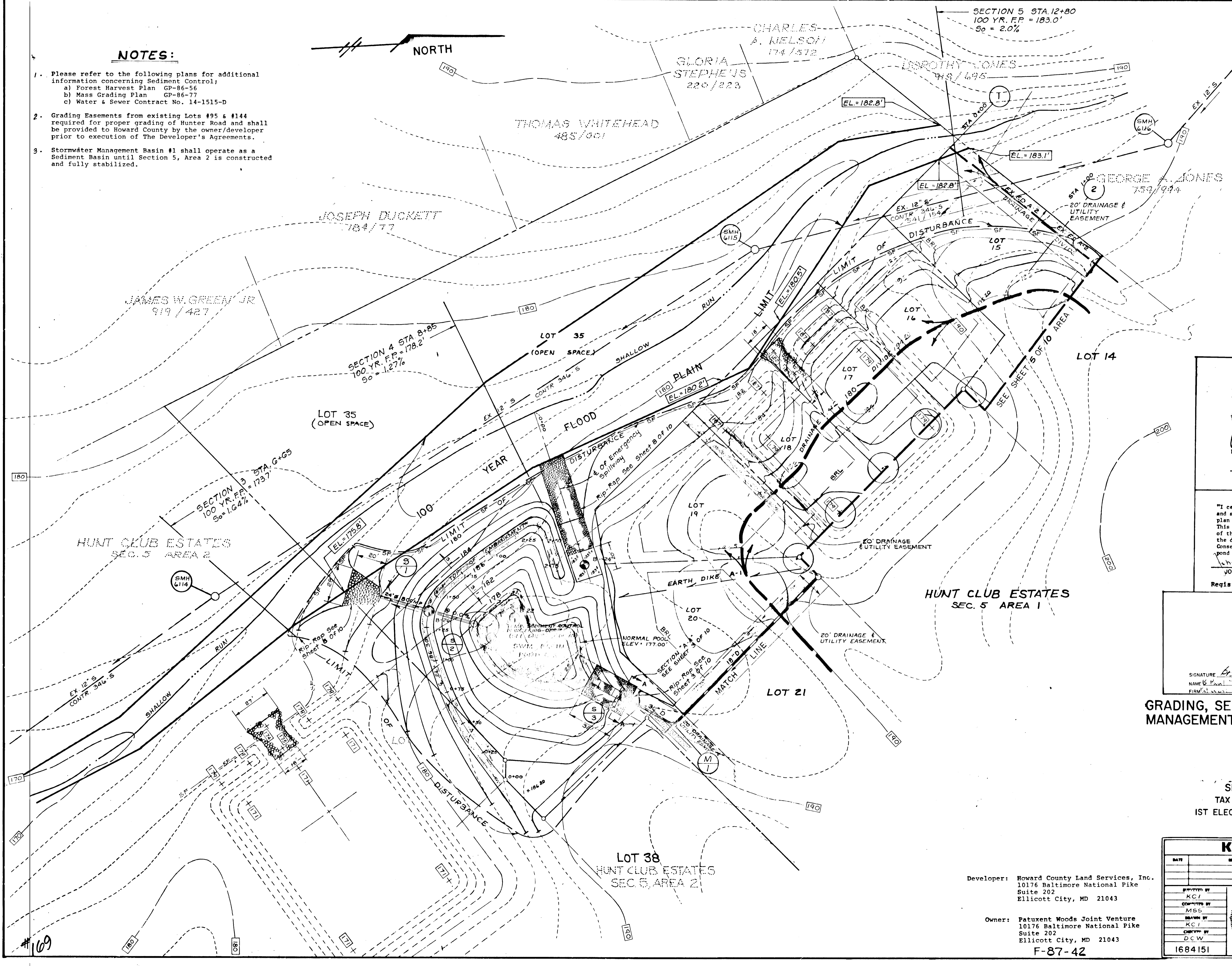
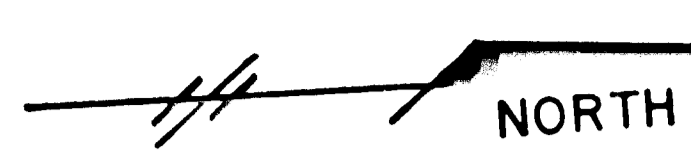
STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
*John E. Patmore*  
JOHN E.C. PATMORE MD PE 8978  
DATE AUG. 1986 SCALE 1" = 30'

F169

AS-BUILT 5-26-89

**NOTES:**

- Please refer to the following plans for additional information concerning Sediment Control;
  - Forest Harvest Plan GP-86-56
  - Mass Grading Plan GP-86-77
  - Water & Sewer Contract No. 14-1515-D
- Grading Easements from existing Lots #95 & #144 required for proper grading of Hunter Road and shall be provided to Howard County by the owner/developer prior to execution of The Developer's Agreements.
- Stormwater Management Basin #1 shall operate as a Sediment Basin until Section 5, Area 2 is constructed and fully stabilized.



AS-BUILT SURVEY CERTIFIED BY  
DONALD B. SACKETT MD. L.S. NO.  
6052 ON 5-26-87.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*John M. Muechler* 3-31-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John E. Patmore* 3-30-87  
CHIEF, BUREAU OF ENGINEERING DATE

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.  
*John E. Patmore* 3-27-87  
U.S. Soil Conservation Service DATE

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.  
*John E. Patmore* 3-27-87  
Howard Soil Conservation District DATE

**ENGINEERS CERTIFICATE**  
"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."  
*John E. Patmore* 3/27/87  
JOHN E.C. PATMORE DATE  
Registered Professional Engineer #8978

**OWNER'S/DEVELOPER'S CERTIFICATION**  
"I/We certify that all development and/or construction will be done according to these plans, 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 will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."  
SIGNATURE *John E. Patmore* DATE 3/27/87  
NAME *John E. Patmore* TITLE *Professional Engineer* PHONE NO. *301-276-7970*  
FIRM *John E. Patmore & Associates, Inc.* COMPLETE ADDRESS *1100 West Street, Suite 100, Laurel, MD 20707*

**GRADING, SEDIMENT CONTROL, STORMWATER MANAGEMENT & TREE PLANTING PLAN.**

FOR  
**HUNT CLUB ESTATES**  
LOTS 1 thru 38  
SECTION 5 AREA 1  
TAX MAP NO. 38 PARCEL 515  
1ST ELECTION DISTRICT HOWARD COUNTY, MD  
SHEET 6 OF 10

**KIDDE CONSULTANTS, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707  
(Wash.) (301) 953-1821 / 782-8086 (Rt. 1)

APPROVED BY: *John E. Patmore*  
FOR: *John E. Patmore*  
DATE: AUG 1986 SCALE: 1" = 30'

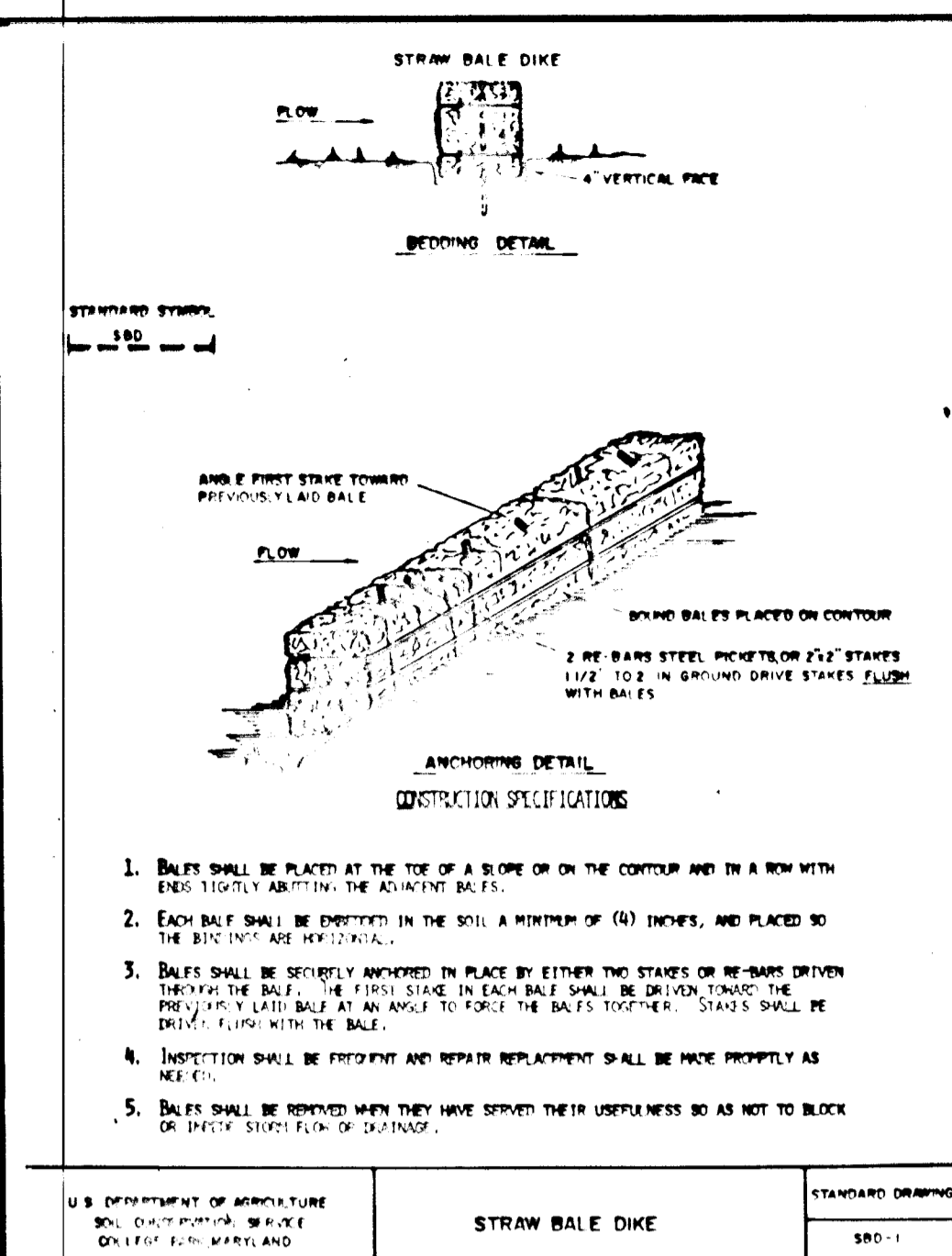
1684151

Developer: Howard County Land Services, Inc.  
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Ellicott City, MD 21043

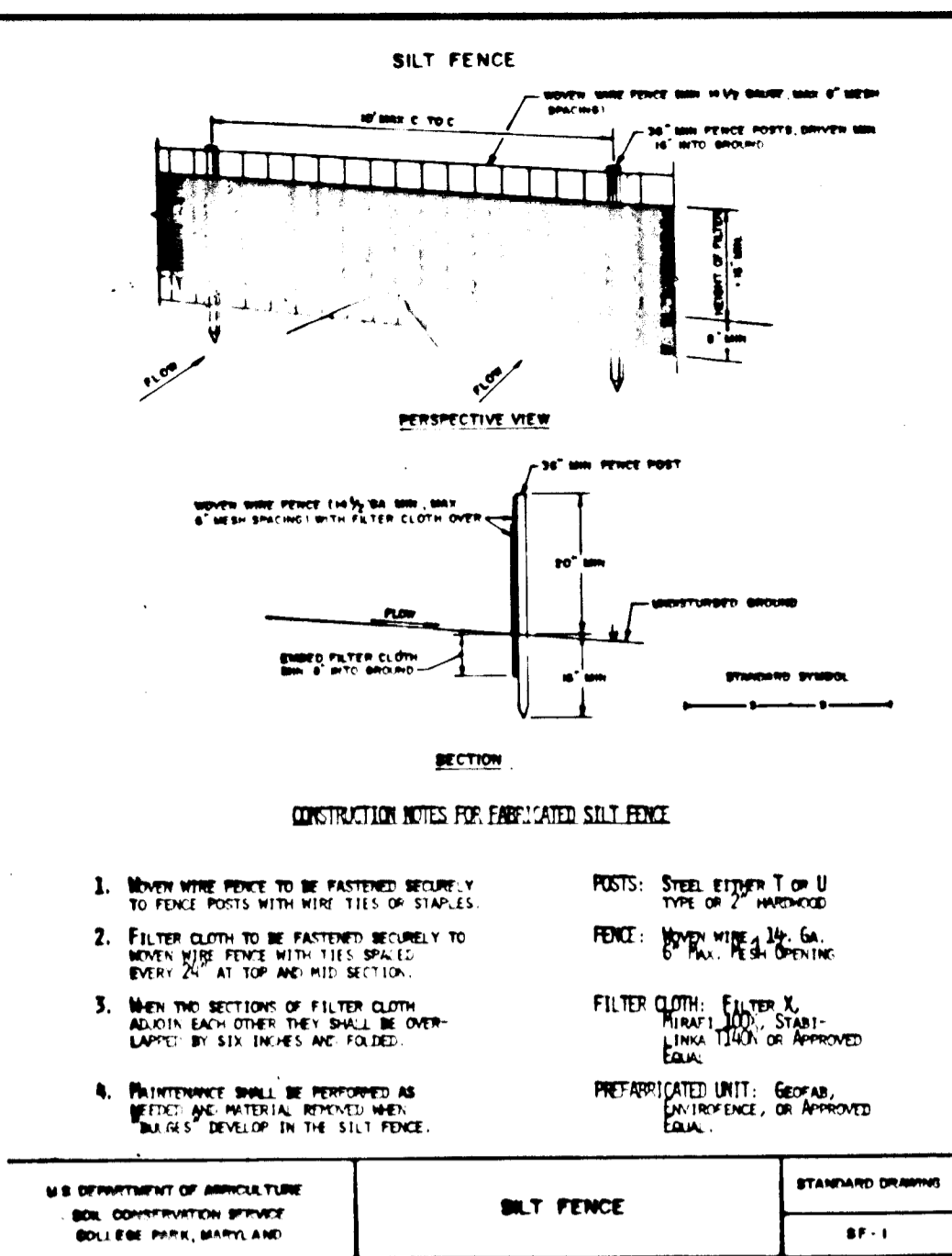
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F-87-42

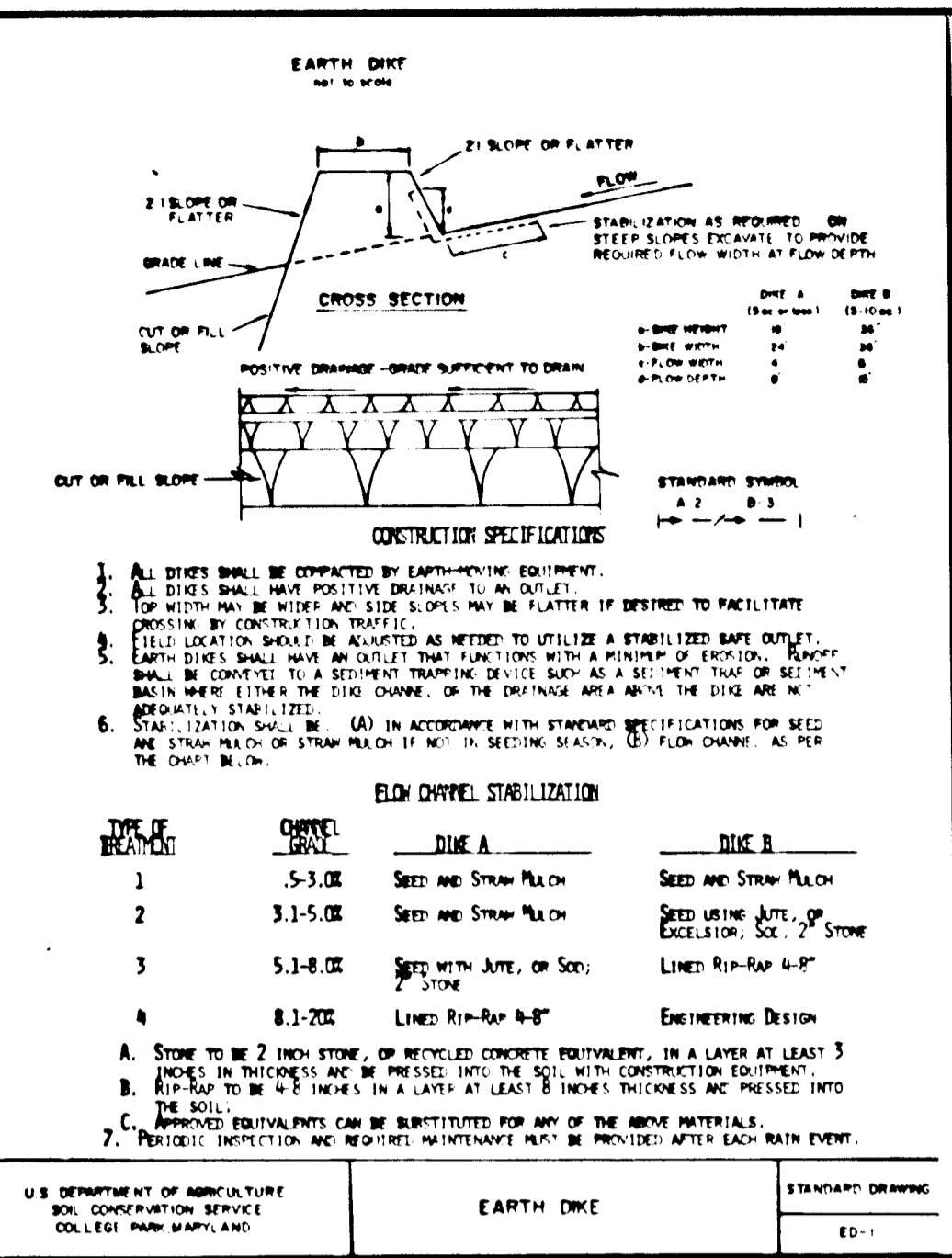
AS-BUILT 5-26-89



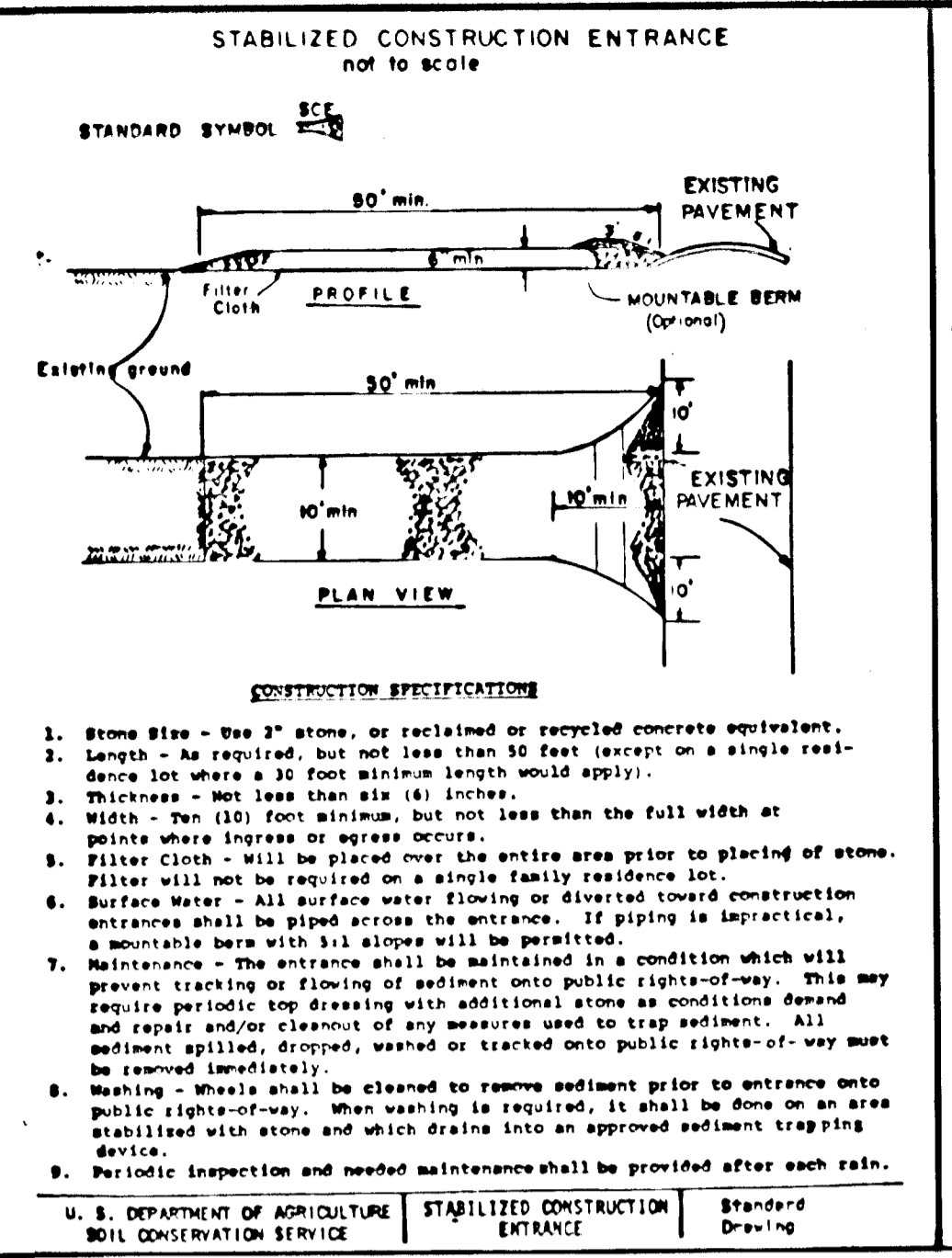
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SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



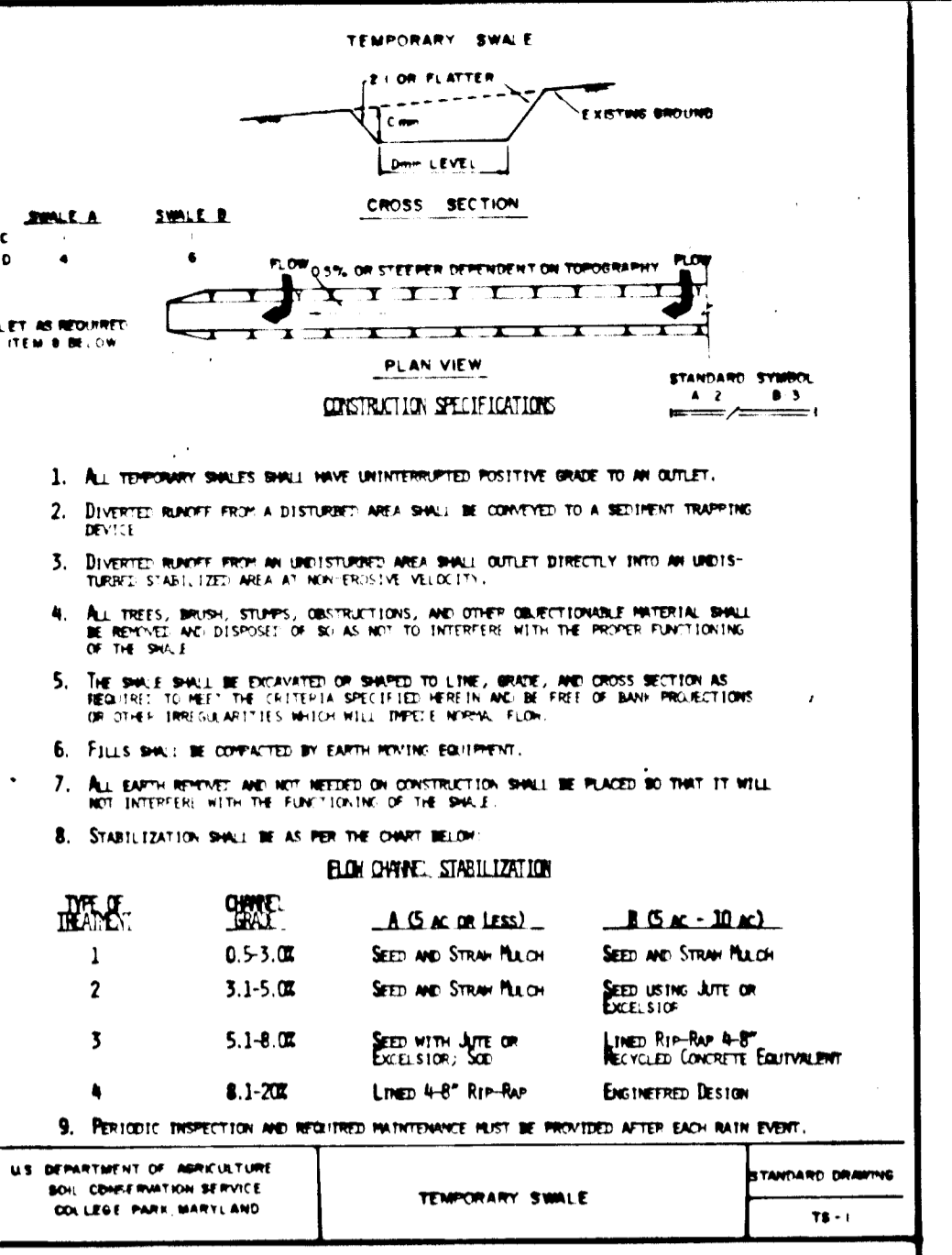
U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

**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 alternatives:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (23 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 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 seed. 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 gallons per acre (3 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.

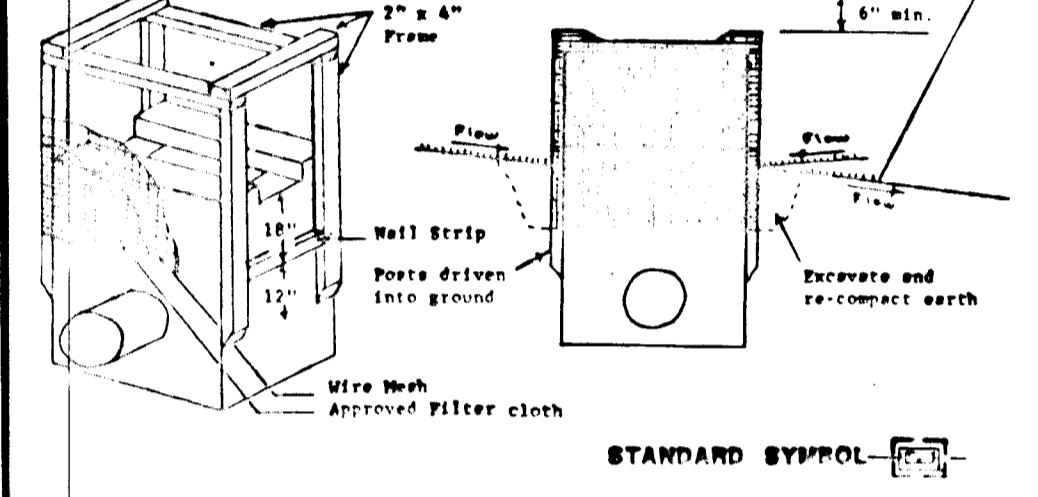
**Seeding Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**Soil Amendments:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

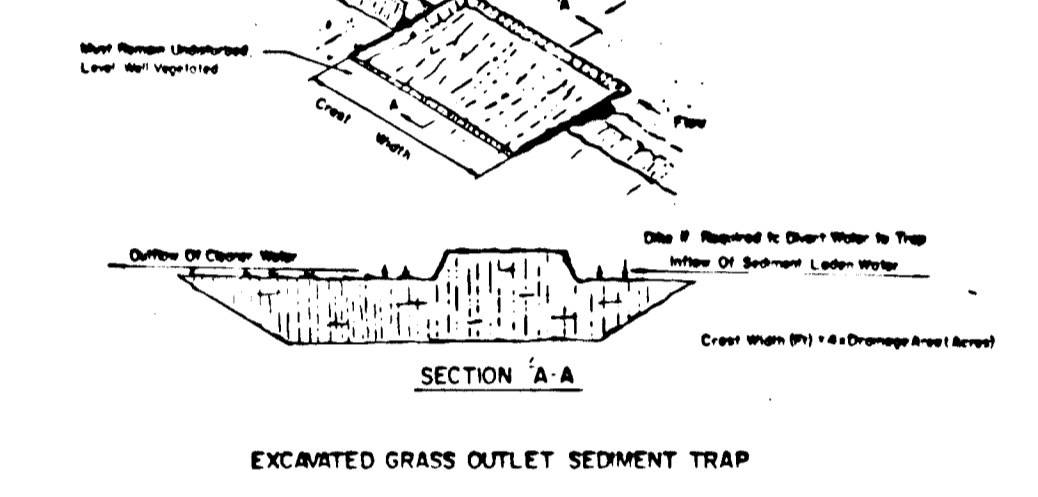
**Seeding -** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 75 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 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 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 (3 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.

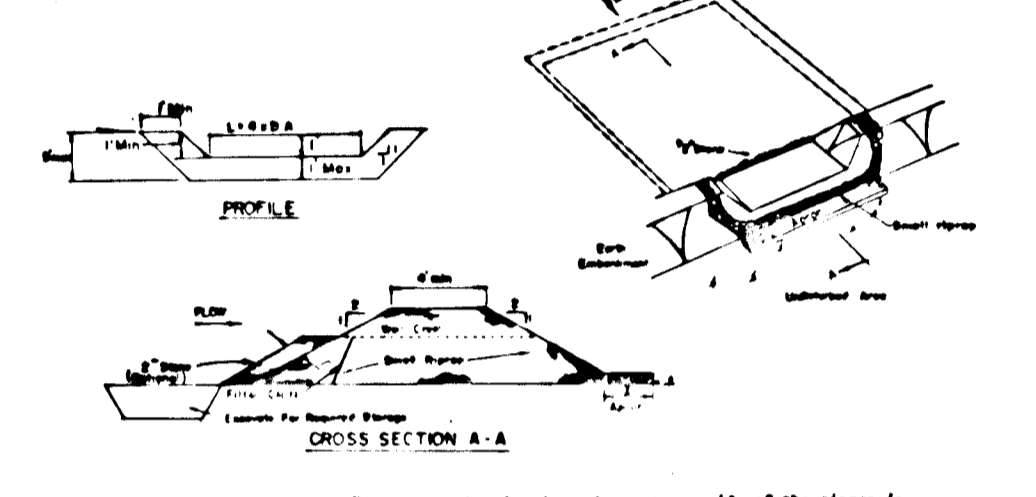
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



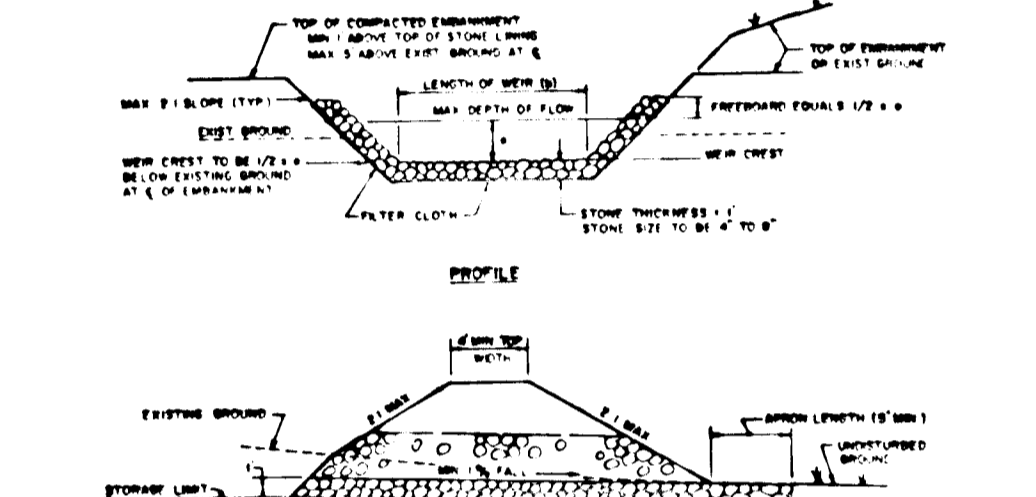
U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



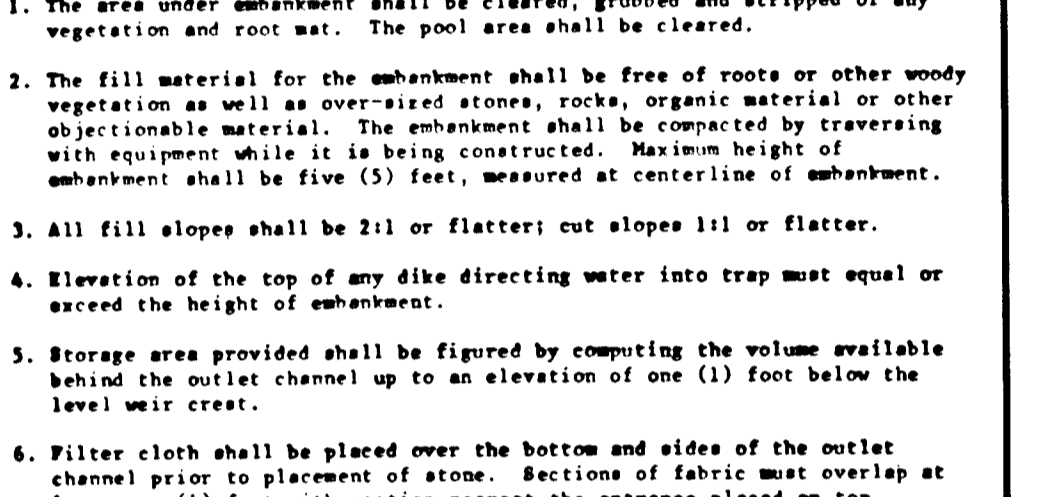
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SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

**SEEDING 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 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.

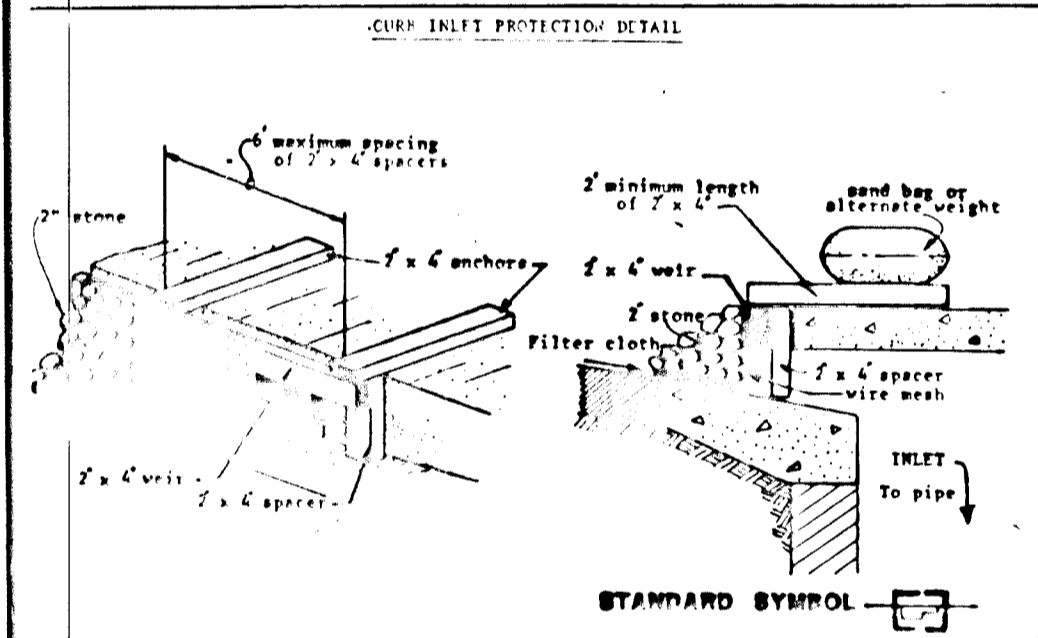
7) Site Analysis:

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	16.0
12	2.0	16.0
13	2.0	16.0
14	2.0	16.0
15	2.0	18.0

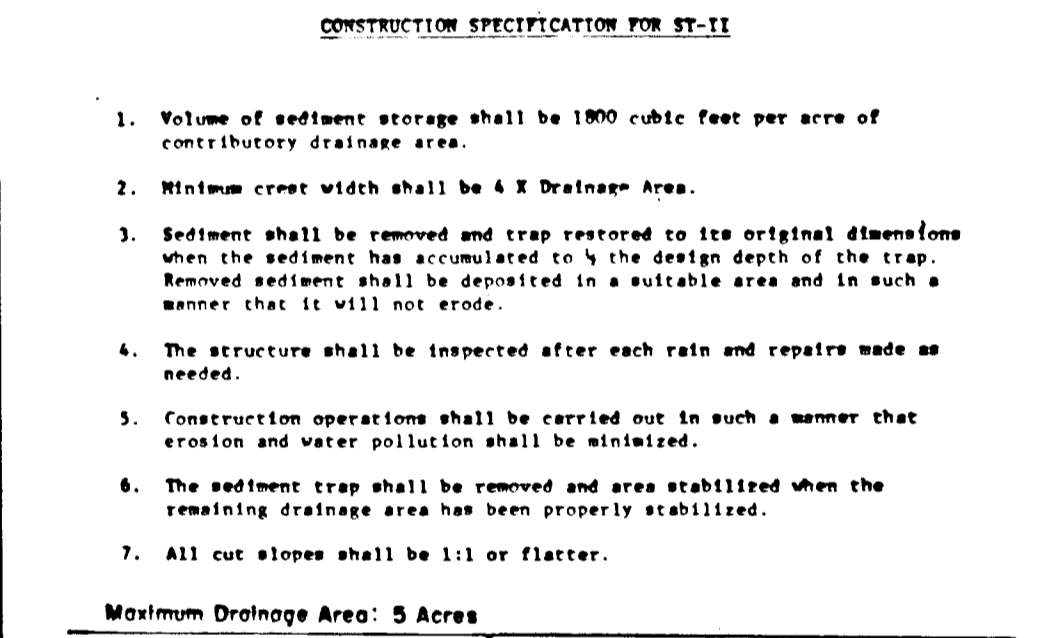
8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9) TO BE PROVIDED BY OWNER/DEVELOPER

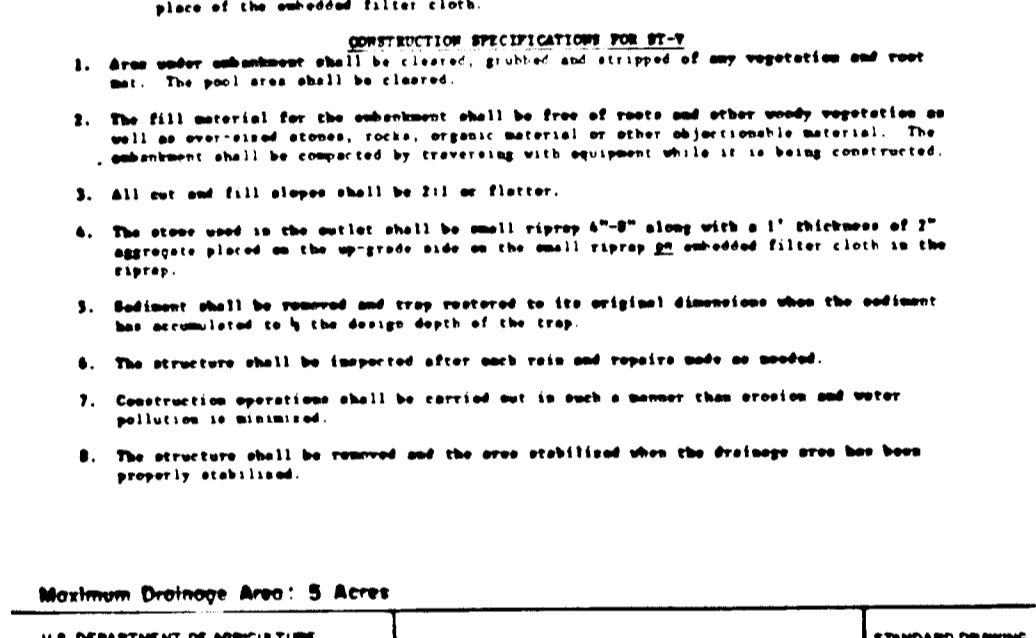
Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.



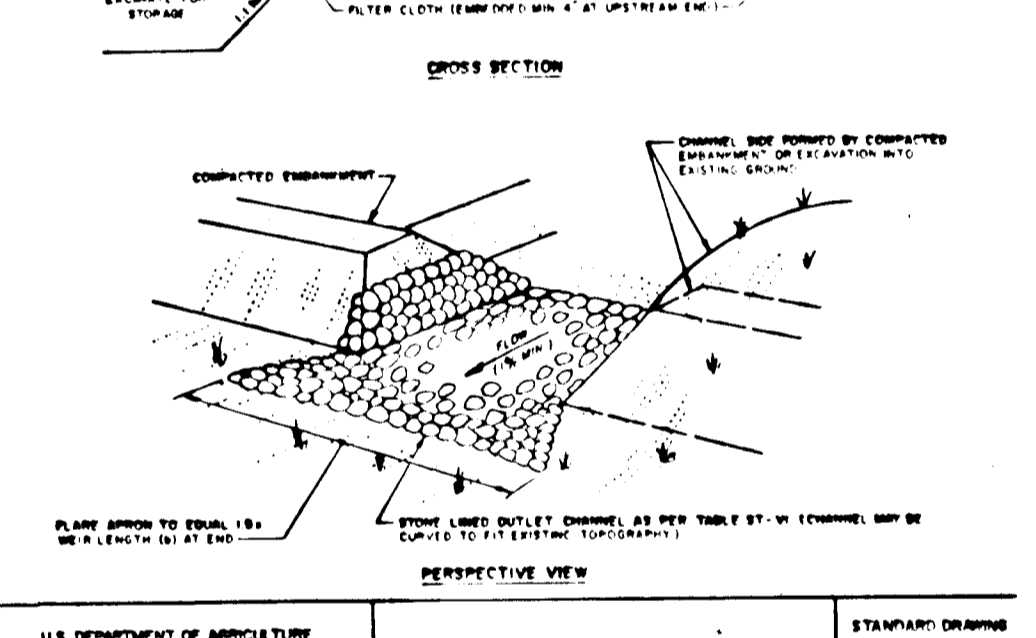
U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



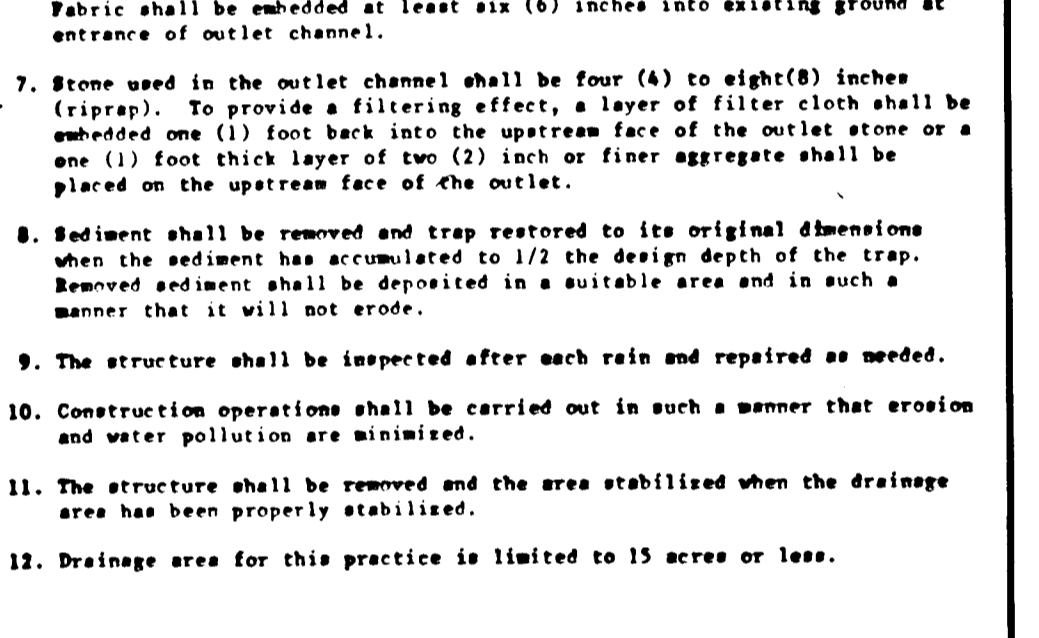
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SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

**SEDIMENT BASIN DOWATERING DEVICE**

NO SCALE

ANTI-VORTEX DEVICE  
CONTROL ROD HANDLE FOR MANUAL OPERATION OF GATE VALVE  
100' MARKER PIPE DRIVEN 1' INTO GROUND  
CREST ELEV. = 180.30'  
1" PERFORATIONS  
MIN. 6" GMP  
FILTER CLOTH OVER WIRE MESH  
2" STONE CORE CONTINUOUS BAND  
BASE PLATE (1/4" SIZE) 50" PERFORATIONS OR SLITS MUST NOT BE MADE ANY LOWER THAN 3" ABOVE TOP OF THE HORIZONTAL OUTFALL BARREL  
PERFORATIONS - 6" SPACING HORIZONTAL LOCATED IN CONCAVE  
RISER BASE  
6" GATE VALVE  
6" PIPE  
SURVEIL  
24" BCCMP

Top is 10 gage corrugated metal or 17 1/2" steel plate. Pressure relief holes may be omitted, if one of corrugations are left fully open when corrugated top is welded to riser.

Outside is 12 gage corrugated metal pipe or fabricated from 17 1/2" steel plate.

Notes:  
1) The cylinder must be firmly fastened to the top of the riser.  
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

**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**

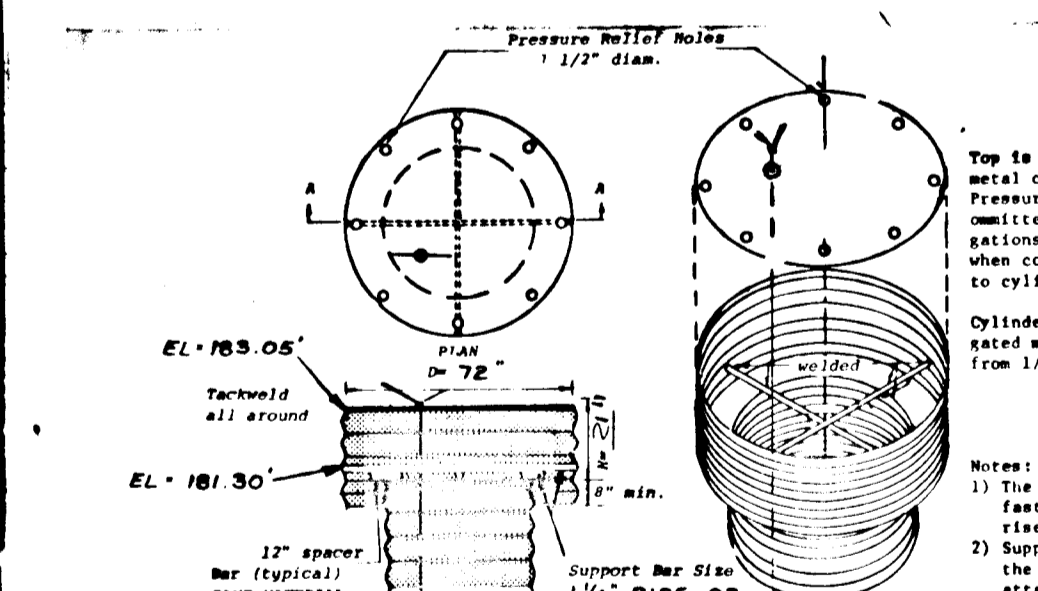
1. Cut plywood to extend a minimum of 6" past throat along curb.
2. Attach to anchors in a secure manner which will insure a water tight fit against throat.
3. Remove carefully using sanding or alternate weight. If not watertight, use approved filter cloth under plywood and attach securely.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for all pond construction, soil erosion and sediment control.

*[Signature]* 3-27-87  
DATE

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*[Signature]* 3-27-87  
DATE



**Conversion of Sediment Basin To Retention Pond**

1. Remove trash rack & shorten riser to elevation 179.00', & install 2' long weir @ EL. 178.50',
2. Remove 12" dia. orifice cover.
3. Reattach (weld) trash rack to riser.
4. Excavate to design depth 174.00'.
5. Remove 6" dia. pipe, leave a minimum of 2' of pipe remaining to operate as a drain.
6. Close 6" dia. gate valve.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*[Signature]* 3-31-87  
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 3-30-87  
DATE

CHIEF, BUREAU OF ENGINEERING

Developer: Howard County Land Services, Inc.  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043

Owner: Patuxent Woods Joint Venture  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DATE: \_\_\_\_\_ DATE: \_\_\_\_\_

DATE: \_\_\_\_\_ DATE: \_\_\_\_\_

OWNER'S / DEVELOPER'S CERTIFICATION

"I certify that all development and construction will be done according to these plans, 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 will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Phone No: \_\_\_\_\_

Firm: \_\_\_\_\_ Complete Address: \_\_\_\_\_

ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as built" plan of the pond within 30 days of completion."

*[Signature]* ABEL  
DATE

JOHN E.C. PATMORE  
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.)

HUNT CLUB ESTATES  
LOTS 1 thru 38  
SECTION 5 AREA 1  
TAX MAP 38 PARCEL 515  
1st ELEC. DIST. HOWARD CO., MD.

Drawing: K.C.I. DATE: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ SHEET: 7 DATE: Aug., 1986 JOB NUMBER: 1684151

Check: K.C.I. DATE: \_\_\_\_\_ OF: 10 SCALE: AS SHOWN F-87-42

Design: B.J. DATE: \_\_\_\_\_

Check: D.C.W. DATE: \_\_\_\_\_

As-BUILT 5-26-89

SOIL CONSERVATION SERVICE  
DISTRICT OFFICE  
CONSTRUCTION DIVISION  
BUREAU OF EROSION CONTROL

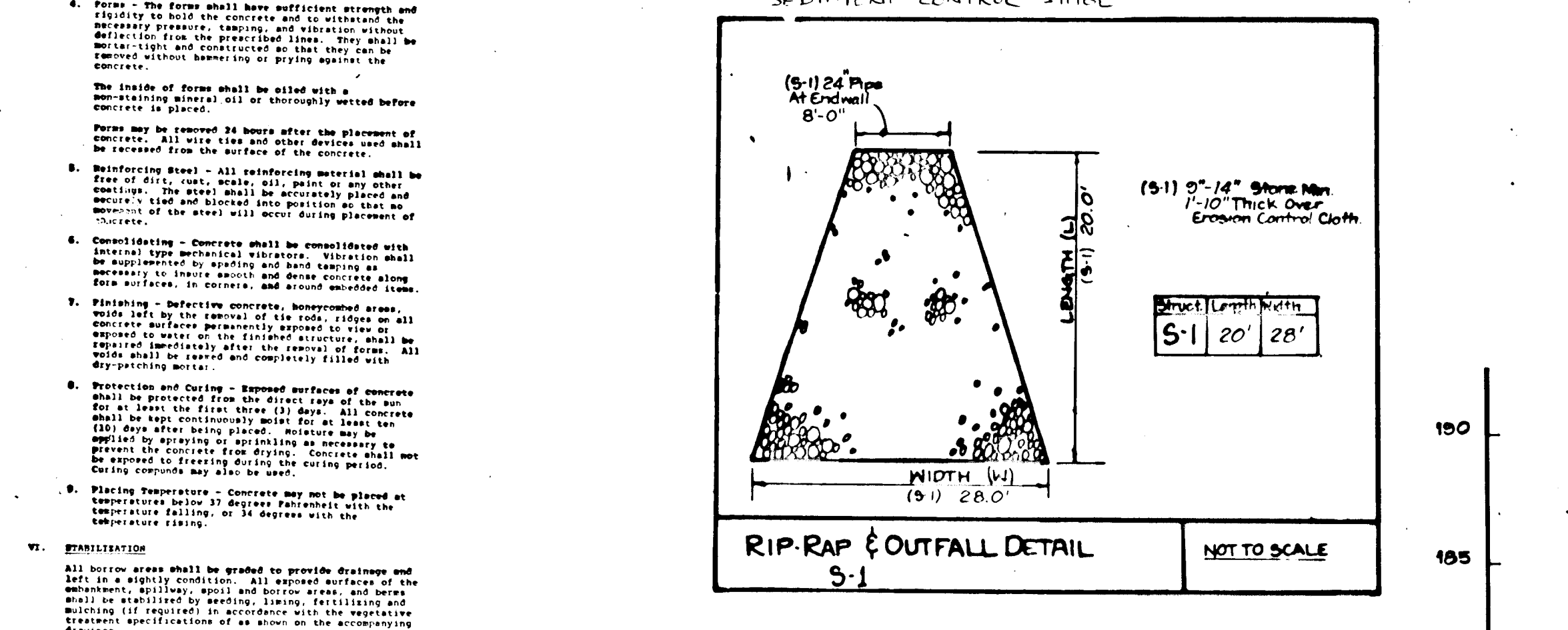
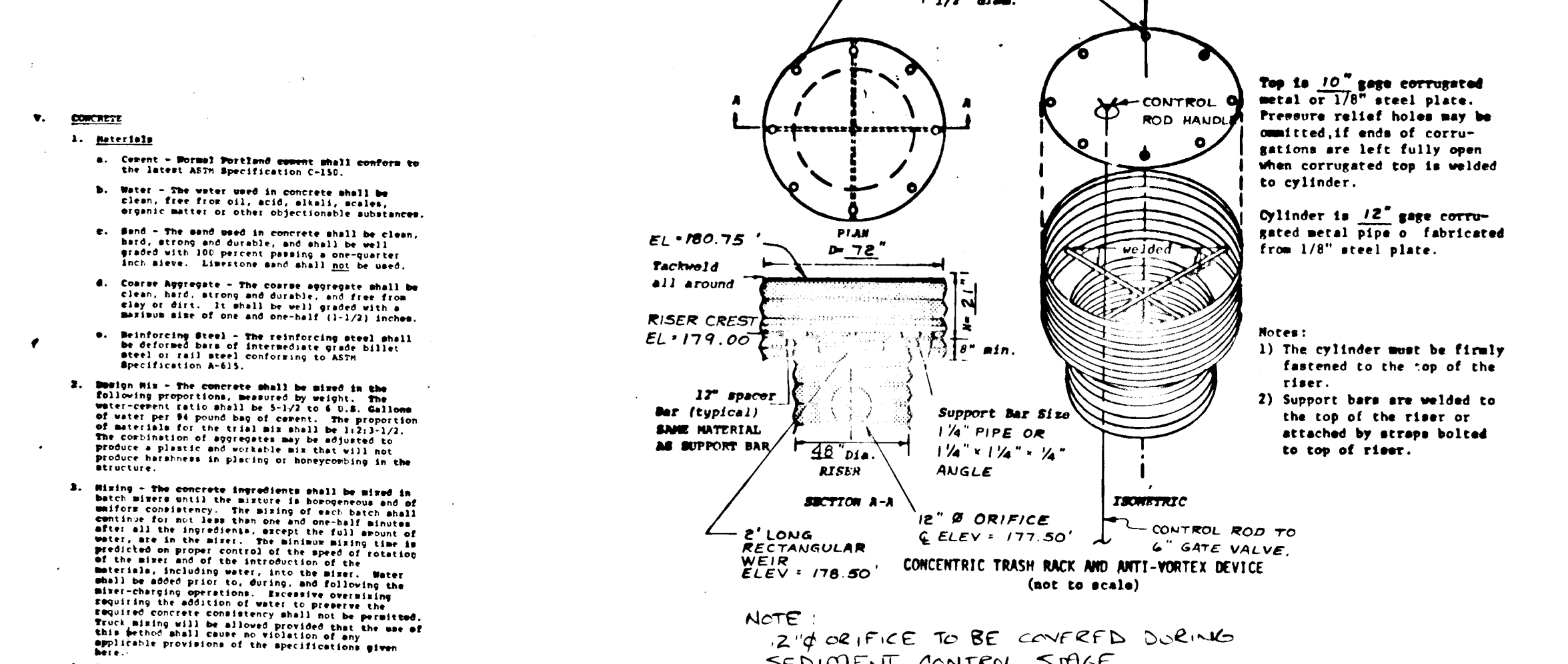
These specifications are appropriate to ponds within the scope of the District's practice.

**1. EROSION CONTROL**

1.1. Erosion control shall be provided for all areas to be excavated for the pond or reservoir. The erosion control shall be designed to prevent erosion of the soil during the construction and operation of the pond or reservoir. The erosion control shall be designed to prevent erosion of the soil during the construction and operation of the pond or reservoir. The erosion control shall be designed to prevent erosion of the soil during the construction and operation of the pond or reservoir.

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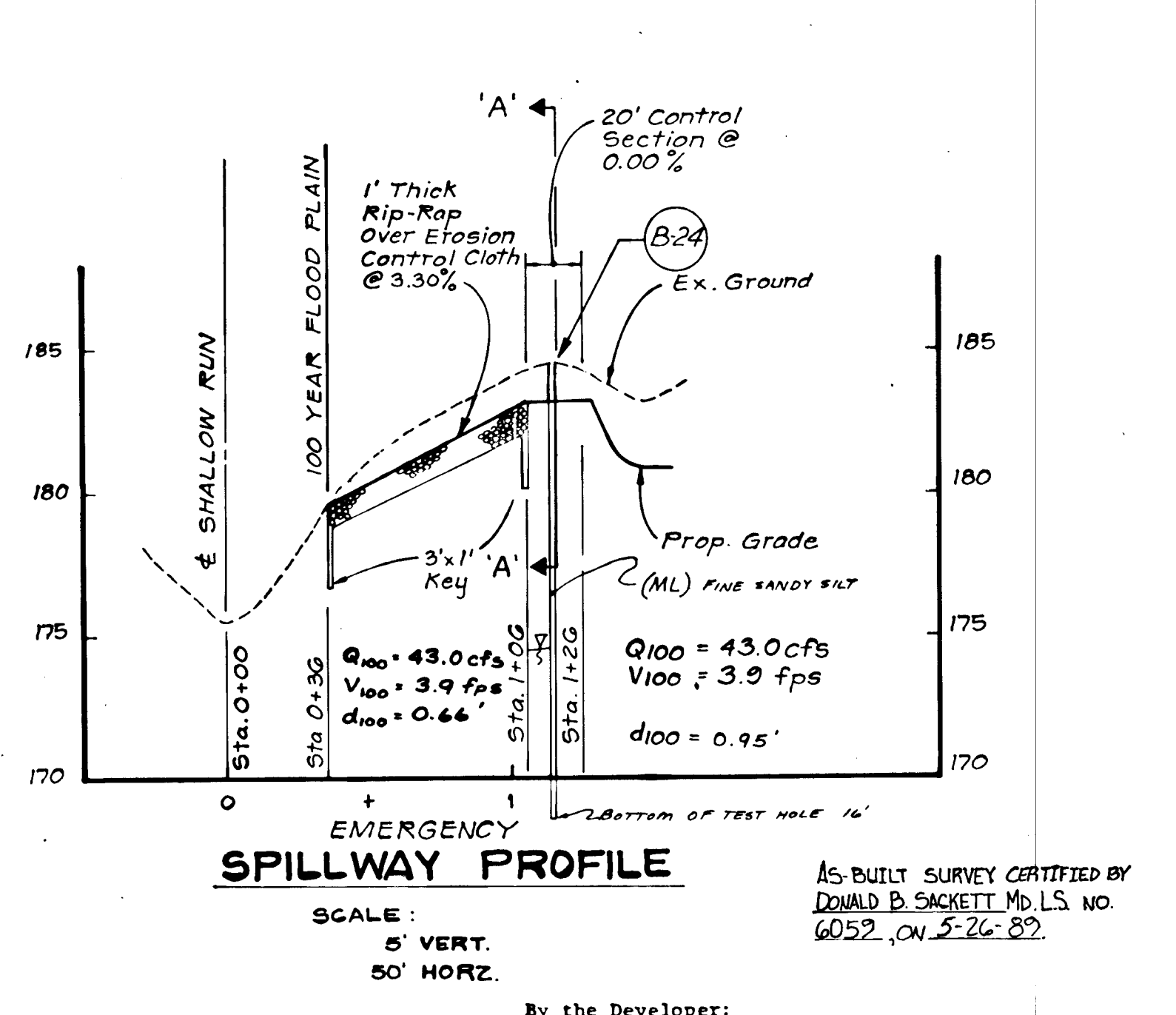
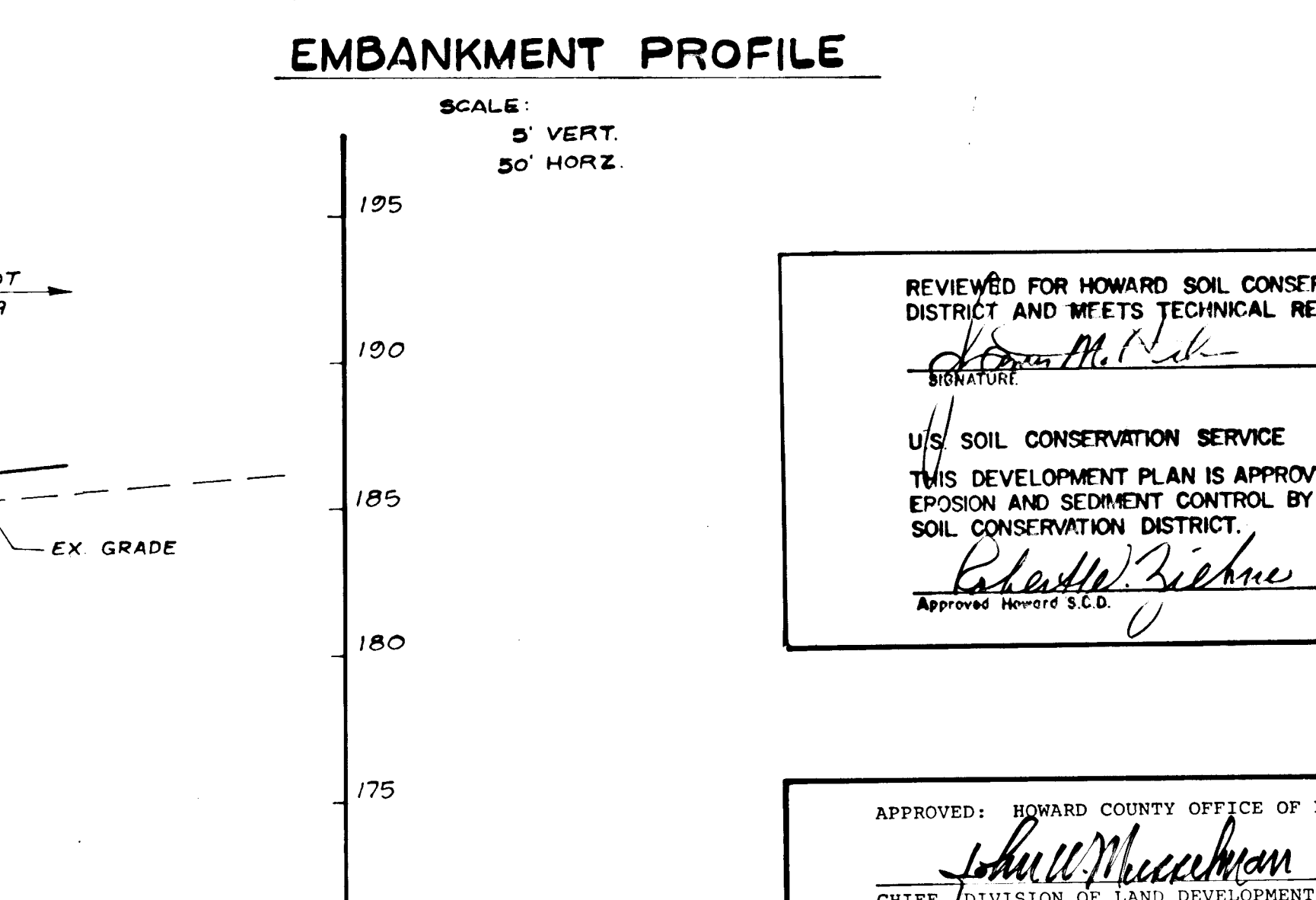
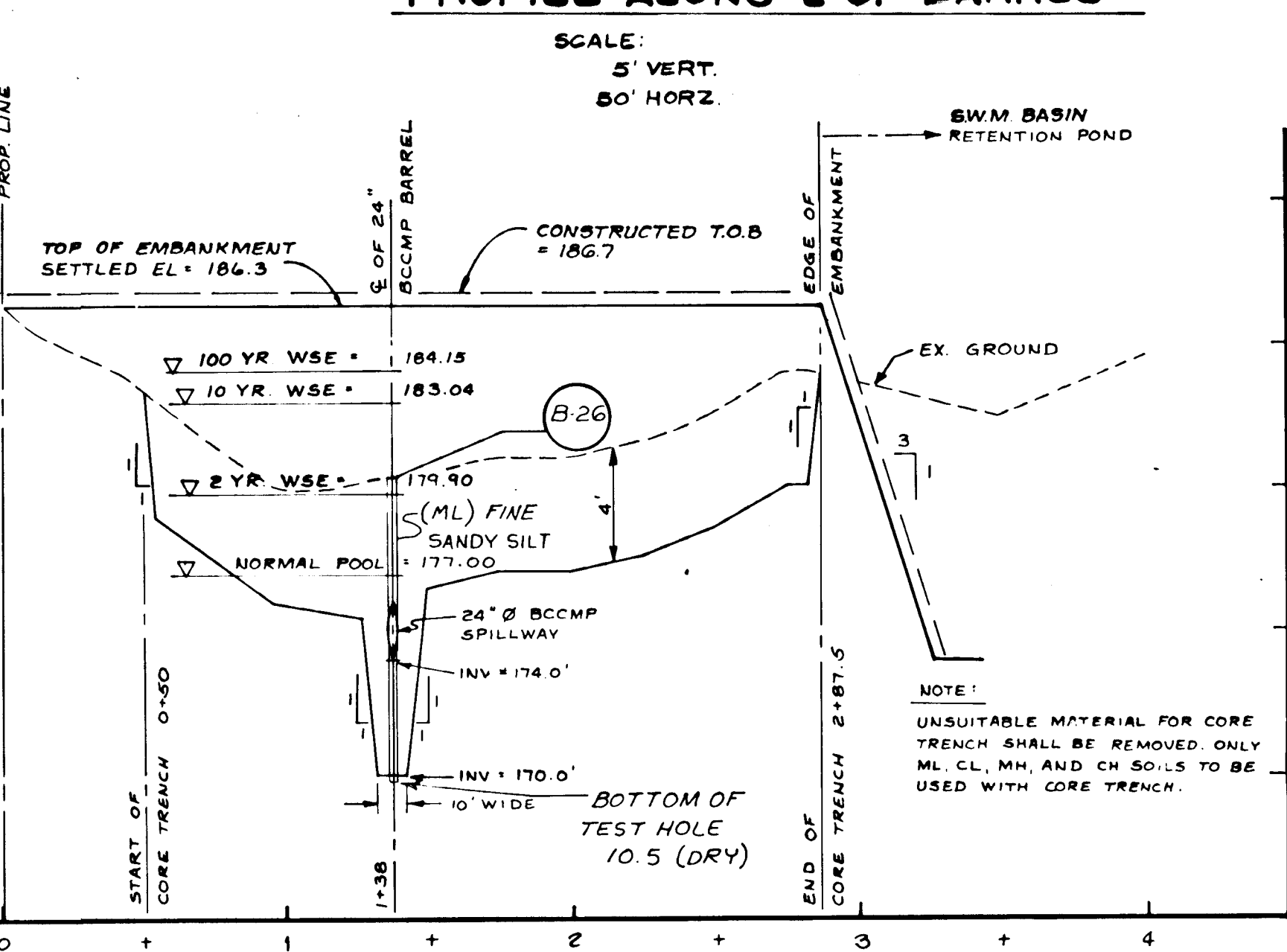
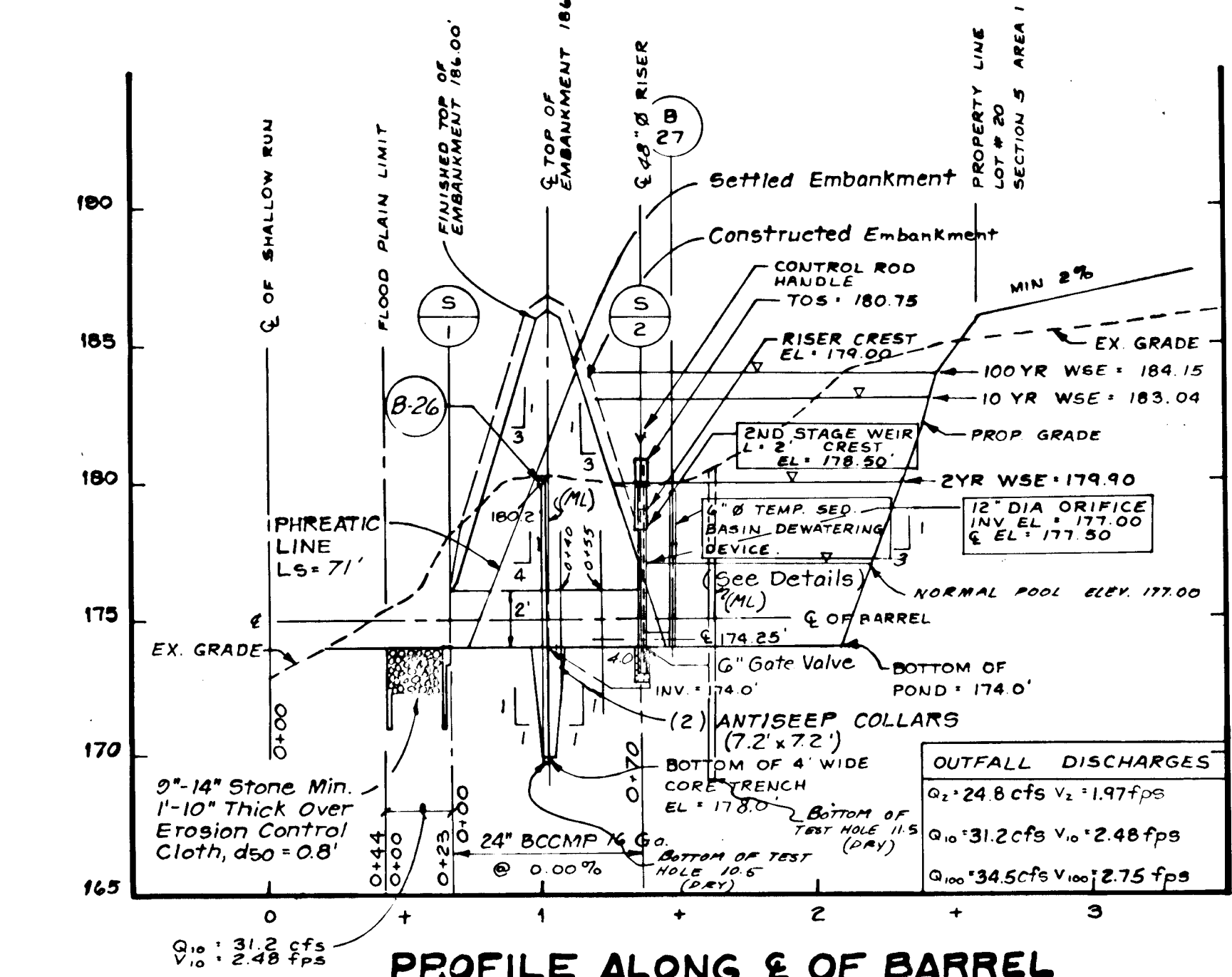
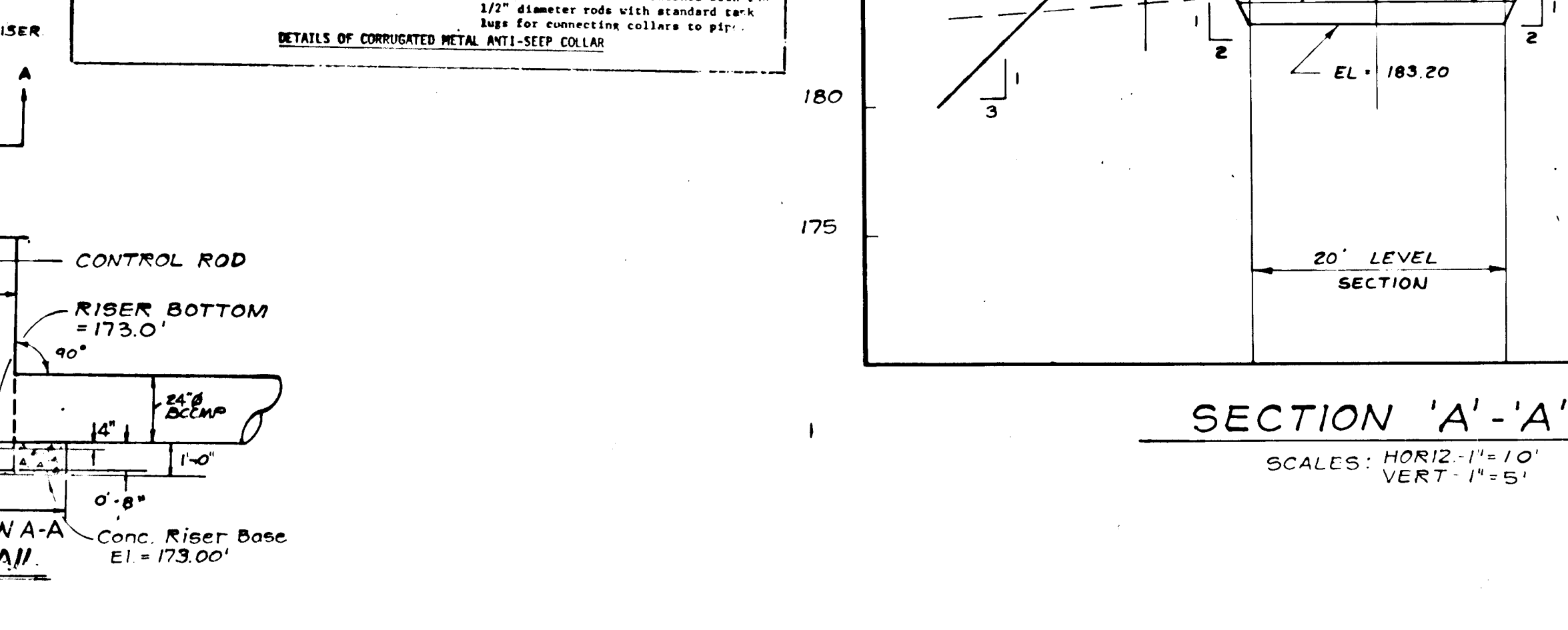
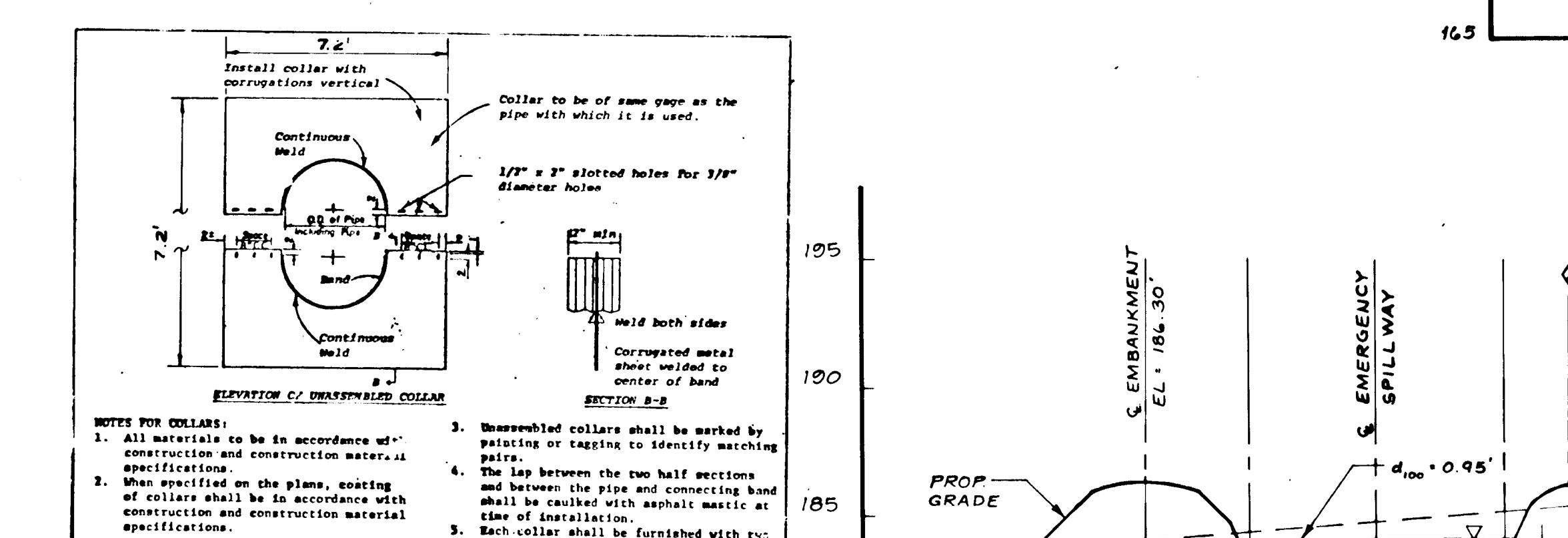


**2. CONCRETE**

2.1. Concrete shall be placed in accordance with the specifications of the American Concrete Institute (ACI) and the specifications of the project. The concrete shall be placed in accordance with the specifications of the American Concrete Institute (ACI) and the specifications of the project. The concrete shall be placed in accordance with the specifications of the American Concrete Institute (ACI) and the specifications of the project.

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By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance as a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

*John E. C. Patmore* 3-17-87  
DATE

By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I hereby certify that the developer that must provide the Howard Soil Conservation District with an "as built" plan of the pond within 30 days of completion."

*John E. C. Patmore* 8/8/86  
DATE

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

*John M. Nelson* 3-27-87  
DATE

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*John E. C. Patmore* 3-27-87  
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*John E. C. Patmore* 3-27-87  
DATE

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

*John E. C. Patmore* 3-27-87  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*John E. C. Patmore* 3-31-87  
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

*John E. C. Patmore* 3-30-87  
DATE

CHIEF, BUREAU OF ENGINEERING

**POND PROFILES & DETAILS**

**HUNT CLUB ESTATES**

LOTS 1 thru 38

SECTION 5 AREA 1

TAX MAP 38 PARCEL 515

1ST ELECTION DIST. HOWARD CO, MD

SHEET 8 OF 10 F-87-42

**KINDIG CONSULTANTS, INC.**

ENGINEERS • PLANNERS • SURVEYORS

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

*John E. C. Patmore*  
DATE Aug. 1986

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*John E. C. Patmore* 3-31-87  
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

*John E. C. Patmore* 3-30-87  
DATE

CHIEF, BUREAU OF ENGINEERING

#169

AS-BUILT 5-26-89



I - 95

BAUMAN DRIVE

DRIVE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *James M. Nelson* DATE: 3-27-87

U.S. SOIL CONSERVATION SERVICE

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

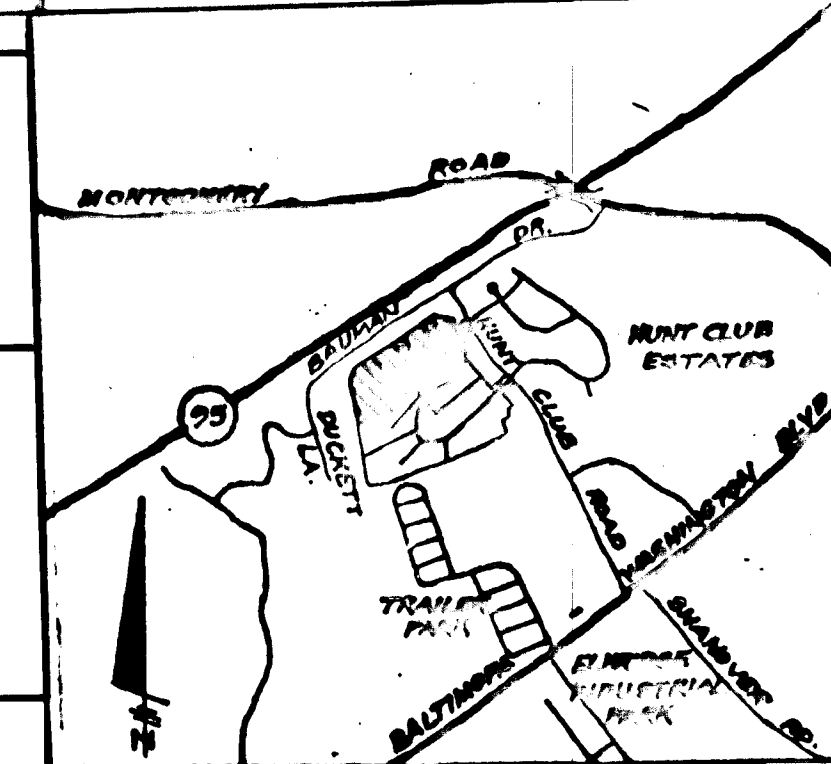
Signature: *Kobert W. Ziehm* DATE: 3-27-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Signature: *John W. Muechman* DATE: 3-31-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

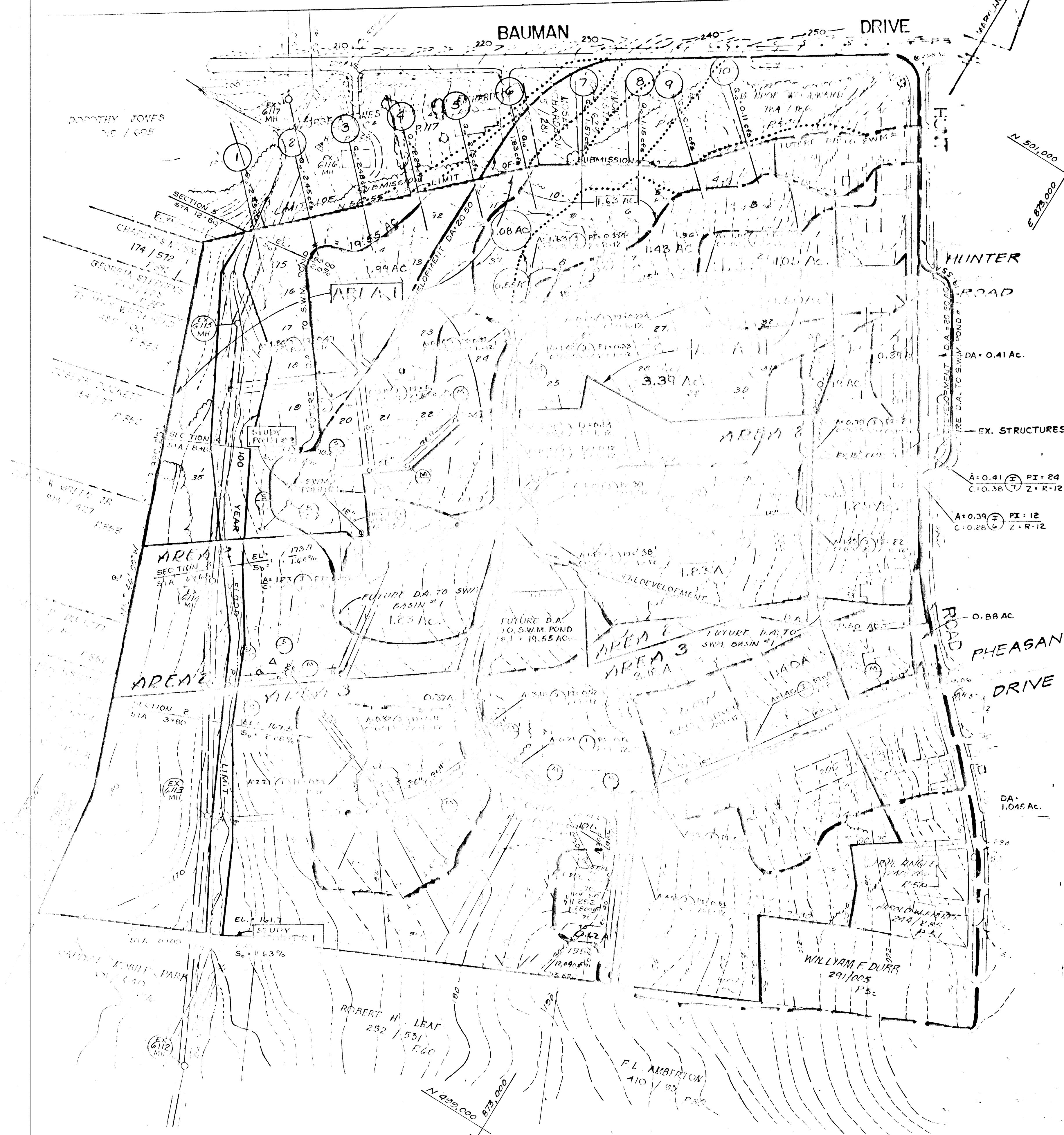
Signature: *D. C. ...* DATE: 3-30-87  
CHIEF, BUREAU OF ENGINEERING



VICINITY MAP  
SCALE: 1" = 200'

LEGEND

- PREDEVELOPMENT
- FUTURE DEVELOPMENT
- OFFSITE SWALE SECTIONS FOR EXISTING EARTH DIKE (SEE COMPUTATIONS)



DRAINAGE AREA MAP

HUNT CLUB ESTATES

LOTS 1 thru 38

SECTION 5 AREA 1

TAX MAP NO. 38 PARCEL 515

1ST ELECTION DISTRICT HOWARD CO, MD

SHEET 9 OF 10 F-87-42

Developer: Howard County Land Services, Inc.  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043

Owner: Patuxent Woods Joint Venture  
10176 Baltimore National Pike  
Suite 202  
Ellicott City, MD 21043

AS-BUILT SURVEY CERTIFIED BY  
DONALD B. SACKETT, Md. L.S. NO.  
6032, ON 5-26-89.

KIDDER CONSULTANTS, INC.

ENGINEERS, LAND PLANNERS & SURVEYORS

1100 WEST STREET, SUITE 100 / LAUREL, MD 20707  
(Wash.) (301) 853-1821 / 792-8066 (Toll)

Signature: *John E. ...*

JOHN E. PATMORE MD PE NO. 6878

AUG. 86 1" = 100'

AS-BUILT 5-26-89

#169

**SOILS LEGEND**

SOIL TYPE	GROUP	DESCRIPTION	SOIL TYPE	GROUP	DESCRIPTION
ScD - Sandy clay loam	C	gently sloping	Bc3 - Beltsville Silt Loam	C	5 to 10 percent slopes, severely eroded
IuB - Luke Loam, Local Alluvium	C	1 to 5 percent slopes	CmC - Chillum Silt Loam	C	5 to 10 percent slopes, moderately eroded
Kc2 - Kelly Silt Loam	D	8 to 15 percent slopes, moderately eroded	LI - Silt Loam	D	
WaB - Watchung Silt Loam	D	3 to 8 percent slopes	Bc2 - Beltsville Silt Loam	C	1 to 5 percent slopes, moderately eroded
ScB - Sandy and Clayey Loam	B	gently sloping	EvB - Evaskora Loamy Sand	A	1 to 5 percent slopes
Bc2 - Beltsville Silt Loam	C	5 to 10 percent slopes, moderately eroded	Md - Mada Loam	-	Non Descript

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *John M. H. [unclear]* 3-27-87  
DATE

U.S. SOIL CONSERVATION SERVICE

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

Signature: *Robert W. Ziskin* 3-27-87  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

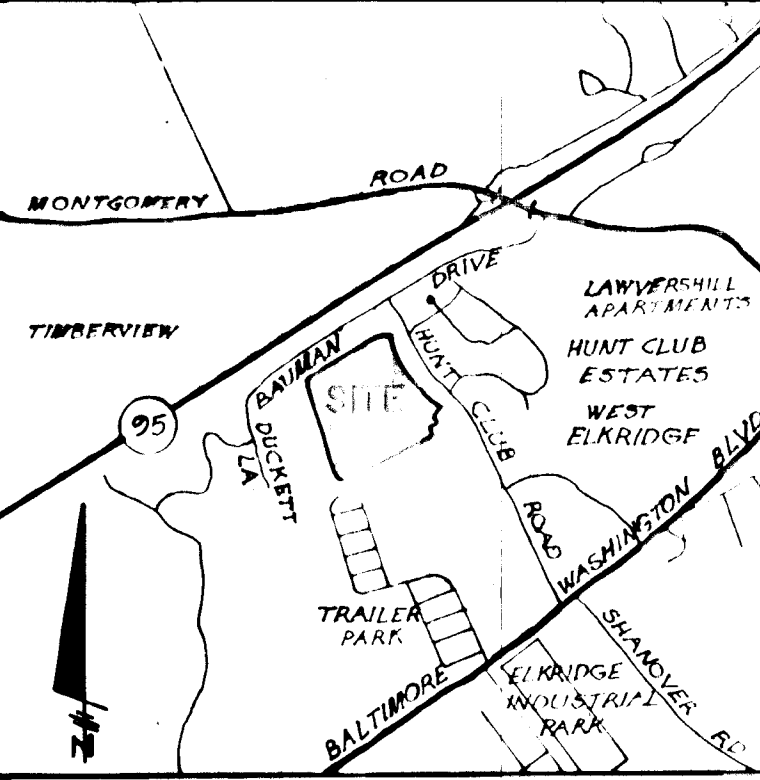
Signature: *John W. [unclear]* 3-31-87  
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

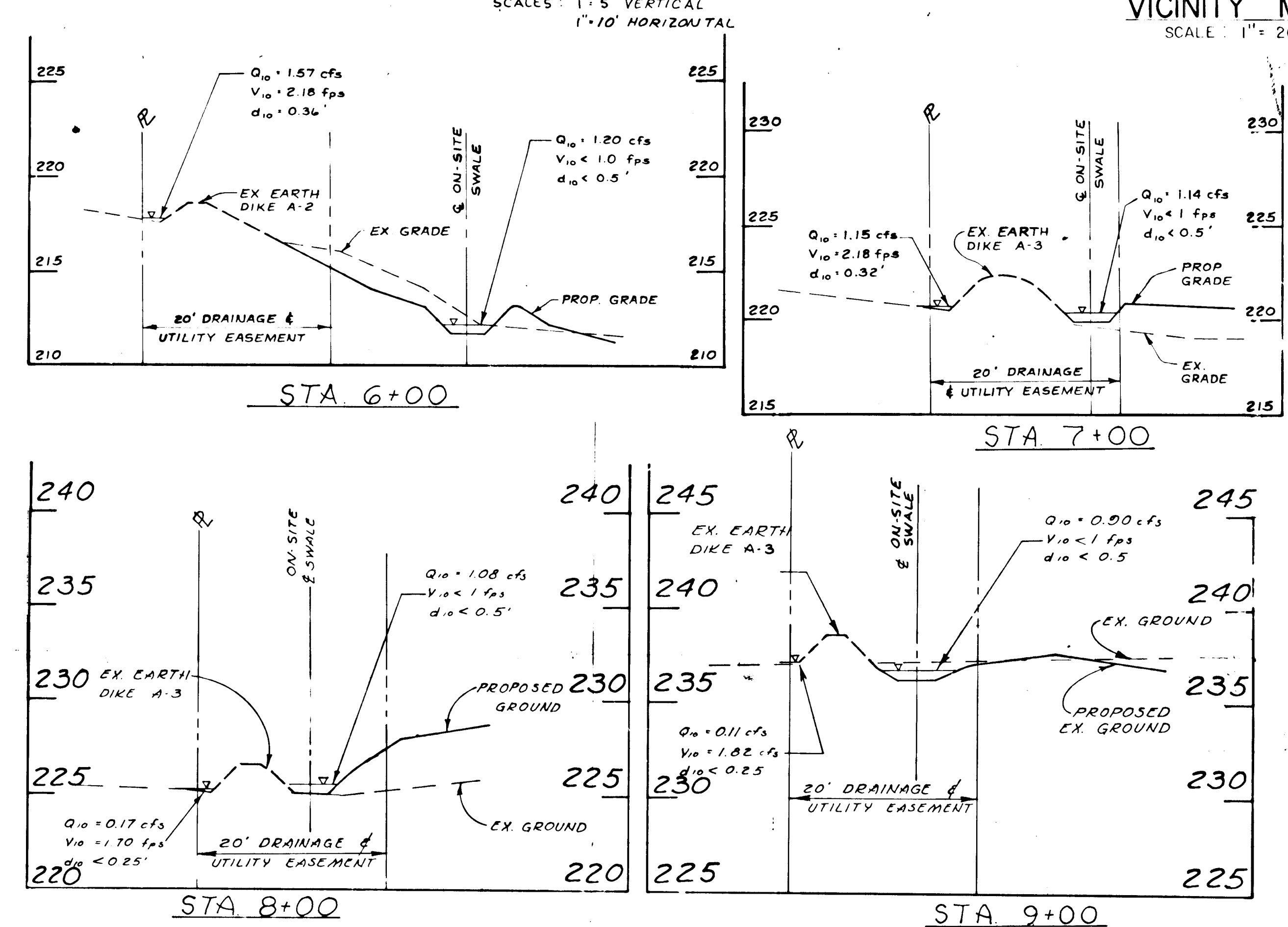
APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

Signature: *John [unclear]* 3-30-87  
DATE

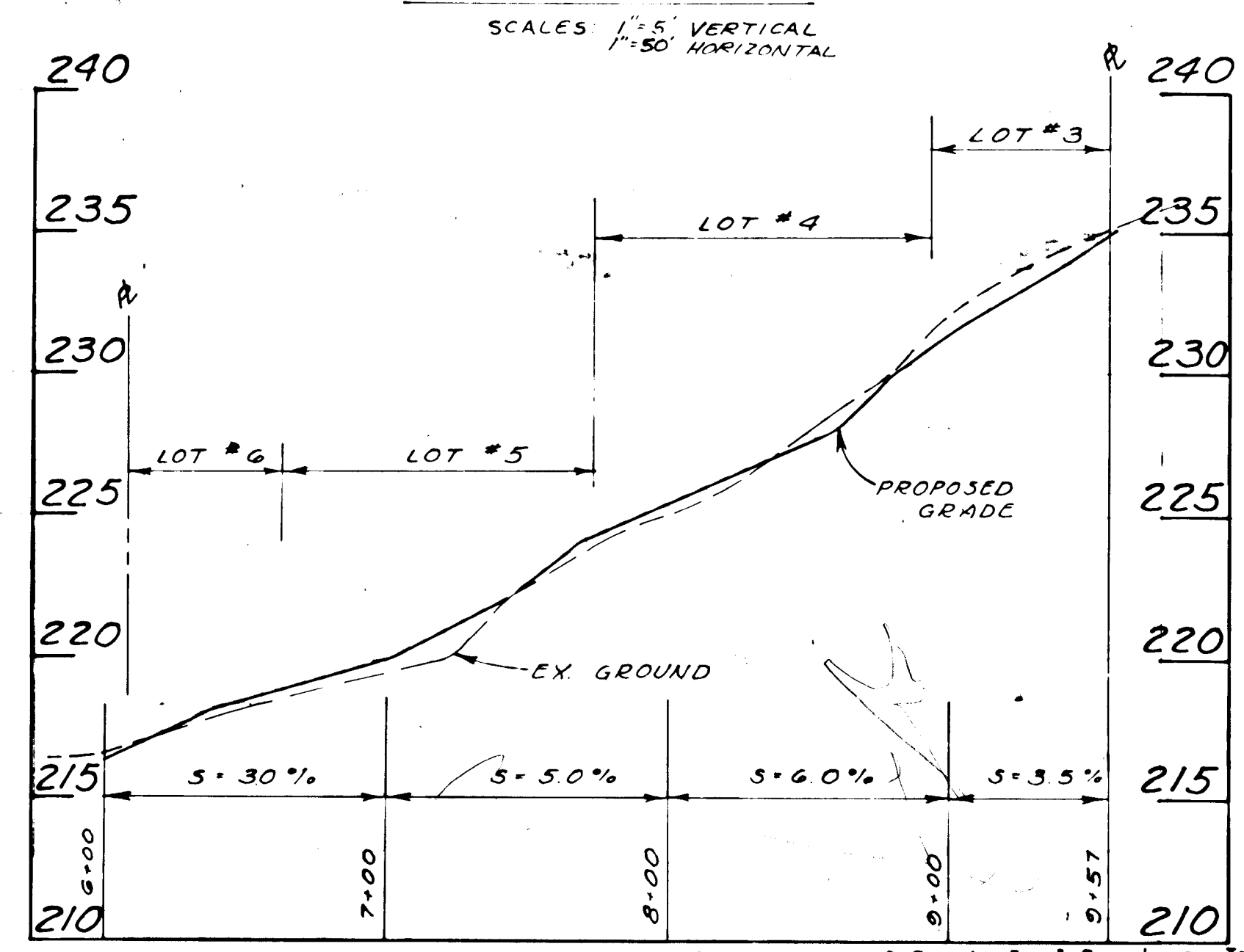
CHIEF, BUREAU OF ENGINEERING



**SWALE SECTIONS**



**SWALE PROFILE**



NOTE: EXISTING EARTH DIKE CONSTRUCTED UNDER 6P-86-77

Developer: Howard County Land Services, Inc.  
10176 Baltimore National Pike Suite 202 Ellicott City, MD 21043

Owner: Patuxent Woods Joint Venture  
10176 Baltimore National Pike Suite 202 Ellicott City, MD 21043

A5-BUILT JURY CERTIFIED BY DONALD D. SACKETT, MD. L.S. NO. 6657 ON 5-26-89.

**SOILS MAP & SWALE PROFILE & SECTIONS FOR HUNT CLUB ESTATES**

LOTS 1 thru 38  
SECTION 5 AREA 1  
TAX MAP NO. 38 PARCEL 515  
1ST ELECTION DISTRICT HOWARD COUNTY, MD

SHEET 10 of 10 F-87-42

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

JOHN E.C. PATMORE MD PE. NO. 8978  
DATE OCT. 1986 SCALE 1" = 100'

#169

A5-BUILT 5-26-89