

PRESTWICK DRIVE
STATION 0+00 TO 2+21

DEVELOPER'S CERTIFICATE

"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."

Michael J. Lemmitt 12-19-85
DATE

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION ACT."



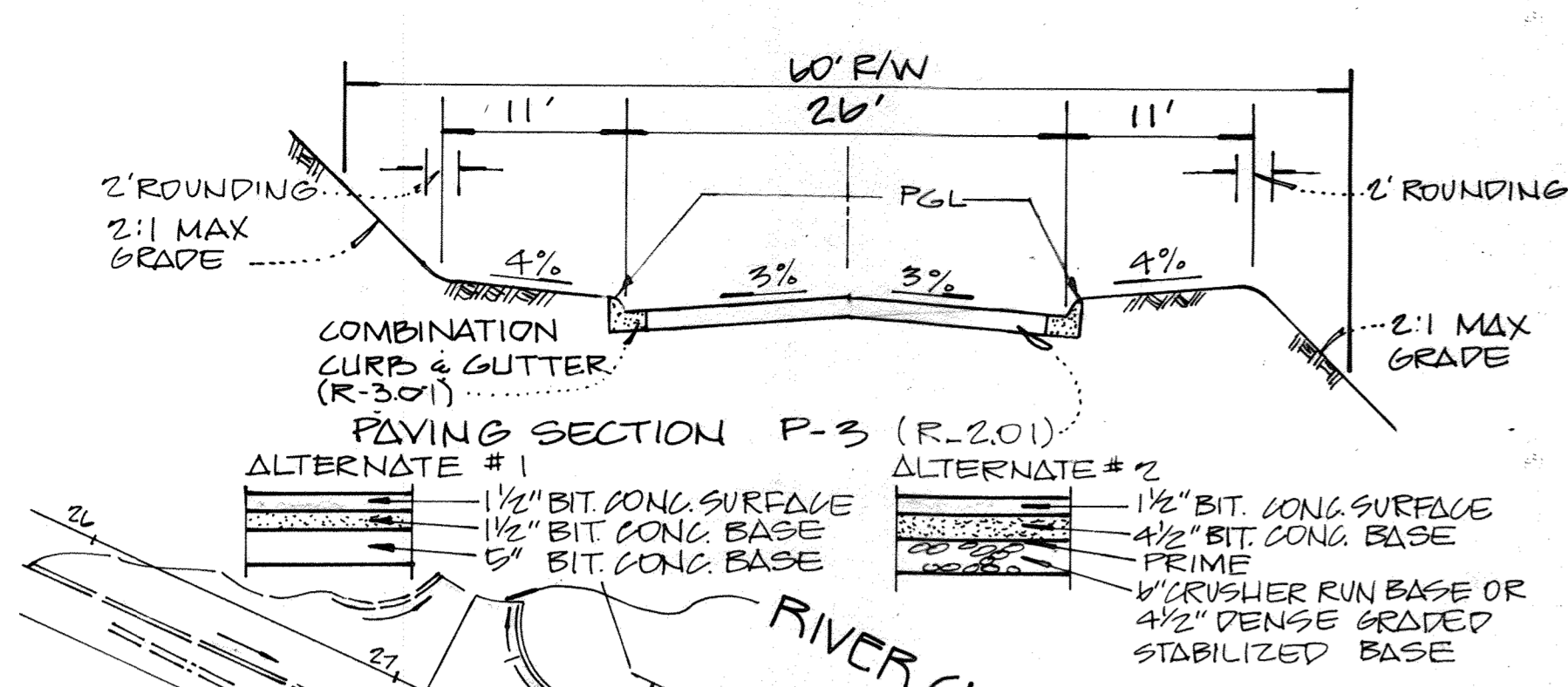
Delu Schwartz 12/20/85
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE 2-27-86
John W. M... ..
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PRIVATE WATER, PRIVATE SEWER, PUBLIC DRAINAGE SYSTEMS & ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 2/28/86
John W. M... ..
CHIEF, BUREAU OF ENGINEERING



± CURVE DATA
± STATION = 0+44.53 TO 4+19.7
R = 450.00'
A = 427.44'
T = 231.38'
Δ = 54° 25' 24"
CHD BRG = N41° 42' 42" E
CHD = 411.55'

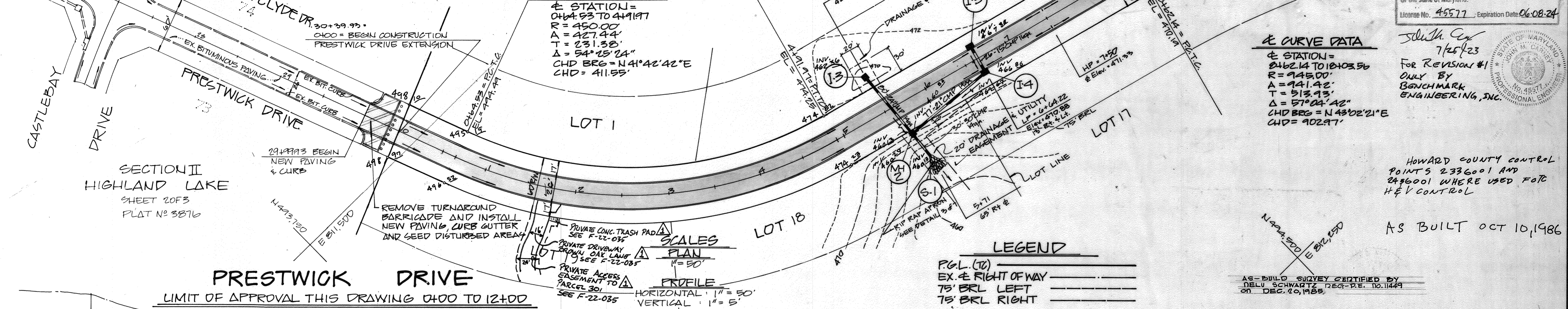
± CURVE DATA
± STATION = 8+62.14 TO 10+03.56
R = 945.00'
A = 941.42'
T = 513.93'
Δ = 57° 04' 42"
CHD BRG = N43° 02' 21" E
CHD = 902.97'

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577, Expiration Date 06-08-24

John W. M... .. 7/25/83
FOR REVISION #1 ONLY BY BENCHMARK ENGINEERING, INC.

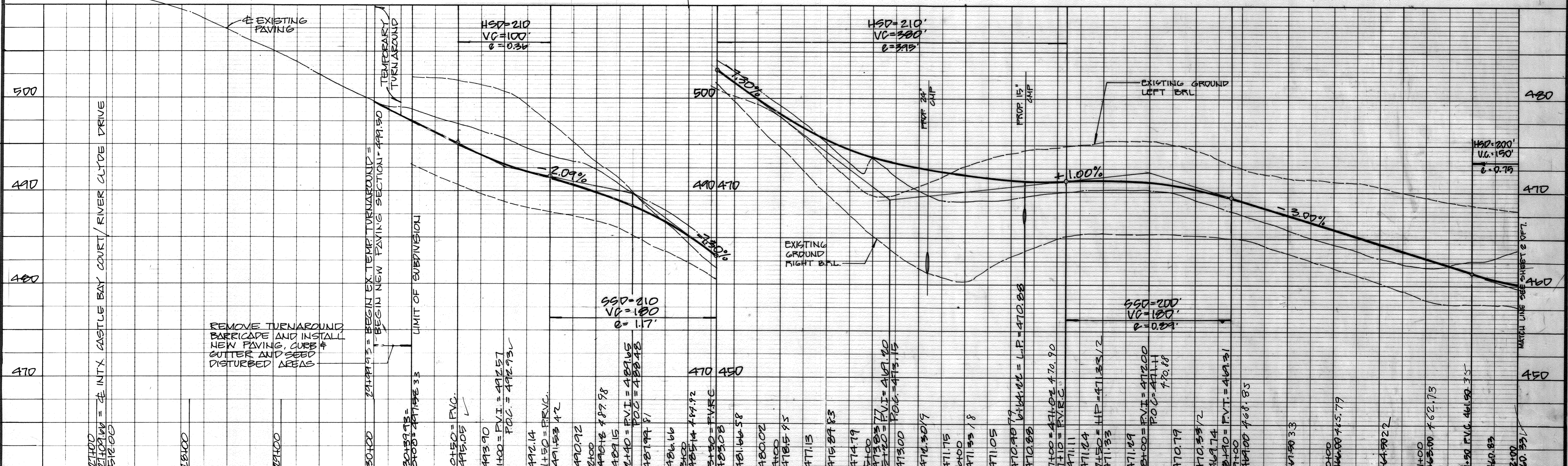
HOWARD COUNTY CONTROL POINTS 2336001 AND 2496001 WHERE USED FOR H&V CONTROL

AS BUILT OCT 10, 1986



PRESTWICK DRIVE

LIMIT OF APPROVAL THIS DRAWING 0+00 TO 12+00



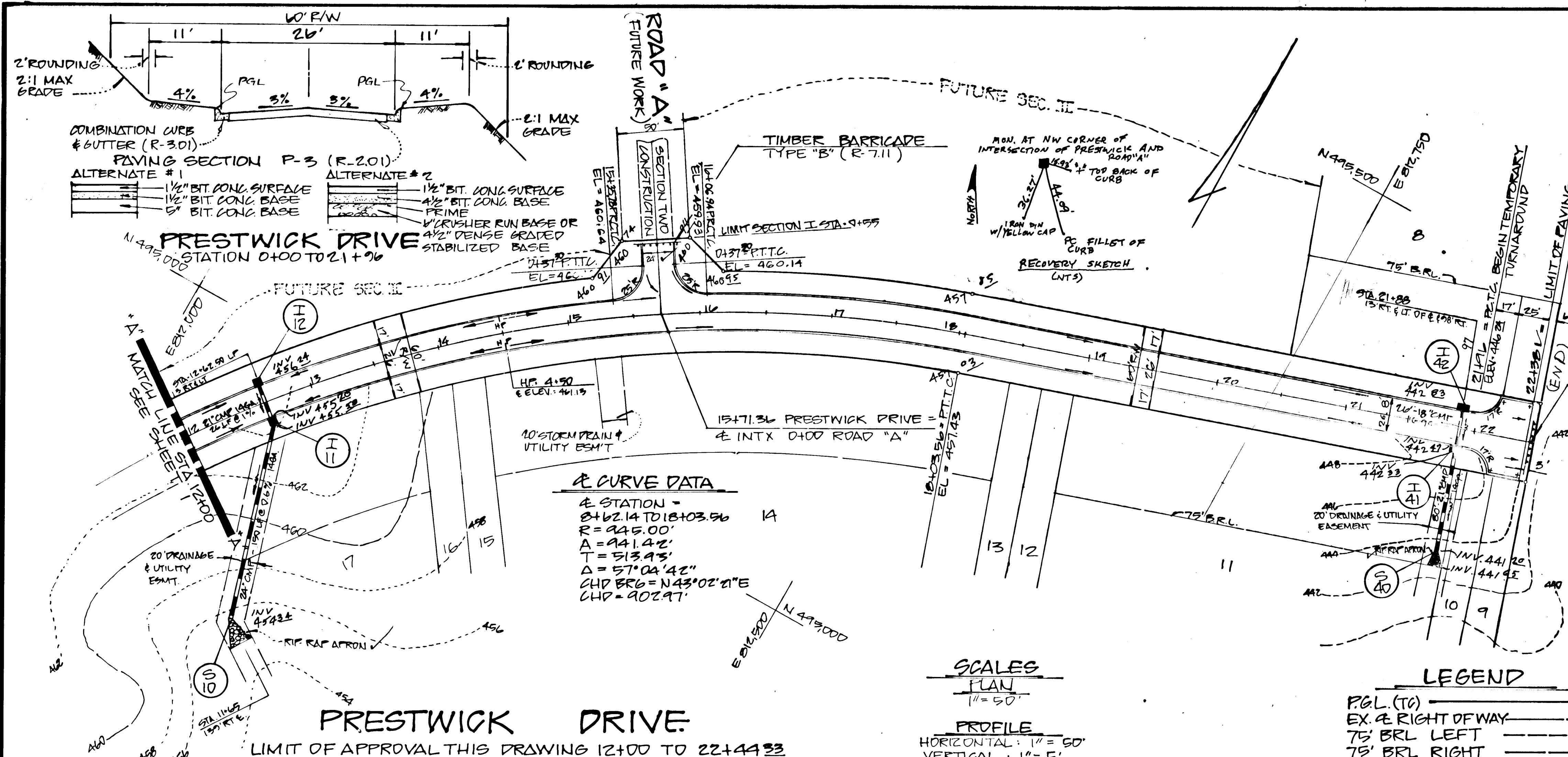
NO.	BY	REVISIONS	DATE
1	BEJ	SHOW DRIVEWAY, PAD & EASEMENT ON LOT 19 PER F-22-035	7/25/83

DEVELOPMENT CONSULTANTS GROUP, INC.
17904 GEORGIA AVENUE # 102
OLNEY, MARYLAND 20832
301-924-4570

GRADE ESTABLISHMENT AND STORM DRAIN PLAN
SECTION ONE
GREENE FIELDS
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DATE: DEC. 85
DRAWN: BILL
CHECKED: MLG
SCALE: AS SHOWN
Sheet 7 of 7
PROJECT NO. 136-01

#1194



DEVELOPER'S CERTIFICATE
 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.
 Richard J. Penwill 12-19-85

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN AND THAT THE ENGINEER HAS PERSONAL KNOWLEDGE OF THE SITE CONDITIONS THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION SERVICE.
 Chh Khanna 12/29/85

AS-BUILT SURVEY CERTIFIED BY
 NEIL SCHWARTZ REG.-P.E.
 NO. 11449 ON DEC. 20, 1985

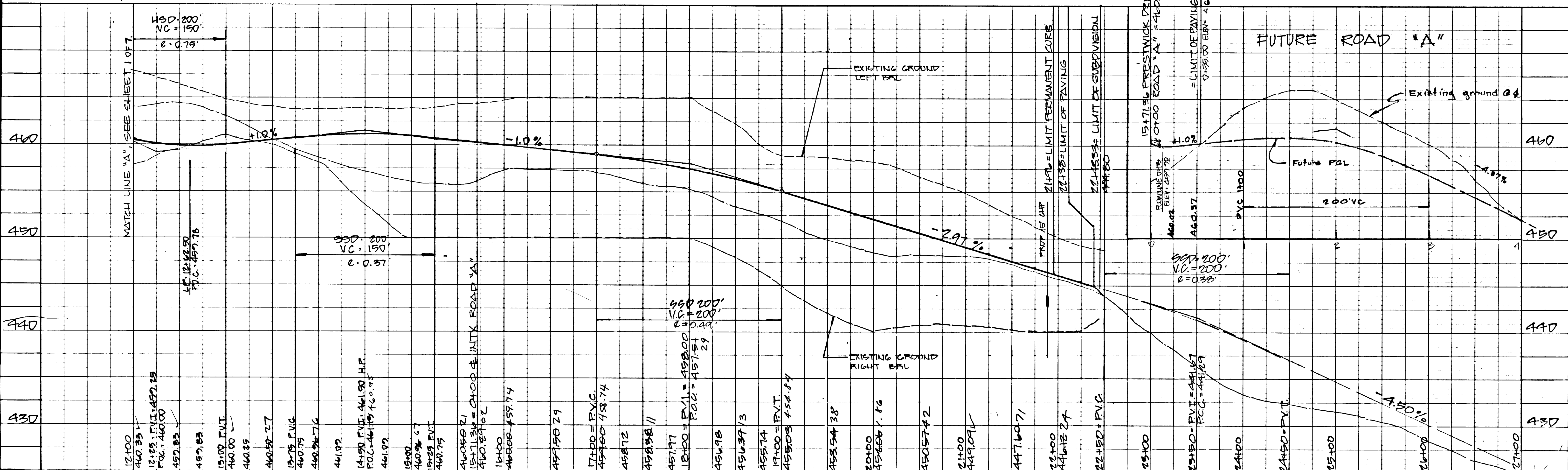
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE 2-27-86 John W. Muehlman
 CHIEF, BUREAU OF ZONING & PLANNING

APPROVED: FOR PRIVATE WATER, PRIVATE SEWER & PUBLIC DRAINAGE SYSTEMS & ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 2/28/86 [Signature]
 CHIEF, BUREAU OF ENGINEERING

AS BUILT OCT 10, 1986



Owner, Developer: (CONTRACT) JRD DEVELOPMENT INC. PO BOX 203 CLARYVILLE, MD 21029 301-531-5539

NO. 1194

REVISIONS

DATE

DEVELOPMENT CONSULTANTS GROUP, INC. 17904 GEORGIA AVENUE # 102 OLNEY, MARYLAND 20832 301-924-4570

SECTION ONE GREENE FIELDS 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE 1/8" = 1'-0"

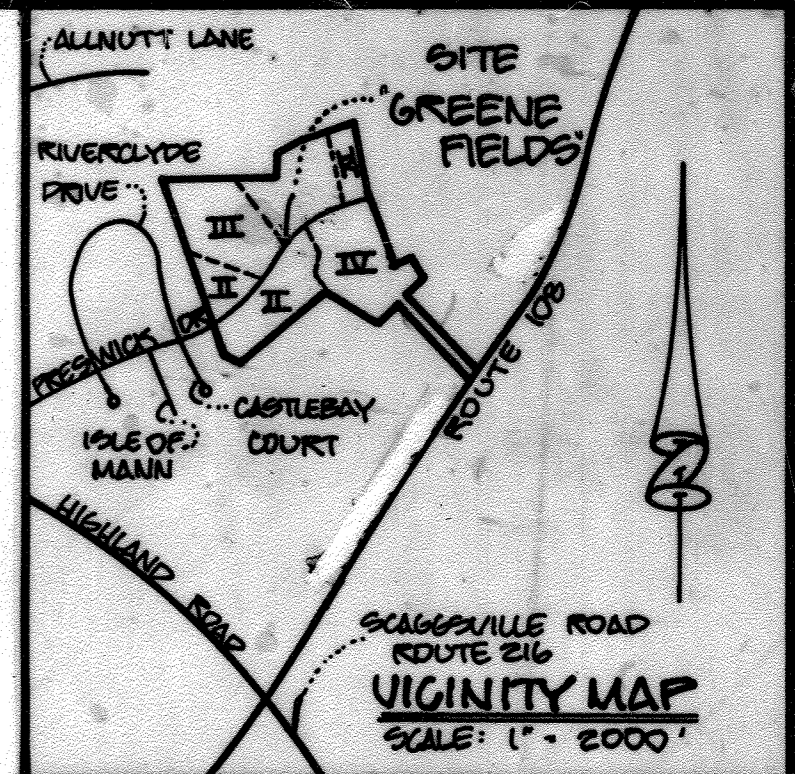
Sheet 2 of 7

PROJECT NO. 132-01

DATE 2/15/88

F-86-102 DCG# 136-D

- SEQUENCE OF CONSTRUCTION**
1. Obtain necessary permits. - Feb., 1986
 2. Notify County 24 hours prior to commencement of construction. - Feb., 1986
 3. Clear & grub for SCE & silt fence. - Feb., 1986
 4. Install SCE & Silt fence. - Feb., 1986
 5. Clear & grub for grading of roads & storm drains only. - March, 1986
 6. Grade site and install storm drain systems. - March, 1986
 7. Install inlet protection on catch basins. - April, 1986
 8. Remove turn around in Highland Lake subdivision. - April, 1986
 9. Install concrete curb & gutter. - April, 1986
 10. Install bituminous paving. - April, 1986
 11. Stabilize disturbed areas. - May, 1986
 12. Remove sediment control devices when approved by Sediment Control Inspector.



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 45577, Expiration Date: 06.08.24

John M. Coy 7/15/85
 FOR REVISION #1 ONLY BY
 BENCHMARK ENGINEERING, INC.

APPROVED: FOR PRIVATE WATER, PRIVATE SEWER & PUBLIC DRAINAGE SYSTEMS & ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 2/27/86
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE: 2-27-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

NOTE: THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, 2) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

DEVELOPER'S CERTIFICATE

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Richard Bennett 12-19-85
 DATE

ENGINEER'S CERTIFICATE

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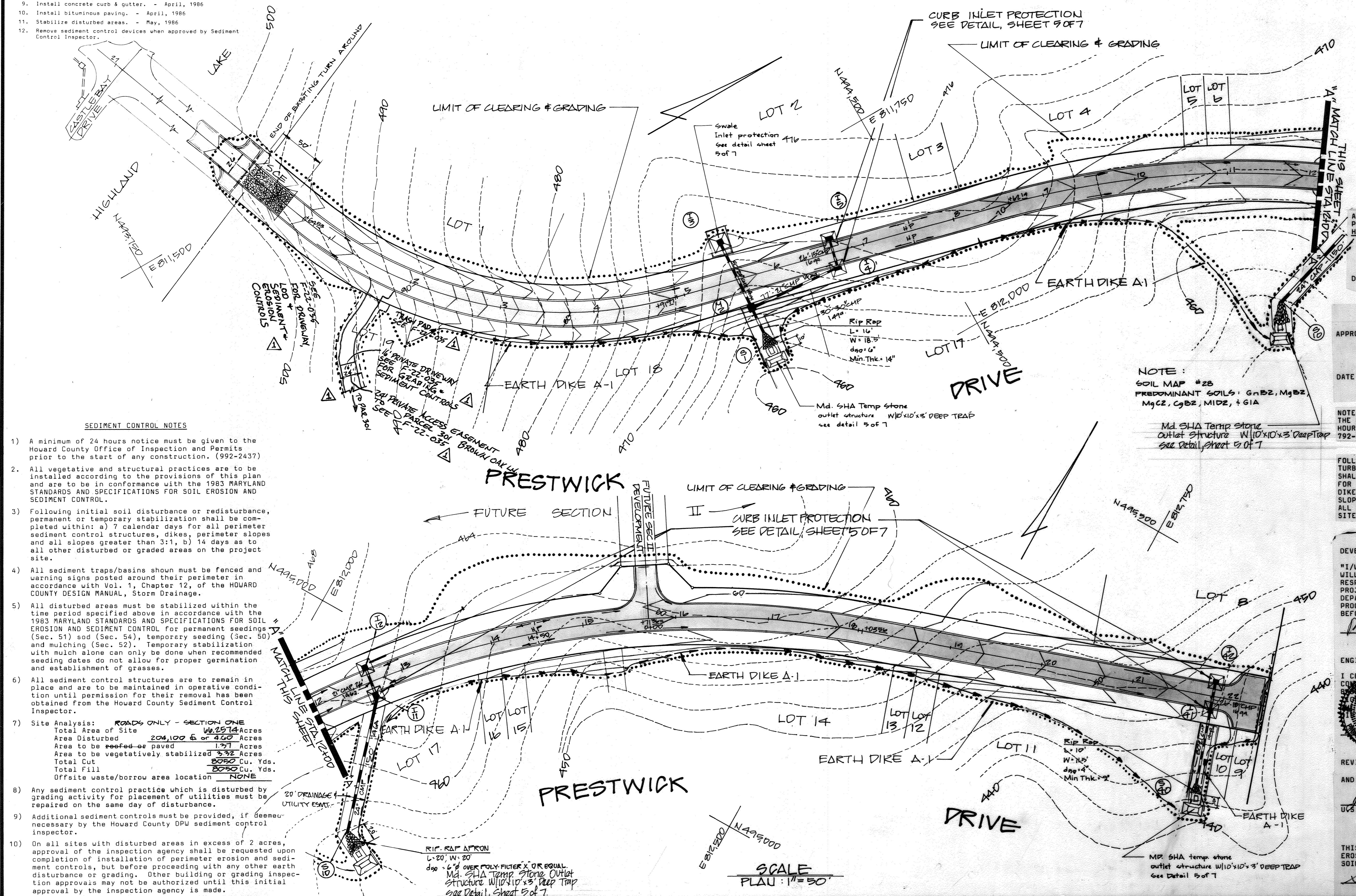
Wahn Schwartz 12/20/85
 DATE

REVIEWED FOR: HOWARD S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS

James M. Helm 4/20/86
 U.S. SOIL CONSERVATION SERVICE DATE

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

Stephen L. Shinn 3/20/86
 HOWARD S.C.D. DATE



- 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 redistribution, 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) sod (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:
 - ROADS ONLY - SECTION ONE
 - Total Area of Site: 204,100 ± sq. ft. (4.67 Acres)
 - Area Disturbed: 204,100 ± sq. ft. (4.67 Acres)
 - Area to be seeded or paved: 1,201 sq. ft. (0.027 Acres)
 - Area to be vegetatively stabilized: 332 Acres
 - Total Cut: 8080 Cu. Yds.
 - Total Fill: 8080 Cu. Yds.
 - Offsite waste/borrow area location: NONE
 - 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 DPU 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.

Owner/Developer: (PROJECT)	NO.	BY	REVISIONS	DATE
JRD DEVELOPMENT, INC. P.O. BOX 208 CLARKSVILLE, MD 21029 301-531-5537	1	BEI	SHOW DRIVEWAY AND EASEMENT ON LOT 19 PER F-22-035	07.25.2023

DEVELOPMENT CONSULTANTS GROUP, INC.

17904 GEORGIA AVENUE # 102
 OLNEY, MARYLAND 20832
 301-924-4570

SOIL EROSION AND SEDIMENT CONTROL PLAN

SECTION ONE
GREENE FIELDS
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DATE: DEC. 85
 DRAWN: BIL
 CHECKED: WLS
 SCALE: AS SHOWN

Sheet 4 of 7
 PROJECT NO. 130-01

#1194

F-86-102 P66 # 130-01

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 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 SQUARE FEET) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 POUNDS 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. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF LEOPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE 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 (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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

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 23 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF LEOPING 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 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.

STANDARD AND SPECIFICATIONS FOR SILT FENCE

Definition

A temporary barrier of geotextile fabric (filter cloth) used to intercept sediment laden runoff from small drainage areas of disturbed soil.

Purpose

The purpose of a silt fence is to reduce runoff velocity and effect deposition of transported sediment load. Limits imposed by ultraviolet stability of the fabric will dictate the maximum period the silt fence may be used.

Conditions Where Practice Applies

A silt fence may be used subject to the following conditions:

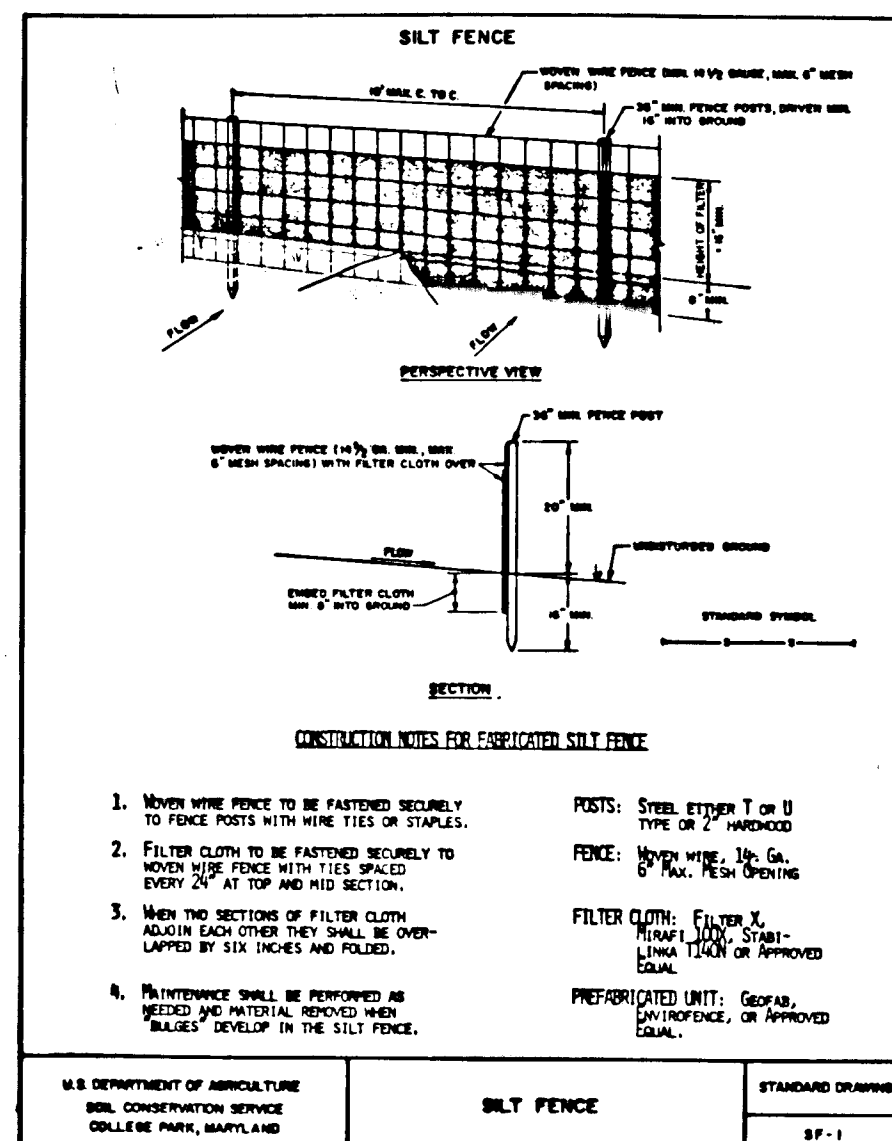
1. Maximum allowable slope length contributing runoff to a silt fence are listed in the table below.
- | Slope | Maximum Slope Length (ft) |
|------------------|---------------------------|
| 2:1 | 50 |
| 3:1 | 75 |
| 4:1 | 125 |
| 5:1 | 175 |
| Flatter than 5:1 | 200 |
2. Maximum drainage area for overland flow to a silt fence shall not exceed 1/4 acre per 100 feet of fence; and
 3. Erosion would occur in the form of sheet erosion; and
 4. There is no concentration of water flowing to the barrier.

Design Considerations

All silt fences shall be placed close to the contour as possible, and the area below the fence must be undisturbed or stabilized.

A detail of the silt fence shall be shown on the plan, and contain the following minimum requirements:

1. The type, size, and spacing of fence posts.



STANDARD AND SPECIFICATIONS FOR STORM DRAIN INLET PROTECTION

Definition

Filter cloth installed around inlets in the form of a fence or across an opening, thereby reducing sediment content of sediment laden water.

Purpose

To prevent sediment laden water from entering a storm drain system through inlets.

Conditions Where Practice Applies

This practice shall be used where the drainage area to an inlet is disturbed, it is not possible to temporarily divert the storm drain outlet into a sediment trapping device and watertight blocking of inlets is not advisable. It is not to be used in place of sediment trapping devices. This practice may be used in conjunction with storm drain diversion to help prevent alteration of pipes installed with a low slope angle.

Construction Specifications

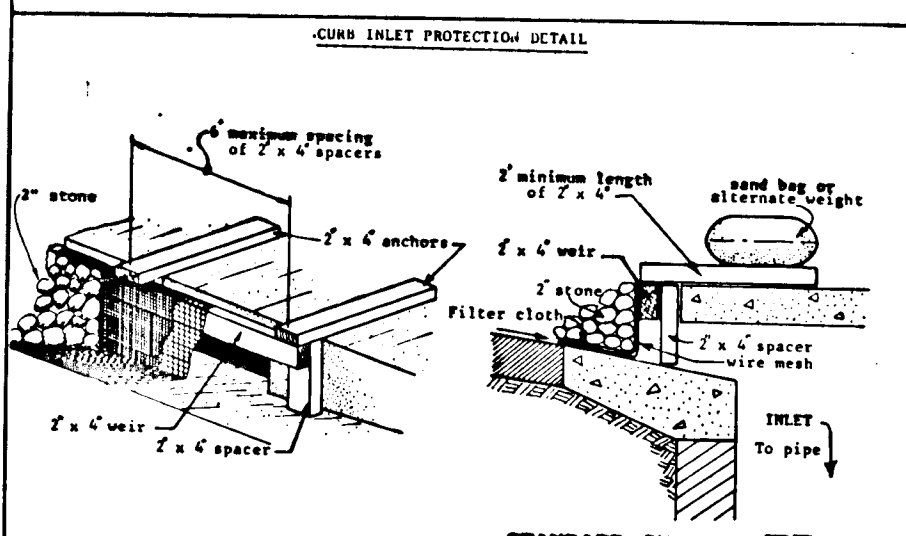
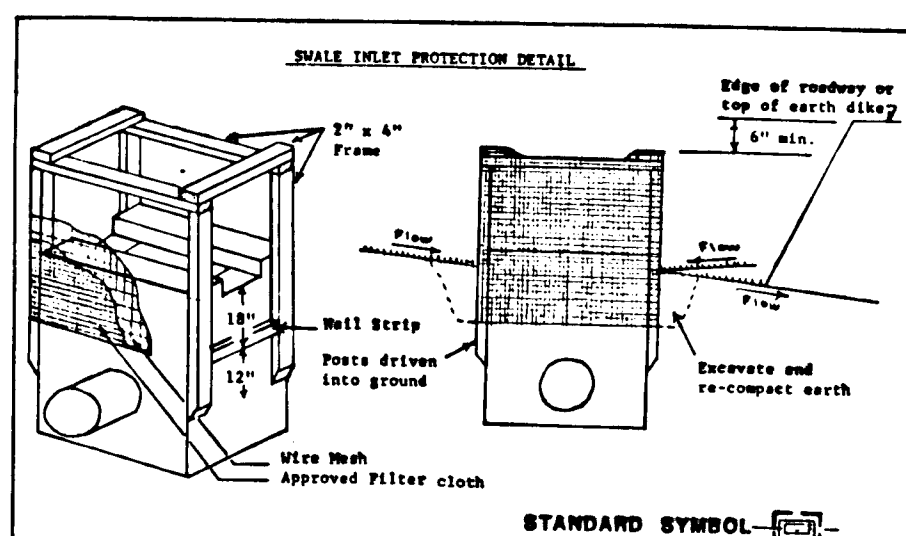
I. Materials

- A. Wooden frame is to be constructed of 2" x 4" construction grade lumber.
- B. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
- C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, 60S, 40-85, to allow sufficient passage of water and removal of sediment.
- D. Stone to be 2" in size and clean, since fines would clog the cloth.

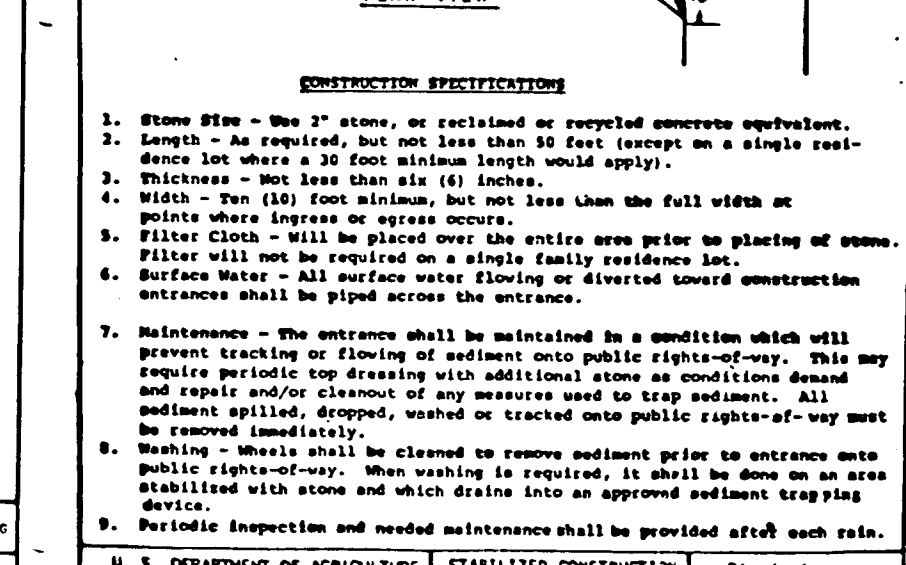
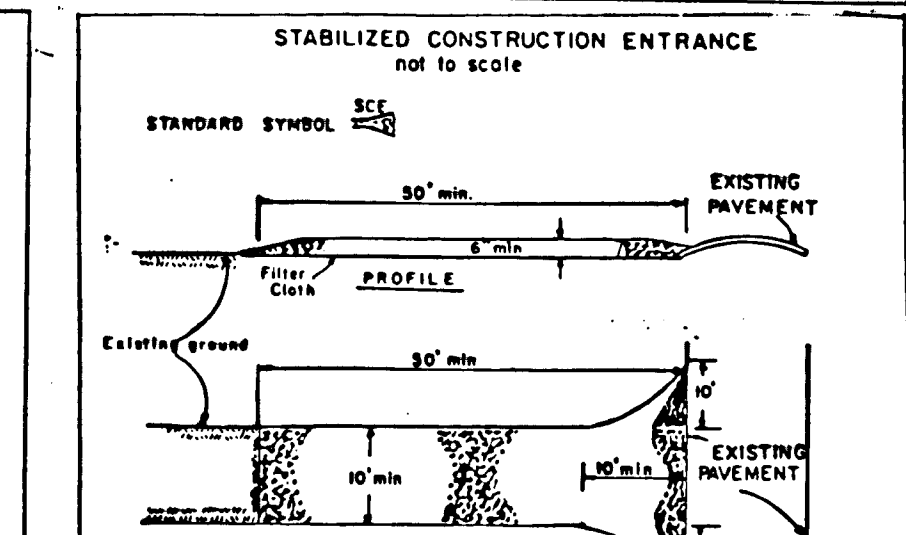
MAXIMUM DRAINAGE AREA = 0.80 ACRES (1/2 AC)

II. Procedure

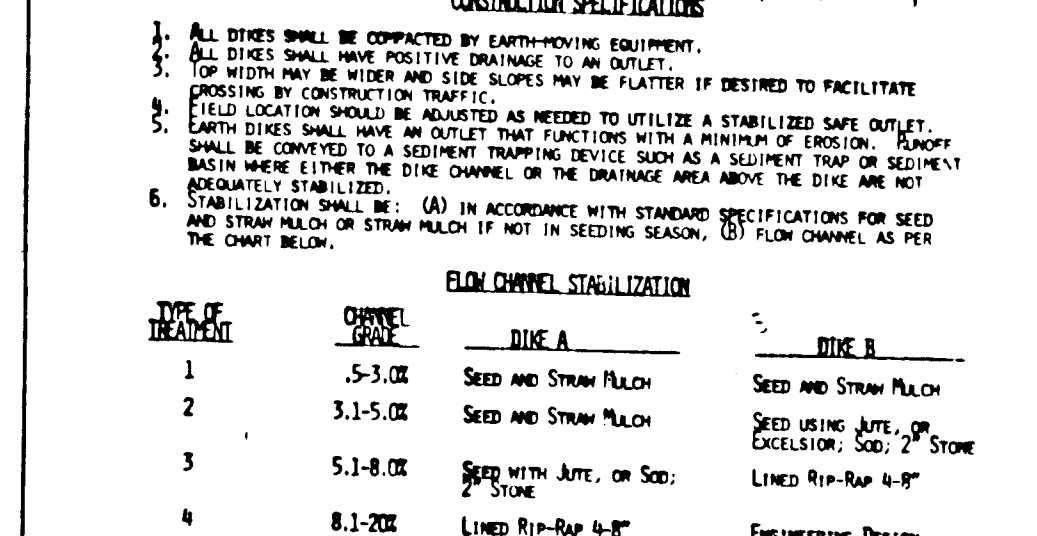
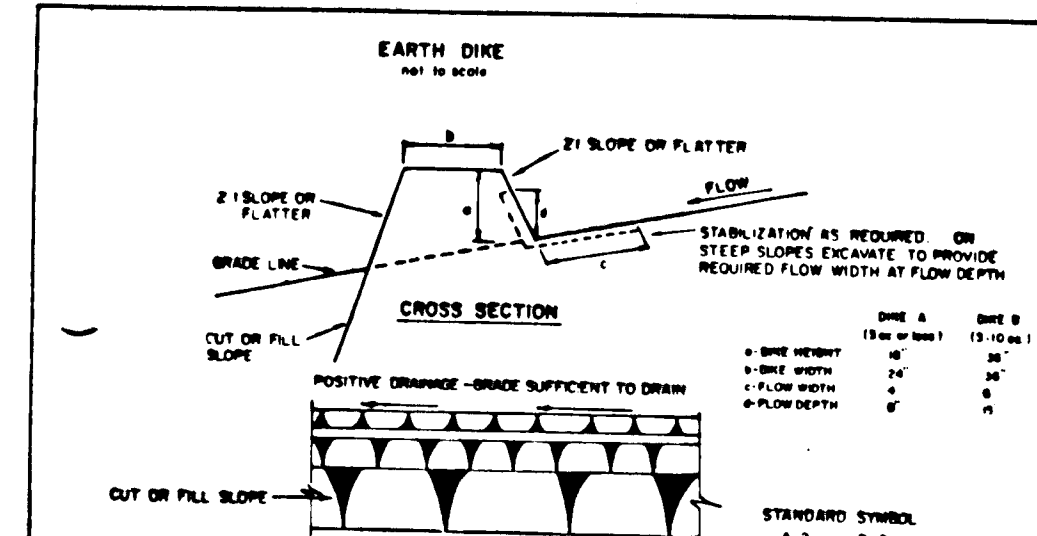
- A. Excavate, ditchline or yard inlet protection.
 1. Excavate completely around inlet to a depth of 18" below notch elevation.
 2. Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
 3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.



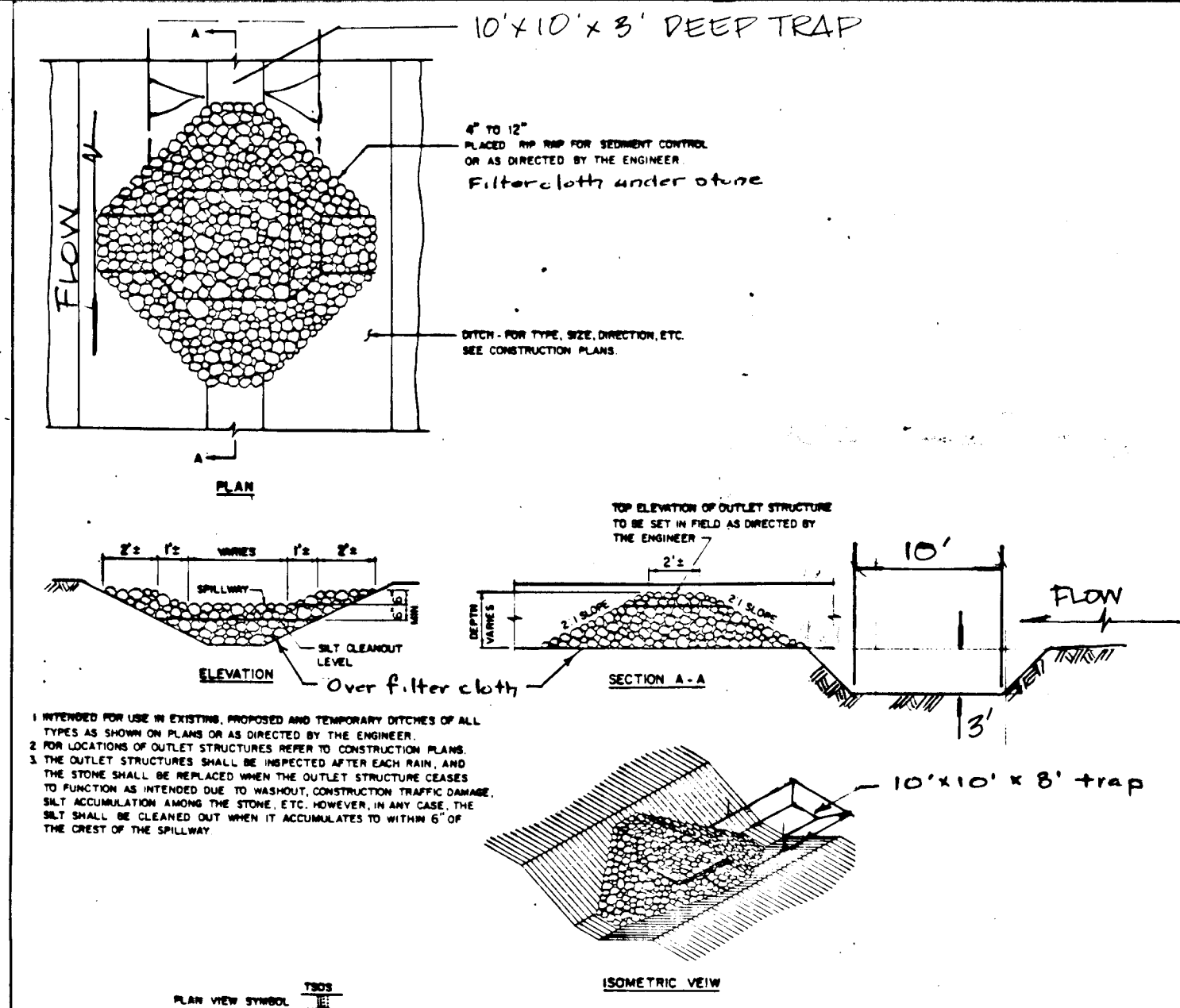
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND



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



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



APPROVED	DATE	DESIGNER	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION
[Signature]	1-28-86	[Signature]	STANDARD NO. MD-368.24

APPROVED: FOR PRIVATE WATER, PRIVATE SEWER & PUBLIC DRAINAGE SYSTEMS & ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 1-28-86
 [Signature] CHIEF, BUREAU OF ENGINEERING
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE: 1-28-86
 [Signature] CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

NOTE: THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, 2) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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[Signature] 12/19/85
 DATE

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[Signature] 12/19/85
 DATE

REVIEWED FOR: HOWARD S.C.D.
 NAME: [Signature]
 AND MEETS TECHNICAL REQUIREMENTS
 DATE: 1-28-86
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR THE HOWARD SOIL CONSERVATION DISTRICT

[Signature] 1/28/86
 DATE

#1194

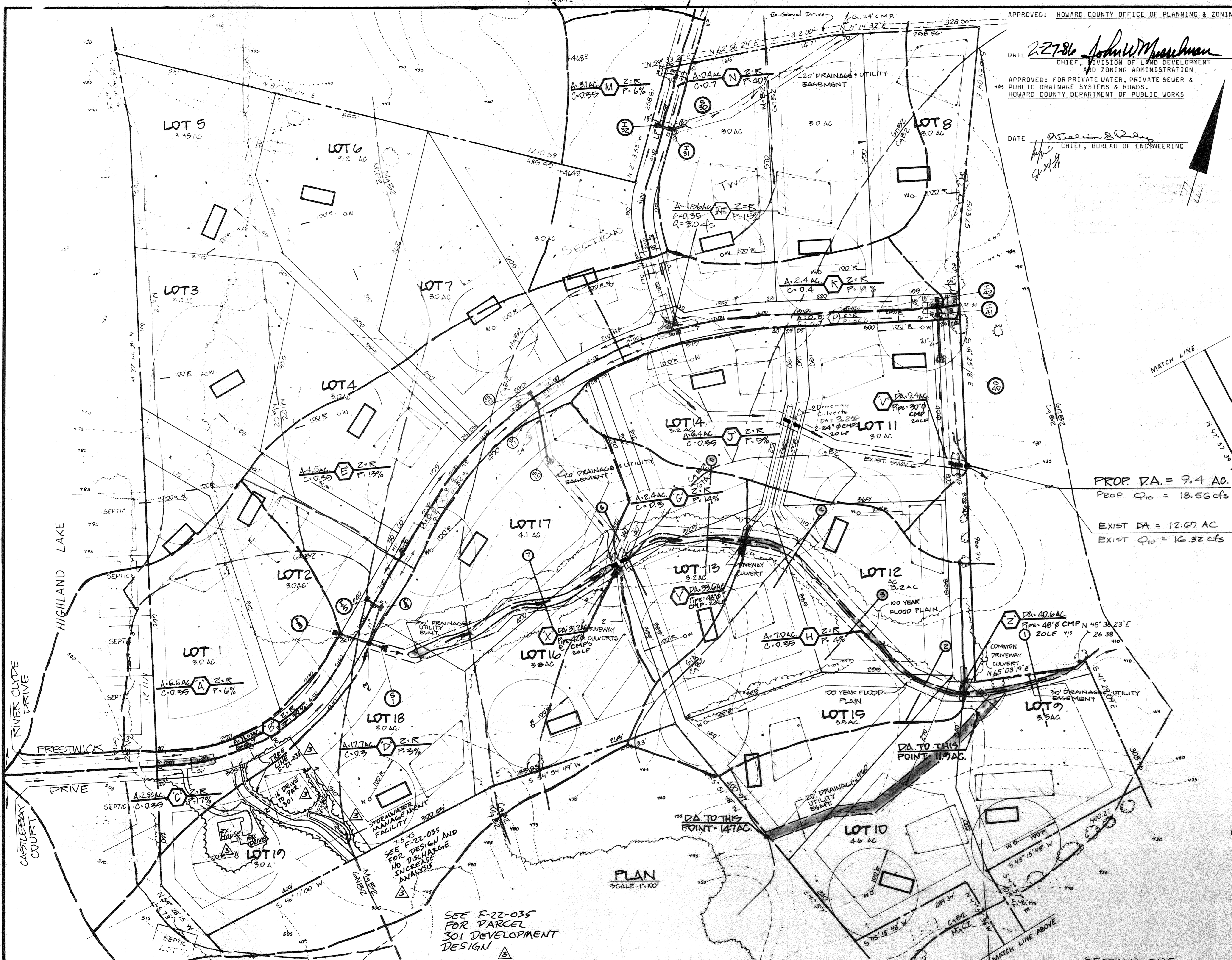
Owner/Developer: (CONTRACT)	NO.	REVISIONS	DATE
JRD DEVELOPMENT, INC. P.O. BOX 208 CLARKSVILLE, MD 21029 301-581-5539			



DEVELOPMENT CONSULTANTS GROUP, INC.
 17904 GEORGIA AVENUE # 102
 OLNEY, MARYLAND 20832
 301-924-4570

SOIL EROSION, SEDIMENT CONTROL DETAILS AND SPEC'S		DATE	Sheet
SECTION ONE		1/28/86	5
GREENE FIELDS			of 7
5TH ELECTION DISTRICT			
HOWARD COUNTY, MARYLAND			
SCALE AS SHOWN	PROJECT NO.		196-01

F-86-102 DCG# 136-01

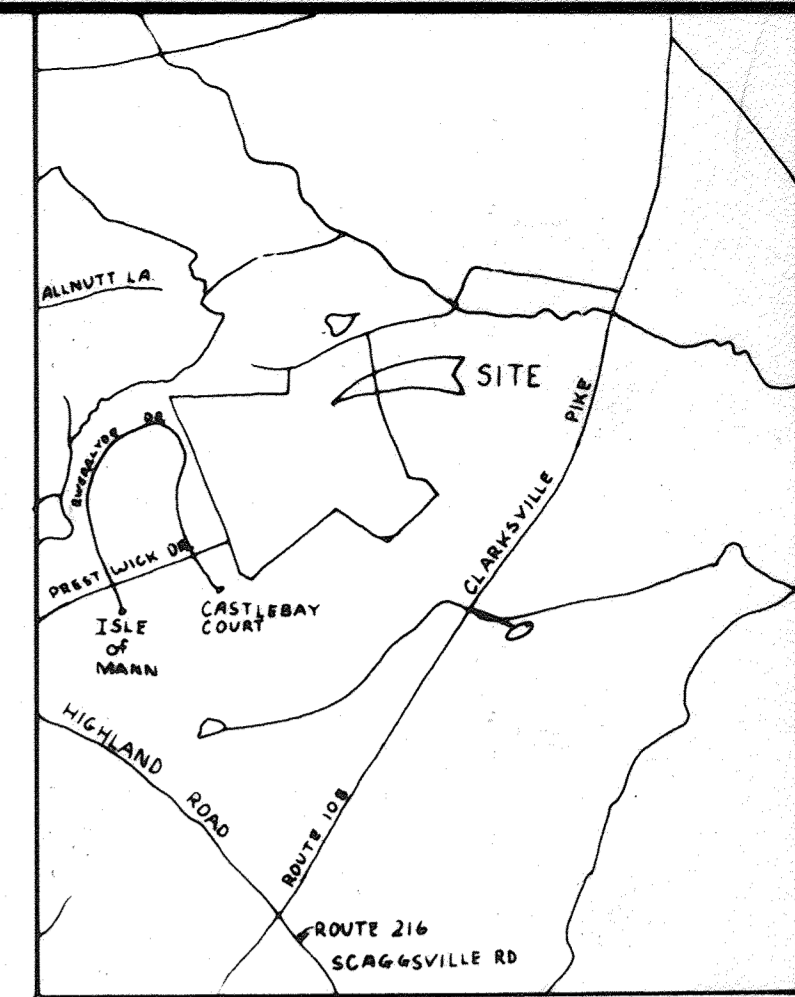


APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE 2-27-86 John W. Marshall
 CHIEF, DIVISION OF LAND DEVELOPMENT
 AND ZONING ADMINISTRATION

APPROVED: FOR PRIVATE WATER, PRIVATE SEWER &
 PUBLIC DRAINAGE SYSTEMS & ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 1/2/88 David R. Ray
 CHIEF, BUREAU OF ENGINEERING



VICINITY MAP
 SCALE 1" = 2000'

DEVELOPER'S CERTIFICATE

"I/VE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION
 WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY
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 PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION
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Richard J. Bennett 12-20-85
 DATE

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 BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDI-
 TIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH
 THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION
 DISTRICT."

John W. Marshall 12/20/85
 DATE



PROP. P.A. = 9.4 AC.
 PROP Q₁₀ = 18.56 cfs

EXIST DA = 12.67 AC
 EXIST Q₁₀ = 16.32 cfs

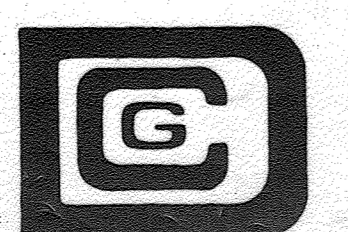
RTE. 108
 FUTURE 80' R/W

- NOTE:
1. See sheet 7 of 7 for profile & cross section of flood plain
 2. All driveway culverts to be 14 ga. ZOLF.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 45577 Expiration Date: 06-08-24

Owner: CONTRACT	NO.	REVISIONS	DATE
JRD DEVELOPMENT, INC. P.O. BOX 208 CLARKSVILLE, MD. 21029 301-531-5537	1.	DRIVEWAY CULVERTS REVISED LOTS 12 & 13	6-11-86
	2.	3.4' BEI SHOW ACCESS TO PARCEL 301 + STORMWATER MANAGEMENT PER F-22-035	10-7-86
			07-25-2023



DEVELOPMENT CONSULTANTS GROUP, INC.

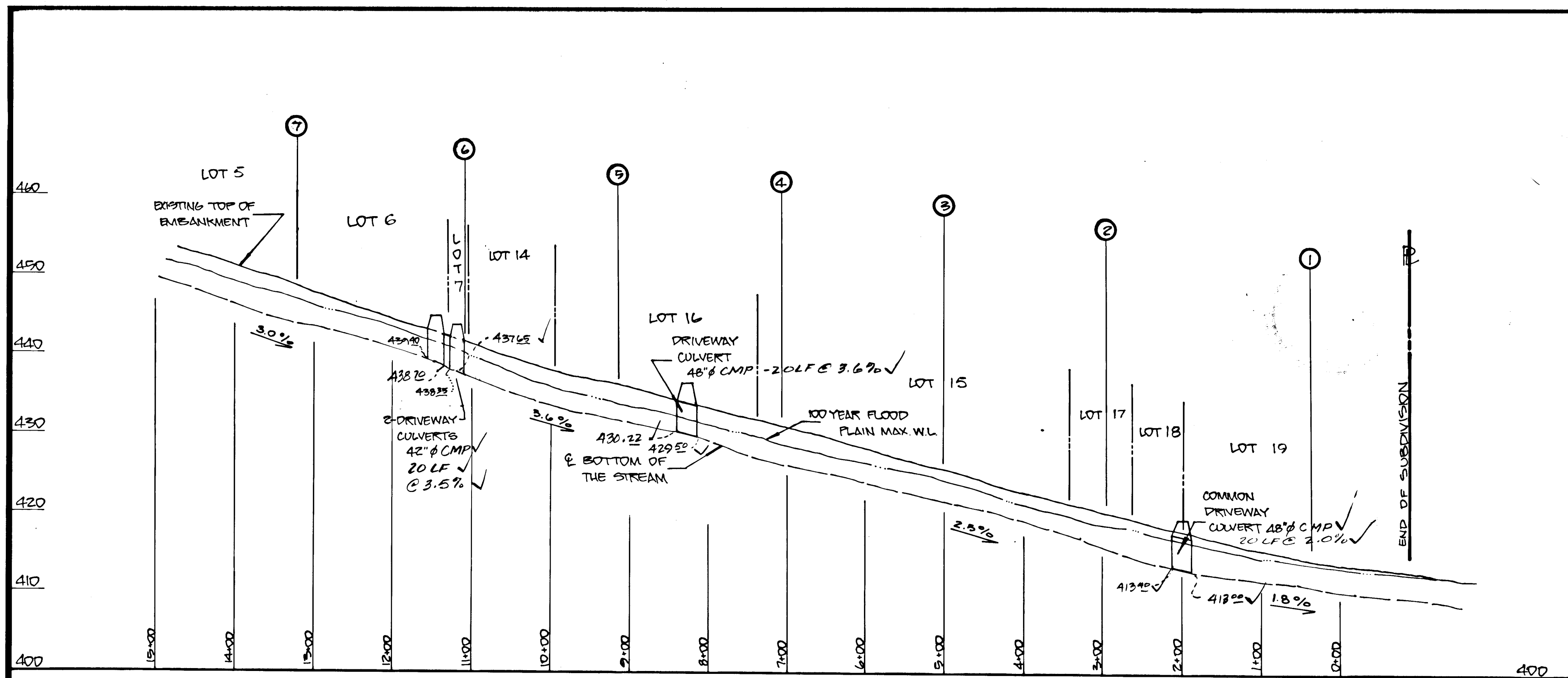
17904 GEORGIA AVENUE SUITE 102
 OLNEY, MARYLAND 20832
 301-924-4570

SECTION ONE
 DRAINAGE & 100 YEAR FLOOD PLAIN MAP
GREENE FIELDS
 ELECTION DISTRICT NO. 5
 TAX MAP 34 PARCEL 75 + 318
 HOWARD COUNTY, MARYLAND

DATE	Sheet
DEC. 1985	G
DRAWN	of 7
MIKE L.	
CHECKED	PROJECT NO.
M.L.S.	136-01
SCALE	
1" = 100'	

#1194

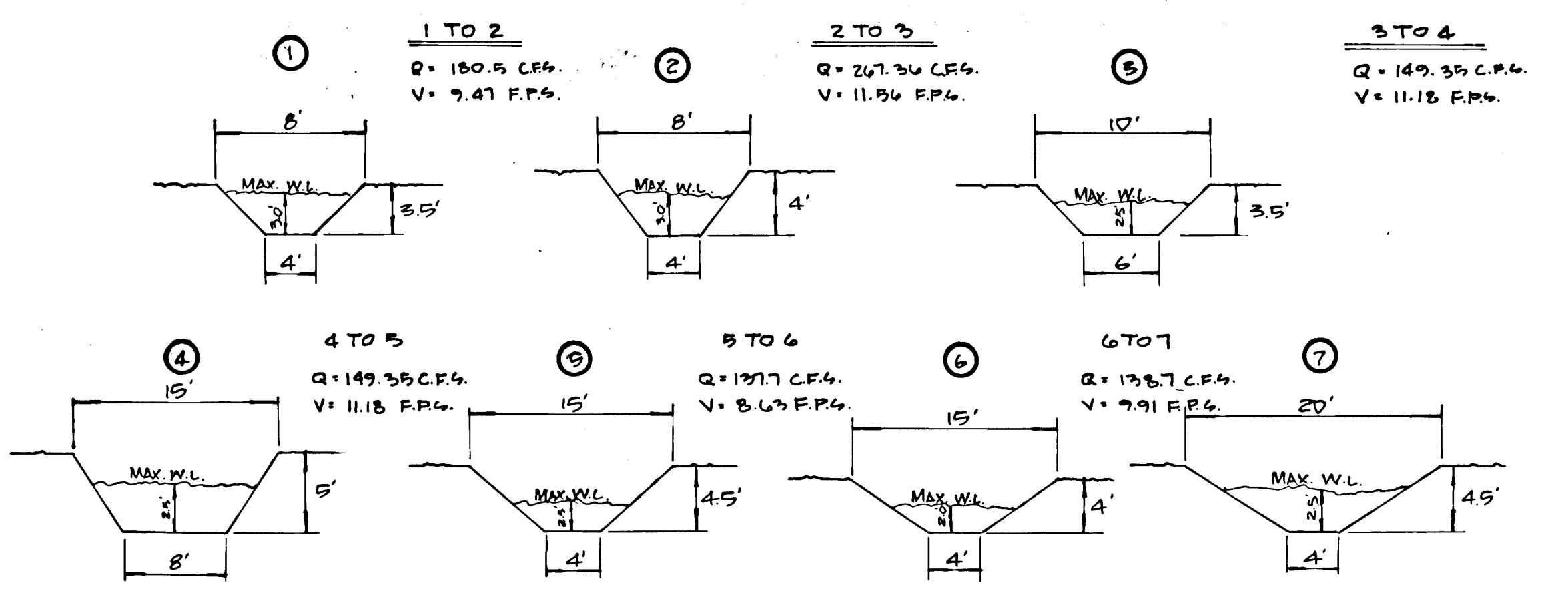
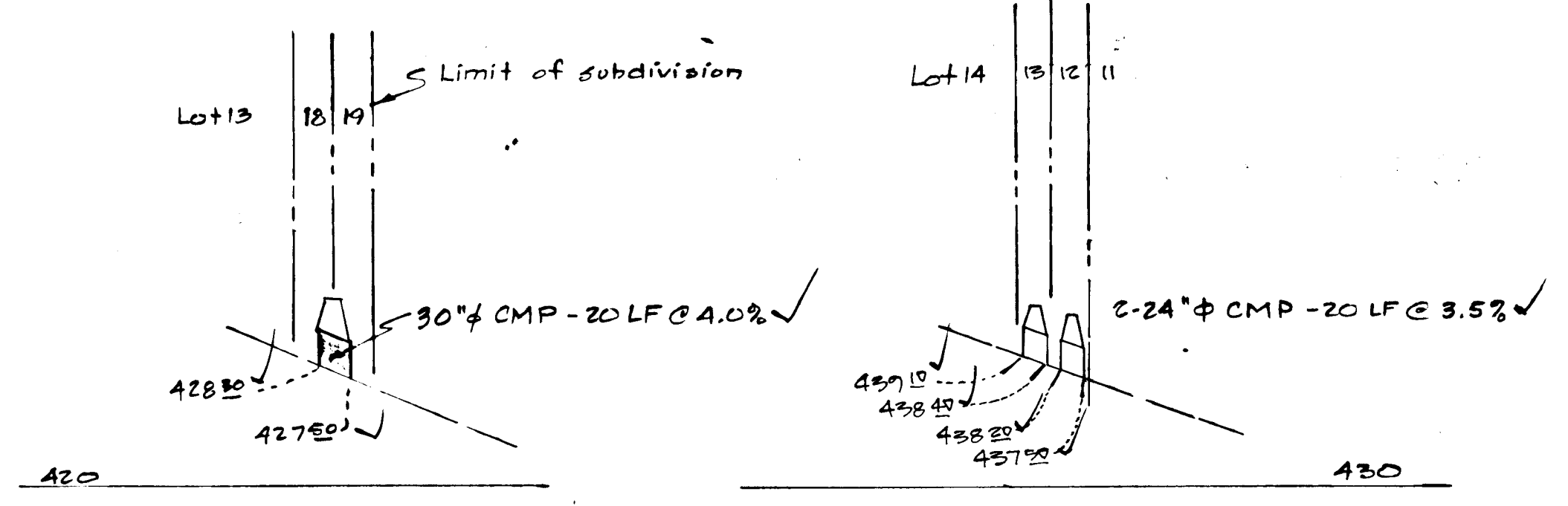
F-86-102



PROFILE OF EXIST. SWALE

SCALE: HORIZONTAL: 1"=100'
VERTICAL: 1"=10'

Note:
All driveway culverts to be 14ga-20LF.



EXIST. SWALE CROSS SECTIONS
(NO SCALE)

DEVELOPER'S CERTIFICATE

"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."

Richard J. Demmitt 12-19-85
DATE

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 REQUIREMENTS OF THE HOWARD SOIL CONSERVATION ACT."

John S. Schmitt 12/20/85
DATE
PROFESSIONAL ENGINEER
NO. 11409
REGISTERED PROFESSIONAL ENGINEER
STATE OF MARYLAND

A-BUILD SURVEY CERTIFIED BY
DELU SCHWARTZ REG - P.E. NO. 11449
ON DEC. 20, 1985

APPROVED FOR PRIVATE WATER, PRIVATE SEWER & PUBLIC DRAINAGE SYSTEMS & ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE *12/20/85*
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE *1-28-86* *John W. Musickman*
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

#1194

Owner/Developer: CONTRACT
JRD DEVELOPMENT, INC.
PO BOX 208
CLARKSVILLE, MD 21027
301-931-9537

NO.	REVISIONS	DATE
1	DRIVEWAY CULVERTS REVISED LOTS 12, 13	6-11-86
2	" " " " " " 15, 16	10-7-86



DEVELOPMENT CONSULTANTS GROUP, INC.
17904 GEORGIA AVENUE # 102
OLNEY, MARYLAND 20832
301-924-4570

PROFILES AND CROSS SECTIONS
100 YEAR FLOOD PLAIN - LOTS 11, 12, 14, 15, 16, 17, 21, 22
GREENE FIELDS
CLARKSVILLE ELECTION DISTRICT
TAX MAP 24 PARCELS 15, 16
HOWARD COUNTY, MARYLAND

DATE DEC 1985	Sheet 7
DRAWN M.N.L.	of 7
CHECKED M.L.S.	PROJECT NO. 136-01
SCALE AS SHOWN	