

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 - MISS UTILITY 1-800-257-7777
 - BELL TELEPHONE SYSTEM 393-3649
 - LONG DISTANCE CABLE DIVISION 393-3553 or 3554
 - BALTIMORE GAS AND ELECTRIC CO. 539-8000 ext. 691
 - COLONIAL PIPELINE 795-1390
 - HOWARD COUNTY BUREAU OF UTILITIES 992-2366
 - HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION 792-7272 (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 35.0' RADIUS UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE DESIGN MANUAL.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATE OF STATE HIGHWAY OFFICIAL STANDARDS:
 - ALL 50' RIGHT-OF-WAYS = 30 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT \ominus ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R PER 8-2-85 COMPREHENSIVE ZONING PLAN.
- TOPO TAKEN FROM FIELD RUN SURVEY BY MAISTE-WATTS, INC. DATE 1 MAR 90
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS C AS SHOWN IN FIG. 11.4, VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- SEE DEPT. OF PLANNING AND ZONING FILE NO. 5-90-04 P 90-18
- BUILDABLE LOTS 7
OPEN SPACE LOTS 2
- A REVISION TO THIS PLAN WILL BE REQUIRED SHOULD CONSTRUCTION FOR THIS SITE BEGIN PRIOR TO F-90-95

C.L. CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	425.00'	111.70'	56.17'	111.38'	S24°53'13"W	15°03'32"
C2	109.62'	69.01'	35.69'	67.88'	S50°27'05"W	36°04'12"

"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."

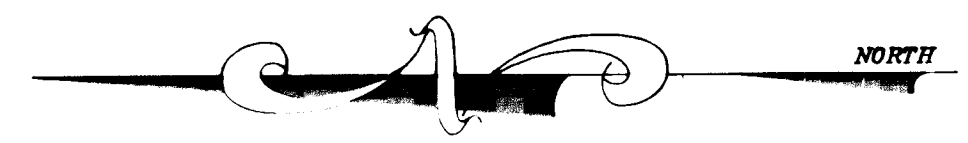
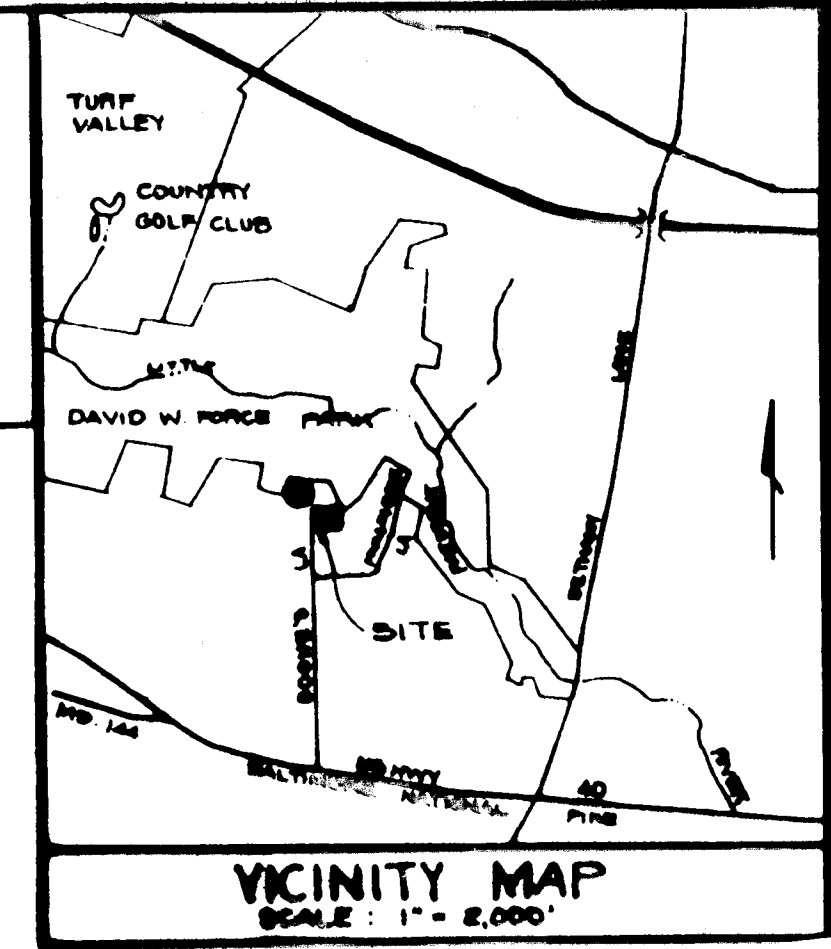
Signature of Engineer: *John C. Reilinger*
Print name below signature: **John C. Reilinger**

Date: 8-11-90

"I 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."

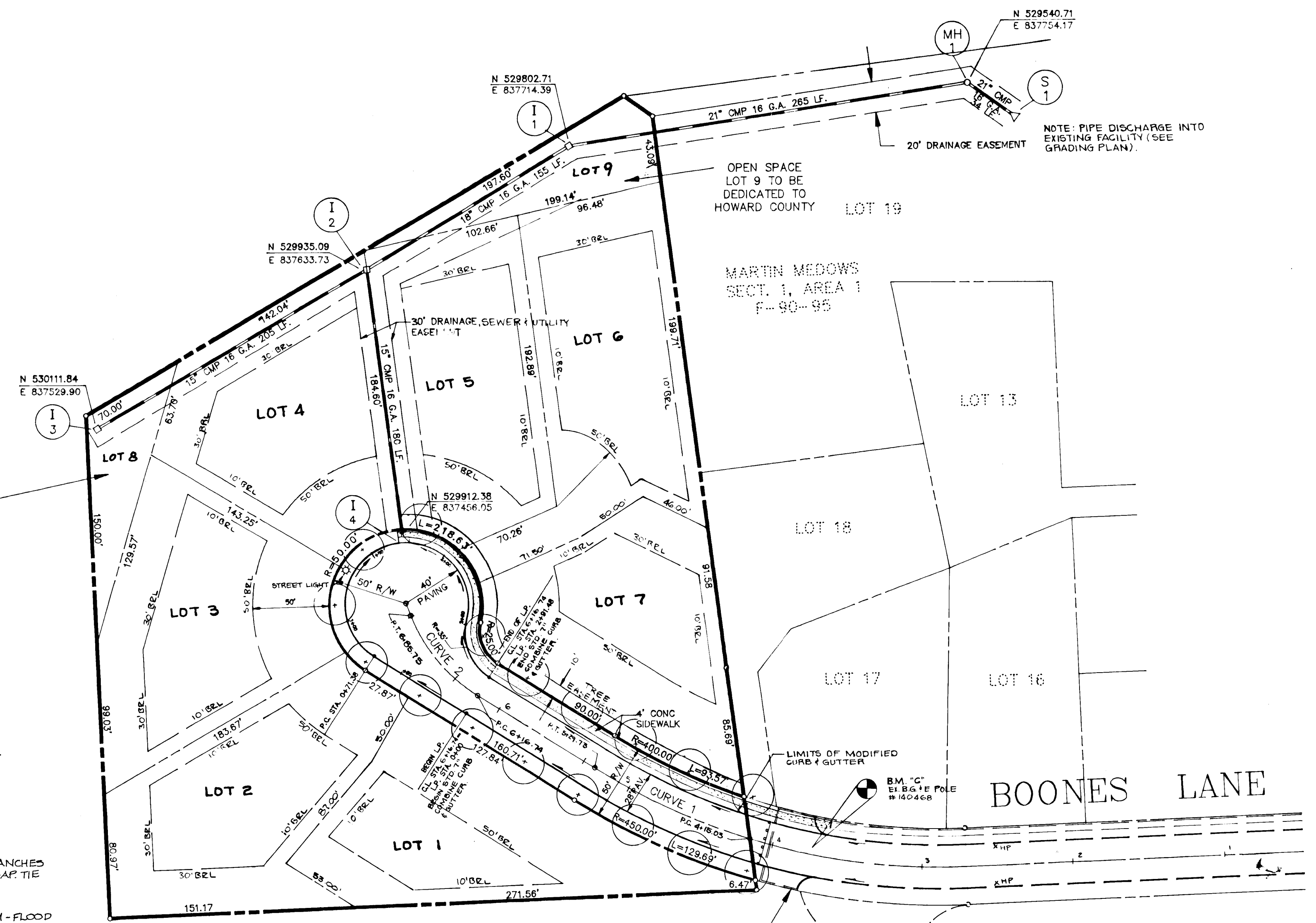
Signature of Developer: *David H. Axline*
Print name below signature: **David H. Axline**

Date: 8-11-90



E 837900
N 529400

PROPERTY OF
HOWARD CO. DEPT. OF
REC. AND PARK



DENSITY TABULATION

1. GROSS AREA	4.00 AC
2. FLOOD PLAIN AND 25% SLOPES	0
3. NET AREA	4.00 AC
4. NET NO. OF DWELLING UNITS ALLOWED	8
5. FLOOD PLAIN LOT ADJUSTMENT	0
6. TOTAL NUMBER OF UNITS ALLOWED	8
7. TOTAL NO. OF DWELLING UNITS PROPOSED	7
8. DENSITY PER ACRE	1.75
9. OPEN SPACE REQUIRED	0
10. OPEN SPACE PROVIDED	0.25 AC
11. DRY GROUND OPEN SPACE PROVIDED	0.25 AC

TOTAL TABULATION THIS PLAT

TOTAL NUMBER OF LOTS TO BE RECORDED	7+2=9
TOTAL AREA OF LOTS TO BE RECORDED	3.55 AC
TOTAL AREA OF ROADWAY TO BE RECORDED	0.444 AC
TOTAL AREA OF PLAT TO BE RECORDED	4.000 AC

NO.	BY	REVISION	DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Alan M. Dorman 9/12/90
CHIEF, LAND DEVELOPMENT DIVISION #10 DATE

Granville W. Wellens 9/5/90
CHIEF, BUREAU OF HIGHWAYS DATE

McAdams 9-12-90
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark J. Campbell 9/2/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

PROJECT NAME: **GREENBRIAR MANOR**
SECTION ONE / AREA ONE, LOTS 1 - 9
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND.

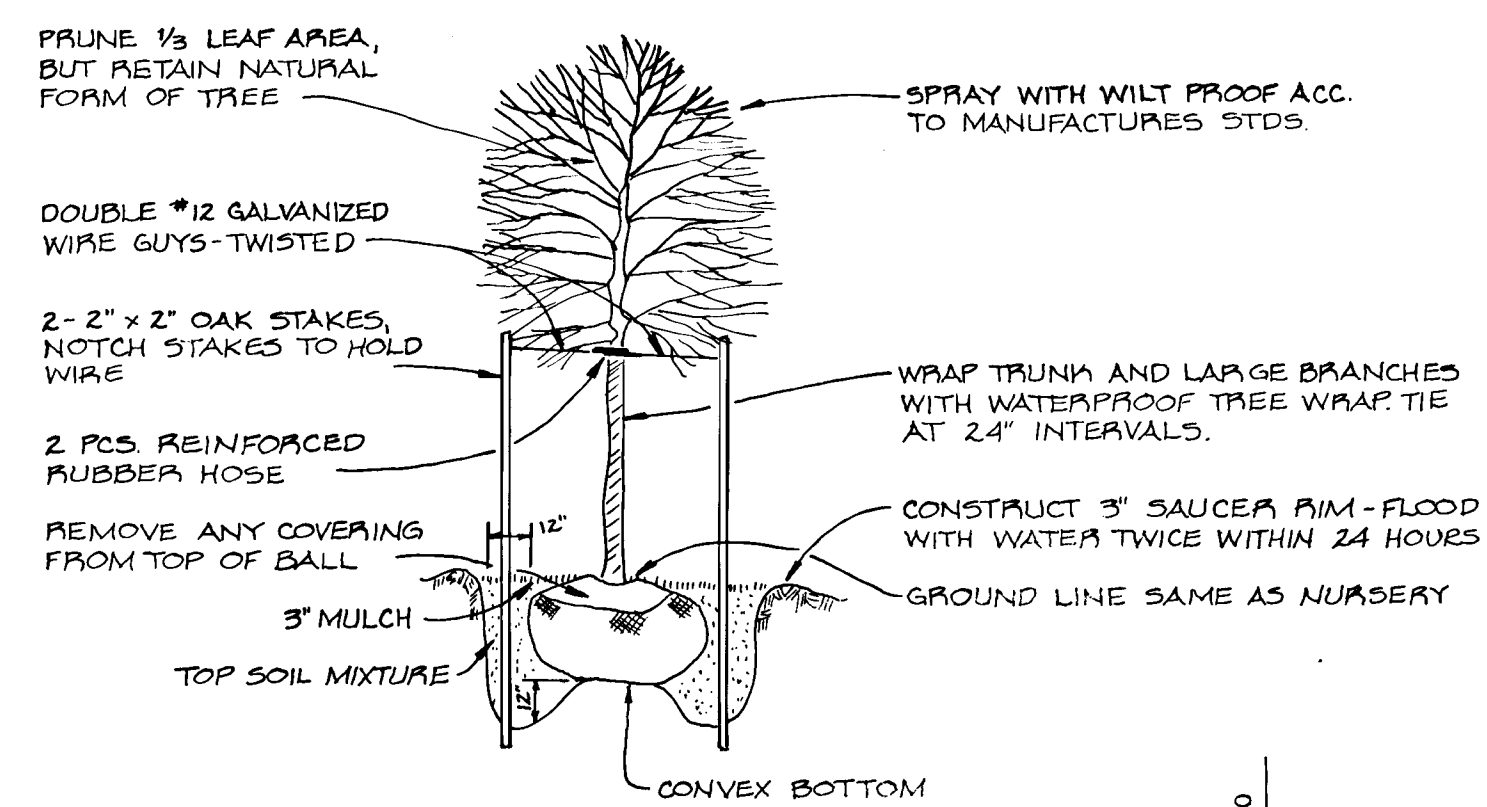
TITLE: **ROAD PLAN**
OWNER: DAVID H. AXLINE
3023 BOONES LANE
ELLCOTT CITY, MD. 21043

PREPARED BY: **American Engineering Inc.**
871-A MAIN STREET
LAUREL, MARYLAND 20707
(301) 953 1221 (301) 880 3039

DEVELOPER: AXLINE PROPERTY PARTNERSHIP
% LAND DESIGN & DEVELOPMENT
10805 HIGHOPRY RIDGE RD
SUITE 210
COLUMBIA, MD. 21044

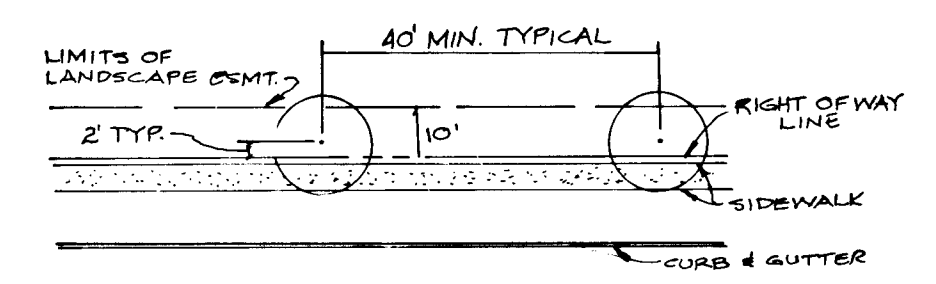
DES.: R.T.Jr. JOB: 89116
DRW.: W.D.F. PROJ.:
CHK.: D.C.W. DATE: 3-6-90

SCALE: 1" = 50'
SHEET 1 OF 7



DECIDUOUS TREE PLANTING DETAIL
NO SCALE

PROPERTY OF
BOARD OF COMMISSIONERS
437/540



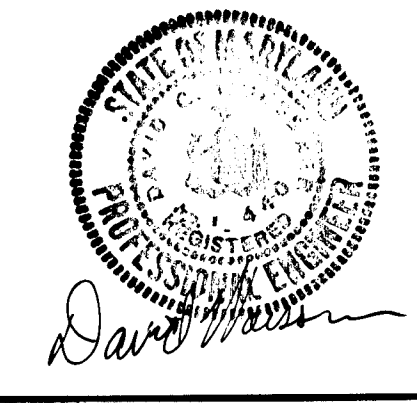
TYPICAL STREET TREE PLANTING
NO SCALE

PLAN
SCALE: 1" = 50'

SHEET INDEX

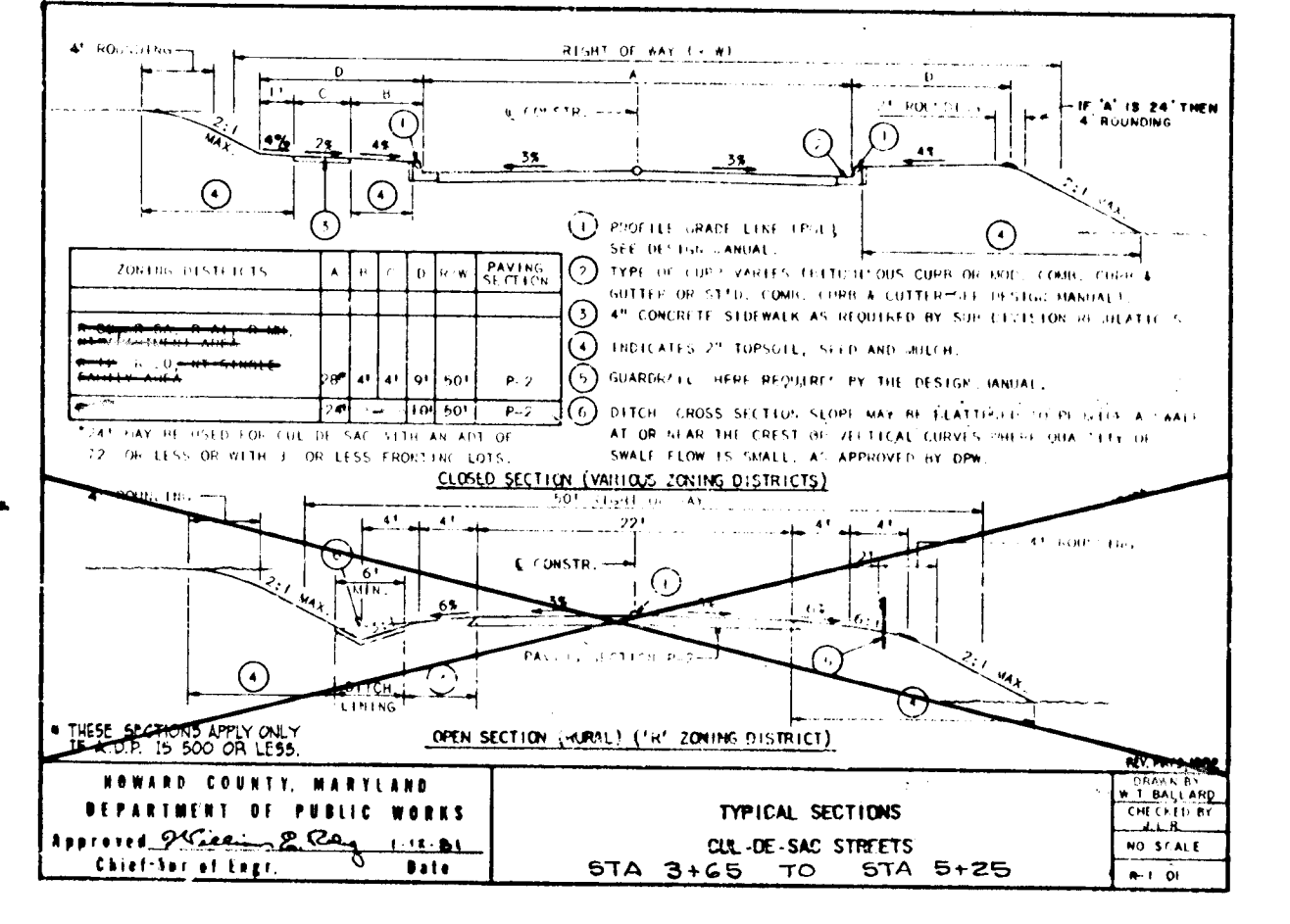
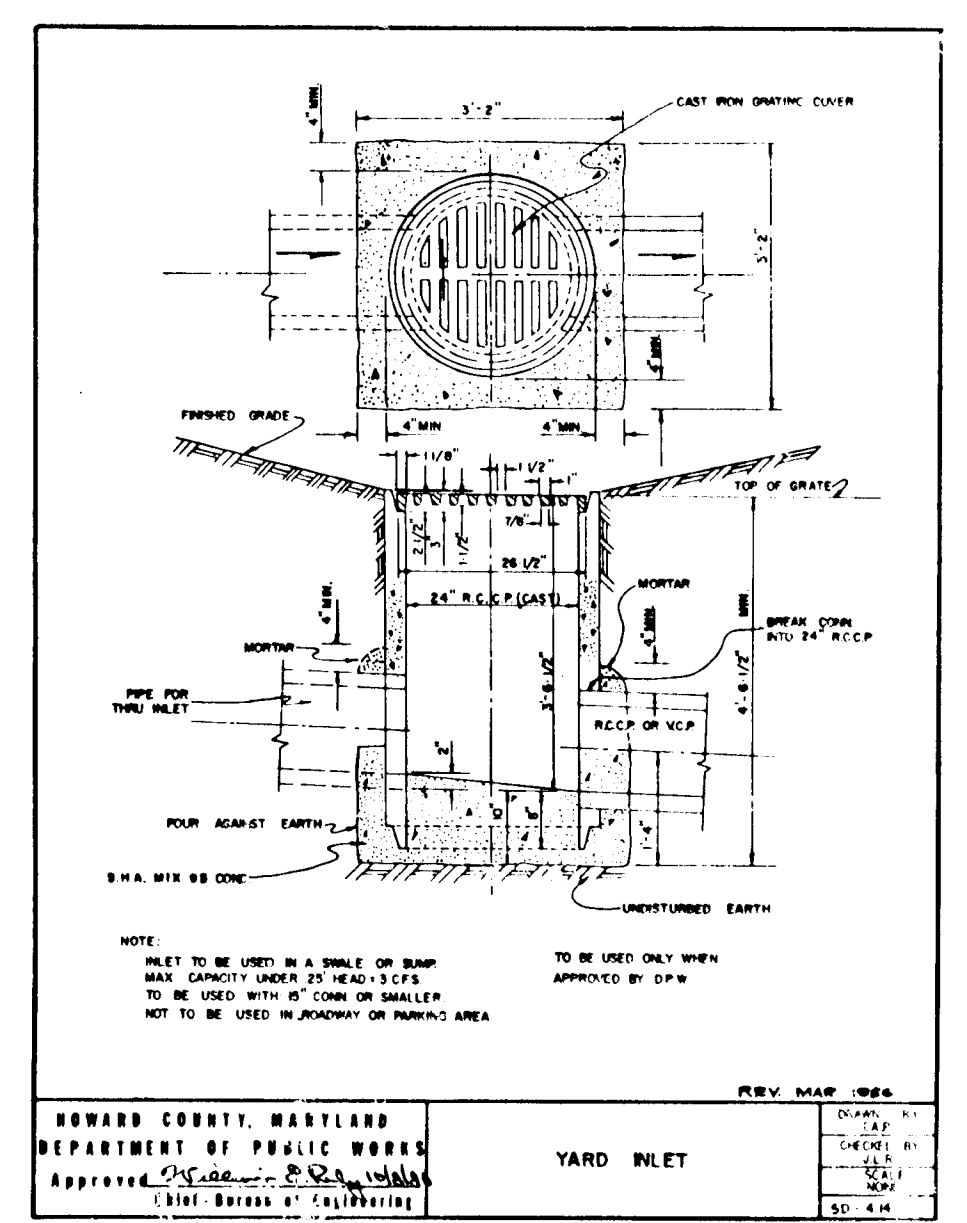
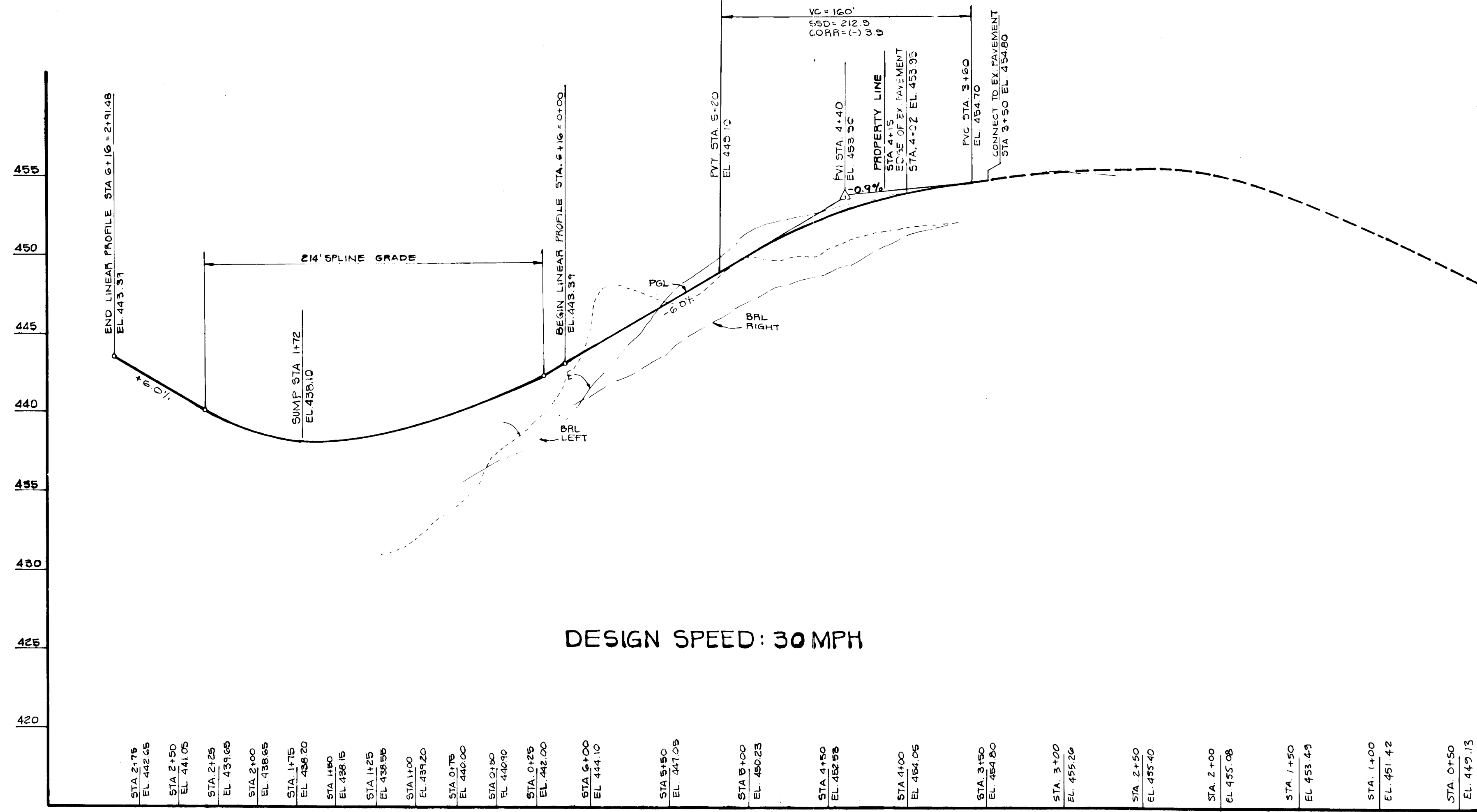
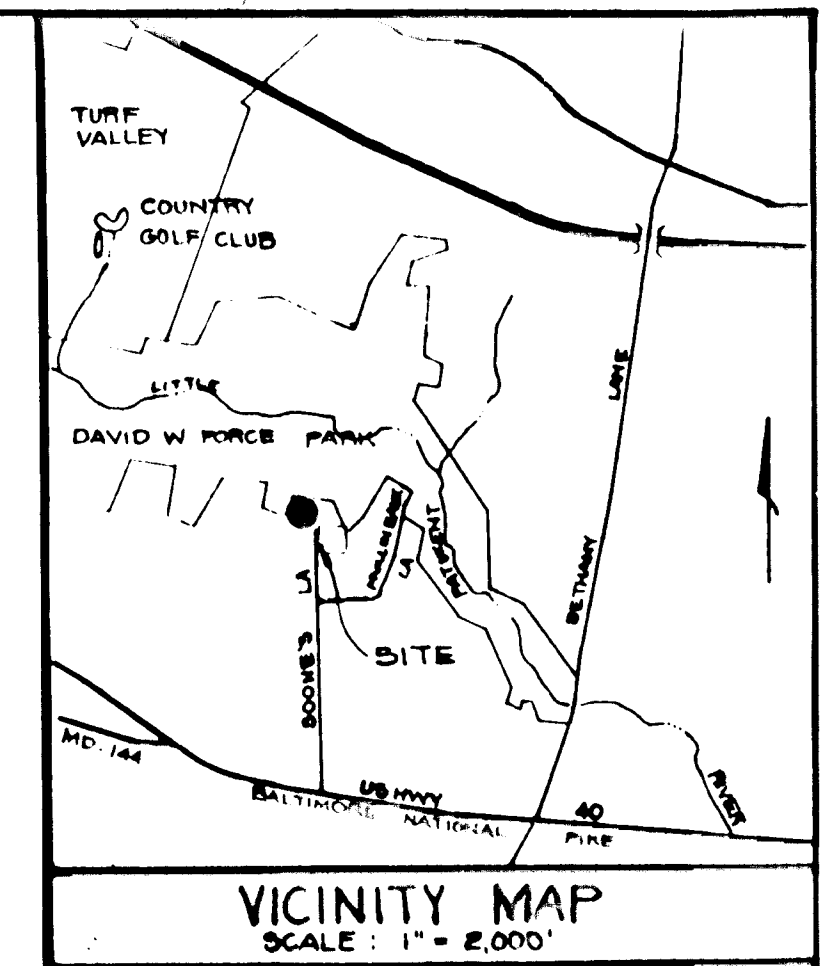
SHEET NUMBER	DESCRIPTION
1	Road Plan Views
2	Road Profiles
3	Storm Drain Profiles
4	Drainage Area Map
5	Grading & Sediment Control
6	Sediment Control Details
7	Soils Map

PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
	17	SUGAR MAPLE	2 1/2" MIN. CAL. 54" B. FULL HEAD



F-90-145

NO.	BY	REVISION	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
	<i>Alan M. Longano</i>		9/17/90
	CHIEF, LAND DEVELOPMENT DIVISION		DATE
	<i>Granville W. Welland</i>		9/5/90
	CHIEF, BUREAU OF HIGHWAYS		DATE
	<i>William B. ...</i>		9-18-90
	CHIEF, BUREAU OF ENGINEERING		DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
	<i>Frank J. ...</i>		9/21/90
	CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		DATE



BOONE'S LANE

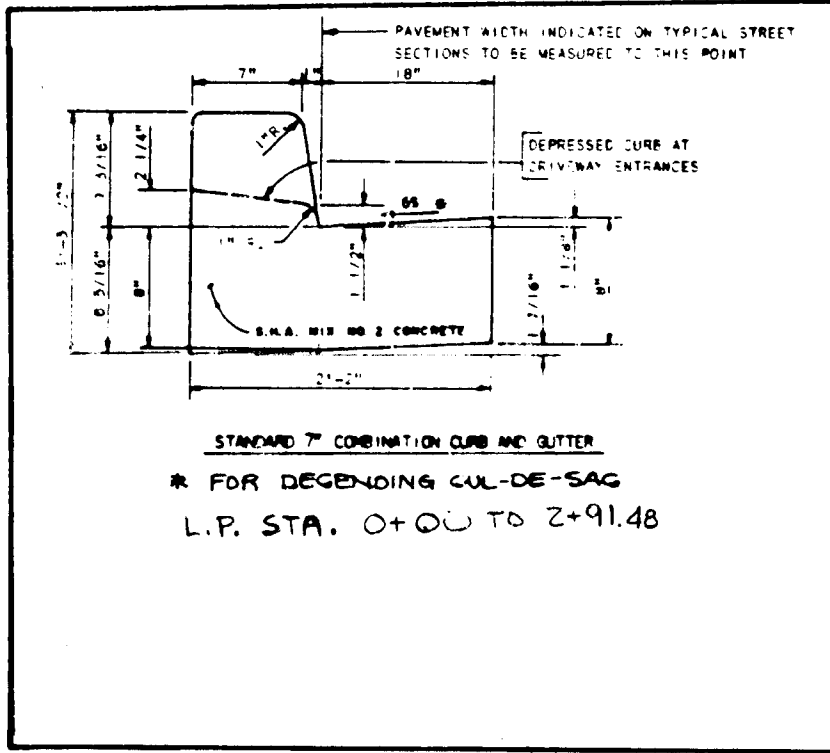
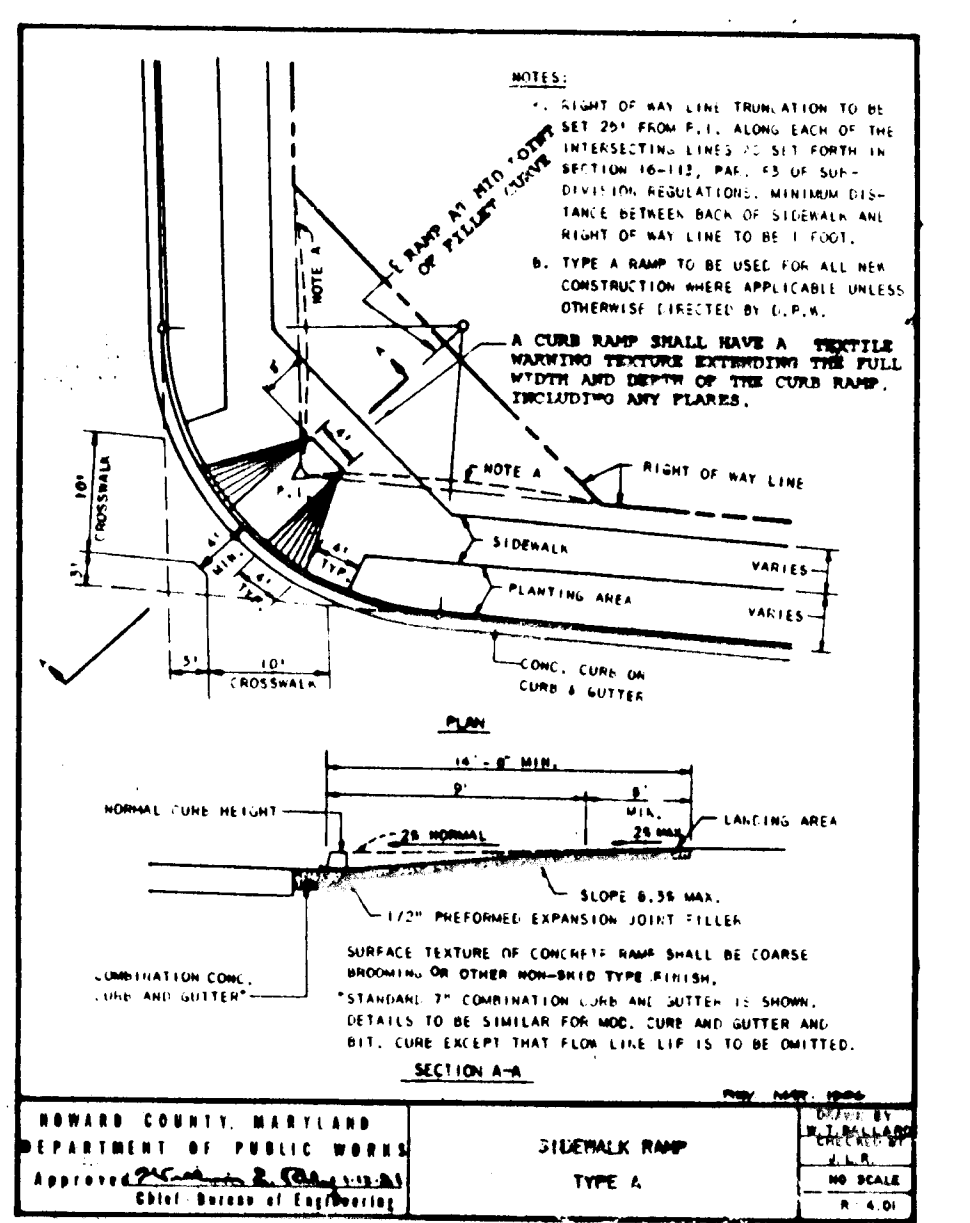
SCALE: 1" = 5' VERT.
1" = 50' HORIZ.

SOAKAWAY AS REQUIRED BY SUB DIV REGULATIONS

NOTES:
1. STANDARD CONC. CURB CURB BUTTER SHALL BE USED ON COMMERCE CUL-DE-SAC.
2. THE MAXIMUM GRADE OF THE CIRCULAR AREA IN ANY DIRECTION SHALL NOT EXCEED 5%.
3. A PROFILE SHALL BE PROVIDED ALONG THE TOP OF CURB FROM POINT B TO POINT A.

CLASSIFICATION	MIN. CURB HEIGHT	MIN. CURB WIDTH	MIN. CURB RADIUS
COMMERCIAL	24"	18"	20'
INDUSTRIAL	24"	18"	20'
RESIDENTIAL	24"	18"	20'
COMM. C&G	24"	18"	20'

FOR DESCENDING CUL-DE-SAC
L.P. STA. 0+00 TO 2+91.48



SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	GRANULAR BASE ALTERNATES
P-1	APARTMENT, INDUSTRIAL, COMMERCIAL, INDUSTRIAL ZONE WITH NO HEAVY TRUCKS	1 1/2" BIT. CONC. SURFACE 4" BIT. CONC. BASE	6" GRANULAR BASE 4" GRANULAR BASE
P-2	INDUSTRIAL ZONES, PRIVATE AND COMMERCIAL-INDUSTRIAL ZONE WITH HEAVY TRUCKS	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	8" GRANULAR BASE 4" GRANULAR BASE
P-3	INDUSTRIAL ZONES, LOCAL CONC. BASE FOR ALLEYS AND PRIVATE ROADS SERVING INDUSTRIAL ZONES WITH HEAVY TRUCKS	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	4" GRANULAR BASE 4" GRANULAR BASE
P-4	INDUSTRIAL ZONES, LOCAL CONC. BASE FOR ALLEYS AND PRIVATE ROADS SERVING INDUSTRIAL ZONES WITH HEAVY TRUCKS	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	4" GRANULAR BASE 4" GRANULAR BASE

AMERICAN ENGINEERING, INC.
671-A MAIN STREET LAUREL, MARYLAND 20707
301-953-1221 301-880-3039

OWNER:
DAVID H. AXLINE
3022 BOONE'S LANE
ELLCOTT CITY, MD. 21043

DEVELOPER:
AXLINE PROPERTY PARTNERSHIP
1/3 LAND DESIGN & DEVELOPMENT
10805 HIGHWAY RIDGE P.D.
SUITE 210
COLUMBIA, MD. 21044

PROJECT NAME:
GREENBRIAR MANOR
Section I Area 1
(LOTS 1-9) T.M. 82 L/F 440/90
2 Election District
Howard County, Maryland

TITLE:
ROAD PROFILE
5-90-04 P-10-1B

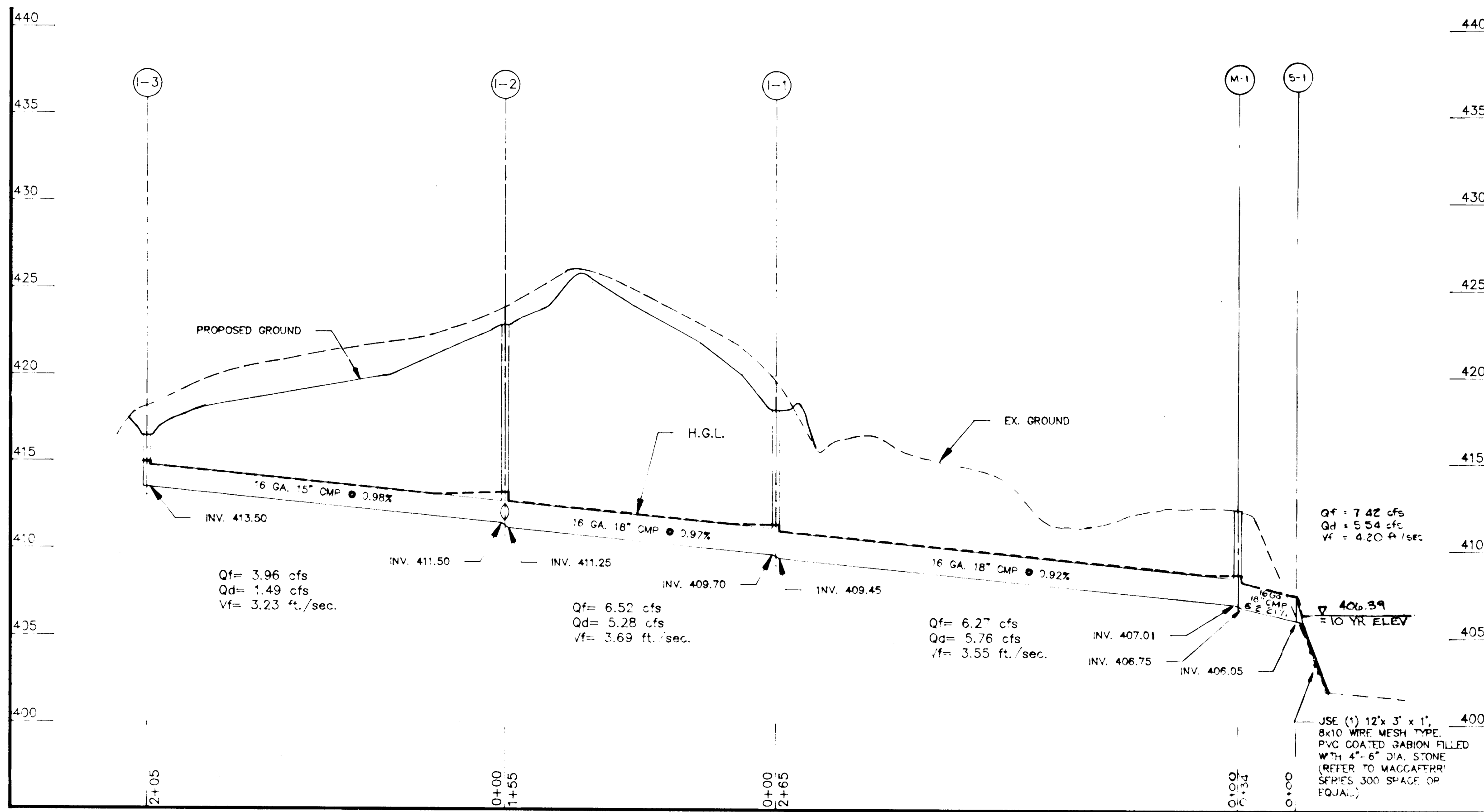
DATE: 6/28/89 **PROJECT:** PS89116
SCALE: 1" = 50' (VERT.) 1" = 50' (HORIZ.)

DES. DW. DRW.

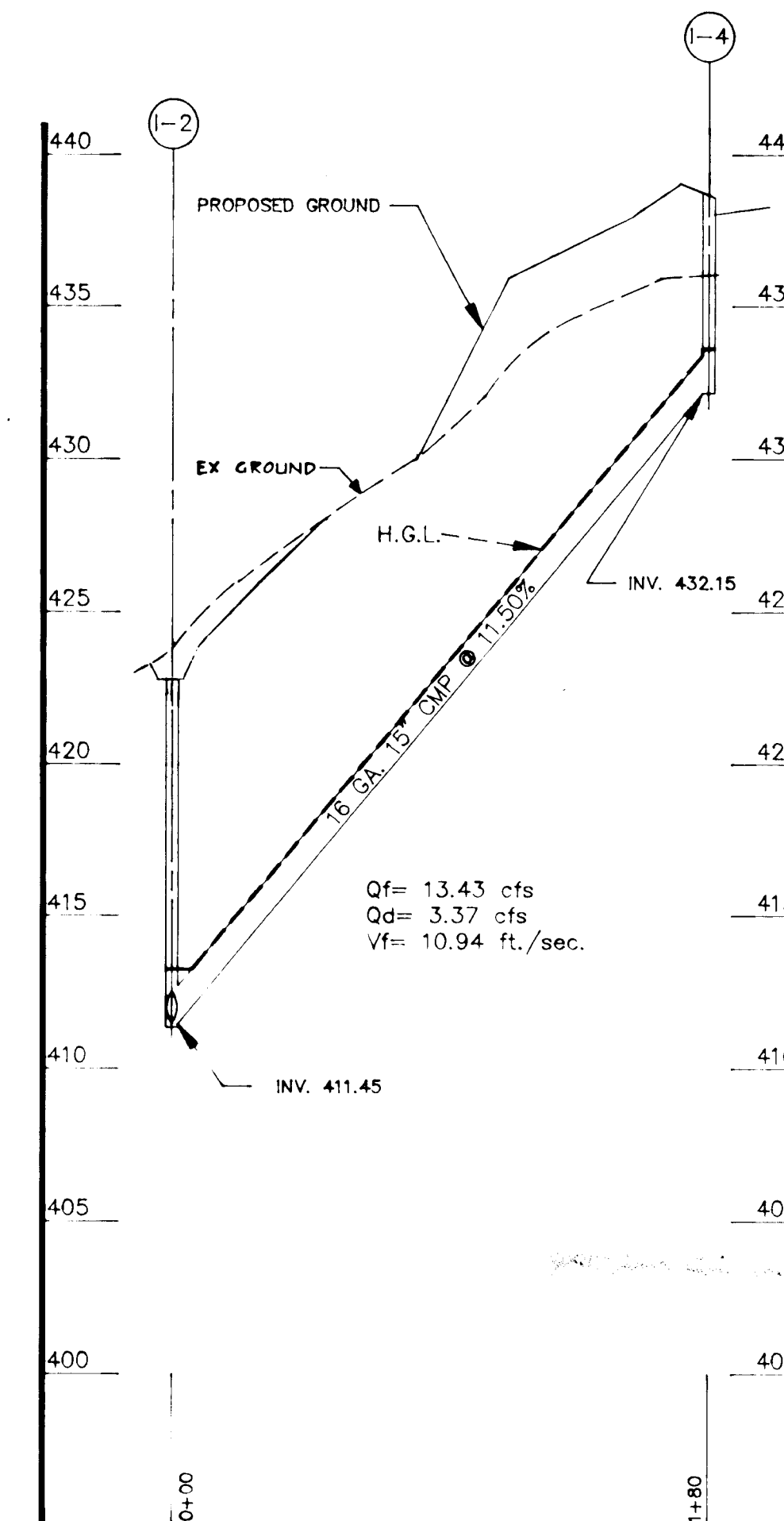
1562

F-90-145

NO.	BY	REVISION	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
	<i>Oliver M. Johnson</i>		9/11/90
	CHIEF, LAND DEVELOPMENT DIVISION		DATE
	<i>Lawrence W. Weiland</i>		9/15/90
	CHIEF, BUREAU OF HIGHWAYS		DATE
	<i>William S. Rine</i>		9-18-90
	CHIEF, BUREAU OF ENGINEERING		DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
	<i>Mark V. Taylor</i>		9/15/90
	CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		DATE



Profile
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



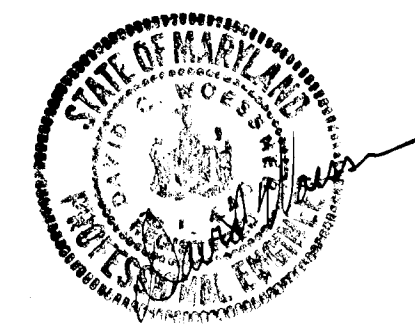
Profile
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

"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."

David C. Mann 8/15/90
Signature of Engineer

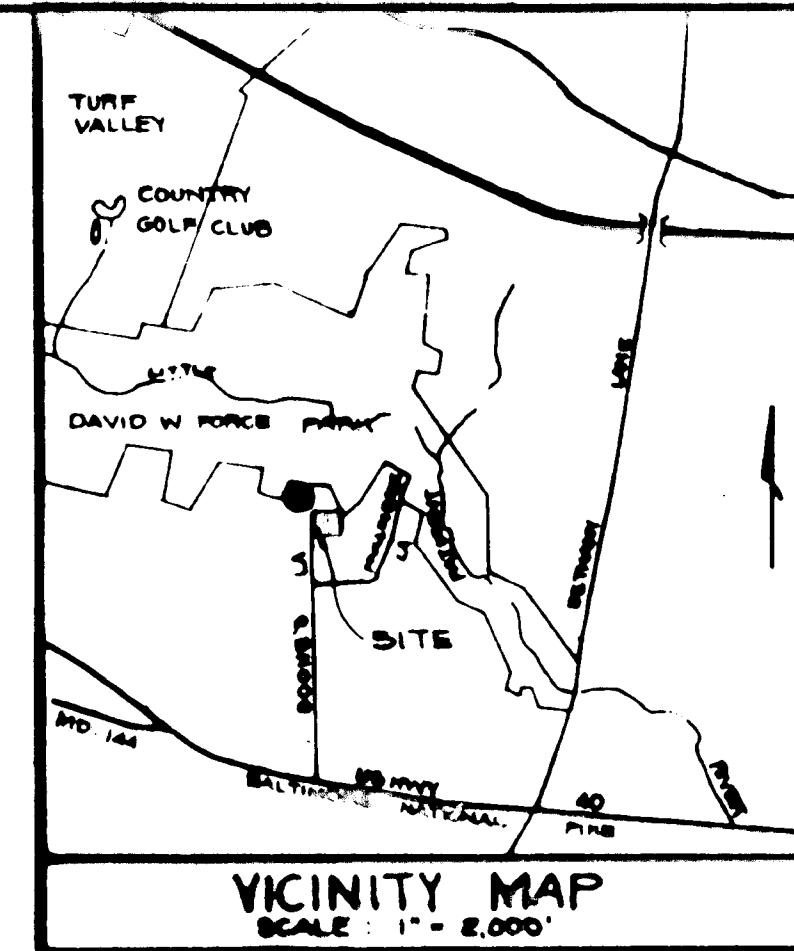
"I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion 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."

John C. Revwer 8-11-90
Signature of Developer

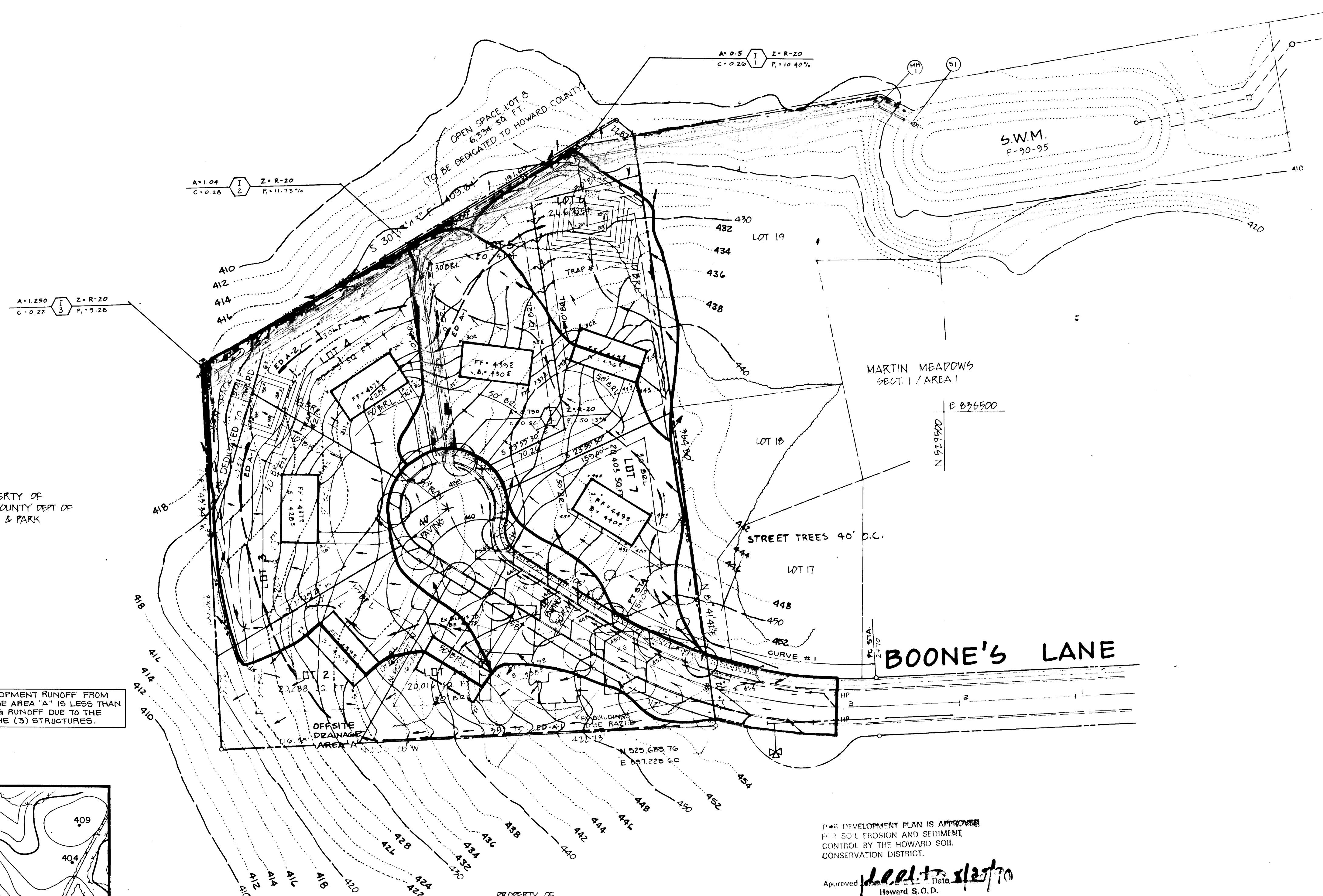


NO.	REVISION	DATE	BY	PREPARED BY:	STORM DRAIN PROFILE GREENBRIAR MANOR (LOTS 1-9) 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE: AS SHOWN	SHEET NO.
				AMERICAN ENGINEERING, INC. CIVIL ENGINEERING CONSULTANTS AND LAND PLANNER		DESIGN: R.A.B.	3
				671-A MAIN STREET LAUREL, MARYLAND, 20707.	JOB NO.: 89116 FILE NO.:	DRAWN: W.D.F.	OF
				BALT. (301) 880-3039 WASH. (301) 953-1221		CHECKED: R.A.	7
						CHECKED: D.C.W.	DATE: 2-18-90

F-90-145

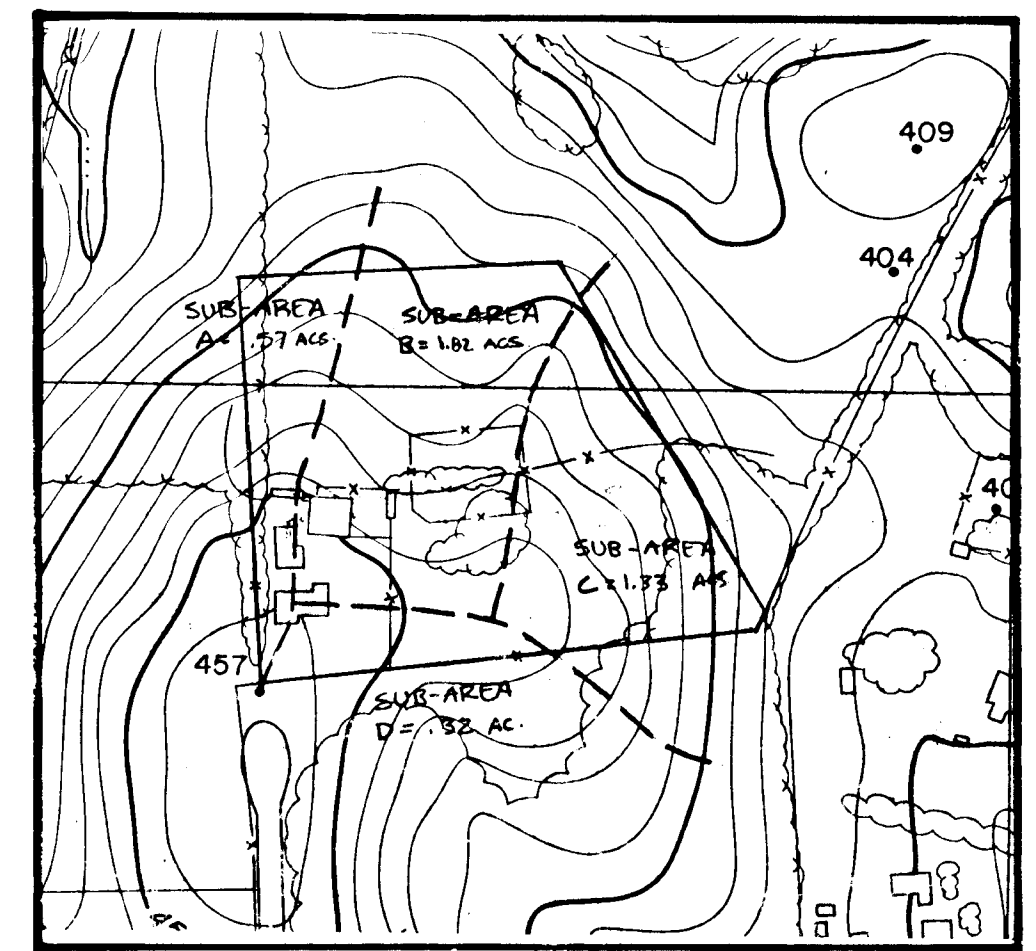


PROPERTY OF
HOWARD COUNTY DEPT OF
REC. & PARK



PROPERTY OF
HOWARD COUNTY DEPT OF
REC. & PARK

POST-DEVELOPMENT RUNOFF FROM
SUB-DRAINAGE AREA "A" IS LESS THAN
THE EXISTING RUNOFF DUE TO THE
RAZING OF THE (3) STRUCTURES.



EXISTING DRAINAGE AREA - SCALE: 1" = 200'

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

Approved: *[Signature]* Date: 8/27/90
Howard S.O.D.

PROPERTY OF
BOARD OF COMMISSIONERS
497 / 940

By the Developer:

"I 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."

[Signature] Date: 8/11/90
Signature of Developer
Print name below signature

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 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 of Engineer: *[Signature]* Date: 8/28/90
Print name below signature

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

[Signature] Date: 8/28/90
Signature of Engineer
Print name below signature

- LEGEND
- ▨ AREA GREATER/EQUAL TO 25%
 - ALL PROPOSED GRADING ± 24"
 - DRAINAGE DIVIDE
 - TRAVEL TIME T_e

NO.	BY	REVISION	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
	<i>[Signature]</i>		9/12/90
	CHIEF, LAND DEVELOPMENT DIVISION		DATE
	<i>[Signature]</i>		9/5/90
	CHIEF, BUREAU OF HIGHWAYS		DATE
	<i>[Signature]</i>		9-15-90
	CHIEF, BUREAU OF ENGINEERING		DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
	<i>[Signature]</i>		9/15/90
	CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		DATE



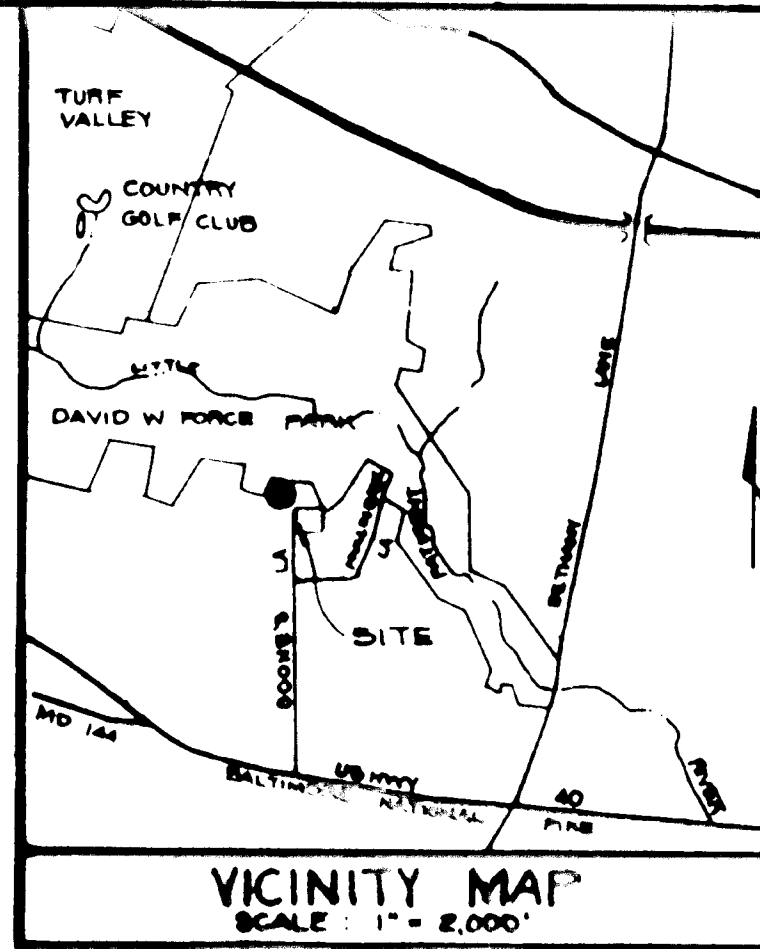
AMERICAN ENGINEERING, INC.
671-A MAIN STREET LAUREL, MARYLAND 20707
301-953-1221 301-880-3039

OWNER DAVID H. AXLINE 2125 BOONE'S LANE COLUMBIA, MD. 21045	PROJECT NAME GREENBRIAR MANOR Section I Area I (LOTS 1-5) T.M. #2 L/F 440/90 2 Election District Howard County, Maryland
DEVELOPER AXLINE PROPERTY PARTNERSHIP % LAND DESIGN & DEVELOPMENT 10805 HICKORY RIDGE RD. SUITE 210 COLUMBIA, MD. 21044	TITLE DRAINAGE AREA MAP S-90-04 P-90-18
DES. DW. DRW. RT.	DATE MAR 90 PROJECT PS89116 SCALE 1" = 40' DRAWING 4 OF 7

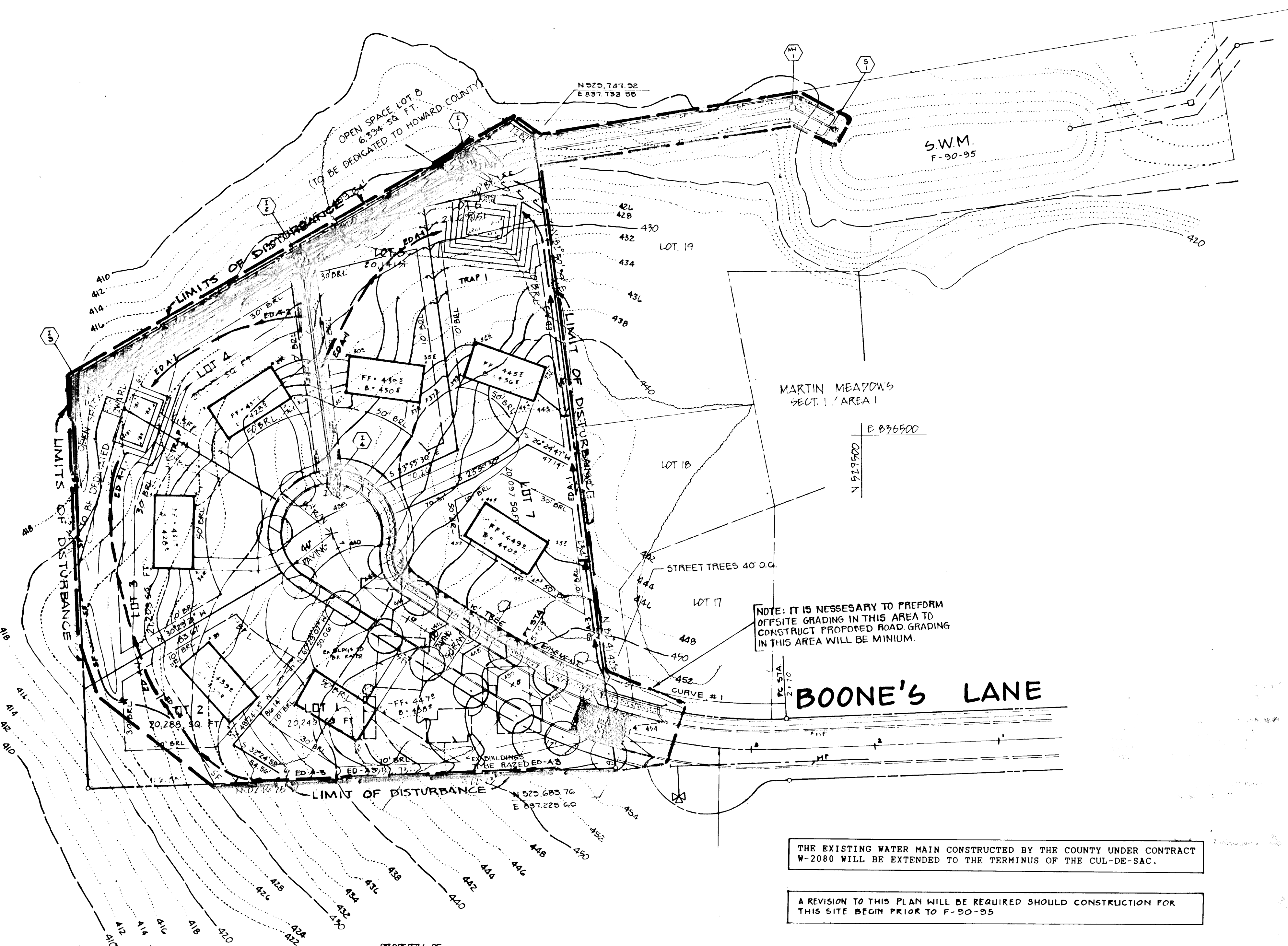
F-90-145

STRUCTURE SCHEDULE						
ITEM	TYPE	LOCATION	INV. IN	INV. OUT	TOP	DETAIL
I-1	YARD INLET	SEE SHT. 1 OF 6	409.70	409.45	418.00	SD-4.14
I-2	YARD INLET	SEE SHT. 1 OF 6	411.50	411.25	423.00	SD-4.14
I-3	YARD INLET	SEE SHT. 1 OF 6	N/A	413.50	416.00	SD-4.14
I-4	A-5	SEE SHT. 1 OF 6	N/A	432.15	440.30	SD-4.01
S-1	METAL END SECTION	SEE SHT. 1 OF 6	N/A	N/A	407.66	SD-5.61
MH-1	SD. MH	SEE SHT. 1 OF 6	407.00	406.75	412.55	G-5.05

SEDIMENT TRAP DATA		
	TRAP #1	TRAP #2
DRAINAGE AREA	1.30 AC	0.95 AC
DISTURBED AREA	1.30 AC	0.95 AC
STORAGE REQUIRED	2340 CF	1710 CF
STORAGE PROVIDED	2640 CF	2136 CF
CREST ELEVATION	423.50	419.50
CLEANOUT ELEVATION	422.50	420.50
BOTTOM ELEVATION	420.00	418.00
TRAP DIMENSIONS	28 x 18'	36 x 18'



PROPERTY OF HOWARD COUNTY DEPT. OF REC. & PARK



PROPERTY OF HOWARD COUNTY DEPT. OF REC. & PARK

PROPERTY OF BOARD OF COMMISSIONERS 497/940

THE EXISTING WATER MAIN CONSTRUCTED BY THE COUNTY UNDER CONTRACT W-2080 WILL BE EXTENDED TO THE TERMINUS OF THE CUL-DE-SAC.

A REVISION TO THIS PLAN WILL BE REQUIRED SHOULD CONSTRUCTION FOR THIS SITE BEGIN PRIOR TO F-90-95

- SEQUENCE OF CONSTRUCTION**
1. Arrange a preconstruction meeting with Howard County Sediment Control Inspector, 7 days prior to start of any construction.
 2. Clear and grub the area for installation of sediment control measures as shown on plan.
 3. Install stabilized construction entrance and all perimeter dikes and silt fences as shown.
 4. Excavate for both temporary sediment traps to the sizes as shown.
 5. Grade the site and install storm drain with inlet structures.
 6. Install inlet protection devices over all inlets.
 7. Stabilize the site and seed and mulch all disturbed areas.
 8. Remove all sediment / erosion control measures after Howard County sediment control inspector's approval and stabilize those areas.

LEGEND
 AREA GREATER/EQUAL TO 25%

By the Developer:
 "I 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."
 Signature of Developer: *John C. Reuver* Date: 8-11-90

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 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 of Engineer: *[Signature]* Date: 8/30/90

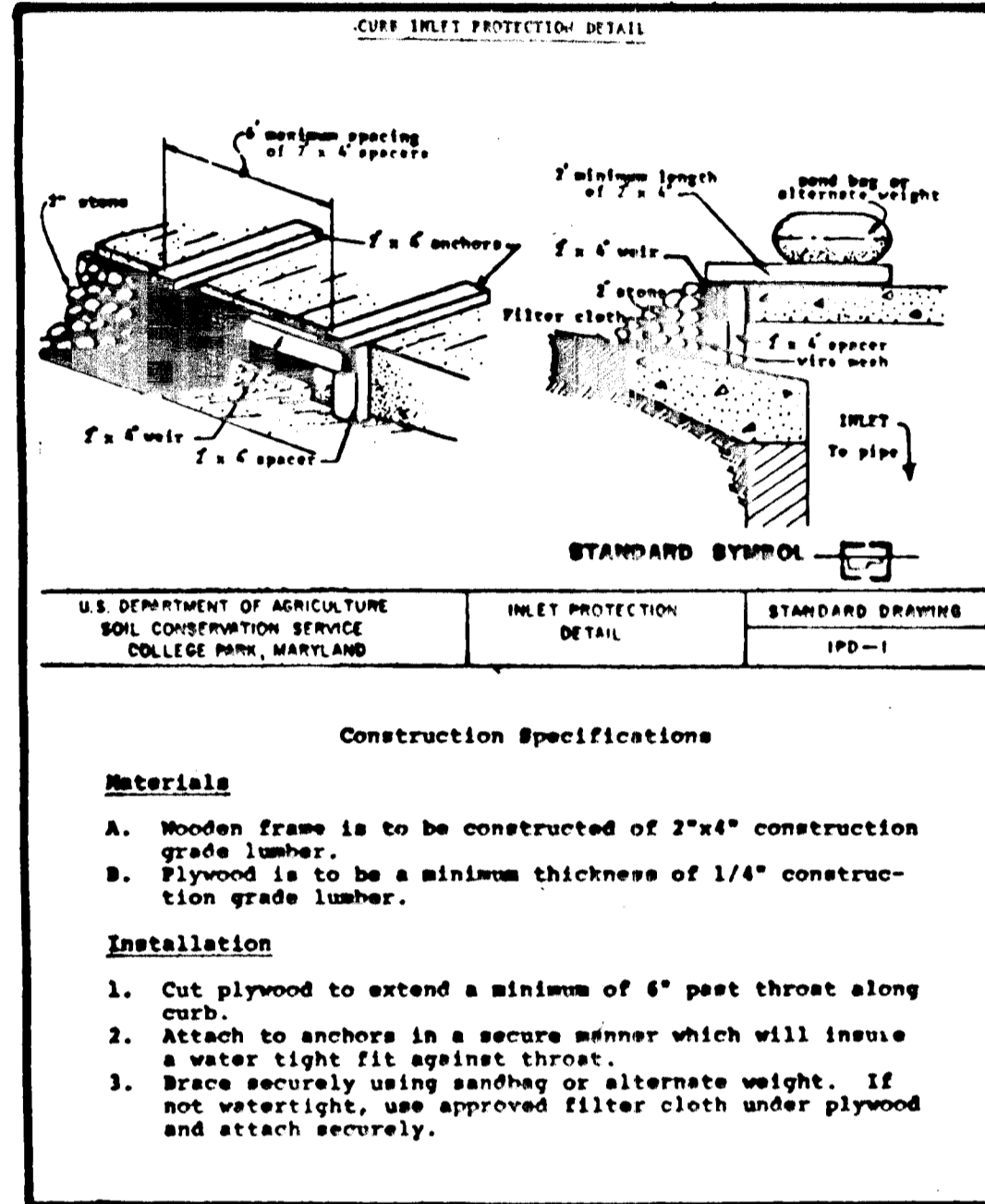
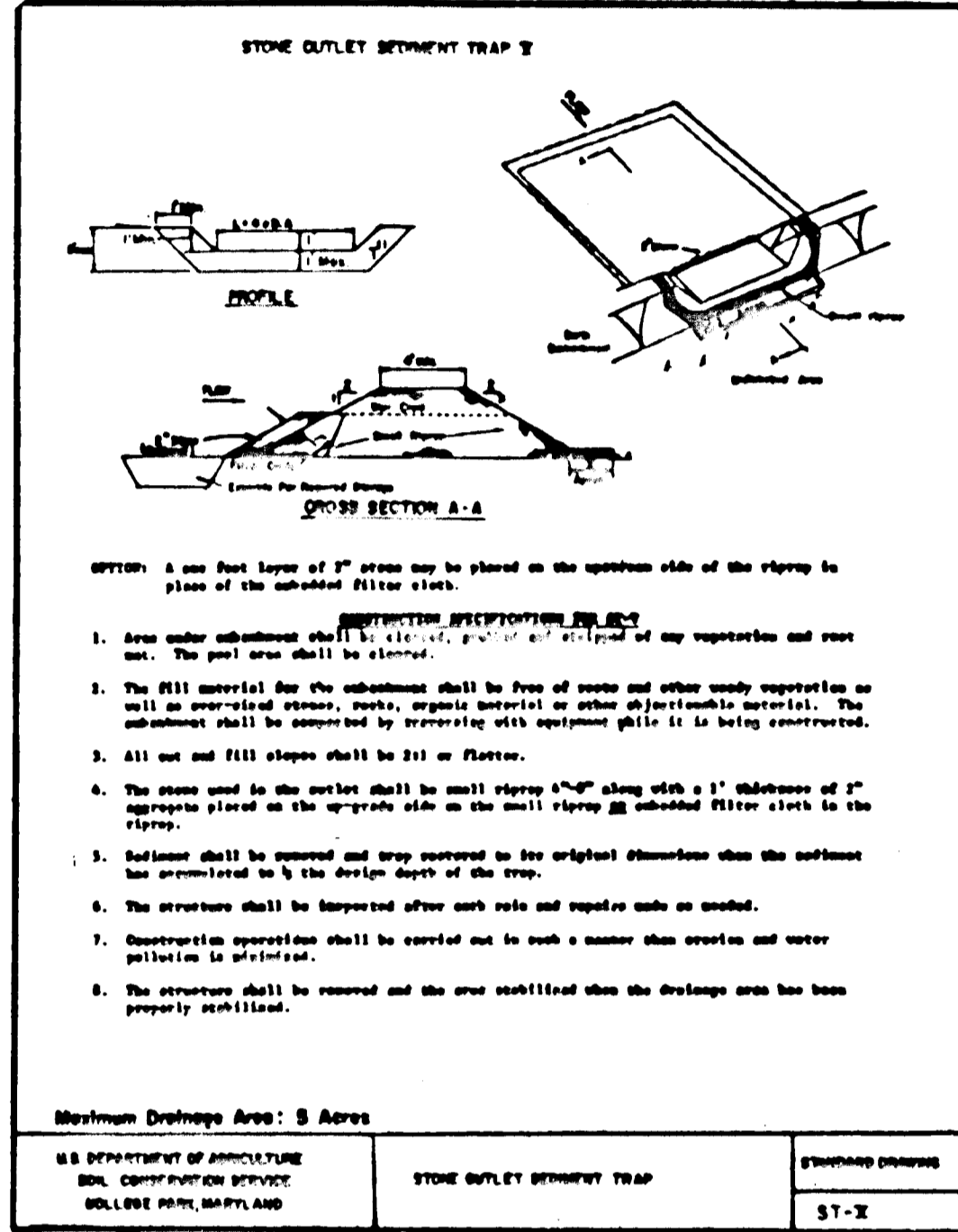
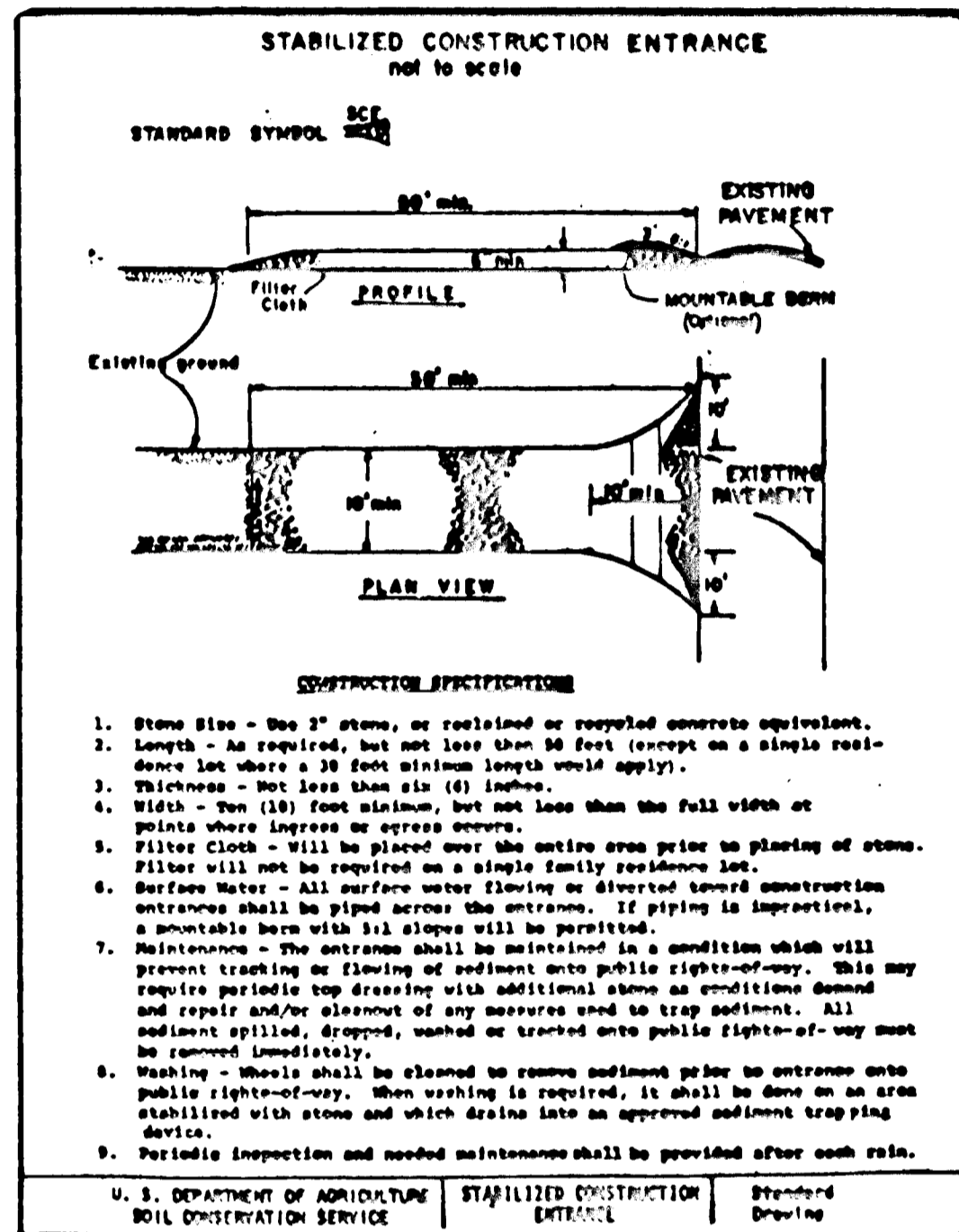
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved: *[Signature]* 8/29/90
 Howard S.C.D.

NO.	BY	REVISION	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
	<i>Ola M. Dossman</i>	CHIEF, LAND DEVELOPMENT DIVISION	9/2/90 DATE
	<i>Francis W. Welland</i>	CHIEF, BUREAU OF HIGHWAYS	9/5/90 DATE
	<i>[Signature]</i>	CHIEF, BUREAU OF ENGINEERING	9-18-90 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
	<i>[Signature]</i>	CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	9/2/90 DATE



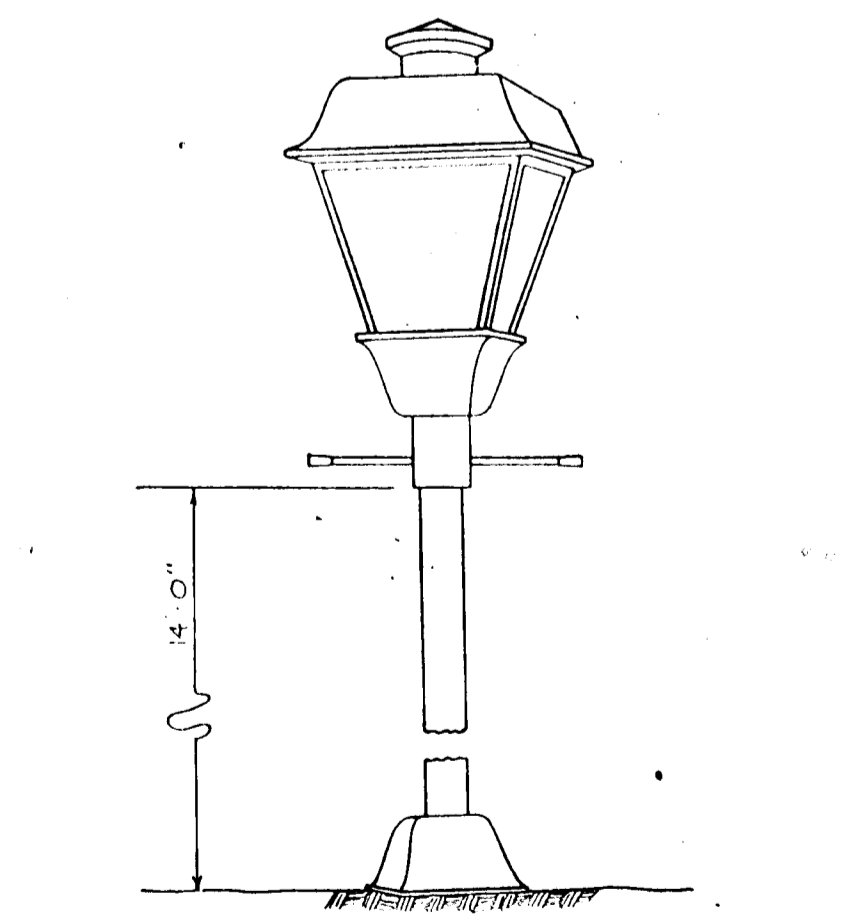
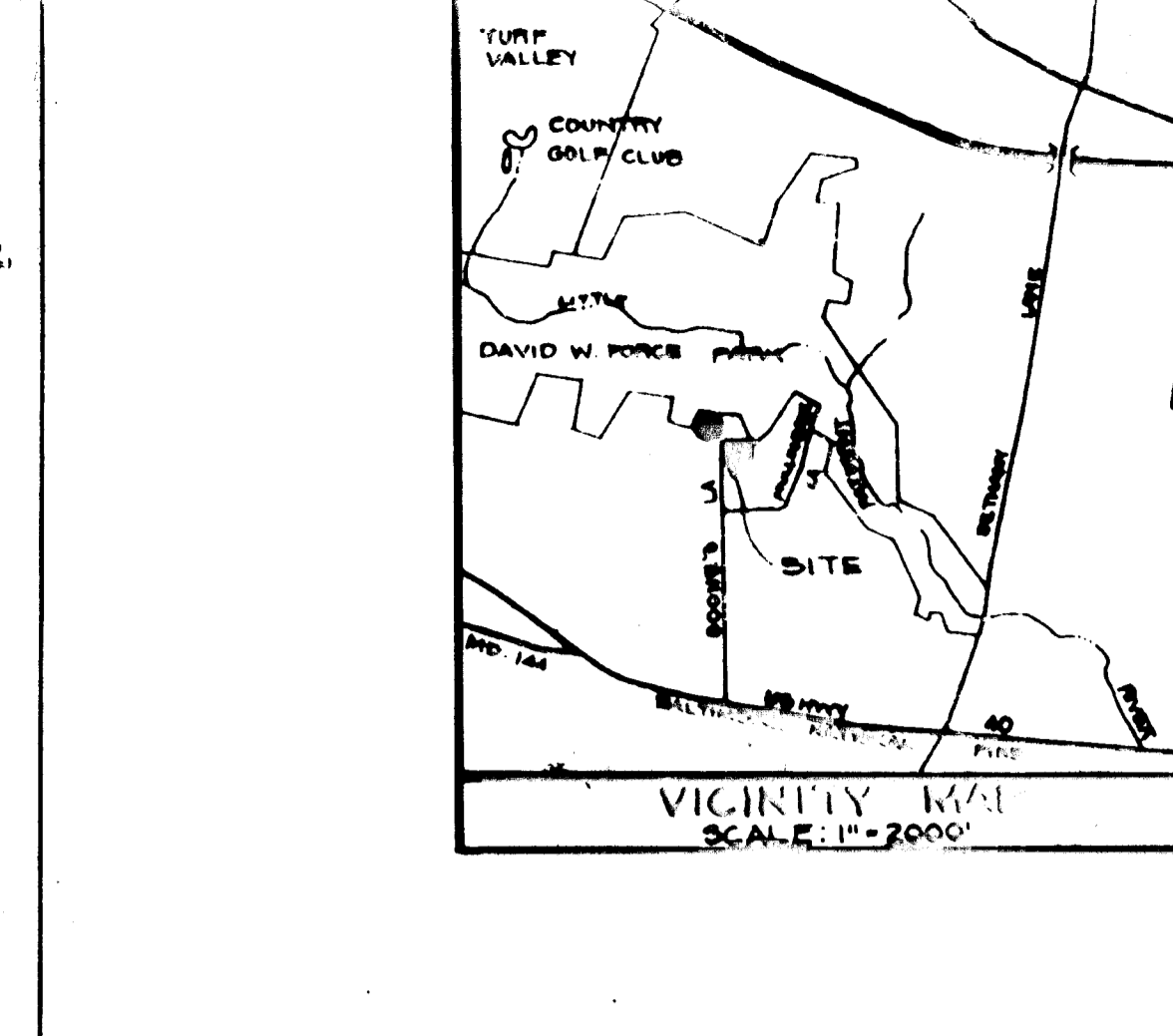
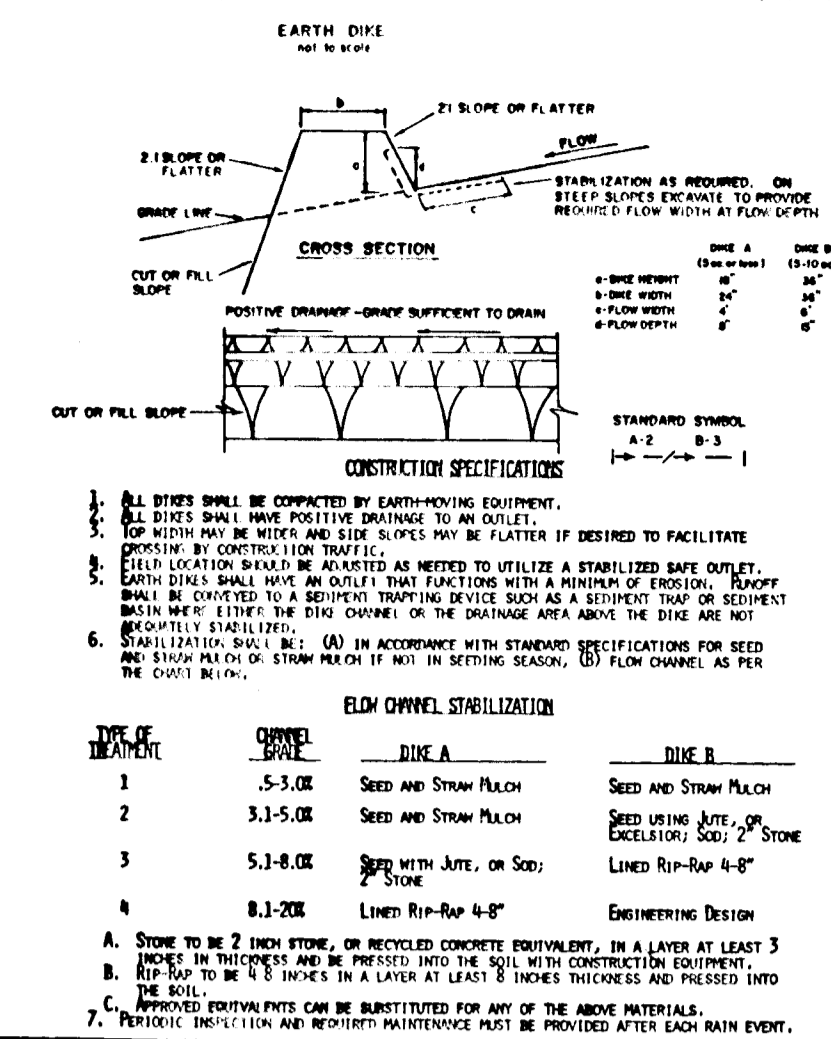
AMERICAN ENGINEERING, INC. 609 B MAIN STREET LAUREL, MARYLAND 20707 301-953-1221 301-880-3039	
OWNER DAVID H. AXLINE 3022 POONES LANE ELLICOTT CITY, MD. 21043	PROJECT NAME GREENBRIAR MANOR Section I Area 1 (LOTS 1-9) T.M. #2 L/F 440/90 2 Election District Howard County, Maryland
DEVELOPER AXLINE PROPERTY PARTNERSHIP 92 LAND DESIGN & DEVELOPMENT 10805 HICKORY RIDGE RD. SUITE 210 COLUMBIA, MD. 21044	TITLE: GRADING & SEDIMENT CONTROL
DATE: MAR '90 PROJECT: P589116	SCALE: 1" = 50' DRAWING: 5 OF 7
DES. DW. DRW. RT.	

F-90-145



SEDIMENT CONTROL NOTES

- 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)
- 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 HUNTLEY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 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.
- 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.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 HUNTLEY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 31) sod (Sec. 34), temporary seeding (Sec. 30) and mulching (Sec. 32). Temporary stabilization with dates do not allow for proper germination and establishment of grasses.
- 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.
- Site Analyst:
Total Area of Site: 40 Acres
Area Disturbed: 2.5 Acres
Area to be seeded or sodded: 2.5 Acres
Area to be vegetatively stabilized: 2.5 Acres
Total Cut: 20000 Cu. yds
Total Fill: 10000 Cu. yds
Offsite waste/borrow area location: _____
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.



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

[Signature] 8/20/90
U.S. Soil Conservation Service Date

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

[Signature] 8/20/90
Howard Soil Conservation District 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 the requirements of the Howard Soil Conservation District."

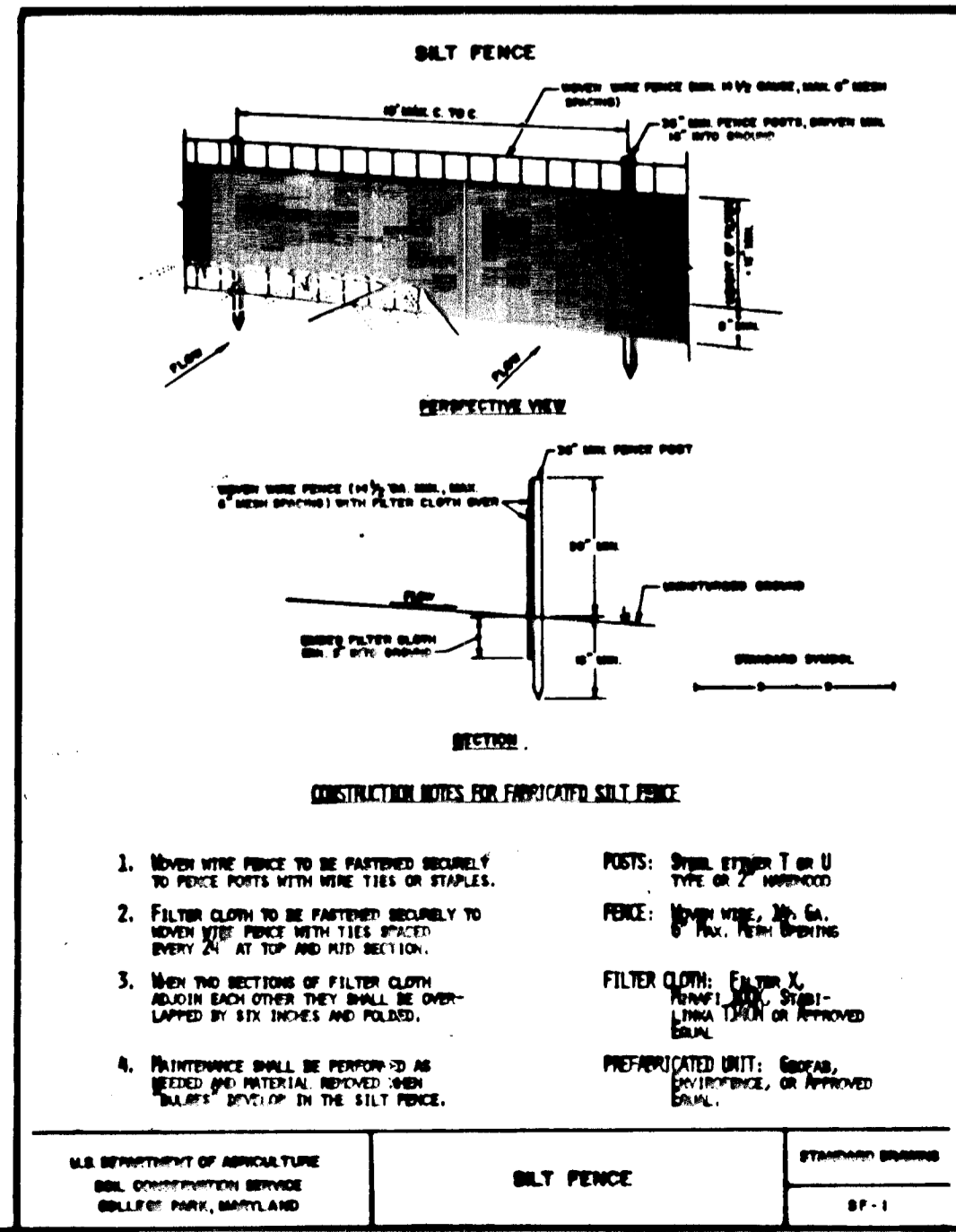
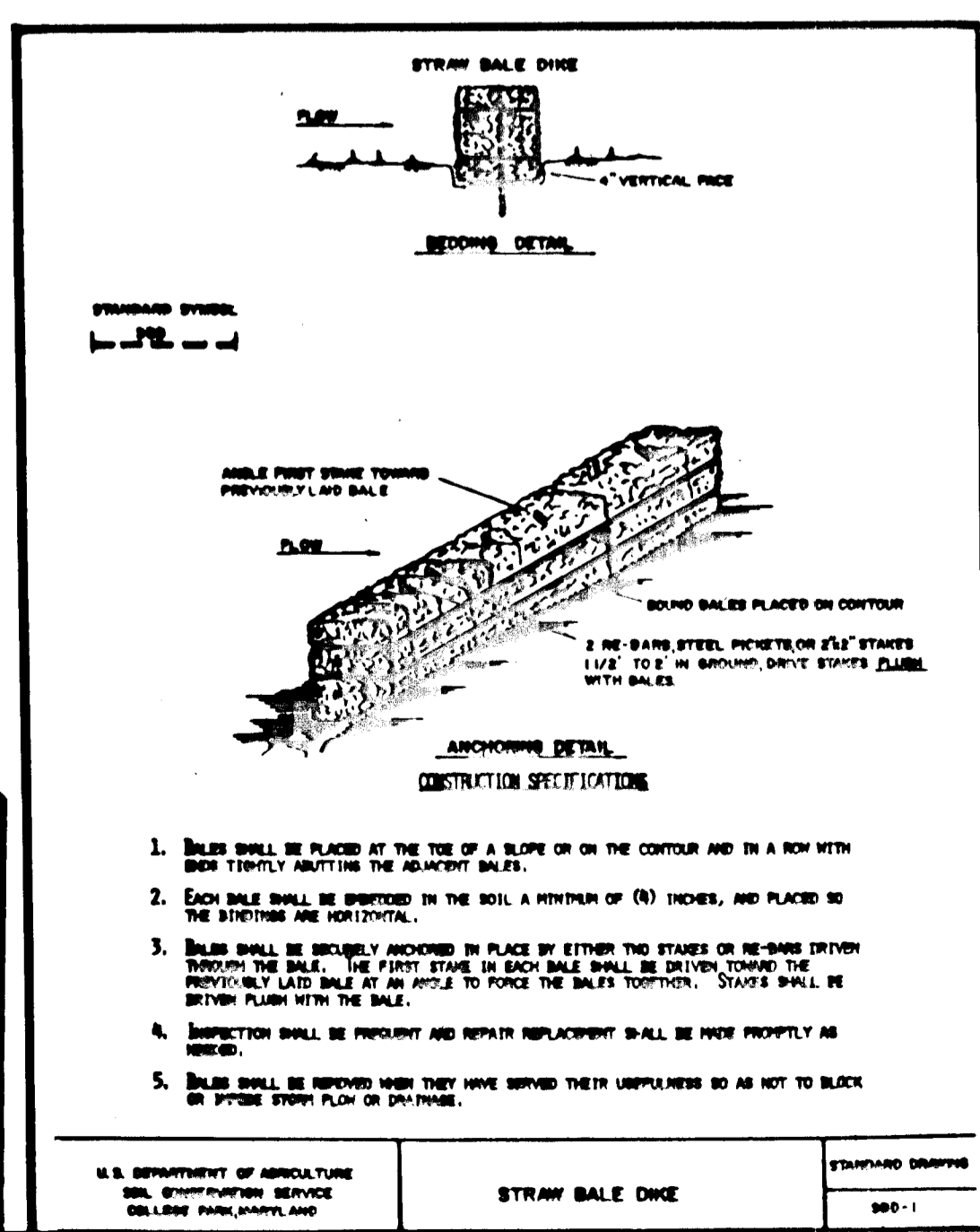
Date

Registered Professional Engineer

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: *[Signature]* Date: 8/11/90
Name: JOHN C. REUBER Title: GENERAL PARTNER Phone No. 740-2100
Firm: AXLINE PROPERTY PARTNERSHIP Complete Address: 10005 HIGHWAY RIDGE RD. COLUMBIA, MD. 21044



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

[Signature] 9/7/90
CHIEF, LAND DEVELOPMENT DIVISION DATE

[Signature] 9/5/90
CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 9-10-90
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 9/2/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

AMERICAN ENGINEERING, INC.
67-A MAIN STREET LAUREL, MARYLAND 20707
301-953-1221 301-880-3039

OWNER
DAVID H. AXLINE
3023 BOONES LANE
ELLICOTT CITY, MD. 21043

PROJECT NAME
GREENBRIAR MANOR
Section I Area 1 (LOTS 1-9)
P. W. #2 L/P 440/90
2 Election District
Howard County, Maryland

DEVELOPER
AXLINE PROPERTY PARTNERSHIP
6% LAND DESIGN & DEVELOPMENT
10805 HIGHWAY RIDGE RD.
SUITE 210
COLUMBIA, MD. 21044

TITLE
DETAIL SHEET
8-90-04 P-90-18

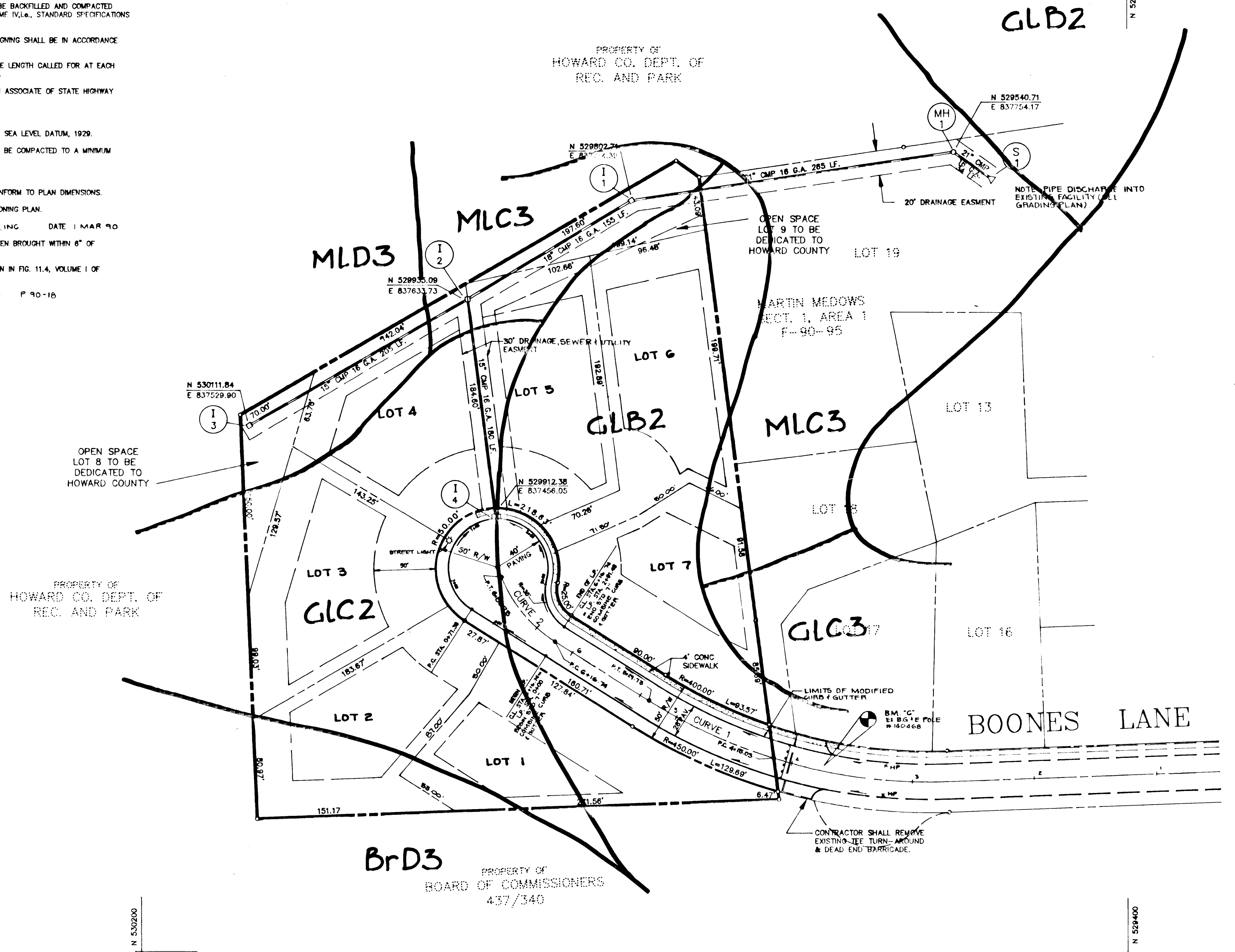
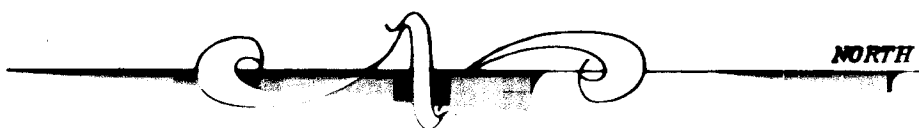
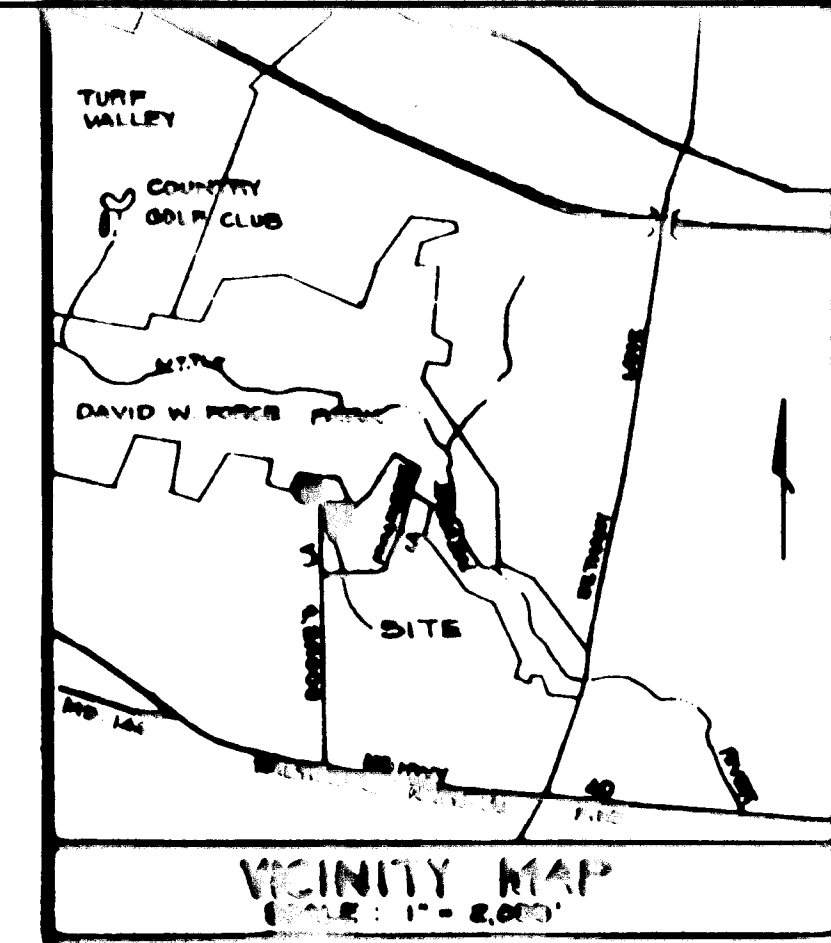
DATE MAR 90 **PROJECT** P89116

DATE: 5-30-91

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 - MISS UTILITY 1-800-257-7777
 - BELL TELEPHONE SYSTEM 393-3649
 - LONG DISTANCE CABLE DIVISION 393-3553 or 3554
 - BALTIMORE GAS AND ELECTRIC CO. 539-8000 ext. 691
 - COLONIAL PIPELINE 785-1390
 - HOWARD COUNTY BUREAU OF UTILITIES 992-2366
 - HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION 792-7272 (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 35.0' RADIUS UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE DESIGN MANUAL.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATE OF STATE HIGHWAY OFFICIAL STANDARDS:
 - ALL 50' RIGHT-OF-WAYS = 30 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT \bigcirc ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R PER B-2-85 COMPREHENSIVE ZONING PLAN.
- TOPO TAKEN FROM FIELD RUN SURVEY BY MAISTE WATTS, INC. DATE 1 MAR 90
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS C AS SHOWN IN FIG. 11.4, VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- SET OFFICE OF PLANNING AND ZONING FILE NO. S-90-04 P. 90-16

C.L. CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	425.00'	111.70'	56.12'	111.38'	S24°53'13"W	15°03'32"
C2	109.62'	69.01'	35.69'	67.88'	S50°27'05"W	36°04'12"



SOILS LEGEND		
SYMBOL	DESCRIPTION	TYPE
BrD3	BRANDYWINE LOAM 15 TO 20 PERCENT SLOPES	B
GLB2	GLENRIG LOAM 3 TO 8 PERCENT SLOPES	B
GLC2	GLENRIG LOAM 8 TO 15 PERCENT SLOPE	B
GLC3	GLENRIG LOAM 8 TO 15 PERCENT SLOPE	B
MLC3	MANOR LOAM 8 TO 15 PERCENT SLOPE	B
MLD3	MANOR LOAM 15 TO 25 PERCENT SLOPE	B

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

Approved: *[Signature]*
Howard S.C.D.

Reviewed for: *[Signature]* S.C.D.
Name: *[Signature]*
Signature: *[Signature]*
U.S. Soil Conservation Service

NO.	BY	REVISION	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
	<i>[Signature]</i>	CHIEF, LAND DEVELOPMENT DIVISION	9/17/90 DATE
	<i>[Signature]</i>	CHIEF, BUREAU OF HIGHWAYS	9/18/90 DATE
	<i>[Signature]</i>	CHIEF, BUREAU OF ENGINEERING	9-18-90 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
	<i>[Signature]</i>	CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	9/21/90 DATE
PROJECT NAME: GREENBRIAR MANOR SECTION ONE / AREA ONE, LOTS 1 - 9 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND.			
TITLE: ROAD PLAN		OWNER: DAVID H. AXLINE 3023 BOONES LANE ELLCOTT CITY, MD 21043	
PREPARED BY: American Engineering Inc. 671-A MAIN STREET LAUREL, MARYLAND 20707 (301) 953 1221 (301) 880 3039		DEVELOPER: AXLINE PROPERTY PARTNERSHIP % LAND DESIGN & DEVELOPMENT 10805 HICORY RIDGE RD SUITE 210 COLUMBIA, MD, 21044	
DES.: R.T.T.Jr.	JOB: 89116	SCALE: 1" = 50'	SHEET 7 OF 7
DRW.: W.D.F.	PROJ.:	DATE: 3-6-90	
CHK.: D.C.W.			

PLAN
SCALE: 1" = 50'



F-90-145