

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.

**Cheryl Summers, Esq.** 3/24/99  
Natural Resources Conservation Service Date

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

**[Signature]** 3/24/99  
Howard Soil Conservation District Date

**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/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

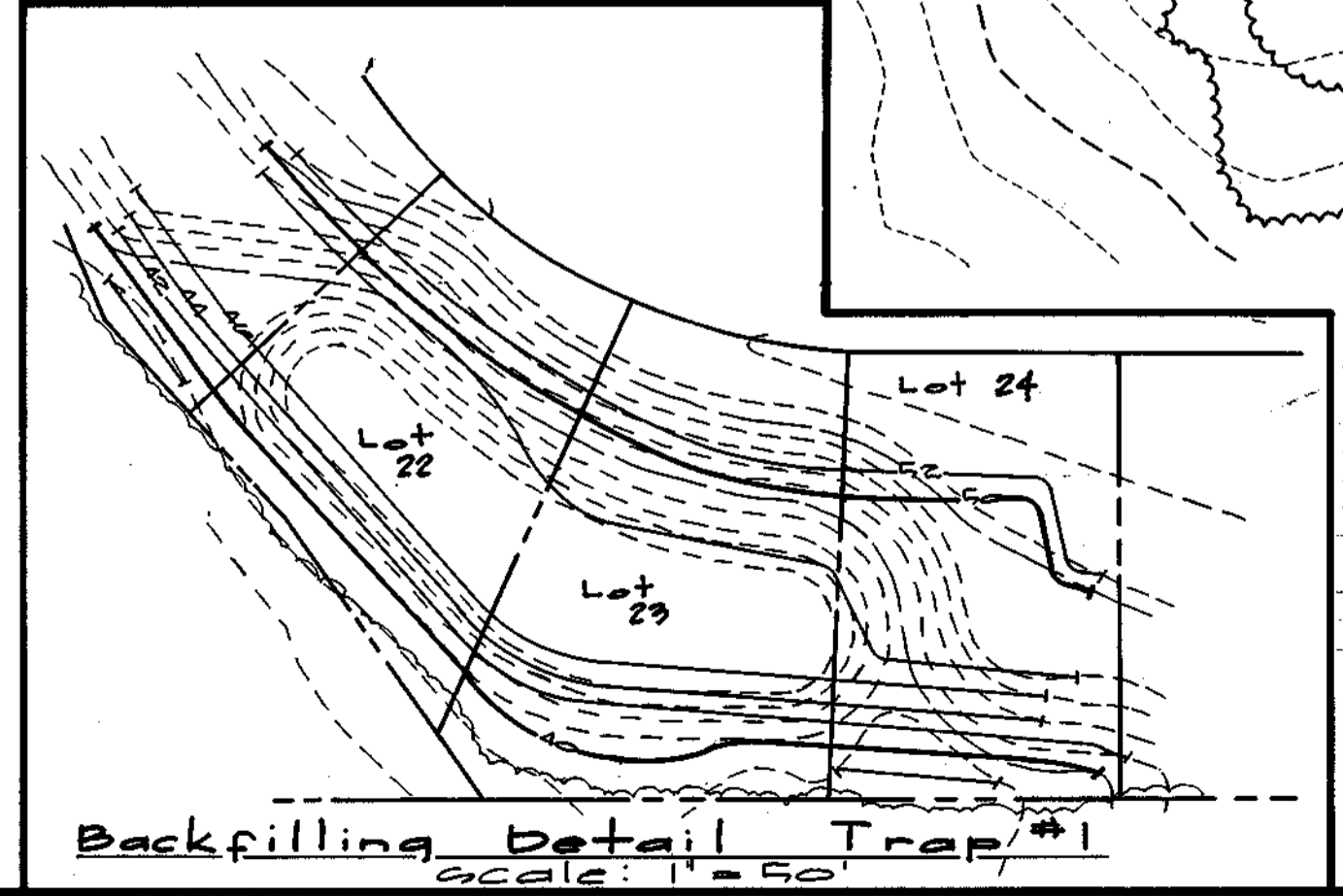
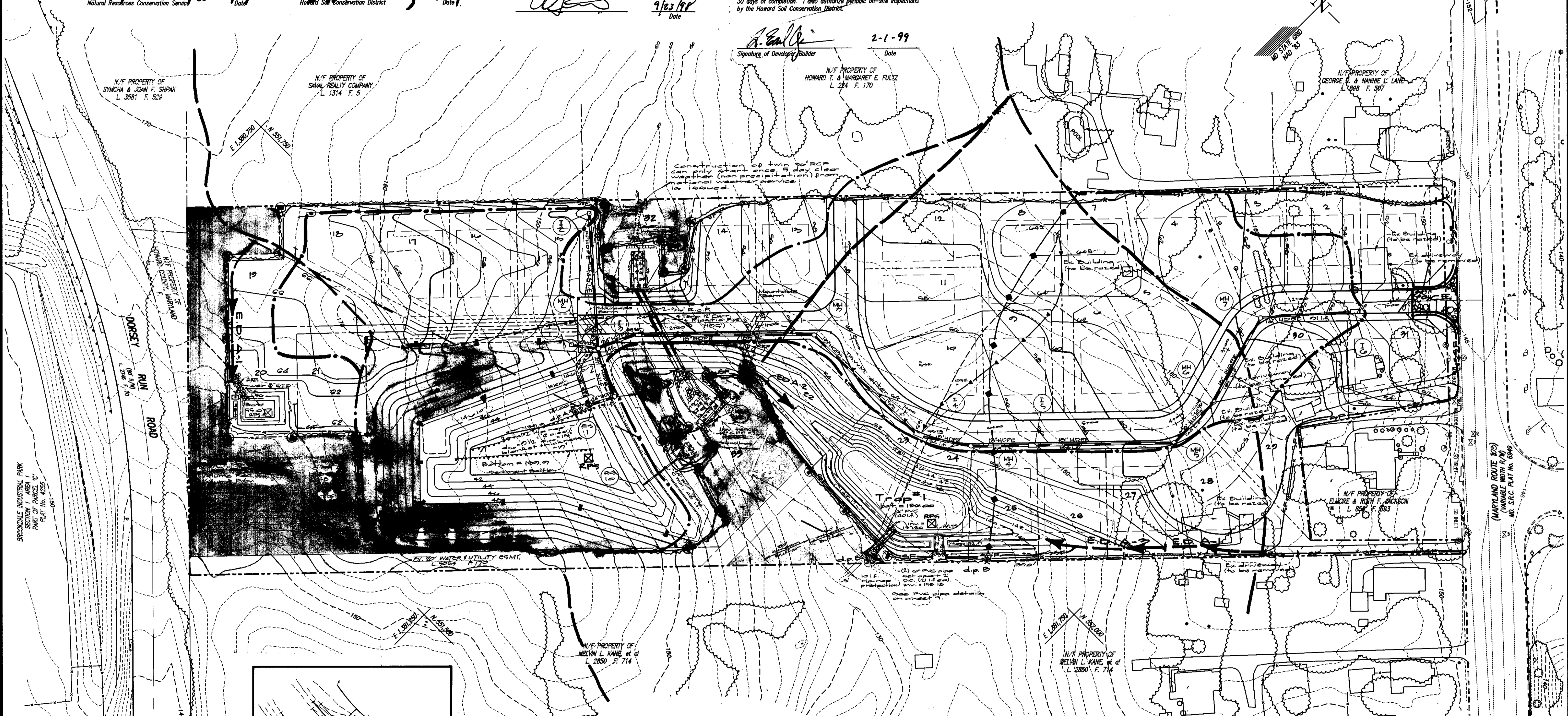
**[Signature]** 9/23/98  
Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**

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 Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and 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]** 2-1-99  
Signature of Developer/Builder Date

Limit of Disturbance for the proposed improvements runs along sediment control devices (i.e. silt fence, super silt fence) or tree protection fence. But under no circumstance will the limit of disturbance be off the property.



Trap / Basin Data

Trap #1	Sediment Basin
Before Development Drainage Area	2,100 sq. ft.
Mass Graded Drainage Area	4,100 sq. ft.
Before Dev. 2 Yr. discharge	3,500 sq. ft.
Mass Graded discharge (unmanaged)	2,400 sq. ft.
Mass Graded discharge (managed)	2,100 sq. ft.
Wet Storage required	1,500 sq. ft.
Dry Storage required	1,500 sq. ft.
Wet Storage provided	1,500 sq. ft.
Dry Storage provided	1,500 sq. ft.
Max. of release orifice	141.97
Dimension of release orifice	2'-0" x 4'-0"
Bottom Elevation	150.00
Cleanout Elevation	150.00
Top of Dam	152.17
Side Slopes	2:1
Type of Device	Trap #1

For Final SWM Pond Configuration See Sheet 2

**Legend**

- Existing Contour
- Proposed Contour
- Silt Fence
- Super Silt Fence
- Earth Dike
- Proposed Tree Line
- Existing Tree Line
- Tree Protection Fence
- Forest Conservation Area
- Before Dev. D.A. Divide
- After Dev. D.A. Divide
- Forest Conservation Spot to be installed before grading
- Forest Conservation Spot to be installed after grading. Install signs and reorientation plantings in place.
- TC Path before development, design pt. B
- TC Path after development, design pt. B
- TC Path before development, design pt. A
- TC Path after development, design pt. A

Approved: Howard County Dept. of Public Works  
**[Signature]** 3-8-99  
Chief, Bureau of Highway

Approved: Howard County Dept. of Planning & Zoning  
**[Signature]** 3/24/99  
Chief, Division of Land Development

**[Signature]** 3/24/99  
Chief, Development Engineering Division

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK  
BURTNSVILLE, MARYLAND 20866  
TEL: 301-421-4024 FAX: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

DATE	REVISION	BY	APP'R.





PREPARED FOR:  
**ORCHARD DEVELOPMENT CORPORATION**  
3979 OLD COLUMBIA PIKE  
ELICOTT CITY, MD 21043  
ATTN: MR. EARL ARMSTRONG  
PH: 410-750-1800

**Sediment Control Plan**  
**SCARLET OAKS**  
**LOTS 1 THRU 33**

SCALE	ZONING	G. L. W. FILE No.
1"=50'	R-12	96053
DATE	TAX MAP - GRD	SHEET
JAN. 23, 1999	43 - 5/6	4 OF 11



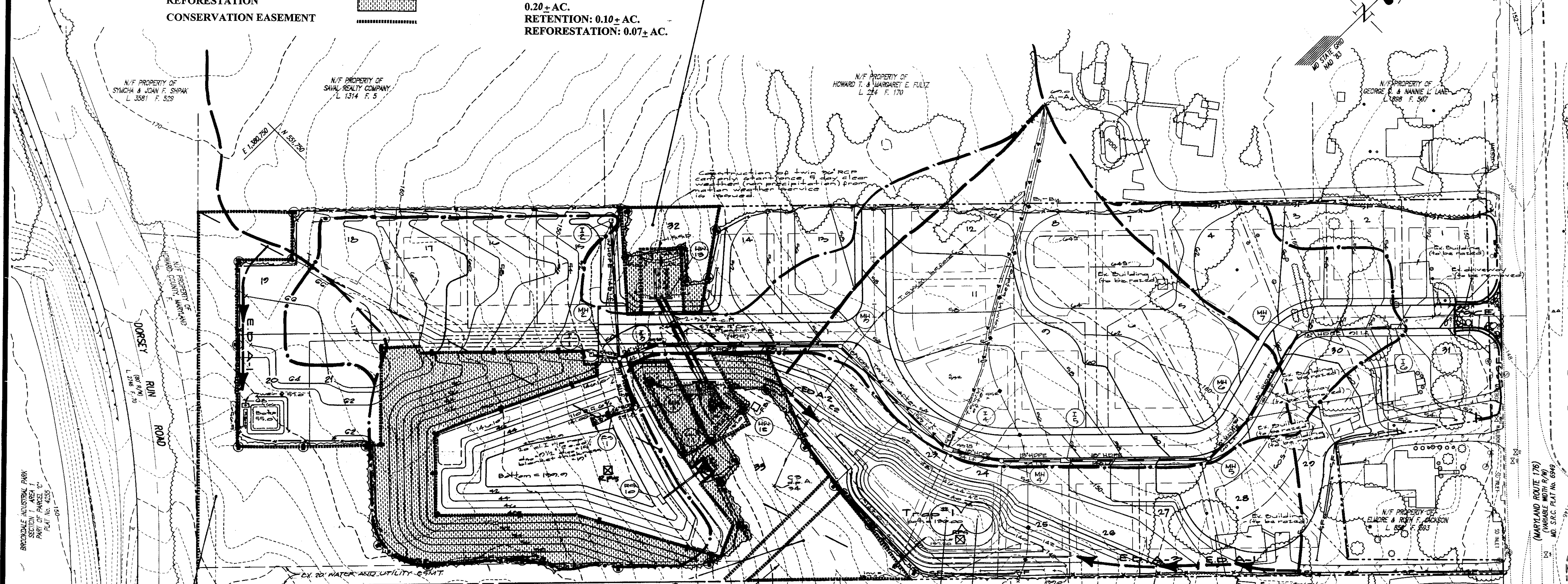
**FOREST CONSERVATION LEGEND**

- FOREST RETENTION TO BE IN CONSERVATION EASEMENT 
- FOREST TO BE CLEARED 
- REFORESTATION 
- CONSERVATION EASEMENT 

**CONSERVATION AREA 1**

0.20 ± AC.  
RETENTION: 0.10 ± AC.  
REFORESTATION: 0.07 ± AC.

Limit of Disturbance for the proposed improvements runs along sediment control devices (i.e. silt fence, super silt fence) or tree protection fence. But under no circumstance will the limit of disturbance be off the property.



**CONSERVATION AREA 2**

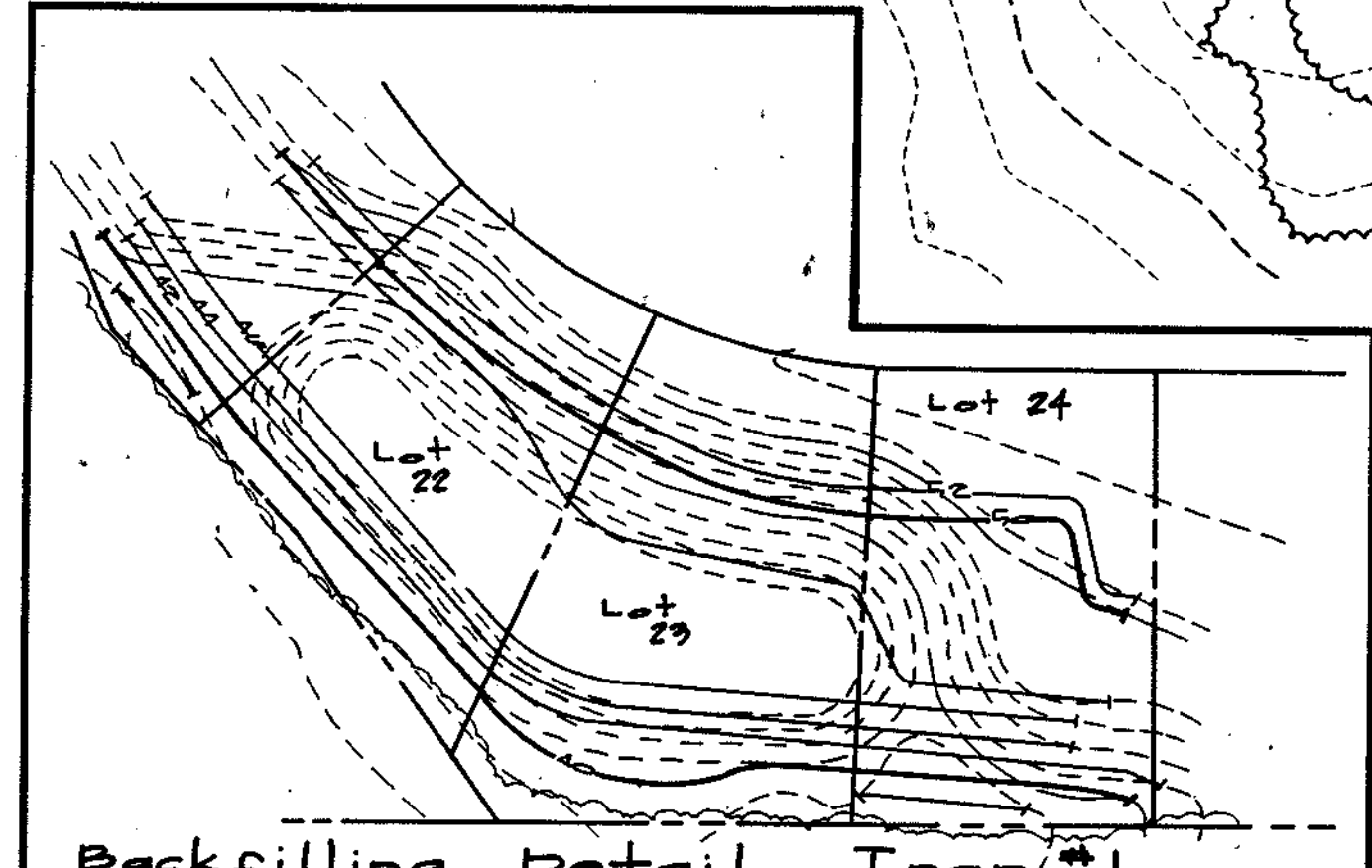
2.50 ± AC.  
RETENTION: 1.70 ± AC.  
REFORESTATION: 0.80 ± AC.

NOTE: 11921 50' FT. OF 20' WIDE WATER AND UTILITY EASEMENT 6064 & 1700' & 1700' DISTRICT TREATMENT OF 6792.60 TO THE FOREST CONSERVATION EASEMENT WAS MADE FOR THE ABANDONMENT OF THE SAME SQUARE FOOTAGE OF FOREST CONSERVATION EASEMENT. THIS RESTRICTION PLAT NO. 5 HAS BEEN FILED WITH THE RECORDS CHANGES DIVISION OF THE STATE DEPARTMENT OF GENERAL SERVICES.

50' STREAM BUFFER

EX. 36" OAK

EX. 36" TULIP POPLAR



Backfilling Detail Trap #1  
Scale: 1" = 50'

**Legend**

- 198- Existing Contour
- 198- Proposed Contour
- SF-SF Silt Fence
- SSF-SSF Super Silt Fence
- ED All Earth Dike
- Proposed Tree Line
- Existing Tree Line
- Tree Protection Fence
- Before Dev. D.A. Divide
- After Dev. D.A. Divide
- Forest Conservation Sign to be installed before grading.
- Forest Conservation Sign to be installed after grading. Install signs once reforestation plantings are in place.
- TC Path before development, design pt. B
- TC Path after development, design pt. B
- TC Path before development, design pt. A
- TC Path after development, design pt. A

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DIRECTOR: *Cindy Hamilton* DATE: 3/16/99  
CHIEF DIVISION OF LAND DEVELOPMENT TC

*[Signature]*  
LANDSCAPE ARCHITECT

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 220 - BURLINGAME OFFICE PARK  
BURLINGAME, MARYLAND 20986  
TEL: 301-421-4024 FAX: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

DATE	REVISION	BY	APPR.
12-1-2000	ADD EX. 20' WATER UTILITY EASEMENT, NEW FOREST CONSERVATION LIMITS, ADD NOTE OF REC-IN-LIEU		

PREPARED FOR:  
**SCARLET OAKS L.L.C.**  
% ORCHARD DEVELOPMENT CORPORATION  
3879 OLD COLUMBIA PIKE  
ELLCOTT CITY, MD 21045  
ATTN: MR. EARL HANBERG  
PH: 410-750-1800

**FOREST CONSERVATION PLAN**  
**SCARLET OAKS**  
LOTS 1 THRU 33  
ELDRIDGE ELECTION DISTRICT No. 1  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
1"=50'	R-12	96053
DATE	TAX MAP - GRID	SHEET
1/22/99	43 - 5/6	10 OF 11

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*Cheryl Sumner/CS* 3/24/99  
Natural Resources Conservation Service Date

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*[Signature]* 3/24/99  
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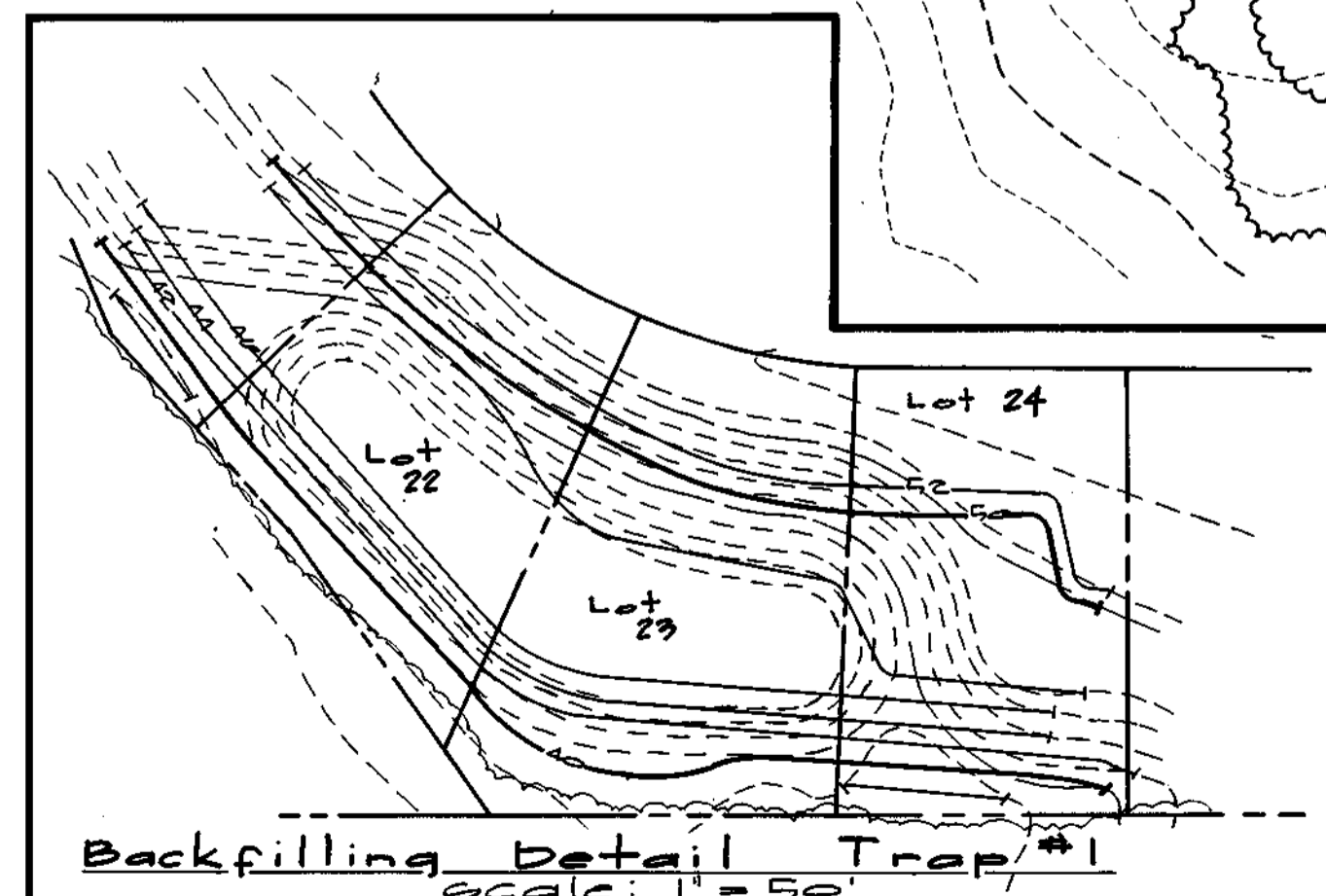
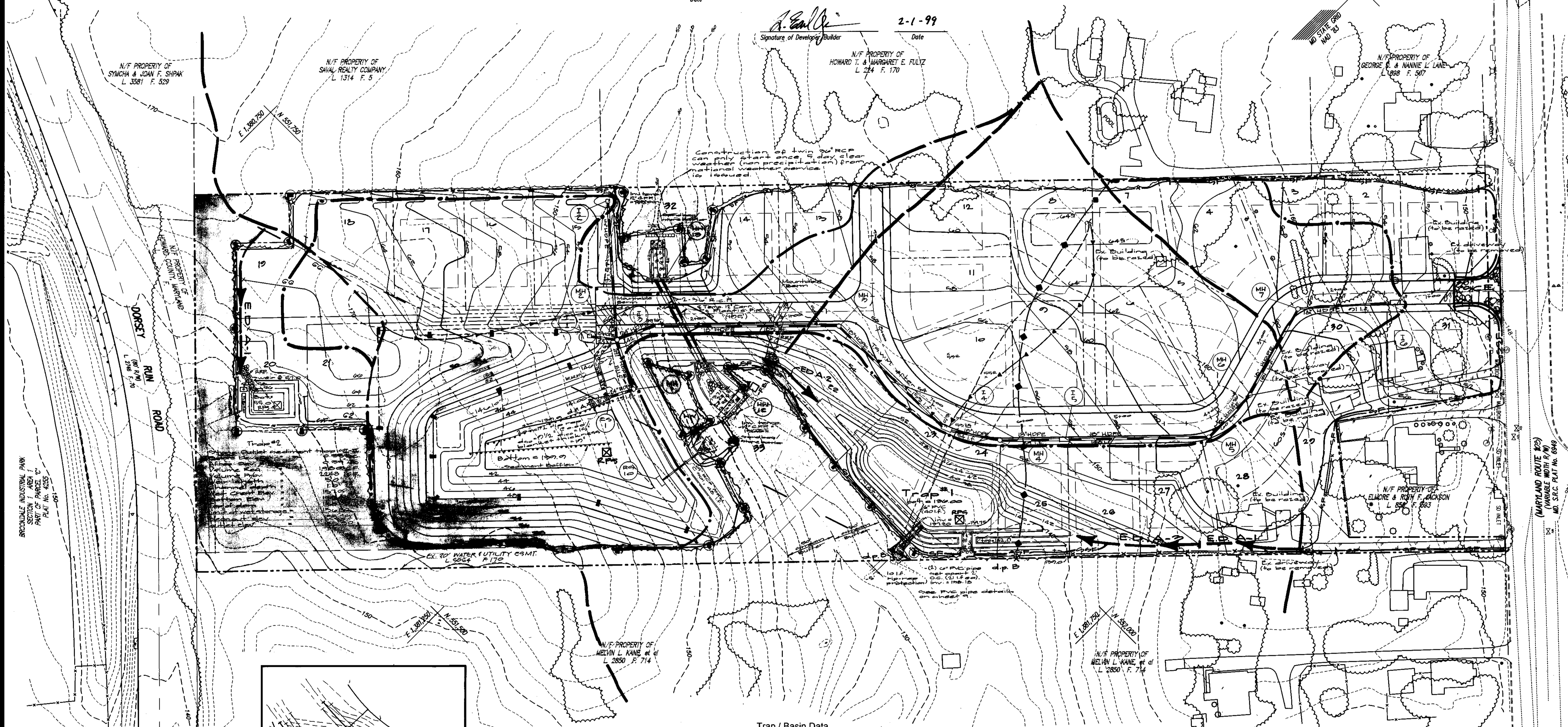
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*[Signature]* 9/23/98  
Date

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*[Signature]* 2-1-99  
Signature of Developer/Builder Date

Limit of Disturbance for the proposed improvements runs along sediment control devices (i.e. silt fence, super silt fence) or tree protection fence. But under no circumstance will the limit of disturbance be off the property.



**Trap / Basin Data**

Trap #1	Sediment Basin
Before Development Drainage Area	2.0 ac
Wet Storage required	4.1 ac
Wet Storage provided	4.1 ac
Dry Storage required	2.2 ac
Dry Storage provided	2.2 ac
Inv. of release orifice	141.97
Dimension of release orifice	2' x 4'
Bottom Elevation	139.00
Cleanout Elevation	139.00
Top of Dam	142.7
Side Slopes	2:1
Type of Device	Trap

For Final SWM Pond Configuration See Sheet 3

**Legend**

- Existing Contour
- Proposed Contour
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- Super Silt Fence
- Earth Dike
- Proposed Tree Line
- Existing Tree Line
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- After Dev. DA Divide
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- TC Path before development, design pt. B
- TC Path after development, design pt. B
- TC Path before development, design pt. A
- TC Path after development, design pt. A

Approved: Howard County Dept of Public Works  
*Andrew M. Daniels* 3-8-99  
Chief, Bureau of Highway

Approved: Howard County Dept of Planning & Zoning  
*Cinda Hamitta* 3/24/99  
Chief, Division of Land Development

*[Signature]* 3/24/99  
Chief, Development Engineering Division

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3609 NATIONAL DRIVE - SUITE 220 - BURTOWNSVILLE OFFICE PARK  
BURTOWNSVILLE, MARYLAND 20866  
TEL: 301-421-4024 FAX: 301-421-4186

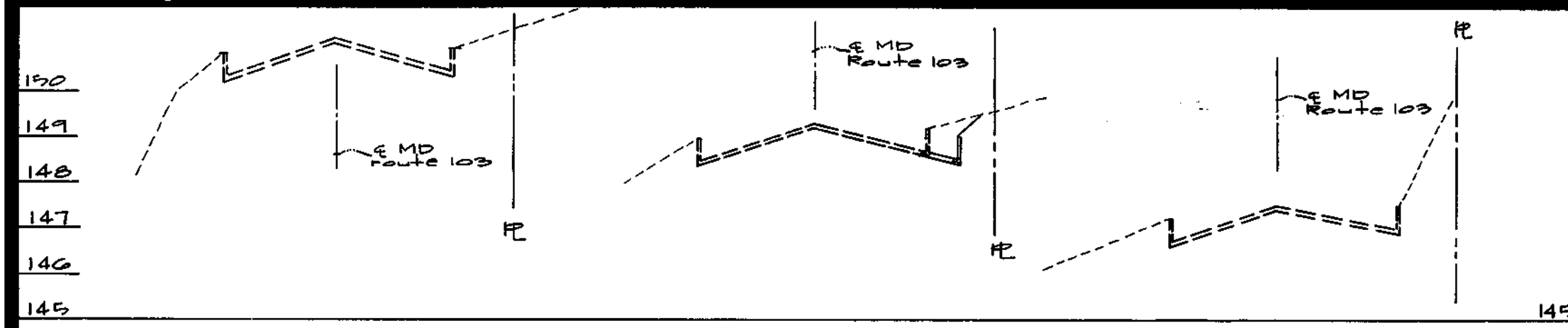
DATE	REVISION	BY	APPR.
12-1-2000	ADDED EX. 20' WATER UTILITY ESMT. REMOVE FOREST CONG. SHADING FROM 20' UTILITY ESMT. D.C.	TKJ	
	REV. GRADING ON LOTS 20, 21 AND SIDE SLOPES OF SWM FACILITY PER EX. CONDITIONS	TKJ	

PREPARED FOR:  
**ORCHARD DEVELOPMENT CORPORATION**  
3079 OLD COLUMBIA PARK  
ELLCOTT CITY, MD 21043  
ATTN: MR. EARL ARMBRGER  
PH: 410-750-1800

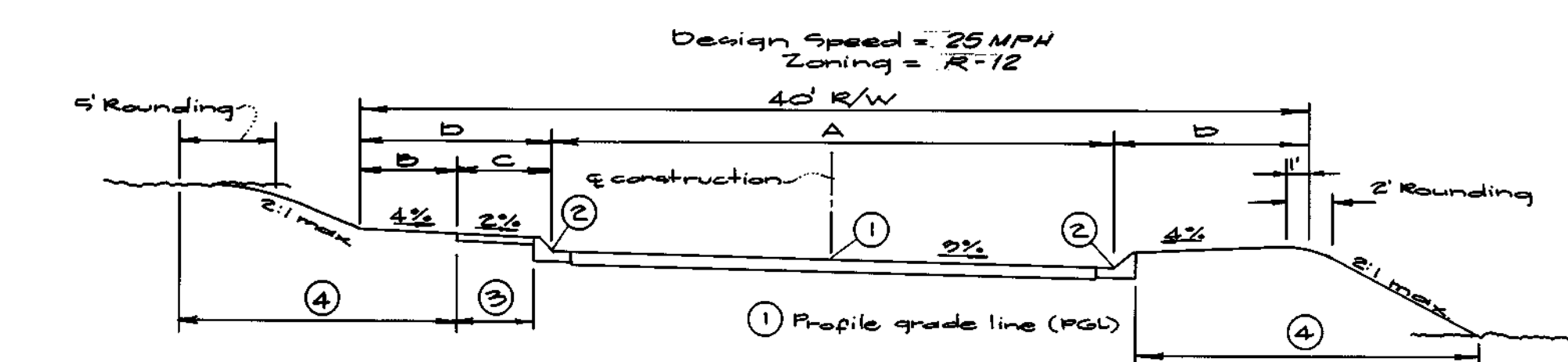
**Sediment Control Plan**  
**SCARLET OAKS**  
LOTS 1 THRU 33  
ELKRDGE ELECTION DISTRICT No. 1  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=50'	R-12	96053
DATE	TAX MAP - GRD	SHEET
JAN. 23, 1999	43 - 5/6	4 OF 11





Cross Sections along Md. Route 102  
Scale: 1" = 20' Horiz.  
1" = 2' Vert.



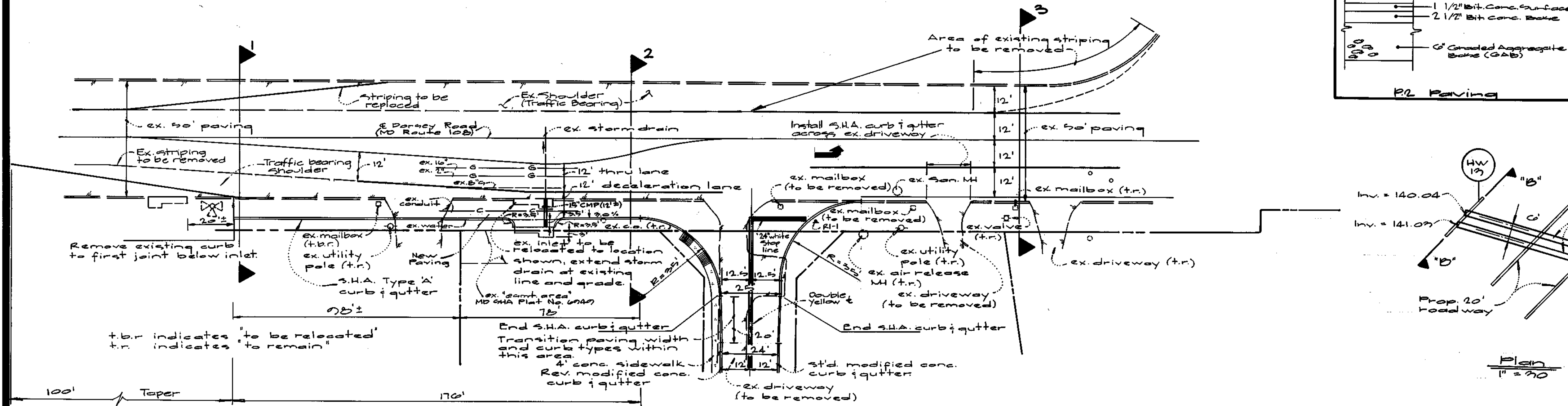
Street Name & Location	Type of Pavement	A	B	C	D	Final Section
Scarlet Oak Drive	Local	24"	2"	8"	8"	R-2
Little Brook Drive	Local	24"	2"	8"	8"	R-2
Area to 2500' R/W	cul-de-sac	20"	-	-	10"	R-2

Paving Section

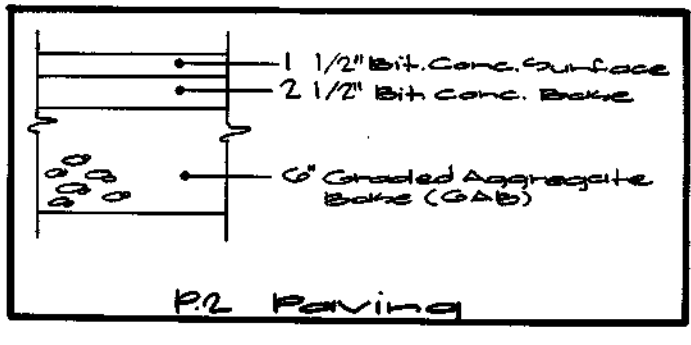
Structure Schedule

No.	Type	Width (inside)	Top Elevation	Invert Elevation	Std. Detail	Locations	Remarks
I1	'D'	2'-6"	149.80	---	HOCO SD 4.11	see plan	
I2	'D'	2'-6"	147.80	---	"	see plan	
I3	A-10	3'-0"	149.80	149.31	HOCO SD 4.41	2x15 Little Brooke Court	10'L
I4	A-10	3'-0"	153.98	153.98	"	2x15 Little Brooke Court	12'L
I5	A-10	3'-0"	156.17	156.80	"	2x15 Little Brooke Court	12'L
I6	Double 15" Comb. inlet	3'-0"	152.80	152.21	HOCO SD 4.34	1x15.00 Scarlet Oak Drive	12'L
MH1	Std. Manhole	4'-0"	146.10	---	HOCO G 5.11	see plan	
MH2	Std. Manhole	5'-0"	148.50	---	HOCO G 5.11	2x15 Little Brooke Court	27'L
MH3	Std. Manhole	4'-0"	155.40	---	HOCO G 5.11	2x15 Little Brooke Court	10'L
MH4	Std. Manhole	"	154.50	---	"	4x12 Scarlet Oak Drive	10'L
MH5	Std. Manhole	"	161.00	---	"	4x12 Scarlet Oak Drive	20'L
MH6	Std. Manhole	"	162.00	---	"	3x15 Scarlet Oak Drive	10'L
MH7	Std. Manhole	"	158.47	---	"	2x15 Scarlet Oak Drive	8'L
ES-1	End Section	---	---	141.00	---	see plan	

\* Indicates elevation @ top of sidewalk frame & cover. Subtract 10" (0.83') to get throat elevation.



Plan  
1" = 20'

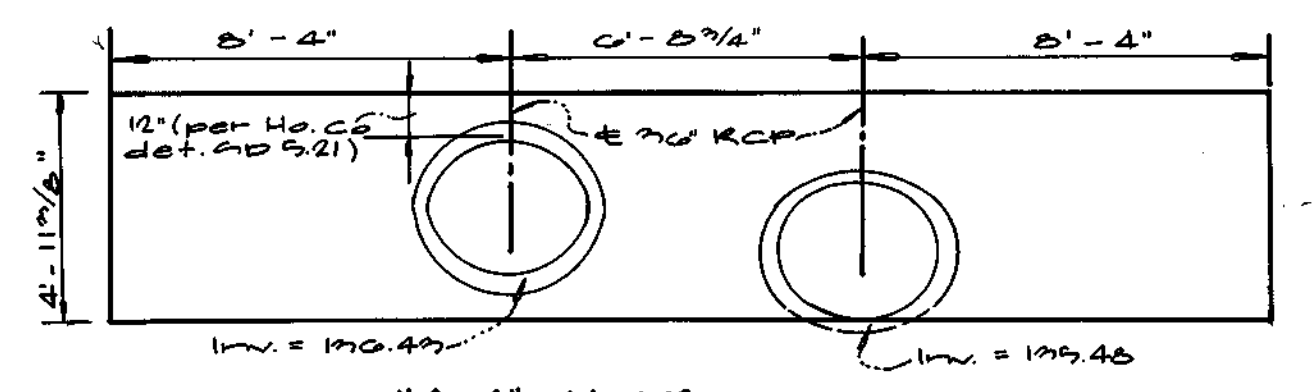


Profiles  
Scale: 1" = 5' Vert.  
1" = 50' Horiz.

Pipe Schedule

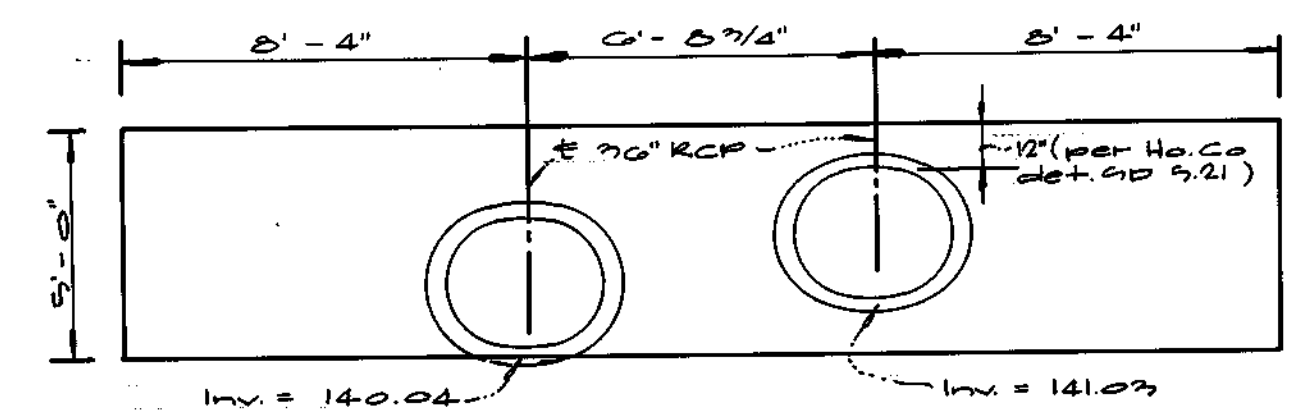
Size	Type	Quantity (L.F.)	Remarks
15"	HDPE	143	
18"	HDPE	874	
24"	HDPE	112	

Note: HDPE indicates High Density Polyethylene Pipe (See Howard County Standards & Specifications).

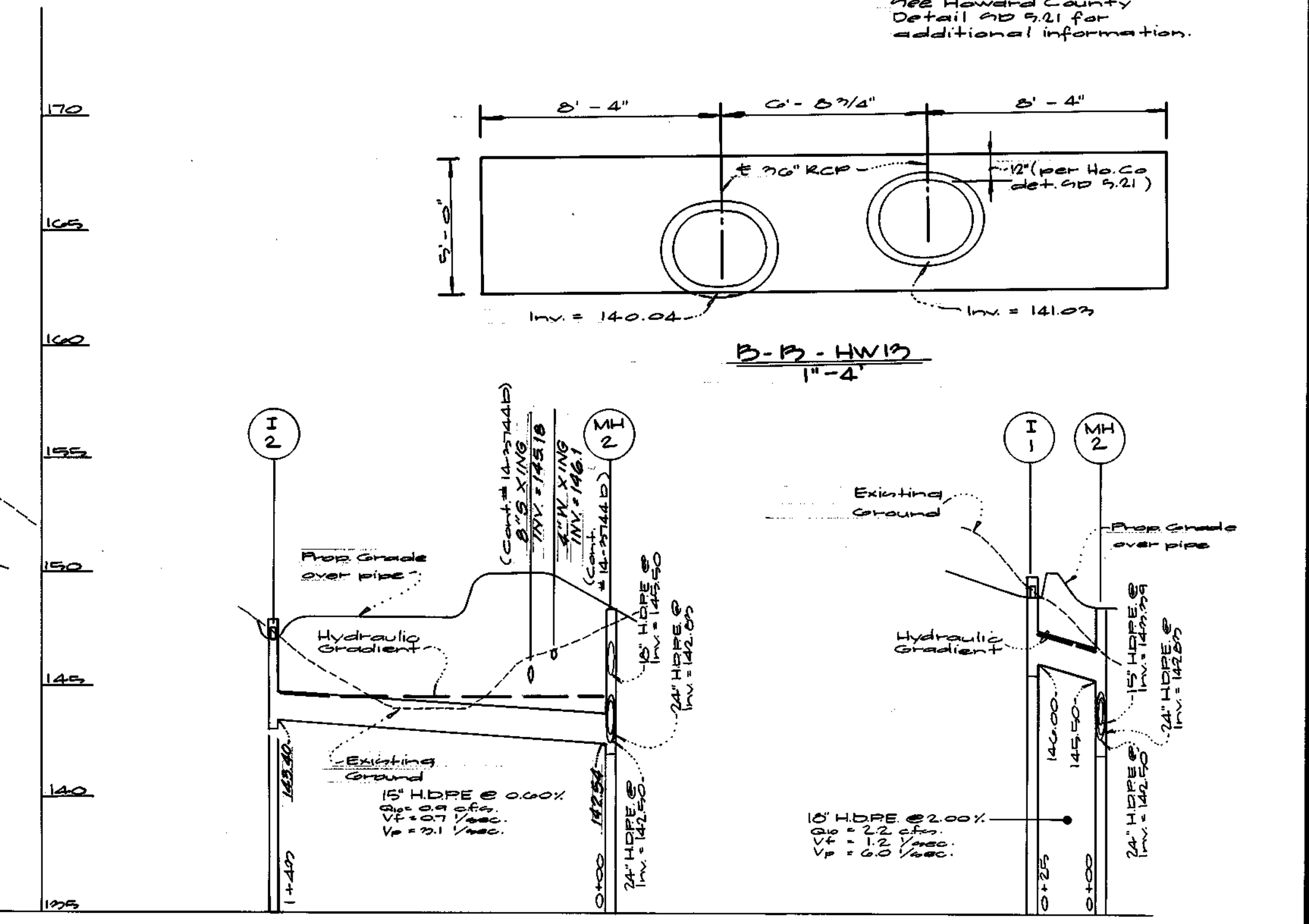
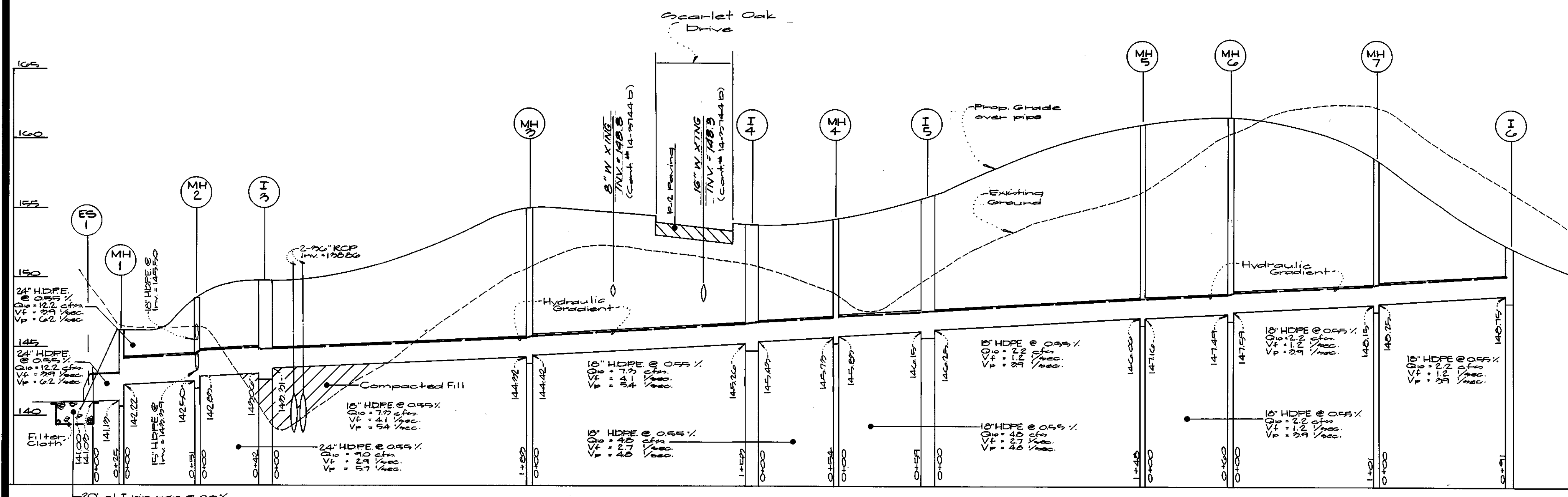


A-A-HW-12  
1" = 4'

Note: See Howard County Detail 920.21 for additional information.



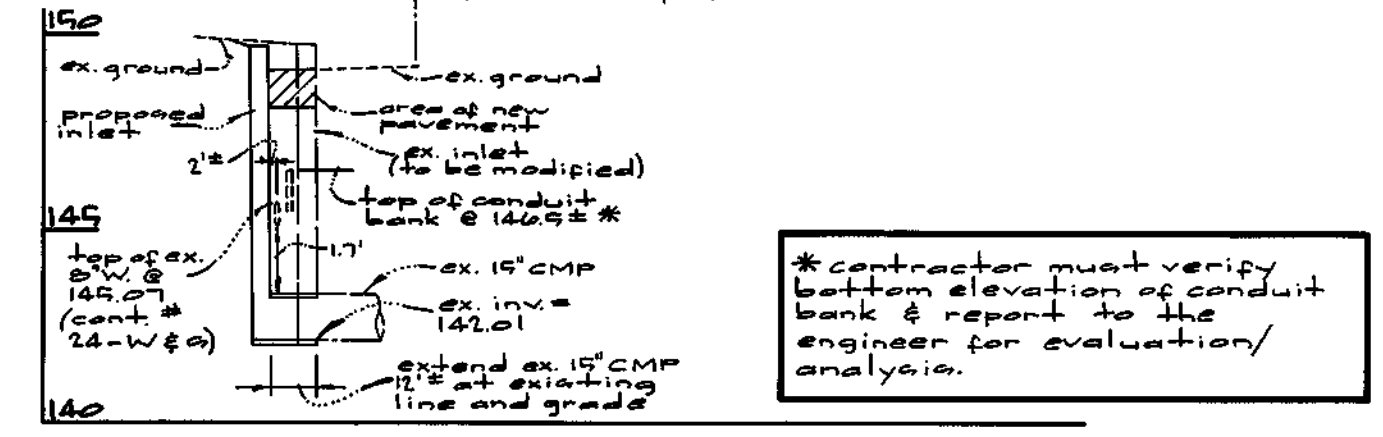
B-B-HW15  
1" = 4'



Approved: Howard County Dept. of Public Works  
**Andrew M. Daniels** 3-8-94  
Chief, Bureau of Highways  
Date

Approved: Howard County Dept. of Planning & Zoning  
**Chris Hamilton** 3/16/94  
Chief, Div. of Land Development  
Date

**John Brown** 3/16/94  
Chief, Development Engineering Div.  
Date



\* Contractor must verify bottom elevation of conduit bank & report to the engineer for evaluation/analysis.



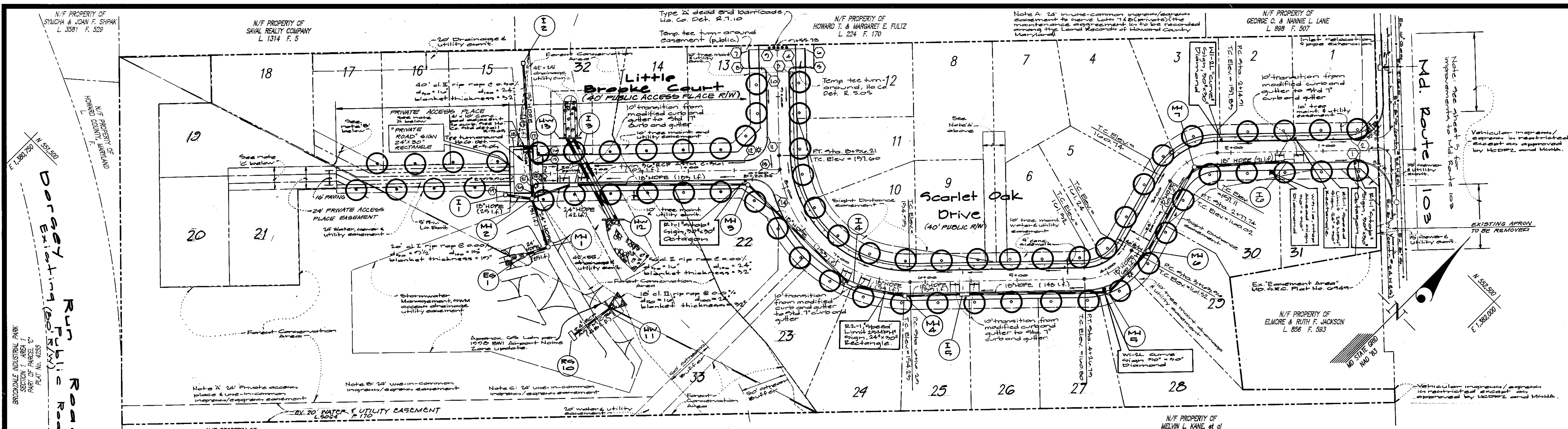
**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
7/14/93	Add details for twin culverts, HW12 and HW15. Revise street name 'Little Brooke Ct.' in schedule and chart.	f.m.m.	
2/25/94	rev. inlet relocation plan & add profile for inlet relocation	k.l.p.	

PREPARED FOR:  
Orchard Development Corp  
2979 Old Columbia Pike  
Ellicott City, Maryland 21042  
Phone: 410-750-1000

Storm Drain Profiles  
**Scarlet Oaks**  
Lots 1 thru 33  
1st Election District - Elkridge  
Howard County, Maryland

DES.	SCALE	ZONING	G.L.W. FILE NO.
DES.	as shown	M-2 R-12	90053
DRN.	DATE	TAX MAP NO.	SHEET
DRN.	JAN 23, 1994	43 Grid 5 & 6	5 of 11



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Andrew M. Daniels* 3-8-99  
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Cindy Hamilton* 3/12/99  
 Chief, Division of Land Development Date

*W. D. ...* 5/1/99  
 Chief, Development Engineering Division Date

Date	Revision	By	Appr.
7/14/97	Revise street name to 'Little Brooke Ct.' in plan and T.C. sheet and add 4' x 12' concrete pad for trash collection.	f.m.m.	
12-1-2000	ADD EX. 20' WATER & UTILITY ESMT. & NEW FOREST CON. LIMITS	B.C.	

Curve Data							
P.C. Sta	P.C.C. Sta	P.T. Sta	Radius	Arc	Tangent	Chord	Bearing Delta
2+14.91	—	2+77.74	60.00'	42.83'	24.04'	60.00'	S14°09'11"W 0°00'00"
4+24.70	—	3+43.90	60.00'	42.83'	24.04'	60.00'	S14°09'11"W 0°00'00"
4+14.25	—	3+24.21	14000'	219.71'	140.00'	197.99'	S87°00'51"W 0°00'00"

Little Brooke Court		
PI #	T.C. Elev.	Station & Offset
19	155.07	0+31.04 12'R
18	154.72	0+20.53 10'L
15	152.45	2+04.0 10'R
16	152.12	2+02.0 15'R
17	151.08	2+00.0 21'R
18	151.51	2+07.0 21'R
19	152.10	2+07.0 20'L
20	152.27	2+07.0 20'L
21	152.12	2+07.0 15'L
22	149.85	2+04.0 10'L

Scarlet Oak Drive		
PI #	T.C. Elev.	Station & Offset
1	149.12	0+00.0 12'L
2	147.75	0+00.0 12'R
3	152.25	0+32 17'R
4	150.00	0+32 30'R
5	150.00	0+52 30'R
6	150.00	0+52 30'R
7	150.01	0+52 30'L
8	150.01	0+52 30'L
9	151.25	0+52 17'L
10	151.05	0+32 12'L
11	151.45	0+32.00 12'L
12	153.57	1+00.04 12'L

**Legend**

- Standard Modified Conc. Curb & Gutter
- Reversed Modified Conc. Curb & Gutter
- Street Light
- Traffic sign

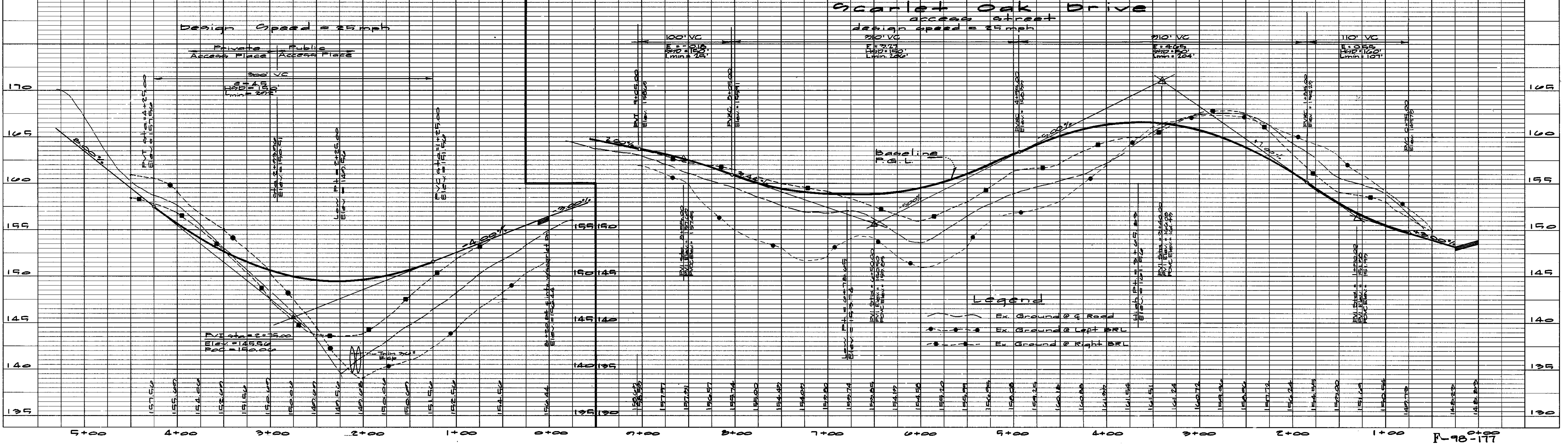
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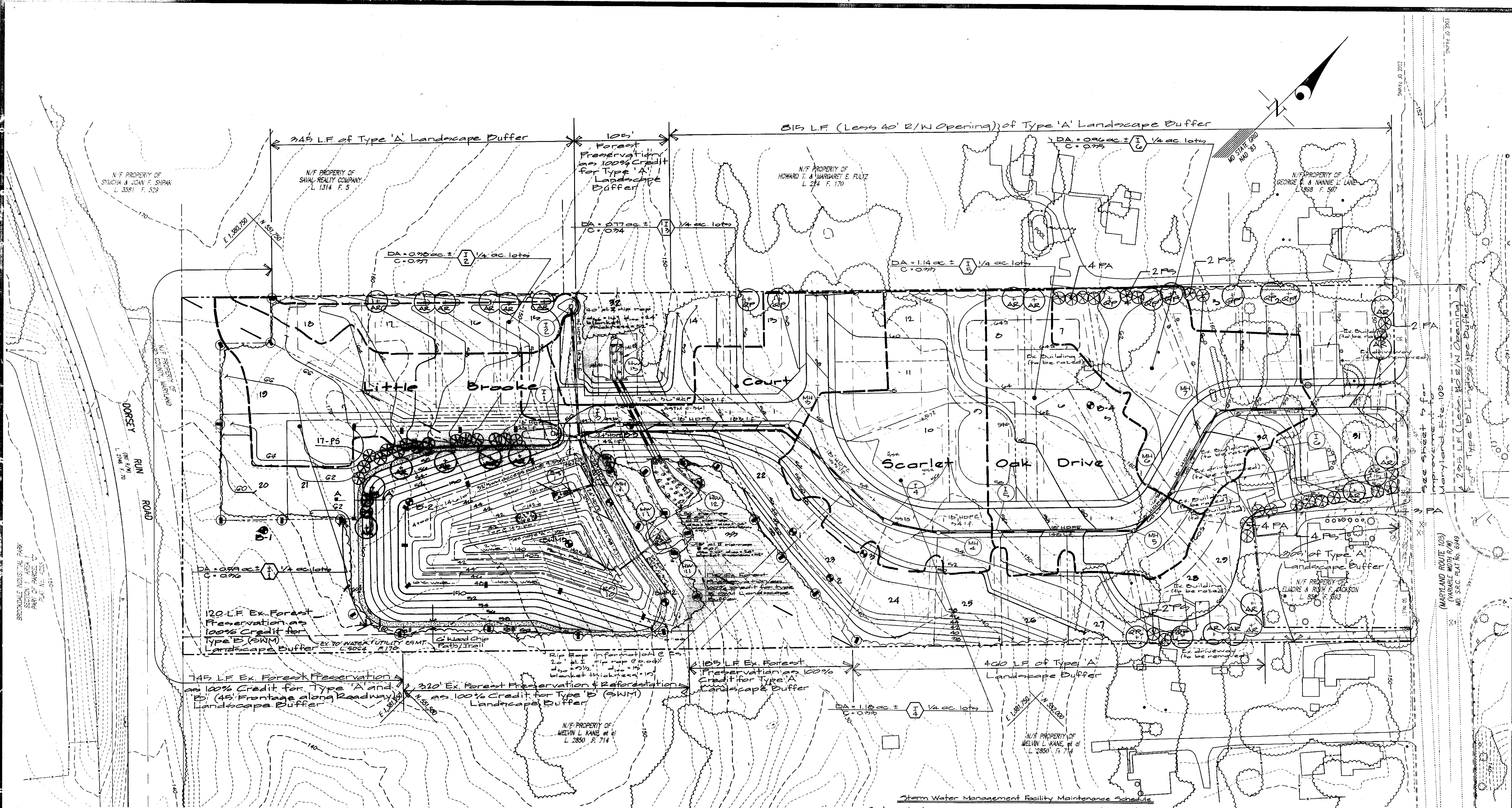
**SCARLET OAKS**  
 LOTS 1 THRU 33

DESIGNED: DEV  
 DRAWN: KLP  
 CHECKED: 1st ELECTION DISTRICT  
 DATE: 1/22/99

PREPARED FOR:  
 SCARLET OAKS, L.L.C.  
 9% ORCHARD DEVELOPMENT CORPORATION  
 3570 OLD COLUMBIA PIKE  
 ELLICOTT CITY, MD 21043  
 ATTN: EARL ARMIGER  
 PH: (410) 750-1800

SCALE: 1"=50'  
 DRAWING: 2 OF 1.1  
 ZONING: R-20  
 JOB No.: 98053

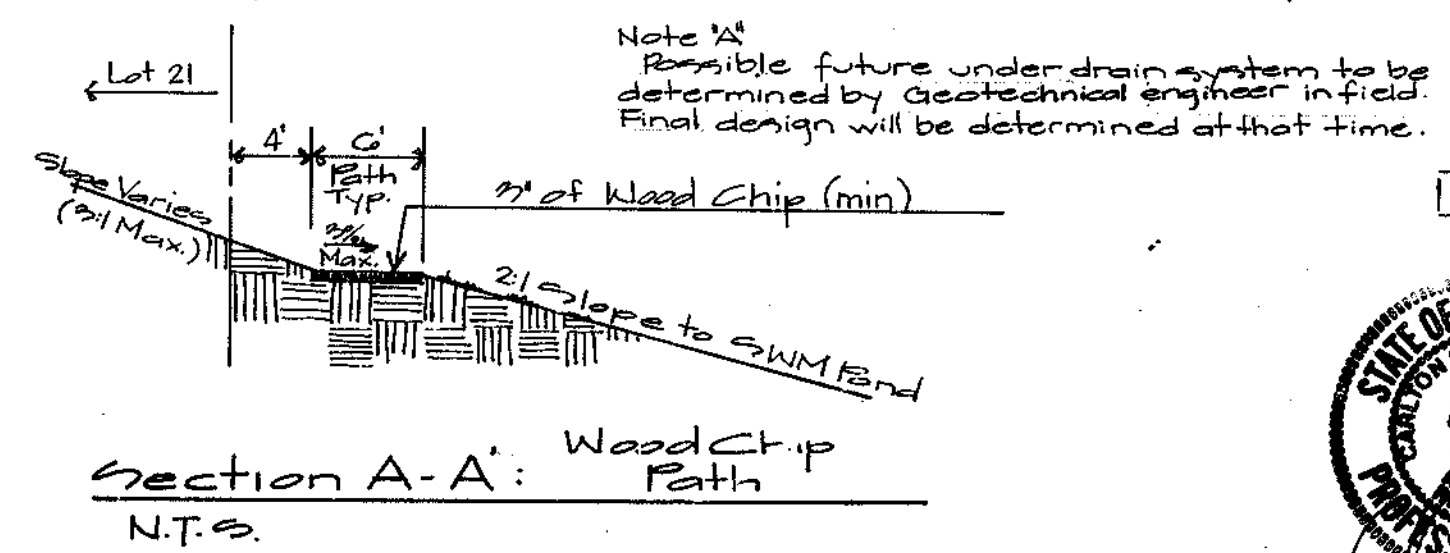




Approved: Howard County Dept of Public Works  
**Andrew M. Daniels** 3-8-99  
 Chief, Bureau of Highways  
 Date

Approved: Howard County Dept of Planning & Zoning  
**Andy Hamstra** 3/14/99  
 Chief, Division of Land Development  
 Date

**W. D. Danner** 3/14/99  
 Chief, Development Engineering Division  
 Date



**Storm Water Management Facility Maintenance Schedule**

**Routing Maintenance**  
 Facility shall be inspected annually and after major storms. Inspections should be performed during wet weather to determine if the pond is functioning properly.  
 Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year: once in June and once in September. Other side slopes, the bottom of the pond and maintenance access should be mowed as needed.  
 Debris and litter next to the outlet structure shall be removed during regular mowing operations and as needed.  
 Visible signs of erosion in the pond as well as riprap outlet area shall be repaired as soon as it is noticed.

**Non-Routing Maintenance**  
 Structural components of the pond such as the dam, pier structure and pipes shall be repaired upon the detection of any damage. The components should be inspected during routine maintenance operations.  
 Sediment should be removed when its accumulation significantly reduces the design storage, interferes with the function of the river, when deemed necessary for aesthetic reasons, or when deemed necessary by the Howard County Dept of Public Works.  
 The SWM facility shown on open space lots has a hazard classification of 'A'. A quantity management is provided through detention while quality is being provided using a permanent pool.

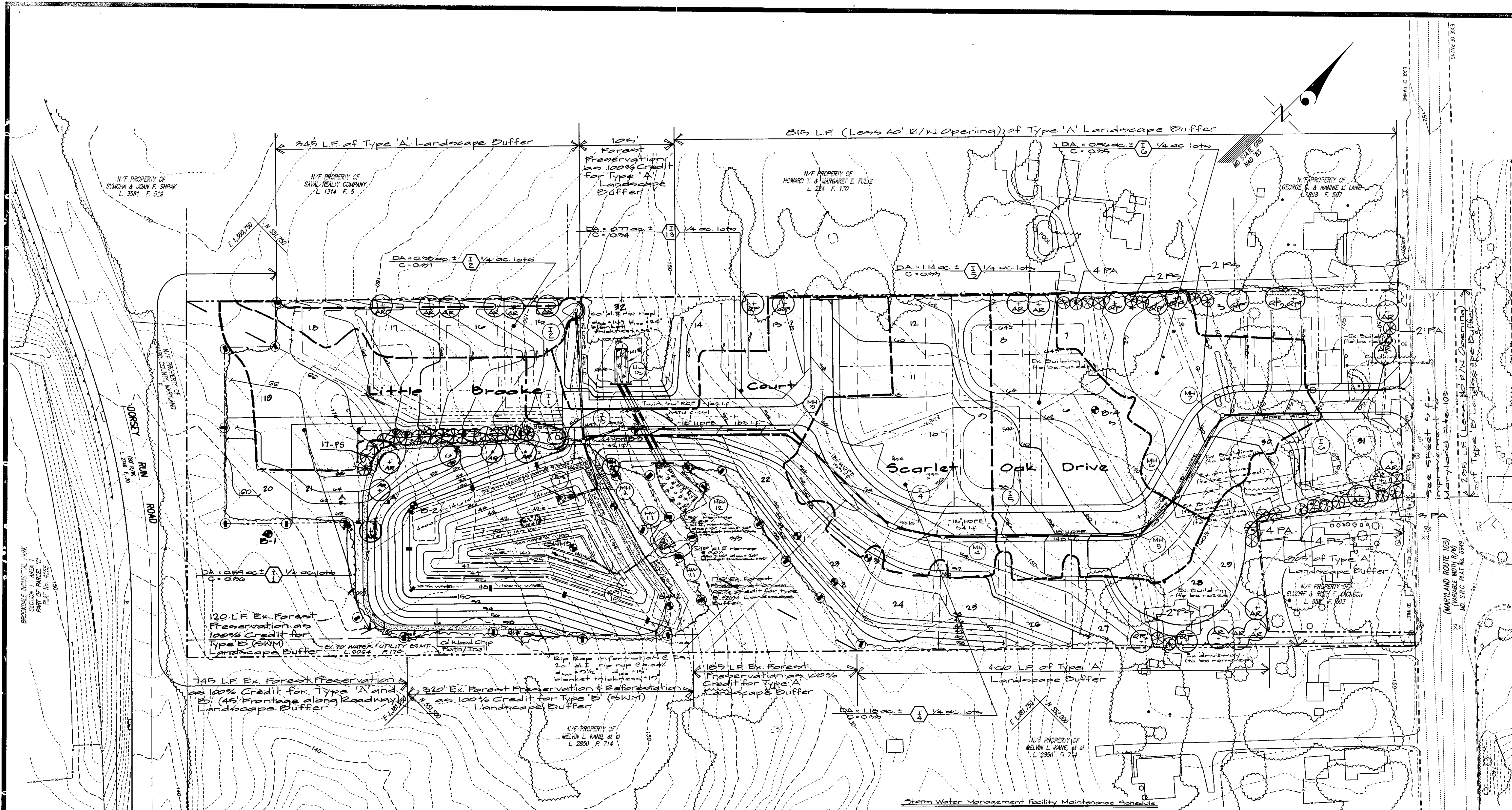
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 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186  
 (DRAWING: 96053.DESIGN) 96053.MC1.DWG

DATE	REVISION	BY	APPR.
7/14/99	revise street name to "Little Brooke Court"		
12-1-2000	ADDED EX. 20" WATER UTIL. ESMT. REMOVED EXIST. SHADING FROM 20" WATER UTIL. ESMT.		

PREPARED FOR:  
**ORCHARD DEVELOPMENT CORPORATION**  
 3979 OLD COLUMBIA PIKE  
 ELLICOTT CITY, MD 21043  
 ATTN: MR. EARL ARMSTRONG  
 PH: 410-750-1800

Mass Grading and Buffer Planting Plan  
**SCARLET OAKS**  
 LOTS 1 THRU 33  
 ELKRIE ELECTION DISTRICT No. 1  
 HOWARD COUNTY, MARYLAND

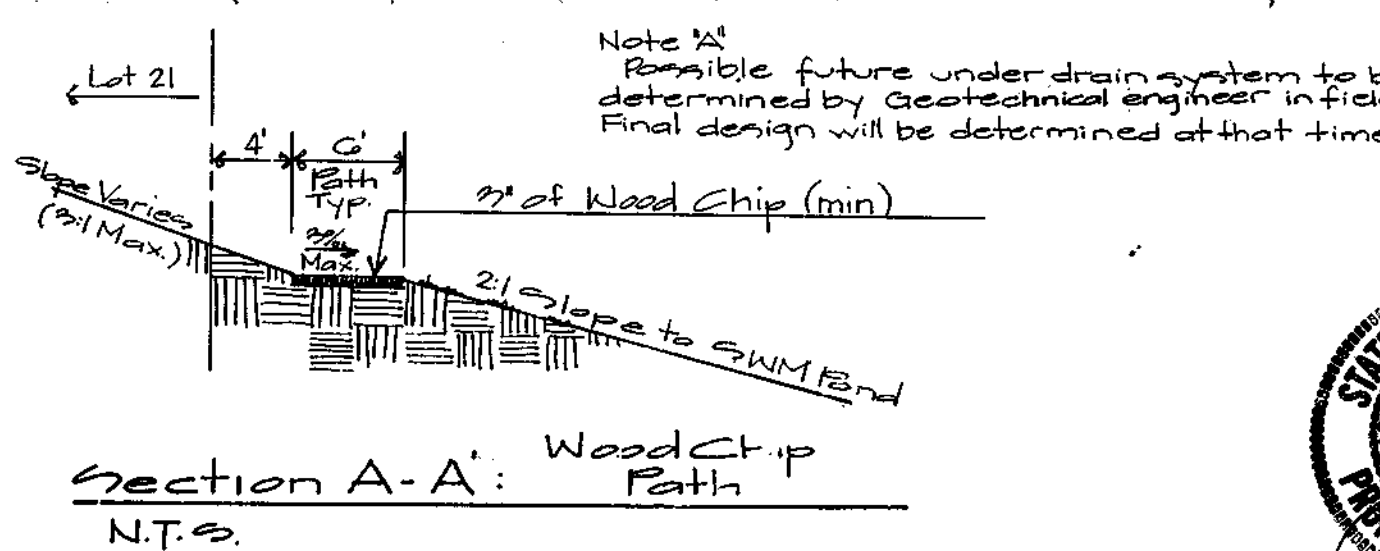
SCALE	ZONING	G. L. W. FILE No.
1"=50'	R-12	96053
DATE	TAX MAP - GRID	SHEET
JAN. 22, 1999	43 - 5/6	3 OF 11



Approved: Howard County Dept. of Public Works  
**Andrew M. Daniels** 3-5-99  
 Chief, Bureau of Highways

Approved: Howard County Dept. of Planning & Zoning  
**Chris Hamstra** 3/14/99  
 Chief, Division of Land Development

**Phil Vasserman** 3/14/99  
 Chief, Development Engineering Division



**Routine Maintenance**  
 Facility shall be inspected annually and after major storms. Inspections should be performed during wet weather to determine if the pond is functioning properly.

Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year: once in June and once in September. Other side slopes, the bottom of the pond, and maintenance access should be mowed as needed.

Debris and litter next to the outlet structure shall be removed during regular mowing operations and as needed.

visible signs of erosion in the pond as well as riprap outlet area shall be repaired as soon as it is noticed.

**Non-Routine Maintenance**  
 Structural components of the pond such as the dam, pier structure and pipes, shall be repaired upon the detection of any damage. The components should be inspected during routine maintenance operations.

Sediment should be removed when its accumulation significantly reduces the design storage, interferes with the function of the river, when deemed necessary for aesthetic reasons, or when deemed necessary by the Howard County Dept. of Public Works.

The SWM Facility shown on open space lots has a hazard classification of 'A'. A quantity management is provided through detention while quality is being provided using a permanent pool.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3000 NATIONAL DRIVE - SUITE 230 - BURTNSVILLE OFFICE PARK  
 BURTNSVILLE, MARYLAND 20868  
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-899-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
7/14/99	revise street name to 'Little Brooke Court'	JKJ	
12-1-2000	ADDED EX. 20' WATER UTIL. CSMT. REMOVED FOREST CONSV. SHADING FROM 20' WATER UTIL. CSMT.	B.C.	
2-28-01	REL. LOCATION OF 6" WOOD CHIP TRAIL, MOVE EVERGREENS & SHADE TREES OFF NEW LOCATION OF PATH, REV. GRADING LOTS 20 & 21 AND SIDE SLOPES OF SWM FACILITY PER EX. CONDITIONS	JKJ	

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