

SHEET INDEX	
SHEET No.	DESCRIPTION
1	TITLE SHEET
2	SPRING HOLLOW COURT PLAN AND PROFILE
3	HALEY'S COURT PLAN AND PROFILE
4	STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
5	STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
6	DRAINAGE AREA MAP
7	DRAINAGE AREA MAP
8	STORM DRAIN PROFILES
9	LANDSCAPE PLAN
10	LANDSCAPE PLAN
11	SEDIMENT CONTROL NOTES AND DETAILS
12	STORMWATER MANAGEMENT NOTES AND DETAILS
13	STORMWATER MANAGEMENT NOTES AND TYPICAL ROADWAY SECTIONS

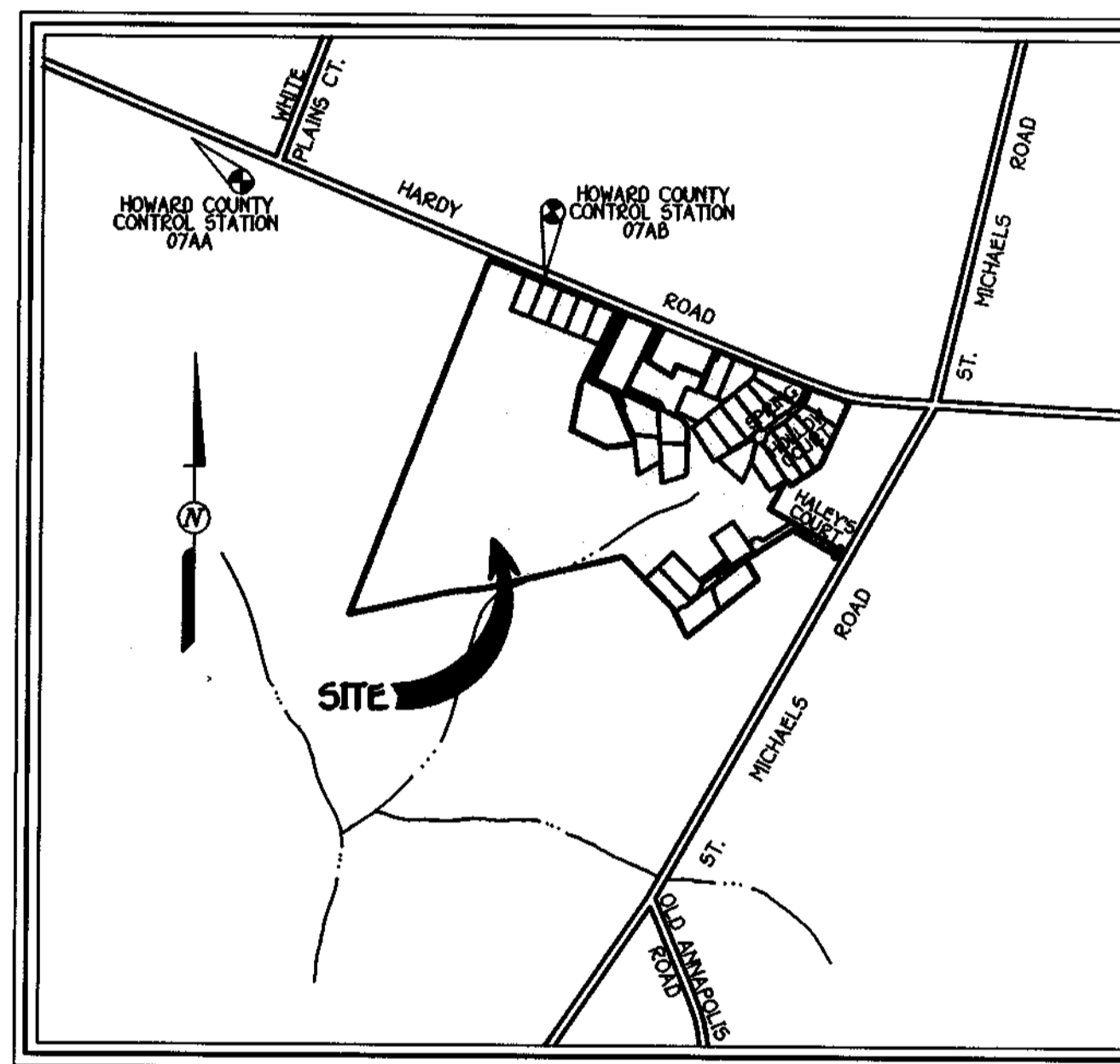
**FINAL ROAD CONSTRUCTION, GRADING AND STORMWATER MANAGEMENT PLANS**  
**SPRING HOLLOW**  
**LOTS 1 THRU 30 AND BUILDABLE PRESERVATION PARCEL 'A'**  
**(A Resubdivision Of "Lambert Green", Plat #10523 - Lot 2, "Hardy Green", Plat #10928 - Lots 1,2,3,4 and 5, "Steven's Delight", Plat #10927 - Lots 4 and 5, "Scott's Delight", Plat #10926 - Lots 4 and 5 and Liber 2806 at Folio 626)**  
**ZONED RC-DEO**  
**TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38**

APPROVED: DEPARTMENT OF PUBLIC WORKS  
*Chris M. Daneker* 3-8-99  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Chris H. Hensley* 3/15/99  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
*Mark M. K...* 3/12/99  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION, MK DATE

TRAFFIC CONTROL SIGNS				
ROAD	C.L. STA.	OFFSET	POSTED SIGN	SIGN CODE
SPRING HOLLOW COURT	0+36	23L	STOP	R1-1
SPRING HOLLOW COURT	1+00	32R	SPEED LIMIT 25	R2-1
HALEY'S COURT	0+36	23L	STOP	R1-1
HALEY'S COURT	2+00	30R	SPEED LIMIT 25	R2-1
SPRING HOLLOW COURT	2+95	---	KEEP RIGHT	R4-7
SPRING HOLLOW COURT	3+74	---	KEEP RIGHT	R4-7

ROAD CLASSIFICATION CHART				
ROAD	CLASSIFICATION	R/W WIDTH	C.L. STA.	
SPRING HOLLOW COURT	PUBLIC ACCESS PLACE	40'	0+00 TO 5+43.92	
HALEY'S COURT	PUBLIC ACCESS PLACE	40' / 50'	0+00 TO 7+01.40	

MINIMUM LOT SIZE CHART				
LOT No.	GROSS AREA	PIPESTEM AREA	REMAINING AREA	MINIMUM LOT SIZE
8	43,671 Sq.Ft.	2,271 Sq.Ft.	41,400 Sq.Ft.	41,400 Sq.Ft.
9	44,103 Sq.Ft.	599 Sq.Ft.	43,504 Sq.Ft.	43,504 Sq.Ft.
16	54,803 Sq.Ft.	6,719 Sq.Ft.	48,084 Sq.Ft.	48,084 Sq.Ft.
17	60,820 Sq.Ft.	11,626 Sq.Ft.	49,194 Sq.Ft.	49,194 Sq.Ft.
18	56,742 Sq.Ft.	15,620 Sq.Ft.	41,122 Sq.Ft.	41,122 Sq.Ft.
19	60,641 Sq.Ft.	1,347 Sq.Ft.	59,294 Sq.Ft.	59,294 Sq.Ft.
20	56,359 Sq.Ft.	13,290 Sq.Ft.	43,069 Sq.Ft.	43,069 Sq.Ft.
21	56,728 Sq.Ft.	649 Sq.Ft.	56,079 Sq.Ft.	56,079 Sq.Ft.
22	65,605 Sq.Ft.	6,716 Sq.Ft.	58,889 Sq.Ft.	58,889 Sq.Ft.
23	60,840 Sq.Ft.	15,767 Sq.Ft.	45,073 Sq.Ft.	45,073 Sq.Ft.
24	59,155 Sq.Ft.	9,414 Sq.Ft.	49,741 Sq.Ft.	49,741 Sq.Ft.



VICINITY MAP  
SCALE: 1" = 1200'

**FOURTH ELECTION DISTRICT**  
**HOWARD COUNTY, MARYLAND**

**GENERAL NOTES**

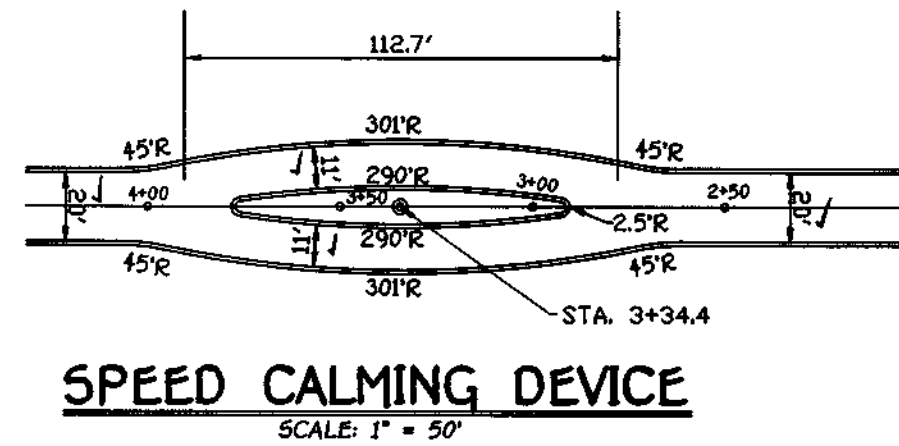
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE FOLLOWING:
  - HOWARD COUNTY STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION VOLUME IV.
  - MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, AS AMENDED.
  - SOIL CONSERVATION SERVICE 1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - SOIL CONSERVATION SERVICE 1993 MARYLAND STANDARDS AND SPECIFICATION FOR POND CONSTRUCTION (CODE 378)
  - EXISTING UTILITIES ARE BASED ON FIELD RUN TOPOGRAPHY.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, DIVISION OF CONSTRUCTION INSPECTION AT 410-313-1800 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- SUBJECT PROPERTY ZONED "RC-DEO" PER 10/18/1993 COMPREHENSIVE ZONING.
- TOTAL AREA OF PROPERTY = 119.37 AC.
  - AREA OF PROPOSED BUILDABLE LOTS: 3117 AC.
  - AREA OF ROAD RIGHT-OF-WAY: 182 AC.
  - TOTAL NO. OF BUILDABLE LOTS: 30
  - TOTAL NO. OF BUILDABLE PARCELS TO BE RECORDED = 1
- Coordinates Based On Nad '83, Maryland Coordinate System As Projected By Howard County Geodetic Control Stations No. 07AA And No. 07AB.  
 07A: 07AA N 186177.3480 E 309177.8418  
 07B: 07AB N 186173.2057 E 309168.0247
- ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS ALLOWED BY APPROVAL OF A WAIVER PETITION OR DESIGN MANUAL WAIVER.
- PRIVATE WATER AND SEWER WILL BE USED WITHIN THE PROJECT.
- THE TRAFFIC STUDY WAS PREPARED BY STREET TRAFFIC STUDIES AND APPROVED BY HOWARD COUNTY UNDER S 98-01 ON 9-18-97.
- THIS PLAN IS BASED ON AERIAL TOPOGRAPHY FLOWN ON OR ABOUT MAY, 1996.
- ALL AREAS ARE MORE OR LESS (a)
- REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE TO BE PROVIDED AT THE JUNCTION OF THE PIPE / FLAG STEM AND THE ROAD R/W AND NOT ONTO THE PIPE / FLAG STEM DROVEWAY.
- PREVIOUS FILE NUMBERS: S 98-01, P 98-26 AND WP 98-03.
- FOREST CONSERVATION IS PROVIDED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JAN. 20, 1998.
- THE FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL REQUIREMENTS OF SECTION 161200 OF THE HOWARD COUNTY FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON AN APPROVED ROAD CONSTRUCTION DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- STORMWATER MANAGEMENT FACILITY SHALL BE OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION.
- A WAIVER PETITION (WP 98-03) FOR SECTION 16120 (b) (6) (i) OF THE SUBDIVISION REGULATIONS WAS APPROVED ON 9-28-97 TO ALLOW FOUR (4) ADJACENT PIPESTEMS LOTS FOR LOTS 17 THRU 20 SUBJECT TO THE FOLLOWING CONDITIONS:
  - FOLLOWING THE RECORDED OF THE SUBDIVISION PLAT FOR LOTS 17 THRU 20, THE DEVELOPER SHALL RECORD A SHARED DRIVEWAY MAINTENANCE AGREEMENT.
  - ON THE FORTHCOMING PLAT, THE ADJACENT PIPESTEMS FOR LOTS 17 THRU 20 SHALL BE ENCLUMBERED WITH A SHARED ACCESS EASEMENT (MINIMUM WIDTH 24 FEET) FOR USE BY THOSE LOTS. WITHIN THIS EASEMENT, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF A SHARED DRIVEWAY MEETING THE STANDARDS OF THE DEPARTMENT OF PUBLIC WORKS AND THE DEPARTMENT OF FIRE AND RESCUE SERVICES.
- A WAIVER FOR SECTION 16120 (b) (6) (i) TO ALLOW ADJACENT PIPESTEMS FOR MORE THAN FOUR (4) LOTS FOR LOTS 21 THRU 27 AND SECTION 16121 (a) (1) AND (2) TO ALLOW OPEN SPACE LOTS TO HAVE 25' FRONTAGE ON A PUBLIC ROAD AND ACCESS TO THE OPEN SPACE LOTS FROM THE RESIDENTIAL LOTS VIA AN EASEMENT WAS DENIED.
- PERIMETER LANDSCAPING FOR PERIMETERS P19, P20 AND P21 ARE TO BE DEFERRED UNTIL SUCH TIME AS LOTS 26 THRU 30 ARE SOLD AND BUILT ON. THESE PERIMETERS WILL BE INSTALLED UPON APPROVAL OF A GRADING OR BUILDING PERMIT FOR LOTS 26 THRU 30. NO BONDING FOR THESE PERIMETERS IS REQUIRED AS THIS TIME.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK • 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21117  
 (410) 461-2955  
 3055911e sheet.dwg

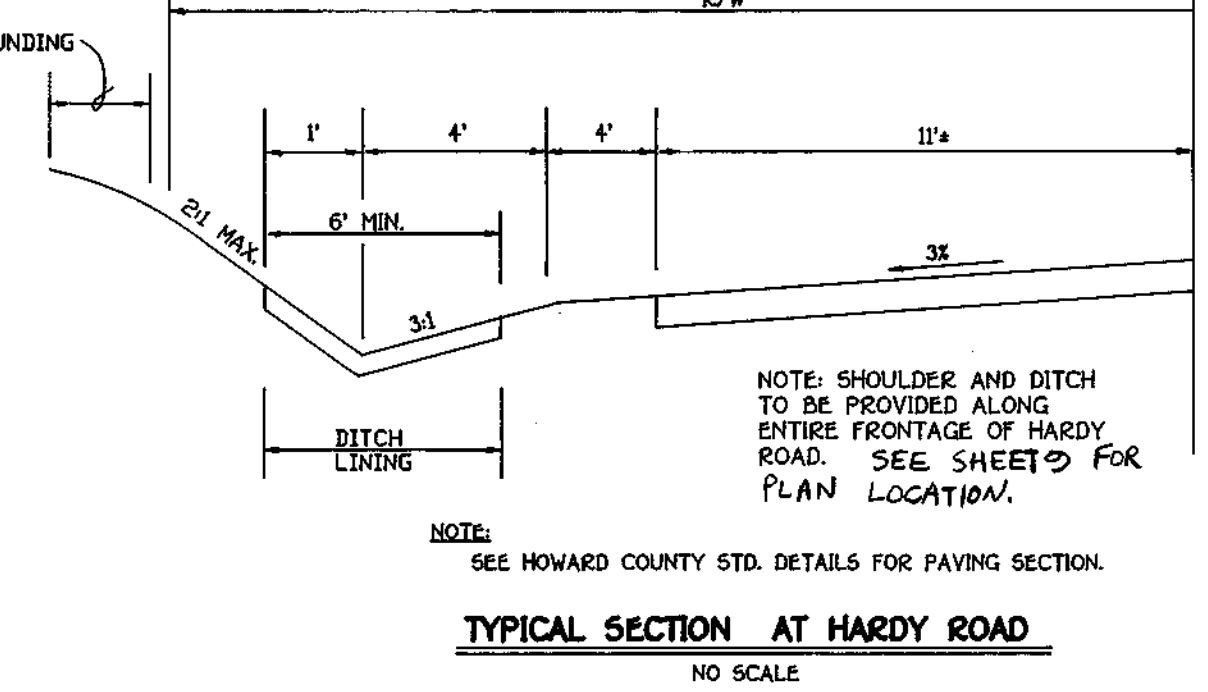
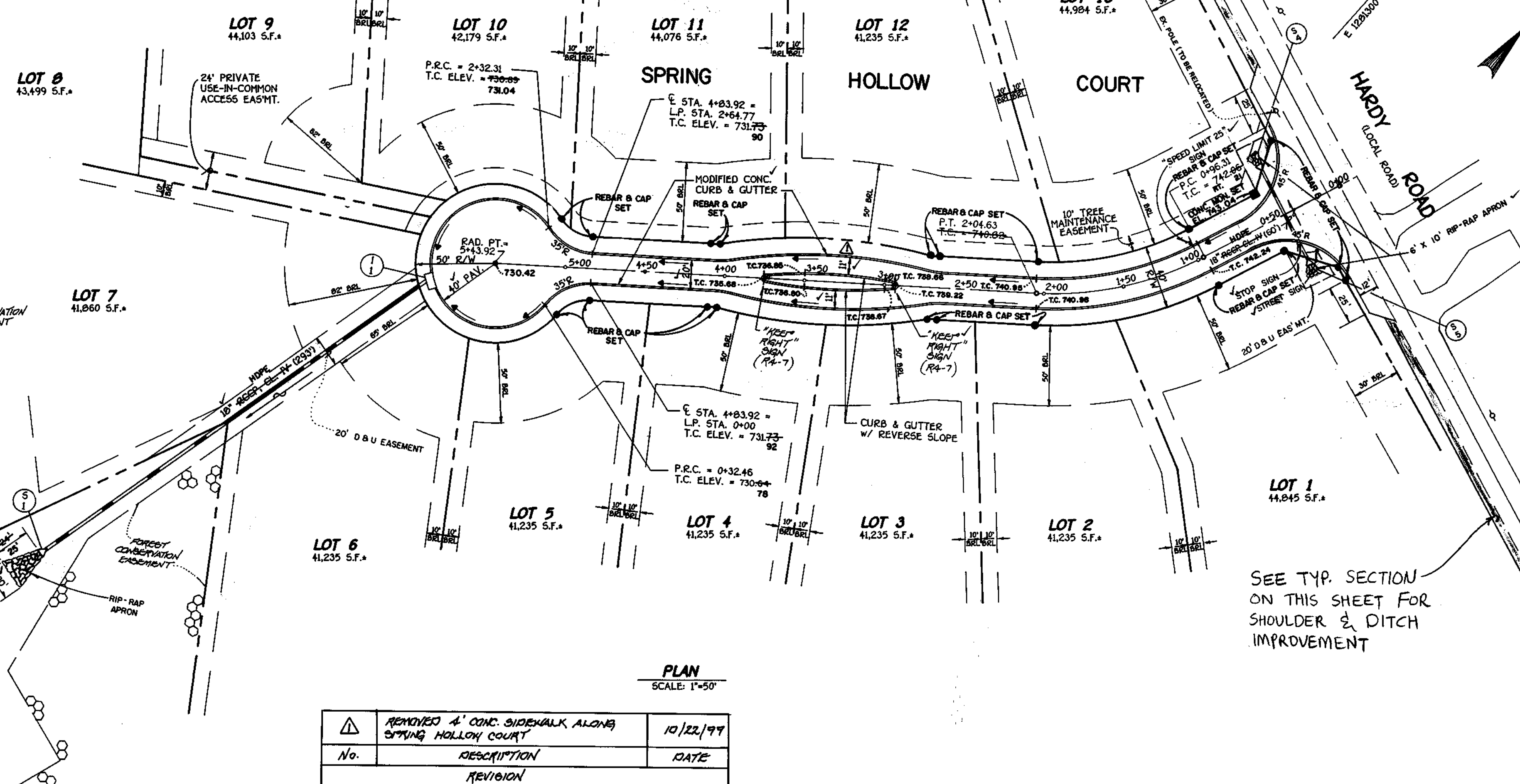
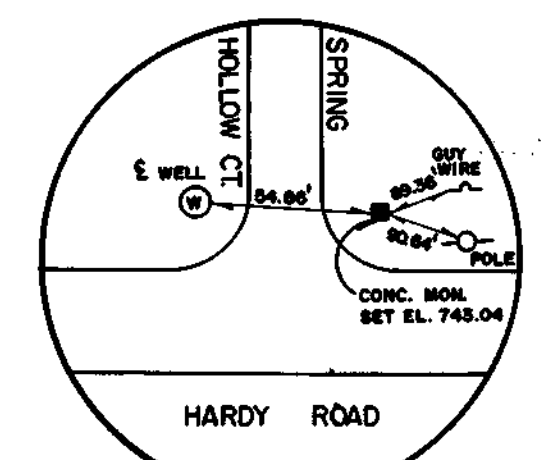
**OWNER**  
 MR. LAMBERT CISEL  
 3425 HESLEY HILL ROAD  
 WOODBINE, MARYLAND 21797  
**DEVELOPER**  
 HERITAGE LAND DEVELOPMENT  
 C/O TIMOTHY W. FEAGA  
 3243 BETHANY LANE  
 ELLICOTT CITY, MARYLAND 21142

*Jayesh V. Pancholi*  
 JAYESH V. PANCHOLI, P.E.  
 DATE: 9-20-98

**SPRING HOLLOW**  
**LOTS 1 THRU 30 AND BUILDABLE PRESERVATION PARCEL 'A'**  
 (A RESUBDIVISION OF "LAMBERT GREEN", PLAT #10523 - LOT 2, "HARDY GREEN", PLAT #10928 - LOTS 1 THRU 5, "STEVEN'S DELIGHT", PLAT #10927 - LOTS 4 AND 5, "SCOTT'S DELIGHT", PLAT #10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)  
 ZONED RC-DEO  
 TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: NOVEMBER 18, 1998  
 SHEET 1 OF 13



**SPRING HOLLOW COURT**  
 CURVE DATA  
 STA. 0+96.31 TO STA. 2+04.63  
 R = 200.00'  
 L = 308.32'  
 Δ = 31°01'53"  
 T = 55.52'  
 CHD. =



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Cinda Hamilton* 3/15/99  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Mike Dammann* 8/12/99  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Andrew M. Damske* 3-8-99  
 CHIEF, BUREAU OF HIGHWAYS DATE

No.	REVISION	DATE
1	REMOVED 4' CONC. SIDEWALK ALONG SPRING HOLLOW COURT	10/22/99

**SPRING HOLLOW**  
 LOTS 1 THRU 30 AND BUILDABLE PRESERVATION PARCEL 'A'  
 (A RESUBDIVISION OF "LANEVIEW GREEN", PLAT NO. 10523 - LOT 2, "HAWKEY GREEN", PLAT NO. 10929 - LOTS 1 THRU 5, "STEVENS DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5, "SCOTT'S DELIGHT", PLAT NO. 19009 - LOTS 4 AND 5 AND LINES 2806 AT FOLIO 628) ZONED RC-DEO  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**SPRING HOLLOW COURT**  
 PLAN AND PROFILE

**DEVELOPER**  
 HERITAGE LAND DEVELOPMENT  
 C/O TIMOTHY W. FEAGA  
 3543 BETHANY LANE  
 ELLICOTT CITY, MARYLAND 21042

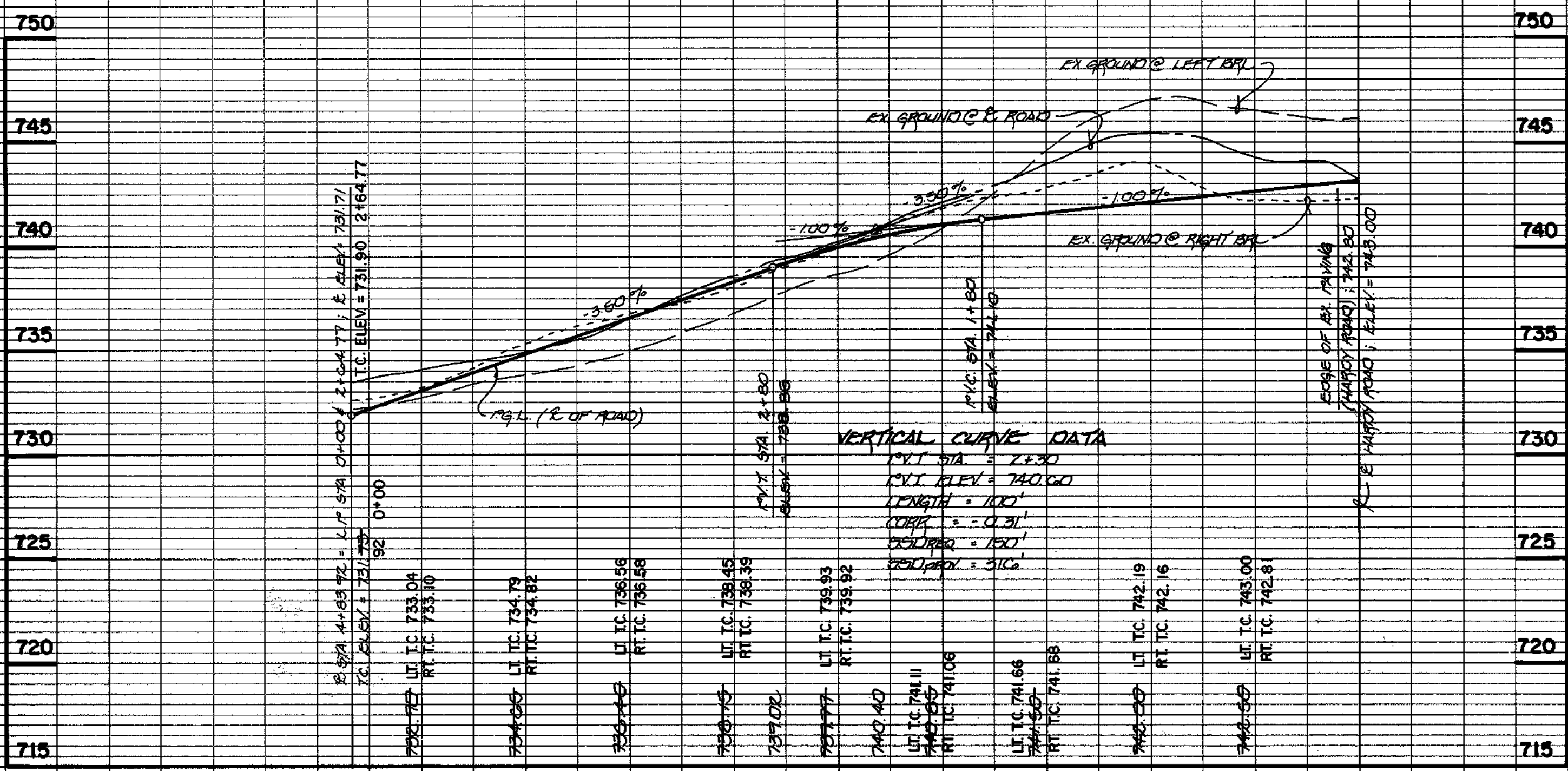
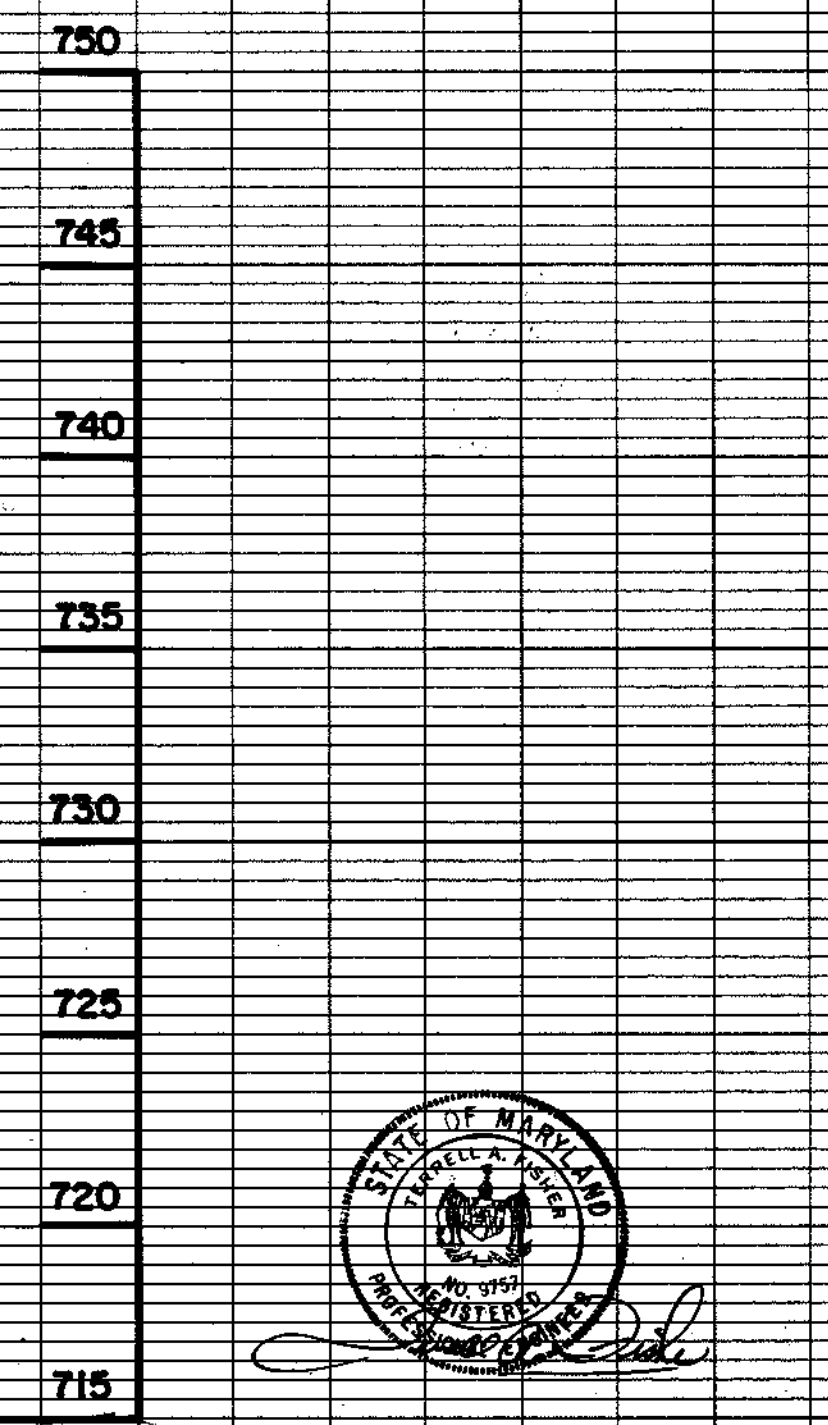
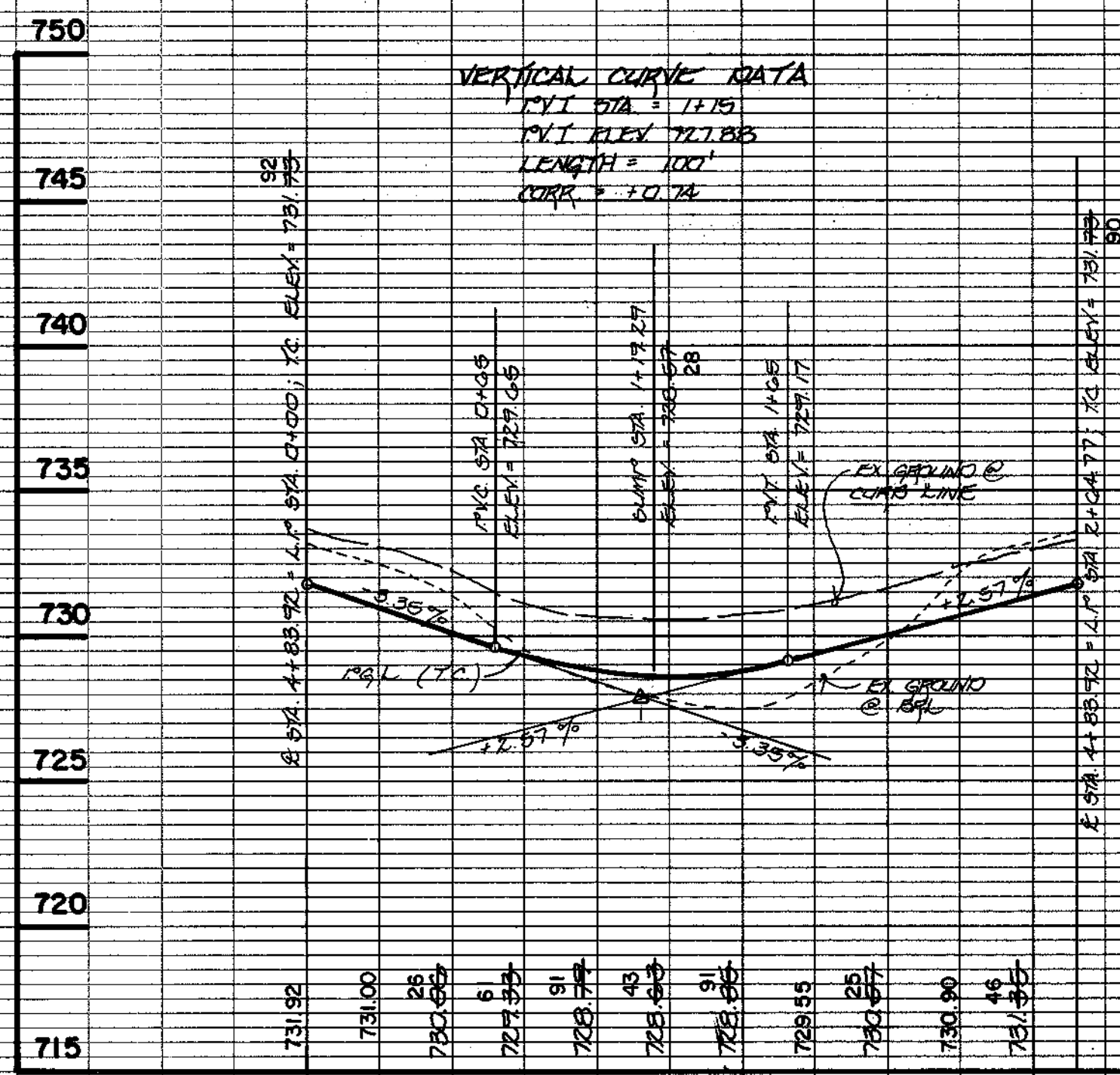
**OWNER**  
 MR. LAMBERT CISEL  
 3425 HIPSLEY HILL ROAD  
 WOODBINE, MARYLAND 21797

SCALE: AS SHOWN DATE: AUG. 10, 1998 DWG. NO. 2 OF 13  
 DES. J.V.P. DRN. J.C.L. CHK. Z.Y.F.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21114  
 (410) 461-2900

**SPRING HOLLOW COURT**  
 LINEAR PROFILE

**SPRING HOLLOW COURT**  
 DESIGN SPEED = 25 M.P.H.



**PROFILES**  
 SCALE: HOR. 1" = 50'  
 VER. 1" = 5'



LOT LINE REMOVED BY RECORDATION OF THIS PLAT

OPEN SPACE  
LOT 5  
STEVEN'S DELIGHT  
PLAT No. 10927

N 608,000  
E 1,280,500

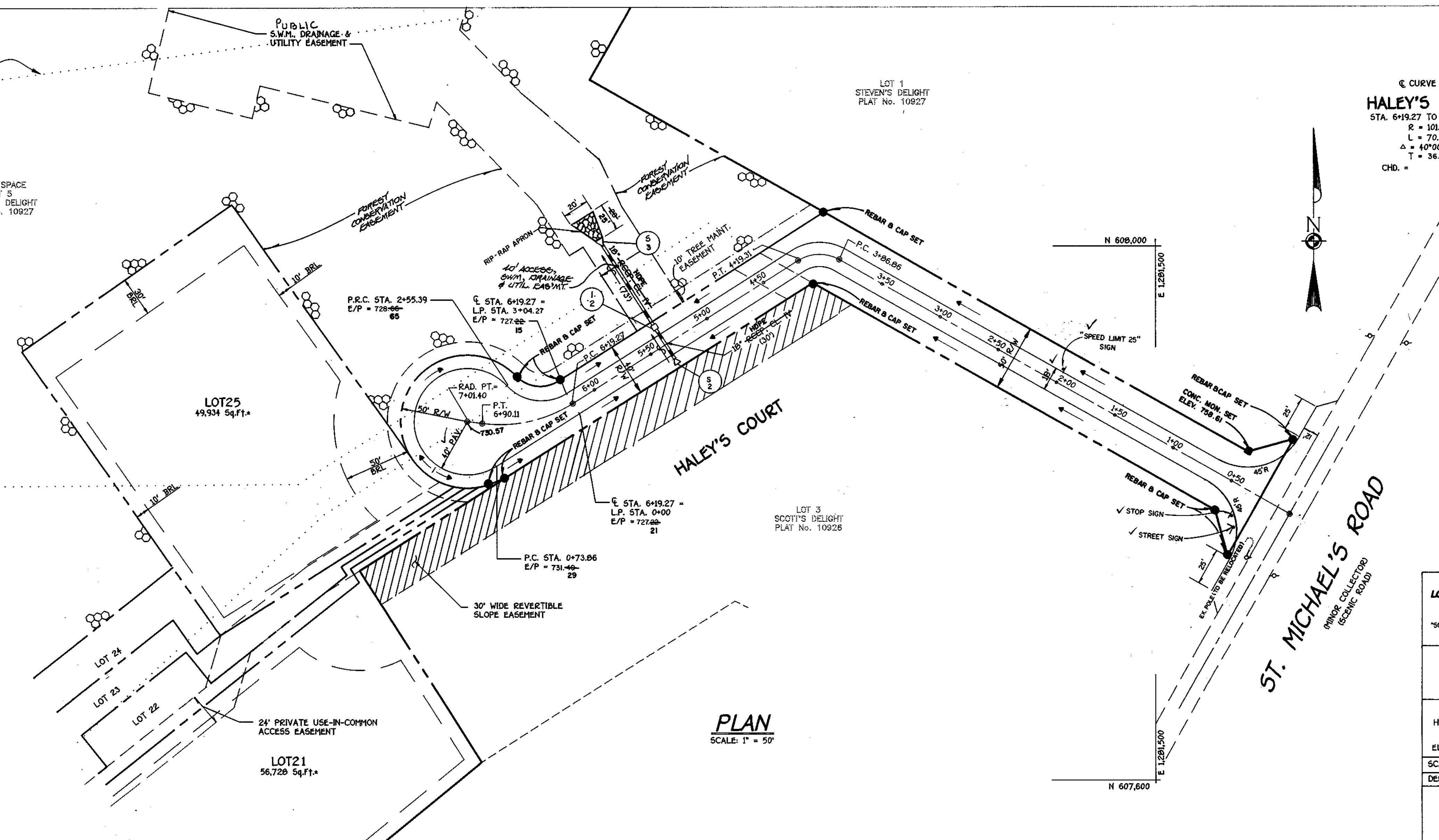
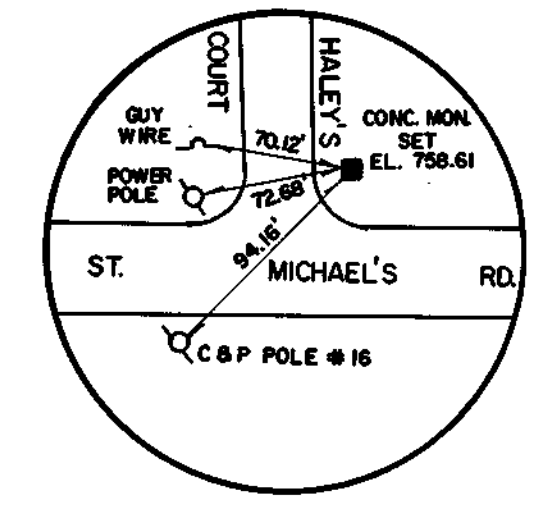
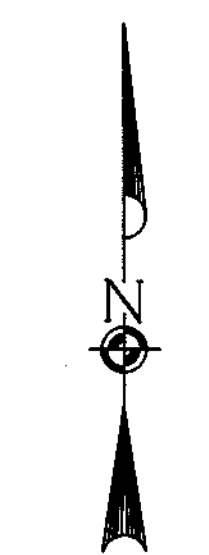
LOT LINE REMOVED BY RECORDATION OF THIS PLAT

PUBLIC  
S.W.M. DRAINAGE &  
UTILITY EASEMENT

LOT 1  
STEVEN'S DELIGHT  
PLAT No. 10927

© CURVE DATA  
**HALEY'S COURT**  
STA. 6+19.27 TO STA. 6+90.11  
R = 101.45'  
L = 70.84'  
Δ = 40°00'33"  
T = 36.93'  
CHD. =

© CURVE DATA  
**HALEY'S COURT**  
STA. 3+86.66 TO STA. 4+19.31  
R = 30.00'  
L = 32.45'  
Δ = 61°59'16"  
T = 18.02'  
CHD. =



**PLAN**  
SCALE: 1" = 50'

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Cindy Hamstra* 7/15/99  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*John J. Williams* 8/12/99  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Andrew M. Daniels* 7-8-99  
CHIEF, BUREAU OF HIGHWAYS  
DATE

**SPRING HOLLOW**  
LOTS 1 THRU 30 AND BUILDABLE PRESERVATION PARCEL 'A'  
(A RESUBDIVISION OF "LANEWOOD GREEN", PLAT NO. 10923 - LOT 2,  
"HANGY GREEN", PLAT NO. 10928 - LOTS 1 THRU 5,  
"STEVEN'S DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5,  
"SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LINES 2806 AT FOLIO 628  
ZONED RC-DEO  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

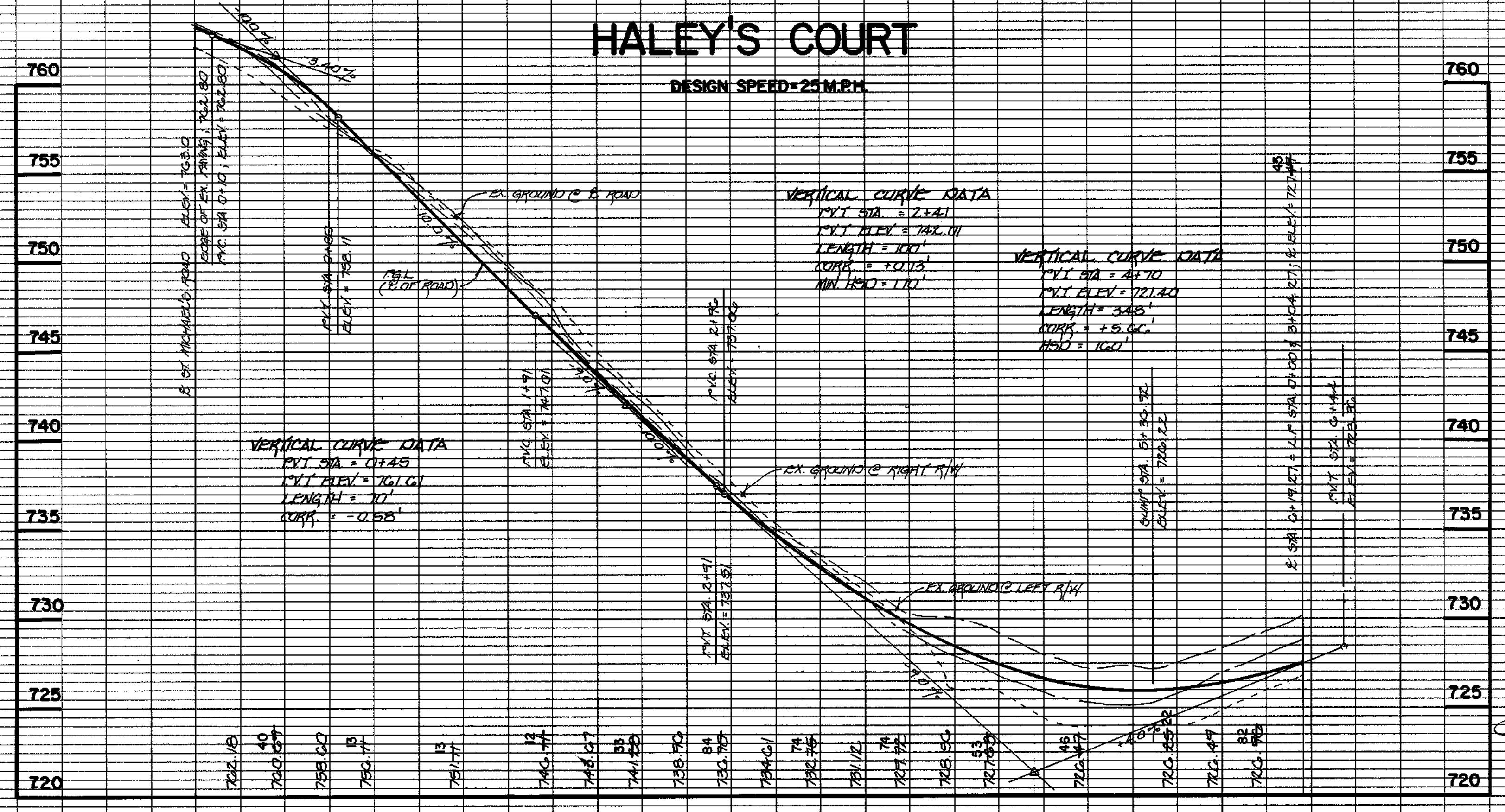
**HALEY'S COURT**  
PLAN AND PROFILE

**DEVELOPER**  
HERITAGE LAND DEVELOPMENT  
C/O TIMOTHY W. FEAGA  
3243 BETHANY LANE  
ELLICOTT CITY, MARYLAND 21042

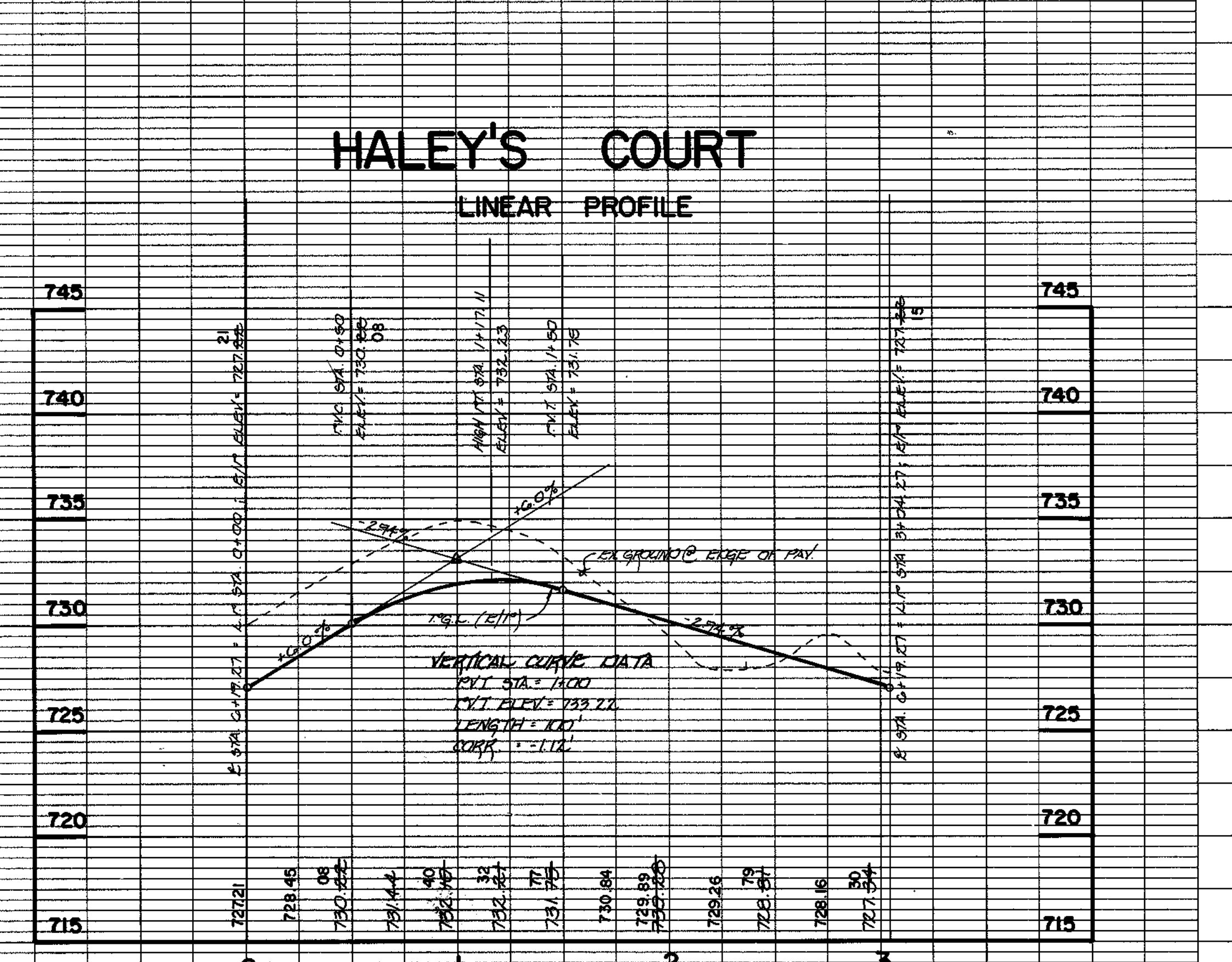
**OWNER**  
MR. LAMBERT CIGSEL  
3425 HIPSLEY HILL ROAD  
WOODBINE, MARYLAND 21797

SCALE: AS SHOWN DATE: AUG. 10, 1998 DWG. NO. 3 OF 13  
DES. J.V.P. DRN. J.C.L. CHK. Z.Y.F.

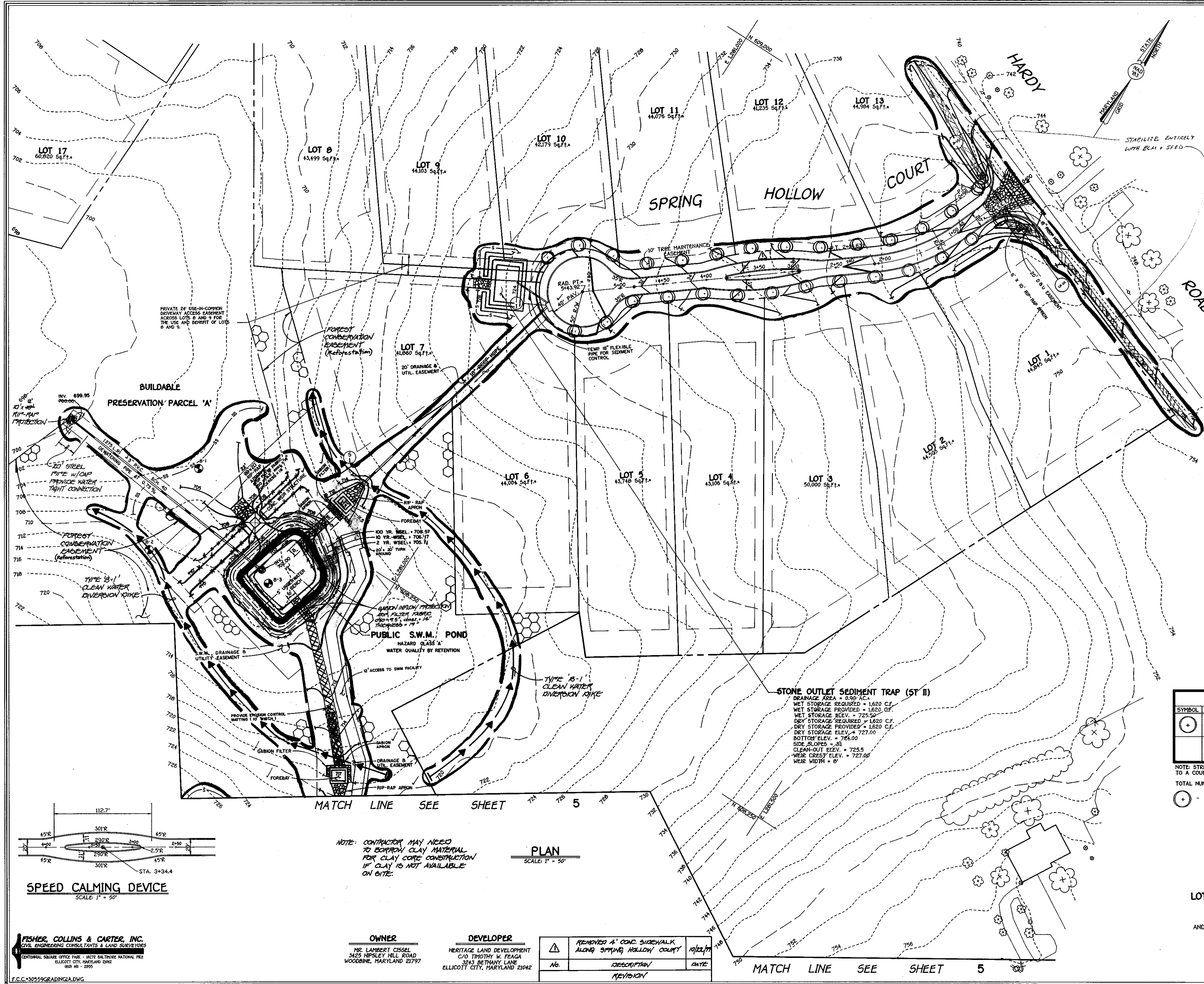
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21042  
MAP NO. 9022



**PROFILES**  
SCALE: HOR: 1" = 50'  
VER: 1" = 5'







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 At A 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.

*Wills Lambert Cissel* 8/24/98  
 Signature Of Developer Date

Printed Name Of Developer  
 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/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.

*Terrell A. Fisher* 8/20/98  
 Signature Of Engineer Date

Printed Name Of Engineer  
 These Plans Have Been Reviewed For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction, Erosion And Sediment Control.

*Cheryl Stinson/CS* 2/24/99  
 Signature Of Engineer Date  
 USDA-Natural Resources Conservation Service

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.

*John Selig* 2/26/99  
 Signature Of Engineer Date  
 Howard Soil Conservation District

Approved Department Of Public Works  
*Roberto M. Sandoval* 3-8-99  
 Signature Date  
 Chief, Bureau Of Highways

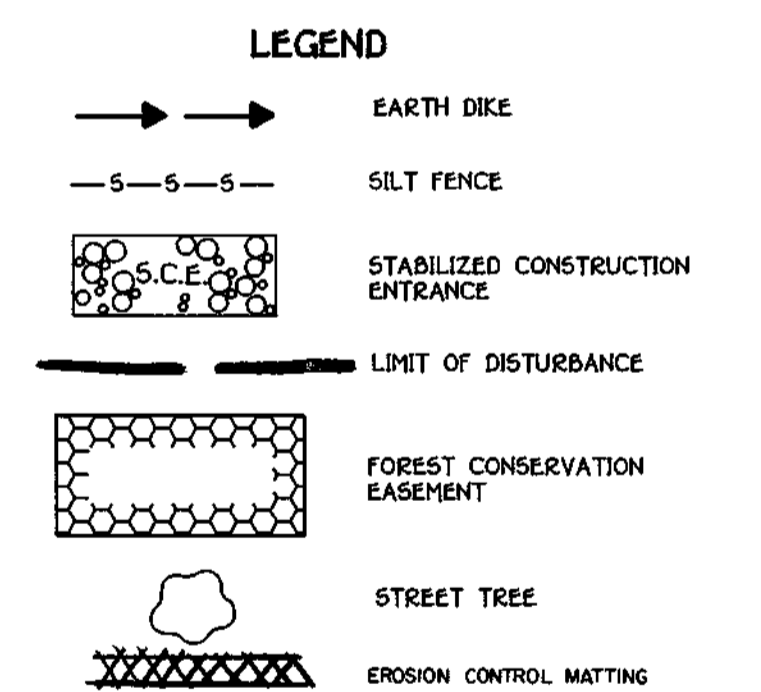
Approved Department Of Planning And Zoning  
*Chris Hanrahan* 3/15/99  
 Signature Date  
 Chief, Division Of Land Development

*Chris Hanrahan* 3/12/99  
 Signature Date  
 Chief, Development Engineering Division

AS-BUILT CERTIFICATION  
 I Herby Certify That The Facility Shown On This Plan Was Constructed As Shown On The "As-Built" Plans And Meets The Approved Plans And Specifications.

Signature \_\_\_\_\_ P.E. No. \_\_\_\_\_  
 Date: \_\_\_\_\_

Certify Means To State Or Declare A Professional Opinion Based Upon Onsite Inspections And Material Tests Which Are Conducted During Construction. The Onsite Inspections And Material Tests Are Those Inspections And Tests Deemed Sufficient And Appropriate Commonly Accepted Engineering Standards. Certify Does Not Mean Or Imply A Guarantee By The Engineer Nor Does An Engineer's Certification Relieve Any Other Party From Meeting Requirements Imposed By Contract, Employment, Or Other Means, Including Meeting Commonly Accepted Industry Practices.

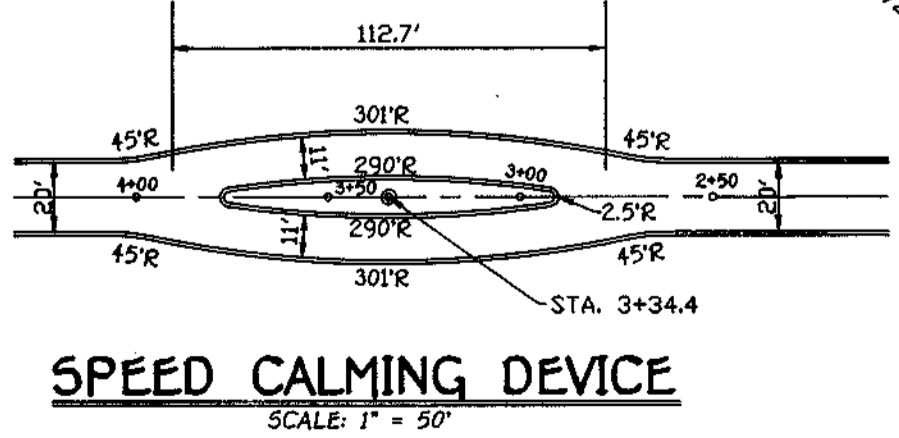


**STREET TREE SCHEDULE**

SYMBOL	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
⊕	ACER RUBRUM 'OCTOBER GLORY' RED MAPLE	1/ 2'-2'-3" CAL.	40' APART ON PUBLIC R/W

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:  
 ⊕ - 29 TREES



NOTE: CONTRACTOR MAY NEED TO BORROW CLAY MATERIAL FOR CLAY CORE CONSTRUCTION IF CLAY IS NOT AVAILABLE ON SITE.

**PLAN**  
 SCALE: 1" = 50'

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21117  
 (410) 481-2855

**OWNER**  
 MR. LAMBERT CISSSEL  
 3425 HIPSLEY HILL ROAD  
 WOODBINE, MARYLAND 21797

**DEVELOPER**  
 HERITAGE LAND DEVELOPMENT  
 C/O TIMOTHY W. FRAGA  
 3243 BE THANY LANE  
 ELLICOTT CITY, MARYLAND 21042

No.	DESCRIPTION/REVISION	DATE
1	REMOVED 4' CONC. SIDEWALK ALONG SPRING HOLLOW COURT	10/22/97

**STREET TREE, GRADING AND SEDIMENT CONTROL PLAN**  
**SPRING HOLLOW**  
 LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'  
 (A RESUBDIVISION OF 'LAMBERT GREEN', PLAT NO. 10923 - LOT 2,  
 'HARDY GREEN', PLAT NO. 10926 - LOTS 1 THRU 5,  
 'STEVEN'S DELIGHT', PLAT NO. 10927 - LOTS 4 AND 5,  
 AND 'SCOTT'S DELIGHT', PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)  
 ZONED RC-DEO  
 TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: AUGUST 10, 1998  
 SHEET 4 OF 13

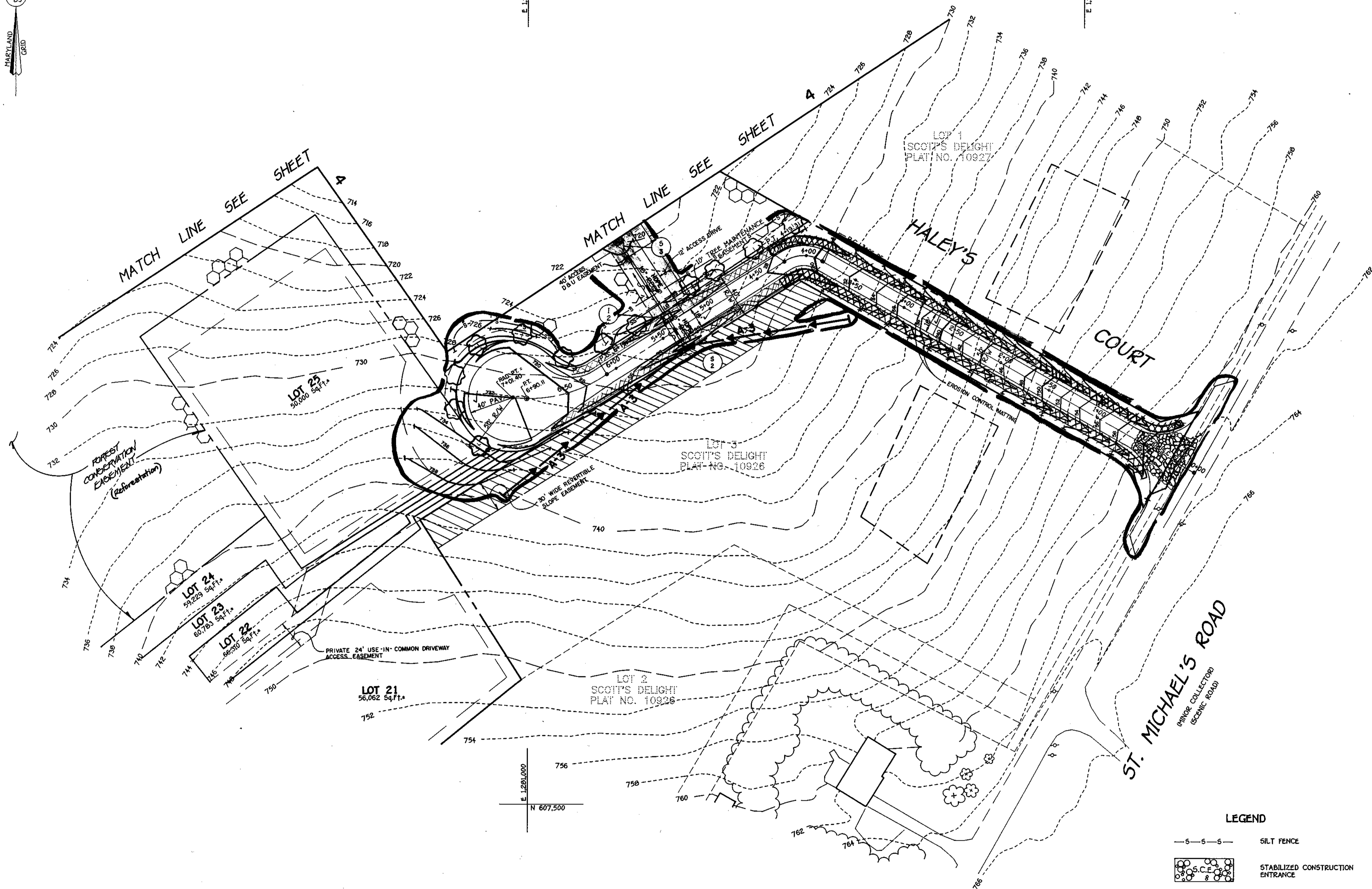




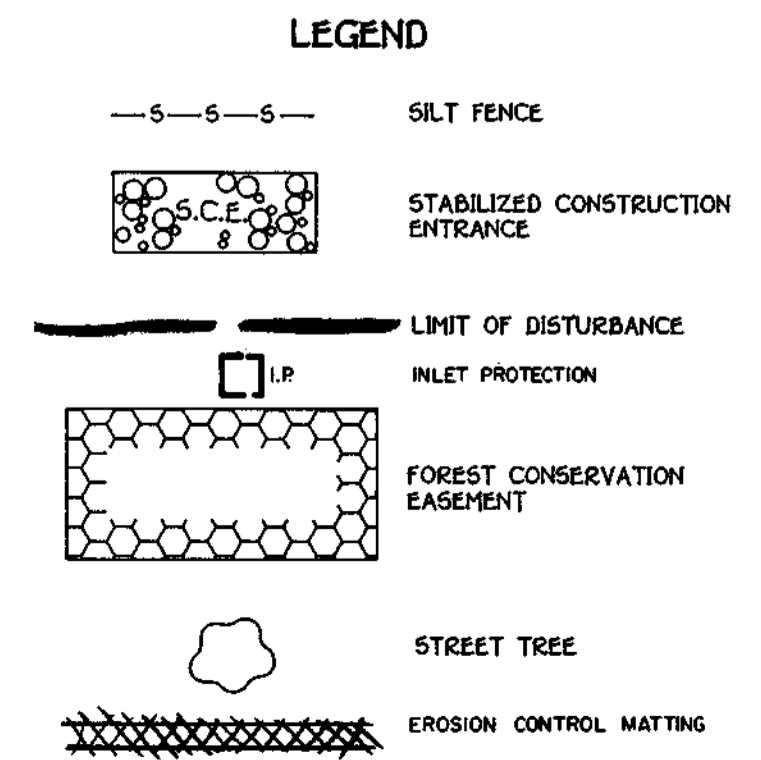
N 608,250  
E 1,228,000

N 608,250  
E 1,228,000

N 607,500  
E 1,228,000



PLAN  
SCALE: 1" = 50'



STREET TREE SCHEDULE			
SYMBOL	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
[Symbol]	PLATANUS OCCIDENTALIS "BLOODGOOD" LONDON PLANETREE	2 1/2-3" CAL.	40' APART ON PUBLIC R/W

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.  
TOTAL NUMBER OF STREET TREES:  
[Symbol] - 12 TREES

**STREET TREE, GRADING AND SEDIMENT CONTROL PLAN**  
**SPRING HOLLOW**  
**LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'**  
(A RESUBDIVISION OF "LAMBERT GREEN", PLAT NO. 10523 - LOT 2, "HARDY GREEN", PLAT NO. 10928 - LOTS 1 THRU 5, "STEVENS DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5, AND "SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)  
ZONED RC-DEO  
TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
DATE: AUGUST 10, 1998  
SHEET 5 OF 13

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 At A 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."  
*Wally Lambert Cissel* 8/20/98  
Signature Of Developer Date

Printed Name Of Developer

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/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."  
*Georell A. Fisher* 8/20/98  
Signature Of Engineer Date  
*Georell A. Fisher*  
Printed Name Of Engineer

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 Scrimm* 2/26/99  
USDA-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.  
*Wally Lambert Cissel* 2/26/99  
Howard Soil Conservation District Date

Approved Department Of Public Works  
*Andrew M. Daniels* 3-5-99  
Chief, Bureau Of Highways Date

Approved Department Of Planning And Zoning  
*Carole Hamilton* 2/15/99  
Chief, Division Of Land Development Date  
*Mark Dammann* 8/10/98  
Chief, Development Engineering Division MK Date

**AS-BUILT CERTIFICATION**  
I Herby Certify That The Facility Shown On This Plan Was Constructed As Shown On The "As-Built" Plans And Meets The Approved Plans And Specifications.  
Signature \_\_\_\_\_ P.E. No. \_\_\_\_\_  
Date \_\_\_\_\_  
Certify Means To State Or Declare A Professional Opinion Based Upon Onsite Inspections And Material Tests Which Are Conducted During Construction. The Onsite Inspections And Material Tests Are Those Inspections And Tests Deemed Sufficient And Appropriate Commonly Accepted Engineering Standards. Certify Does Not Mean Or Imply A Guarantee By The Engineer Nor Does An Engineer's Certification Relieve Any Other Party From Meeting Requirements Imposed By Contract, Employment, Or Other Means, Including Meeting Commonly Accepted Industry Practices.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
410-481-2895

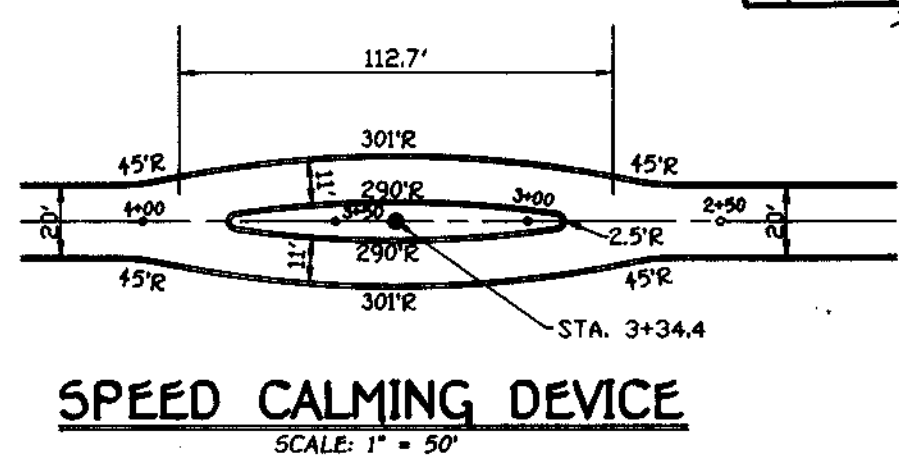
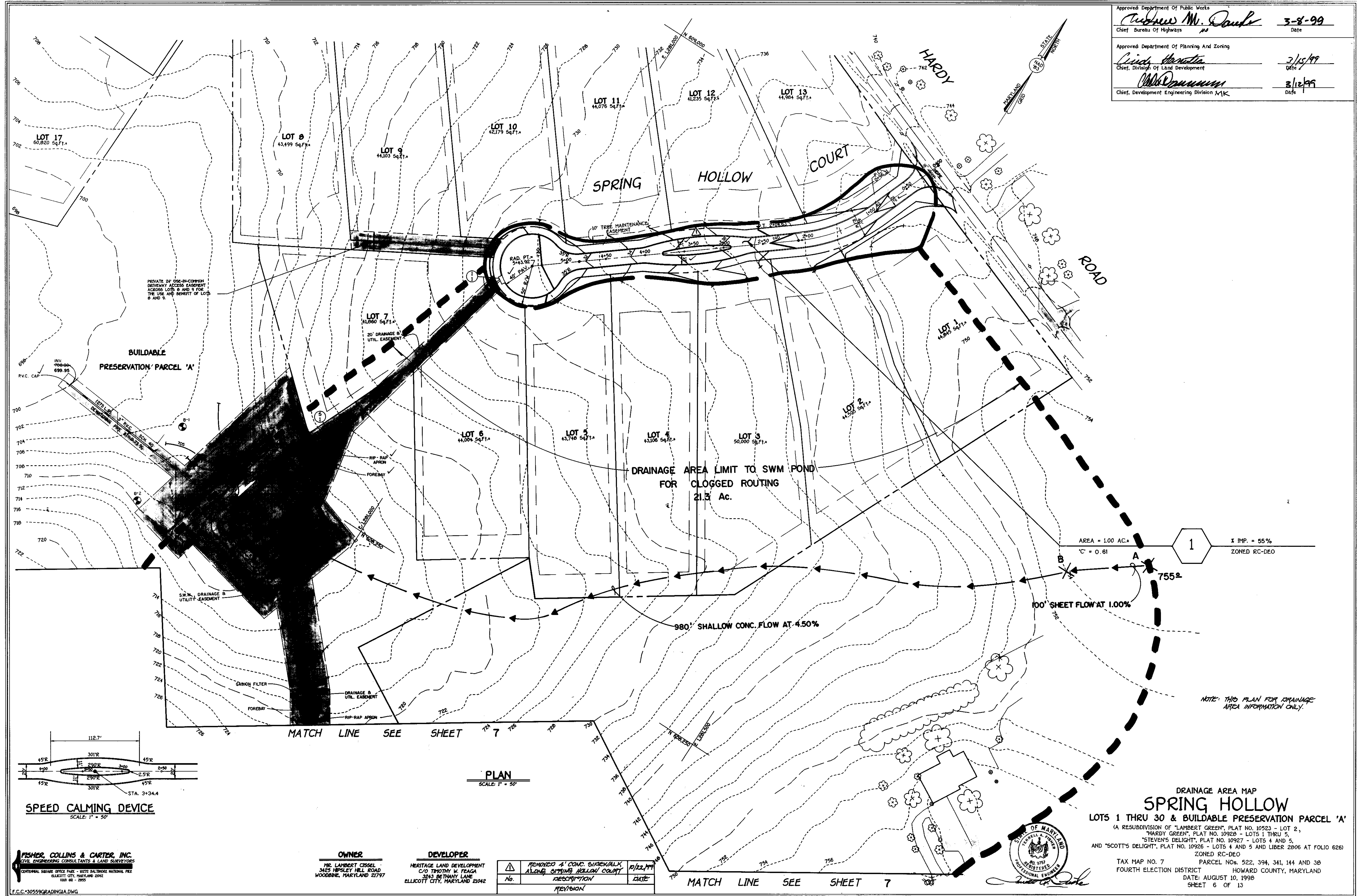
**OWNER**  
MR. LAMBERT CISSEL  
3425 HEPSEY HILL ROAD  
WOODBINE, MARYLAND 21797

**DEVELOPER**  
HERITAGE LAND DEVELOPMENT  
C/O TIMOTHY W. FRAGA  
3243 BETHANY LANE  
ELLCOTT CITY, MARYLAND 21042

Approved: Department of Public Works  
*Robert M. Dault* 3-8-99  
 Chief, Bureau of Highways Date

Approved: Department of Planning and Zoning  
*Chris Hamilton* 3/15/99  
 Chief, Division of Land Development Date

*Mike Dammann* 3/12/99  
 Chief, Development Engineering Division MKK Date

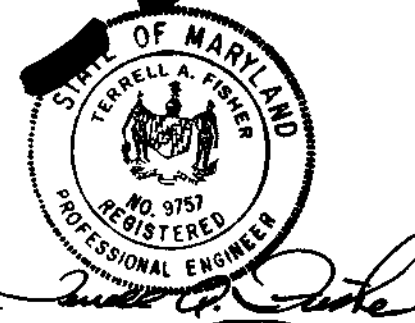


**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE BUILDING - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 481-2955

**OWNER**  
 MR. LAMBERT CISEL  
 3425 HIPSLEY HILL ROAD  
 WOODBINE, MARYLAND 21797

**DEVELOPER**  
 HERITAGE LAND DEVELOPMENT  
 C/O TIMOTHY W. FRAGA  
 3243 BETHANY LANE  
 ELICOTT CITY, MARYLAND 21042

No.	DESCRIPTION	DATE
1	REMOVED 4" CONC. SIDEWALKS ALONG SPRING HOLLOW COURT	3/22/99

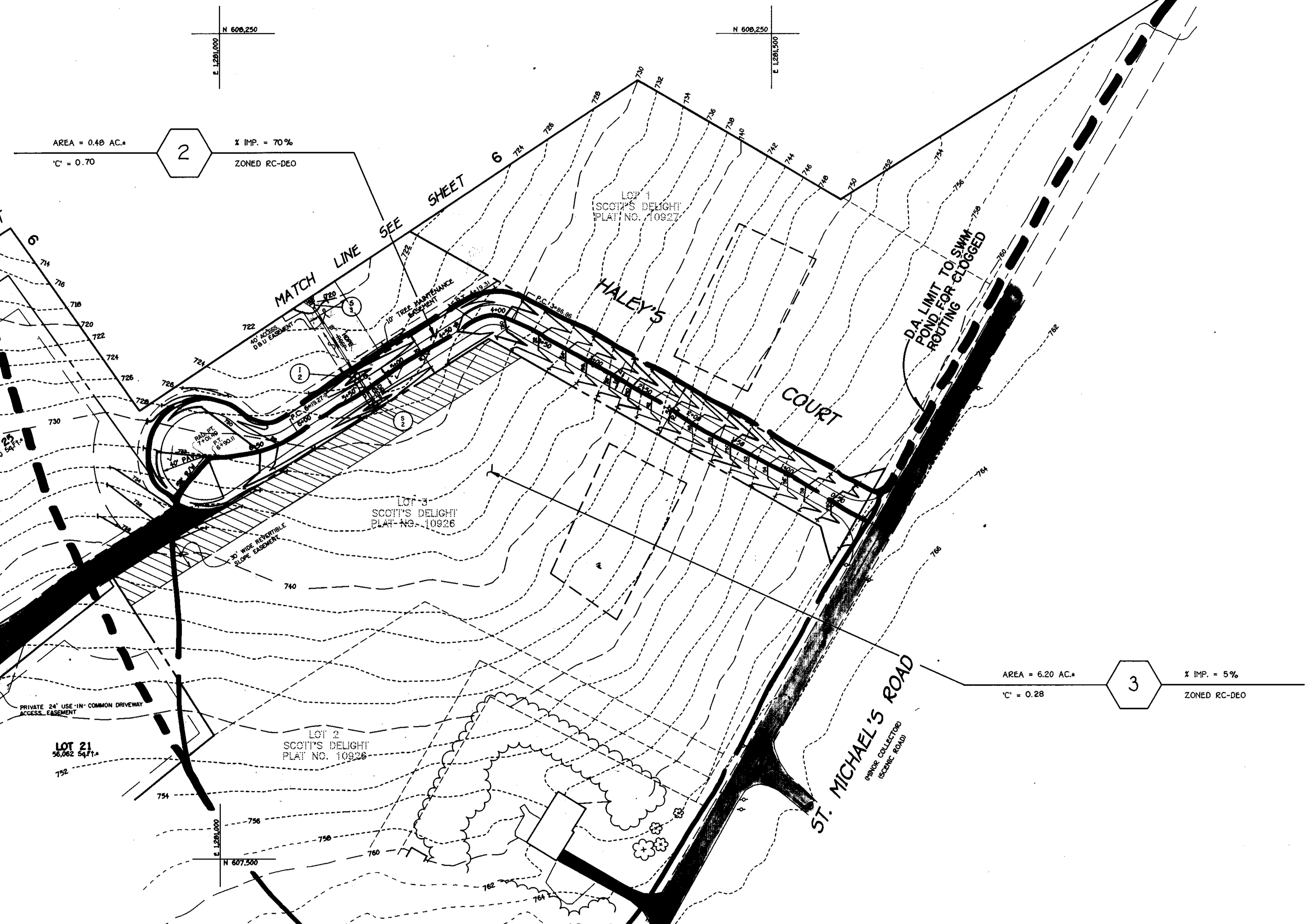


**DRAINAGE AREA MAP**  
**SPRING HOLLOW**  
 LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'  
 (A RESUBDIVISION OF "LAMBERT GREEN", PLAT NO. 10523 - LOT 2, "HARDY GREEN", PLAT NO. 10928 - LOTS 1 THRU 5, "STEVENS DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5, AND "SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)  
 ZONED RC-DEO  
 TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: AUGUST 10, 1998  
 SHEET 6 OF 13



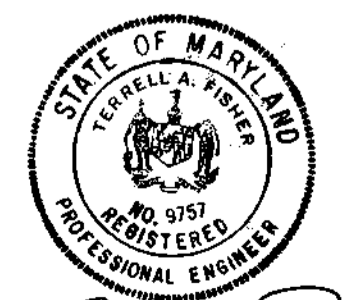
Approved Department Of Public Works  
 Chief Bureau Of Highways *Andrew M. Danks* 3-8-99  
 Date

Approved Department Of Planning And Zoning  
 Chief, Division Of Land Development \_\_\_\_\_ Date  
 Chief, Development Engineering Division *MK* 8/12/99  
 Date



NOTE: THIS PLAN FOR DRAINAGE AREA INFORMATION ONLY.

DRAINAGE AREA MAP  
**SPRING HOLLOW**  
 LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'  
 (A RESUBDIVISION OF "LAMBERT GREEN", PLAT NO. 10523 - LOT 2,  
 "HARDY GREEN", PLAT NO. 10920 - LOTS 1 THRU 5,  
 "STEVENS DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5,  
 AND "SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)  
 ZONED RC-DEO  
 TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: AUGUST 10, 1998  
 SHEET 7 OF 13



**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 1872 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 410-481-8995

**OWNER**  
 MR. LAMBERT CEGSEL  
 3425 HIPSLEY HILL ROAD  
 WOODBINE, MARYLAND 21797

**DEVELOPER**  
 HERITAGE LAND DEVELOPMENT  
 C/O TIMOTHY W. FRAGA  
 3043 BETHANY LANE  
 ELICOTT CITY, MARYLAND 21042





Category	Perimeter Edge																								
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23		
Linear Feet Or Roadway Frontage/Perimeter	550'	410'	223'	193'	196'	250'	280'	282'	522'	742'	198'	250'	160'	521'	789'	764'	350'	1384'	263'	752'	283'	360'	263'		
Credit For Existing Vegetation (Yes, No Linear Feet) (Describe Below If Needed)	YES 308'	NO	NO	NO	NO	NO	NO	NO	YES 250'	YES 522'	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
Credit For Wall, Fence Or Berm (Yes, No Linear Feet) (Describe Below If Needed)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
Number Of Plants Required & Provided																									
Shade Trees	4	10	3	3	3	4	4	0	0	10	4	4	2	0	13	12	5	27	4	12	4	7	5		
Evergreen Trees	--	20	--	--	--	--	--	--	--	37	9	--	--	--	--	--	--	--	--	--	--	9	6		
Shrubs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

SEE NOTE BELOW PERTAINING TO PERIMETERS P19-P21

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
13	(Symbol)	ACER RUBRUM OCTOBER GLORY	OCTOBER GLORY MAPLE	2 1/2"-3"
156	(Symbol)	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2"-3"
97	(Symbol)	PINUS STROBUS	WHITE PINE	6'-8' HT.

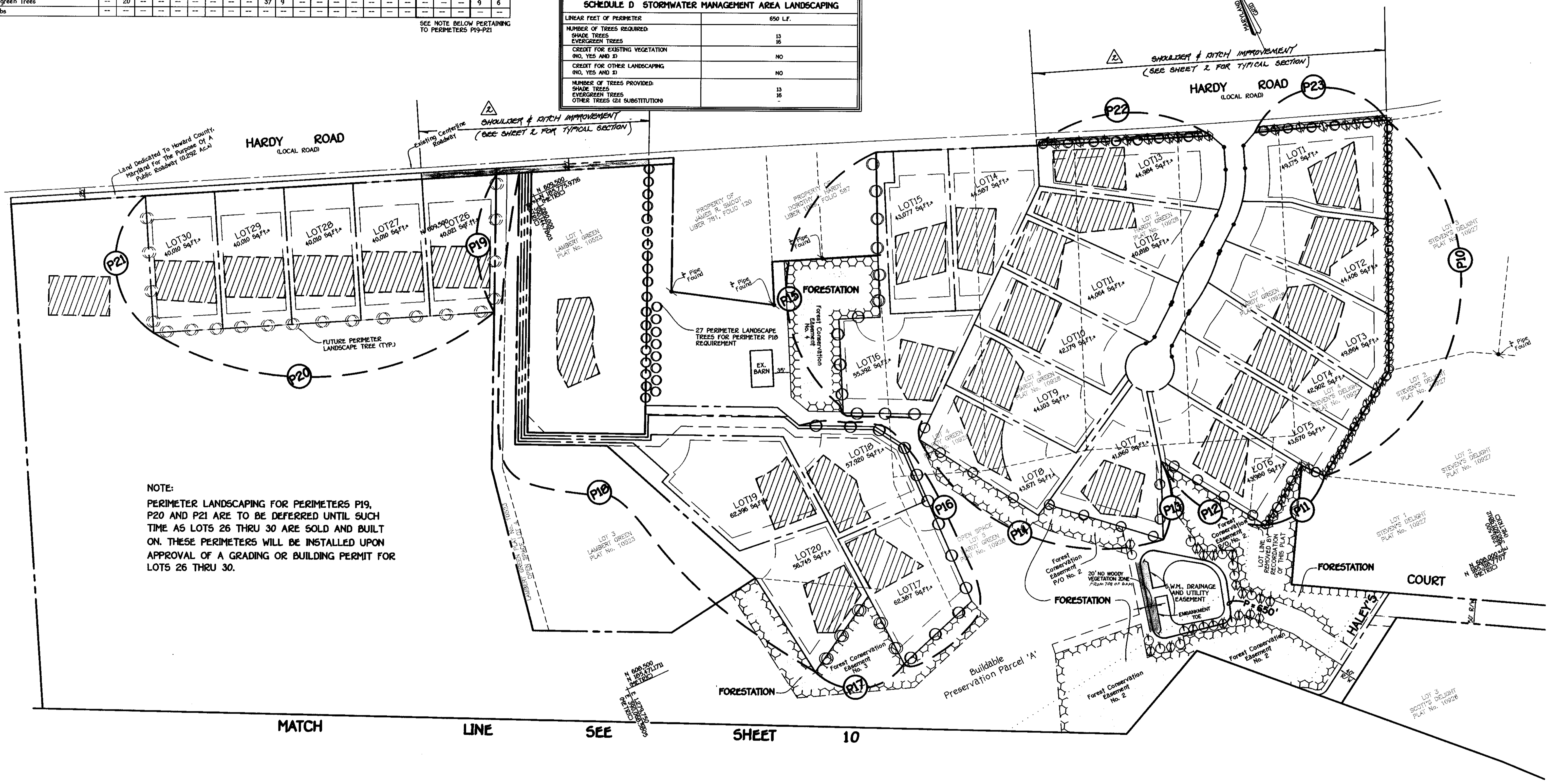
NOTE: THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 266 - 20 (PERIMETERS P19 THRU P21) = 246 LANDSCAPING TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$65,250.00 - \$6,000.00 (PERIMETERS P19 THRU P21) = \$59,250.00.

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING	
LINEAR FEET OF PERIMETER	650 L.F.
NUMBER OF TREES REQUIRED:	
SHADE TREES	13
EVERGREEN TREES	16
CREDIT FOR EXISTING VEGETATION (NO, YES AND 2)	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND 2)	NO
NUMBER OF TREES PROVIDED:	
SHADE TREES	13
EVERGREEN TREES	16
OTHER TREES (2:1 SUBSTITUTION)	

Approved Department of Public Works  
*Andrew M. Duncanson*  
 Chief, Bureau of Highways  
 Date: 3-8-99

Approved Department of Planning And Zoning  
*Chris H. Hester*  
 Chief, Division of Land Development  
 Date: 3/15/99

*Mark Duncanson*  
 Chief, Development Engineering Division  
 Date: 3/6/99



NOTE:  
 PERIMETER LANDSCAPING FOR PERIMETERS P19, P20 AND P21 ARE TO BE DEFERRED UNTIL SUCH TIME AS LOTS 26 THRU 30 ARE SOLD AND BUILT ON. THESE PERIMETERS WILL BE INSTALLED UPON APPROVAL OF A GRADING OR BUILDING PERMIT FOR LOTS 26 THRU 30.

MATCH LINE SEE SHEET 10

DEVELOPER'S / BUILDER'S CERTIFICATE  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.  
 I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANTING MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Willis Lambert Cissel*  
 NAME: \_\_\_\_\_ DATE: 8/20/98

PLAN  
 SCALE: 1" = 100'

No.	REVISION	DATE
1	REVISED LIMITS OF SHOULDER & RITCH IMPROVEMENTS ALONG HARDY RD.	10/22/99

OWNER  
 MR. LAMBERT CISSSEL  
 3425 HIBSEY HILL ROAD  
 WOODBINE, MARYLAND 21797

DEVELOPER  
 HERITAGE LAND DEVELOPMENT  
 C/O TIMOTHY W. FEAGA  
 3243 BETHANY LANE  
 ELLICOTT CITY, MARYLAND 21042



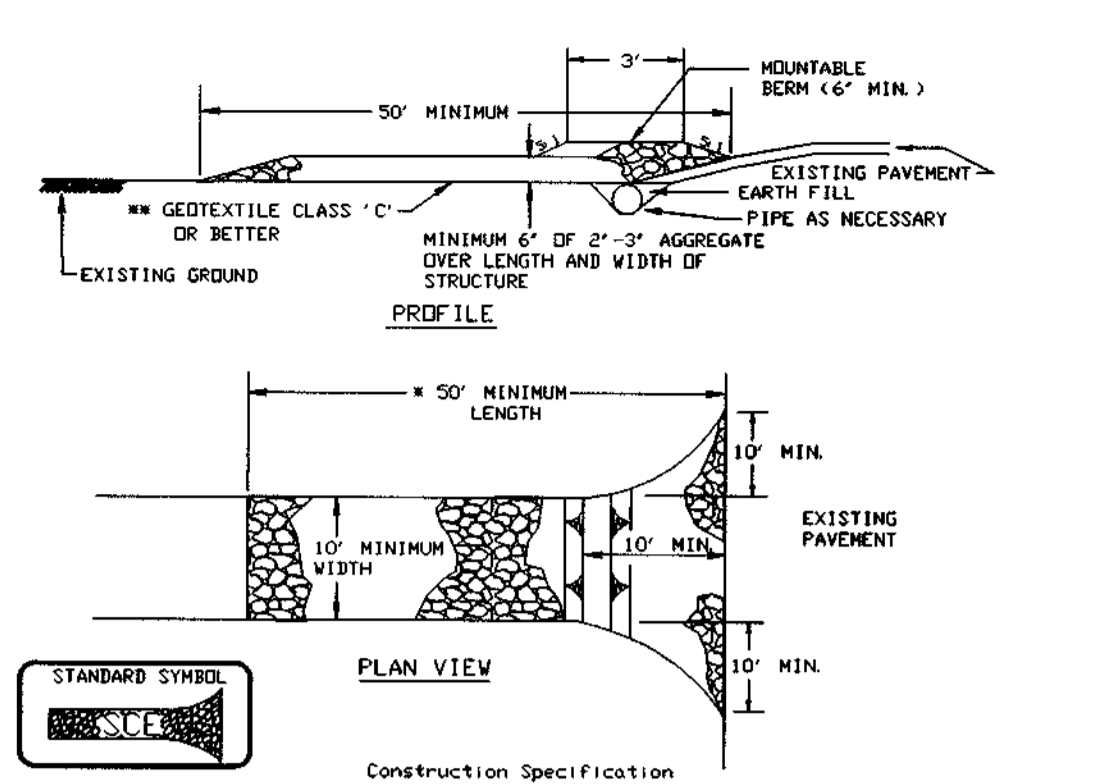
LANDSCAPE PLAN  
**SPRING HOLLOW**  
 LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'  
 (A RESUBDIVISION OF "LAMBERT GREEN", PLAT NO. 10523 - LOT 2, "HARDY GREEN", PLAT NO. 10928 - LOTS 1 THRU 5, "STEVEN'S DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5, "SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)  
 ZONED RC-DEO  
 TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: NOVEMBER 18, 1998  
 SHEET 9 OF 13

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 410-461-2055  
 F.C.C.-30255LANDSCAPEPLAN



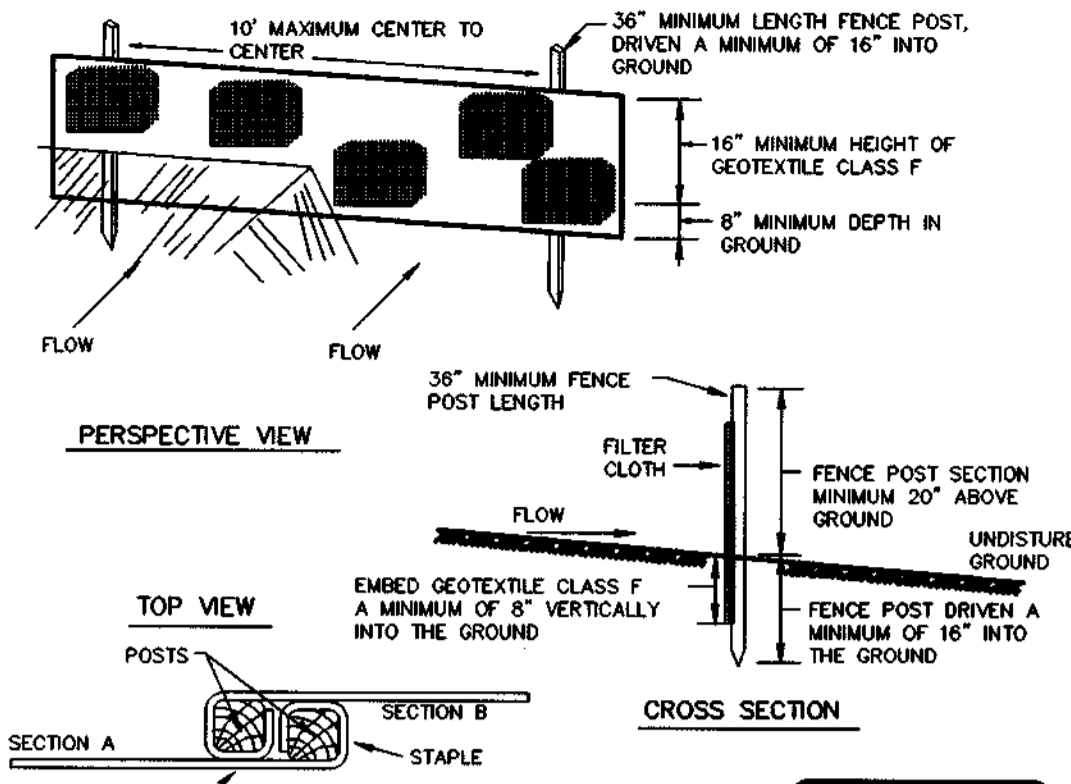






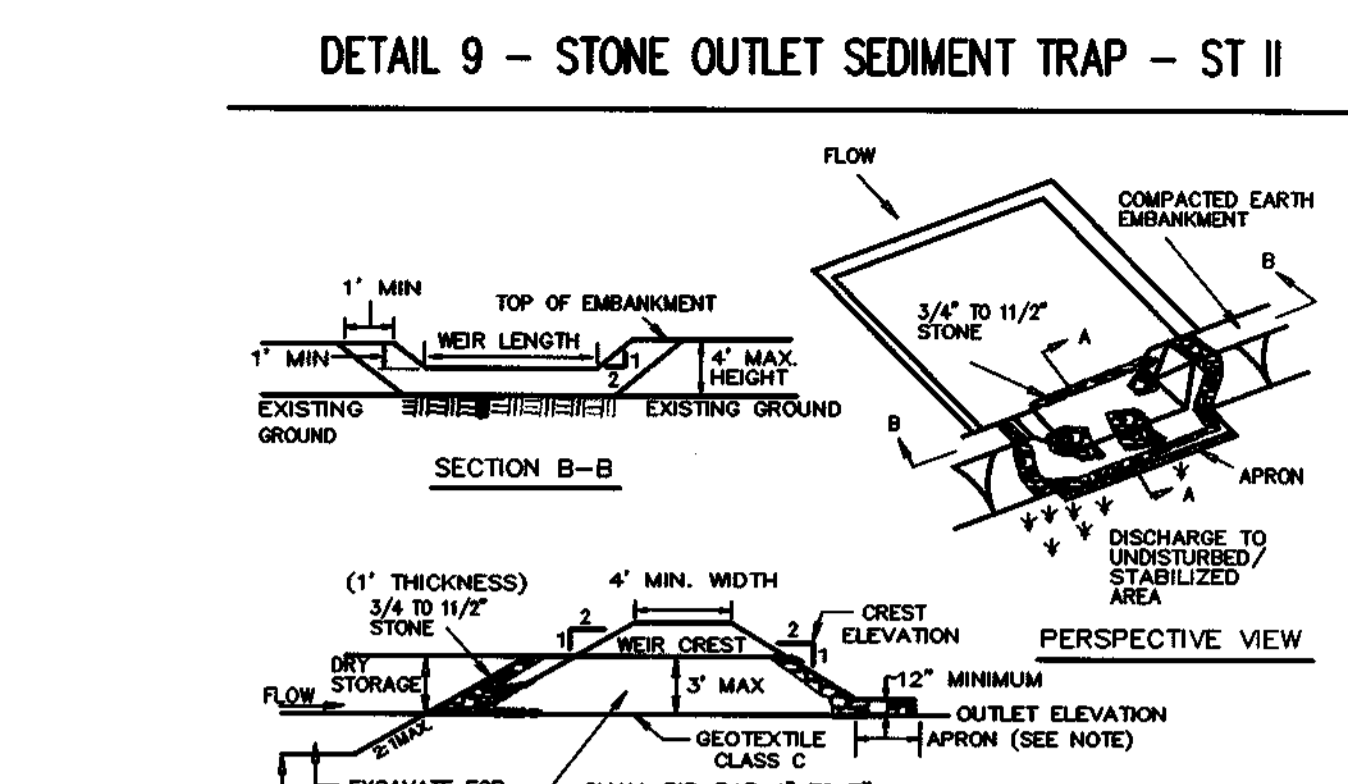
**STABILIZED CONSTRUCTION ENTRANCE - 2**  
NOT TO SCALE

1. Length - minimum of 50' (#30 for single residence lot).  
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.  
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.  
4. Stone - crushed aggregate (#2 to #3) or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.  
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.  
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.



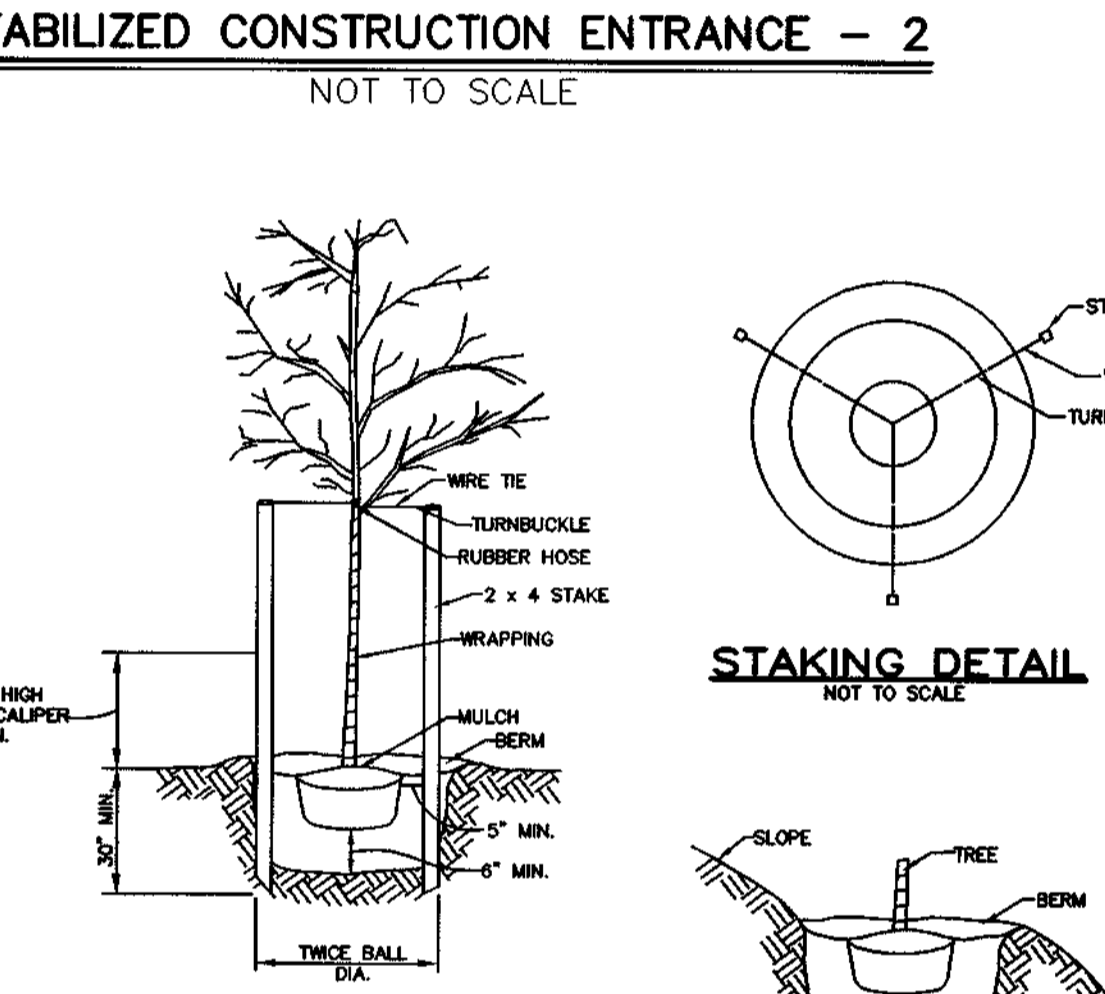
**DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II**

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.  
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.  
3. All cut and fill slopes shall be 2:1 or flatter.  
4. The stone used in the outlet shall be small rip-rap 4" to 7" in size with a 1" thick layer of 3/4" to 1 1/2" washed aggregate placed on the upstream face of the outlet. Stone facing shall be as necessary to prevent clogging. Geotextile Class C may be substituted for the stone facing by placing it on the inside face of the stone outlet.  
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to one half of the wet storage depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.  
6. The structure shall be inspected periodically and after each rain and repairs made as needed.  
7. Construction of traps shall be carried out in such a manner that sediment pollution is abated. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentration inflow shall be protected in accordance with Grade Stabilization Structure criteria. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon trap completion and monitored and maintained erosion free during the life of the trap.  
8. The structure shall be dewatered by approved methods, removed and the area stabilized when the drainage area has been properly stabilized.  
9. Refer to Section D for specifications concerning trap dewatering.  
10. Minimum trap depth shall be measured from the wet elevation.  
11. The elevation of the top of any dike directing water into the trap must equal or exceed the elevation of the trap embankment.  
12. Geotextile Class C shall be placed over the bottom and sides of the outlet channel prior to the placement of stone. Sections of filter cloth must overlap at least 1' with the section nearest the entrance placed on top. The filter cloth shall be embedded at least 6" into existing ground at the entrance of the outlet channel.  
13. Outlet - An outlet shall be provided, including a means of conveying the discharge in an erosion free manner to an existing stable channel.



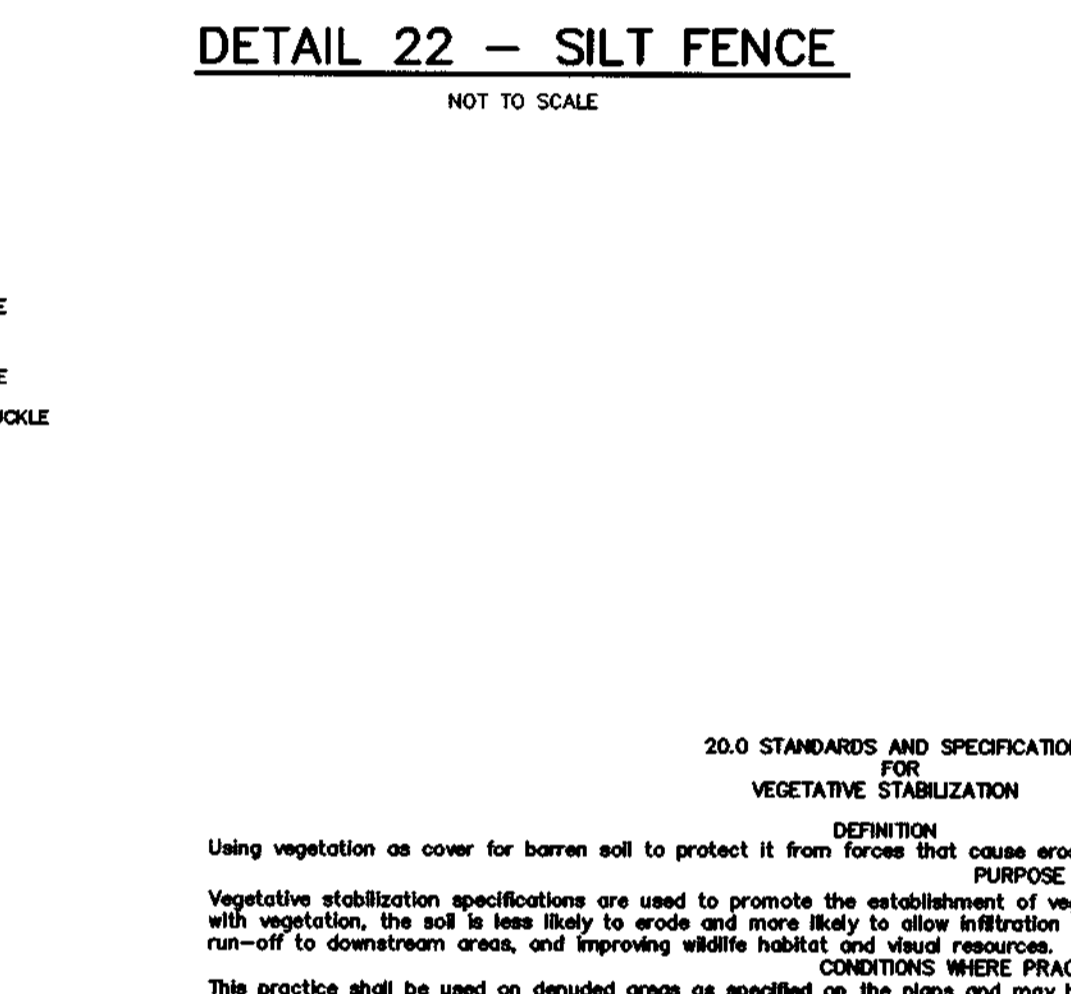
**STANDARD INLET PROTECTION**

1. Excavate completely around the inlet to a depth of 18" below the notch elevation.  
2. Drive the 2' x 4" construction grade lumber posts 1' into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2' x 4" frame using the overlap joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roadway where flooding and safety issues may arise.  
3. Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.  
4. Stretch the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.  
5. Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.  
6. If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.  
7. The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.



**TREE PLANTING**  
NOT TO SCALE

NOTE: REMOVE BURRLAP FROM TOP 1/3 OF BALL



**DETAIL 22 - SILT FENCE**  
NOT TO SCALE

20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

**DEFINITION**  
Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

**CONDITIONS WHERE PRACTICE APPLIES**  
This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (0 to 1 year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stabilization, cleared areas being left idle before construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dunes, cut and fill slopes and other areas of final grade, former stockpiles and staging areas, etc.

**EFFECTS ON WATER QUALITY AND QUANTITY**  
Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Sediment control devices must remain in place during grading, seedbed preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

**SEED SPECIFICATIONS**

I. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to inspection by a responsible official of the Department of Agriculture. All seed shall be immediately packaged in the date of sowing such material on the job.

II. Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared by a responsible official of the Department of Agriculture. Use four times the recommended rate when hydroseeding. Inoculant is very important to keep inoculant as cool as possible until used. Temperatures above 75-80°F can weaken bacteria and make the inoculant less effective.

III. Method of Seeding

A. Hydroseeding - Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded.

1. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen: maximum of 100 lbs. per acre total of soluble nitrogen; 200 (phosphorous) 200 (potassium) 200 (potassium).

2. Lime - use only ground agricultural limestone. (Up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons per acre of hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

3. Sand and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.

B. Dry Seeding - This includes use of conventional drop or broadcast seeders.

1. Seed spread dry shall be incorporated into the soil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 205 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.

2. Where practical, seed should be applied in two directions perpendicular to each other, applying the seeding rate in each direction.

C. Drill or Outdragger Seeding - Mechanized seeders that apply and cover seed with soil.

1. Outdragger seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.

2. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

D. Mulch Specifications (in order of preference)

1. Straw mulch consisting of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be rusty, moldy, oiled, soiled, or excessively dry and shall be free of noxious weed seeds as specified in the Maryland Seed Law.

2. Wood Cellulose Fiber Mulch (WCFM)

a. WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.

b. WCFM shall be dry and contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.

c. WCFM including dye shall contain no germination or growth inhibiting factors.

d. WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other materials to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and retention properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.

e. WCFM material shall contain no elements or compounds of concentration levels that will be phytotoxic.

f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.0% maximum and water holding capacity of 90% minimum.

g. Note: Only sterile straw mulch should be used in areas where species of grass is desired.

3. Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.

I. If grading is required to smooth the surface, mulch along shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.

II. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch spreading tool is to be used, the rate should be increased to 2.5 tons/acre.

III. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.

H. Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference, depending upon size of area and erosion hazard):

1. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil. The tool consists of two (2) inch diameter steel rods (12) inches long. The rods are spaced 12 inches apart and are limited to flatter slopes where equipment can operate safely. If used on sloping areas, the rods should be placed at a 45 degree angle to the slope.

2. Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a rate of 100 lbs. per 100 gallons of water. The fiber binder shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

III. Application of liquid binders should be heavier at the edges where wind catches mulch, such as in narrow or crevice areas. The remainder of area should be applied uniformly after binder application. Synthetic binders - such as Acrylic (Acrilan), DOW-TG (Trelon), Terra Tex or Terra Lock AK or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.

IV. Lightweight plastic netting may be applied over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.

**SEDIMENT CONTROL NOTES**

1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).

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 MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

3) OFFSITE WASTE/BORROW AREA LOCATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERMITS, SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4) ALL SEDIMENT TRAPS/BASINS 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOO (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

7) SITE ANALYSIS:

TOTAL AREA OF SITE	119.37 ACRES
AREA DISTURBED	4.20 ACRES
AREA TO BE ROOFED OR PAVED	1.00 ACRES
AREA TO BE VEGETATIVELY STABILIZED	3.20 ACRES
TOTAL CUT	8,000 CU.YDS.
TOTAL FILL	8,000 CU.YDS.

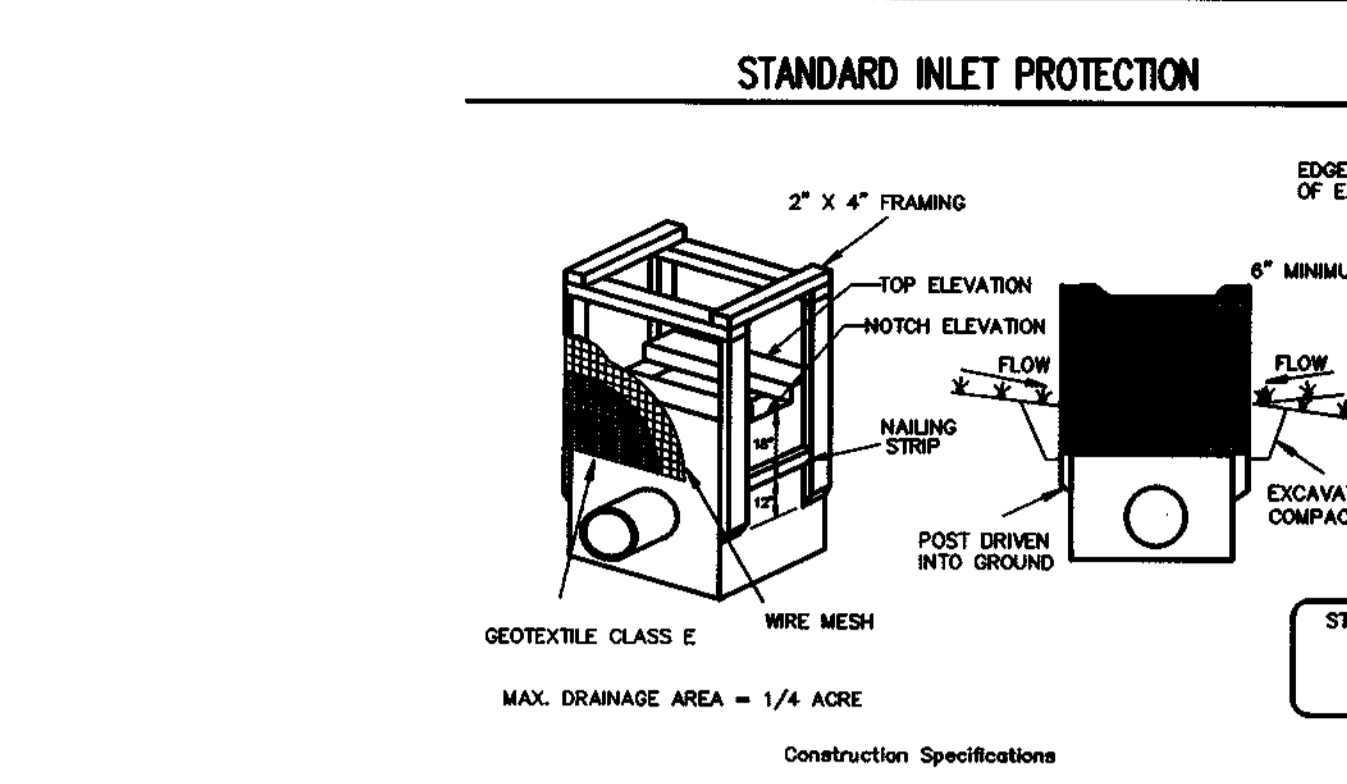
8) ANY WASTE/BORROW AREA LOCATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERMITS, SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

9) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

10) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

11) 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.

12) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



**SUPER SILT FENCE**

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

6. Maintenance shall be performed as needed and all silt dikes removed when "bulges" develop in the silt fence, or when it reaches 50% of fence height.

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft /minute (max.)	Test: MSMT 522
Filtering Efficiency	75% (min.)	Test: MSMT 522

**Incremental Stabilization - Out Slopes**

I. All out slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.

II. Construction sequence (Refer to Figure 3 below):

a. Excavate and stabilize temporary access, side ditches, or berms that will be used to convey runoff from the excavation.

b. Perform Phase 1 excavation, dress and stabilize.

c. Perform Phase 2 excavation, dress and stabilize. Overseed previously seeded areas as necessary.

d. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

NOTE: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completion of the operation will necessitate the application of temporary stabilization.

J. Incremental Stabilization of Embankments - Fill Slopes

I. Embankments shall be constructed in lifts as prescribed on the plans.

II. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15' or when the grading operation ceases as prescribed in the plans.

III. At the end of each lift, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erodible manner to an existing stable channel.

IV. Construction sequence: Refer to Figure 4 (below).

a. Excavate and stabilize temporary access, side ditches, or berms that will be used to divert runoff around the fill. Construct slope all fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address the area.

b. Perform Phase 1 embankment, dress and stabilize.

c. Perform Phase 2 embankment, dress and stabilize. Overseed previously seeded areas as necessary.

d. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

NOTE: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completion of the operation will necessitate the application of temporary stabilization.

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT ANY RESPONSIBLE PERSONNEL 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 COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Wally Lambert Cissele 8/26/98  
SIGNATURE OF DEVELOPER DATE

**ENGINEER'S CERTIFICATE**

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

Joseph P. Dunham 8-23-99  
SIGNATURE OF ENGINEER DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl Spurr 8/5 2/26/99  
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Joseph P. Dunham 2/26/99  
HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Joseph P. Dunham 3/14/99  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Joseph P. Dunham 3/14/99  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Dancik 3-8-99  
CHIEF, BUREAU OF HIGHWAYS DATE

**Incremental Stabilization - Fill Slopes**

I. All out slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.

II. Construction sequence (Refer to Figure 3 below):

a. Excavate and stabilize temporary access, side ditches, or berms that will be used to convey runoff from the excavation.

b. Perform Phase 1 excavation, dress and stabilize.

c. Perform Phase 2 excavation, dress and stabilize. Overseed previously seeded areas as necessary.

d. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

NOTE: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completion of the operation will necessitate the application of temporary stabilization.

J. Incremental Stabilization of Embankments - Fill Slopes

I. Embankments shall be constructed in lifts as prescribed on the plans.

II. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15' or when the grading operation ceases as prescribed in the plans.

III. At the end of each lift, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erodible manner to an existing stable channel.

IV. Construction sequence: Refer to Figure 4 (below).

a. Excavate and stabilize temporary access, side ditches, or berms that will be used to divert runoff around the fill. Construct slope all fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address the area.

b. Perform Phase 1 embankment, dress and stabilize.

c. Perform Phase 2 embankment, dress and stabilize. Overseed previously seeded areas as necessary.

d. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

NOTE: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completion of the operation will necessitate the application of temporary stabilization.

**SEDIMENT CONTROL NOTES AND DETAILS**

**SPRING HOLLOW**

LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'  
(A RESUBDIVISION OF "LAMBERT GREEN", PLAT NO. 10523 - LOT 2, "HARDY GREEN", PLAT NO. 10928 - LOTS 1 THRU 5, "STEVEN'S DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5, "SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)

ZONED RC-DEO

TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
DATE: AUGUST 10, 1998  
SHEET 11 OF 13

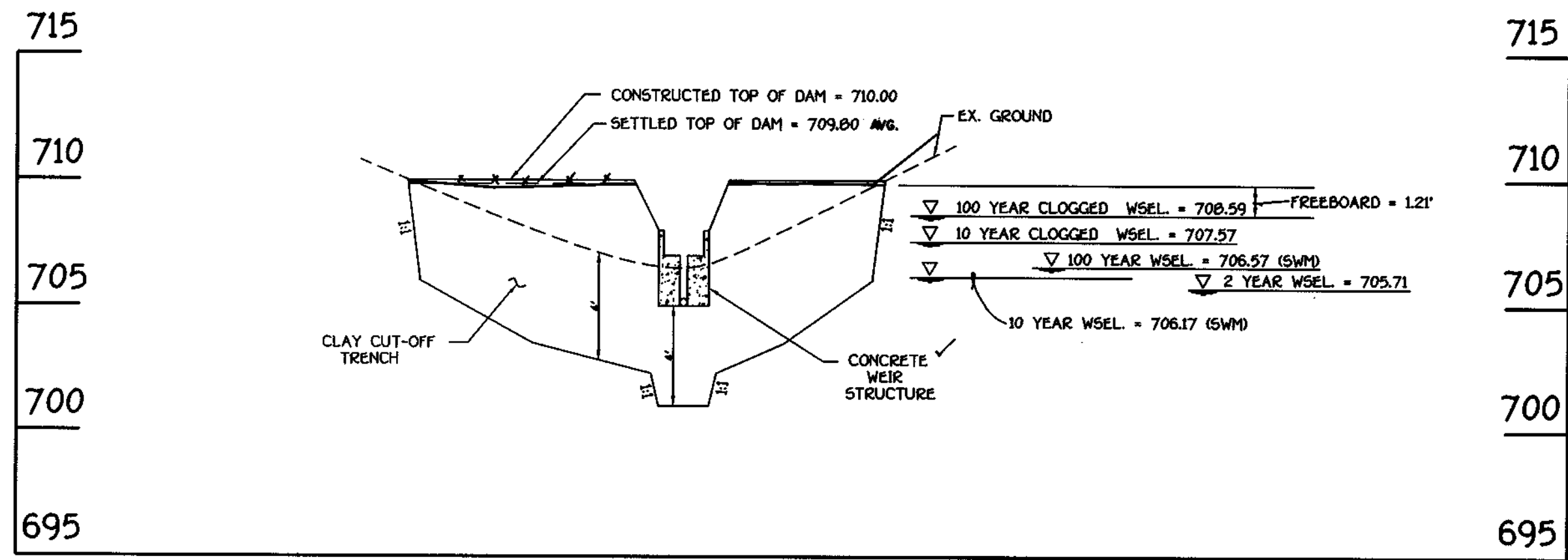
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
FEDERAL SQUARE OFFICE PARK - 10777 BALTIMORE NATIONAL PARK  
ELKTON CITY, MARYLAND 21042  
(410) 461-2855

**OWNER**  
MR. LAMBERT CISSEL  
3425 HIPSLEY HILL ROAD  
VDDIBINE, MARYLAND 21797

**DEVELOPER**  
HERITAGE LAND DEVELOPMENT  
C/O TIMOTHY W. FEAGA  
2643 BETHANY LANE  
ELLICOTT CITY, MARYLAND 21042

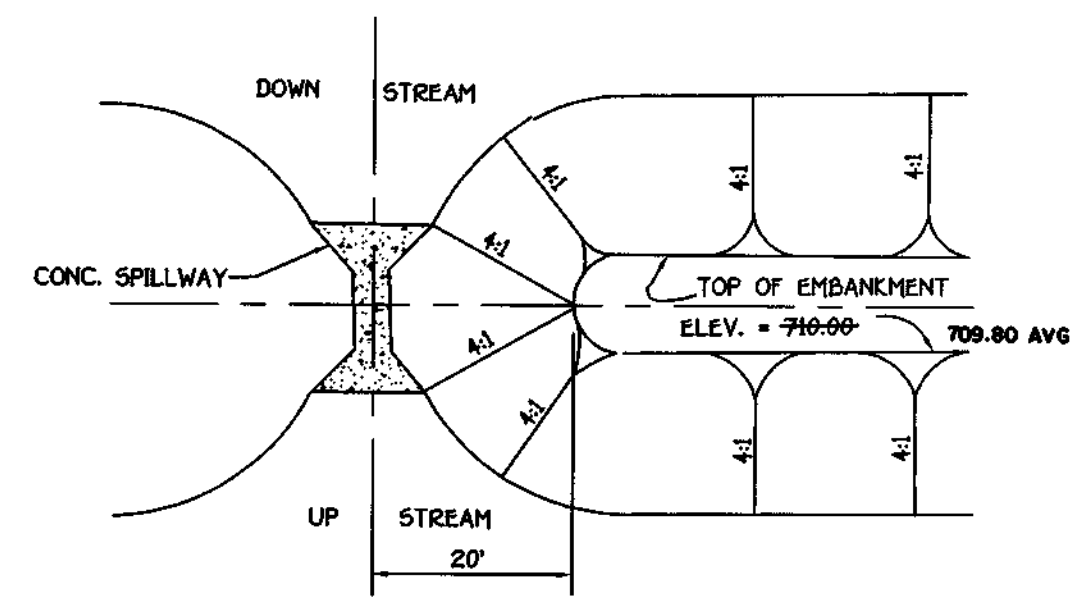
**STATE OF MARYLAND**  
PROFESSIONAL ENGINEER





PROFILE THRU C OF DAM

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



EARTH TRANSITION DETAIL  
NOT TO SCALE

OPERATION AND MAINTENANCE SCHEDULE  
OF HOME OWNERS ASSOCIATION OWNED AND MAINTAINED  
STORMWATER MANAGEMENT FACILITY  
WET POND

HOME OWNERS ASSOCIATIONS MAINTENANCE RESPONSIBILITIES:

1. 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 and maintenance access should be mowed as needed.
2. Debris and litter next to the outlet structure shall be removed during regular mowing operations and as needed.
3. When deemed necessary for aesthetic reasons, sediment should be removed from the pond. Approval of the Department of Public Works is required.

OPERATION AND MAINTENANCE SPECIFICATIONS

I hereby certify that I will operate and maintain the completed pond in accordance with the following:

1) Periodic inspections of the facility will be made to identify potential problems that may affect its safety. These inspections will be made after periods of heavy rainfall and at least twice annually. Inspection reports shall be kept until the next subsequent inspection. Inspection items to be looked at include:

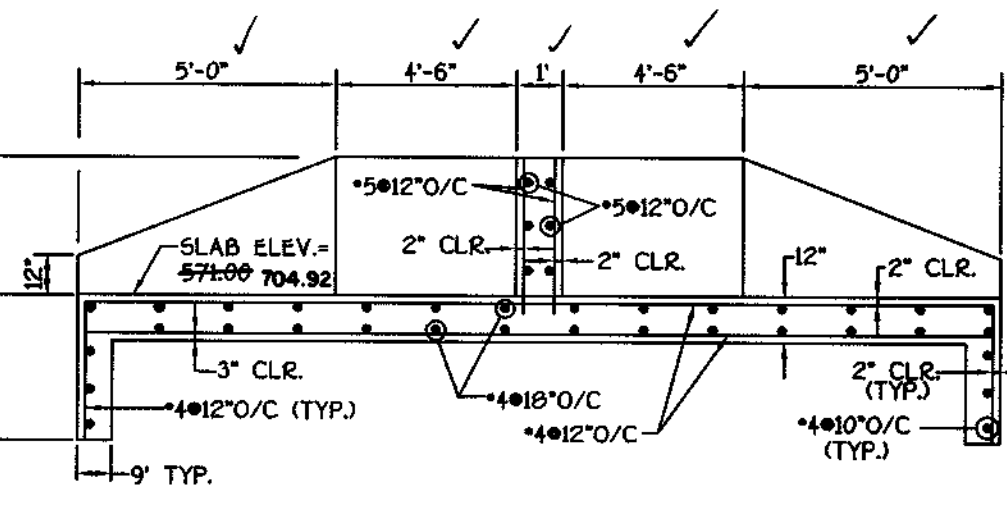
- A. Spillway and outlet works
- B. Rip-rap
- C. Vegetative cover
- D. Cracks in the fill
- E. Slope failures and
- F. Seepage and other signs of distress.

2) Problems identified during inspections will be promptly corrected. Major problems will be brought to the attention of the soil conservation district and the dam safety division of the Maryland Water Resources Administration. As a very minimum, grassy vegetation will be maintained in a dense and healthy state, and wood vegetation will not be permitted to grow on the embankment.

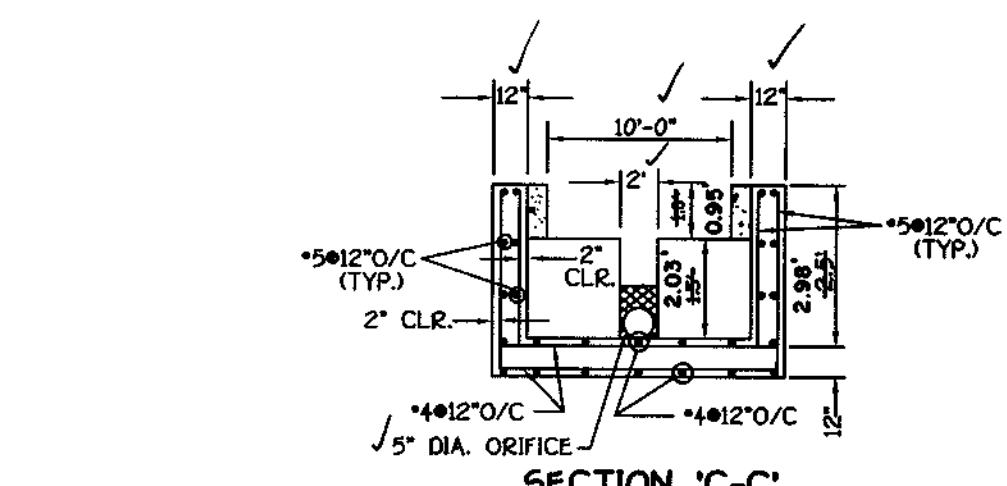
NOTES

1. Concrete shall conform to the Maryland D.O.T.S.H.A. Standard Spec's for construction and materials, 1982 Mix No. 6, except that Type III Cement and A.S.T.M. C 33 No. 8 coarse AGG. shall be used.

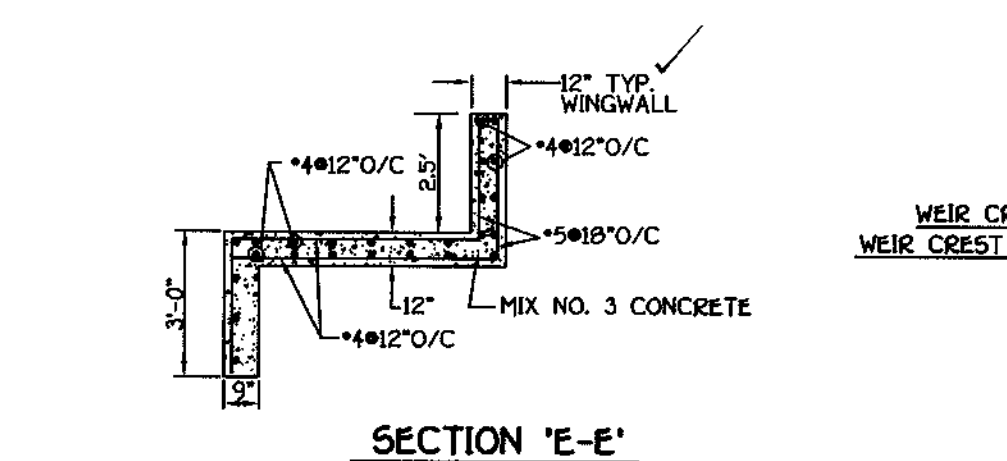
By The Developer:	
I/We Certify That All Development And/Or Construction Will Be Done According To These Plans. And That Any Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of The Environment Approved Training Program For The Control Of 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.	
<i>Willy Jambal Caselle</i>	8/20/98
Signature Of Developer	Date
Printed Name Of Developer	
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/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.	
<i>Joseph Pennabali</i>	2-3-99
Signature Of Engineer	Date
Printed Name Of Engineer	
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.	
<i>Cheryl Strawn / G.S.</i>	2/24/99
USDA-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.	
<i>Jeffrey S. ...</i>	2/24/99
Howard Soil Conservation District	Date
Approved Department Of Public Works	
<i>Andrew M. ...</i>	3-8-99
Chief, Bureau Of Highways	Date
Approved Department Of Planning And Zoning	
<i>... ..</i>	3/15/99
Chief, Division Of Land Development	Date
<i>... ..</i>	3/12/99
Chief, Development Engineering Division	Date



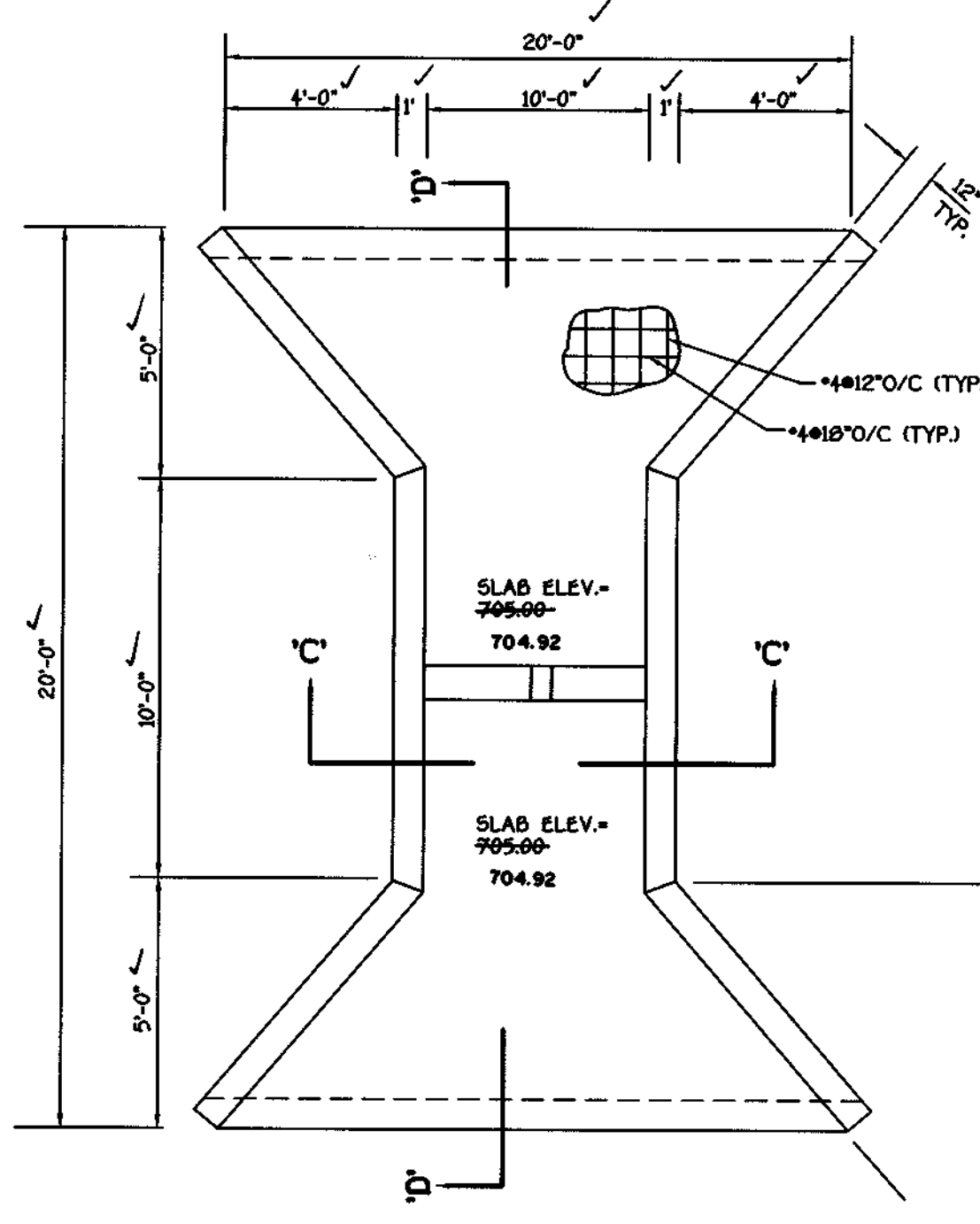
SECTION 'D-D'



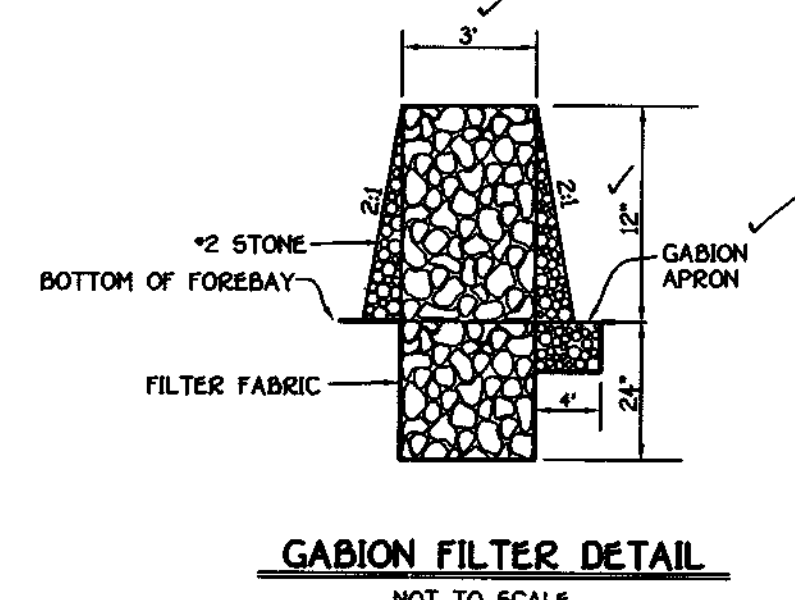
SECTION 'C-C'



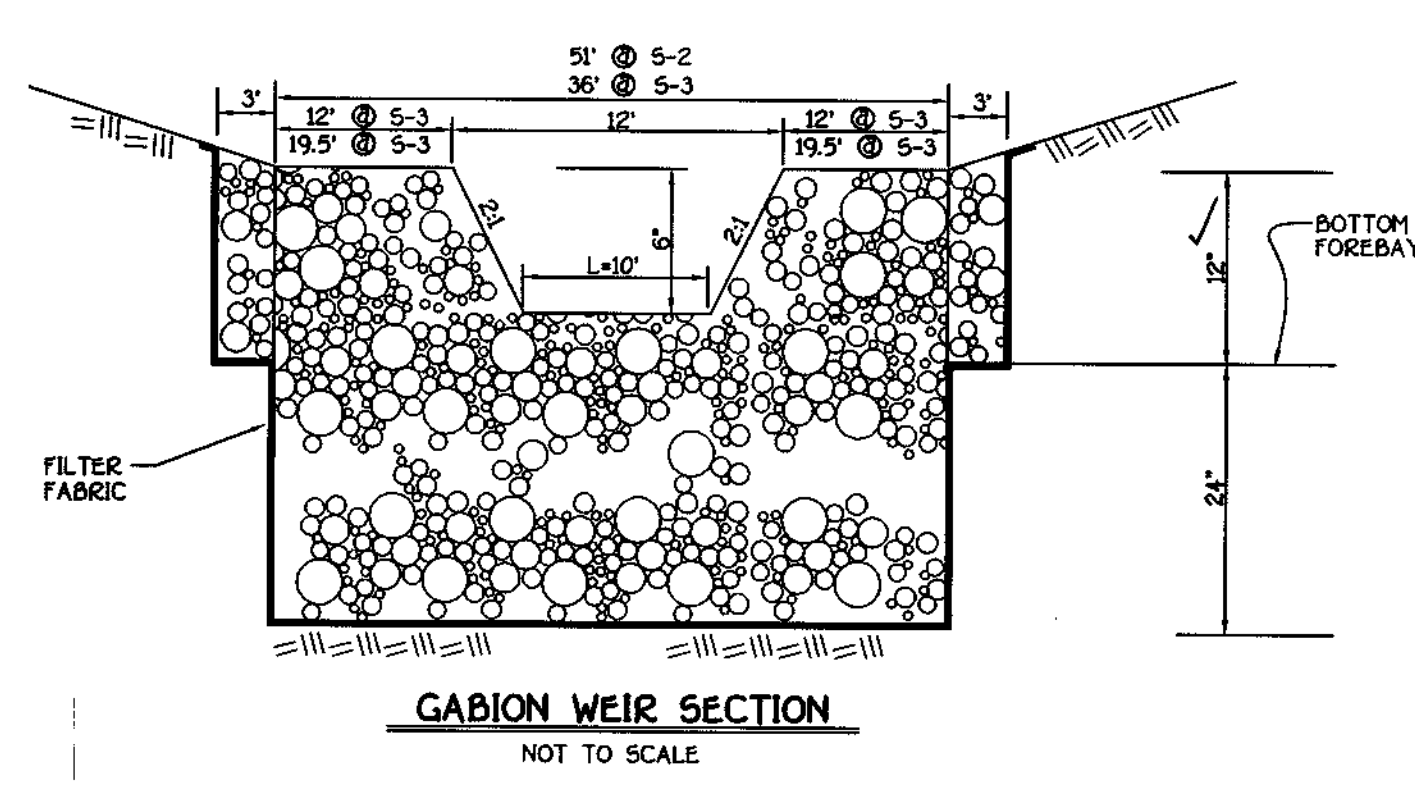
SECTION 'E-E'



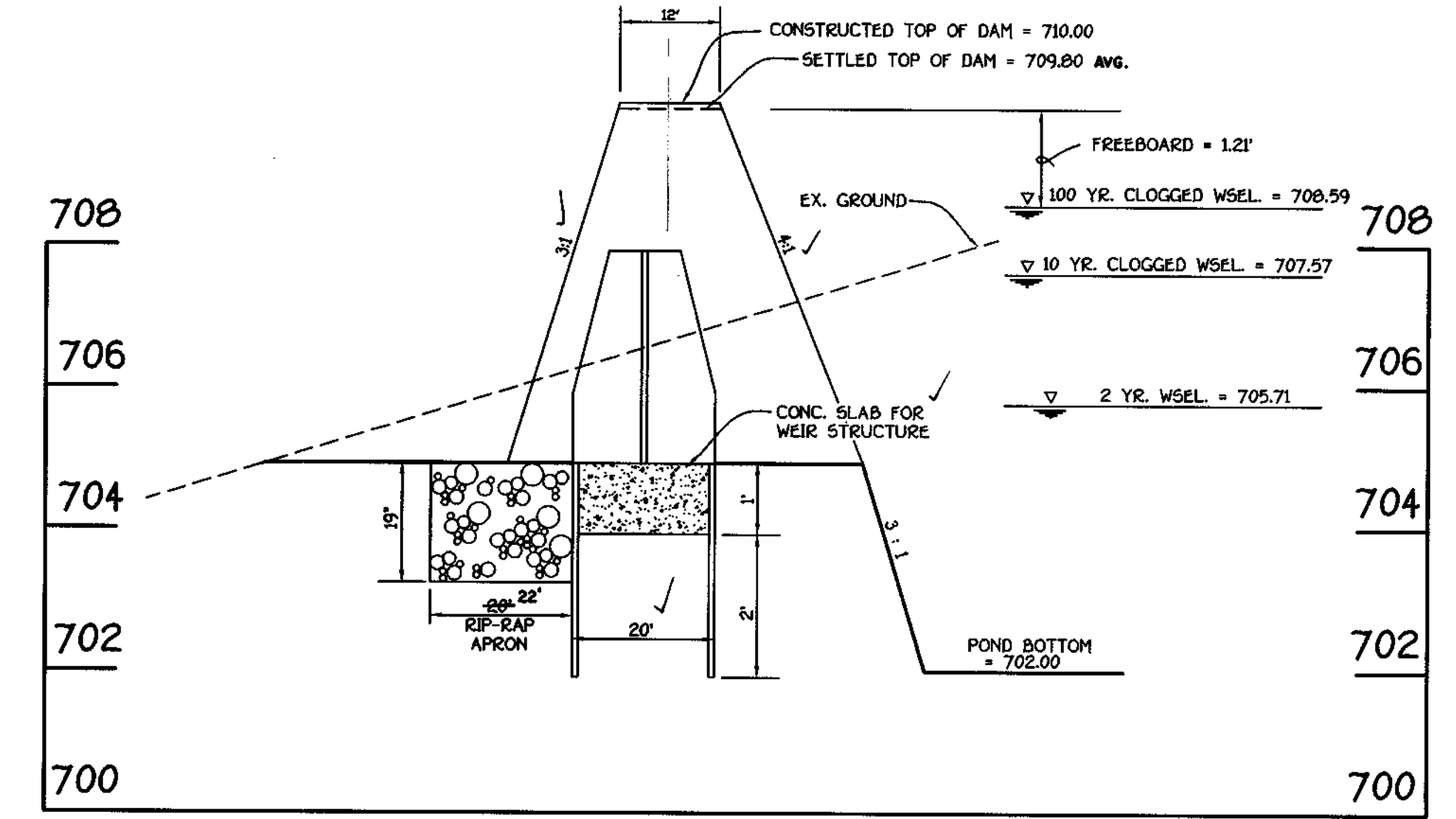
PLAN



GABION FILTER DETAIL  
NOT TO SCALE

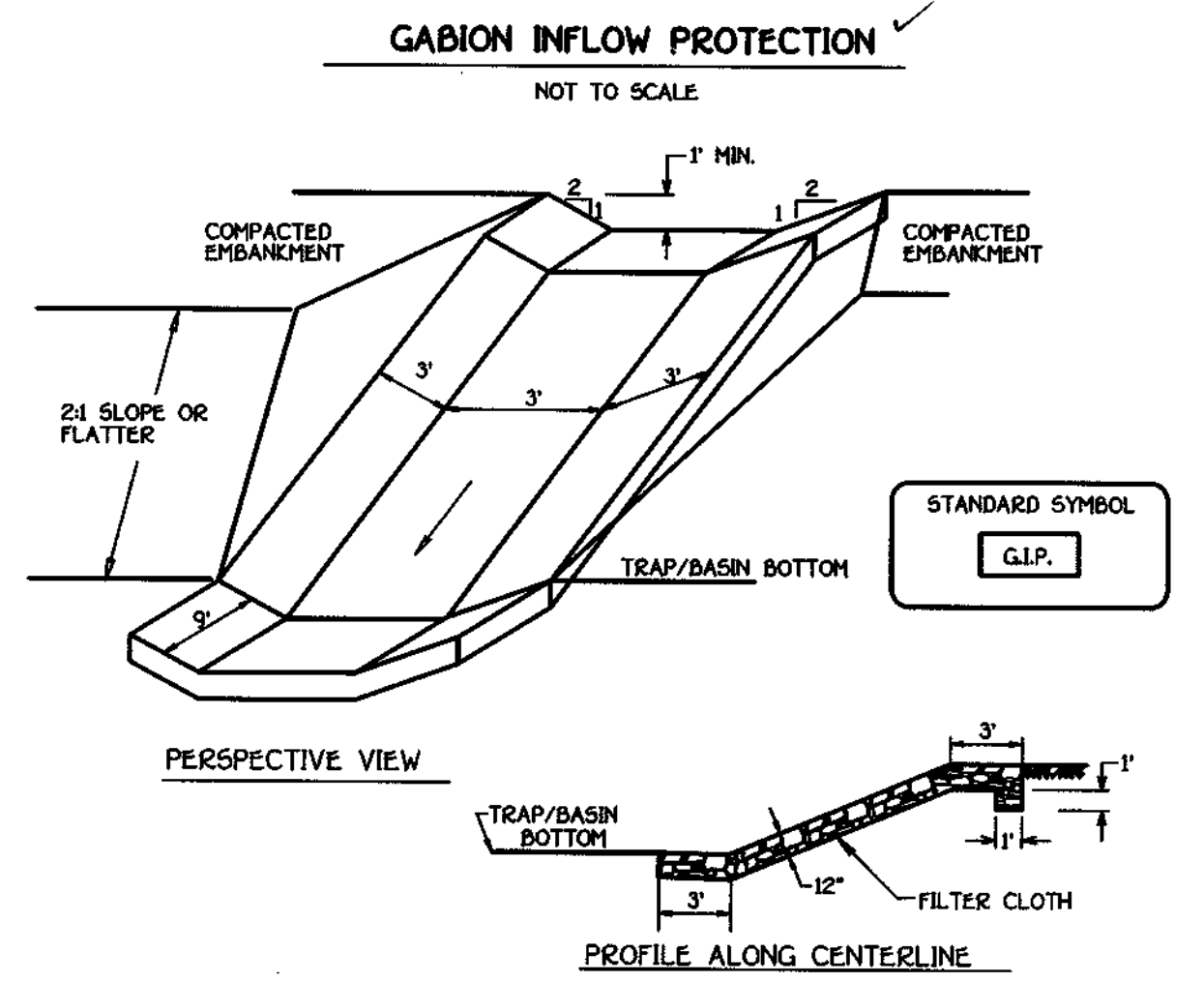


GABION WEIR SECTION  
NOT TO SCALE



SECTION THRU CONCRETE WEIR

SCALE: HORIZ. : 1" = 20'  
VERT. : 1" = 2'



GABION INFLOW PROTECTION

PERSPECTIVE VIEW

PROFILE ALONG CENTERLINE

- Construction Specifications
1. Gabion inflow protection shall be constructed of 9' x 3' x 9' gabion baskets forming a trapezoidal cross section 1' deep, with 2:1 side slopes, and a 3' bottom width.
  2. Geotextile Class C shall be installed under all gabion baskets.
  3. The stone used to fill the gabion baskets shall be 4" - 7".
  4. Gabions shall be installed in accordance with manufacturers recommendations.
  5. Gabion Inflow Protection shall be used where concentrated flow is present on slopes steeper than 4:1.

STORMWATER MANAGEMENT NOTES AND DETAILS  
**SPRING HOLLOW**  
LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'  
(A RESUBDIVISION OF "LAMBERT GREEN", PLAT NO. 10523 - LOT 2,  
"HARDY GREEN", PLAT NO. 10928 - LOTS 1 THRU 5,  
"STEVEN'S DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5,  
"SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626)  
ZONED RC-DEO  
TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
DATE: NOVEMBER 18, 1998  
SHEET 12 OF 13



FISHER, COLLINS & CARTEE, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 1872 BALTIMORE NATIONAL PKY  
ELICOTT CITY, MARYLAND 21042  
410-481-2853

OWNER  
MR. LAMBERT CISELL  
3425 HIPSLEY HILL ROAD  
WOODBINE, MARYLAND 21797

DEVELOPER  
HERITAGE LAND DEVELOPMENT  
C/O THOMAS W. YEAGA  
3843 BETHANY LANE  
ELICOTT CITY, MARYLAND 21042







Category	Perimeter Edge																						
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23
Linear Feet Or Roadway Frontage/Perimeter	550'	410'	223'	193'	196'	250'	280'	282'	522'	742'	198'	250'	160'	521'	789'	764'	350'	1384'	263'	752'	263'	360'	263'
Credit For Existing Vegetation (Yes, No Linear Feet) (Describe Below If Needed)	YES 305'	NO	NO	NO	NO	NO	NO	NO	YES 250'	YES 522'	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Credit For Wall Fence Or Berm (Yes, No Linear Feet) (Describe Below If Needed)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Number Of Plants Required & Provided																							
Shade Trees	4	10	3	3	3	4	4	0	0	10	4	4	2	8	13	12	5	27	4	12	4	7	5
Evergreen Trees	--	20	--	--	--	--	--	--	--	37	9	--	--	--	--	--	--	--	--	--	--	9	6
Shrubs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

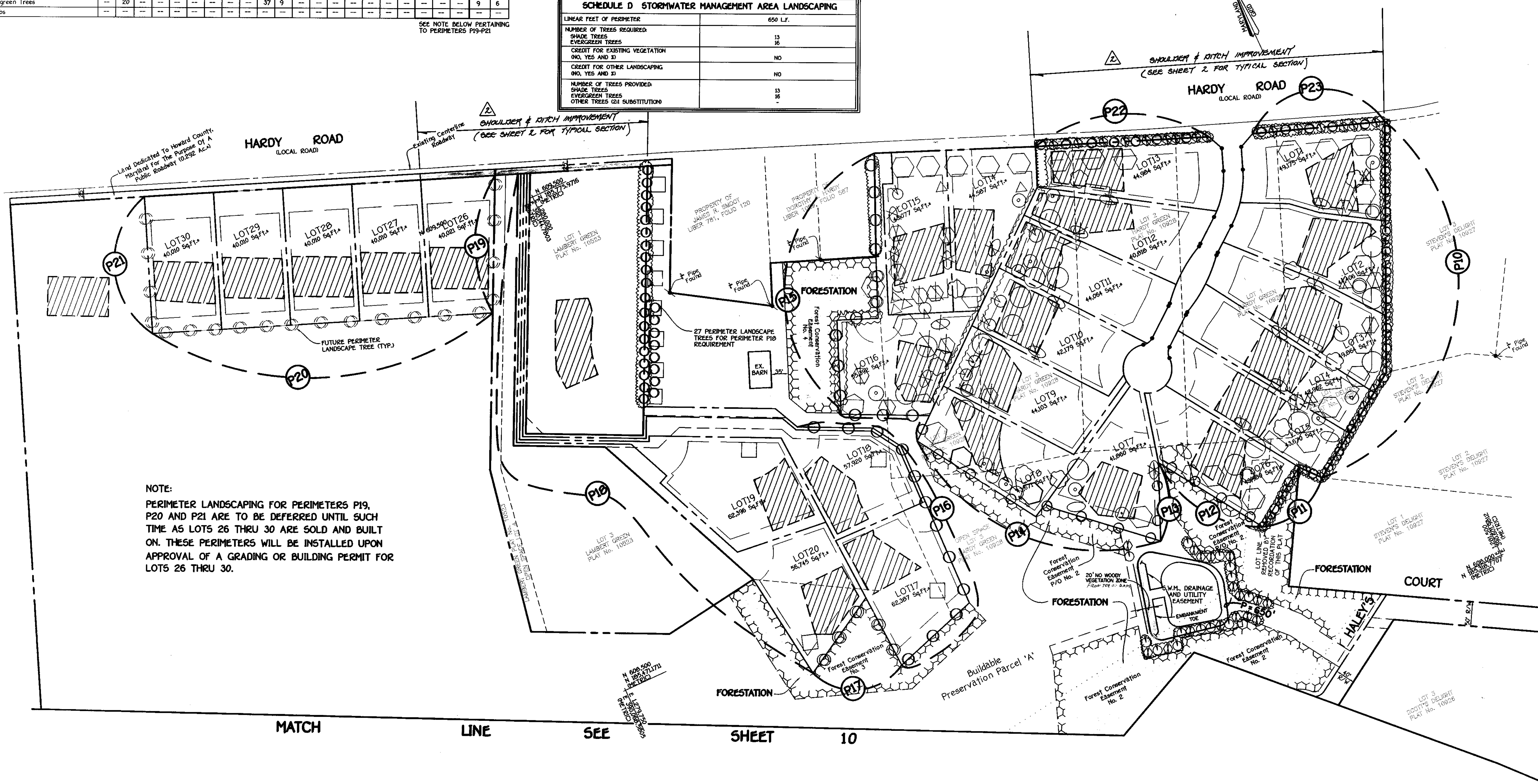
SEE NOTE BELOW PERTAINING TO PERIMETERS P19-P21

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING	
LINEAR FEET OF PERIMETER	650 LF.
NUMBER OF TREES REQUIRED:	
SHADE TREES	13
EVERGREEN TREES	16
CREDIT FOR EXISTING VEGETATION (NO, YES AND %)	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND %)	NO
NUMBER OF TREES PROVIDED:	
SHADE TREES	13
EVERGREEN TREES	16
OTHER TREES (2:1 SUBSTITUTION)	-

Approved: Department of Public Works  
*Andrew M. Danks* 3-8-99  
 Chief Bureau of Highways  
 Date

Approved: Department of Planning And Zoning  
*Cathy Hamilton* 3/15/99  
 Chief, Division of Land Development  
 Date

*Mike Dammann* 3/2/99  
 Chief, Development Engineering Division MK  
 Date



NOTE:  
 PERIMETER LANDSCAPING FOR PERIMETERS P19, P20 AND P21 ARE TO BE DEFERRED UNTIL SUCH TIME AS LOTS 26 THRU 30 ARE SOLD AND BUILT ON. THESE PERIMETERS WILL BE INSTALLED UPON APPROVAL OF A GRADING OR BUILDING PERMIT FOR LOTS 26 THRU 30.

MATCH LINE SEE SHEET 10

DEVELOPER'S / BUILDER'S CERTIFICATE  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANTING MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Willis Lambert Cussel* 8/20/98  
 NAME DATE

PLAN		
SCALE: 1" = 100'		
NO.	REVISION	DATE
1	REVISE PERIMETER LANDSCAPING	3-12-01
2	REVISED LIMITS OF SHOULDER & DITCH IMPROVEMENTS ALONG HARDY RD.	11/21/99

OWNER  
 MR. LAMBERT CUSSEL  
 3425 HIPSLEY HILL ROAD  
 WOODBINE, MARYLAND 21797

DEVELOPER  
 HERITAGE LAND DEVELOPMENT  
 C/O TIMOTHY W. FEAGA  
 3243 BETHANY LANE  
 ELLICOTT CITY, MARYLAND 21042



LANDSCAPE PLAN  
**SPRING HOLLOW**  
 LOTS 1 THRU 30 & BUILDABLE PRESERVATION PARCEL 'A'  
 (A RESUBDIVISION OF "LAMBERT GREEN", PLAT NO. 10523 - LOT 2, "HARDY GREEN", PLAT NO. 10920 - LOTS 1 THRU 5, "STEVEN'S DELIGHT", PLAT NO. 10927 - LOTS 4 AND 5, "SCOTT'S DELIGHT", PLAT NO. 10926 - LOTS 4 AND 5 AND LIBER 2806 AT FOLIO 626) ZONED RC-DEO  
 TAX MAP NO. 7 PARCEL NOS. 522, 394, 341, 144 AND 38  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: NOVEMBER 18, 1998  
 SHEET 9 OF 13

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTURIAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2895  
 F.C.C.-305229 LANDSCAPE PLAN