

**GENERAL NOTES**

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS. IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TELEPHONE 792-7272.
6. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT REVISED EDITION.
8. FOR DRIVEWAY CULVERTS, SEE DRAINAGE AREA MAP, SHEET NUMBER 17.

# SPRING VALLEY CHASE

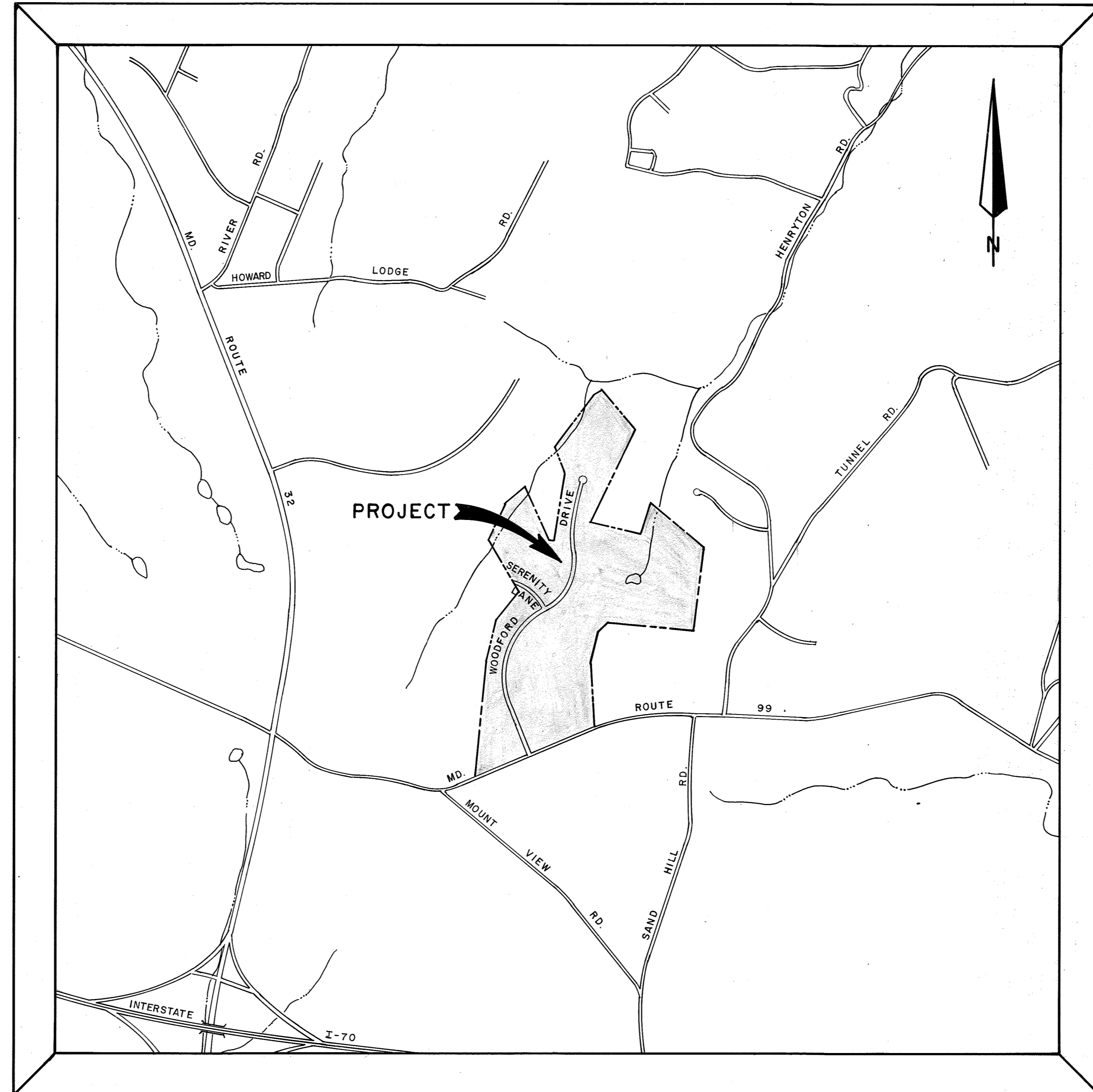
## SECTION ONE THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

APPROVED: DEPARTMENT OF PUBLIC WORKS	
<i>Ronald J. Egan</i> CHIEF, LAND DEVELOPMENT DIVISION	3/1/90 DATE
<i>Branville W. Weiland</i> CHIEF, BUREAU OF HIGHWAYS	2/27/90 DATE
APPROVED: DEPARTMENT OF PUBLIC WORKS	
<i>William E. Reed</i> CHIEF, BUREAU OF ENGINEERING	3-2-90 DATE
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>John S. J. Lang</i> CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	3/2/90 DATE

**INDEX OF SHEETS**

SHEET 1	TITLE SHEET
SHEETS 2-8	ROAD PLANS
SHEETS 9-10	STORM DRAIN PROFILES AND DETAILS
SHEETS 11-15	SEDIMENT CONTROL PLANS
SHEETS 16-18	DRAINAGE AREA MAPS
SHEET 19	STORMWATER MANAGEMENT NOTES AND DETAILS
SHEET 20-22	GRADING AND SEDIMENT CONTROLS FOR THE SCHOOL SITE
SHEET 23-24	STORMWATER MANAGEMENT NOTES AND DETAILS FOR THE SCHOOL SITE

REVISION NOTE: On or around August 1, 2017, Capital Project D-1159 entitled Spring Valley Chase Pond Repair was created. It was continued around March 1, 2023 as Capital Project D-1177 Spring Valley Chase Pond Repair. Project converted the wet pond to a shallow gravel wetland, as this pond is on a lake (stream) and needed to mitigate thermal impacts. This also replaced the principal spillway outfall structure, barrel and riser with a concrete barrel and riser.

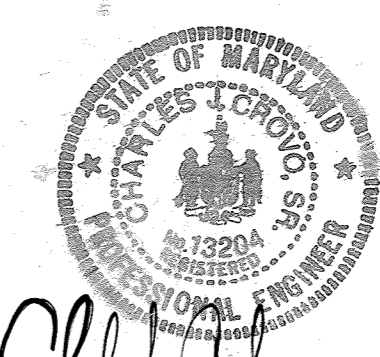


**VICINITY MAP**  
SCALE: 1" = 1200'

**OWNER AND DEVELOPER**

MS. SUSAN BAKER  
C/O ALBEE FARM  
12150 ROUTE 99  
MARRIOTTVILLE, MD. 21104

MILLER BUILT CORPORATION  
10480 LITTLE PATUXENT PARKWAY  
SUITE 600  
COLUMBIA, MARYLAND 21044



*Charles J. Crovo Sr.*  
CHARLES J. CROVO SR. DATE 7/2/89

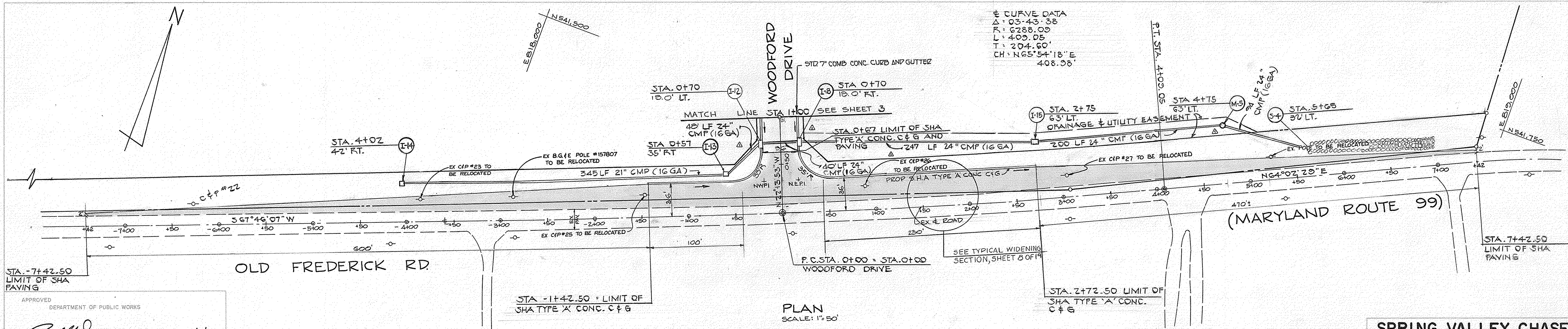
NUM.	DATE	DESCRIPTION
Δ 6-22-90	1-24	REVISED SHEET NUMBERS ON SHEETS 1-24.

1549

FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043  
TELEPHONE: (301) 461-2855

DATE	
BY	
NO.	
PLAN	
NO.	

DATE	
BY	
NO.	
PROFILE	
NO.	



± CURVE DATA  
 Δ: 03-43-38  
 R: 6288.03  
 L: 403.05  
 T: 204.60'  
 CH: N65°54'18\"/>

PLAN  
 SCALE: 1\"/>

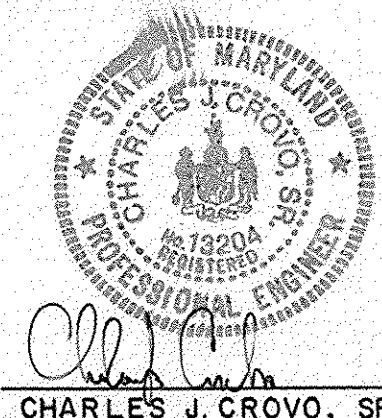
NOTE: ALL DISTURBED OR NEW PAVING REQUIRED WITHIN S.H.A. RIGHT OF WAY SHALL BE PLACED AS FOLLOWS:  
 3\"/>

UTILITIES AND OTHER OBSTRUCTIONS AS SHOWN HEREON HAVE BEEN LOCATED BY ACTUAL FIELD MEASUREMENT SUPPLEMENTED BY INFORMATION OBTAINED FROM VARIOUS AGENCIES INVOLVED. HOWEVER, WE DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF THE INFORMATION RECEIVED. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION AND MUST NOTIFY THE UTILITY COMPANIES INVOLVED THRU MISS UTILITY AT 1-800-257-7777 PRIOR TO COMMENCING WORK.

FOR CURB WITHIN S.H.A. USE TYPE 'A' CONC. CURB & GUTTER  
 ALL WORK ON MD. RTE 99 SHALL BE DONE IN ACCORDANCE WITH S.H.A. REQUIREMENTS.

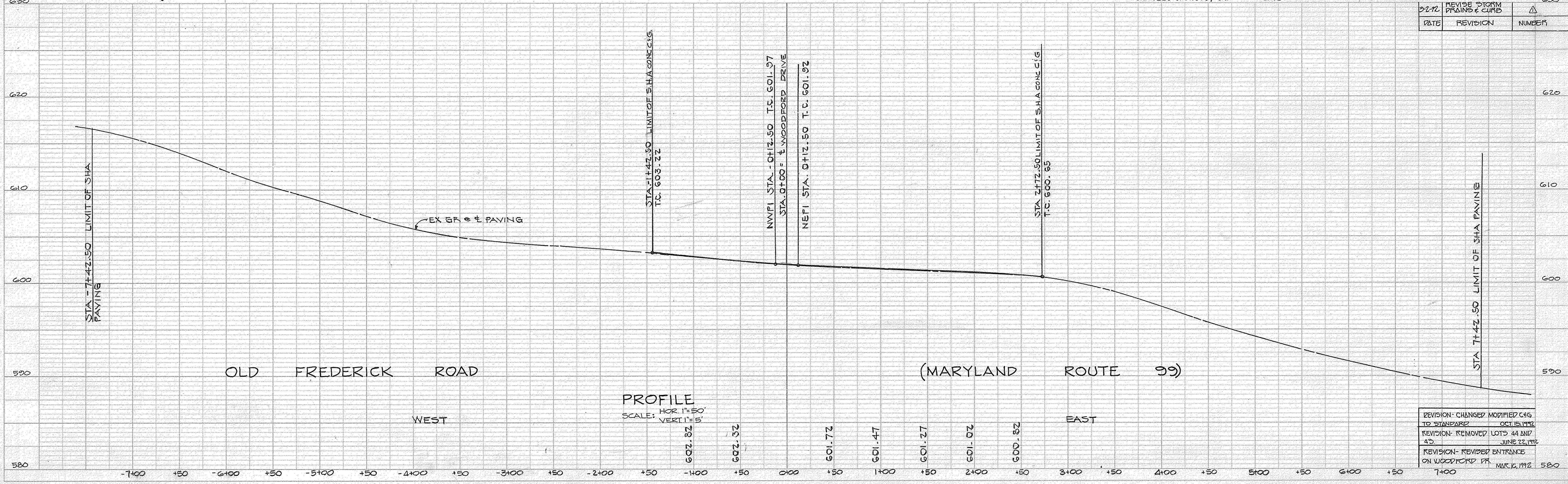
**SPRING VALLEY CHASE**  
 LOTS 1-14  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**PLAN AND PROFILE**  
 OLD FREDERICK ROAD  
 MD. ROUTE 99

OWNER AND DEVELOPER  
 ALBEE FARMS  
 12150 ROUTE 99  
 MARRIOTTSVILLE, MARYLAND 21104  
 SCALES AS SHOWN DATE 6-18-80 DWG. NO. 2 OF 24  
 DES. OB DRW. EM CHK. CC  
 FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



CHARLES J. GROVO, SR. DATE 7/19/89

DATE	REVISION	NUMBER
02-72	REVISE DORM DRAINS & CURB	1



PROFILE  
 HOR 1\"/>

REVISION- CHANGED MODIFIED C&G TO STANDARD	OCT. 15, 1972
REVISION- REMOVED LOTS 44 AND 45	JUNE 22, 1972
REVISION- REVISED ENTRANCE ON WOODFORD DR.	MAR. 16, 1972

1549

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 STRUCTURE NOTATION CHYD: \_\_\_\_\_

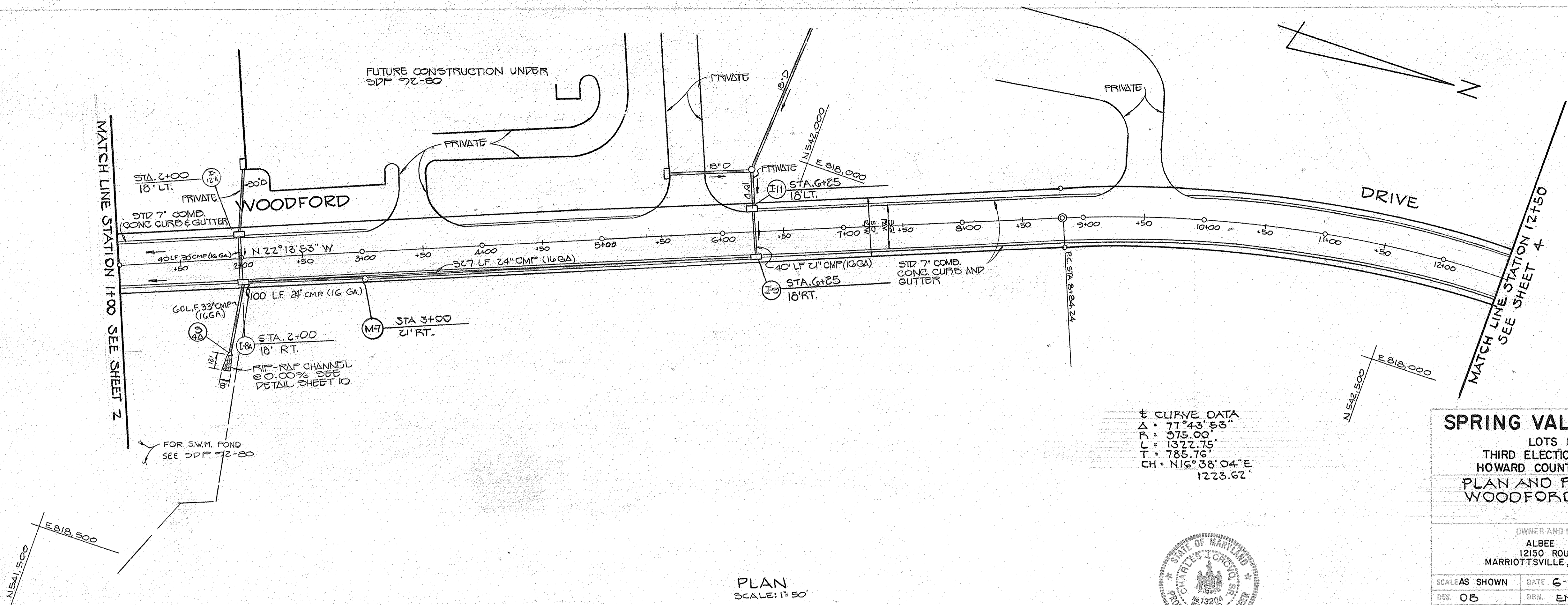
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 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 STRUCTURE NOTATION CHYD: \_\_\_\_\_

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*Donald J. Seaman* 3/1/90  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*Franklin W. Welland* 2/27/90  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*William E. Reidy* 3-2-90  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

APPROVED  
 DEPARTMENT OF PLANNING AND ZONING  
*Frank J. ...* 4/22/90  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE



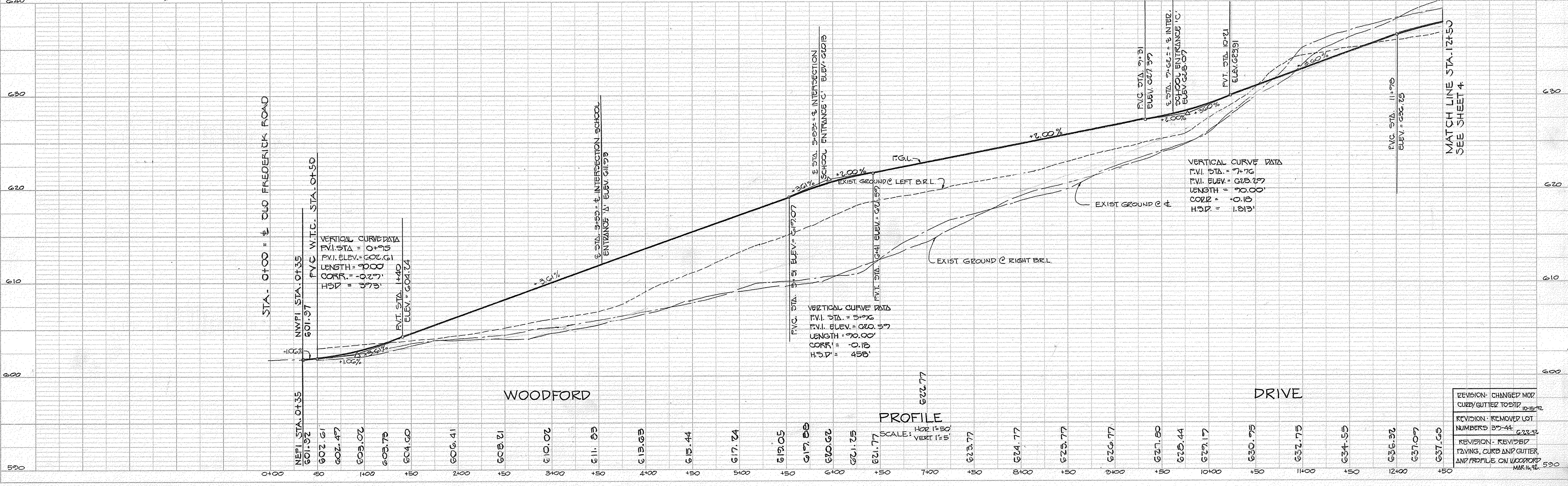
**SPRING VALLEY CHASE**  
 LOTS 1-44  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 PLAN AND PROFILE  
 WOODFORD DRIVE

OWNER AND DEVELOPER  
 ALBEE FARMS  
 12150 ROUTE 99  
 MARRIOTTSTVILLE, MARYLAND 21104

SCALE AS SHOWN DATE 6-16-85 DWG. NO. 3 OF 24  
 DES. 03 DRN. EM CHK. CC

FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND  
 REGISTERED PROFESSIONAL ENGINEER  
 CHARLES J. GROVO, SR.  
 7/19/99  
 DATE



REVISION: CHANGED MOD. CURBS/GUTTER TO STD. 10-12-90  
 REVISION: REMOVED LOT NUMBERS 37-44. 6-28-91  
 REVISION: REVISED PAVING, CURBS AND GUTTER AND PROFILE ON WOODFORD DRIVE. 10-12-90

1549

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 ALIGNMENT CHECKED: \_\_\_\_\_  
 RT. OF WAY CHECKED: \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_  
 R. M. NOTED: \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED: \_\_\_\_\_

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*Donald J. Sepp* 3/1/90  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*William W. McCreary* 2/27/90  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

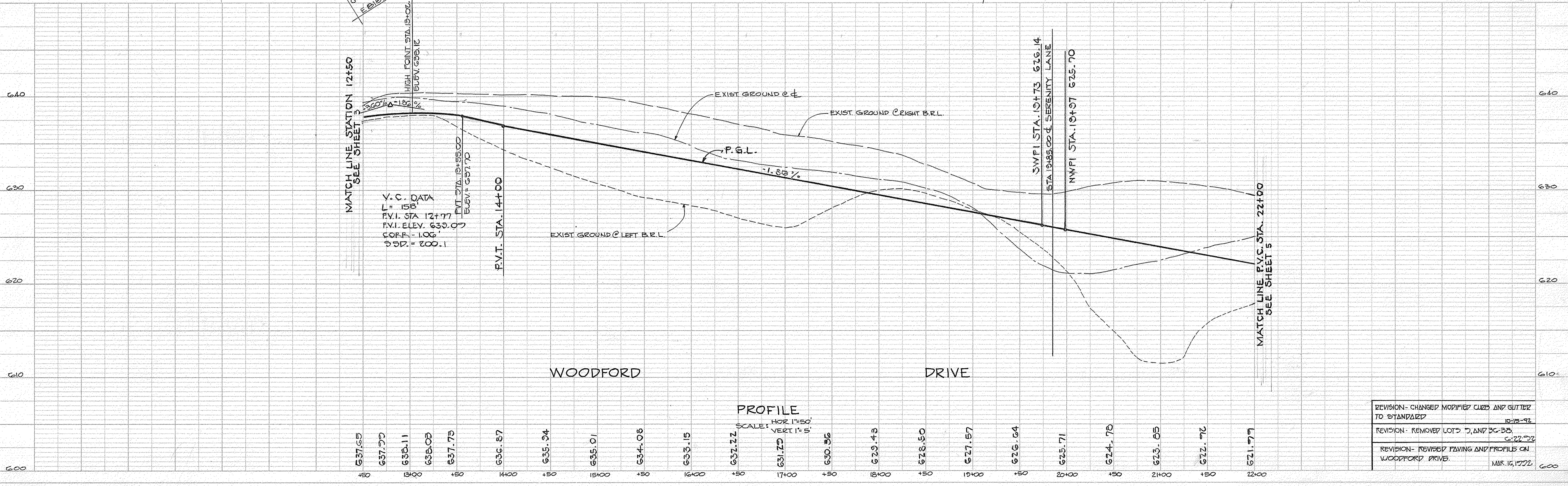
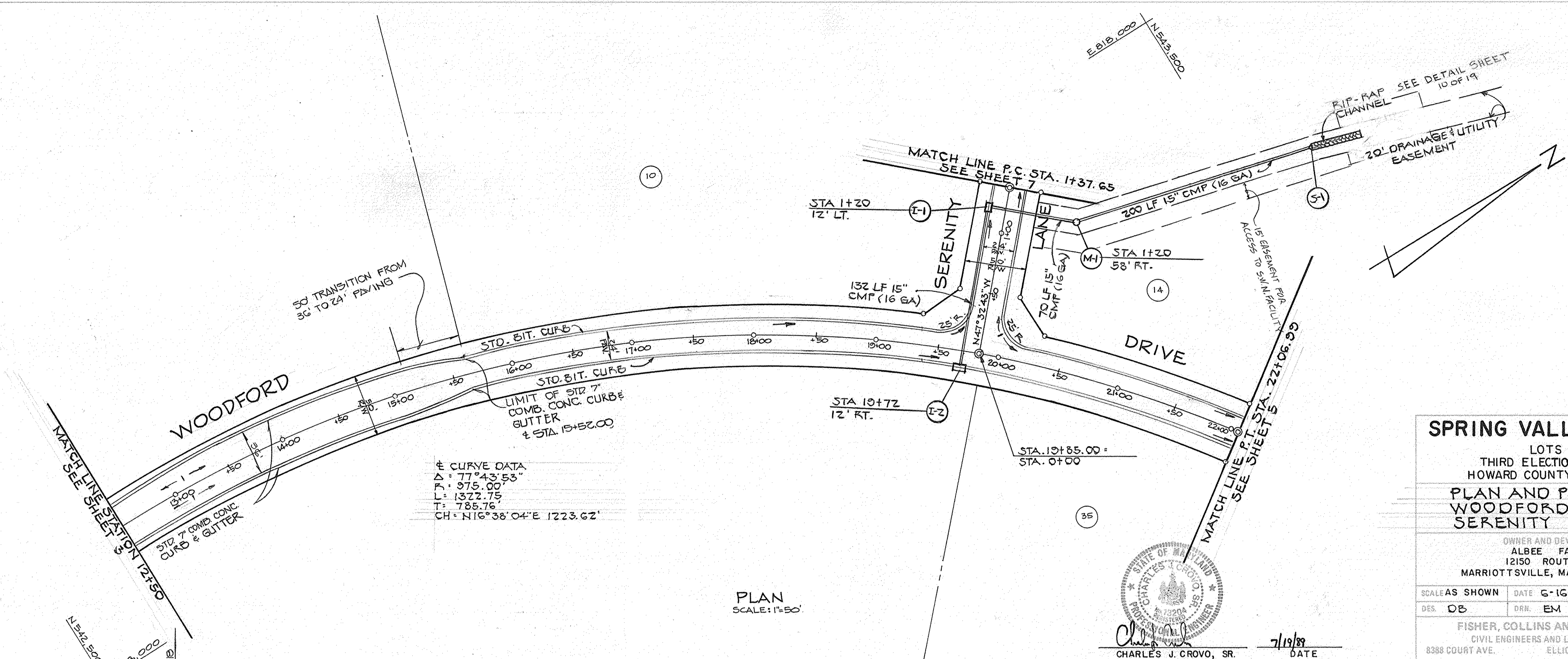
APPROVED  
 DEPARTMENT OF PLANNING AND ZONING  
*Frank J. Taylor* 4/22/90  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE

**SPRING VALLEY CHASE**  
 LOTS 1-44  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**PLAN AND PROFILE**  
**WOODFORD DRIVE**  
**SERENITY LANE**

OWNER AND DEVELOPER  
 ALBEE FARMS  
 12150 ROUTE 99  
 MARRIOTTSVILLE, MARYLAND 21104

SCALES SHOWN DATE 6-16-83 DWG. NO. 4 OF 24  
 DES. DB DRN. EM CHK. CC

FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



REVISION - CHANGED MODIFIED CURBS AND GUTTER TO STANDARD 10-13-92  
 REVISION - REMOVED LOTS 7, 8, AND 36-38 6-22-92  
 REVISION - REVISED PAVING AND PROFILES ON WOODFORD DRIVE. MAR. 16, 1972

1579

BY DATE  
 SURVEYED  
 NOTES CHECKED  
 ALIGNMENT CHECKED  
 RT. OF WAY CHECKED

PLAN  
 NO. DATE  
 APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED  
 DEPARTMENT OF PLANNING AND ZONING

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*Small W. Sepp* 3/1/90  
 CHIEF, LAND USE DIVISION DATE

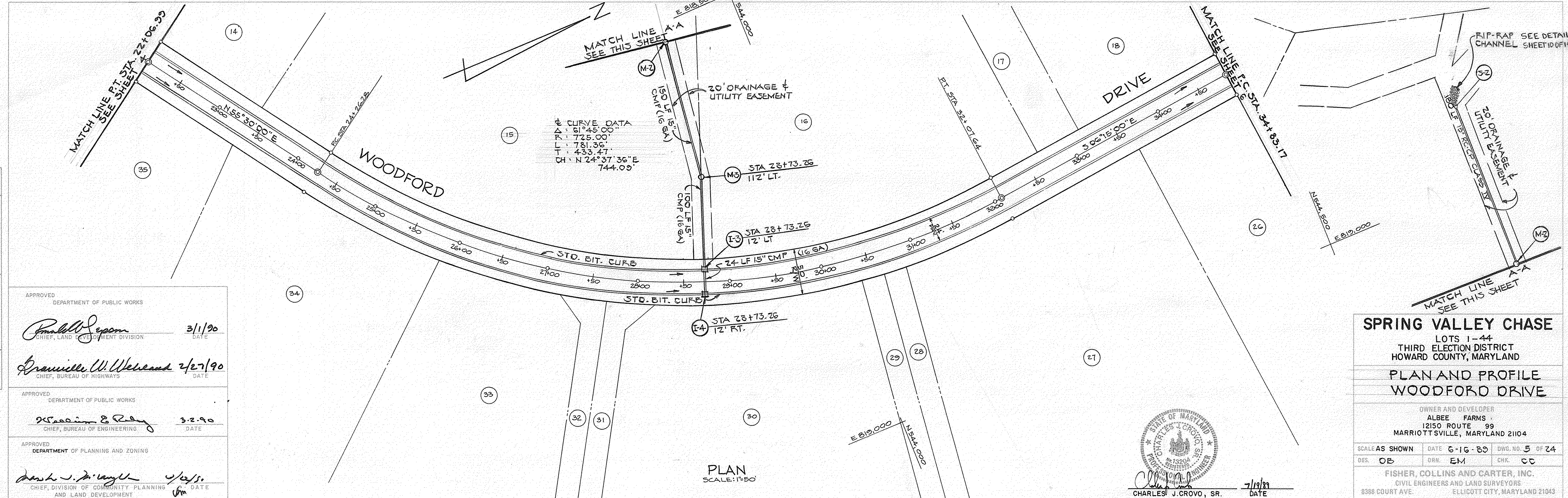
APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*Granville W. Weiland* 2/27/90  
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*William E. Riley* 3-2-90  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
 DEPARTMENT OF PLANNING AND ZONING  
*David J. Langley* 2/23/90  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

BY DATE  
 SURVEYED  
 NOTES CHECKED  
 STRUCTURE NOTATIONS CHECKED

PROFILE  
 NO. DATE



**SPRING VALLEY CHASE**  
 LOTS 1-44  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

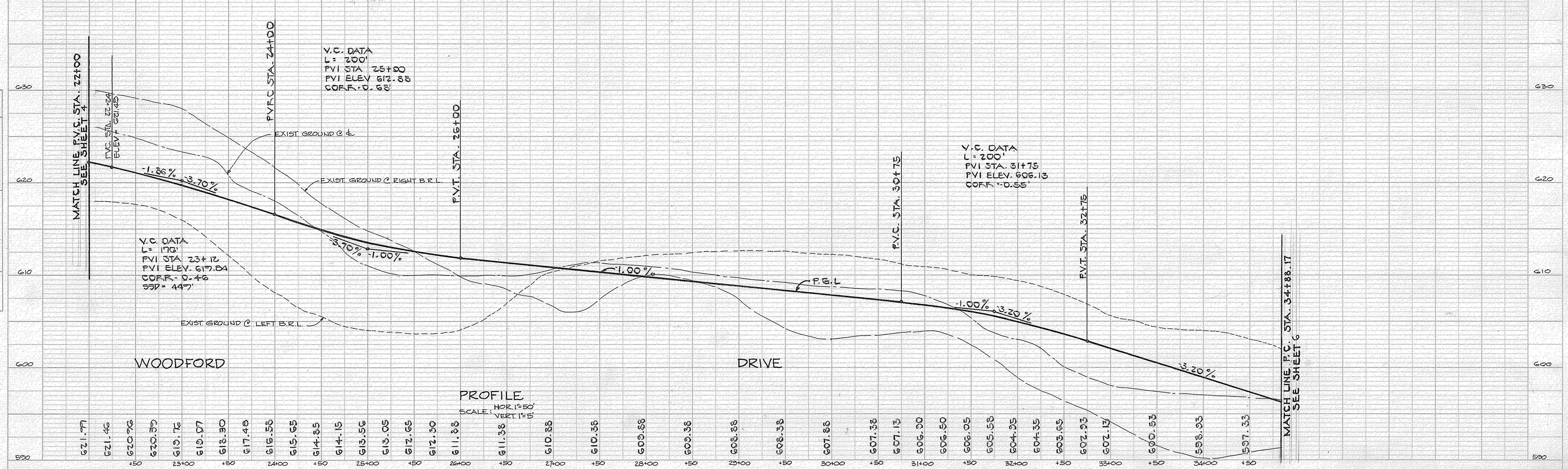
**PLAN AND PROFILE**  
**WOODFORD DRIVE**

OWNER AND DEVELOPER  
 ALBEE FARMS  
 12150 ROUTE 99  
 MARIOTT SVILLE, MARYLAND 21104

SCALE AS SHOWN DATE 6-16-89 DWG. NO. 5 OF 24  
 DES. OB DRN. EM CHK. CC

FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21143

DATE 7/19/89



1549

DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	

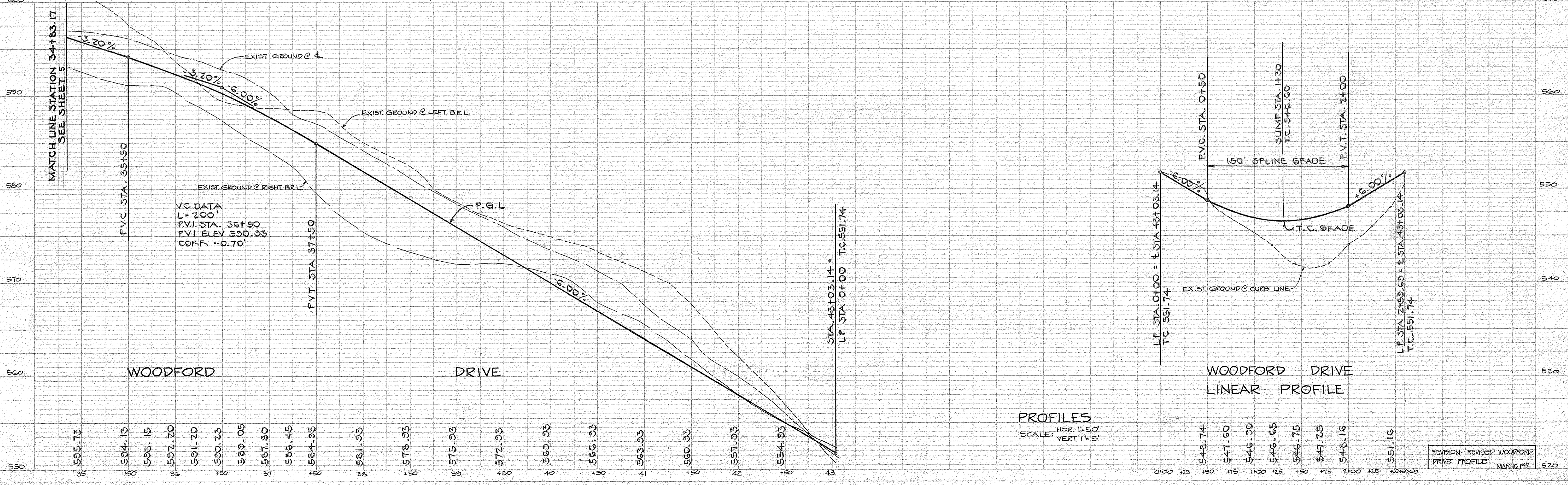
APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Donald W. Sporn* 3/1/90  
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Granville W. Wellwood* 2/27/90  
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*William E. P. ...* 3-2-90  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
*David J. ...* 4/12/90  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

DATE	
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NO.	
DATE	
BY	
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DATE	
BY	
NO.	



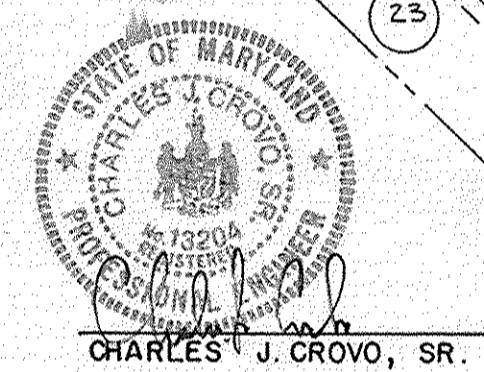
**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**PLAN AND PROFILE  
WOODFORD DRIVE**

OWNER AND DEVELOPER  
ALBEE FARMS  
12150 ROUTE 99  
MARRIOTTVILLE, MARYLAND 21104

SCALE AS SHOWN DATE 6-16-89 DWG. NO. 6 OF 24  
DES. DB DRN. EM CHK. CC

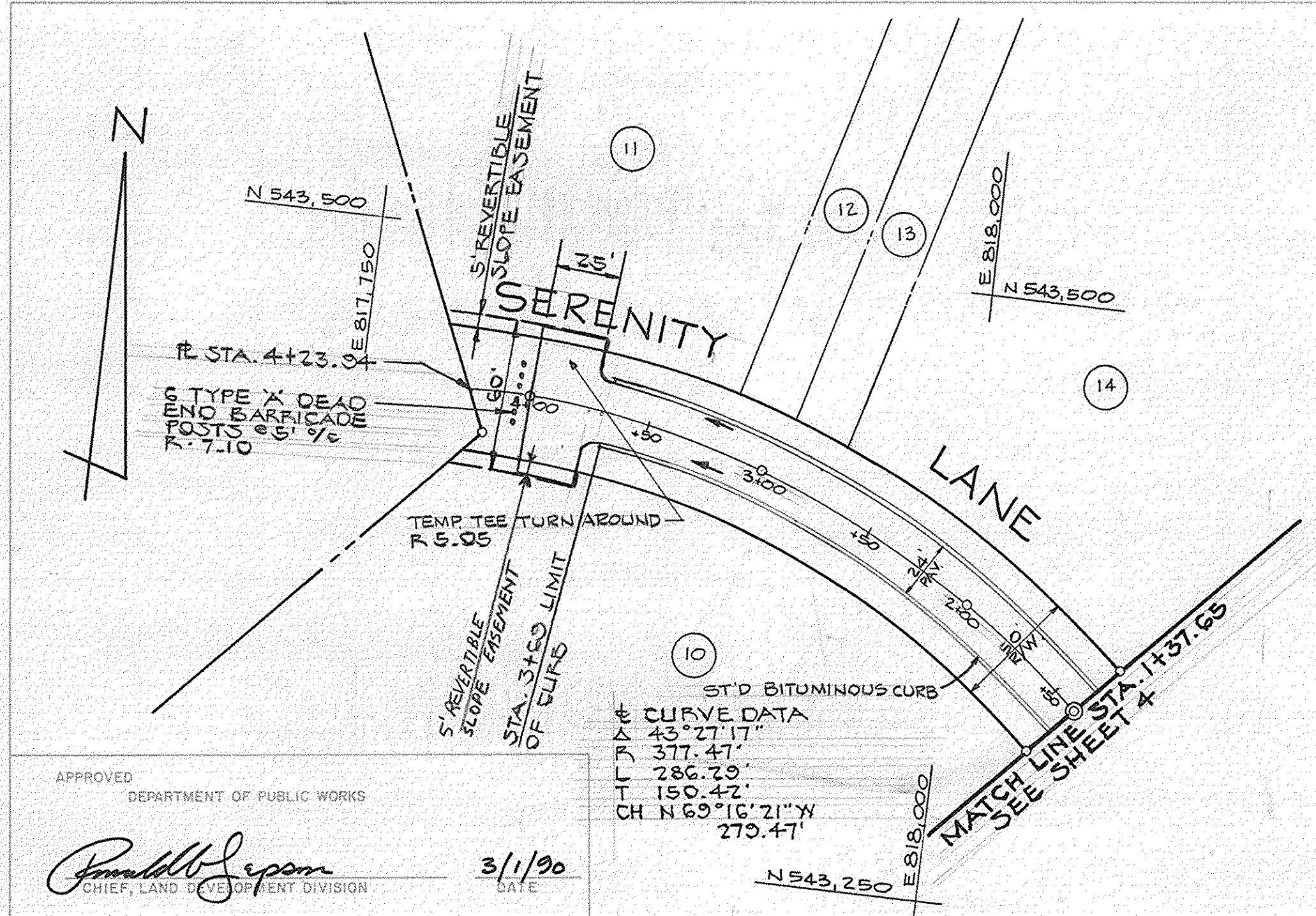
FISHER, COLLINS AND CARTER, INC.  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21104



1549

PLAN SURVEYED BY DATE  
 NOTE BOOK NO. ALIGNMENT CHECKED RT. OF WAY CHECKED

PROFILE SURVEYED BY DATE  
 NOTE BOOK NO. GRADES CHECKED STRUCTURE NOTATIONS CHECKED

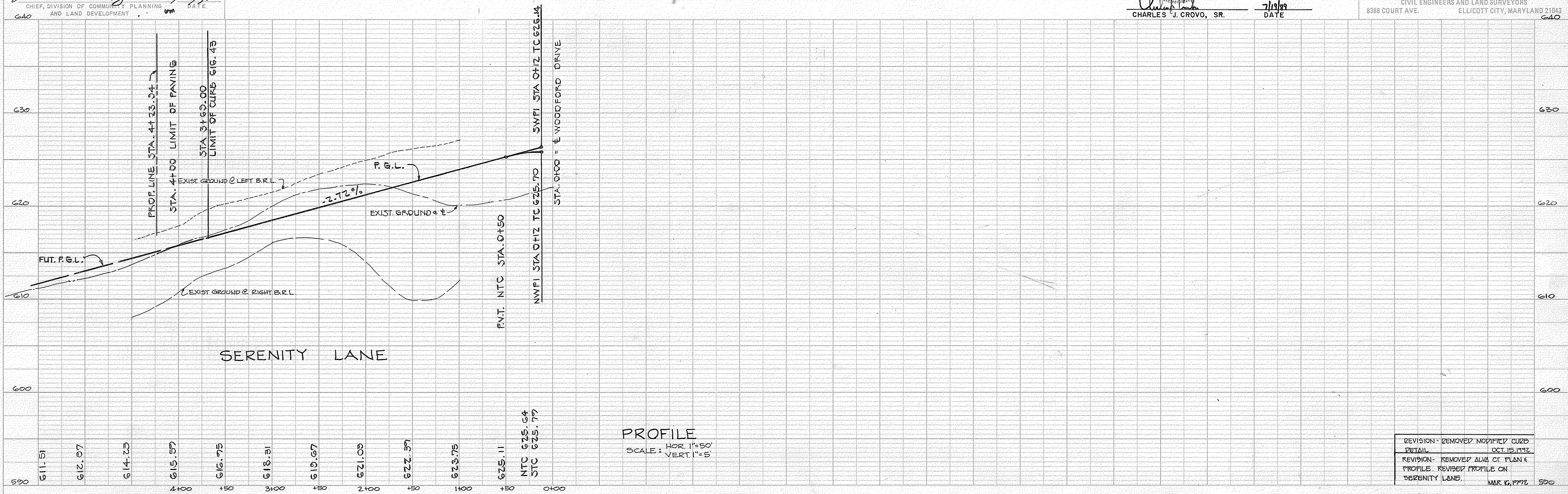
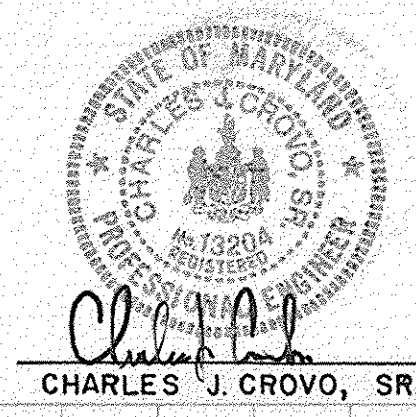


**SPRING VALLEY CHASE**  
 LOTS 1-44  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 PLAN AND PROFILE

**SERENITY LANE**  
 OWNER AND DEVELOPER  
 ALBEE FARMS  
 12150 ROUTE 99  
 MARRIOTTVILLE, MARYLAND 21104

SCALE AS SHOWN DATE 6-16-89 DWG. NO. 7 OF 24  
 DES. DB DRN. EM CHK. CC

FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043  
 640



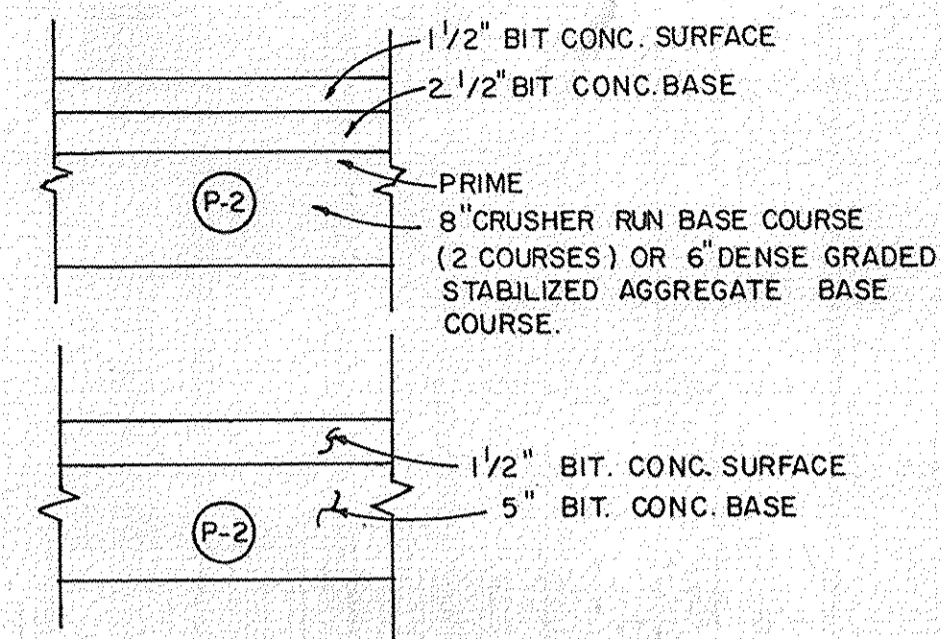
REVISION - REMOVED MODIFIED CURB  
 DETAIL OCT 15, 1978  
 REVISION - REMOVED ALMA CT. PLAN &  
 PROFILE REVISED PROFILE ON  
 SERENITY LANE MAR 16, 1978 590

1579

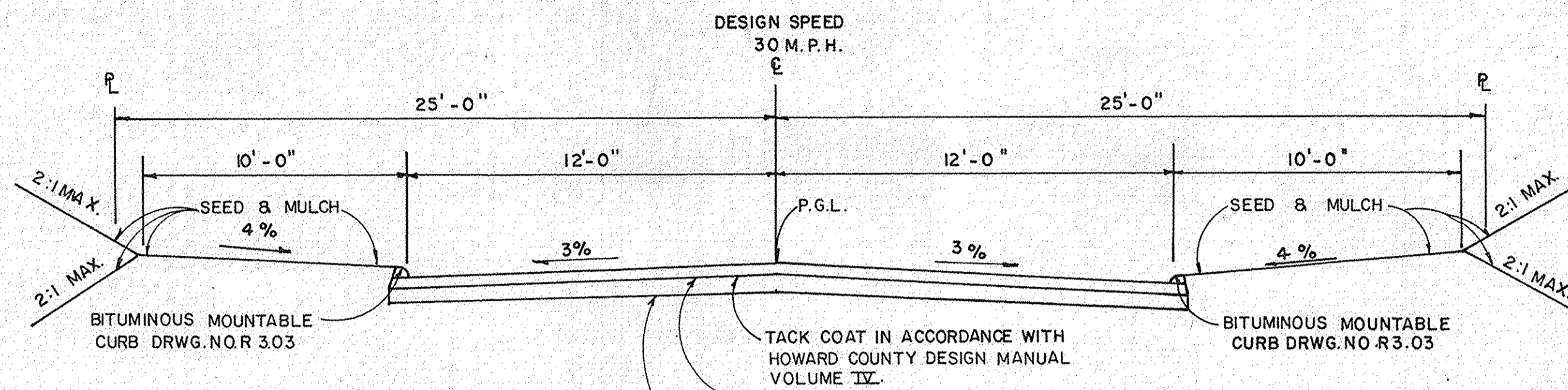
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BY  
SURVEYED  
ALIGNED CHECKED  
RT. OF WAY CHECKED  
NOTE BOOK NO.

PLAN  
DATE  
BY  
SURVEYED  
ALIGNED CHECKED  
RT. OF WAY CHECKED  
NOTE BOOK NO.

DATE  
BY  
SURVEYED  
PLOTTED  
S. A. NOTED  
STRUCTURE NOTATIONS CHKD  
NOTE BOOK NO.



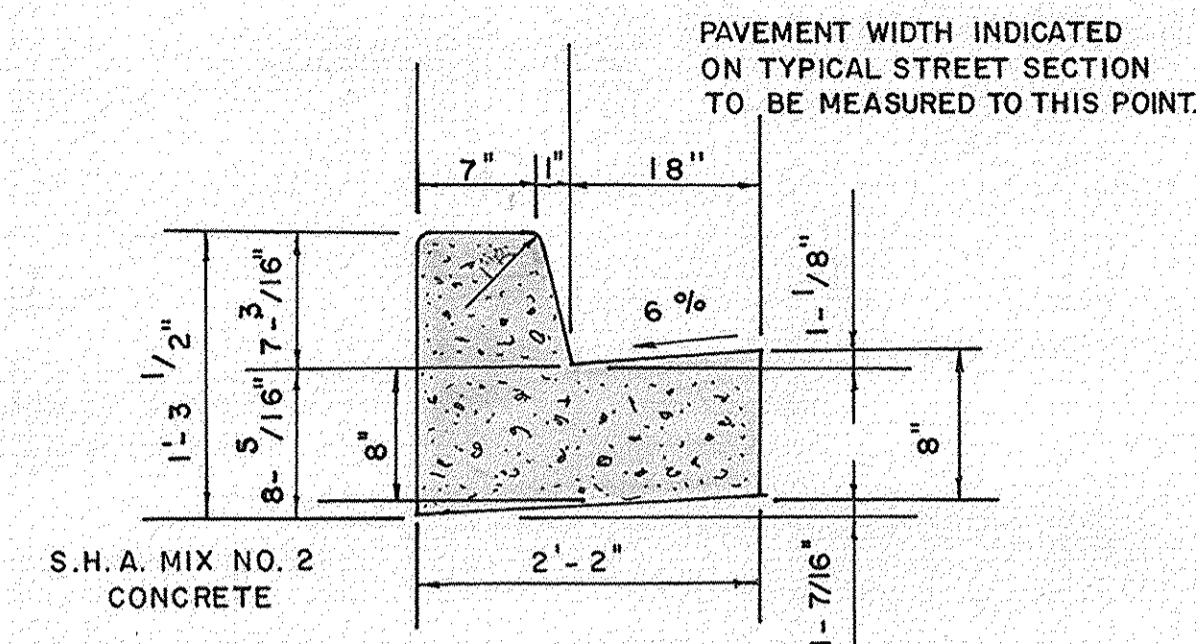
**PAVING SECTION P-2**  
NO SCALE



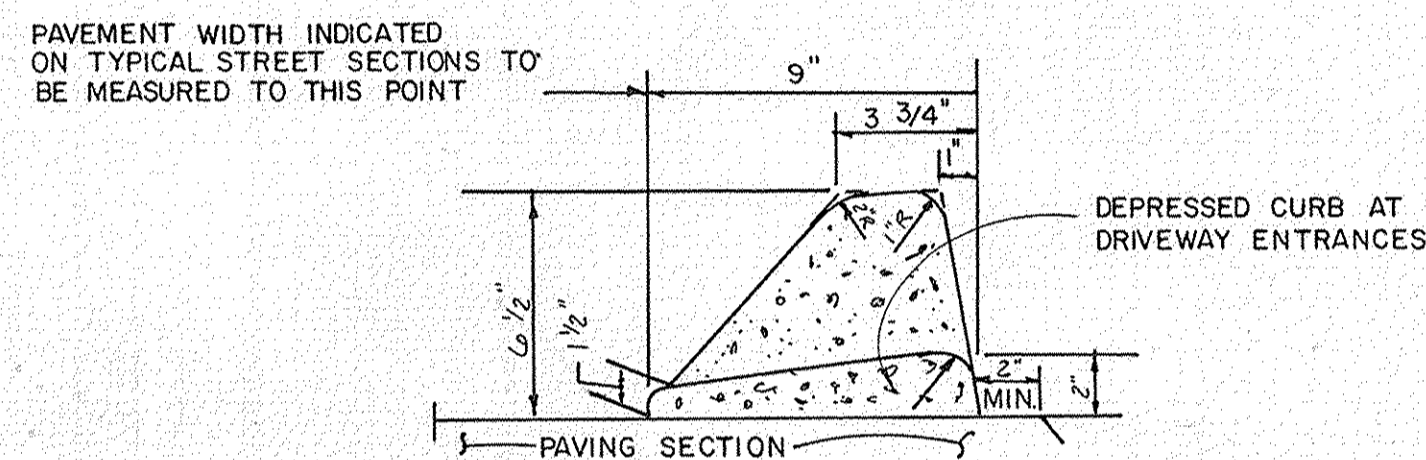
NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

TACK COAT IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX.  
PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2, DRAWING R-2.01.  
BASE WILL BE PRIMED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX.

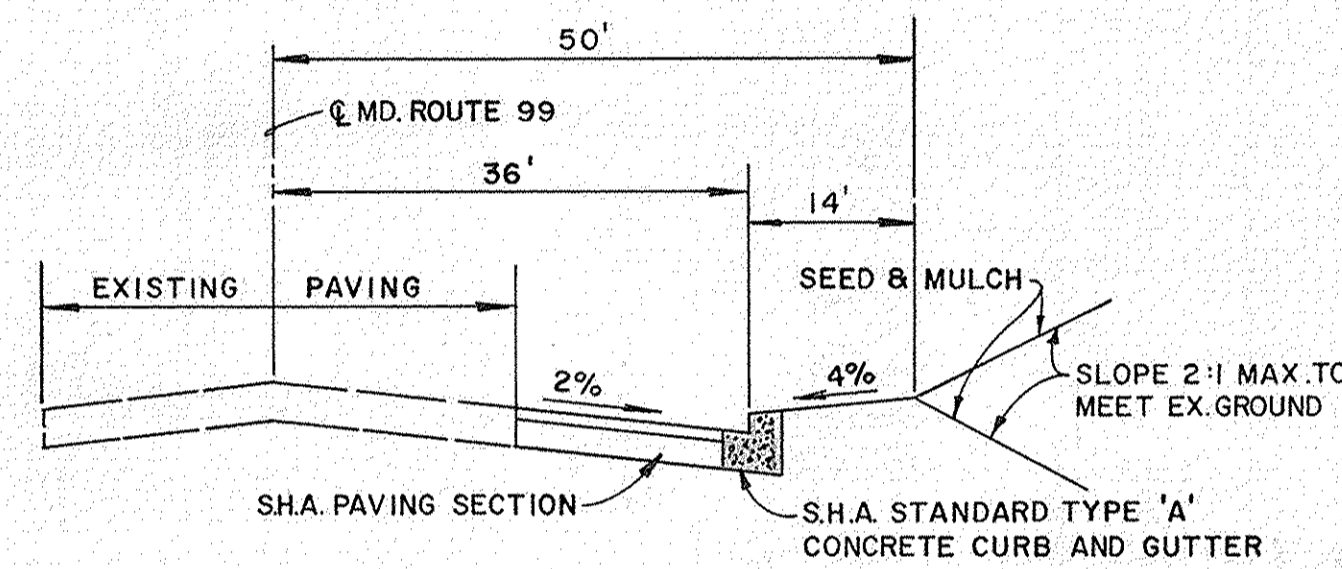
**TYPICAL ROADWAY SECTION**  
NO SCALE



**STANDARD 7" COMB. CONG. CURB & GUTTER**  
NO SCALE



**STANDARD BITUMINOUS CURB**  
NO SCALE



**TYPICAL WIDENING SECTION ALONG MARYLAND ROUTE 99**  
NO SCALE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Donald J. Sepp* 3/1/90  
CHIEF, LAND DEVELOPMENT DIVISION  
DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Francis W. Welstead* 2/27/90  
CHIEF, BUREAU OF HIGHWAYS  
DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*William E. Kelly* 3-2-90  
CHIEF, BUREAU OF ENGINEERING  
DATE

APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
*Mark J. D'Angelo* 4/22/90  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
DATE

STATE OF MARYLAND  
NOTARY PUBLIC  
No. 73204  
EXPIRES 12/31/92  
*Charles J. Crovo, Sr.*  
CHARLES J. CROVO, SR. DATE 7/19/89

**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**DETAILS**

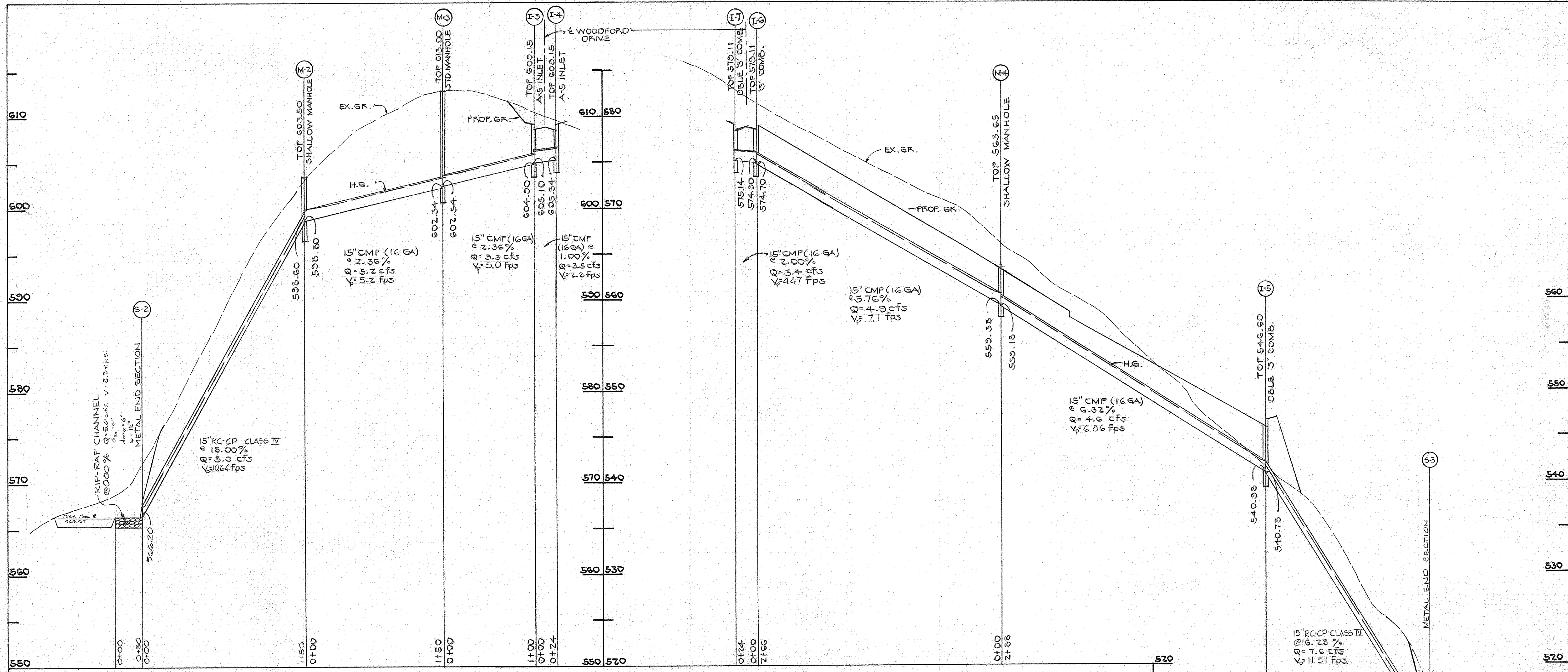
OWNER AND DEVELOPER  
ALBEE FARMS  
12150 ROUTE 99  
MARRIOTTSVILLE, MARYLAND 21104

SCALE SHOWN DATE 6-16-89 DWG. NO. 8 OF 24  
DES. DB DRN. EM CHK. C.C.

FISHER, COLLINS AND CARTER, INC.  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

1549





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

APPROVED  
DEPARTMENT OF PUBLIC WORKS

*Paul J. Egan* 3/1/90  
CHIEF, LAND DEVELOPMENT DIVISION DATE

*Stanville W. Welstead* 2/27/90  
CHIEF, BUREAU OF HIGHWAYS DATE

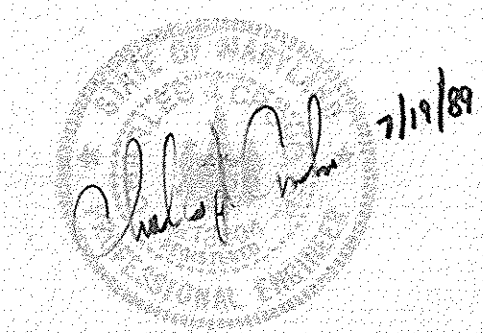
APPROVED  
DEPARTMENT OF PUBLIC WORKS

*William S. Pugh* 3-2-90  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
DEPARTMENT OF PLANNING AND ZONING

*Wesley J. Taylor* 4/22/90  
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

DATE	REVISION	BY
6-10-04	REVISE OUTFALL TO S-3	Δ



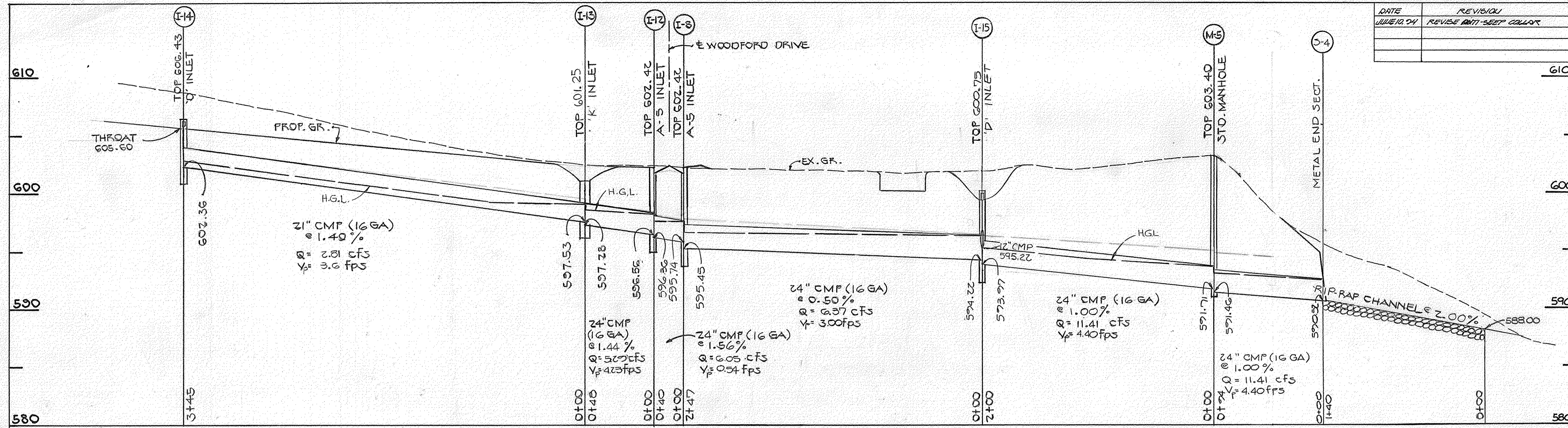
**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**STORM DRAIN PROFILES & DETAILS**

OWNER AND DEVELOPER:  
ALBEE FARMS  
12150 ROUTE 20,  
MARKKNOTTSVILLE, MARYLAND 21104

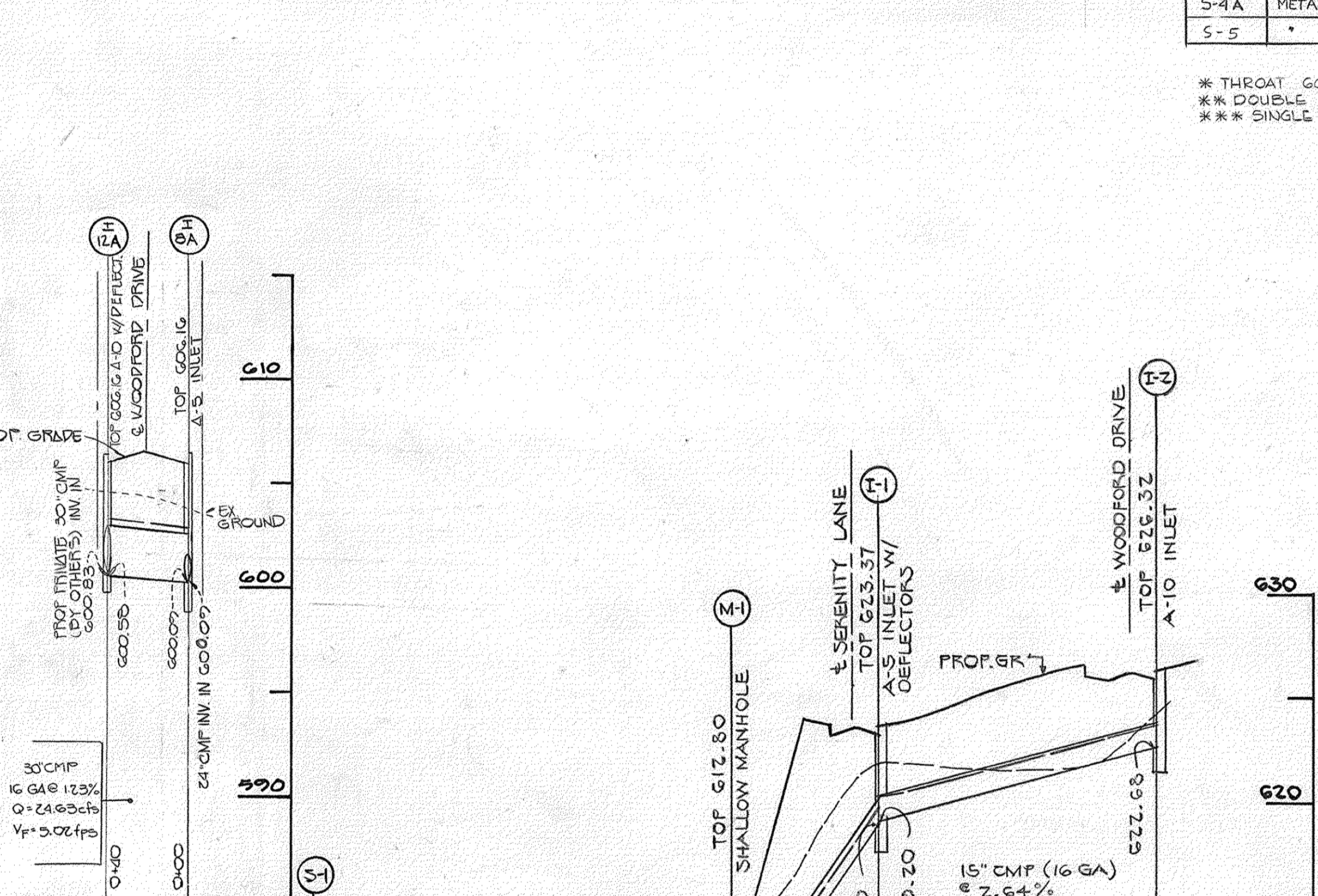
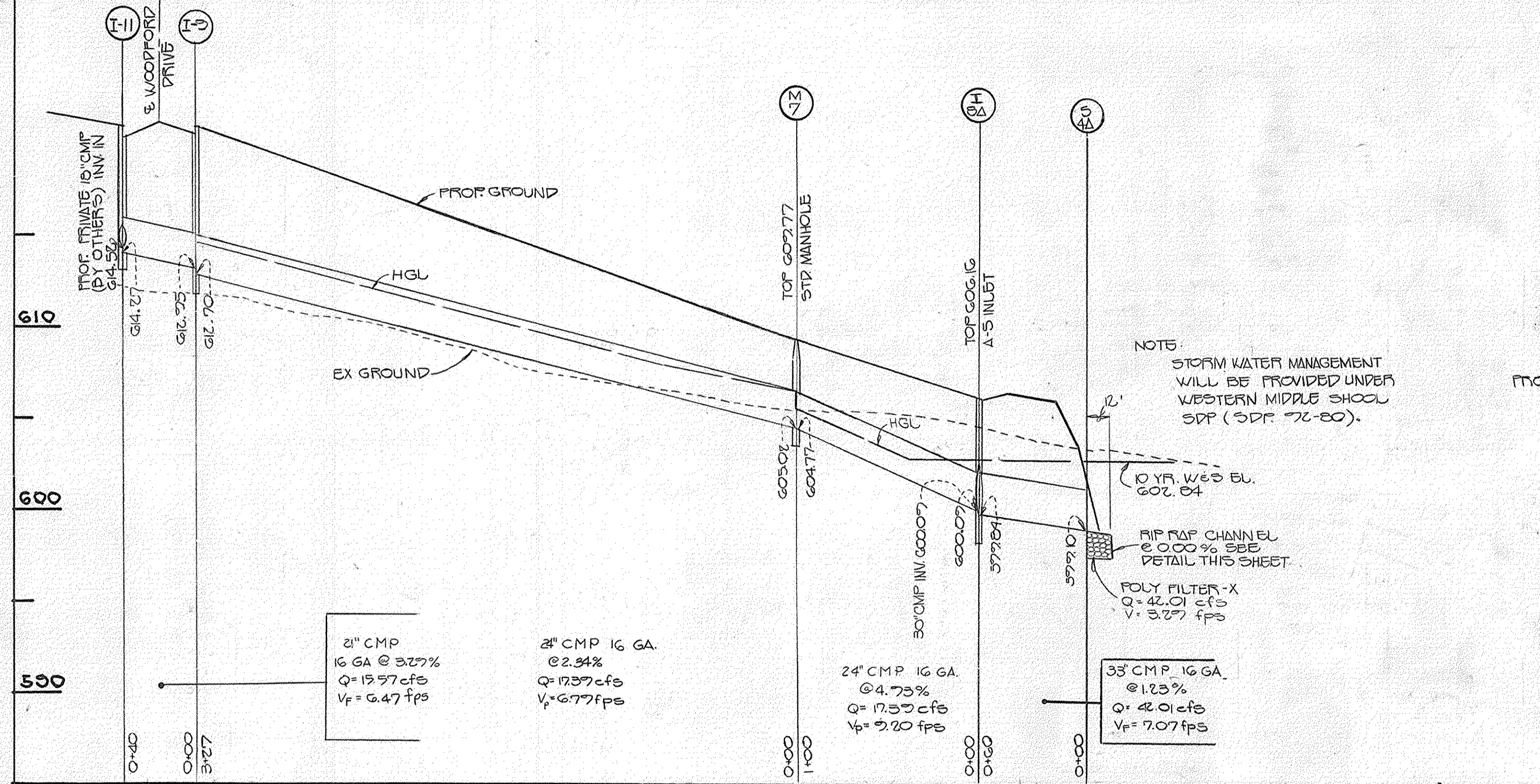
SCALE: AS SHOWN DATE: 6-16-89 DWS. NO. 0 OF 24  
DES: DB DRN: EM CK: CC

**FISHER, COLLINS AND CARTER, INC.**  
CIVIL ENGINEERS AND LAND SURVEYORS  
8888 COURT AVE. ELLICOTT CITY, MARYLAND 21043



DATE		REVISION		L.S.	STRUCTURE SCHEDULE					
DATE	REVISION	DATE	REVISION		NO.	TYPE	INV. IN.	INV. OUT.	TOP	REMARKS
					I-1	A-5 W/ DEFLECTORS	619.20	619.00	623.37	SD 4.01
					I-2	A-10	622.68	626.32	SD 4.02	
					I-3	A-5	608.10	604.00	609.15	SD 4.01
					I-4	A-5	-	608.34	609.15	SD 4.01
					I-5	DBLE 'S' COMB.	540.38	540.78	546.60	SD 4.34
					I-6	'S' COMB.	574.00	574.70	579.11	SD 4.32
					I-7	DBLE 'S' COMB.	-	575.14	579.11	SD 4.34
					I-8	A-5	595.74	595.45	602.42	SD 4.01
					I-9	A-5 W/ DEFLECTORS	612.75	612.70	621.04	SD 4.01
					I-11	A-10 W/ DEFLECTORS	614.52	614.27	621.04	SD 4.02
					I-12	A-5	596.56	596.36	602.42	SD 4.01
					I-13	'K'	597.53	597.28	601.25	MD-375.11*
					I-14	'D' INLET	-	602.36	606.43	MD-375.11*
					M-1	SHALLOW MH	608.70	608.50	612.80	6 S. 05
					M-2	SHALLOW MH	598.80	598.60	603.50	6 S. 05
					M-3	STD. MH	602.54	602.34	613.00	6 S. 01
					M-4	SHALLOW MH	559.38	559.18	563.65	6 S. 05
					M-5	STD. MH	591.71	591.46	603.40	6 S. 02
					I-15	'D' INLET	595.22	593.97	600.75	MD-375.11**
					M-7	STD. MH	605.02	604.77	609.77	6 S. 02
					S-1	METAL END SECT.	-	597.30	-	SD 5.61
					S-2	"	-	599.00	-	"
					S-3	"	-	595.78	-	"
					S-4	"	-	590.52	-	"
					I-12A	A-10 W/ DEFLECTORS	620.83	620.58	626.16	SD 4.02
					I-8A	A-5	608.59	599.84	606.16	SD 4.01
					S-4A	METAL END SECT.	599.10	599.00	-	SD 5.61
					S-5	"	-	528.50	-	"

\* THROAT 605.60  
 \*\* DOUBLE OPENING  
 \*\*\* SINGLE OPENING



NOTE:  
 1. V<sub>p</sub> DENOTES PARTIAL FLOW VELOCITY.  
 2. V<sub>f</sub> DENOTES FULL FLOW VELOCITY.  
 3. STORM DRAIN BEDDING CLASS 'C' WILL BE USED.

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

APPROVED  
 DEPARTMENT OF PUBLIC WORKS

*Paul M. Johnson* 3/1/90  
 CHIEF, LAND DEVELOPMENT DIVISION DATE

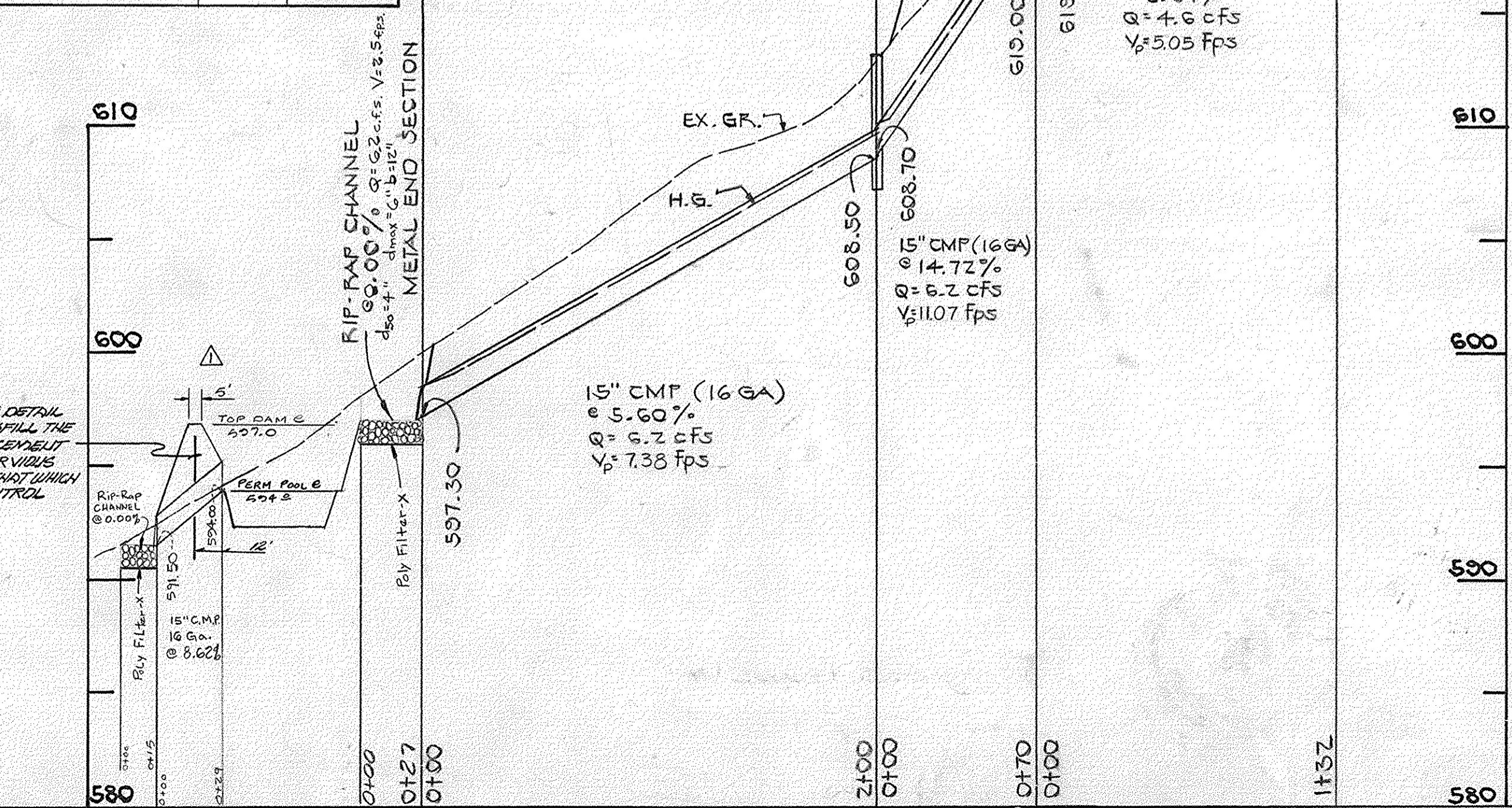
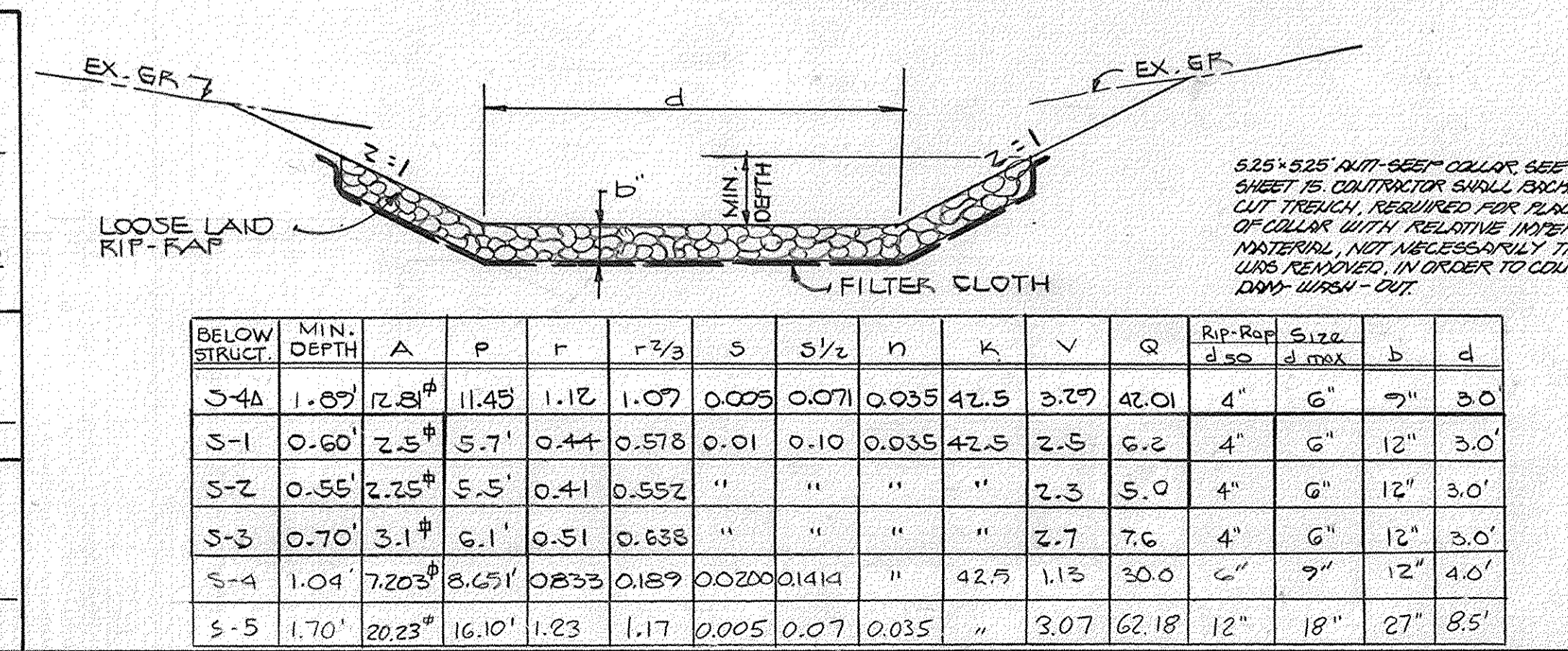
*Francis W. Wheeler* 2/27/90  
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
 DEPARTMENT OF PUBLIC WORKS

*William S. Kelly* 3-2-90  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
 DEPARTMENT OF PLANNING AND ZONING

*Paul J. Lange* Yes.  
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE



REVISED: REMOVED RIDER DATE PENTAL. 6-22-92

REVISED: STRUCTURE SCHEDULE, RIP-RAP PITS (S-4A) AND PROFILE 1+4 TO 5+4, 5+1 TO 5+40 AND 2+12 TO 5+8. MAR 16, 1992

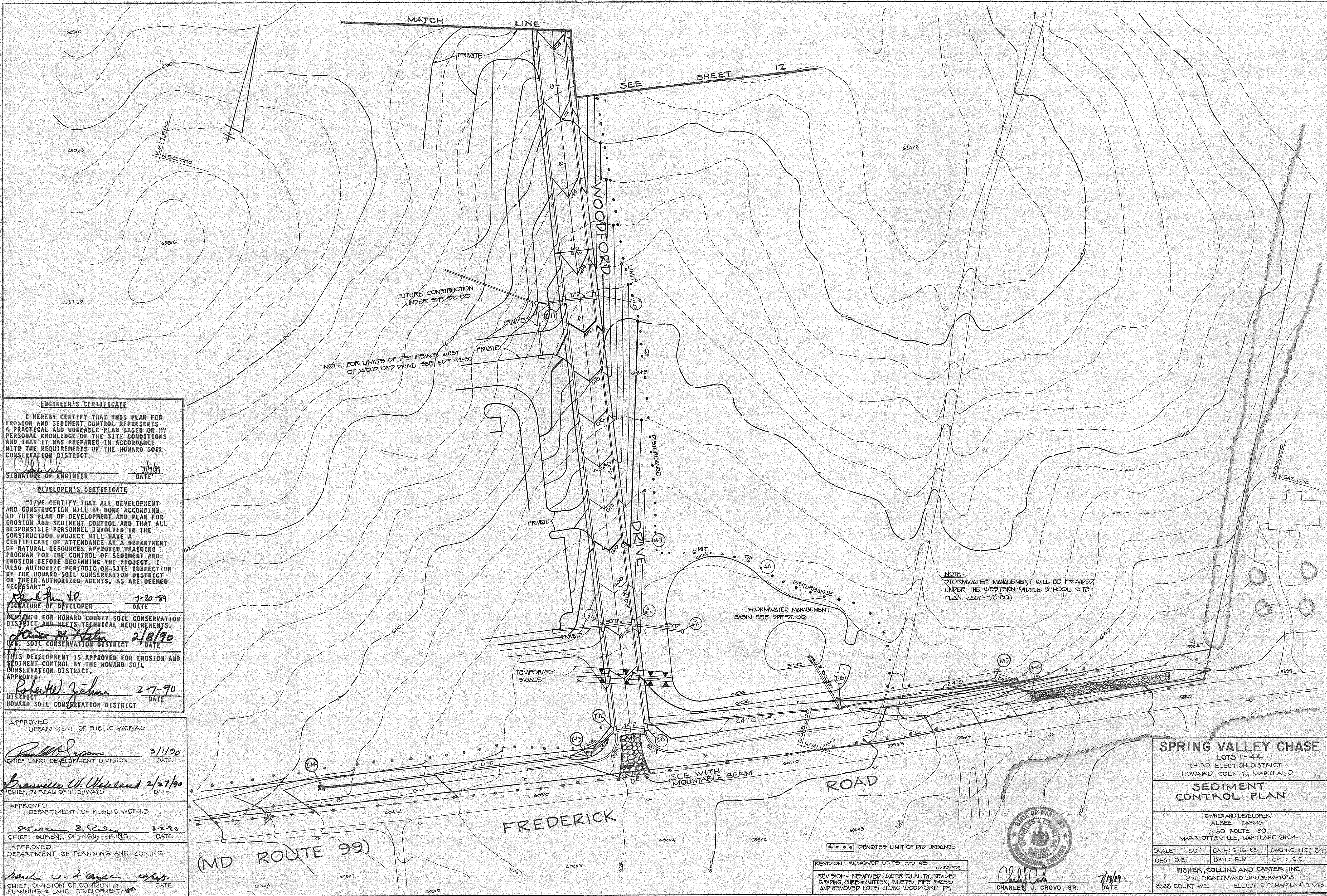
**SPRING VALLEY CHASE**  
 LOTS 1-44  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**STORM DRAIN PROFILES & DETAILS**

OWNER AND DEVELOPER:  
 ALBEE FARMS  
 12150 ROUTE 99  
 MARIOTTSVILLE, MARYLAND 21104

SCALE: AS SHOWN DATE: 6-16-89 DWG NO 10 OF 24  
 DES: DB DRN: EM CK: CC

**FISHER, COLLINS AND CARTER, INC.**  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



**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 CONDITIONS AND THAT IT HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature of Engineer: *Charles J. Crovo, Sr.* DATE: 7/1/89

**DEVELOPER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
 Signature of Developer: *Frank J. V.P.* DATE: 1-20-89

APPROVED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 Signature: *James M. Nelson* DATE: 2/8/90  
 U.S. SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Robert W. Johnson* DATE: 2-7-90  
 DISTRICT ENGINEER  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED DEPARTMENT OF PUBLIC WORKS  
 Signature: *Donald W. Johnson* DATE: 3/1/90  
 CHIEF, LAND DEVELOPMENT DIVISION

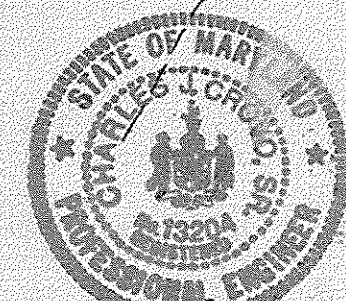
Signature: *Brunelle W. Wheland* DATE: 2/27/90  
 CHIEF, BUREAU OF HIGHWAYS

APPROVED DEPARTMENT OF PUBLIC WORKS  
 Signature: *William E. Riley* DATE: 3-2-90  
 CHIEF, BUREAU OF ENGINEERING

APPROVED DEPARTMENT OF PLANNING AND ZONING  
 Signature: *David J. Taylor* DATE: 4/14/90  
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

**SPRING VALLEY CHASE**  
 LOTS 1-44  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**SEDIMENT CONTROL PLAN**

OWNER AND DEVELOPER:  
 ALBEE FARMS  
 12150 ROUTE 99  
 MARRIOTTSVILLE, MARYLAND 21104  
 SCALE: 1" = 50' DATE: 6-16-89 DWS. NO. 11 OF 24  
 DES: D.B. DRN: E.M. CK: C.C.  
 FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8338 COURT AVE. ELLICOTT CITY, MARYLAND 21104



Signature: *Charles J. Crovo, Sr.* DATE: 7/1/89  
 CHARLES J. CROVO, SR. DATE

REVISION - REMOVED LOTS 35-45  
 REVISION - REMOVED WATER QUALITY, REVISED GRADING CURB & GUTTER, INLETS, PIPE SIZES AND REMOVED LOTS ALONG WOODFORD DR.

1549

**TEMPORARY SEEDING NOTES:**  
 WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION:** LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
- ACCEPTABLE - APPLY 2 TONS PER ACRE UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.

**SEEDING:** FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WILL ANCHORED STRAW. OPTION (4) UNROTATED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES:**  
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION:** LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.)

**SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

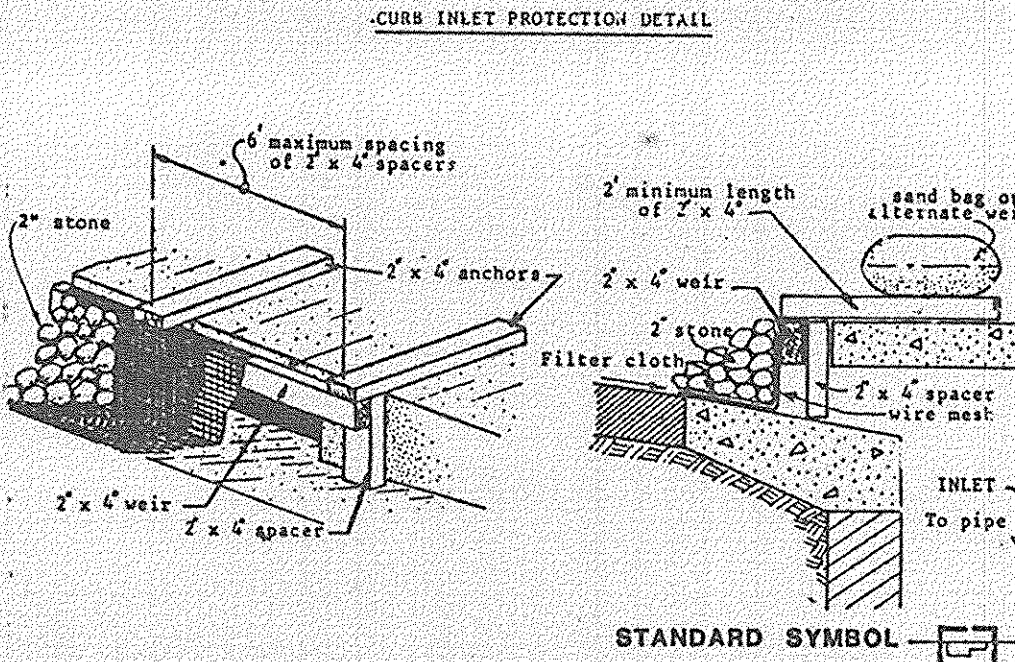
**MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTATED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

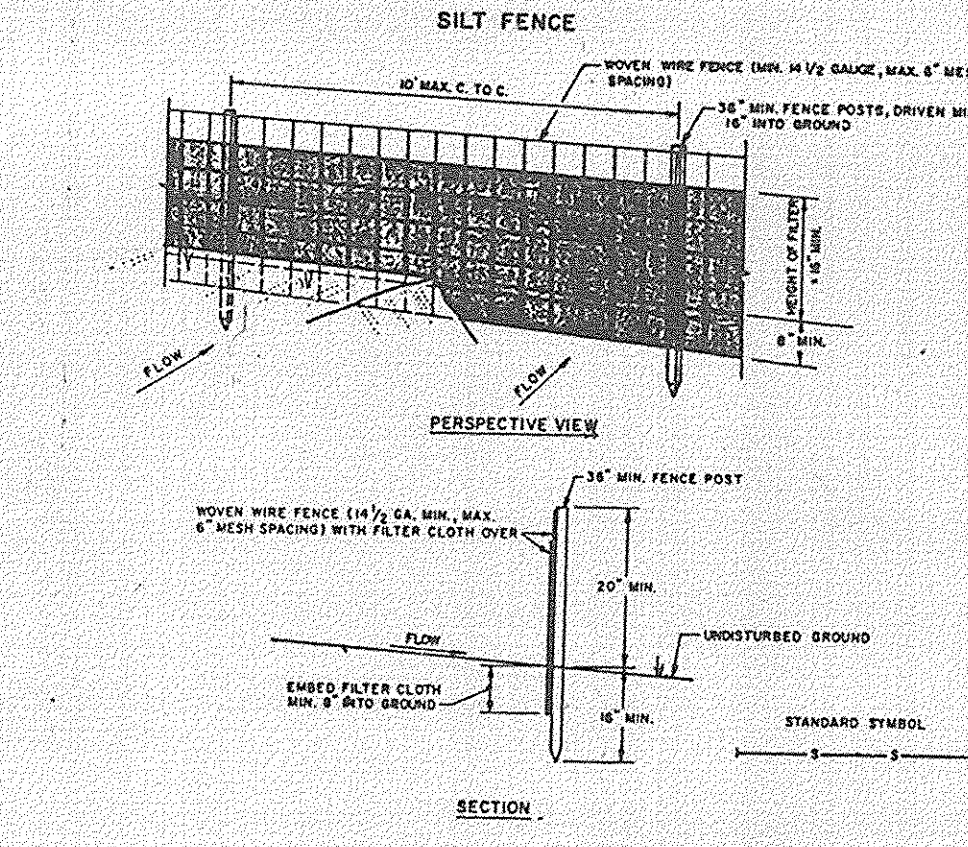
**SEEDING CONTROL NOTES:**

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (892-2437).
- 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 

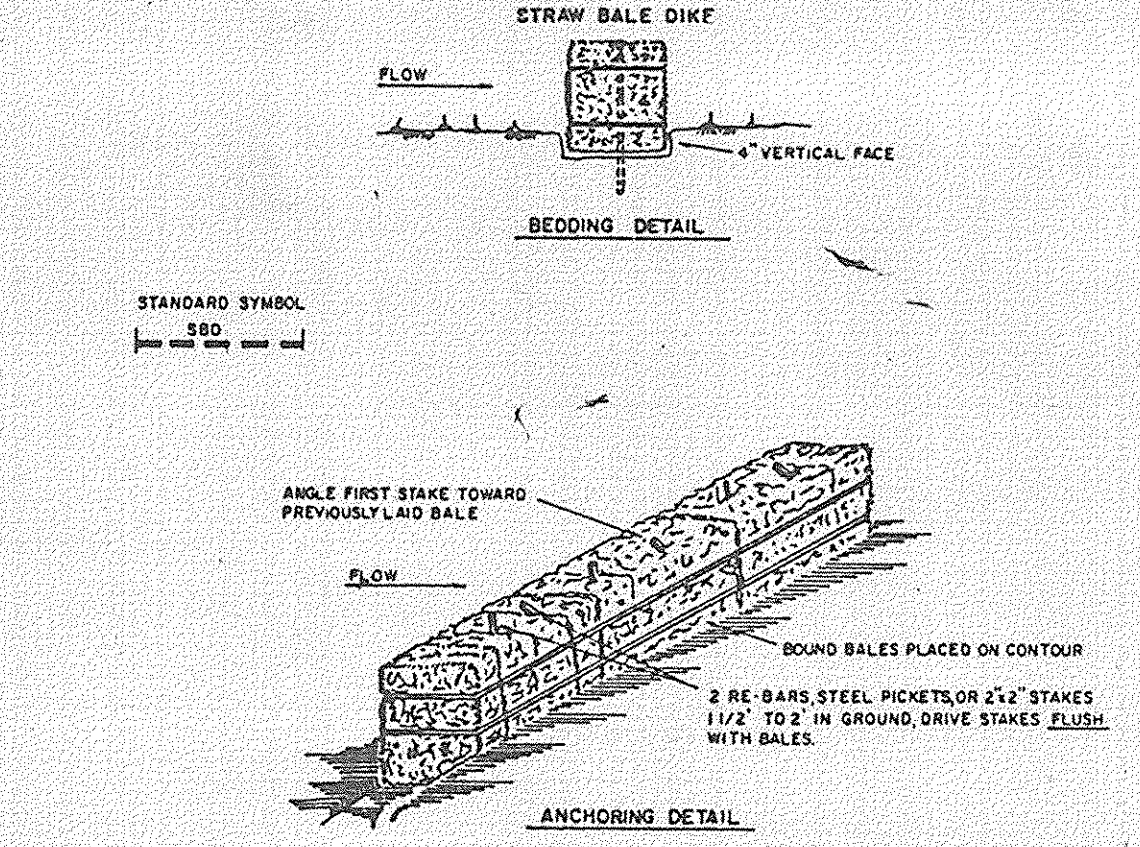
TOTAL AREA OF SITE	199.98	ACRES
AREA DISTURBED	52.750	ACRES
AREA TO BE ROOFED OR PAVED	52.750	ACRES
AREA TO BE VEGETATIVELY STABILIZED	52.480	ACRES
TOTAL CUT	37,000	CU. YDS.
TOTAL FILL	37,000	CU. YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.
- 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.



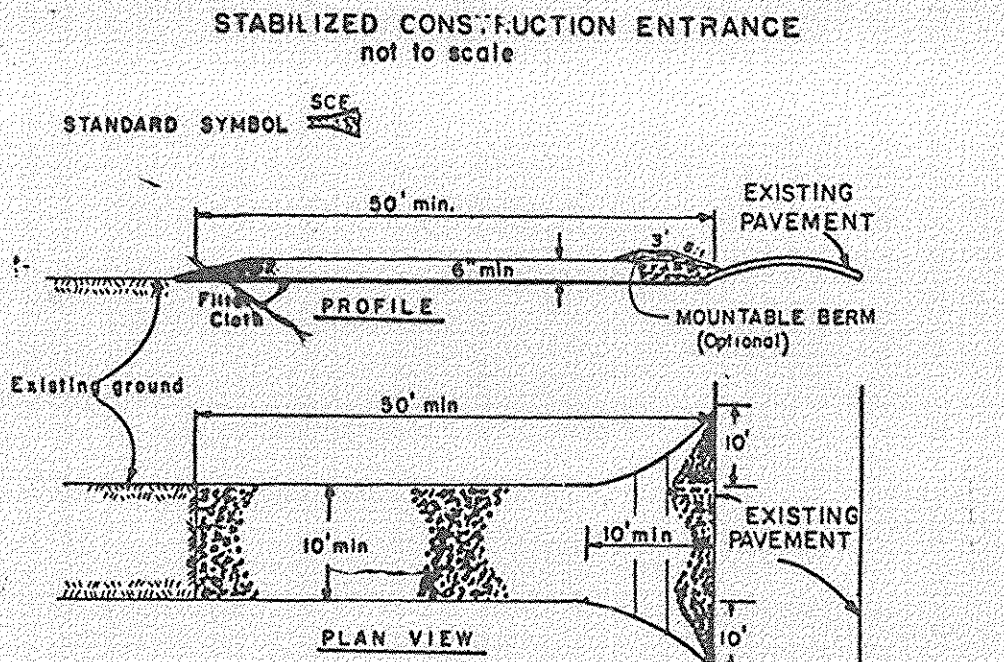
- Curb Inlet Protection.**
- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
  - Place a piece of approved filter cloth (40-50 mesh) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
  - Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
  - Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
  - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
  - Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
  - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
  - Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



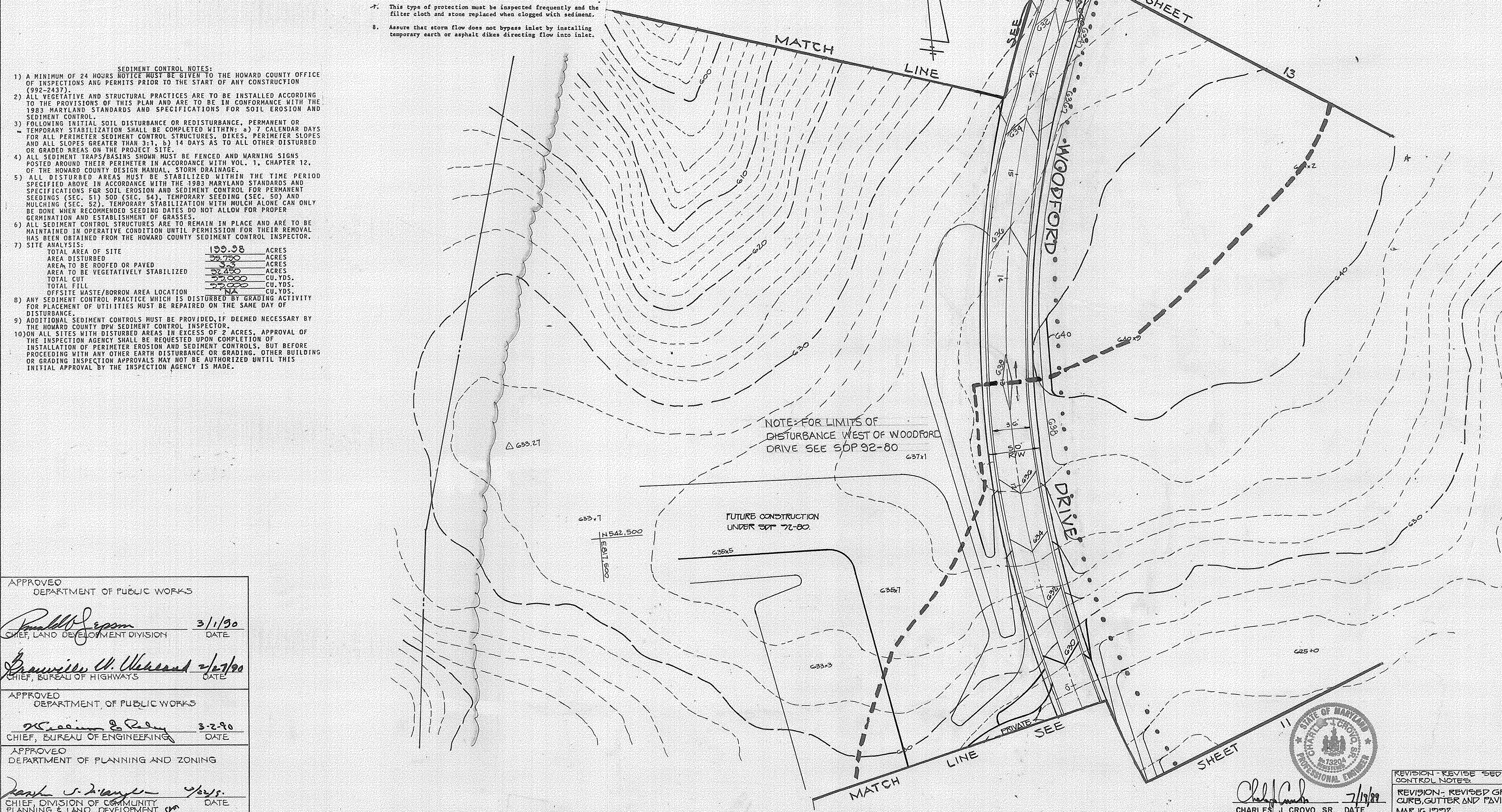
- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:**
- MOVIE WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO MOVIE WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND PEGGED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "MUDS" DEVELOP IN THE SILT FENCE.
- POSTS:** STEEL EITHER T OR U TYPE OR 2" HOLLOWED
- FENCE:** MOVIE WIRE, 16 GA. 6' MAX. TENSILE STRENGTH
- FILTER CLOTH:** FILTER X, 40-50 MESH, STRAIN-LINK TYPED OR APPROVED CLOTH.
- PREFABRICATED UNIT:** GEORGE, ENVIRONMENTAL OR APPROVED EQUIV.



- CONSTRUCTION SPECIFICATIONS:**
- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH DIKS TIGHTLY ADJUTING THE ADJACENT BALES.
  - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (8) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
  - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY Laid BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
  - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OFF THESE STORM FLOW OR DRAINAGE.



- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 3:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent trapping or flow of sediment onto public rights-of-way. This may require periodic clearing of sediment. Additional stone as conditions demand and repair and/or clearing of 6" or more measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto public rights-of-way must be removed immediately.
  - Washing - Trucks shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.



APPROVED  
 DEPARTMENT OF PUBLIC WORKS

*Charles J. Crovo Sr.* 3/1/90  
 CHIEF, LAND DEVELOPMENT DIVISION DATE

*Brian W. Chasland* 2/27/90  
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
 DEPARTMENT OF PUBLIC WORKS

*William E. Reilly* 3-2-90  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
 DEPARTMENT OF PLANNING AND ZONING

*Paul S. Dwyer* 2/27/90  
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT 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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Charles J. Crovo Sr.* 7/19/89  
 SIGNATURE OF ENGINEER DATE

**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

*John S. King V.P.* 7-20-90  
 SIGNATURE OF DEVELOPER DATE

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

*James M. Hester* 2/8/90  
 SOIL CONSERVATION DISTRICT DATE

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

*Robert W. Johnson* 2/7/90  
 DISTRICT APPROVED DATE  
 HOWARD SOIL CONSERVATION DISTRICT

●●● DENOTES LIMITS OF DISTURBANCE

**SPRING VALLEY CHASE**  
 LOTS 1-44  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**SEDIMENT CONTROL PLAN**

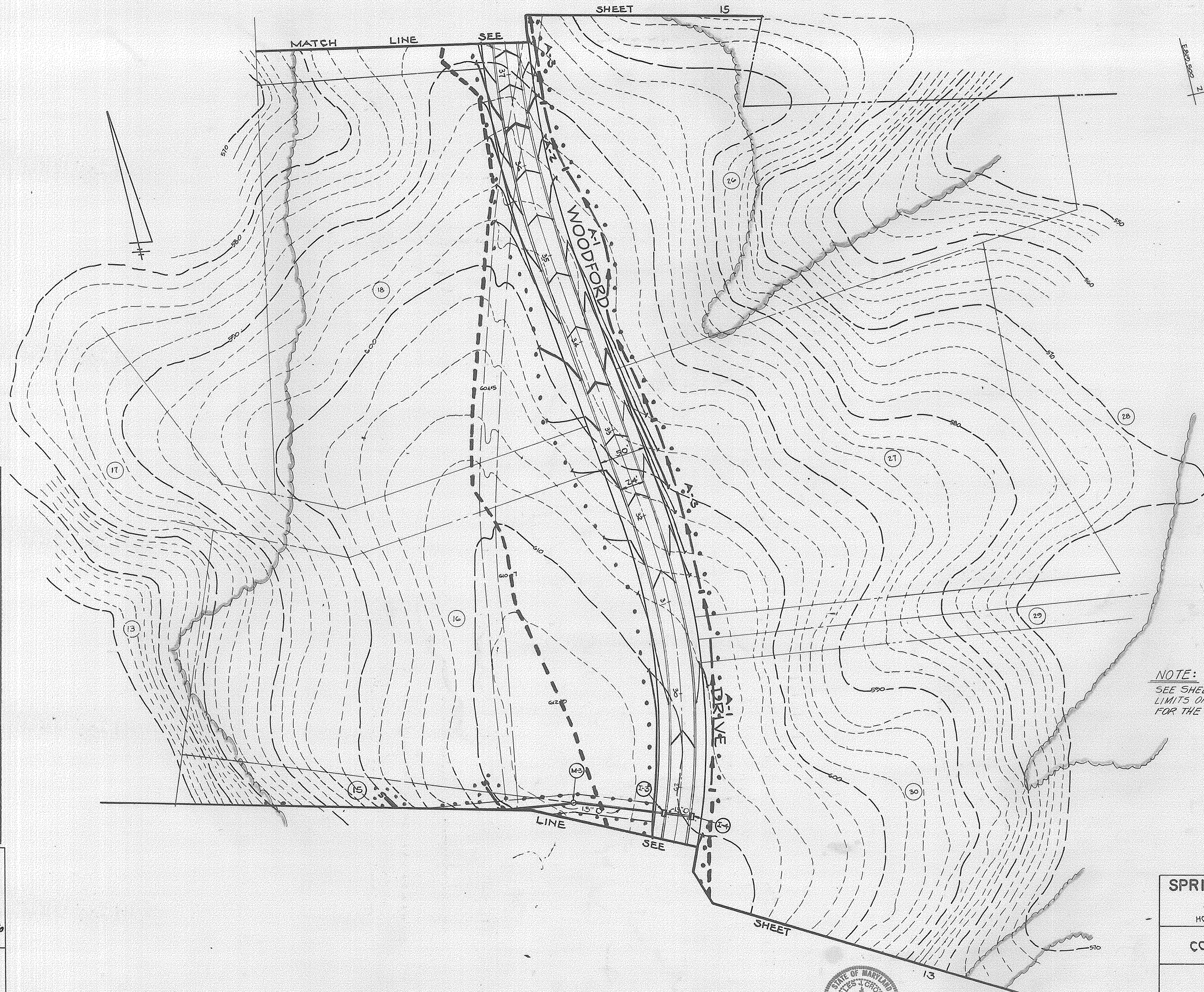
OWNER AND DEVELOPER:  
 ALBEE FARMS  
 12180 ROUTE 99  
 MARRIOTTSVILLE, MARYLAND 21104

SCALE: 1" = 50' DATE: 6-16-89 DWG NO: ZOF 24  
 DES: O.B. ORN: E.M. CK: C.C.

FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE ELLICOTT CITY, MARYLAND 21043

1549





**NOTE:**  
SEE SHEET 19 FOR PLAN PROFILE, LIMITS OF DISTURBANCE AND DETAILS FOR THE EXISTING POND ON LOT 30.

**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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*Charles J. Crovo*  
SIGNATURE OF ENGINEER      7/19/89  
DATE

**DEVELOPER'S CERTIFICATE**  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
*John B. King V.P.*  
SIGNATURE OF DEVELOPER      1-20-89  
DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*Robert W. Ziehm*  
U.S. SOIL CONSERVATION DISTRICT      2/8/90  
DATE

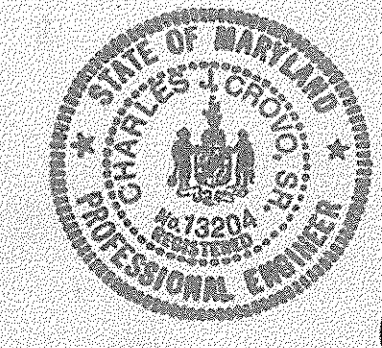
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
APPROVED:  
*Robert W. Ziehm*  
DISTRICT      2-7-90  
HOWARD SOIL CONSERVATION DISTRICT      DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Donald W. Eason*  
CHIEF, LAND DEVELOPMENT DIVISION      3/1/90  
DATE

*Francis W. Wallace*  
CHIEF, BUREAU OF HIGHWAYS      2/27/90  
DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*William E. Raley*  
CHIEF, BUREAU OF ENGINEERING      3-2-90  
DATE

APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
*David J. L. King*  
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT      7/19/89  
DATE



*Charles J. Crovo*  
CHARLES J. CROVO JR.      7/19/89  
DATE

**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**SEDIMENT CONTROL PLAN**

OWNER AND DEVELOPER,  
ALBEE FARMS  
12150 ROUTE 30  
MARIOTT'S VILLE, MARYLAND 21104

SCALE: 1" = 50'      DATE: 6-16-89      DWG. NO. 14 OF 24  
DES: D.B.      DFN: EM      CK: C.C.

**FISHER, COLLINS AND CARTER, INC.**  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVE.      ELLICOTT CITY, MARYLAND 21103

1549





SEE SHEET 17

APPROVED  
DEPARTMENT OF PUBLIC WORKS

*Paul M. Szymon* 3/1/90  
CHIEF, LAND DEVELOPMENT DIVISION DATE

*Drumville W. Woodland* 2/2/90  
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS

*William S. Riley* 3-2-90  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
DEPARTMENT OF PLANNING AND ZONING

*Frank J. Langley* 2/2/90  
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

(MARYLAND ROUTE 99)

**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**DRAINAGE AREA MAP**

OWNER AND DEVELOPER  
ALBEE FARMS  
12150 ROUTE 33  
MARIOTTSVILLE, MARYLAND 21104

SCALE: 100' DATE: 6-16-89 DWS: NO. 16 OF 24  
DES. D.B. DRN: E.M. CK.: C.C.

FISHER, COLLINS AND CARTER, INC.  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVE. ELICOTT CITY, MARYLAND 21043

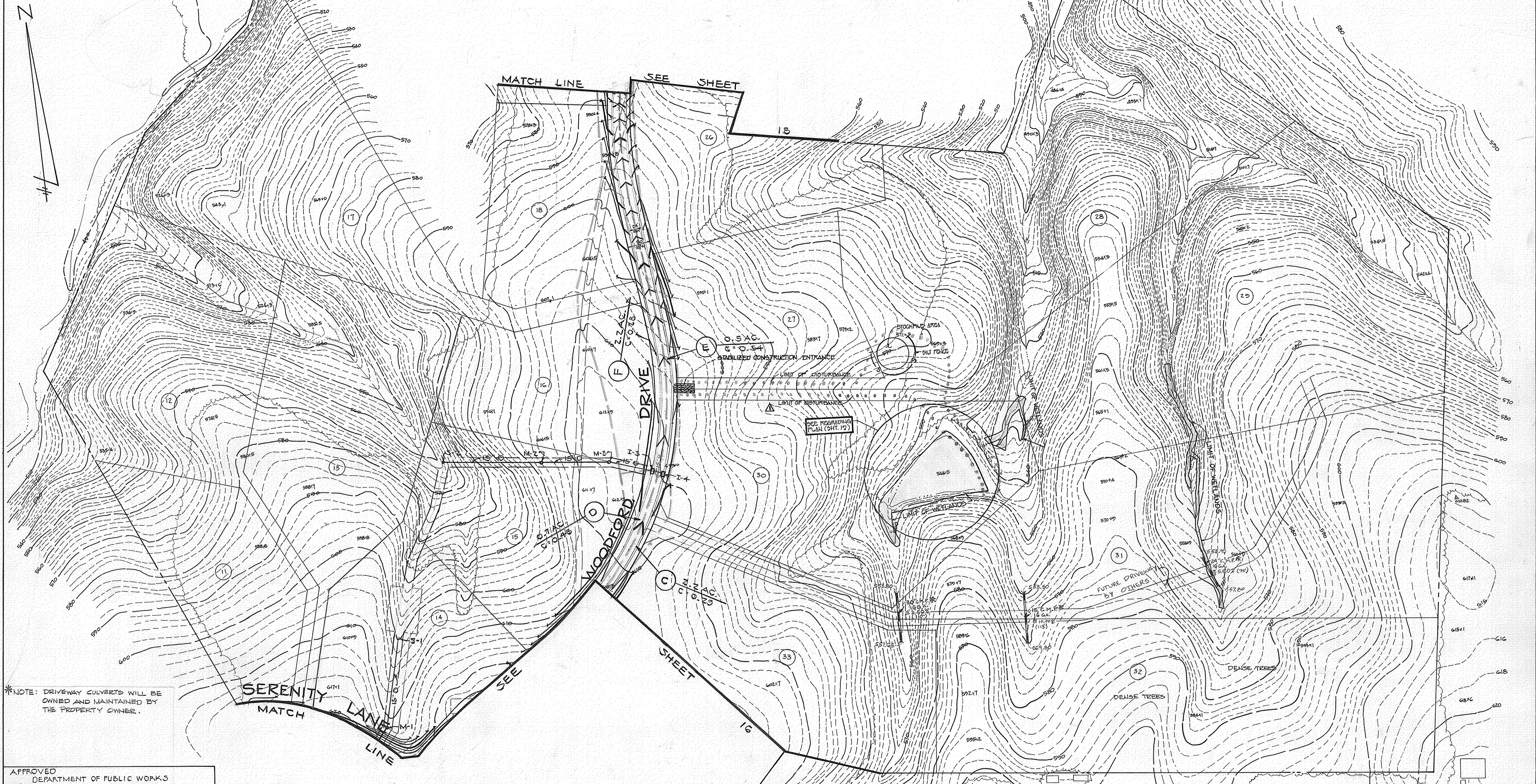
REVISION: REMOVED LOTS 36-44 AND ADDED MARCH 10, 1992 LOT 10.  
REVISION: REVISED GRADING, CURB, GUTTER & INLETS ALONG WOODFORD DR.

*Charles J. Czerny, Sr.* 7/19/89  
DATE

1549



REVISION	DATE	NO.
REVISE LIMIT OF DISTURBANCE, CONSTRUCTION ENTR.	9-19-89	1



\*NOTE: DRIVEWAY CULVERTS WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.

APPROVED  
DEPARTMENT OF PUBLIC WORKS

*Donald J. Soren* 3/1/90  
CHIEF, LAND DEVELOPMENT DIVISION DATE

*Franklin W. Wilcox* 2/27/90  
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS

*William E. Riley* 3-2-90  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
DEPARTMENT OF PLANNING AND ZONING

*Frank J. Z. [unclear]* 7/2/90  
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

NOTE: THE EXISTING POND ON LOT 30 WILL BE PRIVATELY OWNED AND MAINTAINED AND IS NOT THE RESPONSIBILITY OF HOWARD COUNTY

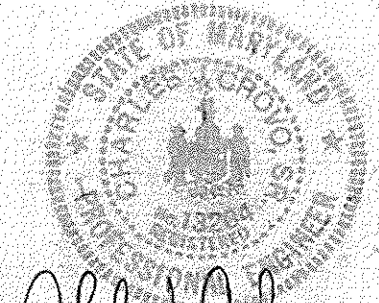
**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**DRAINAGE AREA MAP**

OWNER AND DEVELOPER  
ALBEE FARMS  
2150 ROUTE 20  
MARTINSVILLE, MARYLAND 21104

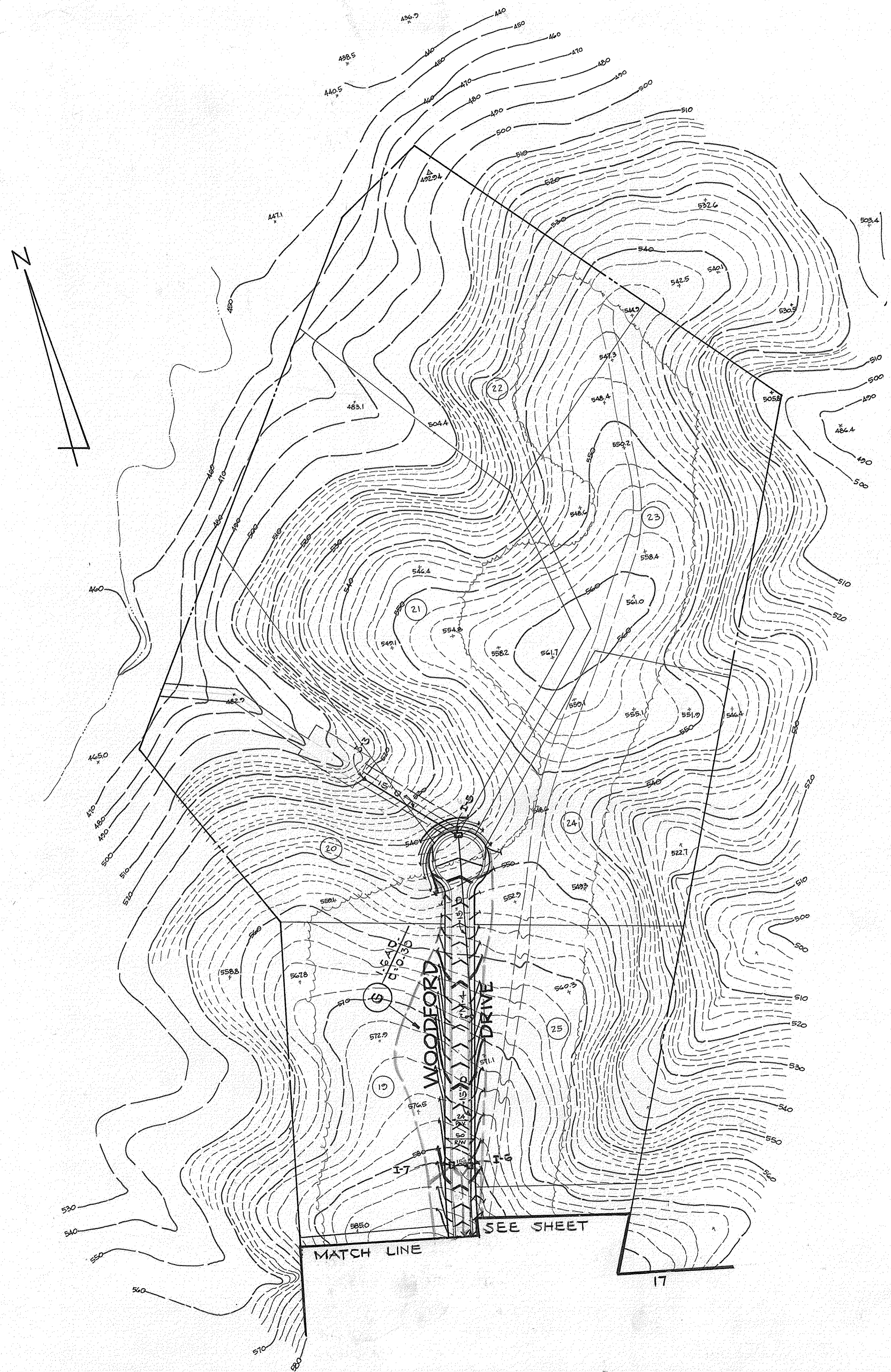
SCALE: 1" = 100' DATE: 6-16-89 DWG. NO. 17 OF 24  
DES: D.B. DRN: E.M. CK: C.C.

**FISHER, COLLINS AND CARTER, INC.**  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21103



*Charles J. Grovo, Sr.*  
CHARLES J. GROVO, SR. 7/19/89  
DATE

1549



APPROVED  
DEPARTMENT OF PUBLIC WORKS

*Donald J. Sepp* 3/1/90  
CHIEF, LAND DEVELOPMENT DIVISION DATE

CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS

*William R. R...* 3-2-90  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
DEPARTMENT OF PLANNING AND ZONING

*Mark S. ...* 3/2/90  
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

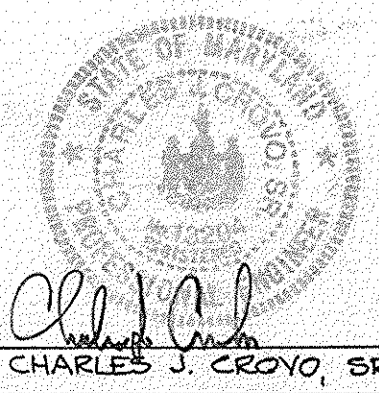
**DRAINAGE AREA MAP**

OWNER AND DEVELOPER:  
ALBEE FARMS  
17150 ROUTE 30  
MARIOTTVILLE, MARYLAND 21104

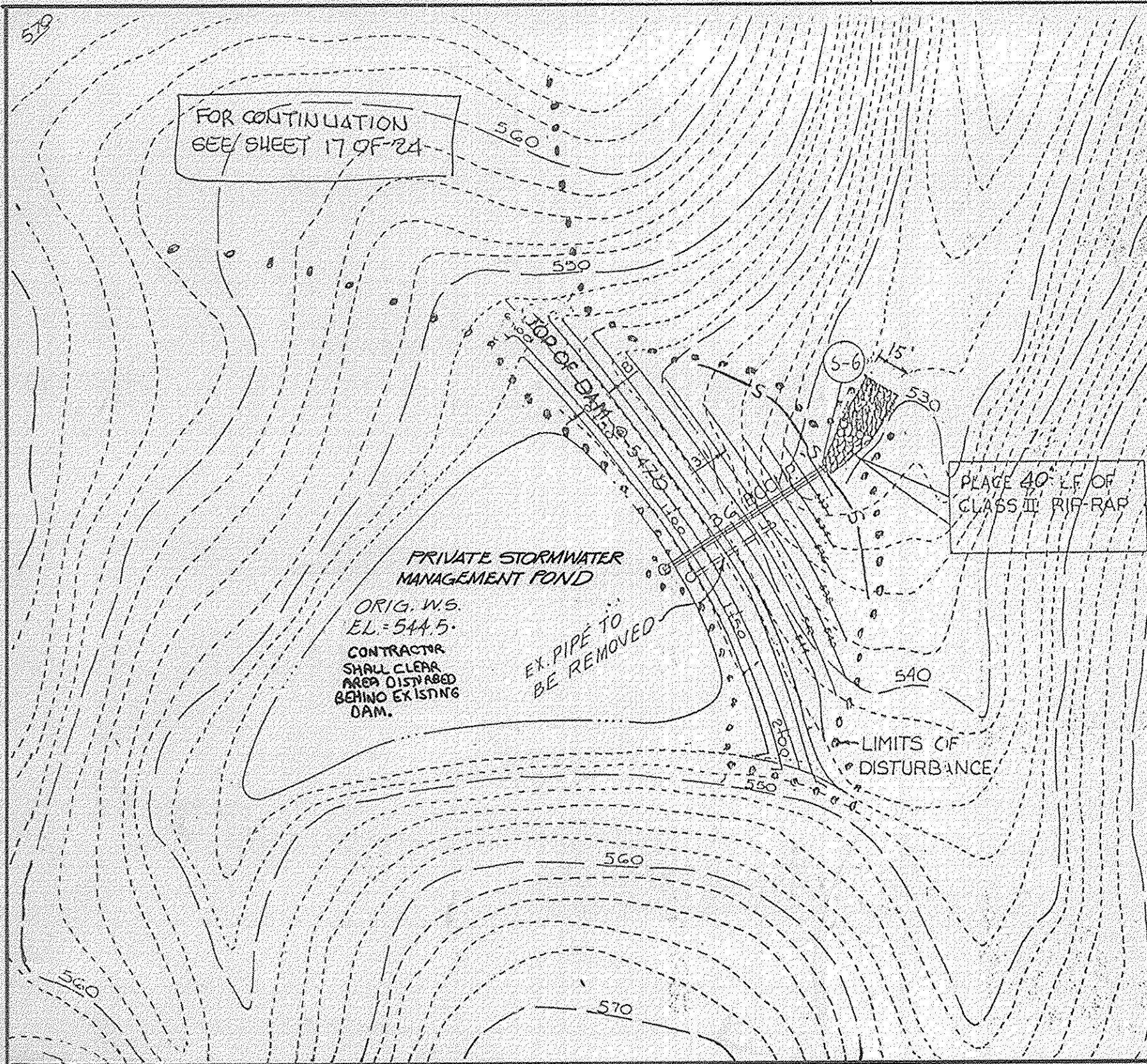
SCALE: 1"=100' DATE: 6-16-85 DWG. NO. 15 OF 24  
DES: D.E. DRN: E.M. CK: C.C.

**FISHER, COLLINS AND CARTER, INC.**  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

*Charles J. Crovo, Sr.* 7/1/89  
CHARLES J. CROVO, SR. DATE



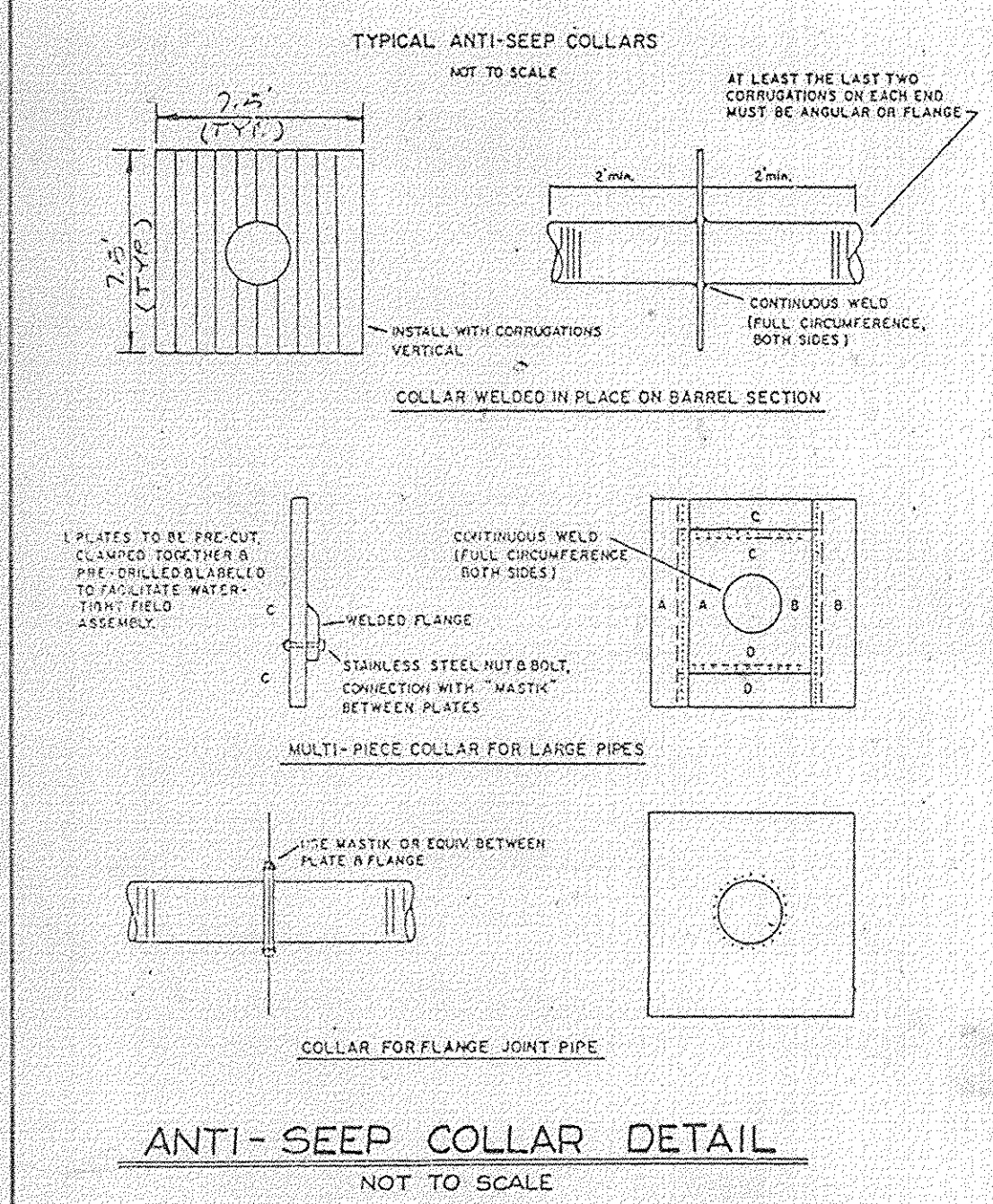
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PLAN SCALE: 1" = 30'

OPERATION, MAINTENANCE AND INSPECTION

Inspection of the pond(s) shown hereon shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, SCS "Standards and Specifications for Ponds" (MD-378). The pond owner(s) and any heirs, successors, or assigns shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.



FISHER, COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
8388 COURT AVENUE  
ELLCOTT CITY, MARYLAND 21043  
TELEPHONE: (410) 461-2855

**SPECIFICATIONS**  
These specifications are prepared for all ponds when the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications shall be the most recent version.

**Site Preparation**  
Areas designated for borrow areas, embankment, and structure works shall be cleared, grubbed and stumped or felled. All trees, vegetation, rocks and other obstructions shall be removed. Channel banks and sharp berms shall be graded to a maximum of 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, stumps, rocks and other obstructions. Material areas shall be designated on the plans. Trees, brush and stumps shall be cut to approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inner structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When possible, a suitable quantity of local fill shall be stockpiled in a suitable location for use on the embankment and other designated areas.

**Fill**  
Material: The fill material shall be taken from approved designated borrow areas. It shall be free of rocks, stumps, wood, sticks, stones greater than 6", boulders or other objectionable material. Fill material shall be placed in a uniform layer of 4" to 6" and compacted to conform to Unified Soil Classification GC, SC, CL or CU. Consideration may be given to the use of other materials in the embankment design and construction are approved by a geotechnical engineer.

**Placement**  
Areas on which fill is to be placed shall be scarified, graded and compacted. The fill shall be placed in a maximum 8 inch thick (before compaction) layers which will be compacted to the required length of the fill. The most permeable borrow material shall be placed in the permeable portions of the embankment. The proposed embankment shall be installed concurrently with fill placement and not seaward into the embankment.

**Compaction**  
The movement of the hauling and spreading equipment over the fill shall be restricted so that the entire surface of each fill shall be traveled by the hauler or spreader. The compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that it formed into a ball and will not crumble yet not so wet that water can be squeezed out.

Where minimum required density is specified, shall not be less than 95% maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain this density, and to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

**Cut of Fills**  
The cut of fills shall be excavated into impervious material along or parallel to the outside of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1:1 unless otherwise specified. The bedding shall be compacted with compaction equipment, roller, or hand tampers to assure maximum density and minimum permeability.

**Structure Bedding**  
Bedding adjacent to pipes or structures shall be of the type and quality conforming to that specified for the type of material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. This material shall be placed completely all spaces under and adjacent to the pipe. At no time during the bedding operation shall the equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a completed fill of 2' or greater over the structure or pipe.

**Pipe Details**  
All pipes shall be installed in cross section.

**Consumer Metal Pipe**  
All of the following criteria shall apply for consumer metal pipe:

**Reinforced Concrete Pipe**  
All of the following criteria shall apply for reinforced concrete pipe:

- Materials - Reinforced concrete pipe shall have ball and socket joints with rubber gaskets and shall equal or exceed ASTM Designation C-361.
- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. The bedding shall consist of high strength concrete placed under the pipe and on the sides of the pipe to a minimum of 10% of its outside diameter with a minimum thickness of 6 inches, or as shown on the drawings.
- Laying pipe - Ball and socket pipe shall be placed with the ball end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed and all spaces under the pipe filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.
- Backfilling shall conform to "Structure Bedding".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

**Steel Pipe**  
All of the following criteria shall apply for steel pipe:

- Materials - Steel pipe shall be galvanized and fully annealed. Steel pipe shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any galvanized coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mils) from end to end. The following coatings or an approved equal may be used: Nelex, Plast-Coat, Eaco-Coat, and Best-Culvert. Coated concrete pipe shall meet the requirements of AASHTO M-243 and M-244.
- Materials - Aluminum Coated Steel Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-190 or M-241 with watertight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized pipe shall be replaced with cold applied bituminous coating compound.
- Materials - Aluminum Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-190 or M-241 with watertight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized pipe shall be replaced with cold applied bituminous coating compound.
- Coupling bands, anti-seep collars, and sections, etc. must be composed of the same material as the pipe. Materials used for anti-seep collars shall be made of a material with a minimum thickness of 1/2 inch.
- Connections - All connections with pipe must be completely watertight. The drain pipe or barrel connection to the riser shall be welded at around the pipe. The pipe shall be secured under all anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Drilling bars are not considered to be watertight.

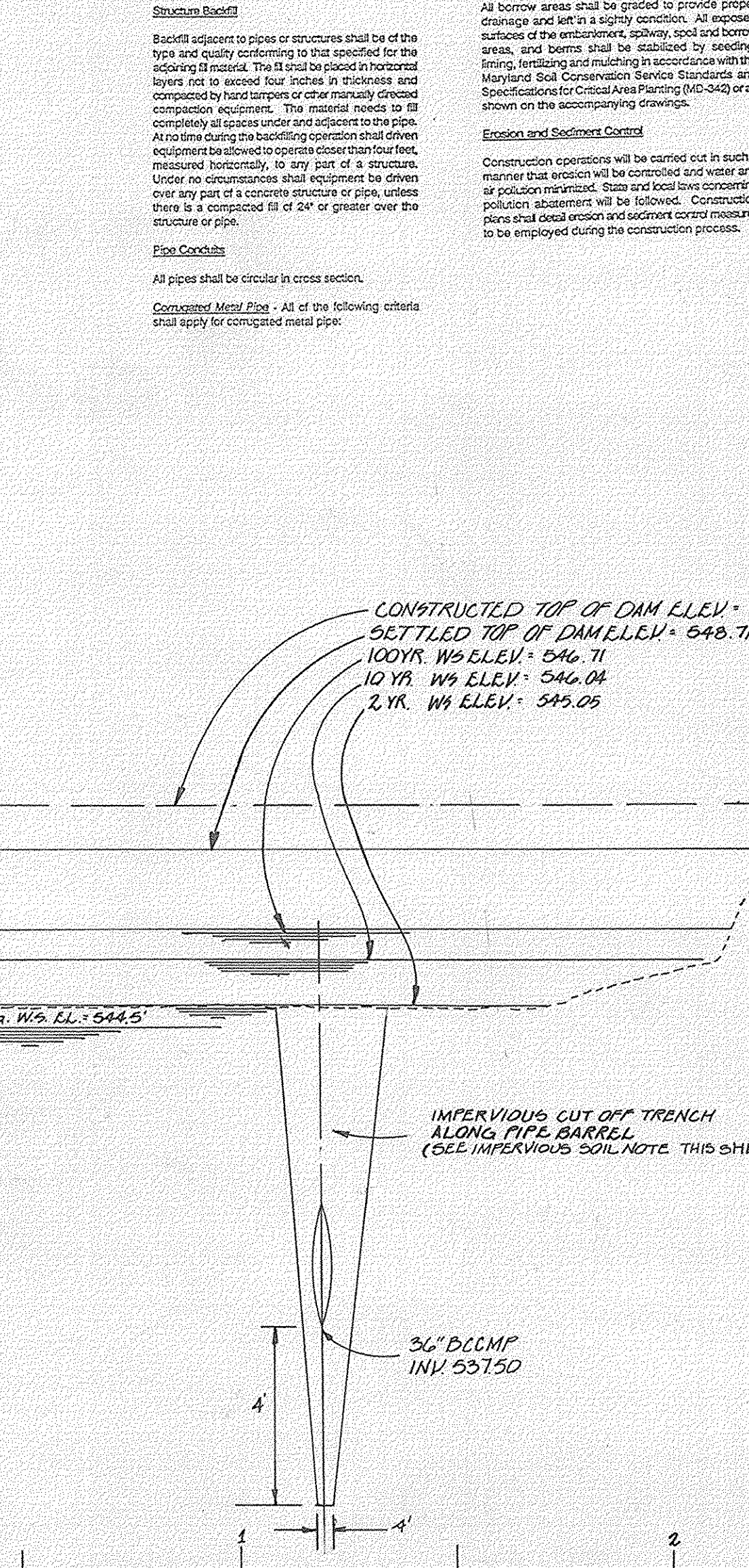
All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be finished on an oblique number of connections to accommodate the band width. The following type connections shall be used: flange both ends of the pipe, a 1 1/2" wide standard lip pipe with 1/2" wide lip, or 1/2" wide standard lip pipe with 1/2" wide lip. All connections shall have a minimum diameter of 1/2" greater than the connection depth. Pipes 24" diameter and larger shall be connected by 24" long annual compressed band using rods and nuts. A 1/2" wide by 20" thick closed cell cellular neoprene gasket will be installed on the end of each pipe for a total of 24".

Heavily corrugated pipe shall have either continuously welded seams or have lock seams with internal coating or a neoprene bead.

- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable sand compacted to provide adequate support.
- Backfilling shall conform to "Structure Bedding".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

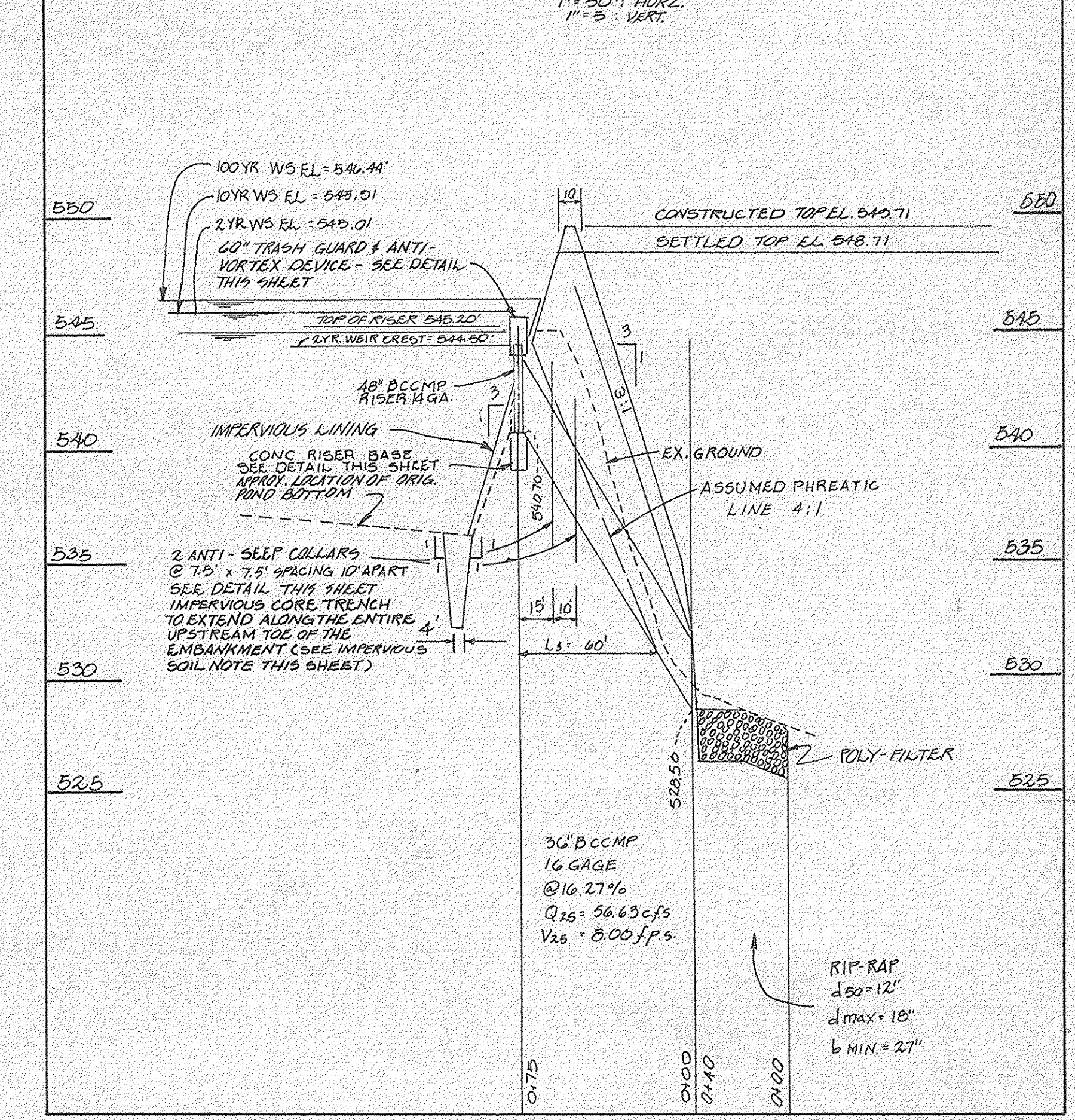
**Reinforced Concrete Pipe**  
All of the following criteria shall apply for reinforced concrete pipe:

- Materials - Reinforced concrete pipe shall have ball and socket joints with rubber gaskets and shall equal or exceed ASTM Designation C-361.
- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. The bedding shall consist of high strength concrete placed under the pipe and on the sides of the pipe to a minimum of 10% of its outside diameter with a minimum thickness of 6 inches, or as shown on the drawings.
- Laying pipe - Ball and socket pipe shall be placed with the ball end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed and all spaces under the pipe filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.
- Backfilling shall conform to "Structure Bedding".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

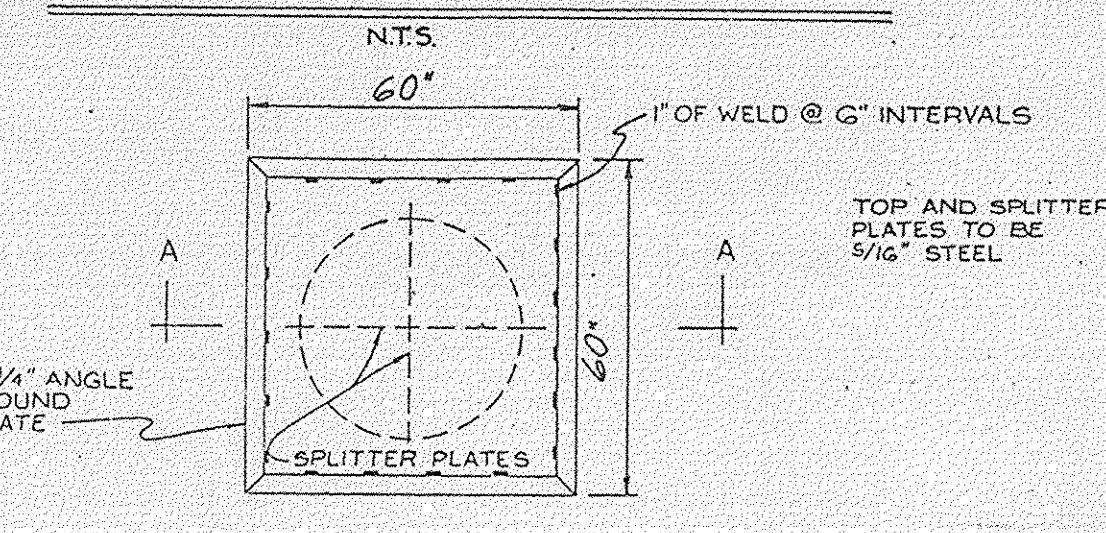


PROFILE ALONG & OF EMBANKMENT SCALE: 1" = 30' VERT.

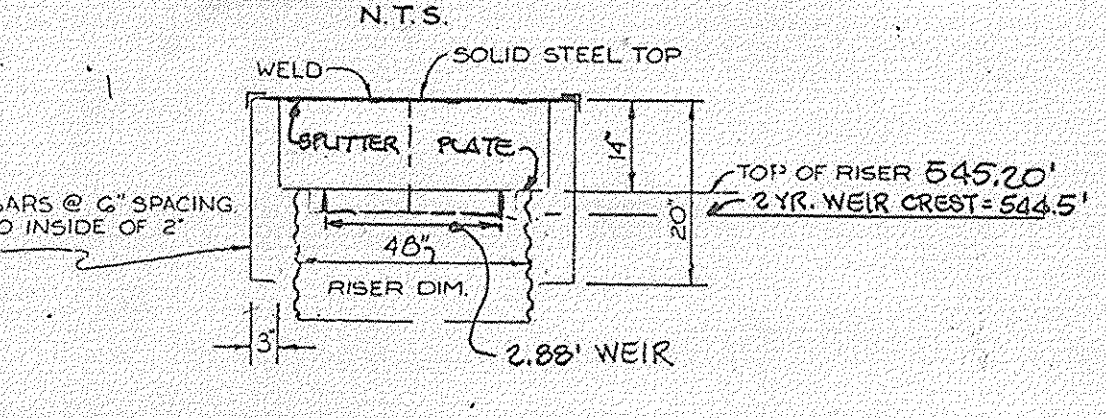
PROFILE THRU PRINCIPLE SPILLWAY



FABRICATION DETAILS FOR TRASH GUARD-ANTI VORTEX ASSEMBLY FOR RISER

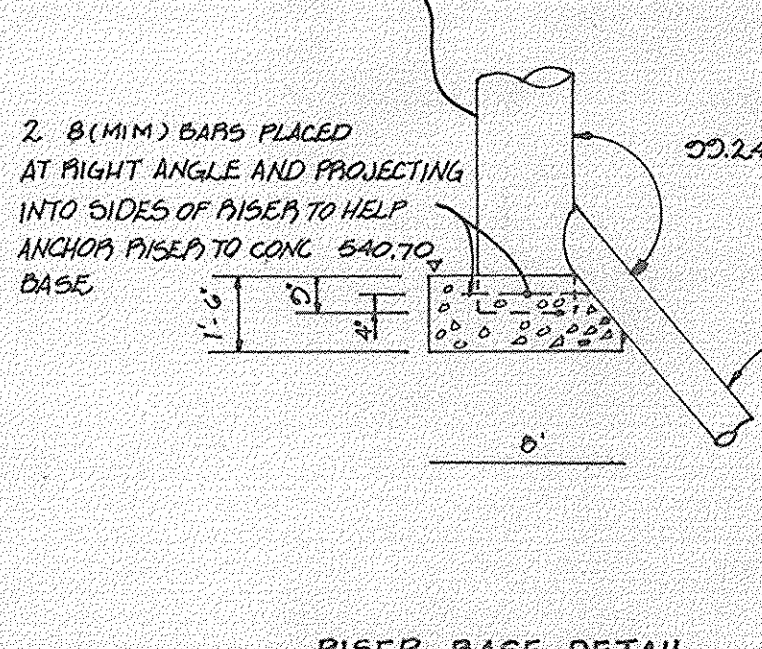


PLAN VIEW OF TRASH GUARD ANTI VORTEX DEVICE



**IMPERVIOUS SOIL NOTE:**  
ALL IMPERVIOUS SOIL IS TO BE OBTAINED FROM AN AREA WITH AN APPROVED SEDIMENT CONTROL PLAN.  
ALL IMPERVIOUS SOIL MUST BE CERTIFIED IMPERVIOUS BY A GEO-TECHNICAL ENGINEER PRIOR TO PLACEMENT.

**PERMANENT SEEDING NOTES:**  
APPLY TO GRADED OR CLEARED AREA SOIL SUBJECT TO FURTHER DISTRIBUCTION WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS, BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.  
SOIL MEASUREMENT: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:  
(1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.  
HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL, AT TIME OF SEEDING.  
APPLY 400 LBS PER ACRE 10-10-10 FERTILIZER (4 LBS/1000 SQ. FT.) BEFORE SEEDING.  
(2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 100 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.  
SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS, KENTUCKY 31 TALL FESCUE PER ACRE (1.0 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE, AND 20 LBS PER ACRE (0.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WILL ANCHORED STRAW MULCH. OR OPTION (2) 2 TONS PER ACRE (2.0 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALL/1000 SQ. FT.) OF ENHANCED ASPHALT ON FLAT AREAS, OR SLOPES 8 FEET OR STEEPER. USE 348 GALLONS PER ACRE (3.48 GALL/1000 SQ. FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.



**NOTES:**  
1. THE CONCRETE BASE SHALL BE POURED IN SUCH A MANNER TO INSURE THAT THE CONCRETE FILLS THE BOTTOM OF THE RISER TO THE INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE.  
2. WITH ALUMINUM OR ALUMINIZED PIPE, THE EMBEDDED SECTION MUST BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.  
3. RISER BARS MAY BE SIZED AS COMPUTED USING FLOATATION WITH A FACTOR OF SAFETY OF 1.2.

NO.	DATE	DESCRIPTION
1	8-8-74	REPLACED SHEET "1" OF "2" WITH THIS SHEET
		REVISIONS

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

**DEVELOPER'S CERTIFICATE**  
I HEREBY 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. THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.  
*Richard W. Johnson, President*  
SIGNATURE OF DEVELOPER: *ALBEE FARMS*  
142 PATUXENT LAND CO.  
DATE: 8-23-94

**ENGINEER'S CERTIFICATE**  
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.  
*John E. Johnson*  
SIGNATURE OF ENGINEER: *John E. Johnson*  
DATE: 8/23/94

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE SPECIFIC REQUIREMENT FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
*John E. Johnson*  
SIGNATURE OF ENGINEER: *John E. Johnson*  
U.S. SOIL CONSERVATION SERVICE  
DATE: 8/23/94  
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*John E. Johnson*  
SIGNATURE OF DEVELOPER: *John E. Johnson*  
HOWARD SOIL CONSERVATION DISTRICT  
DATE: 8/30/94  
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*John E. Johnson*  
SIGNATURE: *John E. Johnson*  
DATE: 9/20/94  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
APPROVED: DEPARTMENT OF PUBLIC WORKS  
*John E. Johnson*  
SIGNATURE: *John E. Johnson*  
DATE: 9/16/94  
CHIEF, DIVISION OF PUBLIC WORKS  
APPROVED: DEPARTMENT OF PUBLIC WORKS  
*John E. Johnson*  
SIGNATURE: *John E. Johnson*  
DATE: 9/16/94  
CHIEF, LAND DEVELOPMENT DIVISION

- NOTE**
- THE EXISTING POND IS DESIGNED BY SCS.
  - ALL PIPE JOINTS SHALL BE WATERTIGHT.
  - HAZARD CLASS: A
  - ALL WELDS SHALL BE CONTINUOUS AROUND DIAMETER OF PIPE.
  - THE EXISTING ROOT MAT SHALL BE REMOVED FROM THE EXISTING EMBANKMENT PRIOR TO PLACING FILL.
  - SCARIFY AND STEEP SLOPE AS NEW FILL IS BEING PLACED AGAINST EXISTING SLOPE.
  - NO SLOPES SHALL BE STEEPER THAN 2:1 EXCEPT EXCAVATIONS WHICH SHALL CONFORM TO THE LIMITS SHOWN OR THOSE ALLOWED BY SAFETY STANDARDS EXISTING AT THE TIME OF CONSTRUCTION.

- SEQUENCE OF CONSTRUCTION**
- OBTAIN A GRADING PERMIT.
  - INSTALL SELF FENCE.
  - REMOVE ROOT MAT FROM EXISTING EMBANKMENT PRIOR TO PLACING FILL.
  - INSTALL THE CUT-OFF AND CORE TRENCHES, PER SYSTEM.
  - INSTALL BARREL PIPE AND APPURTENANCES.
  - PLACE STRUCTURAL FILL WITH IMPERVIOUS LINING, PER SYSTEM.
  - STABILIZE ALL DISTURBED AREAS PER PERMANENT SEEDING NOTES.
  - WHEN PERMISSION IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT CONTROL DEVICES.

**NOTE TO CONTRACTOR**  
A GEOTECHNICAL ENGINEER IS TO BE PRESENT DURING THE CONSTRUCTION OF THE RIP-RAP PILOT CHANNEL IN ORDER TO INSURE THAT THE CONSTRUCTION OF THE EMBANKMENT IS STABLE AND NOT SUBJECT TO FAILURE OR EROSION.

**PERMANENT SEEDING NOTES:**  
APPLY TO GRADED OR CLEARED AREA SOIL SUBJECT TO FURTHER DISTRIBUCTION WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS, BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.  
SOIL MEASUREMENT: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:  
(1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.  
HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL, AT TIME OF SEEDING.  
APPLY 400 LBS PER ACRE 10-10-10 FERTILIZER (4 LBS/1000 SQ. FT.) BEFORE SEEDING.  
(2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 100 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.  
SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS, KENTUCKY 31 TALL FESCUE PER ACRE (1.0 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE, AND 20 LBS PER ACRE (0.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WILL ANCHORED STRAW MULCH. OR OPTION (2) 2 TONS PER ACRE (2.0 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALL/1000 SQ. FT.) OF ENHANCED ASPHALT ON FLAT AREAS, OR SLOPES 8 FEET OR STEEPER. USE 348 GALLONS PER ACRE (3.48 GALL/1000 SQ. FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

**SPRING VALLEY CHASE**  
LOTS 1-44  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**PRIVATE STORMWATER MANAGEMENT POND AND DETAILS**

OWNER AND DEVELOPER  
ALBEE FARMS  
12150 ROUTE 99  
MARRIOTTSVILLE, MARYLAND 21104

SCALE: AS SHOWN | DATE: 8-16-74 | DWG. NO. 19 OF 24  
DES. C.M. | DRN. DLH | CK. C.C.

FISHER, COLLINS AND CARTER, INC.  
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