

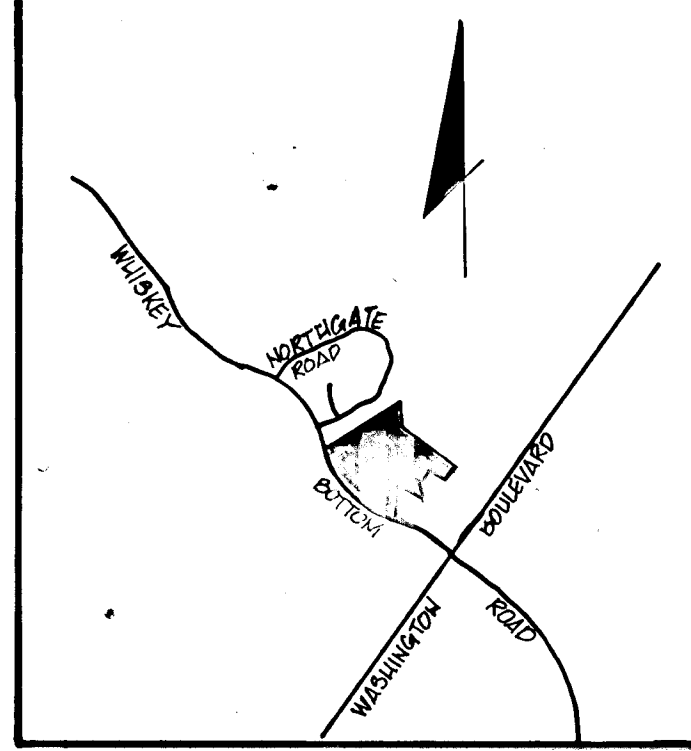
Curve Data Chart

NO.	RADIUS	LENGTH	TANGENT	CHORD BEARING & DISTANCE	DELTA
1	748.04	420.84	209.37'	S40°23'44.9"E 425.22'	32°08'28"

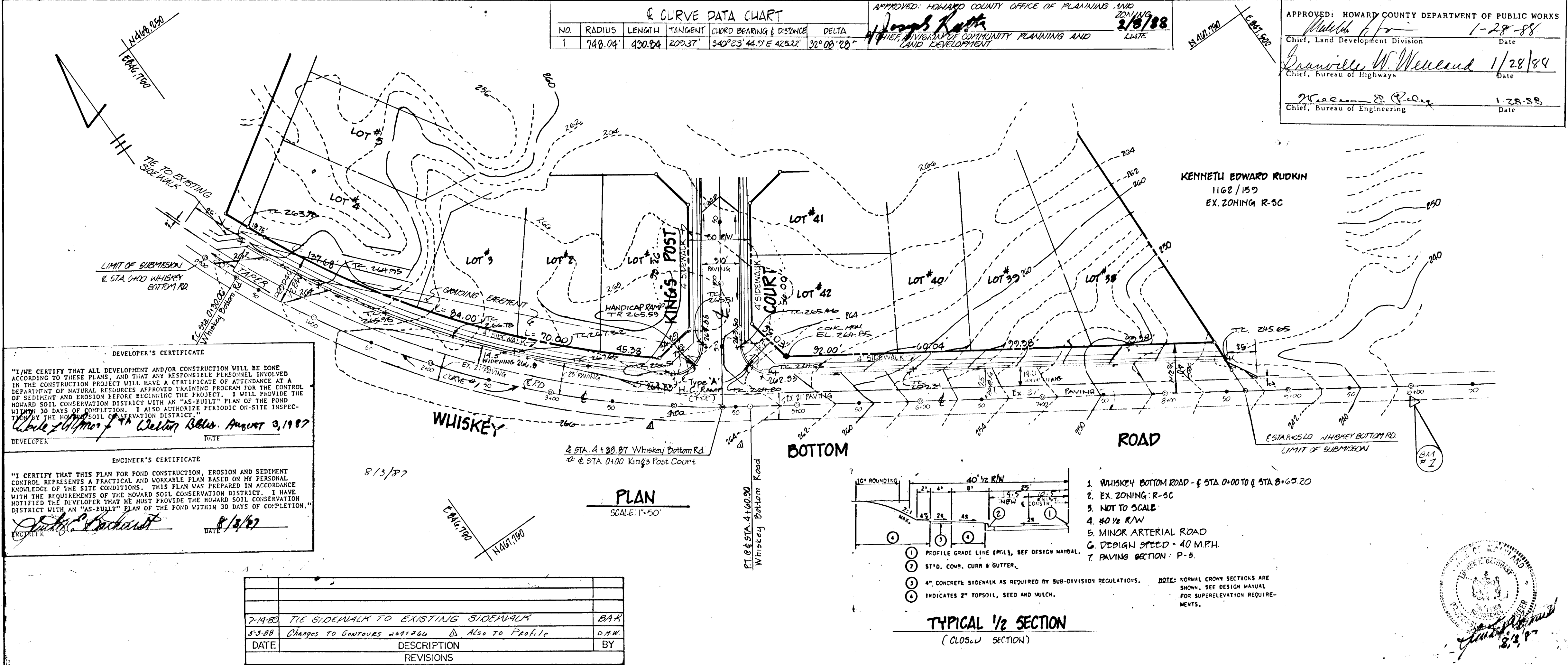
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Joseph K. Kott
 Chief, Planning and Zoning
 1/8/88

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter G. ...
 Chief, Land Development Division
 1-28-88
Braville W. ...
 Chief, Bureau of Highways
 1/28/84
... P.O.
 Chief, Bureau of Engineering
 1-28-88

- NOTES:**
- FOR GENERAL NOTES SEE SHEET T OF T.
 - FOR PAVING & CURB DETAILS SEE SHEET T OF T.
 - FOR GRADING & GUTTER CONTROL AND STORM DRAIN PLANS SEE SHEET 4 OF T.



VICINITY MAP
 SCALE: 1" = 1600'



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 AS A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Walter G. ...
 DATE: August 3, 1987

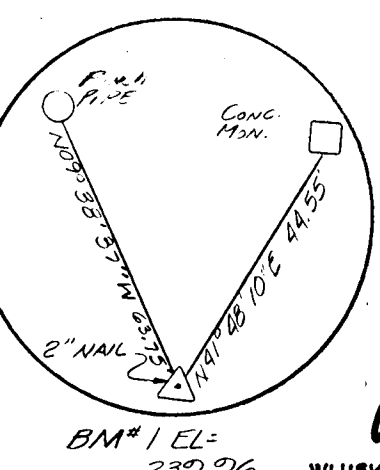
ENGINEER'S CERTIFICATE

"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."

... P.O.
 DATE: 8/14/87

REVISIONS

DATE	DESCRIPTION	BY
7-14-88	TIE SIDEWALK TO EXISTING SIDEWALK	BAK
5-3-88	Changes to Outcrops 2481260 Δ Also to Profile	D.A.M.

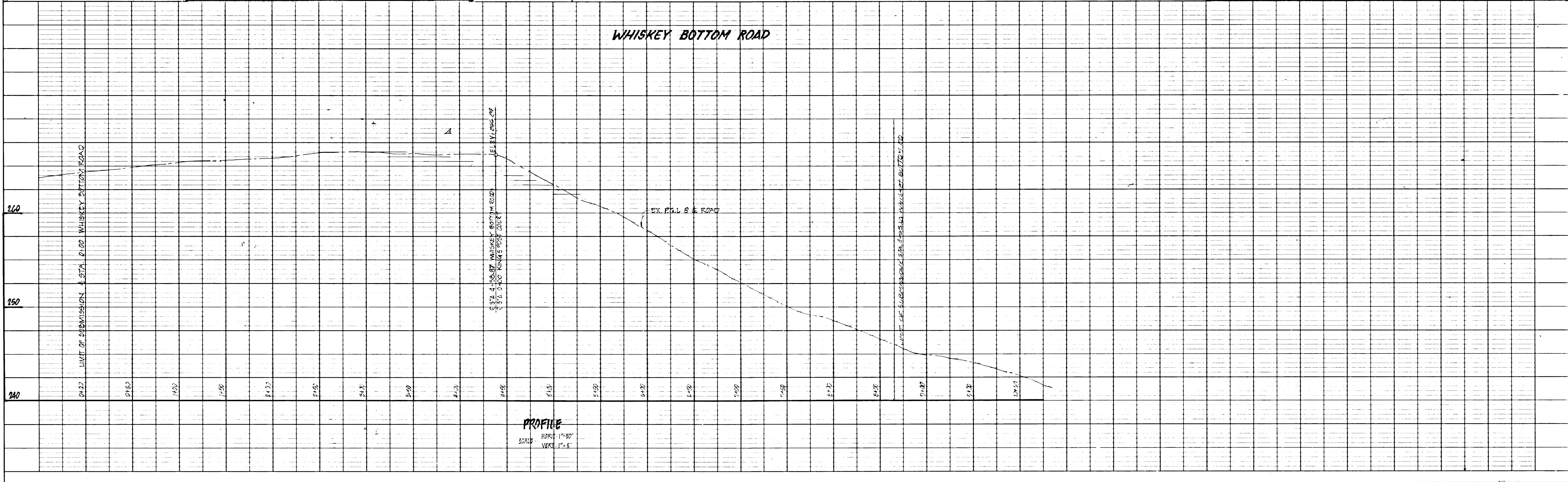


OWNERS
 WHISKEY BOTTOM JOINT VENTURE
 9101 CHERRY TREE LANE
 SUITE 108
 LAUREL, MD. 20708

DEVELOPER
 WESTON BUILDERS
 9101 CHERRY TREE LANE
 SUITE 108
 LAUREL, MD. 20708

TITLE: ROAD CONSTRUCTION PLAN
PROJECT: STRATFORD DOWN'S WHISKEY BOTTOM ROAD
 LOCATION: 6 TH ELECTION DISTRICT TAX MAP 50.847 HOWARD CO. MD.
 SCALE: AS SHOWN DESIGNED BY: J.T.M. DRAWN BY: R.B.M. CHECKED BY: C.B. DATE: JULY, 1987
 FIELD BOOK: PAGE NO.: JOB NO.: 046 DRAWING NO.: 1 OF 7

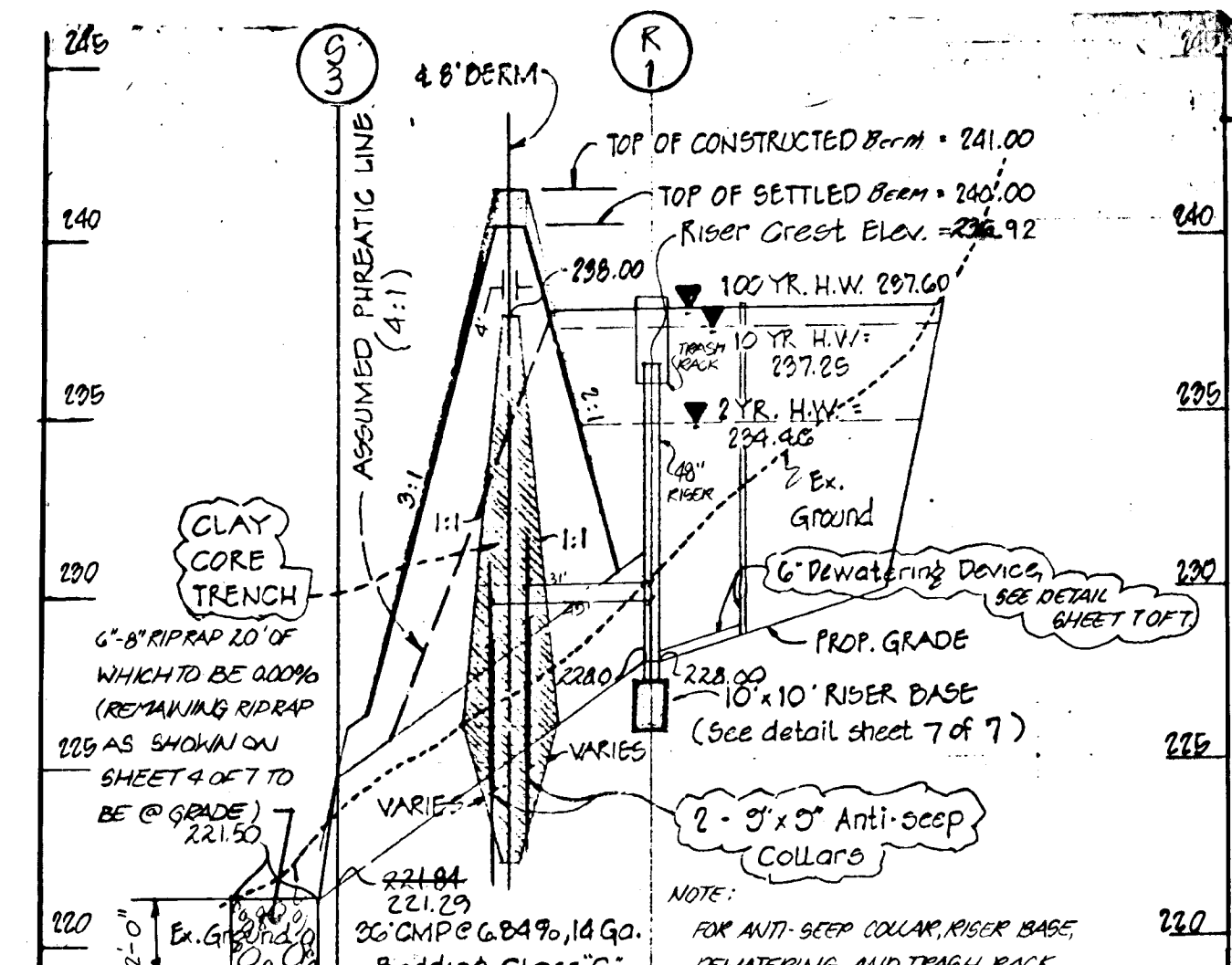
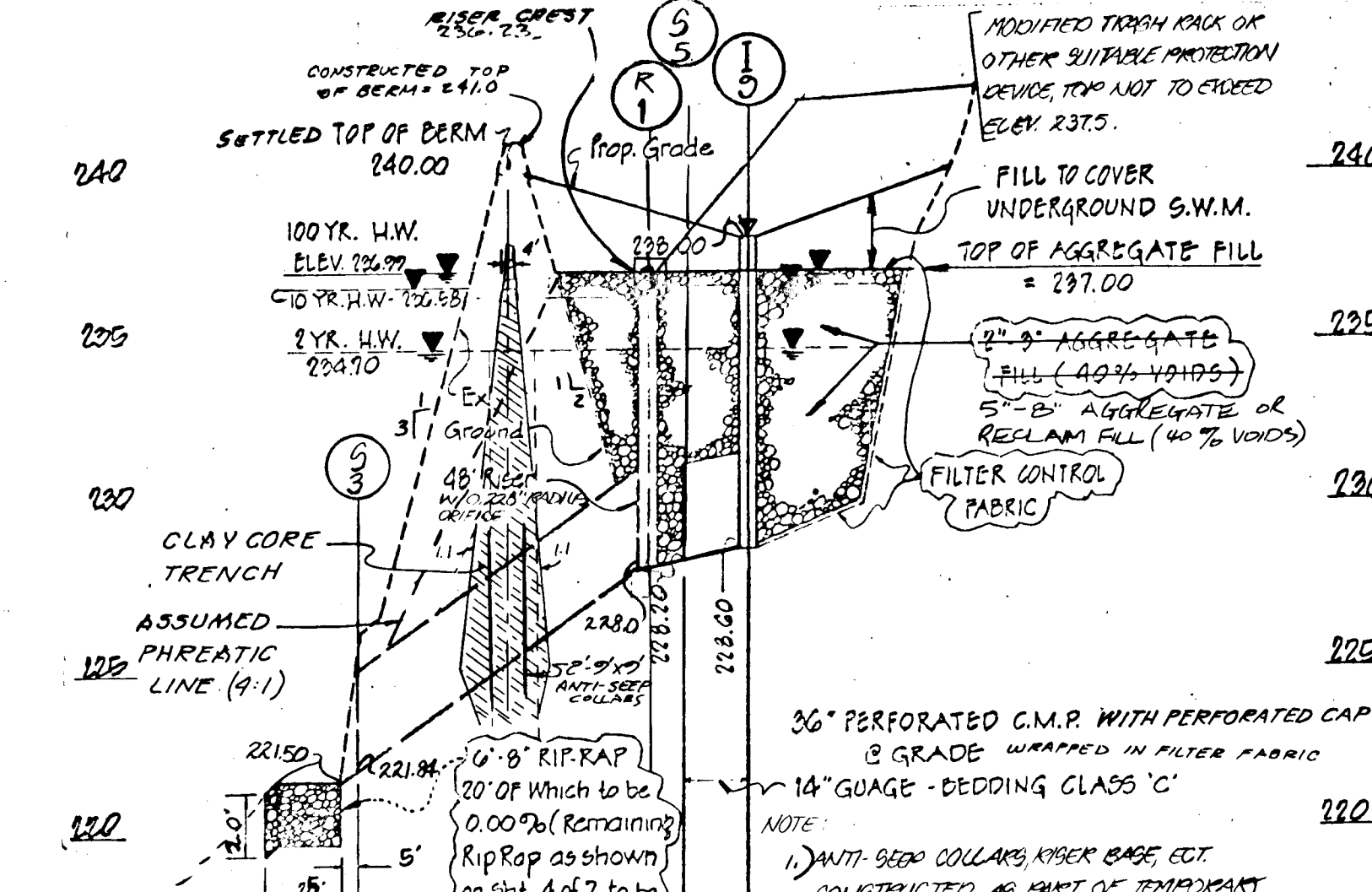
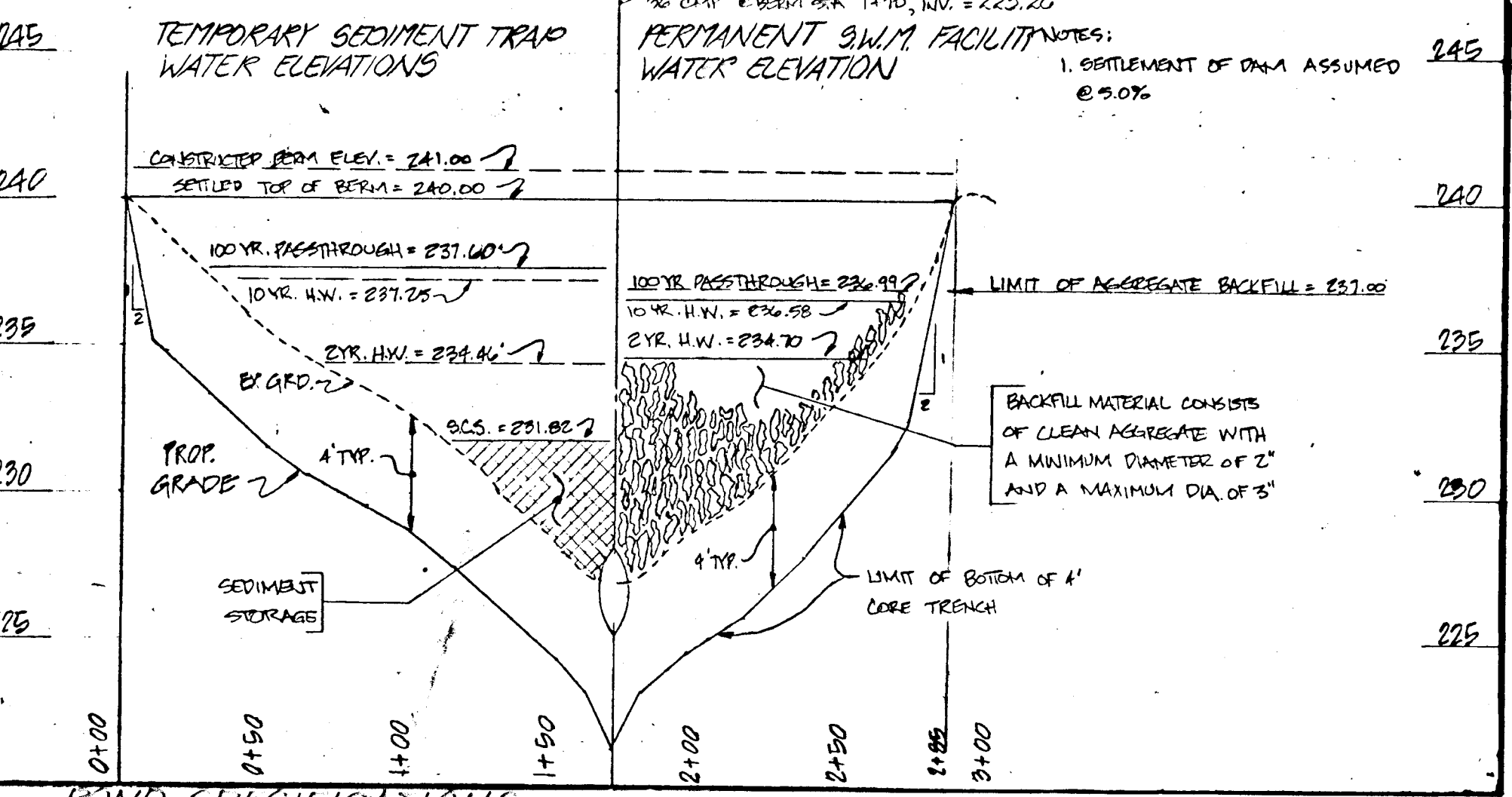
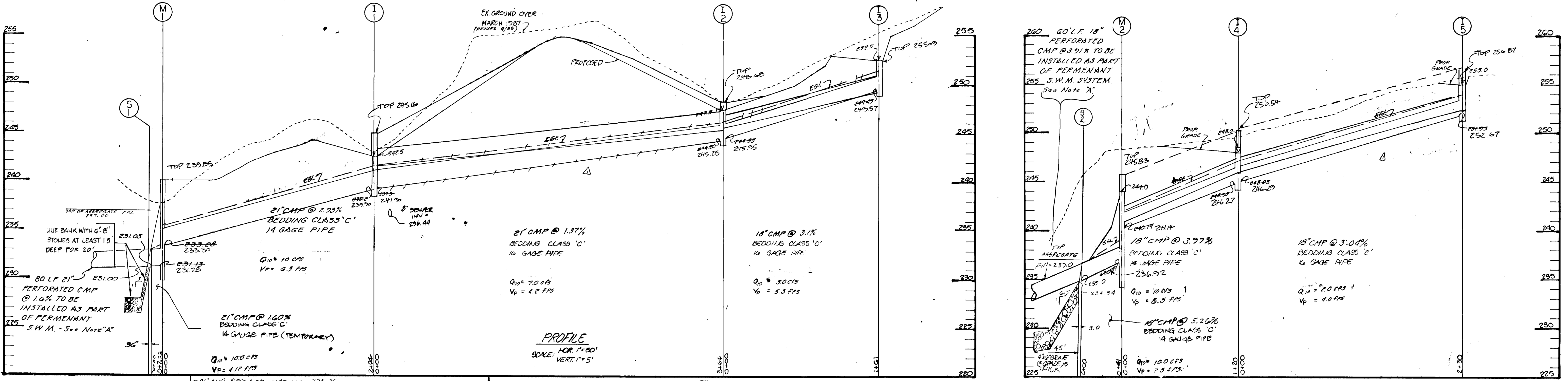
boender associates
 inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 3565 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 465-7777



PLAN
 SURVEYED: BY: DATE:
 PLOTTED: BY: DATE:
 NOTE BOOK: NO. OF PAGES CHECKED: NO.

PROFILE
 SURVEYED: BY: DATE:
 PLOTTED: BY: DATE:
 NOTE BOOK: NO. OF PAGES CHECKED: NO.
 ELEVATION NOTATIONS CHECKED:

NOTE A: DURING CONVERSION FROM TEMPORARY TO PERMANENT SWM FACILITIES, REMOVE END SECTIONS AS REQUIRED AND INSTALL PERFORATED PIPING WRAPPED IN FILTER FABRIC AS INDICATED. THE END OF EACH PIPE SHALL BE CAPPED & PERFORATED



DEVELOPER: WESTON BUILDERS
 9101 CHERRY TREE LANE
 SUITE 108
 LAUREL, MD. 20708

OWNER: WHISKEY BOTTOM JOINT VENTURE
 5111 CHERRY TREE LANE
 SUITE 108
 LAUREL, MD. 20708

STRUCTURE SCHEDULE					
STRUCTURE	DESCRIPTION	INVERT IN	INVERT OUT	TOP ELEVATION	REFERENCE
I-1	TYPE D INLET	235.25	235.25	235.25	HO. CO. STD. DET. 50-411
I-2	TYPE D INLET	235.25	235.25	235.25	HO. CO. STD. DET. 50-411
I-3	TYPE D INLET	N/A	235.25	235.25	HO. CO. STD. DET. 50-411
I-4	TYPE D INLET	235.25	235.25	235.25	HO. CO. STD. DET. 50-411
I-5	TYPE D INLET	N/A	235.25	235.25	HO. CO. STD. DET. 50-411
M-1	PRECAST MANHOLE	235.25	235.25	235.25	HO. CO. STD. DET. 5-12
M-2	PRECAST MANHOLE	235.25	235.25	235.25	HO. CO. STD. DET. 5-12
S-1	METAL END SECTION	235.25	235.25	235.25	HO. CO. STD. DET. 5-12
S-2	METAL END SECTION	235.25	235.25	235.25	HO. CO. STD. DET. 5-12
S-3	METAL END SECTION	235.25	235.25	235.25	HO. CO. STD. DET. 5-12
R-1	48" DIA RISER	235.25	235.25	235.25	HO. CO. STD. DET. 5-12
I-6	TYPE A-10 INLET	235.25	235.25	235.25	HO. CO. STD. DET. 50-411
I-7	TYPE A-10 INLET	N/A	235.25	235.25	HO. CO. STD. DET. 50-411
I-9	TYPE D INLET	N/A	235.25	235.25	HO. CO. STD. DET. 50-411
S-4	END OF PER. PIPE	235.25	235.25	N/A	N/A
S-6	END OF PER. PIPE	235.25	235.25	N/A	N/A
M-3	PRECAST MANHOLE	235.25	235.25	235.25	HO. CO. STD. DET. 5-12
M-4	PRECAST MANHOLE	235.25	235.25	235.25	HO. CO. STD. DET. 5-12

TEMPORARY SEDIMENT TRAP WATER ELEVATIONS

CONSTRUCTED PERM. ELEV. = 231.00
 SETTLED TOP OF BERM = 240.00

100 YR. PASTHROUGH = 231.60
 10 YR. H.W. = 231.75

2 YR. H.W. = 234.40

PERMANENT SWM FACILITY WATER ELEVATION

1. SETTLEMENT OF D.M.A. ASSUMED @ 5.0%

100 YR. PASTHROUGH = 234.90
 10 YR. H.W. = 234.98

2 YR. H.W. = 234.70

LIMIT OF AGGREGATE BACKFILL = 231.00

BACKFILL MATERIAL CONSISTS OF CLEAN AGGREGATE WITH A MINIMUM DRAINAGE OF 2" AND A MAXIMUM DIA. OF 5"

CROSS-SECTION OF PERMANENT UNDERGROUND SWM FACILITY

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

36" PERFORATED C.M.P. WITH PERFORATED CAP @ GRADE WRAPPED IN FILTER FABRIC

14" GAUGE BEDDING CLASS 'C'

CLAY CORE TRENCH

PHREATIC LINE (9-1)

ASSUMED

100 YR. H.W. = 234.90
 10 YR. H.W. = 234.98
 2 YR. H.W. = 234.70

SETTLED TOP OF BERM = 240.00

TOP OF AGGREGATE FILL = 231.00

100 YR. H.W. = 231.60
 10 YR. H.W. = 231.75
 2 YR. H.W. = 234.40

CLAY CORE TRENCH (4:1)

6" RIPP RAP 20" WHICH TO BE 0.00% (REMAINING) RIPP RAP 20" ON SHT. 4 OF 7 TO BE @ GRADE

36" PERFORATED C.M.P. WITH PERFORATED CAP @ GRADE WRAPPED IN FILTER FABRIC

14" GAUGE BEDDING CLASS 'C'

NOTE: 1) ANTI-SEEP COLLARS, RISER BASE ETC. CONSTRUCTED AS PART OF TEMPORARY SEDIMENT TRAP ARE EXISTING AND ARE TO REMAIN.

2) PIPE TO PLACEMENT OF FILL FOR Embankment, Surface Sills Shall Be Installed.

Material Used as Fill Shall Be Inspected, Tested, and Approved by Geotechnical Engineer Prior to Placement. A Geotechnical Engineer Shall Be Present During Placement of Materials for the Embankment, for Laps of Subsurface Exploring See Sheet S-2 of 2.

INVESTIGATION RESULTS INDICATE 95% COMPACTION IS REQUIRED.

CROSS-SECTION OF TEMPORARY SEDIMENT TRAP

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

48" BERM

ASSUMED PHREATIC LINE (9-1)

TOP OF CONSTRUCTED BERM = 241.00

TOP OF SETTLED BERM = 240.00

RISER CREST ELEV. = 236.92

100 YR. H.W. = 237.60
 10 YR. H.W. = 237.75
 2 YR. H.W. = 234.40

CLAY CORE TRENCH (4:1)

6" RIPP RAP 20" WHICH TO BE 0.00% (REMAINING) RIPP RAP 20" ON SHT. 4 OF 7 TO BE @ GRADE

36" PERFORATED C.M.P. WITH PERFORATED CAP @ GRADE WRAPPED IN FILTER FABRIC

14" GAUGE BEDDING CLASS 'C'

NOTE: FOR ANTI-SEEP COLLAR, RISER BASE, DENATURING AND TRASH RACK DETAILS SEE SHEET T OF 7.

NOTES:

- Q1 = TEMPORARY DESIGN DISCHARGE
- Q2 = PERMANENT DESIGN DISCHARGE
- V1 = TEMPORARY DESIGN VELOCITY
- V2 = PERMANENT DESIGN VELOCITY
- DESIGN FREQUENCY = 10 YEARS
- FOR DETAILS SEE SHEET T OF 7.
- ALL CONSTRUCTION AND OPERATIONS ARE TO BE IN ACCORDANCE WITH HOWARD COUNTY AND MARYLAND STATE STANDARDS AND SPECIFICATIONS WHERE APPLICABLE.
- FOR STORM DRAIN AND SEDIMENT CONTROL PLANS SEE SHEET S OF 7.
- FOR PERMANENT STORM WATER MANAGEMENT PLAN SEE SHEET S OF 7.

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A COURSE OF INSTRUCTION APPROVED BY THE DISTRICT FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE FOUR WITHIN 30 DAYS OF COMPLETION. I ALSO APPROVE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

5-19-87

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.

J. Helms
 U.S. CONSERVATION SERVICE
 1-22-88 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chief, Land Development Division
 Approved: Howard County Office of Planning and Zoning
 Chief, Bureau of Highways

CONCRETE

- Concrete - Normal Portland cement shall conform to the latest ASTM Specification C-150.
- Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.
- Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing one-quarter inch sieve. Limestone sand shall not be used.
- Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and shall be well graded with a maximum size of one and one-half (1 1/2) inches. The combination of aggregate may be adjusted to produce a plastic and workable mix that will not segregate in plastic or homogeneous in the structure.
- Reinforcing Steel - The reinforcing steel shall be deformed bars of Intermediate grade #11 or steel or rail steel conforming to ASTM Specification A-615.
- Design Mix - The concrete shall be mixed in the following proportions, measured by weight: The water-cement ratio shall be 3-1/2 to 4.5. Materials for the trial mix shall be 1 1/2 to 2. The proportion of aggregate may be adjusted to produce a plastic and workable mix that will not segregate in plastic or homogeneous in the structure.
- Mixing - The concrete ingredients shall be mixed in batches where the mixture is homogeneous and of uniform consistency. The mixing of concrete shall continue for not less than one and one-half minutes after all the ingredients except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water into the mixer. Water shall be added prior to, during, and following the mixing operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.
- Placing - The concrete shall be placed in a non-sticking mineral oil or thoroughly wetted before concrete is placed.

STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly concave condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the negative treatment specifications or as shown on the accompanying drawings.

EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

PROFILES

PROJECT: STRATFORD DOWNS

LOCATION: TAX MAP 47, PARCEL 717, TAX MAP 50, PARCEL 146, OF THE 58-82

GTH ELECTION DISTRICT HOWARD TAX MAP 50 CO. MD

SCALE: AS NOTED DESIGNED BY JH DRAWN BY RBM/UCO CHECKED BY L.B. DATE: APRIL 1987

FIELD BOOK: PAGE NO. JOB NO. 86045 DRAWING NO. 6 OF 7

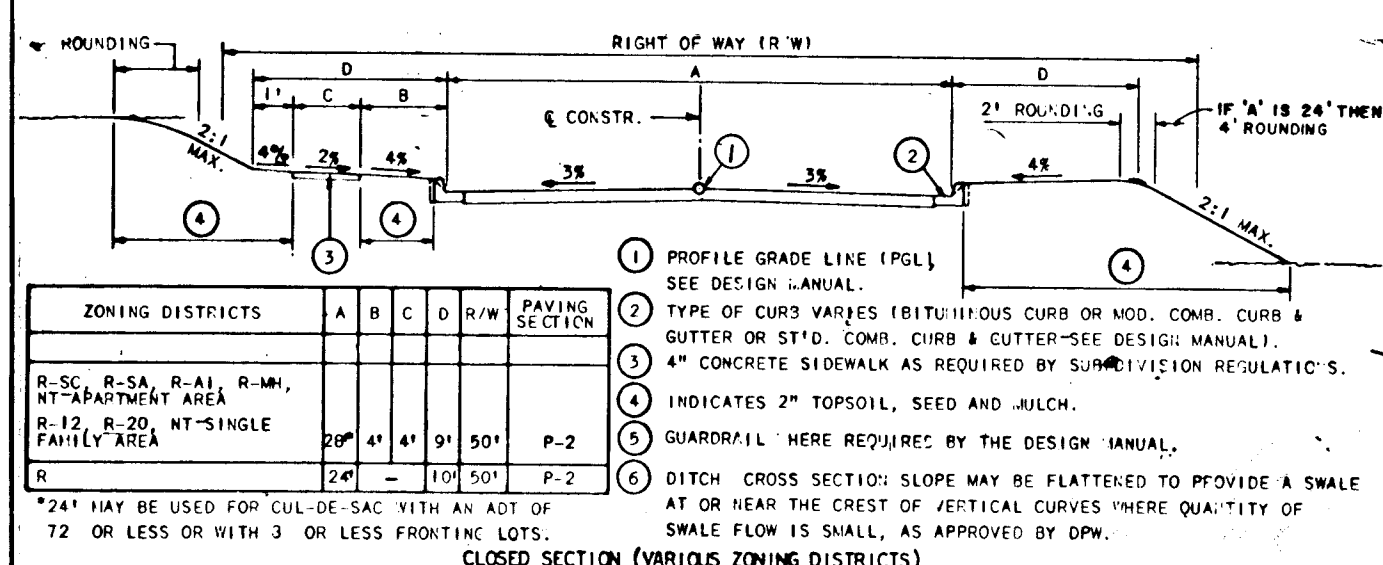
boender associates inc. consulting engineers land surveyors land planners

COURTHOUSE SQUARE 3585 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD. 21043 (301) 465-7777

DATE: DEC 16, 1991

1-88-35

CURVE NO.	RADIUS	LENGTH	DELTA	CURVED BEARING AND DISTANCE
1	185.00	107.80	116.95	300.550' N 75°41'55"E 177.64'
2	109.62	69.01	95.69	161.416' S 30°55'59"E 67.66'



- TYPICAL SECTION - CUL-DE-SAC**
- KING'S POST COURT - E STA 2+40.00 TO E STA 1+48.00
 - QUEEN'S POST COURT - E STA 0+00 TO E STA 1+51.00
 - JASMINE COURT - E STA 0+00 TO E STA 1+32.04
 - EX ZONING: R-5C
 - NOT TO SCALE
 - 50' R/W
 - PAVING SECTION: P-2
 - DESIGN SPEED: KING'S POST CT: 30 MPH
QUEEN'S POST CT & JASMINE CT: 25 MPH

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James R. Kautz 1/28/88
 Chief, Division of Community Planning and Land Development

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Wesley H. Fox 1-28-88
 Chief, Land Development Division

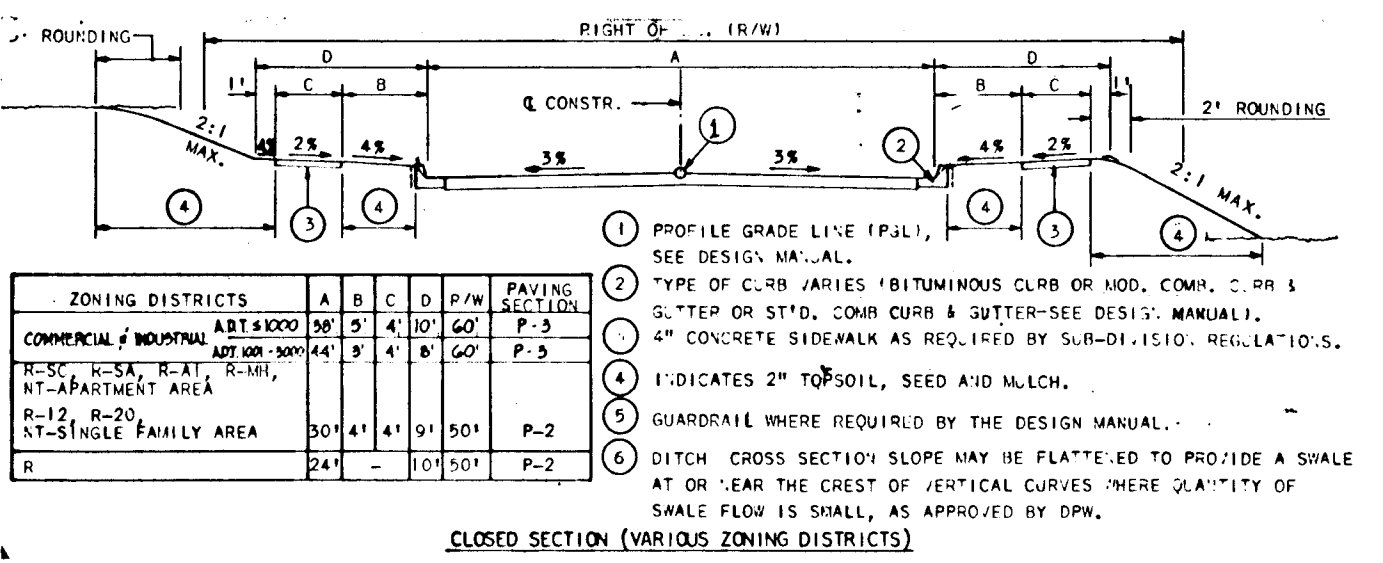
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Thomas W. Hagan 1/28/88
 Chief, Bureau of Highways

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert P. DeLoach 1-28-88
 Chief, Bureau of Engineering

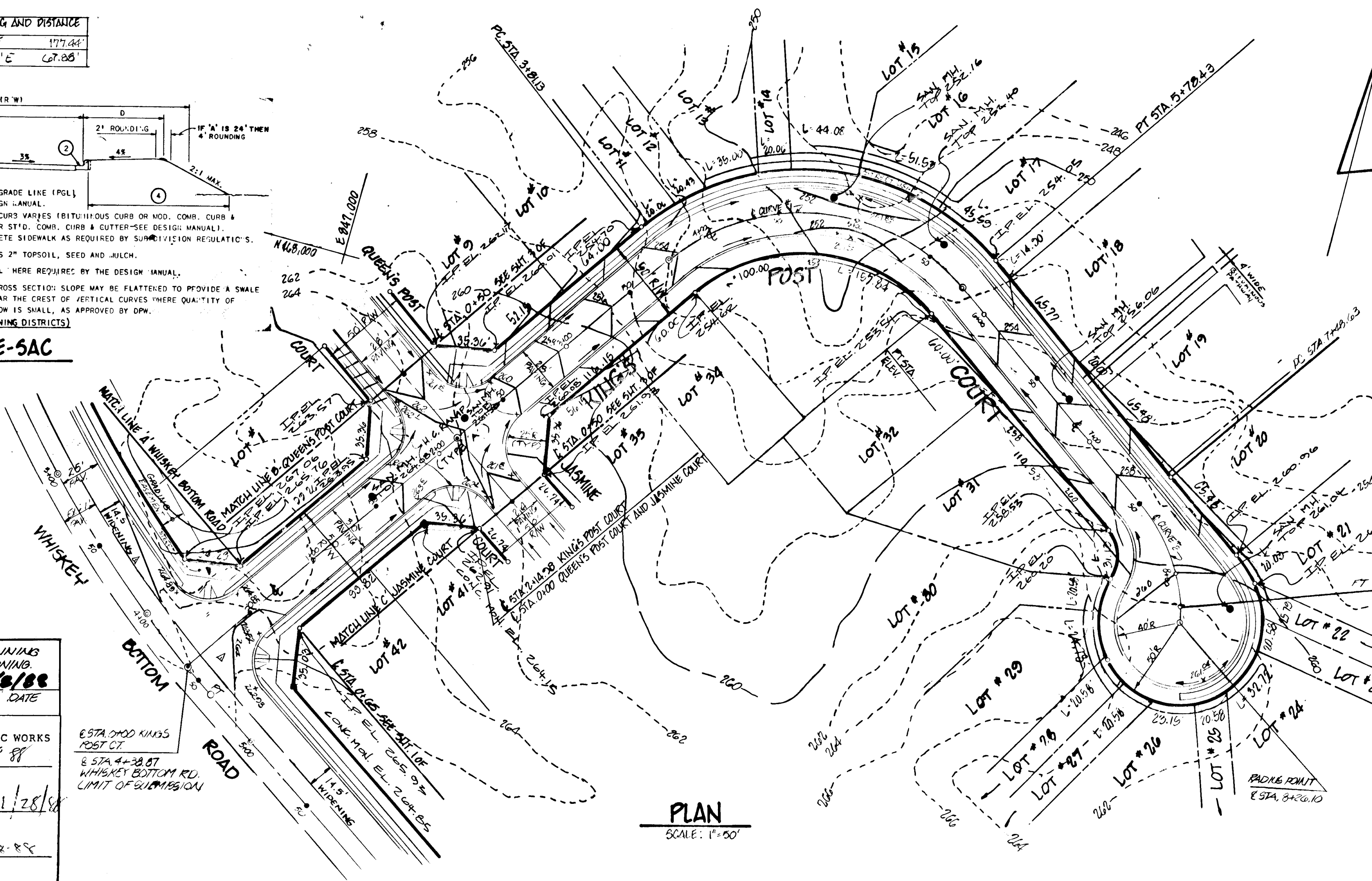
NOTES:
 1. SEE SHEET 1 FOR NOTES.

2. **STREET LIGHTS**
 A) WEST CORNER OF KING'S POST CT.
 & WHISKEY BOTTOM RD. PROVIDE
 1-250 WATT MERCURY VAPOR
 LAMP, PENDANT MOUNTED
 FIXTURE ON 30' GALVANIZED
 STEEL POLE.
 B) STA 5+25, KING'S POST CT.
 PROVIDE 1-175 WATT MERCURY
 VAPOR LAMP, TOP FIXTURE ON
 14 FT. GRAY FIBERGLASS POLE.

REVISIONS		
DATE	DESCRIPTION	BY
8-3-88	Changes to Contours 2+4+2+6 & ALSO TO PROFILE	D.M.W.



- TYPICAL SECTION - LOCAL STREET**
- KING'S POST COURT - E STA 0+00 TO E STA 2+14.00
 - EX ZONING: R-5C
 - NOT TO SCALE
 - 50' R/W
 - PAVING SECTION: P-2
 - DESIGN SPEED: 30 MPH



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. I WILL 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
Charles W. White 1/28/88
 DEVELOPER

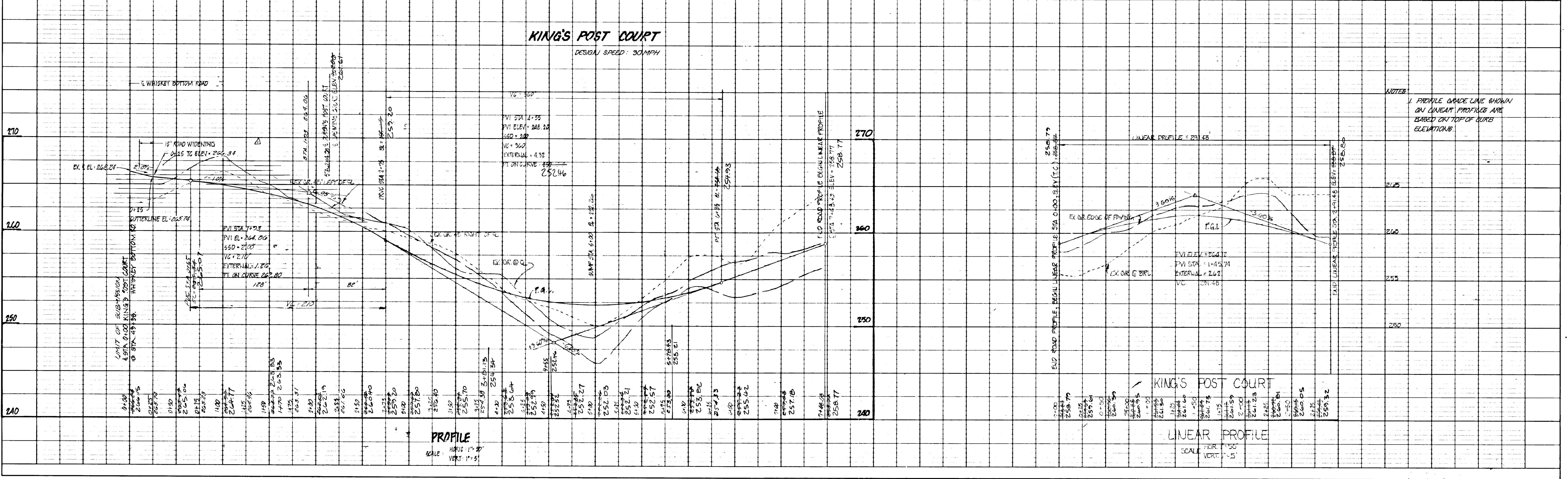
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Robert P. DeLoach 1/28/88
 ENGINEER

OWNERS
 WHISKEY BOTTOM JOINT VENTURE
 9101 CHERRY TREE LANE
 SUITE 10B
 LAUREL, MD 20708

DEVELOPER
 WESTIN BUILDERS
 9101 CHERRY TREE LANE
 SUITE 10B
 LAUREL, MD 20708

boender associates inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 3585 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD 21143
 (301) 465-7777

TITLE: ROAD CONSTRUCTION PLAN
PROJECT: STRATFORD DOWNS KING'S POST COURT
 LOCATION: 6TH ELECTION DISTRICT TAX MAP 20.841 HOWARD CO. MD
 SCALE: AS SHOWN
 DESIGNED BY: U.T.N.
 DRAWN BY: R.B.M.
 CHECKED BY: L.B.
 DATE: JULY, 1987
 FIELD BOOK: PAGE NO. 0645 JOB NO. DRAWING NO. 2 OF 7



DATE	BY	REVISIONS

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James R. Korte 12/18/88
 Director, Division of Community Planning and Land Development

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Michael A. F. 1-29-89
 Chief, Land Development Division

Drayton M. Walden 1/28/88
 Chief, Bureau of Highways

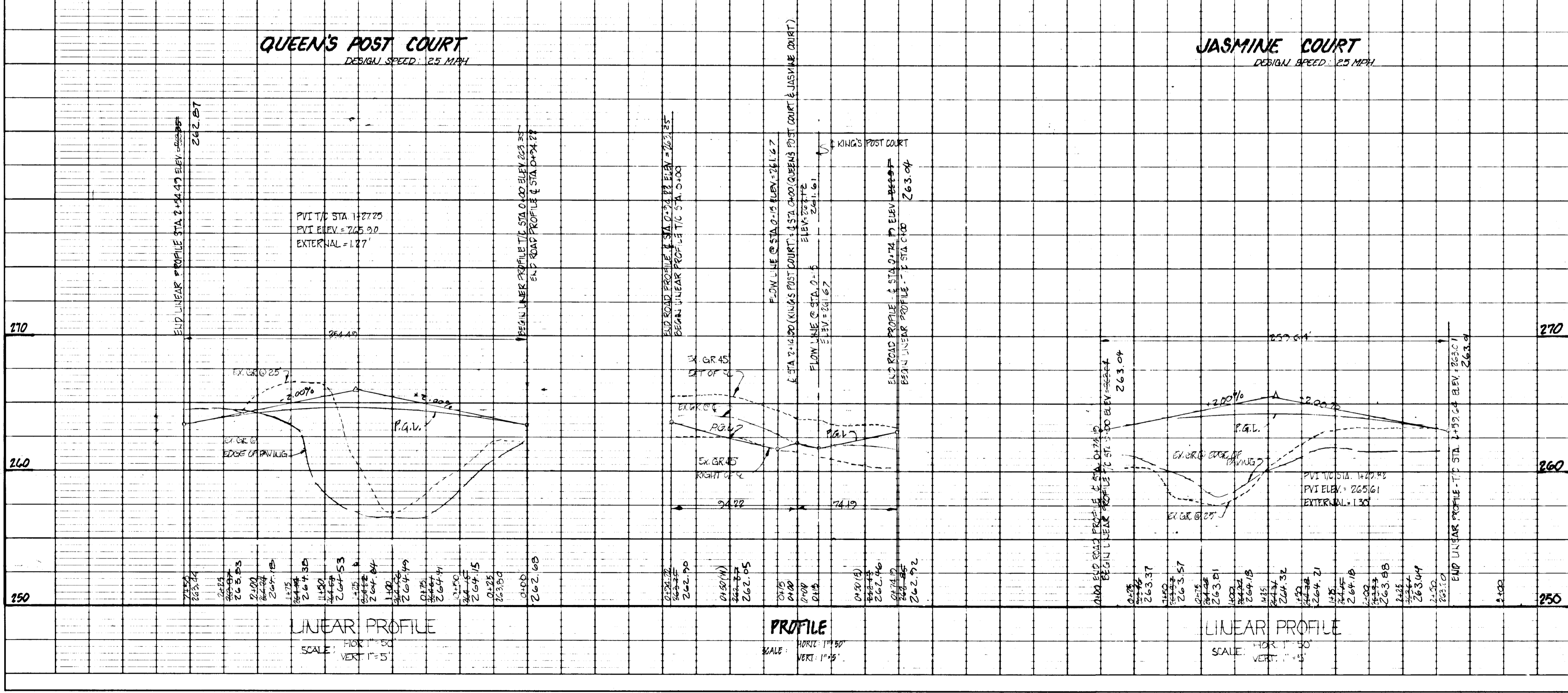
William P. Ryan 1-29-89
 Chief, Bureau of Engineering

DEVELOPER'S CERTIFICATE
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Robert M. Weston, III August 3, 1987
 DEVELOPER

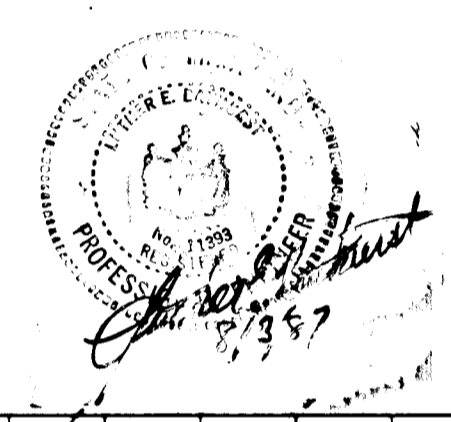
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 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD 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."
Donald R. Korte 8/3/87
 ENGINEER

DATE	DESCRIPTION REVISIONS	BY

DATE	BY	REVISIONS



NOTES:
 1. SEE SHEET 1 FOR NOTES.



TITLE: ROAD CONSTRUCTION PLAN		OWNER: WESTIN BUILDERS 9101 CHERRY TREE LANE SUITE 108 LAUREL, MD 20708	
PROJECT: STRATFORD DOWN'S QUEEN'S POST COURT & JASMINE COURT		DEVELOPER: WHISKEY BOTTOM JOINT VENTURE 9101 CHERRY TREE LANE SUITE 108 LAUREL, MD 20708	
LOCATION: 6TH ELECTION DISTRICT TAX MAP 502.47 HOWARD CO., MD.			
SCALE: AS NOTED	DESIGNED BY: J.T.N.	DRAWN BY: R.B.M.	CHECKED BY: L.B.
FIELD BOOK: -	PAGE NO.: -	JOB NO.: 8445	DATE: JULY, 1987
DRAWING NO.: 3 OF 7		COURTHOUSE SQUARE 3565 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD 21043 3011 465-7777	

LEGEND

- 1) EXISTING WOODS TO REMAIN UNDISTURBED
- 2) SILT FENCE
- 3) STORM DRAINS
- 4) DRAINAGE AREA
- 5) SOILS CLASSIFICATIONS
- 6) DRAINAGE AREA NUMBER

REVISIONS		
DATE	DESCRIPTION	BY

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. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORITY PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
John Murray 1A Water Bldg. 5-18-87
 DEVELOPER DATE

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
James R. Smith 5-19-87
 ENGINEER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
James R. Smith 3/8/88
 SUPERVISOR OF COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE

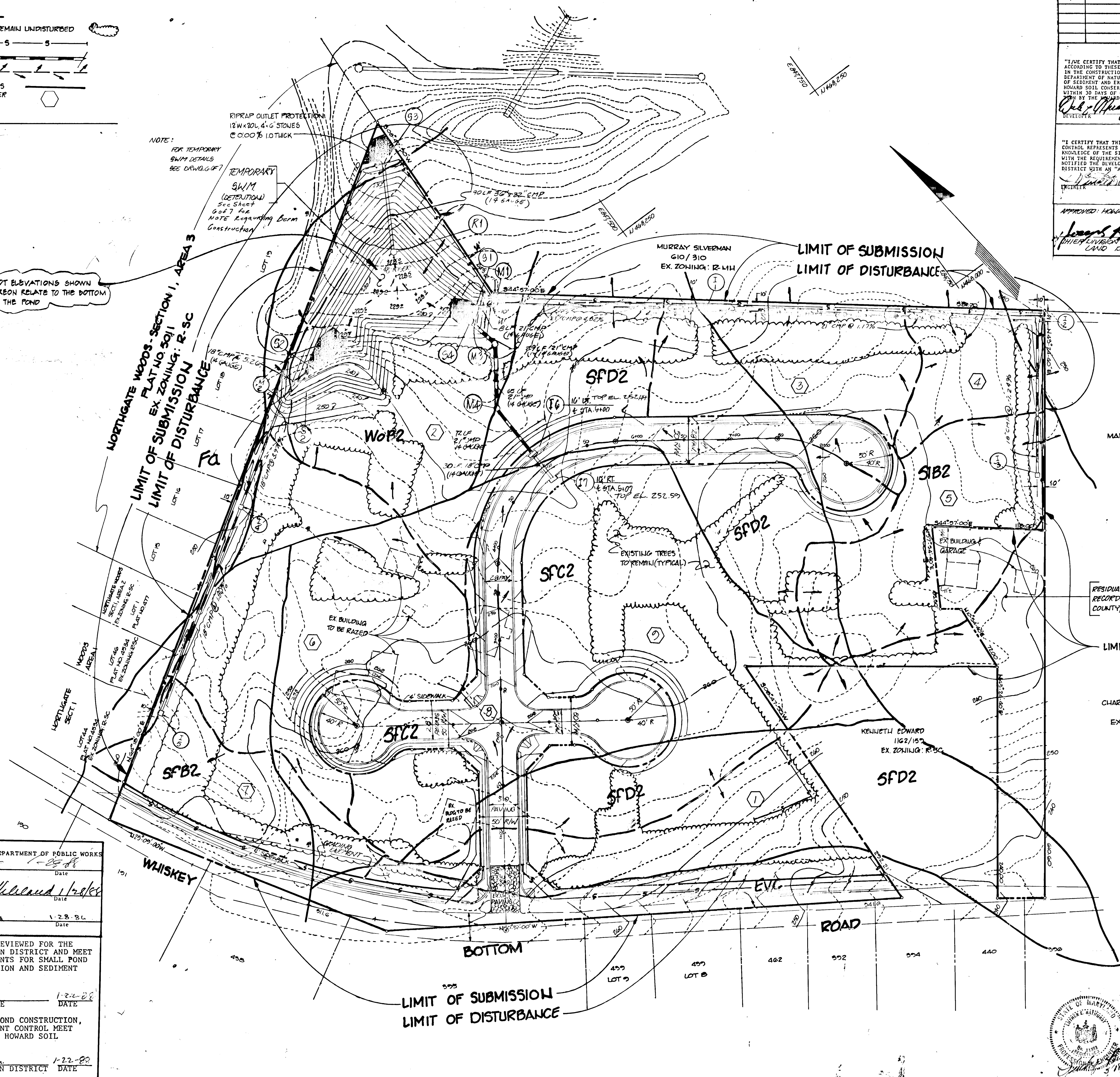
- NOTE:
- FOR PERMANENT S.W.M. SEE DRAWING 5 OF 7
 - FOR STORM DRAIN PROFILES SEE DRAWING 6 OF 7 & 7 OF 7
 - CONTRACTOR SHALL NOTIFY BUILDER ASSOCIATES 48 HOURS PRIOR TO CONSTRUCTION FOR TEMPORARY S.W.M. FACILITIES.
 - FOR LOCATION DIMENSIONS FOR DRAINAGE STRUCTURES SEE SHEET 5 OF 7.

SPOT ELEVATIONS SHOWN HEREON RELATE TO THE BOTTOM OF THE POND

NOTE:
 FOR TEMPORARY S.W.M. DETAILS SEE DRAWING 6 OF 7

TEMPORARY S.W.M. (RETENTION) See Sheet 6 of 7 for NOTE Regarding Berm Construction

NORTHGATE WOODS - SECTION I, AREA 3
 FLAT NO. 501
 EX. ZONING: R-3C
 LIMIT OF SUBMISSION
 LIMIT OF DISTURBANCE



TEMPORARY FLOW TO INLETS AND OVERLAND FLOW

Q.A. NO.	COLLECTION POINT	DRAINAGE AREA (A.C.)	SWM COMPUTATIONS SHEET NUMBERS	2 YR	10 YR
1	OVERLAND UNCONTROLLED	1.282	40 OF 58	2.0	4.0
2	OVERLAND TO SWM	1.794	13 OF 58	5.0	10.0
3	I-1	0.724	9 OF 58	1.0	3.0
4	I-2	0.383	7 OF 58	1.0	2.0
5	I-3	0.915	8 OF 58	3.0	5.0
6	I-4	1.570	5 OF 58	4.0	8.0
7	I-5	0.570	10 OF 58	1.0	2.0
8	I-6	1.119	11 OF 58	5.0	8.0
9	I-7	2.365	12 OF 58	6.0	12.0

PERMANENT FLOW TO INLETS AND OVERLAND FLOW

Q.A. NO.	COLLECTION POINT	DRAINAGE AREA (A.C.)	SWM COMPUTATIONS SHEET NUMBERS	2 YR	10 YR
1	OVERLAND UNCONTROLLED	1.282	40 OF 58	1.0	2.0
2	OVERLAND TO SWM	1.794	39 OF 58	2.0	4.0
3	I-1	0.724	32 OF 58	1.0	2.0
4	I-2	0.383	33 OF 58	0.0	1.0
5	I-3	0.915	34 OF 58	1.0	2.0
6	I-4	1.570	35 OF 58	1.0	3.0
7	I-5	0.570	36 OF 58	0.0	1.0
8	I-6	1.119	37 OF 58	3.0	6.0
9	I-7	2.365	38 OF 58	5.0	6.0

RESIDUAL AREA OF PARCEL #36 DESCRIBED IN DEED RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN UBER 1162 AT FOLIO 157

LIMIT OF SUBMISSION

CHARLES W. LAMPARTER
 284/500
 EX. ZONING: B-2

KENNETH EDWARD
 1162/157
 EX. ZONING: R-3C

NOTES:
 1. ALL CONSTRUCTION AND GRADING OPERATIONS ARE TO BE IN ACCORDANCE WITH HOWARD COUNTY AND MARYLAND STATE STANDARDS AND SPECIFICATIONS WHERE APPLICABLE.
 2. FOR STRUCTURE SCHEDULE SEE SHEET 6 OF 7
 3. FOR CONSTRUCTION SCHEDULE SEE SHEET 5 OF 7
 4. THIS S.W.M. FACILITY IS CONSIDERED AS A STRUCTURE CLASS "A" UNDER PUBLICATION 379 ENTITLED STANDARDS AND SPECIFICATIONS FOR PONDS BY THE SEALING ENGINEER.

DEVELOPER
 WESTIN BUILDERS
 9101 CHERRY TREE LANE
 SUITE 108
 LAUREL, MD. 20708

OWNERS
 WHISKEY BOTTOM JOINT VENTURE
 9101 CHERRY TREE LANE
 SUITE 108
 LAUREL, MD. 20708

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Michael F. ... 1-28-88
 Chief, Land Development Division Date
Branigan W. ...
 Chief, Bureau of Highways Date
... 1-28-88
 Chief, Bureau of Engineering Date

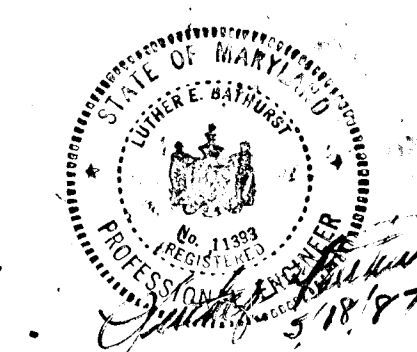
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

A. Helm 1-22-88
 U.S. CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. ... 1-22-88
 HOWARD SOIL CONSERVATION DISTRICT DATE

TITLE: DRAINAGE AREA PLAN, EROSION CONTROL PLAN
 PROJECT: STRATFORD DOWNS
 LOCATION: TAX MAP 47, PARCEL 77; TAX MAP 50, PARCEL 49; OF 17 FILE # 8-8-87
 CITY: GTH ELECTION DISTRICT HOWARD TAX MAP 50 CO., MD.
 SCALE: 1"=50' DESIGNED BY: JOE NASON DRAWN BY: JBOYD III CHECKED BY: L.B. DATE: APRIL 1987
 FIELD BOOK: 87 PAGE NO.: 111 JOB NO.: 86045 DRAWING NO.: 4 OF 7

boender associates inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 3565 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 465-7777



AS-BUILT DEC. 16, 1991 1-88-35

CONSTRUCTION SEQUENCE

- OBTAIN GRADING PERMIT AND BUILDING PERMIT.
- NOTIFY THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS AND THE CONSTRUCTION INSPECTIONS/SURVEYS DIVISION AT LEAST 24 HOURS PRIOR TO BEGINNING GRADING OPERATIONS.
- NOTIFY THE DIRECTOR OF ENGINEERING OF BOENDER ASSOCIATES AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION OF THE TEMPORARY STORMWATER MANAGEMENT FACILITY FOR PURPOSES OF CERTIFICATION.
- CLEAR AND GRUB AS NECESSARY TO INSTALL TEMPORARY SEDIMENT CONTROL DEVICES.
- INSTALL TEMPORARY SEDIMENT CONTROL DEVICES AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR (S.C.E., S.F. & TEMPORARY, S.W.M. FACILITY)..... 2 DAYS
- CLEAR AND GRUB AS NECESSARY TO INSTALL PERMANENT STORM DRAIN SYSTEMS..... 1 MONTH
- INSTALL PERMANENT STORM DRAIN SYSTEMS AS PER THESE DRAWINGS..... 2 WEEKS
- ROUGH GRADE ROAD AREAS. APPLY TEMPORARY STABILIZATION TO ALL DISTURBED AREAS WHERE CONSTRUCTION IS NOT IMMINENT..... 2 WEEKS
- INSTALL UTILITIES AS DETAILED UNDER CONTRACT 24-1658-B..... 1 MONTH
- INSTALL REMAINING STORM DRAIN SYSTEMS..... 1 WEEK
- BRING ROAD AREAS TO SUBGRADE LEVELS..... 1 WEEK
- INSTALL CURB AND GUTTER. PAVE ROAD..... 2 WEEKS
- FINE GRADE RIGHT-OF-WAY AREAS..... 1 WEEK
- APPLY PERMANENT STABILIZATION TO ALL DISTURBED AREAS..... 1 WEEK
- DO NOT REMOVE TEMPORARY SEDIMENT CONTROL DEVICES. THEY ARE TO BE UTILIZED FOR INDIVIDUAL LOT CONSTRUCTION UNTIL ALL LOTS ARE COMPLETED AND PERMANENTLY STABILIZED.
- WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, ALL ROAD RELATED CONSTRUCTION MAY CEASE AND LOT CONSTRUCTION MAY BEGIN UNDER CONDITIONS SET FORTH IN THE SUBSEQUENT SUBMISSION OF A SITE DEVELOPMENT PLAN. IT IS UNDER THIS PLAN THAT THE CONVERSION OF THE TEMPORARY STORMWATER MANAGEMENT FACILITY TO THE PERMANENT STORMWATER MANAGEMENT FACILITY TAKES PLACE.
- GENERAL PROCEDURES FOR CONVERTING THE TEMPORARY SEDIMENT TRAP TO A PERMANENT STORM WATER MANAGEMENT FACILITY ARE AS FOLLOWS:
 - REMOVE TRASH RACK AND ANTI-VORTEX DEVICE, AND RAISE RISER CREST ELEVATION FROM 236.23 TO 236.92. THE TOP OF THE RISER PIPE IS TO BE PROTECTED WITH A MODIFIED TRASH RACK OR OTHER SUITABLE DEVICE WRAPPED IN FILTER CLOTH TO PREVENT AGGREGATE AND/OR EARTH FROM ENTERING THE RISER. TOP OF PROTECTION DEVICE IS NOT TO EXCEED ELEVATION 237.5.
 - REMOVE 6" DEWATERING DEVICE AND ENLARGE ORIFICE IN 48" RISER FROM 0.225 RADIUS TO 0.225 RADIUS.
 - LINE BASIN WITH FILTER FABRIC AND CONSTRUCT INLET I-9 WITH 36" PERFORATED CMP.
 - BACKFILL BASIN WITH AGGREGATE TO ELEVATION INDICATED AND COVER WITH FILTER FABRIC. INSTALL PERFORATED CMP @ 0' ON FILLING.
 - GRADE TOP OF PERMANENT STORM WATER MANAGEMENT AND SEED (PERMANENT) DISTURBED AREAS.

PERMANENT S.W.M. FACILITY (UNDERGROUND, DETENTION)
POND HAZARD CLASS 'A'

NOTE:
SPOT ELEVATIONS SHOWN HEREON RELATE TO THE EARTH FILL TO BE PLACED OVER THE PERMANENT S.W.M. UNDERGROUND FACILITY

NOTE:
M3 & M4 ARE TO BE LOCATED AT THE PROPERTY LINE DIVIDING LOTS 15 & 16 (SEE RECORD PLAN FOR EXACT LOCATIONS)

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.

J. Helms 1-22-88
U.S. CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

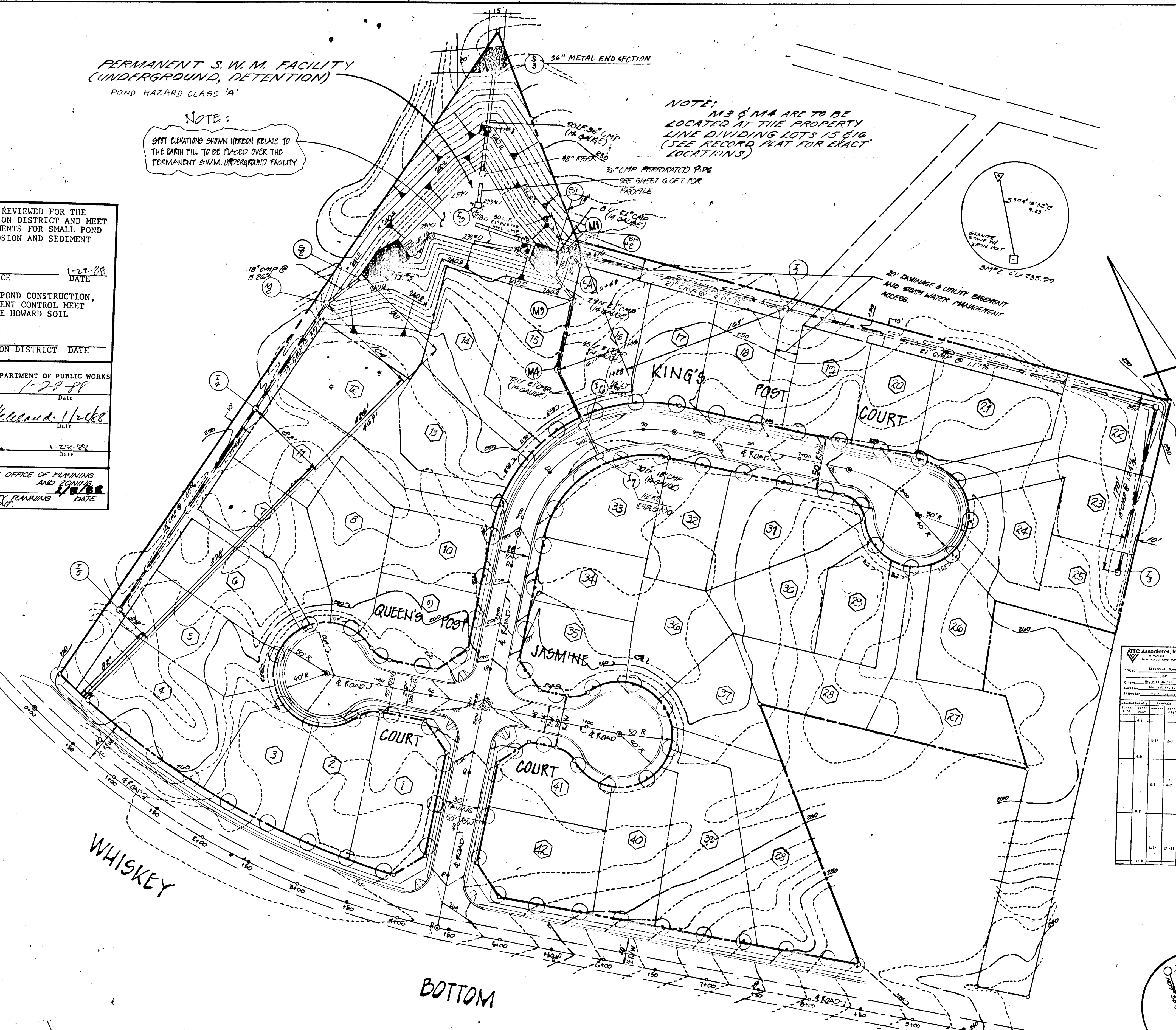
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Mark F. ... 1-22-88
Chief, Land Development Division DATE

Granville W. ...
Chief, Bureau of Highways DATE

J.C. ... 1-25-88
Chief, Bureau of Engineering DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
... .. 1/20/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



ATC Associates, Inc. RECORD OF SUBSURFACE EXPLORATION

DEPTH	DESCRIPTION OF MATERIALS	REMARKS
0.0	Topsoil, 2" to 4" deep	Water level 236.23
0.5	Light gray, silty clay	Water level 236.23
1.0	Light gray, silty clay	Water level 236.23
1.5	Light gray, silty clay	Water level 236.23
2.0	Light gray, silty clay	Water level 236.23
2.5	Light gray, silty clay	Water level 236.23
3.0	Light gray, silty clay	Water level 236.23
3.5	Light gray, silty clay	Water level 236.23
4.0	Light gray, silty clay	Water level 236.23
4.5	Light gray, silty clay	Water level 236.23
5.0	Light gray, silty clay	Water level 236.23
5.5	Light gray, silty clay	Water level 236.23
6.0	Light gray, silty clay	Water level 236.23
6.5	Light gray, silty clay	Water level 236.23
7.0	Light gray, silty clay	Water level 236.23
7.5	Light gray, silty clay	Water level 236.23
8.0	Light gray, silty clay	Water level 236.23
8.5	Light gray, silty clay	Water level 236.23
9.0	Light gray, silty clay	Water level 236.23
9.5	Light gray, silty clay	Water level 236.23
10.0	Light gray, silty clay	Water level 236.23

ATC Associates, Inc. RECORD OF SUBSURFACE EXPLORATION

DEPTH	DESCRIPTION OF MATERIALS	REMARKS
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5.0	Light gray, silty clay	Water level 236.23
5.5	Light gray, silty clay	Water level 236.23
6.0	Light gray, silty clay	Water level 236.23
6.5	Light gray, silty clay	Water level 236.23
7.0	Light gray, silty clay	Water level 236.23
7.5	Light gray, silty clay	Water level 236.23
8.0	Light gray, silty clay	Water level 236.23
8.5	Light gray, silty clay	Water level 236.23
9.0	Light gray, silty clay	Water level 236.23
9.5	Light gray, silty clay	Water level 236.23
10.0	Light gray, silty clay	Water level 236.23

LOGS OF SUBSURFACE EXPLORATION (Test Pits 1, 2, 4, 3)

NOTE:
1. THIS S.W.M. FACILITY IS CONSIDERED AS A STRUCTURE CLASS 'A' UNDER REGULATION 31B ENTITLED STANDARDS AND SPECIFICATIONS FOR PONDS BY THE SEWER ENGINEER.
2. FOR DETAILS SEE SHEET 10FT, PROFILES SEE SHEET 6 OF 7.

DEVELOPER
WESTIN BUILDERS
2101 CHERRY TREE LANE
SUITE 108
LAUREL, MD, 20708

OWNERS
WHISKEY BOTTOM JOINT VENTURE
2101 CHERRY TREE LANE
SUITE 108
LAUREL, MD, 20708

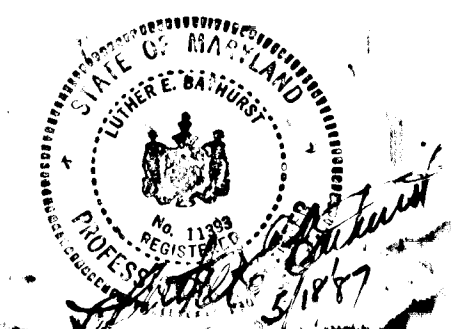
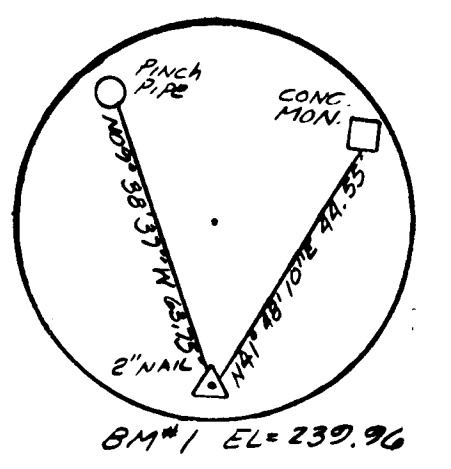
DEVELOPER'S CERTIFICATE
"I DO CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A COURSE OF INSTRUCTION APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. I WILL PROVIDE THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS."
Walter ... 5-10-87
DEVELOPER DATE

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND REASONABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
... .. 5-17-87
ENGINEER DATE

LANDSCAPE SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE
80	PLATANUS X ALERITONIA	LONDON PLAN TREE	2 1/2" CAL.

DATE	DESCRIPTION	BY



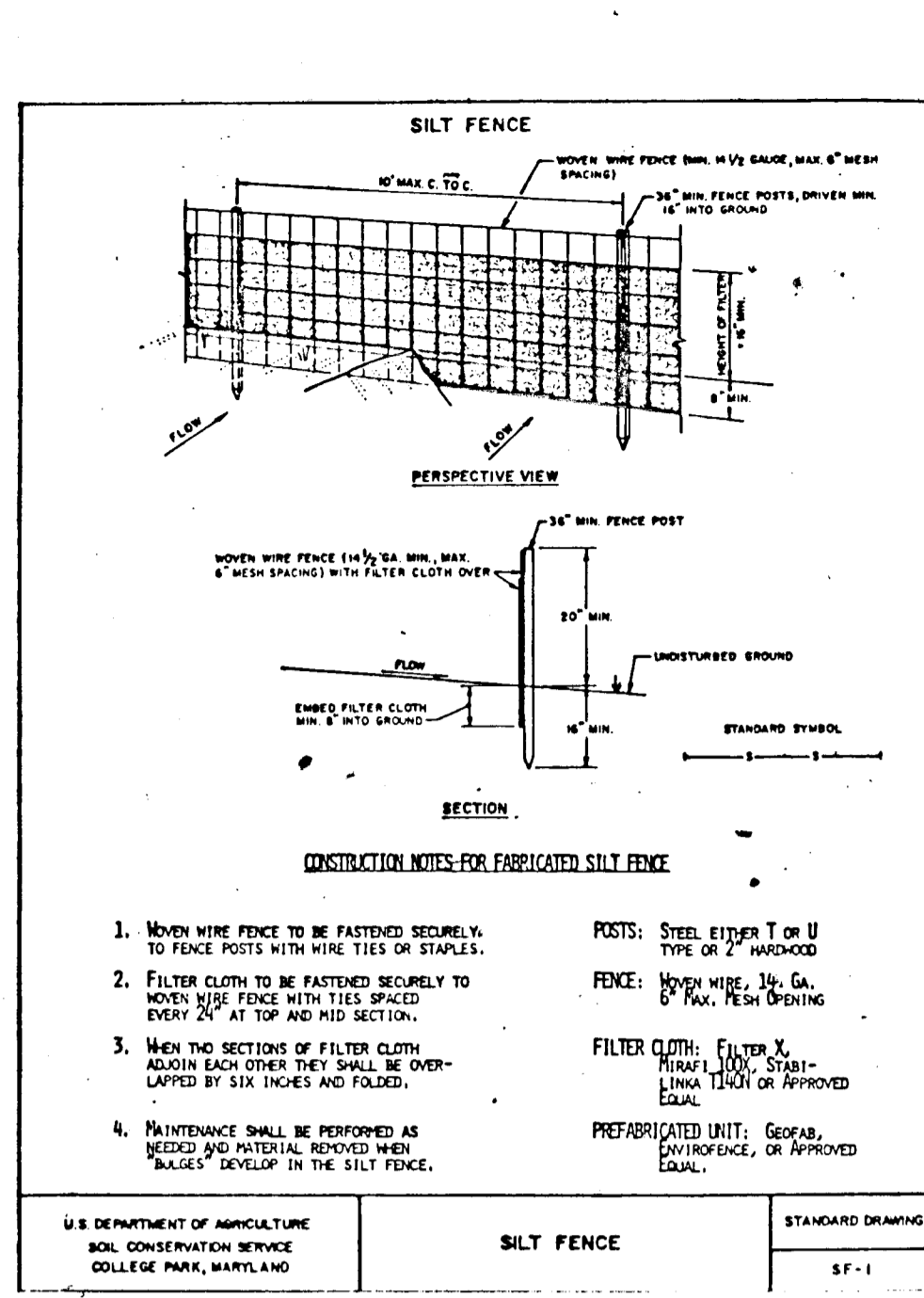
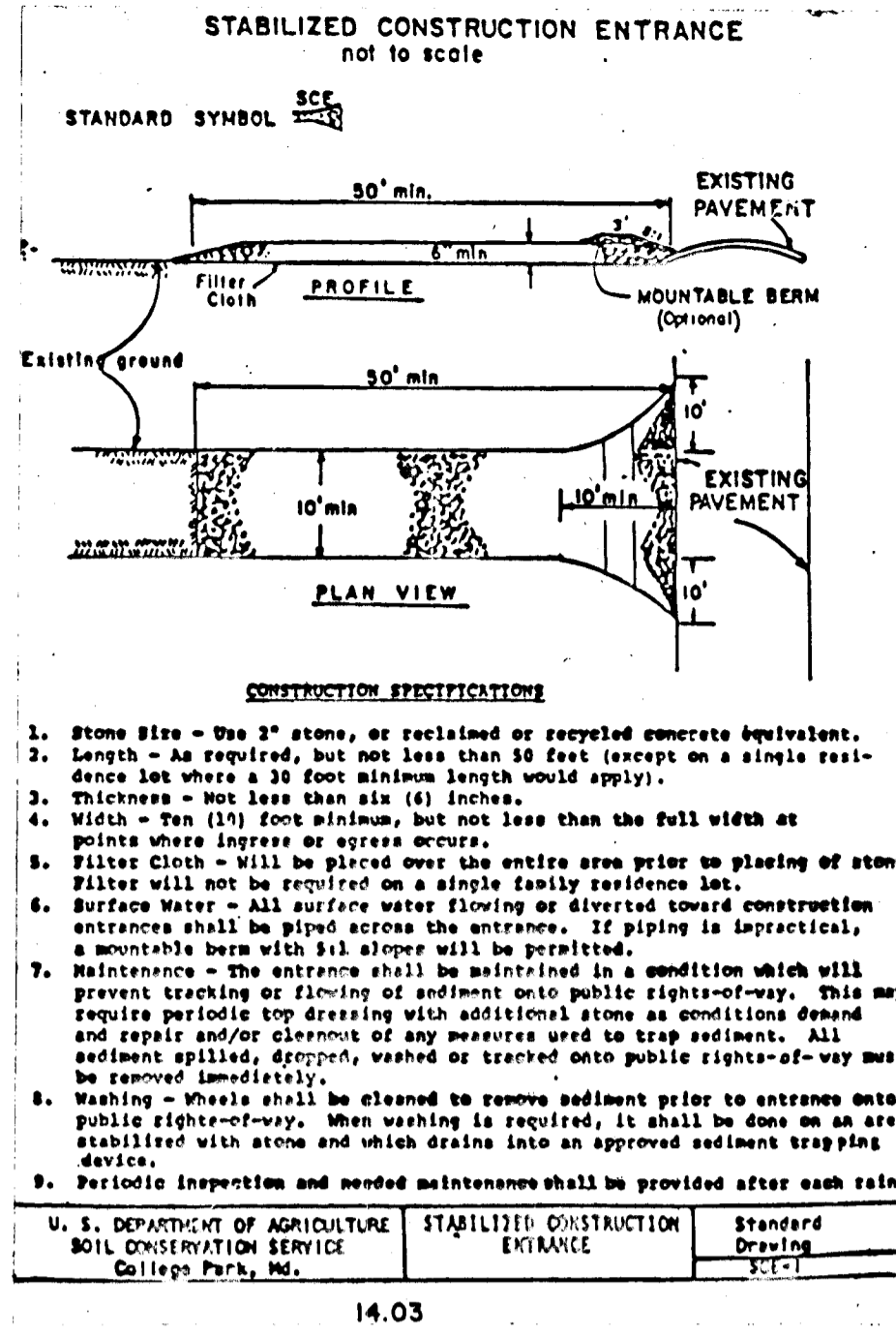
TITLE: GRADING & SEDIMENT CONTROL
PROJECT: STRATFORD DOWNS
LOCATION: TAX MAP 47, PARCEL 716, TAX MAP 50, PARCEL 436, 0.7 MILE NO. 5-26-82
ELECTION DISTRICT: HOWARD CO., MD.

SCALE: 1"=50'
DESIGNED BY: J.N.
DRAWN BY: R.B.M.
CHECKED BY: L.B.
DATE: JULY 1987

FIELD BOOK: PAGE NO. 5 OF 7
JOB NO.: 8645
DRAWING NO.: 5 OF 7

boender associates inc.
consulting engineers
land surveyors
land planners

COURTHOUSE SQUARE
3565 ELICOTT CITY, MD. 21114
(301) 441-7100



PERMANENT SEDIMENT NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 3 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. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 20-20-20 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Disc or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.6 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 3 lbs per acre 100 lbs/1000 sq ft of creeping 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 seed, Option (3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gallons per acre (8 gal/1000 sq ft) of mulchified asphalt on flat areas. On slopes 8 feet or higher, use 300 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEDIMENT NOTES

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

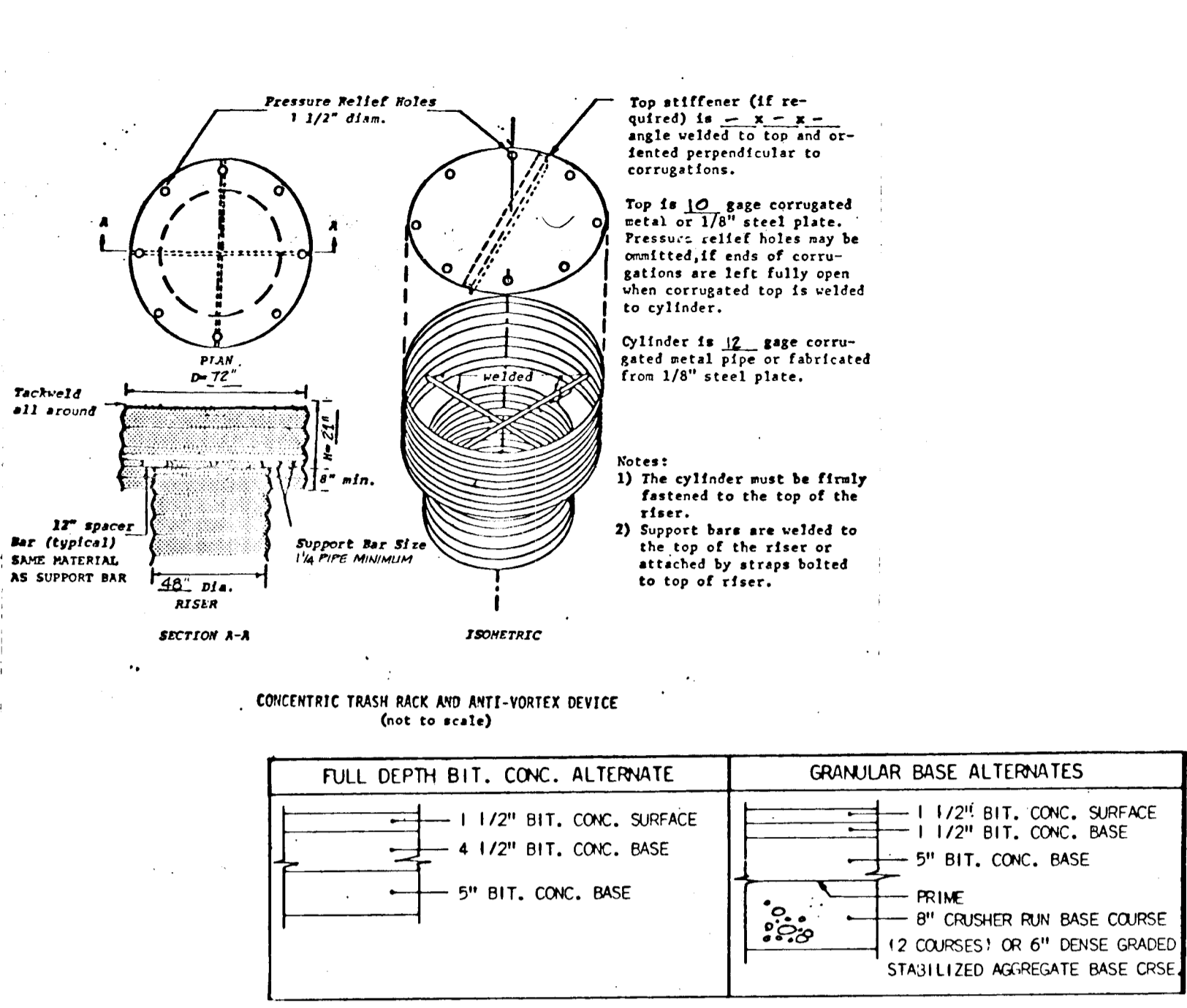
Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: Apply 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For the period March 1 thru April 30 and from August 15 thru November 15, seed with 70 lbs per acre annual type (2.2 lbs/1000 sq ft). For the period May 1 thru August 31, seed with 3 lbs per acre of creeping 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 seed.

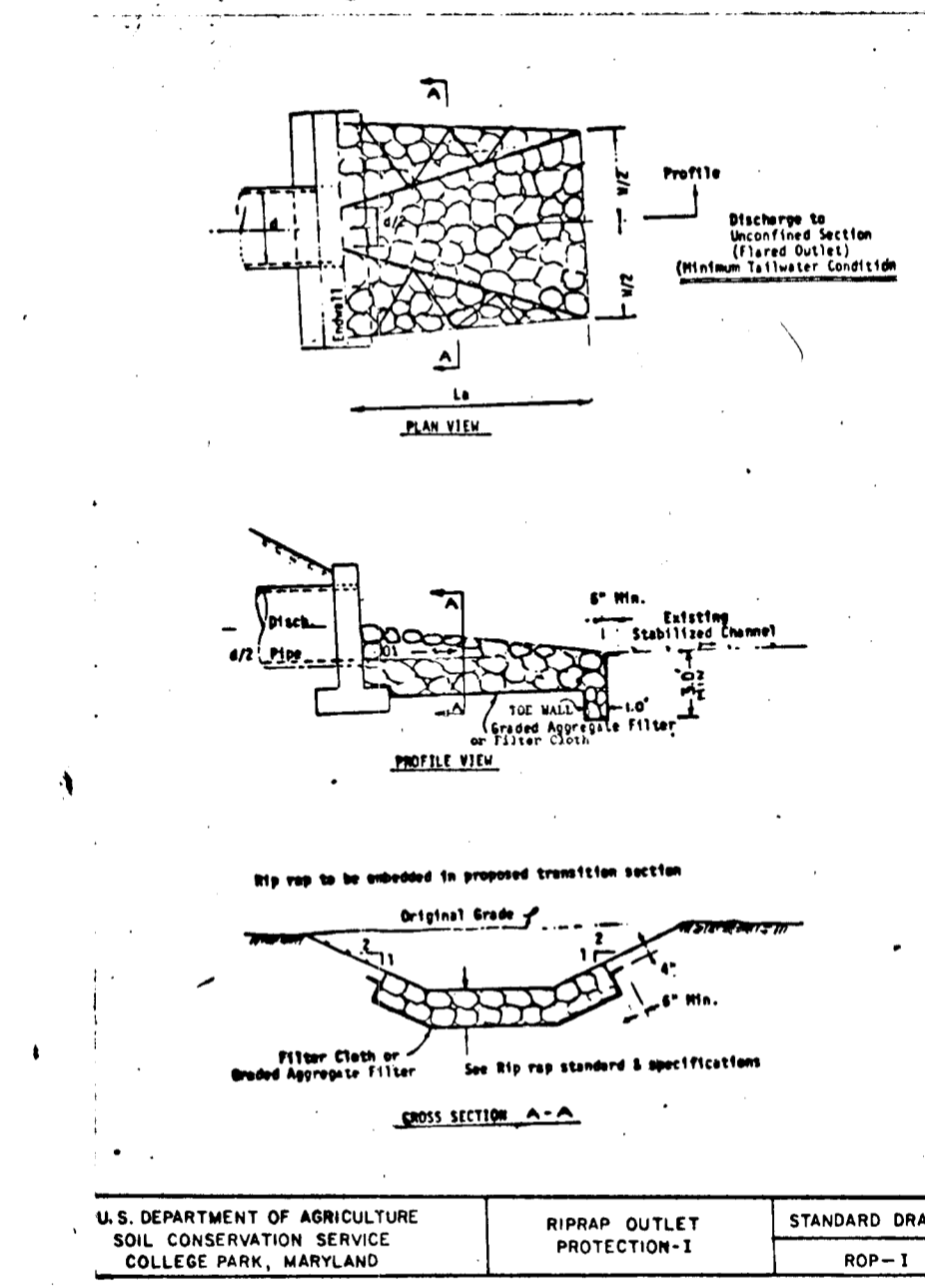
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gallons per acre (8 gal/1000 sq ft) of mulchified asphalt on flat areas. On slopes 8 feet or higher, use 300 gallons 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.



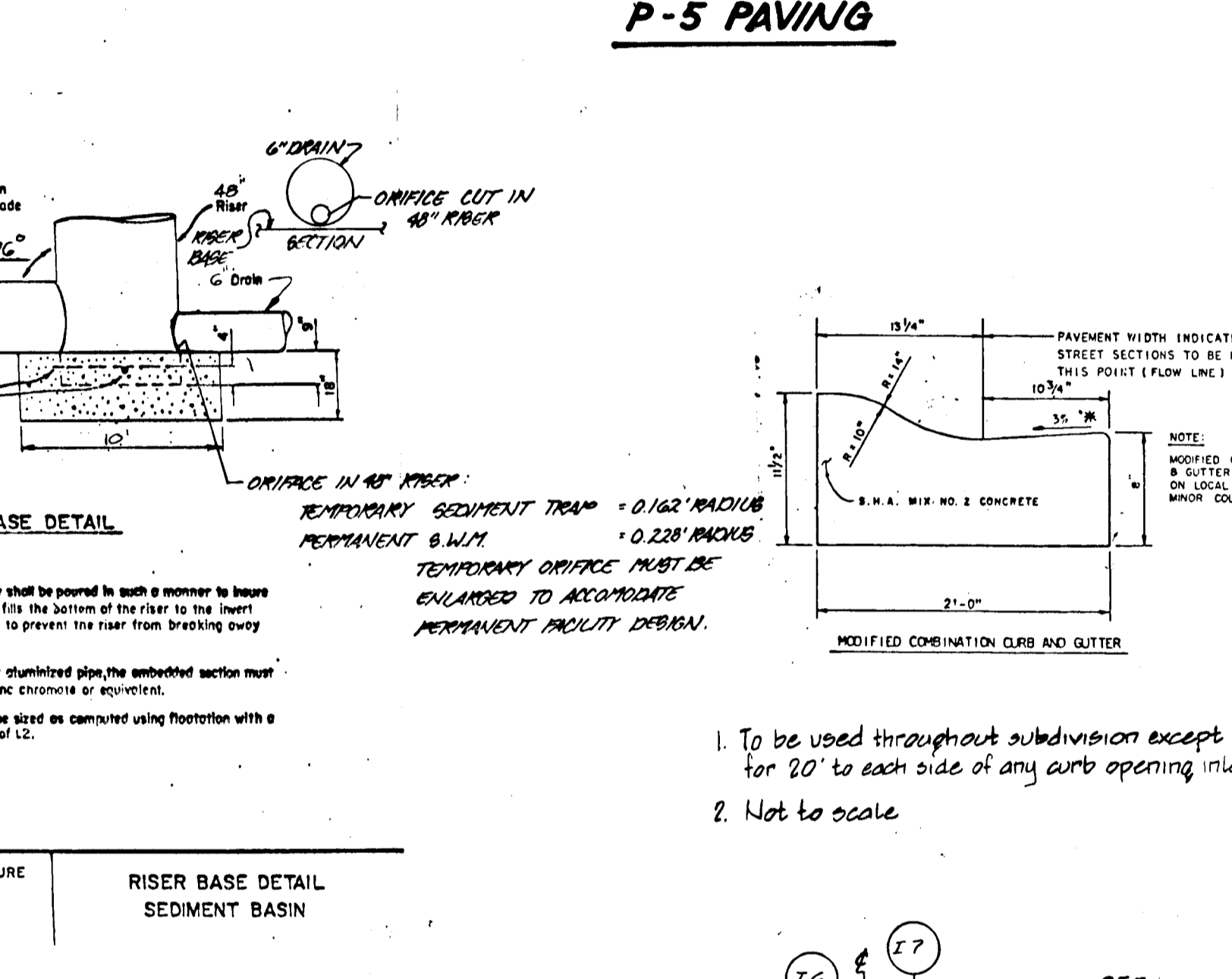
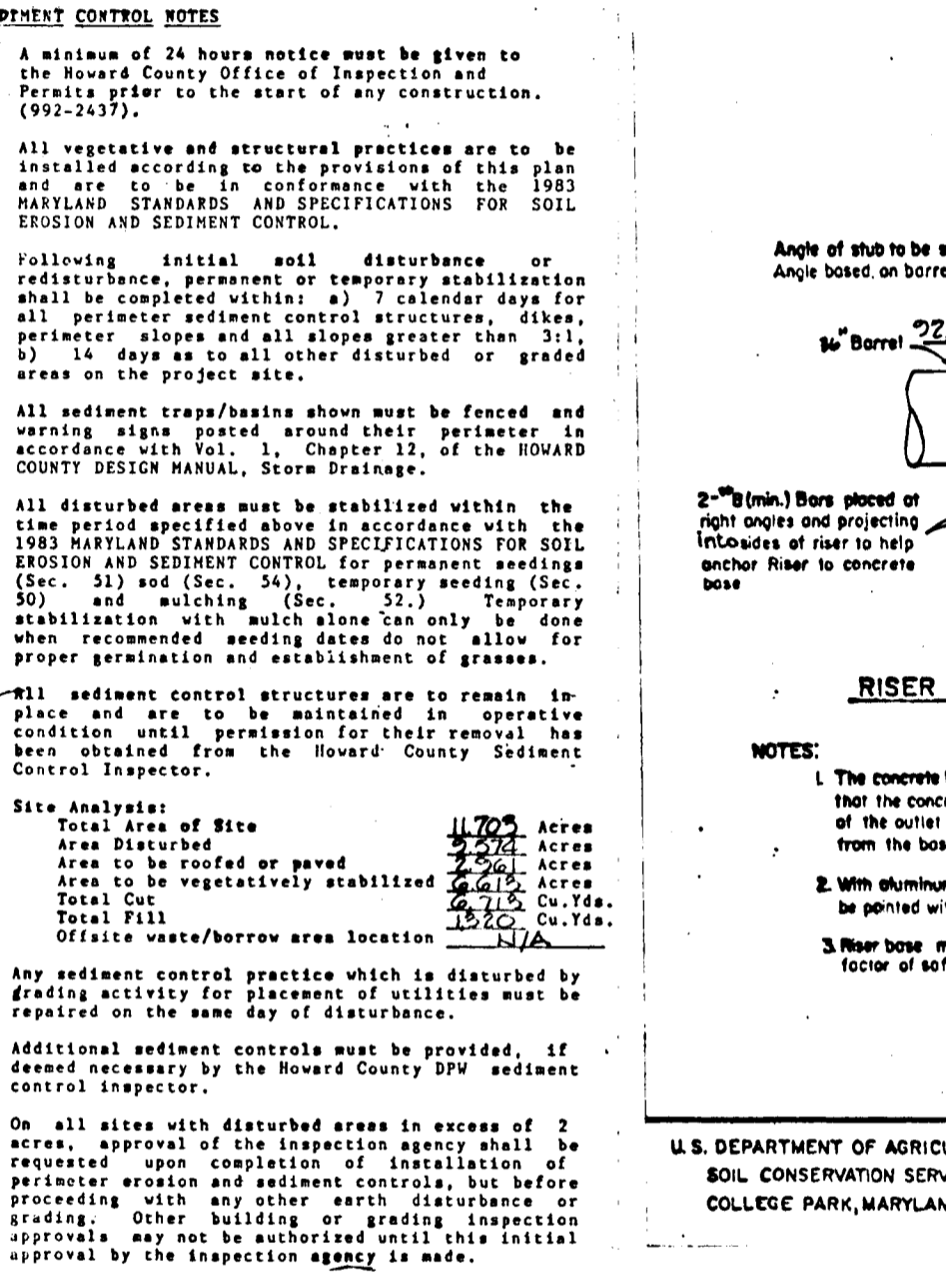
GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT FOR EXISTING UTILITIES AT LEAST FIVE (5) DAYS PRIOR TO STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING WORK SHOWN ON THESE DRAWINGS.
 - MIS UTILITY.....559-0100
 - BELL TELEPHONE SYSTEM.....393-3645
 - LONG DISTANCE CABLE DIVISION.....393-3553/3554
 - BALTIMORE GAS & ELECTRIC COMPANY.....539-8000
 - HOWARD COUNTY BUREAU OF UTILITIES.....932-2366
 - HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK).....792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 30' RADIUS UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION (REVISED).
- PIPE SHALL NOT BE INSTALLED BY CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.
 - WHISKEY BOTTOM ROAD - 40' R/W (MINOR ARTERIAL)
 - KING'S POST COURT - 50' R/W (LOCAL ROAD & CUL-DE-SAC)
 - QUEEN'S POST COURT - 50' R/W (CUL-DE-SAC)
 - JASMINE COURT - 50' R/W (CUL-DE-SAC)
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAYS AND/OR UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R-SC PER 08-02-85 COMPREHENSIVE ZONING PLAN.
- TOPO SHOWN HEREON WAS FIELD RUN BY BENDER ASSOCIATES ON JANUARY 1987.
- NO PIPE SHALL BE LAID IN PLACE UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO WITHIN SIX (6) INCHES OF FINISHED GRADE ELEVATIONS.
- ALL STORM DRAIN PIPE BEING SHALL BE CLASS "B" AS SHOWN IN FIG. 11.4 OF THE HOWARD COUNTY DESIGN MANUAL, VOL. I, UNLESS OTHERWISE NOTED.



REPEATED CONTROL NOTES

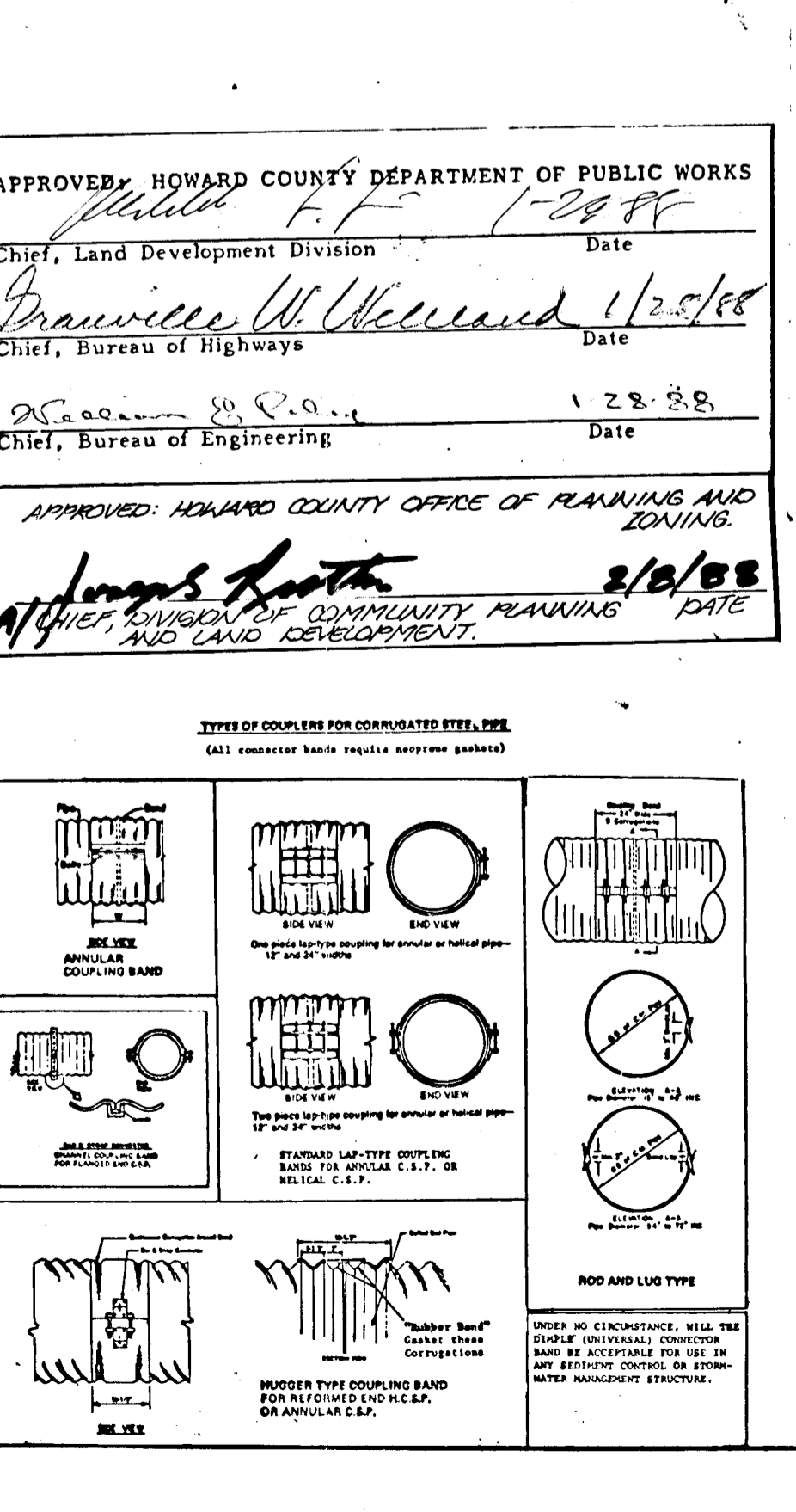
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (08-02-85)
- All vegetative and structural practices are to be installed according to the provisions of this plan and in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or re-disturbance permanent or temporary stabilization shall be completed within a 7 calendar day period for all permanent sediment control structures, ditches, perimeter slopes and all slopes greater than 3:1, 3:1 to 4:1 slope as well as other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and marked with orange flag markers 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. 21) and (Sec. 24); temporary seedings (Sec. 50) and mulching (Sec. 51). Temporary stabilization with mulch alone can only be done when recommended seedings do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and be maintained in an operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 - Total Area of Site: 11.705 Acres
 - Area to be graded or paved: 2.415 Acres
 - Area to be vegetatively stabilized: 9.290 Acres
 - Total Cut: 6.475 Cu.Yds.
 - Total Fill: 15.200 Cu.Yds.
 - Open Area/Borrow Area Location: 1.212 Acres
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the day of disturbing.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW 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.



REPEATED CONTROL NOTES

- The concrete base shall be poured in such a manner to insure that the concrete fills the bottom of the riser to the depth of the riser pipe to prevent the rear from breaking away from the base.
- When aluminum or stainless steel pipe is used, the section must be primed with zinc chromate or equivalent.
- Riser base may be diked as shown using flotation with a factor of safety of 1.2.

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



DEVELOPER'S CERTIFICATE

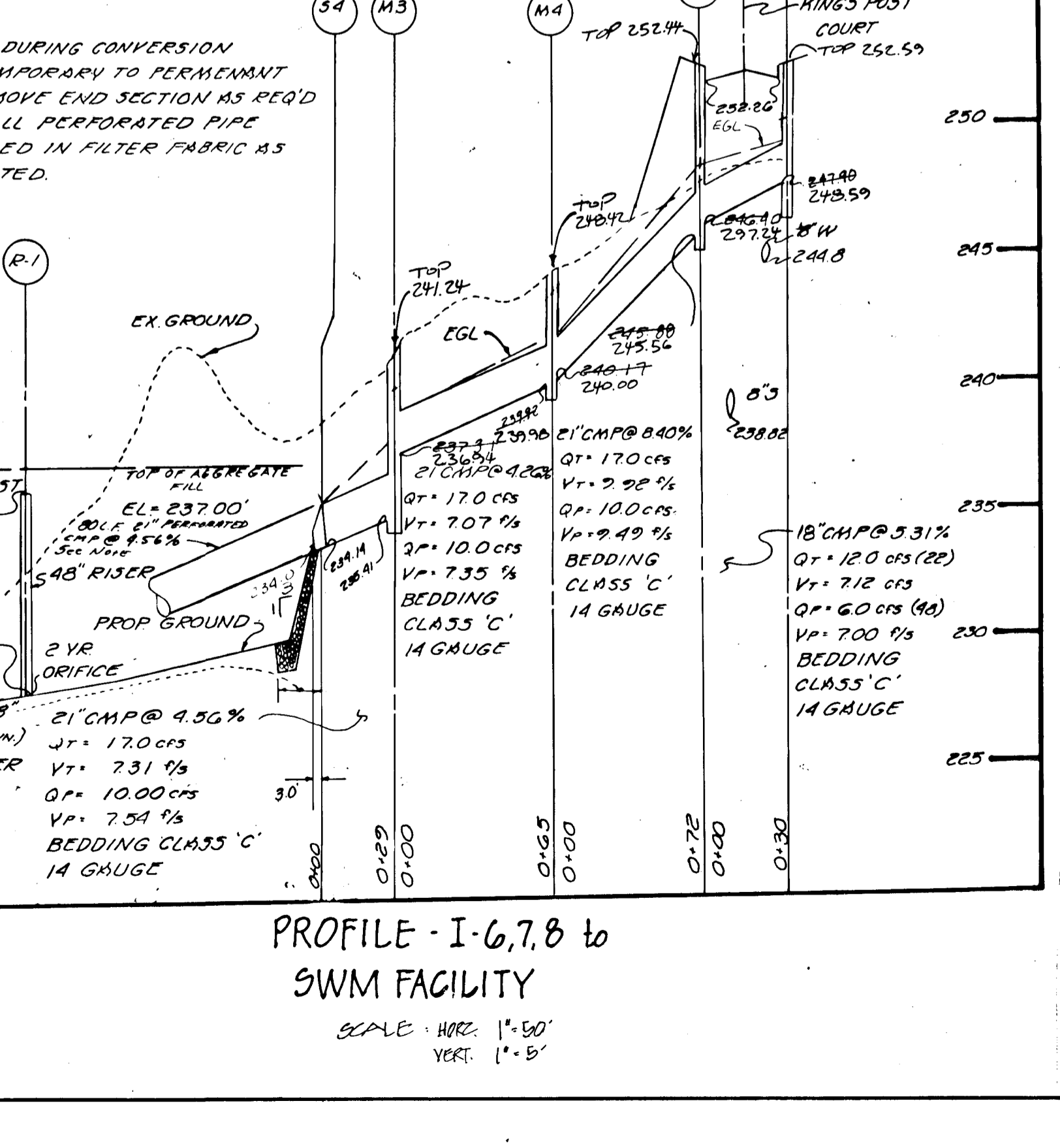
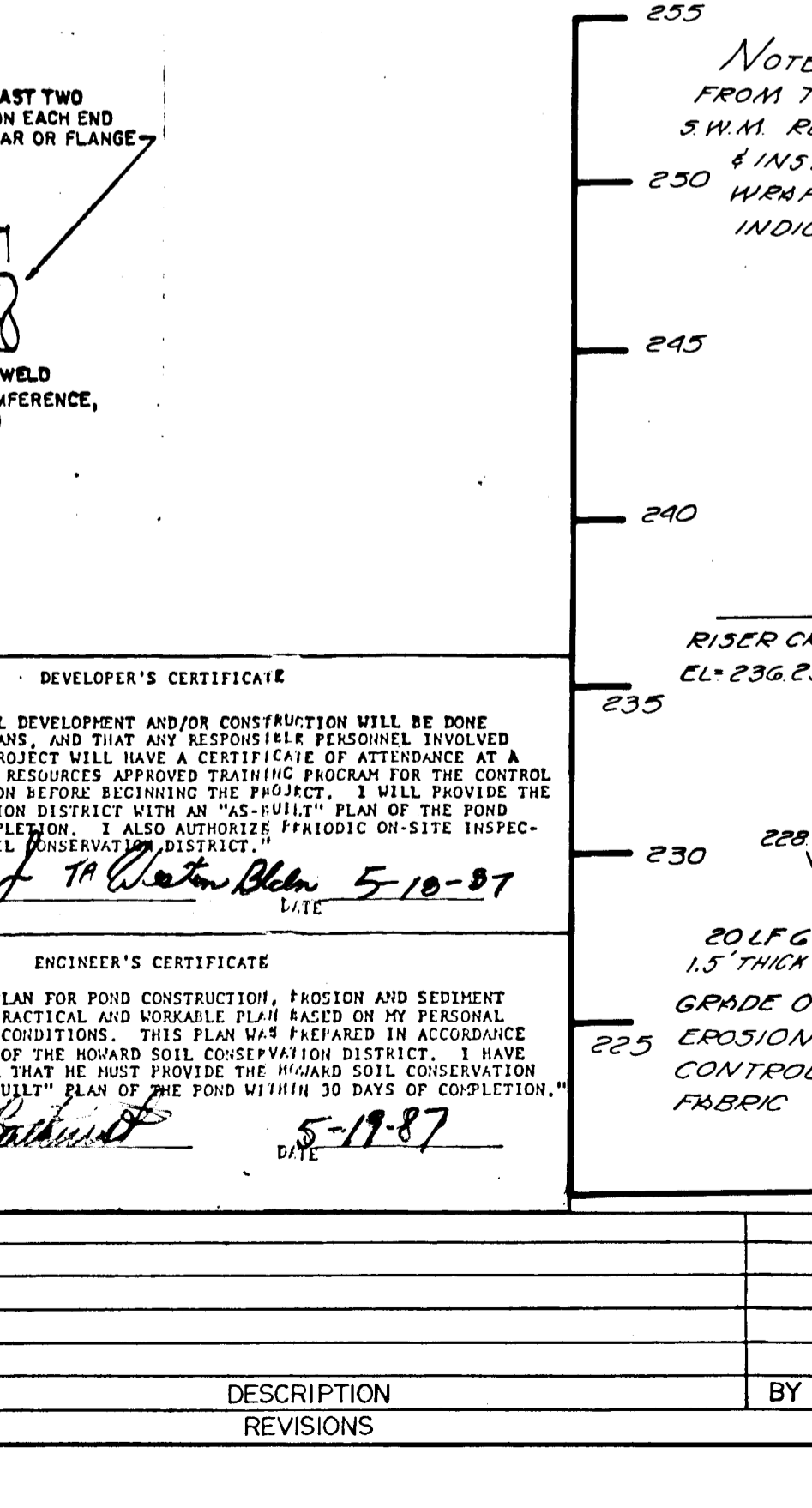
"I HAVE CERTIFIED THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD COUNTY DEPARTMENT OF NATURAL RESOURCES WITH A COPY OF THIS CERTIFICATE BY THE HOWARD COUNTY DEPARTMENT OF NATURAL RESOURCES OFFICE."

Developer: *John A. Blum* DATE: 5-10-87

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, PROXIM AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND Viable PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF NATURAL RESOURCES. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD COUNTY DEPARTMENT OF NATURAL RESOURCES WITH A COPY OF THIS PLAN WITHIN 30 DAYS OF COMPLETION OF THE PROJECT."

Engineer: *John A. Blum* DATE: 5-19-87



DEVELOPER

WESTIN BUILDERS
2101 CHERRY TREE LANE
SUITE 10B
LAUREL, MD. 20708

OWNER

WHISKEY BOTTOM JOINT VENTURE
2101 CHERRY TREE LANE
SUITE 10B
LAUREL, MD. 20708

DETAILS

PROJECT: STRATFORD DOWNS
LOCATION: TAX MAP 97, PARCEL 776; TAX MAP 98, PARCEL 436, 07 & 7 FILE NO. 8-6-82
GTH: ELECTION DISTRICT HOWARD CO., MD.

SCALE: DESIGNED BY: CHECKED BY: DATE: APRIL 1987
AS NOTED: J.H. A.B.M. L.B.

FIELD BOOK: PAGE NO.: JOB NO.: 80005 DRAWING NO.: 7 OF 7

AS-BUILT DEC. 16, 1991 F-88-35

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