

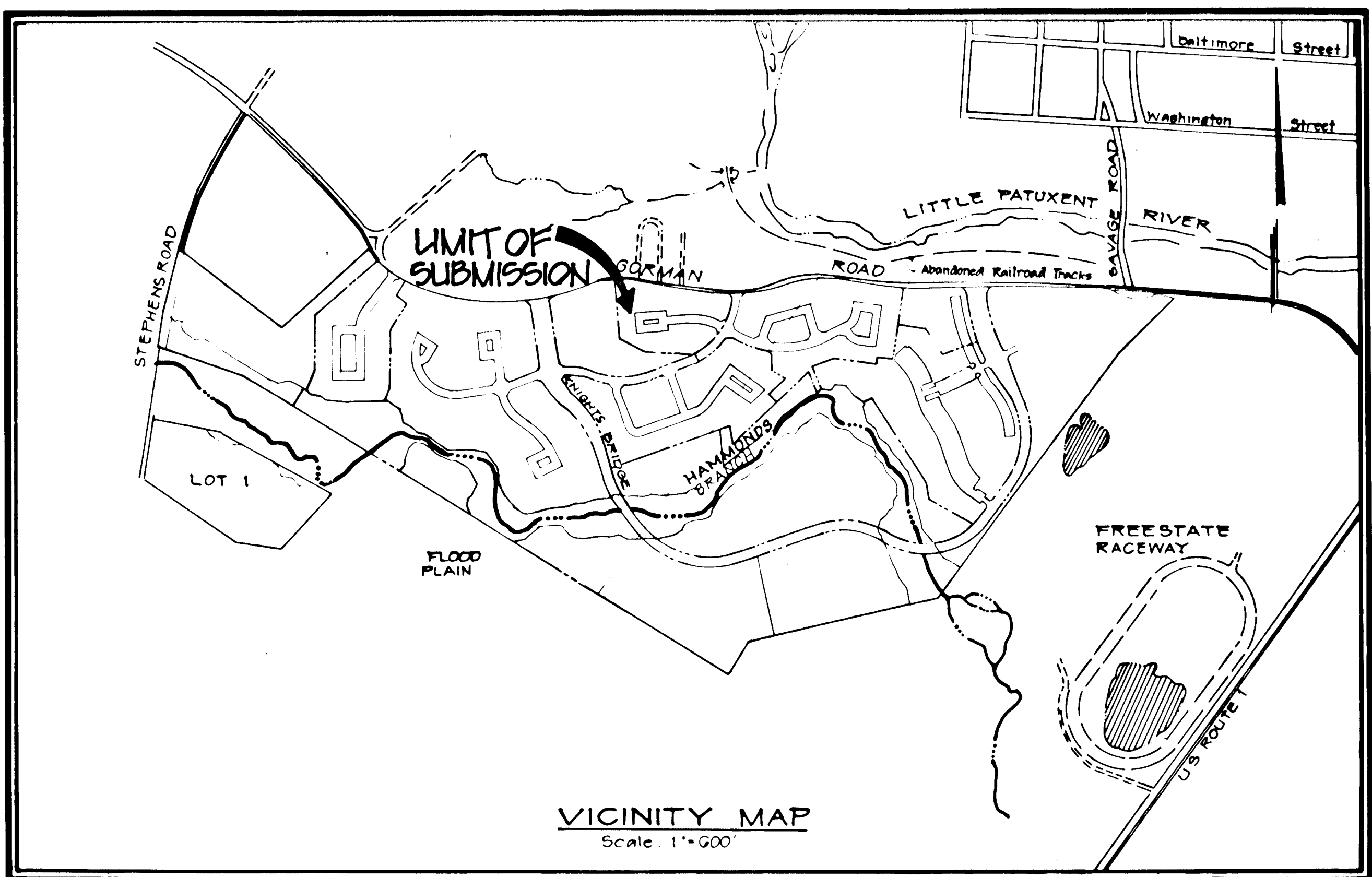
STRUCTURAL SCHEDULE							
NO.	TYPE	INV. IN	INV. OUT	UPPER END	LOWER END	HO. CO. STD.	LOCATION
I-1	A-5	---	249.20	254.30	254.30	S.D. 4.01	7+00.40
I-2	A-5	---	250.00	254.40	254.40	S.D. 4.01	4+25.40
I-3	A-5	---	235.50	238.68	238.58	S.D. 4.01	0+41.50
WQ-1	WATER QUALITY	235.10	234.90	239.18	238.58	SEE DETAIL SHEET 3	0+54.50
M-1	MANHOLE	243.24	246.00	---	252.20	G 5.01	3+80.00
M-2	MANHOLE	236.42	236.30	---	240.15	G 5.05	1+37.00

BOWLING BROOK FARMS

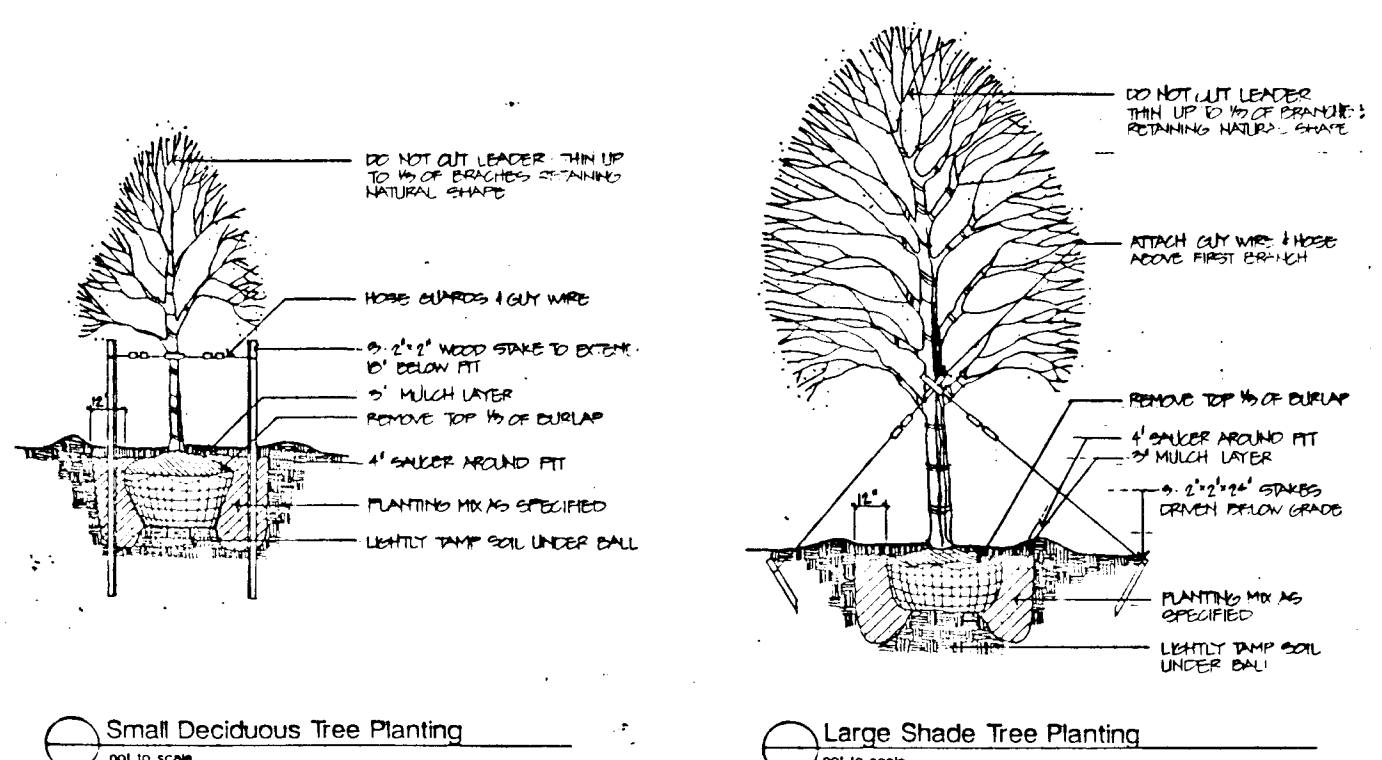
PARCEL F

LOTS F-1 THRU F-42

PIPE SCHEDULE			
DIA.	MATERIAL	CLASS	LENGHT(FT)
15"	CMP	10 GA.	420'
18"	CMP	10 GA.	30'



- GENERAL NOTES
- THE APPROXIMATE LOCATION OF ALL UTILITIES IS SHOWN BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL LOCATE, PROTECT AND SUPPORT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER/INSPECTOR, AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC COMPANY - 561-2585 (CONTRACTOR SERVICES)
 - BALTIMORE GAS & ELECTRIC COMPANY - 234-6313 (UNDERGROUND DAMAGE CONTROL)
 - BALTIMORE GAS & ELECTRIC COMPANY - 298-9813 (TROUBLE SHOOTING)
 - "MISS UTILITY" - 800-257-7777
 - CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - 725-9976
 - BUREAU OF UTILITIES/HOWARD COUNTY - 992-2366
 - ALL DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
 - ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS AND HOWARD COUNTY DESIGN MANUAL, VOLUME IV.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - TREES SHALL BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT POSSIBLE. TREES SIX INCH (6") DIAMETER OR GREATER (MEASURED FOUR FEET (4') ABOVE EXISTING GRADE) ADJACENT TO THE LIMITS OF CONSTRUCTION SHALL NOT BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE PLANE COORDINATES SYSTEM PROVIDED BY HOWARD COUNTY.
 - TOPOGRAPHY TAKEN FROM MAPS PREPARED BY PHOTOGRAMMETRY BY "AERIAL SURVEYS" IN 1984. TOPOGRAPHY FIELD CHECKED 1986.
 - ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12" CLEAR. CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR EXCAVATION AND SHALL BE INCLUDED IN UNIT PRICES BID FOR EXCAVATION BACKFILL.
 - ALL PIPE BEDDING SHALL BE CLASS C.
 - ROAD RIGHT-OF-WAY INFORMATION IS SHOWN ON THE RECORD PLATS.
 - SPOT ELEVATIONS SHOWN ARE TOP OF CURB UNLESS OTHERWISE NOTED.
 - SHADED AREAS INDICATE WATER, SEWER, UTILITY, DRAINAGE AND/OR ACCESS EASEMENT(S).



LEGEND

STORM DRAIN PROPOSED & PROPOSED R/W LIMITS OF SUBMISSION EASEMENT PROPOSED SIDEWALK EXISTING SIDEWALK HCR NO. OF PARKING SPACES IN PARKING BAY

100 WATT HIGH PRESSURE SODIUM VAPOR FOOT TYPE TRADITIONAL MOUNTED ON 1/2" BLACK FIBERGLASS POLE

OF ROAD CURVE NUMBER OF ROAD TANGENT NUMBER

HANDICAP RAMP

PAVING AND STORM DRAIN CONSTRUCTION PLAN

HOWARD COUNTY, MARYLAND

- LANDSCAPING NOTES
- Contractor shall verify location of all underground utilities prior to planting (see note #3 on sheet #1).
 - All plant material and planting shall be in accordance with "American standard for nursery stock" by the A.A.N.
 - Substitutions may be permitted with the approval of the landscape architect, (762-2220).
 - Place "Greenspine Linden", "Willow Oak" and "Yoshino Cherry" at radius points on the parking islands or 5' behind the sidewalk along the roadways as shown.
 - Place "Acerrubrum" 3' behind sidewalk, or as shown.

PLANT SCHEDULE				
KEY	PLANT NAME	SIZE	QUANTITY	REMARKS
Ar	Acer rubrum Red Maple	2 1/2" Cal. 13' - 15'	11	B & B
Py	Prunus yedoensis Yoshino Cherry	1 3/4" - 2" Cal.	9	B & B
Qph	Quercus phellas Willow Oak	2 1/2" Cal. 11' - 13'	5	B & B
Tc	Tilia cordata "Greenspire" Greenspire Linden	2" Cal. 12' - 14'	9	B & B

- INDEX TO DRAWINGS
- TITLE SHEET
 - STREET GRADE PLAN & PROFILE - SOMBERSBY COURT
 - SECTIONS, DETAILS & PROFILES
 - DRAINAGE AREA MAP
 - EROSION AND SEDIMENT CONTROL PLAN
 - EROSION AND SEDIMENT CONTROL DETAILS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

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

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING

OWNER/DEVELOPER
 GORMAN ROAD LIMITED PARTNERSHIP
 C/O JAMES F. KNOTT DEVELOPMENT CORPORATION
 110 WEST ROAD, SUITE 203
 TOWSON MARYLAND 21204
 (801) 321-6436

NO.	DESCRIPTION	DATE	APPROVED	DATE
4	ADDED STREET LIGHTS	3/20/89		
3	REV PER HO CO COMMENTS	11/89		
2	REVISED PER HO CO COMMENTS	7/18/89		
1	ISSUED FOR REVIEW	5-10-89		

TITLE SHEET

REVISION APPROVED BY

PROFESSIONAL SEAL

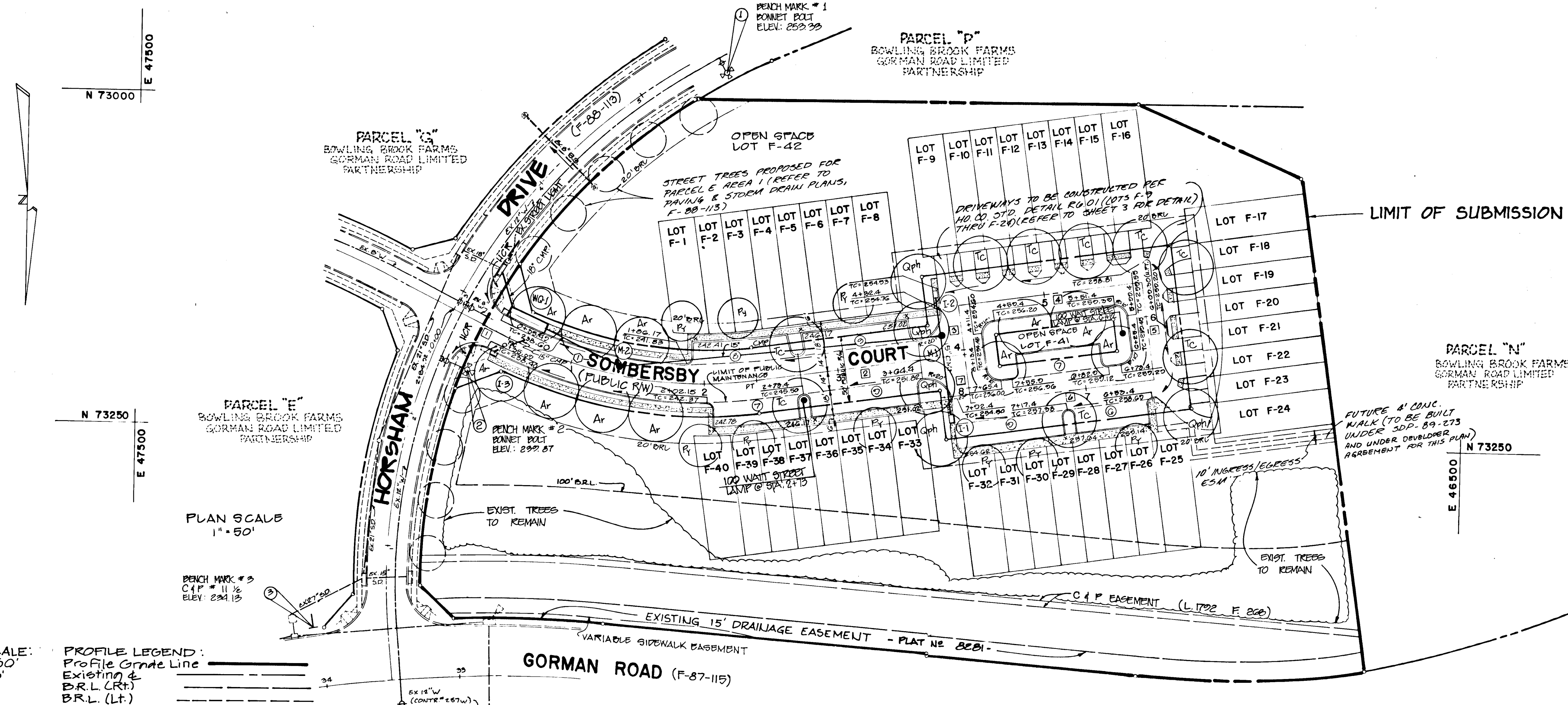
Patton Harris Rust and Associates
 A Professional Corporation
 Engineers, Surveyors, Planners and Landscape Architects
 7609 Standish Place Rockville, Maryland 20855 (301)762-2220

BOWLING BROOK FARMS

A RESUBDIVISION OF PARCEL F.
 LOTS F-1 THRU F-42
 TAX MAP 47 PARCEL 141
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY DATE: 5-10-89
 DESIGN KOR
 DRAWN PC SHEET: 1 OF 6
 CHECKED
 SCALE AS SHOWN FILE NO. 2184-1-G
 F-89-227

237218



C/L BEARINGS AND DISTANCES			
	BEARING	DISTANCE	STATION
1	N 8°41'07" W	47.00'	0+00.00 0+47.00
2	S 8°14'42" W	158.56'	2+39.81 3+98.40
3	S 8°45'18" E	37.00'	3+98.40 4+35.40
4	S 8°14'42" W	140.00'	4+35.40 5+75.40
5	N 8°45'18" W	74.00'	5+75.40 6+49.40
6	N 8°14'42" E	140.00'	6+49.40 7+89.40
7	S 8°45'18" E	37.00'	7+89.40 8+26.40

C/L CURVE DATA						
	P.C. TO P.T.	RADIUS	Δ	ARC LENGTH	TANGENT	CHORD BEARING
1	0+47.00 2+39.81	315	35°04'11"	192.81	99.53'	N 81°13'12" W

NOTE: ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
ALL ISLANDS ARE 10' MIN.
ALL DRIVEWAYS TO BE CONSTRUCTED PER HO. CO. STD. DETAIL R.G.O.1 (SEE SHEET 3 FOR DETAIL)

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

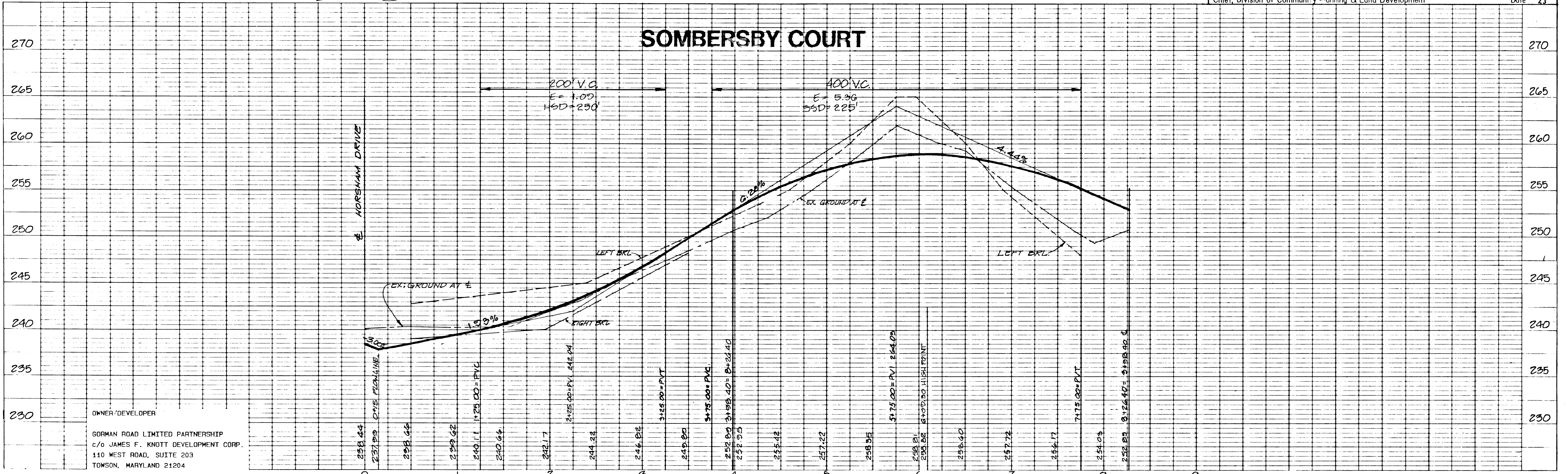
Donald J. Spain 12/6/89
Chief, Land Development Division Date

Frankville W. McLeod 11/30/89
Chief, Bureau of Highways Date

James E. Ryan 1-17-90
Chief, Bureau of Engineering Date

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

David S. Taylor 1/5/90
Chief, Division of Community Planning & Land Development Date



1202

NO.	DESCRIPTION	DATE	APPROVED	DATE
4	ADDED STREET LIGHTS	5-28-89		
3	REV. PER HO. CO. COMMENTS	11-89		
2	REVISED PER HO. CO. COMMENTS	7-18-89		
1	ISSUED FOR REVIEW	5-10-89		

REVISION APPROVED BY



REVISED

PAVING AND STORM DRAIN CONSTRUCTION PLANS

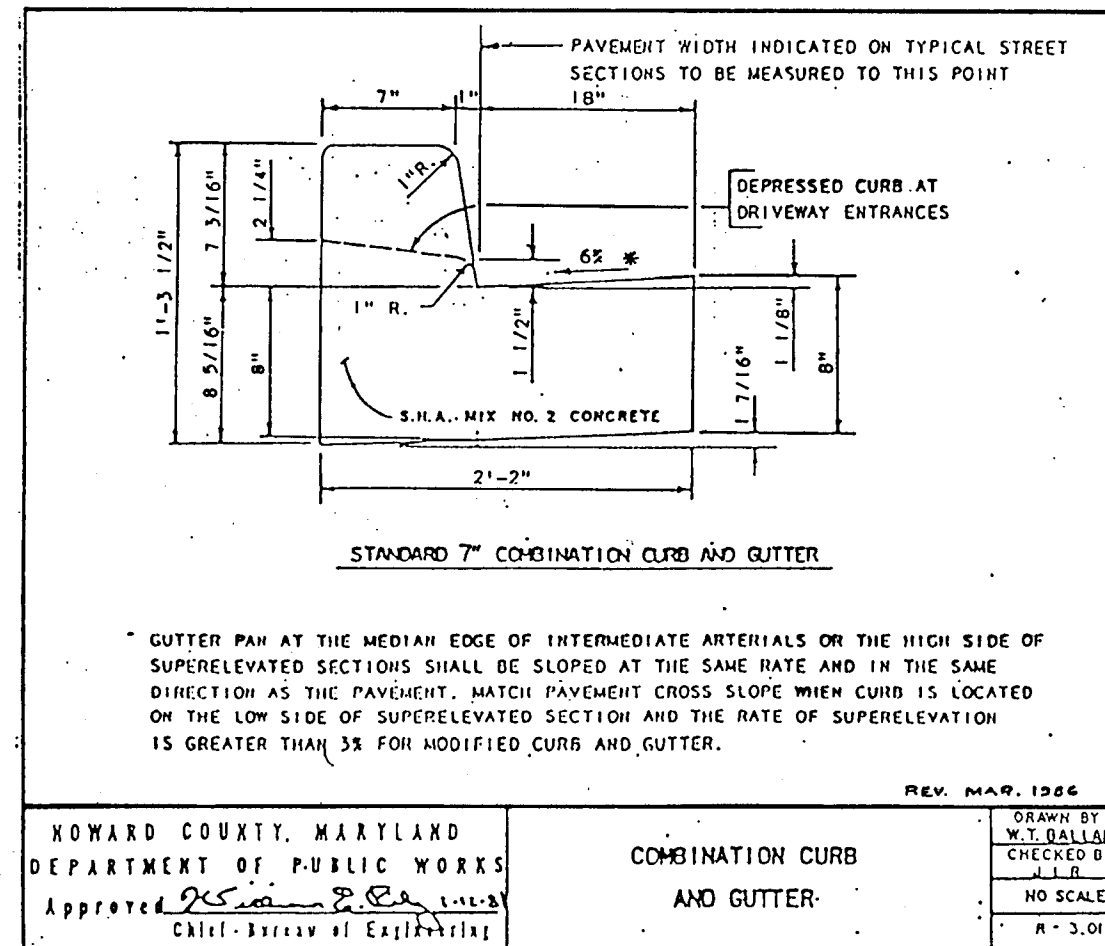
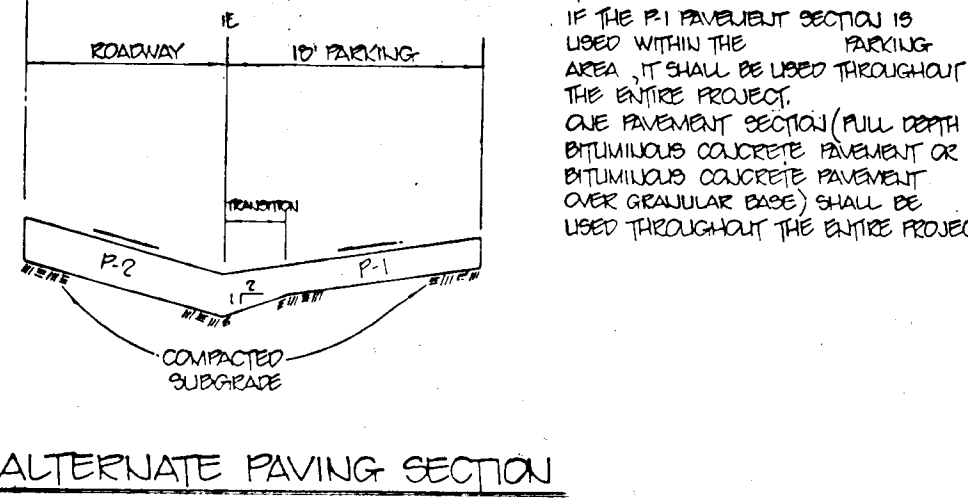
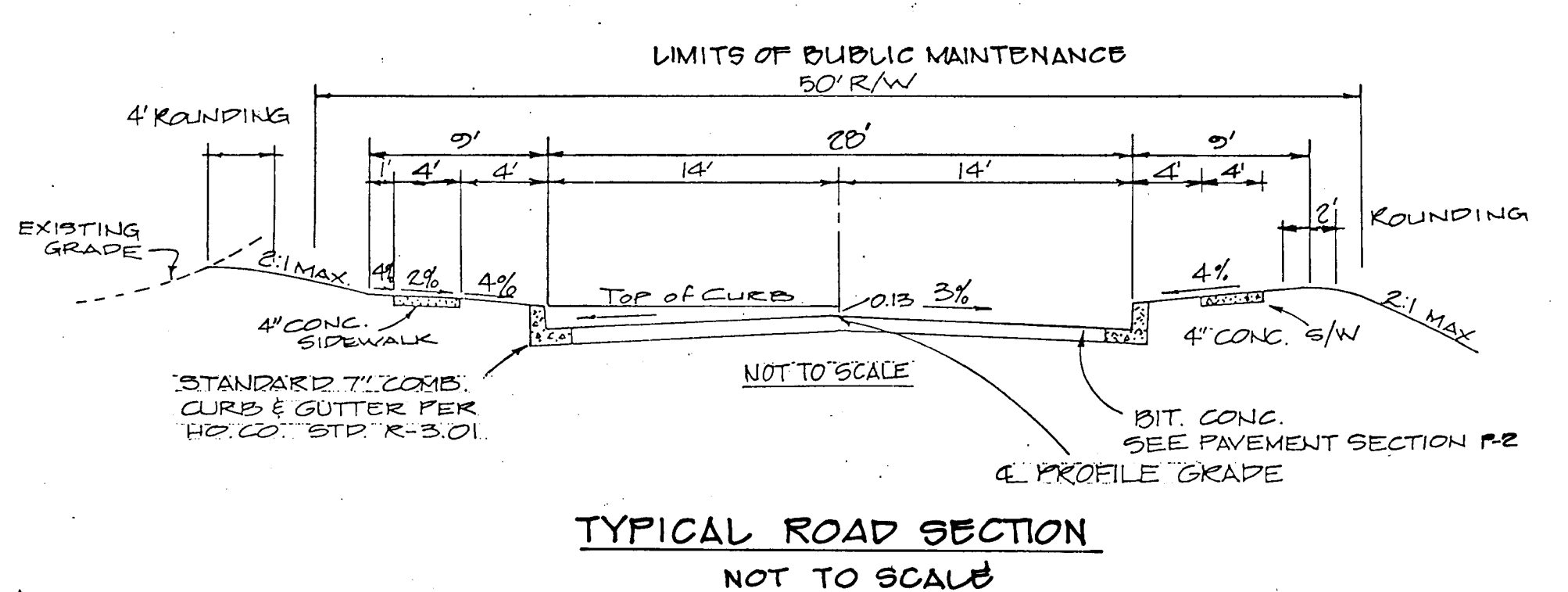
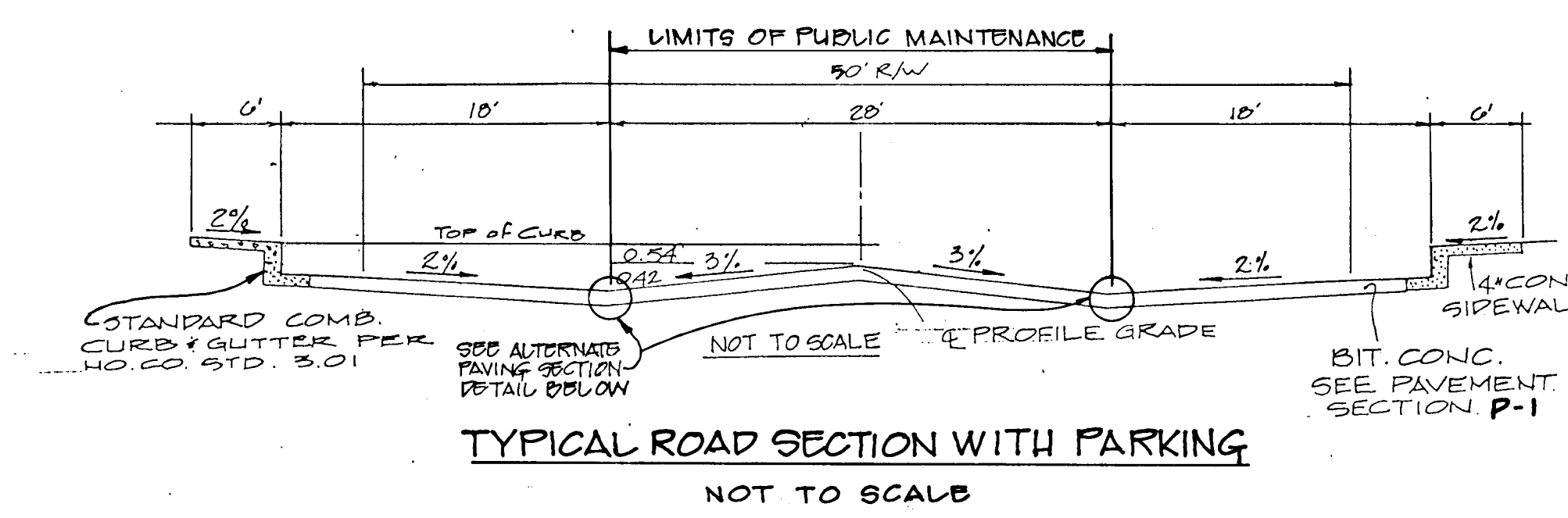
SOMBERSBY COURT

Patton Harris Rust and Associates
A Professional Corporation
Engineers, Surveyors, Planners and Landscape Architects
7609 Standish Place, Rockville, MD 20855 (301) 762-2220

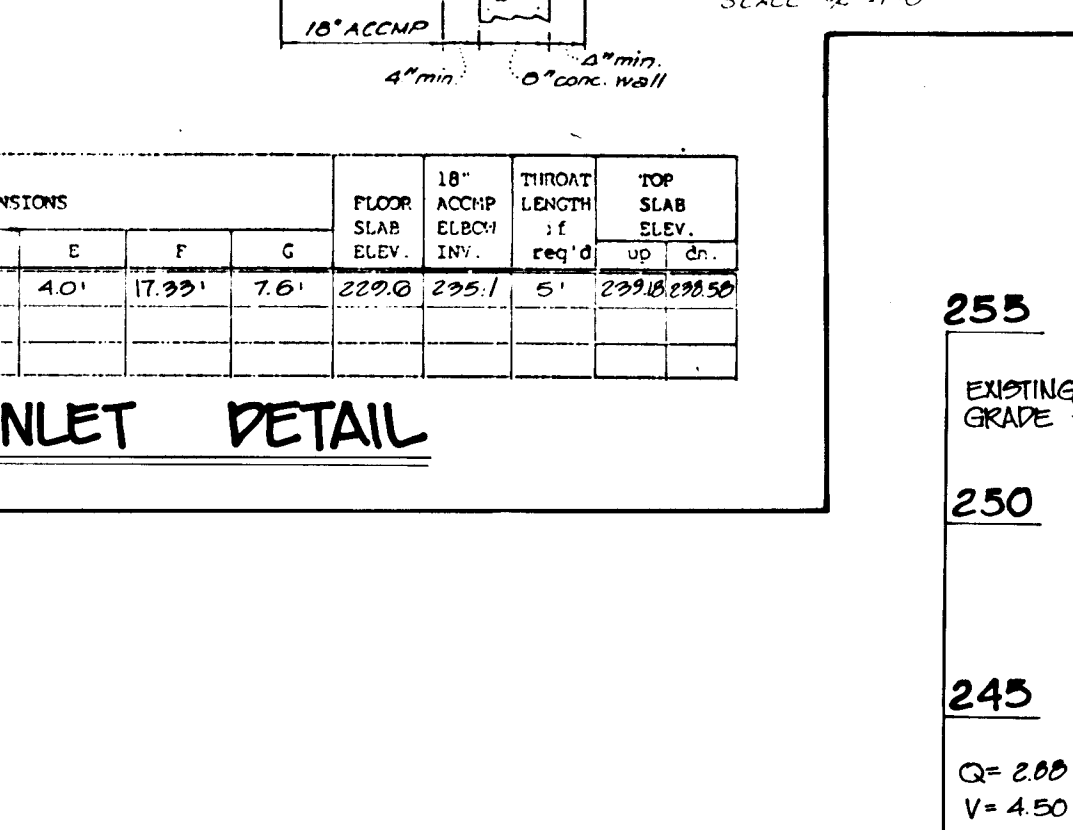
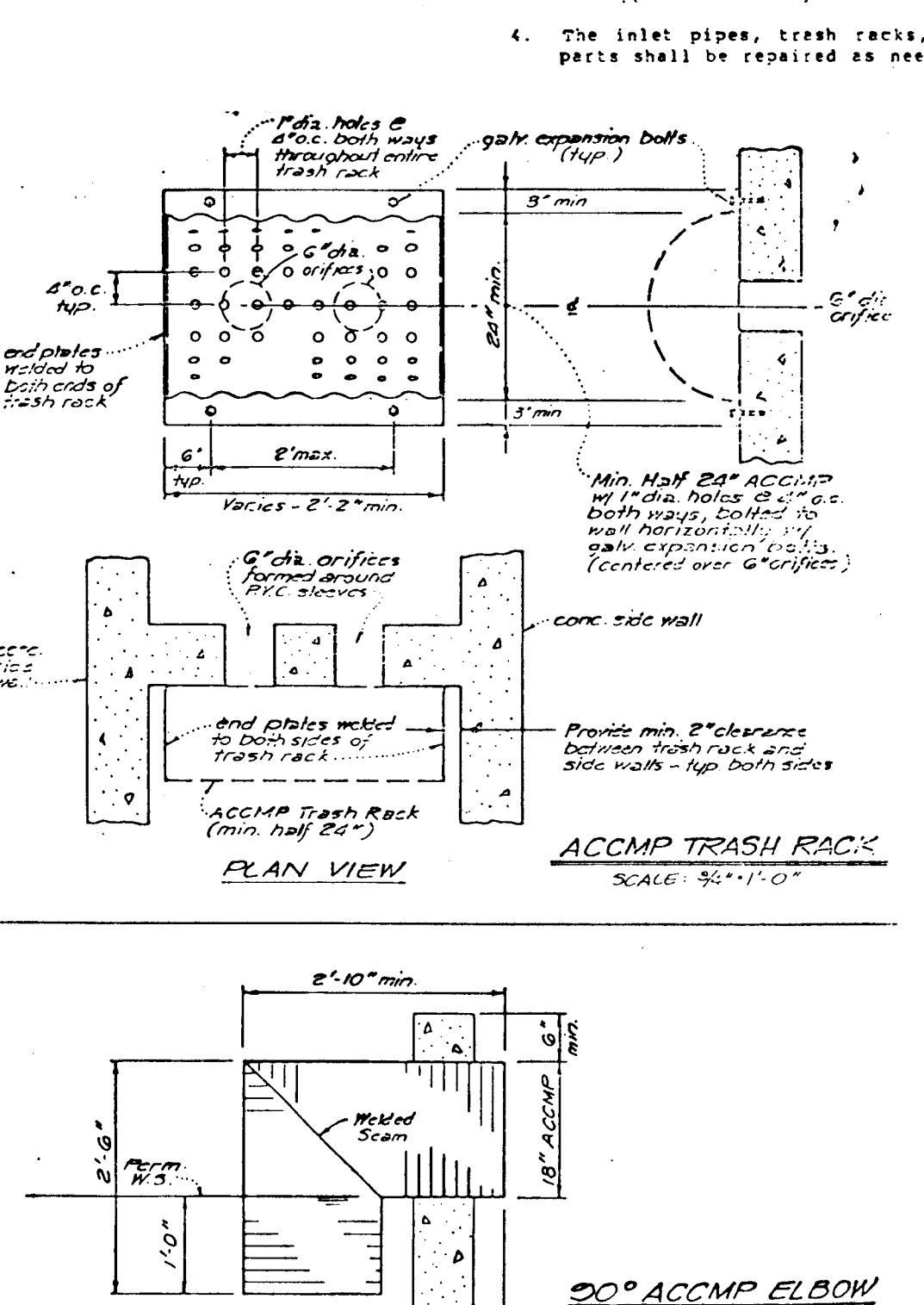
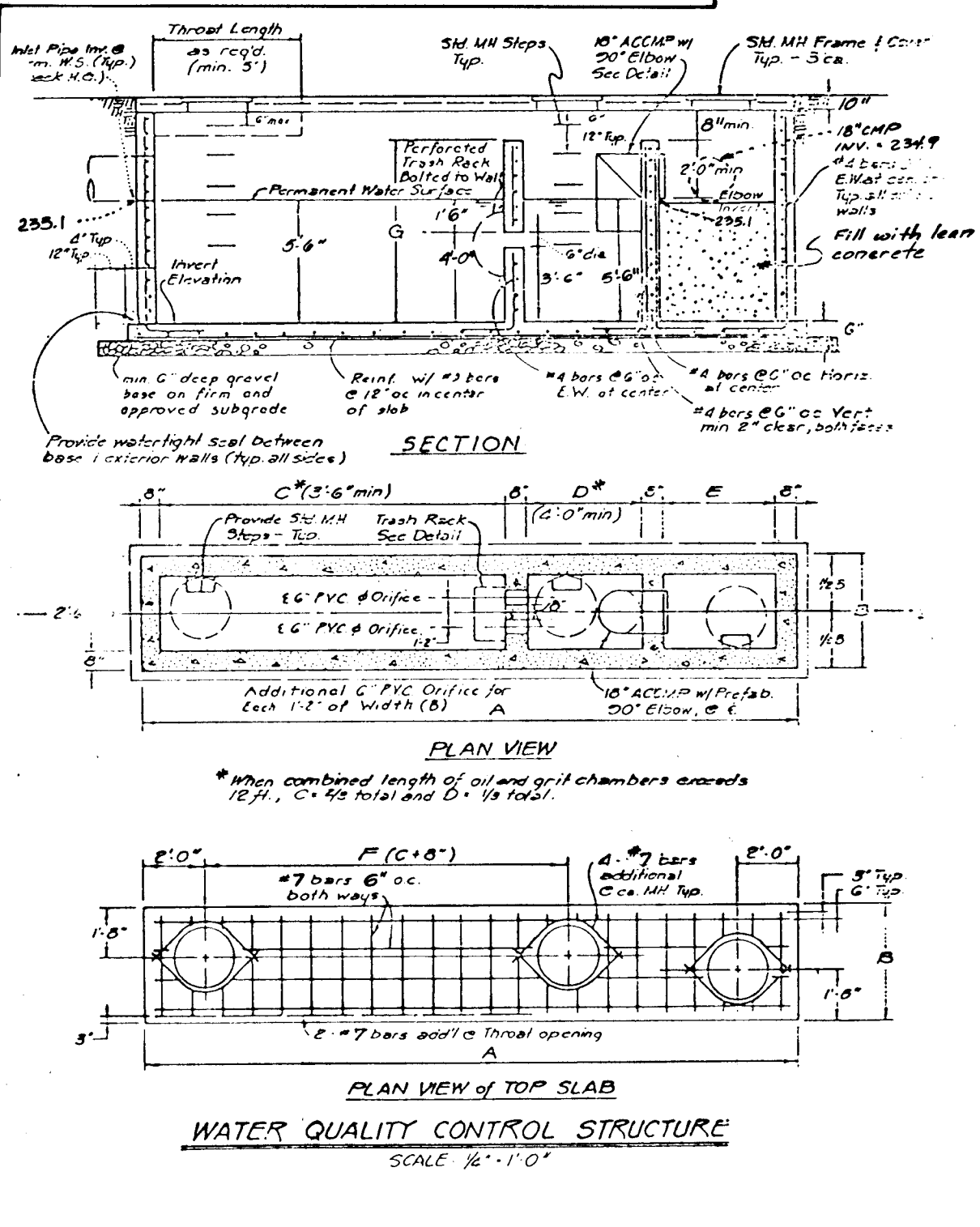
BOWLING BROOK FARMS

A RESUBDIVISION OF PARCEL F
LOTS F-1 THRU F-42
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY — DATE 5-10-89
DESIGN KOR SHEET 2 OF 6
DRAWN JDPW FC
CHECKED
SCALE AS SHOWN FILE NO. 2184-1-G
C.I. —



SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS
P-1	PARKING AREAS AND TRAVELWAYS, APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1\"/>
P-2	RESIDENTIAL ZONES, LOCAL DRIVEWAYS, ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS, PARKING AREAS, APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY	1\"/>



STRUCT. NUMBER	DRAIN AREA	VOL. REQ'D	VOL. PROV'D	DIMENSIONS							FLOOR SLAB ELEV.	18\"/>		
				A	B	C	D	E	F	G				
WQ-1	373.4	1292 CF	1267 CF	9.07'	8.0'	12.07'	8.33'	4.0'	17.33'	7.6'	229.0	235.1	5'	239.8

DESIGN AND GENERAL NOTES:

- Use poured-in place concrete for the entire structure.
- Refer to Maryland State Highway Administration for materials and methods of construction.
- Wall thickness shall be as follows:
Minimum 8 inches thick for the face 4\"/>

CONSTRUCTION NOTES:

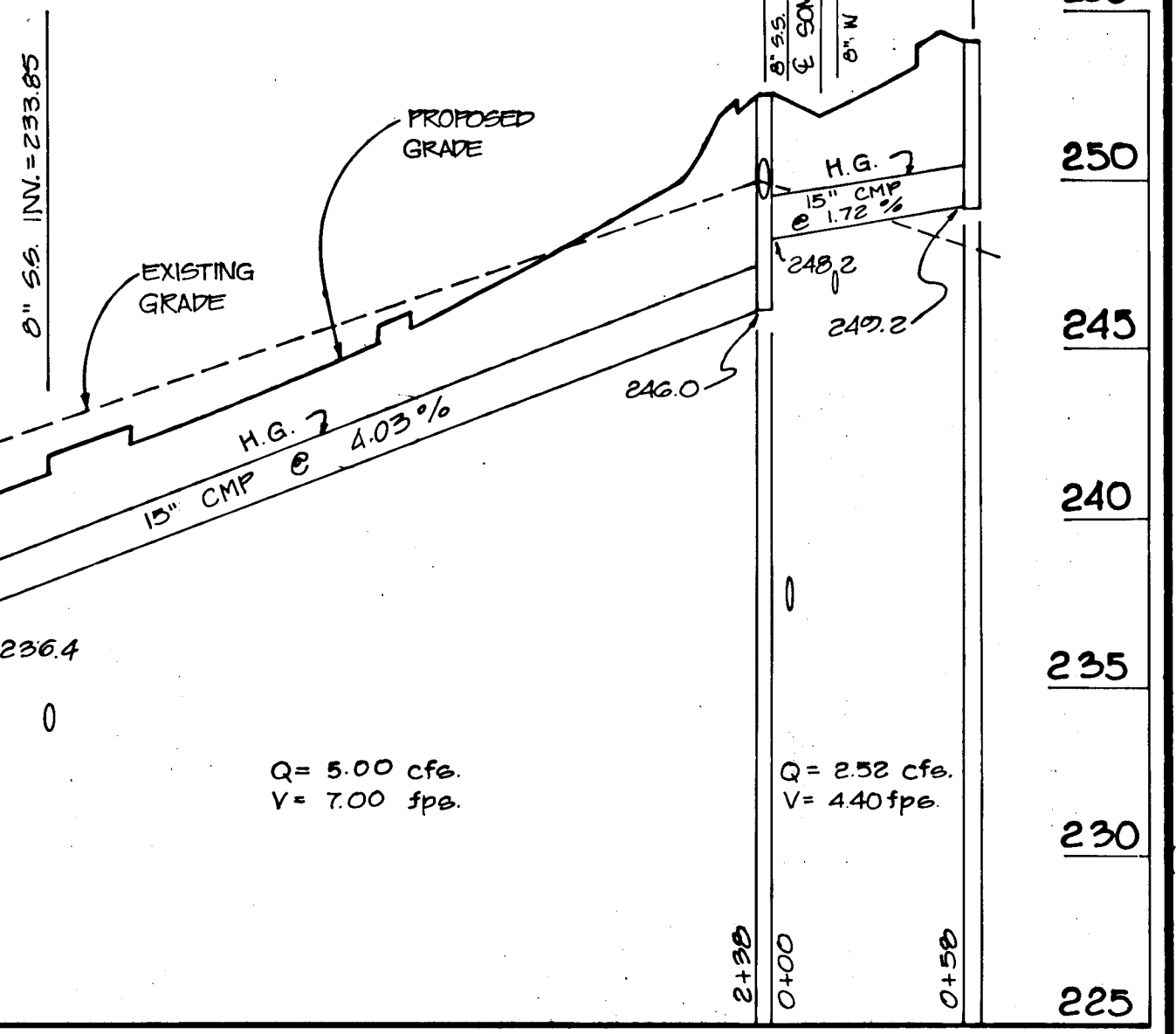
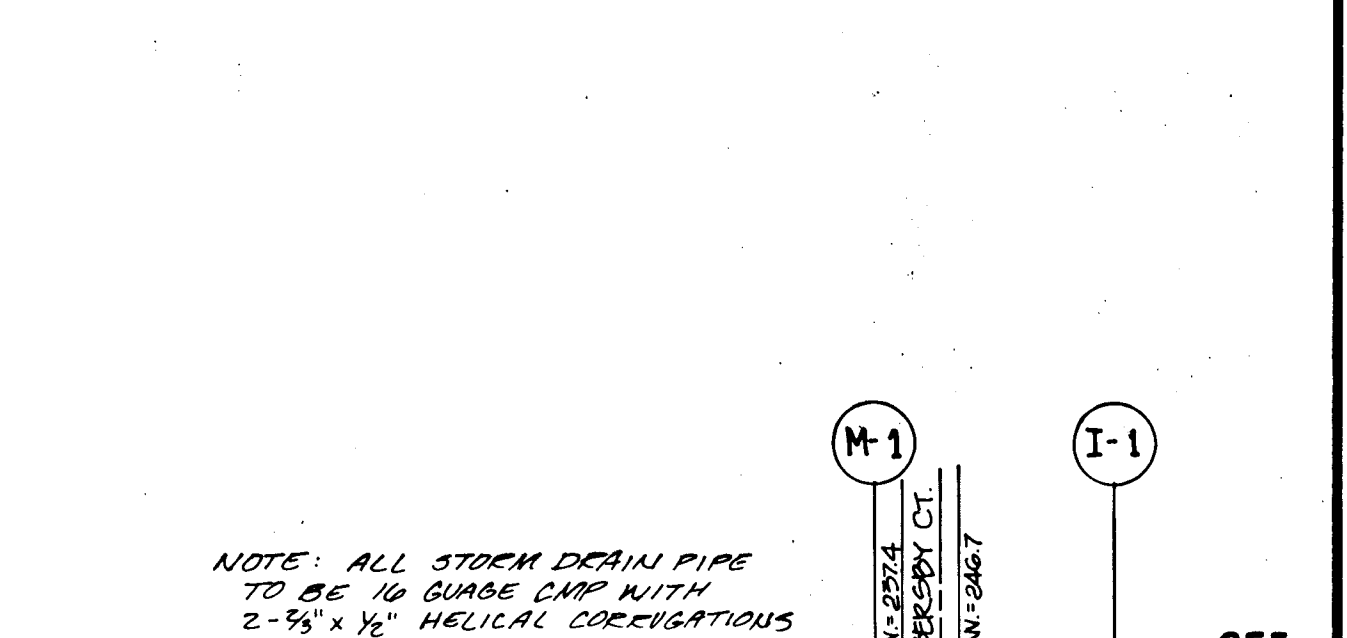
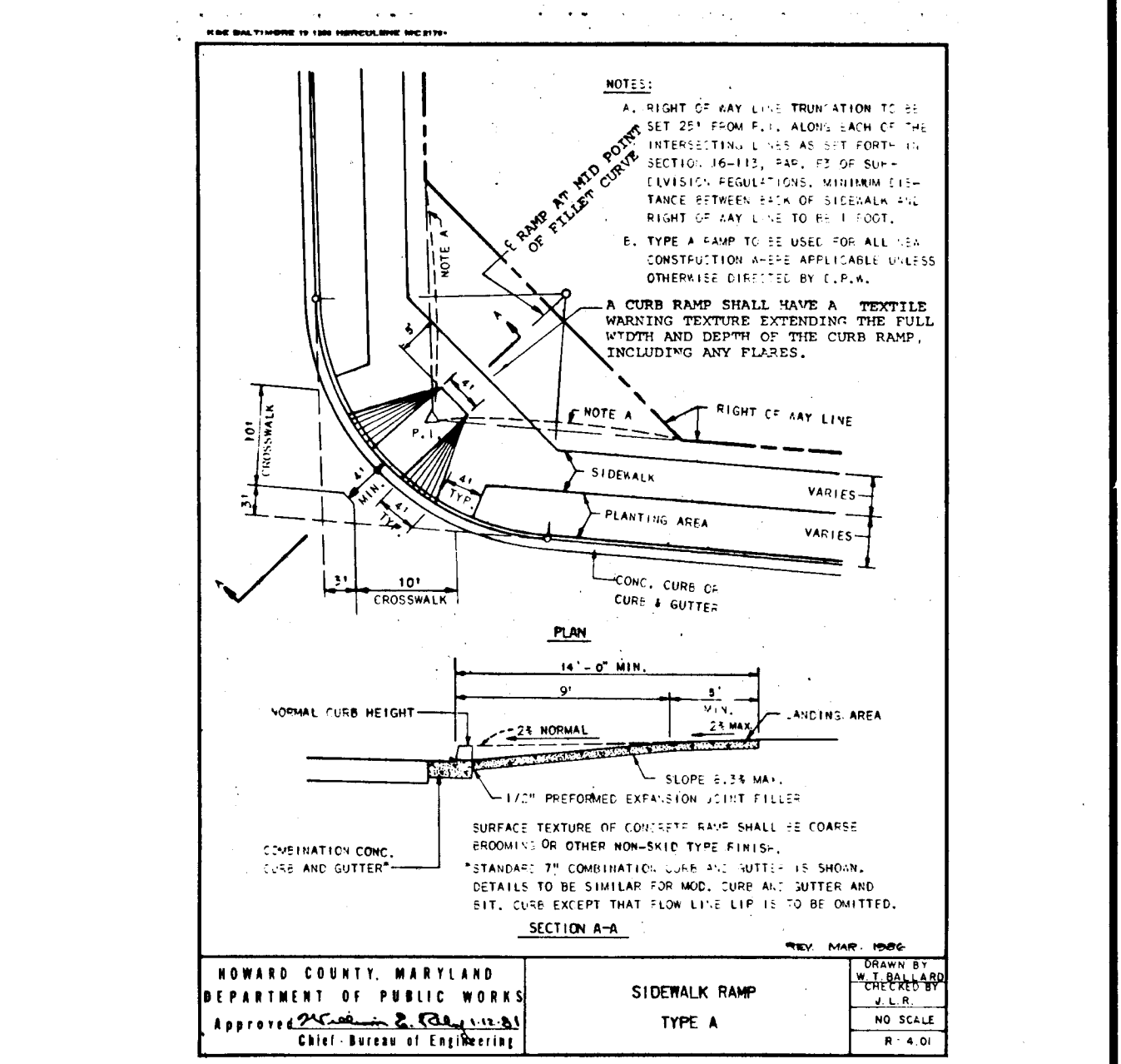
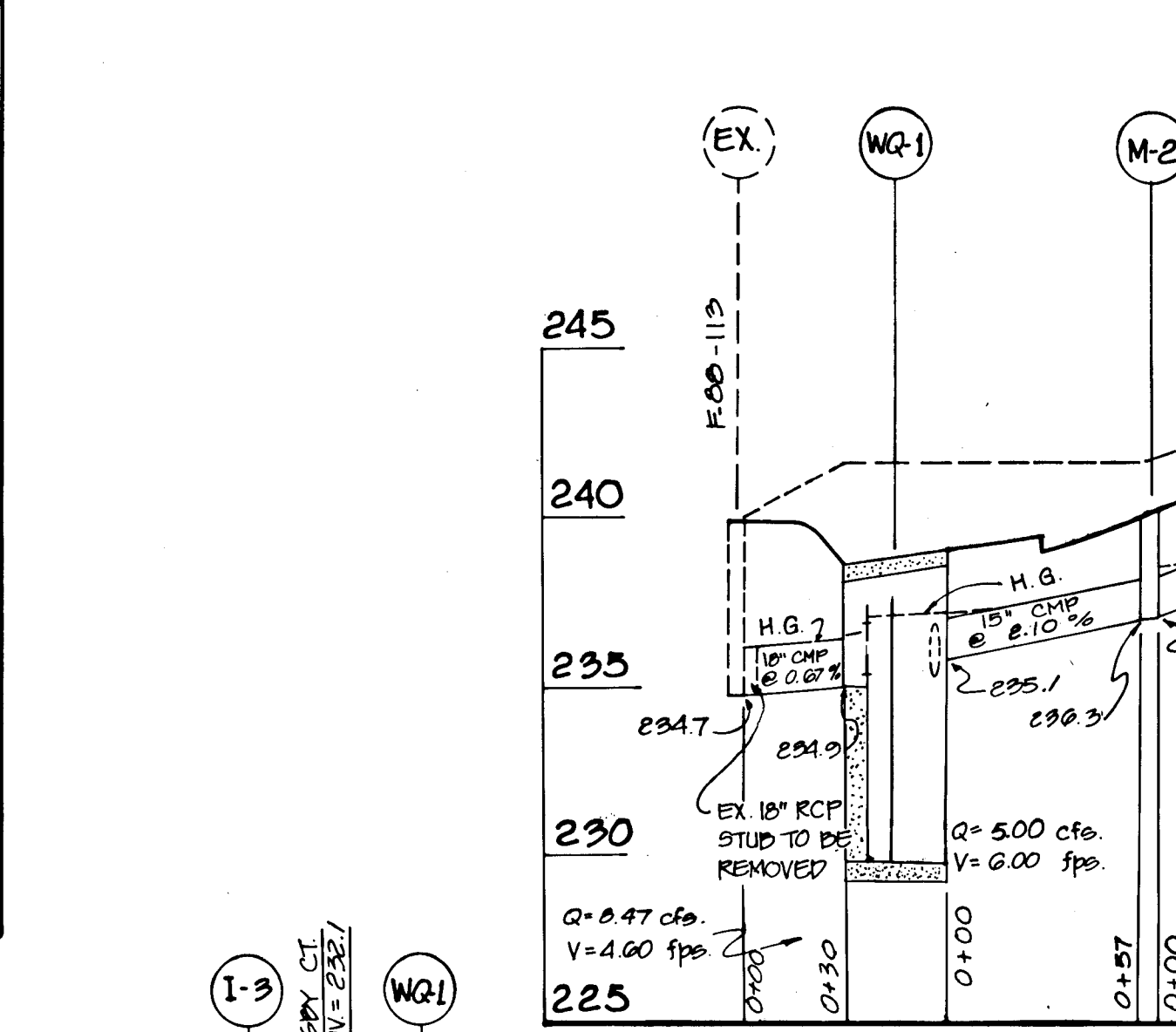
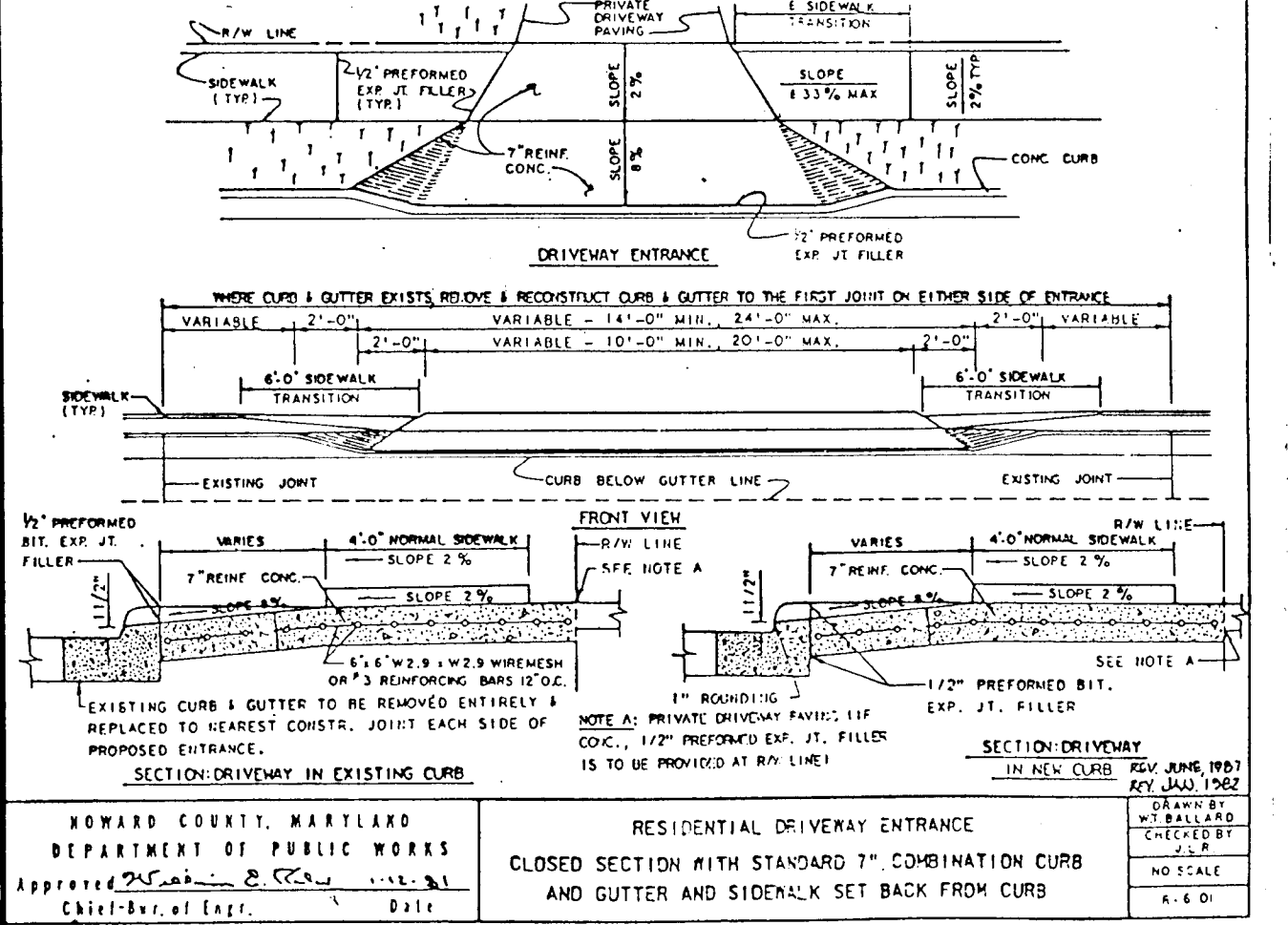
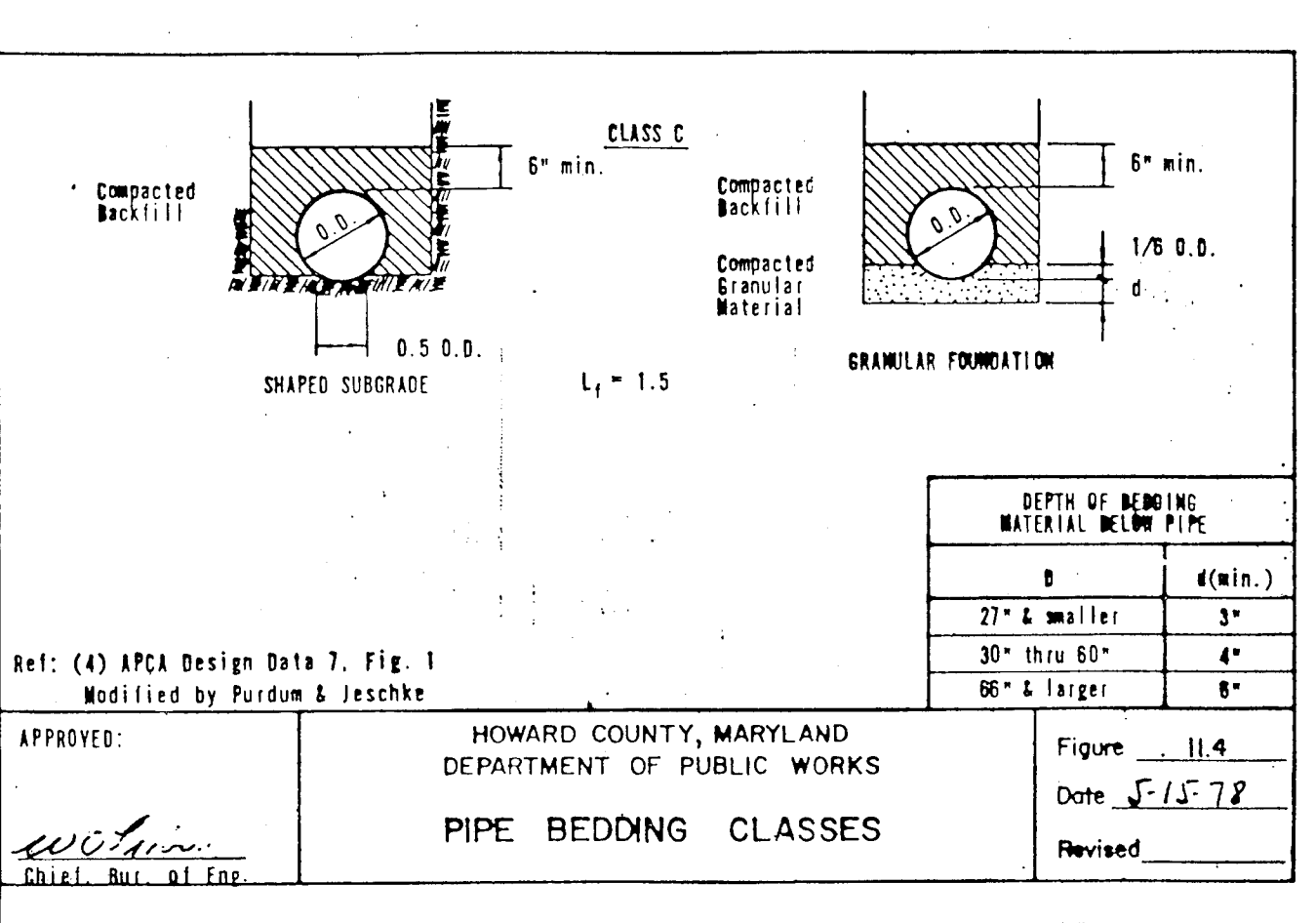
- Silt and debris shall not be allowed to enter the structures until contributing drainage areas have been permanently stabilized.
- All openings to structures shall be protected with the appropriate sediment control measures during construction.

INSPECTION NOTES:

- Prior to start of construction on water quality structures, the MDEP inspector must be called 48 hours in advance at 251-2674.
- The MDEP inspector must be notified (251-2674) at each of the following stages:
A. Approval of subgrade for footings.
B. Footings formed and steel set prior to pouring.
C. Structure sides formed and steel set prior to pouring.
D. Prior to top slab and manholes being set, MDEP inspector must check structure and all debris and silt in structure removed.
E. When site is permanently stabilized and sediment control measures to protect inlet are to be removed.

MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE):

- Water Quality Structures will require periodic cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of water quality structures will be notified by the County of the frequency of maintenance.
- Maintenance of these facilities will consist of cleaning out the separator and disposal of the waste and the repair of the facility as needed. Periodic inspections of these facilities will be made by the County Stormwater Management Group.
- The disposal of the liquid and solid matter should be as follows:
A. All liquid material in the separator inlet shall be pumped into a suitable tank truck and disposed of at an approved sanitary district discharge manhole or be taken to an approved sewage treatment plant for discharge.
B. The solid material shall be landfilled in an approved sanitary landfill.
- The inlet pipes, trash racks, grates, and structural parts shall be repaired as needed.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James W. Cleveland
Chief, Land Development Division
Date: 12/6/89

Traville W. Cleveland
Chief, Bureau of Highways
Date: 11/30/89

James W. Cleveland
Chief, Bureau of Engineering
Date: 1-11-90

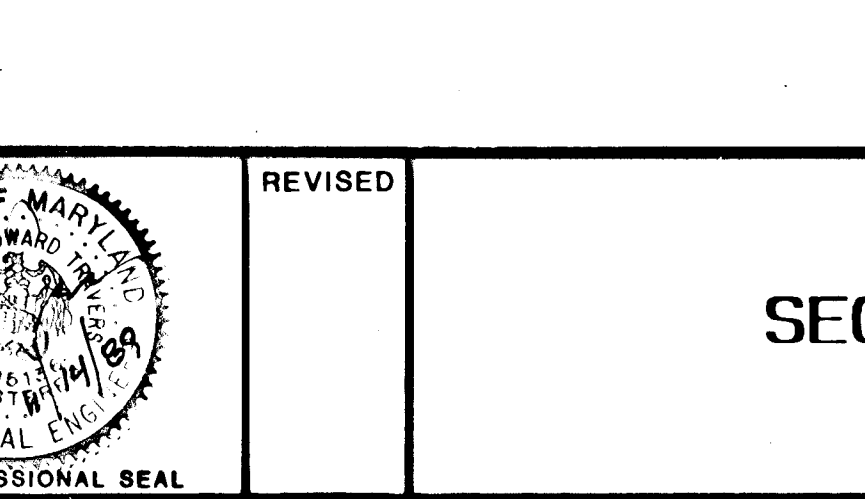
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Paul J. Zappella
Chief, Division of Community Planning & Land Development
Date: 1/21/90

BOWLING BROOK FARMS

A RESUBDIVISION OF PARCEL F
LOTS F-1 THRU F-42
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

NO.	DESCRIPTION	DATE	APPROVED	DATE
3	REV. PER NO. 02 COMMENTS	11-89		
2	REVISED PER HOWARD CO. COMMENTS	7-17-89		
1	ISSUED FOR REVIEW	5-10-89		

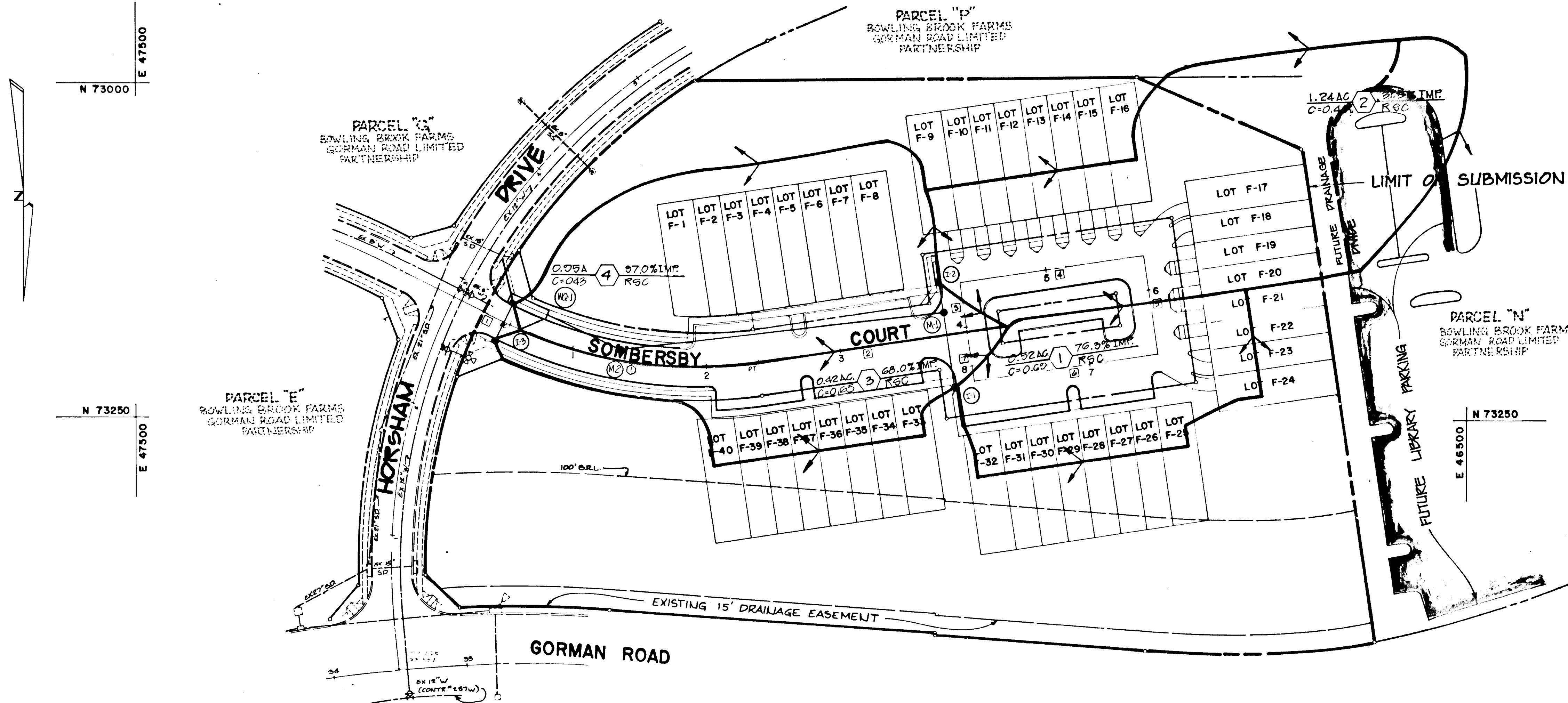


PAVING AND STORM DRAIN CONSTRUCTION PLANS

SECTIONS, DETAILS AND PROFILES

Patton Harris Rust and Associates
A Professional Corporation
Engineers, Surveyors, Planners and Landscape Architects
7609 Standish Place Rockville, Maryland 20855 (301)762-2220

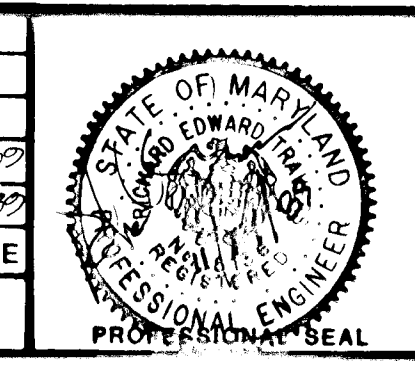
SURVEY	DATE
DESIGN KOR	5-10-89
DRAWN	SHEET
FC	3 OF 6
CHECKED	CHECKED
SCALE AS SHOWN	FILE NO. 2184-1-6



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Ronald L. Eason 12/6/89
 Chief, Land Development Division Date
Francis W. Weiland 11/30/89
 Chief, Bureau of Highways Date
Orson B. Reay 1-17-90
 Chief, Bureau of Engineering Date

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Paul S. P. ... 1/3/90
 Chief, Division of Community Planning & Land Development Date

NO.	DESCRIPTION	DATE	APPROVED	DATE
2	REVISED PER HO. CD. COMMENTS	7/18/89		
1	ISSUED FOR REVIEW	7/10/89		
	REVISION APPROVED BY			



REVISED

PAVING AND STORM DRAIN
 CONSTRUCTION PLANS

DRAINAGE AREA MAP

Patton Harris Rust and Associates
 A Professional Corporation
 Engineers, Surveyors, Planners and Landscape Architects
 7609 Standish Place Rockville, Maryland 20855 (301)762-2220

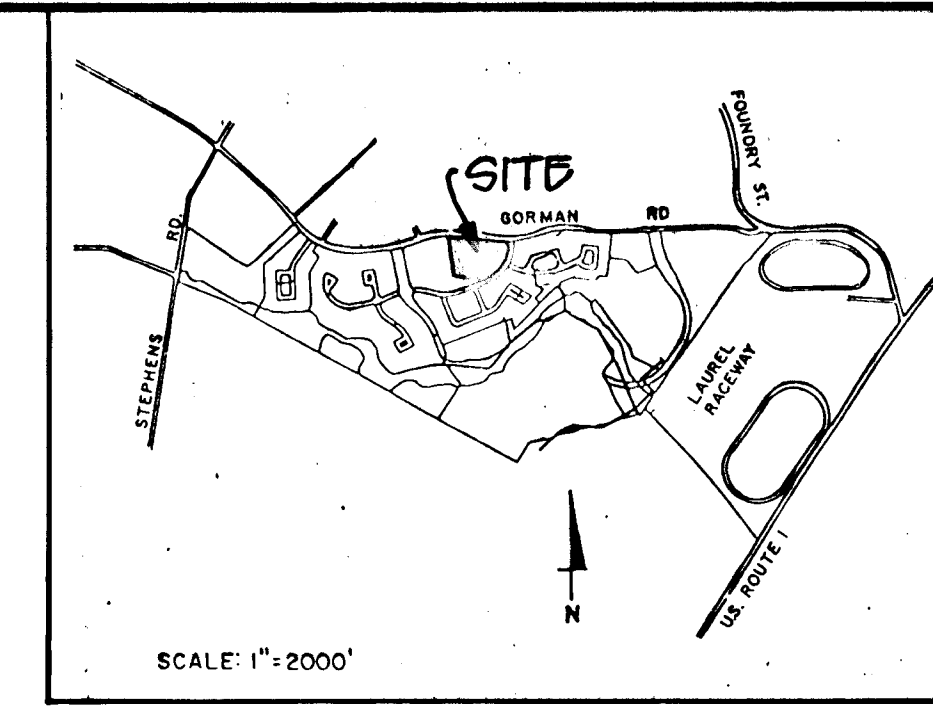
BOWLING BROOK FARMS

A RESUBDIVISION OF PARCEL F -
 LOTS F-1 THRU F-42

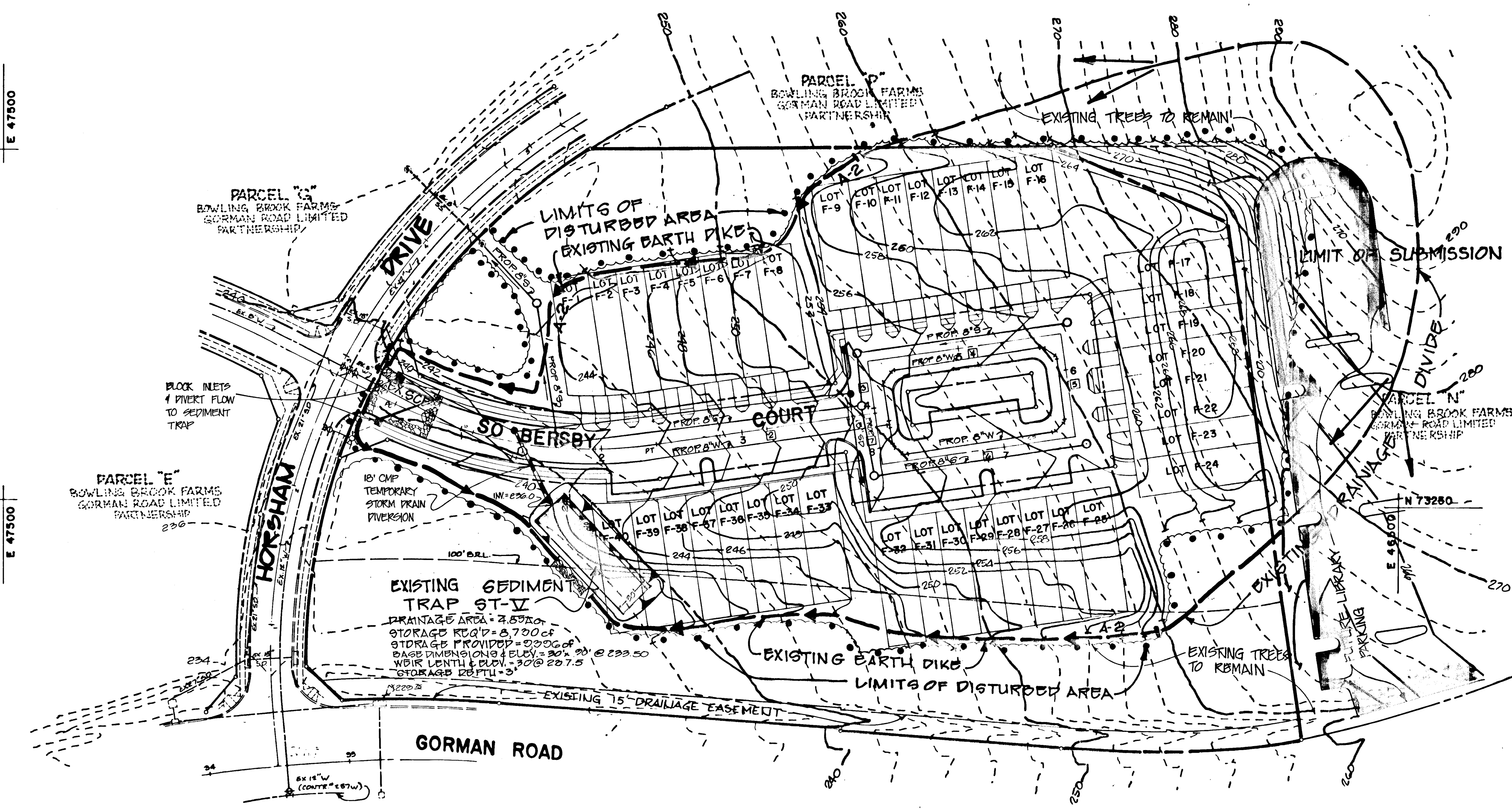
TAX MAP 47 PARCEL 141
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY	DATE
DESIGN KOR	5-10-89
DRAWN FC	SHEET
CHECKED	4 OF 6
SCALE 1"=50'	FILE NO.
C.L.	284-1-G

1271



VICINITY MAP



THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.

James M. Helm 11-16-89
 U.S. Soil Conservation Service Date

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

APPROVED *John P. Robertson* 4/6/89
 Howard S.C.D. Date

PLAN NUMBER **F-89-227**

DEVELOPER'S/BUILDER'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 onsite inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

[Signature] 11-9-89
 Signature of Developer/Builder 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.

[Signature] 11/14/89
 Signature of Engineer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 12/6/89
 Chief, Land Development Division Date

[Signature] 11/30/89
 Chief, Bureau of Highways Date

[Signature] 1-17-90
 Chief, Bureau of Engineering Date

THIS PLAN FOR STREET AND UTILITY CONSTRUCTION ONLY.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

[Signature] 12/1/89
 Chief, Division of Community Planning & Land Development Date

NO.	DESCRIPTION	DATE	APPROVED	DATE
2	REVISED PER HO. CO. COMMENTS	7/0/89		
1	ISSUED FOR REVIEW	5/10/89		
	REVISION APPROVED BY			



REVISED

PAVING AND STORM DRAIN CONSTRUCTION PLANS

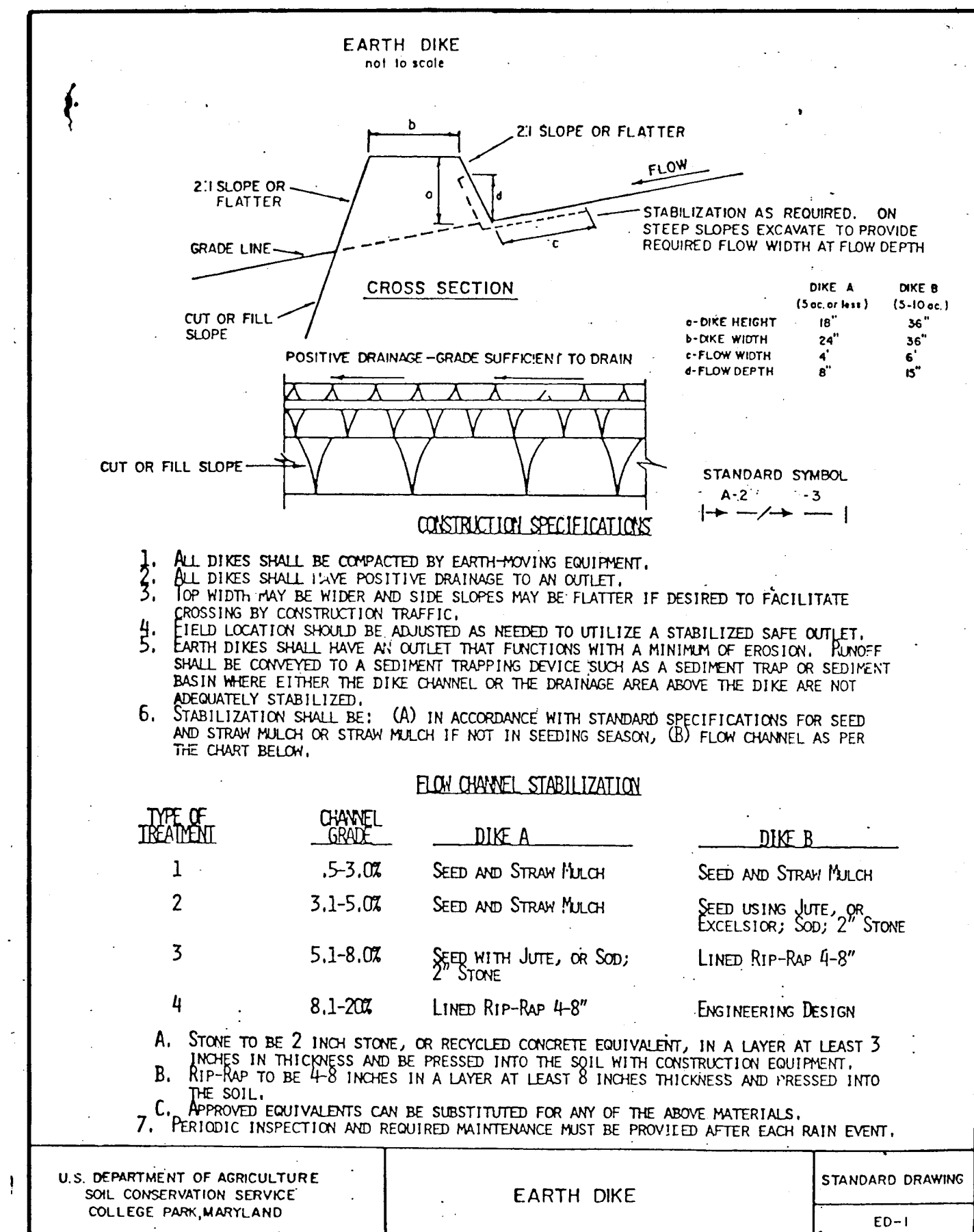
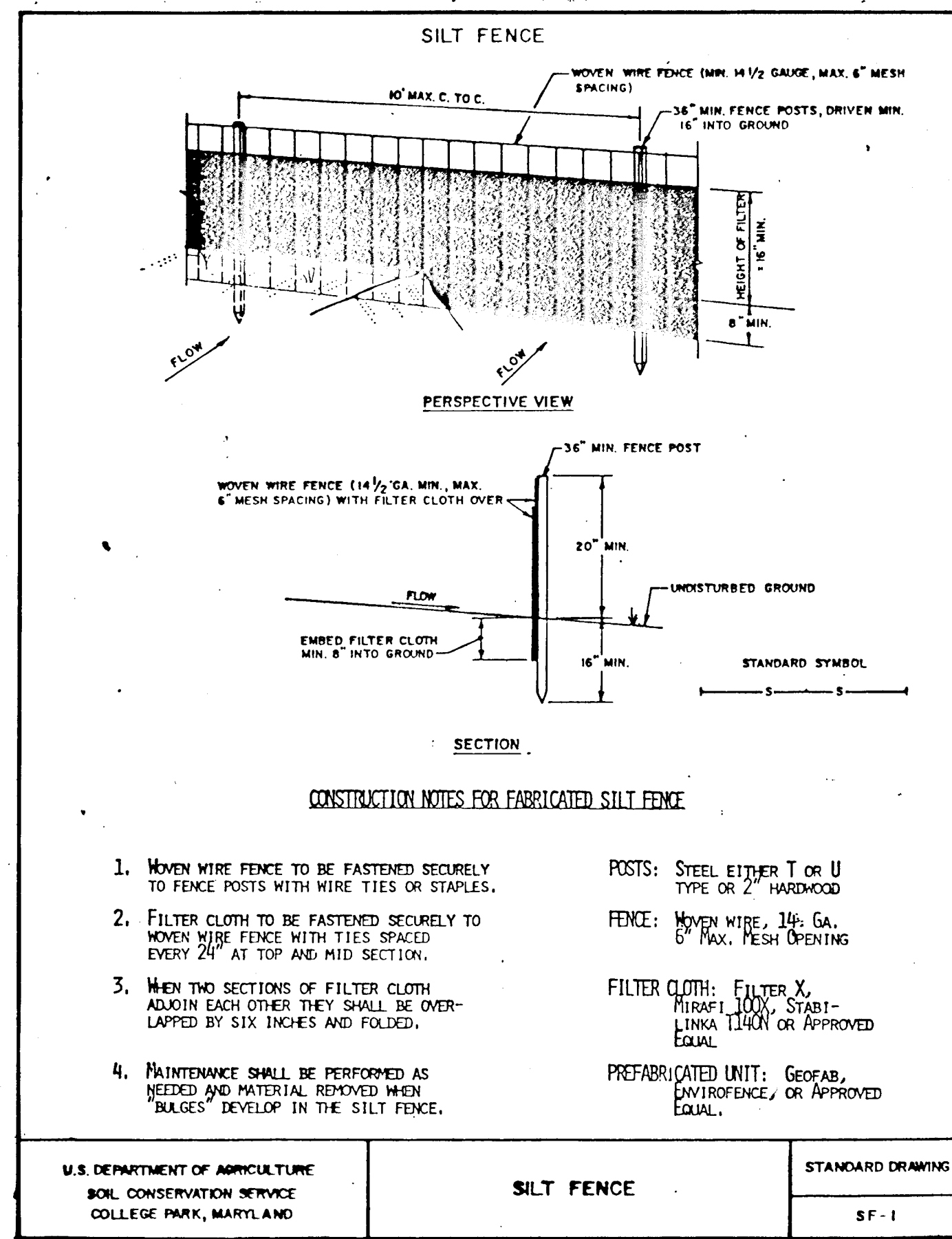
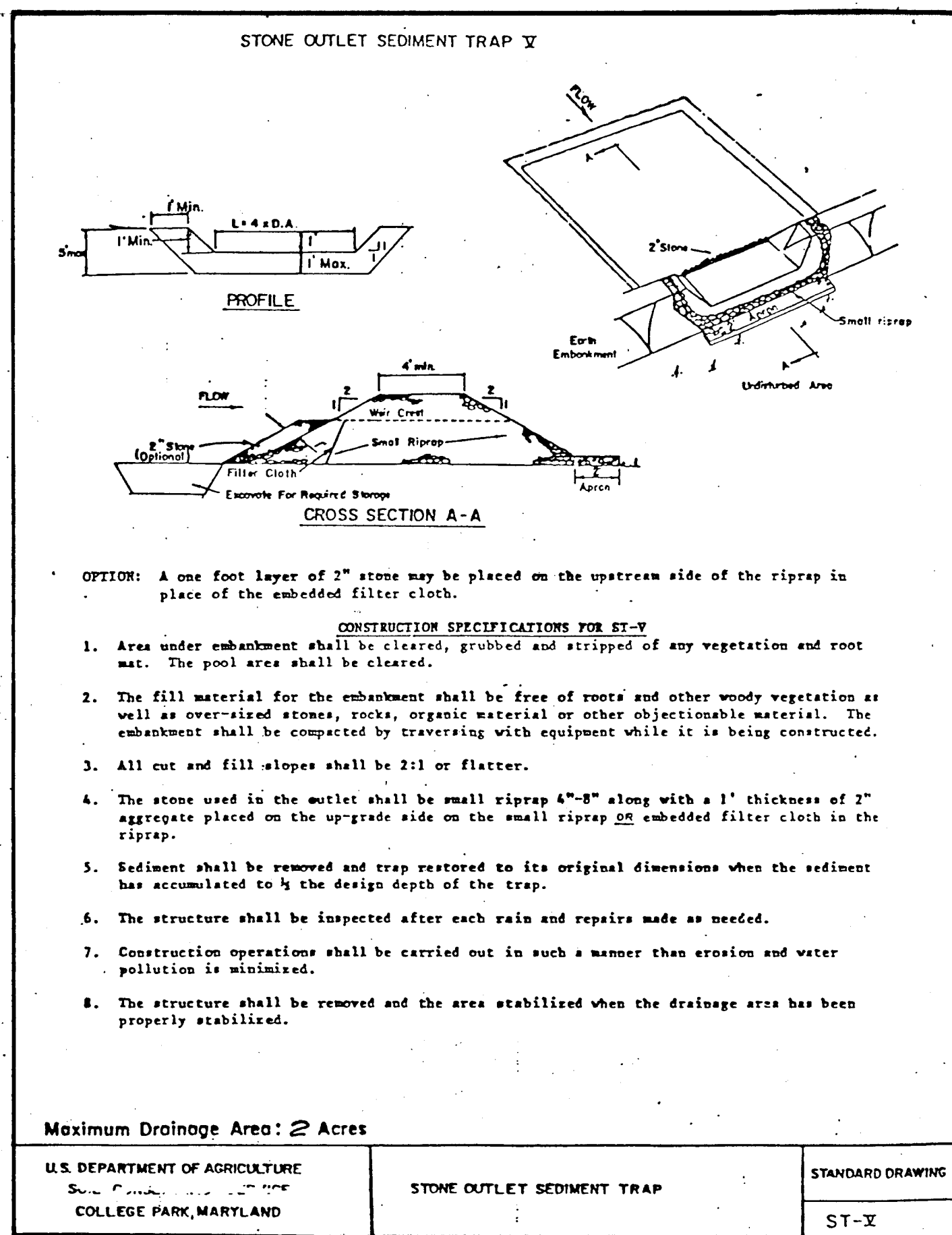
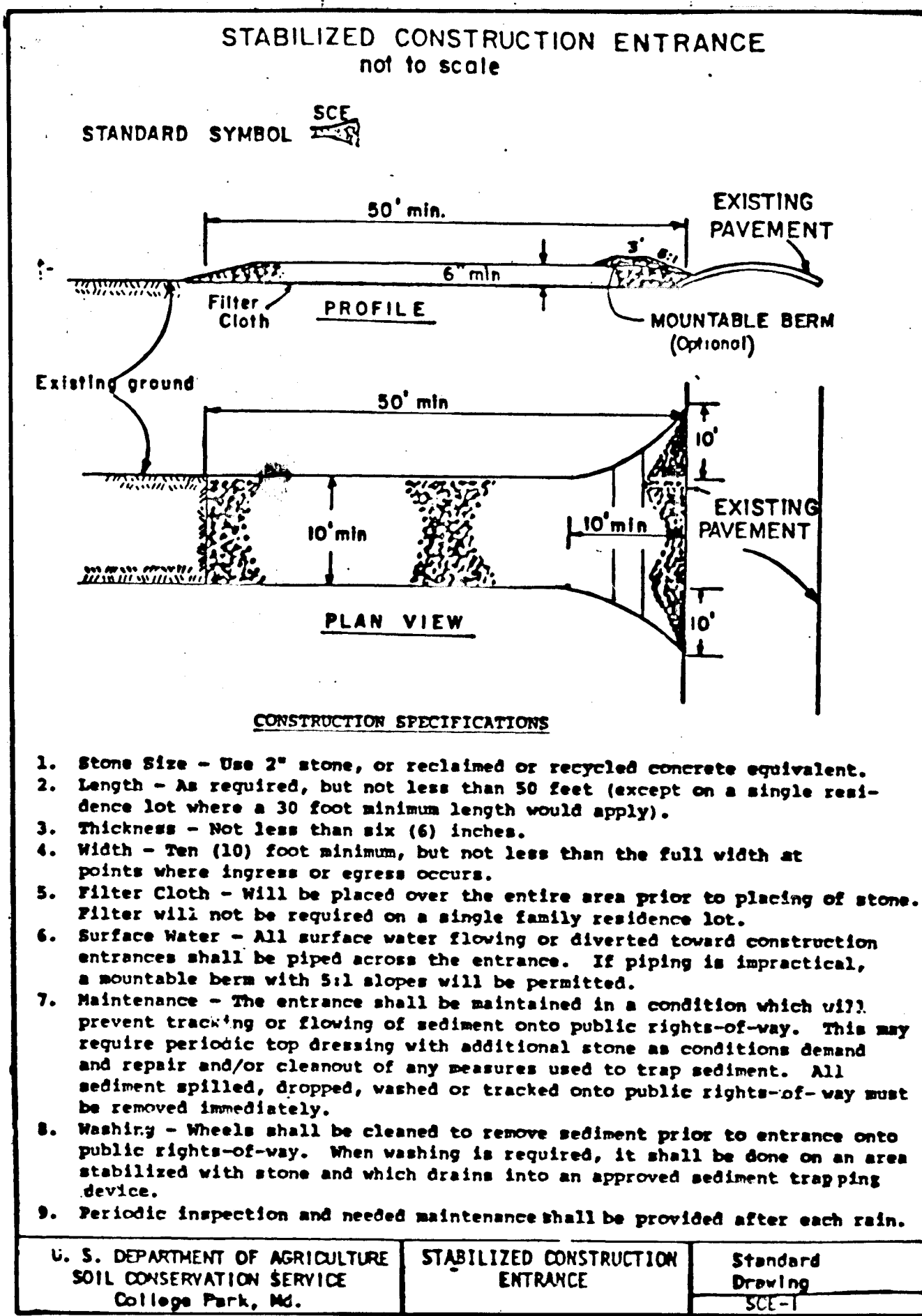
EROSION AND SEDIMENT CONTROL PLAN

Patton Harris Rust and Associates
 A Professional Corporation
 Engineers, Surveyors, Planners and Landscape Architects
 7609 Standish Place Rockville, Maryland 20855 (301)762-2220

BOWLING BROOK FARMS

A RESUBDIVISION OF PARCEL F
 LOTS F-1 THRU F-42
 TAX MAP 47 PARCEL 141
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY	DATE
DESIGN KOR	5-10-89
DRAWN FC	SHEET
CHECKED	5 of 6
SCALE 1"=50'	FILE NO.
C.I.	2184-1-G



PERMANENT SEEDING 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, discing or other acceptable means before seeding. IF NOT PREVIOUSLY LOOSENED

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

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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 30-0-0 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. 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 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 well anchored straw.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of rotted 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 reseeding.

TEMPORARY SEEDING 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, discing or other acceptable means before seeding. IF NOT PREVIOUSLY LOOSENED

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 28 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 rotted 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.

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 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 permission for their removal has been obtained from the Howard County Sediment Control Inspector
- Site Analysis:
Total Area of Site 5.00 Acres
Area Disturbed 4.00 Acres
Area to be roofed or paved 0.00 Acres
Area to be vegetatively stabilized 2.0 Acres
Total Cut 22,000 Cu. yds
Total Fill 2,000 Cu. yds
Offsite waste/borrow area location STREAM CROSSINGS
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 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.

SEQUENCE OF CONSTRUCTION

- OBTAIN REVISED GRADING PERMIT.
- MAINTAIN EXISTING SEDIMENT CONTROL MEASURES IN PLACE FROM ROUGH GRADING OPERATIONS, GP-89-36.
- CONSTRUCT SANITARY SEWER, WATER MAINS AND STORM DRAINS AS INDICATED ON PLANS.
- CONSTRUCT TEMPORARY STORM DRAIN DIVERSION AND BLOCK INLETS AS SHOWN ON PLANS.
- CONSTRUCT REMAINING UNDERGROUND UTILITIES, PAVE STREETS AND PARKING AREAS.
- APPLY TEMPORARY AND/OR PERMANENT VEGETATIVE STABILIZATION TO DISTURBED AREAS NOT SUBJECT TO IMMEDIATE CONSTRUCTION AS REQUIRED BY THE SEEDING NOTES ON THIS SHEET.
- AS THEIR CONTRIBUTING DRAINAGE AREAS ARE BROUGHT TO FINAL GRADE AND STABILIZED, REMOVE SEDIMENT CONTROL MEASURES AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.

John N. Hahn 11-16-89
U.S. Soil Conservation Service Date

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

APPROVED *John S. C. D.* 4/16/89
Howard S C D Date

PLAN NUMBER F-89-227

DEVELOPER'S/BUILDER'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 onsite inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

John S. C. D. 11-9-89
Signature of Developer/Builder 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.

William B. Reed 11/14/89
Signature of Engineer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Donald L. Brown 12/6/89
Chief, Land Development Division Date

Francis W. Chelmsford 11/30/89
Chief, Bureau of Highways Date

William B. Reed 1-17-90
Chief, Bureau of Engineering Date

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Mark S. D. Taylor 12/1/89
Chief, Division of Community Planning & Land Development Date

NO.	DESCRIPTION	DATE	APPROVED	DATE
1	ISSUED FOR REVIEW			5-10-89
REVISION APPROVED BY				

REVISED

PAVING AND STORM DRAIN CONSTRUCTION PLANS

EROSION AND SEDIMENT CONTROL DETAILS

Patton Harris Rust and Associates
A Professional Corporation
Engineers, Surveyors, Planners and Landscape Architects
7609 Standish Place Rockville, Maryland 20855 (301)762-2220

BOWLING BROOK FARMS

A RESUBDIVISION OF PARCEL F
LOTS F-1 THRU F-42
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY DATE 5-10-89
DESIGN KOR
DRAWN FC
CHECKED
SCALE NO. 8 CALD FILE NO. 2184-1-G
C.I.-

6 OF 6 SHEETS

1981

F-89-227