

1. 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.
2. 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.
3. 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 - 298-9013 (TROUBLE SHOOTING)
 - "MISS UTILITY" - 800-257-7777
 - CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - 725-9976
 - BUREAU OF UTILITIES/HOWARD COUNTY - 992-2366
4. ALL DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
5. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS AND HOWARD COUNTY DESIGN MANUAL, VOLUME IV.
6. 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.
7. TREES SHALL BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT POSSIBLE. TREES SIX (6") INCHES OR GREATER (MEASURED FOUR FEET (4') ABOVE EXISTING GRADE) ADJACENT TO THE LIMITS OF CONSTRUCTION SHALL NOT BE REMOVED OR DAMAGED BY THE CONTRACTOR.
8. ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON HOWARD COUNTY GEODETIC SURVEY.
9. TOPOGRAPHY TAKEN FROM MAPS PREPARED BY PHOTOGRAMMETRY BY "AERIAL SURVEYS" IN 1984. TOPOGRAPHY FIELD CHECKED 1986
10. PARKING AREAS SHALL MEET ALL ZONING REGULATIONS AND ALL DEPARTMENT OF PUBLIC WORKS PAVING SPECIFICATIONS
11. NUMBER OF PARKING SPACES PER BAY ARE INSCRIBED IN A CIRCLE. EXAMPLE: (9)
12. ALL STREET SIGNS SHALL CONFORM TO REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." THE FOLLOWING SIGNS ARE SHOWN ON THESE PLANS:
 - D3 - STREET IDENTIFICATION SIGN
 - R2-1 - SPEED LIMIT SIGN
 - R1-1 - STOP SIGN
 - R4-7 - KEEP RIGHT SIGN
13. THIS PROPERTY IS BOUNDED ON THE NORTH BY GORMAN ROAD, ON THE SOUTH AND EAST BY PARCELS B-1 AND B-2, ZONED RSA - 8 AND, ON THE WEST BY PARCEL E, SECTION 3, AREA 1, ZONED RSA-8
14. THIS SUBMISSION IS ZONE RSA-8.
15. GARAGES ARE TO BE USED FOR PARKING PURPOSES ONLY IN ACCORDANCE WITH SECTION 127.82.B.(18).
16. THE CONTRACTOR OR DEVELOPER SHALL CONTRACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 792-2630.
17. SEE OPZ FILE NOS. YP-85-78, YP-85-78A-2, S-85-23, S-86-57, S-87-07, P-87-73, L.1394 P632, P-88-184.
18. RESIDENTS WILL PROVIDE MODIFIED REUSE COLLECTION
19. FIRE LANES SHALL BE MARKED IN ACCORDANCE WITH TITLE 21 OF THE HOWARD COUNTY CODE AND WHERE DESIGNATED BY COMMENTS OF THE OFFICE OF THE FIRE ADMINISTRATOR.

SECTION 3 AREA 2 BOWLING BROOK FARMS LOTS E-28 THRU E-67, LOTS 221 AND 222

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM,
HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd, M.D. 2/16/89
COUNTY HEALTH OFFICER DATE

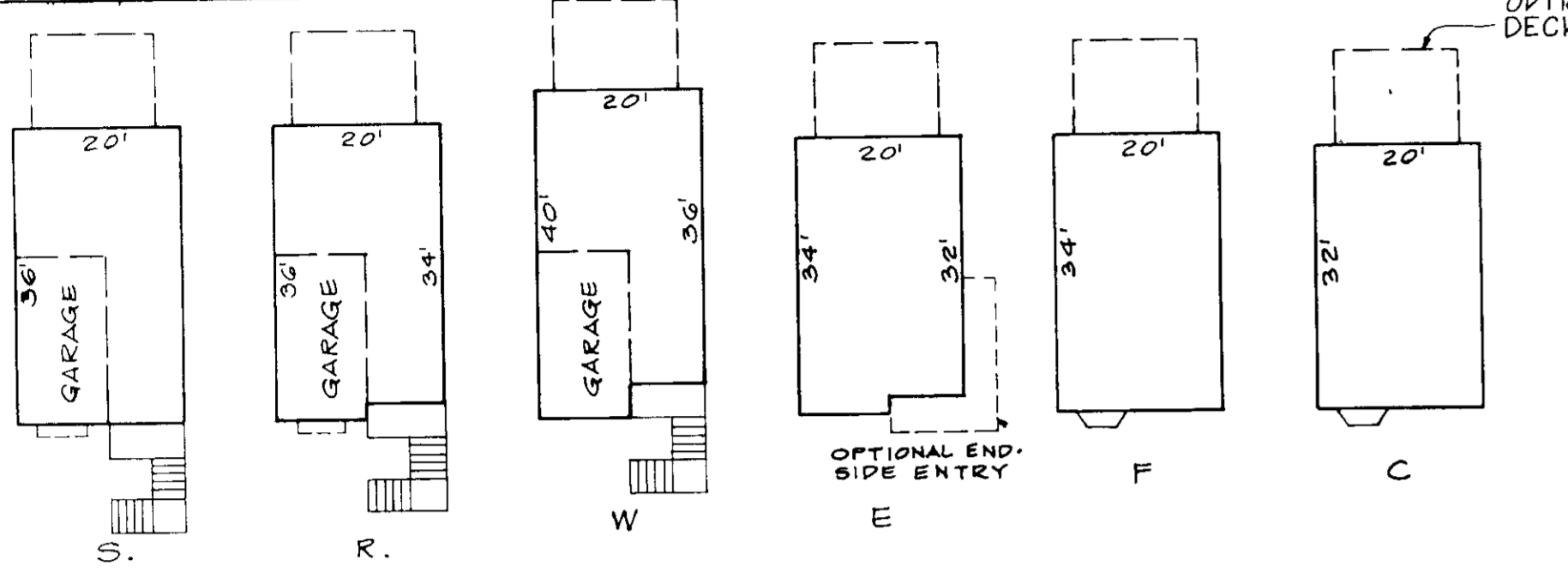
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
William J. A. Smith 2-8-89
PLANNING DIRECTOR DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
LKS
DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, PUBLIC STREET DRAINAGE SYSTEMS AND PUBLIC ROADS
James M. Boyd 2-10-89
DIRECTOR DATE

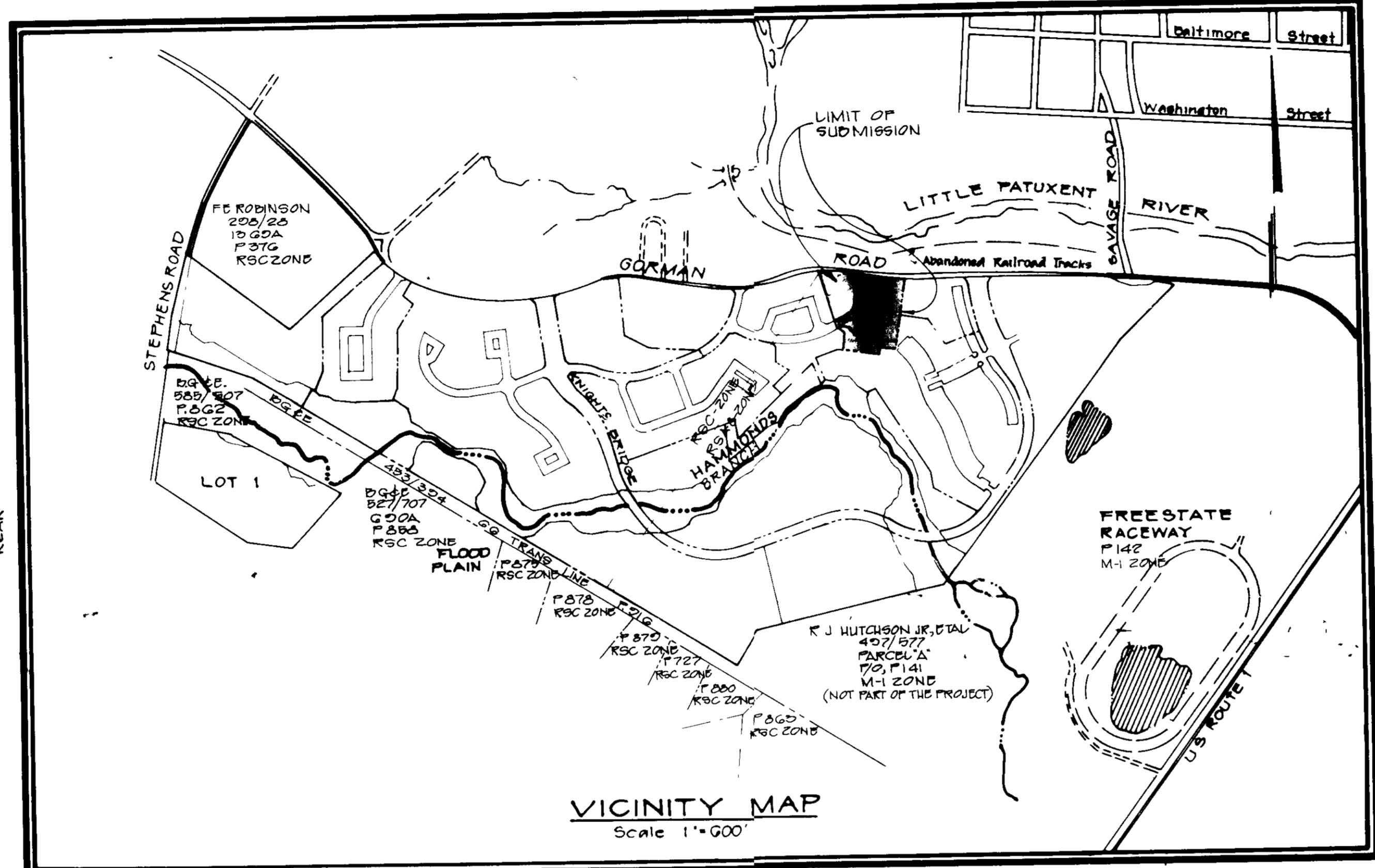
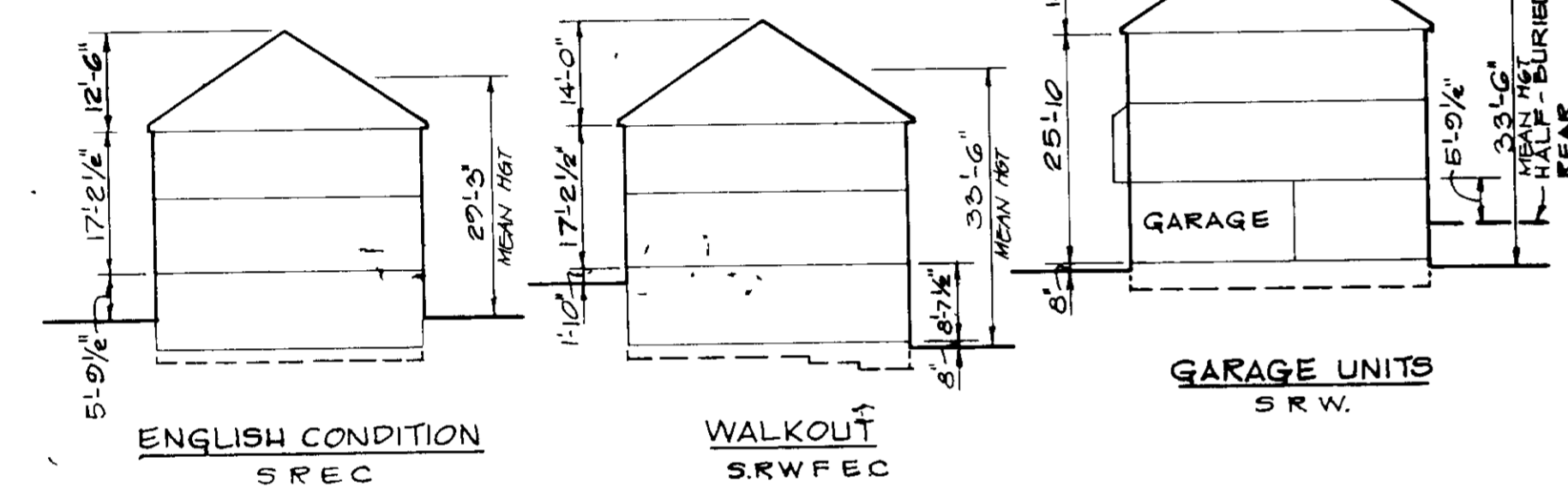
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Boyd 2-10-89
CHIEF, BUREAU OF ENGINEERING DATE

12-1-88
LKS



NOTE ALL ROOF OVERHANG = 8"

- C) (20'x33'33")+(1'33"x6") = 674.58 sq
- E) (20'x35'33")+(3'33"x6")+(4'x14") = 792.57 sq
- F) (20'x35'33")+(1'33"x6") = 714.58 sq
- R) (20'x37'33")+(1'33"x6") = 754.58 sq
- S) (20'x37'33")+(1'33"x6") = 754.58 sq
- W) (20'x41'33") = 826.60 sq



SITE DEVELOPMENT PLANS HOWARD COUNTY, MARYLAND

LEGEND

- APPROX. LIMIT OF CLEARING
- STORM DRAIN
- PROPOSED E
- PROPOSED M/W
- LIMITS OF SUBMISSION
- EASEMENT
- HC HANDICAPPED PKG SPACES
- FLARED END SECTION
- HCR HANDICAPPED RAMP
- EXISTING CONTOUR
- PROPOSED CONTOUR
- SPOT ELEVATION
- DIRECTION OF FLOW OF DRAINAGE
- PROPERTY LINE
- WALK OUT BASEMENT
- TRAFFIC CONTROL SIGNS

INDEX TO DRAWINGS

1. TITLE SHEET
2. SITE DEVELOPMENT PLAN
3. DETAIL SHEET
4. LANDSCAPING PLAN
5. EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
6. EROSION AND SEDIMENT CONTROL PLAN

OWNER/DEVELOPER

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

SITE ANALYSIS

1. Zone	RSA-8
2. Proposed Use	Townhouses
3. Dwelling Units Proposed	40
4. Area Tabulation:	
Lots	1.79 Acres
Public Roads	0.81 Acres
Open Space Provided	1.66 Acres
5. Parking Required:	
8 Units with Garages	x 2 = 16
32 Units with Common Parking Area	x 2 = 64
Total Required	= 80
6. Parking Provided:	
Units with Garages	8 Spaces in Driveway
Common Parking Area	8 Spaces in Garage
Total Provided	72 Spaces
7. Building Coverage	= 88 Spaces
	= 0.69 Acres (6%)

DENSITY TABULATION

1. Gross Area	4.26 Acres
2. Floodplain/Steep Slopes	
3. New Area	4.26 Acres
4. Number of Dwelling Units Allowed (based on net area)	34.08
5. Floodplain Lot Adjustment Lot Allowance	34.08
6. Total Number of Dwelling Units Allowed	40
7. Total Number of Dwelling Units Proposed	9.39*
8. Density Per Acre	

*Density per acre will not violate that allowed by zoning regulation when recorded based upon unused density from previously recorded Sec. 3, Par. B and Par. E, SECTION 3, AREA 1

SEDIMENT CONTROL MEASURE FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND ROAD CONSTRUCTION PLAN F-88-184 AND SDP 89-95

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
J. Harris 2-7-89
SIGNATURE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
APPROVED *[Signature]* 2/6/89
HOWARD SCD DATE

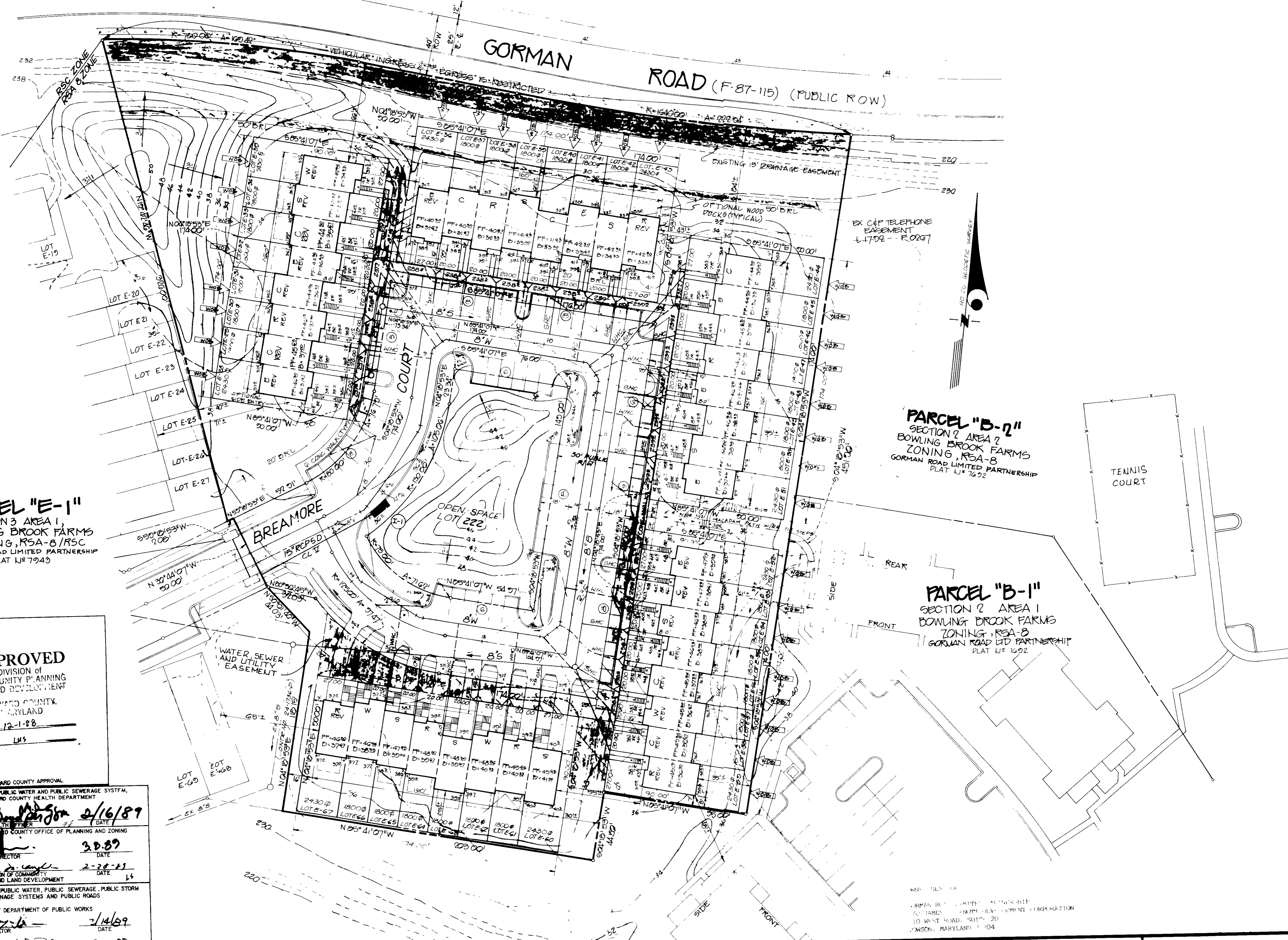
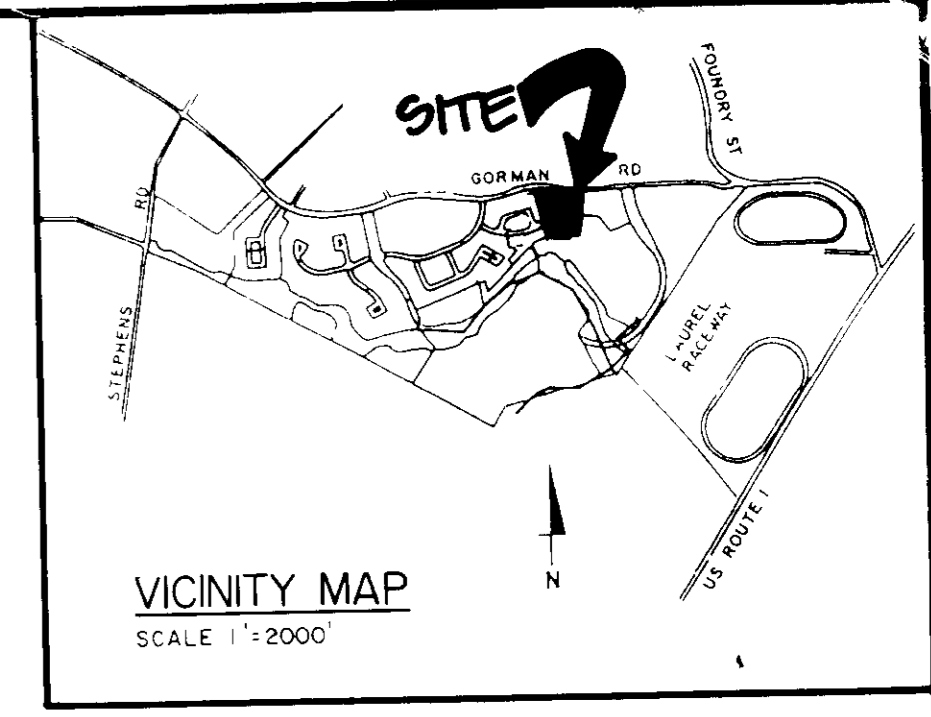
NO.	DESCRIPTION	DATE	APPROVED	DATE
2	ORIGINALS SUBMITTED	1-9-89		
1	REVIEWED TO HO CO REV. REVIEW	11-10-88		
REVISION APPROVED BY				

REVISED

TITLE SHEET

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		SURVEY	DATE
SECTION 3, AREA 2		DESIGN	10 24 88
LOTS E-28 THRU E-67, LOTS 221 & 222		DRAWN	SHEET
A RESUBDIVISION OF PARCEL E BOWLING BROOK FARMS		CHECKED	1 OF 6
TAX MAP 47	PARCEL 141	SCALE	FILE NO
SIXTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND	C.I.	2024-1-4



PARCEL "E-1"
SECTION 3 AREA 1
BOWLING BROOK FARMS
ZONING, RSA-8/RSC
GORMAN ROAD LIMITED PARTNERSHIP
PLAT N# 7943

PARCEL "B-2"
SECTION 2 AREA 2
BOWLING BROOK FARMS
ZONING, RSA-8
GORMAN ROAD LIMITED PARTNERSHIP
PLAT N# 7692

PARCEL "B-1"
SECTION 2 AREA 1
BOWLING BROOK FARMS
ZONING, RSA-8
GORMAN ROAD LTD PARTNERSHIP
PLAT N# 7692

APPROVED
DIVISION OF
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE 12-1-88
LMS

HOWARD COUNTY APPROVAL
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM,
HOWARD COUNTY HEALTH DEPARTMENT
James M. Anderson 2/16/89
PLANNING DIRECTOR
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Mark 3-2-89
PLANNING DIRECTOR
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, PUBLIC STORM
DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Anderson 2/16/89
DIRECTOR
James M. Anderson 2-10-89
CHIEF, BUREAU OF ENGINEERING

LOT NUMBER	STREET ADDRESS
E-29	9339 BREAMORE COURT
E-29	9341
E-30	9343
E-31	9345
E-32	9347
E-33	9349
E-34	9351
E-35	9353
E-36	9355
E-37	9357
E-38	9359
E-39	9361
E-40	9363
E-41	9365
E-42	9367
E-43	9369
E-44	9371
E-45	9373
E-46	9375
E-47	9377
E-48	9379
E-49	9381
E-50	9383
E-51	9385
E-52	9387
E-53	9389
E-54	9391
E-55	9393
E-56	9395
E-57	9397
E-58	9399
E-59	9401
E-60	9403
E-61	9405
E-62	9407
E-63	9409
E-64	9411
E-65	9413
E-66	9415
E-67	9417 BREAMORE COURT

NO.	DESCRIPTION	DATE	APPROVED	DATE
3	REVISED LOTS	2/1/89		
2	REVISED UNITS PER ACRE	2/3/89		
1	REMOVED TO 140.00 FOR REVIEW	11-10-88		
REVISION APPROVED BY				

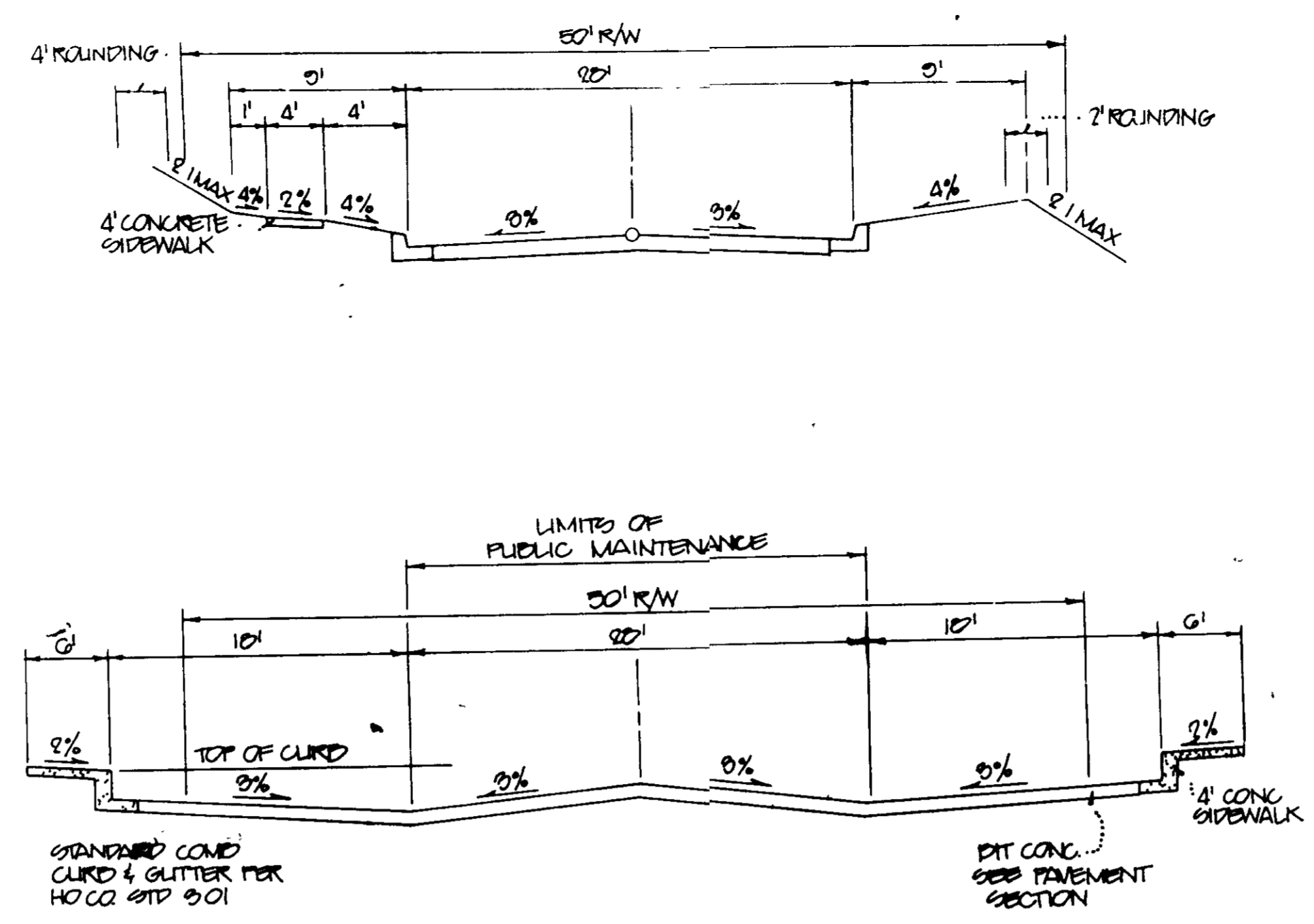
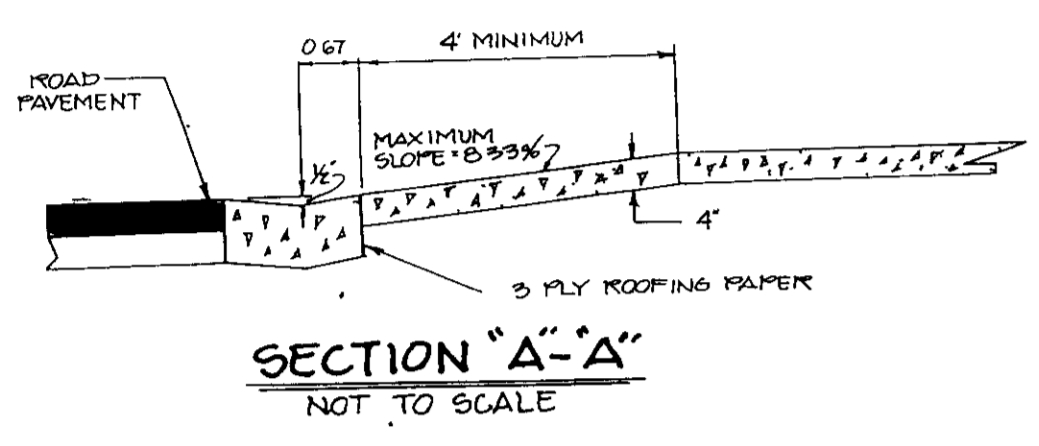
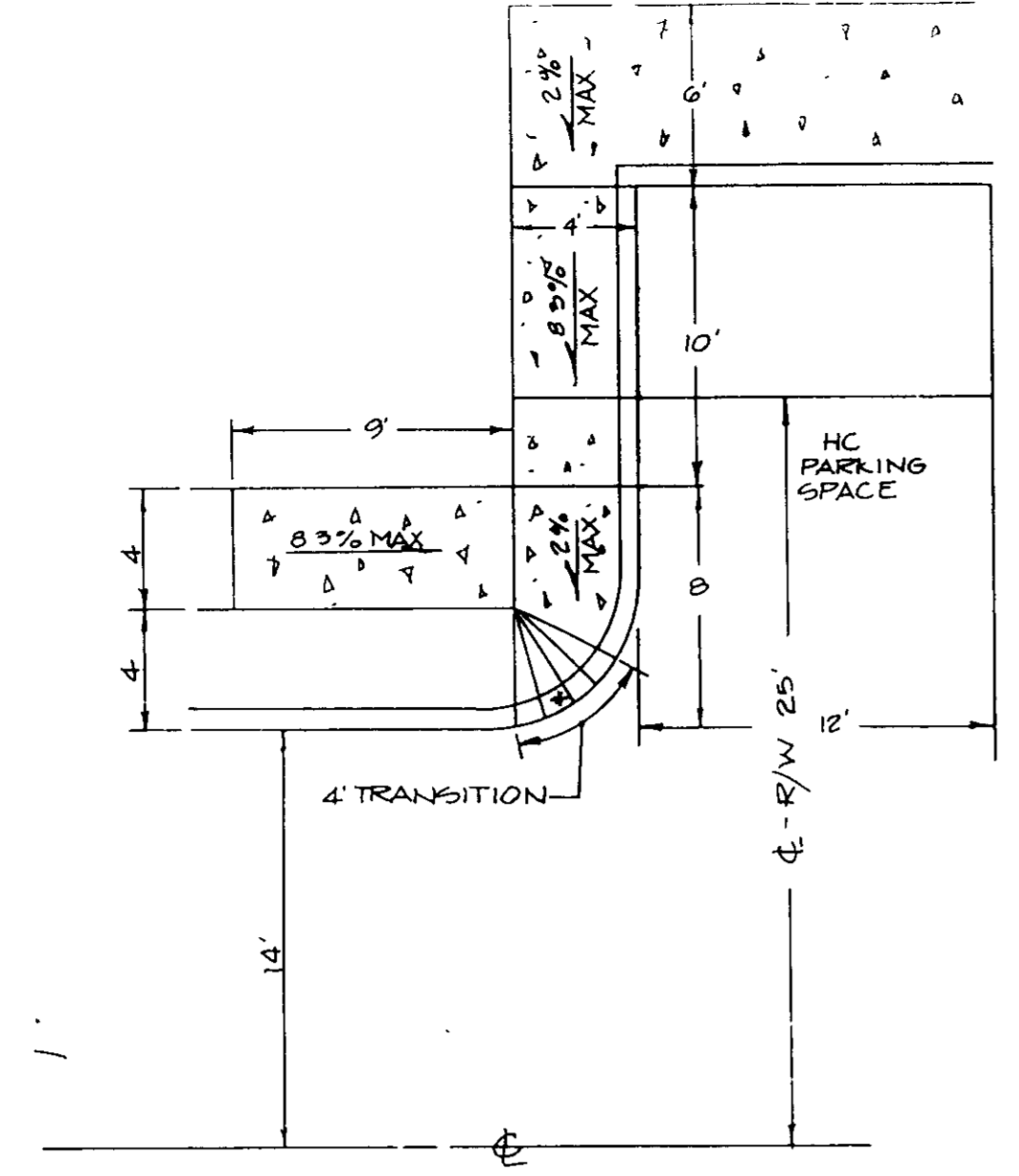
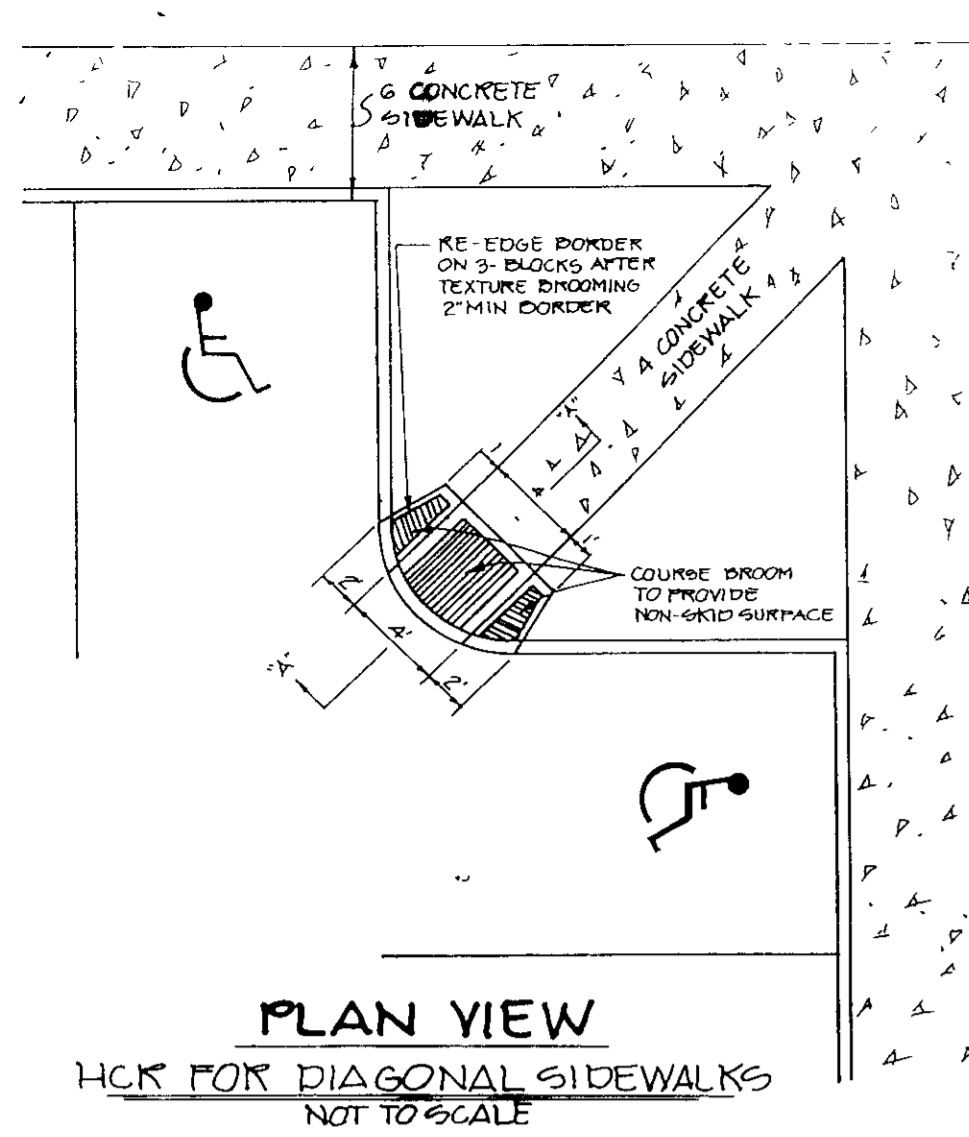
SITE DEVELOPMENT PLAN

Patton Harris Rust and Associates
A Professional Corporation
Engineers, Surveyors, Planners and Landscape Architects
7609 STANDISH PLACE ROCKVILLE, MD. 20855 (301) 762-2220

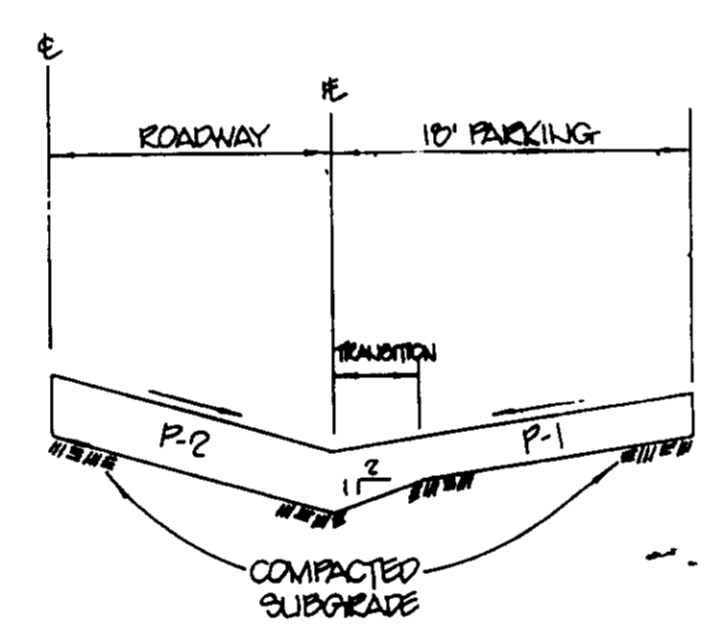
BOWLING BROOK FARMS
SECTION 3, AREA 2
LOTS E-28 THRU E-67, LOTS 221 & 222
A RESUBDIVISION OF PARCEL E BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY PHK&A	DATE
DESIGN K.O.R.	10/24/88
DRAWN	SHEET
CHECKED	2 OF 6
SCALE 1"=30'	FILE NO.
C.I. 2	2184-10

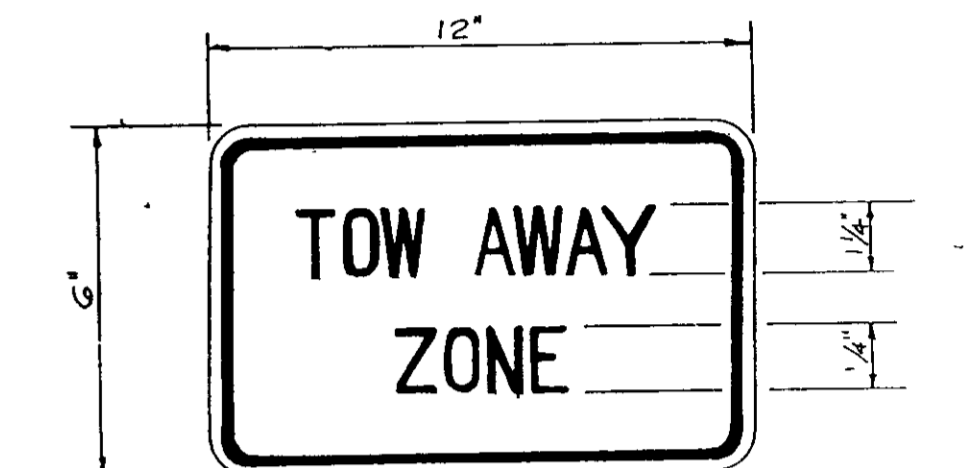
SDP-89-95



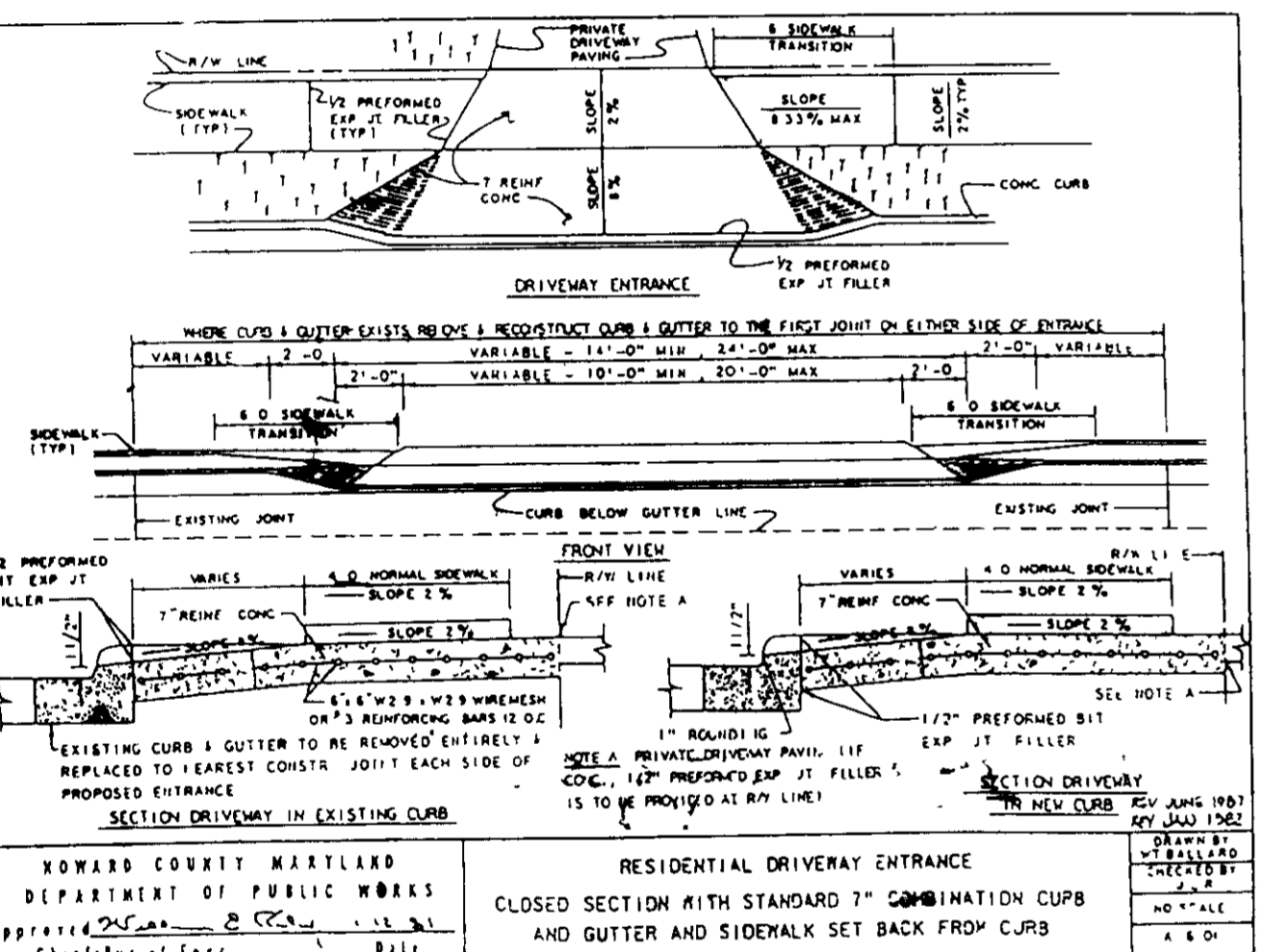
SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING AREAS AND TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE PRIME 2" CRUSHER RUN BASE COURSE OR 1" COARSE GRADED STABILIZED AGGREGATE BASE COURSE
P-2	RESIDENTIAL ZONES LOCAL CUL-DE-SAC STS, ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS PARKING AREAS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 2 1/2" BIT. CONC. BASE PRIME 2" CRUSHER RUN BASE COURSE 1/2" COARSE OR 1" COARSE GRADED STABILIZED AGGREGATE BASE COURSE



NOTE: IF THE P-1 PAVEMENT SECTION IS USED WITHIN THE PARKING AREA, IT SHALL BE USED THROUGHOUT THE ENTIRE PROJECT. ONE PAVEMENT SECTION (FULL DEPTH BITUMINOUS CONCRETE PAVEMENT OR BITUMINOUS CONCRETE PAVEMENT OVER GRANULAR BASE) SHALL BE USED THROUGHOUT THE ENTIRE PROJECT.



- A. Specifications
- Fire Lane Signs (Exhibit 5)
 - Size - 24" wide X 18" high Alternates when specified 24" wide X 30" high
 - Thickness - 0.80"
 - Material - Aluminum
 - Color - Reflective red letters and border on a reflective white background
 - Lettering - NO PARKING (3") FIRE LANE (2") DIRECTIONAL ARROW (1 1/2")
 - Tow Away Zone Signs (Exhibit 6)
 - Size - 12" wide X 6" high
 - Material type and thickness to be same as Fire Lane sign
 - Color - Red letters and border on reflective white background
 - Lettering - 2 line text using 1 inch letters
- NOTE: The use of international symbol type signs is not authorized.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 2/16/89
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 3-8-89
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEM AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 2-10-89

NO.	DESCRIPTION	DATE	APPROVED	DATE
2	ORIGINALS SUBMITTED	1-9-89		
1	RECEIVED TO HQ CO. P&Z REVIEW	11-10-88		

REVISION APPROVED BY

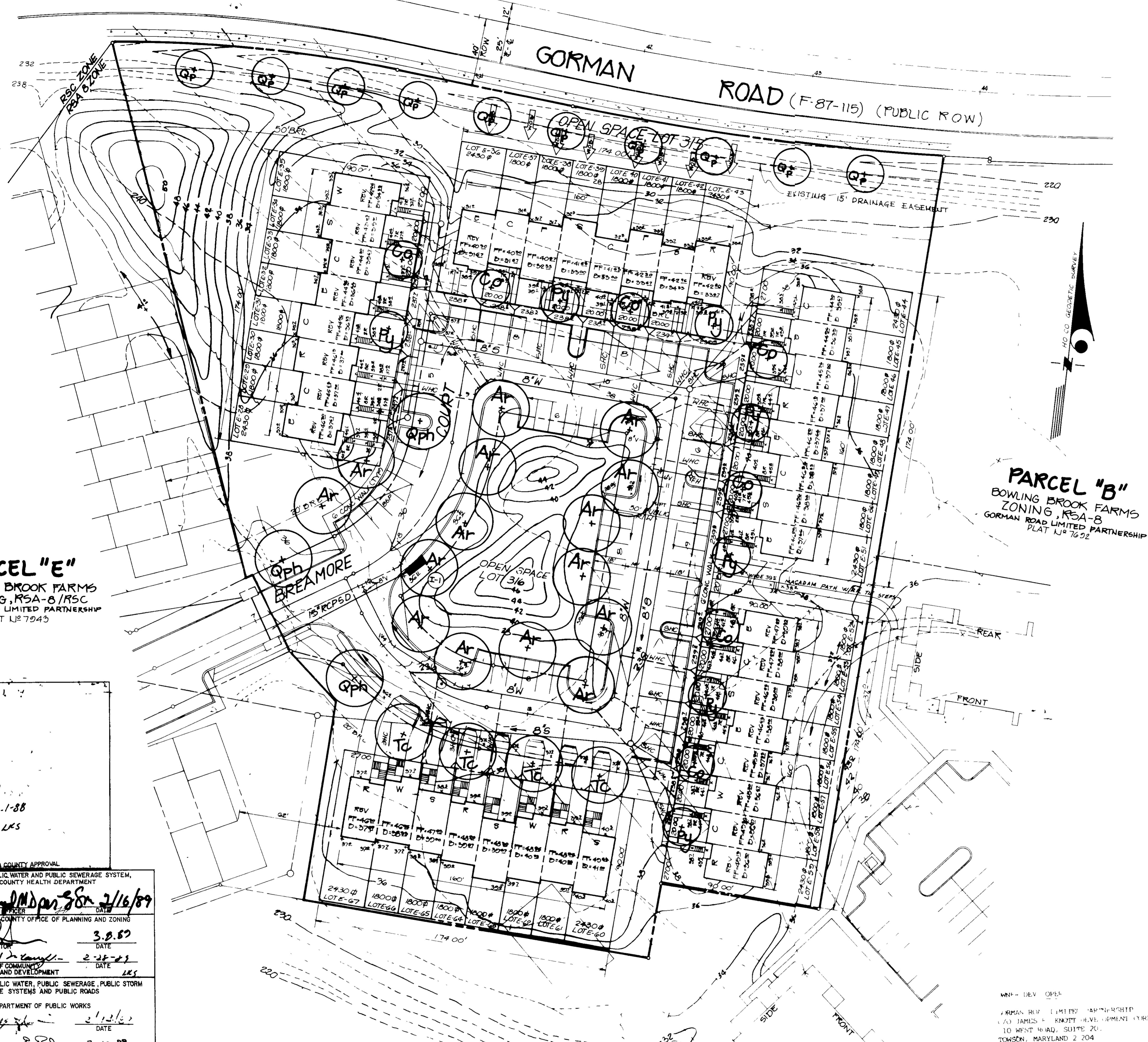
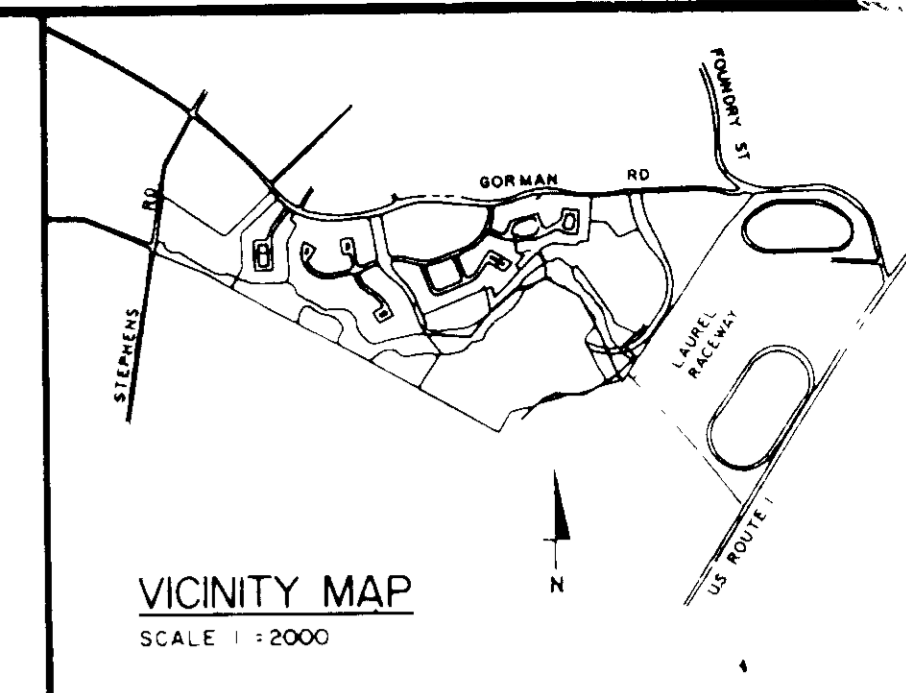
**SITE DEVELOPMENT PLAN
DETAIL SHEET**

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
SECTION 3, AREA 2
LOTS E-28 THUR E-67, LOTS 221 & 222
A RESUBDIVISION OF PARCEL E BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY	DATE
DESIGN KOR	10-24-88
DRAWN J.D.W.	SHEET
CHECKED	3 OF 6
SCALE	FILE NO
C.I.	7184-1-4

SDP-89-95



PLANT SCHEDULE
Deciduous Trees

Key	Quantity	Botanical Name	Common Name	Size	Condition
Ar	15	Acer rubrum	Red Maple	13'-15'ht 2 1/2" cal	B&B
Qph	3	Quercus phellos	Willow Oak	11'-13'ht 2 1/2" cal	B&B
Tc	4	Tilia cordata "Greenspire"	Greenspire Linden	12'-14'ht 2" cal	B&B
Co	7	Crataegus oxyacantha "Superba"	Crimson Cloud Hawthorn	10'-12'ht 2"-2 1/2" cal	B&B
Py	7	Prunus x yedoensis	Yoshino Cherry	6'-8'ht	B&B
Qp	10	Quercus palustris	Pin Oak	13'-15' ht 2 1/2" cal	B&B

- NOTES:
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO PLANTING (SEE NOTE #3 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).

NOTE: THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE DEVELOPMENT PLAN FOR OTHER INFORMATION.

PARCEL "E"
BOWLING BROOK FARMS
ZONING, RSA-8/RSC
GORMAN ROAD LIMITED PARTNERSHIP
PLAT NO. 7945

PARCEL "B"
BOWLING BROOK FARMS
ZONING, RSA-8
GORMAN ROAD LIMITED PARTNERSHIP
PLAT NO. 7622

12-1-88
LKS

HOWARD COUNTY APPROVAL

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM,
HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd 2/16/89
HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Cheryl J. ... 3.9.89
PLANNING DIRECTOR

APPROVED: DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT
... 2-28-89
LKS

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, PUBLIC STORM
DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 2-10-89
DIRECTOR

... 2-10-89
CHIEF, BUREAU OF ENGINEERING

NO.	DESCRIPTION	DATE	APPROVED	DATE
2	ORIGINALS SUBMITTED	1-9-89		
1	PREPARED TO HO. CO. FOR REVIEW	1-10-89		
REVISION APPROVED BY				



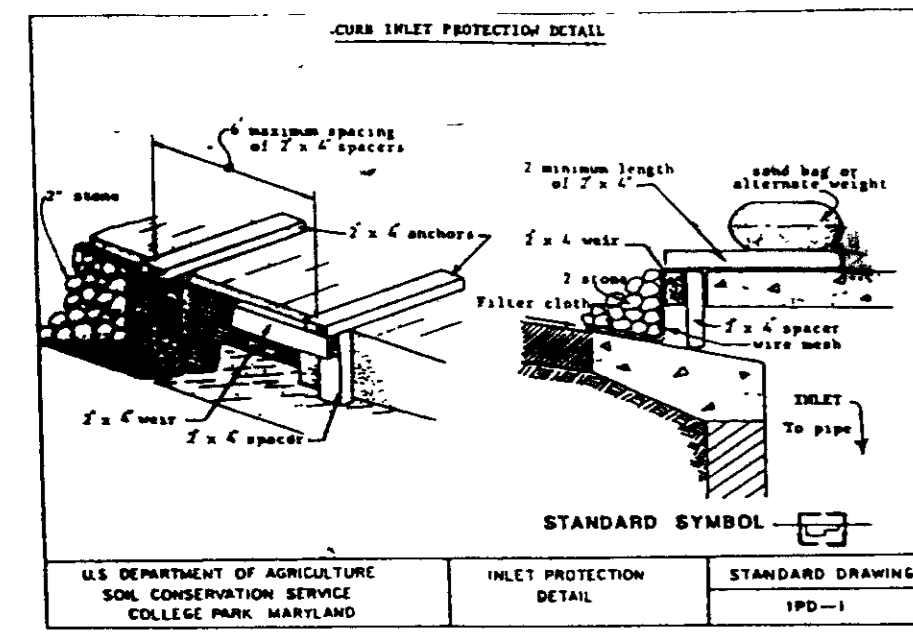
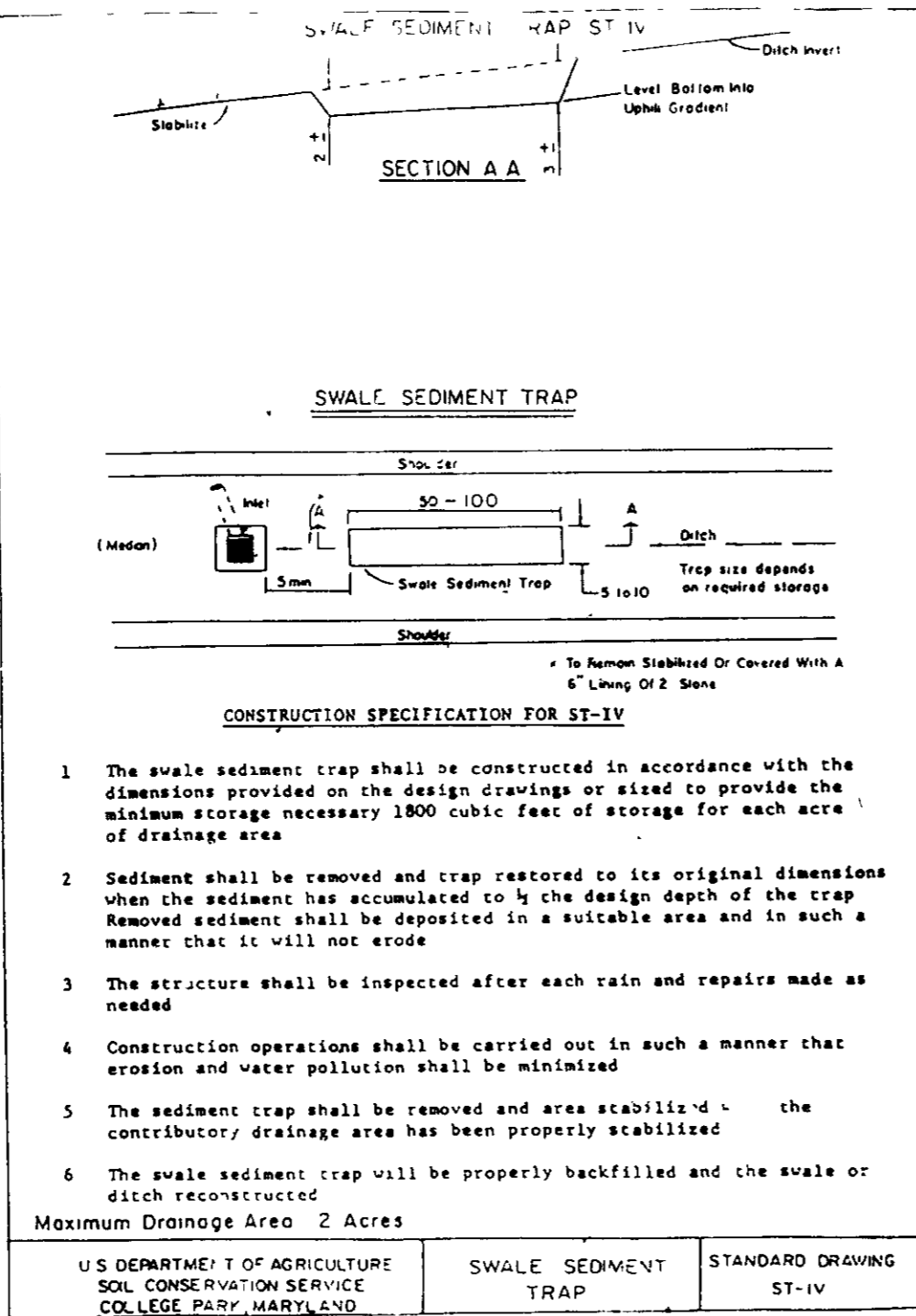
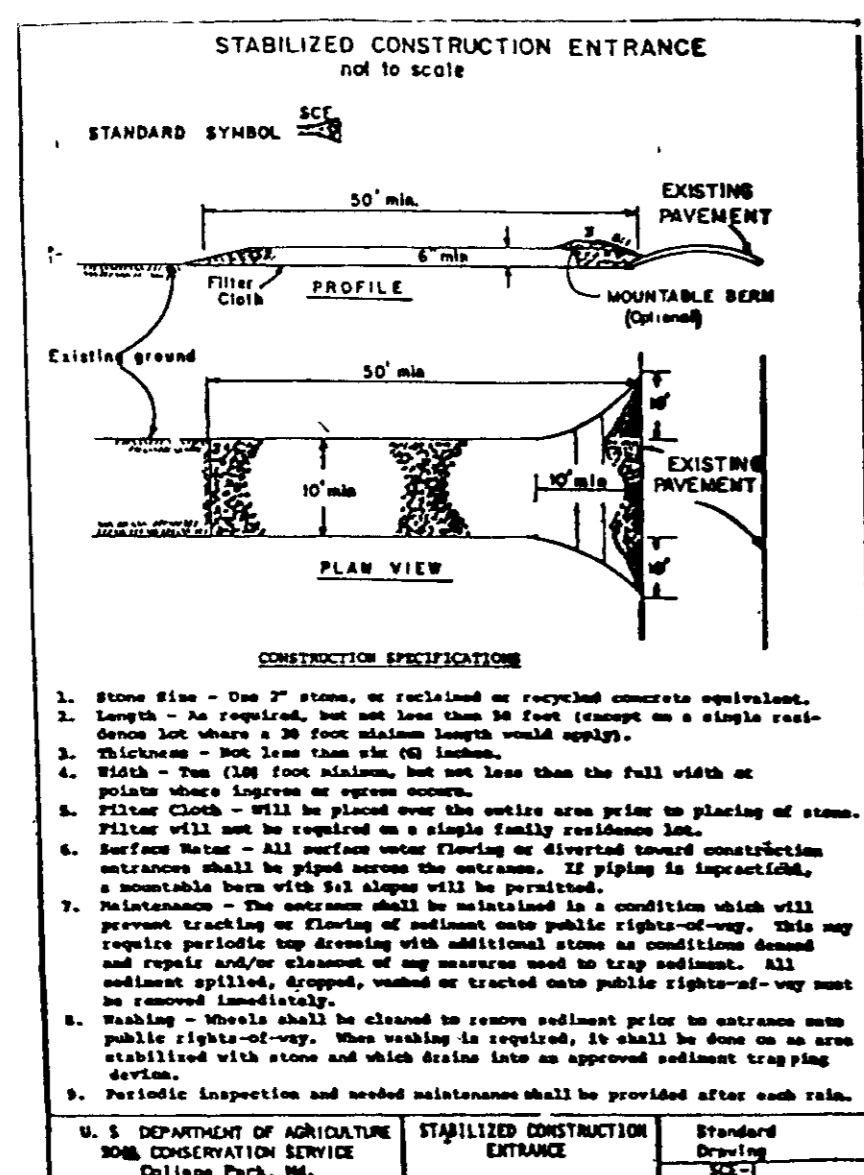
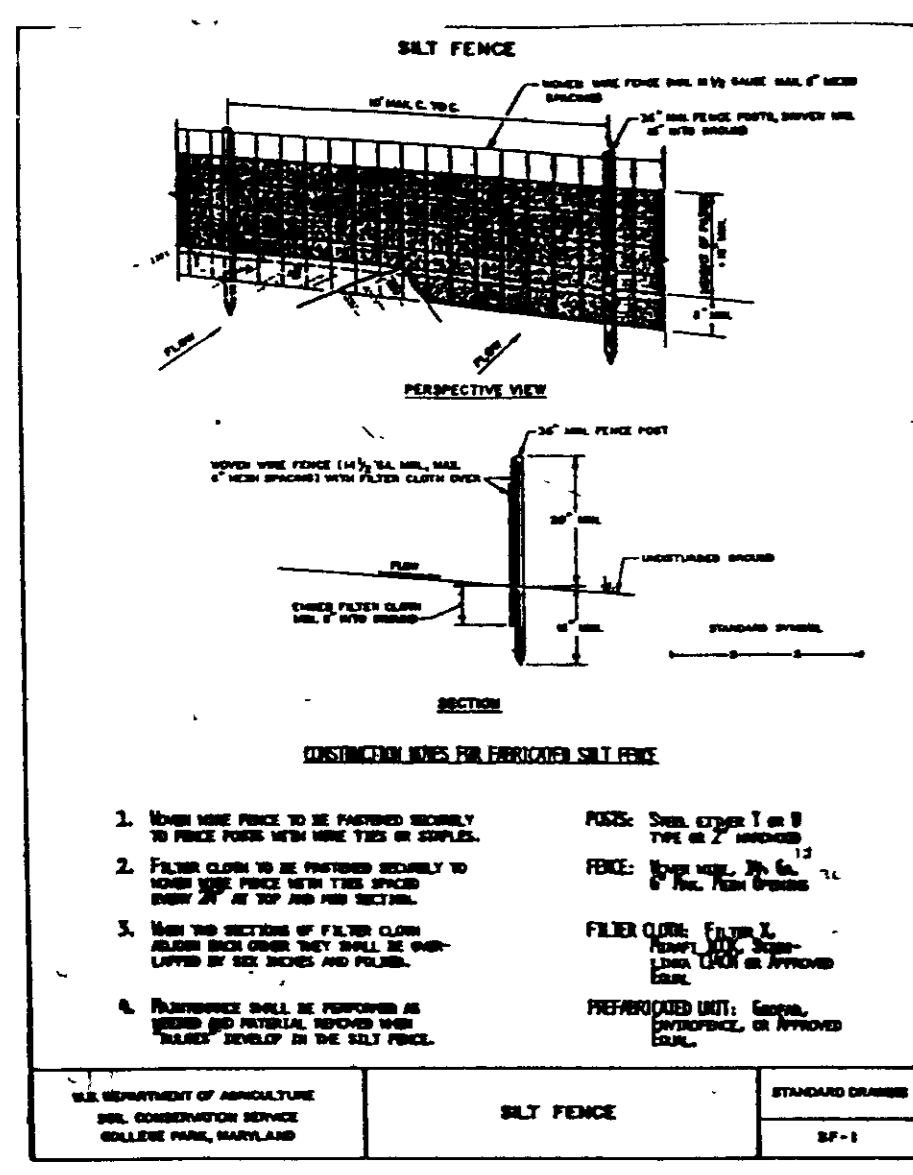
REVISED

LANDSCAPE PLAN

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
SECTION 3, AREA 2
LOTS E-28 THRU E-67, LOTS 221 & 222
A RESUBDIVISION OF PARCEL E BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY PRT #	DATE
1	10-24-88
DESIGN OK	
DRAWN	SHEET
CHECKED	4 OF 6
SCALE 1"=20'	FILE NO
C.L. 2'	2184-1-0



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

STANDARD DRAWING
ST-IV-1

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
College Park, Md.

STANDARD DRAWING
ST-IV

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

STANDARD DRAWING
ST-IV

SEQUENCE OF CONSTRUCTION

- SEDIMENT CONTROLS INSTALLED UNDER F-88-184 MAY NOT BE REMOVED UNTIL ROADS ARE PAVED AND RIGHTS-OF-WAY STABILIZED AND ONLY UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- OBTAIN REVISED GRADING PERMIT.
- PROVIDE SEDIMENT CONTROL PROTECTION AT INLETS AS SHOWN ON PLAN. (NOTE: BEFORE INLET PROTECTION DEVICES ARE INSTALLED, THE ROADS MUST BE PAVED AND THE R/W STABILIZED.)
- INSTALL STABILIZED CONSTRUCTION ENTRANCES, SILT FENCE AND SWALE SEDIMENT TRAPS
- CONSTRUCT UNITS.
- SILT FENCE IN FRONT OF UNITS MUST BE INSTALLED AS REQUIRED BY THE HOWARD COUNTY INSPECTOR
- AS THEIR CONTRIBUTING DRAINAGE AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED, REMOVE SEDIMENT CONTROL MEASURES AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR BRING AREAS TO FINAL GRADE AND APPLY PERMANENT STABILIZATION.

SEEDING 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 (892-2437).
- All vegetation 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 redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all permanent sediment control structures, ditches, pasture slopes and all slopes greater than 2:1; b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shall 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. 31) and (Sec. 34), temporary seedings (Sec. 30) and mulching (Sec. 32). Temporary stabilization with which slopes can only be done when recommended seedings are not allowed 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	476 Acres
Area Disturbed	376 Acres
Area to be seeded	376 Acres
Area to be vegetatively stabilized	0 Acres
Total Curb	10000 L.F.
Total Filter Cloth	10000 Sq. Yds.
Office waste/borrow area location	N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be replaced 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 permanent erosion and sediment controls. No before building or grading inspection approval may not be warranted until this initial approval by the inspection agency is made.

PERMANENT SEEDING NOTES

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

Seeding 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 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 urea-form 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 31, 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 (0.5 lbs/1000 sq ft) of creeping lovegrass. During the period of October 15 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 and Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 25 gallon per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 6 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 regraded where a short-term vegetative cover is needed.

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

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 25 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 creeping lovegrass (0.7 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 and.

Mulching: Apply 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 25 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 6 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 rates and methods not covered.

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.

Kimberley T. vonPario
Signature of Developer/Builder

1/9/89
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.

1/9/89
Date

SEDIMENT TRAP SCHEDULE		
SEDIMENT TRAP #	1	2
TYPE OF TRAP - STD & SPEC #	ST-IV	ST-IV
DRAINAGE AREA (ACRES)	0.50	0.30
STORAGE REQUIRED (FT ³)	900	540
STORAGE PROVIDED (FT ³)	1,000	600
BASE DIMENSIONS & ELEV	10' x 50'	10' x 30'
WEIR LENGTH & ELEV	10' @ 220'	10' @ 230'
STORAGE DEPTH	2'	2'
EMBANKMENT HT. & TOP ELEV		
MAX DEPTH OF FLOW OVER WEIR		

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM,
HOWARD COUNTY HEALTH DEPARTMENT

James H. Bond, M.D., P.E. 2/16/89
HEALTH OFFICER

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR 3.8.89
DATE

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 2.21.89
DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, PUBLIC STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR 2.2.89
DATE

CHIEF, BUREAU OF ENGINEERING 2-10-89
DATE

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

J. Halmyz 2-7-89
Soil Conservation Service Date

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

APPROVED Stephen P. Fisher 2/6/89
Howard S C D Date

PLAN NUMBER

NO.	DESCRIPTION	DATE	APPROVED	DATE
2	ORIGINAL SUBMITTED	1-9-89		
1	REVISED TO HQ.CD FOR REVIEW	11-10-88		
REVISION APPROVED BY				

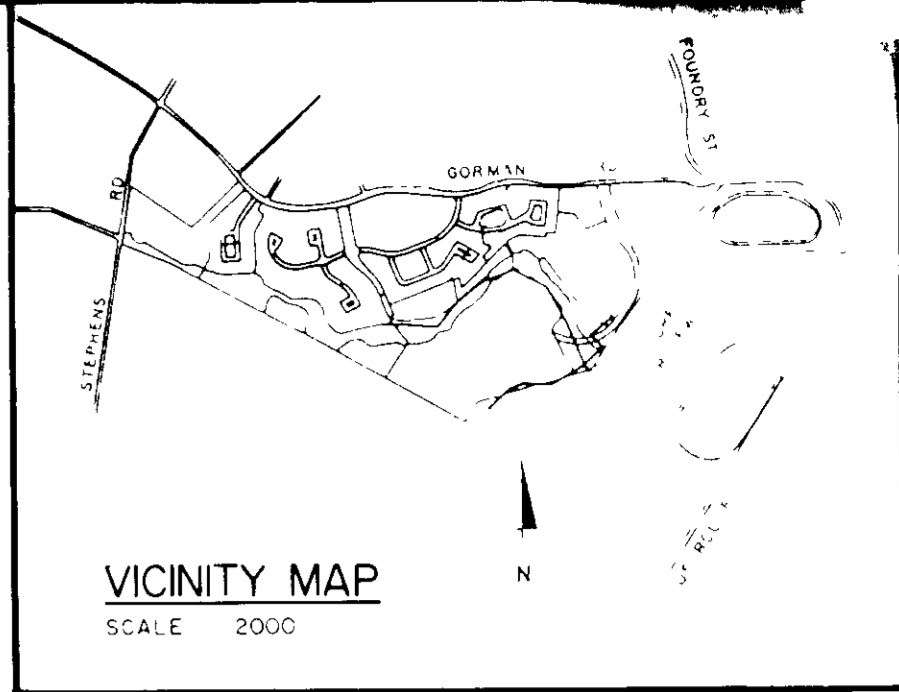
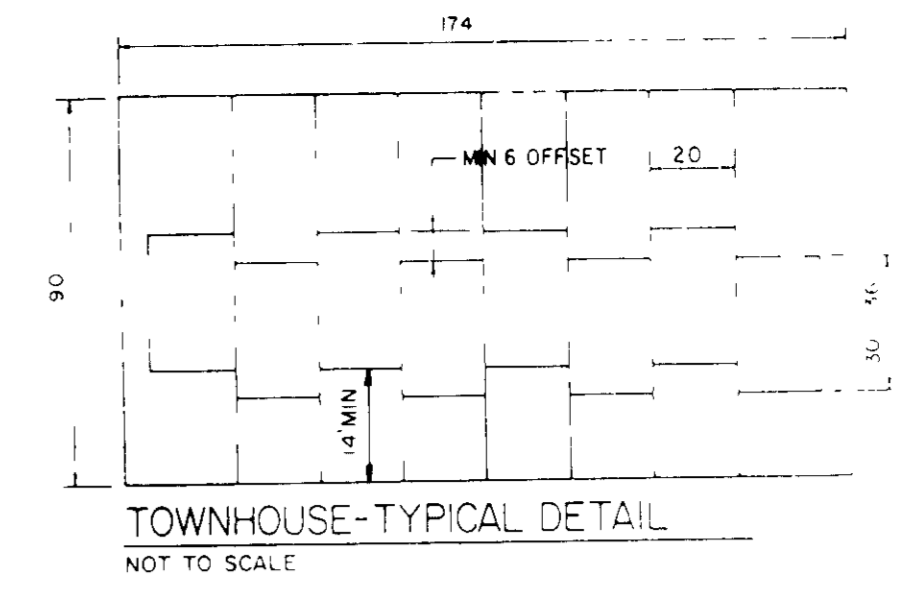
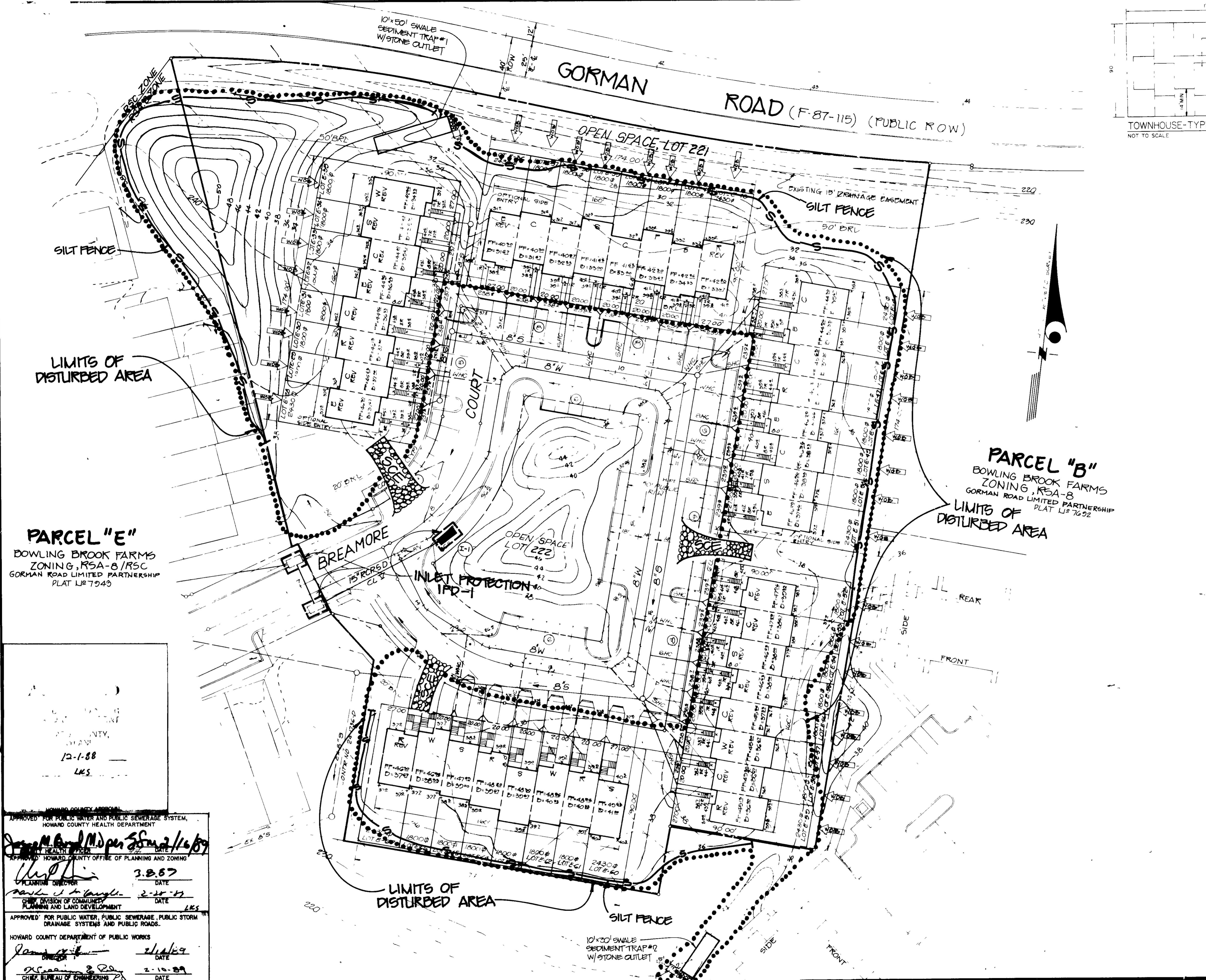
REVISION

DETAIL SHEET

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		SURVEY PHR & A	
SECTION 3, AREA 2		DESIGN	KOR
LOTS E-28 THUR E-67, LOTS 221 & 222		DRAWN	SHEET
A RESUBDIVISION OF PARCEL E BOWLING BROOK FARMS		CHECKED	KOR
TAX MAP 47 PARCEL 141		SCALE	FILE NO
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		C.I.	2164-1-4

SDB-89-95



NOTE: THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY. REFER TO SITE DEVELOPMENT PLAN FOR OTHER INFORMATION.

PARCEL "E"
 BOWLING BROOK FARMS
 ZONING, RSA-8/RSC
 GORMAN ROAD LIMITED PARTNERSHIP
 PLAT L12 7943

PARCEL "B"
 BOWLING BROOK FARMS
 ZONING, RSA-8
 GORMAN ROAD LIMITED PARTNERSHIP
 PLAT L12 7942

HOWARD COUNTY
 12-1-88
 LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM,
 HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd 2/16/89
 APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING AND ZONING
W. H. ... 3-2-87
 APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, PUBLIC STORM
 DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... 2/16/89
 APPROVED FOR HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... 2-15-89

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.
Kimberly T. vonPariss 1/9/89
 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] 1/9/89
 Signature of Engineer Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS
J. Halpin 2-7-89
 U.S. Soil Conservation Service Date

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED *Stephen ...* 2/6/89
 Howard S.C.D. Date

PLAN NUMBER _____

NO.	DESCRIPTION	DATE	APPROVED	DATE
2	ORIGINAL SUBMITTED	1-9-88		
1	REVISION TO 140.00 FOR REVIEW	11-10-88		

REVISION APPROVED BY _____
 PROFESSIONAL SEAL

EROSION AND SEDIMENT CONTROL PLAN

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
 SECTION 3, AREA 2
 LOTS E-28 THRU E-67, LOTS 221 & 222
 A RESUBDIVISION OF PARCEL E BOWLING BROOK FARMS
 TAX MAP 47 PARCEL M1
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SURVEY PHASE	DATE
DESIGN FOR	10 24 88
DRAWN JDW	SHEET
CHECKED G	OF 6
SCALE 1"=20'	FILE NO
C.I. 2'	2184-1-2