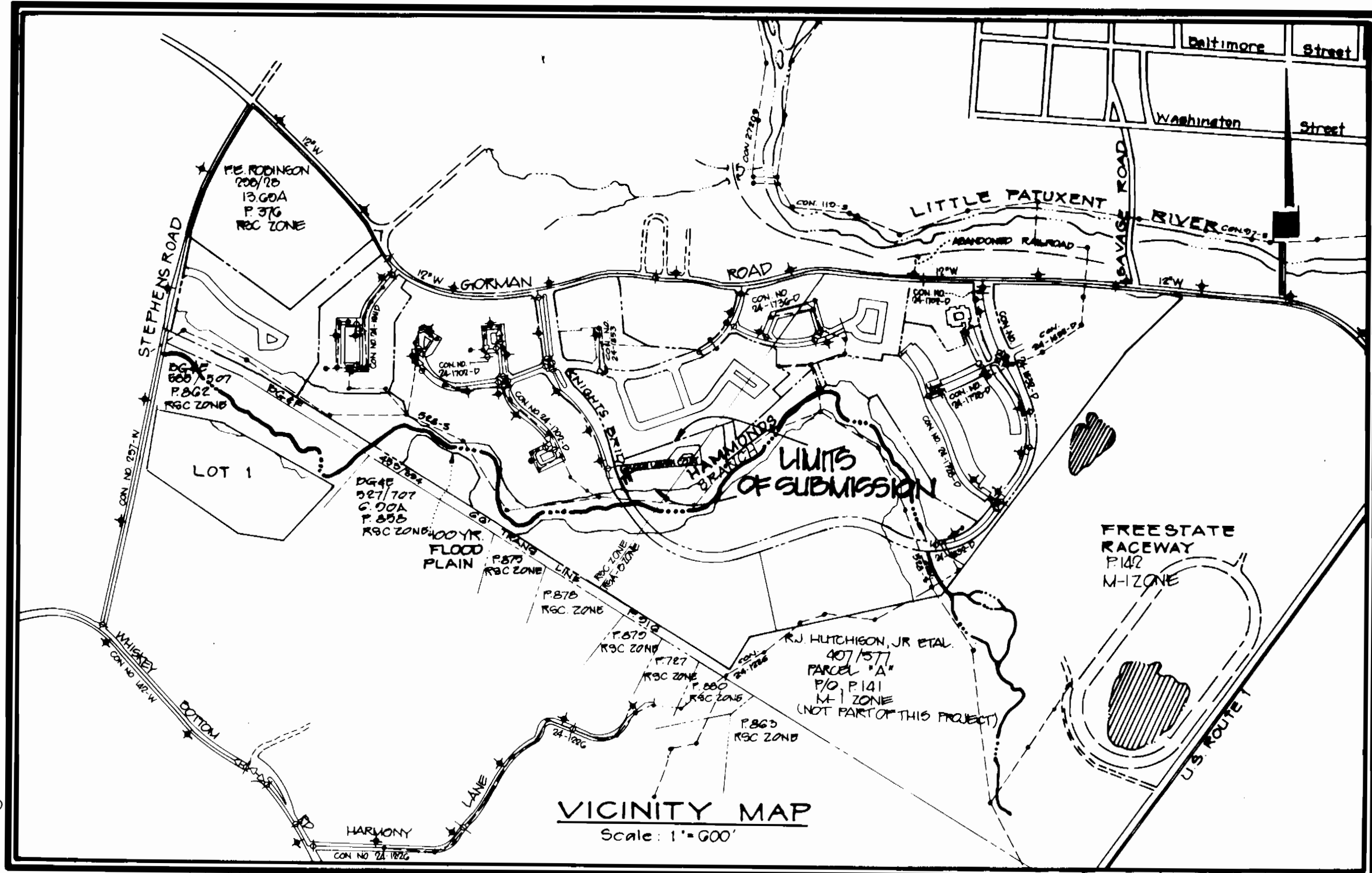


SECTION 4, AREA 2  
PARCEL H  
LOTS H-1 THRU H-22  
**BOWLING BROOK FARMS**  
HOWARD COUNTY, MARYLAND

Lot Number	Invert Elev. @ Prop. Line	Cellar Elev.
H-1	216.14	220.16
H-2	216.14	220.16
H-3	214.90	218.89
H-4	214.90	218.89
H-5	213.75	217.49
H-6	213.75	217.49
H-7	212.59	216.89
H-8	212.59	216.89
H-9	210.57	214.49
H-10	210.57	214.49
H-11	209.42	213.16
H-12	209.42	213.16
H-13	208.28	211.89
H-14	208.28	211.89
H-15	207.13	210.49
H-16	207.13	210.49
H-17	206.45	210.49
H-18	206.45	210.49
H-19	207.30	211.16
H-20	207.30	211.16
H-21	208.19	213.16
H-22	208.19	213.16

QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL/SUPPLIER
8" SEWER	505 LF.	570 LF.	1-1/2" MANUFACTURING CORPORATION RELAY ROAD SUPPLY
MANHOLE	4 EACH	4 EA	ATLANTIC RELAY ROAD SUPPLY
8" WATER	500 LF.	570 LF.	RELAY ROAD SUPPLY ATLANTIC WATER CO. (NOT USED)
12" WATER			
8" VALVE	1 EACH	1 EA	WELLER COMPANY RELAY ROAD SUPPLY
12" VALVE			
FIRE HYDRANT	2 EACH	2 EA	WELLER COMPANY RELAY ROAD SUPPLY
AIR RELEASE MANHOLE			
BLOW OFF VALVE			
6" WATER	40'	40'	ATLANTIC WATER CO. (NOT USED) RELAY ROAD SUPPLY
2" WATER			
6" VALVE	2 EACH	2 EA	WELLER COMPANY RELAY ROAD SUPPLY



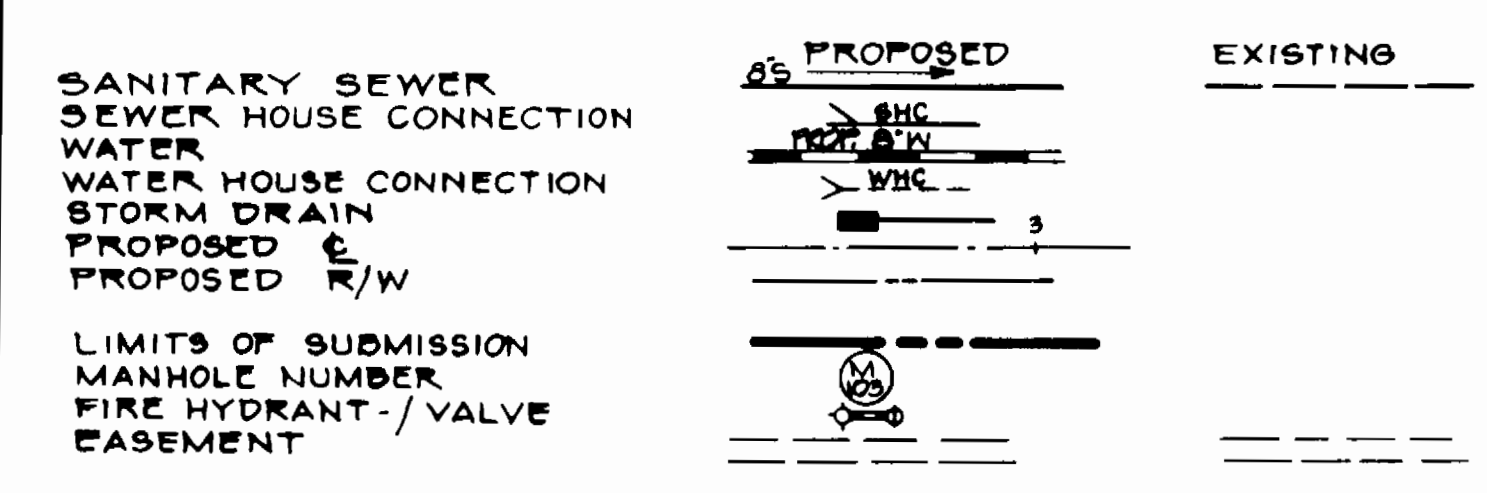
TYPE OF BUILDINGS	TOWNHOUSE
NUMBER OF LOTS	22
NUMBER OF WATER HOUSE CONNECTIONS	22
NUMBER OF SEWER HOUSE CONNECTIONS	22
DRAINAGE AREA	LITTLE PATUXENT

**CONTRACT NO. 24-1847-D**  
**WATER AND SEWER**  
**CONSTRUCTION PLANS**

**GENERAL NOTES**

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 - 298-9813 (TROUBLE SHOOTING)  
"MISS UTILITY" 888-257-7777  
CHESAPEAKE & POTOMAC (CAP) 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 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.
8. ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE PLANE COORDINATES SYSTEM PROVIDED BY HOWARD COUNTY.
9. TOPOGRAPHY TAKEN FROM MAPS PREPARED BY PHOTOGRAMMETRY BY "AERIAL SURVEY" IN 1984. TOPOGRAPHY FIELD CHECKED 1986.
10. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
11. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
12. TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
13. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
14. ALL WATER MAIN FITTINGS REQUIRE CONCRETE THRUST BLOCKS AS DESCRIBED IN HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS MANUAL, VOLUME IV.
15. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
16. CLEAR ALL UTILITIES BY A MINIMUM OF 12". 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.
17. SEPARATION BETWEEN WATER AND SANITARY SEWER: WATER MAINS SHALL BE LAID AT LEAST TEN FEET (10') HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. DEVIATION MAY BE ALLOWED FOR INSTALLATION OF THE WATER MAIN CLOSER TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH, SUCH THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX FEET (6') ABOVE THE TOP OF THE SEWER. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE INCHES (12") BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER LINE.
18. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATIONS.
19. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
20. ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400, OR P.V.C. UNLESS OTHERWISE NOTED.
21. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
22. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
23. ALL FIRE HYDRANTS SHALL BE SITUATED PER "LOCATION A", STD. DETAIL W.1.1.
24. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
25. SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.

**LEGEND**



WATER CODE: C03  
SEWER CODE: 7270000

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F-89-120

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
*James McNamee*  
SIGNATURE  
1-30-89  
DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.  
*John R. Robertson*  
APPROVED  
1-30-89  
DATE  
HOWARD SCD

OWNER/DEVELOPER  
GORMAN ROAD LIMITED PARTNERSHIP  
C/O JAMES F. KNOTT DEVELOPMENT CORPORATION  
118 WEST ROAD, SUITE 203  
TOWSON, MARYLAND 21284  
(301) 321-6436

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DATE: 2-7-89  
DATE: 2-7-89

**PHR&A**  
PATTON, HARRIS, RUST & ASSOCIATES, PC  
7809 STANDISH PLACE  
ROCKVILLE, MARYLAND 20855  
METRO: 301-762-2220 BALT.: 301-792-7244

DES: MJK					
ORN:					
CHK:	2	ISSUED TO HQ.CO. FOR SIGNATURES	1-10-89		
DATE:	1	ISSUED TO HQ.CO. FOR REVIEW	12-30-88		
BY	NO.	REVISION	DATE		

TITLE SHEET

600' SCALE MAP NO. 47 BLOCK NO.

**BOWLING BROOK FARMS**  
SECTION 4, AREA 2  
PARCEL H LOTS H-1 THRU H-22  
CONTRACT NO. 24-1847-D  
A RESUBDIVISION OF PARCEL H, BOWLING BROOK FARMS  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 1 OF 2

BRUNING 69150



