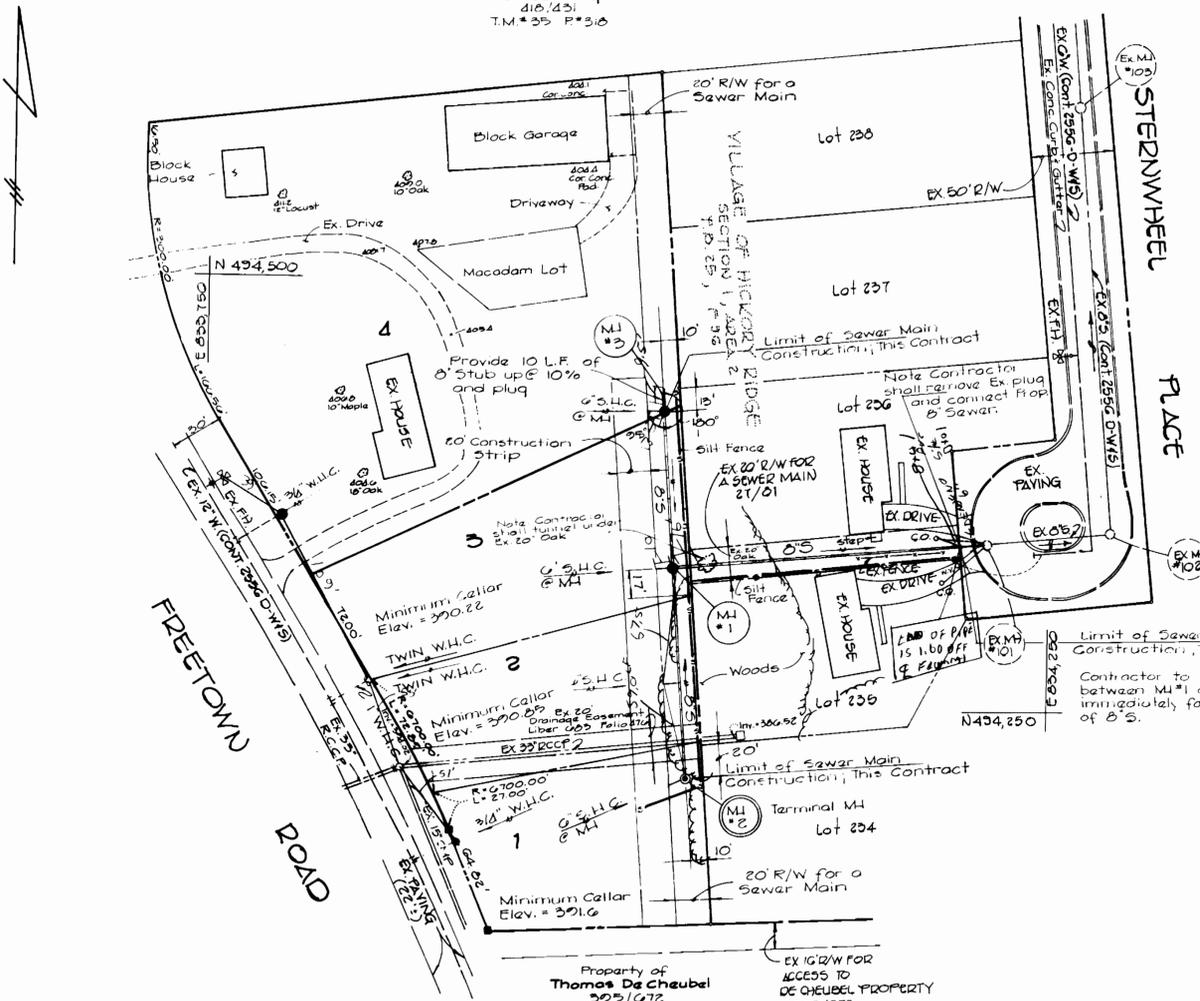


Property of James King
d.b. 1431
T.M. # 35 P. 316

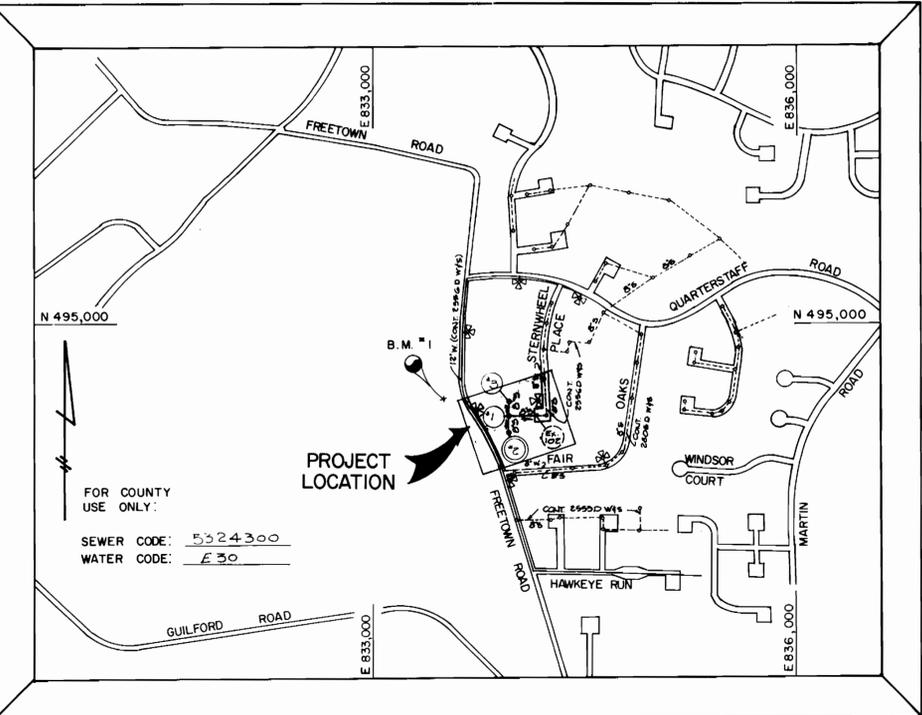
BENCH MARKS

B.M. 1 ELEV 416.32,
HOWARD COUNTY MONUMENT
2439001, 350' NORTHWEST
OF THE EX. HOUSE ON KING PROP.
SEE VICINITY MAP

Note:
Prior to any construction
on this contract the contractor shall
excavate Ex. Sewer Plug @ Sternwheel
Place and verify As-Built elevation;
location:



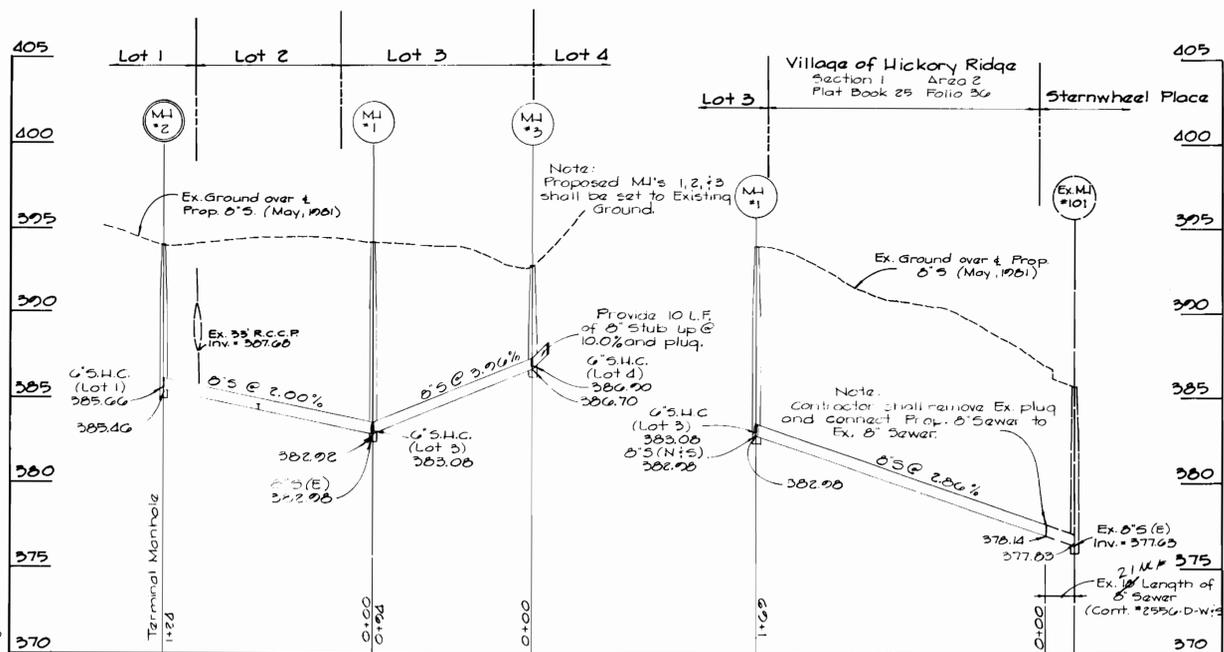
Station	Lot #	Elev.
M4 #1	to M4 #2	
M4 #1 Rt.	Lot 3	383.20
0+68 Rt.	Lot 2	384.62
M4 #2 Rt.	Lot 1	385.66
M4 #1	to M4 #3	
M4 #1 Lt.	Lot 4	387.10



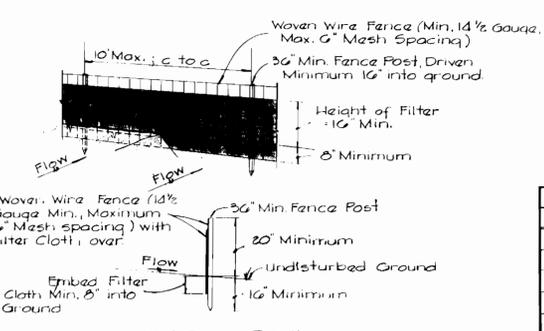
TYPE OF BUILDINGS	Residential
NUMBER OF LOTS	4
NO. OF WATER HOUSE CONNS.	4
NO. OF SEWER HOUSE CONNS.	4
DRAINAGE AREA	Little Patuxent

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
BALTIMORE GAS & ELECTRIC CO.-CONTRACTOR SERVICES 561-2585
BALTIMORE GAS & ELECTRIC CO.-UNDERGROUND DAMAGE CONTROL 234-5621
BALTIMORE GAS & ELECTRIC CO.-TROUBLE SHOOTING 298-9013
MISS UTILITY - (1-559-0100)
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPE FITTINGS ONLY.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.P.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- WATER MAIN AND WATER HOUSE CONNECTION LINE MUST BE PLACED 50 AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.



PROFILE
SCALE: 1" = 50' HOR.
1" = 5' VERT.



Item	Est'd.	Quantities		Supplier
		As-Built		
8" Sewer	387 L.F.	368	2 F	HUNTER PVC PIPE, SUR-35
6" Sewer	40 L.F.	50	2 F	HUNTER PVC PIPE, SDR-35
Manholes	3 Ea.	3 Ea.		ATLANTIC PRECAST CONCRETE
1" W.H.C.	22 L.F.	22	L.F.	CAMBRIDGE ZEE TYPE K COPPER TUBING
3/4" W.H.C.	52 L.F.	55	L.F.	CAMBRIDGE ZEE TYPE K COPPER TUBING

- Woven Wire Fence to be fastened securely to fence posts with wire ties or staples.
- Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid-section.
- When 2 sections of Filter Cloth adjoin each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

PROPERTY OF JAMES & AUDREY KING
WATER AND SEWER MAIN EXTENSION
CONTRACT NO. 24-1382 D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

Review for Howard County Soil Conservation District and meets Technical Requirements. Approved:
Stephen M. Helm 2/13/86
U.S. Soil Conservation Service Date

Sediment Control measures for this contract will be implemented in accordance with Article 15 of the Howard County Design Manual and Standards; Specifications for Soil Erosion; Sediment Control in developing areas and also as shown on the Grading; Sediment Control Plan F 05-20.

This Development Plan is approved for erosion and sediment control by Howard Soil Conservation District. Approved:
Stephen M. Helm 2/13/86
Howard Soil Conservation District Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Wood 2-25-86
DIRECTOR OF PUBLIC WORKS DATE

Robert Wood 2-25-86
CHIEF, BUREAU OF UTILITIES DATE

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

8398 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
461-2855

Terrell A. Fisher
TERRELL A. FISHER DATE

DES: D.B.S.	
DRN: D.B.S.	
CHK: T.A.F.	
DATE: 2/13/86	
BY: NO.	
REVISION	
DATE	

PLAN, PROFILE & DETAILS
SEWER MAINS

600' SCALE MAP NO. 35 BLOCK NO.

PROPERTY OF JAMES & AUDREY KING
WATER AND SEWER MAIN EXTENSION
CONTRACT NO. 24-1382 D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 1