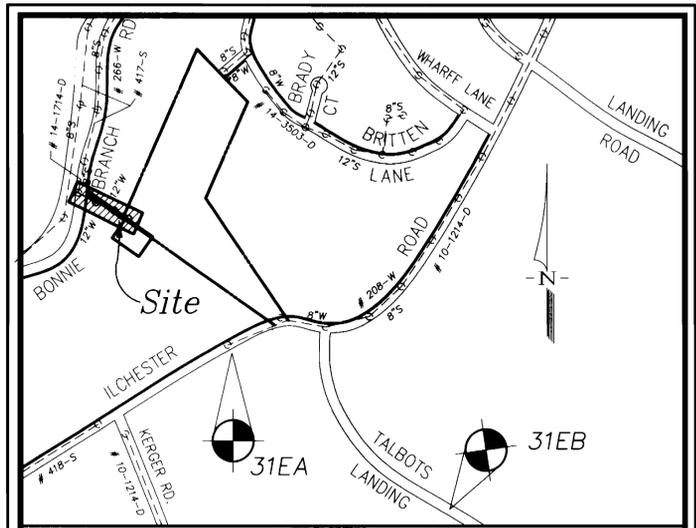


# SEWER MAIN EXTENSION CRESTWOOD PHASE I

## 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 10-3679-D



VICINITY MAP SCALE: 1" = 600'	
WATER AND SEWER CODE COUNTY USE	TYPE OF BUILDING: RESIDENTIAL
WATER CODE : 609	DRAINAGE AREA : PATAPSCO
TEST GRADIENT : 780	TREATMENT PLANT: PATAPSCO
SEWER CODE : 1255000	NO. OF LOTS : 0
	BUILDABLE LOTS : 0 OPEN SPACES : 0
	NO. OF PROPOSED SHC : 2
	NO. OF PROPOSED WHC : 0

THE COORDINATES SHOWN HEREON ARE BASED UPON HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY MONUMENTS Nos. 31EA AND 31EB.

31EA  
North 569641.149  
East 1374816.064  
Elev. 469.628

31EB  
North 568731.012  
East 1376273.619  
Elev. 453.420

QUANTITIES				
ITEM	QUANTITIES EST'D	QUANTITIES	AS-BUILT TYPE	SUPPLIER/MANUFACTURER
4' MANHOLE	4' EACH	4		ATLANTIC
8" S (PVC)	427 L.F.	405	PVC	US FILTER J.M. MANUFACTURE
4" SHC (PVC)	38 L.F.	5	PVC	"

NAME OF UTILITY CONTRACTOR: UTILITIES UNLIMITED INC.

CHECKBOX:  
 AS-BUILT DATE:  
 SURVEY AND DRAFTING DIVISION

PLAN REFERENCE NUMBERS	
P-98-04	F-98-115

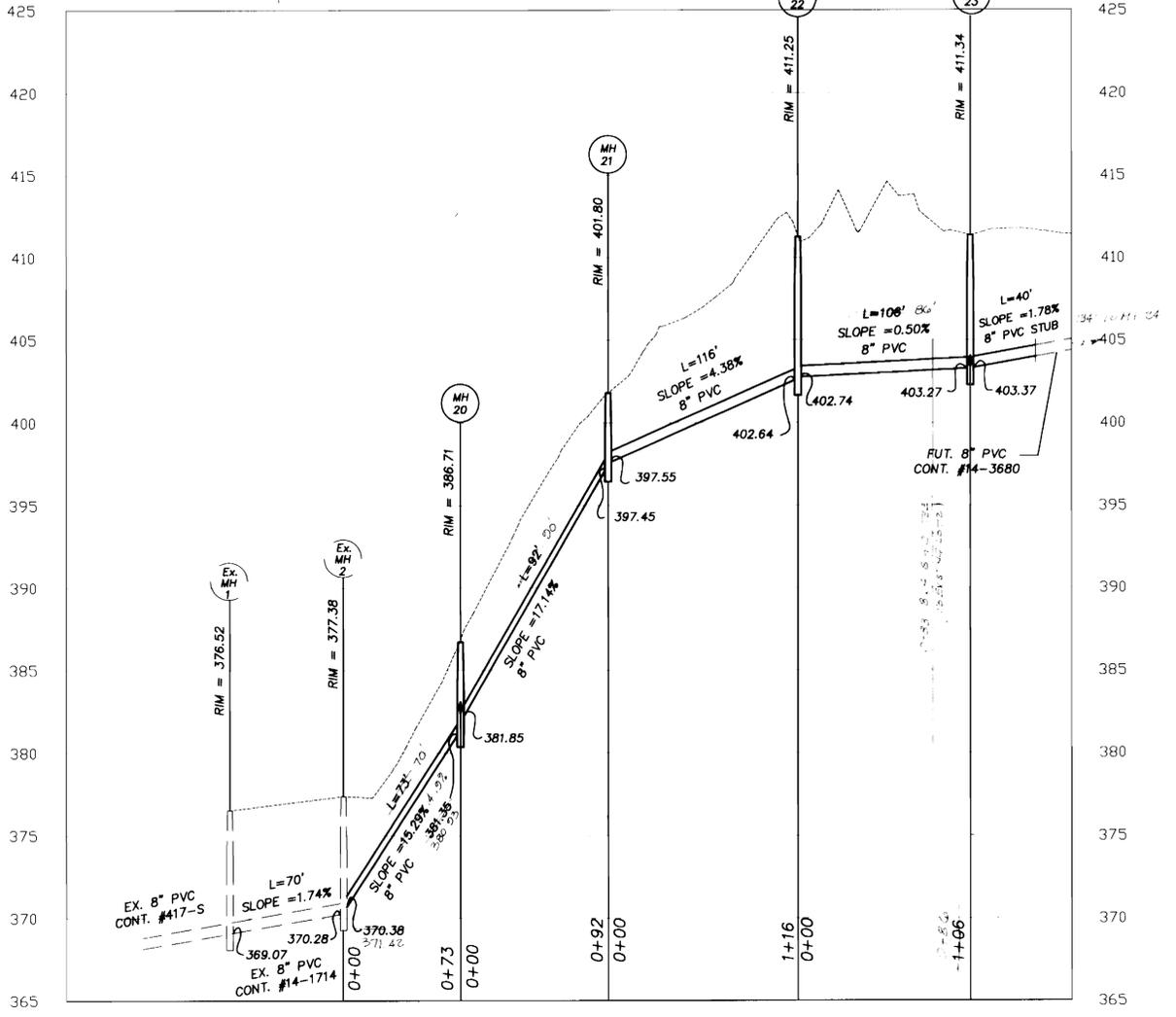
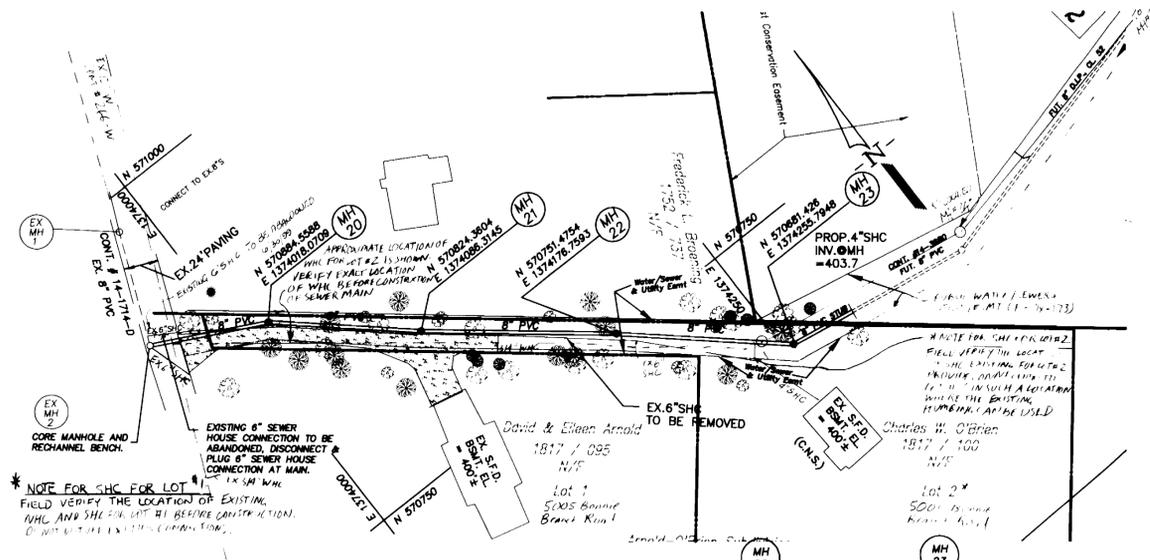
### SEWER NOTES

- ALL SEWER MAINS SHALL BE D.I.P. AND P.V.C. UNLESS OTHERWISE NOTED.
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - FORCE MAINS SHALL BE D.I.P. ONLY.
  - MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR IRON MANHOLES ONLY.
  - MANHOLES DESIGNATED W/T IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS STANDARD DETAIL CO.52, WHERE WATER-TIGHT MANHOLES FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- 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 P-99-115.
- REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
- U.S. NATURAL RESOURCES CONSERVATION SERVICES DATE
- THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- APPROVED:
- HOWARD SOIL CONSERVATION DISTRICT DATE

### 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.C.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY 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 BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWNED BY 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 (LATEST EDITION). 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 (M) 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: STATE HIGHWAY ADMINISTRATION: 531-5533; BALTIMORE GAS & ELECTRIC CO.-CONTRACTOR SERVICES: 850-4620; BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL: 787-9088; BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING: 298-9001; MISS UTILITY: 1-800-257-7777; COLONIAL PIPELINE COMPANY: 795-1390; BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS: 313-4900; C & P TELEPHONE COMPANY: 1-800-257-7777.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.



- NOTES:  
 1. UNLESS OTHERWISE SHOWN ALL PROPOSED SHC ARE 4"  
 2. UNLESS OTHERWISE SHOWN ALL PROPOSED SEWER MANHOLES ARE HO.CO. STD. G.5.12.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert S. ...*  
CHIEF, BUREAU OF UTILITIES  
DATE: 8-13-98

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*Howard ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 8/13/98

R.M. MOCHI GROUP, P.C.  
P.O. Box 10  
New Market, MD 21774-0010  
(301) 865-5858  
Fax: (301) 865-5111

*David ...*  
DATE: 5-05-98

DES: M.W.Z.			
DRN: A.R.M.			
CHK: R.M.M.	1	AS BUILT CONDITIONS NOTED TO PLAN	4/24/99
PROJ: 198004.20	0	SUBMITTED TO HOWARD CO. D.P.Z.	5/5/98
DATE: 5-05-98	no.	description	revisions

WATER AND SEWER MAIN  
PLAN AND PROFILE

600' SCALE MAP NO. 31 BLOCK NO. 9 & 15

CONTRACT # 10-3679-D  
CRESTWOOD

ELECTION DISTRICT No. 1 HOWARD COUNTY

SCALE  
1" = 50'

SHEET  
1 OF 1