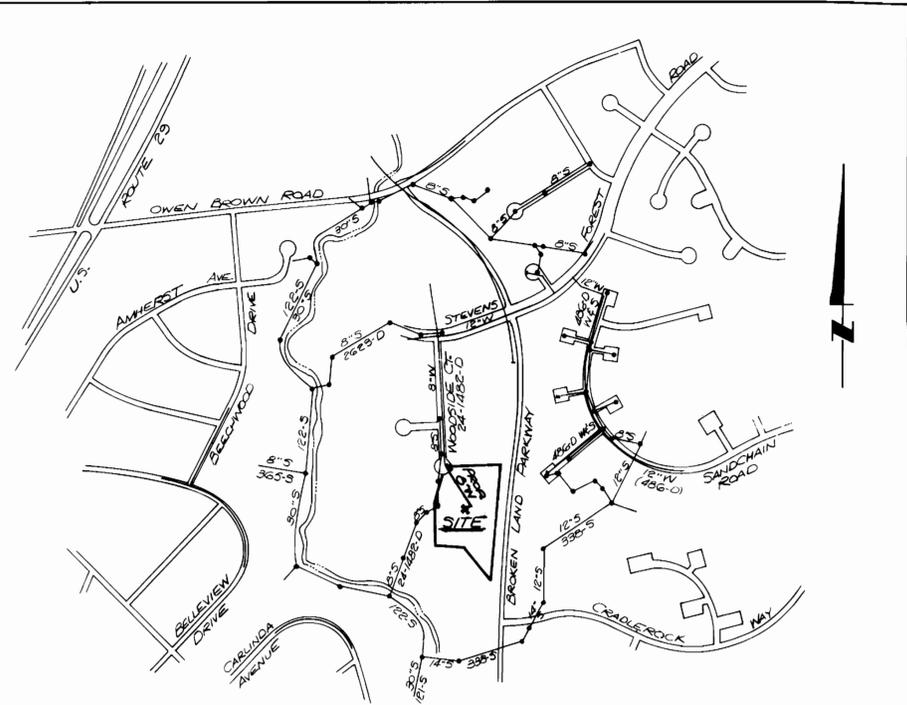
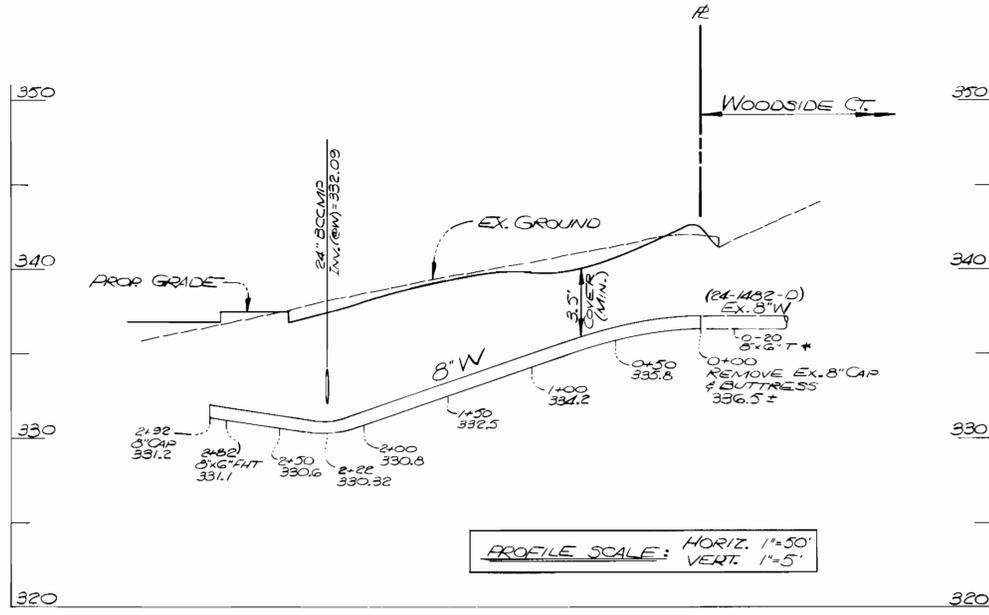


GENERAL NOTES

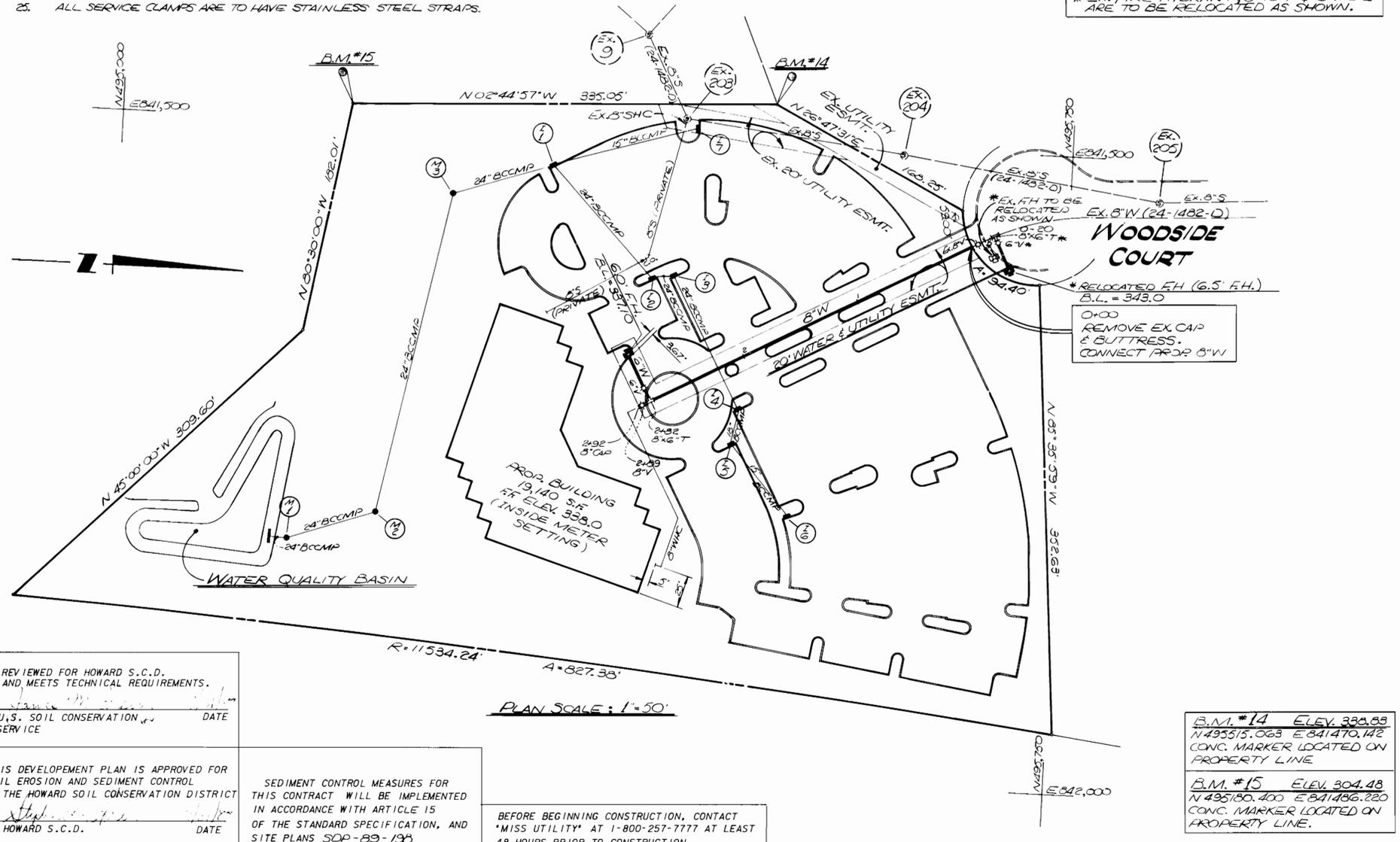
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- 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.
- 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.

STATE HIGHWAY ADMINISTRATION	531-5533
BALTIMORE GAS & ELECTRIC CO.	CONTRACTOR SERVICE 561-2585
BALTIMORE GAS & ELECTRIC CO.	UNDERGROUND DAMAGE CONTROL 234-5621
BALTIMORE GAS & ELECTRIC CO.	TROUBLE SHOOTING 298-9013
MISS UTILITY	1-559-0100
COLONIAL PIPELINE CO.	795-1390
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.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE 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.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED.
- EXTEND PIPE AS NECESSARY TO INSTALL PLUG FOR BLOCKING, WHERE WATER MAINS END WITH VALVES.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., A.C.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 OTHERWISE NOTED.
- ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN FEB., 1959.
- STRAW BALE DIKES AND SILT FENCES ARE INTERCHANGEABLE.
- ALL DIP FITTINGS SHALL BE IN ACCORDANCE WITH A.M.W.A. SPECIFICATION C-153, DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.
- ALL SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.



VICINITY MAP SCALE: 1"=600'

WATER & SEWER CODE: (FOR COUNTY USE)	DRAINAGE AREA: PATAPSCO
WATER: E/B	TYPE OF BUILDINGS: OFFICE
SEWER: 5410000	NO. OF SHC: 1
	NO. OF WHC: 1
	NO. OF LOTS: 1



REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATION, AND SITE PLANS SDP-89-193

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

B.M. #14 ELEV. 332.89
 N 49°55'15.063" E 841470.142
 CONC. MARKER LOCATED ON PROPERTY LINE

B.M. #15 ELEV. 304.48
 N 49°18'0.400" E 841486.220
 CONC. MARKER LOCATED ON PROPERTY LINE.

ITEM	QUANTITIES		MATERIAL / SUPPLIER
	BID	AS-BUILT	
8" WATER MAIN	292.24		
6" WATER MAIN	70.64		
6" X 6" T HYDRANT	1		
6" VALVE	1		
8" CAP	1		
8" VALVE	1		

VILLAGE OF OWEN BROWN SECTION 5 AREA 1 PARCEL E-5

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. ... 8/2/89
 DIRECTOR OF PUBLIC WORKS DATE

Robert ... 8/2/89
 CHIEF, BUREAU OF ENGINEERING DATE

Michael ... 7-10-89
 CHIEF, BUREAU OF UTILITIES DATE

Paul ... 8/1/89
 CHIEF, LAND DEVELOPMENT DIVISION DATE

ENGINEERS-ARCHITECTS-PLANNERS-SCIENTISTS-SURVEYORS-PHOTODUROMETRISTS
GREENHORNE & O'MARA, INC.
 113 WEST ROAD, SUITE 208
 BALTIMORE, MARYLAND 21204
 (301) 296-4100



DES: JDP				
DRN: JDP/um				
CHK: RHM				
DATE: April, 1989	BY NO.	REVISIONS	DATE	

PLAN & PROFILE FOR
WATER MAIN EXTENSION

600' SCALE MAP NO. 36 BLOCK NO. 14

HILLCROFT OFFICE BUILDING II

CONTRACT NO. 44-1958-D
 6TH ELECTION DISTRICT
 HOWARD CO., MARYLAND

SCALE: AS SHOWN
 SHEET 1 OF 1