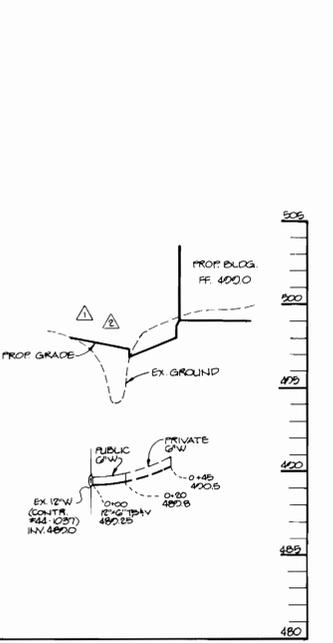
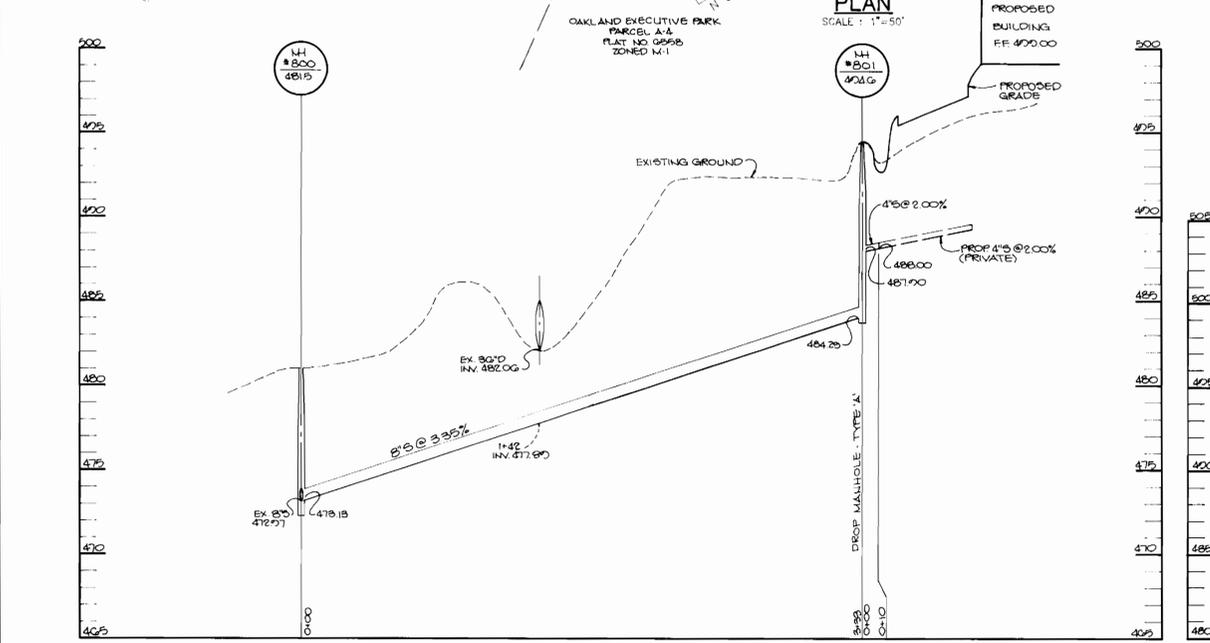
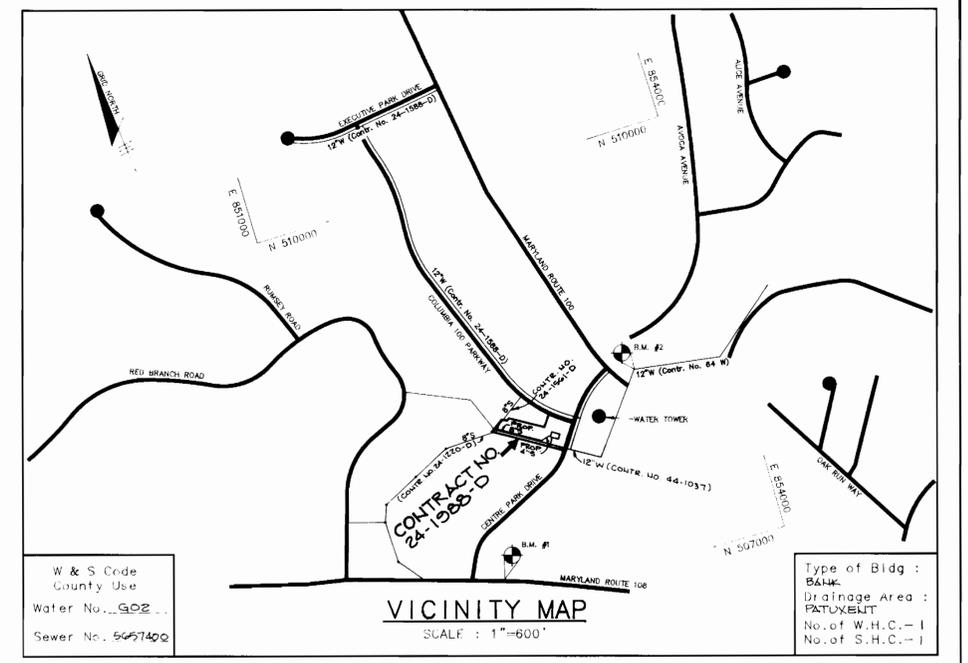


BENCH MARKS

B.M. #1	Elev. 482.29
Ho.Co. 274-5010-R 3/4" Rebar 0.4' below the surface, 34.7' south of curb on Maryland Route 108 175.1' East of Phelps Luck Drive.	
B.M. #2	Elev. 525.51
Nail in stone at property corner Columbin 100 - Office Research Park	

Item	Estimated	As Built	Material Supplier
8" SEWER	333 LF	334 LF	CHARLOTTE PIPE
4" SEWER	10 LF	10 LF	CHARLOTTE PIPE
MANHOLES	176 V.F.	1 Ea.	ATLANTIC
G. WATER	20 LF	20 LF	A&P TYLER PIPE
T.S.V.	1 EACH	1 Ea.	A&P MUELLER CO.



- 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 \ominus invert elevations.
 - Clear all utilities by a minimum of 6".
 - For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume 1, *Proposed Amendments, 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 \boxtimes 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 verified by the contractor to his own personal satisfaction. Any damage to existing facilities due to the contractor's negligence shall be repaired at the contractor's expense.
 - The 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 and Electric Co. - Contractor Services	850-4620
Baltimore Gas and Electric Co. - Underground Damage Control	859-9004
Baltimore Gas and Electric Co. - Trouble Shooting	298-9001
Miss Utility	1-559-0100
Colonial Pipeline Co.	795-1390
Bureau of Utilities, Ho.Co. Department of Public Works	992-2366
C & P Telephone Co.	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.
 - The 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.
 - All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X. 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.
 - Manholes shown with 12" and 16" walls are for brick manholes only.
 - Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame "6" above finished grade unless otherwise noted on the drawings.
 - House(s) with the symbol "C.N.S." indicates that the cellar cannot be served.

Sediment control measures for this contract will be implemented in accordance with Section 215 of the Specifications and as shown on SDP-85-7-88.

John L. Robertson 11/14/89
HOWARD SOIL CONSERVATION DISTRICT

Review for Howard Soil Conservation District and meets technical requirements.

James H. Selman 11-16-89
U.S. SOIL CONSERVATION SERVICE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

John L. Robertson 11/14/89
HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>James H. Selman</i> 11/29/89 DIRECTOR OF PUBLIC WORKS <i>Robert M. Beninger</i> 11-8-89 CHIEF, BUREAU OF UTILITIES		RIEMER MUEGGE & ASSOCIATES, INC. 3105 NORTH RIDGE ROAD ELLICOTT CITY, MARYLAND (301) 461-2690 <i>Arthur E. Muegge</i> 4/8/70		DES: W.C.W. DRN: C.A.D. CHK: W.A.D. Δ CHANGED 8" WHC TO 6" W, ADDED WATER PROFILE 10-29-89 W.A.D. Δ CHANGED 6" W TO 8" WHC, REMOVED WATER PROFILE 10-27-89 DATE: 10-20-89 BY NO. REVISION DATE		PLAN AND PROFILE OF A SEWER MAIN AND A WATER MAIN 600' SCALE MAP NO. 30 BLOCK NO.		COLUMBIA 100 - SOVRAN BANK 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-1988-D SCALE AS SHOWN SHEET 1 OF 1	
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