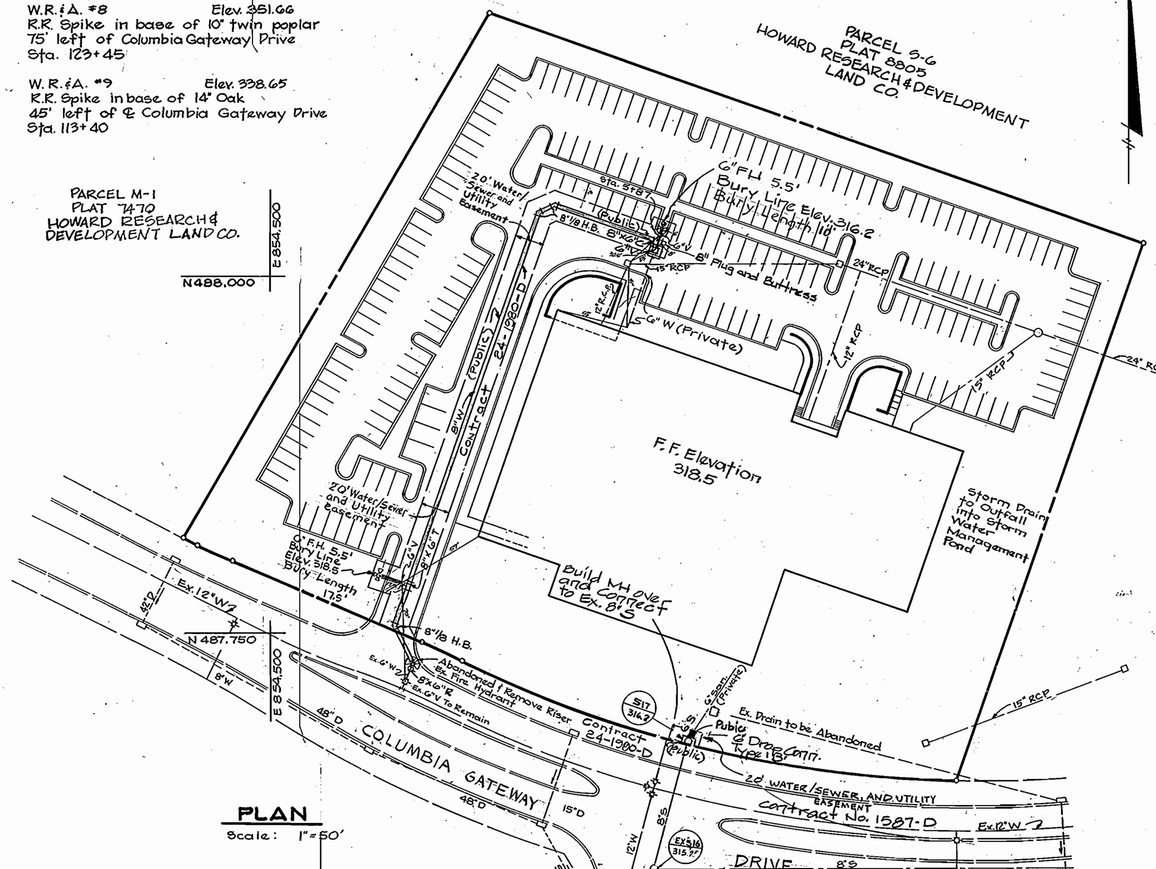
Bench Mark

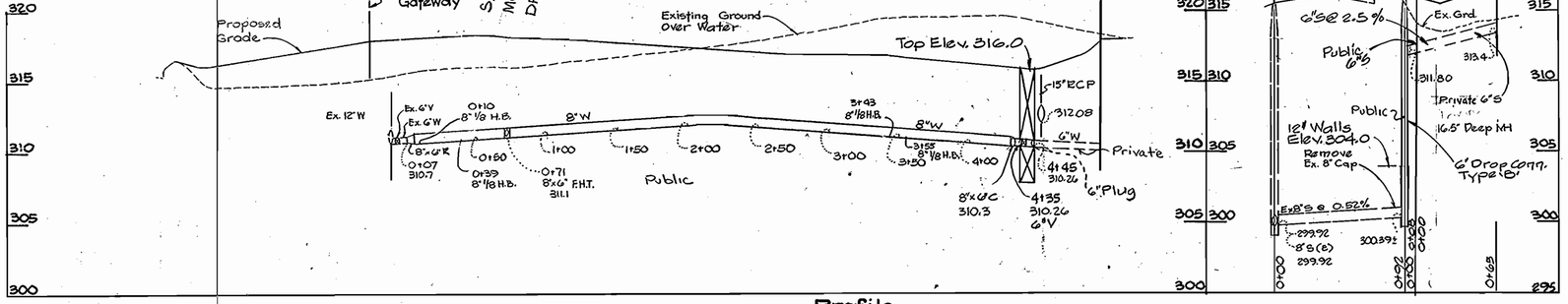
W.R.&A. #8 Elev. 351.66
R.R. Spike in base of 10" twin poplar
75' left of Columbia Gateway Drive
Sta. 123+45

W. R. & A. #9 Elev. 338.65
R.R. Spike in base of 14" Oak
45' left of ℄ Columbia Gateway Drive
Sta. 113+40



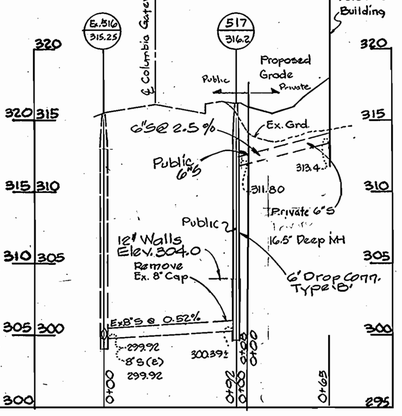
PLAN

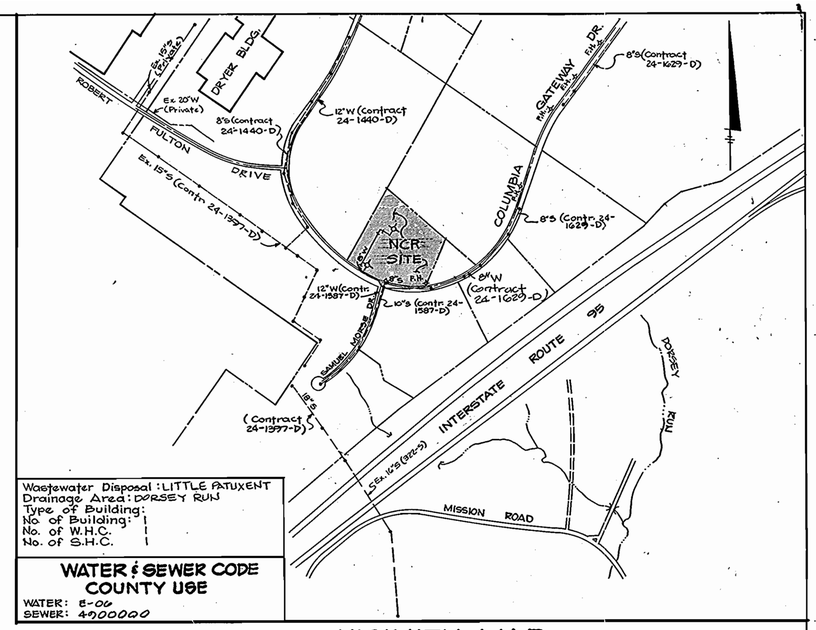
Scale: 1"=50'



Profile

Scale: 1"=50' Hor.
1"=5' Vert.





Wastewater Disposal: LITTLE PATUXENT
Drainage Area: DORSEY RUN
Type of Building:
No. of Building: 1
No. of W.H.C. 1
No. of S.H.C.

WATER & SEWER CODE
COUNTY USE
WATER: 8-00
SEWER: 4900000

VICINITY MAP

Scale: 1"=600'

QUANTITIES			
ITEM	BID	AS BUILT	MATERIAL/SUPPLIER
8" Water L.F.	455	423 L.F.	GRIFFEN PIPE
Fire Hydrant Ea.	2	2 EA.	KENNEDY
Meter Vault Ea.	1	VOID	VOID
8" x 8" SLEEVE	1	1 EA.	TYLER PIPE
6" WATER L.F.		105 L.F.	GRIFFEN PIPE
8" Sewer L.F.	6	65 L.F.	NATIONAL
Manhole Ea.	1	1 EA.	MARYLAND PRECAST CORP.

GENERAL NOTES

1. Approximate location of existing main 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.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U.S.G.S. datum
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum 6" clear all poles by 2'-0" minimum or tunnel as required.
6. For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV: 1989, Amendments Standards, Specifications and Details for Construction. The contractor shall have a copy of volume IV on the Job.
7. 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 verified by the contractor, to his own satisfaction. Any damage to existing facilites due the contractors negligence shall be repaired at the contractors expense.
8. Contractor shall notify the following utilities or agencies at lease five working days before starting work shown on these plans:

   State Highway Administration - 531-5533
   Baltimore Gas and Electric Co.- Contractor Services - 850-4627
   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/C & P Telephone Co.-1-800-257-7777
   Bureau of Utilities, Howard County Department of Public Works - 992-2356

9. 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.
10. Contractor shall remove trees, stumps and roots along the line of excavation.
11. All water mains to be D.I.P Class 52 unless otherwise noted.
12. Tops of all water mains to have a minimum of 3'-½" cover unless otherwise noted.
13. Valves adjacent to tees shall be strapped to tees.
14. All fittings shall be buttressed or anchored with concrete in accordance with standard details unless otherwise provided for on the drawings.
15. 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 the standard specifications.
16. The contractor shall not operate any water main valves on the existing water system.
17. All sewer mains shall be C.S.P.X., D.I.P., V.C.P.X. or P.V.C. unless otherwise noted.
18. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
19. All manholes shall be 4'-0" inside diameter unless otherwise noted.
20. Manholes shown with 12" and 16" walls are for brick manholes only.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
James M. Helm 10/19/89
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED: John R. Robertson 10/19/89
HOWARD COUNTY S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Section 219 of the Standard Specifications, and SDP-89-252.

Thomas J Shafer

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS — DATE 10/20/89	CHIEF, BUREAU OF ENGINEERING — DATE 10/19/89
CHIEF - BUREAU OF UTILITIES — DATE 10-10-89	CHIEF - LAND DEVELOPMENT DIVISION — DATE 10/19/89

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 ST. PAUL ST.
BALTIMORE, MARYLAND 21218

DES: DRN: CHK: DATE: MAY 1989

BY	NO.	REVISION	DATE
J.B.	1	Added 6"V after 8"x6" Cross	4/20/90

600' SCALE MAP NO. _____ BLOCK NO. _____

VICINITY MAP AND GENERAL NOTES

WATER & SEWER
COLUMBIA GATEWAY
NCR MID-ATLANTIC DATA CENTER
PARCEL S-2
ELECTION DISTRICT NO. 6
CONTRACT NO. 24-1980-D

SCALE AS SHOWN

1

AS-BUILT 7/17/90

92550
0ZALID