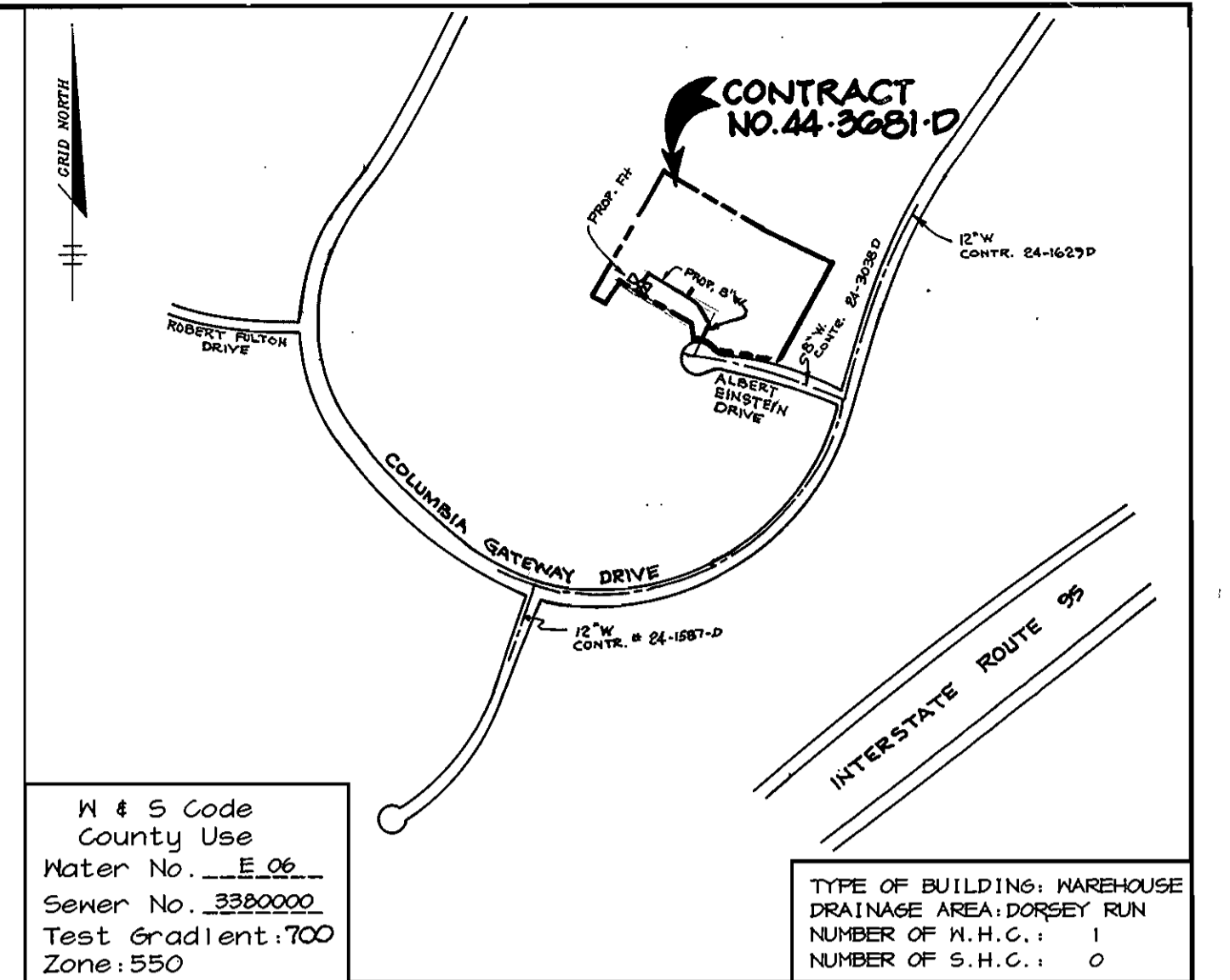


**WATER PROFILE**  
 SCALE:  
 HOR. - 1"=50'  
 VERT. - 1"=5'

**BENCHMARKS**

BM 1 ELEV. 329.67  
 N 488,408.12 E 855,747.99  
 BM 2 ELEV. 326.04  
 N 488,448.98 E 855,415.44



**VICINITY MAP**  
 SCALE: 1"=600'

**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 bracing of additional poles or damage shall be deducted from money owed 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 Detail 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 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 utility companies 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 787-4068  
 Miss Utility 1-800-251-TTTT  
 Colonial Pipeline Co. 745-1340  
 Bureau of Utilities, Howard County Department of Public Works 313-4900
- 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.
- All water mains to be D.I.P. Class 52 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 restrained and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 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 inside meter setting unless otherwise noted on plans or in specifications.
- Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- The fire hydrant shall be installed as per standard detail N.1.11.
- Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.
- The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-7450 at least five (5) working days before any open cut of any county road or boring/lacking operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPM requirements per Section 18.114(a) of the Howard County Code.
- Howard County DPM is hereby granted permission to access private lots shown on these plans in order to maintain public water and/or sewer house connections at the curb stops and/or cleanouts.

**QUANTITIES**

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" WATER	309 LF	296 LF	Ductile Iron	U.S. Pipe & Foundry
6" WATER	11 LF	6 LF	Ductile Iron	Foundry
8" X 8" T	1 EA.	1 EA.	Ductile Iron	Foundry
8" V	1 EA.	1 EA.	Resilient Seat	O.R. M. Gade
6" V	1 EA.	1 EA.	Resilient Seat	O.R. M. Gade
FIRE HYDRANTS	1 EA.	1 EA.	Super Centurion	Mueller Co.
8" 1/8 HB	2 EA.	2 EA.	MJ Compact	Foundry
8" X 8" T	1 EA.	1 EA.	Ductile Iron	Foundry
8" Plug	1 EA.	1 EA.	MJ Compact	Foundry
8" 1 1/2 Bend	1 EA.	1 EA.	Compact	Foundry
Roadway Box	2 EA.	2 EA.	Slide Type	Bingham & Taylor

NAME OF UTILITY CONTRACTOR:

Sediment control measures for this contract will be implemented in accordance with Section 219 of the specifications and as shown on SDP-98-106

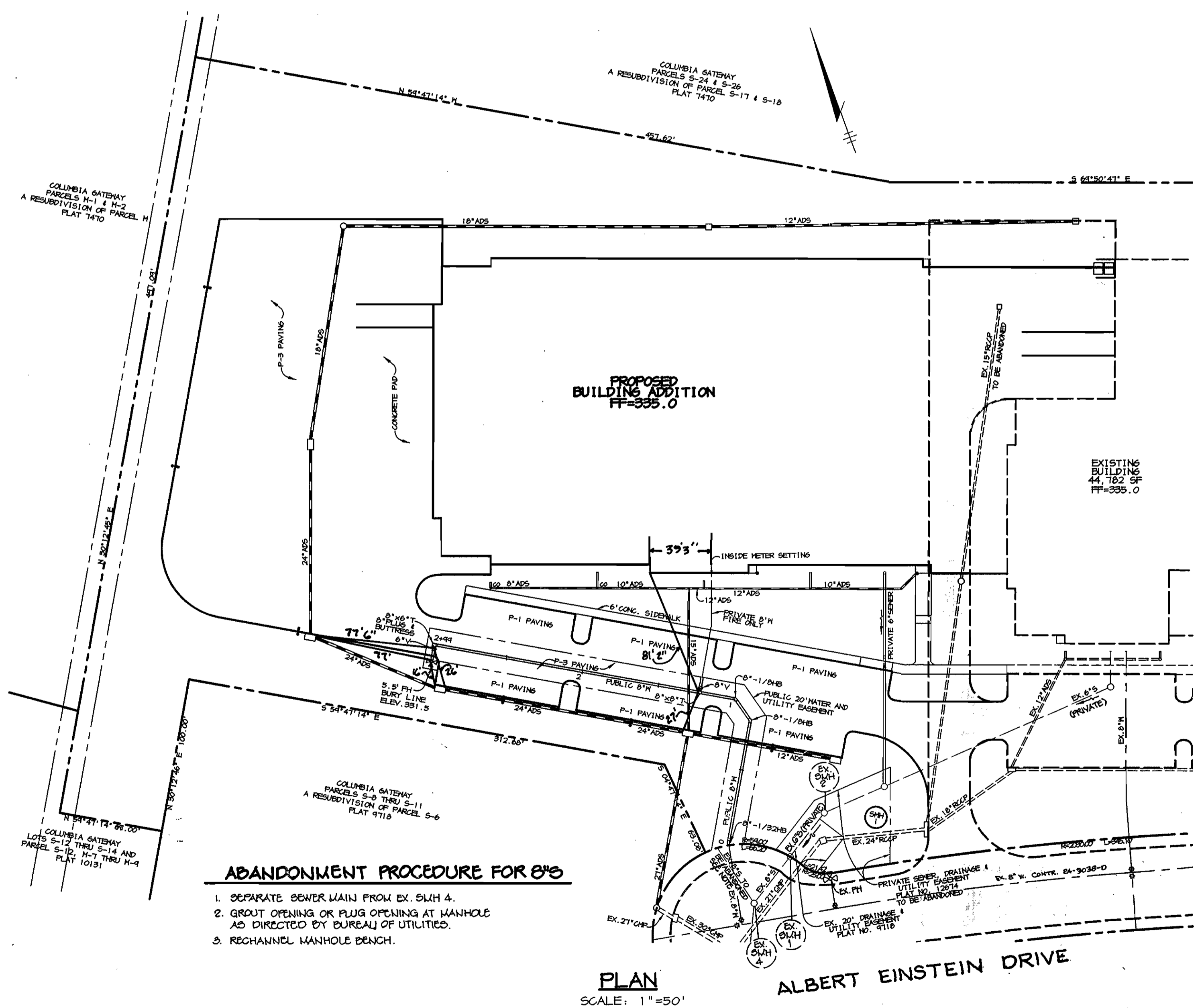
Review for Howard Soil Conservation District and meets technical requirements.

*Chad Simms* /s/ 3/27/98  
 NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*Jeffery Selig* /s/ 3/27/98  
 HOWARD SOIL CONSERVATION DISTRICT DATE

\* NOTE:  
 WORK & PERMIT IS NOT TO BE COMMENCED UNTIL PERMIT FOR SDP-98-102 IS ACTIVE - 03/31/98



**ABANDONMENT PROCEDURE FOR 8" W**

- SEPARATE SEWER MAIN FROM EX. 6" W.
- GROUT OPENING OR PLUG OPENING AT MANHOLE AS DIRECTED BY BUREAU OF UTILITIES.
- RECHANNEL MANHOLE BENCH.

**PLAN**  
 SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Phyllis Berman</i> /s/ 3-26-98 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>Barbara Dammann</i> /s/ 3/30/98 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	<b>RIEMER MUEGGE &amp; ASSOCIATES, INC.</b> ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410.997.8900 fax 410.997.9282 FILE: 98047/WS1.DWG 	DES: BLW DRN: DAM CHK: CJR DATE: 3-26-98 BY NO. REVISION DATE: 600' SCALE MAP NO. 43 BLOCK NO. 7	<b>COLUMBIA GATEWAY PARCEL 9-27</b> <b>MIKE'S TRAIN HOUSE</b> BUILDING ADDITION 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 44 3681-D SCALE AS SHOWN SHEET 1 OF 1
---	--	--	--	---