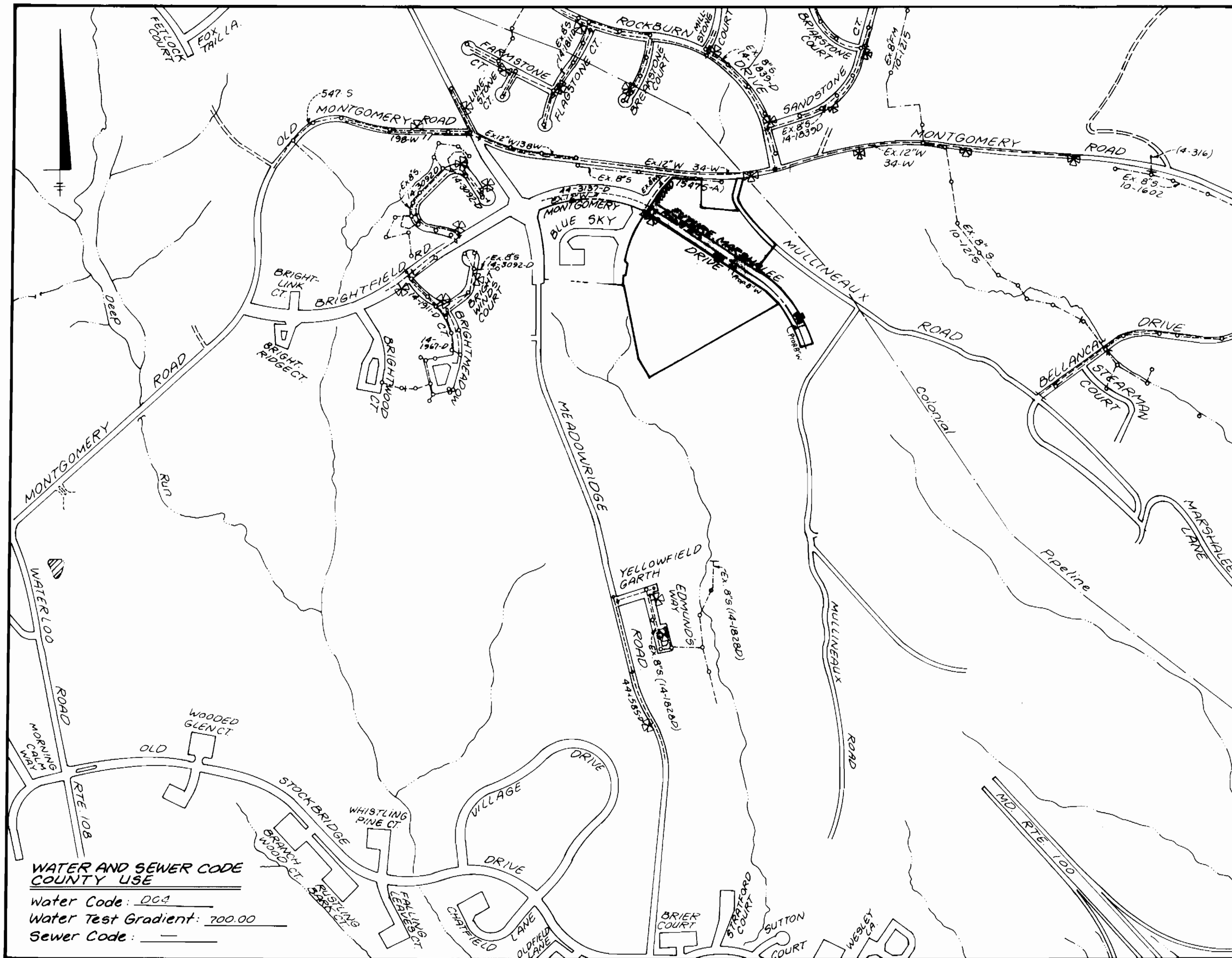


BENCH MARKS:

No. 1 Elev. 411.93
Top of F.H. at 325' North of Intersection
of MD Route 103 and Brightfield Road.
No. 2 Elev. 401.07
Top of F.H. N. Side of Old Montgomery Rd.
1350' West of BM No. 1



WATER AND SEWER CODE COUNTY USE
Water Code: DCC
Water Test Gradient: 200.00
Sewer Code:

Type of Buildings:	SFA
Number of Lots/Parcels:	1
Number of W.H.C.'S:	0
Number of B.H.C.'S:	0
Drainage Area:	Patapasco
Treatment Plant:	Patapasco WWTP

Scale: 1" = 600'

CONTRACT NUMBER 44-3330-D
SHADY OAKS
SECTION ONE AREA TWO
LOT 57 AND PARCEL A

GENERAL NOTES:

- PART I:**
- 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 damages 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 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 \odot 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:

a) State Highway Administration: 531-5533	d) Mass Utility: 1-800-257-7777
b) Baltimore Gas & Electric Co.: 850-4020	e) Colonial Pipeline Company: 795-1330
(Contractor Services)	f) Howard County Dept. of Public Works
c) Baltimore Gas & Electric Co.: 787-3068	Bureau of Utilities: 313-9900

 (Underground damage contract)
 - Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs 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.
- PART II: WATER**
- 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 the face shall be strapped to the face.
 - 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 the 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 far inside meter setting unless otherwise noted on plans or in specifications.

QUANTITIES				
AS BUILT				
ITEM	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
12" Water D.I.P.	1485 LF	1445 LF	CL 52	GRIFFIN PIPE
8" Water D.I.P.	109 LF	109 LF	CL 52	GRIFFIN PIPE
6" Water D.I.P.	54 LF	52 LF	CL 52	GRIFFIN PIPE
Fire Hydrant	2	2 EA		MUELLER CO.
12" x 8" Tee	1	1 EA	DIP	GRIFFIN PIPE
12" x 6" F.H. Tee	2	2 EA	DIP	GRIFFIN PIPE
12" Valve	1	1 EA	GATE VALVE	MUELLER CO.
8" Valve	3	3 EA	GATE VALVE	MUELLER CO.
6" Valve	3	2 EA	GATE VALVE	MUELLER CO.
12" x 8" Cross	1	1 EA	DIP	GRIFFIN PIPE
12" Cap	1	1 EA	DIP	GRIFFIN PIPE
8" Cap	3	3 EA	DIP	GRIFFIN PIPE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Patricia Engler 7/14/94
Signature DATE
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
John R. Belcher 7/14/94
Signature DATE
HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATION AND FINAL ROAD CONSTRUCTION PLANS: F-94-28

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MD.
James J. Flinn 7/15/94
DIRECTOR OF PUBLIC WORKS DATE
Robert J. Sauer 7/15/94
CHIEF BUREAU OF UTILITIES DATE
CHIEF LAND DEVELOPMENT DIVISION

LAND DESIGN ENGINEERING, INC.
8835-N COLUMBIA 100 PARKWAY
COLUMBIA, MARYLAND 21045
(410) 718-1070
John W. [Signature] 7/15/94
DATE

Designed TO/WI			
Drawn WJ			
Checked RM			
Date 2-24-94	By No.	REVISION	Date
	88	△ ROD 38LF 12" MAIN	2/12/94

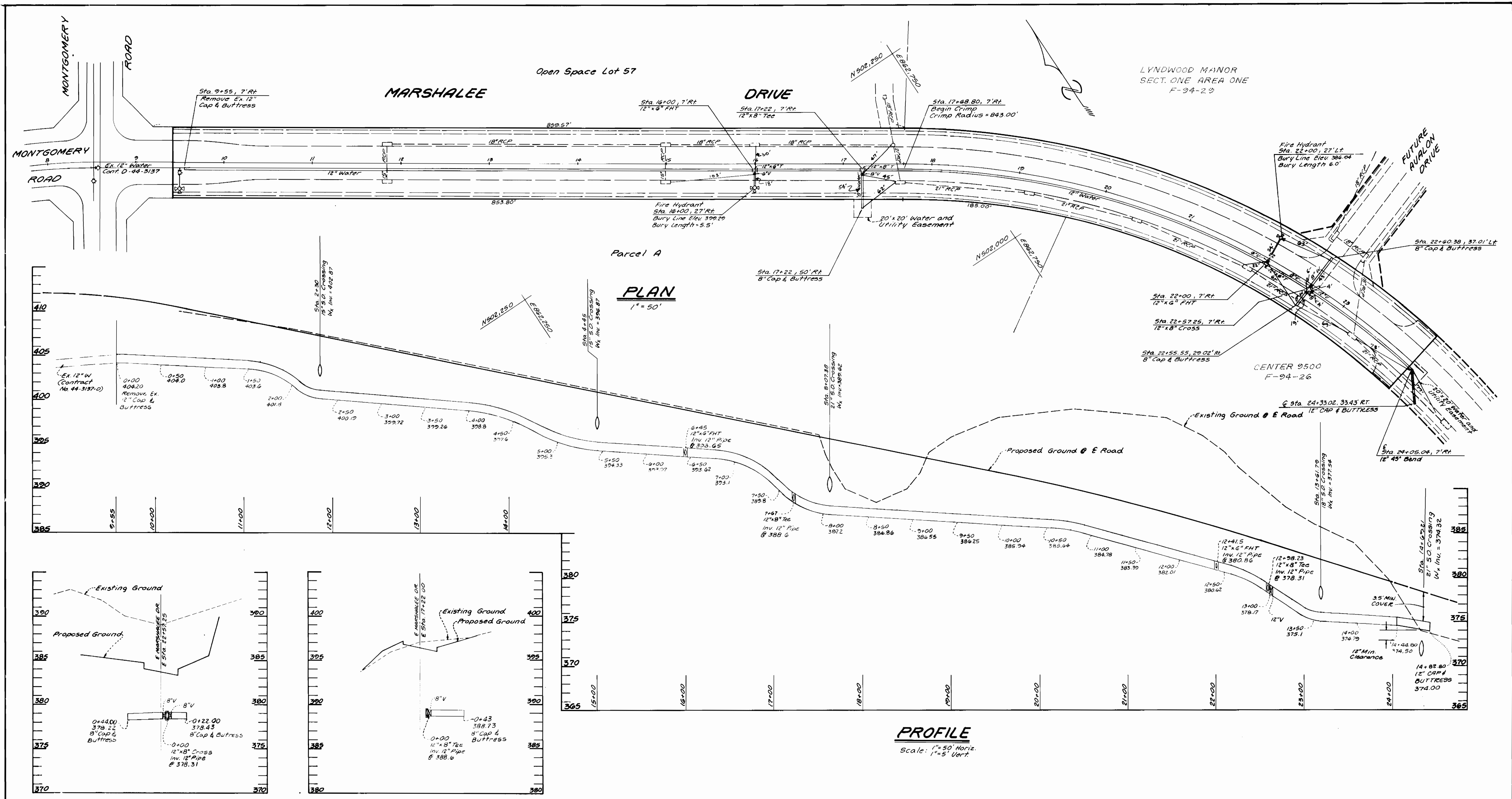
TITLE SHEET
600 SCALE MAP No. 37 BLOCK No. 4

SHADY OAKS
SECTION ONE AREA TWO
LOT 57 AND PARCEL A
1st Election District Howard County, Maryland
Contract No. 44-3330-D
SCALE AS SHOWN
SHEET 1 of 2

3330 WS/1 SHADY OAKS 1/2

AS-BUILT 11-21-95

3330 ws/2 SHADY OAKS 1/2



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Patricia Engle 7/14/94
 Signature Date
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
John R. Robertson 7/14/94
 Signature Date
 HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATION AND FINAL ROAD CONSTRUCTION PLANS: F-94-28

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MD.
James J. Shaw 7/15/94
 Director of Public Works Date
Robert M. Deussen 7-12-94
 Chief - Bureau of Utilities Date

LAND DESIGN ENGINEERING, INC.
 8835 Columbia 100 Parkway
 Suite N
 Columbia, Maryland 21045
 Phone: (410) 715-1070 (301) 596-3424

Designed	TJ/WJ	
Drawn	WJ	
Checked	RM	
Date	2-28-94	
By	No.	

ADD 38LF 12" WATER MAIN	2/12/94
REVISION	Date

SHADY OAKS
 SECTION ONE AREA TWO
 LOT 57 AND PARCEL A
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 CONTRACT NO. 44-3330 D

SCALE AS SHOWN
 SHEET 2 OF 2