

GENERAL NOTES:

1. 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.
2. All horizontal controls are based on Maryland State Coordinates (North American Datum of 1983 (NAD '83)).
3. All vertical controls are based on U.S.G.S. data.
4. All pipe elevations shown are invert elevations.
5. 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.
6. 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.
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 located by the contractor two weeks in advance of construction operations at his own expense.
8. Contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:
State Highway Administration 410-531-5533
BGE Contractor Services 410-850-4620
DCSE Under Ground Damage Control 410-291-4601
Miss Utility 1-800-251-7177
Colonial Pipeline Co. 410-544-4120
Howard County Dept. of Public Works 410-313-4900
Bell Atlantic 1-800-446-5266
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 line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
11. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five (5) working days before any open cut of any county road or boring/jacking operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114

WATER

1. All water mains to be D.I.P. Class 52 unless otherwise noted.
2. Tops of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
3. Valves adjacent to tees shall be strapped to tees.
4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawing.
5. 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 the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
6. The contractor shall not operate any water main valves on the existing water system.
7. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.

SEWER

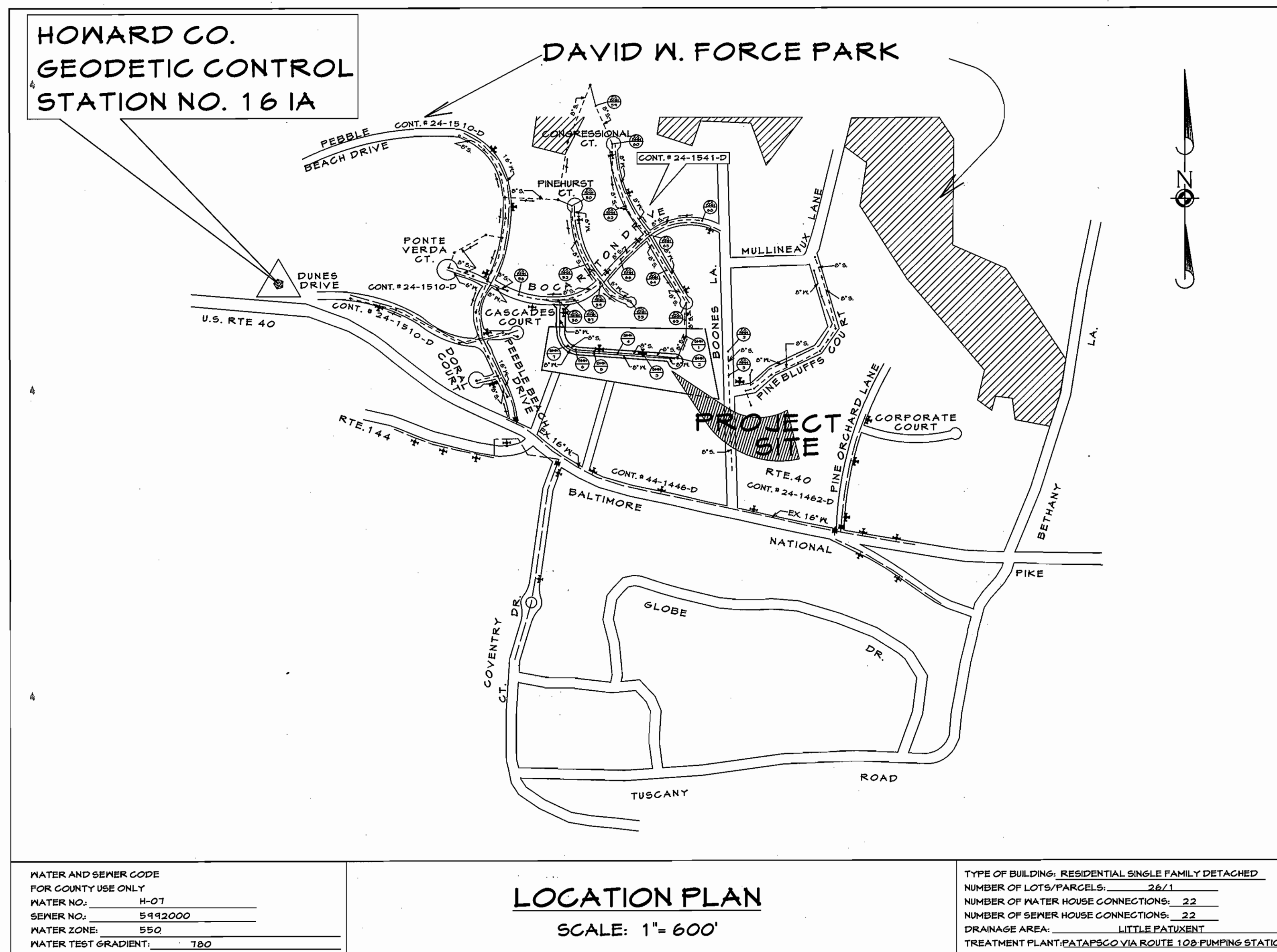
1. All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
2. All manholes shall be 4'-0" inside diameter unless otherwise noted.
3. Force mains shall be D.I.P. only.
4. Manholes shown with 12" and 16" walls are for brick manholes only.
5. Manholes designated M.T. in plan and profile shall have watertight frame and covers, Standard Detail S.5.2. Where watertight frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted on the drawings.
6. Houses with the symbol "C.N.S." indicates that cellar cannot be served.

BENCHMARK INFORMATION

- B.M.#1 REBAR & CAP #6
N 589049.7820 E 134843.245
EL. = 488.21
- B.M.#2 REBAR & CAP #8
N 589211.5754, E 1349364.4132
EL. = 452.54

WATER AND SEWER CONSTRUCTION PLANS CONTRACT NO. 24-3847-D CARLEE MANOR

LOTS 1 THRU 26 AND NON-BUILDABLE PARCEL 'A' ZONED R-20 TAX MAP NO. 17 PARCEL NO. 123 2ND ELECTION DISTRICT * HOWARD COUNTY, MD.



WATER AND SEWER CODE FOR COUNTY USE ONLY	
MATER NO.:	H-01
SEWER NO.:	5912000
MATER ZONE:	550
MATER TEST GRADIENT:	780

LOCATION PLAN
SCALE: 1" = 600'

TYPE OF BUILDING: RESIDENTIAL SINGLE FAMILY DETACHED	
NUMBER OF LOTS/PARCELS:	26/1
NUMBER OF WATER HOUSE CONNECTIONS:	22
NUMBER OF SEWER HOUSE CONNECTIONS:	22
DRAINAGE AREA:	LITTLE PATENT
TREATMENT PLANT:	FATAPSCG VIA ROUTE 108 PUMPING STATION

QUANTITIES

ITEM	QUANTITIES EST'D.	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER/MANUFACTURER
8" S (PVC)	1291 L.F.			
4" MANHOLE	7 EA			
4" SHC	464 L.F.			
DROP SHC TYPE "A"	17 EA			
8" W	1115 L.F.			
6" W	81 L.F.			
4" W	85 L.F.			
1" WHC	546 L.F.			
8" V	1 EA			
6" V	3 EA			
6" - FIRE HYDRANT	3 EA			
SLEEVE & SPACER	1 EA			

NAME OF UTILITY CONTRACTOR: _____

CHECKBOX:
AS-BUILT DATE: _____
SURVEY AND DRAFTING DIVISION

LIST OF DRAWINGS

1. TITLE SHEET
2. WATER AND SEWER MAINS PLAN
3. SEWER PROFILES
4. WATER PROFILE

OWNER

TRUST U/A CARLEE JONES
CARROLL COUNTY BANK
& TRUST CO., TRUSTEE
C/O CATHERINE WENZING, V.P.
P.O. BOX 1100
WESTMINSTER, MD 21158

DEVELOPER

C.J. PROPERTY, LLC
10753 BIRMINGHAM WAY
WOODSTOCK, MD. 21163
(410) 750-1200

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 1/16/03
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 1/16/03
ALFRED L. HANSARD, PROFESSIONAL ENGINEER REG. NO. 23446 DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

[Signature] 2/26/03
DATE

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

[Signature] 2/26/03
DATE

SITE DEVELOPMENT PLAN NO. F-02-91 SUBDIVISION FINAL PLAT NO. F-02-91

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 2.14 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND UNDER CONTRACT # _____

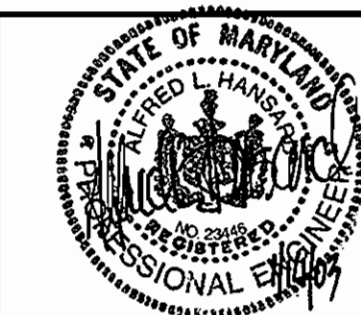
[Signature] 1/16/03
SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND



Carroll Land Services
1000 P.O. #1169
Engineers - Surveyors - Land Development Consultants
LANDSCAPE ARCHITECTS - ENVIRONMENTAL SPECIALISTS
129 East Main Street Westminister, MD 21157-3329
(410) 876-8017 FAX (410) 876-0009



Designed By:	AR/AJD	
Drawn By:	BM/PT	
Checked By:		
Date:	JAN, 2003	
DATE	REVISION	BY

**WATER AND SEWER MAINS
TITLE SHEET**

600' SCALE MAP NO. 16 & 17 BLOCK NO. 24 & 19

CARLEE MANOR

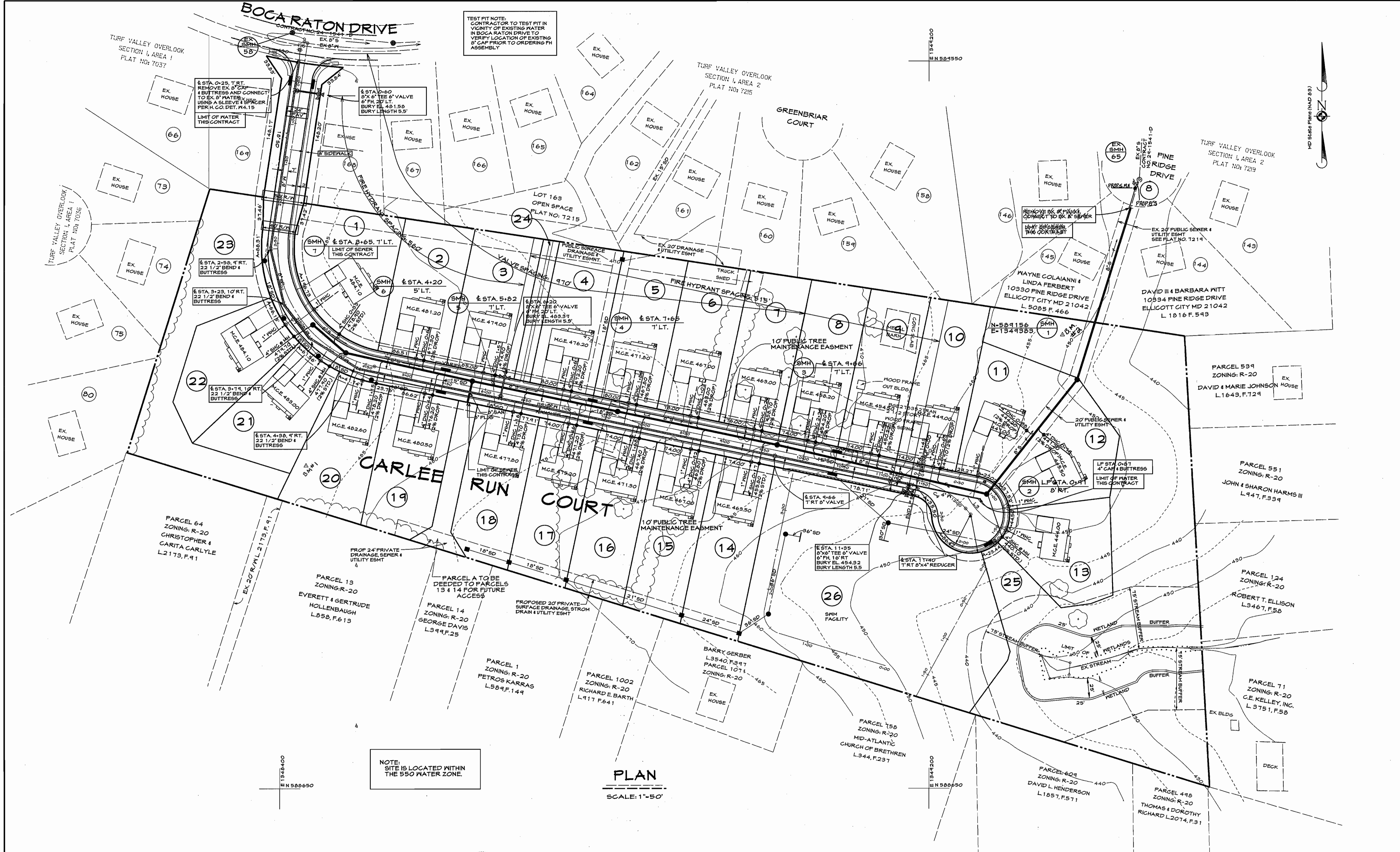
LOTS 1 THROUGH 26 AND
NON-BUILDABLE PARCEL "A"
CONTRACT NO. 24-3847-D
TAX MAP 17, PARCEL 123

2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

Scale:
AS SHOWN
Sheet:
1 OF 4
Job No.: 97230A

CAD Drawing File Name: g:\971\97230\dwg\const\mws\TITLE.dwg

CAD Drawing File Name: g:\17\171230\dwr\const\m45\m45plan.dgn



PLAN
SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

R. J. B... 2-14-03
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

... 3/4/03
DATE

CLSI
Carroll Land Services
Engineers - Surveyors - Land Development Consultants
Landscape Architects - Environmental Specialists
231 East Main Street Westminster, MD 21157-3533
(410) 876-8017 FAX (410) 876-0009



Designed By: AR/AJD				
Drawn By: BM/PT				
Checked By:				
Date: JAN, 2003	DATE	REVISION	BY	

**WATER AND SEWER MAINS
PLAN VIEW**

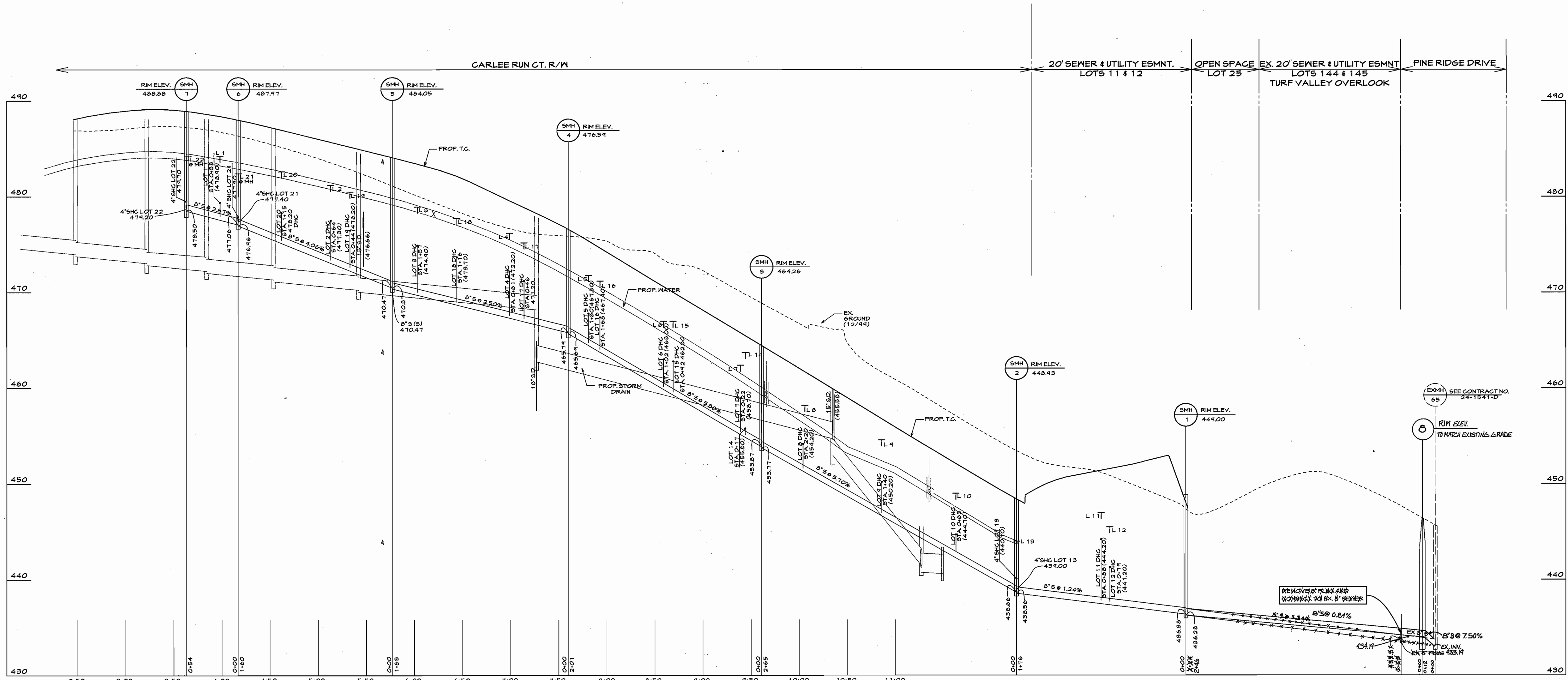
600' SCALE MAP No. 18117 BLOCK No. 24119

CARLEE MANOR
LOTS 1 THROUGH 26 AND
NON-BUILDABLE PARCEL 'A'
CONTRACT NO. 24-3847-D
TAX MAP 17, PARCEL 123
2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
COUNTY FILE NO.

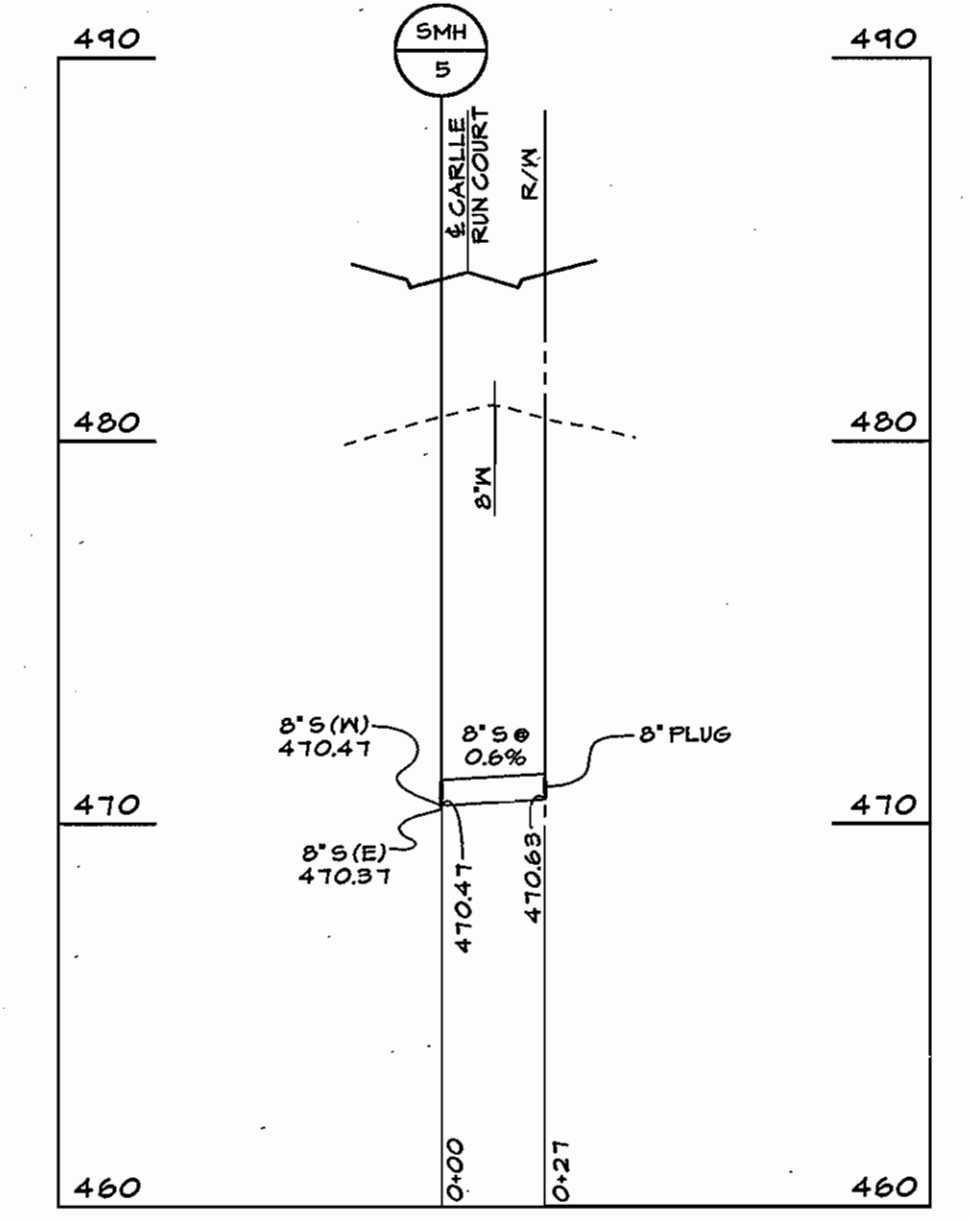
Scale:
AS SHOWN

Sheet:
2 OF 4

Job No.: 91230A



PROFILE
 SCALE: VERTICAL: 1" = 5'
 HORIZONTAL: 1" = 50'



LEGEND

- MINIMUM CELLAR ELEVATION (M.C.E.) (PICTORIAL) SEE PLAN VIEW FOR ELEVATION
 - DROP HOUSE CONNECTION
 - LOT #
 - INVERT OF SHC @ R/W OR EASEMENT LINE
 - STATION FROM DOWNSTREAM MANHOLE
 - INVERT OF SHC @ R/W OR EASEMENT LINE
 - INVERT @ CONNECTION TO SEWER MAIN (PICTORIAL)
- * THIS INFORMATION MAY BE DISPLAYED ABOVE OR BELOW PICTORIAL INVERT (I)

CAD Drawing File Name: g:\17\171230\dwg\const\M45\sewerprco.dwg

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert M. Beaman 2-14-03
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 3/4/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CLSI
 Carroll Land Services
 Engineers - Surveyors - Land Development Consultants
 Landscape Architects - Environmental Specialists
 229 Star Map Street Washington, MD 21157-3533
 (410) 876-8017 FAX (410) 876-0009

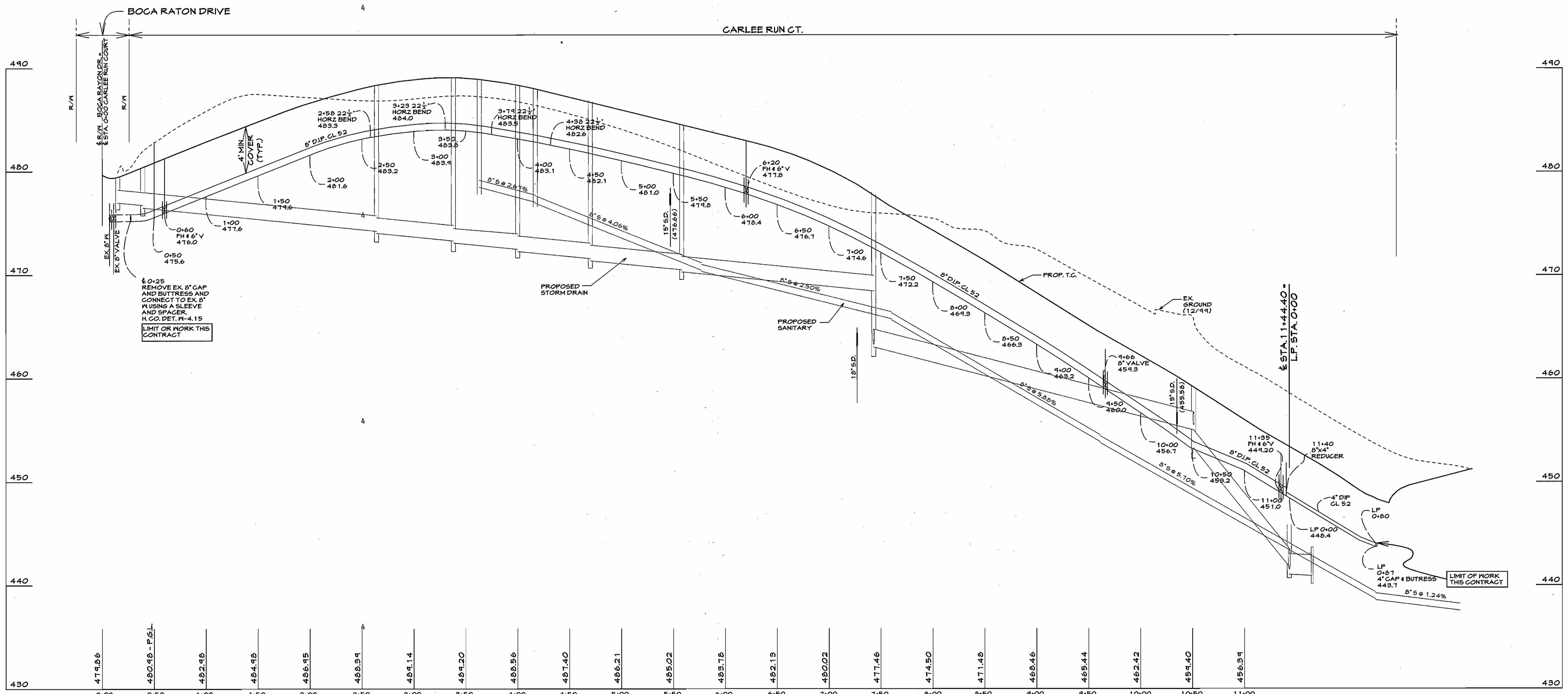


Designed By:	AR/AJD
Drawn By:	BM/PT
Checked By:	
Date:	12/12/05
DATE	AS-BUILT DATA ADDED
REVISION	
BY	KZJ

**WATER AND SEWER MAINS
 SEWER PROFILES**
 600' SCALE MAP No. 18417 BLOCK No. 24419

CARLEE MANOR
 LOTS 1 THROUGH 26 AND
 NON-BUILDABLE PARCEL 'A'
 CONTRACT NO 24-3041-D
 TAX MAP 17, PARCEL 123
 2 nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 COUNTY FILE NO.

Scale:
 AS SHOWN
 Sheet:
 3 OF 4
 Job No: 97230A



PROFILE
 SCALE: VERTICAL: 1" = 5'
 HORIZONTAL: 1" = 50'

WATER AS-BUILT DATA

LOT	FROM	TO	DIST
1	WHC	SMH 6	18.0
2	"	SMH 7	18.4
3	"	I 6	51.5
4	"	SMH 5	41.5
5	"	"	24
6	"	FH	22
7	"	I 5	41
8	"	I 4	49.5
9	"	SMH 4	11.6
10	"	SMH 3	10.9
11	"	SMH 4	91.4
12	"	SMH 3	36.9
13	"	I 2	10.9
14	"	SMH 3	88.6
15	"	I 2	82.6
16	"	FH	67.9
17	"	I 2	82.8
18	"	"	74
19	"	FH	44.7
20	"	SMH 2	23.6
21	"	FH	81.7
22	"	I 1	67
23	"	WHC 13	55
24	"	SMH 2	83
25	"	I 1	20.1
26	"	SMH 2	21.5
27	"	"	18.5
28	"	SMH 4	24.1
29	"	I 5	6.9
30	"	I 4	40.3
31	"	FH	7.7
32	"	SMH 3	26.7
33	"	"	52
34	"	I 6	22
35	"	SMH 6	37.6
36	"	SMH 7	82.3
37	"	"	23
38	"	FH	10.8
39	"	FH	26.6
40	"	I 7	23

SEWER AS-BUILT DATA

LOT	FROM	TO	DIST
1	SHC	SMH 6	27.0
2	"	SMH 7	31.5
3	"	I 6	44.1
4	"	SMH 5	32
5	"	"	25.3
6	"	FH	13.1
7	"	I 5	30.0
8	"	SMH 4	1.4
9	"	"	25
10	"	I 5	53.3
11	"	SMH 4	99.4
12	"	SMH 3	122.5
13	"	"	25.3
14	"	I 2	121.5
15	"	"	47.6
16	"	I 2	59.4
17	"	FH	57.3
18	"	"	41.5
19	"	SMH 2	1.9
20	"	SMH	82.1
21	"	"	82.9
22	"	"	80.7
23	"	SHC 11	29.3
24	"	SMH 2	15
25	"	"	21.2
26	"	I 1	23.5
27	"	I 2	21
28	"	SMH 3	32.2
29	"	"	36.2
30	"	SMH 4	12
31	"	"	43.1
32	"	I 5	7.4
33	"	"	36
34	"	SMH 4	53.3
35	"	FH	49.2
36	"	SMH 5	32.5
37	"	I 6	36.7
38	"	I 6	55
39	"	SHC	16.6
40	"	I 6	72.0

WATER AS-BUILT DATA

LOT	FROM	TO	DIST
20	SHC	SMH 6	50
21	"	"	32.2
22	"	SMH 7	82.2
23	"	"	23
24	"	SMH 6	72.5

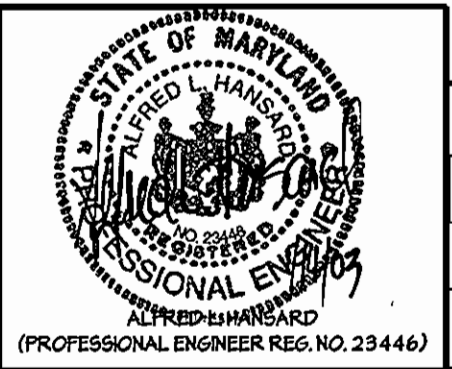
NOTE: ALL MEASUREMENTS FROM FH'S & STRUCTURES ARE TAKEN FROM CENTER POINT OF M.H. COVER AND TOP OF FH.

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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 R. H. Berman 2-14-03
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
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 [Signature] 2/14/03
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Designed By: AR/AJD
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**WATER AND SEWER MAINS
 WATER PROFILES**
 600 SCALE MAP No. 18417 BLOCK No. 24419

CARLEE MANOR
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