

BENCH MARKS

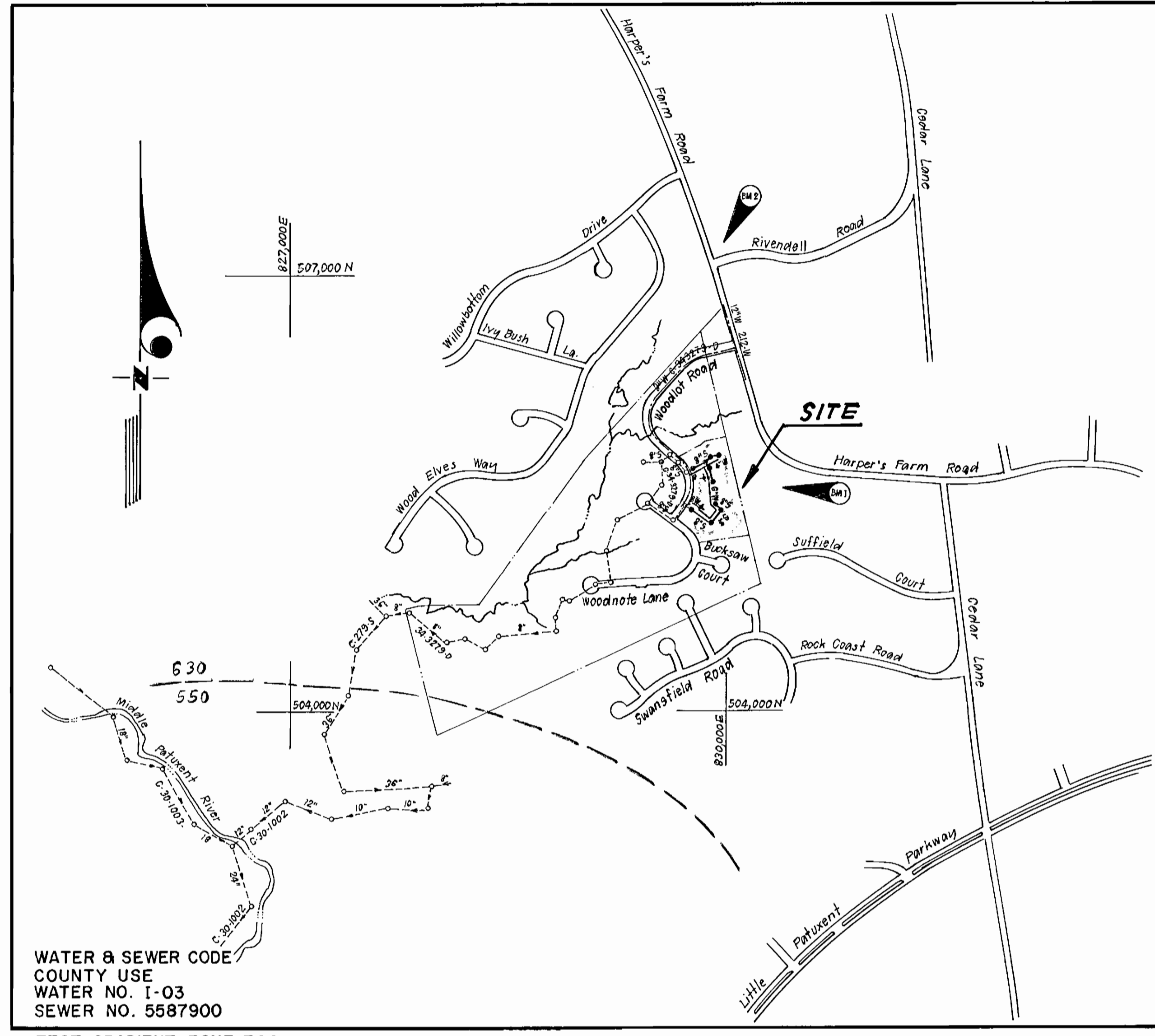
NO. 1
HOWARD COUNTY MONUMENT NO. 2739002
ELEV. 472.20
N 505654.515
E 830372.788

NO. 2
HOWARD COUNTY MONUMENT NO. 2739003
ELEV. 465.10
N 507944.385
E 829697.643

TYPE OF BUILDING <u>RESIDENTIAL TOWNHOUSES</u>	
NO. OF LOTS	<u>32</u>
NO. OF WHC's	<u>32</u>
NO. OF SHC's	<u>32</u>
DRAINAGE AREA <u>MIDDLE PATUXENT</u>	
TREATMENT PLANT: <u>LITTLE PATUXENT W.W.T.P.</u>	

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 Inspector, at the contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. Datum.
- 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. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications and Howard County Design Manual, Volume IV, 1989 Amendments. The Contractor shall have copy of same on the job site.
- Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
- Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.
 - State Highway Administration - 531-5533
 - Baltimore Gas & Electric Company - Underground Damage Control - 787-9068
 - Baltimore Gas & Electric Company - Contractor Services - 850-4620
 - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
 - "Miss Utility" - 1-800-257-7777
 - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
 - Bureau of Utilities Howard County - 313-4900
 - Colonial Pipeline Company - 795-1390
- Trees are to be protected from damage to maximum extent. Trees 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 as directed by the Inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
- Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Top 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.
- Block all fittings with concrete.
- Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Std. Det. W.I.I. & W2.II. Soil around the fire hydrant to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C., or D.I.P. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
- Manholes designated thus: WT, shall have a Watertight Frame and Cover.
- All WHC's shall be a minimum 1-inch connection with 3/4" Meter for single connections. Twin connections shall be 1/2" connection with 1" outlets.



WATER & SEWER CODE
COUNTY USE
WATER NO. I-03
SEWER NO. 5587900

TEST GRADIENT: ZONE 780

VICINITY MAP
SCALE: 1" = 600'

SEWER HOUSE CONNECTION TABLE

LOT NO.	INV. @ R.	MIN. CELLAR ELEV.	LOT NO.	INV. @ R.	MIN. CELLAR ELEV.
9	429.6	432.7	25	435.4	438.5
10	430.6	433.7	26	435.0	438.1
11	431.4	434.5	27	434.8	437.9
12	432.4	435.5	28	434.7	437.8
13	433.0	436.1	29	434.7	437.8
14	434.6	437.7	30	433.9	437.0
15	435.2	438.3	31	433.4	436.5
16	435.8	438.9	32	432.9	436.0
17	436.5	439.6	33	432.4	435.5
18	436.8	439.9	34	431.5	434.6
19	437.6	440.7	35	431.1	434.2
20	438.2	441.3	36	429.1	432.2
21	439.1	442.2	37	428.5	431.6
22	439.8	442.9	38	426.8	429.9
23	440.3	443.4	39	426.1	429.2
24	435.5	438.6	40	424.5	427.6

CONTRACT NO.34-3316 - D
WOODLOT
SECTION 1, LOTS 9 THRU 40
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Site Development Plan SDP 94-042; Drawing Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
SIGNATURE: *J. A. Warkentin* DATE: 12/1/93

U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED: *John K. Roberts* DATE: 12/1/93
Howard S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James P. Lewis 12/3/93 DIRECTOR OF PUBLIC WORKS DATE
Paul D. DeLeon 12/3/93 CHIEF, BUREAU OF ENGINEERING DATE
Robert M. Swain 1/22/93 CHIEF, BUREAU OF UTILITIES DATE
John J. ... 1/19/93 CHIEF, LAND DEVELOPMENT DIV. DATE

CFS CLARK, FINEPROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS
7135 MINSTREL WAY COLUMBIA MARYLAND 21045
(410) 381-7500 BALTO. (301) 621-8100 WASH.

STATE OF MARYLAND
G. NELSON CLARK
REGISTERED PROFESSIONAL ENGINEER
12-18-93

DES: J.T.R.			
DRN: J.T.R.			
CHK: C.C.M.			
DATE: OCT. 93	BY NO.	REVISION	DATE

600' SCALE MAP NO. <u>29</u>	BLOCK NO. <u>22</u>
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WOODLOT SECTION 1
LOTS 9 THRU 40
5TH ELECTION DISTRICT
CONTRACT NO. 34-3316 - D

TITLE SHEET

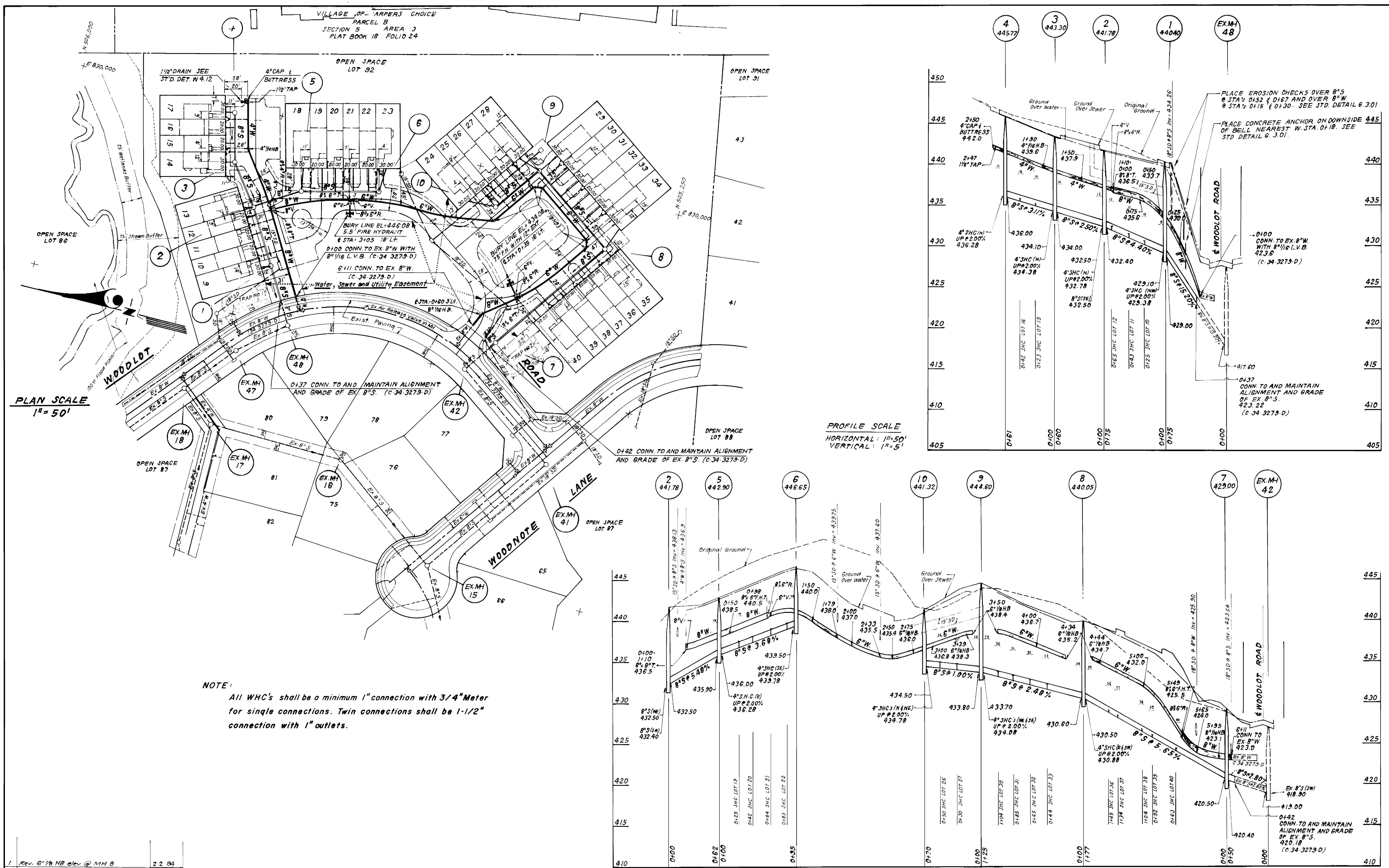
SCALE AS SHOWN
SHEET 1 OF 2

ITEM	QUANTITIES EST'D	QUANTITIES AS BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" SEWER	770 LF	891 LF.	PVC SDR-35	IM MANUFACTURING / BELAIR ROAD SUPPLY
4" SHC	670 LF	747.0 LF.	PVC SDR-35	IM MANUFACTURING / BELAIR ROAD SUPPLY
4" I.D. MANHOLE	10 EA	10 EA.	40" ID PRECAST	ATLANTIC CONCRETE PRODUCTS / SAME
8" WATER	270 LF	276 LF.	D.I.P. S.L.52	GRIFFIN PIPE PRODUCTS / SAME
6" WATER	451 LF	472.9 LF.	D.I.P. S.L.52	GRIFFIN PIPE PRODUCTS / SAME
4" WATER	140 LF	138 LF.	D.I.P. S.L.52	GRIFFIN PIPE PRODUCTS / SAME
1 1/2" WHC	430 LF	406 LF.	"K" COVER TUBING	HOWELL METALS / BELAIR ROAD SUPPLY
1" WHC	267 LF	262 LF.	"K" COVER TUBING	HOWELL METALS / BELAIR ROAD SUPPLY
FIRE HYDR.	2 EA	2 EA.	BRASS, STD.	MUELLER CO. / BELAIR ROAD SUPPLY
1 1/2" DRAIN	1 EA	1 EA.	BRASS STD.	MUELLER CO. / BELAIR ROAD SUPPLY
4" 6" & 8" V's	1 EA	1 EA. (8" & 4")	ROSLIENT	MUELLER CO. / BELAIR ROAD SUPPLY
8" VALVES	3 EA	3 EA.	SATE VALVE	MUELLER CO. / BELAIR ROAD SUPPLY

NAME OF UTILITY CONTRACTOR: COSSENTINO CONTRACTORS, INC.
SURVEY & DRAFTING DIV. - AS BUILT DATE

W/S 3316-D

W/15 3316 -D 2



1	Rev. 6" 1/8 HB elev @ MH 8	22 94
NS	REVISION	Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 12/3/93
DIRECTOR OF PUBLIC WORKS DATE

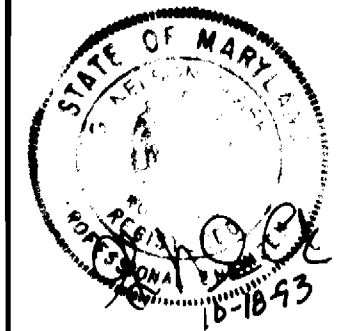
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CHIEF, BUREAU OF UTILITIES DATE

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DRN: J.T.R.	
CHK: C.C.M.	
DATE: OCT. 93	
BY	NO.
	REVISION
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PLAN & PROFILES OF
WATER & SEWER MAINS

600' SCALE MAP NO. 29 BLOCK NO. 22

WOODLOT
SECTION I
LOTS 9 THRU 40
5TH ELECTION DISTRICT
CONTRACT NO. 34-3316 -D

SCALE
AS SHOWN

SHEET
2 OF 2