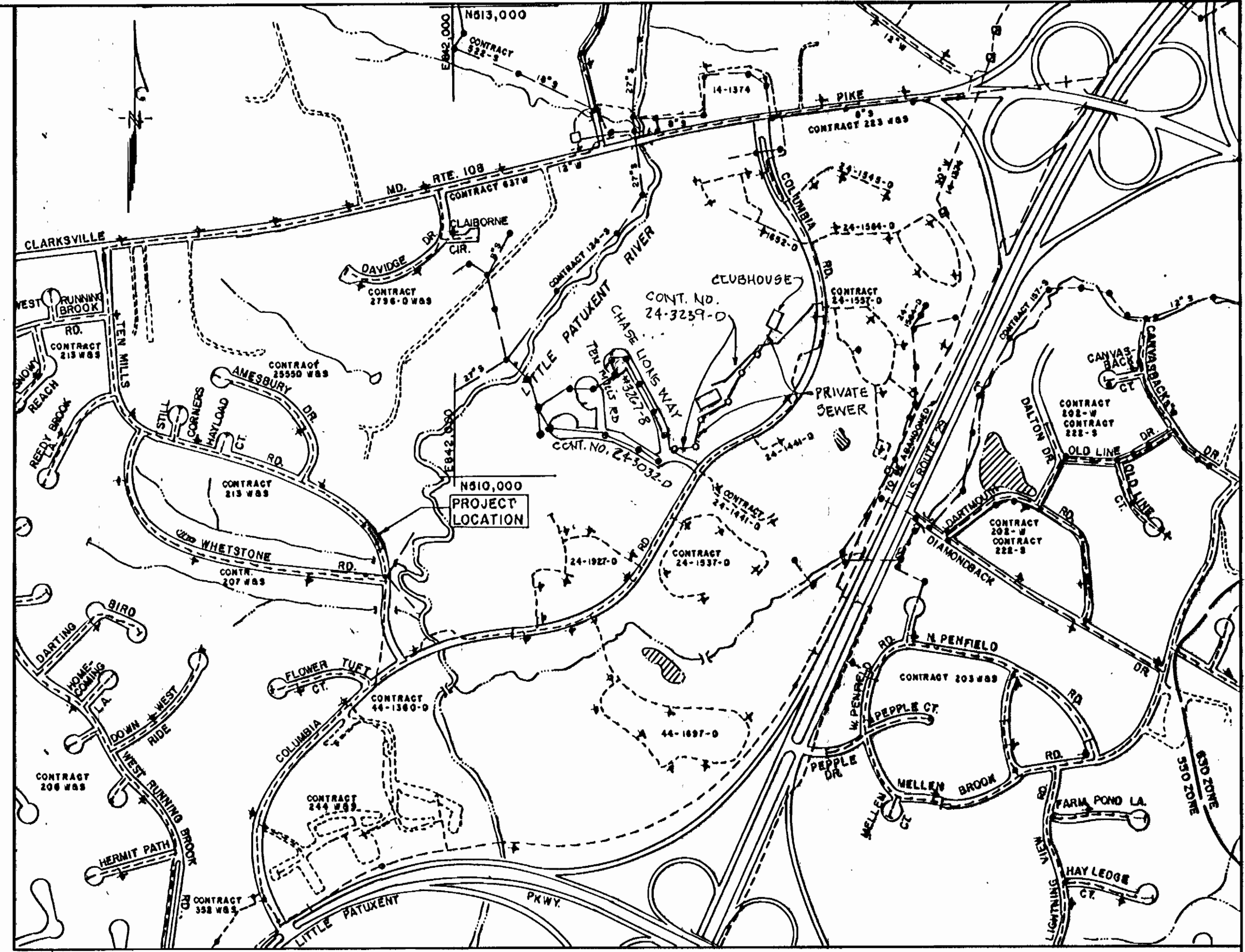


**GENERAL NOTES**

- PART I - (To be printed on both Water and Sewer Plans)**
1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and shall be held responsible for 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.C.S. data.
  4. All pipe elevations shown are invert elevations.
  5. Clear all utilities by a minimum of 4'. Clear all poles by 2' - 6" minimum of tunnels as required. The owner has contacted the utility companies and has made arrangements for bearing of poles as shown on the drawings. In the event the contractor's work requires the bearing of any additional poles, any work incurred by the owner for bearing of additional poles or damage shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bearing 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 'X' 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 and noted in advance of construction operations at his own expense.
  8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:
    - State Highway Administration 331-5533
    - MD State Police 443-4410
    - MD State Under Ground Damage Control 443-4410
    - Miss Utility 1-800-387-7111
    - Colonial Pipeline Co. 795-1350
    - Howard County Department of Public Works Bureau of Utilities 313-4500
  9. Trees and shrubs are to be protected from damage to main and trench. 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.
- PART II - WATER (To be printed on water plans only).**
1. All water mains to be O.I.P. Class 52 unless otherwise noted.
  2. Top of all water mains to have a minimum of 1-1/2' 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 drawings.
  5. 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 1009 and 1095 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.
  8. Minimum vertical clearance between overhead and other underground utilities is 1'00".
- PART III - SEWER (To be printed on sewer plans only)**
1. All sewer mains shall be O.I.P. MCP, VCP, CSP, MCCP and P.V.C. unless otherwise noted.
  2. The contractor shall provide a joint in all sewer mains within 3' - 6" of exterior manhole wall.
  3. All manholes shall be 4' - 6" inside diameter unless otherwise noted.
  4. Force mains shall be O.I.P. only.
  5. Manholes shown with 12" and 16" walls are for brick manholes only.
  6. Manholes designated V.T. in plan and profile shall have ventpipes frame and covers. Standard Detail 05-32, where ventpipes manhole frame and cover is used, set top of frame 1' - 6" above finished grade unless otherwise noted on the drawings.
  7. House(s) with the symbol "C.S." indicates that cellar cannot be served.

**BENCHMARKS**  
ELEVATION TAKEN FROM HOWARD COUNTY MONUMENT # 2741004 and MON # 2740001

BM # 1 - W-20, ELEV. 318.78	N509,289.80	E841,517.39
BM # 2 - W-21, ELEV. 318.93	N509,504.74	E841,555.67
BM # 3 - W-22, ELEV. 319.40	N509,681.01	E841,469.70



**LOCATION MAP**

Type of Building	N.A.
No. of Lots/Parcels	N.A.
No. of Water house connections	N.A.
No. of Sewer house connections	N.A.
Drainage area	N.A.
Treatment Plant	N.A.

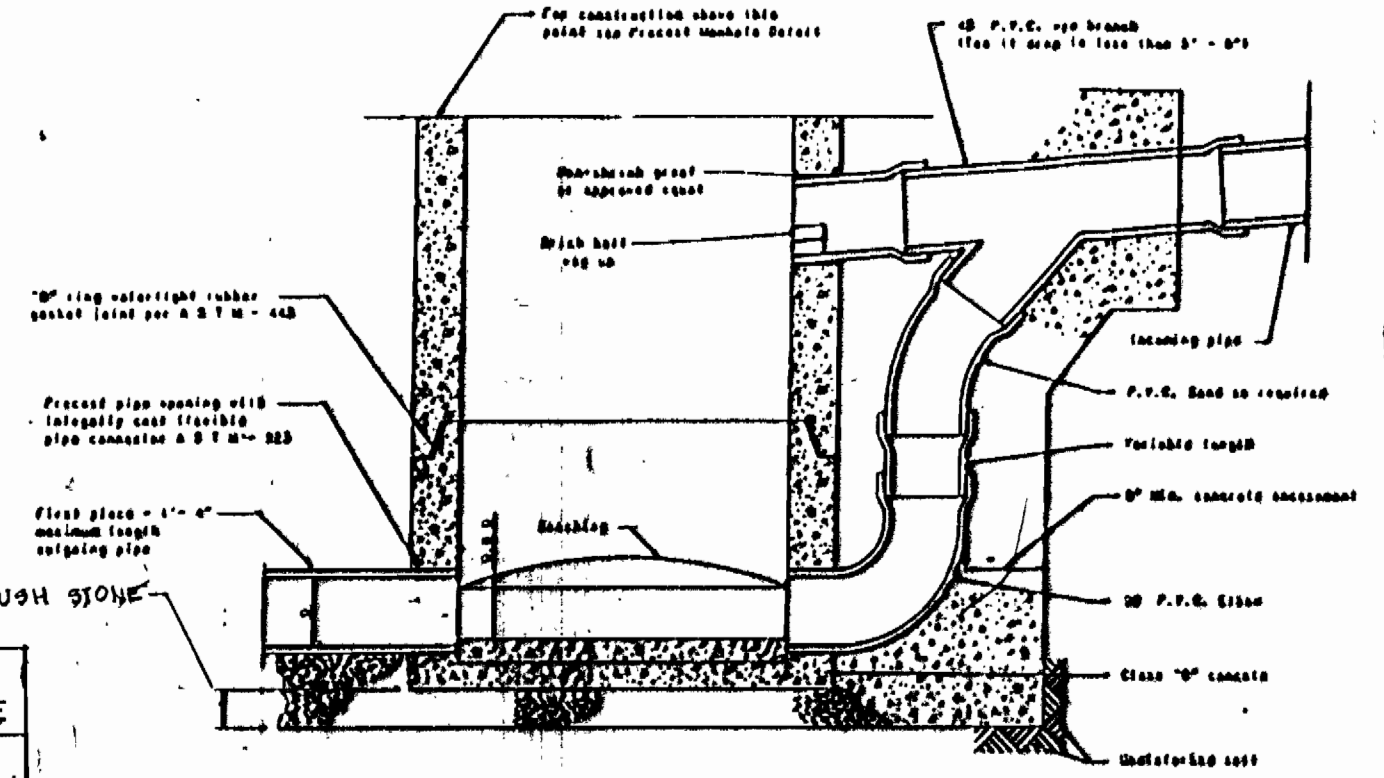
**SANITARY SEWER TABLE (TEN MILLS ROAD)**

MH	INV.	DEPTH	L.F.	DESCRIP.	SLOPE	MH	INV.	DEPTH	HOUSE CONN.
EXIST. 1	308.21	9.79'	35	8" D.I.P. CL. 52	0.8%	PROP. DROP 2	307.93	9.67'	0
PROP. DROP 2	302.78	14.82'	223	8" D.I.P. CL. 52	0.8%	EXIST. 3	301.00	14.50'	0

Total No. of Manholes: 2 Existing, 1 Proposed  
Total L.F. of Pipe: 258 L.F., 8" D.I.P.

**WATER TABLE**

DESCRIPTION	L.F.	45° BEND	VALVES	HYDRANT	HOUSE CONNECTION	REDUCER	TEE
8" D.I.P. CLASS 52	258	7	1	2	2	4	2



**QUANTITY BOX @ 0-LF COURSE**

DESCRIPTION	SUPPLIER	QTY
8" PVC	J.M. MANUFACTURING	212.87
MH	ATLANTIC CONC.	2
8" D.I.P. (W)	GRIFFIN PIPE	588.5
6" LIP (W)	"	34.5
FH	MUELLER CO	2
6" VALVES	"	2
8" 1/8 BEND	GRIFFIN PIPE	3

**QUANTITIES BOX @ TEN MILLS ROAD**

DESCRIPTION	QTY.	AS BUILT	SUPPLIER
8" D.I.P. CL. 52 (SEWER)	188 L.F.	261.5	GRIFFIN PIPE
8" D.I.P. CL. 52 (WATER)	8.0 L.F.	66	"
TYPE A DROP MANHOLE	1	1	ATLANTIC CONCRETE
8" - 1/8 VB	4	4	GRIFFIN

CONTRACTOR: W.F. WILSON  
SUB-CONTRACTOR: FALLSTON

**SANITARY SEWER TABLE (CHASE LIONS WAY)**

MH	INV.	DEPTH	L.F.	DESCRIP.	SLOPE	MH	INV.	DEPTH	HOUSE CONN.
8	354.57	10.43'	175	8" D.I.P. CL. 52	100%	9	352.82	6.18'	PRIV. SEWER CONN.
9	352.72	6.28'	55	8" D.I.P. CL. 52	100%	EX. 20	352.17	8' ±	0

TOTAL NO. OF MANHOLES: 1 EXISTING, 2 PROPOSED  
TOTAL L.F. OF PIPE: 230 L.F., 8" D.I.P.

SDP 92-104

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

APPROVED: *[Signature]* 2/1/93  
HOWARD S.C.D. DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

APPROVED: *[Signature]* 2/3/93  
S.O. SOIL CONSERVATION SERVICE DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHIEF BUREAU OF ENGINEERING: \_\_\_\_\_ DATE: \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 2/4/93  
DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 2/4/93  
CHIEF, BUREAU OF ENGINEERING DATE

*[Signature]* 1-25-93  
CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 2/3/93  
CHIEF, LAND DEVELOPMENT DIV. DATE

**RBA** ENGINEERS-ARCHITECTS-PLANNERS

3560 STERRETT PLACE, SUITE 300,  
COLUMBIA, MD 21044 (301) 730-7250

DES:			
DRN:			
CHK:	JWC	1	ADDED WATERMAIN AT CLUBHOUSE AND EXTENDED SEWER LINE TO PROPERTY
DATE:			6/94
BY NO.			
REVISION			
DATE			

PLAN AND PROFILE OF SEWER MAIN  
CONTRACT NO. 24-3239-D

600' SCALE MAP NO. 30 BLOCK NO. 14

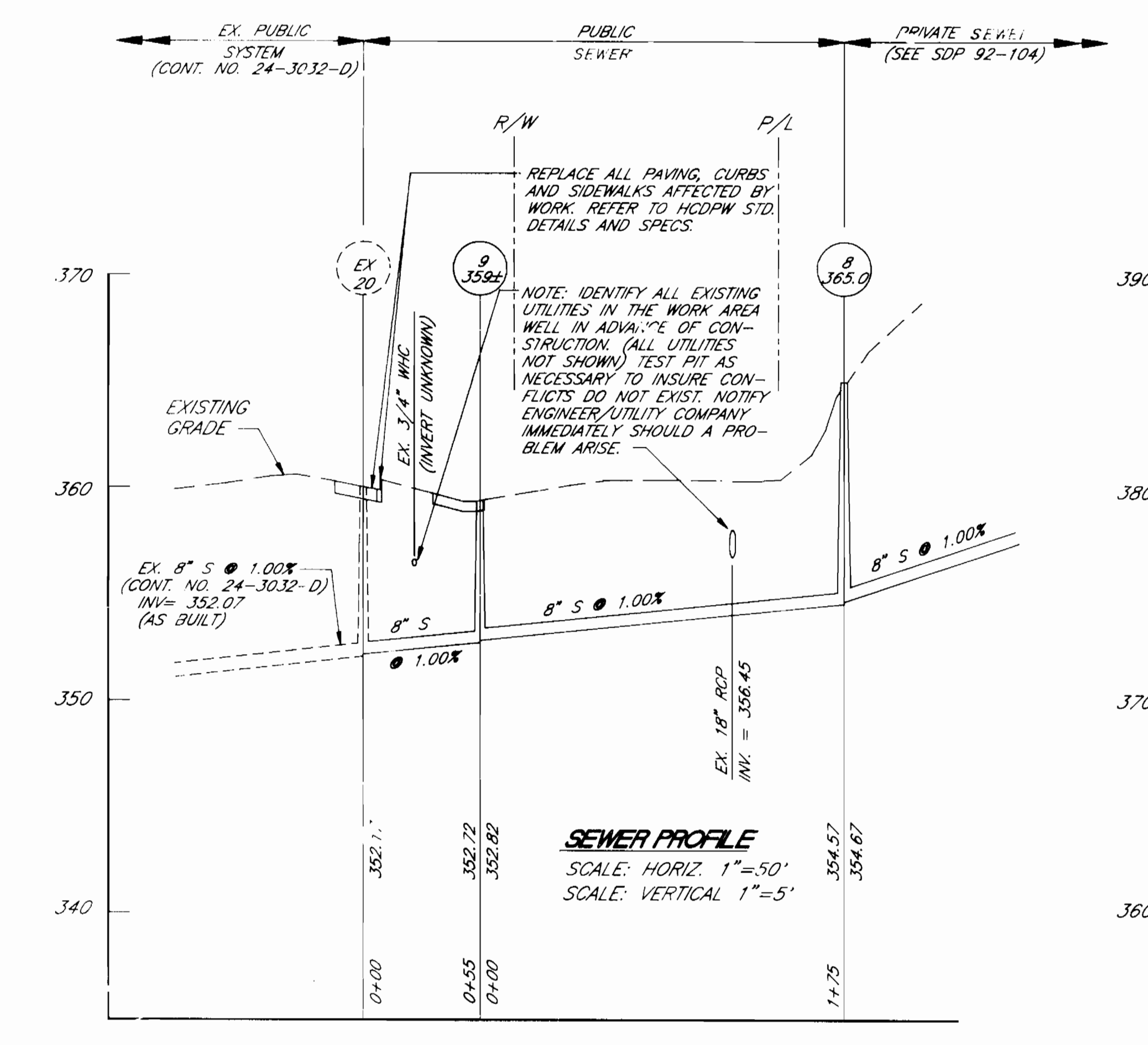
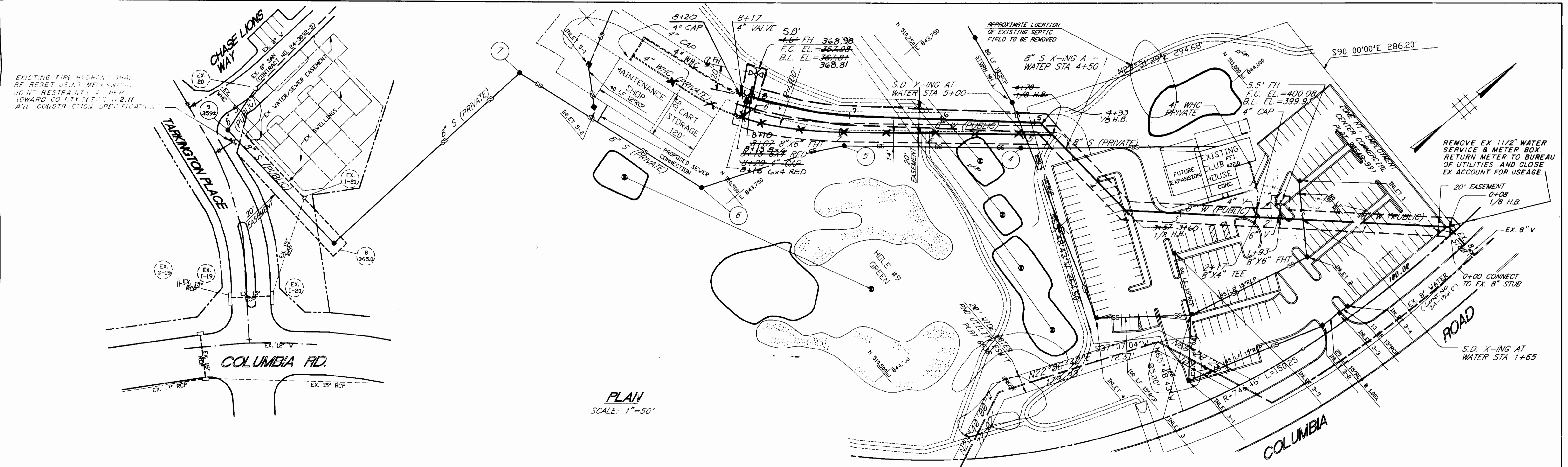
TEN MILLS ROAD WATER & SEWER RELOCATION  
VILLAGE OF DORSEY'S SEARCH  
SECTION 3, AREA 1, LOTS 1A & 5A  
FAIRWAY HILLS GOLF COURSE

51st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 1 OF 2

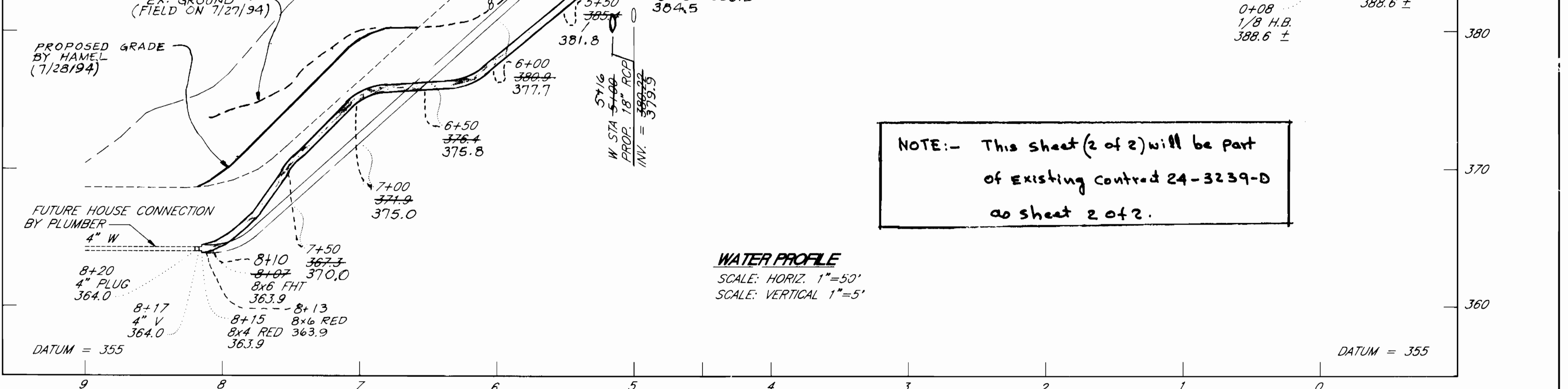


3239 WS/2 VDS 3/1 FAIRHILL GOLF COURSE AS-BUILT 11/14/94



THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SLEETS CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 APPROVED: *John K. Robertson* 7/11/94  
 HOWARD S.C.D. DATE  
 REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS.  
 APPROVED: *Jabian Ego* 7/11/94  
 U.S. SOIL CONSERVATION DISTRICT DATE

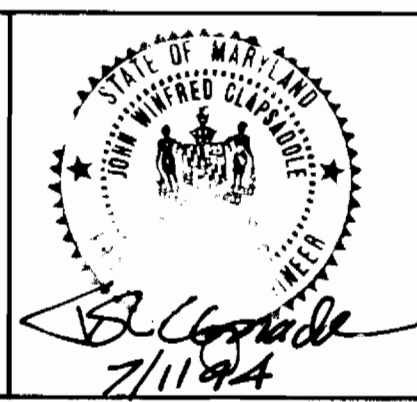
NOTE: SEDIMENT CONTROL SHALL BE PROVIDED AS PER SDP-92-104 AND SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, SECTION 219.



NOTE:- This sheet (2 of 2) will be part of existing contract 24-3239-D as sheet 2 of 2.

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 James A. Shaw 7/7/94  
 DIRECTOR OF PUBLIC WORKS DATE  
 Robert M. Benjamin 7-5-94  
 CHIEF, BUREAU OF UTILITIES DATE

**RBA** ENGINEERS - ARCHITECTS - PLANNERS  
 5560 STERRETT PLACE SUITE 300  
 COLUMBIA MARYLAND 21044  
 410/730-7950



DES.	BY	NO.	REVISION	DATE
JWC	JWC	1	ADDED WATER MAIN AT CLUBHOUSE (SHEET 2) & EXTENDED SEWER LINE	6/94
JWC	JWC	2	REVISED HORIZ. & VERT. OF WATER LINE	8/94

CHK: ELB  
 DATE: 6/94

PLAN & PROFILE OF WATER MAIN & SEWER LINE  
 CONTRACT NO. 24-3239-D  
 600' SCALE MAP NO. 30 BLOCK NO. 9

WATER MAIN & SEWER LINE EXTENSION  
 VILLAGE OF DORSEY'S SEARCH  
 SECTION 3 AREA 1 LOTS 1A, 5A  
 FAIRWAY HILLS GOLF COURSE  
 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 2 OF 2