



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 horizonal controls are based on Maryland State Coordinates.
- 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 the 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 Details for Construction. 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 utilities 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 561-2585

Baltimore Gas & Electric Co. Underground Damage Control - 234-5621

Baltimore Gas & Electric Co. Trouble Shooting - 298-9013

Miss Utility - 1-559-0100

Colonial Pipeline Co. - 795-1390

Bureau of Utilities, Howard County Department of Public Works - 992-2366

9.) 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.

10.) Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer. Payment for such removal shall be included in the unit price bid for excavation and backfill.

11.) 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.

12.) All water mains to be D.I.P. unless otherwise noted.

- 13) Top of all water mains to have a minimum of 31/2' cover unless otherwise noted.
- 14.) Valves adjacent to tees shall be strapped to tees.

15.) Block all fittings with concrete.

- 16) Bury line elevations on fire hydrants shall be set to the 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 to be compacted in accordance with Section 1003 \$ 1008 of the General Requirements for water and sewer.
- 17.) All water house connections shall be for an inside meter setting.

18.) The contractor shall not operate any water main valves on existing system.

19.) For all copper water house connections utilize flared type fittings only. 20.) All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C. or A.C.P. Class 2400 unless otherwise noted.

21) The contractor shall provide a joint in all sewer mains within 2-0 of exterior manhole wall.

22.) All manholes shall be 1'-0" inside diameter, unless otherwise noted.

23.) Manholes shown with 12" and 16" walls are brick manholes only.

24) Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G 5:52 Volume IV. Where watertight man hole frame and cover is used, set top of frame 1'-G" above finished grade.

25.) House (s) with the symbol "C.N.5" indicates cellar can not be served.

- 26.) All water house connections shall have a minimum vertical clearance of 12" above all sanitary
- 27.) All sanitary sewer house connections shall have a minimum vertical clearance of 17" below all water main crossings. 28.) Profile stations shall be adjusted as necessary to conform to plan dimensions.

29.) No pipe shall be laid until lines of excavation have been brought to subgrade.

CHIEF LAND DEVELOPMENT DIVISION DATE

ELLICOTT CITY, MARYLAND 21043

DATE 600 SCALE MAP NO. 308 36 BLOCK NO.

OF WATER AND SEWER MAINS

MILL HAVEN ELECTION DISTRICT NO. 2 CONTRACT NO. 24-1293-D

SCALE AS SHOWN SHEET L_OF_L