

**DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
UTILITY DESIGN DIVISION**

(Part I to be printed on Drawing No. 1 or 2 of the Water and/or Sewer Plans)

GENERAL NOTES

(TO BE PRINTED ON THE CONSTRUCTION PLAN, COVER SHEET)

- a. Approximate locations of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the contractor's expense.
- b. Topographic field surveys were performed on _____ (Month, Year) by _____ (Engineering/Survey Firm).
- c. The coordinates shown on the drawings are based on Maryland State Reference System NAD '83/91' as projected by Howard County Geodetic Control Stations No. _____, No. _____ and No. _____.
- d. All vertical controls are based on NAVD'88. Vertical controls provided on the drawings are _____ (Engineering/Survey firm shall provide description of vertical control points, i.e., iron bars, cross cuts on concrete structures, etc).
- e. All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- f. Clear all utilities by a minimum of 12 inches. Clear all poles by 5'- 0" minimum or tunnel as required unless otherwise noted. 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 monies owed by the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- g. For details not shown on the drawing, 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.
- h. Where test pits have been made on existing utilities, they are noted by the symbol  at the locations of the test pits. A note or notes containing the results of the test pit or pits in 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.
- i. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

AT & T	1-800-252-1133
BGE (Construction Services)	410-850-4620
BGE (Emergency)	410-685-1400
Bureau of Utilities	410-313-4900
Colonial Pipeline Company	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-9210
- j. Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not be removed or damaged by the contractor.

- k. The contractor shall remove trees, stumps, and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- l. The contractor shall notify the Bureau of Highways, Howard County, at (410)313-7450 at least five working days before open cutting or boring/jacking of any County road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per section 18.114(a) of the Howard County Code.

(Part II to be printed on Drawing No. 1 or 2 of the Water Plans Only)

GENERAL NOTES

(TO BE PRINTED ON THE CONSTRUCTION PLAN, COVER SHEET)

- a. All water mains to be D.I.P. Class 54 unless otherwise noted.
- b. Tops of all water mains to have a minimum of 3'-6" of cover unless otherwise noted.
- c. Valves adjacent to tees shall be strapped to tees.
- d. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- e. 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. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- f. The contractor shall not operate any water main valves on the existing water system.
- g. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- h. For sprinkler system for all town homes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

(Part III to be printed on Drawing No. 1 or 2 of the Sewer Plans Only)

GENERAL NOTES

(TO BE PRINTED ON THE CONSTRUCTION PLAN, COVER SHEET)

- a. All sewer mains shall be DIP or P.V.C. unless otherwise noted.
- b. All manholes shall be 4' - 0" inside diameter unless otherwise noted.
- c. Force mains shall be D.I.P. only.
- d. Manholes shown with 12" and 16" walls are for brick manholes only.
- e. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted on the drawings.
- f. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.