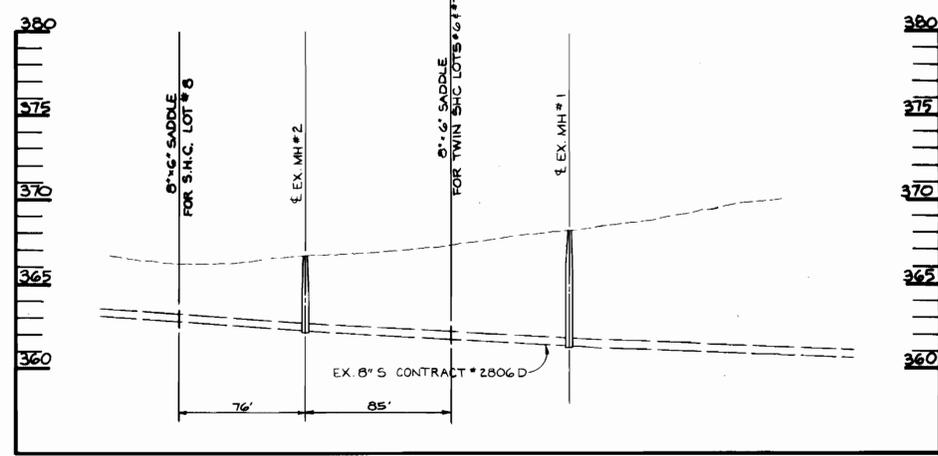
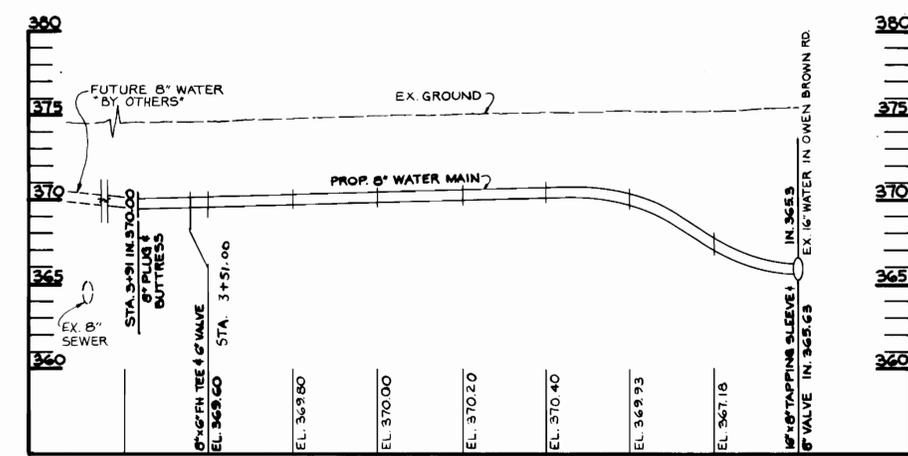


GENERAL NOTES

- 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 engineer at the contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. Data.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6'.
- For details not shown on the drawings, and for material 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.
- Contractor shall notify the following utilities or agencies at least five working days before starting work shown on the following plans:
 Baltimore Gas & Electric Company - Contractor Services - 561-2585
 Baltimore Gas & Electric Company - Underground Damage Control - 234-5621
 Baltimore Gas & Electric Company - Trouble Shooting - 298-9013
 Miss Utility - 1559-0100
 Colonial Pipeline Company - 795-1390
 Bureau of Utilities, Howard County Department of Public Works - 992-2366
- Trees are to be protected from damage to the 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 engineer. Payment for such removal shall be included in the 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 operation.
- 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.
- 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. Weill around the fire hydrant shall be compacted in accordance with Section 1003 and 1008 of the Standard Specifications.
- For all copper water house connections, utilize flared type fittings only.
- The contractor shall not operate any water main valves on the existing system.
- Water mains and water house connection lines must be placed so as to have at least one (1') foot separation from the sewer main or sewer house connection as they pass about it.
- PROVIDE CAST IRON SADDLE TO CONNECT THE SEWER HOUSE CONNECTIONS TO THE EXISTING MAINS, CONTRACTS 2806 D WATER & SEWER AS PER STD. DETAIL S.2.21 OF THE HOWARD CO. DESIGN MANUAL.



| QUANTITIES | | | |
|----------------------|-----------|----------|-------------------|
| ITEM | ESTIMATED | AS BUILT | MATERIAL SUPPLIER |
| 8" WATER | 391 L.F. | 390 L.F. | GRIFFIN PIPE CO. |
| 6" WATER | 8 L.F. | 6 L.F. | " |
| 1" WHC | 20 L.F. | 12 L.F. | TYPE "K" COPPER |
| 1/2" WHC | 10 L.F. | 30 L.F. | " |
| FIRE HYDRANT | 1 EACH | 1 EACH | M.H. VALVE CO. |
| 6" SEWER | 82 L.F. | 80 L.F. | AMERICAN PIPE CO. |
| 16" TAPPING 3/4" | 1 EACH | 1 EACH | M.H. VALVE CO. |
| 6" SADDLE FOR S.H.C. | 3 EACH | 2 EACH | AMERICAN PIPE CO. |
| 8" TEE | 1 EACH | 1 EACH | GRIFFIN PIPE CO. |
| 8" VALVE | 1 EACH | 1 EACH | M.H. VALVE CO. |

SEDIMENT CONTROL MEASURES FROM THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE SPECIFICATIONS AND AS SHOWN ON THIS SHEET

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS

John M. Helms 4/15/87 DATE
U.S. SOIL CONSERVATION SERVICE

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

John L. Allen 4/16/87 DATE
HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

F. N... 1-21-87 DATE
DIRECTOR OF PUBLIC WORKS

Robert H. Be... 1-20-87 DATE
CHIEF BUREAU OF UTILITIES

... 1-21-87 DATE
CHIEF BUREAU OF ENGINEERING

... 1-21-87 DATE
CHIEF LAND DEVELOPMENT DIVISION

D.S. THALER & ASSOC. INC.

11 WARREN ROAD
BALTIMORE, MARYLAND 21208

(301) 484-4100

M. Sed...

| DES. | BY | NO. | REVISION | DATE |
|------|--------|-----|---|---------|
| B.C. | D.L.C. | 1 | ADDED LOT DIMENSIONS & REVISIONS | 2/1/87 |
| B.C. | S.R.E. | 2 | REVISED LOT DIMENSIONS & REVISIONS | 3/2/87 |
| J.C. | J.L.C. | 3 | REVISED QUANTITIES & REVISIONS | 6/15/87 |
| M.S. | J.L.C. | 4 | ADDED 10' S.H.C. - SEEING JACKING NOTE, LOT 4'S | 6-17-87 |
| M.S. | J.L.C. | 5 | REVISED EX. SEWER 1" S.H.C.'S IN PLAN & PROFILE (35' SOUTH) | 6-17-87 |

PLAN OF WATER MAIN
CONTRACT #24-1597-D

OWEN BROWN MANOR
SECTION I, AREA I
PARCEL 214

ELECTION DISTRICT #5
TAX MAP #35

HOWARD COUNTY, MD.

SCALE AS SHOWN
SHEET 1 OF 1