

# PUBLIC WATER CONSTRUCTION PLANS

## CLARKSVILLE CENTER

5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT No. 44-4033-D

### GENERAL NOTES

#### PART 1 - GENERAL

- 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. (NORTH AMERICAN DATUM OF 1983 (NAD'83)).
- ALL VERTICAL CONTROLS ARE BASED ON U.S.C.S. DATA.
- 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. 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 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.
- 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.
- 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. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
STATE HIGHWAY ADMINISTRATION.....410-531-5533  
BGE CONTRACTOR SERVICES.....410-850-4620  
BGE UNDERGROUND DAMAGE CONTROL.....410-291-4607  
MISS UTILITY.....1-800-257-7777  
COLONIAL PIPELINE CO.....410-549-4120  
HOWARD CO. DEPT. OF PUBLIC WORKS.....410-313-4900  
BUREAU OF UTILITIES.....1-800-446-5266  
BELL ATLANTIC.....1-800-446-5266
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS 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. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

#### PART 2 - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.5' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 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 STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.

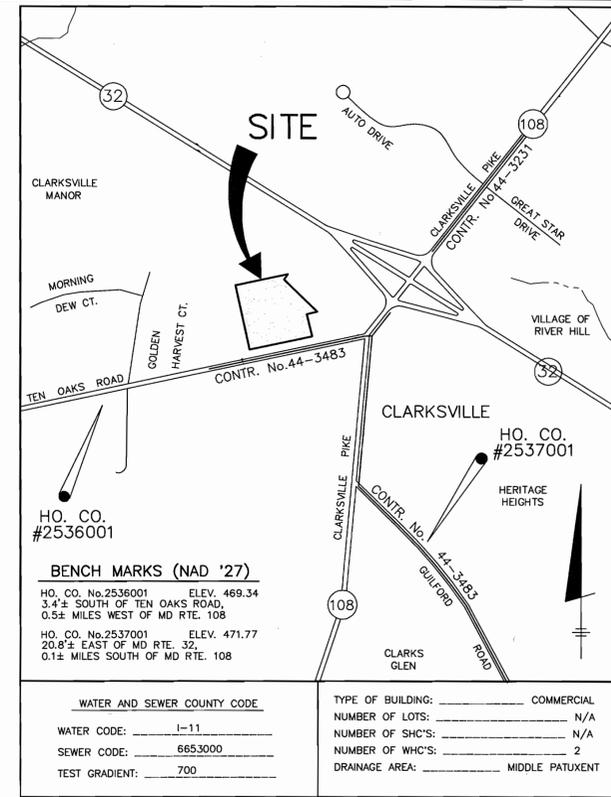
### LEGEND

- EXIST. WATER MAIN 
- EXIST. SEWER MAIN 
- EXIST. SEWER MANHOLE 
- PROP. WATER MAIN 
- PROP. STORM DRAIN (BY OTHERS) 
- PROP. WATER HOUSE CONNECTION (SINGLE - 1") 
- PROP. FIRE HYDRANT 
- PROP. VALVE 
- PROP. PLUG & BUTTRISS 

| ITEMS          | QUANTITIES ESTIMATED | AS-BUILT   |              |                          |
|----------------|----------------------|------------|--------------|--------------------------|
|                |                      | QUANTITIES | TYPE         | MANUF./SUPPLIER          |
| 8" WATER       | 265 L.F.             | 265 L.F.   | DUCTILE IRON | U.S. PIPE & FRODOY / BRS |
| 6" VALVE       | 2 EA.                | 2          |              |                          |
| 8" x 6" FH TEE | 1 EA.                | 1          |              | MUELLER / BRS            |
| 6" WHC         | 47 L.F.              | 47 L.F.    |              | BRS                      |
| FIRE HYDRANTS  | 1 EA.                | 1          |              | MUELLER / BRS            |
| 8" x 6" T.S.V. | 1 EA.                | 1          |              | MUELLER / DRESSER / BRS  |
| 8" x 6" T.S.V. | 1 EA.                | 1          |              |                          |
| 6" CAP & BUTT. | 1 EA.                | 1          |              | U.S. PIPE / BRS          |
| 6" CAP & BUTT. | 2 EA.                | 2          |              |                          |
| 8"-1/8 H.B.    | 1 EA.                | 1          |              | M.S. COMPACT             |
| 6"-1/8 V.B.    | 2 EA.                | 2          |              | M.S. COMPACT             |

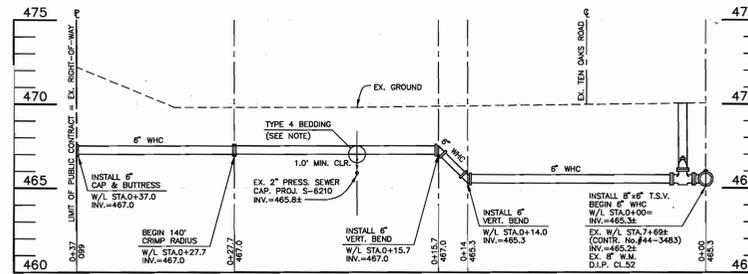
NAME OF UTILITY CONTRACTOR:  
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

| COORDINATE CHART |           |           |
|------------------|-----------|-----------|
| DESCRIPTION      | NORTHING  | EASTING   |
| 8" W. @ EX. W/L  | 499969.17 | 815556.18 |
| 8" W. @ 1+50     | 500115.41 | 815522.80 |
| 8" W. @ H.B.     | 500205.74 | 815502.25 |
| 8" W. @ 6" WHC   | 500209.57 | 815496.17 |
| 6" WHC @ PUE     | 500218.03 | 815501.49 |
| 8" W. @ FH TEE   | 500216.34 | 815485.41 |
| FH               | 500212.62 | 815483.07 |
| 8" W. @ CAP(EN)  | 500217.65 | 815483.33 |
| 6" W. @ EX. W/L  | 499933.45 | 815393.42 |
| 6" W. @ R/W(EN)  | 499969.64 | 815385.71 |

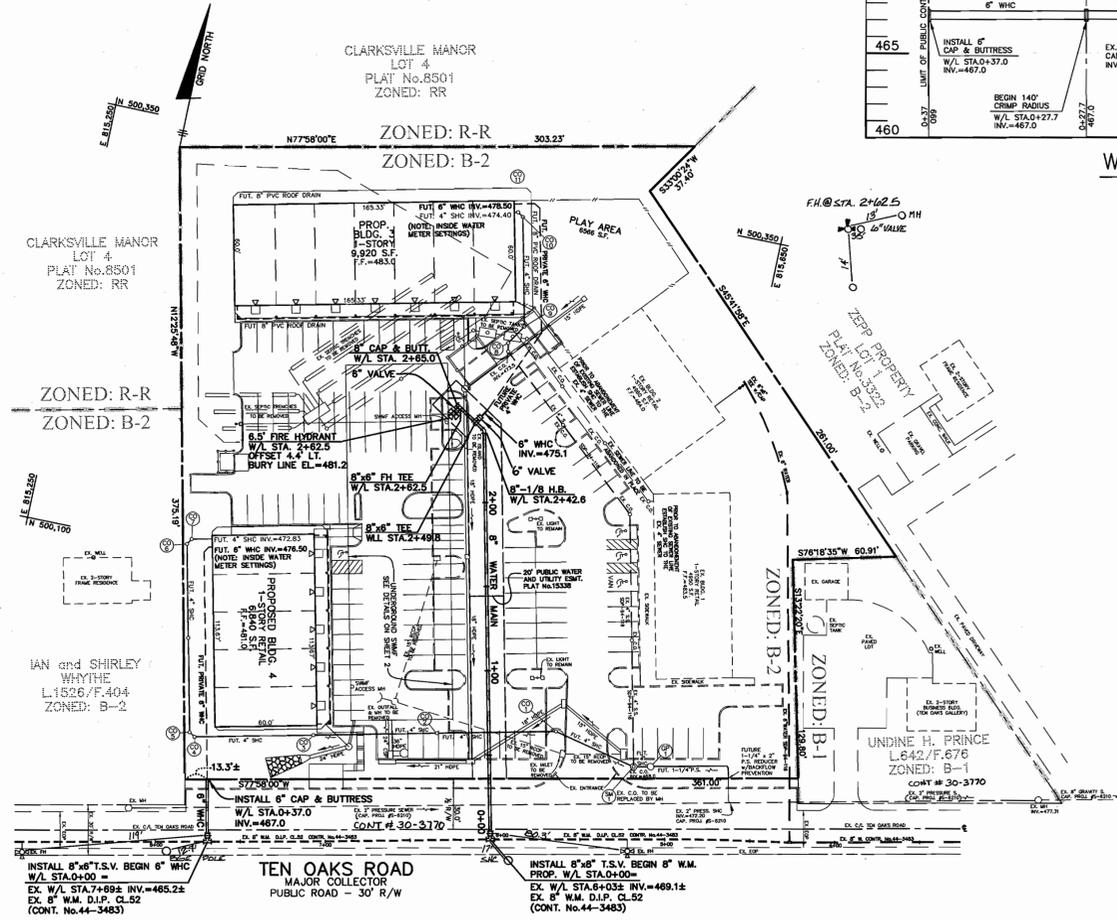
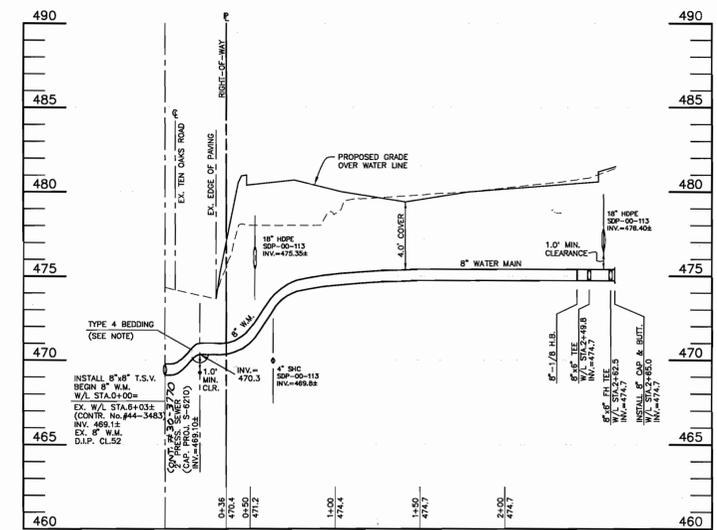
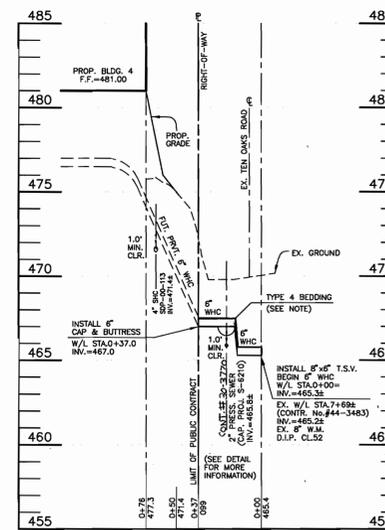


### VICINITY MAP

SCALE: 1" = 600'



NOTE: USE TYPE 4 BEDDING FOR LOCATIONS WHERE THE WATER LINES CROSS OVER THE 2" PRESS. SEWER



HOWARD SOIL CONSERVATION DISTRICT:  
 REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT  
 AND MEETS TECHNICAL REQUIREMENTS

*Jim Mayo* 5-21-02  
 NATURAL RESOURCES CONSERVATION SERVICE DATE

*John Whitton* 5-21-02  
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER SITE DEVELOPMENT PLANS SDP-00-113

### DEVELOPER

MARY AGNES LEWIS  
 6005 TEN OAKS ROAD  
 CLARKSVILLE, MD 21029  
 410-531-3813

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

**BENCHMARK**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE & SUITE 418  
 CLICCOCK CITY, MARYLAND 21043  
 phone: 410-465-6105 • fax: 410-465-6644  
 email: Benchmark@cois.com

DESIGN: DAM  
 DRAWN: MCR/DBT  
 CHECK: DAM  
 DATE: 5-10-02

|                |     |                           |  |
|----------------|-----|---------------------------|--|
| DESIGN: DAM    |     |                           |  |
| DRAWN: MCR/DBT |     |                           |  |
| CHECK: DAM     | KCI | WATER AS-BUILT DATA ADDED | 3/20/03  |
| DATE: 5-10-02  | MCR | FREE                      | ADD HO.CO. CONTR NO. TO CAPITOL PROS. SEWER MAIN |
| BY NO.         |     | REVISIONS                 | DATE   |

PLAN AND PROFILES  
 OF WATER MAIN EXTENSIONS

600 SCALE MAP NO. 34

BLOCK 12

**CLARKSVILLE CENTER**  
 SHOPPING CENTER ADDITION  
 BUILDINGS 3 AND 4  
 ELECTION DISTRICT NO. 5

**CONTRACT NO. 44-4033-D**

SCALE:  
 AS SHOWN

SHEET NO.  
 1 OF 1