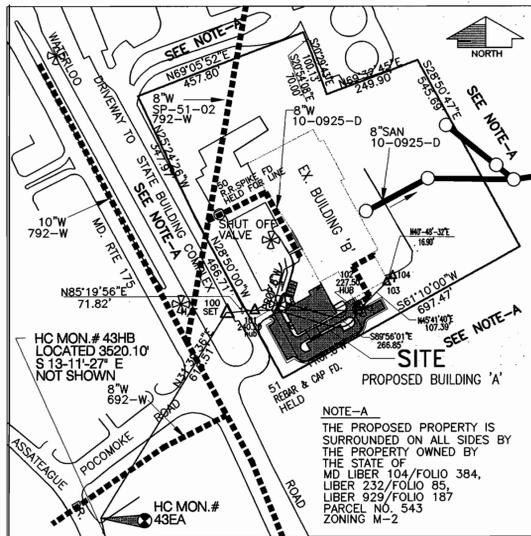


# HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY



LOCATION MAP  
SCALE: 1"=200'

WATER LINE TABULATION CHART

| WATER LINE STATION | APPURTENANCE       | © ROAD STATION (BASELINE 'A') | OFFSET (BASELINE 'A') |
|--------------------|--------------------|-------------------------------|-----------------------|
| 10+00±             | 8" TS & V          | 0+6.11                        | 124.86'± LEFT         |
| 10+48              | 1/8 HB             | 0+6.11                        | 77.98' LEFT           |
| 11+29              | 8"x6" TEE          | 0+63.91                       | 19.77' LEFT           |
| 11+29              | 6" VALVE           | 0+63.91                       | 22.77' LEFT           |
| 11+47              | 1/8 HB             | 0+76.60                       | 7.00' LEFT            |
| 12+27              | 8"x6" TEE          | 1+56.67                       | 7.00' LEFT            |
| 12+27              | 6" VALVE           | 1+56.67                       | 7.00' LEFT            |
| 12+82              | 1/8 HB             | 2+13.95                       | 3.81' LEFT            |
| 12+92              | 1/8 HB             | 2+25.71                       | 3.81' LEFT            |
| 14+43              | 1/8 HB             | 3+83.05                       | 4.32' LEFT            |
| 14+55              | 1/8 HB             | 3+96.8                        | 4.32' LEFT            |
| 15+07              | 8" TS & V          | 4+43.56                       | 4.32' LEFT            |
| N.A.               | 8" INSERTION VALVE | 4+51.5                        | 23.0' RT.             |

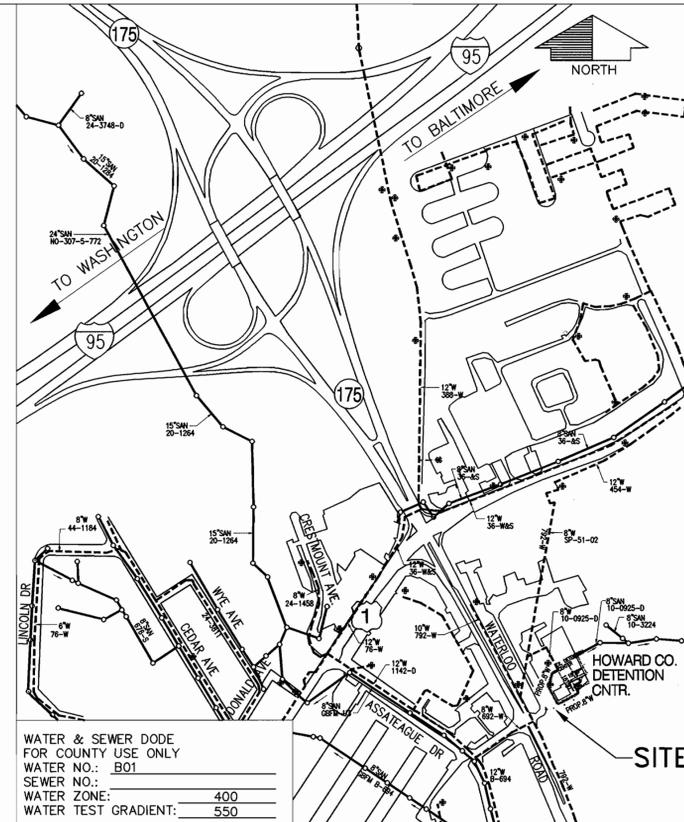
QUANTITIES

| ITEM   | QUANTITIES ESTIMATED | AS - BUILT |      |                       |
|--|----------------------|------------|------|-----------------------|
|  |                      | QUANTITIES | TYPE | MANUFACTURER/SUPPLIER |
| 8" WATER                                     | 507                  |            |      |                       |
| 6" WATER                                     | 11                   |            |      |                       |
| 8" TS & V                                    | 2 EA.                |            |      |                       |
| 8" X 6" TEES                                 | 2 EA.                |            |      |                       |
| 6" VALVES                                    | 2 EA.                |            |      |                       |
| FIRE HYDRANTS                                | 1 EA.                |            |      |                       |
| 8" CAPS                                      | 2 EA.                |            |      |                       |
| 8" INSERTION VALVE                           | 1 EA.                |            |      |                       |
| NAME OF UTILITY CONTRACTOR                   |                      |            |      |                       |
| SURVEY AND DRAFTING DIVISION AS - BUILT DATE |                      |            |      |                       |

GENERAL NOTES

PART I

- 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.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 83/91 AS PROJECTED BY HOWARD COUNTY HORIZONTAL AND VERTICAL GEODETIC CONTROL STATION NOS. 43EA AND 43HB.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". 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 OWNED 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 DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PIT 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 IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 AT&T.....1-800-252-1133  
 BALTIMORE GAS & ELECTRIC CO. (CONTRACTOR SERVICES).....410-850-4620  
 BALTIMORE GAS & ELECTRIC CO. (UNDER GROUND DAMAGE CONTROL).....410-787-9068  
 BUREAU OF UTILITIES.....410-313-4900  
 COLONIAL PIPELINE CO. ....410-795-1390  
 MISS UTILITY.....1-800-257-7777  
 STATE HIGHWAY ADMINISTRATION.....410-531-5533  
 VERIZON .....1-800-257-7777/410-224-9210



WATER & SEWER DODE FOR COUNTY USE ONLY  
 WATER NO.: B01  
 SEWER NO.:  
 WATER ZONE: 400  
 WATER TEST GRADIENT: 550

TYPE OF BUILDING: DETENTION CENTER  
 NO. OF LOTS/PARCELS: 1  
 NO. OF WATER HOUSE CONNECTIONS: 1  
 NO. OF SEWER HOUSE CONNECTIONS:  
 DRAINAGE AREA: PATAPSCO  
 TREATMENT PLANT: NOT APPLICABLE

VICINITY MAP  
SCALE: 1"=600'

PLAN REFERENCE NO. SDP-02-20

- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 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 DWP REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- THIS WATER DRAWING IS BASED ON FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY PROGRESSIVE ENGINEERING CONSULTANTS INC. IN JULY 2000.

PART II WATER

- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

**ENGINEER'S CERTIFICATE**  
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.  
 Signature of Engineer (Print name below signature) *Richard Sobott* Date *2/2/03*

**DEVELOPER'S CERTIFICATE**  
 I/We certify that all development and construction will be done according to this plan and that any responsible person involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.  
 Signature of Developer (Print name below signature) \_\_\_\_\_ Date \_\_\_\_\_

Reviewed for HOWARD SCD and meet Technical Requirements.  
 U.S.D.A. - Natural Resources Conservation Service  
 The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT AS PER SDP-02-20  
 Signature \_\_\_\_\_ Date *2/2/03*

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|  |  |
|--|--|
| DEPARTMENT OF PUBLIC WORKS<br>HOWARD COUNTY, MARYLAND<br><i>Richard Sobott</i><br>CHIEF, BUREAU OF UTILITIES<br>DATE: 2-6-03 | DEPARTMENT OF PLANNING AND ZONING<br>HOWARD COUNTY, MARYLAND<br><i>Richard Sobott</i><br>CHIEF, DEVELOPMENT ENGINEERING DIVISION<br>DATE: 2/2/03 |
|--|--|

**DCI**  
 DANIEL CONSULTANTS, INC.  
 CONSULTING ENGINEERING AND PLANNING  
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045  
 Phone: 410-995-0090 Fax: 410-992-7038

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 RICHARD SOBOTT  
 2/4/03

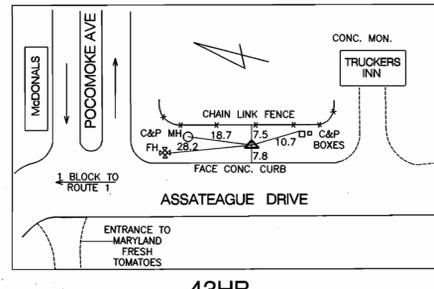
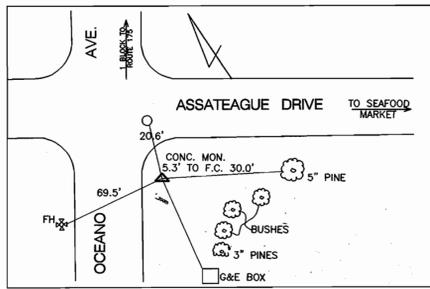
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| DESIGN BY:  |               |
| DRAWN BY:   |               |
| CHECKED BY: |               |
| DATE:       | OCTOBER, 2002 |
| BY NO.      |               |
| REVISION    |               |
| DATE        |               |

|  |  |
|--|--|
| WATER MAINS  |  |
| 600' SCALE TAX MAP NO.43 BLOCK NO.9,10,15 PARCEL NO. 660 |  |
| F.C.C. WORK ORDER NO.                                    |  |

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY  
 CONTRACT PROJECT NO. 44-4077  
 CAPITAL PROJECT NO. P-4916  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 3

GEODETIC SURVEY CONTROL



43HB

NOTES:  
FOR COORDINATES AND ELEVATIONS  
SEE TRAVERS LINE COORDINATES TABLE

CURVE DATA

| CURVE-1 |                |
|---------|----------------|
| Δ       | 90°-00'-00"    |
| Dc      | = 226'-54'-50" |
| Rc      | = 25.25'       |
| Lc      | = 39.66        |
| Tc      | = 25.25'       |
| E       | = 10.459'      |

| CURVE-2 |                |
|---------|----------------|
| Δ       | 90°-00'-00"    |
| Dc      | = 226'-54'-50" |
| Rc      | = 25.25'       |
| Lc      | = 39.66        |
| Tc      | = 25.25'       |
| E       | = 10.459'      |

TRAVERSE LINE COORDINATES

| NO   | NORTHING    | EASTING      | ELEVATION |
|------|-------------|--------------|-----------|
| 43HB | 543166.7760 | 1374425.0200 | 252.306   |
| 43EA | 546594.0000 | 1373621.7450 | 242.876   |
| 100  | 547120.4624 | 1373946.3862 | —         |
| 101  | 547126.3070 | 1374018.0680 | 240.20    |
| 102  | 547125.9978 | 1374284.9147 | 227.50    |
| 103  | 547201.0065 | 1374361.7639 | —         |
| 104  | 547214.6624 | 1374373.5551 | —         |

BASE LINE COORDINATES

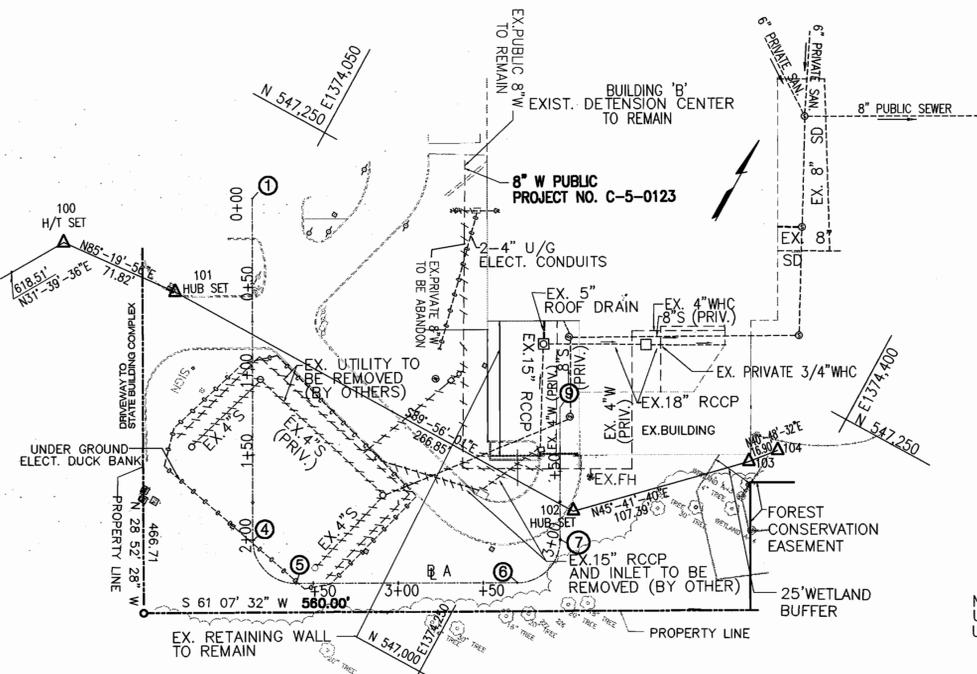
| NO | NORTHING    | EASTING      |
|----|-------------|--------------|
| ①  | 547196.0481 | 1374031.5005 |
| ④  | 547020.5301 | 1374127.7301 |
| ⑤  | 547010.5283 | 1374162.0097 |
| ⑥  | 547073.1698 | 1374276.2647 |
| ⑦  | 547107.4494 | 1374286.2665 |
| ⑧  | 547175.2477 | 1374249.0954 |

CONSTRUCTION SEQUENCE

1. INSTALL 8" WATER LINE, FIRE HYDRANT, AND WHC 8"x6" TEE AND VALVE.
2. INSTALL TAPPING SLEEVE AND VALVE.
3. INSTALL 8" INSERTION VALVE.
4. SHUT OFF WATER. SHUT OFF SHALL BE LIMITED TO 8 HOURS IN LATE EVENING. SHUT OFF VALVE IS SHOWN ON LOCATION MAP.
5. REMOVE EXISTING PIPE AS REQUIRED TO INSTALL CAP. RESTRAIN JOINTS BETWEEN CAP AND TAPPING SLEEVE.
6. RESTORE SERVICE.

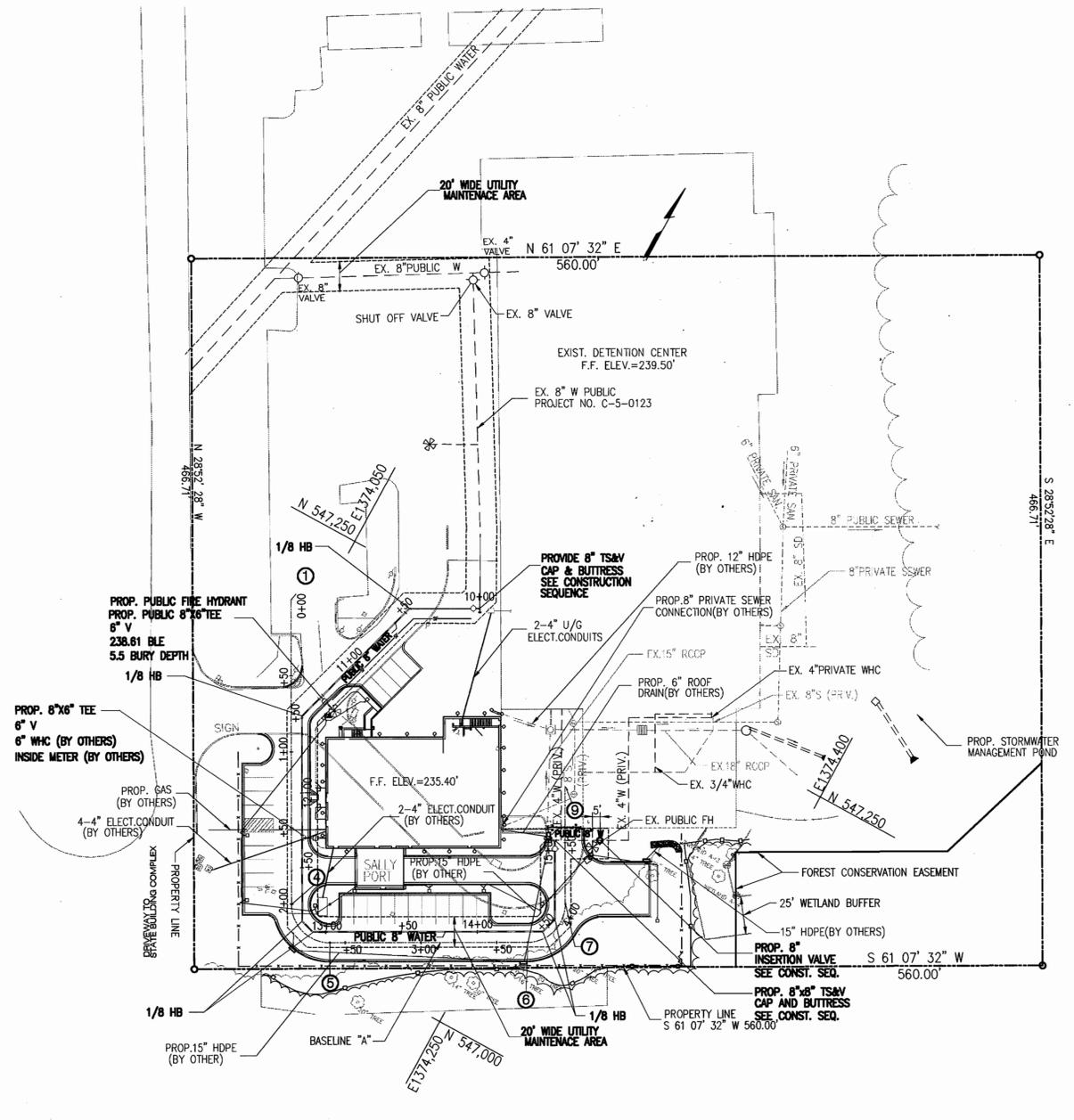
LEGEND:

- EX. EDGE OF BRUSH/TREES
- EX. FENCE
- PROPOSED CURB AND GUTTER (BY OTHERS)
- NEW FENCE (BY OTHERS)
- TREE
- EXTERIOR POLE MOUNTED LIGHT FIXTURE (BY OTHERS)
- EXTERIOR WALL PACK FIXTURE (BY OTHERS)
- BLAZE ORANGE PLASTIC MESH TREE PROTECTION FENCE (BY OTHERS)



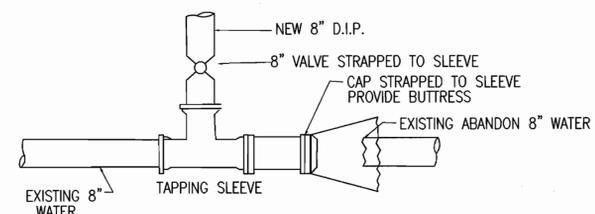
EXISTING CONDITIONS  
UTILITY PLAN  
SCALE 1" = 50'

NOTE:  
UNLESS OTHERWISE INDICATED EXISTING  
UTILITIES ARE TO REMAIN.



PROPOSED CONDITIONS  
UTILITY PLAN  
SCALE 1" = 50'

NOTE:  
LIMIT OF DISTURBANCE IS HELD WITHIN THE  
20' WIDE MAINTENANCE AREA.



NOTE: PRIOR TO RESTORING SERVICE BACKFILL AROUND VALVE AND NEW 8" DIP

TAPPING SLEEVE AND VALVE/CAP  
DETAIL A

**ENGINEER'S CERTIFICATE**  
I Certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.  
*Richard Sobott* 2/4/03  
Signature of Engineer (Print name below signature) Date

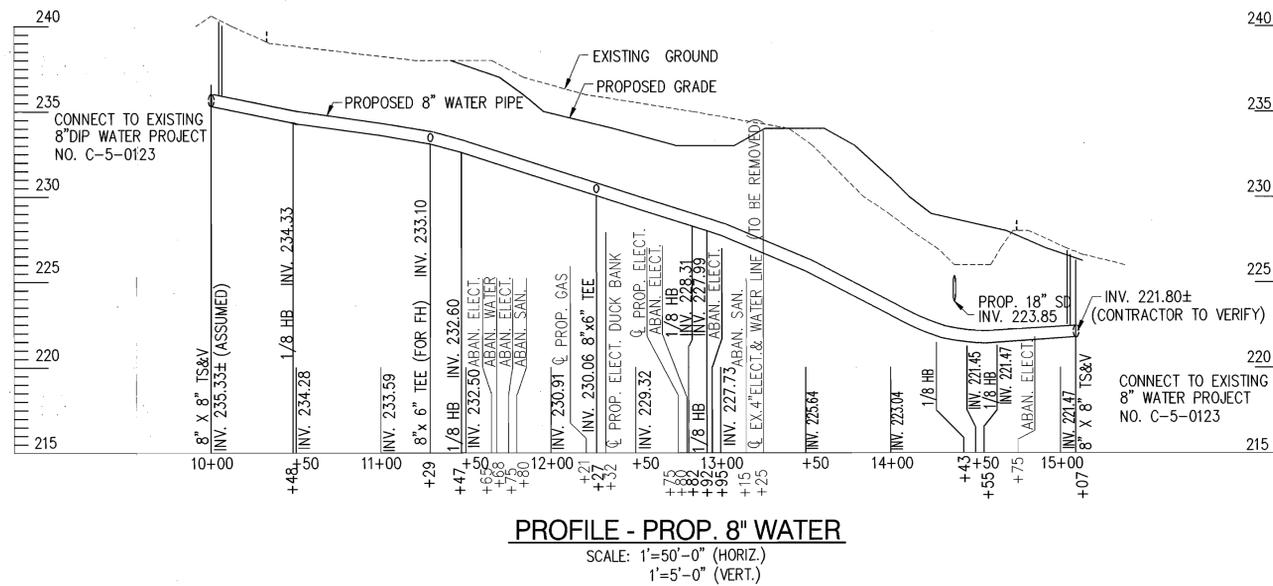
**DEVELOPER'S CERTIFICATE**  
I/We Certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of Attendance of the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.  
Signature of Developer (Print name below signature) Date

Reviewed for HOWARD SCD and meet Technical Requirements.  
*Jim Hays* 2/7/03  
U.S.D.A. - Natural Resources Conservation Service Date

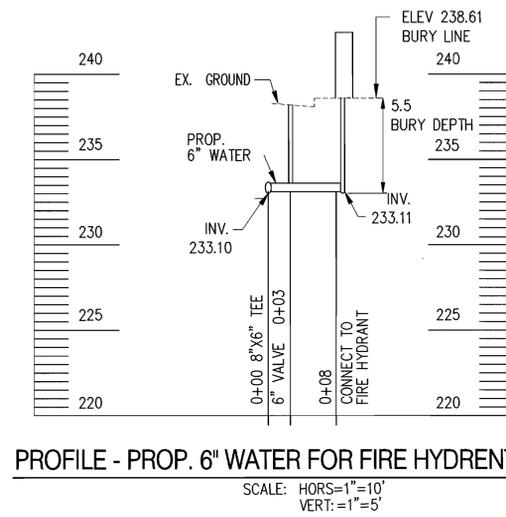
The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT AS PER SDP-02-20  
*Jeffery* 2/7/03  
Howard SCD Date

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|  |  |  |   |  |  |                                    |
|--|--|--|---|--|--|------------------------------------|
| DEPARTMENT OF PUBLIC WORKS<br>HOWARD COUNTY, MARYLAND<br><br><i>Richard Sobott</i> 2-6-03<br>CHIEF, BUREAU OF UTILITIES DATE | DEPARTMENT OF PLANNING AND ZONING<br>HOWARD COUNTY, MARYLAND<br><br><i>Jim Hays</i> 2/7/03<br>CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE | DANIEL CONSULTANTS, INC.<br>CONSULTING ENGINEERING AND PLANNING<br>8950 Rt. 108 E., Suite 229 Columbia, MD. 21045<br>Phone: 410-995-0090 Fax: 410-992-7038 | DESIGN BY: _____<br>DRAWN BY: _____<br>CHECKED BY: _____<br>DATE: OCTOBER, 2002 | WATER MAINS<br><br>600' SCALE TAX MAP NO.43 BLOCK NO.9,10,15 PARCEL NO. 660<br>F.C.C. WORK ORDER NO. _____ | HOWARD COUNTY CENTRAL BOOKING &<br>DISTRICT COURT COMMISSIONERS FACILITY<br><br>CONTRACT PROJECT NO. 44-4077<br>CAPITAL PROJECT NO. P-4916<br>FIRST ELECTION DISTRICT<br>HOWARD COUNTY, MARYLAND | SCALE AS SHOWN<br><br>SHEET 2 OF 3 |
|--|--|--|---|--|--|------------------------------------|



**PROFILE - PROP. 8" WATER**  
 SCALE: 1"=50'-0" (HORIZ.)  
 1"=5'-0" (VERT.)



**PROFILE - PROP. 6" WATER FOR FIRE HYDRENT**  
 SCALE: HORS=1"=10'  
 VERT.=1"=5'

**NOTE:**  
 SEE SHEET 2 OF 3 FOR PLAN VIEW.

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DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*Richard Sobott*  
 CHIEF, BUREAU OF UTILITIES  
 DATE: 2-6-03

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
*Richard Sobott*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 2/13/03

**DCI**  
 DANIEL CONSULTANTS, INC.  
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 Phone: 410-995-0090 Fax: 410-992-7038

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 RICHARD SOBBOTT  
 OCTOBER, 2002

|             |               |    |     |          |
|-------------|---------------|----|-----|----------|
| DESIGN BY:  |               |    |     |          |
| DRAWN BY:   |               |    |     |          |
| CHECKED BY: |               |    |     |          |
| DATE:       | OCTOBER, 2002 | BY | NO. | REVISION |

| WATER PROFILES                            |   |
|---|---|
| 600' SCALE TAX MAP NO.43 BLOCK NO.9,10,15 | PARCEL NO. 660                                |
| F.C.C. WORK ORDER NO.                     |   |
| FILE NAME:                                | H:\JOBS\00-300-DETENSION-NEWCIVLDWG\WATERPLAN |

HOWARD COUNTY CENTRAL BOOKING &  
 DISTRICT COURT COMMISSIONERS FACILITY  
 CONTRACT PROJECT NO. 44-4077  
 CAPITAL PROJECT NO. P-4916  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 3 OF 3