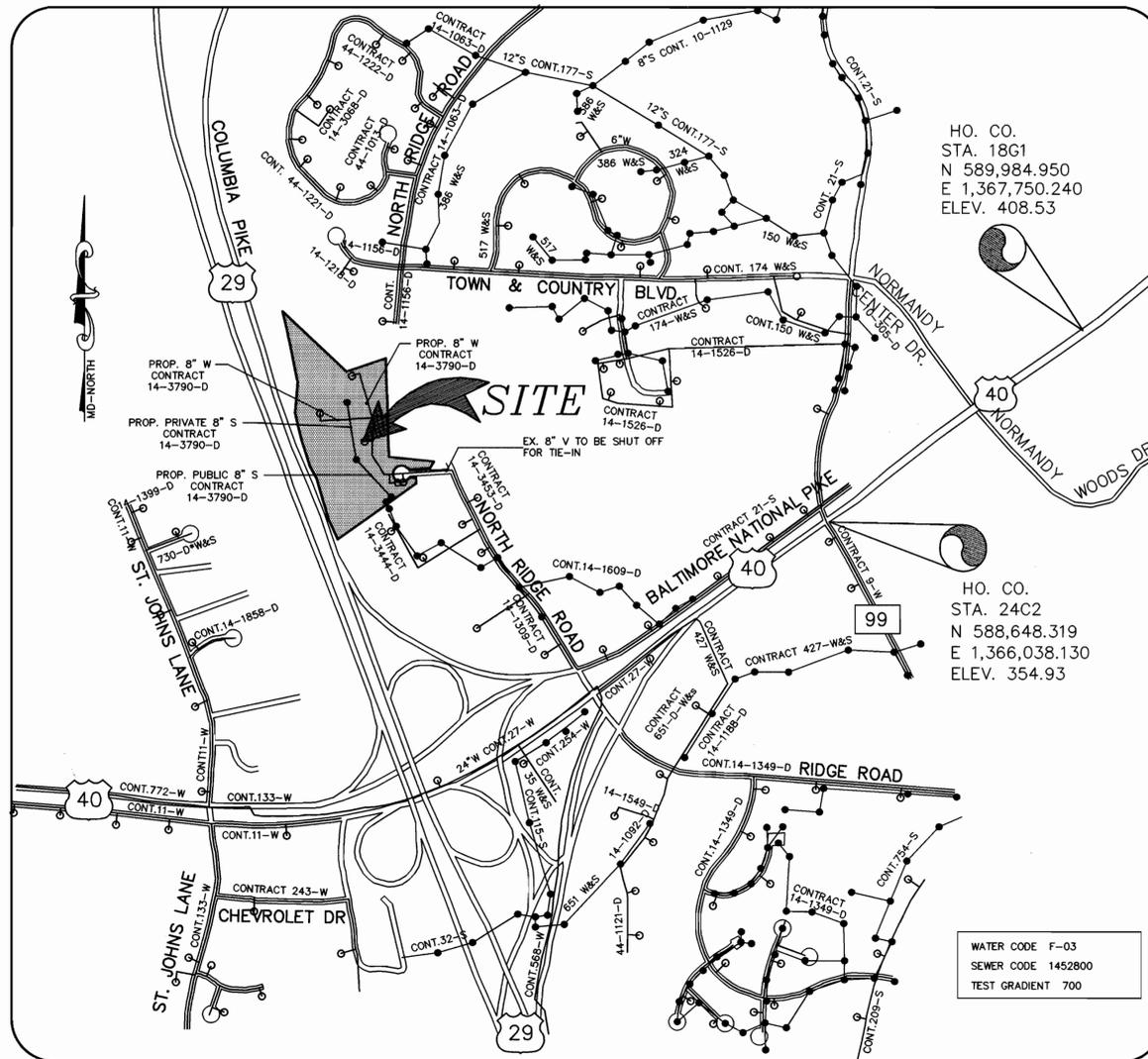


**QUANTITY TABLE**

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH	3			
DROP MANHOLE (TYPE B)	1			
8" SEWER MAIN	747 L.F.			
4" SEWER HOUSE CONNECTION	44 L.F.			
# SEWER HOUSE CONNECTIONS	3			
8" WATER	1,115 L.F.			
6" WATER	10 L.F.			
F.H.	4			
# WHC	3			
4" WHC	30 L.F.			
8" X 8" T	1			
8" X 6" T	4			
8" V	2			
6" V	4			
1/8 HB	2			
1/32 HB	1			
8" C & B	3			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				



**VICINITY MAP**

SCALE : 1" = 600'

TYPE OF BUILDING	COMMERCIAL, OFFICE BUILDINGS
No. OF UNITS	3
No. OF WATER HOUSE CONNECTION	3
No. OF SEWER HOUSE CONNECTIONS	3
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO

**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 8". 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 [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 WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 AT & T (410) 865-3803  
 CHEASAPEAKE & POTOMAC TELEPHONE CO. (410) 597-8585  
 STATE HIGHWAY ADMINISTRATION (410) 531-5533  
 BG & E CO. CONTRACTOR SERVICES (410) 850-4620  
 BG & E CO. UNDERGROUND DAMAGE CONTROL (410) 787-9068  
 MISS UTILITY 1-800-257-7777  
 COLONIAL PIPELINE CO. (410) 795-1390  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES (410) 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED OUTSIDE 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.
- 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 HOWARD COUNTY CODE.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS 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.
- 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 STRAPPED 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 TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 65.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1' - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- STATIONING SHOWN IS WATER MAIN AND CENTER LINE STATIONING.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- SEDIMENT CONTROL TO BE PROVIDED BY SDP-98-29
- STORM DRAIN SYSTEM INDICATED FOR INFORMATIONAL PURPOSES ONLY, SEE ROAD PLANS FOR CONSTRUCTION DATA.
- COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.

WATER CODE F-03  
SEWER CODE 1452800  
TEST GRADIENT 700

**INDEX OF DRAWINGS**

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER MAIN EXTENSION PLAN
3	WATER & SEWER PROFILES

**CONTRACT No. 14-3790-D**  
**ELLICOTT WALL-MART**  
**PARCEL - D**  
**WATER AND SEWER MAIN EXTENSIONS**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

**OWNER/DEVELOPER**

ELLICOTT WALL-MART PARCEL D  
LIMITED PARTNERSHIP  
1205 YORK ROAD, PENTHOUSE  
LUTHERVILLE, MD 21093  
(410) 825-8400

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 AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERFORM ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 1/27/00  
DEVELOPER'S SIGNATURE  
DEVELOPER'S NAME

I HEREBY 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 THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]* 1/27/00  
ENGINEER'S SIGNATURE  
ENGINEER'S PROFESSIONAL EX. NO.

REVIEWED FOR TECHNICAL AND MEETS TECHNICAL REQUIREMENTS.

*[Signature]* 3/5/00  
USDA-NATURAL RESOURCES CONSERVATION SERVICE

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

*[Signature]* 3/5/00  
HOWARD SCD

PLAN REFERENCE NUMBERS  
F-96-01, F-96-09,  
SDP 96-01, SDP-98-29

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 3-6-00  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]* 2/10/00  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0296 Bal. (301) 621-5221 Wash. (410) 997-0298 Fax.

*[Seal]*

engineering	MMP				
illustration	MMP				
approval					
project	97024				
date	JAN. 00	BY	NO.	REVISION	DATE

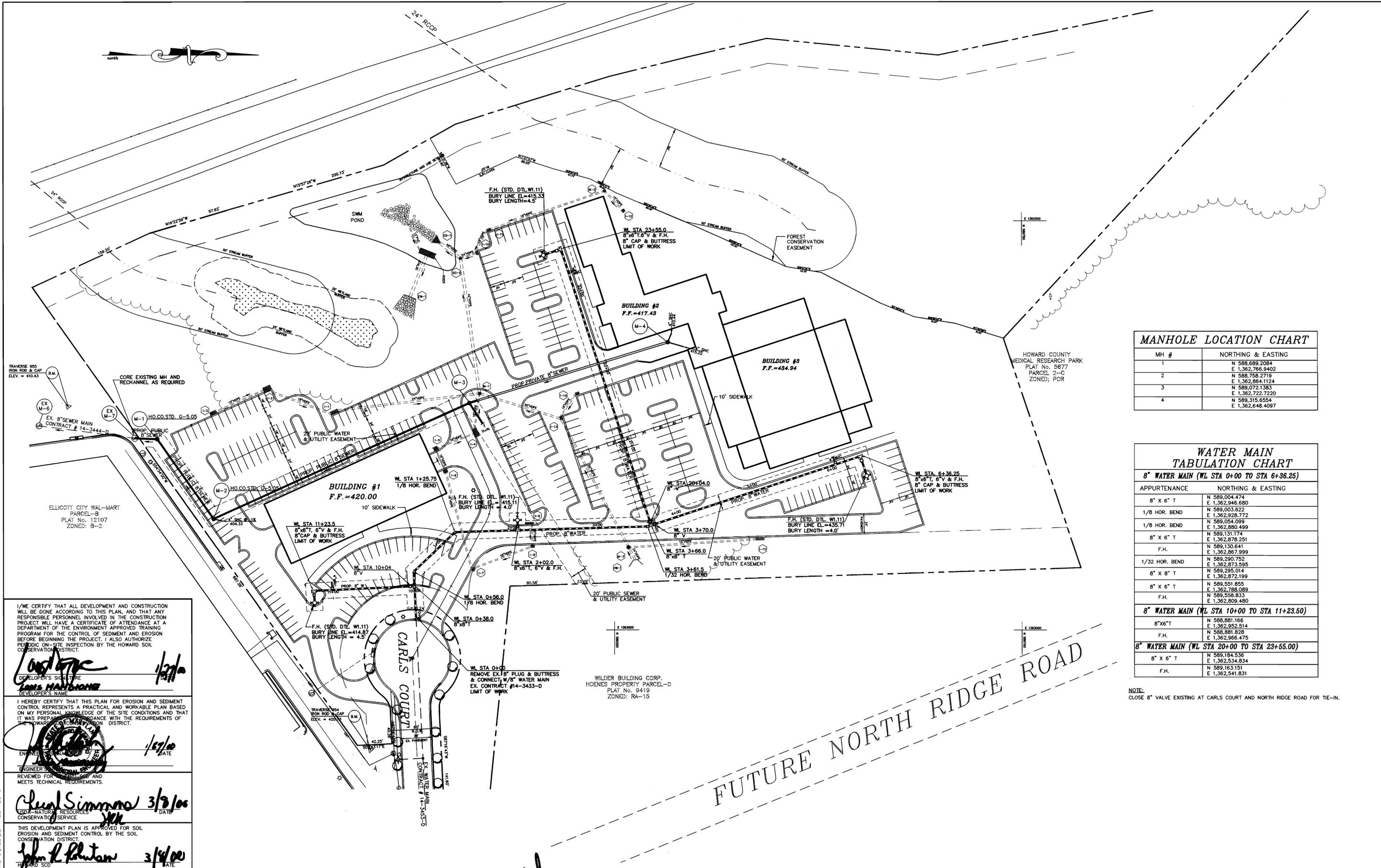
**TITLE SHEET**

600' SCALE MAP NO.17 & 24 BLOCK NO.18, 5 & 6

**ELLICOTT WAL-MART**  
**PARCEL - D**  
 CONTRACT No. 14-3790-D  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

scale  
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1 OF 3

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**MANHOLE LOCATION CHART**

MH #	NORTHING & EASTING
1	N 588,689.2084 E 1,362,766.9402
2	N 588,758.2719 E 1,362,864.1124
3	N 589,072.1383 E 1,362,722.7220
4	N 589,315.6554 E 1,362,648.4097

**WATER MAIN TABULATION CHART**

APPURTENANCE	NORTHING & EASTING
8" x 6" T	N 589,004.474 E 1,362,946.680
1/8 HOR. BEND	N 589,003.622 E 1,362,928.772
1/8 HOR. BEND	N 589,054.099 E 1,362,880.499
8" x 6" T	N 589,131.174 E 1,362,878.251
F.H.	N 589,130.641 E 1,362,867.999
1/32 HOR. BEND	N 589,290.752 E 1,362,873.595
8" x 8" T	N 589,295.014 E 1,362,872.199
8" x 6" T	N 589,551.855 E 1,362,788.089
F.H.	N 589,558.833 E 1,362,809.480
<b>8" WATER MAIN (WL STA 10+00 TO STA 11+23.50)</b>	
8"x6" T	N 588,881.166 E 1,362,952.514
F.H.	N 588,881.829 E 1,362,966.475
<b>8" WATER MAIN (WL STA 20+00 TO STA 23+55.00)</b>	
8" x 6" T	N 589,184.536 E 1,362,534.834
F.H.	N 589,163.151 E 1,362,541.831

NOTE:  
CLOSE 8" VALVE EXISTING AT CARLS COURT AND NORTH RIDGE ROAD FOR TIE-IN.

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 AT A 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 THE HOWARD SOIL CONSERVATION DISTRICT.

*Landmark* 1/27/00  
DEVELOPER'S SIGNATURE  
DEVELOPER'S NAME  
DATE

I HEREBY 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 THE REQUIREMENTS OF THE HOWARD COUNTY DISTRICT.

*John R. Plouton* 1/27/00  
ENGINEER'S SIGNATURE  
ENGINEER'S NAME  
DATE

REVIEWED FOR TECHNICAL REQUIREMENTS.

*John R. Plouton* 3/13/00  
DATE

USDA-NATURAL RESOURCES CONSERVATION SERVICE

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

*John R. Plouton* 3/14/00  
DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*John R. Plouton* 3-6-00  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*John R. Plouton* 3/10/00  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland, 21041  
(410) 997-0286 Fax (301) 621-5211 Wash. (410) 997-0286 Fax



engineering	MMP				
illustration	RCJ				
approval					
project	97024				
date	DEC. 1998	BY	NO.	REVISION	DATE

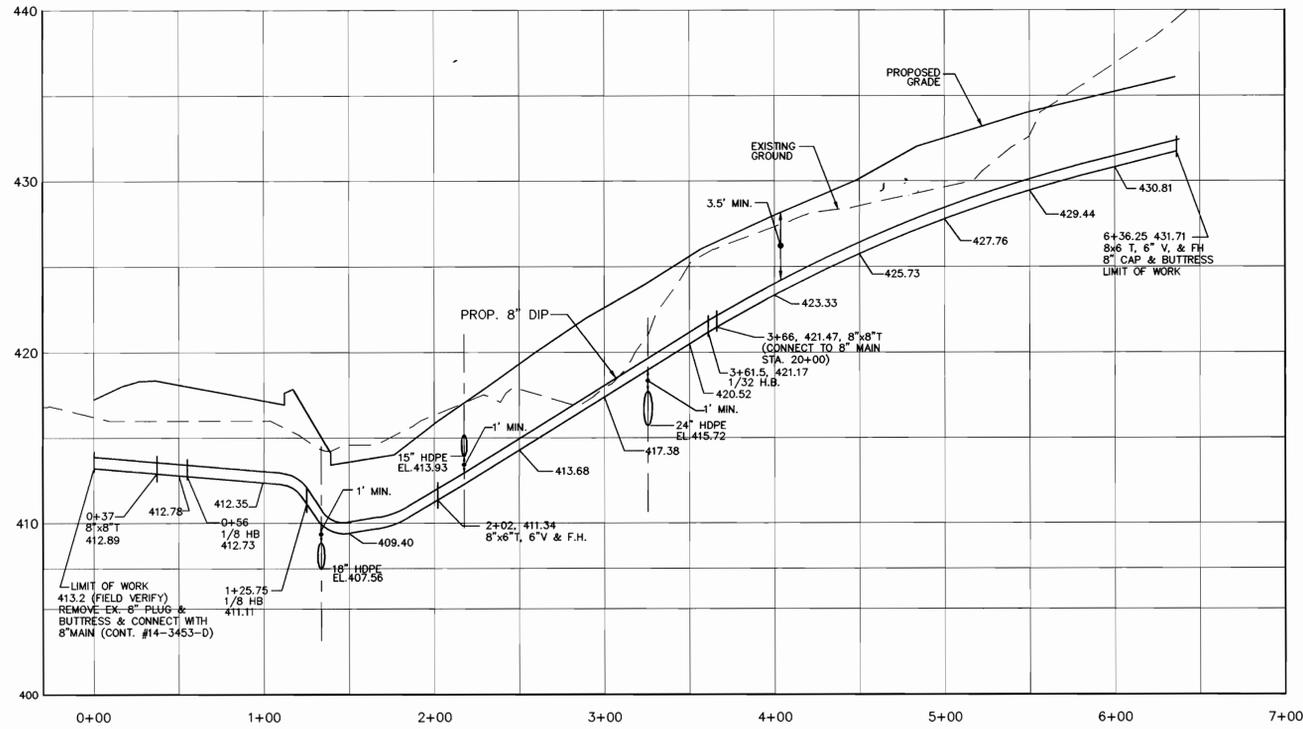
**WATER AND SEWER MAIN EXTENSION PLAN**

600' SCALE MAP NO. 17 & 24 BLOCK NO. 18, 5 & 6

**ELLCOTT WAL-MART**  
PARCEL - D  
CONTRACT No. 14-3790-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

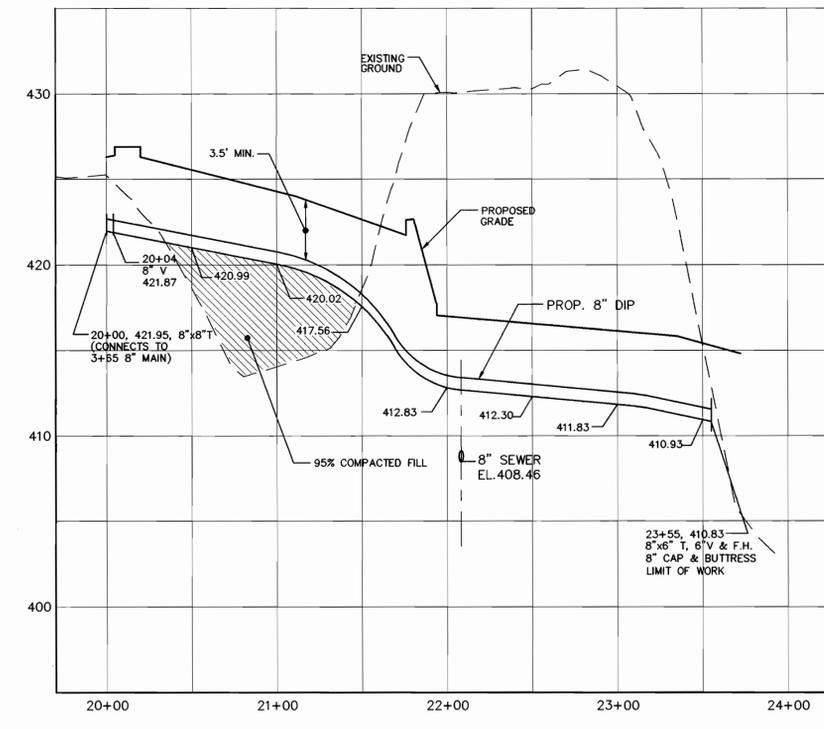
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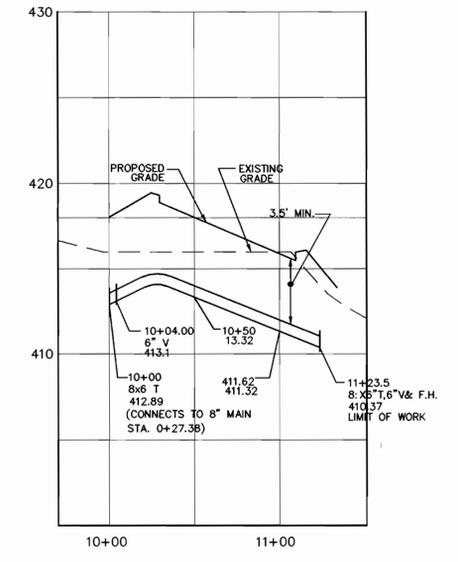
**8" WATER MAIN PROFILE - STA. 0+00 TO STA. 6+75.00**

SCALE= VER. 1"=5'  
HOR. 1"=50'



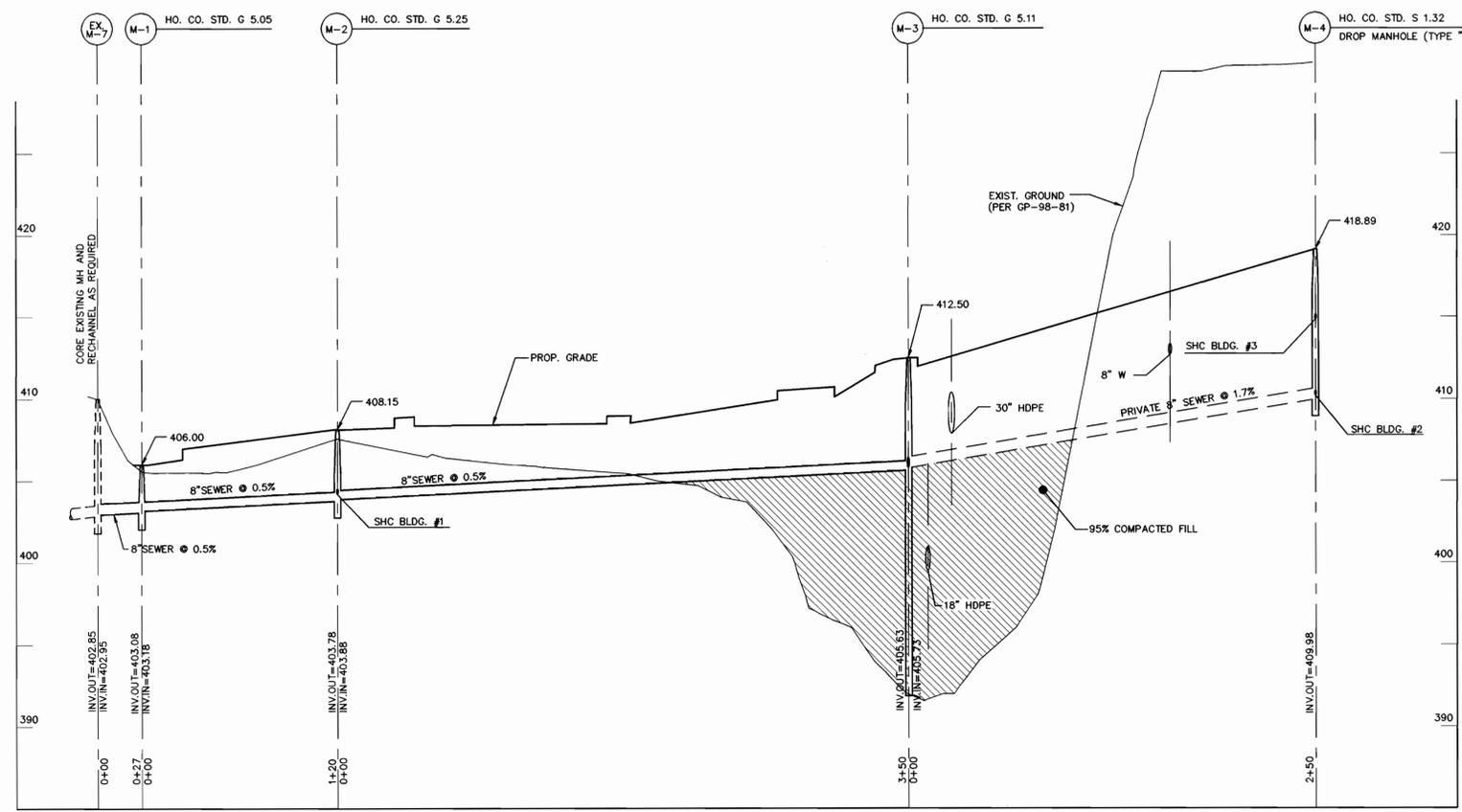
**8" WATER MAIN PROFILE - STA. 20+00 TO STA. 23+94.00**

SCALE= VER. 1"=5'  
HOR. 1"=50'



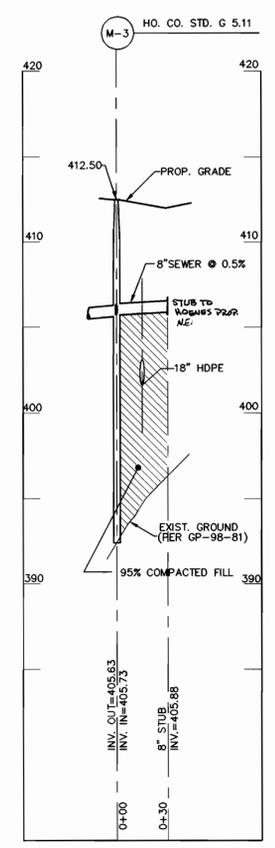
**8" WATER MAIN  
STA. 10+00 TO STA. 1+23.5**

SCALE= VER. 1"=5'  
HOR. 1"=50'



**8" SEWER MAIN PROFILE**

SCALE= VER. 1"=5'  
HOR. 1"=50'



**8" SEWER MAIN PROFILE**

SCALE= VER. 1"=5'  
HOR. 1"=50'



**OWNER/DEVELOPER**

ELLCOTT WAL-MART PARCEL D  
LIMITED PARTNERSHIP  
1205 YORK ROAD, PENTHOUSE  
LUTHERVILLE, MD 21093  
(410) 825-8400

G:\97024\DWG\SITE-3\W-PROF-R.DWG

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
3-6-00  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
3/10/00  
DATE

**MILDENBERG,  
BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21043  
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



engineering	MMP				
illustration	MMP				
approval					
project	97024				
date	JAN., 00	BY	NO.	REVISION	DATE

**WATER AND SEWER  
PROFILES**  
DATE 600' SCALE MAP NO. 17 & 24 BLOCK NO. 18, 5 & 6

**ELLCOTT WAL-MART  
PARCEL - D**  
CONTRACT No. 14-3790-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

scale  
1"=50'  
**3 OF 3**