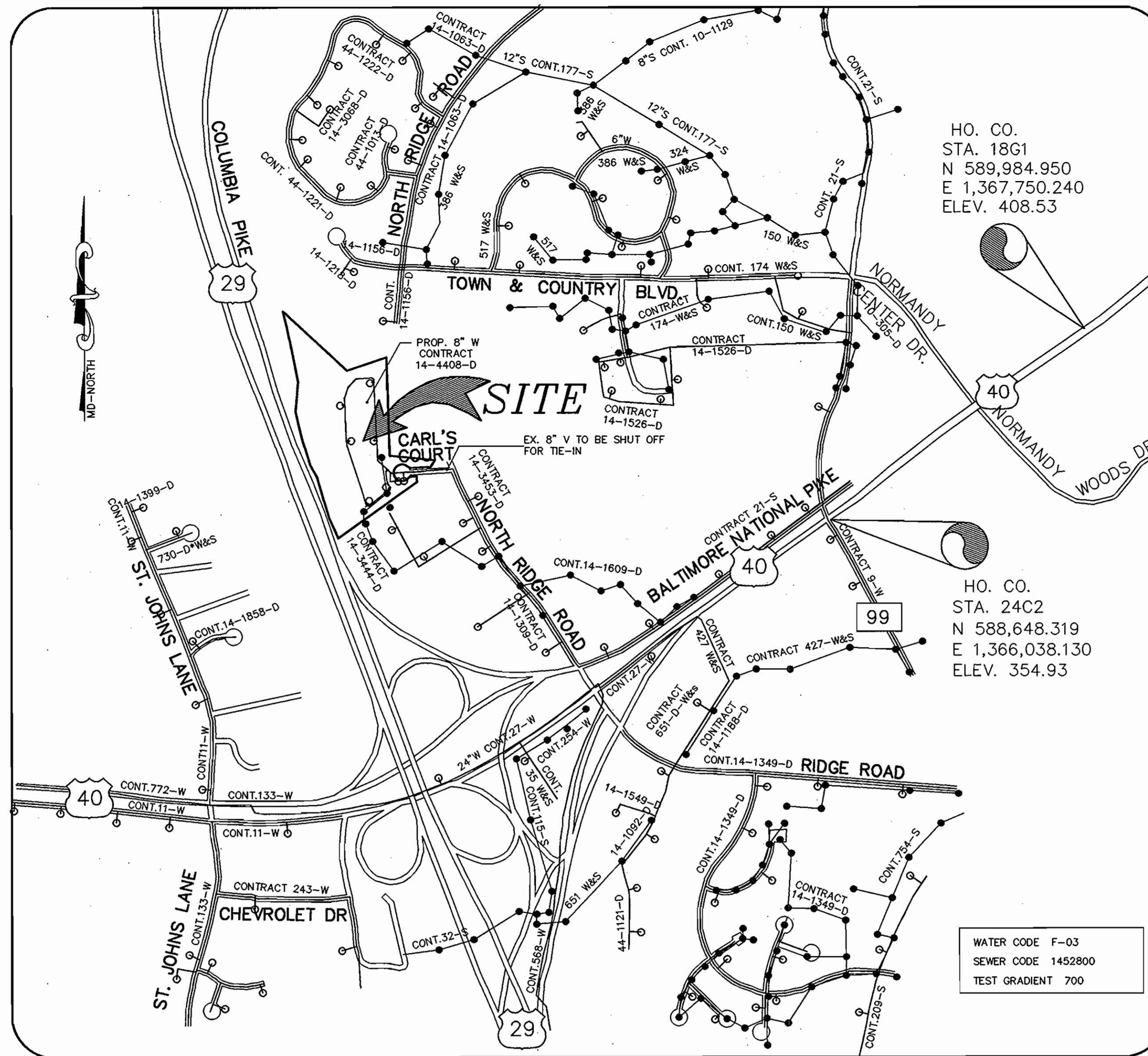


QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH	4			
8" SEWER MAIN	540 L.F.			
4" SEWER HOUSE CONNECTION	140 L.F.			
# SEWER HOUSE CONNECTIONS	2			
8" WATER	2,170 L.F.			
F.H.	6			
# WHC	2			
6" WHC	140 L.F.			
8" X 8" T	1			
8" X 6" T&V	6			
8" V	4			
1/8 HB	10			
1/13 HB	4			
6" V	2			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER SDP-06-94



VICINITY MAP

SCALE: 1" = 600'

TYPE OF BUILDING	COMMERCIAL, OFFICE BUILDINGS
No. OF UNITS	2
No. OF WATER HOUSE CONNECTION	2
No. OF SEWER HOUSE CONNECTIONS	2
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO

**CONTRACT No. 14-4408-D
EXECUTIVE CENTER
ELLCOTT CITY WAL - MART
PARCEL - D
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

GENERAL NOTES

- 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.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON FEBRUARY 2003 BY WINGS AERIAL MAPPING SUPPLEMENTED BY TOPOGRAPHIC SURVEY PERFORMED BY MILDENBERG BOENDER & ASSOCIATES IN APRIL 2002.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS: 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. 18G1 AND NO. 24C2. ALL VERTICAL CONTROLS ARE BASED ON NAVD '29. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO.CO. GEODETIC CONTROL STA. 18G1 & 24C2.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 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 OWNED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES. 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.
- 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 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
AT&T1-800-252-1133
BGE(CONSTRUCTION SERVICES).....410-850-4620
BGE(EMERGENCY).....410-685-1400
BUREAU OF UTILITIES.....410-313-4900
COLONIAL PIPELINE CO.....410-795-1390
STATE HIGHWAY ADMINISTRATION.....410-531-5533
VERIZON.....1-800-743-0033/410-224-9210
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATED. 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 DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.

- WATER**
- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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.

- SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATER TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATED THAT THE CELLAR CANNOT BE SERVED.

INDEX OF DRAWINGS

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

OWNER/DEVELOPER

NOTE: THIS CONTRACT REPLACES CONTRACT # 14-3490-D

ELLCOTT WAL - 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 PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

John May 10/19/06
DEVELOPER'S SIGNATURE DATE
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.

R. JAGG HIKMAT, P.E. 10/18/06
ENGINEER'S SIGNATURE DATE
ENGINEER'S NAME

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.
Jim Murphy 10/19/06
TDA-NATURAL RESOURCES CONSERVATION SERVICES DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION DISTRICT.
John K. Robertson 10/19/06
HOWARD SCD DATE

PLAN REFERENCE NUMBERS
SDP-06-094

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0286 Balt. (301) 621-5521 Wash. (410) 997-0288 Fax



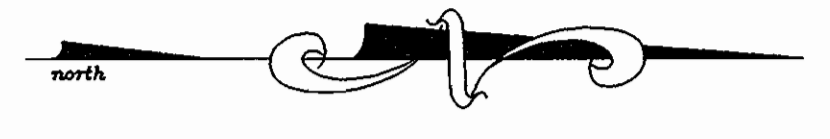
engineering	MMM				
illustration	MMM				
approval					
project	04-038				
date	SEP.2006	BY	NO.	REVISION	DATE

TITLE SHEET

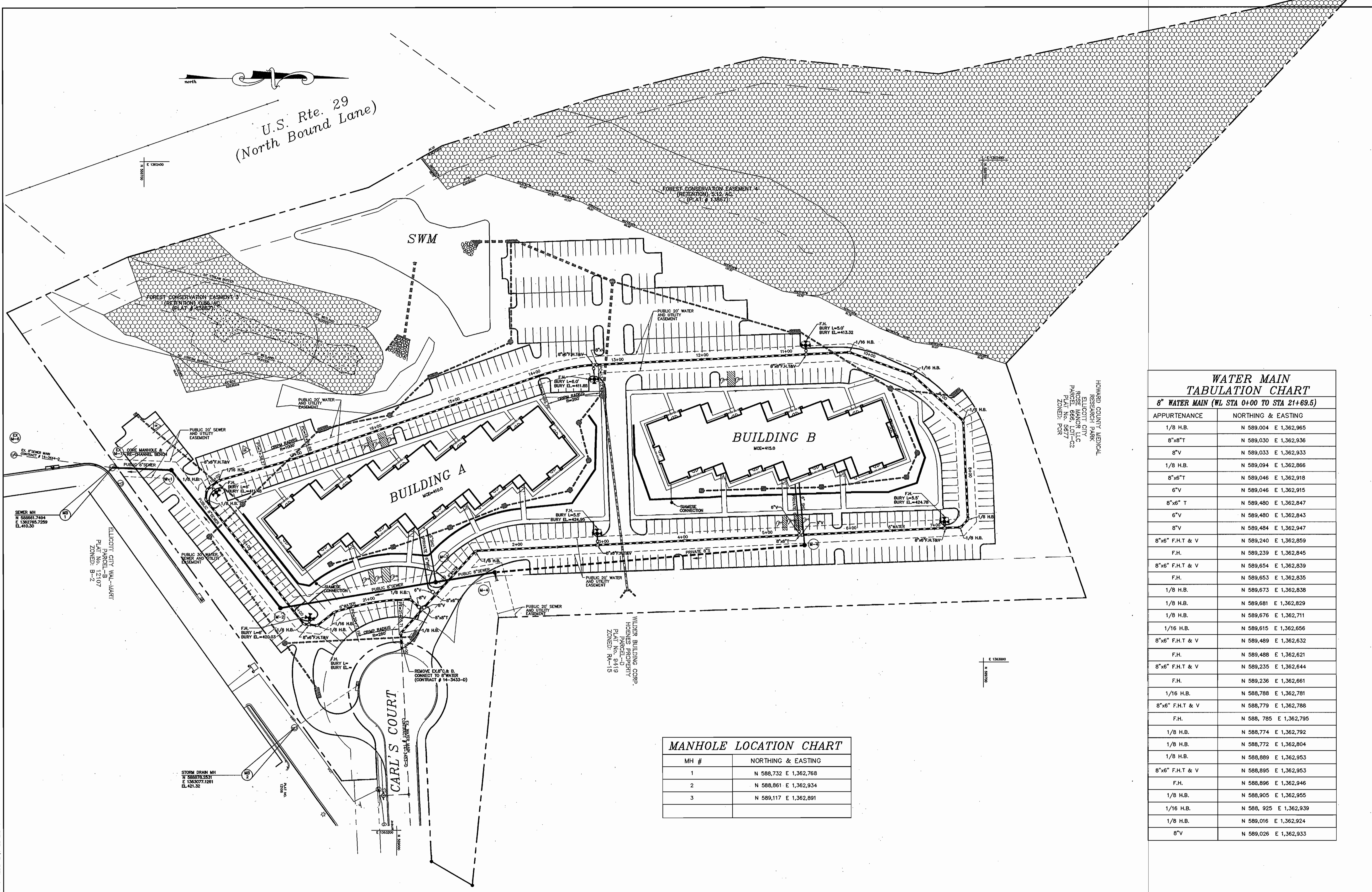
600' SCALE MAP NO.17 & 24 BLOCK NO.18, S & 6

EXECUTIVE CENTER
ELLCOTT CITY WAL - MART
PARCEL - D
CONTRACT No. 14-4408-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
AS SHOWN
1 OF 3



U.S. Rte. 29
(North Bound Lane)



HOWARD COUNTY MEDICAL
RESEARCH PARK
ELLICOTT CITY
ROSE WALKER LLC
PARCEL 666, LOT C-2
PLAT NO. 5977
ZONING: P-15

**WATER MAIN
TABULATION CHART**

8" WATER MAIN (WL STA 0+00 TO STA 21+69.5)

APPURTENANCE	NORTHING & EASTING
1/8 H.B.	N 589,004 E 1,362,965
8"x8" T	N 589,030 E 1,362,936
8" V	N 589,033 E 1,362,933
1/8 H.B.	N 589,094 E 1,362,866
8"x6" T	N 589,046 E 1,362,918
6" V	N 589,046 E 1,362,915
8"x6" T	N 589,480 E 1,362,847
6" V	N 589,480 E 1,362,843
8" V	N 589,484 E 1,362,947
8"x6" F.H.T & V	N 589,240 E 1,362,859
F.H.	N 589,239 E 1,362,845
8"x6" F.H.T & V	N 589,654 E 1,362,839
F.H.	N 589,653 E 1,362,835
1/8 H.B.	N 589,673 E 1,362,838
1/8 H.B.	N 589,681 E 1,362,829
1/8 H.B.	N 589,676 E 1,362,711
1/16 H.B.	N 589,615 E 1,362,656
8"x6" F.H.T & V	N 589,489 E 1,362,632
F.H.	N 589,488 E 1,362,621
8"x6" F.H.T & V	N 589,235 E 1,362,644
F.H.	N 589,236 E 1,362,661
1/16 H.B.	N 588,788 E 1,362,781
8"x6" F.H.T & V	N 588,779 E 1,362,788
F.H.	N 588,785 E 1,362,795
1/8 H.B.	N 588,774 E 1,362,792
1/8 H.B.	N 588,772 E 1,362,804
1/8 H.B.	N 588,889 E 1,362,953
8"x6" F.H.T & V	N 588,895 E 1,362,953
F.H.	N 588,896 E 1,362,946
1/8 H.B.	N 588,905 E 1,362,955
1/16 H.B.	N 588,925 E 1,362,939
1/8 H.B.	N 589,016 E 1,362,924
8" V	N 589,026 E 1,362,933

MANHOLE LOCATION CHART

MH #	NORTHING & EASTING
1	N 588,732 E 1,362,768
2	N 588,861 E 1,362,934
3	N 589,117 E 1,362,891

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert B. Bunker
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Walter
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**MILDENBERG,
BOENDER & ASSOC., INC.**
Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



engineering	MMP				
illustration	MMP				
approval					
project	04-038				
date	OCE 2006	BY	NO.	REVISION	DATE

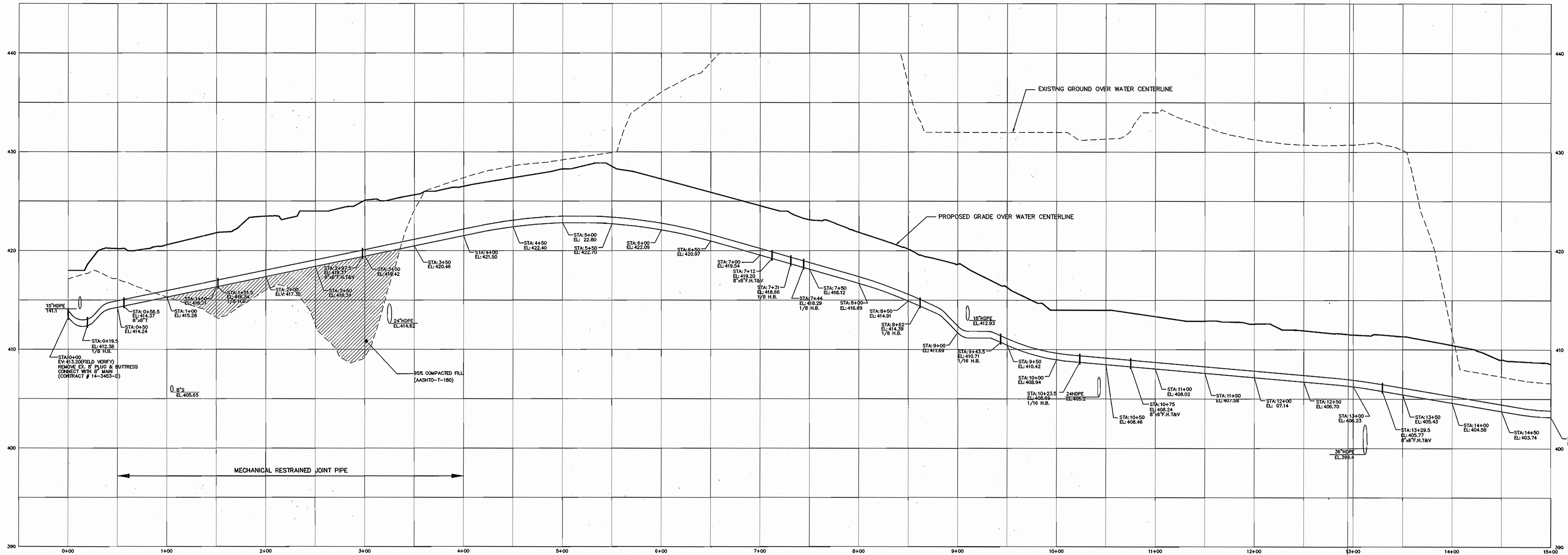
**WATER AND SEWER
MAIN EXTENSION
PLAN**

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

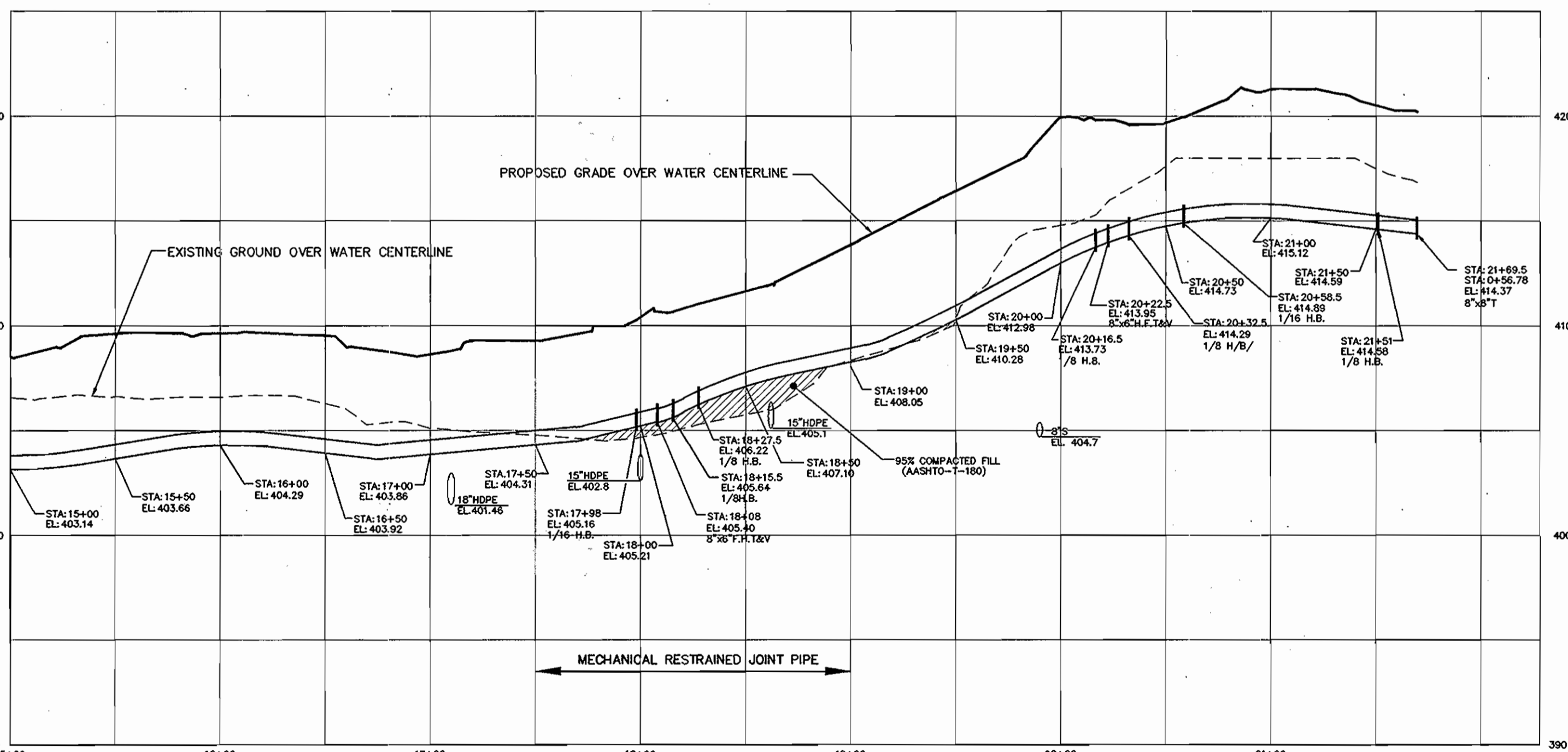
EXECUTIVE CENTER
ELLICOTT CITY WAL-MART
PARCEL - D
CONTRACT No. 14-4408-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
1"=50'
2 OF 3

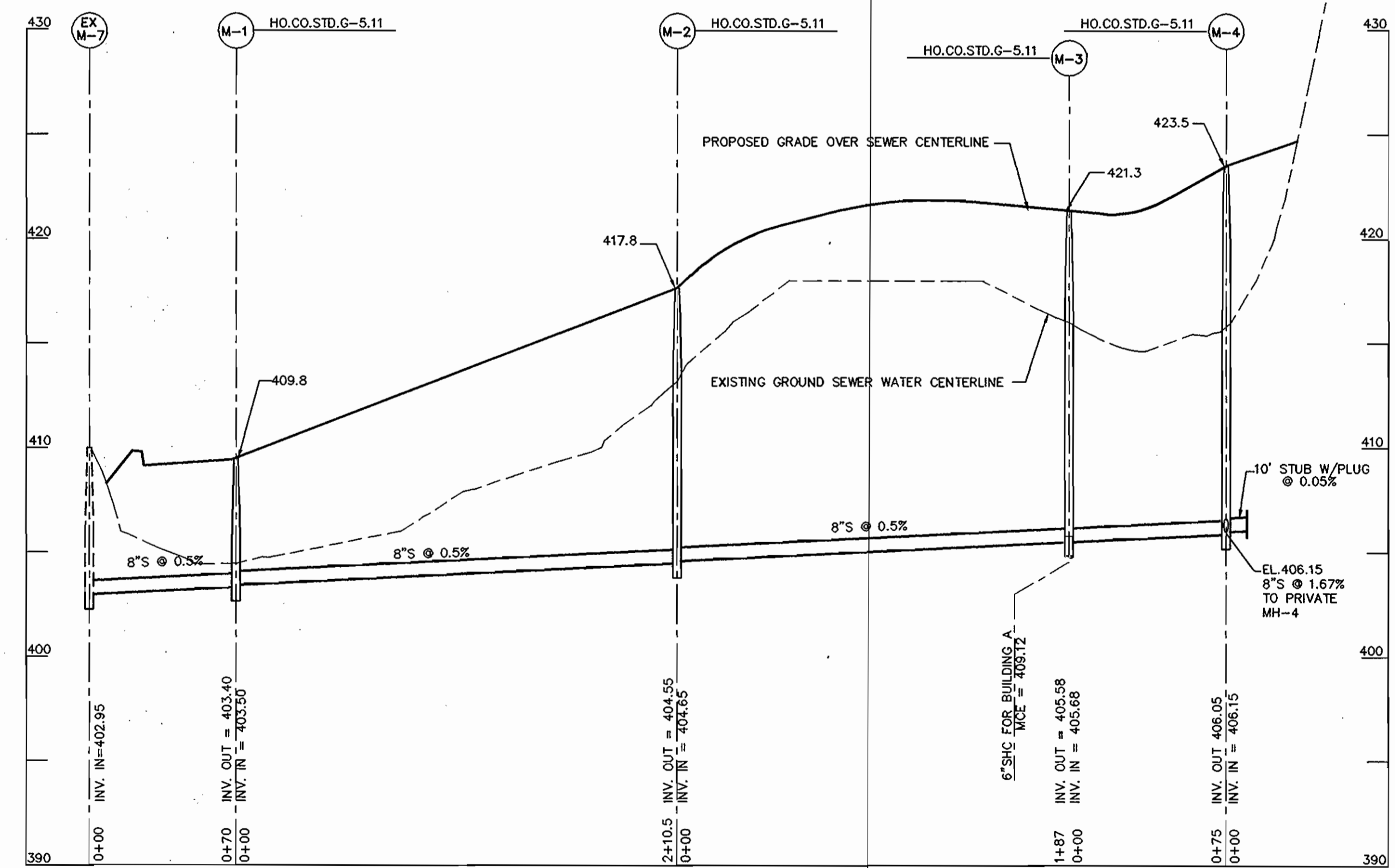
H: 104-038 (DWG) W-5-REDLINE (SHEET) D.WG



8" WATER MAIN PROFILE



8" WATER MAIN PROFILE



8" SEWER MAIN PROFILE

PL: 04-038 (DWG) W-5 WATER-PROFILES

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert M. Benjamin 10-27-06
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Michael J. Bennett 10/26/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 987-0296 Ball. (301) 621-5521 Wash. (410) 987-0298 Fax.



engineering	MMM				
illustration	MMM				
approval					
project	04-038				
date	OCT.2006	BY	NO.	REVISION	DATE

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

EXECUTIVE CENTER
ELLCOTT CITY WAL-MART
PARCEL - D
CONTRACT No. 14-4408-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

scale
HOR. 1"=50'
VER. 1"=5'
3 OF 3