

OWNER: EMICON, LLC P.O. BOX 417 ELLICOTT CITY, MD 21041

BENCH MARKS NAD '83 ELEV. 385.67 HO. CO. 24BA STAMPED DISC ON CONCRETE MONUMENT BEING 23' NORTH OF A TRAFFIC SIGNAL POLE, 5.6' SOUTHWEST OF THE PC OF THE EDGE OF PAVING OF JOHNS HOPKINS ROAD AND 3.3' SOUTH OF THE EDGE OF PAVING OF JOHNS HOPKINS ROAD. N 586,783.250 E 1,359,211.698 HO. CO. 24CA ELEV. 398.34 STAMPED DISC ON CONCRETE MONUMENT BEING 8' EAST OF BGE POLE #555388, 13.3' SOUTH OF LEFT REAR CORNER OF AN INLET AND 2.7' NORTH OF THE EDGE OF PAVING OF HAMMOND PARKWAY. E 1,361,6_{34,312} N 586,506.183

GENERAL NOTES

1. APPROXIMATE LOCATION 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

PART I

- 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN MAY 2003 BY FREDERICK WARD ASSOCIATES AND SUPPLEMENTED BY BENCHMARK ENGINEERING, INC IN NOVEMBER 2004.
- 3. 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. , No. AND No. .
 ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED

PROVIDED ON THE DRAWINGS ARE

- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE CWNER 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 JAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

1-800-252-1133 410-850-4620 BGE (CONSTRUCTION SERVICES) 410-685-1400 BGE (EMERGENCY) 410-313-4900 BUREAU OF UTILITIES COLONIAL PIPELINE CO 410-795-1390 MISS UTILITY 1-800-257-7777 STATE HIGHWAY ADMINISTRATION 410-531-5533 1-800-743-0033/410-224-9210

- 9. 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.
- 10. THE 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.
- 410-313-7450 AT LEAST FIVE (5) 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(a) OF THE HOWARD COUNTY CODE.



VICINITY MAP SCALE: 1"=600'

NUMBER OF WHC'S:

TREATMENT PLANT: LITTLE PATUXENT,

WATER RECLAMATION PLANT

DRAINAGE AREA: ...

PART II - WATER

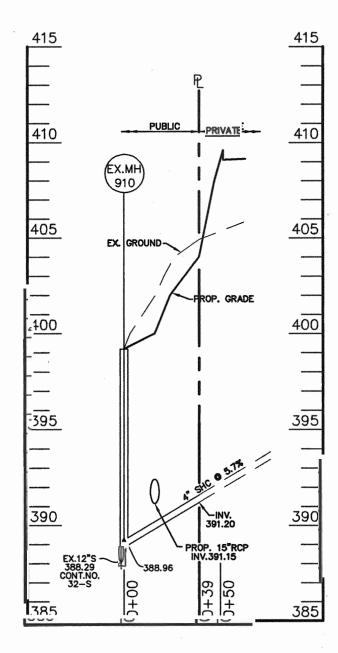
SEWE'R CODE: ____1403700

TEST GRADIENT: _____700

- 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE: NOTED. 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVIER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHELWISE PROVIDED FOR ON THE DRAWINGS.
- 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCURACY WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCURDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT GPERATE ANY WATER WAIT VALVES ON THE EXISTING

PART III - SEWER

- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.S. UNLESS OTHERWISE NOTED. 2. ALL MANHOLES SHALL BE 4' - 0" INSIDE $I_{NAMETER}$ UNLESS OTHERWISE NC)TED.
- 3. FORCE MAINS SHALL BE D.I.P. ONLY UNLES OTHERWISE NOTED. 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK WANHOLES ONLY.
- 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATER TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1 -0 ABOVE FINISHED GRADE UNLESS CHILDWISE NOTED ON THE DRAWINGS.
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE



4" PUBLIC SEWER VERTICAL: 1"= 5'

BLOCK 5

SCALE HORIZONTAL: 1"= 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

SITE DEVELOPEMENT PLANS SDP-05-29

EDIMEN CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS I PER

HOWARD SOIL CONSERVATION DISTRICT:

AND IMEETS TECHNICAL REQUIREMENTS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

9.21.63

BENCHMARK ENGINEERS A LAND SURVEYORS A PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MAR YLAND 21043

FAX: 410-465-6644

1+00

0+00

0+50

PHONE: 410-465-6105

2 + 50

8" PUBLIC WATER MAIN

SCALE HORIZONTAL: 1"= 50' VERTICAL: 1"= 5'

DESIGN: MAN DRAFT: MAN CHK: DAM DATE: 09-05 BY DATE 600 SCALE MAP NO. 24 **REVISIONS**

4+50

4+00

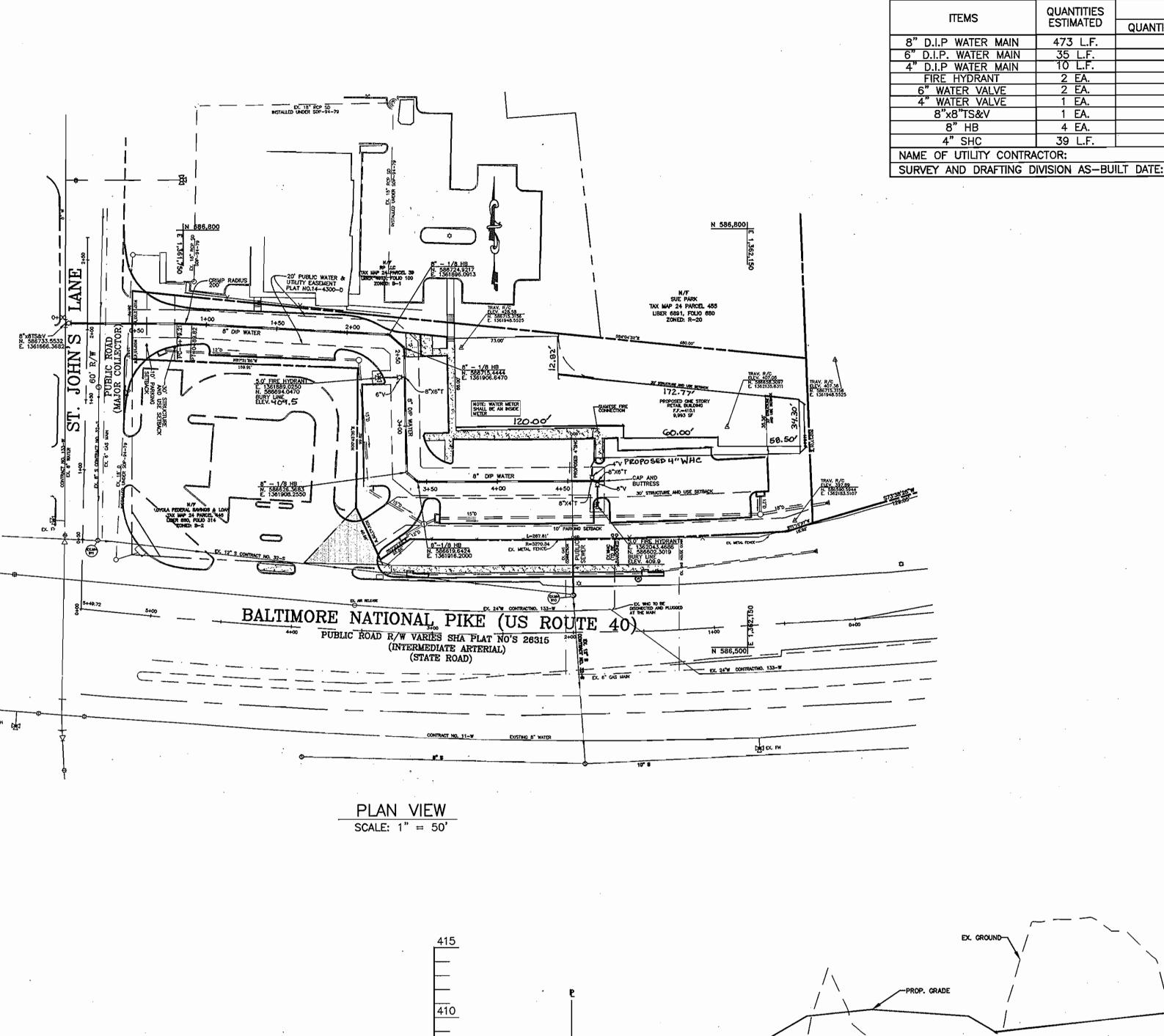
3 + 50

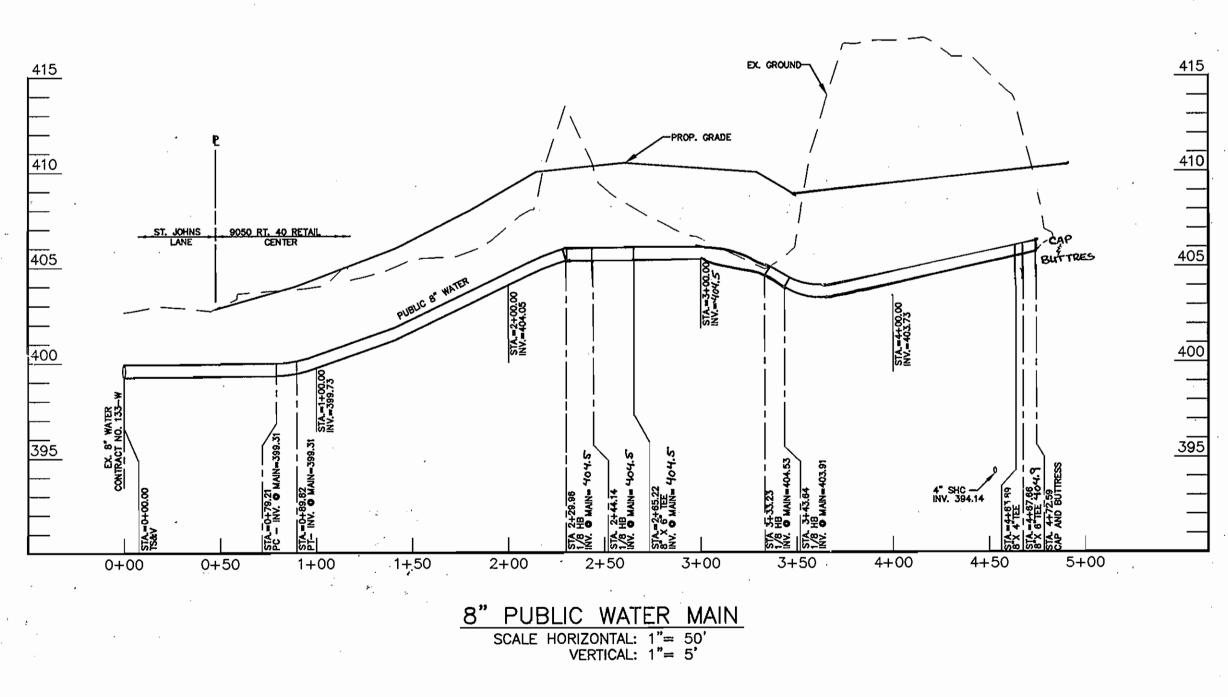
PUBLIC WATER AND SEWER PLAN 9050 ROUTE 40 RETAIL CENTER PARCEL 'A'

TAX MAP 24 - GRID 5 PARCEL 38 AND 96 2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLANI D CONTRACT NO. 14-4300-D

SCALE: AS SHOWN SHEET NO. 1 OF 1





BENCH MARKS NAD '83 HO. CO. 24BA ELEV. 385.67 STAMPED DISC ON CONCRETE MONUMENT BEING 23' NORTH OF A TRAFFIC SIGNAL POLE, 5.6' SOUTHWEST OF THE PC OF THE EDGE OF PAVING OF JOHNS HOPKINS ROAD AND 3.3' SOUTH OF THE EDGE OF PAVING OF JOHNS HOPKINS ROAD. N 586,783.250 E 1,359,211.698 HO. CO. 24CA ELEV. 398.34 STAMPED DISC ON CONCRETE MONUMENT BEING 8' EAST OF BGE POLE #555388, 13.3' SOUTH OF LEFT REAR CORNER OF AN INLET AND 2.7' NORTH OF THE EDGE OF PAVING OF HAMMOND PARKWAY. N 586,506.183 E 1,361,634.312

GENERAL NOTES

- 1. APPROXIMATE LOCATION 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.
- 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN MAY 2003 BY FREDERICK WARD ASSOCIATES AND SUPPLEMENTED BY BENCHMARK ENGINEERING, INC IN NOVEMBER 2004.
- 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE

PART I

- REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS No. , No. AND No. . ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. 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 BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

1-800-252-1133 410-850-4620 BGE (CONSTRUCTION SERVICES)
BGE (EMERGENCY) 410-685-1400 410-313-4900 BUREAU OF UTILITIES 410-795-1390 COLONIAL PIPELINE CO MISS UTILITY 1-800-257-7777

- STATE HIGHWAY ADMINISTRATION 410-531-5533 1-800-743-0033/410-224-9210 9. 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.
- 10. THE 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.
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE (5) WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

A CONTRACTOR OF THE PARTY OF TH

> VICINITY MAP SCALE: 1"=600'

TYPE OF BUILDING:

NUMBER OF SHC'S: . NUMBER OF WHC'S: .

DRAINAGE AREA: ..

TREATMENT PLANT:

NUMBER OF BUILDABLE PARCELS:

..... LITTLE PATUXENT

WATER RECLAMATION PLANT

PART II - WATER

1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS

OTHERWISE NOTED. 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

WATER AND SEWER COUNTY CODE

WATER CODE: ____FO6

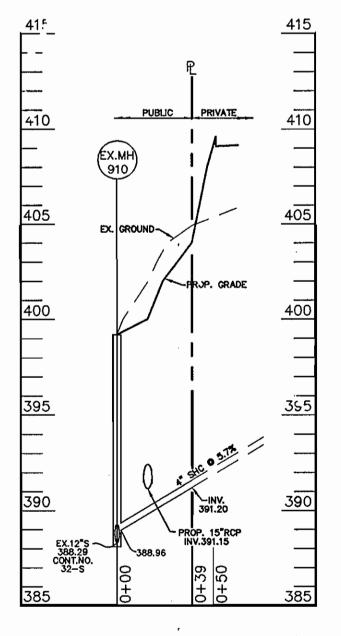
TEST GRADIENT: _____700

SEWER CODE: ____1403700

- 4. ALL FITTINGS SHALL BE BUTTRESSED OF THE SED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS, ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORD NCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

PART III - SEWER

- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED. 2. ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 3. FORCE MAINS SHALL BE D.I.P. ONLY UNLESS OTHERWISE NOTED.
- 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1"-6" ABOVE FINISHED GRADE UNLESS OTHERWISE
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE



4" PUBLIC SEWER SCALE HORIZONTAL: 1"= 50' VERTICAL: 1"= 5'

OWNER: EMICON, LLC P.O. BOX 417 ELLICOTT CITY, MD 21041

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

9.21.65

BENCHMARK ◆ ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

ENGINEERING, INC. FAX: 410-465-6644

DESIGN: MAN DRAFT: MAN EDD 1 REVISE 8"WATERMAIN & REVISE BIDG & 4" PRO.WIK & BLOG DIM. DATE 600 SCALE MAP NO. 24 **REVISIONS**

QUANTITIES

QUANTITIES

QUANTITIES

ESTIMATED

1 EA.

4 EA.

39 L.F.

AS-BUILT

TYPE

MANUF./SUPPLIER

PUBLIC WATER AND SEWER PLAN

BLOCK 5

9050 ROUTE 40 RETAIL CENTER PARCEL 'A'

AS SHOWN SHEET NO. 1 OF 1

SCALE:

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4300-D

SITE DEVELOPEMENT PLANS SDP-05-29

HOWARD SOIL CONSERVATION DISTRICT:

AND MEETS TECHNICAL REQUIREMENTS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT