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12" & 8" WATER MAIN RE-ROUTE

for

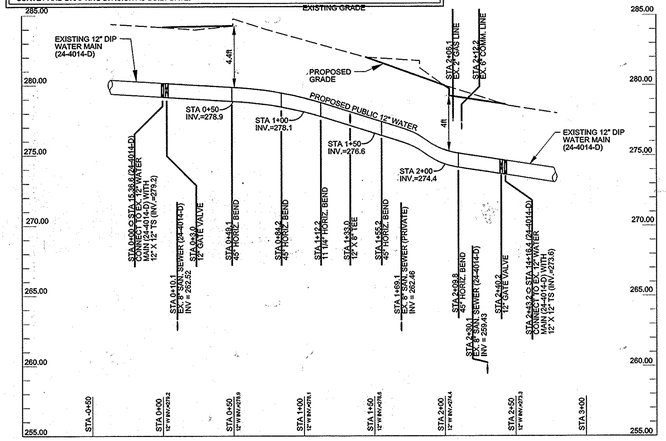
EMERSON- CAMPUS VCP

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

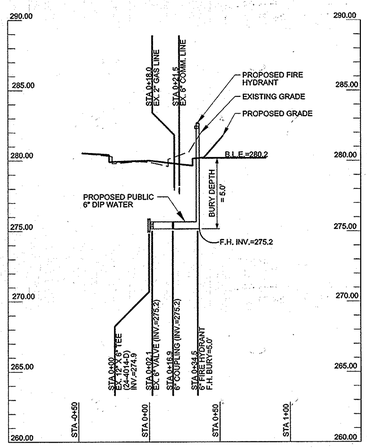
CONTRACT NO. 44-4957-D

QUANTITIES

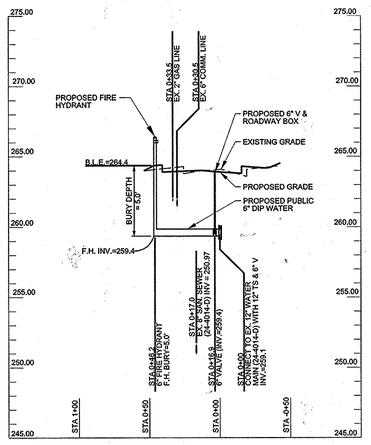
ITEMS	QUANTITIES ESTIMATED	AS-BUILT QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
12" DIP - CL 54	243'			
8" DIP - CL 54	19'			
6" DIP - CL 54	64'			
12"x12" TS & V	2			
12"x8" TEE	1			
12"x6" TS & V	1			
8" VALVE	1			
12" INSERTION VALVE	2			
45° BEND-12"	4			
11 1/4" BEND - 12"	1			
45° BEND - 8"	1			
12" CAP	2			
8" CAP	1			
6" CAP	1			
6" COUPLING	1			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				



1 12" DIP WATER MAIN RELOCATION
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



2 6" DIP WATER LINE EXTENSION TO NEW FH
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



3 6" DIP WATER LINE TO NEW FH
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

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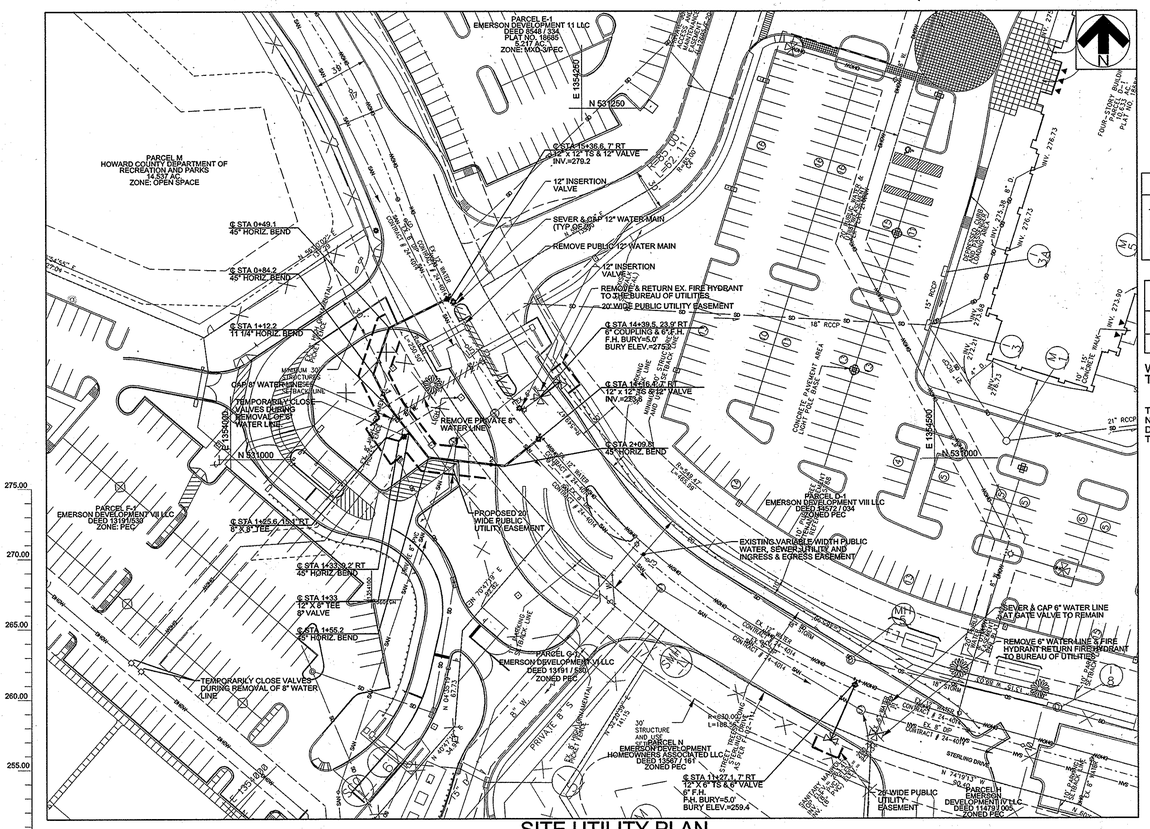
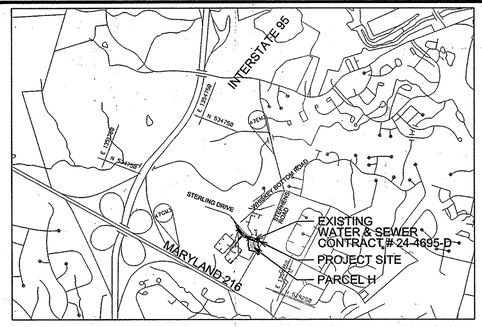
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

John R Robertson 4/29/16
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE APPROVED SDP-16-005 PLANS.



SITE UTILITY PLAN
SCALE: 1"=50'



LOCATION MAP
SCALE 1"=600'

HOWARD COUNTY GEODETIC COORDINATES	
BENCH MARK ID: 47GM3	BENCH MARK ID: 47EM3
NORTHING: 531620.07	NORTHING: 532973.07
EASTING: 1352684.71	EASTING: 1356218.71
ELEVATION: 91.734	ELEVATION: 84.447

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
PARCEL H	9005 STERLING DRIVE

WATER ZONE: 400
TEST GRADIENT: 550

TYPE OF BUILDING:	OFFICE
NO. OF PARCELS:	N/A
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER

SEQUENCE OF CONSTRUCTION

1. INSTALL 12" TAPPING SLEEVES AND VALVES ON 12" WATER MAIN (CONTRACT NO. 24-4014-D) AT STATIONS 14+16.4 AND STA 15+36.6.
2. INSTALL NEW 12" WATER MAIN BETWEEN STATIONS 14+16.4 AND STA 15+36.6. INSTALL TEES, BENDS AND ASSOCIATED VALVES ALONG WATER MAIN REROUTE.
3. CONNECT 8" PRIVATE WATER LINE AT PARCEL F-1 TO 12" X 8" TEE PLACED ALONG REROUTED WATER MAIN.
4. INSTALL 12" INSERTION VALVES AS SHOWN IN PLAN VIEW. CLOSE VALVES. ALSO CLOSE 8" VALVES TO PARCEL F-1 AS SHOWN.
5. SEVER & CAP EXISTING 12" WATER MAIN (CONTRACT NO. 24-4014-D) AND PRIVATE 8" WATER LINE. REMOVE SEGEMENTS OF 12" AND 8" WATER LINES, AS SHOWN.
6. CLOSE VALVE AND REMOVE EXISTING FIRE HYDRANT AT STA 14+39.5 AND RETURN TO THE BUREAU OF UTILITIES. EXTEND 6" DIP WATER LINE AT STA 14+39.5 AND INSTALL NEW FIRE HYDRANT.
7. OPEN VALVE AND RESTORE SERVICE TO FIRE HYDRANT AT STA 14+39.5.
8. INSTALL 12" X 6" TAPPING SLEEVE AND VALVE AT STA 11+27.1. EXTEND 6" DIP WATER LINE TO SOUTH SIDE OF STERLING DRIVE AND INSTALL NEW FIRE HYDRANT.
9. CLOSE GATE VALVE AT STA 10+99.5. SEVER AND CAP 6" WATER LINE IMMEDIATELY AFTER VALVE. REMOVE 6" DIP WATER LINE AND FIRE HYDRANT. RETURN FIRE HYDRANT TO THE BUREAU OF UTILITIES.
10. THE SHUT-DOWN OF WATER SERVICE SHALL BE COORDINATED WITH THE HOWARD COUNTY, BUREAU OF UTILITIES, IF NECESSARY. NOTIFICATION SHALL BE GIVEN 5 DAYS PRIOR TO THE SHUT-DOWN AND ONE HOUR PRIOR TO THE SHUT-DOWN FOR CHANGES TO BE MADE TO THE WATER SUPPLY.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 45292 EXPIRATION DATE: 05/21/2016.

GENERAL NOTES

PART I - GENERAL

1. 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.
2. All horizontal controls are based on Maryland State Coordinates, NAD 83/91.
3. All vertical controls are based on NAVD 88.
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 bracing of additional poles, any cost incurred by the owner for the 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 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.
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 working days before starting work shown on these plans:

AT&T	1-800-252-1133
BGE (Contractor Services)	410-850-4620
BGE (Underground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1390
Miss Utility	1-800-257-777
State Highway Administration	410-531-5533
Verizon	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 working days before open cutting or boring/jacking of any County roads for laying waterlower 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.
12. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

PART II - WATER

1. All water mains shall be DIP Class 54 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 trees shall be strapped to trees.
4. All fittings shall be buttressed or anchored 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 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.
6. The contractor shall not operate any water main valves on the existing water system.
7. Tracer wire and continuity test stations shall be installed on all DIP and PVC water mains in accordance with the Howard County Design Manual.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
4/21/16
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
5-12-16
CHIEF, DEVELOPMENT ENGINEERING DIVISION M.G. DATE

REVITZ PROPERTY
#9005 STERLING DRIVE
OWNER/DEVELOPER: EMERSON DEVELOPMENT IV, LLC
ONE TEXAS STATION, SUITE 200 TIMONIUM, MD 21093
(443) 689-8000

JACOBS
1100 N.GLEBE RD., ARLINGTON, VA, 22201
(571) 216-1000

DES:	MGW
DRN:	MGW
CHK:	RAC
DATE	4/04/16

BY	NO.	REVISION	DATE

600 SCALE MAP NO. 47 BLOCK NO. 20

PROPOSED 12 INCH WATER MAIN RELOCATION

PARCEL H, D, E, F, G, O, Q
6TH ELECTION DISTRICT

REVITZ PROPERTY
STERLING DRIVE LAUREL, MARYLAND
CONTRACT NO. 44-4957-D

ZONE: PEC
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 1

44-4957-D

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