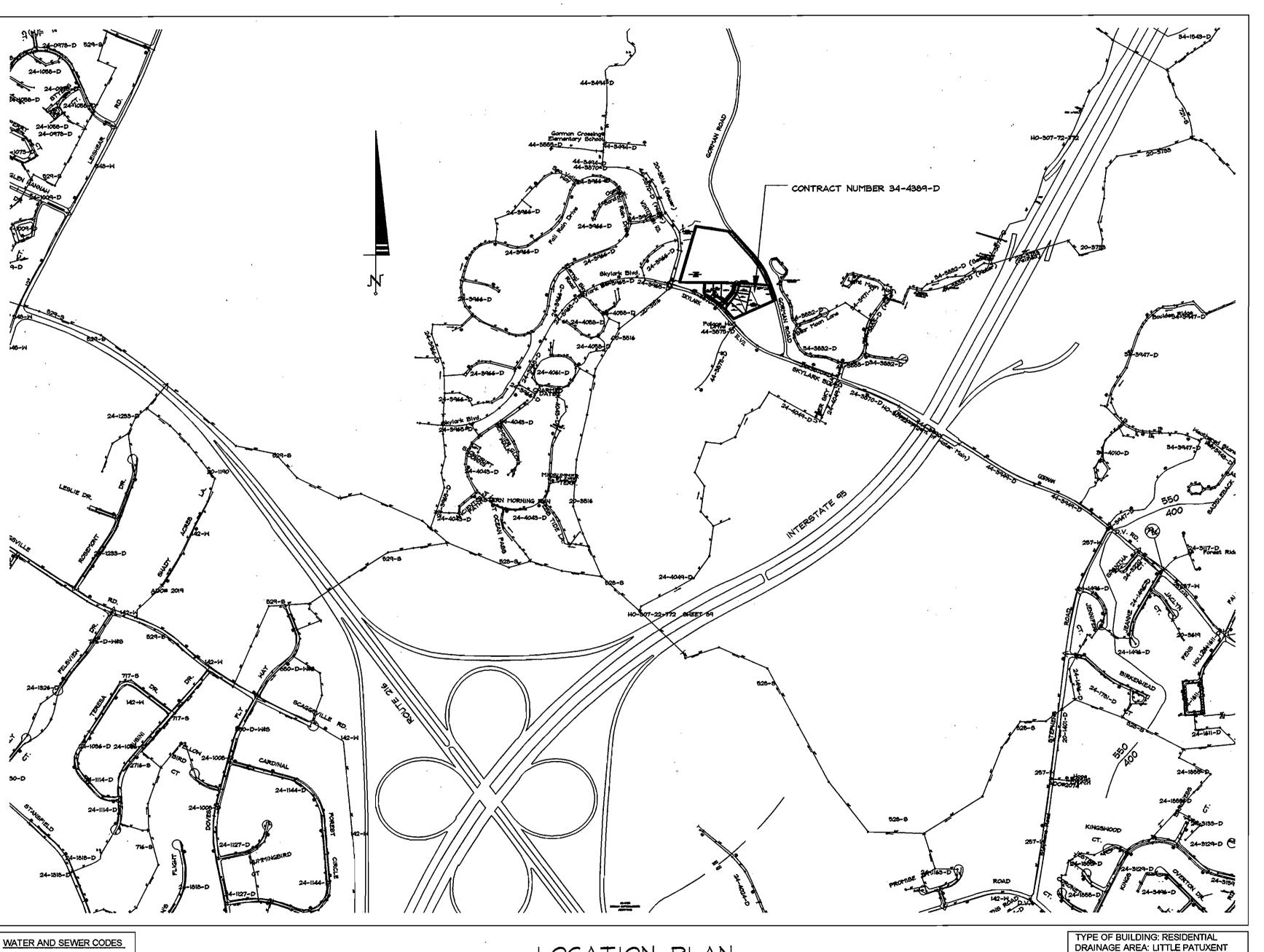
WATER AND SEWER CONSTRUCTION PLANS for EMERSON SECTION 2, PHASE 8A

CONTRACT NUMBER 34-4389-D 6TH ELECTION DISTRICT HOWARD COUNTY, MD



BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON F-07- 128 EVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEE'N TECHNICAL REQUIREMENTS. THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

WATER NO.: E-15

ZONE: 550

SEWER NO.: 7390000

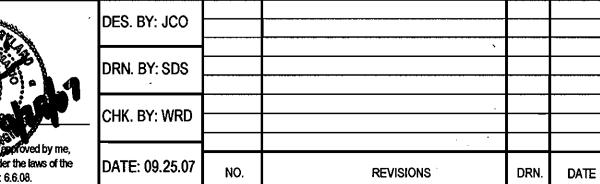
TEST GRADIENT: 700



192 East Main Street

estminster, MD 21157

I hereby certify that these do and that I am a duly licensed profess State of Maryland, License No. 21998, Expiration Date: 6.6.08.



COVER SHEET

BLOCK NO.:

TREATMENT PLANT: LITTLE PATUXENT

WASTE WATER TREATMENT PLANT

NUMBER OF BUILDABLE LOTS: 7

NUMBER OF SHC: 7

NUMBER OF WHC: 7

600 SCALE MAP NO.:

WATER & SEWER CONSTRUCTION PLANS **EMERSON**

AS SHOWN SECTION 2, PHASE 8A LOTS 1-4, 6-8 \$ OPEN SPACE LOTS 5 \$ 9 6th ELECTION DISTRICT SHEET HOWARD COUNTY, MARYLAND 1 of 2 CONTRACT NO. 34-4389-D

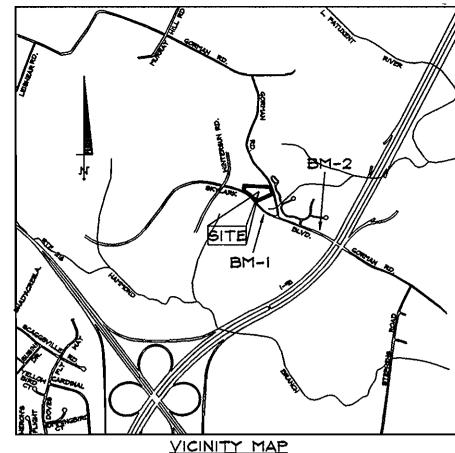
BENCHMARK

WATER AND SEWER PLAN AND PROFILE

DESCRIPTION

BENCHMARK #1 N. 536615.0157 1353679,1226 ELEV. 343,249

BENCHMARK #2 N. 536212.7456 1354833.6403 B.M. 47EB ELEV. 354.296



GENERAL NOTES

- a. 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
- b. Topographic field surveys were performed on March, 2006 by Demario Design Consultants, Inc. c. 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. 47DC \$ 47EB.
- d. All vertical controls are based on NAVD '88. e. All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- f. 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 owed by the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- g. 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.

 h. 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 in included on the drawings. Existing utilities in the vicinity of the proposed work for which construction operations at his own expense.
- i. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

AT 4 T:1-800-252-1133 BGE (Construction Services):410-850-4620 BGE (Emergency):410-685-1400
Bureau of Utilities:410-313-4900 Colonial Pipeline Company:410-795-1390 Miss Utility:1-800-257-7777 State Highway Administration:410-531-5533 Verizon:1-800-743-0033/410-224-9210

- j. 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.
- k. 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.
- 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(a) of the Howard County Code.

WATER GENERAL NOTES

- a. All water mains to be D.I.P. Class 52 unless otherwise noted. b. Tops of all water mains to have a minimum of
- 3'- 6" of cover unless otherwise noted. c. Valves adjacent to tees shall be strapped to tees d. All fittings shall be buttressed or anchored with
- concrete in accordance with the Standard Details unless provided on the drawings. e. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrante shall be restrained and buttressed with concrete in accordance with the Standard Details. The soil around the fire hydrant shall be
- compacted in accordance with Section 1000 and 1005 of the Standard Specifications. f. The contractor shall not operate any water main valves on the existing water system. a. All water house connections shall be for inside
- meter setting unless otherwise noted o plans or in specifications. h. For sprinkler system for all town homes or
- multi-family dwelling units should have a minimum of 11 connection with a 3/4" meter

SEWER GENERAL NOTES

- a. All sewer mains shall be DIP or P.V.C unless otherwise noted.
- b. All manholes shall be 4' 0" inside diameter unless otherwise noted.
- c. Force mains shall be D.I.P. only. d. Manholes shown with 12" and 16" walls are for brick manholes only.
- e. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight frame and cover is used, set top of frame !" - 6" above finished grade unless otherwise noted on the drawings.
- f. House(s) with the symbol "C.N.S." indicates that

DATE: SEPTEMBER 2008

SCALE:

		QUANTITIE	S	
ITEMS	QUANTITIES	AS-BUILT		
P	ESTIMATED	QUANTITIES	TYPE	SUPPLIER
8" SEWER MAIN	213'	213 L.F.	DIP, CL.54	GRIFFIN PIPE
SEWER MANHOLE	3	3EA.	PRECAST CONC.	AMERICAST
4" SHC/DHC	166'	164 L.F.	DIP, CL.54	GRIFFIN PIPE
8" WATER MAIN	254'	254 L.F.	DIP, CL.54	GRIFFIN PIPE
8"x12" T.S.&V.	1	IEA.	DIP, STAINLESS	JCM INDUSTRIES
1" WHC	173'	173 L.F.	COPPER	READING TUBE
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LOCATION PLAN SCALE: 1"=600"

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