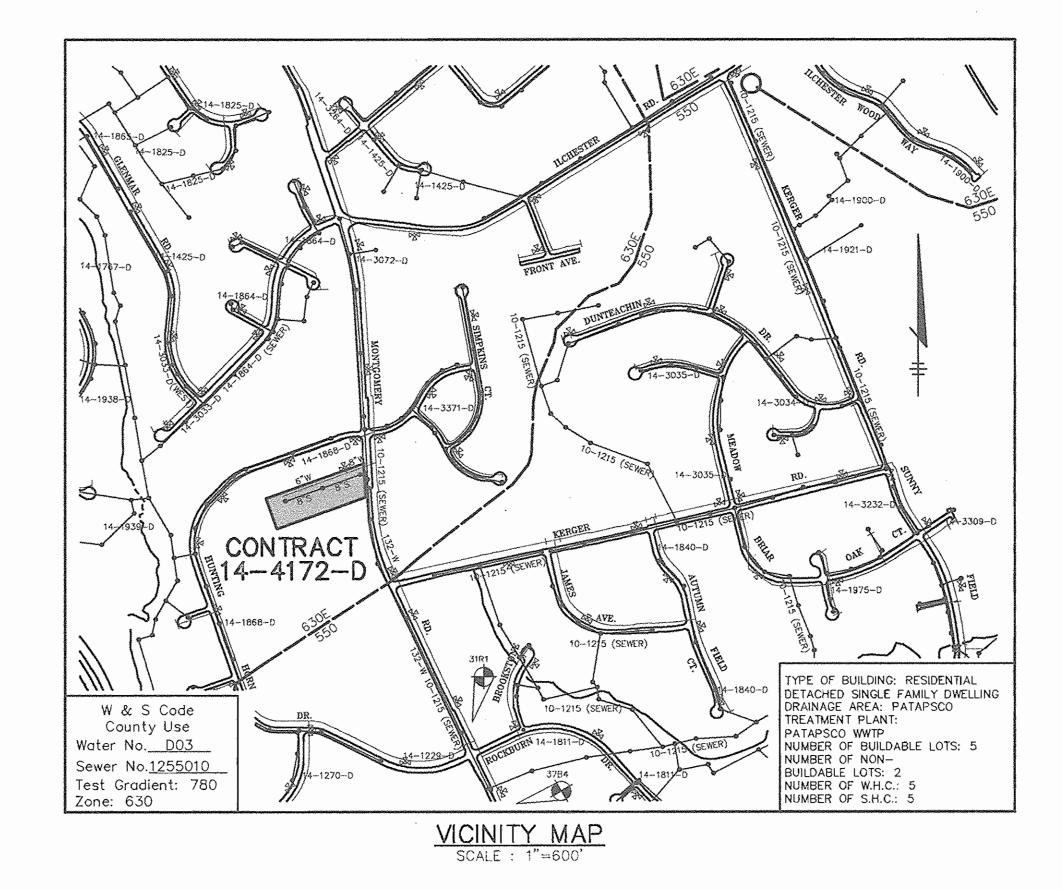
WATER AND SEWER EXTENSIONS

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4172-D



BENCH MARK

CONTROL STATION 31R1 ELEVATION 401.748 N 565,303.465 E 1,372,517.678

CONTROL STATION 37B4 ELEVATION 402.115 N 563,928.548 E 1,373,109.059

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. 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 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 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 Detail 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 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.
- 8. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

BGE (Contractor Services) BGE (Underground Damage Control) Bureau of Utilities Colonial Pipeline Co. Miss Utility State Highway Administration

410-850-4620 410-787-9068 410-313-4900 410-795-1390 1-800-257-7777

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 ot 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 NOTES

- 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.
- 4. All fittings shall be buttressed or anchored with concrete in accordance with the 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 ground the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.

6. The contractor shall not operate any water main valves on the existing water system.

SEWER NOTES

- 1. All sewer mains shall be D.I.P. and 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.
- 4. Manholes shown with 12" and 16" walls are for brick manholes only.
- 5. Manhales designated W.T. in plan and prafile shall have watertight frame and covers, Standard Detail 65.52. Where watertight manhole frames and covers is used, set top of frame 1"-6" above finished grade unless otherwise noted on the drawings.
- 6. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

DATE: DEC. 2006

QUANTITIES

QUANTITIES

165 LF

449 LF

IIILF

564 LF

4 EA.

50LF

IEA.

IEA.

2 EA.

QUANTITIES

ESTIMATED

165 LF

451 LF

95 LF

573 LF

4 EA.

51 LF

1 EA.

1 EA.

2 EA.

NAME OF UTILITY CONTRACTOR : GAINES AND COMPANY, INC.

Sediment control measures for this contract

will be implemented in accordance with Section

Review for Howard Soil Conservation District and

meets technical requirements.

219 of the Specifications and as shown on F-04-152

ITEMS

8" WATER

6" WATER

8" SEWER

SEWER MANHOLES

FIRE HYDRANTS

12"x8" TSV

6" VALVES

1" WHC

4" SHC

MLLIAM McFARLAND, JR. TRUST VIOLA McFARLAND TRUST 5386 MONTGOMERY ROAD ELLICOTT CITY, MD 21043

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND

AS-BUILT

5-0" F/HYD.

T.S. VALVE

GATE VALVE

CHECKBOX

MANUFACTUREF SUPPLIER

FREDERICK PREGAST CONC.

KENNEDY VALVE

FORD/HUGHES KENNEDY V./HUGHES

YTON JOINT GRIFFIN PIPE IP CL. 52 PRODUCTS YTON JOINT GRIFFIN PIPE IP CL. 52 PRODUCTS

TYPE'K'COPPER HUGHES

SDR 35 PIPE JM MANUFACT./

SDR 35 PIPE JM MANUPACT./

AS-BUILT DATE DEC. 2000

SURVEY AND DRAFTING DIVISION

DEVELOPER MARYLAND 20723 410-792-2565

CORNERSTONE HOLDINGS, LL ATTN: BRIAN BOY 9691 NORFOLK AVENUE LAUREL,

> Patton Harris Rust & Associates,pc Engineers, Surveyors, Planners, Landscape Architects, 8818 Centre Pork Drive Columbia, MD 21045 T 410.997.8900

> > F 410,997,9282



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19949	DATE: 10/21/04	BY	NO.	REVISION D)ATE	

TITLE SHEET

CHAPEL MANOR LOTS 1 THRU 7 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 14-4172-D

SCALE

SHOWN

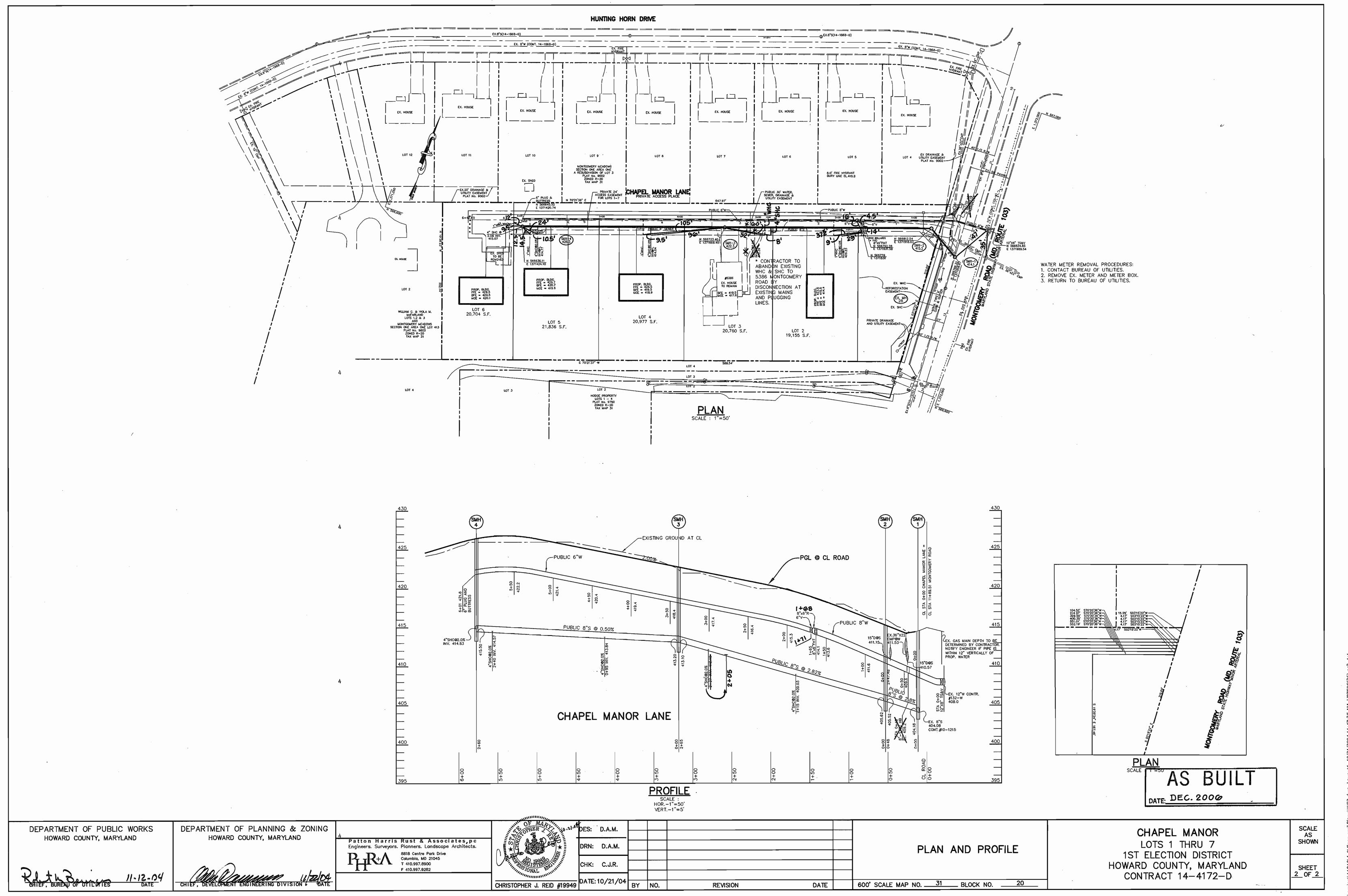
DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

CHRISTOPHER J. REID #1

600' SCALE MAP NO. 31 BLOCK NO.

SHEET 1_OF_2



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