

# CONTRACT NO. 14-4003-D

## CHESTNUT CREST

LOT 4 THROUGH LOT 12

2nd ELECTION DISTRICT

### SEWER & WATER MAIN EXTENSION

Howard County, Maryland

Department of Public Works

QUANTITIES	
ITEM	QUANTITIES ESTIMATED
8" WATER-D.I.P.	507'
6" WATER-D.I.P.	21'
4" WATER-D.I.P.	371'
8" x 6" TEE	1
FIRE HYDRANT	1
6" SLEEVE & SPACER	1
6" VALVES	1
4" CAP	1
1" WHC	290'
6" x 6" TAPPING SLEEVE & VALVE	1
4" DIP SEWER	345'
8" DIP SEWER	900'
STD. MH	3
MH VERTICAL	49'
MH OVER EX. SEWER	1
NAME OF UTILITY CONTRACTOR _____	
SURVEY AND DRAFTING DIVISION AS-BUILT DATE _____	

#### GENERAL NOTES

##### PART I

- 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.
- All horizontal controls are based on Maryland state coordinates (North American Datum of 1983 (NAD 83/91)).
- All vertical controls are based on NAVD83.
- All pipe elevations shown are invert elevations, unless otherwise noted on the plans.
- Clear all utilities by a minimum of 12". Clear all poles by 5' - 0" minimum or tunnel as required, unless otherwise noted. The owner has contracted 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.
- 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.
- 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.
- 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
B&E Contractor Services	410-850-4620
B&E Under Ground Damage Control	410-787-9068
Bureau of Utilities and Detail for Construction	410-313-4900
Colonial Pipeline CO.	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5535
Verizon	1-800-743-0033/410-224-9210

- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- Contractor shall remove trees, stumps, and roots along 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 any open cutting of any county road or boring/lacking operation in county roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per section 16.114(a) of the Howard County code.

##### PART II - WATER

- All water main to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a minimum of 3'-6" 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 the 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. Soil around the fire hydrant shall be compacted in accordance with section 1000 and 1005 of the standard specifications.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- Sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter. Twin house connections will be 1 1/2" from main to "Y" fitting.

##### PART III - SEWER

- All sewer mains shall be DIP 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 watertight frame and covers, standard detail G5.52. Where watertight manhole frame and cover is used, set top of frame 1" - 6" above finished grade unless otherwise noted on the drawings.
- Houses with the symbol "C.N.S." indicates that cellar cannot be served.

SHEET INDEX	
SHEET	DESCRIPTION
1	COVER SHEET
2	WATER & SEWER PLAN
3	WATER & SEWER PROFILES

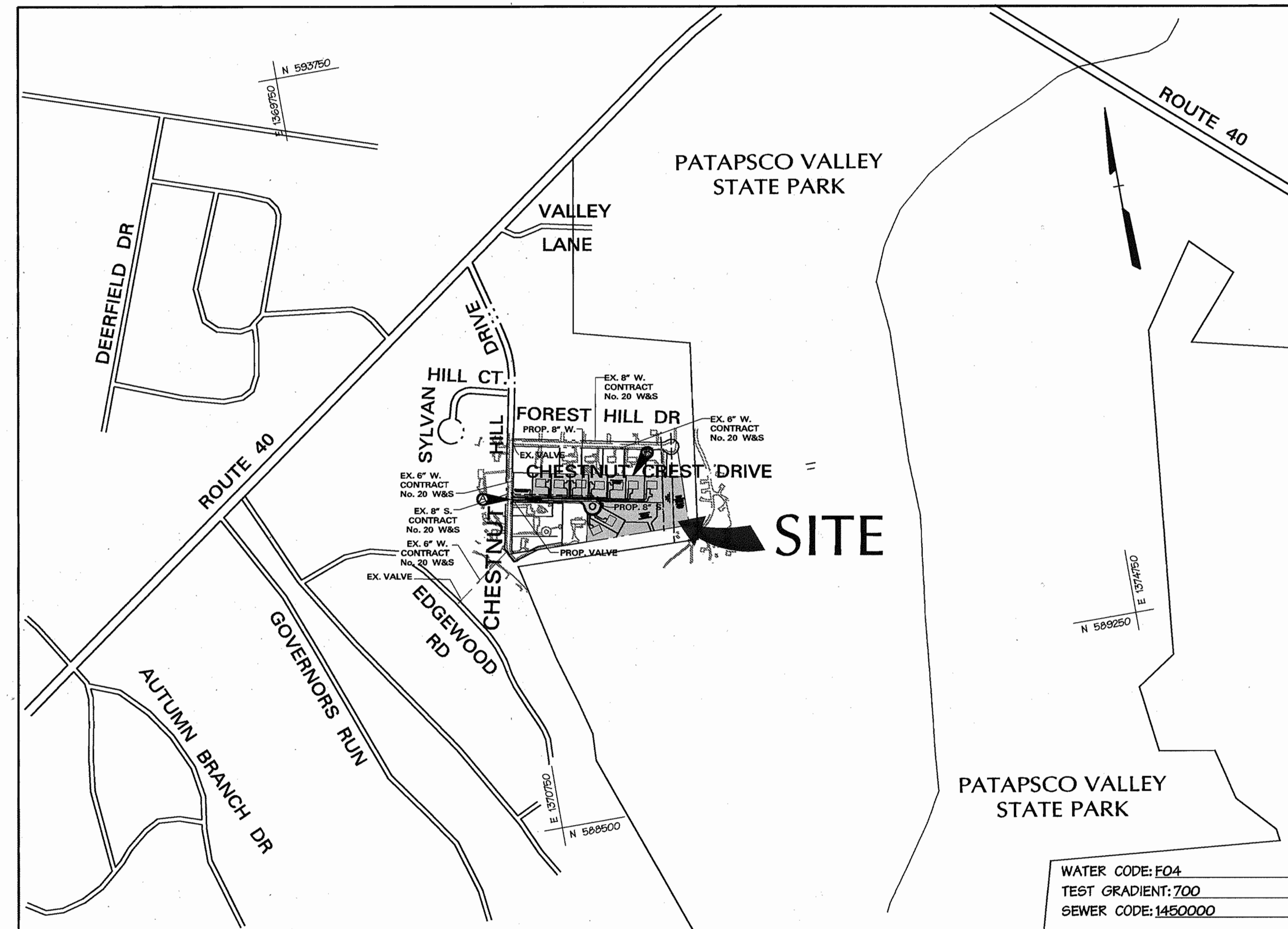
#### BENCHMARK DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.

17FA (HOWARD CO.): NORTHING: 594949.349 EASTING: 1364626.760 ELEVATION: 476.80'	24C2 (HOWARD CO.): NORTHING: 598649.312 EASTING: 1366038.195 ELEVATION: 354.08'
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A: R.R. SPIKE (NEAR CENTER OF CHESTNUT HILL, OPPOSITE PROP. CHESTNUT CREST DR.):  
NORTHING: 590716.655  
EASTING: 1370778.115  
ELEVATION: 426.18'

B: REBAR & CAP (NORTH OF LOT 9)  
NORTHING: 590727.059  
EASTING: 1371638.908  
ELEVATION: 433.58'



BOTH BENCHMARKS ARE LOCATED BEYOND THE SCOPE OF THIS VICINITY MAP.

VICINITY MAP  
SCALE: 1" = 600'

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE: *[Signature]* DATE: 7/8/04

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

SIGNATURE: *[Signature]* DATE: 7/8/04  
HOWARD S.C.D.

OWNER: CHESTNUT HILL PROPERTIES LLC  
946-A MARIMICH COURT  
ELDERSBURG, MD 21784

DEVELOPER: RACHUBA HOME BUILDERS, LLC  
946-A MARIMICH COURT  
ELDERSBURG, MD 21784

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND ROAD CONSTRUCTION PLAN F-04-080

TYPE OF BUILDINGS:	DETACHED HOMES
NO. OF LOTS / PARCELS:	9 PROPOSED
NO. OF WATER CONNECTIONS:	9
NO. OF SEWER CONNECTIONS:	10
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
7-1-04  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
7/14/04  
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE



A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals  
200 East Pennsylvania Avenue  
Towson, Maryland 21286  
(410) 286-3333  
Fax 296-4705



DESIGN BY:	RLH		
DRAWN BY:	KDE		
CHECKED BY:	RLH		
DATE:	6/18/04		
BY	NO.	REVISION	DATE

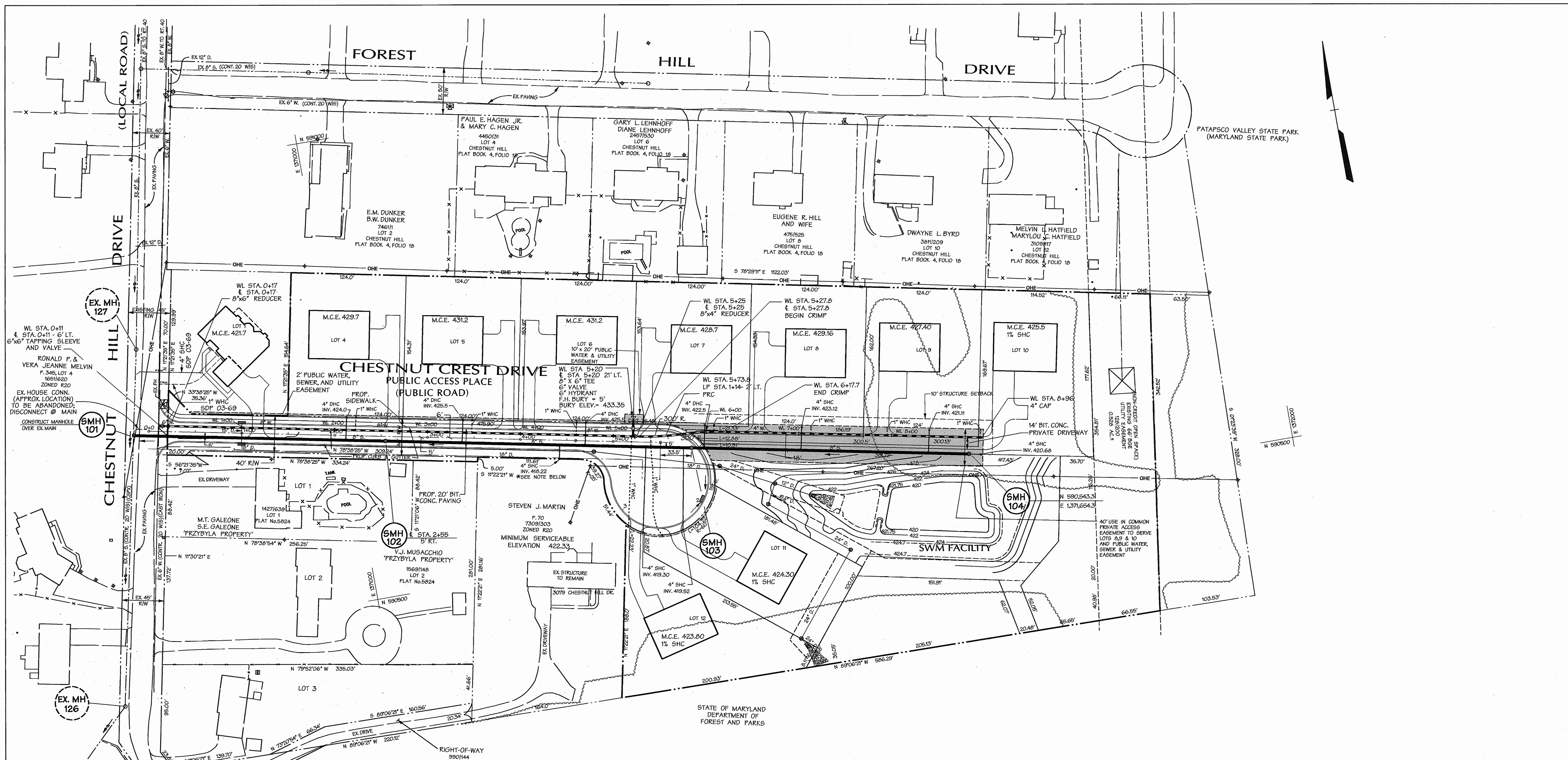
TITLE SHEET

600 SCALE MAP NO. 18 BLOCK NO. 20

CHESTNUT CREST  
LOTS 4 THRU 12

Election District No. 2  
CONTRACT NO. 14-4003-D  
Howard County, Maryland

SCALE:  
1"=600'  
SHEET  
1 of 3



\* NOTE :  
 ONCE PUBLIC SEWER IS CONNECTED AND FUNCTIONAL TO EXISTING HOUSE (MARTIN HOUSE - 3079 CHESTNUT HILL DRIVE), ABANDON EXISTING SEPTIC SYSTEM PER HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS. THE LOCATION OF EXISTING SEPTIC SYSTEM IS UNKNOWN.

M.C.E. - MINIMUM CELLAR ELEVATION THAT CAN BE SERVED BY GRAVITY

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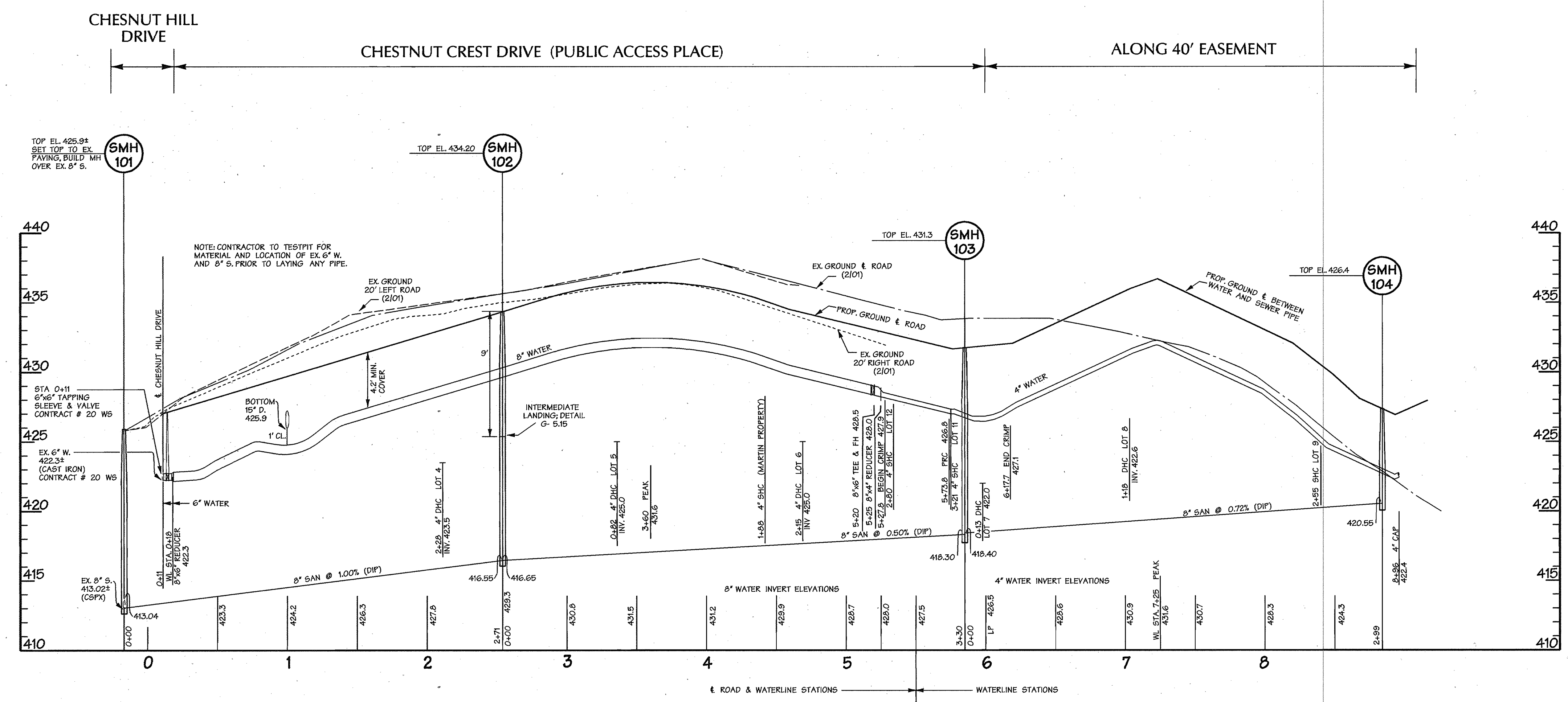
**Legend**

	EXISTING SEWER LINE
	EXISTING WATER LINE
	EXISTING STORM DRAINS
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED WATER TEE
	PROPOSED CURB & GUTTER

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>Robert Beaman</i> 7-1-04 CHIEF - BUREAU OF UTILITIES - DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  <i>John Dammann</i> 7/14/04 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE	 <b>DMW</b> Daft-McCune-Walker, Inc. A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals 200 East Pennsylvania Avenue Towson, Maryland 21286 (410) 296-3333 Fax 296-4705	 DESIGN BY: RLH DRAWN BY: KDE CHECKED BY: RLH DATE: 6/18/04	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>BY</th> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	BY	NO.	REVISION	DATE					<b>WATER &amp; SEWER PLAN</b>  600 SCALE MAP NO. 18 BLOCK NO. 20	<b>CHESTNUT CREST</b> LOTS 4 THRU 12 Election District No. 2 Howard County, Maryland CONTRACT NO. 14-4003-D	SCALE: <b>1"=50'</b>  SHEET <b>2 of 3</b>
BY	NO.	REVISION	DATE												

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 ELDERSBURG, MD 21784

**PROFILES**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*R. H. B. 7-1-04*  
 CHIEF - BUREAU OF UTILITIES - DATE

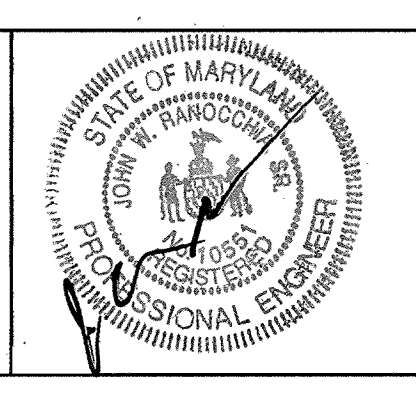
DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

*[Signature]* 7/14/04  
 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
 Daft-McCune-Walker, Inc.

A Team of Land Planners,  
 Landscape Architects,  
 200 East Pennsylvania Avenue  
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 (410) 296-3333  
 Fax 296-4705

Environmental Professionals



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DRAWN BY:	KDE		
CHECKED BY:	RLH		
DATE:	6/18/04		
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**WATER & SEWER PROFILES**

600 SCALE MAP NO. 18 BLOCK NO. 20

**CHESTNUT CREST**  
 LOTS 4 THRU 12

Election District No. 2  
 HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4003-D

SCALE:  
 AS SHOWN

SHEET  
 3 of 3

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