

0370

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.

COUNTY
NUMBER 13 A515042

1 2 3 6
(THIS NUMBER IS TO BE PUNCHED
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY
DATE Received
MM DO YY
8 17 06

DATE WELL COMPLETED
MM DO YY
8 17 06

Depth of Well
22 475 26
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
H0 - 95 - 0354

OWNER
Toll Brothers

STREET OR RFD
Valley View Overlook

SUBDIVISION
Benedict Farm

first name

TOWN
Ellicott City

SECTION

LOT
37

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use
additional sheets if needed)

FEET
FROM TO

check
if water
bearing

Brown
shale
0 40
Gray
Limestone 40 475

GROUTING RECORD
WELL HAS BEEN GROUTED
(Circle Appropriate Box)

yes no
Y N
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 14 NO. OF POUNDS 136

GALLONS OF WATER 84

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 39 ft.
(enter 0 if from surface)

CASING RECORD
casing
types
insert
appropriate
code
below

ST STEEL CO CONCRETE
PL PLASTIC OT OTHER

MAIN
CASING
TYPE PL

Nominal diameter
top (main) casing
(nearest inch) 06

Total depth
of main casing
(nearest foot) 45

OTHER CASING (if used)

depth (feet)
from to

SCREEN RECORD
screen type
or open hole
insert
appropriate
code
below

ST STEEL BR BRASS
PL PLASTIC HO OPEN
HOLE
OT OTHER

DEPTH (nearest ft.)
H0 45 475

SLOT SIZE 1 2 3

DIAMETER
OF SCREEN (NEAREST
INCH)
56 60

GRAVEL PACK
IF WELL DRILLED
WAS FLOWING WELL
INSERT F IN BOX 68

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q

TELESCOPE
CASING LOG
INDICATOR OTHER DATA

C 3
1 2

PUMPING TEST

HOURS PUMPED (nearest hour) 03

PUMPING RATE (gal. per min.) 5

METHOD USED TO
MEASURE PUMPING RATE 19 gal.

WATER LEVEL (distance from land surface)

BEFORE PUMPING 38 ft.

WHEN PUMPING 200 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine
C centrifugal R rotary O other
(describe below)
J jet S submersible

PUMP INSTALLED
DRILLER INSTALLED PUMP YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION
MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED
PLACE (A,C,J,P,R,S,T,O)
IN BOX 29

CAPACITY:
GALLONS PER MINUTE
(to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH
(nearest ft.) 43 47

CASING HEIGHT (circle appropriate box
and enter casing height)

+ above LAND SURFACE

- below 02 (nearest
foot)

LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURE SUCH AS
BUILDING, SEPTIC TANKS, AND /OR
LANDMARKS AND INDICATE NOT LESS
THAN TWO DISTANCES
(MEASUREMENTS TO WELL)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes no
Y N

CIRCLE APPROPRIATE LETTER
A A WELL WAS ABANDONED AND SEALED
WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION
WELL

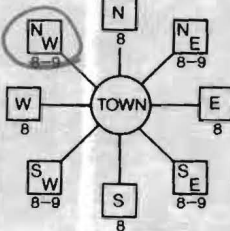

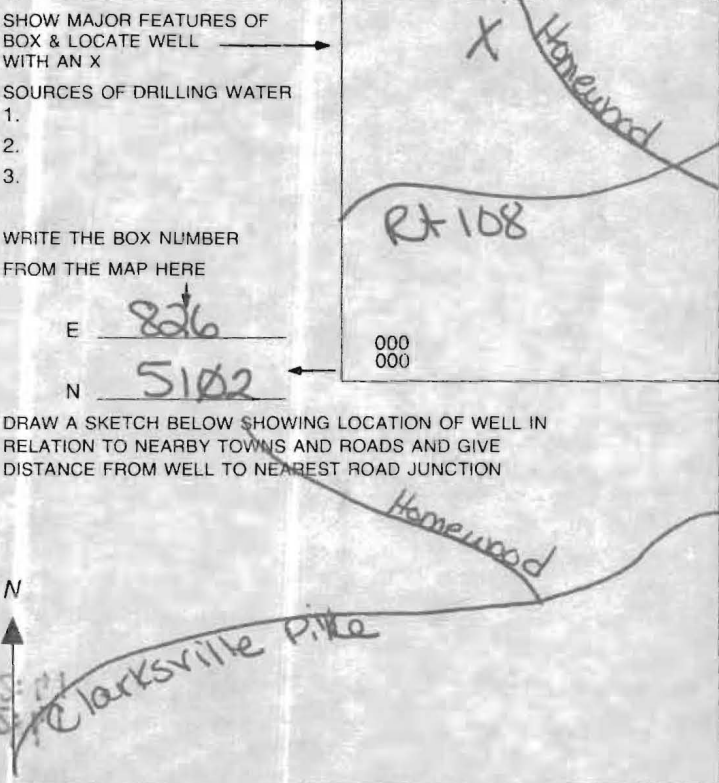
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE.

DRILLERS LIC. NO. 1 M S D 009

DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman
responsible for sitework if different from permittee)

B 1 1 2 3 4 5 6 8988	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type 524378	STATE PERMIT NUMBER H0-95-0354 fill in this form completely
Date Received (APA) 3/24/2006 8 MM DD YY 13 1011 Brothers 15 Last Name Owner First Name 34 14329 Tradelphia Rd 36 Street or RFD 55 Glenelg Md 21737 57 Town 70 State 72 Zip 76		B 3 Howard 8 COUNTY 21 Benedict Farm 23 SUBDIVISION 42 SECTION 44 46 LOT 37 48 50 Columbia 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 3 73 M I 76 77 78	
DRILLER INFORMATION Allen Compton MSD 009 Driller's Name 76 License No. 81 Fogles Well Drilling Firm Name 580 obrecht Rd Address Allen Compton 3-24-06 Signature Date		B 4 1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  Valley View Overlook 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  30 34 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 29 BLK: 9 PARCEL 28	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard (13) A515042 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S → 41 DATE ISSUED 4/5/2006 Brian Baker 4/5/2007 43 MM DD YY 48 CO SIGNATURE EXP. DATE NORTH GRID 512 000 EAST GRID 826 000 50 55 57 63	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> GEO-THERMAL		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 826 N 5102 000 000	
APPROXIMATE DEPTH OF WELL 300 FEET 24 28 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVerse-ROTary DRive-POINT other		REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52	
Not to be filled in by driller (MDE OR COUNTY USE ONLY)			
APPROPR. PERMIT NUMBER H02003G006 PERMIT No. H0-95-0354 70 71 72 73 74 75 76 77 78 79			
SPECIAL CONDITIONS Water Sample Must Be Taken During Yield Test			

Well Permit No. HO - 95-0354
Location of property (road) Valley View Overlook
Subdivision Benedict Farm Lot 37 Block Plat Sec.
Well Driller Fogles/Compton Owner Toll Brothers

Depth of well 475'
Distance of measuring point (M.P.) above ground 2'
Static water level (S.W.L.) below M.P. 38'

Time pump started 11:00 Pumping rate 12
Total time 15 min. to reach pumping water level 200 ft. below M.P.

HD-224

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Fogles Well Drilling Telephone #: 410-795-5670
Address: 550 Abbott Rd
Sykesville, Md 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:

Name (Print): Allen Compton License #: MSD 009

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Tall Brothers Telephone #: _____
Subdivision: Potuxent Chase Lot #: 37 Well Tag #: HO-95-0354
Site Address: 4958 Valley View Overlook

Submersible Pump Data	Pitless Adapter	Well Cap and Electric Conduit
Make: <u>Grundfos</u>	Make: <u>Campbell</u>	Two piece watertight cap: <u>yes</u>
Model #: <u>1550E10-250</u>	Model #: <u>N/A</u>	Screened, vented well cap: <u>yes</u>
Pump Capacity: <u>15</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: <u>yes</u>
Well Yield: <u>5</u> GPM	NSF approved: <u>yes</u>	Conduit min 18" B.G.: <u>yes</u>
Depth of well encountered at time of pump installation: <u>47 feet</u>		Conduit secured to well cap: <u>yes</u>

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt NA

Piping to house	House Connection
Type: <u>1" Black Plastic</u>	PVC sleeved to undisturbed soil at wall penetration: <u>yes</u>
PSI: <u>160</u> (160 psi min)	Approximate length of sleeve: <u>5</u>
Depth of supply line: <u>42 3/8" min</u>	Sleeve caulked and sealed properly: <u>yes</u>

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

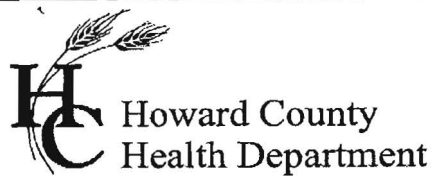
Signature of company representative responsible for installation: Allen Compton date: 2/19/07

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 2/19/07 Date Insp. Approved: 2/19/07 (BB)

Inspection Data:

Pitless adapter and water supply line at least 36" below grade	<u>✓</u>
Two piece cap installed and attached to casing securely	<u>✓</u>
Elec. conduit extends at least 18" below grade/attached to cap properly	<u>✓</u>
Safety rope installed inside of well casing	<u>✓</u>
Correct well tag attached properly and casing 8" above finished grade	<u>✓</u>
Water supply line sleeved adequately at house connection	<u>✓</u>
Adequate grout observed below pitless adapter	<u>✓</u>



Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

June 26, 2007

Toll MD III LP
7164 Columbia Gateway Drive, #230
Columbia, MD 21046

RE: Homewood Crossing, Lot 37
Benedict Farm
4958 Valley View Overlook
Ellicott City, MD 21042
BP #: B06004429
Well Permit # HO-95-0354

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 02/09/2007.** **Final approval of the well line connection to the dwelling was approved on 02/09/2007.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

Also, pre and post treatment Radium 226/228 samples were collected on 05/17/2007. Both findings were below the combined 226/228 MCL are 5pCi/l. At the time of the testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing **for these parameters** will be required to secure the future Use and Occupancy.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-95-0354. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

K:\SDSKPROJ\030754 Benedict Farm\dwg\PHASE 1 - FINAL\030754 WELL LOCATION.dwg, 2/16/2006 4:12:04 PM, 1:1

3/30/06
Well Sites
Staked By
F, C+C.

BB



1" = 50'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2055

WELL LOCATION PLAN
LOT-37

ZONED RC-DEO

TAX MAP No. 29 GRID No. 9 PARCEL No. 2B
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE 1" = 50' DATE: FEBRUARY 16, 2006

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:	63152	Account #:	1930
Reference:	Toll Brothers Lot 37	Company:	Fogle's Well Drilling
Location:	4958 Valley View Overlook	Requested By:	Dave Fogle
	Clarksville, MD 21029	Source:	Well Water
Date/ Time Collected:	5/17/2007 1300	Site:	Kitchen Sink Tap
Date/Time Rec'd:	5/17/2007 1420	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.6
Collected By:	V.M. Fadoul 6804VF-FS	Well #:	HO-95-0354

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.3	pCi/L	****	903.1	5/30/2007 / 1037 / MJN
Radium-228	1.2	pCi/L	****	Ra-05	5/30/2007 / 1009 / PJ

NOTES

- 1 ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 pCi/L = picocuries per liter
- 3 pH tested on-site
- 4 Radium 226 Detection Limit: 0.2 pCi/L
- 5 Radium 228 Detection Limit: 0.8 pCi/L
- 6 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 ND:None Detected
- 8 Sample collected by client, analyzed as received
- 9 Subcontracted to Reference Lab #278

Reason for Test : Use & Occupancy
Building Permit # : B06004429

Date Reported: 5/31/2007

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:	63683	Account #:	1930
Reference:	Toll Brothers Lot 37	Company:	Fogle's Well Drilling
Location:	4958 Valley View Overlook	Requested By:	Dave Fogle
	Clarksville, MD 21029	Source:	Well Water
Date/ Time Collected:	6/11/2007 1210	Site:	Laundry Sink Tap
Date/Time Rec'd:	6/11/2007 1408	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	7.1
Collected By:	D. Fogle 8194DF	Well #:	HO-95-0354

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.	6/12/2007 / 0815 / AD/BD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.	6/12/2007 / 0815 / AD/BD
Nitrate	<1.0	mg/l.	10	601	6/11/2007 / 1410 / AD/BD
Turbidity	2.12	NTU	<10	SM18 2130B	6/11/2007 / 1420 / AD/BD
Sand	NS	mg/L	5	Visual/Gravimetric	6/11/2007 / 1420 / AD/BD

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Sample collected by client, analyzed as received
- 8 pH and Chlorine level tested in lab

Reason for Test : Use & Occupancy
Building Permit # : B06004429

Date Reported: 6/12/2007

MD State Certification # 133

9/14/06 at ✓
well completion WTB signed

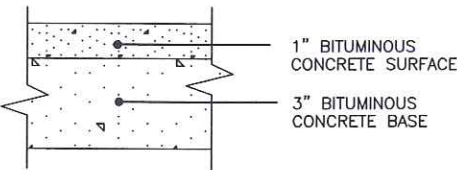
NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON 12-13-05 AS PLAT NUMBER 17889. REFER TO THIS PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND BUILDING RESTRICTIONS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
3. EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF PRECONSTRUCTION INSPECTION.
4. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
5. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER F-05-031 AND GP-06-94 AND SHALL COMPLY WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
6. STORMWATER MANAGEMENT FOR THIS LOT WAS PROVIDED UNDER F-05-031.
7. THE EXISTING WELL (TAG NO. HO-95-0354) SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. ON 9-7-06 AND IS ACCURATELY SHOWN.
8. DRIVEWAY CULVERT COMPUTATIONS HAVE BEEN PROVIDED WITH THIS BUILDING PERMIT PLOT PLAN. THE CULVERT SHALL BE 15" CMP OR ELLIPTICAL EQUIVALENT.

The approved
site plan

LEGEND

- EXISTING CONTOURS ESTABLISHED UNDER F-05-031
- FIELD SURVEYED WELL LOCATION
- STREET TREES INSTALLED UNDER F-05-031
- INDICATES WALK-OUT BASEMENT LOCATION
- STABILIZED CONSTRUCTION ENTRANCE INSTALLED UNDER GP-06-94
- SUPER SILT FENCE INSTALLED UNDER F-05-031
- SUPER SILT FENCE INSTALLED UNDER GP-06-94
- SILT FENCE INSTALLED UNDER F-05-031
- LIMIT OF DISTURBANCE UNDER F-05-031



FULL DEPTH BIT. CONC. ALTERNATIVE
P-1 PAVING DETAIL
NOT TO SCALE

BENCHMARK
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644
www.bei-civilengineering.com

BUILDER:

TOLL MD III LIMITED PARTNERSHIP
7164 COLUMBIA GATEWAY DRIVE
SUITE 230
COLUMBIA, MARYLAND 21046
410-872-9105

HOMEWOOD CROSSING
PLOT PLAN
LOT 37

4958 VALLEY VIEW OVERLOOK
TAX MAP 29, GRID 9 - PARCEL 28
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

HOUSE TYPE: **HENLEY**
WILLIAMSBURG ELEVATION

DATE:	SEPTEMBER 8, 2006	PROJECT NO.	1913
SCALE:	1" = 40'	DRAWING	1 OF 1