

LAYOUT 9/26/07 (150) INSP 4 \_\_\_\_\_  
 INSP 2 9/27/07 (150) INSP 5 \_\_\_\_\_  
 INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

*Tim Costello*  
 Fax (410) 203-9984

ISSUE DATE: 9/25/07

P 527826

APPROVAL DATE: 9/27/07 (150)

A 524418

# PERMIT

TAX ID # 03287513

**ON-SITE SEWAGE DISPOSAL SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
 BUREAU OF ENVIRONMENTAL HEALTH**

*Public Works*

Farm & Home Excavating, Inc IS PERMITTED TO INSTALL  ALTER

ADDRESS: 901 Driver Rd PHONE NUMBER: 410-442-2139

SUBDIVISION: Hampton Hills LOT NUMBER: 2

ADDRESS: 11166 Douglas Ave PROPERTY OWNER: Cobalt Homes LLC

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: \_\_\_\_\_

$$\frac{4(150)}{0.8} = \frac{600}{0.8} = 750 = 250 (.83) = 208$$

LINEAR FEET OF TRENCH REQUIRED: ~~300~~ 210

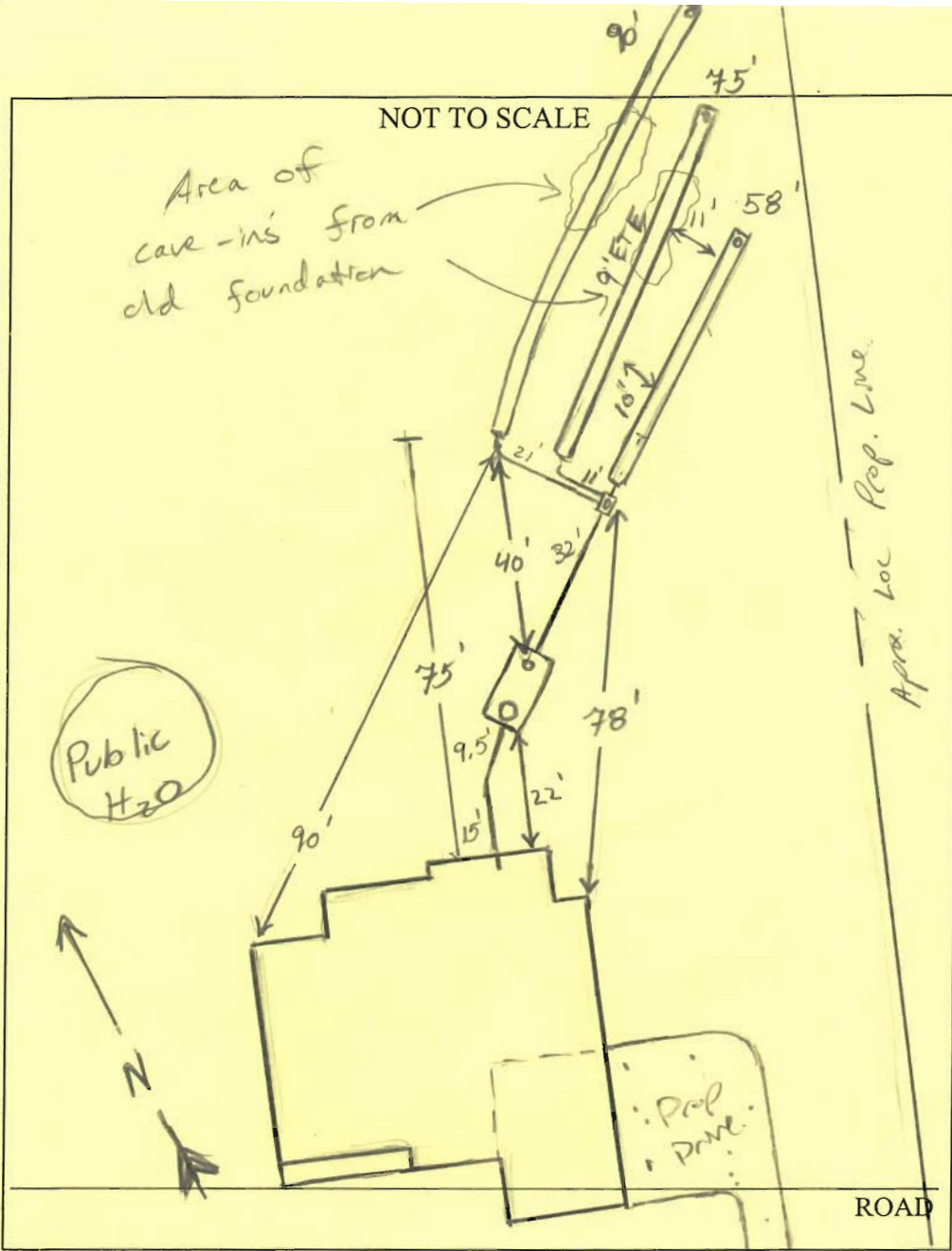
*55, 45, 90'*

TRENCHES:	Trench to be 2.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth <del>8.0</del> <sup>9.0</sup> feet below original grade. Effective area begins at 7.0 feet below original grade. <del>4.0</del> <sup>5</sup> feet of stone below distribution pipe.
LOCATION:	<u>2,310 ft<sup>3</sup> total volume.</u>
NOTES:	Trench and distribution box location to be determined at layout. Layout inspection required prior to installation.

PLANS APPROVED: Sara Fegel DATE: 6/14/07

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET,	BOTTOM
2'	4	9'
NUMBER OF TRENCHES		3
TOTAL LENGTH		223'
ABSORPTION AREA		446'±SW
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	1.5'-2'
BAFFLES	Yes
BAFFLE FILTER	—
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	—
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	—
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—

PRE-CONSTRUCTION 9/26/07 Changed bottom depth on trenches to 9'. Trenches shortened to 220' to fit (KW)

INSTALLATION 9/27/07 System complete. Need stone jackets. Dist. box feed line leaking out of box, need to re-seal box OK to backfill when finished. Cave-ins noticed near ends of top 2 trenches due to old foundation. (KW)

11/8/07 Stone jackets reserved OK. (KW)

FINAL INSPECTOR K. Way DATE OF APPROVAL 9/28/07

SEPTIC SPECIFICATIONS WORKSHEET

Subdivision Hampton Hills Lot 2 A 524/118  
 Street Name 11166 Douglas Ave Lot Number 2  
 Average Percolation Rate(min./in.) 13 Application Rate (GPD/sq. ft.) 0.8  
 Number of Bedrooms 4 Design Flow (BRx150) 600  
 Square Footage (of House) 4287 Septic Tank Capacity (gal.) 2000  
 Sidewall Credit / % Reduction 1 / 80 Total Length of Trench (ft.) 300

\*All Septic/Pump tanks must be top seamed unless otherwise approved by this agency.

\*All Septic tanks must be compartmented unless otherwise approved by this agency.

Baffle Filter Required? Yes  No

$$\frac{4 \times 150}{0.8} = \frac{600}{0.8} = 750$$

$$750 - \frac{50}{2} = 725 \times .80 = 580$$

TRENCH DIMENSIONS: Trench to 2 feet wide. Inlet at 4 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 7 feet below original grade. 4 feet of stone below the distribution pipe.

PUMP SYSTEM PROPOSED? YES  NO

Pump system details: \_\_\_\_\_ gallon pump chamber

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test required prior to Health Department approval of pumped septic system.

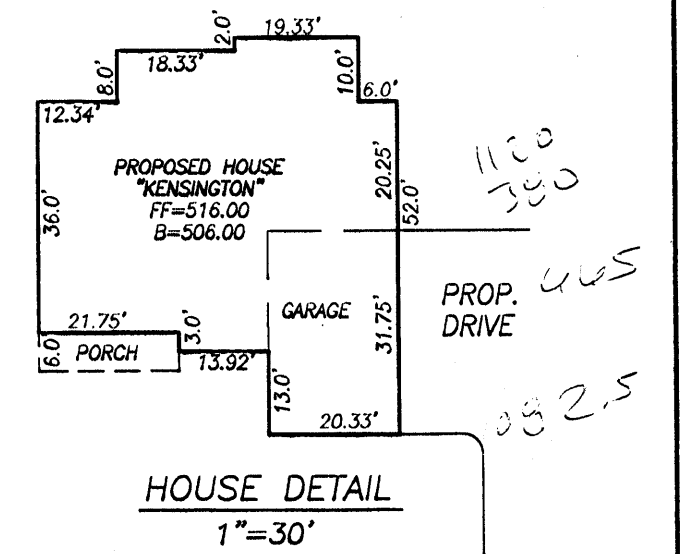
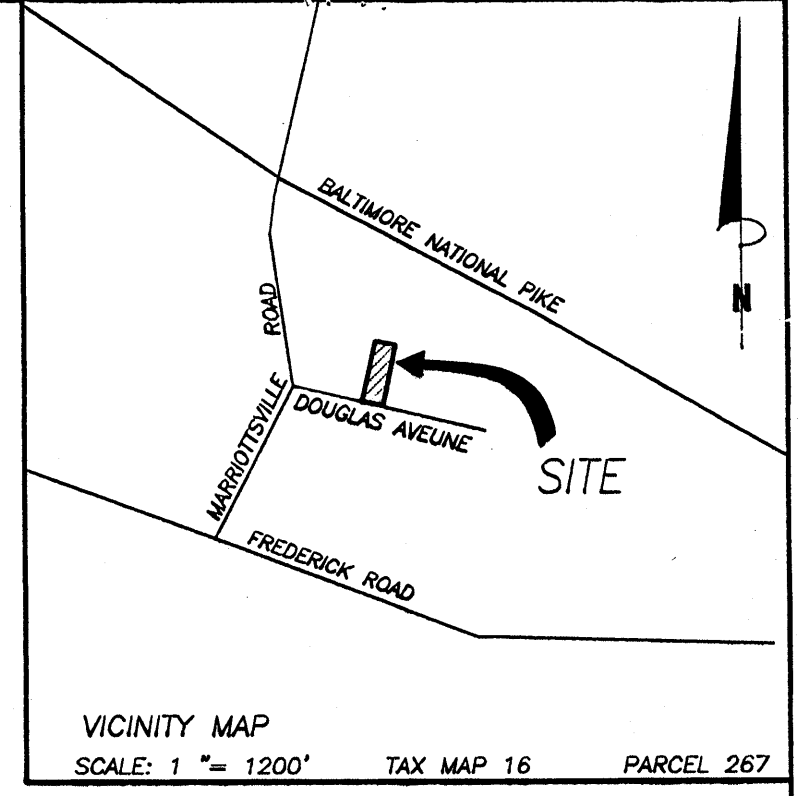
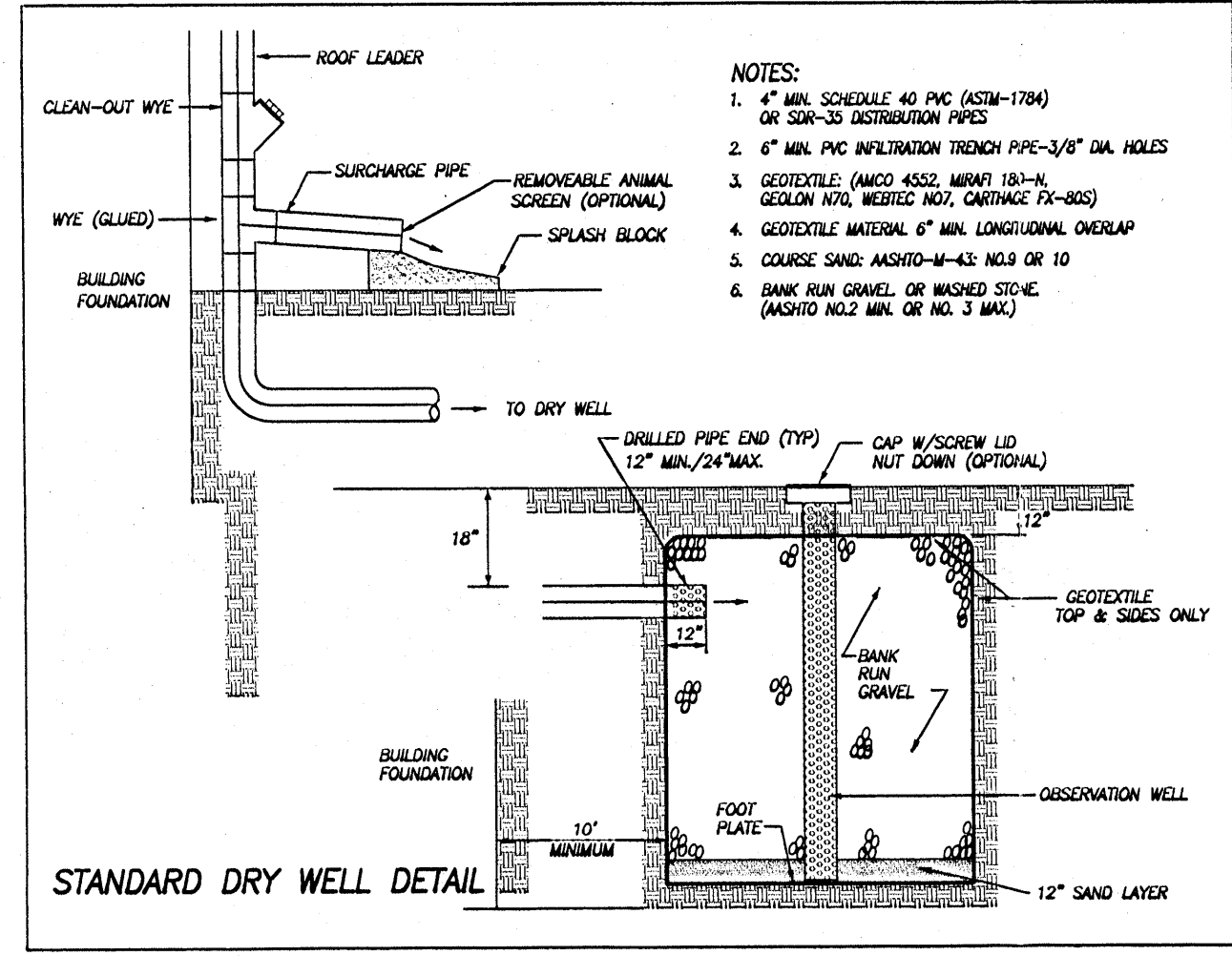
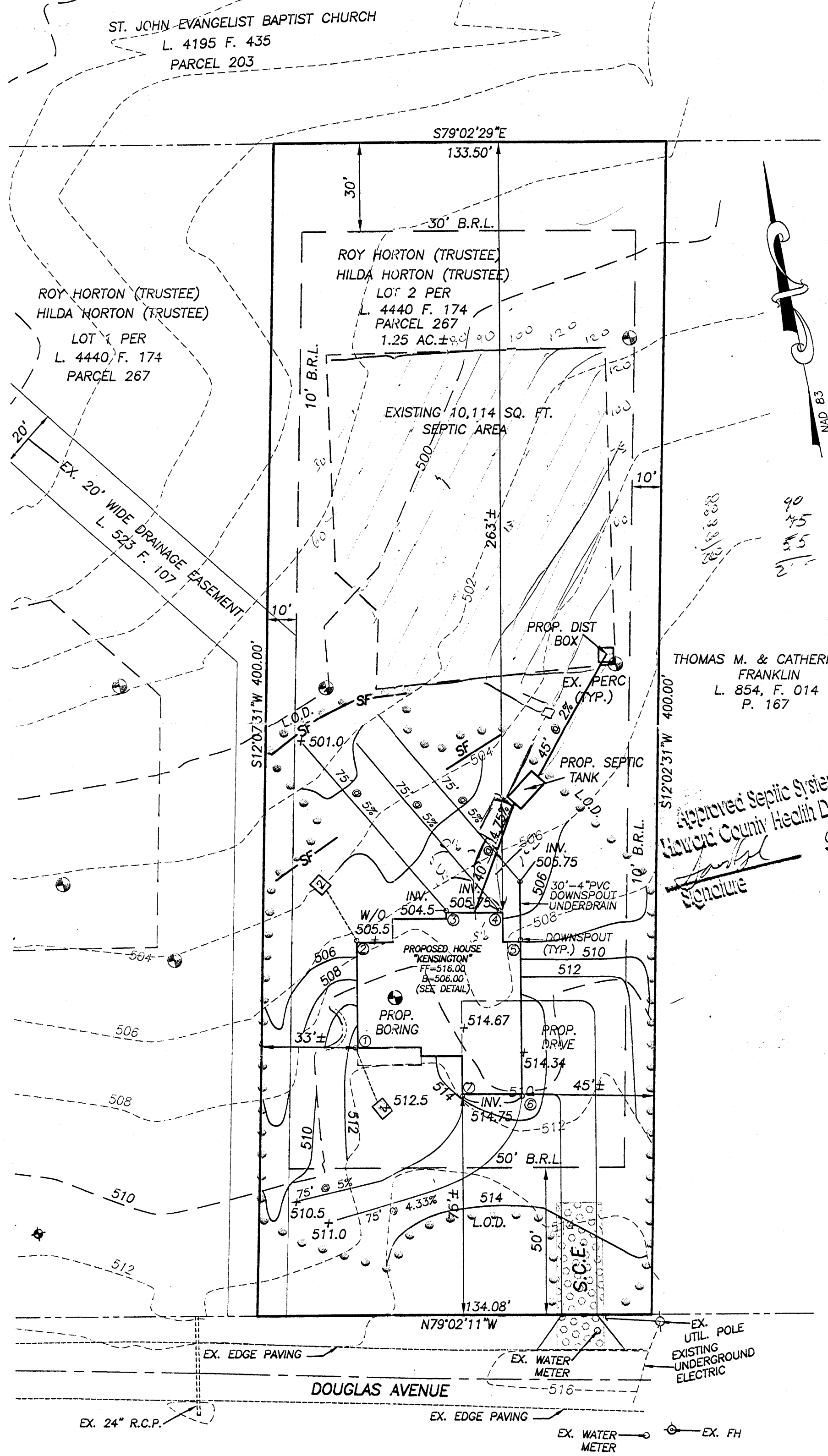
LOCATION: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

ADDITIONAL NOTES: Trench and User location to be determined @ layout. Layout inspection required prior to installation

Reviewed by: [Signature]

Date: 6/14/07





ROOFTOP DISCONNECTION CREDIT

DOWN SPOUT	DISCONNECTION LENGTH	REQUIRED LENGTH	SWM ADDRESSED
3	75'	75'	YES
4	75'	75'	YES
5	75'	75'	YES
6	75'	75'	YES
7	75'	75'	YES

DRY WELL DATA

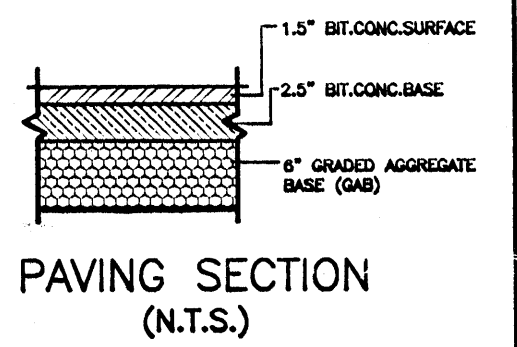
DOWN SPOUT (ROOF DRAIN)	DRYWELL No.	DRY WELL SIZE (4' DEPTH)	TOP OF OBSERVATION WELL	INVERT IN DRY WELL
1	1	5.0' X 5.0'	ELEV. = 512.5	ELEV. = 510.67
2	2	5.0' X 5.0'	ELEV. = 504.0	ELEV. = 502.17

SEPTIC ELEVATIONS

PROPOSED HOUSE:  
F.F. ELEV. = 516.00  
BSMT. ELEV. = 506.00  
GAR. ELEV. = 514.67  
INV. OUT = 504.5

PROPOSED SEPTIC TANK:  
EX GRD. ELEV. = 505.0  
PROP. GRD. ELEV. = 505.0  
INV. IN = 502.6  
INV. OUT = 502.3

PROPOSED DISTRIBUTION BOX:  
EX GRD. ELEV. = 505.2  
INV. IN = 501.40  
INV. OUT = 501.10



- NOTES:
- TOPOGRAPHY IS FIELD RUN BY VANMAR ASSOC. INC. CONTOUR INTERVALS ARE AT 2 FEET.
  - ACTUAL LENGTH AND NUMBER OF TRENCHES FOR SEWERAGE ARE TO BE DETERMINED AT THE TIME OF SEPTIC SYSTEM PERMIT ISSUANCE.
  - PROPOSED HOUSE IS 4 BEDROOM.
  - LIMIT OF DISTURBANCE: (LOD) 21,974 Sq. Ft.

FOR CONSTRUCTION OF DRYWELLS REFER TO COUNTY DETAILS

DATE	REVISIONS

PLOT PLAN  
**HAMPTON HILLS**  
LOT 2 11166 Douglas Ave  
PER LIBER 4440 FOLIO 174

11166 DOUGLAS AVENUE  
ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' MAY, 2007

OWNERS: HILDA HORTON  
ROY HORTON  
C/O FORTY WEST BUILDERS INC.  
3230 BETHANY LANE  
SUITE 1  
ELLCOTT CITY, MD. 21042

VANMAR ASSOCIATES, INC.  
Engineers Surveyors Planners  
310 South Main Street P.O. Box 328 Mount Airy, Maryland 21771  
(301) 829 2890 (301) 831 5015 (410) 548 2751

5/29/07



Douglas Ave - Cobalt

WEIGHMASTER: MCRANFOR 30514 PLANT ID: MARRIOTTSTVILLE PLANT  
 11411 MARRIOTTSTVILLE ROAD, MARRIOTTSTVILLE, MD  
 DATE: 09/26/2007 TIME IN: 11:56 TIME OUT: 12:04  
 Plant Phone: 410-461-8800 Dispatch Phone: 410-461-8800  
 TICKET NO. 141521

CUSTOMER ID: 3288309 CUSTOMER NAME: FARM & HOME EXC  
 P.O. NUMBER: 16929 JOB NUMBER: QUOTE #  
 MAN WT: 69860 lb GROSS: 31688 kg MAX GVW: 70000 lb  
 26980 lb TARE: 12238 kg  
 42800 lb NET: 19450 kg  
 21.44 tn 19.45 t

OB ADDRESS: MARYLAND VARIOUS-AGG, MARRIOTTSTVILLE, MD  
 ZONE # HIRED ID HIRED ID DESC TRUCK ID TRUCK DESC  
 DELIVERY INSTRUCTIONS: DELIVERY OWN CUSTOMER OWN 5124 FARM & HOME EXC  
 MARYLAND VARIOUS-AGE N E28863E

PRODUCT ID	PRODUCT DESCRIPTION	QTY	QTY TODAY	LOAD #	UOM	PRICE	SUB TOTAL	TAX	TOTAL
AG7014	ASTM #4	21.44	21.44	1	TN				

STANDBY TIME APPROVAL: STANDBY TIME

RECEIVED BY: DRIVERS SIGNATURE

C 0146998



Douglas Ave - Cobalt

WEIGHMASTER: MCRANFOR 30514 PLANT ID: MARRIOTTSTVILLE PLANT  
 11411 MARRIOTTSTVILLE ROAD, MARRIOTTSTVILLE, MD  
 DATE: 09/26/2007 TIME IN: 11:56 TIME OUT: 13:52  
 Plant Phone: 410-461-8800 Dispatch Phone: 410-461-8800  
 TICKET NO. 141561

CUSTOMER ID: 3288309 CUSTOMER NAME: FARM & HOME EXC  
 P.O. NUMBER: 16929 JOB NUMBER: QUOTE #  
 MAN WT: 69460 lb GROSS: 31507 kg MAX GVW: 70000 lb  
 26980 lb TARE: 12238 kg  
 42480 lb NET: 19268 kg  
 21.24 tn 19.27 t

OB ADDRESS: MARYLAND VARIOUS-AGG, MARRIOTTSTVILLE, MD  
 ZONE # HIRED ID HIRED ID DESC TRUCK ID TRUCK DESC  
 DELIVERY INSTRUCTIONS: DELIVERY OWN CUSTOMER OWN 5124 FARM & HOME EXC  
 MARYLAND VARIOUS-AGE N E28863E

PRODUCT ID	PRODUCT DESCRIPTION	QTY	QTY TODAY	LOAD #	UOM	PRICE	SUB TOTAL	TAX	TOTAL
		21.24	21.24		TN				

STANDBY TIME APPROVAL: STANDBY TIME

RECEIVED BY: DRIVER'S SIGNATURE

DLCMDT01 (3/07)

STANDBY TIME APPROVAL

DLCMDT01 (3/07)

North America

WEIGHMASTER	PLANT ID	MARRIOTTSTVILLE PLANT	TICKET NO.	141587
MCRAWFOR	30614	11411 MARRIOTTSTVILLE ROAD, MARRIOTTSTVILLE, MD	DATE	09/26/2007
ORDER NO.	LOCATION	Plant Phone : 410-461-8800	TIME IN	11:56
5241		Dispatch Phone : 410-461-8800	TIME OUT	15:24
CUSTOMER ID	CUSTOMER NAME		69600 lb	GROSS
3288309	FARM & HOME EXC		26980 lb	TARE
P.O. NUMBER	JOB NUMBER	QUOTE #	42620 lb	NET
		16929	21.31 tn	31570 kg
				12238 kg
				19332 kg
				19.33 t
MAX GWW			70000 lb	

OB ADDRESS	ZONE #	HIRED ID	HIRED ID DESC	TRUCK ID	TRUCK DESC
MARYLAND VARIOUS-AGG, MARRIOTTSTVILLE, MD		OWN	CUSTOMER OWN 5124		FARM & HOME EXC
DELIVERY INSTRUCTIONS	DELIVERY		E28863E		
MARYLAND VARIOUS-AGG	N				

PRODUCT ID	PRODUCT DESCRIPTION	QTY	QTY TODAY	LOAD #	UOM	PRICE	SUB TOTAL	TAX	TOTAL
AG7014	ASTM #4	21.31	63.98	3	TN				

STANDBY TIME APPROVAL	STANDBY TIME

RECEIVED BY	DRIVER'S SIGNATURE

DLCMDT01 (3/07)

C1336066

North America

WEIGHMASTER	PLANT ID	MARRIOTTSTVILLE PLANT	TICKET NO.	141673
MCRAWFOR	30614	11411 MARRIOTTSTVILLE ROAD, MARRIOTTSTVILLE, MD	DATE	09/27/2007
ORDER NO.	LOCATION	Plant Phone : 410-461-8800	TIME IN	7:59
3231		Dispatch Phone : 410-461-8800	TIME OUT	8:53
CUSTOMER ID	CUSTOMER NAME		69320 lb	GROSS
3288309	FARM & HOME EXC		26980 lb	TARE
P.O. NUMBER	JOB NUMBER	QUOTE #	42340 lb	NET
		16929	21.17 tn	31443 kg
				12238 kg
				19205 kg
				19.21 t
MAX GWW			70000 lb	

JOB ADDRESS	ZONE #	HIRED ID	HIRED ID DESC	TRUCK ID	TRUCK DESC
MARYLAND VARIOUS-AGG, MARRIOTTSTVILLE, MD		OWN	CUSTOMER OWN 5124		FARM & HOME EXC
DELIVERY INSTRUCTIONS	DELIVERY		E28863E		
MARYLAND VARIOUS-AGG	N				

PRODUCT ID	PRODUCT DESCRIPTION	QTY	QTY TODAY	LOAD #	UOM	PRICE	SUB TOTAL	TAX	TOTAL
AG7014	ASTM #4	21.17	42.46	2	TN				

STANDBY TIME APPROVAL	STANDBY TIME

RECEIVED BY	DRIVER'S SIGNATURE

DLCMDT01 (3/07)

C1336066

North America

TICKET NO. 141652

<b>WEIGHMASTER</b>	<b>PLANT ID</b>	MARRIOTTSTVILLE PLANT
MORAWFOP	30614	11411 MARRIOTTSTVILLE ROAD, MARRIOTTSTVILLE, MD
<b>ORDER NO.</b>	<b>LOCATION</b>	Plant Phone : 410-461-8800 Dispatch Phone : 410-461-8800

<b>DATE</b>	<b>TIME IN</b>	<b>TIME OUT</b>
09/27/2007	7:59	8:04

<b>CUSTOMER ID</b>	<b>CUSTOMER NAME</b>	
3298309	FARM & HOME EXC	
<b>P.O. NUMBER</b>	<b>JOB NUMBER</b>	<b>QUOTE #</b>
	16929	

69560 lb	<b>GROSS</b>	31552 kg	<b>MAX GW</b>
26980 lb	<b>TARE</b>	12238 kg	70000 lb
42580 lb	<b>NET</b>	19314 kg	
21.29 tn		19.31 t	

<b>JOB ADDRESS</b>	<b>ZONE #</b>	<b>HIRED ID</b>	<b>HIRED ID DESC</b>	<b>TRUCK ID</b>	<b>TRUCK DESC</b>
MARYLAND VARIOUS-AGG, MARRIOTTSTVILLE, MD		OWN	CUSTOMER OWN 5124	E28863E	FARM & HOME EXC
<b>DELIVERY INSTRUCTIONS</b>	<b>DELIVERY</b>				
MARYLAND VARIOUS-AGG	N				

PRODUCT ID	PRODUCT DESCRIPTION	QTY	QTY TODAY	LOAD #	UOM	PRICE	SUB TOTAL	TAX	TOTAL
AB7014	ASTM #4	21.29	21.29	1	LN				

<b>STANDBY TIME APPROVAL</b>	<b>STANDBY TIME</b>

<b>RECEIVED BY</b>	<b>DRIVER'S SIGNATURE</b>
	

C1336135