

9/30/80

APPROVED  
SEPT 30 80 RH  
P 30938  
A 28141

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH\*

HOWARD COUNTY

03-301958

INDEXED

ELLICOTT CITY

DISTRICT 3rd.

Tom Karpowicz

4/2 2230

DATE 9/18/80

Clarence L. Frock

IS PERMITTED TO INSTALL  ALTER

ADDRESS 137 Houck Road, Westminster, Maryland, 21157

PHONE 876-1038

SUBDIVISION Triadelphia Farms II

ROAD 13346 <sup>Hunt Ridge</sup> Triadelphia Road

LOT 9A

PROPERTY OWNER Sandra E. Carlson

PHONE: 997-5516

ADDRESS 5009 West Durham Road, Columbia, Maryland 21044

SPECIFICATIONS 3 Bedrooms

SEPTIC TANK CAPACITY 1000 GALLONS

DRAIN FIELD \_\_\_\_\_ DEPTH \_\_\_\_\_ FEET, BOTTOM AREA \_\_\_\_\_ SQ. FT.

DEEP TRENCH \_\_\_\_\_ DEPTH \_\_\_\_\_ FEET, BOTTOM AREA \_\_\_\_\_ SQ. FT.

Dry Well SEEPAGE PITS  ABSORBENT SIDE-WALL AREA 120 SQ. FT. per bedroom

INLET PIPE 3 FT. BELOW ORIGINAL GRADE. MAXIMUM DEPTH 12 FT. BELOW ORIGINAL GRADE

EFFECTIVE DEPTH AT \_\_\_\_\_ FT. BELOW ORIGINAL GRADE.

LOCATE DISPOSAL AREA 85 FT. FROM back LOT LINE AND 50 FT. FROM right LOT LINE AS SEEN WHEN

FACING LOT FROM the back lot line.

NOTE: FOR THE PURPOSE OF THESE SPECIFICATIONS THE BACK LOT LINE IS THE LINE WHICH IS 193.62 FT. LONG.

Okay to use trench off dry well to make up absorbent sidewall area in system. Leave 5 ft. earth buffer between trench and dry well. Trench to follow contour of the land.

PLANS APPROVED BY Raymond Hodges

DATE 9/26/79

COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER.

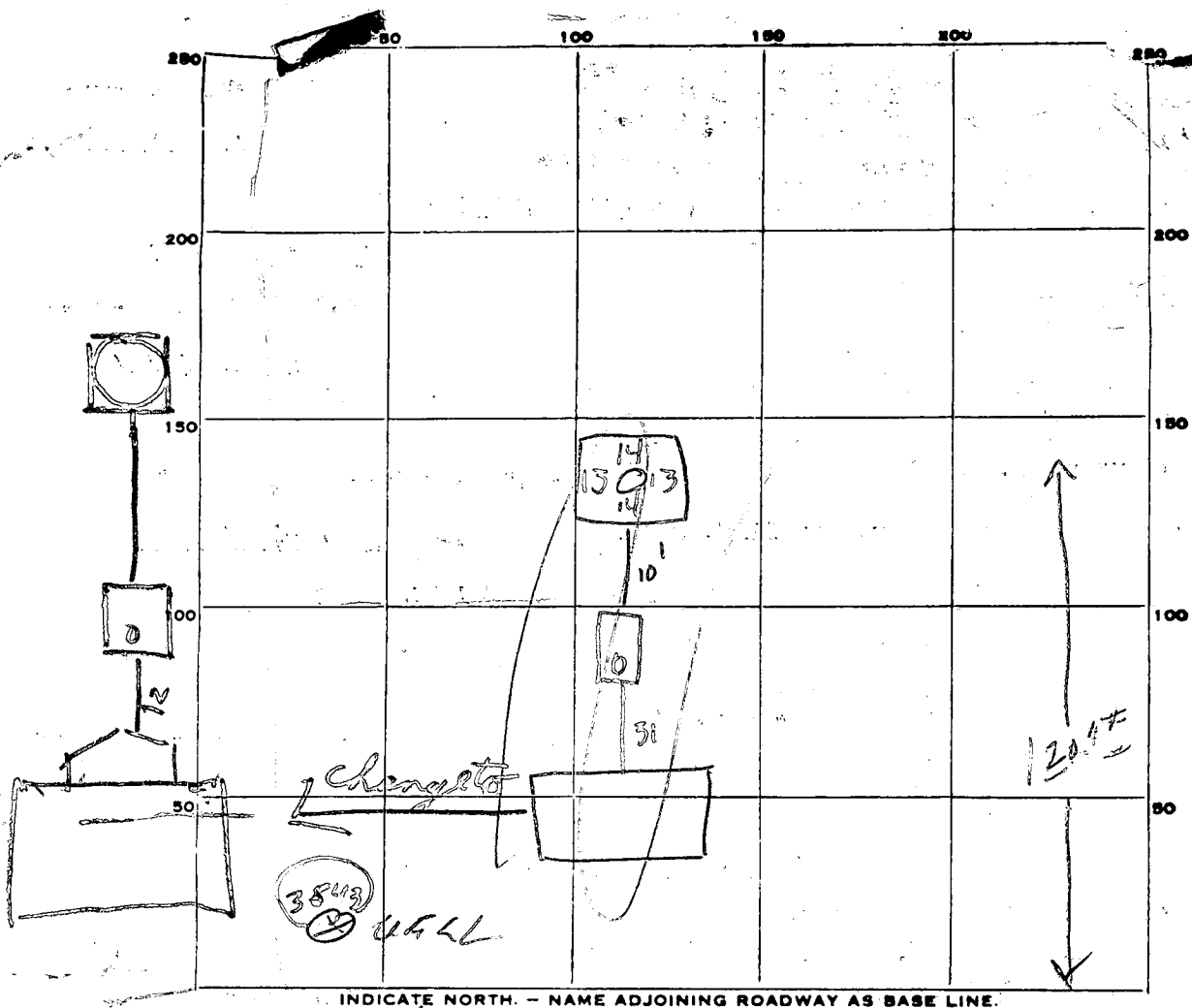
NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON.

PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA ACCEPTED.

\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

A 28141



inset at House 1' 60.9

INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

(W)

PERMIT CARD

SEPTIC TANK, LEVEL  CLEANOUTS

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

TILE FIELD, DEPTH \_\_\_\_\_ FT. TRENCH WIDTH \_\_\_\_\_ FT.

GRAVEL DEPTH \_\_\_\_\_ IN. TOTAL LENGTH \_\_\_\_\_ FT.

NUMBER OF TRENCHES \_\_\_\_\_ TOTAL BOTTOM AREA \_\_\_\_\_

SEEPAGE PITS, INSIDE DIAMETER 54 FT. DEPTH BELOW INLET 9' FT.

ABSORBENT AREA 486 SQ. FT.

REMARKS  
 9-21-80 Stop work. Dig well in wrong location.  
 9-26-80 Move septic tank to 12' from house, keep inlet as shallow as possible to get to repair area 20' from house at 3 1/2 ft GK  
 9/30/80 TANKED MOVED 12 FT FROM HOUSE TOP OF TANK ABOUT 6" BELOW GRADE

DATE SYSTEM APPROVED 9/30/80 INSPECTOR Raymond Gody

# APPLICATION

A 28141

P \_\_\_\_\_

## SEWAGE DISPOSAL TESTING

STATE OF MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE

DISTRICT 3rd

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

DATE 6/2/78

P.O. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-5000, EXT. 356

SEE SEPARATE SHEETS FOR SPECS

BLDG. PERMIT SIGNED  
AND RETURNED 8/22/80  
Serial No. 44202  
Pole Barn - Norem

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

BLDG. PERMIT SIGNED  
AND RETURNED 4/14/80  
Serial # 45868

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

Sandra E. Carlson  
Dr. Richard Hemphill

PROPERTY OWNER

ADDRESS 5009 West Durham Road  
Columbia, Md 21044 PHONE 997-5576

PROPERTY LOCATION:

SUBDIVISION Triadelphia Farms II LOT NO. 9A

ROAD AND DESCRIPTION 13346  
Triadelphia Road

SIZE OF LOT ? TYPE BLDG. (3) or 4 bedrooms  
NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE \_\_\_\_\_

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT /s/ Dennis M. Rush

APPROVED BY Raymond Hodges FOR DRY WELL DATE 12/26/79  
(KIND OF SYSTEM)

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

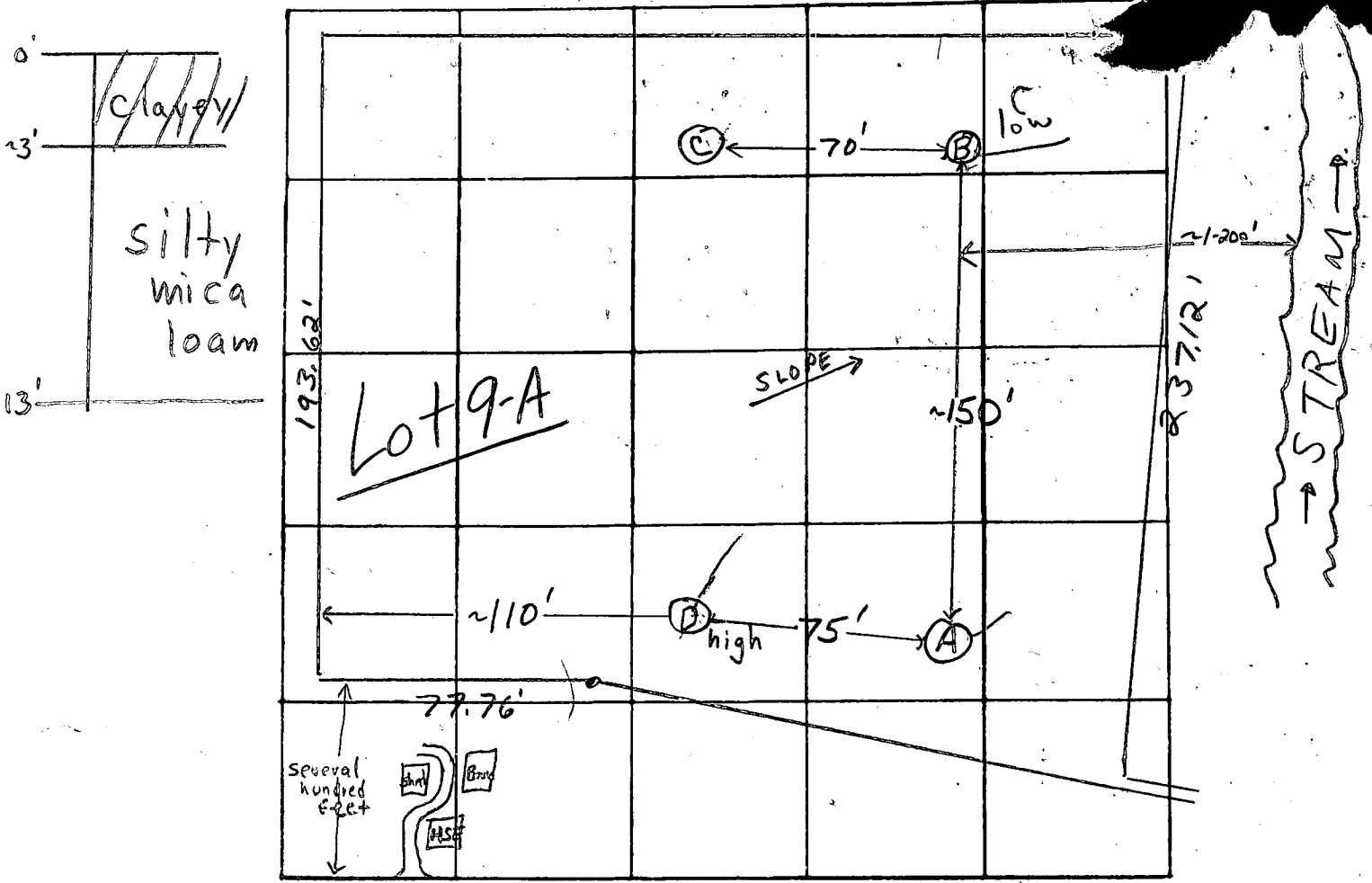
HOLD PENDING FURTHER TESTS in wet season DATE 6/30/78

REASONS FOR REJECTION OR HOLDING low area near underground water

3/12/79 - PERC OK THIS YEAR BUT HOLD FOR REVIEW DANGER

OF WATER IN 1978 RH 4/26/79 PERC OK BUT CERTIFIED  
HOLES SHOWING PROPER LOCATION OF SEWAGE  
AREA NOT NEAR WELLS BUT NEEDED RH

4/27/78  
BOENBER  
SAID THIS PLAY SIGNED BY HO WHEN I WAS ON VACATION RH  
**THIS IS NOT A PERMIT**



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Triadelphia Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
4/27/78	A-1	4'	4:18	—	—	4:25	7min	
	A-2	12 1/2'	4:18	4:25	4:25	4:40	15 min	
	B-1 low	3 1/2'	3:58	—	—	4:06	8min	
	B-2	13 1/2'	3:58	4:23	pulled pipe @ 4:30	4:30	FAILS (near water?)	
	C	12'	clayey to 3' silty loam below					
	D-1 high	4'	3:55	—	—	4:00	5min clayey to 3'	
	D-2	14 1/2'	3:55	4:02	4:02	4:16	14min	
3/9/79	1D	12	1:47	1:50	1:50	1:55	5	
	1S	4	1:47	1:50	1:50	1:53	3	
	2D	13 1/2	1:49	1:54	1:54	2:03	9	
	2S	4 1/2	1:49	1:53	1:53	1:57	4	
	3D	13 1/2	1:58	2:06	2:06	2:18	12	
	3S	4	1:59	2:00	2:00	2:04	4	
	4V	11 1/2	ALL SAND					DRY


REMARKS No obs

TYPE OF SOIL silty mica loam below top ~3' clayey soil

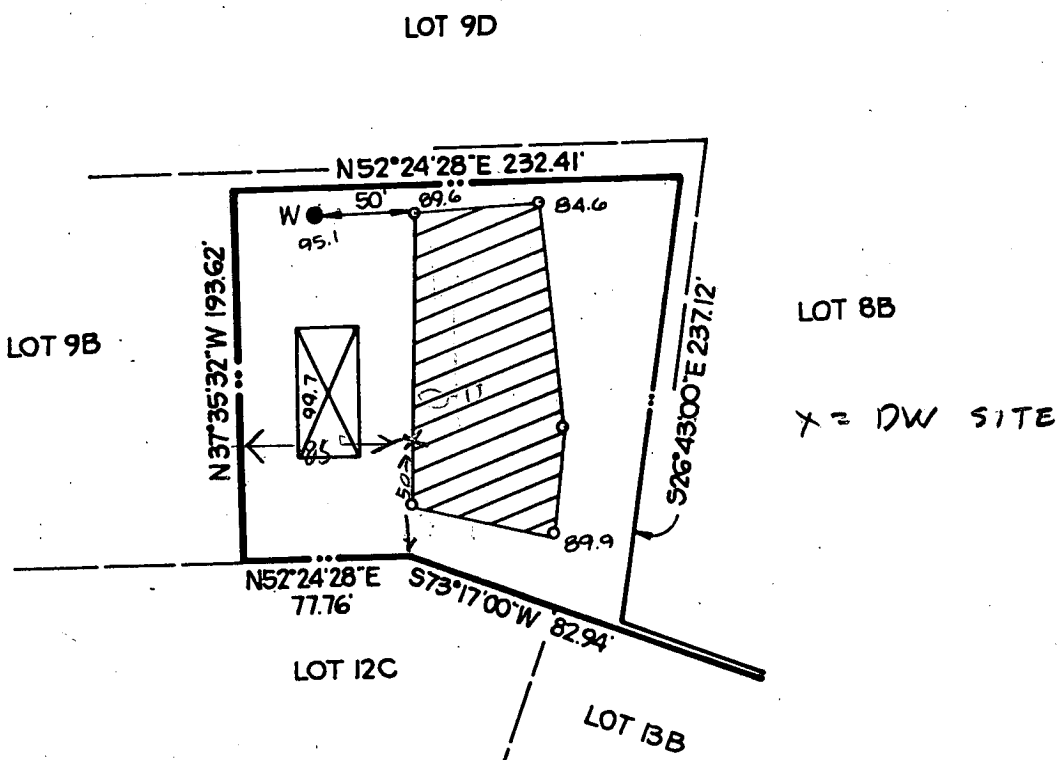
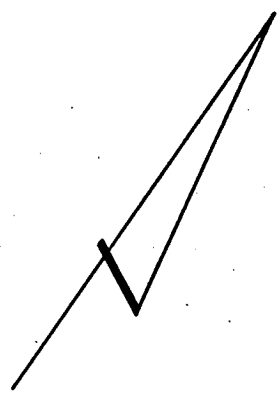
TESTED BY F.S.

ALSO PRESENT: Buittinghams Cross, S. Barber (for S. Barber)



 This area of approximately 10,000 sq. feet indicates a private sewage easement as required by the Maryland State Department of Health and Mental Hygiene for individual disposal. Improvements of any kind in this area are restricted until public sewage is available and servicing any residential structures constructed on this site. This easement shall become null and void upon connection to a public sewage system.

Field run elevations are based on assumed data. Percolation test holes have been field located and indicated as "o".



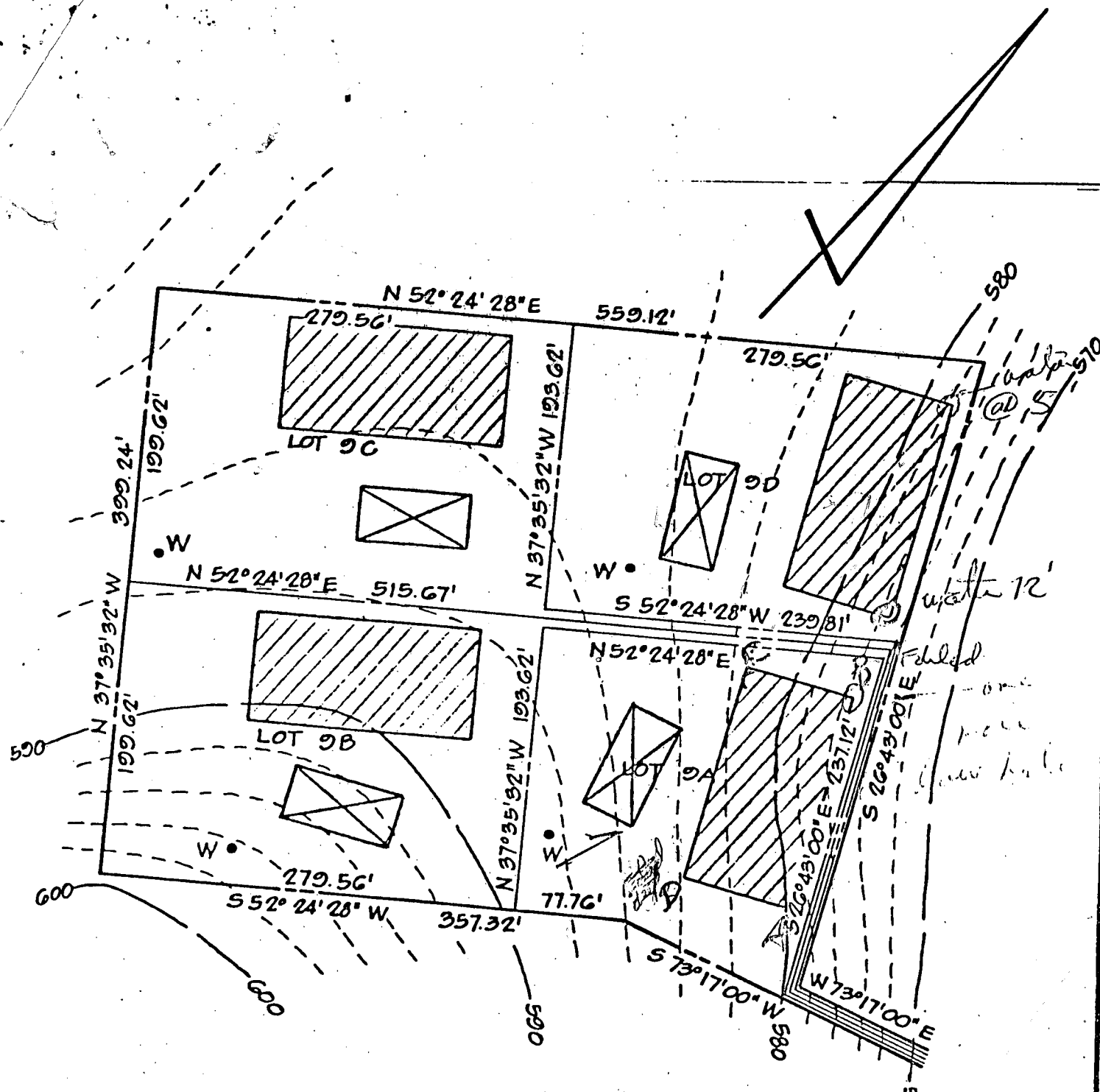
THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT

*Jocelyn Boyden* 4-18-79  
 COUNTY HEALTH OFFICER DATE



TITLE				<b>PERCOLATION TEST PLAT</b>			
PROJECT				<b>TRIADELPHIA FARMS II · LOT 9A</b>			
LOCATION				3 RD ELECTION DISTRICT		HOWARD COUNTY, MARYLAND	
DATE:	MARCH, 1979	DESIGN BY:	-	DRAWN BY:	DLC.	CHECKED BY:	J.A.B.
SCALE:	1" = 100'	JOB NO.:	77228	DRAWING NO.:	1 OF 1		
boender associates				engineers surveyors planners			
BALTIMORE 301-465-7777 ♦ SALISBURY 301-749-1286							



NOTES:

1. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE.
2. PERCOLATION TEST HOLES HAVE BEEN FIELD LOCATED.
3. TOPO SHOWN HEREON IS BASED ON U.S.G.S. TOPOGRAPHIC SURVEY MAPS.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER

TITLE <b>PERCOLATION TEST PLAT</b>			
PROJECT <b>TRIADELPHIA FARMS - SECT. 2 - LOTS 9A, B, C, AND D</b>			
LOCATION <b>3RD ELECTION DISTRICT</b>		<b>HOWARD CO., MD.</b>	
DATE: <b>APRIL, 1978</b>	DESIGN BY: -	DRAWN BY: <b>J.J.B.</b>	CHECKED BY: -
SCALE: <b>1" = 100'</b>	JOB NO.: <b>77228</b>	DRAWING NO.: <b>1 OF 1</b>	

boender associates

engineers  
 surveyors  
 planners

B 1 5554

SEQUENCE NO. (WRA USE ONLY)

STATE OF MARYLAND WATER RESOURCES ADMINISTRATION TAWES STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401 APPLICATION FOR PERMIT TO DRILL WELL

WRA PERMIT NUMBER

HO-73-3543

FILL IN THIS FORM COMPLETELY

1 2 3 (SEQ. NO.) 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

DATE RECEIVED (WRA USE ONLY)

2/1/80 1:30 p.m.

OWNER

COL 15 LAST NAME

FIRST NAME

COL. 34

STREET OR RFD

COL 36

COL. 55

POST OFFICE

COL 57

COL. 76

B 1 CONTINUED

DRILLER INFORMATION

1 2 3 (SEQ. NO.) 6

DATE Dec 13 1979

LICENSE NUMBER 213 77 80

FIRST NAME RALPH DRILLER LAST NAME MAWEE

SIGNATURE Ralph Mawee

B 3

LOCATION OF WELL

1 2 3 (SEQ. NO.) 6

COUNTY Howard (DO NOT ABBREVIATE COUNTY NAME) 21

SUBDIVISION TRINITY 23 42

SECTION D 44 46 LOT A 48 50

NEAREST TOWN GLENMELB 52 71

MILES FROM TOWN (ENTER 0 IF IN TOWN) 73 76 77 78

B 2

WELL INFORMATION

1 2 3 (SEQ. NO.) 6

MAXIMUM PUMPING RATE (GALLONS PER MINUTE) 5 8 12

AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY) 500 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
F FARMING, AGRICULTURE, IRRIGATION
I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT.
M MUNICIPAL WATER SUPPLY
P PRIVATE WATER COMPANY
T TEST

B 4

DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOX)

Grid for direction from town with options N, E, S, W, NE, SE, NW, SW and distance from road.

APPROXIMATE DEPTH OF WELL 24 100 26 FEET

APPROXIMATE DIAMETER OF WELL 6 (NEAREST INCH)

METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD)

- BORED (OR AUGERED) JETTED DRIVEN
AIR-ROTARY AIR-PERCUSSION ROTARY (HYDRAULIC ROTARY)
CABLE REVERSE-ROTARY DRIVE-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
D THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

NOT TO BE FILLED IN BY DRILLER (WRA USE ONLY)

Grid for appropriation permit number, force, conditions, and engineer review district no.

B 4 CONTINUED

HEALTH DEPARTMENT APPROVAL

STATE HEALTH COUNTY NAME Howard COUNTY NO. A20141
DATE 12 26 79 APPROVED BY Ronald H. ...

NORTH COORDINATE 50 51 52 53 54 55
EAST COORDINATE 57 58 59 60 61 62 63
ELEVATION AT WELL HEAD (FEET) 65 66 67 68

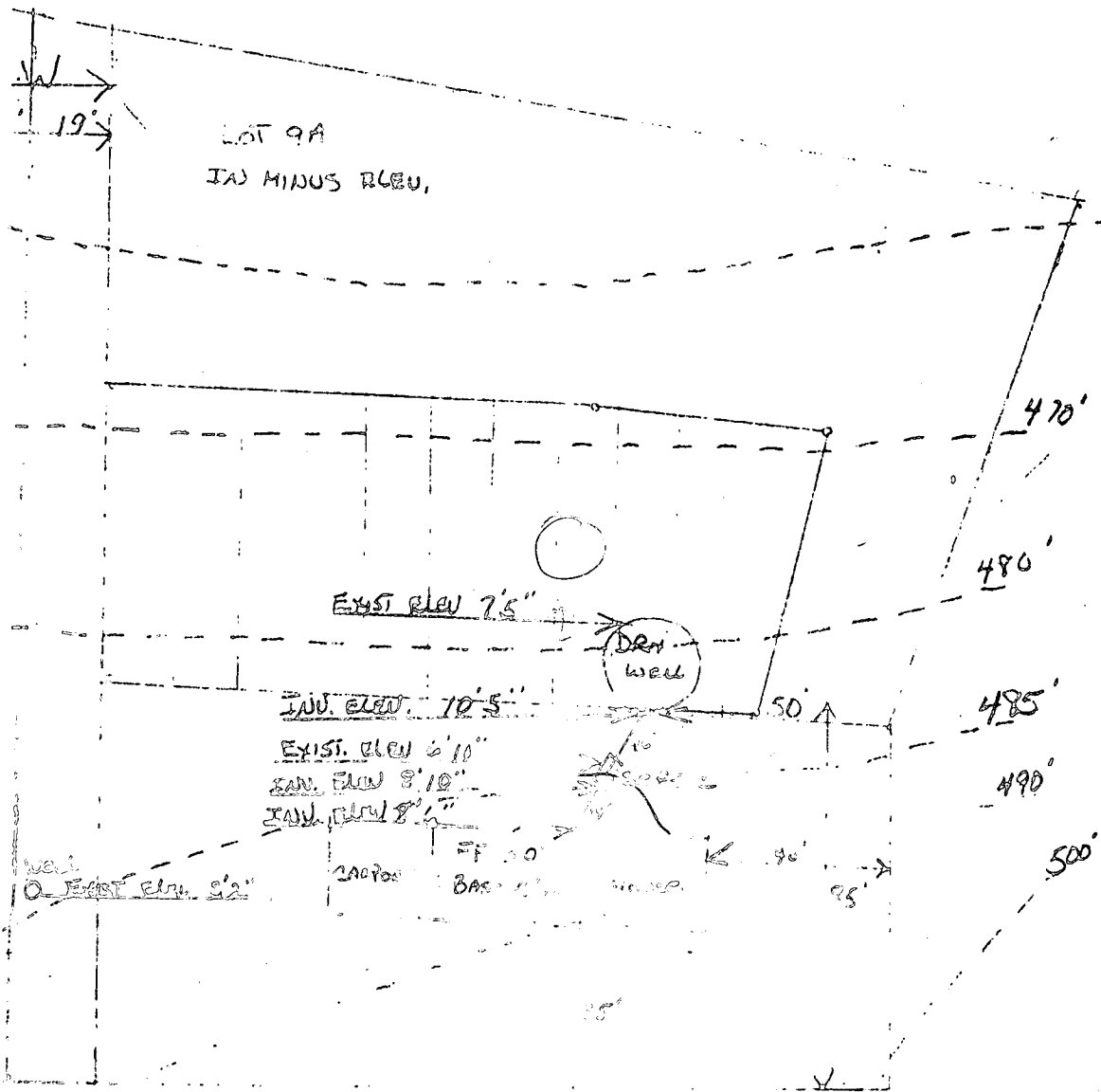
B 5

SPECIAL CONDITIONS 8-63 (WRA USE ONLY)

Handwritten notes: 42' casing, 2' Above gr., 37' open, 12' Bags cement, 2/1/80

ALL ELEVATIONS ARE NEGATIVE  
 EXISTING ELEVATION AT LA WELL ARE THE  
 SAME ELEVATION AT TIME OF PERC TEST

4/14/80 PLANS O/K  
 B.H.



↓ verify the above measurements and elevations are actual  
 ↓ correct for this property  
 Thomas Keadwell

4" - 10"

August 22, 1980

Ms. Sandra Carlson  
5009 West Durham Road  
Columbia, Maryland 21044

Dear Ms. Carlson:

This office has approved the building permit application #44202 to erect a pole building for horses. Please be advised that this structure must be at least 300 feet removed from any dwellings (except both yours and Ms. Miller's).

Very truly yours,

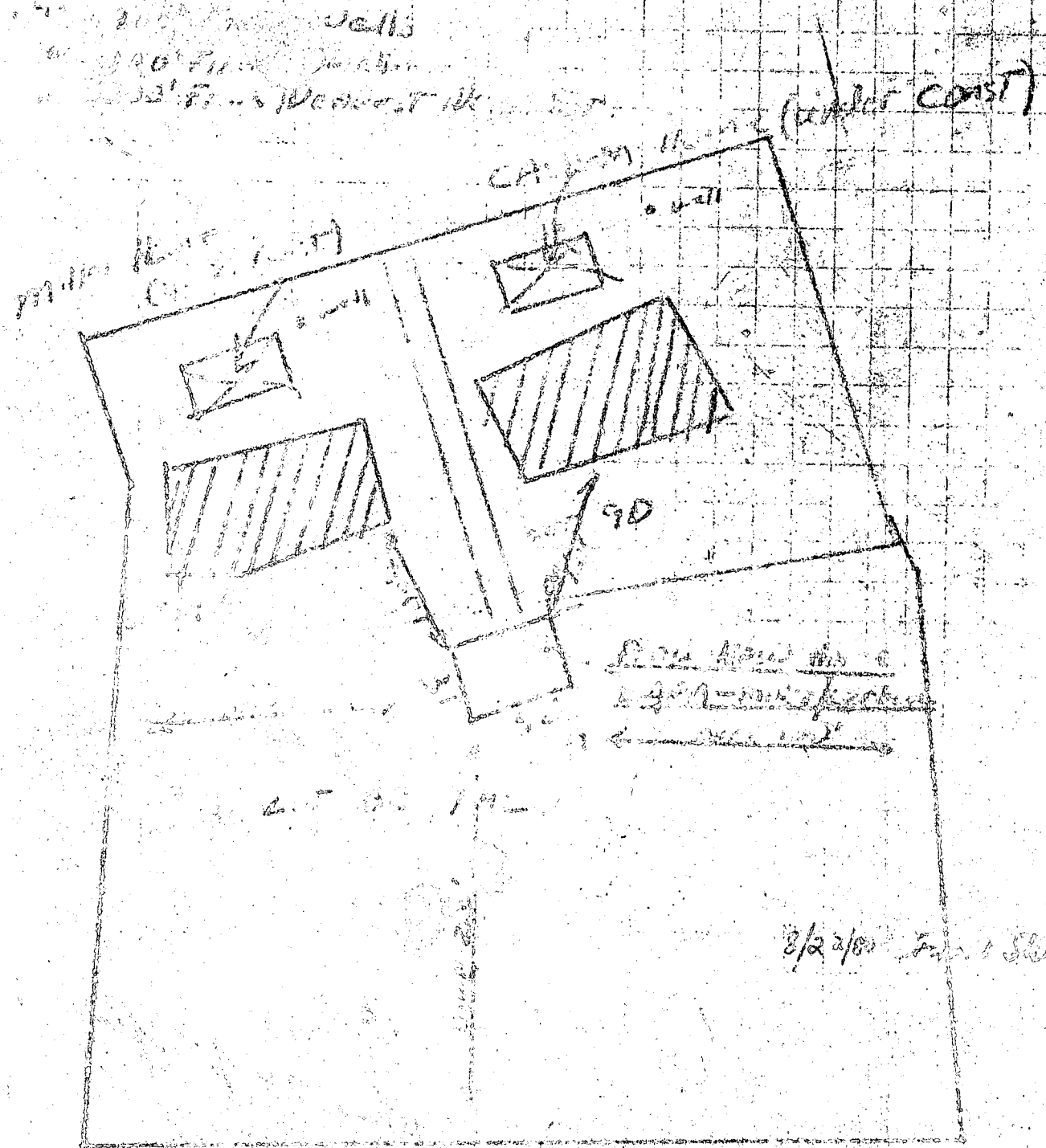


Frank A. Skinner  
Sanitarian

FAS:hs

Note:  
Proposed to be:  
One well in the center  
Two wells  
100' from  
20' from

# PLOT PLAN



TERRACON R.F.

8/22/80

8/22/80 No proposed houses  
or existing houses on adjacent  
properties or within 300 ft  
of proposed house site

C 1 **1278** SEQUENCE NO. (WRA USE ONLY)

1 2 3 (SEQ. NO.) 6  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

**STATE OF MARYLAND**  
**WATER RESOURCES ADMINISTRATION**  
**TAWES STATE OFFICE BLDG., ANNAPOLIS, MD. 21401**  
**WELL COMPLETION REPORT**

THIS REPORT MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL COMPLETION

FILL IN THIS FORM COMPLETELY

COUNTY NUMBER **MD-191**

DATE RECEIVED (WRA USE ONLY)

**Feb 1 1980**

8-13

DEPTH OF WELL **305**

22 (TO NEAREST FOOT) 26

PERMIT NO. FROM "PERMIT TO DRILL WELL"

**H0-73-3543**

28 29 30 31 32 33 34 35 36 37

DRILLERS IDENTIFICATION NO. **273**

OWNER **MOORE Edward T** LAST NAME FIRST NAME

STREET OR RFD **3109 PAULSKIRK DR** POST OFFICE **ELL.COTT CITY MD**

**WELL LOG**

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

DESCRIPTION (USE ADDITIONAL SHEETS IF NECESSARY)	FEET		CHECK IF WATER BEARING
	FROM	TO	
Top So. L	0	2	
Sandy	2	37	
Sand Stone	37	45	✓
Mickn	45	50	
Sand Stone	50	55	✓
Mickn	55	305	

**GROUTING RECORD**

WELL HAS BEEN GROUTED (CIRCLE APPROPRIATE BOX)  YES  NO

TYPE OF GROUTING MATERIAL (CIRCLE BOX)

CEMENT  M BENTONITE CLAY  BC

NO. OF BAGS **12** NO. OF POUNDS **1200**

GALLONS OF WATER **72**

DEPTH OF GROUT SEAL (TO NEAREST FOOT)

FROM **0** FT. TO **37** FT. (ENTER 0 IF FROM SURFACE)

**CASING RECORD**

INSERT APPROPRIATE CODE BELOW

ST STEEL  CO CONCRETE

PL PLASTIC  OT OTHER

MAIN CASING TYPE  S NOMINAL DIAMETER TOP (MAIN) CASING (NEAREST INCH) **6** TOTAL DEPTH OF MAIN CASING (NEAREST FOOT) **42**

**OTHER CASING (IF USED)**

DIAMETER (INCH) \_\_\_\_\_ DEPTH (FEET) FROM \_\_\_\_\_ TO \_\_\_\_\_

**SCREEN RECORD**

INSERT APPROPRIATE CODE BELOW

ST STEEL  BR BRASS OR BRONZE  HO OPEN HOLE

PL PLASTIC  OT OTHER

**DEPTH (NEAREST WHOLE FOOT)**

FROM **40** TO **305**

SCREEN TYPE OR OPEN HOLE

SCREEN NO. **H0**

SLOT SIZE 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

DIAMETER OF SCREEN **56** (NEAREST INCH) FROM \_\_\_\_\_ TO \_\_\_\_\_

GRAVEL PACK \_\_\_\_\_

IF WELL DRILLED WAS A FLOWING WELL CIRCLE BOX  68  F

WRA USE ONLY (NOT TO BE FILLED IN BY DRILLER) (E.R.O.S.)

TELESCOPE CASING  70 LOG INDICATOR  72 OTHER DATA AVAILABLE  74  75  76

**PUMPING TEST**

HOURS PUMPED (TO NEAREST HOUR) **6**

PUMPING RATE (GALLONS PER MINUTE TO NEAREST GALLON) **2**

METHOD USED TO MEASURE PUMPING RATE **Bucket**

WATER LEVEL: (DISTANCE FROM LAND SURFACE)

BEFORE PUMPING **35** (NEAREST FOOT)

WHEN PUMPING **305** (NEAREST FOOT)

TYPE OF PUMPED USED (CIRCLE APPROPRIATE BOX) (FOR PUMPING TEST)

A AIR  P PISTON  T TURBINE

C CENTRIFUGAL  R ROZARY  O OTHER (DESCRIBE BELOW)

J JET  S SUBMERSIBLE

**PUMP INSTALLED**

TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: A, C, J, P, R, S, T, O)

DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX)  YES  NO

CAPACITY:

GALLONS PER MINUTE (TO NEAREST GALLON) **31** **35**

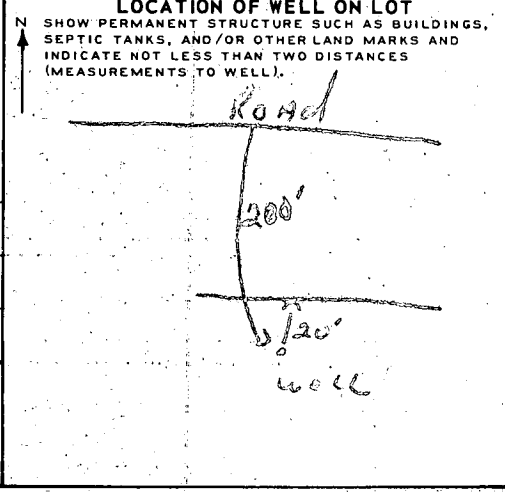
PUMP HORSE POWER **37** **41**

PUMP COLUMN LENGTH (NEAREST FOOT) **43** **47**

CASING HEIGHT (CIRCLE APPROPRIATE BOX, AND ENTER CASING HEIGHT)

+ ABOVE } LAND SURFACE (NEAREST FOOT) **2**

- BELOW }



**CIRCLE APPROPRIATE BOXES**

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

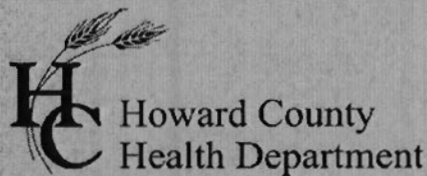
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "PERMIT TO DRILL WELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

DRILLERS NAME **Ralph MAYNE**

(PLEASE PRINT) **Ralph MAYNE**

SIGNATURE **Ralph MAYNE**



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

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 7/19/13 **ONSITE SEWAGE DISPOSAL SYSTEM** P 545094

INSTALLATION  
 APPROVAL DATE: 12/18/13 **PERMIT** A \_\_\_\_\_  
 (K.M.W.)  
**REPAIR**

PROPERTY ADDRESS: 13261 Hunt Ridge Road  
 SUBDIVISION: Triadelphia Farms II LOT: 9-A TAX ID: 03-302172  
 CONTRACTOR: Garland Brian EMAIL: \_\_\_\_\_  
 CONTRACTOR ADDRESS: 12871 Highland Road PHONE: 301-854-2161  
 PROPERTY OWNER: Kathleen Farris EMAIL: \_\_\_\_\_  
 OWNER ADDRESS: 13261 Hunt Ridge Road PHONE: 410-227-3290

SEPTIC TANK SIZE (GALLONS): 1500 defer to BAT mnfx  
 PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ PUMP SIZE: \_\_\_\_\_  
 NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. 2780 APPLICATION RATE: 1.2  
 DISTRIBUTION SYSTEM: GRAVITY FED  LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>90'</u> ✓	INLET DEPTH: <u>3</u> ✓
	TRENCH WIDTH: <u>2</u> ✓	MAXIMUM BOTTOM DEPTH: <u>7</u> ✓
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set BAT unit per plan. Hoot 600BNR 0.4 hp Goulds pump. Set distribution box per plan. Install 2 x 45' trenches on contour toward southeast boundary. Tank must be traffic bearing design. *Pump and properly abandon existing septic tank and drywell.	

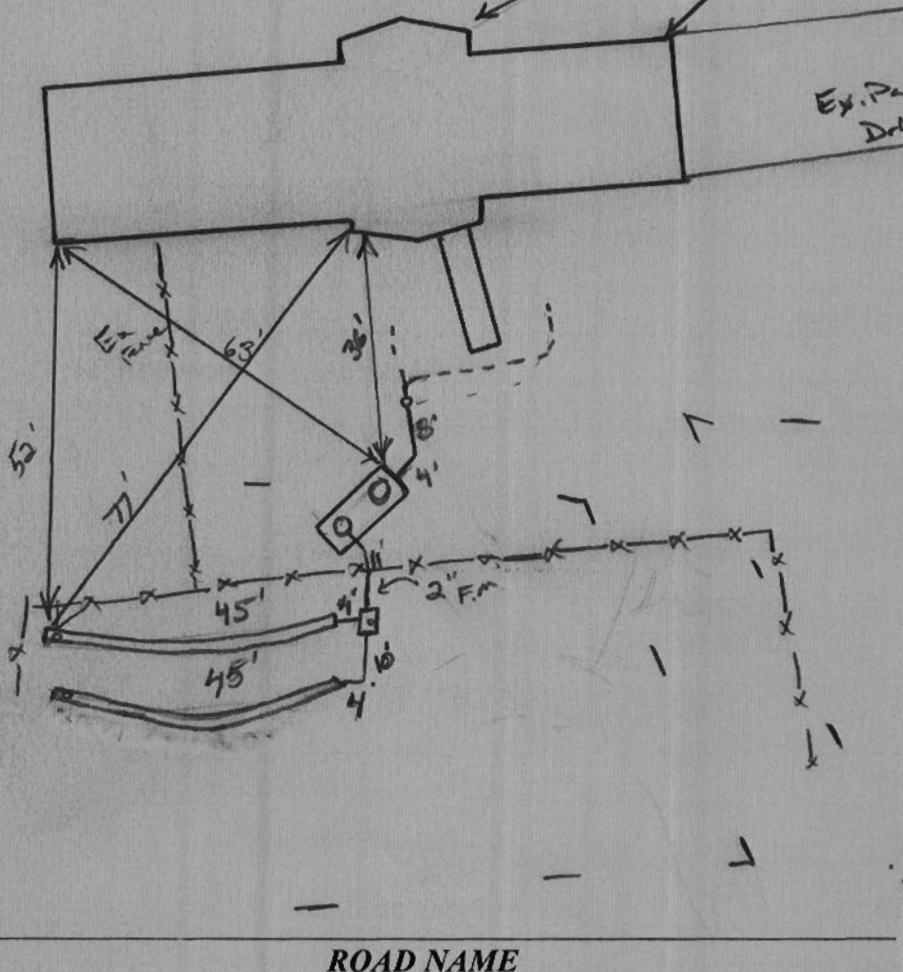
ISSUED BY: Robert Bricker ISSUE DATE: 10/3/13 EXPIRATION DATE: 7/19/14

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

**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 TO SCHEDULE INSPECTIONS.**

HO-73-3543

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		90'
ABSORPTION AREA		180' + SW
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		90° bend
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Mayer Bros
CAPACITY	600BNR GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2'
BAFFLES	Yes
BAFFLE FILTER	
MANHOLE LOC	Front/Rear
6" PORT LOC	none
WATERTIGHT TEST	-
SLOTTED	Yes
DATE ON LID	N/A

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

ROAD NAME

CONSTRUCTION:

12/2/13 OK to set BAT per approved site plan. Contractor did not have laser on-site. No layout given. Homeowner wants to stay away from maple tree behind house. Contour sits on large knoll @ corner of RA. Trench specs look OK (KW)

INSTALLATION:

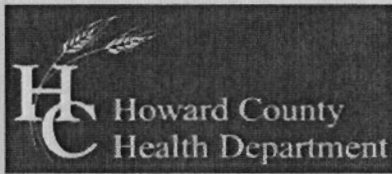
12/3/13 Hoot tank set. Shot contour in field. OK to set Dbox per approved site plan, install 2x45' trenches on contour heading towards Folly Quarter rd. Keep trench grade as shown. OK to activate (KW)  
 12/4/13 Making final connections to Hoot tank, blower etc. Trenches just about complete. OK to cover all work when finished. Need start-up certification from BAT manufacturer. (KW)  
 11/8/13 Certification received.

LOCAL INSPECTOR

*K. Wolf*

DATE OF APPROVAL

12/18/13



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21045-2147
Main: 410-313-2640 | Fax: 410-313-2646
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealthn.org
Facebook: www.facebook.com/nocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM

THIS AGREEMENT is made this 18 day of July, 2013 among Kathleen Ferris, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 13261 Hunt Ridge, Ellicott City, MD, in the Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber Folio.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

Kathleen Ferris owner 13261 Hunt Ridge, Ellicott City MD

Bureau Dir
Hs Co. Health Dept:

long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Kathleen Farris      7/19/13      \_\_\_\_\_  
Owner                                  Date                                  Owner                                  Date

Beet Nufen      7/19/2013  
Howard County Health Department

LIBER 15090 FOLIO 158

7/19/2013 09:36 AM Page 1 of 1-9 00  
/Ref: 0047059357 Grp: 000001 R/Lne 000001  
01 - Main Location  
\$0.00  
Validation Number: 0047-000405  
1000000000-1300-409910-1300000000-999999  
9999999999  
Parcel Number: 11111111  
Doc Type: Easements  
Consideration Amount: \$0.00

000165

**AGREEMENT AND EASEMENT FOR INSTALLATION  
OF BEST AVAILABLE TECHNOLOGY SYSTEMS  
WITH BAY RESTORATION FUNDS.**

THIS AGREEMENT is made this 18 day of July 2013, among Kathleen Farris

hereinafter referred to as "Owner," the Howard County Health Department hereinafter collectively referred to as the "County," and the Department of the Environment, hereinafter referred to as the "Department."

WHEREAS, Owner owns a tract of land located on 13261 Hunt Ridge in the Ellicott City MD 21042

Election District of Howard County, Maryland, and the deed to same is recorded among the Land Records of Howard County, Maryland, in \_\_\_\_\_ and in Liber \_\_\_\_\_ Folio \_\_\_\_\_.

WHEREAS, the Bay Restoration Fund (BRF) may provide a grant for the cost attributable to upgrading an onsite sewage disposal system to the Best Available Technology (BAT) for the removal of nitrogen.

WHEREAS, the BRF may also provide a grant for the cost difference between a traditional onsite sewage disposal system and a system that utilizes the BAT for the removal of nitrogen.

WHEREAS, Owner understands that participation in the Bay Restoration Fund is voluntary.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the Department and the County the right to enter upon the property at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data requested and needed by the Department to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that a manufacturer-approved installer will install the BAT system.

*Kathleen Farris 18 July 2013*

Health Dept Bureau Director:

acknowledges and agrees the manufacturer will provide for Operation and Maintenance of the BAT for a period of 5 years as a condition of sale of the BAT. After the 5 year period the Operation and Maintenance contract can be further extended at the behest of the property owner. The Department and County encourage the property owner to continuously maintain an Operation and Maintenance contract during the lifetime of the system.

Owner acknowledges and agrees that the manufacturer appointed Operation and Maintenance provider will have access to the BAT system at all times.

Owner acknowledges and agrees that the manufacturer or manufacturers designee will have access to sample the effluent of the BAT system. Owner acknowledges and agrees that the proposed installation of a BAT system funded by the BRF is voluntary. Owner agrees that there shall be no liability on the part of the County or Department to Owner if this BAT system fails, and that the County and the Department do not warrant or guarantee that the BAT system will adequately or properly function.

Owner acknowledges and agrees that neither the County nor the Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.

The Owner will devote such care and effort to the maintenance of the BAT system so that any malfunction is not the result of poor maintenance, faulty operation, or neglect.

The Canaan Valley Institute agrees to grant \$\_\_\_\_\_ toward the cost of installation of the BAT system, and financial responsibility is limited to this amount. Operating costs will be at the Owners expense.

The Owner acknowledges that the BRF grant can only be used for that portion of the OSDS attributable to (BAT) for the removal of nitrogen.

acknowledges in the event the total project cost is greater than \$25,000 the proposal will have to be approved by the Maryland State Board of Public Works.

The Owner agrees to contact both the Water Management Administration, On-Site Systems Division of the Wastewater Permits Program and the County at least forty-eight (48) hours prior to system installation, so that the Department has the opportunity to be present at the time of installation or thereafter for inspection.

- L. The Owner must install BAT system according to the manufacturer recommended plans and specifications approved by the Department.
- M. The Owner agrees and acknowledges that if installation deviates substantially from the approved plans or changes such that performance of the system is compromised or reduced, BRF funding will not be provided.
- N. This agreement shall run with the land and binds the Owner, his heirs, successors, assigns except that the provisions of paragraph A, C, D and E shall be binding for a period of 5 years only after installation of the system and occupation of the home. Owner further agrees that he shall inform in writing any purchaser or lessee of the property that the system may require maintenance or other attention. The Owner agrees to record this agreement in the land records of Howard County.
- O. This agreement shall not be construed to limit any authority of the Department to protect the public health, safety or comfort or to issue any other orders to take any other action that is now or may hereafter be within its authority.
- P. This agreement may be voided at the discretion of the Department if the system construction is not completed within six (6) months of the effective date of this agreement.
- Q. This agreement contains the entire agreement and understanding between the County and the Owner and the Department. There are no additional terms other than as contained in this

This agreement may not be modified except in writing signed by each of the parties or by their authorized representatives.  
The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated

above.

DATE: 7/19/2013

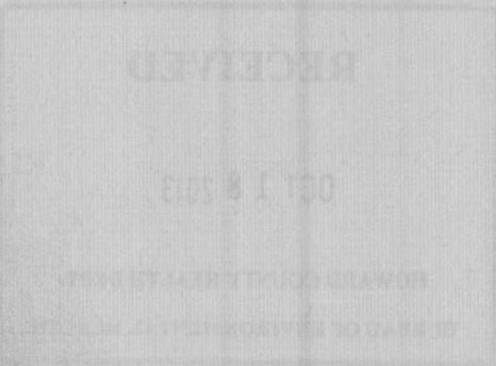
Kathleen Farris  
Owner Kathleen Farris

DATE: 7/19/2013

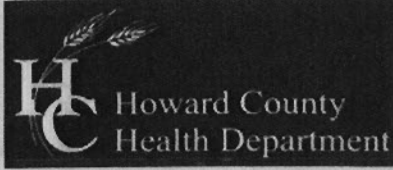
Beit Rifon  
Howard County Health Department

PAYMENT OF TAXES  
NOT NECESSARY  
Frankie Milesky  
DIRECTOR OF FINANCE OF HOWARD COUNTY  
OK

LR - Easement (No-Taxes)	
Recording Fee	20.00
Grantor Name: farris	
Reference/Control #: 185	
LR - Easement (No-Taxes)	
Surcharge	40.00
LR - Additional Recording	
Fee - linked	0.00
Subtotal:	60.00
Total:	133.00
#1807850-1	
07/19/2013 10:03 CC13-TR	
#1807850 CC0503 - Howard Co	
Columbia/CC05-03-01 -	
Register 01 396	



000166



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealthn.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM

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WHEREAS, Owner is the owner or contract owner of a parcel of land located at 13261 Hunt Ridge, Ellicott City, MD, in the Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber Folio.

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- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.
B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

Kathleen Farris owner 13261 Hunt Ridge, Ellicott City MD

20
40
TN
50
100

Bureau Dir
Ho Co. Health Dept:

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IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Kathleen Farris 7/19/13 \_\_\_\_\_  
Owner Kathleen Farris Date Owner Date

Beet Nuffer 7/19/2013  
Howard County Health Department

LR - Agreement Recording Fee 20.00  
Grantor/Grantee Name: Farris  
Reference/Control #: 166  
LR - Agreement Surcharge 40.00  
LR - Additional Recording Fee 0.00  
- linked  
Subtotal: 60.00  
Total: 133.00  
#1807850-8  
07/19/2013 10:03 CC13-TR  
#1807850 CC0503 - Howard Co  
Columbia/CO05.03.01 - Register  
01 396

Howard County, Maryland  
Department of Finance  
3430 Court House Drive  
Ellicott City, MD 21043

7/19/2013 09:36 AM Cashier 0031  
T/Ref 0047059357 Reg 0047 Tran No 9259  
Cash Report: 130719-01 for 7/19/2013

01 - Main Location  
Recordation Taxes  
1000000000-1300-409910-1300000000-999999  
9999999999  
Parcel Number: 11111111  
Doc Type: Easements  
Consideration Amount: \$0.00  
Method: Express  
Validation Number: 063405 \$0.00  
=====

Total	\$0.00
-------	--------

Thank You!

Clerk of the Circuit Court for  
Howard County  
Land Records/Licensing

The Thomas Dorsey Building  
9250 Bendix Road  
Columbia, MD 21045  
410-313-5850

*Lanny*

=====  
LR - Easement (No-Taxes) Recording Fee  
1x 20.00 20.00

Grantor Name: farris  
Reference/Control #: 165

LR - Easement (No-Taxes) Surcharge  
1x 40.00 40.00

LR - Additional Recording Fee - linked  
1x 0.00 0.00

LR - Agreement Recording Fee  
1x 20.00 20.00

Grantor/Grantee Name: farris  
Reference/Control #: 166

LR - Agreement Surcharge  
1x 40.00 40.00

LR - Additional Recording Fee - linked  
1x 0.00 0.00

LR - Certification of Copies  
1x 5.00 5.00

LR - Certification of Copies  
1x 5.00 5.00

LR - Photocopies (bulk)  
1x 2.00 2.00

LR - Photocopies (bulk)  
1x 1.00 1.00

=====  
SubTotal: 133.00  
Total: 133.00

=====  
REV-Check-BOA 133.00  
Number : 1425

07/19/2013 10:00 CC13-TR  
#1807850 /396/109  
Thank you for visiting us today~



**MAYER BROS., INC.**

*Precast Concrete Products*

6264 Race Rd. Elkridge, MD 21075

## Letter of Satisfaction Hoot System Installation

Address of Property: 13261 Hunt Ridge  
Ellicott City, MD 21042

Date of Final Inspection: 12/5/13

Installer: Garland L. Brian Sr. LLC

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

Name of Inspector  
Mayer Bros., Inc.

PH: 410-796-1434

FX: 410-796-1438

**WBE**  
**NPCA Certified Plant**

mayerbro@connext.net  
www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors,  
Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries,  
Scapewell Window Wells, Custom Precast Products

Maryland Department of Assessments and Taxation  
 Real Property Data Search (vw1.1A)  
 HOWARD COUNTY

[Go Back](#)  
[View Map](#)  
[New Search](#)  
[GroundRent](#)  
[Redemption](#)  
[GroundRent](#)  
[Registration](#)

**Account Identifier:** District - 03 Account Number - 302172

**Owner Information**

**Owner Name:** FARRIS KATHLEEN G **Use:** RESIDENTIAL  
**Mailing Address:** 13261 HUNT RDG **Principal Residence:** YES  
 ELLICOTT CITY MD 21042-1154 **Deed Reference:** 1) /05038/ 00156  
 2)

**Location & Structure Information**

**Premises Address:** 13261 HUNT RIDGE RD  
 ELLICOTT CITY 21042-0000  
**Legal Description:** LOT 9-A 1.080 AR  
 13261 HUNT RIDGE SWS  
 TRIADELPHIA FARMS II

Map	Grid	Parcel	Sub District	Subdivision	Section	Block	Lot	Assessment Area	Plat No: Plat Ref:
0022	0009	0426		0000			9 A	1	

**Special Tax Areas:** **Town** NONE  
**Ad Valorem** 100  
**Tax Class**

**Primary Structure Built:** 1981 **Enclosed Area:** 1,496 SF **Property Land Area:** 1.0800 AC **County Use:**

**Stories:** NO **Basement:** NO **Type:** STANDARD UNIT FRAME **Exterior:**

**Value Information**

	Base Value	Value As Of 01/01/2013	Phase-in Assessments	
			As Of 07/01/2012	As Of 07/01/2013
<b>Land</b>	223,800	190,300		
<b>Improvements:</b>	122,900	161,000		
<b>Total:</b>	346,700	351,300	346,700	348,233
<b>Preferential Land:</b>	0			0

**Transfer Information**

**Seller:** FARRIS EVAN M **Date:** 03/15/2000 **Price:** \$0  
**Type:** NON-ARMS LENGTH OTHER **Deed1:** /05038/ 00156 **Deed2:**  
**Seller:** MOORE SANDRA E **Date:** 09/04/1996 **Price:** \$299,900  
**Type:** ARMS LENGTH MULTIPLE **Deed1:** /03804/ 00501 **Deed2:**  
**Seller:** CARLSON SANDRA **Date:** 11/29/1988 **Price:** \$0  
**Type:** **Deed1:** /01920/ 00001 **Deed2:**

**Exemption Information**

Partial Exempt Assessments	Class	07/01/2012	07/01/2013
<b>County</b>	000	0.00	
<b>State</b>	000	0.00	
<b>Municipal</b>	000	0.00	0.00

**Tax Exempt:** **Special Tax Recapture:**  
**Exempt Class:** NONE

**Homestead Application Information**

**Homestead Application Status:** No Application



- C. Owner acknowledges and agrees the manufacturer will provide for Operation and Maintenance of the BAT for a period of 5 years as a condition of sale of the BAT. After the 5 year period the Operation and Maintenance contract can be further extended at the behest of the property owner. The Department and County encourage the property owner to continuously maintain an Operation and Maintenance contract during the lifetime of the system.
- D. Owner acknowledges and agrees that the manufacturer appointed Operation and Maintenance provider will have access to the BAT system at all times.
- E. Owner acknowledges and agrees that the manufacturer or manufacturers designee will have access to sample the effluent of the BAT system. Owner acknowledges and agrees that the proposed installation of a BAT system funded by the BRF is voluntary. Owner agrees that there shall be no liability on the part of the County or Department to Owner if this BAT system fails, and that the County and the Department do not warrant or guarantee that the BAT system will adequately or properly function.
- F. Owner acknowledges and agrees that neither the County nor the Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- G. The Owner will devote such care and effort to the maintenance of the BAT system so that any malfunction is not the result of poor maintenance, faulty operation, or neglect.
- H. The Canaan Valley Institute agrees to grant \$ \_\_\_\_\_ toward the cost of installation of the BAT system, and financial responsibility is limited to this amount. Operating costs will be at the Owners expense.
- I. The Owner acknowledges that the BRF grant can only be used for that portion of the OSDS attributable to (BAT) for the removal of nitrogen.

- J. Owner acknowledges in the event the total project cost is greater than \$25,000 the proposal will have to be approved by the Maryland State Board of Public Works.
- K. The Owner agrees to contact both the Water Management Administration, On-Site Systems Division of the Wastewater Permits Program and the County at least forty-eight (48) hours prior to system installation, so that the Department has the opportunity to be present at the time of installation or thereafter for inspection.
- L. The Owner must install BAT system according to the manufacturer recommended plans and specifications approved by the Department.
- M. The Owner agrees and acknowledges that if installation deviates substantially from the approved plans or changes such that performance of the system is compromised or reduced, BRF funding will not be provided.
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IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated

above.

DATE: 7/19/2013

Kathleen Farris  
Owner

DATE: 7/19/2013

Bev Nifan  
Howard County Health Department



GOULDS PUMPS Wastewater



GOULDS PUMPS Wastewater

- APPLICATIONS**  
Specifically designed for the following uses:
- Effluent systems
  - Homes
  - Farms
  - Heavy duty sump
  - Water transfer
  - Dewatering
- SPECIFICATIONS**
- Solids handling capability: 1/2" maximum.
  - Capacities: up to 60 GPM.
  - Total heads: up to 31 feet.
  - Discharge size: 1 1/2" NPT.
  - Mechanical seal: carbon-rotary/ceramic-stationary, BUNA-N elastomers.
  - Temperature: 104° F (60° C) continuous, 140° F (60° C) intermittent.
  - Fasteners: 300 series stainless steel.
  - Capable of running dry without damage to components.

- Motor:**
- EP04 Single phase: 0.4 HP, 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
  - EP05 Single phase: 0.5 HP, 115 V or 230V, 60 Hz, 1550 RPM, built in overload with automatic reset.
  - Power cord: 10 foot standard length, 16/3 STW with three prong grounding plug. Optional 20 foot length, 16/3 STW with three prong grounding plug (standard on EP05).
  - Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.

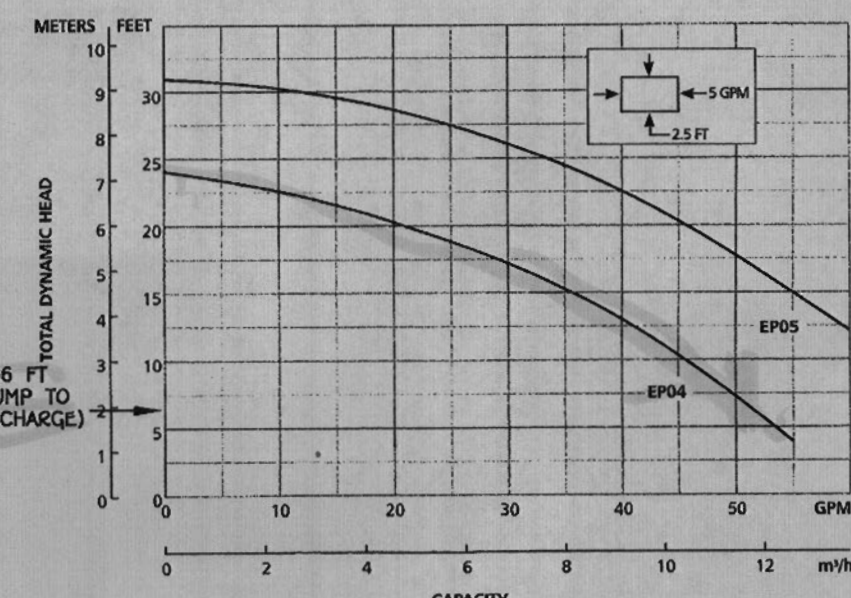
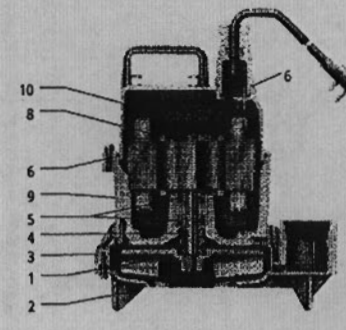
Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.

**PERFORMANCE RATINGS**

Total Head (ft. of water)	Gallons Per Minute
5	53
10	46
15	38
20	31
25	24
30	17

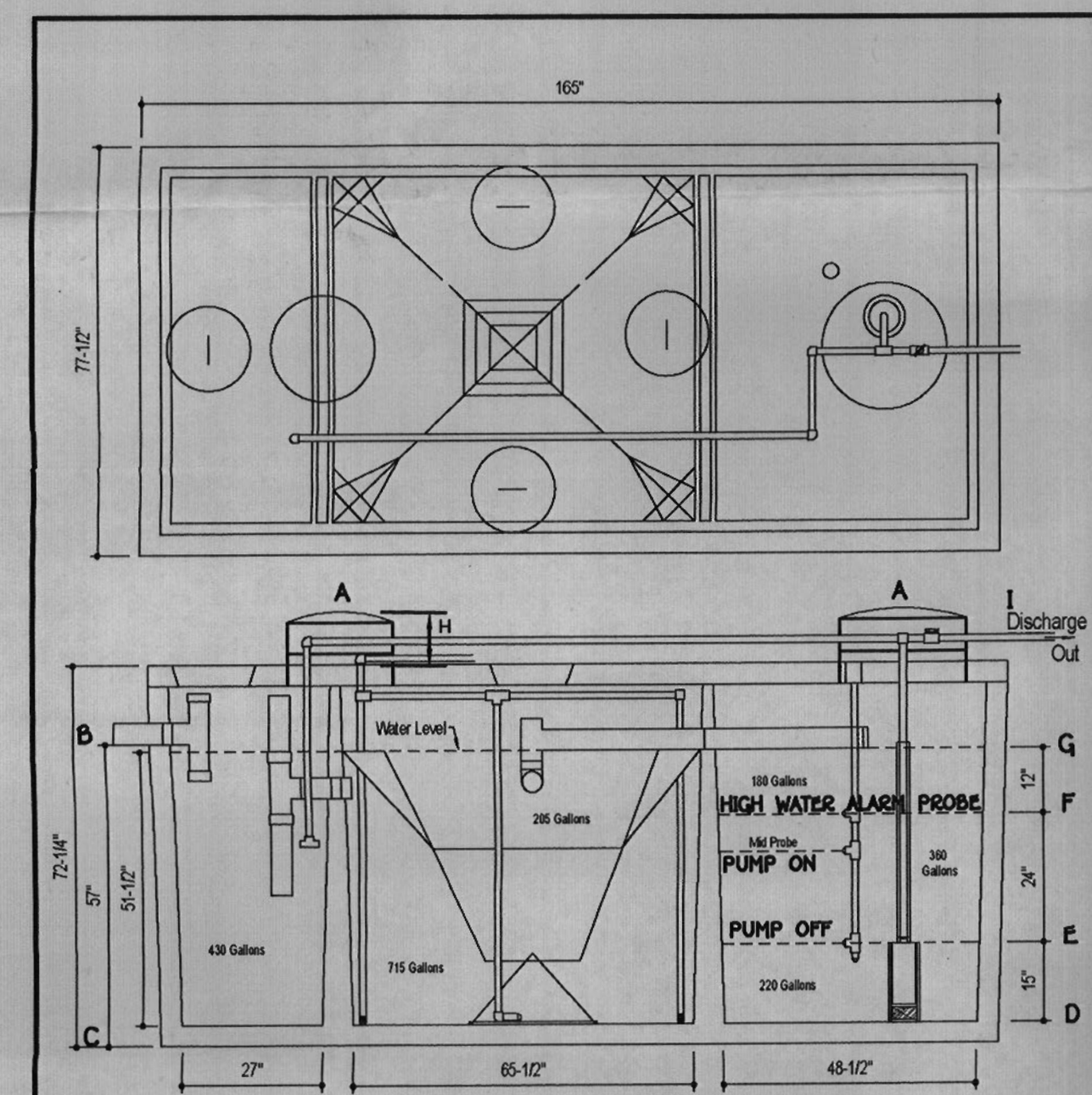
**COMPONENTS**

Item No.	Description
1	Impeller
2	Base
3	Pump Casing
4	Mechanical Seal
5	Ball Bearings
6	O-Rings
7	Power Cord
8	20' Fiberglass Motor
9	Motor Housing/ Stator Assembly
10	Motor Cover



**MODEL INFORMATION**

Order No.	HP	Volts	Amperage	Phase	Float Switch Style	Cord Length	Discharge Connection	Minimum On Level	Minimum Off Level	Minimum Basin Diameter	Maximum Solids Size	Shipping Weight (lbs.)
EP0411	1/2	115	12	20	Flag / No Switch	10'	1 1/2"	Manual	15'	15"	1/2"	20/8.1
EP0411A	1/2	115	12	20	Piggyback / Wide-Angle	10'	1 1/2"	Manual	15'	15"	1/2"	21/8.5
EP0411F	1/2	115	12	20	Flag / No Switch	20'	1 1/2"	Manual	15'	15"	1/2"	20/8.1
EP0411AC	1/2	115	12	20	Piggyback / Wide-Angle	20'	1 1/2"	Manual	15'	15"	1/2"	21/8.5
EP0412	1/2	230	6	10	Flag / No Switch	10'	1 1/2"	Manual	15'	15"	1/2"	20/8.1
EP0412F	1/2	230	6	10	Piggyback / Wide-Angle	20'	1 1/2"	Manual	15'	15"	1/2"	20/8.1
EP0511F	1/2	115	13	20	Flag / No Switch	20'	1 1/2"	Manual	15'	15"	1/2"	22/10
EP0511AC	1/2	115	13	20	Piggyback / Wide-Angle	20'	1 1/2"	Manual	15'	15"	1/2"	23/10.4
EP0512F	1/2	230	6.5	10	Flag / No Switch	20'	1 1/2"	Manual	15'	15"	1/2"	22/10



**SEPTIC SYSTEM ELEVATIONS**

A = 503.00  
 B = 577.07 (INV. INTO TANK)  
 C = 573.12  
 D = 573.19  
 E = 574.44  
 F = 576.44  
 G = 577.44  
 H = 3.86' (7" MIN.)  
 I = 579.75 (INV. OUT OF TANK)

FFE = 509.00  
 INV. OUT OF HOUSE = 580.00 (BASED ON CO. RECORDS)  
 INV. INTO DISTRIBUTION BOX = 579.13

**SEPTIC SYSTEM DESIGN**  
 4 BEDROOM HOUSE  
 TRENCH LENGTH = 90 FEET (PER HEALTH DEPT)

TRENCH INVERT = 3 FEET  
 TRENCH T1 INVERT = 570.60  
 TRENCH T2 INVERT = 576.30  
 TRENCH DEPTH = 7 FEET

REPLACEMENT TRENCH INVERT = 3 FEET  
 REPLACEMENT TRENCH WIDTH = 2 FEET  
 REPLACEMENT TRENCH RT3 INVERT = 574.0  
 REPLACEMENT TRENCH RT4 INVERT = 572.0  
 REPLACEMENT TRENCH DEPTH = 7 FEET

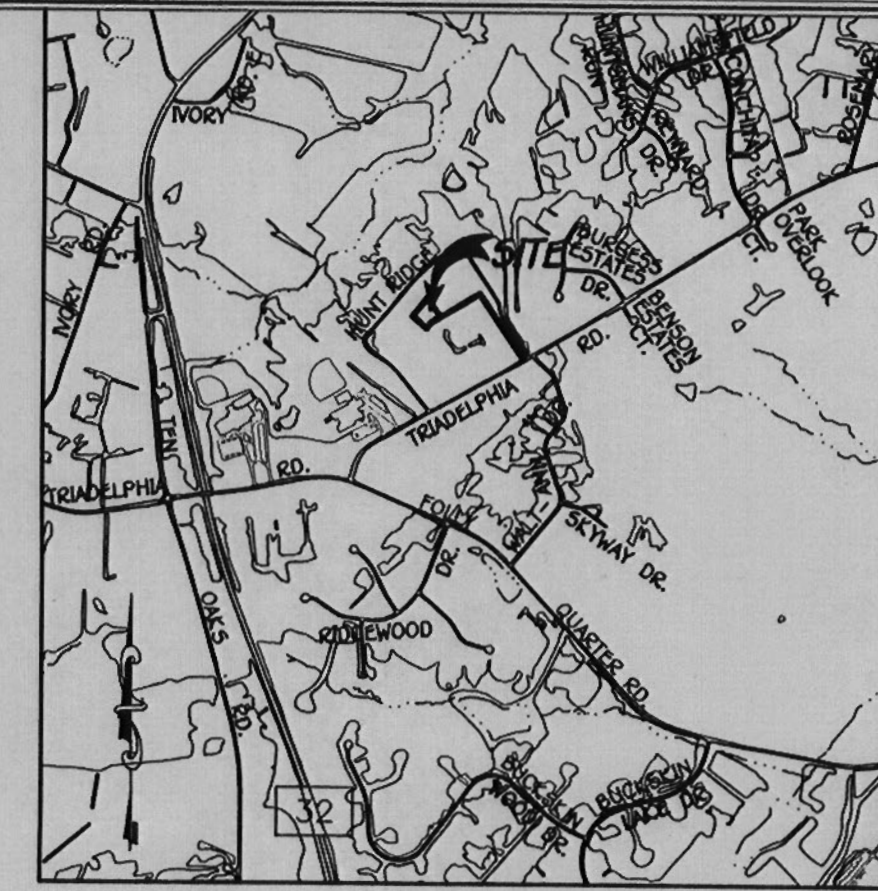
- BAT NOTES**
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
  - THE MAXIMUM COVER OVER THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET. IF COVER EXCEEDS 3 FEET, THEN A TRAFFIC BEARING TANK IS REQUIRED.
  - THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
  - THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  - THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
  - WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
  - AN AGREEMENT AND EASEMENT HAS BEEN COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, LIBER 14780, FOLIO 067.
  - THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
  - SURFACE RUNOFF SHALL BE DIRECTED AROUND THE BAT TANK.
  - AT HIGH WATER ALARM PROBE, PUMP WILL HAVE CONTINUOUS OPERATION UNTIL LEVEL GOES BENEATH PROBE.
  - IF WATER LEVEL RISES ABOVE THE ALARM PROBE, AN AUDIBLE AND VISUAL ALARM WILL SOUND. SEE MANUFACTURER SPECS FOR ADDITIONAL INFORMATION.
  - WIRING TO BE WIRED TO A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.

**SOILS LEGEND**

SOIL	NAME	CLASS
GmB	Glenville silt loam, 3 to 8 percent slopes	C
MAB	Manor loam, 3 to 8 percent slopes	B
MAC	Manor loam, 8 to 15 percent slopes	B

- NOTES:**
- Hydric soils and/or contains hydric inclusions
  - May contain hydric inclusions
  - Generally only within 100-year floodplain areas

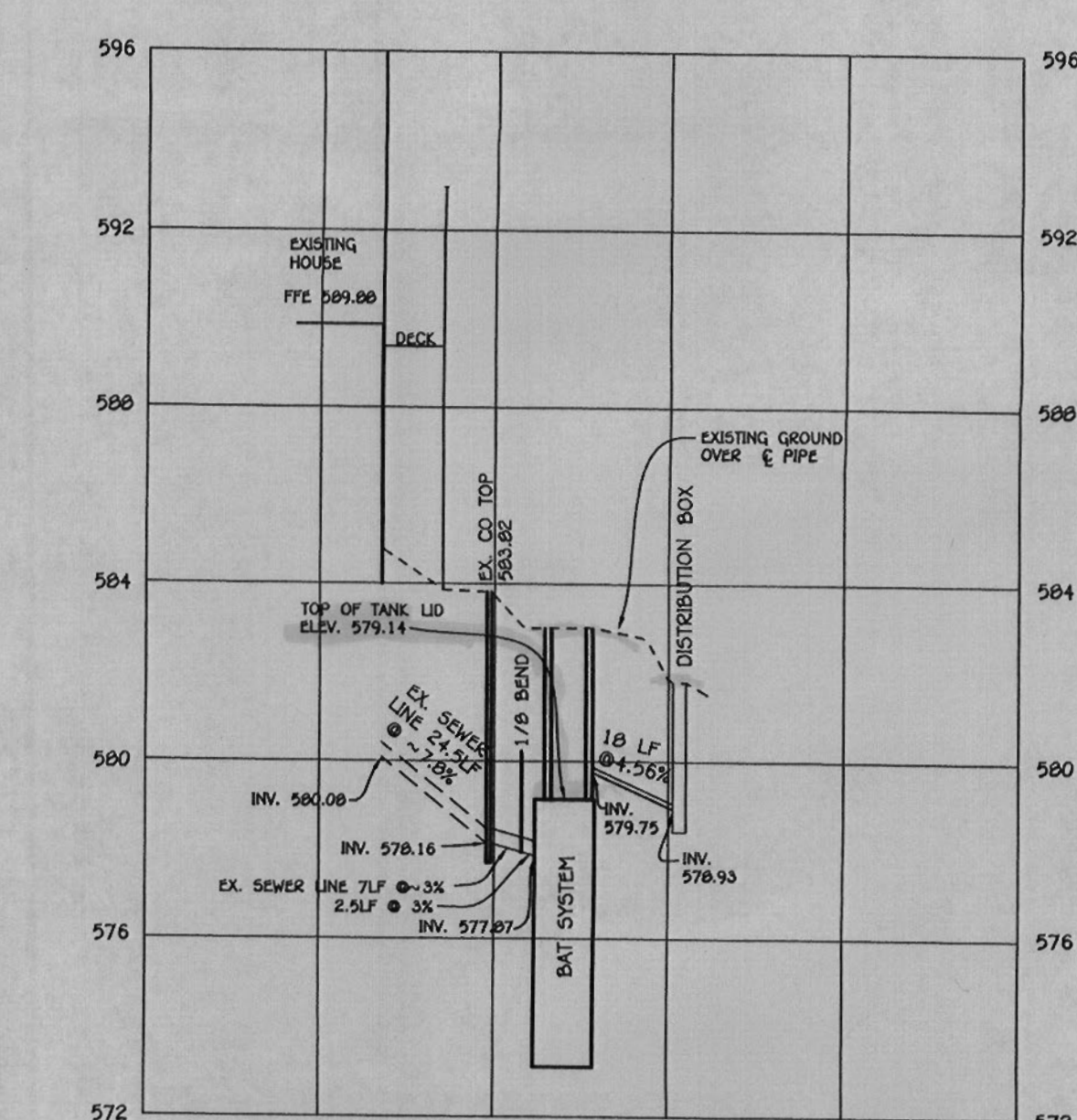
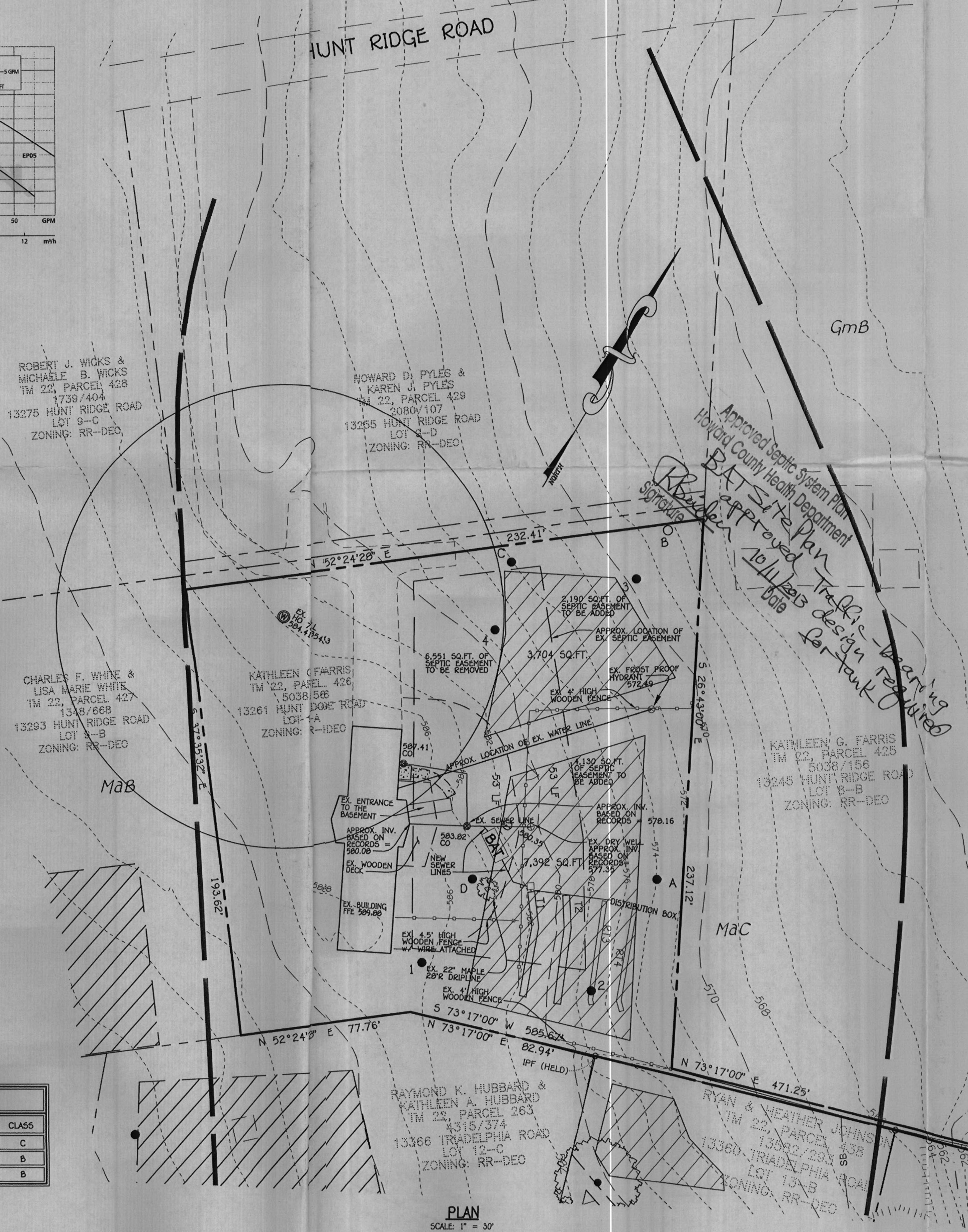
- LEGEND**
- EXISTING 2' CONTOURS
  - - - EXISTING 10' CONTOURS
  - SOIL LINES AND TYPES
  - ⊙ DENOTES EXISTING



VICINITY MAP  
 SCALE: 1" = 1200'

**GENERAL NOTES**

- Subject Property Zoned RR-DEO Per 2/27/04 Comprehensive Zoning Plan And Comp Life Zoning Regulations Effective 7/28/06.
- Coordinates Based On Assumed Datum.
- This Plan is Based On A Deed Plot and Field Run Topographic Survey Performed On Or About July, 2013, By Fisher, Collins & Carter, Inc., Supplemented With Howard County GIS Information.
- B.S.L. Denotes Building Restriction Line.
- ⊙ Denotes Iron Pin Set With Cap "F.C.C. #".
- ⊙ Denotes Iron Pipe Or Iron Bar Found.
- ⊙ Denotes Angular Change In Bearing Of Boundary Or Rights-Of-Way.
- ⊙ Denotes Concrete Monument Set With Cap "F.C.C. #".
- ⊙ Denotes Concrete Monument Or Stone Found.
- All Lot Area Is More Or Less (±).
- The Existing Principal Structure Is Known As 13261 Hunt Ridge Road.
- This Property Is Not Located Within The Metropolitan District And Will Be Served By Private Well And Private Septic Systems.
- All Construction Shall Be In Accordance With The Latest Standards And Specifications Of Howard County.
- The Contractor Shall Notify The Department Of Public Works/Bureau Of Engineering/Construction Inspection Division At (410) 313-1800 At Least Five (5) Working Days Prior To The Start Of Work.
- The Contractor Shall Notify "Miss Utility" At 1-800-257-7777 At Least 48 Hours Prior To Any Excavation Work Being Done.
- Existing Utilities Shown Are Based On Available Construction Drawings. Contractor To Verify Locations Of Existing Utilities Prior To Excavation.
- There Are No Floodplain, 15-24.9% Slopes, 25% Or Greater Slopes, Wetlands, Or Wetland Buffers Within Lot 9-A Where Construction Is Proposed.
- There Are No Disturbances To Environmental Features, As None Are Located On This Property.
- Site Area: 1.00 Acres.
- Dead Reference: Liber 5036, Folio 156.
- Adjustments To Septic Easement Area Are Not Permitted Without Additional Testing.
- Existing Wells And/Or Sewerage Easements Within 100 Feet Of The Property Have Been Shown From All Reasonable Efforts.
- Existing Well (H-73-3543) Has Been Located By Fisher, Collins & Carter, Inc. In July 2013.
- Any Changes To A Private Sewerage Easement Shall Require A Revised Perc Certification Plan.
- This Area Designates A Private Sewerage Area Of At Least 10,000 Square Feet (Or If Prior To March 1972, At Least Enough Area To Accommodate An Initial And Two Replacement Systems) As Required By The Maryland State Department Of The Environment For Individual Sewage Disposal. Improvements Of Any Nature In This Area Are Restricted Until Public Sewerage Is Available. These Areas 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 Area. Recordation Of A Modified Sewerage Area Shall Not Be Necessary.



NOTE: CONTRACTOR TO VERIFY INVERTS OF EXISTING SEWER LINES FOR THE IN.

SCALE: HOR. : 1" = 40'  
 VER. : 1" = 4'

**DESIGN DATA & GENERAL NOTES**

- Concrete strength 10,000 p.s.i. @ 28 days. Density = 150 p.c.f.
- Reinforcing steel per ASTM C 108-02.
- Adhesives & plasticizers per ASTM C 139-02 & C 684-02.
- Reinforcing per ASTM A618, Min. 150° steel.

Mayer Brothers, Inc. 600 GPD BNR SYSTEM H-600 BNR with 760 GALLON PUMP CHAMBER  
 Dwg. No. Hoot Form #1 No Scale March 18, 2009

**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36386, EXPIRATION DATE: 01/12/2014.  
 Signature of Professional Engineer DATE

**OWNERS**  
 KATHLEEN FARRIS  
 13261 HUNT RIDGE ROAD  
 ELLICOTT CITY, MARYLAND 21042  
 443-227-3290

**SITE PLAN FOR BAT INSTALLATION**  
**13261 HUNT RIDGE ROAD**  
 Zoned: RR-DEO  
 Tax ID No: 03-302172  
 Tax Map No. 22; Grid No. 9; Parcel No. 426  
 Third Election District - Howard County, Maryland  
 Date: October, 2013 County: As Shown



GOULDS PUMPS Wastewater



GOULDS PUMPS Wastewater

APPLICATIONS

- Effluent systems
Homes
Farms
Heavy duty sump
Water transfer
Dewatering

SPECIFICATIONS

- Solids handling capability: 1/2" maximum
Capacities: up to 60 GPM
Total heads: up to 31 feet
Discharge size: 1 1/2" NPT

Motor:

- EP04 Single phase: 0.4 HP 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
EP05 Single phase: 0.5 HP 115 V or 230V, 60 Hz, 1550 RPM, built in overload with automatic reset.

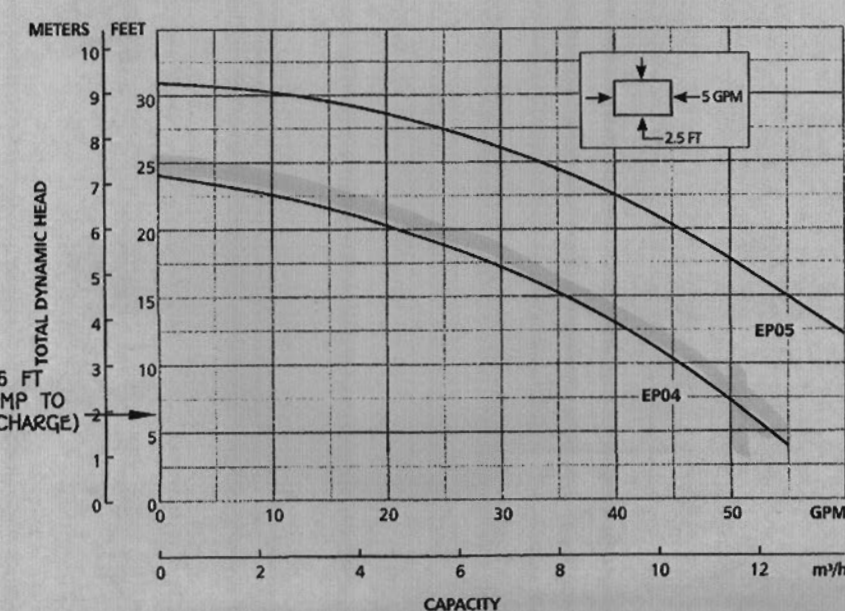
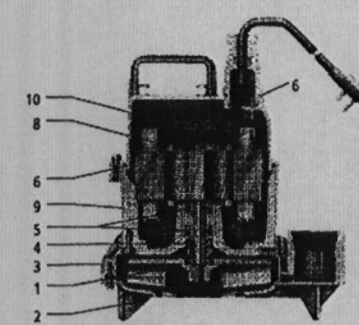
Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.

PERFORMANCE RATINGS

Table with 3 columns: Total Head (ft. of water), Gallons Per Minute, and Motor Model (EP04, EP05).

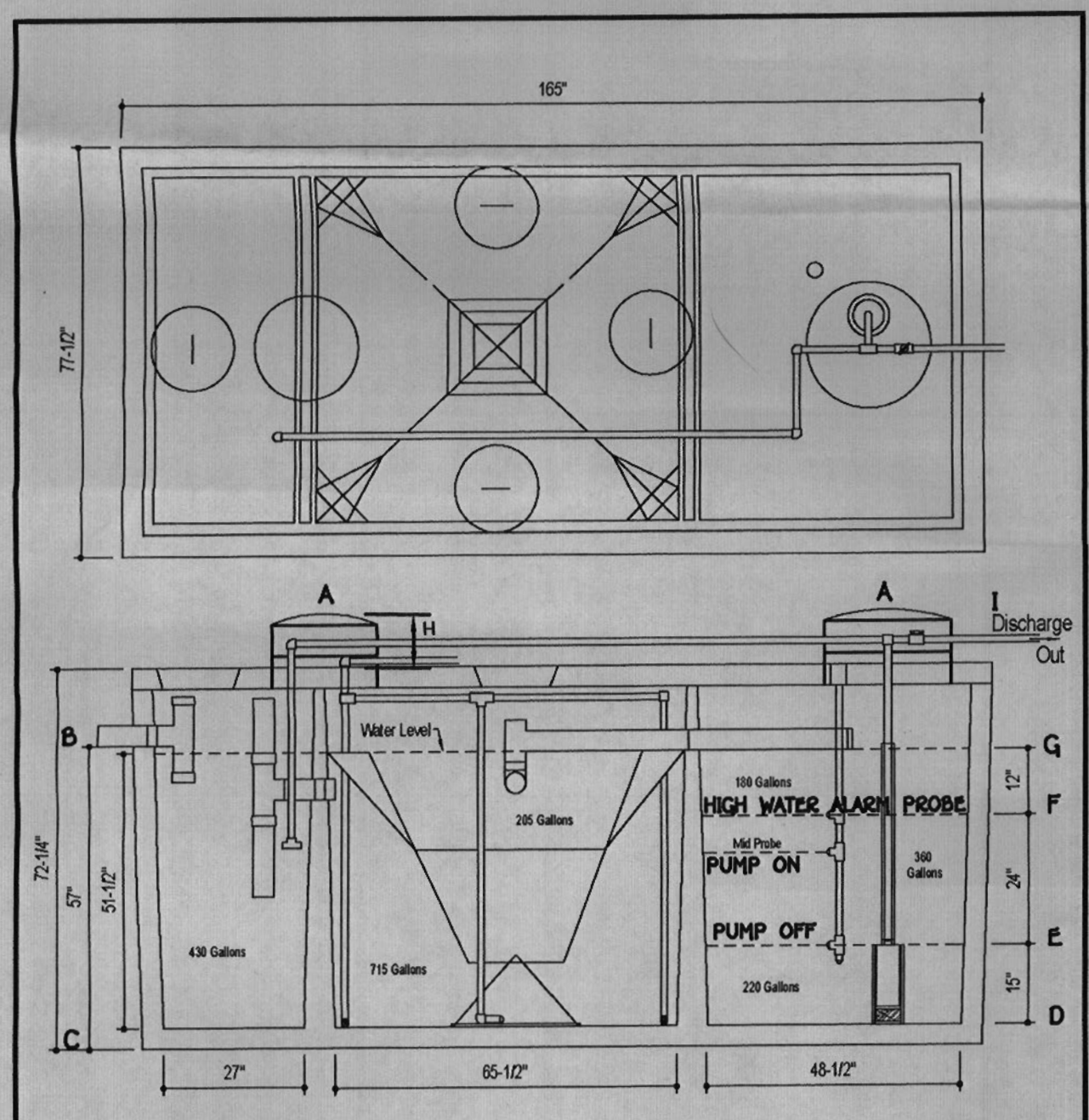
COMPONENTS

Table with 2 columns: Item No. and Description (Impeller, Base, Pump Casing, etc.).



MODEL INFORMATION

Table with columns: Order No., HP, Volts, Amps, Minimum Circuit Breaker, Phase, Float Switch Style, Cord Length, Discharge Connection, Minimum On Level, Minimum Off Level, Minimum Basin Diameter, Maximum Solid Size, Shipping Weight, and Backlog.



DESIGN DATA & GENERAL NOTES
Concrete strength F'w 3000 p.s.i. @ 28 days. Density = 150 pcf.
Cement - Portland Type III per ASTM C 150-82.

Mayer Brothers, Inc. logo and contact information for the 600 GPD BNR SYSTEM H-500 BNR.

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36366, EXPIRATION DATE: 01/12/2014.

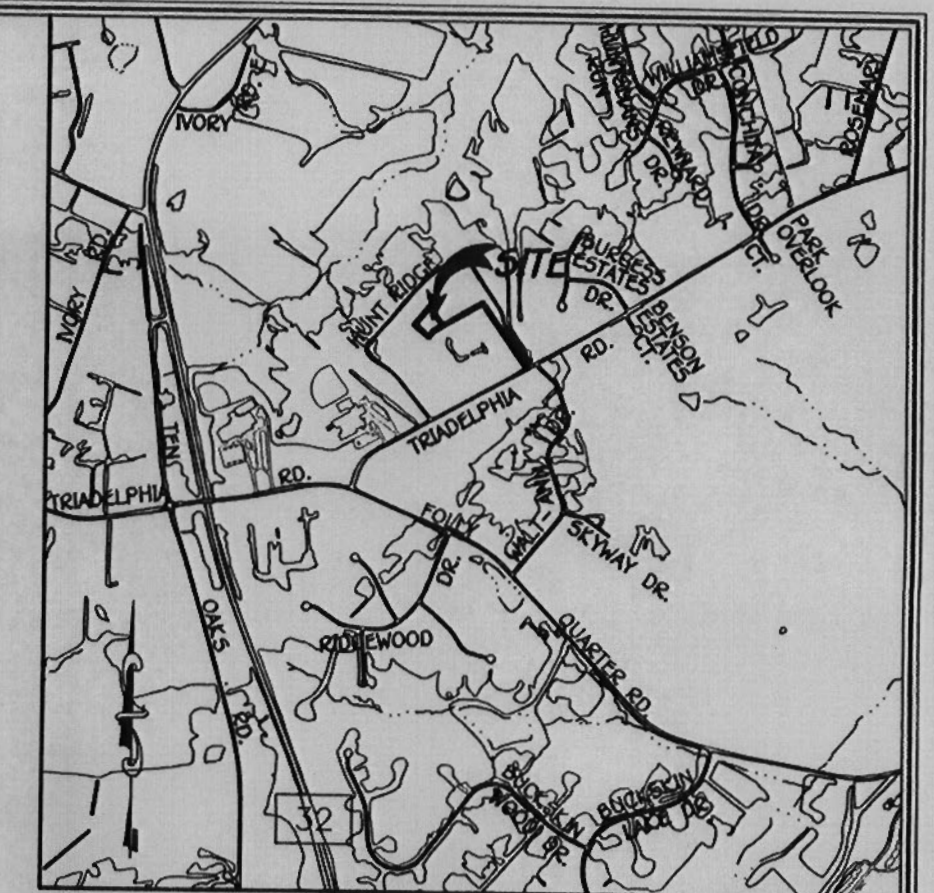
SOILS LEGEND table with columns: SOIL, NAME, CLASS (C, B).

- Hydric soils and/or contains hydric inclusions
May contain hydric inclusions
Generally only within 100-year floodplain areas

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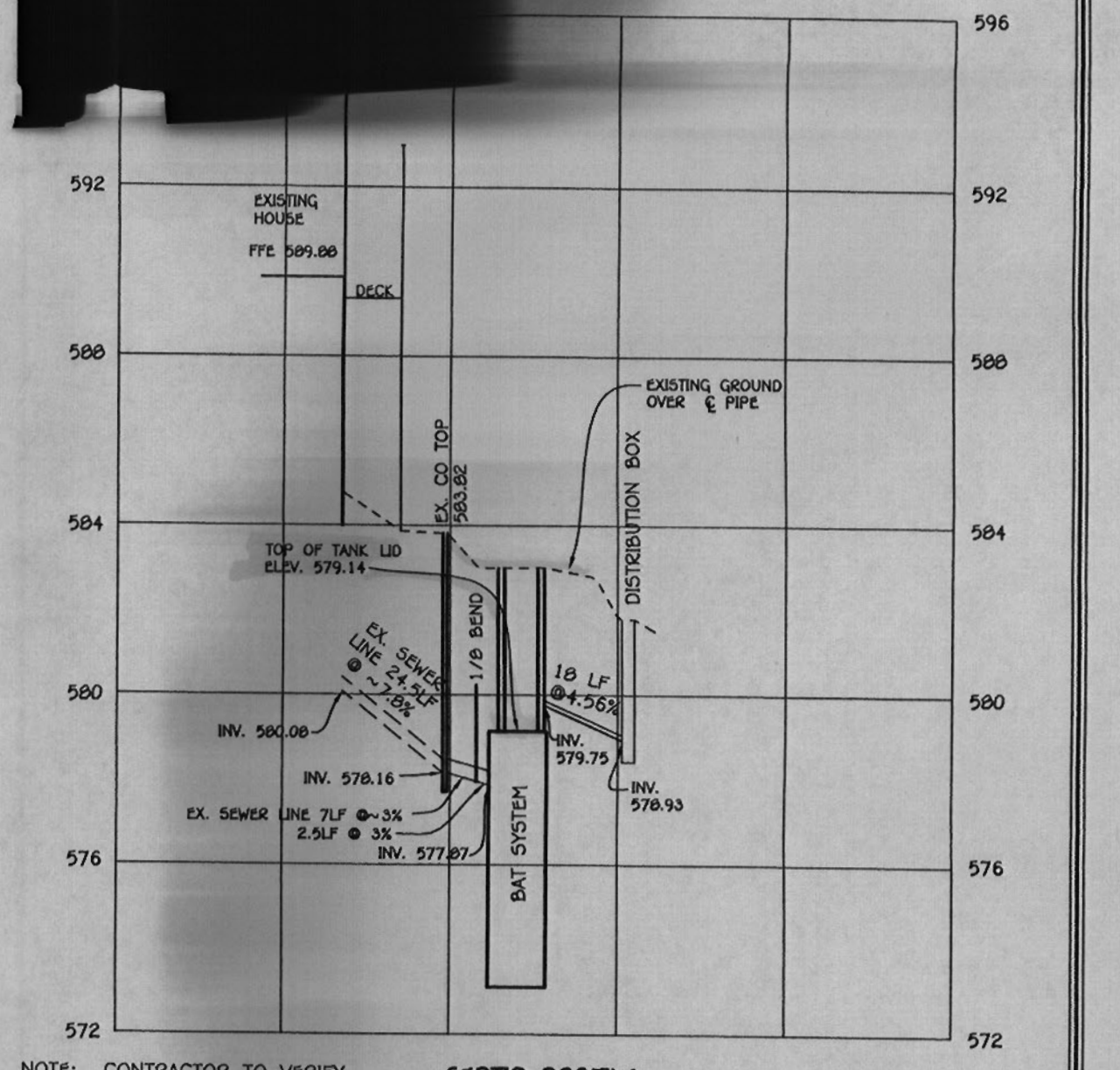
FISHER, COLLINS & CARTER, INC.
ENGINEERING, CONSULTANTS & LAND SURVEYORS

LEGEND
--- EXISTING 2' CONTOURS
--- EXISTING 10' CONTOURS
--- SOIL LINE AND TYPES
--- DENOTES EXISTING



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