

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH DISTRICT 5th

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

05-393752

DATE SYSTEM APPROVED 12/22/88

INSPECTOR S. Abel

P 43160

A 27908

DATE 12/22/88

UBBO VANDERWALK

IS PERMITTED TO INSTALL X ALTER

ADDRESS

PHONE 596-9013

SUBDIVISION Chris Mar Estates ROAD 13455 Highland Rd LOT 6, Section 2

PROPERTY OWNER Ubbo Vanderwalk

ADDRESS

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES 1506 NO X

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 180 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 4 feet below original grade. Bottom maximum depth 10 feet below original grade. Effective area begins at 4 feet below original grade. 6 feet of stone below distribution pipe.

LOCATION - Start the trench 15 feet from the rear lot line and 155 feet from the left side line, as seen when facing the lot from Highland Road. Continue to dig the trench on level ground the necessary distance.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank.

Depths adjusted to facilitate installation. ok(cw)

PLANS APPROVED BY Frank Skinner/C. Williams

DATE 1/06/85-5/22/87

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: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS

PERMIT VOID AFTER TWO 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 OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED

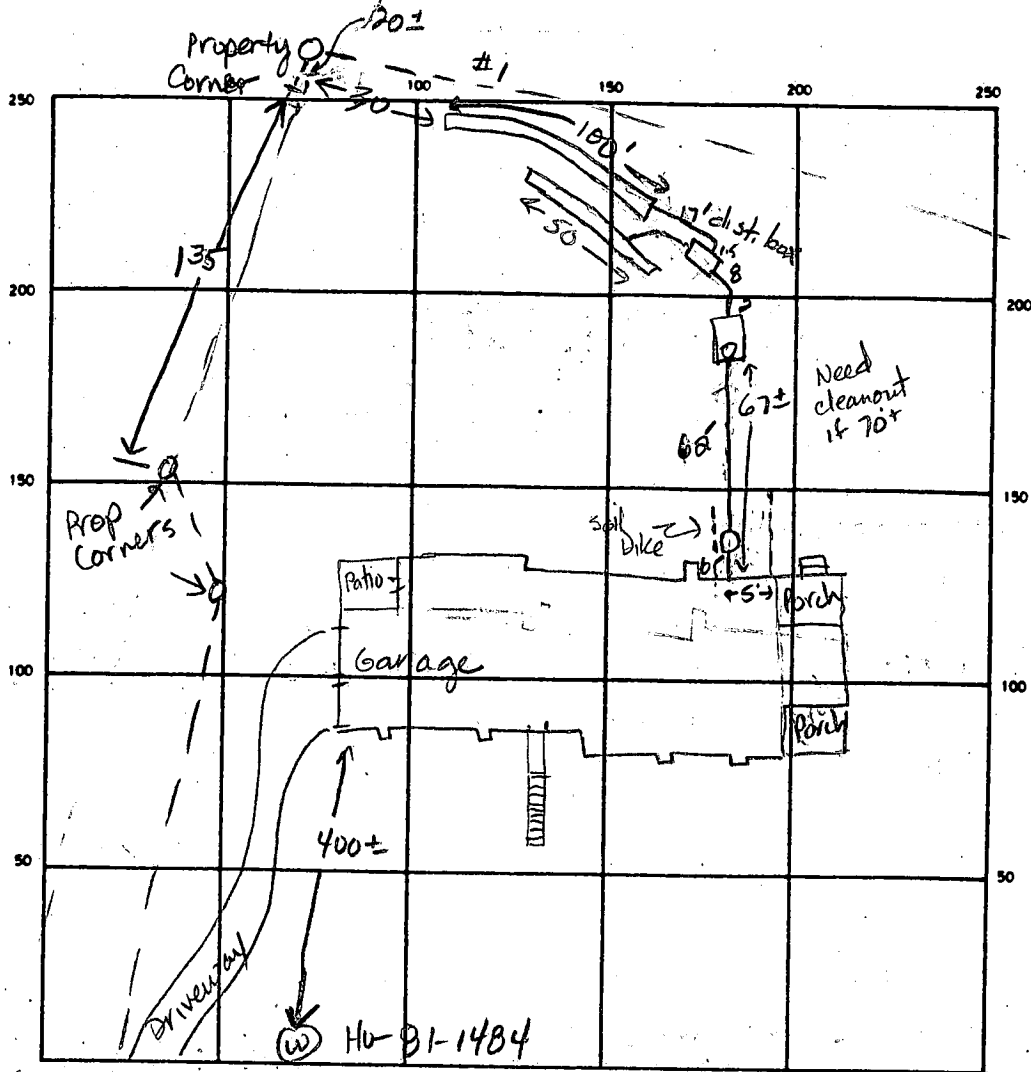
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

***CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.**

A 27908

1
54
24
216
108
130



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

HIGHLAND ROAD

SEPTIC TANK LEVEL OK 1500gal CLEANOUTS ✓

DISTRIBUTION BOX LEVEL ✓

DRAIN FIELD TILE FIELD DEPTH 10.5 10 FT. TRENCH WIDTH 2 FT. INLET DEPTH 4.5 4 FT.

EFFECTIVE GRAVEL DEPTH 6 FT. TOTAL LENGTH 100 50 TLF 150

NUMBER OF TRENCHES 20 ONE SIDEWALL BOTTOM AREA 900 SQ. FT.

DRYWELL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.

ABSORBENT AREA 900 SQ. FT.

REMARKS 12/14/88 Septic Tanks, only, at this date; ok to
continue - permit card signed. (Proceeding according
to house plan of (5-26-82). C.B.S. 12-15-88 OK to add
stone, pipe & paper to trench #1. OK to cover leaving ends open
for inspection. JEN/12-16-88 Continue adding stone to trench #1 JEN
12/16/88 OK TO FINISH SECOND TRENCH. MUST BEG HOUSE CONNECTION FOR FINAL APPROVAL CW

DATE SYSTEM APPROVED S.A. 12/22/88 INSPECTOR S. Abel

A hand-drawn map on a grid showing proposed and old lots. The map includes the following elements:

- Proposed Lot 6 (nearest intersection):** A central area labeled with this text.
- Old perc:** A label with an arrow pointing to a circled '3' in the top-left corner.
- Distances:**
 - 125' (horizontal distance from the top-left corner to a point on the top edge).
 - 125' (diagonal distance from the top-left corner to a point on the right edge).
 - 125' (diagonal distance from the center to a point on the right edge).
 - 25' (horizontal distance between two circled '4's at the bottom).
 - 10' (vertical distance from a point on the top edge to a point on the right edge).
 - 14' (vertical distance from a point on the top edge to a point on the right edge).
- Other labels:** 'old perc' (near the top-left corner), 'old' (near the bottom-left corner), and 'old perc' (near the bottom-left corner).
- Grid:** A grid of squares, with the map content primarily in the top half.

A-27908

INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE

Highland Rd.

[illegible]

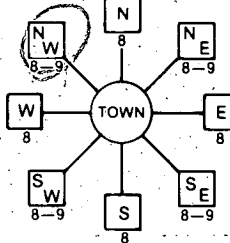
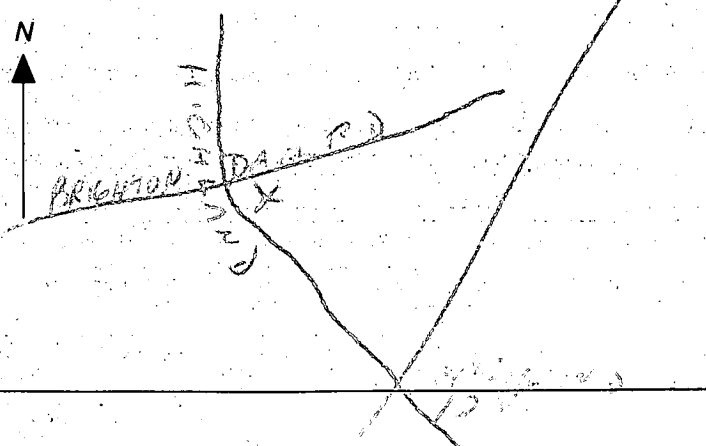
REMARKS

~~TYPE OF SOIL~~

TESTED BY

ALSO PRESENT

Vandervalk

B 1 2836	SEQUENCE NO. (OEP USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	OEP PERMIT NUMBER A0-81-1484
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		fill in this form completely	
OWNER INFORMATION Date Received <u>5/1/86</u> 1:30 PM 15 Last Name <u>VAN DER WALK</u> 34 36 Street or RFD <u>13150 ILEAN MAR DR</u> 55 57 Town <u>HIGHLAND</u> 70 State 72 <u>MD</u> 76 Zip <u>20777</u>		LOCATION OF WELL 8 COUNTY <u>HOWARD</u> 21 23 SUBDIVISION <u>CARRIS MAX ESTATES</u> 42 SECTION <u>2</u> 44 46 LOT <u>6</u> 48 50 52 NEAREST TOWN <u>HIGHLAND</u> 71 MILES FROM TOWN (enter 0 if in town) <u>2</u> 73 76 77 78 <u>MI</u>	
DRILLER INFORMATION Driller's Name <u>George F. Easterday</u> 77 License No. 80 <u>40</u> Firm Name <u>L. F. Easterday, Inc.</u> <u>9265 Brown Ch. Rd., Mt. Airy, Md. 21771</u> Address Signature <u>George F. Easterday</u> Date <u>5/2/86</u>		DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 	
WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) <u>3</u> 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) <u>500</u> 14 20		NEAR WHAT ROAD HIGHLAND RD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  DISTANCE FROM ROAD <u>100</u> 34 37 ENTER FT or MI <u>FT</u> 38 39	
USE FOR WATER (CIRCLE APPROPRIATE BOX) ☒ HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) ☐ FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) ☐ INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) ☐ PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) ☐ TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL COUNTY NAME <u>HOWARD</u> COUNTY NO. <u>A-7908</u> OEP SIGNATURE _____ STATE HEALTH INSERT S _____ DATE ISSUED <u>05-21-86</u> CO SIGNATURE <u>J. Stamen</u> EXP. DATE <u>11/1/86</u> NORTH GRID <u>497000</u> 50 55 EAST GRID <u>080000</u> 57 63	
APPROXIMATE DEPTH OF WELL <u>200</u> 24 28 FEET.		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. <u>Well</u> 2. _____ 3. _____ WRITE THE BOX NUMBER FROM THE MAP HERE E <u>8065</u> N <u>4988</u>	
APPROXIMATE DIAMETER OF WELL <u>6</u> INCH METHOD OF DRILLING (circle one) BORED (or Augered) <u>JETTED</u> Jetted & DRIVEN 30 AIR-ROTary 37 AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT other _____		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) ☒ THIS WELL WILL NOT REPLACE AN EXISTING WELL ☐ THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 ☐ THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY ☐ THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52		Not to be filled in by driller (OEP USE ONLY) APPROP. PERMIT NUMBER _____ 54 63 FORCE <u>1</u> 67 68 WRITE INITIALS IN BOX PERMIT No. <u>A0-81-1484</u> 70 71 72 73 74 75 76 77 78 79	
SPECIAL CONDITIONS			

C1 00539

SEQUENCE NO.
(OEP USE ONLY)STATE OF MARYLAND
WELL COMPLETION REPORTFILL IN THIS FORM COMPLETELY
PLEASE PRINT OR TYPETHIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.COUNTY
NUMBER A 27908(THIS NUMBER IS TO BE PUNCHED
IN COLS. 3-6 ON ALL CARDS)

DATE Received

1	2	3	4	5	6

DATE WELL COMPLETED

080186

Depth of Well

22 2410 26
(TO NEAREST FOOT)PERMIT NO.
FROM "PERMIT TO DRILL WELL"

OK H0-81-1984

OWNER VAN DER VALK HG LIBBO
STREET OR RFD HIGHLAND RD first name HIGHLAND
SUBDIVISION CHRIS MAR EST SECTION 2 TOWN HIGHLAND
LOT 6

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS
PENETRATED, THEIR COLOR, DEPTH,
THICKNESS AND IF WATER BEARINGDESCRIPTION (Use
additional sheets if needed)

FEET

FROM TO

Check
if water
bearing

TOP soil	0	2	
clay	2	4	
Shale	4	10	
Sand stone	10	30	
Mica	30	85	
Granite	85	88	✓
Mica +	88	130	
Flint mixed	130	150	✓
Granite	150	240	
Mica + Flint			
Mixed			

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)yes ☒ Y no ☐ N
44 44

TYPE OF GROUTING MATERIAL

CEMENT ☒ CM BENTONITE CLAY ☐ BCNO. OF BAGS 12 NO. OF POUNDS 1200GALLONS OF WATER 65

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 37 ft.
(enter 0 if from surface)casing
types
insert
appropriate
code
below

CASING RECORD

ST CO
STEEL CONCRETE
PL OT
PLASTIC OTHERMAIN Casing Nominal diameter Total depth
TYPE top (main) casing of main casing
(nearest inch) (nearest foot)ST 6 40
60 61 63 64 66 70OTHER CASING (if used)
diameter depth (feet)
inch from toscreen-type
or open hole
insert
appropriate
code
below

SCREEN RECORD

ST BR HO
STEEL BRASS OPEN
BRONZE HOLE
PL OT
PLASTIC OTHERC2
DEPTH (nearest ft.)
H0 35 240
8 9 11 15 17 21
23 24 26 30 32 36
38 39 41 45 47 51SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH)
56 60GRAVEL PACK
IF WELL DRILLED WAS
FLOWING WELL INSERT
F IN BOX 68OEP USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) WQ
70 72 74 75 76
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 6PUMPING RATE (gal. per min. to nearest gal.) 3METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 11WHEN PUMPING 95

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 WILL INSTALL PUMP YES NO
(CIRCLE) (YES or NO)
IF DRILLER INSTALLS PUMP, THIS SECTION
MUST BE COMPLETED FOR ALL WELLS
EXCEPT HOME USE
TYPE OF PUMP INSTALLED
PLACE (A,C,J,P,R,S,T,O)
IN BOX - SEE ABOVE:CAPACITY:
GALLONS PER MINUTE (to nearest gallon) 31
PUMP HORSE POWER 37
PUMP COLUMN LENGTH (nearest ft.) 43CASING HEIGHT (circle appropriate box
and enter casing height)
+ above } LAND SURFACE (nearest foot)
- below }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)CIRCLE APPROPRIATE LETTER
A WELL WAS ABANDONED AND SEALED
WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN
ACCORDANCE WITH COMAR 10.17.13 "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 IDENT. NO. 40
Shore 7 Contractors
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)
Charles R. Miller
SITE SUPERVISOR (sign. of driller or journeyman
responsible for sitework if different from permittee)

Date

of

8-1-86 12:30

Review

OKD @ 8/19/86

FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81 - 1484

Location of property (road)

Highland Rd

Subdivision Chris Man Est

Lot 6

Block

Plat

Sec. 2

Well Driller Geo. Easterday

Owner

Dan Den Valk

Depth of well 240 3 GPM

Distance of measuring point (M.P.) above ground 2 FT

Static water level (S.W.L.) below M.P. 11 FT

I. High rate pumping -- reservoir drawdown

Time pump started 1:15

Pumping rate

10 G.P.M.

Total time 15 min to reach pumping water level 97 ft. below M.P.

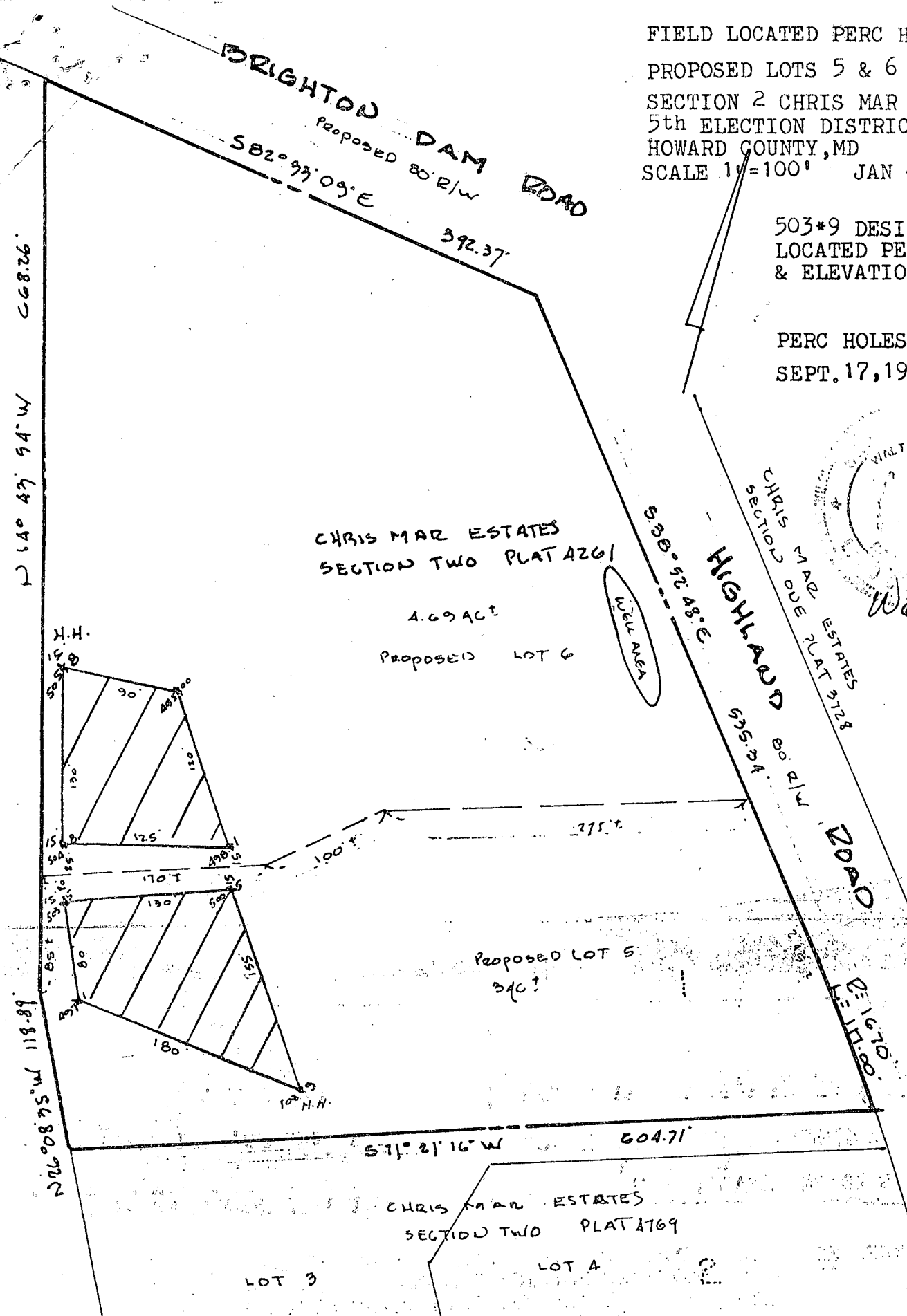
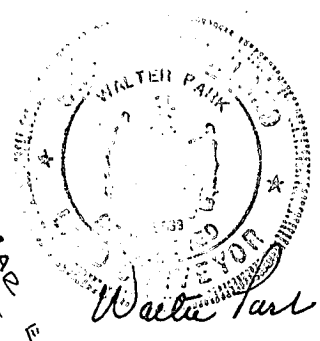
II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
1:30	97 FT	20 Sec		3 G.P.M.
1:45	95 FT	20 Sec	Pump set	3 G.P.M.
2:00	95 FT	20 Sec	AT 200 FT	3 G.P.M.
2:15	95 FT	20 Sec		3 G.P.M.
2:30	95 FT	20 Sec		3 G.P.M.
2:45	95 FT	20 Sec		3 G.P.M.
3:00	95 FT	20 Sec		3 G.P.M.
3:15	95 FT	20 Sec		3 G.P.M.
3:30	95 FT	20 Sec		3 G.P.M.
3:45	95 FT	20 Sec		3 G.P.M.
4:00	95 FT	20 Sec		3 G.P.M.
4:15	95 FT	20 Sec		3 G.P.M.
4:30	95 FT	20 Sec		3 G.P.M.
4:45	95 FT	20 Sec		3 G.P.M.
5:00	95 FT	20 Sec		3 G.P.M.
5:15	95 FT	20 Sec		3 G.P.M.
5:30	95 FT	20 Sec		3 G.P.M.
5:45	95 FT	20 Sec		3
6:00	95 FT	20 Sec		3
6:15	95 FT	20 Sec		3
6:30	95 FT	20 Sec		3
6:45	95 FT	20 Sec		3
7:00	95 FT	20 Sec		3
7:15	95 FT	20 Sec		3
7:30	95 FT	20 Sec		3

FIELD LOCATED PERC HOLES & ELEV.
 PROPOSED LOTS 5 & 6
 SECTION 2 CHRIS MAR ESTATES
 5th ELECTION DISTRICT
 HOWARD COUNTY, MD
 SCALE 1"=100' JAN 4 1983

503*9 DESIGNATES FIELD
 LOCATED PERC HOLES
 & ELEVATIONS.

PERC HOLES WERE LOCATED
 SEPT. 17, 1982



THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET, MORE OR LESS AS REQUIRED BY THE MARYLAND STATE DEPT. OF HEALTH & MENTAL HYGIENE FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY KIND OR NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL & VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.

THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM LOT AREA & OWNERSHIP WIDTH AS REQUIRED BY THE MD. STATE DEPT. OF HEALTH & MENTAL HYGIENE.
 HUDKINS ASSOCIATES, INC.
 SUITE 231, JOSEPH SQUARE
 5485 HARPERS FARM ROAD
 COLUMBIA, MD 21044

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS.
 HOWARD CO. HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *[Signature]* DATE *[Blank]*

DEVELOPMENT - CHRIS MAR ESTATES

SECTION 2

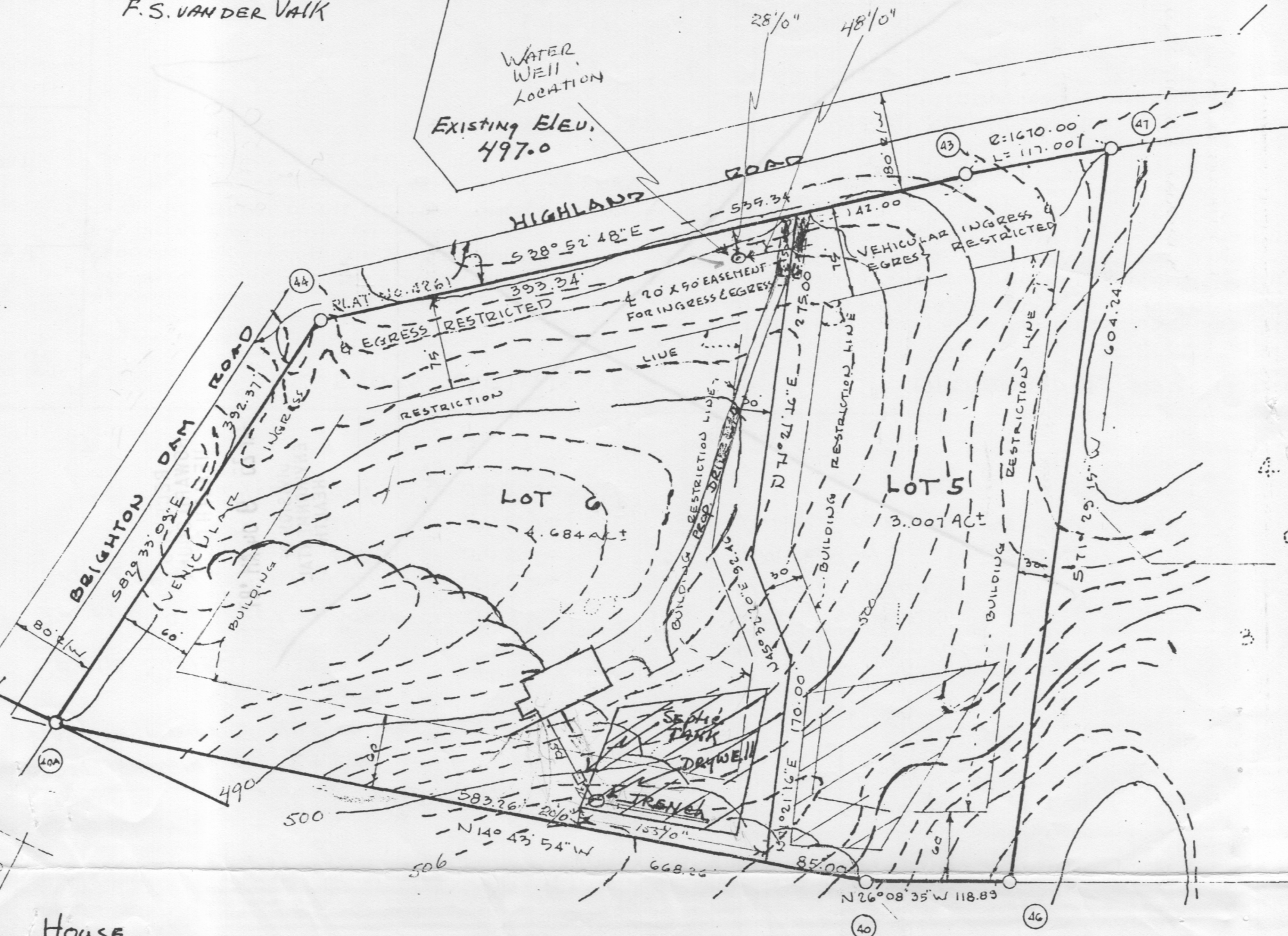
Lot #6

Property Address - 13455 Highland Road
Highland, MD. 20777

OWNERS: H.G. UBBO VAN DER VALK
F.S. VANDER VALK

WELL DATA

WATER
WELL
LOCATION
Existing ELEV.
497.0



House

1st Floor ELEV. 507.50✓
BASEMENT ELEV. 498.00✓

THOMAS NICHOLS
L. 934 F. 258

5/26/87

Ulevation

OK 8/11/87

BLDG. PERMIT SIGNED
AND RETURNED 5-26-87

BP# 12181

12181

DRYWELL 10'x10'x6'

EXISTING ELEV. 505.0✓

FINISH ELEV. 505.0✓

INVERT IN 502.0✓ 501.00

INVERT OUT 501.0✓

SEPTIC SYSTEM

INVERT ELEV. out of house 503.60✓ NO BSMT

SEPTIC TANK - EXISTING ELEV 502.00✓

FINISH ELEV. 505.00✓

INVERT IN 502.75✓

INVERT OUT 502.50✓

SURVEYORS CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWED HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF ALL OF THE LANDS CONVEYED BY PAUL G. KOTTIS UNTO HENDRIKUS GERARDUS UBBO VAN DER VALK AND FRANCES SUZANNE VAN DER VALK, HIS WIFE, BY DEED DATED JULY 12, 1979 AND RECORDED IN THE LAND RECORDS OF HOWARD COUNTY IN LIBER 953, AT FOLIO 194, ETC., AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO THE ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY, AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

DEDICATION FOR INDIVIDUALS

WE, HENDRIKUS GERARDUS UBBO VAN DER VALK AND FRANCES SUZANNE VAN DER VALK, OF THE PROPERTY SHOWN AND DESCRIBED HEREON, SUBDIVISION; AND IN CONSIDERATION OF THE APPLICABLE PLANNING AND ZONING ESTABLISH THE MINIMUM ALL EASEMENTS OF RIGHTS-OF-WAY AFFECTING THE PLAN OF SUBDIVISION. WITNESS OUR HANDS THIS

Hendrikus Gerardus Ubbo van der Valk
HENDRIKUS GERARDUS UBBO VAN DER VALK

Frances Suzanne van der Valk
FRANCES SUZANNE VAN DER VALK

Walter Park

11-28-1983

WALTER PARK REG. PROF. L.S. NO. 5539

DATE