10-17-96
AM: 10-23-96 After Council (1-2)
Co. Ad - 10/24/96

OS-407222

PERMIT

P 57324

SEWAGE DISPOSAL SYSTEM

A 38589

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

INDEXED

DISTRICT 5th

DATE 10-15-96

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
~~XXX-XXX-XXXX~~ 313-2640

DATE SYSTEM APPROVED 10/24/96

INSPECTOR GB

WTC III Plumbing & Heating IS PERMITTED TO INSTALL X ALTER ____

ADDRESS 1820 Gillis Falls Road, Woodbine, MD 21797 PHONE 410-489-4457

SUBDIVISION Twelve Hills LOT 19 ROAD 13031 Twelve Hills Road

PROPERTY OWNER Greenfield Home, Inc.

ADDRESS ____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 180 180'

TRENCHES - Trench to be 2 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth 7.5 feet below original grade. Effective area begins at 3.5 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Place the first trench ~~225~~ feet from the front lot line and ~~60~~ 50' feet off the left lot line as seen when facing the lot from Twelve Hills Road. Run trenches on contour toward the front lot line.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 7/1/96 DKS

PLANS APROVED BY S. Abel/Donna K. Soe REVISED DATE 5/21/96

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, 90° ELBOWS NOT ACCEPTABLE.

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 TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

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 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

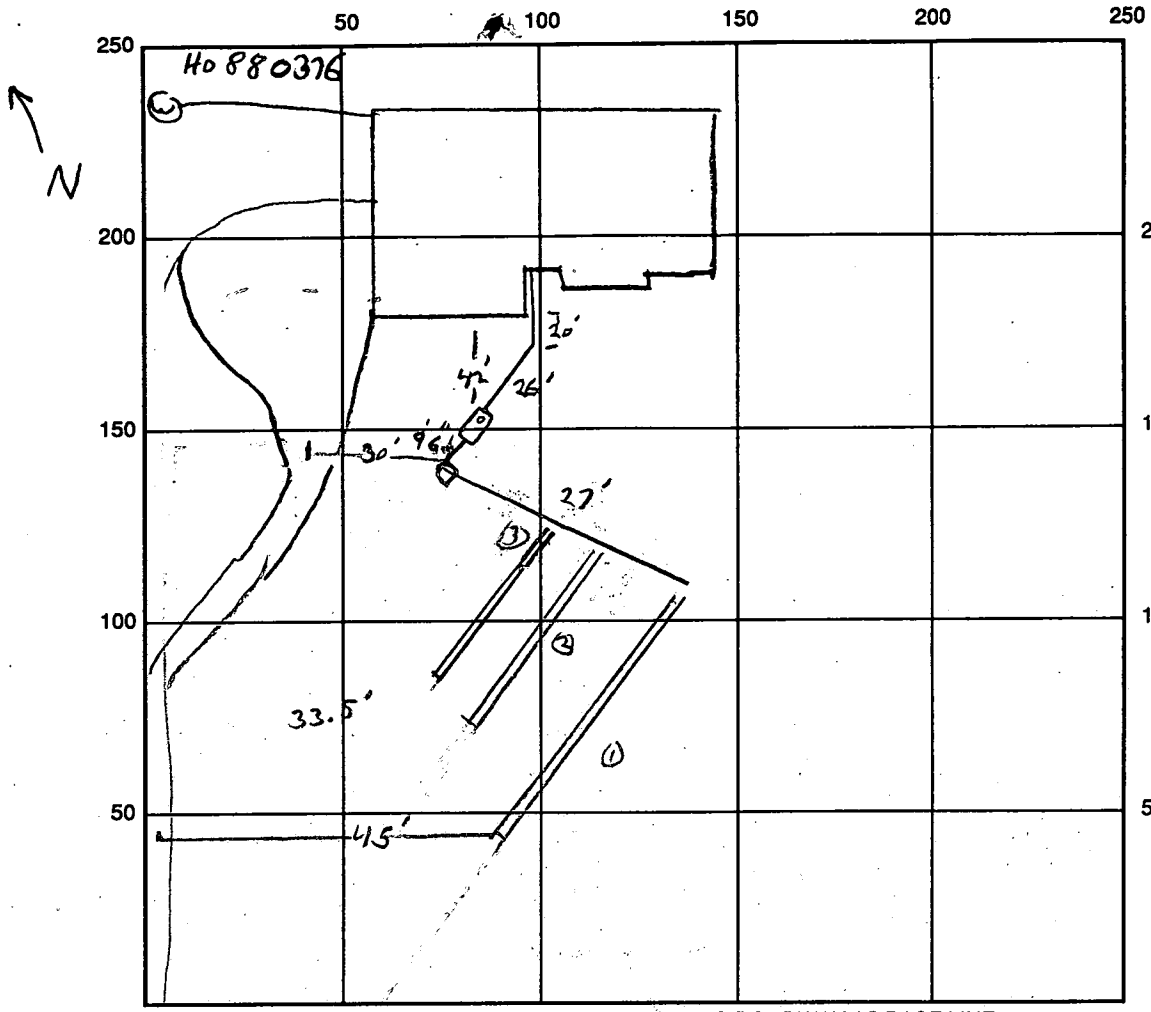
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**
***CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.**

HD-260(6-90)

A 38589



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

TWELVE MILE ROAD

79
65
144
137
41

SEPTIC TANK LEVEL O/K TO COVER CLEANOUTS ON TANK OK

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TITLE DEPTH 1.5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3.5 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 1/79 2/80 3/43 FT. = 182

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 546 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 10-17-96 O/K TO STONE TRENCHES 1 AND 2, LEAVE ENDS OPEN. 10/23/96 O/K TO COVER 1ST 2 TRENCHES. NEEDS HOUSE CONNECTION. 10/24 HOUSE CONNECTION OK, THIRD TRENCH OK

DATE SYSTEM APPROVED 10/24/96 INSPECTOR

APPLICATION

A 38589

PERCOLATION TESTING

P

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 461-9933

DISTRICT 5

DATE 12/17/86

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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

PROPERTY OWNER ~~Altogether Limited Partnership~~ Greenfield Homes. Baltimore

ADDRESS 10176 Baltimore National Pike Suite 210 PHONE 465-5855

PROSPECTIVE BUYER

ADDRESS PHONE

PROPERTY LOCATION Twelve Hills Lot 19 Final Lot 19 Sec 2

SUBDIVISION ~~Altogether~~ Twelve Hills Sec 2 LOT NO. ~~27~~ NEW 6 (April 87)

ROAD AND DESCRIPTION Linden Church Rd + Rt 32 ~~13037~~ 13031 Twelve Hills Rd

TAX MAP 28 PARCEL # 66

BLDG. PERMIT SIGNED AND RETURNED 6-5-96
Serial # 65170

SIZE OF LOT 3 acres TYPE BLDG. SFD 4 BRMS
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. Mal S Reid
(SIGNATURE OF APPLICANT)

APPROVED BY Sidney Alley FOR Department DATE 6-19-89

REJECTED BY FOR DATE

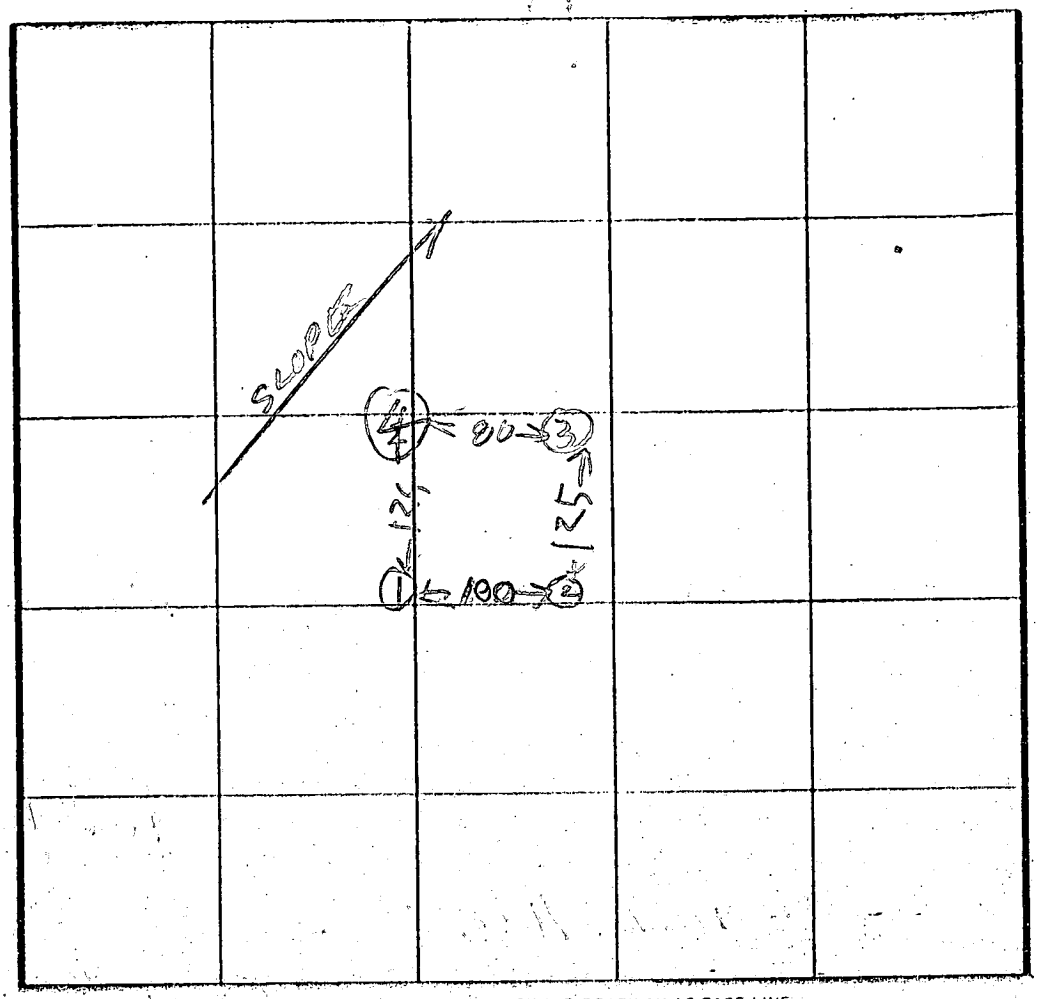
HOLD PENDING FURTHER TESTS DATE

REASONS FOR REJECTION OR HOLDING 2/4/87 hold for plat. SBB

BLDG. PERMIT SIGNED AND RETURNED 6-19-89
BP 27016 84

THIS IS NOT A PERMIT

1 of 2



HOLES ELEVATION
SLIGHT SLOPES,
① 2 HIGHT
② ④ MEDIUM
③ 2 LOW

X PERC 5 MIN
180 ϕ 18"
INLET 4' 3.5
BOTTOM 5' 4.5

SOIL PROFILE

① ②
0'
BROWN CLAY & TOPSOIL
4
PINK
TAN SAND LOAM
12½

③
BROWN CLAY & TOPSOIL
3
BROWN SAND LOAM
11

④
BROWN CLAY TOPSOIL
3½
BROWN SAND LOAM
12

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
LINDEN CHAPEL RD

DATE	TEST NO	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
11/30/87	1 S	4.5	343	348	348	352	4
	1 V	8	345	350	350	355	5
11/30/87	1 V	12½	OK				
11	2 S	4.5	353	358 OK	358	405	7
	2 V	12					
11	3 S	5	400	402	402	406	4
	3 V	11	OK				
11	4 S	5	408	409	409	411	3
	4 V	12	OK				

av wait 5 min max depth 4 ft

REMARKS Holes not dug per Surveyor's Field Plan (Dec 86)

TYPE OF SOIL

TESTED BY R. HUGGES

ALSO PRESENT MARK DAVID ZK ETTERMAN

EH-12-1079

C1 6672 SEQUENCE NO. (DENV USE ONLY)
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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

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

COUNTY NUMBER AP 38589

DATE Received

DATE WELL COMPLETED 03/05/95

Depth of Well 205 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-88-0376

OWNER ALTOGETHER LIMITED

STREET OR RFD TWELVE HILLS RD (last name / first name) TOWN DAYTON

SUBDIVISION TWELVE HILLS SECTION 2 LOT 19

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	FEET TO	Check if water bearing
Top Soil	0	2	
Sandy	2	68	✓
Sand Stone	68	95	
MICKA	95	100	
Sand Stone	100	105	✓
MICKA	105	205	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y (44) no N (44)

TYPE OF GROUTING MATERIAL

CEMENT CM (45 46) BENTONITE CLAY BC (45 46)

NO. OF BAGS 17 NO. OF POUNDS 1000

GALLONS OF WATER 102

DEPTH OF GROUT SEAL (to nearest foot)

from 0 (48 TOP 52) ft. to 39 (54 BOTTOM 58) 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	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
PL (60 61)	6 (63 64)	80 (66 70)

OTHER CASING (if used) — EACH CASING

diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole insert appropriate code below

ST STEEL BR BRASS BRONZE HO OPEN HOLE PL PLASTIC OT OTHER

C2

EACH SCREEN		DEPTH (nearest ft.)	
1	HO (8 9)	178 (11 15)	95 (17 21)
2	(23 24)	(26 30)	(32 36)
3	(38 39)	(41 45)	(47 51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (56 60) (NEAREST INCH)

GRAVEL PACK from ____ to ____

IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 ☐ (68)

C3

PUMPING TEST
HOURS PUMPED (nearest hour) 3 (8 9)

PUMPING RATE (gal. per min. to nearest gal.) 10 (11 15)

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 40 (17 20)

WHEN PUMPING 69 (22 25)

TYPE OF PUMP USED (for test)

A air (27) P piston (27) T turbine (27)

C centrifugal (27) R rotary (27) O other (describe below) (27)

J jet (27) S submersible (27)

PUMP INSTALLED
DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO) YES 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: (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 (49) / − below (49) LAND SURFACE

(50 51) (nearest foot)

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

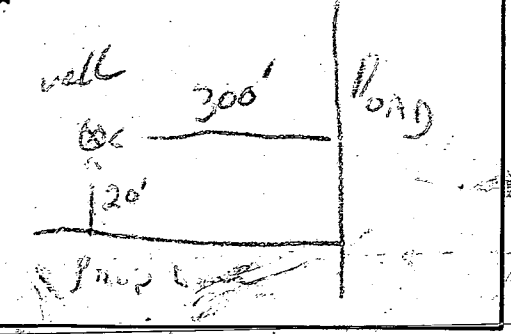
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS IDENT. NO. 223

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

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)



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

T (70) TELESCOPE CASING (E.R.O.S.) (72) LOG INDICATOR WQ (74 75 76) OTHER DATA

COUNTY

Page 1 of _____
Date MARCH 30, 1989

Review OK 8/14/89 CW

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 88-0376
Location of property (road) TWELVE NILLS ROAD
Subdivision TWELVE HILLS Lot 19 Block - Plat - Sec. 2
Well Driller R. MAYNE Owner ALTOGETHER LIMITED

Depth of well 205'
Distance of measuring point (M.P.) above ground 2'
Static water level (S.W.L.) below M.P. 40'

I. High rate pumping -- reservoir drawdown

Time pump started 3:00 Pumping rate 10 G.P.M.
Total time 15 min to reach pumping water level 60 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 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
3:15	60 ft	6 Sec	N/A	10 G.P.M.
3:30	60 "	6 Sec		10 GPM
3:45	60 "	6 Sec		10 GPM
4:00	60 "	6 "		10 "
4:15	60 "	6 "		10 "
4:30	60 "	6 "		10 "
4:45	60 "	6 Sec		10 GPM
5:00	60 "	6 Sec		10 GPM
5:15	60 "	6 Sec		10 GPM
5:30	60 "	6 "		10 "
5:45	60 "	6 "		10 "
6:00	60 "	6 Sec		10 GPM
6:15	60 "	6 Sec		10 GPM

HD-224

80 ft CASING 17 BAGS
50 OPEN

10/15/96 2PM

OK ~~98~~
NEEDS SEALED CAP

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Ellicott City, MD 21043
461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

- -

New Installation X
Replacement ____

Receipt # ____
Date ____

Name of Installer William T Cumberland

Telephone ____

License Number 7979
Certified Well Pump Installer ____ Well Driller ____ Registered Plumber X

Name of Property Owner ____

Telephone ____

Subdivision Twelve Hills Lot # 19 Well Tag # AO-94-0376
Site Address 13031 Twelve Hills Rd

- -

Pump
1. Type
   a. Deep well jet ____
   b. Shallow well jet ____
   c. Submersible ✓
2. Make ____
3. Model # ____
4. Capacity 7 GPM
5. Pump exceeds well capacity Yes ____ No X
6. If Yes, is low pressure cutoff switch installed? Yes ____ No X
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors ____ Cable guards ✓ Other ____

Motor
1. Horsepower ____
2. RPM ____
3. Voltage ____
   a. 110 ____
   b. 220 ____

Pitless Adapter
1. Make ____
2. Model # ____
3. Depth ____

Tank
1. Capacity 40
2. Pressure relief valve? Yes

Piping
1. Type Plastic
2. Size ____
3. NSF and/or BOCA Code approved ____
4. Depth of supply line 4 FT

Well data
1. Depth 205 ft.
2. Yield 10 GPM
3. Static water level 40 ft.
4. Will water supply be disinfected by installer? no

- -

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

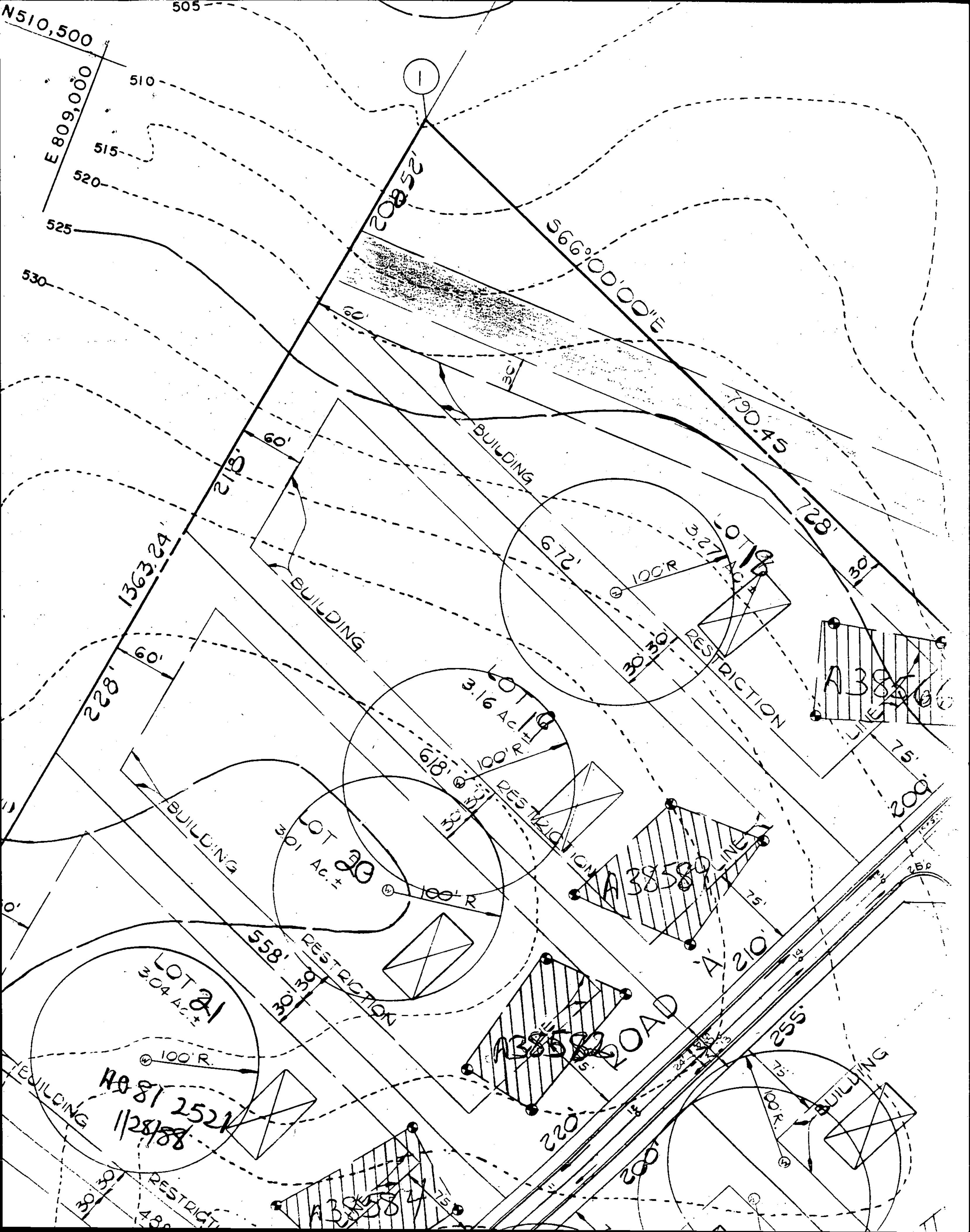
All information given above is true to the best of my knowledge.

Signature of Applicant: William T Cumberland

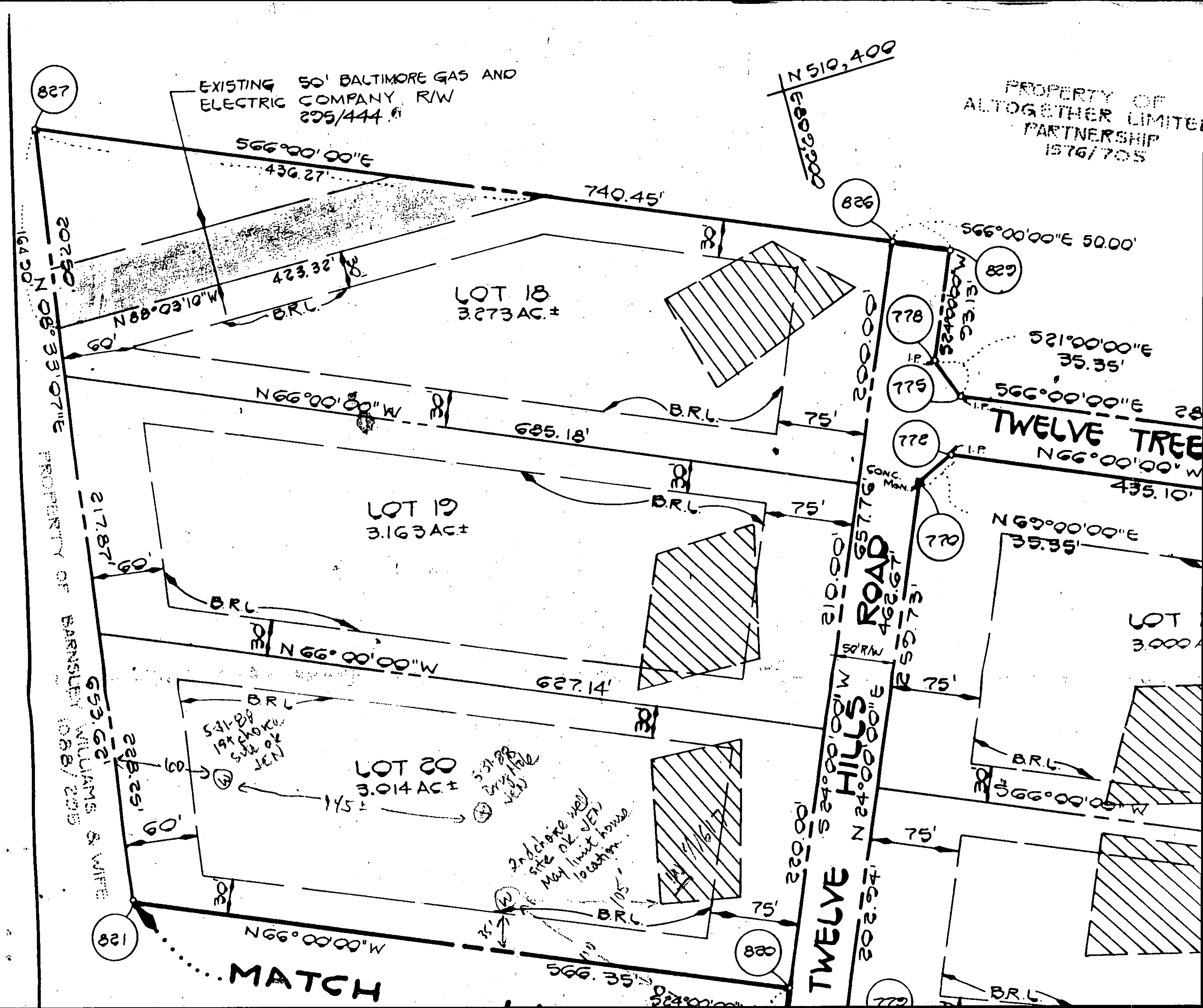
Date: Oct 15 1996

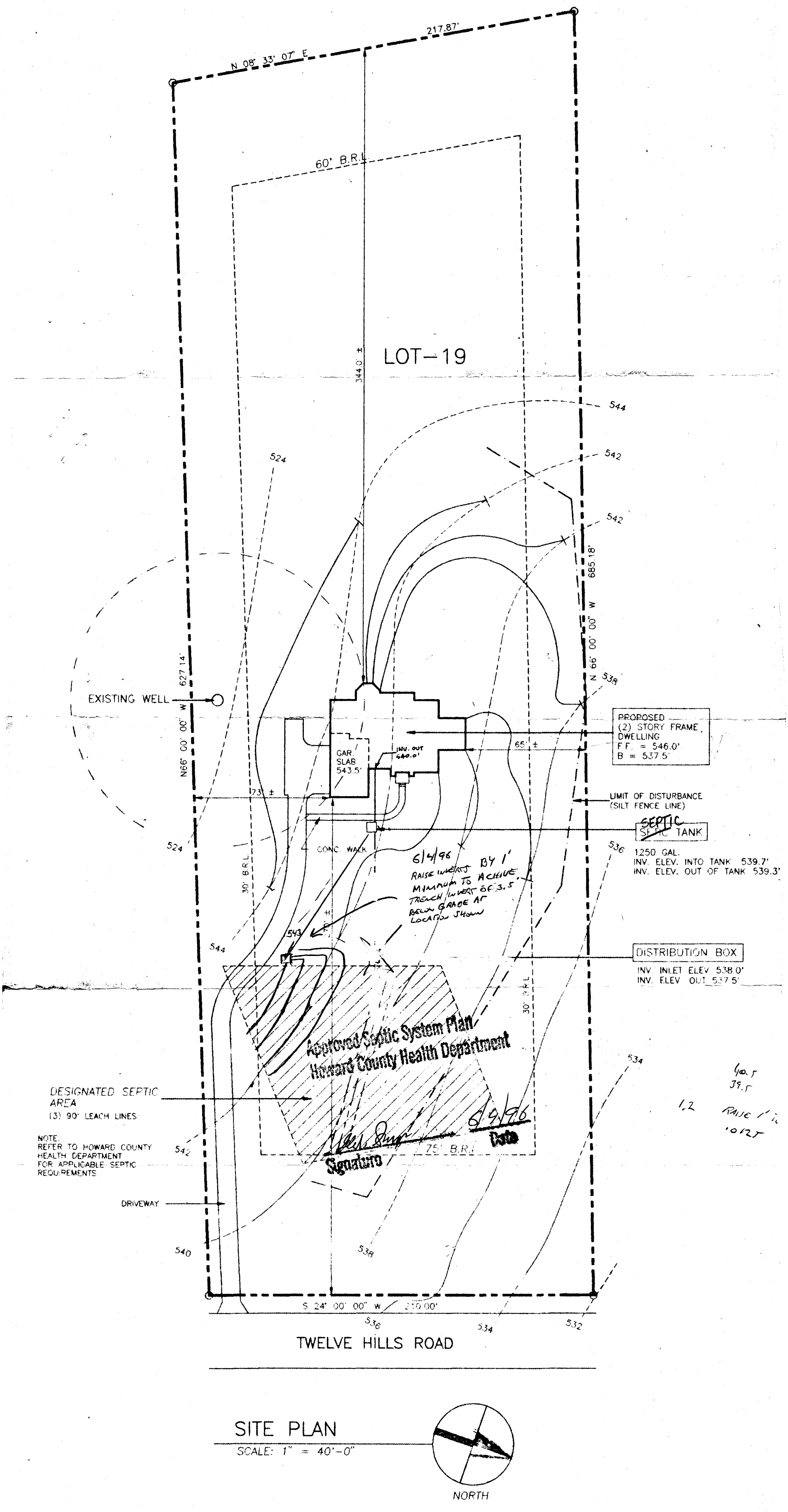
Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

HD-215



N510,500
E809,000
505
510
515
520
525
530
1
208.52'
S66°00'00"E
790.45
728'
60'
30'
218'
1363.24'
228'
BUILDING
RESTRICTION
LINE
LOT 18
3.27 Ac.±
672'
100'R
LOT 19
3.16 Ac.±
618'
LOT 20
3.01 Ac.±
LOT 21
3.04 Ac.±
558'
ROAD 'A'
210'
200'
255'
220'
75'
A38589
A38582
HO 81 2521
1/28/88


EXISTING 50' BALTIMORE GAS AND ELECTRIC COMPANY R/W 295/444
N 510,400
PROPERTY OF ALTOGETHER LIMITED PARTNERSHIP 1576/705
827
826
829
778
775
778
770
821
820
S66°00'00"E
436.27'
740.45'
S66°00'00"E 50.00'
S24°00'00"W 23.13'
S21°00'00"E 35.35'
S66°00'00"E
TWELVE TREES
N66°00'00"W
435.10'
N69°00'00"E 35.35'
CONC. MON.
I.P.
423.32'
N88°03'10"W
B.R.L.
LOT 18
3.273 AC.±
60'
30'
75'
N66°00'00"W
685.18'
LOT 19
3.163 AC.±
N66°00'00"W
627.14'
LOT 20
3.014 AC.±
N66°00'00"W
566.35'
MATCH
TWELVE HILLS ROAD
50' R/W
200.00'
657.76'
210.00'
220.00'
S24°00'00"W
N24°00'00"E
462.67'
259.73'
202.34'
N08°33'07"E
2025.202
1642.02
217.87'
653.62'
228.25'
PROPERTY OF BARNSLEY WILLIAMS & WIFE 1068/295
LOT
3.000 A
S66°00'00"W
5-31-88 1st choice site OK JEN
5-31-88 Dry Hole JEN
145'±
2nd choice well site OK JEN May limit house location.
105'
35'±



SITE PLAN

SCALE: 1" = 40'-0"

NORTH