

12/21/86
12/21/86
12/21/86
12/21/86

12/5/86
3/30
REINSPECT
DISCUSS CONNECTIONS

Approved
2/27/87
C. Williams
P. 3732A
A 34856

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
X992-2330X
461-9933

04-343778
INDEXED

ELLICOTT CITY
DISTRICT 4th
DATE 7/07/86

J. Crane IS PERMITTED TO INSTALL ALTER

ADDRESS _____ PHONE 795-8204

SUBDIVISION _____ ROAD 14006 Old Frederick LOT 1

PROPERTY OWNER Bruce Crane

ADDRESS _____

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

GARBAGE GRINDER? YES _____ NO

SEPTIC TANK CAPACITY 1500 GALLONS NUMBER OF BEDROOMS 3

180
1540

TRENCHES - 180 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 3 feet below original grade. 5 feet of stone below distribution pipe.

LOCATION - Start the first trench 560 feet from the left (448') lot line and 340 feet from the rear (460') lot line as seen when facing the property from Old Frederick Road. Run trench(s) along contour toward front of property.

NOTE - No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. Call for inspection of trench(s) before and after gravel is installed. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank.

11/24/86 PIPES 40" below GRADE w/ed line 36-40" below GRADE. S. Blend

PLANS APPROVED BY C. Williams DATE 6/24/86

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 AND AFTER PLACING GRAVEL IN TRENCH.

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 THREE YEARS.

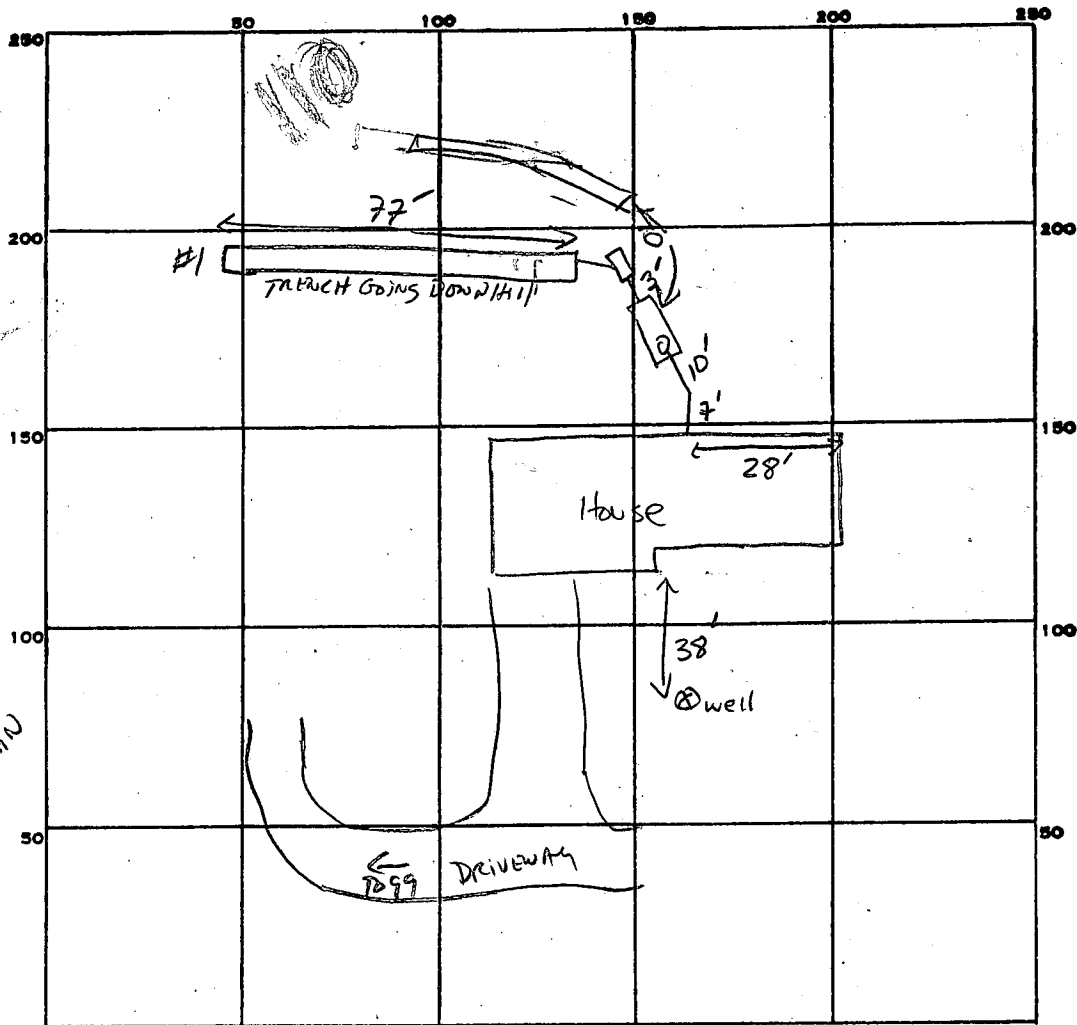
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A 34856



180
540
108 LF
27
31 LF REMAIN

ADD 30'
FT TRENCH
ON CURVE
CALL WHEN
DONE

PERMIT CARD _____

SEPTIC TANK, LEVEL 1000 GAL

CLEANOUTS 15

DISTRIBUTION BOX, LEVEL

TILE FIELD, DEPTH 8' FT. TRENCH WIDTH 2 FT. INLET 3'

GRAVEL DEPTH 5 FT IN. TOTAL LENGTH 77' ^① 41 ^② FT.

NUMBER OF TRENCHES _____ ONE SIDEWALL
TOTAL BOTTOM AREA _____

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA _____ SQ. FT.

REMARKS 11/24/86 NEED PAPER COVERING STONE IN TRENCH #1, NEED 31' MORE TRENCH, TRENCH

#1 GOING DOWN HILL INLET MAINTAINED LEVEL THROUGHOUT S. END.

12/3/86 TRENCH #2 GOING DOWN HILL ALSO 77' LONG UNKNOWN

DEPTH OF STONE HOLD FOR REVIEW GRADES AT TRENCH #2

IS ABOUT 5 FT LOWER AT FAR END OF TRENCH THAN NEAR END/TRENCH

TRENCHES RUNNING DOWN HILL, ADD 30' TRENCH ON LEVEL GROUND & CALL WHEN COMPLETE, CW,

30' ADDED - OK 2/17/87 CW 2/17/87 INSPECTOR Craig Miller

DATE SYSTEM APPROVED _____

4/30/86
5/4/86
1:30
S.A.A.

APPLICATION

PERCOLATION TESTING

5/6
perc test
OK'd pending
approved plan

A 36854

P _____

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

DISTRICT 4

DATE 4-28-86

Jeff Crane

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 Bruce Crane

ADDRESS 1150 Underwood Rd PHONE 442 2247

PROSPECTIVE BUYER Bruce Crane

ADDRESS 1150 Underwood Rd PHONE 442 2247

PROPERTY LOCATION:

SUBDIVISION None LOT NO. 1

ROAD AND DESCRIPTION 14006 old Frederick Rd

TAX MAP 9 PARCEL # 295

SIZE OF LOT _____ TYPE BLDG. Single Fam Dwelling
(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. Bruce Crane
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING for certified plan

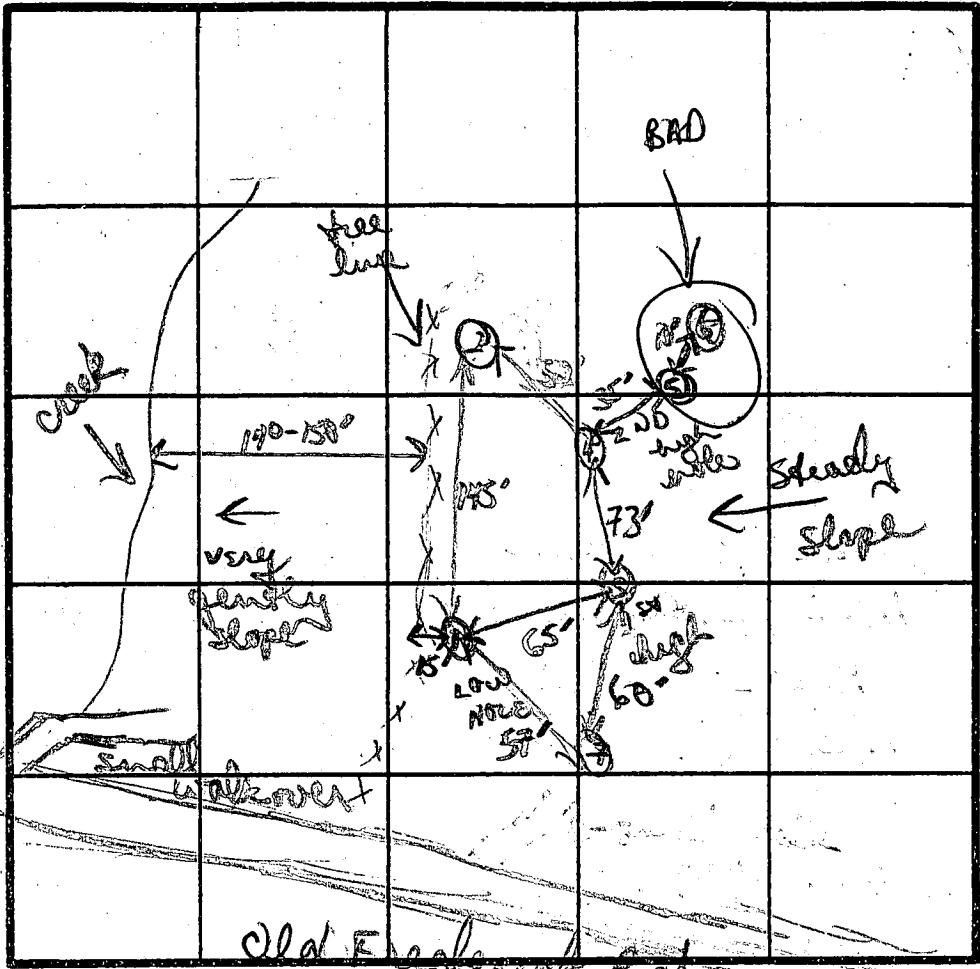
DEED, PERMIT SIGNED
AND RETURNED 6-70-86

B.P.# 70738

THIS IS NOT A PERMIT

SOIL PROFILE

no real clay layer
brown from brown med to coarse grain sandy clay loam fairly uniform



70% hard rock + frags w/ chunky sandy clay loam below < 5% rock red/gray sandy silt

orange layer small clay content fine med grain tan powdery silty/sandy loam uniform

Red/brown med/coarse grain sandy/clay loam red/gray sandy loam

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
5/6/86	①	4 1/2	123	134	134	155	21 min	
		10' D	bottom (see profile)					
	②	3 1/2	141	143	143	148	5 min	
		8' M	147	149	149	152	3 min	
		12' D	bottom (see profile)					
	③	3 1/2	155	157	157	159	2 min	
		9 1/2' D	bottom (see profile)					
	④	4 1/2	228	230	230	233	3 min	
		10 1/2' D	(bottom / hard bottom)					
	5+6	Heavy	surface/subsurface rock + rock fragments					

REMARKS outside of hole 4, other holes good. NO NO problems generally little of any distinct clay; generally sandy silt loam

TESTED BY B. Nijman ALSO PRESENT Digger

APPLICATION

PERCOLATION TESTING

A 36856

P _____

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

DISTRICT 4

DATE 4/28/86

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 Bruce Crane

ADDRESS 1150 Underwood Rd PHONE 442-2247

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION None LOT NO. 1

ROAD AND DESCRIPTION 14006 Old Frederick Road

TAX MAP 9 PARCEL # 295

SIZE OF LOT _____ TYPE BLDG. _____
(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.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

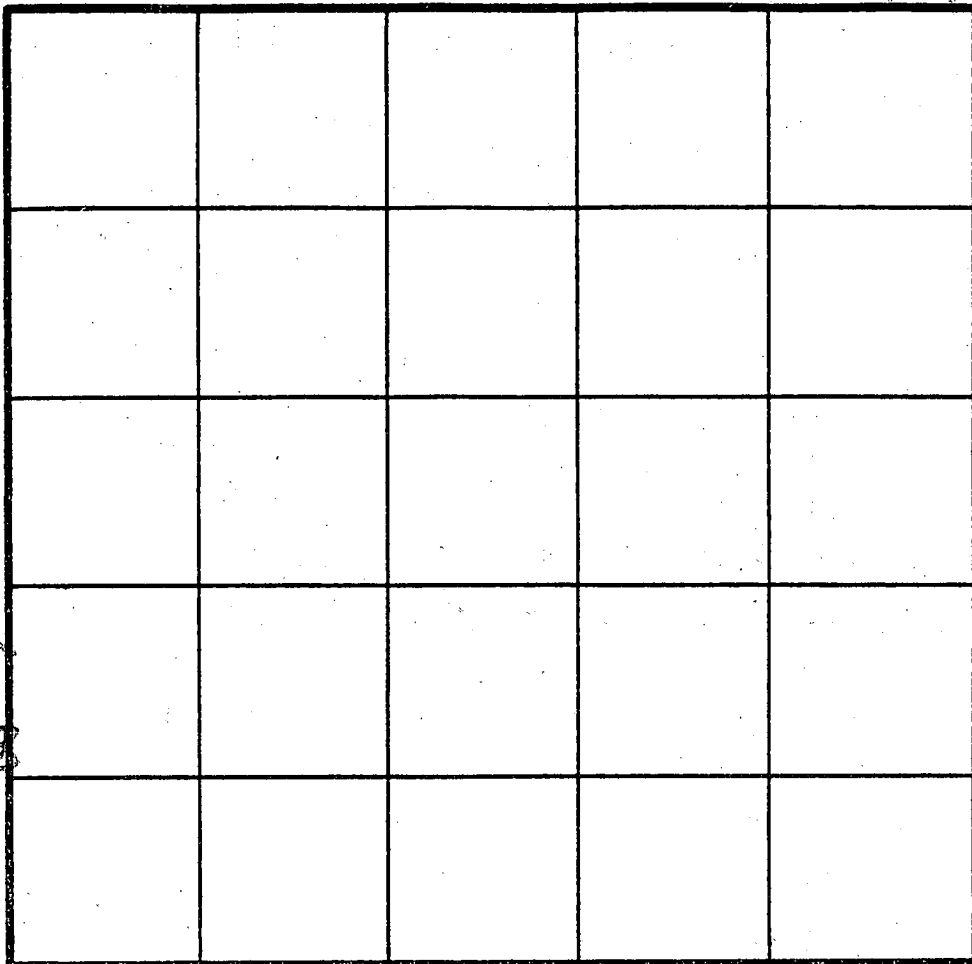
REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT



SOIL PROFILE

0
 Red tan
 brown
 sandy
 clay
 silt
 7
 layer of
 6
 rock
 to tan
 white brown
 sandy
 silt/gravel



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5/6/86	(7)	VISUAL - OK ↓ 1 1/2' D see (profile)					

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

B 1 1691
 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, MARYLAND 21401
APPLICATION FOR PERMIT TO DRILL WELL

WRA PERMIT NUMBER
 HO-73-2805
FILL IN THIS FORM COMPLETELY

DATE RECEIVED (WRA USE ONLY)
 12/15/78
 1:30 P.M.

OWNER Gerber
 COL 15 LAST NAME
FIRST NAME Charles
 COL. 34
STREET OR RFD 1398 Underwood Road
 COL 36
 COL. 55
POST OFFICE Sykesville, Maryland 21784
 COL 57
 COL. 76

B 1 CONTINUED **DRILLER INFORMATION**
 1 2 3 (SEQ. NO.) 6
DATE May 22, 1978
LICENSE NUMBER 256
 77 80
FIRST NAME Dana
DRILLER Kyker, Jr. II
LAST NAME
SIGNATURE *[Signature]*

B 3 **LOCATION OF WELL**
 1 2 3 (SEQ. NO.) 6
COUNTY Howard
 (DO NOT ABBREVIATE COUNTY NAME) 21
SUBDIVISION 29
 42
SECTION 44
 46
LOT 48
 50
NEAREST TOWN Sykesville
 52
MILES FROM TOWN (ENTER 0 IF IN TOWN) 3 1/2
 73 76 77 78

B 2 **WELL INFORMATION**
 1 2 3 (SEQ. NO.) 6
MAXIMUM PUMPING RATE (GALLONS PER MINUTE) 6
 8 12
AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY) 390
 14 20
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 FARMING, AGRICULTURE, IRRIGATION
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT.
 MUNICIPAL WATER SUPPLY
 PRIVATE WATER COMPANY
 TEST
 MUST HAVE STATE HEALTH DEPT. APPROVAL

B 4 **DIRECTION FROM TOWN**
 (CIRCLE APPROPRIATE BOX)
 NORTH EAST NORTHEAST SOUTHEAST
 SOUTH WEST NORTHWEST SOUTHWEST
NEAR WHAT ROAD Old Frederick Road
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH SOUTH EAST WEST
DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX) 300
 34 37 38 39

APPROXIMATE DEPTH OF WELL 170' FEET
 24 28

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
OTHER (DESCRIBE)

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
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
 THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)
 41 52

NOT TO BE FILLED IN BY DRILLER (WRA USE ONLY)
APPROPRIATION PERMIT NUMBER 54
ENGINEER REVIEW DISTRICT NO. 65
FORCE 67 68
WRITE INITIALS IN BOX
CONDITIONS 70 71 72 73 74 75 76 77 78 79

B 4 CONTINUED **HEALTH DEPARTMENT APPROVAL**
 1 2 3 (SEQ. NO.) 6
STATE HEALTH (CIRCLE BOX) 5
COUNTY NAME Howard
COUNTY NO. 128088
DATE 05 26 78
APPROVED BY *[Signature]*
APPROVED BY Ronald H. Monahan, Sanitarian

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS, ROADS AND STREAMS WITH NORTH IN THE DIRECTION OF THE ARROW, AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION OR STREAM CROSSING SHOWN ON THE SKETCH. ALSO SHOW, BY MEANS OF AN "X", THE WELL LOCATION IN THE BOX BELOW AND THE BOX NUMBER FROM THE WELL LOCATION MAP.

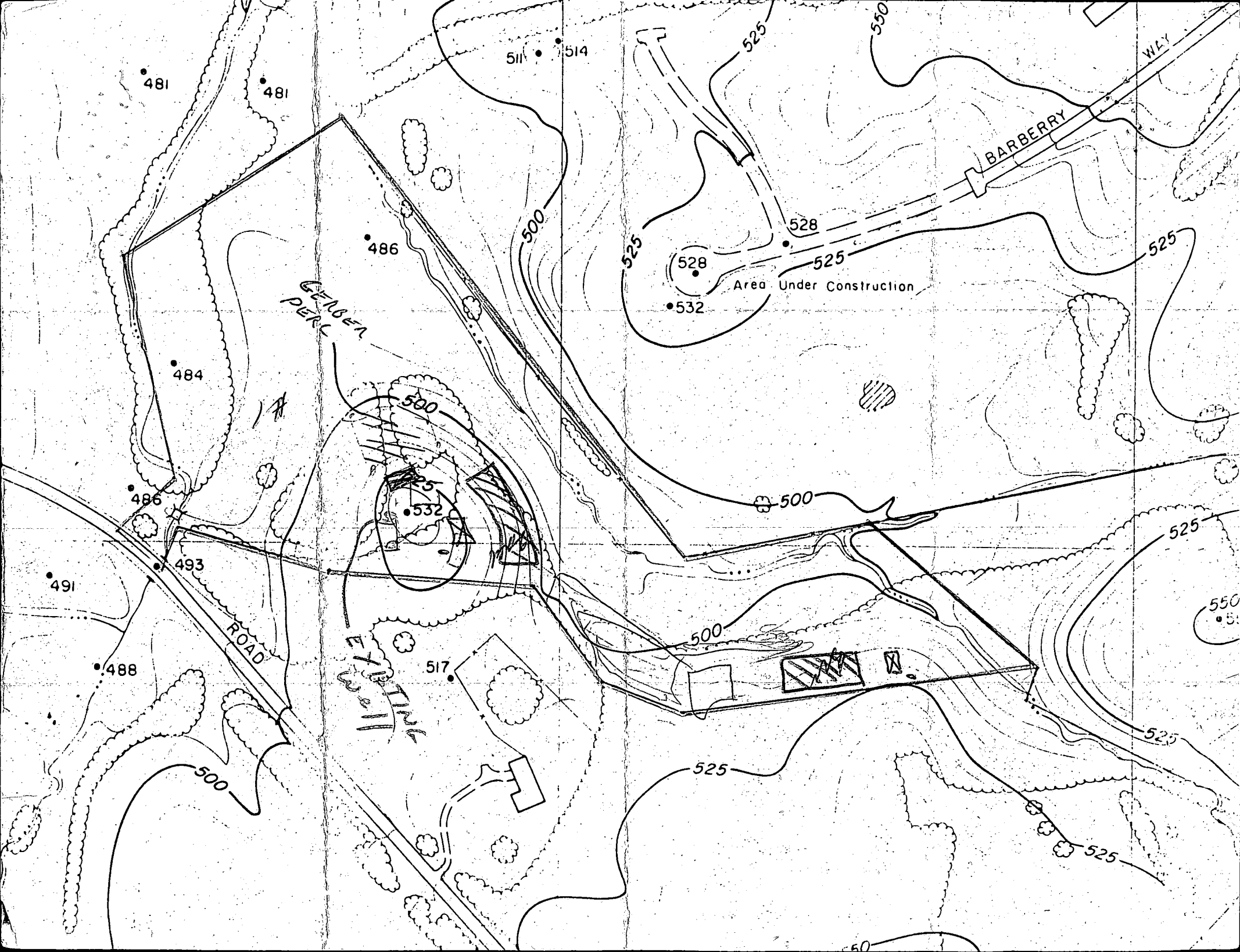
Sketch: A hand-drawn sketch showing a north-south road labeled "Old Frederick Road". A well is marked with an "X" and labeled "X well". The well is located 40' - CASING, 2' ABOVE GRT, 36' - OPEN HOLE, and 11 - BAGS CEMENT. A north arrow points upwards.

Handwritten: 12/15/78

BOX NUMBER
 E 800
 N 540
 0/5 X well 5/5

COORDINATES
 NORTH COORDINATE 60 61 62 63 64 65
 EAST COORDINATE 57 58 59 60 61 62 63
 ELEVATION AT WELL HEAD (FEET) 65 66 67 68
 0/0 5/0

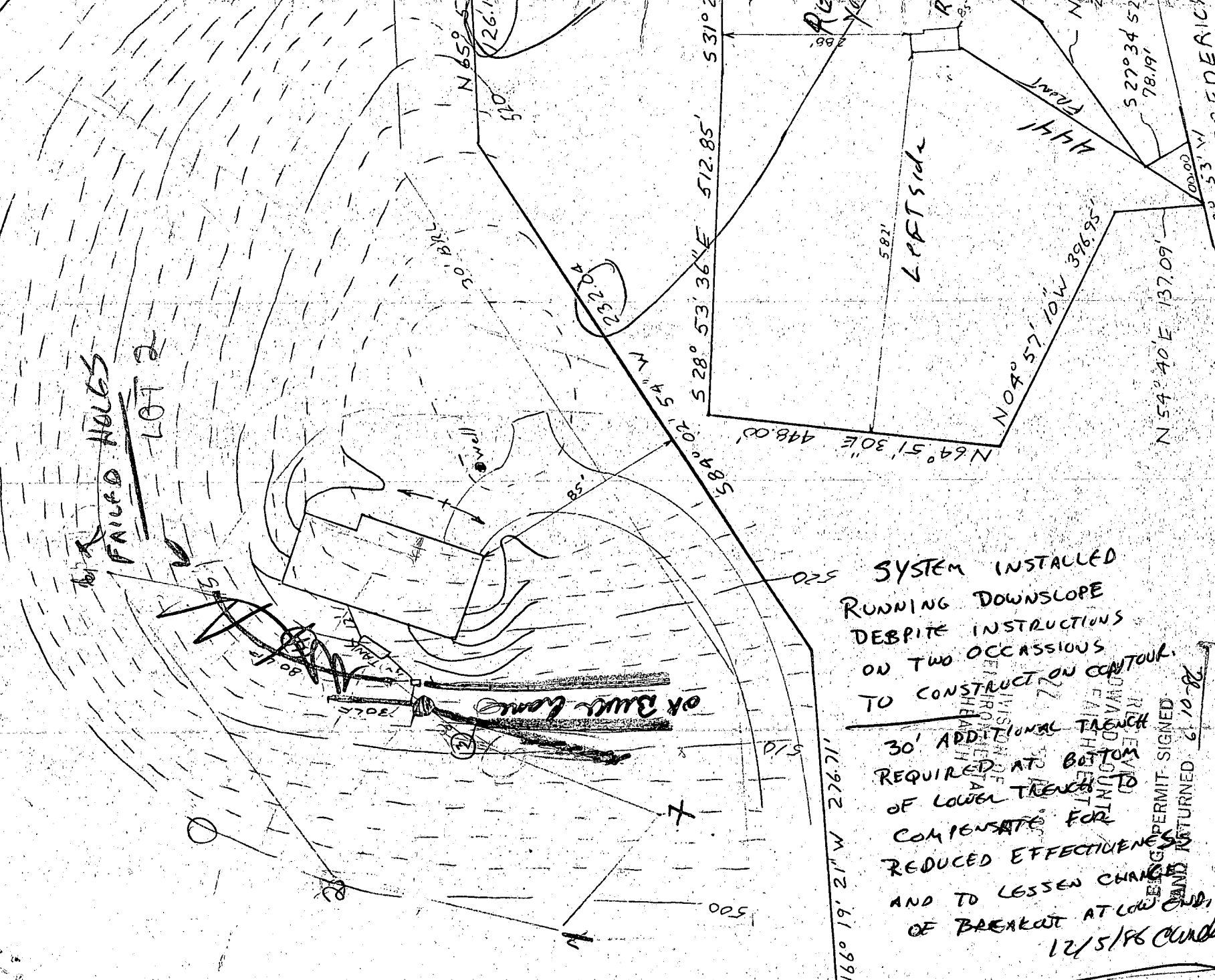
B 5 SPECIAL CONDITIONS 8-63 (WRA USE ONLY)
 1 2 3 (SEQ. NO.) 6



1"=50'

FAILED HOLES
LOT 2

LOT 1



SYSTEM INSTALLED
 RUNNING DOWNSLOPE
 DEBITE INSTRUCTIONS
 ON TWO OCCASSIONS
 TO CONSTRUCT ON CONTOUR.
 30' ADDITIONAL TRENCH
 REQUIRED AT BOTTOM
 OF LOWER TRENCH TO
 COMPENSATE FOR
 REDUCED EFFECTIVENESS
 AND TO LESSEN CHANGE
 OF BREAKOUT AT LOW END
 PERMIT SIGNED
 AND RETURNED 6/10/80
 12/5/86 Cudde