

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

BUREAU OF ENVIRONMENTAL HEALTH
461-9933

05-407621
INDEXED

P 42503

A 34984

DISTRICT 5th

DATE 8-30-88

DATE SYSTEM APPROVED 1/24/89

INSPECTOR C.B. ✓

Kerwin Homes

IS PERMITTED TO INSTALL ☒ ALTER

ADDRESS 24024 Frederick Road, Clarksbury, Maryland 20871 PHONE 301 353-0561 428-0800

SUBDIVISION Waterford ROAD 12901 Wexford Park LOT 22, Sec. 2

PROPERTY OWNER Horace Malcolm Kerwin Homes

ADDRESS

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

GARBAGE GRINDER? YES ☒ NO

SEPTIC TANK CAPACITY 2000 GALLONS NUMBER OF BEDROOMS 5

TRENCHES - 220 sq. ft. per bedroom with garbage disposal. Trench to be 7 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 4.5 feet below original grade. Effective area begins at 3.0 feet below original grade 7.5 feet of stone below distribution pipe. 2.5

LOCATION - Place the distribution box 65 feet off the front (465') lot line and 125 feet off the right (250') lot line as seen when facing the lot from Waterford Park. Run trenches on contour toward the front lot line.

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

1/19/89 INSTALL 2-110" TRENCHES. CHANGES BY (SA)

PLANS APPROVED BY Sid Abel DATE 4/01/87

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

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.

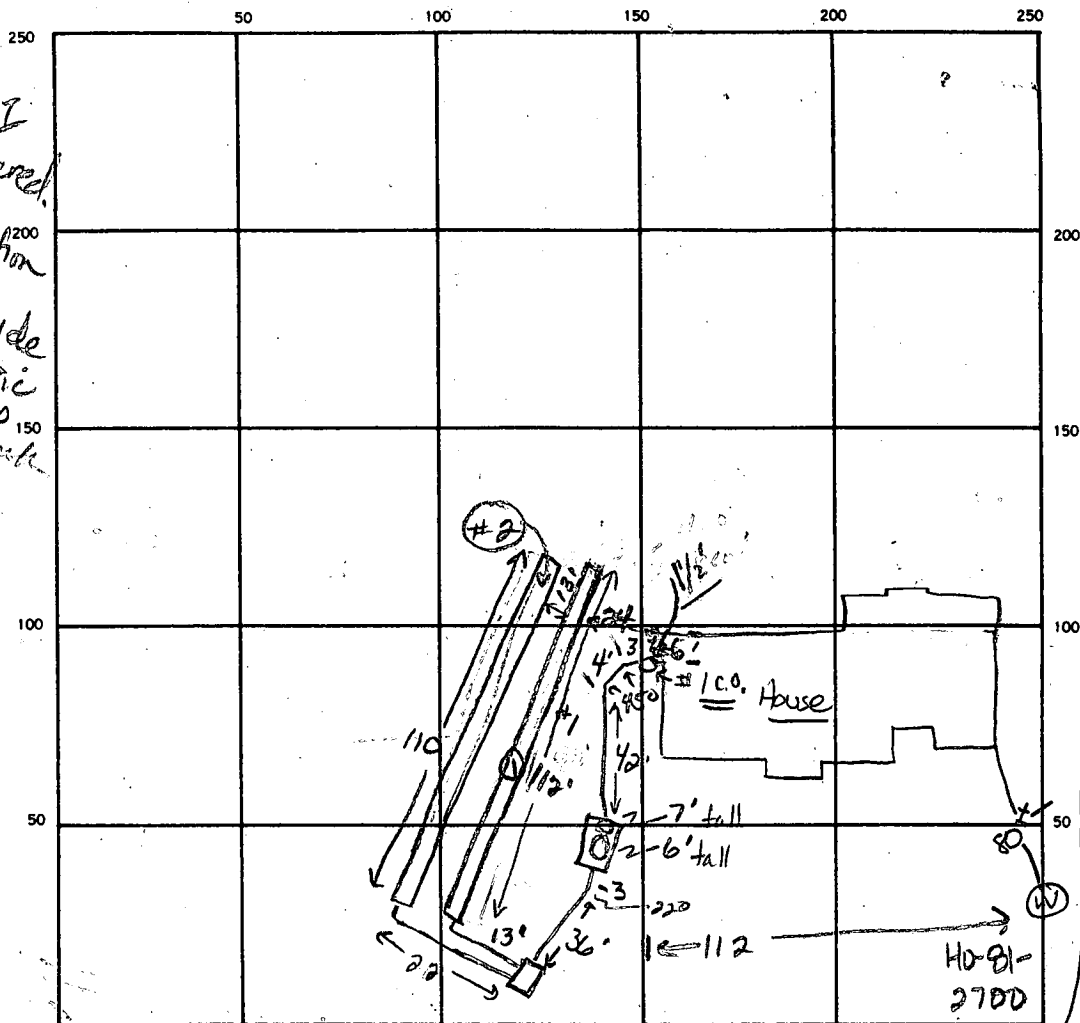
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES.

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APROVAL ON THIS PERMIT

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1186

A 34984



SEPTIC TANK, LEVEL

2000 gal

CLEANOUTS

1 Hole on tank
1 at house, 1 on tank just to grade
#1 C.O. at rear of home

DISTRIBUTION BOX, LEVEL

OK w/ baffle

DRAIN FIELD/TILE FIELD, DEPTH

1.5 8.0

TRENCH WIDTH

2

FT.

INLET DEPTH

2.5 / 2.5

EFFECTIVE GRAVEL DEPTH

5.0 / 5.0

FT.

TOTAL LENGTH

112 / 110

FT.

3222

NUMBER OF TRENCHES

2

ONE SIDEWALL BOTTOM AREA

560 / 550 / 1110

SQ. FT.

DRYWELL INSIDE DIAMETER

FT.

EFFECTIVE DEPTH BELOW INLET

FT.

ABSORBENT AREA

1110

SQ. FT.

REMARKS

1/19/89 - Field Inspection reveals that due to natural contours under fill material would require that approx 2/3 of SDA be consumed with 1st system; to save space 1st system deep with all repairs shallower (standard trenches) S. And

1-20-89 OK to stone, pipe & paper trench #1. Cement at S-Tank inlet & outlet. Remove foundation drainage pipe 10 ft from trench. JEN 1-23-89 S tank cemented at outlet & inlet. OK to stone #2 JEN; 1/24/89 Trench #2 only, finished.

DATE SYSTEM APPROVED

1/24/89

INSPECTOR

Charles Bryan Stricker

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 992-2330

A 34984

P _____

DISTRICT 5th ELECTION

DATE 2-14-85

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 HUNTINGTON INTERNATIONAL CORPORATION

ADDRESS 4951 ROCKWOOD PARKWAY NW, WASH, D.C. 20016 PHONE (202) 659-2474

PROPERTY LOCATION: WATERFORD

SUBDIVISION HUNTINGTON ESTATES Section 2 LOT NO. DC 10 LOT 22 ^{Pulim.}

ROAD AND DESCRIPTION ON BRIGHTON ROAD, 1800' WEST OF TEN OAKS ROAD
INTERSECTION 12901 WEXFORD PARK

SIZE OF LOT 3.34 Acre TYPE BLDG. SINGLE FAMILY DWELLING
(NUMBER OF BEDROOMS)

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. Charles J. Connors

(SIGNATURE OF APPLICANT)

APPROVED BY Siching Abel FOR Shallow Tile fields DATE 4-1-87

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 4-3-85 PERC. SATISFACTORY, HOLD for certified hole

LOCATION subdivision PLAT, HOUSE AND WELL SITE 8A66

12/13/85 Shallow System only S. Abel

BLDG. PERMIT SIGNED
AND RETURNED 7/20/88

(SFD BP 19723)

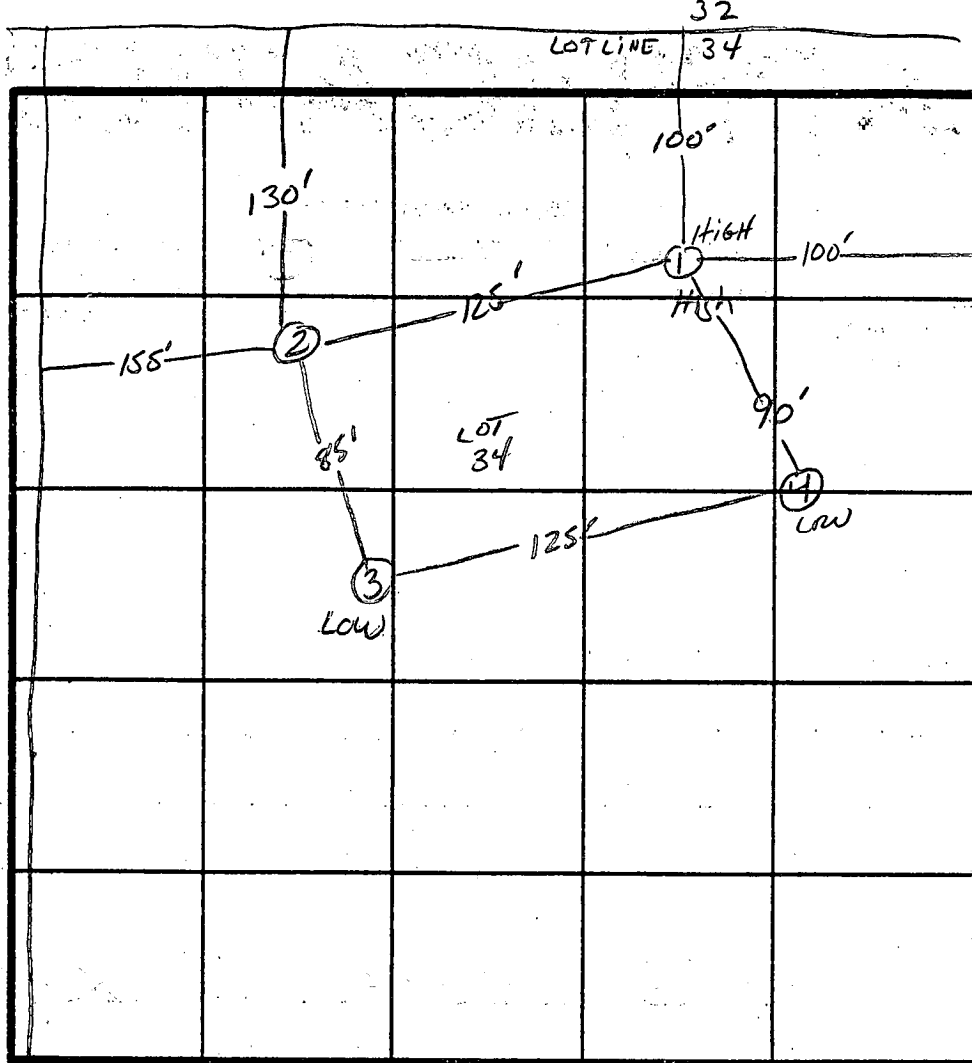
THIS IS NOT A PERMIT

SOIL PROFILE

0'	A1-3
6"	BROWN SILT CLAY LOAM 40% SAPROLITE
2'	BROWN/Grey Silty SAND 10-20% SAPROLITE
10'	Δ #4
11'	Δ #3
12'	

6" (2)

6"	AI-3
	BROWN SILTY CLAY LOAM L 10% SAPROLITE
3'	WHITE BROWN SILTY SAND 10-20% SAPROLITE



Row 8d.

\bar{x} Perc Time
3min

INLET 3'-
Bottom 4.5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
BRIGHTON DAM RD.

[illegible]

REMARKS 12-13-85 Shallow System only Sat

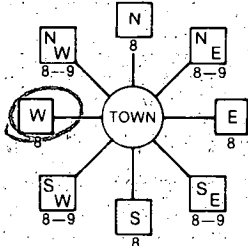
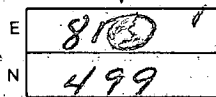
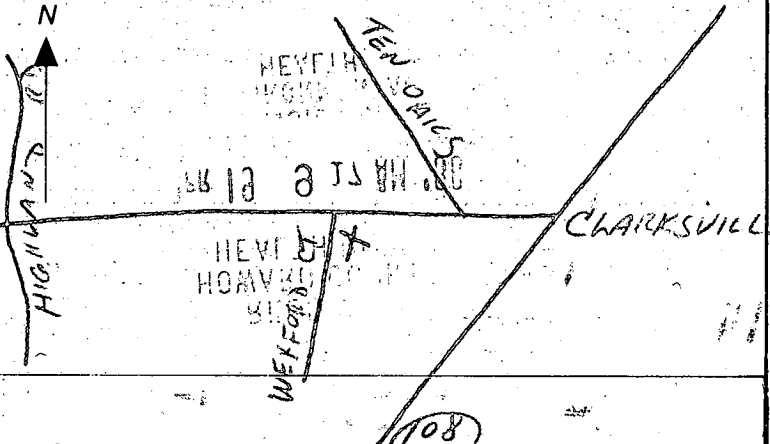
: TYPE OF SOIL

TESTED BY

Abel

TERRY, LES, DONALD
ALSO PRESENT

ALSO PRESENT

B 1 6472 <small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>	SEQUENCE NO. (DP USE ONLY) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER HO-81-2700 <small>fill in this form completely</small>
Date Received (APA) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	LOCATION OF WELL R-4/537 HOWARD COUNTY WATERFORD SUBDIVISION SECTION 2 LOT 22 CLARKSVILLE NEAREST TOWN MILES FROM TOWN (enter 0 if in town) 2 M 1		
OWNER INFORMATION KERWIN HOMES INC. 24024 ZIEDECKER RD. CLARKSBURG TOWN RD 20771 STATE ZIP		DRILLER INFORMATION George F. Easterday L. Franklin Easterday, Inc. 9265 Brown Church Rd., Mt. Airy, Md. 21771 George F. Easterday 4/6/88 Signature Date	
WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500		DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) WEXFORD CT DISTANCE FROM ROAD 50 FEET ENTER FT or MI FT	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) <input type="checkbox"/> PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) <input type="checkbox"/> TEST OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard COUNTY NAME A34984 COUNTY NO. STATE SIGNATURE CO SIGNATURE 11/2/88 DATE ISSUED NORTH GRID 499000 EAST GRID 0811000	
APPROXIMATE DEPTH OF WELL 200 FEET APPROXIMATE DIAMETER OF WELL 6 INCH		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. WELL 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE 	
METHOD OF DRILLING (circle one) BORED (or Augered) <input checked="" type="checkbox"/> AIR-ROTARY <input type="checkbox"/> AIR-PERCussion <input type="checkbox"/> ROTARY (Hydraulic Rotary) <input type="checkbox"/> JETTED <input type="checkbox"/> Jettied & DRIVEN <input type="checkbox"/> CABLE <input type="checkbox"/> REVERSE-ROTARY <input type="checkbox"/> DRIVE-POINT <input type="checkbox"/> 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) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY <input type="checkbox"/> THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)		SPECIAL CONDITIONS	
Not to be filled in by driller (OEP USE ONLY) APPROP. PERMIT NUMBER GAP FORCE CW INITIALS IN BOX PERMIT No. HO-81-2700 COUNTY			

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2700
Location of property (road) WEYFORD CT
Subdivision WATERFORD II Lot 22 Block Plat Sec.
Well Driller ~~B~~ G. EASTON, JR. Owner KENNETH HOMES

Depth of well 200
Distance of measuring point (M.P.) above ground 2'
Static water level (S.W.L.) below M.P. 32'

I. High rate pumping -- reservoir drawdown

Time pump started 1115 Pumping rate 12gpm
Total time 30 min to reach pumping water level 75 ft. below M.P.

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

[illegible]

P.T. on fund
(go out to be later)

H₂O sample
taken 1230 p

DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO.

THIS NUMBER IS TO BE PUNCHED
(IN COLS. 3-6 ON ALL CARDS)

052788

2220026
(TO NEAREST FOOT)

FROM "PERMIT TO DRILL WELL"
40-81-2700

OWNER

last name

first name

TOWN

STREET OR RFD

WEXFORD CT

SECTION

2

LOT

2

SUBDIVISION

WEXFORD

SECTION

2

LOT

2

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	TO
Top soil	0	2
Br. Mica	2	35
Tan Mica	35	51
Gray Mica	51	53
Tan Mica	53	55
Gray Mica	55	62
Tan Mica	62	70
Br. Mica	70	74
Tan Mica	74	90
Gray Mica	90	120
Hint	120	140
Gray Mica	140	200

GROUTING RECORD

yesno

YNY

TYPE OF GROUTING MATERIAL

CEMENTCMBENTONITE CLAYBC

NO. OF BAGS15NO. OF POUNDS1500

GALLONS OF WATER75

DEPTH OF GROUT SEAL (to nearest foot)

from0ft. to43ft.

CASING RECORD

casing types insert appropriate code below

STEELSTCONCRETECO

PLASTICPLOTHOTHEROT

MAIN CASING TYPE

Nominal diameter top (main) casing (nearest inch)

Total depth of main casing (nearest foot)

ST150

OTHER CASING (if used)

diameter inch

depth (feet) from to

SCREEN RECORD

screen type or open hole

insert appropriate code below

STEELSTBRASSBROPEN HOLEHO

PLASTICPLOTHOTHEROT

C2

DEPTH (nearest ft.)

14048200

232426303236

383941454751

SLOT SIZE 1 2 3

DIAMETER OF SCREEN

5660

from to

GRAVEL PACK

IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

68

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

T. (E.R.O.S.) WQ

7072747576

TELESCOPE CASING LOG INDICATOR OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour)3

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

METHOD USED TO MEASURE PUMPING RATEBucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING32

WHEN PUMPING77

TYPE OF PUMP USED (for test)

AairPpistonTturbine

CcentrifugalRrotaryOother (describe below)

JjetSsubmersible

PUMP INSTALLED

DRILLER WILL INSTALL PUMP YESNO

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)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height)

LAND SURFACE

49below

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)

40'40'

Wexford Ct.

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.40

DRILLERS SIGNATUREGeorge J. Enderday

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

across from Church
Review SE corner lot

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2700

Location of property (road) WEXFORD CT

Subdivision WATERFORD II

Lot 22 Block Plat Sec.

Well Driller G. EASTENDAY

Owner KEVIN HOFF

Depth of well 200 12G PM

Distance of measuring point (M.P.) above ground 27

Static water level (S.W.L.) below M.P. 32 Ft

I. High rate pumping -- reservoir drawdown

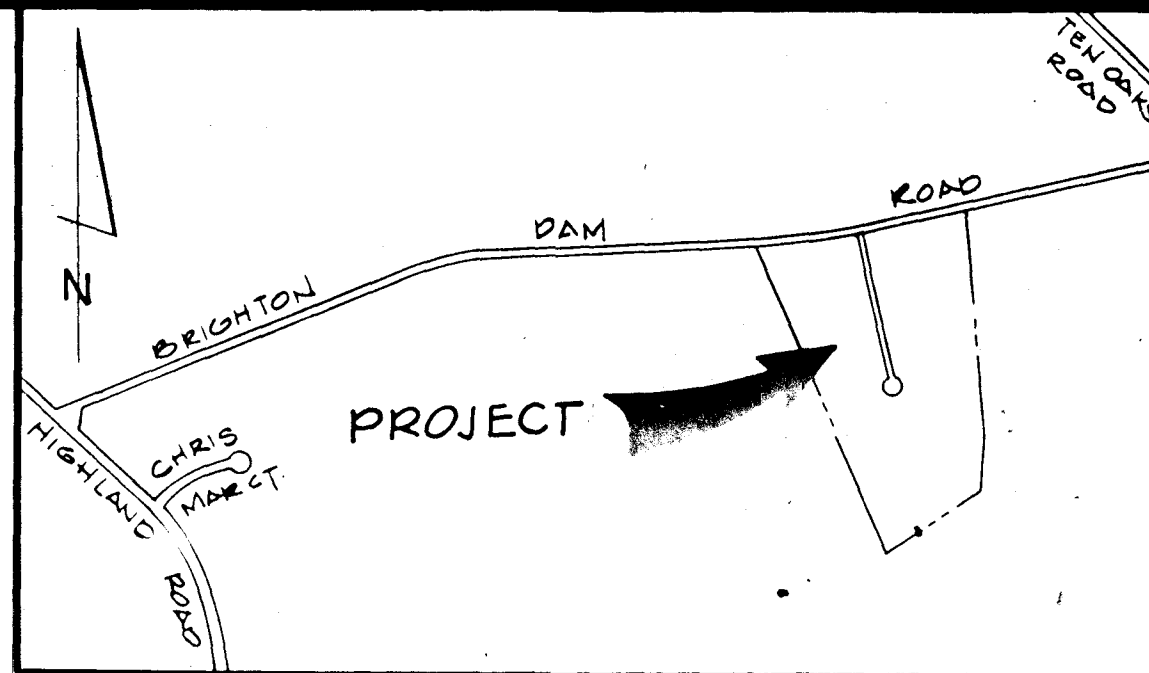
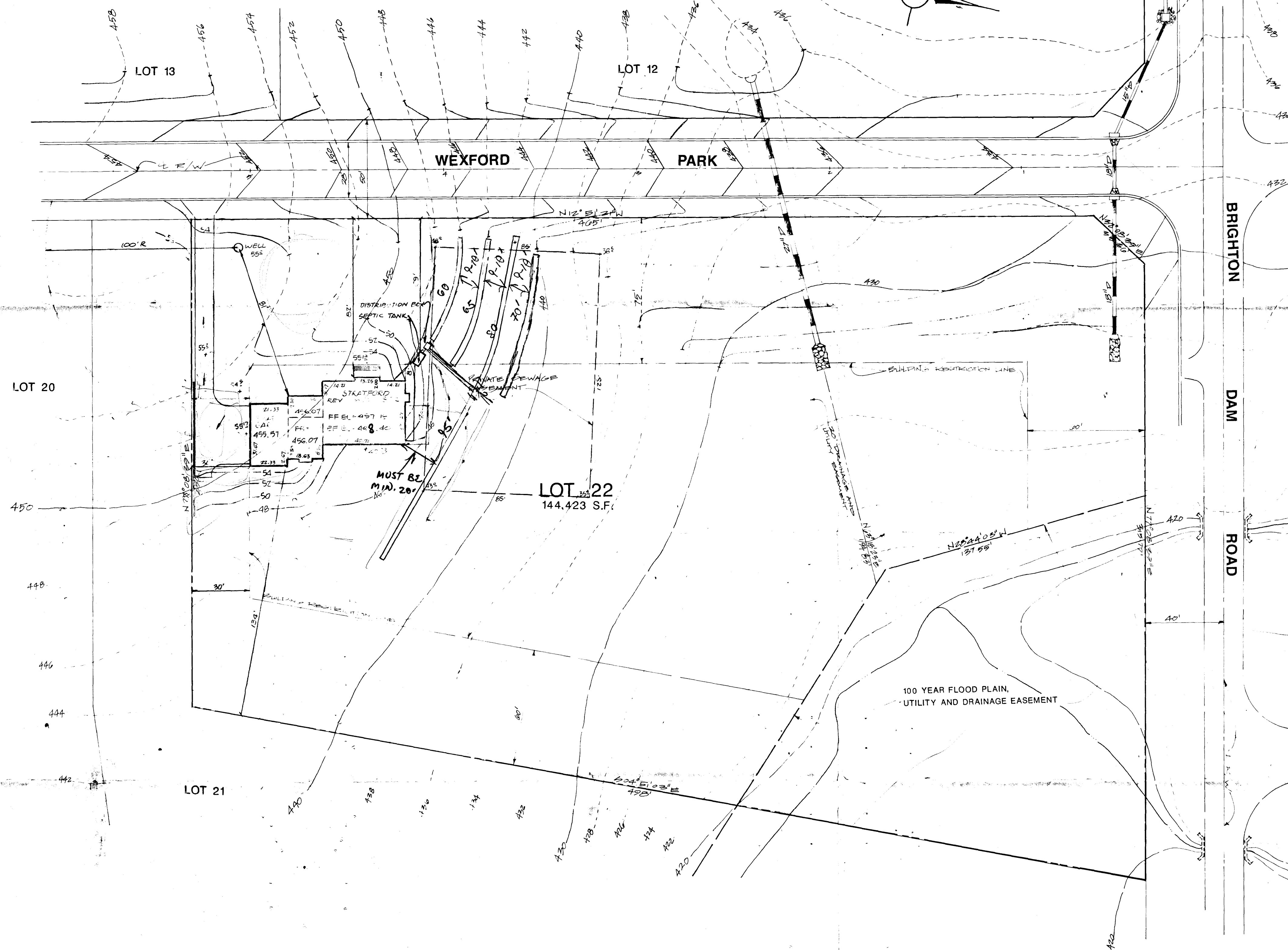
Time pump started 11:15

Pumping rate 12 GPM

Total time 30 to reach pumping water level 75 ft. ft. below M.P.

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

[illegible]



VICINITY MAP

SCALE: 1" = 1200'

GENERAL NOTES

1. Approved Perc Certification Plan prepared by Fisher, Collins, & Carter, Inc., November, 1985 and known as Huntington Estates.
2. Existing topography taken from Perc Certification Plan.
3. For house plans and layout refer to architectural plans by:
J. Carlos Osorio, P.C.
4229 Cherry Valley Drive
Olney, Maryland 20832
4. Subject property zoned 'R' per 8-2-85 Comprehensive Zoning Plan.
5. Water and sewer to be individual well and septic.
6. Contour interval: 2'
7. Recorded plat 7670, 3-17-88.

SEPTIC SYSTEM DESIGN

1. Invert at house 446.40
2. 1500 gallon septic tank (5 BR), provide cleanout
Ex. grade over tank 446.00
Prop. Grade over tank 446.00
Invert in: 445.50
Invert out: 445.30
3. Distribution Box
Ex. grade over box 446.00
Prop. grade over box 446.70
Invert in: 445.00
Invert out: 445.00

⊕ BASEMENT

4. Trench Design (180 SF / Bedroom)
5 Bedrooms x 180 SF = 900 SF required
900 SF / (3' width x 4.5' effective sidewall) = 67 LF req'd. min.
Ex. grade over trench = 446.00
Prop. grade over trench = 446.00
Invert of 4" perf. pipe = 443.00
Bottom of trench = 441.50

LOT SIZE = 144,423 S.F.
DISTURBED AREA (for house) 14,400 S.F.
IMPERVIOUS AREA 5,300 S.F.

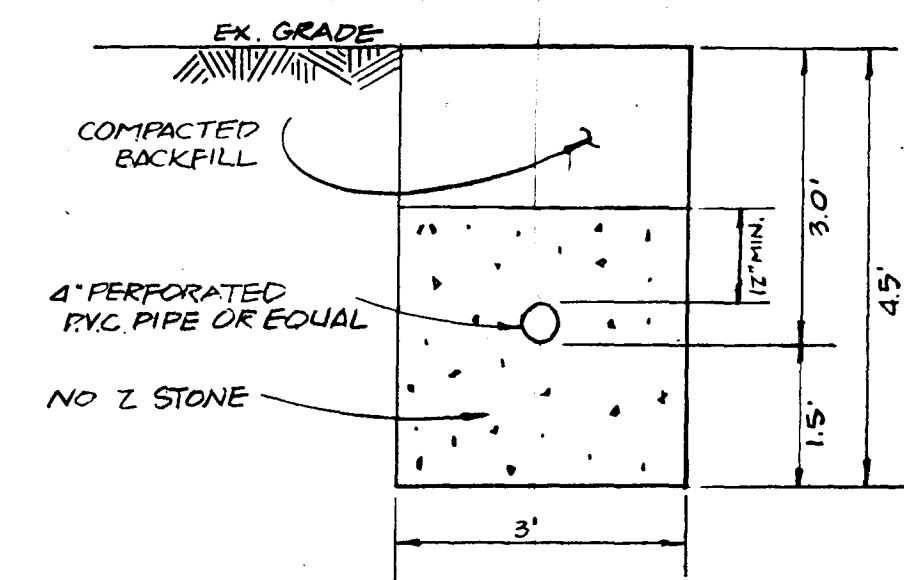
OWNER / DEVELOPER :

KERWIN HOMES
24024 FREDERICK ROAD
CLARKSBURG, MARYLAND 20871

REVISED 7/20/88
Date: 7/20/88
Comments: from 2 to 3 car garage

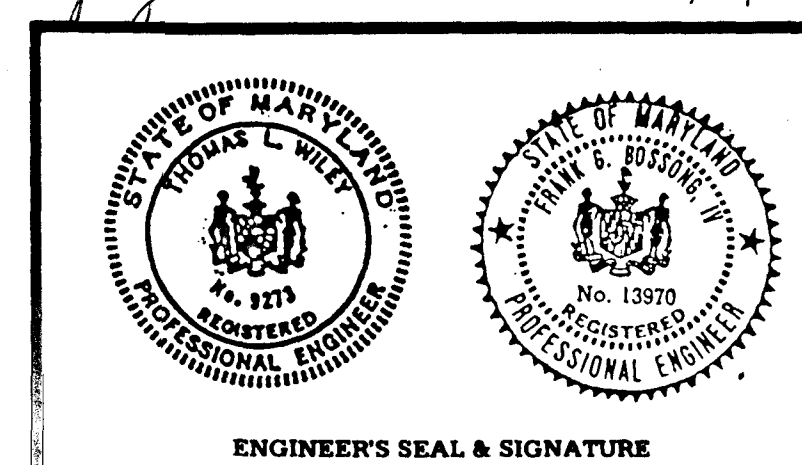
THIS PRINT MADE
JUL 18 1988
DATE PERMIT SIGNED
AND RETURNED
SPD 7/20/88

NOTE
INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF EXCAVATION. CONTACT "MISS UTILITY" AT 800-257-7777 48 HOURS IN ADVANCE OF THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE RESPECTIVE UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.



TRENCH DETAIL
NOT TO SCALE

No	Date	Description	Revisions
1	7/20/88	REV TO REAR ENTRY CAR GAR RT	



Drawn By S.A.
Designed By S.S.
Checked By S.S.
Date JUNE 1988
Scale 1" = 30'
Plan Number
Zoned R
Sheet 1 of 1
File Number
DP - 136

Dewberry & Davis
Architects Engineers Planners Surveyors
804 WEST DIAMOND AVENUE
GAITHERSBURG, MARYLAND 20878
TEL: (301) 948-8800

SITE DEVELOPMENT PLAN
WATERFORD (SECTION 2, LOT 22)
TAX MAP 34 PARCEL 261
5TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND