

04-319885
PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 50651

A 48395

DISTRICT _____

DATE 04/13/95

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXXXX~~ 313-2640

DATE SYSTEM APPROVED 4/25/95

INSPECTOR *[Signature]*

INDEXED

Fogle's Septic Clean, Inc. IS PERMITTED TO INSTALL ALTER _____

ADDRESS 558 Obrecht Road, Sykesville, Maryland 21784 PHONE 795-5674

SUBDIVISION Jefferson Property LOT Tenant House ROAD 18653 Penn Shop Road

PROPERTY OWNER John M. & Pearl H. Jefferson

ADDRESS 18653 Penn Shop Road
Mt. Airy, Maryland 21771

SAND MOUND SYSTEM

Number of Bedrooms 3

Septic Tank Capacity 1500 Gallons - Top Seamed and Two Chambered

Pump Chamber 1000 Gallons, Top Seamed

Sand Mound to be installed as per previously approved (06/17/93) Design Plans and Specifications (as drawn by Jim Clise).

- Stake out initial sand mound site and call for field varification by local health dept.
- Rope off reserve sewage disposal area during entire construction phase.
- Provide a copy of recent seive analysis of sand mound sand for health department approval.
- 48 hours notice required prior to construction of sand mound.
- Any deviation from the approved plans must be verified and approved by this department prior to implimentation.

PLANS APPROVED BY Ronald J. Pinkley DATE 04/13/95

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

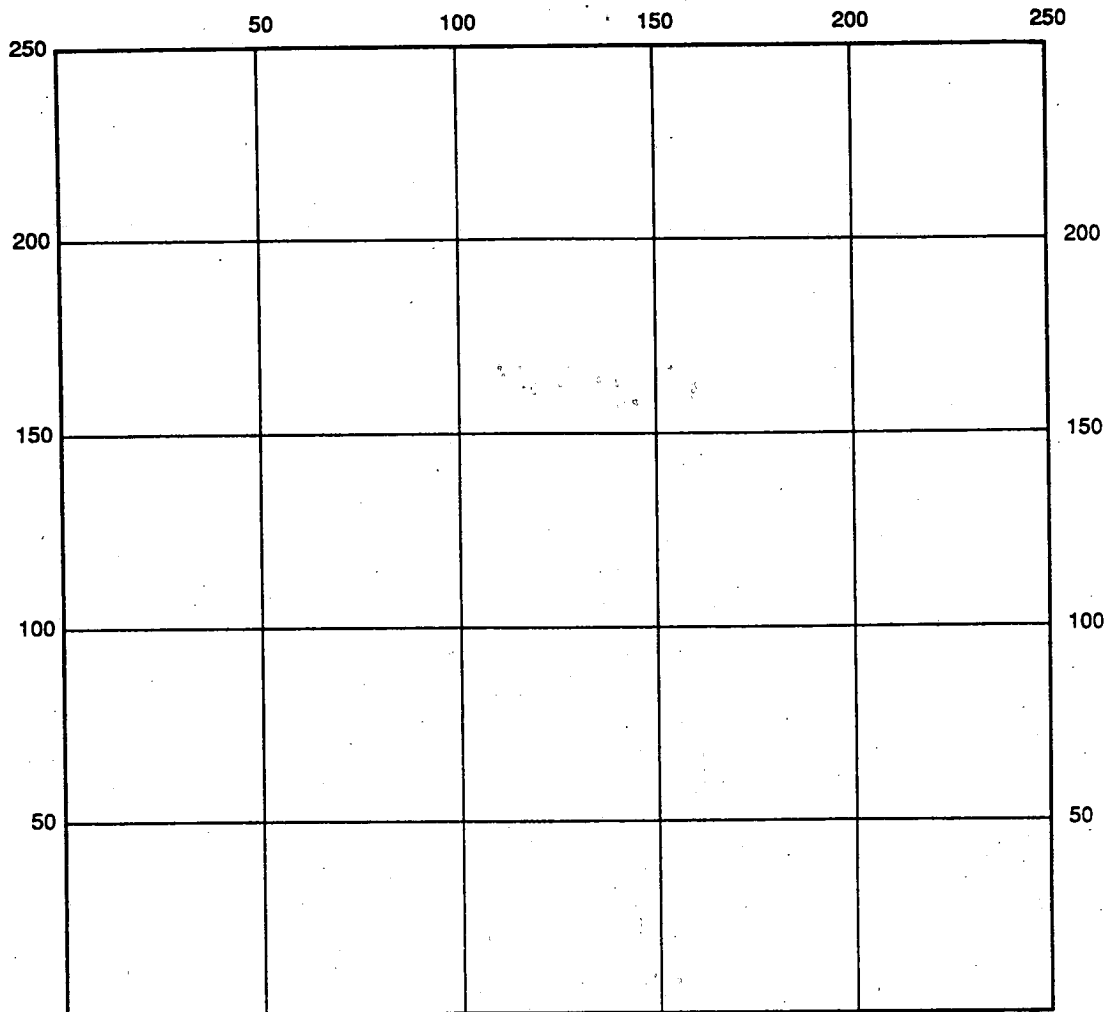
PERMIT VOID AFTER TWO YEARS

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**

48395



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Pump Chamber 1000 gal top Seamed Manholes S.T. + P.C.
 SEPTIC TANK LEVEL 1500 gal top Seamed, 2 chambered CLEANOUTS _____

DISTRIBUTION BOX LEVEL Pressured Dosed

DRAIN FIELD/TILE DEPTH _____ FT. ^{Gravel Bed} TRENCH WIDTH _____ FT. ^{Ground level to top Edge of Sand Bed} DEPTH _____ FT.

EFFECTIVE GRAVEL DEPTH _____ FT. TOTAL LENGTH _____ FT. OF S.M. ^{perforation diameters}
^{total width} _____ FT. OF S.M. ^{" " spacing}

NUMBER OF TRENCHES ^{Laterals} _____ ONE SIDEWALL/BOTTOM AREA _____ SQ. FT.

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

ABSORBENT AREA _____ SQ. FT. ^{Gravel Bed}
^{Basal Area} _____ sq ft ^{observation pipes ① ②}

REMARKS: _____

DATE SYSTEM APPROVED _____ INSPECTOR _____

4/19/95
Continue S.M. Const.
est. 2nd - gravel bed 12x12'

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 50651

A _____

DISTRICT _____

DATE 4-13-95

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

461-9933

DATE SYSTEM APPROVED _____

INSPECTOR _____

Fogle's Septic Clean, Inc. IS PERMITTED TO INSTALL _____ ALTER _____

ADDRESS 558-R Obrecht Road, Sykesville, Maryland 21784 PHONE 795-5674

SUBDIVISION Jefferson Property LOT Tenant House ROAD 18653 Penn Shop Road

PROPERTY OWNER John M. & Pearl H. Jefferson

ADDRESS 18653 Penn Shop Road
Mt. Airy, Maryland 21771

SEPTIC TANK CAPACITY _____ GALLONS

NUMBER OF BEDROOMS _____

_____ SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED _____

Interim Permit to prepare ground and begin sand placement as per approved plan submitted by S/E Engineering, Inc. Permit valid through April 18, 1995 only.

Applicant to secure complete permit by that date. Temporary extension thru April 19, 1995

approved 4/19/95 [Signature]

PLANS APPROVED BY [Signature] DATE 4/13/95

COVER NO WORK UNTIL INSPECTED AND APPROVED

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PERMIT VOID AFTER TWO YEARS

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NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

C1 **5155** 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 **A 48 395**

ST/CO USE ONLY
 DATE RECEIVED [] [] [] [] [] [] [] []
 DATE WELL COMPLETED **05 31 94**

Depth of Well
 22 **325** 26
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
HO-94-0076

OWNER **Jefferson Johnson**
 STREET OR RFD last name **18653 Penn Shop Rd** first name
 TOWN **Libby Corner**
 SUBDIVISION SECTION LOT

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		Check if water bearing
	FROM	TO	
Top Soil	0	2	
Brown Shale	2	30	
Brown Slate	30	35	✓
Blue Slate	35	60	
Brown Slate	60	65	✓
Blue Slate	65	225	
Flint Rock	225	230	✓
Blue Slate	230	325	

GROUTING RECORD
 WELL HAS BEEN GROUTED YES NO
 (Circle Appropriate Box)
 TYPE OF GROUTING MATERIAL
 CEMENT **CM** BENTONITE CLAY **BC**
 NO. OF BAGS **10** NO. OF ROUNDS **6000**
 GALLONS OF WATER
 DEPTH OF GROUT SEAL (to nearest foot)
 from **0** ft. to **37** ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST **CO**
 STEEL CONCRETE
 PL **OT**
 PLASTIC OTHER
 MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)
 PL **6** **40**
 60 61 63 64 66 70

OTHER CASING (if used)
 diameter inch depth (feet) from to
 [] [] [] [] [] []

SCREEN RECORD
 screen type or open hole insert appropriate code below
 ST **BR** **HO**
 STEEL BRASS OPEN HOLE
 PL **OT**
 PLASTIC OTHER

C2
 DEPTH (nearest ft.)
 1 **HO** **40** **325**
 8 9 11 15 17 21
 2 [] [] [] [] [] []
 23 24 26 30 32 36
 3 [] [] [] [] [] []
 38 39 41 45 47 51
 SLOT SIZE 1 _____ 2 _____ 3 _____
 DIAMETER OF SCREEN [] [] [] [] (NEAREST INCH)
 56 60

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 26.04.04 "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. **116**
Ruth Wayne

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

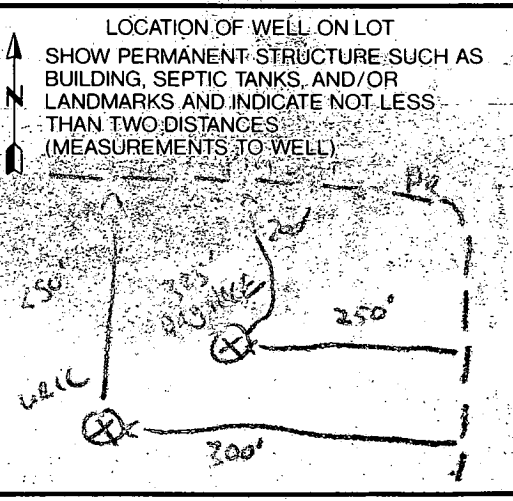
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68:

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) W Q
 70 [] 72 [] 74 [] 75 [] 76 []

TELESCOPE CASING LOG INDICATOR OTHER DATA

C3
PUMPING TEST
 HOURS PUMPED (nearest hour) **3**
 8 9
 PUMPING RATE (gal. per min. to nearest gal.) **4** [] [] [] []
 11 15
 METHOD USED TO MEASURE PUMPING RATE **Bucket**
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING **31** [] []
 17 20
 WHEN PUMPING **85** [] []
 22 25
 TYPE OF PUMP USED (for test)
 A air **P** piston **T** turbine
 27 27 27
 C centrifugal **R** rotary **O** other (describe below)
 27 27 27
 J jet **S** submersible
 27 27

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 35
 PUMP HORSE POWER [] [] [] []
 37 41
 PUMP COLUMN LENGTH (nearest ft.) [] [] [] []
 43 47
 CASING HEIGHT (circle appropriate box and enter casing height)
 above } LAND SURFACE
 below } **2** (nearest foot)
 49 50 51



PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

A _____

DISTRICT _____

DATE _____

DATE SYSTEM APPROVED _____

INSPECTOR _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

461-9933

Fogle SEPTIC

IS PERMITTED TO INSTALL _____ ALTER _____

ADDRESS *18653 Penn Shop Rd.* PHONE _____

SUBDIVISION *Jefferson Property* LOT *Tenant House* ROAD *18653 Penn Shop Rd*

PROPERTY OWNER _____

ADDRESS _____

SEPTIC TANK CAPACITY *1000* GALLONS *Pump Chamber* *Top Sealed 2 Chamber Septic Tank*

NUMBER OF BEDROOMS *2*

SQUARE FEET PER BEDROOM _____

LINEAR FEET OF TRENCH REQUIRED _____

Interim Permit to prepare ground and begin Sand Placement as per approved Plan submitted by S/E Engineering Inc. Permit Valid Thru April 18th only. Applicant to Secure Complete Permit by that date.

PLANS APPROVED BY _____ DATE _____

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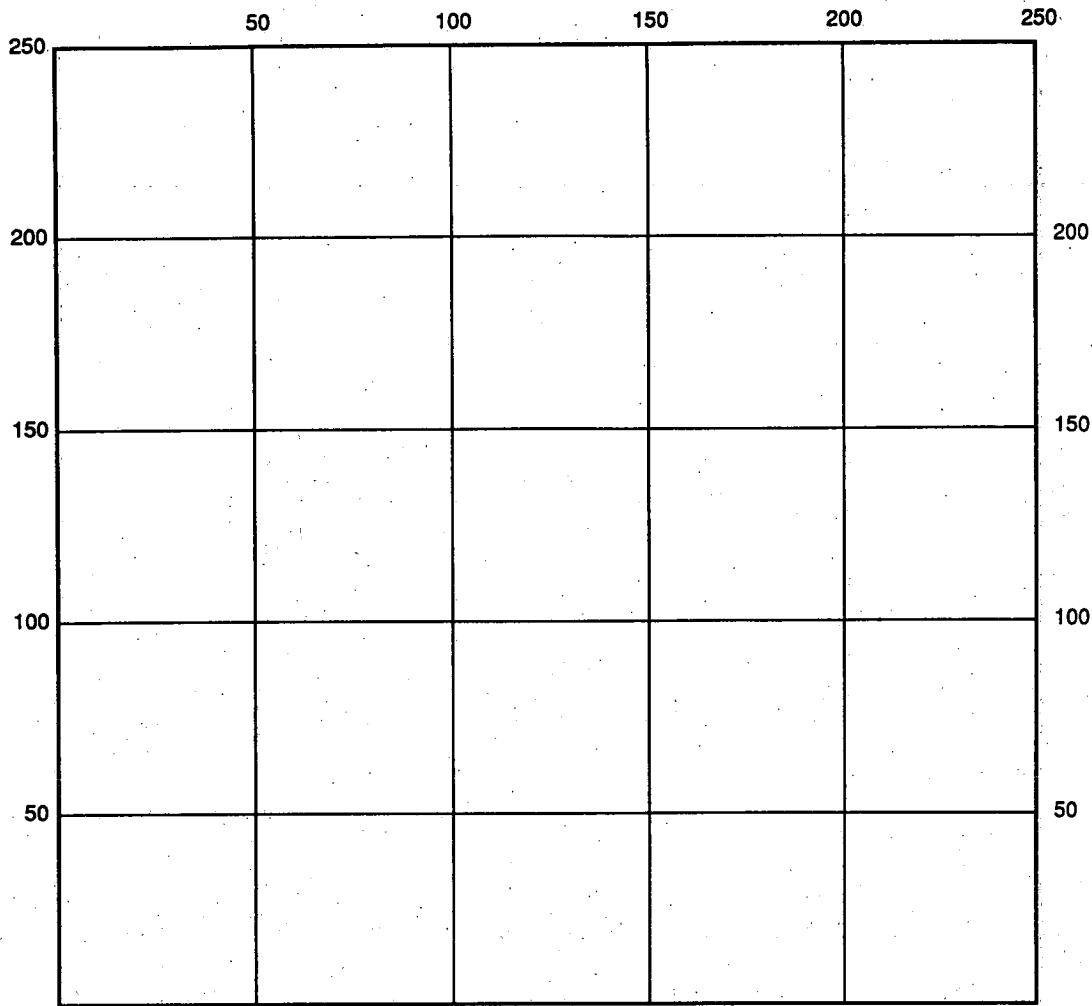
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***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL _____ CLEANOUTS _____

DISTRIBUTION BOX LEVEL _____

DRAIN FIELD/TITLE DEPTH _____ FT. TRENCH WIDTH _____ FT. INLET DEPTH _____ FT.

EFFECTIVE GRAVEL DEPTH _____ FT. TOTAL LENGTH _____ FT.

NUMBER OF TRENCHES _____ ONE SIDEWALL/BOTTOM AREA _____ SQ. FT.

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

ABSORBENT AREA _____ SQ. FT.

REMARKS: _____

DATE SYSTEM APPROVED _____ INSPECTOR _____

APPLICATION

HOWARD COUNTY

SERIAL NUMBER

PERMIT APPLICATION

56416

DEPARTMENT OF INSPECTIONS, LICENSES & PERMIT
3430 COURT HOUSE DRIVE, ELLICOTT CITY, MARYLAND 21043

BUILDING ADDRESS (HOUSE NO., STREET, TOWN OR AREA)

19653
19653 Penn Shop Rd. Md City. Md 21111-7935

GRADING/SEDIMENT CONTROL YES NO

SDP #

DESCRIPTION OF WORK AUTHORIZED

3-ESD200MS

LOT NO.	PARCEL NO.	SEC.	AREA	BLOCK NO.	LIBER	FOLIO
A	716	NA	NA	9		
SUB DIVISION		ZONE	ZONE MAP	ELEC. DIST.	CENSUS TR.	
NA		RC	6	L		

OWNER NAME AND ADDRESS
19653 Penn Shop Rd. (301) 929-2471
John M. Pearl H. Jefferson

PHONE NO.

SIZE OF BLDG.	FRONT	DEPTH	HEIGHT

OCCUPANT'S NAME AND ADDRESS
same as above

PHONE NO.

TYPE OF BLDG.	AREA	VOLUME	ROOF
B. ROOMS			
ROOMS			
BATHS			
FIREPLACES			

ARCHITECT OR ENGINEER'S NAME AND ADDRESS
S. M. McCall
R. M. McCall (301) 461-0079

PHONE NO.

FOOTINGS	FOUNDATION	S. WALLS

CONTRACTOR'S NAME AND ADDRESS
S. M. McCall

PHONE NO.

UTILITIES				
WATER/WELL	SEWER/SEPTIC	GAS	ELECTRICITY	TYPE OF HEAT

I have carefully examined and read this application and know the same is true and correct, and that is doing this work, all provisions of Howard County Ordinances and the State Laws of Maryland will be complied with, whether specified or not; and I will notify the Department of Inspections, and Permits twenty-four hours in advance when I am ready for the inspections called for elsewhere in the application; and that no work will be covered up until such inspections have been completed with.

EXISTING USE: FARM
PROPOSED USE: SFD

EST. CONSTRUCTION COST: 150,000
LICENSE NUMBER: _____
PERMIT FEE: _____

SIGNATURE: _____
TITLE: _____
DATE: _____

FOR OFFICE USE ONLY

DISTRICT IN FEET FROM R/W LINE TO FRONT BUILDING LINE _____

SIDE YARD _____
(DISTANCE IN FEET FROM SIDE BLDG. LINE TO SIDE PROPERTY LINE)

TO SIDE BUILDING LINE _____
DISTANCE IN FEET, REAR YD. REQUIRING SET

BACK _____ (CORNER LOT ONLY)

SDP # _____

FUNCTION	DATE	SIGNATURE APPROVAL
ZONING/PLANNING		
SHA		
SEDIMENT/GRADING		
BUILDING OFFICIAL		
WATER & SEWER		
HEALTH DEPT.	9-26-94	Amy McCall
FIRE PROTECTION		
STORM WATER MGM.		

Check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

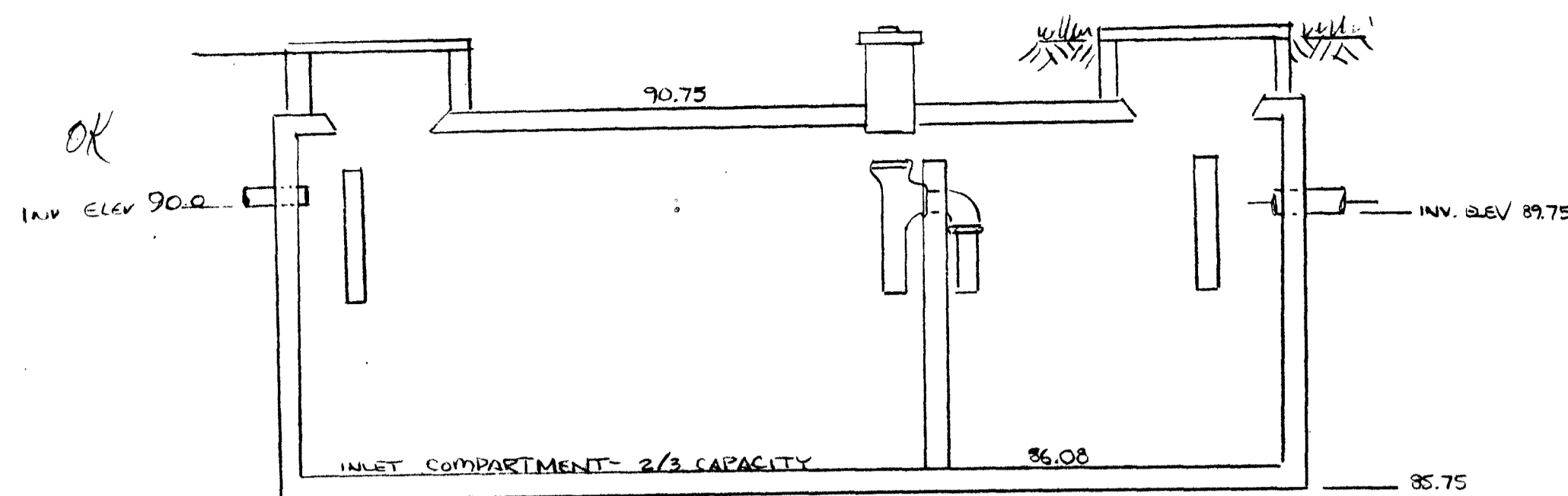
CAUTION
To begin construction before a permit placard has been issued and displayed on the job is a violation of the law.
Use and occupancy permit must be applied for two weeks before it will be issued.

IMPORTANT: PLEASE SHOW ZIP CODES AND AREA CODES WHEREVER REQUIRED.

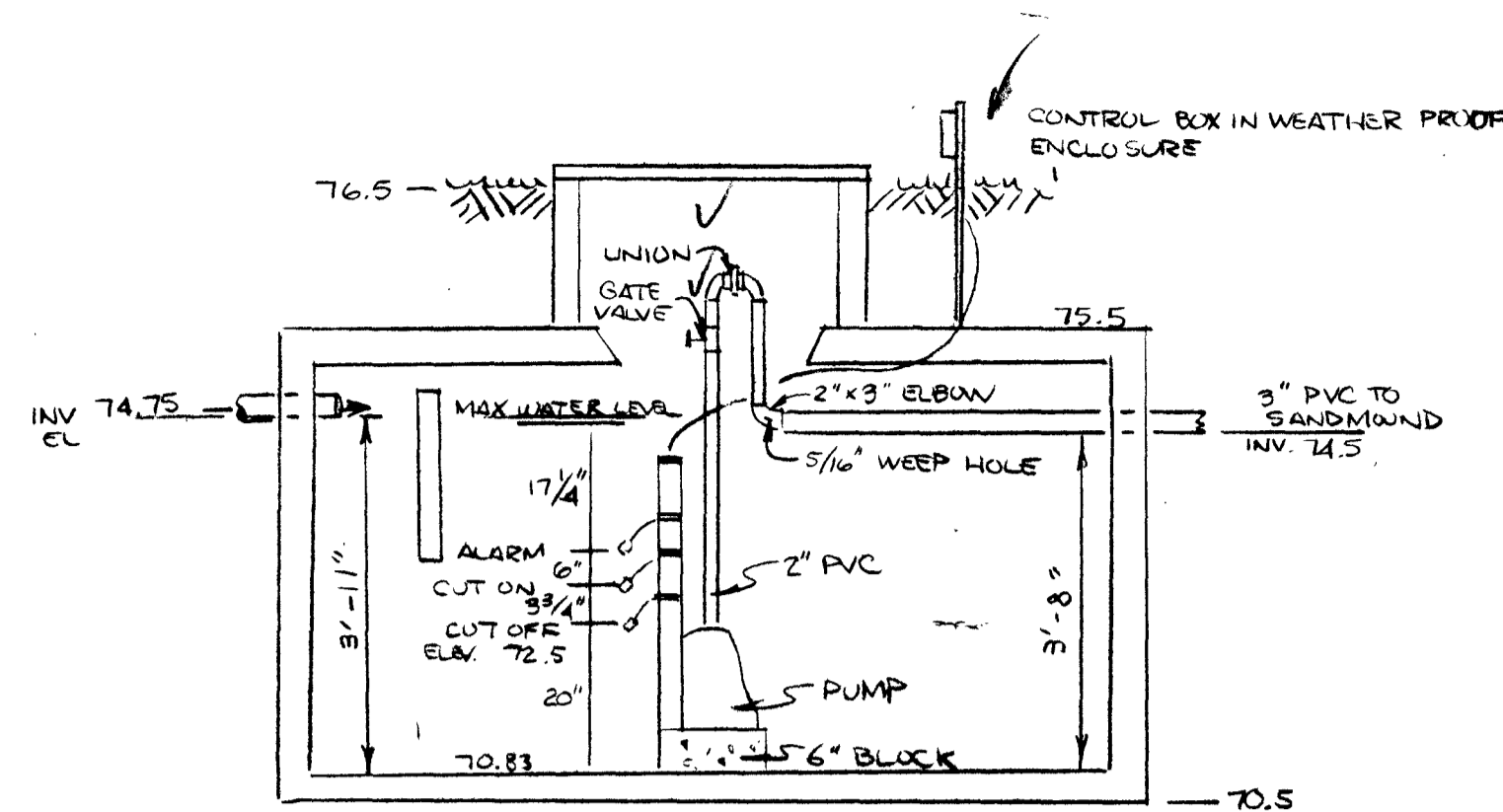
APPROVED _____ DATE _____

LP-69-591

Distribution of Copies:
White - Building Official
Green - Planning & Zoning
Yellow - Engineering
Pink - Health Dept.
Gold - S.H.A.



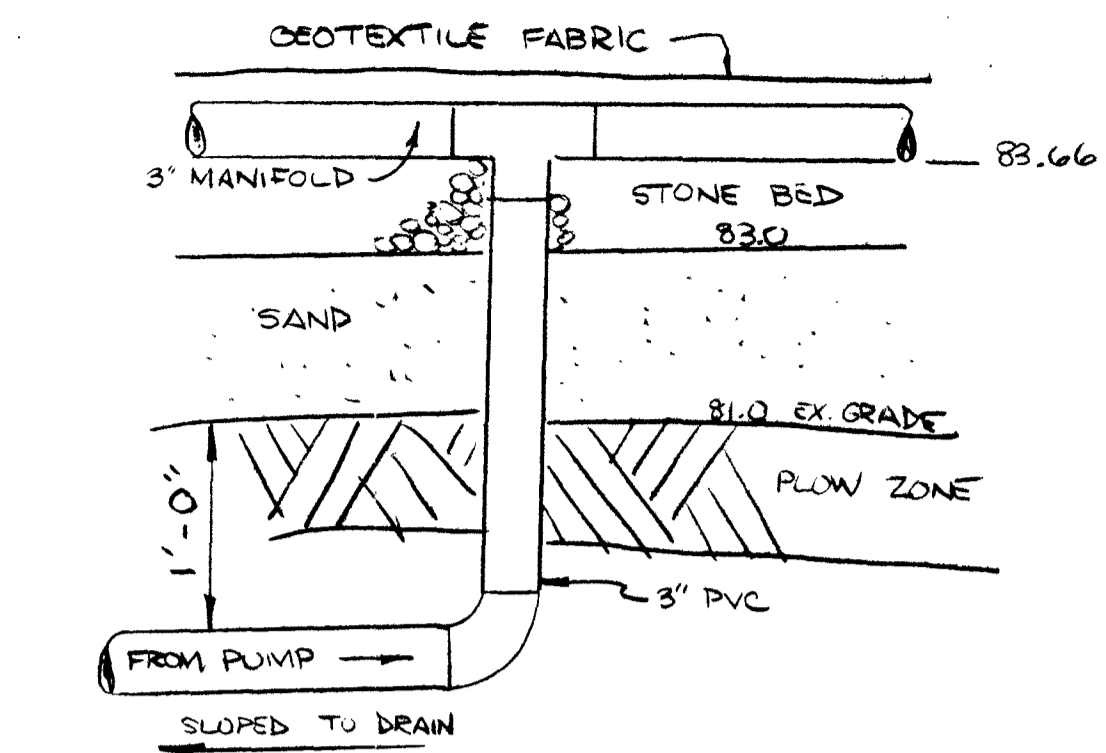
1500 GALLON SEPTIC TANK
NOT TO SCALE



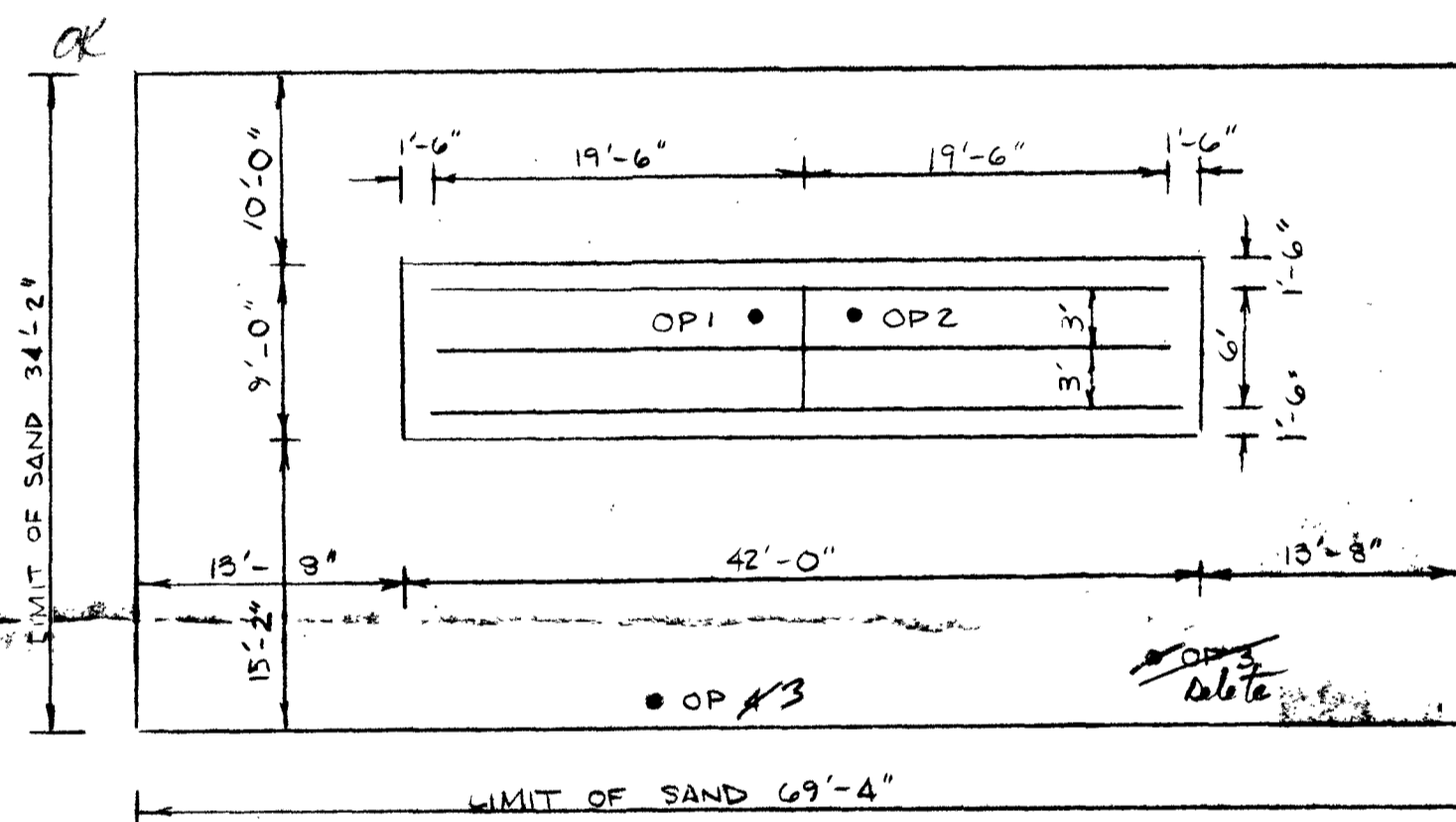
1000 GALLON PUMP CHAMBER ✓ OK
NOT TO SCALE

TANK FLOOR - 8' 4" x 4' 9" = 25 GAL / 1" DEPTH

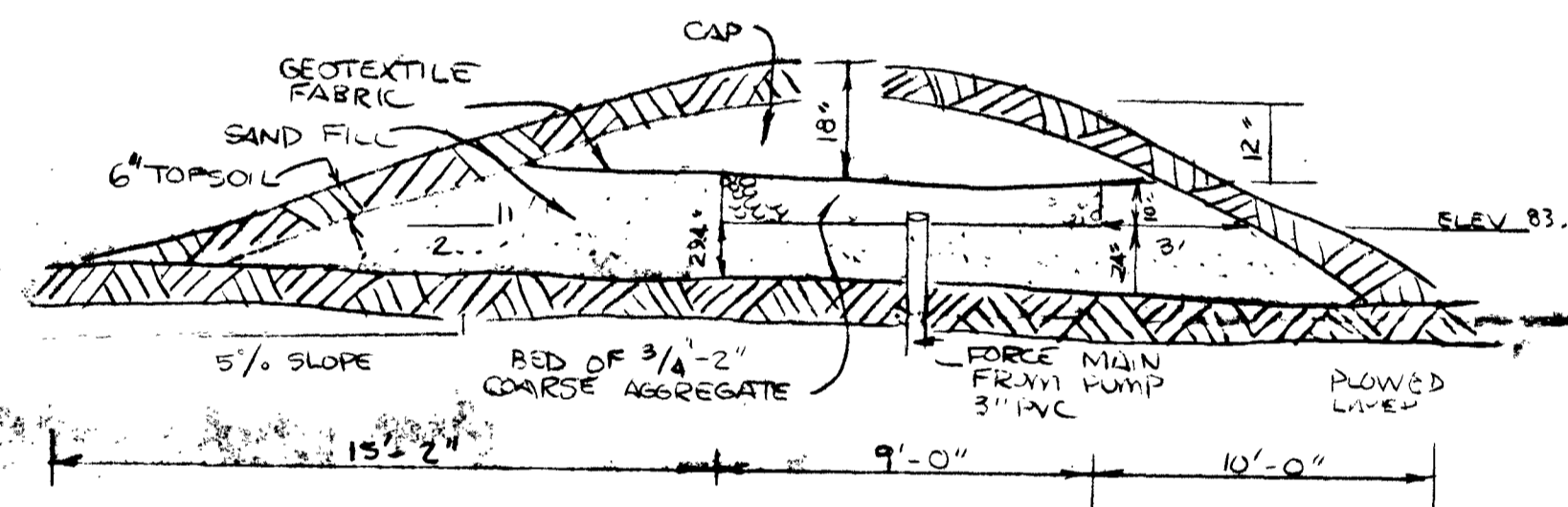
Handwritten notes:
20/15700
1700
1405.64 gal
100
535 OK capacity above high water
down for supply pump system



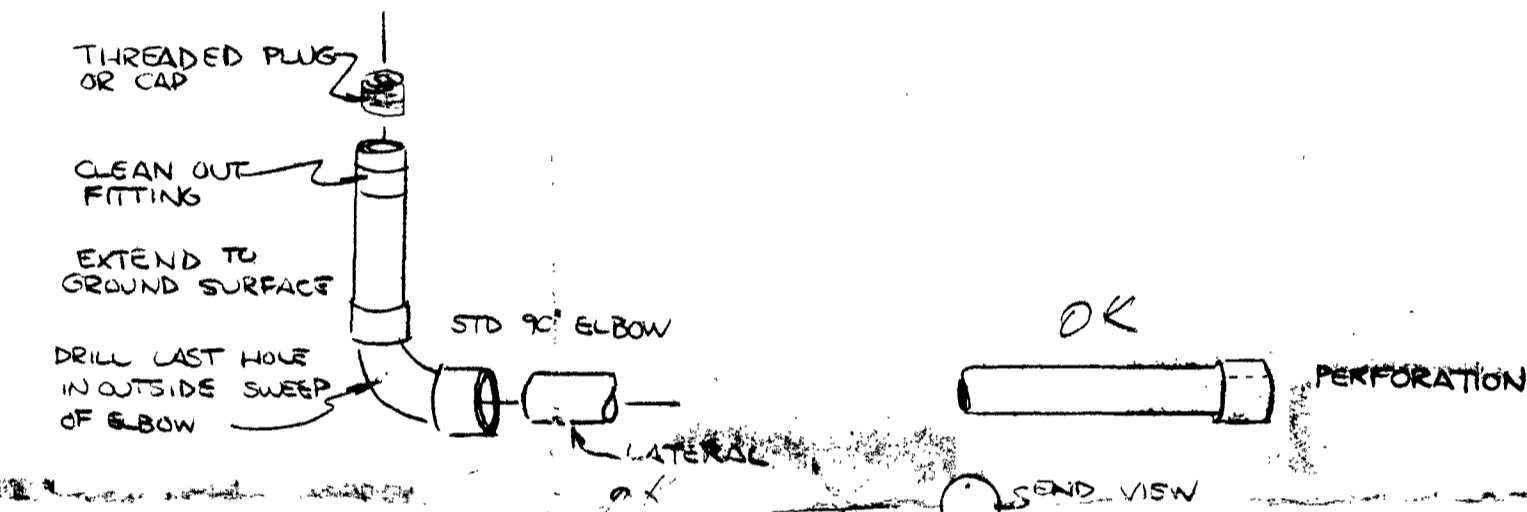
SUPPLY LINE / MANIFOLD DETAIL
NOT TO SCALE



MOUND LAYOUT ✓ OK
SCALE: 1" = 10'



SAND MOUND DESIGN ✓ OK
NOT TO SCALE

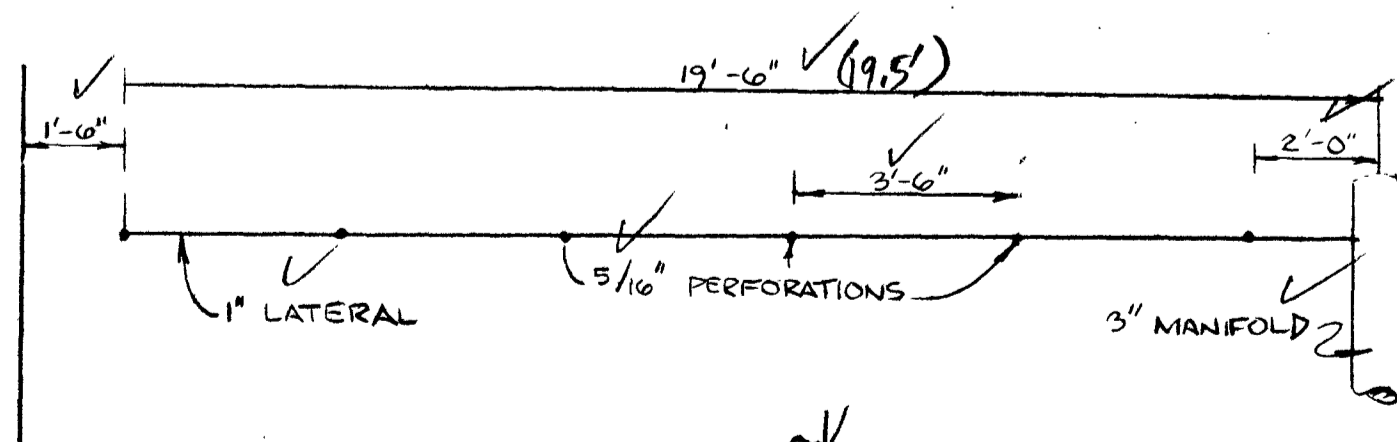


LATERAL END TURNUP
USE ON LATERALS FARTHEST FROM PUMP
N T S

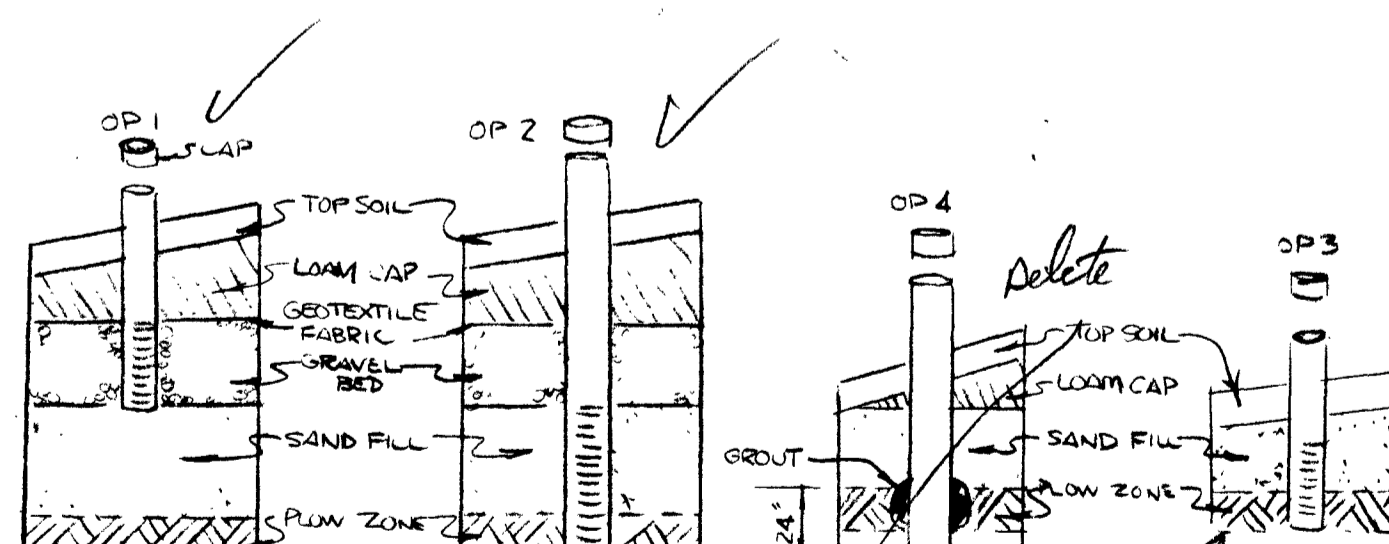
LATERAL END CAP
USE ON LATERALS NOT EQUIPPED WITH TURN UP
N T S

DESIGN CRITERIA

DESIGN FLOW 450 gpd
1500 gal COMPARTMENTED SEPTIC TANK (TOP SEAM)
1000 gal PUMP CHAMBER (TOP SEAM)
92 gal DOSE @ 60 gpm
BED AREA 9' x 42' = 378 sq ft
MOUND AREA 34.16 x 69.33 = 2,368 sq ft
TDH - 15'

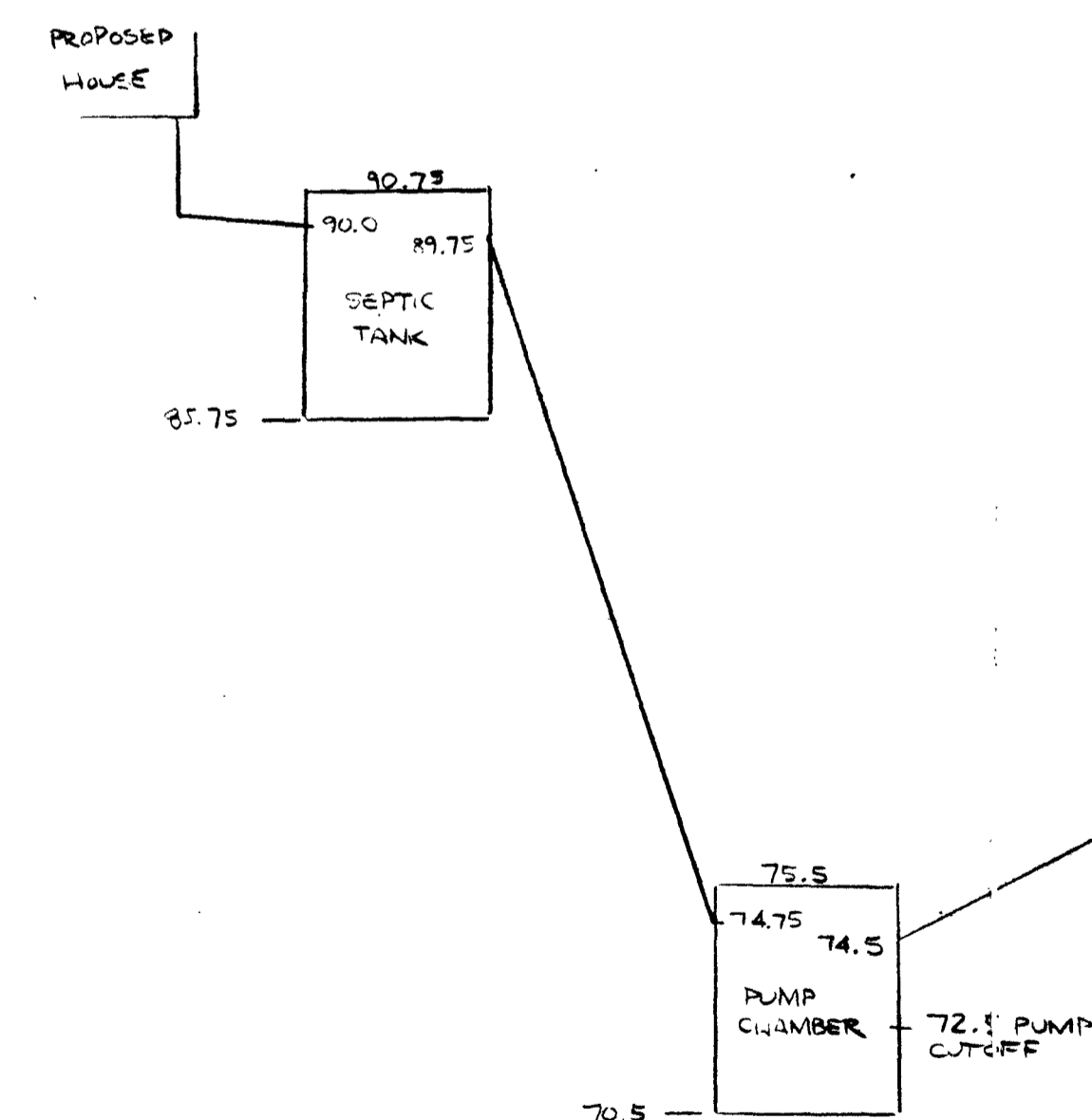


LATERAL DETAIL
TYPICAL
SCALE: 1" = 30'

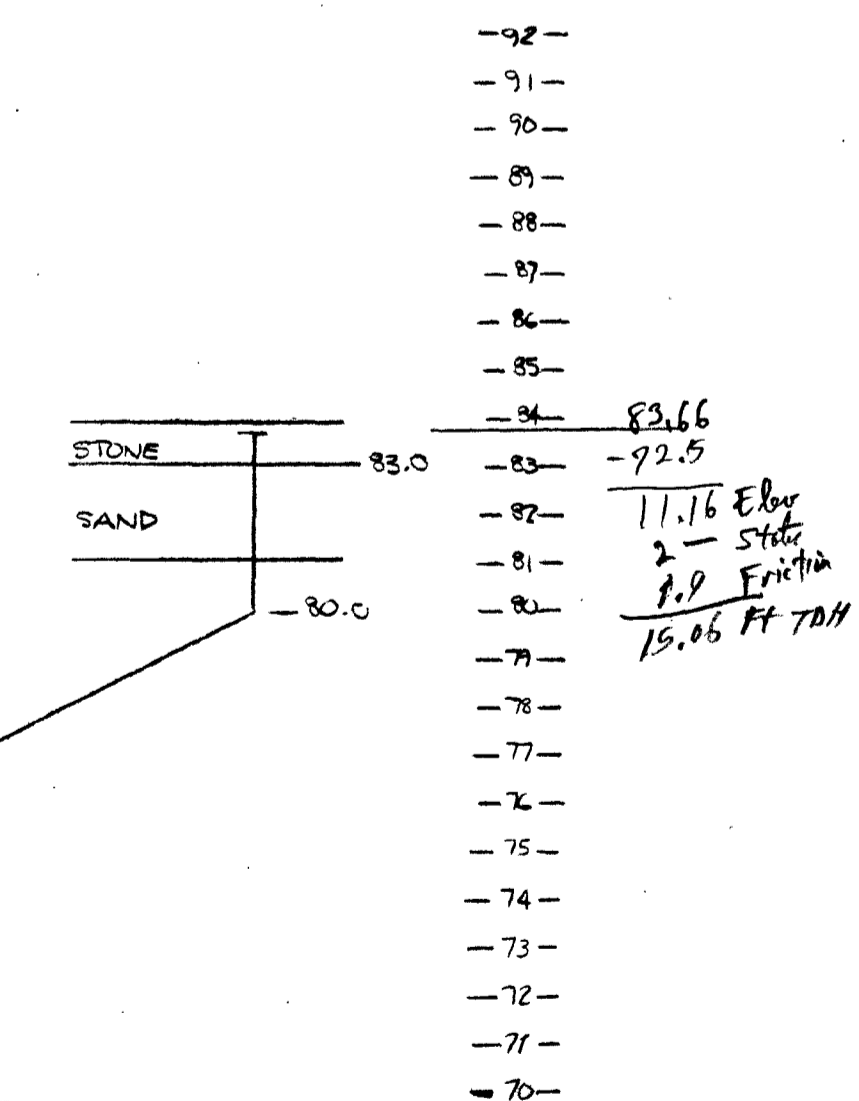


OBSERVATION PIPE DETAILS ✓ OK
NOT TO SCALE

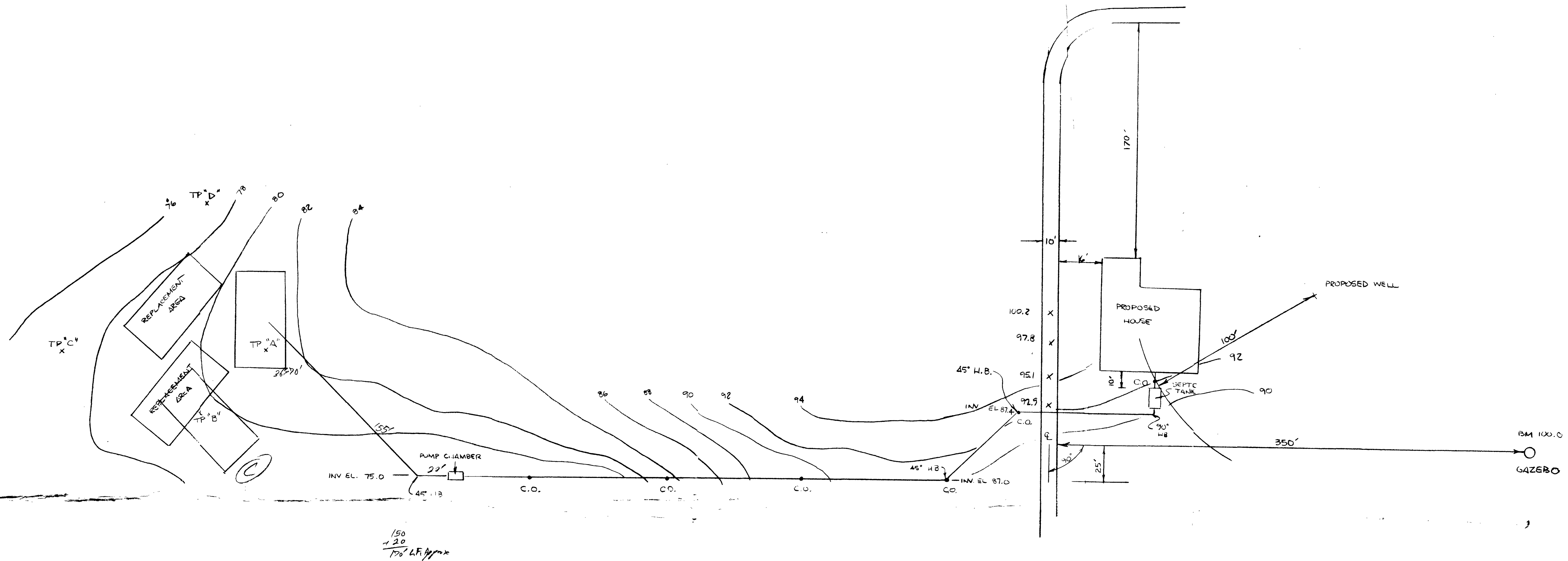
Handwritten notes:
OK, Not 30 Ps
put OP#30 OP#40
in OP#30/40



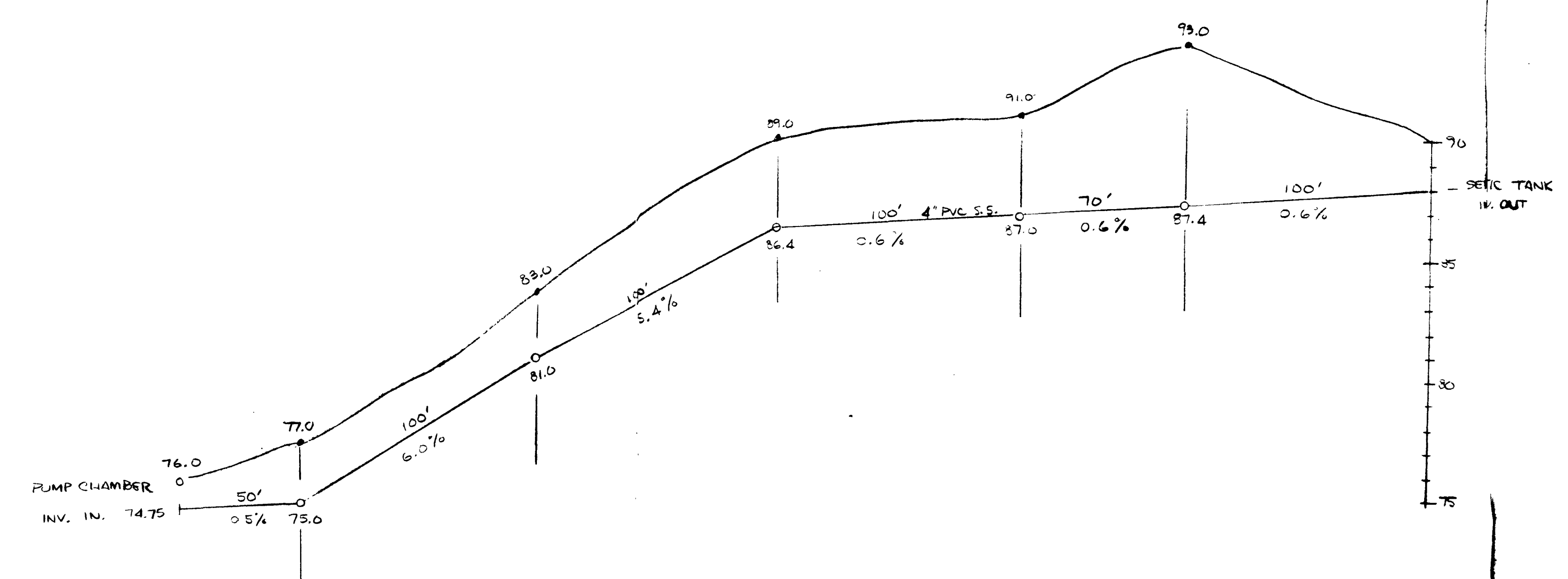
HYDRAULIC PROFILE
SCALE: V - 1/4" = 1'-0"
H - N T S



S/E ENGINEERING, INC.		
WESTMINSTER		MARYLAND 21157
SCALE: AS SHOWN	APPROVED BY: JDC	DRAWN BY: AES
DATE: JUNE 1993	JOHN M. JEFFERSON 19653 PENN SWAMP RD	
MT. AIRY, MD.	HOWARD CO.	
SANDMOUND	DRAWING NO. 2 OF 2	



SITE PLAN/HORIZONTAL ALIGNMENT
SCALE: 1" = 30' actual shown to 40' detail



EFFLUENT SEWER VERTICAL ALIGNMENT
SCALE: V = 1/4" = 1' H = 1" = 30'



S/E ENGINEERING, INC. WESTMINSTER, MARYLAND 21157		
SCALE: AS SHOWN	APPROVED BY: JDC	DRAWN BY: AES
DATE: JUNE 1993	DAWN M. JEFFERSON 18652 PENN SHIP RD AIRY MD. HOWARD CO.	
SANDMOUND	DRAWING NO. 1 OF 2	

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
1414 Washington Road
WESTMINSTER, MARYLAND 21157

(301) 876-7740

LETTER OF TRANSMITTAL

TO HOWARD Co. HEALTH DEPT.
3525-H ELLICOTT MILLS DRIVE
ELLICOTT CITY, MD. 21043

DATE	6/22/95	JOB NO.
ATTENTION	RON PINKLEY	
RE:	JEFFERSON SAND MOUND	

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
1			Revised Print
1			Revised Specification

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS

Revised as per comments dated 6/17/93

4/11/95 Meto K. Williams/Fogler at Site to discuss layout and tentative time to begin Sand Mound Construction. Appalling. Tentative Cost \$100,000. Monday Apr 17th - He'll confirm cost for eval of site planing & will send Sand spec's. Needs Septic Permit Application cost.

Final copy of including revisions per 6/17/95

COPY TO file

SIGNED: Jim Olise

APPLICATION

8/14/92
12/14/92 10:00
5/10/93 new m6A

PERCOLATION TESTING

A 48395
P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

REVIEW OK
PROPOSAL IS TO
SUBDIVIDE 1 ACRE
FARM-LAND LOT.
CONDITION OF
EXISTING FACILITIES
NOT YET ADDRESS 3601
CW

DISTRICT _____
DATE 8/3/92

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER John M. and Pearl H. Jefferson

ADDRESS 18653 Penn Shop Rd. Mt. Airy, Md. PHONE (301) 829-2671

AGENT OR PROSPECTIVE BUYER _____
ADDRESS _____ PHONE _____

PROPERTY LOCATION:
SUBDIVISION _____ LOT NO. Lot-2
ROAD AND DESCRIPTION 1400' off SS Penn Shop Rd. .6 mi SE Rt. 27

TAX MAP 6 PARCEL # 16"A"
SIZE OF LOT Acres TYPE BLDG. Farmland Preservation
Single Family 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. (SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

A48395

Final Test Site - approved for Sand Mound (See Plans)

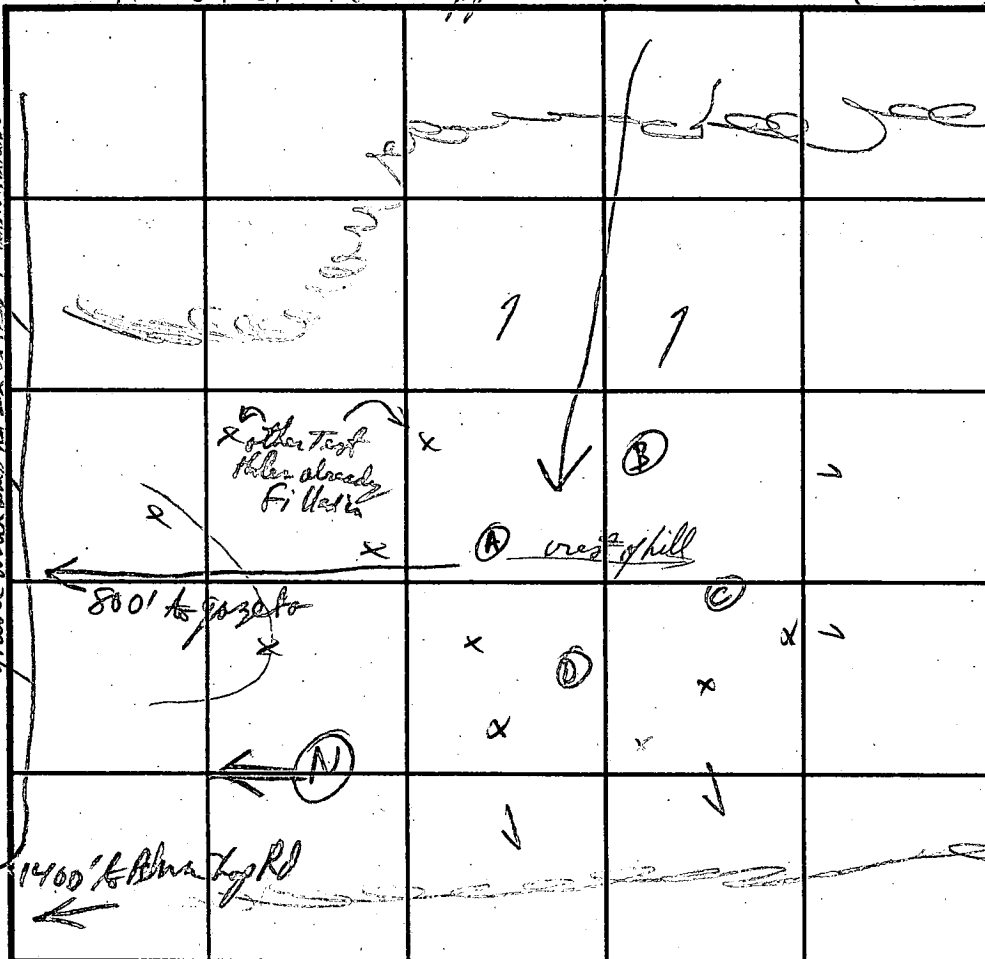
COUNTY #

SOIL PROFILE

0' **A**
 Brn cherty
 AL-SIL
 Brownish
 to reddish
 v. cherty loam
 to cherty CL
 structure
 2-3 Fcbbk's
 in chert frags
 (at 2-4 in)
 30±10% chert
 5 1/2' >50%
 Red (weathered
 Red schist)
 (some weathered
 phosphate
 @ 3-6')

11' **B**
 Brn cherty CL
 to Brn
 loam
 cherty CL
 (some phytolite
 nodules)
 5 1/2' 50% cherty
 loam
 to orange
 pedreg
 70% cherty
 at 5 1/2-9'

11' North C South
 16 1/2' **C**
 Red Brn
 loam
 cherty CL
 blocky, 30%
 chert
 3'
 9' **D**
 Brn cherty
 v. cherty
 loam
 (cherty
 + phytolite)
 50%
 chert
 30±%
 chert
 1 1/2'



SOIL PROFILE

0' **D**
 Red CL-
 cherty h.c.
 1 1/2' Red-Red Brn
 v. cherty
 CL
 4 1/2-5 1/2' Red Brn
 v. cherty loam
 ≥50%
 Rock Frags
 11'

slopes vary to 3%
 at west to 8-12%
 by hole D.

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5-10-93	A	2 1/2'	11:50:40	12:10:48	12:10:48	12:44:35	34 min
		5'	11:32:40	12:11:00	11:23:15	11:23:15	Too Slow
		7 1/2'	11:31:30	11:32:40	2" in 70 sec	11:42:50	Too Fast
		VII'	11:34:48	11:35:50	11:40:22	11:41:40	60-70 sec
	B	7 1/2'	12:32:30	1:53:00	1 1/2" in	80 min	1:58 min
		4 1/2'	12:01:00	1:53:00	1 1/2" in	1:12 min	Too Slow
		VII'	11:58:20	11:59:20	12:01:00		1 1/2 min
		net	12:02:09	12:03:30	12:06:50	12	Marginal
		net	12:07:10	12:09:31	12:14:16		4 1/2 min
	C	2 1/2'	1:11:00	1:28:50	1:28:50	2:22:27	60 min
		4 1/2'	12:18:18	12:58:50	12:58:50	1:27:56	29 min
		8'	12:18:32	12:26:50	12:26:50	12:39:20	12 1/2 min
		V II 1/2'					OK
	D	2 1/2'	1:02:15	1:33:00	1:33:00	2:07:45	34 min
		5'	12:47:30	12:57:20	12:57:20	1:09:20	12 min
		8'	12:47:00	12:47:48	12:48:50		Too Fast
		V III'	12:51:40	12:52:30	12:53:30	12:54:30	1 in 20 sec

REMARKS _____
 TYPE OF SOIL Sat. cherty moist to moist (dry in center depths) Mt Brn Mt High loam
 TESTED BY Riffenberg ALSO PRESENT Mr. Jeffers
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

APPLICATION

8/19/92
12/14/92 10:00
5/10/93 new area

PERCOLATION TESTING

A 48395
P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

REVISION OF PROPOSAL IS TO SUBDIVIDE 1 ACRE FARM-COMM LOT. CONDITION OF EXISTING FACILITIES NOT YET ADDRESSED. CW

DISTRICT _____
DATE 8/3/92

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER John M. and Pearl H. Jefferson

ADDRESS 18653 Penn Shop Rd. Mt. Airy, Md. PHONE (301) 829-2671

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION: _____

SUBDIVISION _____ LOT NO. Serial # 50476 Lot - 2

ROAD AND DESCRIPTION 1400' off 18653 Penn Shop Rd. .6 mi SE Rt. 27

TAX MAP 6 PARCEL # 16"A"

SIZE OF LOT Acres TYPE BLDG. Farmland Preservation Single Family 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. *
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.

SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____

APPLICATION

PERCOLATION TESTING

A _____

P _____

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

DISTRICT _____

DATE _____

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 _____

ADDRESS _____ PHONE _____

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP _____ PARCEL # _____

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 _____

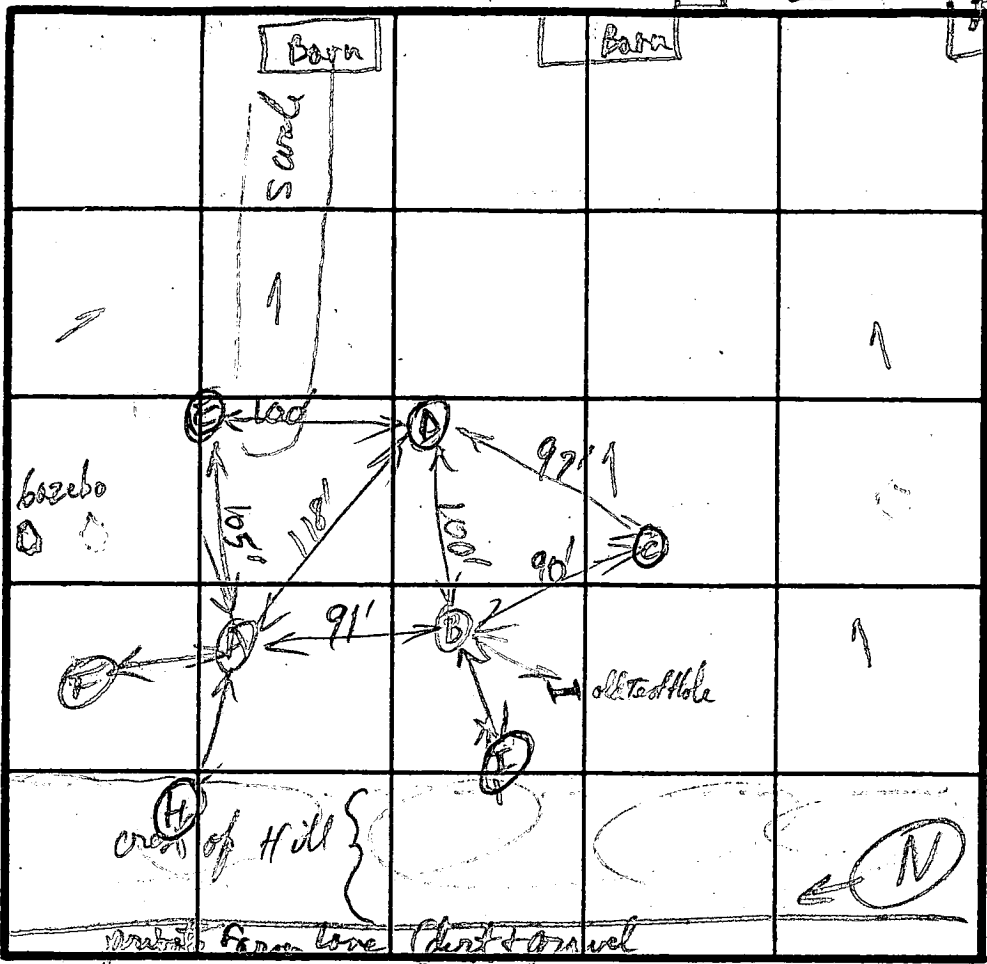
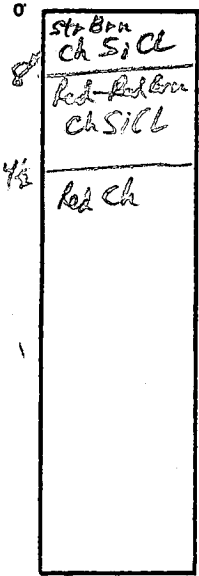
REASONS FOR REJECTION OR HOLDING _____

HD-216

THIS IS NOT A PERMIT

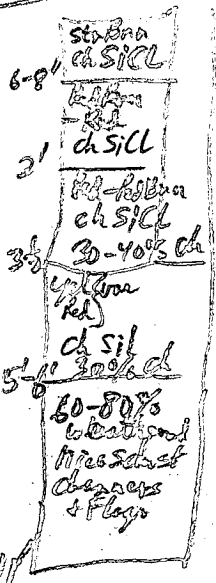
Hole A

SOIL PROFILE



Hole C
Same H+C2 profile upper 3ft as Hole B
70-80% Rock begins @ 3 1/2 ft
Large stones > 80% Regen
10 1/2'

Hole B



Hole D

Similar to Hole B but changes are smaller @ 60-80% Rock level below 5-6'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8/19/92	A	@ 4 1/2'	11:08:21	11:10:50	11:10:50	11:16:00	5min	
		@ 8'	11:08:36	11:16:00	11:16:03	11:24:40	8min	
		@ 11'						
	B	@ 4'	11:20:30	11:28:00	11:28:00	11:46	18min	
		@ 7'	11:18:29	11:19:05			1min	
		@ 11'	Not Test 11:21:42	11:22:30	11:22:30	11:23:40	1min	
		@ 11'	Too Chummy back below 5 1/2' ± 1/2"					
	C	@ 3 1/2'	11:49	11:49?	11:49:35	11:49:59	24sec	
		@ 7'	11:48:00	11:48:13	Big Rock		13sec	
	D	@ 3 1/2'	11:43:00	12:08	12:08	still 1/2" 12:45 73	Too Slow	
		@ 7'	11:43:30	11:47:00	11:47:40	11:47:50	40sec	
	E	5'	Refused because too much shale			Not Tested	Fail	
	L	4'	Refused because too much shale			Not Tested	Fail	

LPD or very shallow travel
Too fast
Fail
Fail
Fail
Fail

REMARKS Too Pricy for any but Ultra Shallow Systems - Need S.M. Test

TYPE OF SOIL MTC2 Moist Airy Chummy Loam

TESTED BY R. Pinkley

ALSO PRESENT

APPLICATION

PERCOLATION TESTING

A _____

P _____

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

DISTRICT _____

DATE _____

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 John M + Pearl H. Jefferson

ADDRESS 18653 Penn Shop Rd, Mt. Airy, MD PHONE 829-2671

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. Lot 2

ROAD AND DESCRIPTION 1400' off S/Pennshop Rd .6mi SE/Rt27

TAX MAP 6 PARCEL # 16 "A"

SIZE OF LOT 19%4 Acres TYPE BLDG Farmstead Preservation
(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 if shallow system or alternative system, more tests needed DATE 8/28/92

REASONS FOR REJECTION OR HOLDING _____

HD-216

THIS IS NOT A PERMIT

Jefferson Property
18653 Ben Shepard
Parade

① Subd. Refusal
Rock @ 4'



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

Reply to: Craig D. Williams
313-2640 or 313-2641

August 20, 1992

Mr. John M. Jefferson
18653 Penn Shop Road
Mt. Airy, Maryland 21771

RE: PERCOLATION TEST RESULTS
APPLICATION # A-48395
Lot 2, Penn Shop Road

Dear Mr. Jefferson:

Percolation testing conducted August 19, 1992 on the above referenced property indicated limited satisfactory soil conditions. Two of the test holes were judged passed; all other test locations failed due to excessively rock content and faster than acceptable percolation rates. Copies of the test results are enclosed.

Landscape position was also a factor which hampered the prospects for approval. The most promising soils were located at the head of a swale which drains toward the current water supply for the existing farmhouse on the property.

It is the preliminary judgement of this office that this area failed the percolation test because a sewage disposal easement of sufficient size could not be established. Should a review of this decision be requested, such review is contingent upon submission of a scaled percolation certification plat showing actual locations and elevations of all excavated test holes and a suitable house and well site. The plat should also include the topography of the area under consideration and the location of the existing well.

This should be submitted within sixty (60) days to allow field verification if necessary. As discussed in the field, it is suggested that other areas on the property be considered for testing. This would seem to carry a greater prospect for approval and could be continued under authorization of this same test application.

Bureau of Environmental Health
3525-H Ellicott Mills Drive Ellicott City, Maryland 21043-4544
Water and Sewerage, Permits 313-2640 Community Environmental Health 313-2642
Technical Services 313-2644 Director 313-2645 TDD 313-2323

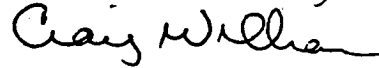
Mr. John M. Jefferson

- 2 -

August 20, 1992

If you should have any questions regarding this matter, please feel free to contact me at the above address or by calling 313-2604.

Very truly yours,



Craig D. Williams, Director
Water and Sewerage Program

CDW:hs

Enclosures



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

Reply to:

August 24, 1992

TO: John M. Jefferson
FROM: Ronald J. Pinkley *RP/cw*
RE: Perc Letter (A-48395)
off Penn Shop Road, Tested 8/19/92

You may recall we had discussed alternative systems, such as low pressure dosing, elevated bed, and sand mounds, as a possible solution should there prove to be insufficient area suitable for conventional sewage disposal systems.

According to the USDA Soil Survey for Howard County, approximately 25% of the 194 plus acres for this property are unsuitable prospects because of seasonally high water tables and/or close association to seasonal or perennial streams. Less than 2% of the parcel is mapped as Glenelg soil (the best candidate for a conventional system). The remaining approximately 73% of the soils mapped for this property are Mt. Airy and Linganore series which are rated severe, primarily due to shallow depth (i.e. less than 7 ft.) of soil to rock.

Simply put, while testing other sites on this property for conventional systems would be the recommended procedure to follow, please bear in mind that there is a fair to good probability that other sites may be no more suitable for conventional septic systems than the one just tested. In such an eventuality, you may wish to consider specialized testing for use of one of these alternative systems in lieu of further conventional site testing.

If you have any questions regarding such systems or additional testing procedures necessary to evaluate a site for such a system, please feel free to call me at 313-2640.

RJP:hs

Bureau of Environmental Health
3525-H Ellicott Mills Drive Ellicott City, Maryland 21043-4544
Water and Sewerage, Permits 313-2640 Community Environmental Health 313-2642
Technical Services 313-2644 Director 313-2645 TDD 313-2323

APPLICATION

5/14/92
12/14/92 10:00
5/10/93 new area

PERCOLATION TESTING

A 48395

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2840

REGULOR OK
PROPOSAL IS TO
SUBDIVIDE 1 ACRE
FARM-LAND LOT.
CONDITION OF
EXISTING FACILITIES
NOT YET ADDRESSED
CW

DISTRICT _____

DATE 8/3/92

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER John M. and Pearl H. Jefferson

ADDRESS 18653 Penn Shop Rd. Mt. Airy, Md. PHONE (301) 829-2671

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. Lot-2

ROAD AND DESCRIPTION 1400' off SS Penn Shop Rd. .6 mi SE Rt. 27

TAX MAP 6 PARCEL # 16"A"

Farmland Preservation

SIZE OF LOT Acres TYPE BLDG. Single Family 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. *

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
1414 Washington Road
WESTMINSTER, MARYLAND 21157

(301) 876-7740

LETTER OF TRANSMITTAL

TO RON PINKLEY
HOWARD Co. HEALTH DEPT
ELLICOTT City, MD

DATE <u>6/3/93</u>	JOB NO.
ATTENTION	
RE: <u>JEFFERSON Sand Mound</u>	

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
<u>2</u>	<u>6/93</u>		<u>Prints -</u>
<u>2</u>	<u>6/93</u>		<u>Specifications</u>
<u>1</u>			<u>Calculations</u>

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS Your prompt review & response will be appreciated

COPY TO Mr. John M. Jefferson
file

SIGNED: Jim Clavin

EMERGENCY/TEMP NO. IF ANY

B 1	1218	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER AD-94-0076 <small>70 fill in this form completely 79</small>
------------	-------------	-------------------------------	---	---

Date Received (APA)
050294

OWNER INFORMATION

15 Last Name: **JEFFERSON** Owner
34 First Name: **JOHN**

36 Street or RFD: **18653 PENN SHOP RD** 55
57 Town: **MT AIRY** 70 State 72 Zip: **21221** 76

B 3 LOCATION OF WELL

8 COUNTY: **HOWARD** 21
23 SUBDIVISION: **JEFFERSON FARM** 42
SECTION: **---** 44 46 LOT: **---** 48 50
52 NEAREST TOWN: **LONG CORNER** 71
MILES FROM TOWN (enter 0 if in town) **1** 73 **M** 76 77 78

DRILLER INFORMATION MSD/MGD/MWD

Driller's Name: **Ralph Mayne** 77 License No. 80: **116**

Firm Name: **Ralph Mayne Well Drilling**

Address: **9120 Brown Church Rd Mt Airy**

Signature: *Ralph Mayne* Date: **4/25/94**

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

11 NEAR WHAT ROAD: **penn Shop Rd** 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX):
NORTH WEST EAST SOUTH

34 DISTANCE FROM ROAD: **3000** 37
ENTER FT OR MI: **FT** 38 39

TAX MAP: _____ BLK: _____ PARCEL: _____

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) **5** 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500** 14 20

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: **Howard** COUNTY NO.: **A 48395**

STATE SIGNATURE: _____ DATE ISSUED: **05/10/94** INSERT S: 41
CO SIGNATURE: *Small Willey* EXP. DATE: **5/10/95**

NORTH GRID: **547000** 50 55 EAST GRID: **0752000** 57 63

APPROXIMATE DEPTH OF WELL **150** 24 28 FEET

APPROXIMATE DIAMETER OF WELL **6"** NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

CABLE REVerse-ROTary DRive-POINT

other: _____

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-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

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 (OEP USE ONLY)

APPROX. PERMIT NUMBER 54: **G A P** 63

FORCE **RP** WRITE INITIALS IN BOX 67 68 PERMIT No. **AD-94-0076** 70 71 72 73 74 75 76 77 78 79

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1. well

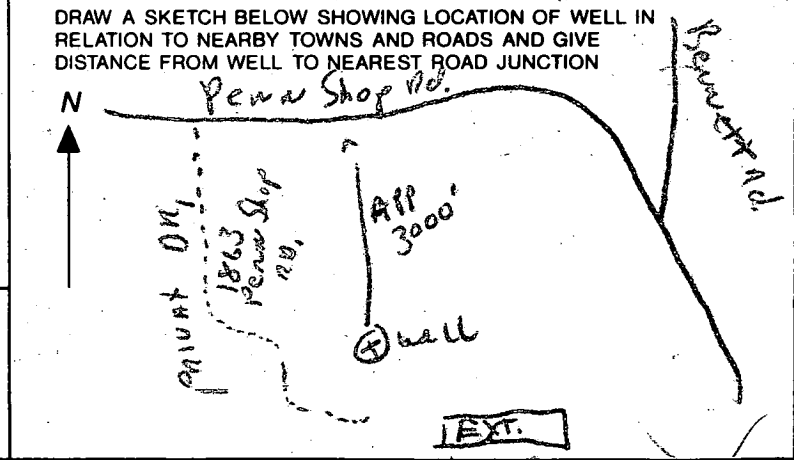
2.

3.

WRITE THE BOX NUMBER FROM THE MAP HERE

7502 (E) **5407** (N)

000 000



12-28

No Field Check

Site OK per Sand Hand Plans
anywhere around house site (160' from Septic tank)
is OK App 5/10/94

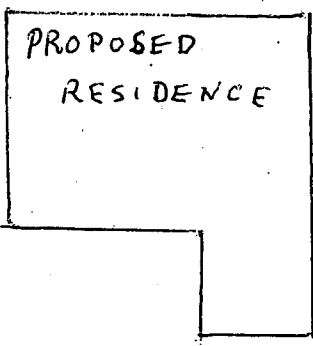
Dry Hole on First Try, Ralph Payne given
OK to drill another well site anywhere in this
area since there will be 500' ft to nearest SOA
App 5/26/94

TO PENN SHOP RD



PROPOSED WELL
OK

100'



FARMLANE

2017-5-12

480' TO SAND MOUND

PROPOSED RESIDENCE, WELL AND
SEPTIC SYSTEM AT:

JEFFERSON FARM (194 ac.)

18653 PENN SHOP RD

MT. AIRY MD, 21771

John M. Jefferson
18653 Penn Shop Rd.
Mt. Airy, MD 21771

SPECIFICATIONS
SAND MOUND

1. Design Criteria

3 Bedroom House
Design Flow - 450 GPD
1 - 1500 Gal. Compartmented Septic Tank (Top-Seam)
1 - 1,000 Gal. Pump Chamber (Top-Seam)
92 Gal. Dose @ 60 GPM
Bed Area - 9' x 42' = 378 Sq. Ft.
OK Mound Area - 34'-2" x 69'-4" = 2368 Sq. Ft.
TDH - 15'

2. Sewage Treatment

One 1500 gallon compartmented top-seam septic tank is to be installed in series with a 1,000 gallon top-seam pump chamber. The pump chamber is to provide 20" depth for pump elevation and submergence, 3-3/4" for the pump cycle dose, and 6" for the high water alarm. The additional capacity of the pump chamber will provide one (1) day's flow of emergency storage above the high water alarm.

The above capacities, measurements, and tank elevations shown on the drawing are based upon measurements of top-seam septic tanks and pump chambers as manufactured by Mayer Bros., Inc., Elkridge, MD (301) 795-1434.

3. A quick disconnect union and gate valve are to be provided on the pump discharge line as shown on the drawing.

4. Pressure piping from the pump chamber and the manifold are to be 3" Schedule 40 PVC.

5. Distribution laterals are to be 1" Schedule 40 PVC.

6. The pressure supply line, from the pumping station to the absorption bed, is to be installed with a continuous slope back to the pumping station to assure complete drainage of the effluent from the supply line following each pump cycle.

Specifications - Sand Mound
John M. Jefferson
18653 Penn Shop Rd.
Mt. Airy, MD

-2-

7. A submersible pump to remove 60 gpm against 15' TDH is to be provided. The pump should be a Goulds Model WE 0311 L, 1/3 hp, 115 volts, single phase, or equal. The pump control box is to be located above ground in a weatherproof enclosure.

8. The high water level sounding alarm is to be on a separate electrical circuit. The alarm is to be located inside the house.

9. Sand is to have an effective size between 0.25 and 0.50 mm with a uniformity coefficient no greater than 3.5. A list of suppliers of approved sand is available upon request from the Division of Residential Sanitation, MD Department of the Environment.

10. Gravel for the bed is to be 3/4" to 2" in diameter, washed and free of fines. Gravel is to be inspected and approved prior to placement. Following covering of the laterals with gravel, a layer of geotextile fabric is to be applied. Crushed limestone is not an acceptable substitute for gravel.

11. A test of the pumping system and distribution piping is required prior to covering the system.

12. Each 1" lateral is to be 19'-6" long with six (6) perforations 5/16 inch in diameter spaced 42" apart. A turn-up, as shown on the drawing, is to be provided on the extreme end of the lateral farthest from the pump. The other laterals are to terminate with an end cap, perforated as shown on the drawing.

13. The attached construction procedures as prepared by the Individual Septics & Wells Program, Department of the Environment, are included as a part of these specifications.

John M. Jefferson
18653 Penn Shop Rd.
Mt. Airy, MD 21771

SPECIFICATIONS
SAND MOUND

1. Design Criteria

- ✓ 3 Bedroom House
- ✓ Design Flow - 450 GPD
- ✓ 1 - 1500 Gal. Compartmented Septic Tank (Top-Seam)
- ✓ 1 - 1,000 Gal. Pump Chamber (Top-Seam)
- 92 Gal. Dose @ 60 GPM @ 15 FT TDH
- OK Bed Area - 9' x 42' = 378 Sq. Ft.
- Mound Area - 34'-2" x 69'-4" = 2368 Sq. Ft.
- TDH - 15'

Should be 34' 2" = 1675.6

2. Sewage Treatment

One 1500 gallon compartmented top-seam septic tank is to be installed in series with a 1,000 gallon top-seam pump chamber. The pump chamber is to provide 20" depth for pump elevation and submergence, 3-3/4" for the pump cycle dose, and 6" for the high water alarm. The additional capacity of the pump chamber will provide one (1) day's flow of emergency storage above the high water alarm. *done enough*

The above capacities, measurements, and tank elevations shown on the drawing are based upon measurements of top-seam septic tanks and pump chambers as manufactured by Mayer Bros., Inc., Elkridge, MD (301) 795-1434.

3. A quick disconnect union and gate valve are to be provided on the pump discharge line as shown on the drawing.

4. Pressure piping from the pump chamber and the manifold are to be 3" Schedule 40 PVC.

5. Distribution laterals are to be 1" Schedule 40 PVC.

6. The pressure supply line, from the pumping station to the absorption bed, is to be installed with a continuous slope back to the pumping station to assure complete drainage of the effluent from the supply line following each pump cycle.

Specifications - Sand Mound
John M. Jefferson
18653 Penn Shop Rd.
Mt. Airy, MD

-2-

7. A submersible pump to remove 60 gpm against 15' TDH is to be provided. The pump should be a Goulds Model WE 0311 L, 1/3 hp, 115 volts, single phase, or equal. The pump control box is to be located above ground in a weatherproof enclosure. *check for case!*

8. The high water level sounding alarm is to be on a separate electrical circuit. The alarm is to be located inside the house.

9. Sand is to have an effective size between 0.25 and 0.50 mm with a uniformity coefficient no greater than 3.5. A list of suppliers of approved sand is available upon request from the Division of Residential Sanitation, MD Department of the Environment.

10. Gravel for the bed is to be 3/4" to 2" in diameter, washed and free of fines. Gravel is to be inspected and approved prior to placement. Following covering of the laterals with gravel, a layer of geotextile fabric is to be applied. Crushed limestone is not an acceptable substitute for gravel.

11. A test of the pumping system and distribution piping is required prior to covering the system.

12. Each 1" lateral is to be 19'-6" long with six (6) perforations 5/16 inch in diameter spaced 42" apart. A turn-up, as shown on the drawing, is to be provided on the extreme end of the lateral farthest from the pump. The other laterals are to terminate with an end cap, perforated as shown on the drawing.

13. The attached construction procedures as prepared by the Individual Septics & Wells Program, Department of the Environment, are included as a part of these specifications.

S/E Engineering, Inc.

5/25/93

SECTION FIVE

CONSTRUCTION PROCEDURES

5.1. GENERAL

Proper construction is extremely important if the sand mound is to function as designed. Installation of a sand mound system is prohibited when soils are frozen. Construction of the mound should not occur if the soil is too wet. Compaction and puddling of the soil in the location of the mound and downslope should be avoided. Soil is too wet for construction of the mound if a sample, taken anywhere within the upper eight inches, when rolled between the hands forms a wire. If the sample crumbles, the soil is dry enough for construction to proceed.

5.2. EQUIPMENT

The following special equipment is recommended:

1. A small track-type tractor with blade for placing and spreading the sand fill.
2. A cordless drill for drilling holes in the pipe on-site.
3. A moldboard or chisel plow for plowing the soil within the perimeter of the mound. A rototiller may be used on structureless soils with USDA sand textures.
4. A rod and level for determining bed elevations, slope on pipes, outlet elevation of septic tank, slope of site, etc.

5.3. MATERIALS

The following specifications are required:

1. Sand fill material must be approved by the local Approving Authority prior to hauling to the site. Submit a sample to the local Authority for analyses at least three weeks in advance of construction or select a sand fill from the list of potential sand suppliers. If a sample is submitted for analyses a fee will be charged. Sand fill shall have an effective size between 0.25 mm and 0.5 mm with a uniformity coefficient of 3.5 or less. A copy of the receipt from the sand supplier showing the company name, address, phone number, date and product name will be required.
2. Aggregate shall be clean aggregate free of fines and between 3/4 to 2 inches in diameter.
3. Geotextile fabric shall be of a type approved by the Approving Authority.
4. Cap material shall be soil relatively free of coarse fragments and preferably a clay loam or silt loam texture.

5.4. TANK INSTALLATION AND SITE PREPARATION

- 5.4.1 Locate and rope-off the entire sewage disposal area to prevent damage to the area during other construction activity on the site. Vehicular traffic over the disposal area should be prohibited to avoid soil compaction.
- 5.4.2 Install septic tank(s) and pumping chamber(s) and pump as shown on the drawings. Call for inspection.
- 5.4.3 Stake out the initial and recovery mound perimeters in their proper orientation as shown in the drawings. Reference stakes offset from the mound corner stakes are recommended. Locate the upslope edge of the absorption bed within the mound and determine the ground elevation at the highest location. Reference this elevation to a benchmark for future use. This is necessary to determine the bottom elevation of the absorption bed.
- 5.4.4 Excess vegetation should be cut and removed. Trees should be cut at ground level and stumps left in place.
- 5.4.5 Determine the location where the force main from the pumping chamber will connect to the distribution network manifold within the mound.
- 5.4.6 Install the force main from the pumping chamber to the proper location within the mound. Pipe should be laid with uniform slope back to the chamber so that it drains after dosing. Cut and stub off pipe one foot below existing grade within the proposed perimeter of the initial mound. Backfill trench and compact to prevent seepage along the trench.
- 5.4.7 Plow the soil within the perimeter of the mound to a depth of about eight inches, if the soil is not too wet. Moldboard or chisel plows may be used. Plowing should be done along the contour, throwing soil upslope. Use a two bottom or larger Moldboard plow. In wooded areas with stumps, roughening the surface to a depth of four to six inches with backhoe teeth may be satisfactory. However, all work should be done from the upslope or sides of the mound if at all possible. Rototilling may be used on soils with USDA textures of sand. After plowing, all foot and vehicular traffic shall be kept off the plowed area.

5.5. FILL PLACEMENT

- 5.5.1 Relocate and extend the force main several feet above the ground surface.
- 5.5.2 Place the approved sand fill material on the upslope edge(s) of the plowed area. Keep delivery trucks off the plowed area. Minimize traffic on the downslope side. Fill should be placed and spread immediately after plowing. Move the fill

material into place using a small track-type tractor with a blade. Work from the end and upslope side. Always keep a minimum of six inches of material beneath the tracks of the tractor to minimize compaction of the natural soil. The fill material should be worked in this manner until the height of the fill reaches the elevation of the top of the absorption bed.

5.5.3 With the blade of the tractor, form the absorption bed. Hand level the bottom of the bed and check it for proper elevation. The bed should be level for proper functioning of the mound. Call for inspection.

5.5.4 Shape the sides of the sand fill to design slope (ie., 3:1 or flatter).

5.6. **BED AND DISTRIBUTION NETWORK**

5.6.1 Carefully place the coarse aggregate in the bed. Do not create ruts in the bottom of the bed. Level the aggregate to a minimum depth of six inches.

5.6.2 The distribution network is assembled in place setting the manifold to ensure draining the laterals between doses. The laterals should be laid level with the holes directed downward. Call for inspection. Test the pumping chamber and distribution network with clean water.

5.6.3 Place additional aggregate to a depth of at least two inches over the crown of the pipe.

5.6.4 Place the approved geotextile fabric over the aggregate bed. The fabric may extend beyond the bed over the sand fill.

5.7. **COVER MATERIAL**

5.7.1 Place a finer textured soil material such as sandy clay loam, clay loam, or silt loam on top of the fabric over the bed. The minimum depth of this cap shall be six inches at the outer edges of the bed and 12 inches along the center.

5.7.2 Place a minimum of six inches of good quality topsoil over the entire mound surface including the sideslopes. Call for final inspection.

5.8. **VEGETATION**

5.8.1 Fertilize, lime, seed and mulch the entire surface of the mound. Grass mixtures adapted to the area should be used.

5.8.2 Consult the county extension agent or Soil Conservation Service for recommendations.

Jefferson Property
 18853 Penn Shop Rd
 Mt Airy, MD

TABLE 3.1

EQUATIONS FOR CALCULATING SAND MOUND DIMENSIONS

$$\text{Absorption bed ft.}^2 (A \times B) = \frac{\text{Design flow } 450 \text{ gpd}}{1.2 \text{ gpd/ft.}^2} = \underline{375} \text{ ft.}^2 \quad 5\% \text{ Slope}$$

$$\text{Bed length (B)} = \underline{42} \text{ ft. (21 ft. to 101 ft. dependent on site)}$$

$$\text{Bed width (A)} = \frac{\text{Bed } 375 \text{ ft.}^2}{\text{B } 42 \text{ ft.}} = \underline{9} \text{ ft. (15 ft. or less)}$$

$$\text{Upslope sand fill depth (D)} = 48 \text{ in.} - Z \text{ in.} = \underline{24} \text{ in. (12 in. min.)}$$

$$\text{Downslope sand fill depth (E)} = [12 A \times \% \text{ slope}] + D \text{ in.} = \underline{29.4} \text{ in.}$$

$$\text{Cap + topsoil at bed center (H)} = \underline{18} \text{ in.}$$

$$\text{Cap + topsoil at bed edge (G)} = \underline{12} \text{ in.}$$

$$\text{Total Bed Depth (F)} = \underline{10} \text{ in.}$$

$$\text{Sideslope setback (K)} = \frac{[(D + E) + 28 \text{ in.}] \times 3}{2} = \underline{154.1} \text{ in. (13.675')}$$

$$\text{Upslope setback (J)} = (22 \text{ in.} + D) \times 3 \times \text{upslope corr. factor} = \underline{120.75} \text{ in. (10.0625')}$$

$$\text{Downslope setback (I)} = (22 \text{ in.} + E) \times 3 \times \text{downslope corr. factor} = \underline{181.956} \text{ in. (15.163')}$$

$$\text{Total Width of Mound (W)} = 12A + J + I = \underline{410.706} \text{ in. (34.226')} \underline{034'3" OK}$$

$$\text{Total Length of Mound (L)} = 12B + K + K = \underline{69.35 \text{ FT.}} \underline{(69'4" OK)}$$

Grand Area 2373.64

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
 1414 Washington Road
 WESTMINSTER, MARYLAND 21157
 (410) 876-7740

JOB Jefferson - Sand mound -

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____

450 gpd - 375 Sq. Ft. min. 5% slope OK

Bed $9 \times 42 = 378$ Sq. Ft. BED

24" sand depth - up side - $9 \times 0.05 = 108 \times 0.05 = 5.4$ ✓
 29.4" " " down slope

Side slope set back - $\frac{24 + 29.4}{2} \times 3 = 164" = 13'-8"$ ✓

Upslope = $24 + 22 \times 3 \times 0.975 = 120" = 10'$ ✓

Downslope = $29.4 + 22 \times 3 \times 1.18 = 182" = 15'-2"$ ✓

Mound Area = $9' + 10' + 15'-2" = 34'-2"$ wide OK
 $42 + (2 \times 13'-8") = 69'-4"$ OK
 $34.16 \times 69.33 = 2368$ Sq. Ft. OK
 2374 sqft.

Dose = $450 / 6 = 75$ gal

Cup - 3" line - 170' = $1.7 \times 38.4 = 65.3$ gal ✓
 plus 5 x 117' - 1" laterals = $4.5 \times 5 \times 1.17 = 26.3$ ✓
 91.6 (92 gal) OK
 @ 25 gal / 1" in 1000 gal pump chamber - 91.74
 use 3 3/4" / dose OK

Pumping rate = $36 \times 1.63 = 58.7$ (59 gpm) OK

TDH - Elevation Difference $83.66 - 72.50 = 11.16$ ✓

Disal head 2.00 ✓

Friction loss = $170 + 3' \text{ manifold} + 46 - \text{w/min} - \text{valve} - \text{T}$
 $40 \quad 3 \quad 2 \quad 15$
 $233' - 3" @ 59 \text{ gpm} - (60)$
 $f = 0.81 \times 2.33 = 1.9$ ✓

TDH = 15' OK
 15.06 ✓

SM, Plan Review for Jefferson, John @ 1853 Pennsylvania Rd
6/17/83

Site Plan 5% slope

Scale SM = 52' x 29'

Spec $(24\frac{1}{2}" \times 69'4") = 2364 \text{ sq ft}$
(24, 162) 1675.5

ST Inflow 87.0
PC Inflow 74.75
Elev Drop = 12.25'

vent design

Total length	Supply line	100'	70'	100'	100'	100'	50'
	gravelly	100'	70'	100'	100'	100'	50'
		.6%	.6%	.6%	5.4%	6.0%	0.5%
520' L.F. gravelly line ST → P.C.							

Elev pump 83.66
72.5 pump off
11.16 Elev of
2.0 5' filter head
13.16 Friction head

ST 25 gal/vent

using 3" o.d. 40 F.M. + manhole

Manhole layout - ST Dia 34 1/2" x 69 1/4"

Bed 9' wide x 42' long = 378 sq ft OK
450 / 1.2 = 375 sq ft

upslope depth sand 24"
downslope " " 29.4"

180 LF of 3" line = 1.7 x 38.4 = 65.28 gal → 65.28 gal
plus 5 x 117' = 26.46

17.25 x 25.9" = 43.25 gal storage gravelly
+ 150-250 gal Friction head

19.6' x .6 = 11.76 LF of 1" lateral = 1.17 x 5 x 4.5 = 26.46
(5.92)

91.74 = 92 gal OK
92 gal / vent = 3.68 or 3 3/4" dose OK

Friction loss 170 LF @ 60 gpm for 3" PVC = 0.81 x 1.7 = 1.377 ≈ 1.4' of head friction
2.0 5' filter
11.16 Elev
14.56 Ft of head

perf spacing

19.6' / lateral ÷ 3.5' perf spacing = 5.6 or 5 in. per

so size on 15' of head OK

19.6 x 2 = 39' or 5 x 3.5 = 17.5 F + 2.0' 1st Perf. to Manhole = 19.5' lateral
1 1/2' between lateral and edge of bed.

Jefferson top SM. - ~~4~~ suggested changes - approval otherwise

① change 24 - 34.2 ft on Round Dim Spec Sheet

② ~~may~~ delete detail for OP #4 - place OP #3 @ OP #4 location
on Round Layout Detail

③ Site Plan copy measures closer to 1:80 scale

④ Reorient lesser Round near ~~TPB~~ TPB
so that it's long axis is perpendicular to the one shown
this to better align that SM. with prevailing contour.



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

June 17, 1993

Reply to:

Mr. James Clise
c/o Sanitary/Environmental Engineer, Inc.
1414 Washington Road
Westminster, Maryland - 21157

RE: Sand Mound Design
John M. Jefferson Property
18653 Penn Shop Road
Mt. Airy, Maryland 21771

Dear Mr. Clise:

This office has reviewed the design plans and specifications for a sand mound sewage disposal system to service the above referenced property. I am pleased to inform you that these plans are approved as submitted.

However, there are several minor changes suggested for the final copy of these plans as noted below:

1. On the specification sheet, page 1, order design criteria - correct mound area to read (34' - 2" x 69' - 4").
2. You may delete the detail for OP#4 as there is no perched water table at this site. If the deletion is used, place OP#3 at OP#4's site on the mound layout detail.
3. Reorient the repair mound (nearest TPB) so that it's long axis will be perpendicular to the one shown, for a suggested better orientation to the prevailing contours. (Copy of proposed change enclosed.)

If you have any question, please call me at 313-2640, Monday through Friday, 8:30 a.m. - 5:00 p.m.

Very truly yours,

Ronald J. Pinkley, R. S.
Water and Sewerage Program

*Above requested changes
were in final plan
received 6/24/93 RJP*

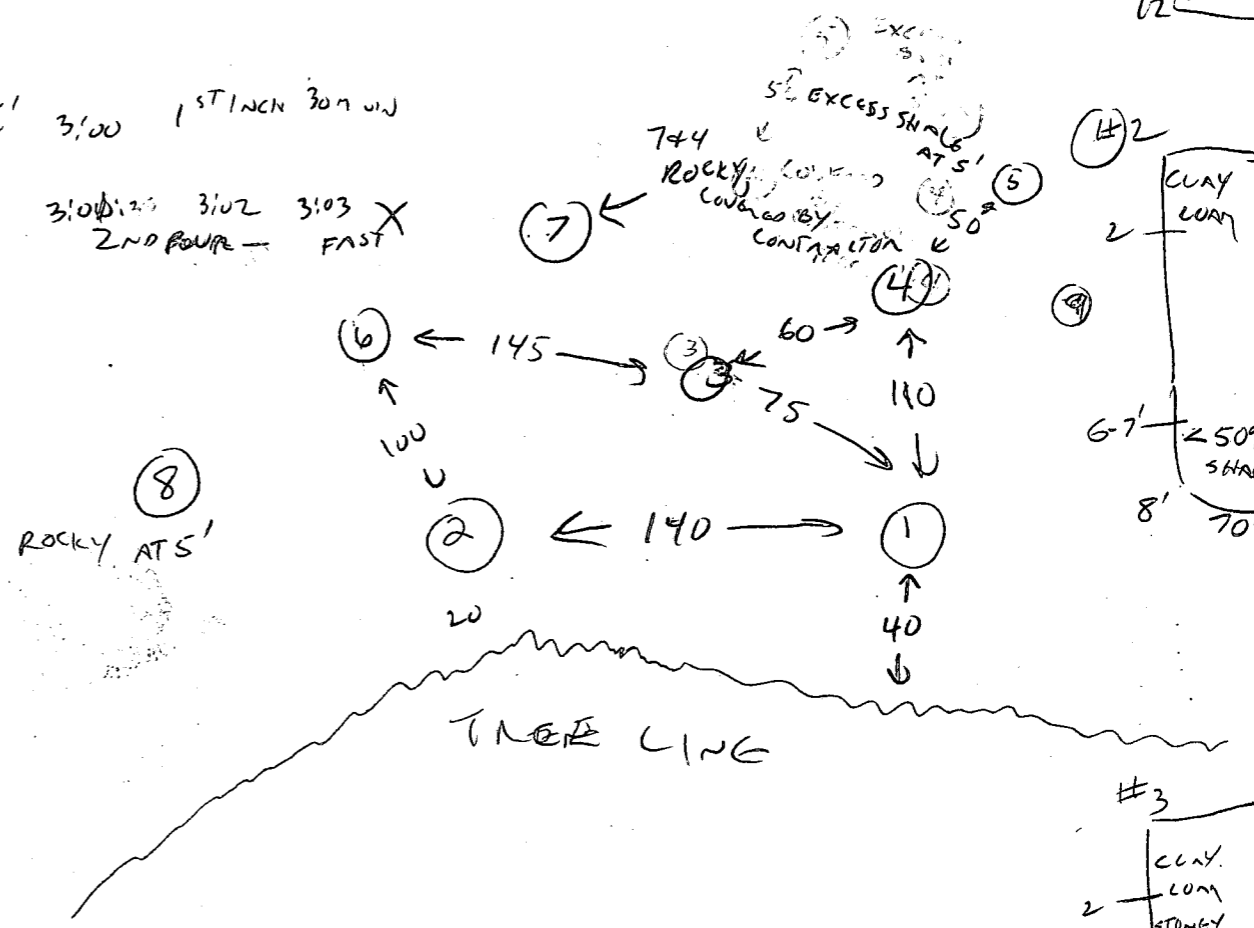
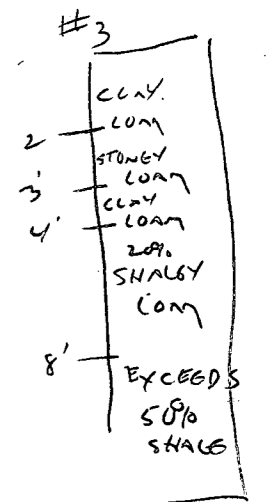
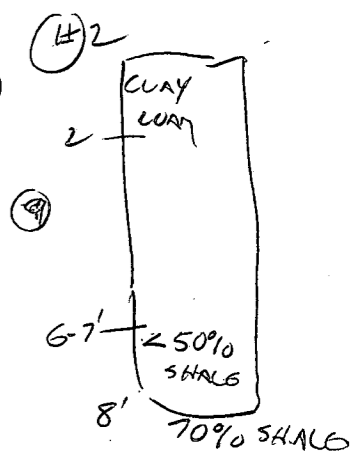
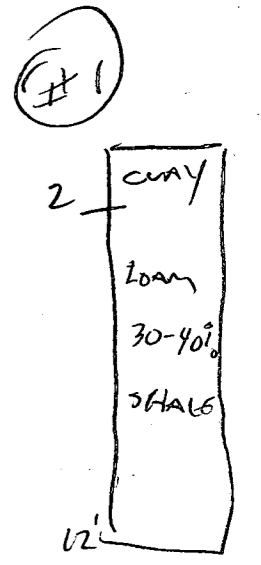
RJP:jr

Bureau of Environmental Health
3525-H Ellicott Mills Drive Ellicott City, Maryland 21043-4544
Water and Sewerage, Permits 313-2640 Community Environmental Health 313-2642
Technical Services 313-2644 Director 313-2645 TDD 313-2323

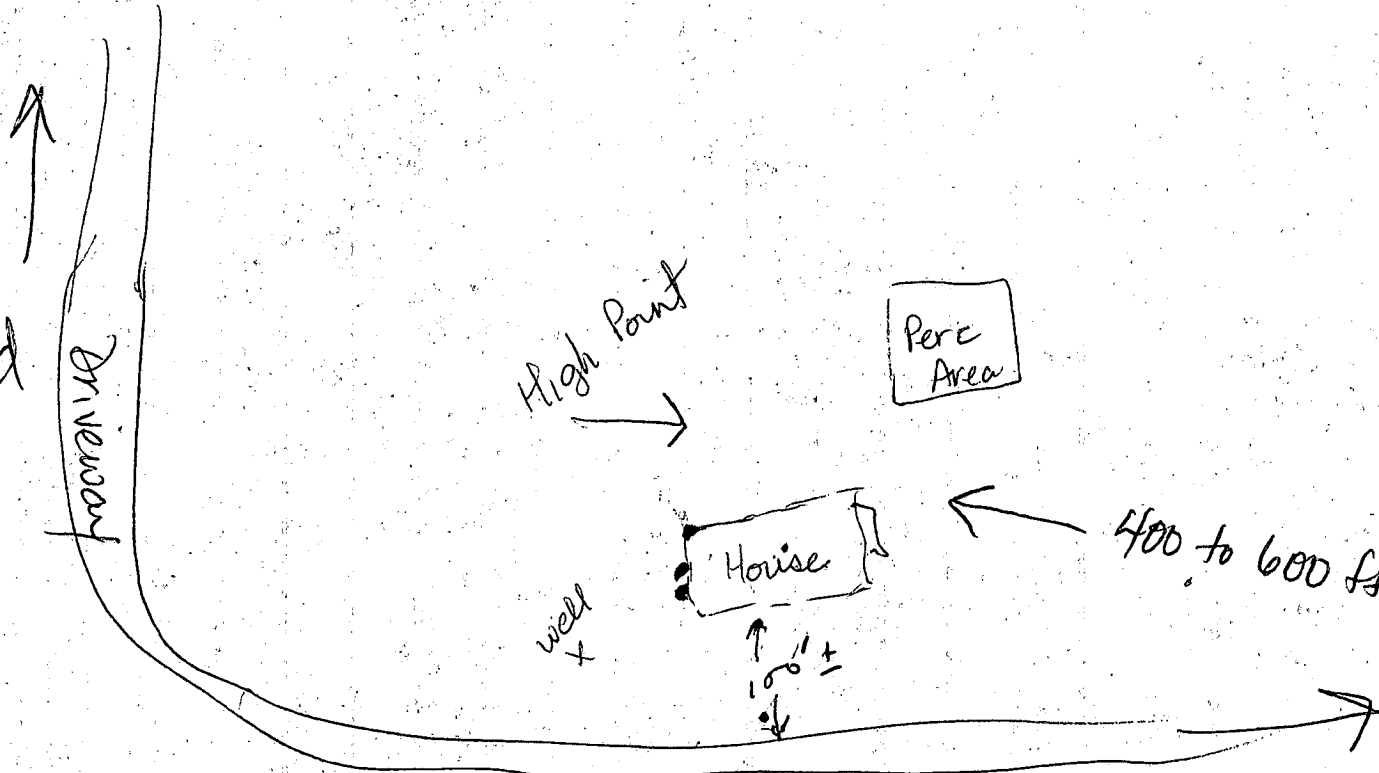
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 3' 2:38:30 2:39:30 2:41 1 1/2 MIN OK
 8' 2:38:30 2:40:30 2:44 3 1/2 MIN
 12 VLS OK 30-40% SHALE

#3
 3 2:46:30 2:54 3:02 8 MIN OIL SHALE W
 8 2:44:30 2:48 2:50 2 MIN
 12 ROCKY BELOW 8'

#2
 2 1/2' 3:00 1ST INCH 30% W
 5' 3:00:20 3:02 3:03 X
 2ND FOUR - FAST



To Penn Shop Road



High Point

Perc Area

House

well

100' ±

400 to 600 ft

To Main House



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

August 3, 1992

Reply to:

Mr. and Mrs. John M. Jefferson
18653 Penn Shop Road
Mt. Airy, Maryland 21771

RE: Percolation Testing
Penn Shop Road
Tax Map: 6 Parcel: 16"A"

Dear Mr. and Mrs. Jefferson:

A percolation test date has been reserved for 10:00 a.m., Wednesday, August 19, 1992.

You will be responsible for having a contractor on-site to excavate test holes at the corners of proposed percolation area.

The proposal is to subdivide a single lot from a larger property containing two existing houses. No health department records could be located regarding the location or condition of the existing well and septic system.

Part of the subdivision review process is to ensure that any remainder existing parcel has adequate provision for its water supply and waste disposal requirements.

To this end, percolation testing should be conducted to confirm that the condition of the existing septic system is satisfactory. For an existing house, a \$25.00 septic repair permit fee can be assessed instead of the standard \$225.00 percolation test fee. The well would also be subject to construction inspection to ensure that it is properly protected.

Please call to confirm test date and to discuss testing requirements for existing house.

Thank you for your cooperation in this matter.

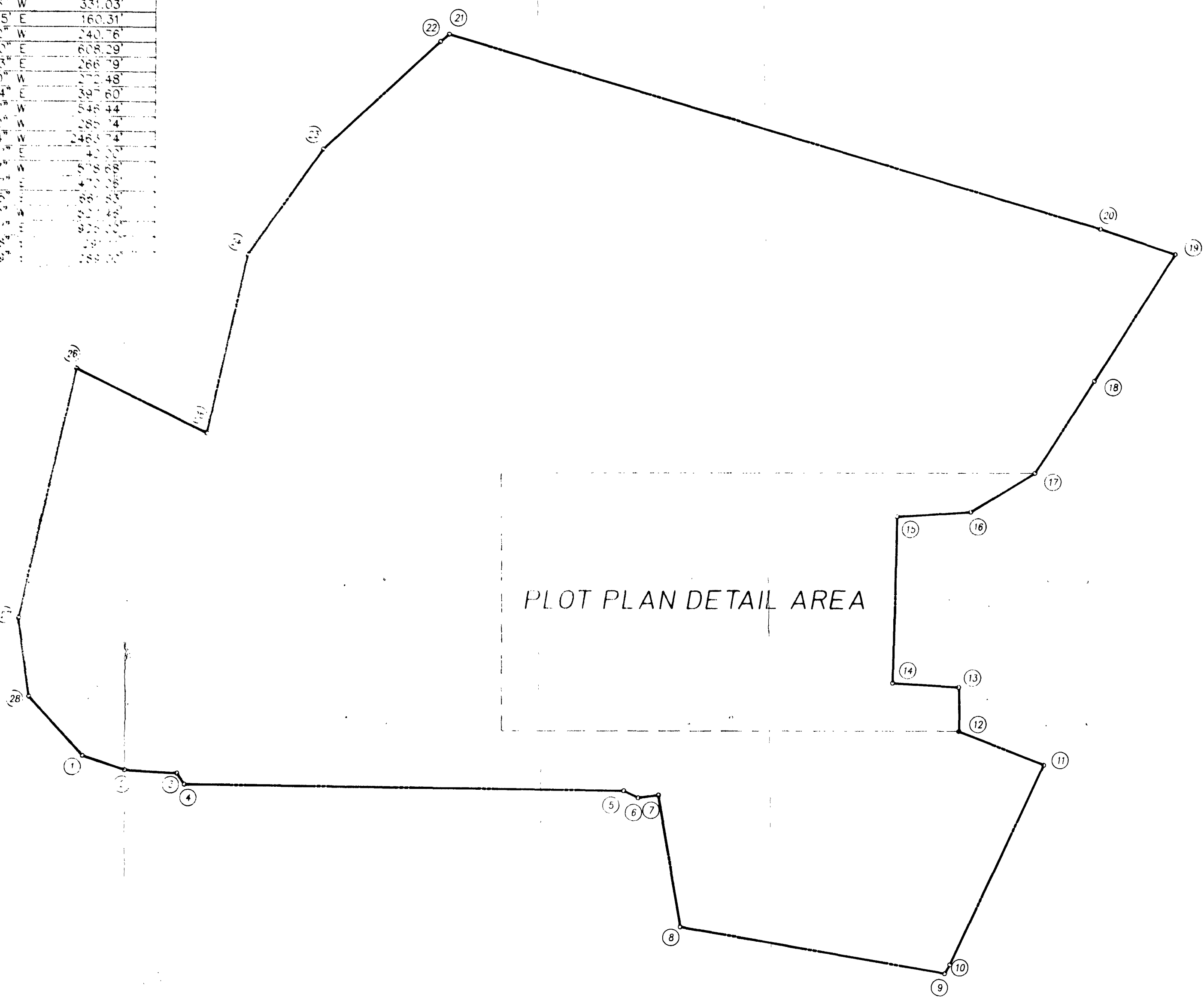
Very truly yours,

Craig Williams, DEN
Craig Williams, Program Director
Water and Sewerage Program

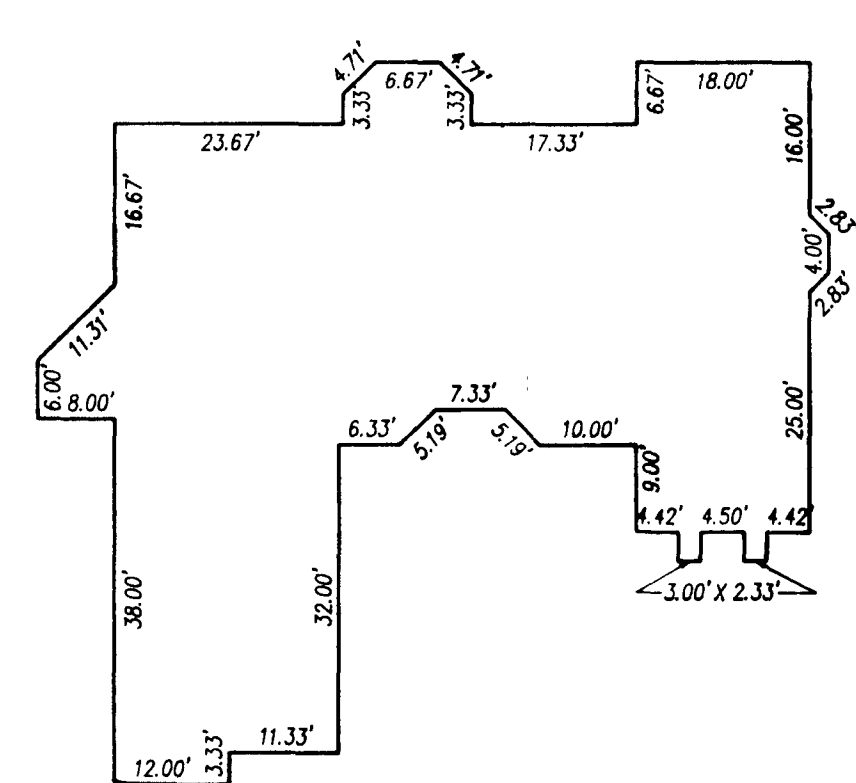
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Bureau of Environmental Health
3525-H Ellicott Mills Drive Ellicott City, Maryland 21043-4544
Water and Sewerage, Permits 313-2640 Community Environmental Health 313-2642
Technical Services 313-2644 Director 313-2645 TDD 313-2323

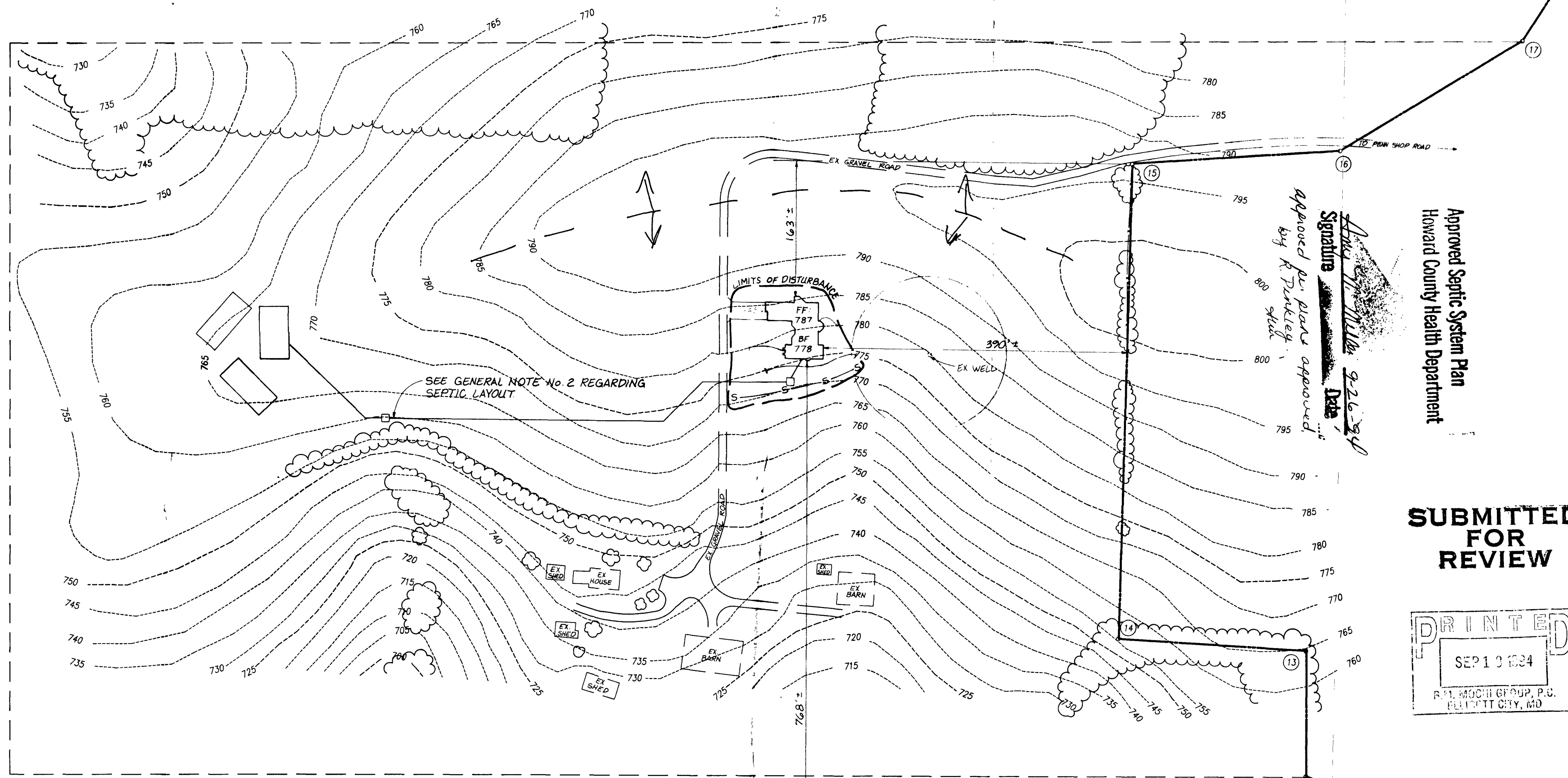
LINE	DIRECTION	DISTANCE
1-2	N 39°40'59"	162.26'
2-3	N 24°10'59"	191.86'
3-4	S 85°55'16"	41.86'
4-5	S 21°38'00"	1595.00'
5-6	S 48°11'06"	57.76'
6-7	S 33°28'58"	41.00'
7-8	S 42°54'42"	425.48'
8-9	S 30°46'42"	421.97'
9-10	S 44°50'00"	53.00'
10-11	S 42°54'42"	803.84'
11-12	S 42°55'16"	533.03'
12-13	S 69°15'15"	260.31'
13-14	S 24°29'42"	214.26'
14-15	S 17°54'41"	214.26'
15-16	S 16°54'41"	214.26'
16-17	S 16°54'41"	214.26'
17-18	S 16°54'41"	214.26'
18-19	S 16°54'41"	214.26'
19-20	S 16°54'41"	214.26'
20-21	S 16°54'41"	214.26'
21-22	S 16°54'41"	214.26'
22-23	S 16°54'41"	214.26'
23-24	S 16°54'41"	214.26'
24-25	S 16°54'41"	214.26'
25-26	S 16°54'41"	214.26'
26-27	S 16°54'41"	214.26'
27-28	S 16°54'41"	214.26'
28-29	S 16°54'41"	214.26'
29-30	S 16°54'41"	214.26'
30-31	S 16°54'41"	214.26'
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32-33	S 16°54'41"	214.26'
33-34	S 16°54'41"	214.26'
34-35	S 16°54'41"	214.26'
35-36	S 16°54'41"	214.26'
36-37	S 16°54'41"	214.26'
37-38	S 16°54'41"	214.26'
38-39	S 16°54'41"	214.26'
39-40	S 16°54'41"	214.26'
40-41	S 16°54'41"	214.26'
41-42	S 16°54'41"	214.26'
42-43	S 16°54'41"	214.26'
43-44	S 16°54'41"	214.26'
44-45	S 16°54'41"	214.26'
45-46	S 16°54'41"	214.26'
46-47	S 16°54'41"	214.26'
47-48	S 16°54'41"	214.26'
48-49	S 16°54'41"	214.26'
49-50	S 16°54'41"	214.26'
50-51	S 16°54'41"	214.26'
51-52	S 16°54'41"	214.26'
52-53	S 16°54'41"	214.26'
53-54	S 16°54'41"	214.26'
54-55	S 16°54'41"	214.26'
55-56	S 16°54'41"	214.26'
56-57	S 16°54'41"	214.26'
57-58	S 16°54'41"	214.26'
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62-63	S 16°54'41"	214.26'
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68-69	S 16°54'41"	214.26'
69-70	S 16°54'41"	214.26'
70-71	S 16°54'41"	214.26'
71-72	S 16°54'41"	214.26'
72-73	S 16°54'41"	214.26'
73-74	S 16°54'41"	214.26'
74-75	S 16°54'41"	214.26'
75-76	S 16°54'41"	214.26'
76-77	S 16°54'41"	214.26'
77-78	S 16°54'41"	214.26'
78-79	S 16°54'41"	214.26'
79-80	S 16°54'41"	214.26'
80-81	S 16°54'41"	214.26'
81-82	S 16°54'41"	214.26'
82-83	S 16°54'41"	214.26'
83-84	S 16°54'41"	214.26'
84-85	S 16°54'41"	214.26'
85-86	S 16°54'41"	214.26'
86-87	S 16°54'41"	214.26'
87-88	S 16°54'41"	214.26'
88-89	S 16°54'41"	214.26'
89-90	S 16°54'41"	214.26'
90-91	S 16°54'41"	214.26'
91-92	S 16°54'41"	214.26'
92-93	S 16°54'41"	214.26'
93-94	S 16°54'41"	214.26'
94-95	S 16°54'41"	214.26'
95-96	S 16°54'41"	214.26'
96-97	S 16°54'41"	214.26'
97-98	S 16°54'41"	214.26'
98-99	S 16°54'41"	214.26'
99-100	S 16°54'41"	214.26'



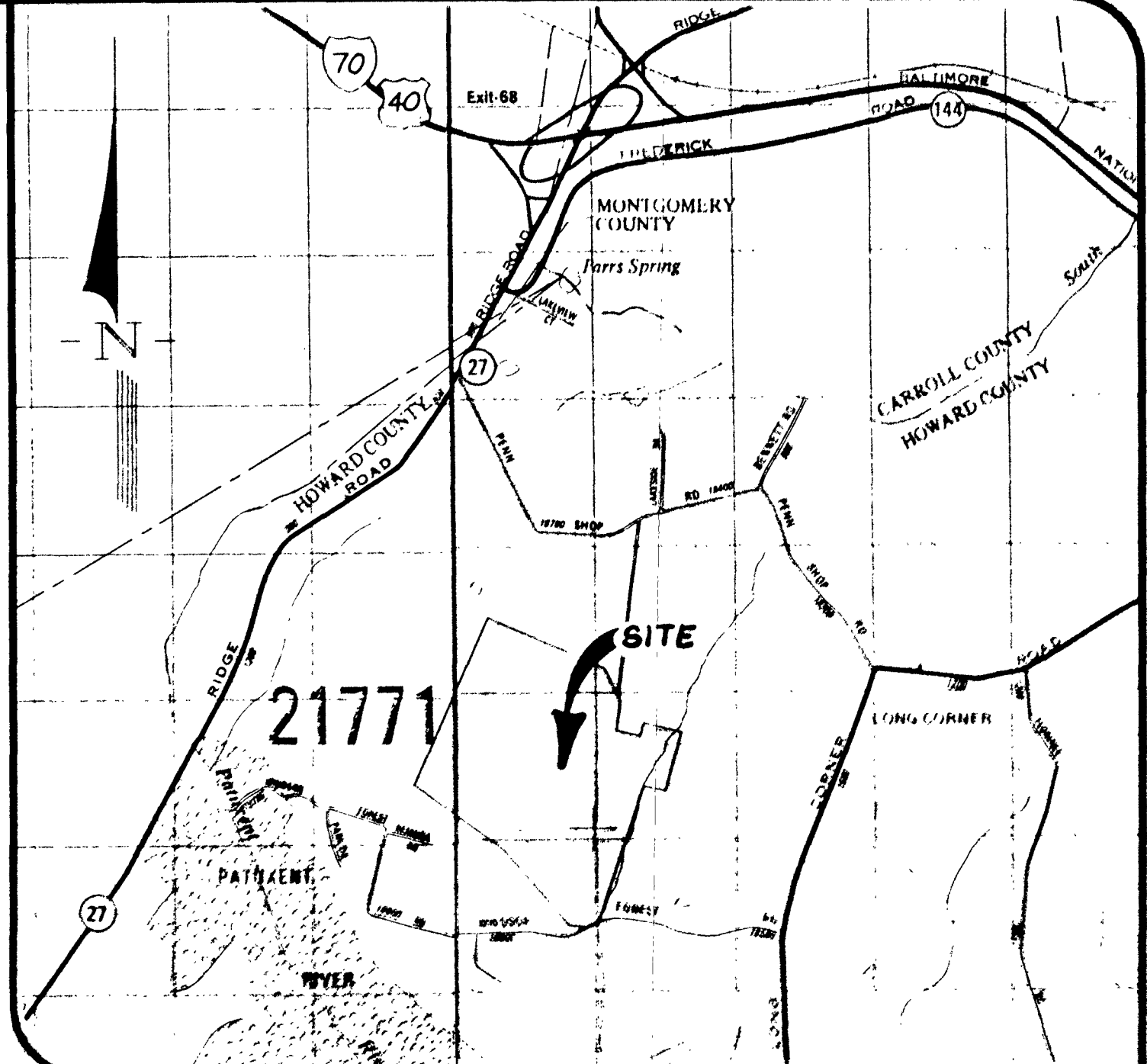
PROPERTY OUTLINE DETAIL
SCALE: 1" = 300'



HOUSE FOOTPRINT DETAIL
SCALE: 1" = 20'



PLOT PLAN DETAIL
SCALE: 1" = 100'



VICINITY MAP
COPYRIGHT AND THE MAP PEOPLE
PERMITTED USE NO. 20792173
SCALE 1" = 2000'

- GENERAL NOTES:
1. Property outline based on Plat No 5126 "Windsor Forest"
 2. See approved "Sandmound Plan" prepared by Sanitary/Environmental Engineering, Inc. dated 6/93 for proposed Septic layout.

PROJECT DATE 9/9/84
94032-00 9/9/84
PLATTION Engineering
MAS JIM
SCALE 1" = 100' RUM

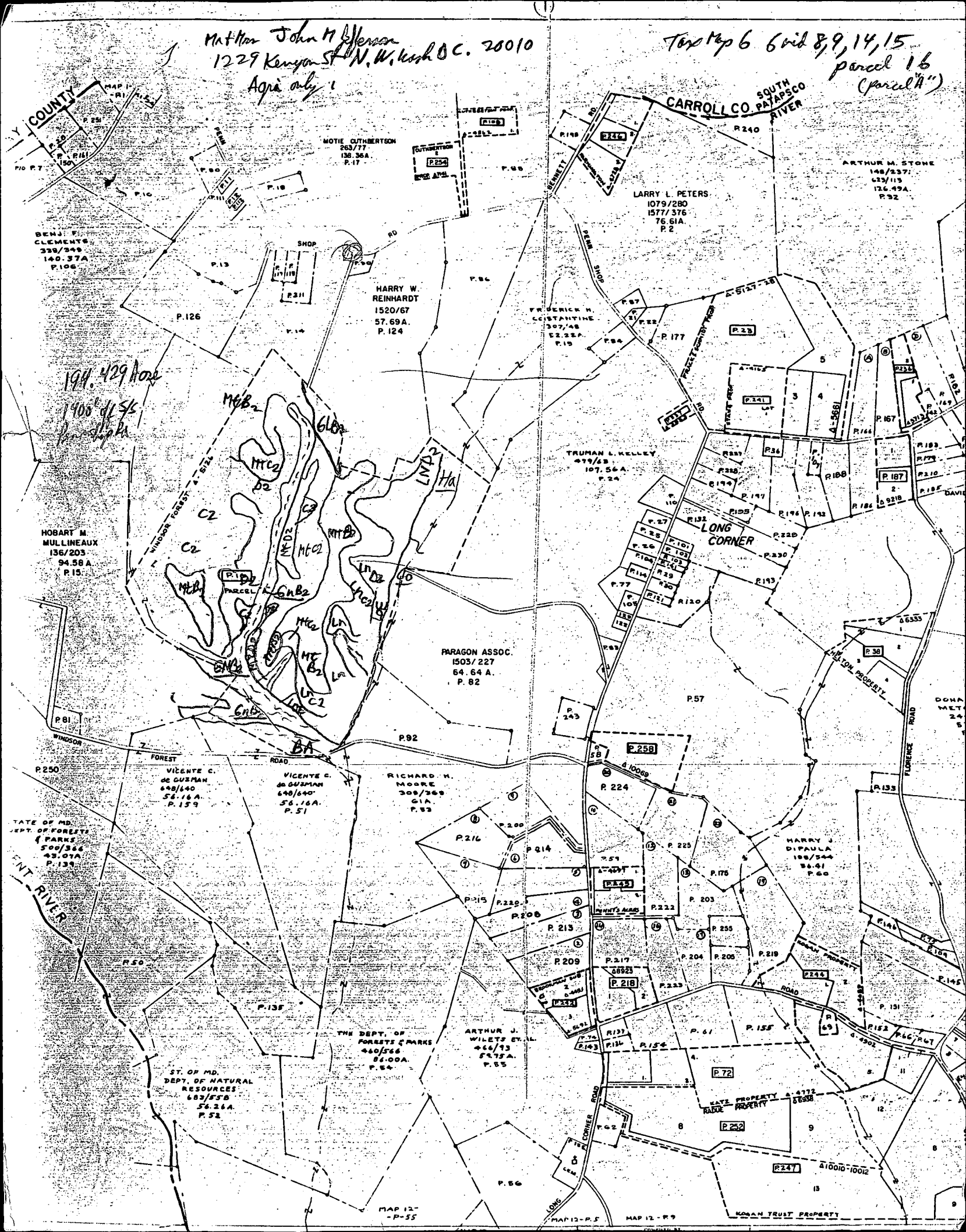
DATE
DRAWN BY
CHECKED BY
APPROVED BY

18653 PENN SHOP ROAD
JEFFERSON PROPERTY
HOWARD COUNTY
ELECTION DISTRICT No. 4
PLOT PLAN

EM MOCHI GROUP, P.C.
1110 W. BROADWAY, SUITE 230
PITTSBURGH, PA 15222
TEL: (412) 726-6240

Matthew John M. Jefferson
1229 Kenyon St. N.W., Wash. D.C. 20010
Agriculture

Tax Map 6 6vid 8, 9, 14, 15
parcel 16
(parcel 11)



BENJ. CLEMENTS
329/349
140.37A
P. 106

MOTIE GUTHBERTSON
263/77
136.36A
P. 17

LARRY L. PETERS
1079/280
1577/376
76.61A
P. 2

ARTHUR M. STONE
148/237
629/115
126.49A
P. 32

HARRY W. REINHARDT
1520/67
57.69A
P. 124

FREDERICK H. CCSTAINFINE
307/48
52.28A
P. 119

TRUMAN L. KELLEY
479/63
107.56A
P. 24

HOBART M. MULLINEAUX
136/203
94.58A
P. 15

PARAGON ASSOC.
1503/227
64.64A
P. 82

VICENTE C. DE GUSMAN
648/640
56.16A
P. 159

VICENTE C. DE GUSMAN
648/640
56.16A
P. 51

RICHARD W. MOORE
309/368
61A
P. 83

HARRY J. DIPAULA
186/344
86.61
P. 60

THE DEPT. OF FORESTS & PARKS
440/566
86.00A
P. 64

ARTHUR J. WILETS ET AL.
466/73
54.75A
P. 55

ST. OF MD. DEPT. OF NATURAL RESOURCES
683/558
56.26A
P. 52

STATE PROPERTY
46732
86.88A
P. 22

194.429 Acre
1908' of 1/2 S of parcel 16
Parcel 16

STATE OF MD. DEPT. OF FORESTS & PARKS
509/366
43.01A
P. 139

MAP 12-P-55

MAP 12-P-5

MAP 12-P-9

KOGAN TRUST PROPERTY