

11/13/89  
11/20/89

03-295990

INST OF PUMPS & ALARMS REQ'D.

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH DISTRICT \_\_\_\_\_

**HOWARD COUNTY**  
BUREAU OF ENVIRONMENTAL HEALTH  
461-9933

INDEXED

INDEXED

P 44930

A 41662

DATE 9/06/89

DATE SYSTEM APPROVED 6/22/90

INSPECTOR Bdt

TRANSFERRED TO FLOCK 11/89

Paul Schissler/South Carroll Backhoe, Inc.

IS PERMITTED TO INSTALL  ALTER \_\_\_\_\_

ADDRESS 4410 Salem Bottom Road, Westminster, Maryland PHONE 875-4197

SUBDIVISION Shoemaker Property ROAD 3200 West Ivory Road LOT \_\_\_\_\_

PROPERTY OWNER Spencer Arrington Jeff + Lynda Wallen

ADDRESS \_\_\_\_\_

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

GARBAGE GRINDER? YES  NO

*(Changed made per S Carroll Backhoe on 9/13/89)*

SEPTIC TANK CAPACITY 1500 GALLONS NUMBER OF BEDROOMS 3

TRENCHES - 220 sq. ft. per bedroom with garbage disposal. Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 6 feet below original grade. Effective area begins at 3 feet below original grade. 3 feet of stone below distribution pipe.

LOCATION - Start the first trench 10 feet off the front lot line and 210 feet from the right lot line as seen when facing the lot from West Ivory Road. Run trench toward the right lot line. Install trenches 10 feet apart.

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*

**\*\*\* REQUEST INSPECTION AS SOON AS EXCAVATION IS BEGUN. C.W. \*\*\***

PLANS APPROVED BY Sid Abel DATE 5/16/89

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

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

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

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

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

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

PERMIT VOID AFTER TWO YEARS

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

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

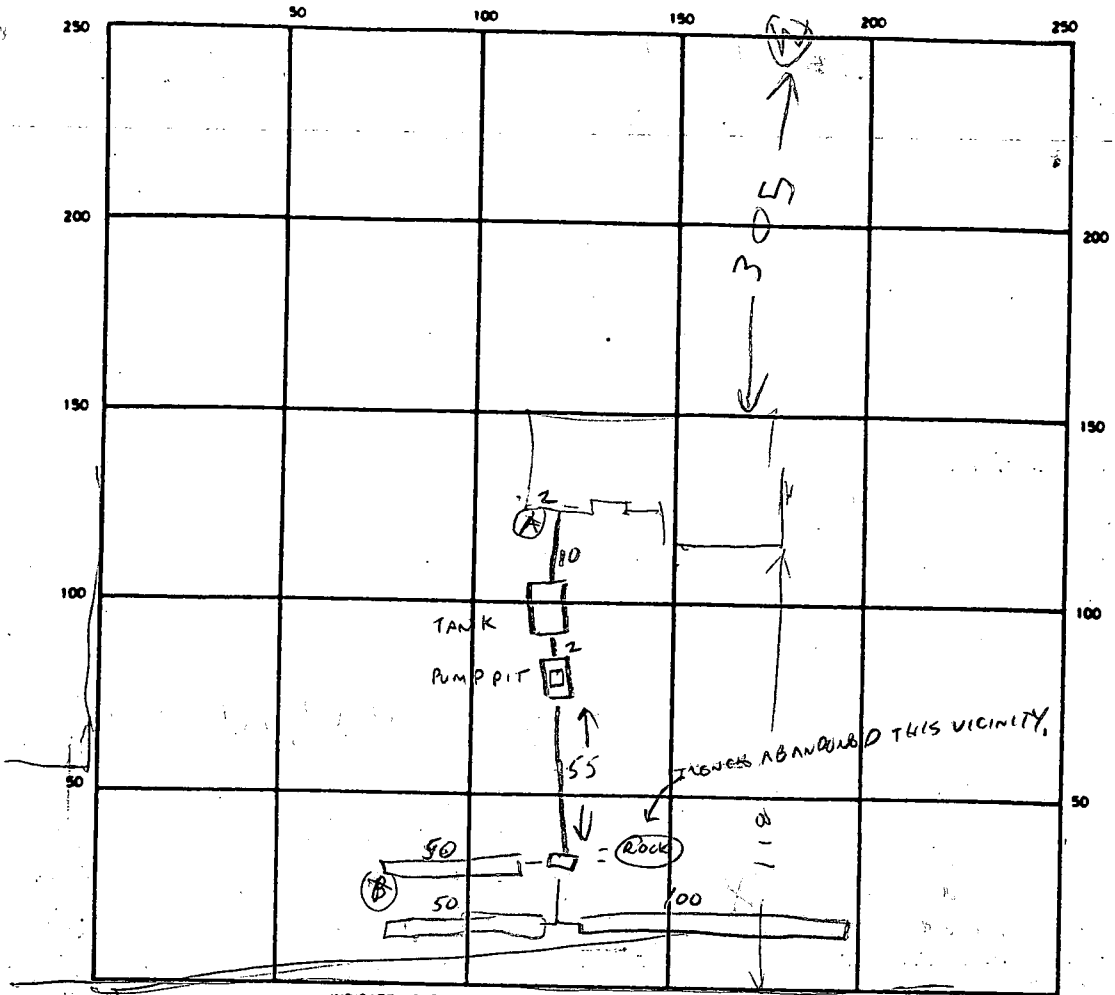
BUDG. PERMIT SIGNED AND RETURNED 11/29/89  
Qual # 30700

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

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

*propane tank*

A 41662



SEPTIC TANK LEVEL ✓ CLEANOUTS STV, PUMP PIT ✓

DISTRIBUTION BOX LEVEL ✓

DRAIN FIELD/TILE FIELD DEPTH 6 FT TRENCH WIDTH 2 FT INLET DEPTH 3 FT

EFFECTIVE GRAVEL DEPTH 6 FT TOTAL LENGTH 200 FT

NUMBER OF TRENCHES 3 (50+50+100) ONE SIDEWALL/BOTTOM AREA 600 SQ FT

DRYWELL INSIDE DIAMETER — FT EFFECTIVE DEPTH BELOW INLET — FT

ABSORBENT AREA 600 SQ FT

REMARKS 11/13/89 GROUND AT CORNER OF HOUSE (A) IS 5 1/2 FT LOWER THAN GROUND AT  
DISTRIBUTION BOX SITE (B) PUMP SYSTEM NEEDED. BACKYARD CHECKED ELEVATIONS WITH A TRANSIT R/L  
11/20/89 ABANDON TRENCH AT ROCK LOCATION, EXTEND OTHER TRENCHES  
TO ESTABLISH NEEDED AREA. MUST SEE PUMPS + ALARMS FOR FINAL APPROVAL. C.W.  
6-22-90 Observed H<sub>2</sub>O from house enter ground feet  
and pump functioned properly. Bdt

DATE SYSTEM APPROVED 6-22-90 INSPECTOR Bdt

# APPLICATION

MAY 17 1988  
R626 ST  
11/2/88 9:30

PERCOLATION TESTING

A 41662  
P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_  
DATE 5/5/88

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.

8826 MEADOW HUSH RD  
REI

PROPERTY OWNER JOHN W. STOEHLER SPENCER ARRINGTON RANDALL STONE

ADDRESS 2215 PLEASANT VIEW AVE. CARROLLSVILLE MD 21228 PHONE 21133

PROSPECTIVE BUYER JOHN G & JENGA I. STAMORHUN

ADDRESS 3404 SHARP RD GLENWOOD MD 21738 PHONE 301 379-396

SPENCER ARRINGTON - 655-8099

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION 3200 WEST IVORY RD

TAX MAP 22 PARCEL # BLOCK 2 PARCELS EXISTING HOUSE TO BE DEMOLISHED.

SIZE OF LOT 2A 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.

John W. Stoehler  
(SIGNATURE OF APPLICANT)

APPROVED BY Srd Cebal FOR Dep. Trust DATE 5-16-89

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

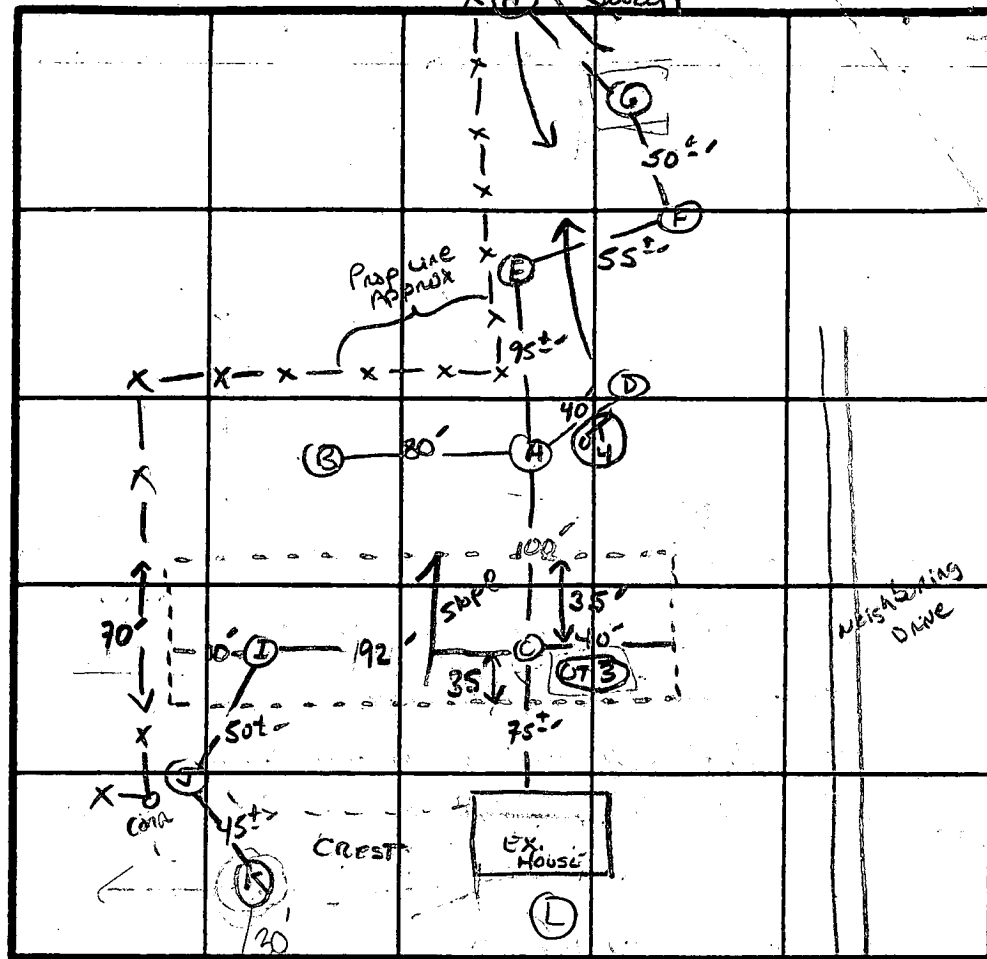
HD-216

COPIES OF PERMIT STORED  
AND RETURNED 5-16-89

BP25517

# THIS IS NOT A PERMIT

SOIL PROFILE



X PERC 7min  
180' / BA  
Inlet 3  
Bottom 6  
2' wide  
2-90' TRENCHES  
Required

--- Possible SDA Reserve Area

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

W. IVORY Rd.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
11/2/88	H-	CHLSTER Gravelly loam - clayey to 5"						
	G-	Glenville Soil w/ Poorly developed Fragipan. H <sub>2</sub> O 10'						
	F-	Glenville Soil w/ w develop Fragipan AT 32"-43"					H <sub>2</sub> O 10.5'	
	E-	TIGHT BA ZONE TO 5" CHLSTER/Glenville TRANSITION					H <sub>2</sub> O 10.0'	
	D-	REFUSAL 8" NO H <sub>2</sub> O						
	C-							
	B-	REFUSAL AT 7.5" BE TO 4.5"						
	A-	REFUSAL AT 3" NO H <sub>2</sub> O					STRONG BA 4"	
	J-	REFUSAL AT 2" MASSIVE AT 18"						
		C	15" INFILTRATOR	12:02	1:02	1:02	1:32 = 5/16"	
	I	INFILTRATOR	1:37	2:56	2:56	4:00 = 7/16"		
	K	STANDARD S 42"	2:18	2:23	2:23	2:34	11min	
	K	M 7"	2:39	2:41	2:41	2:43	2 min	
	K	V 12"	SILTY loam below 8"				NO EVIDENCE OF H <sub>2</sub> O	
	L	S 3"	3:03	3:33	3:33	3:43 = 3/4"		
	L	M 7"	3:10	3:43	3:43			
	L	V 10'	HARD (COMPACTED) SOILS					

REMARKS \_\_\_\_\_

TYPE OF SOIL \_\_\_\_\_

TESTED BY

S Abel

ALSO PRESENT \_\_\_\_\_

# APPLICATION

PERCOLATION TESTING

A 4/6/82  
P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_

DATE 5/5/88

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 W. SHOEMAKER

ADDRESS 2215 PLEASANT VIEW AVE, CATONSVILLE MD, 21228 PHONE \_\_\_\_\_

PROSPECTIVE BUYER JOHN G. & ENGA I. SHAMORITUN

ADDRESS 3404 SHARP RD, GLENWOOD MD 21738 PHONE 301-379-3961

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION 3200 WEST IVORY RD

TAX MAP 22 PARCEL # BLOCK 2 PARCEL 9

SIZE OF LOT 2 A 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.

John W. Shoemaker  
(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

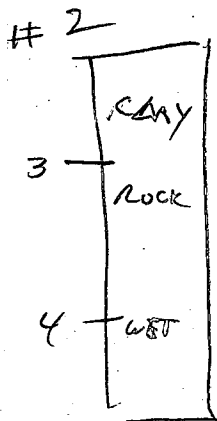
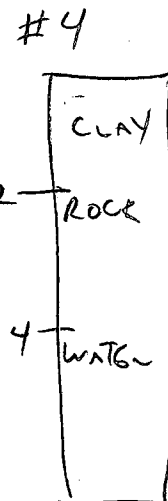
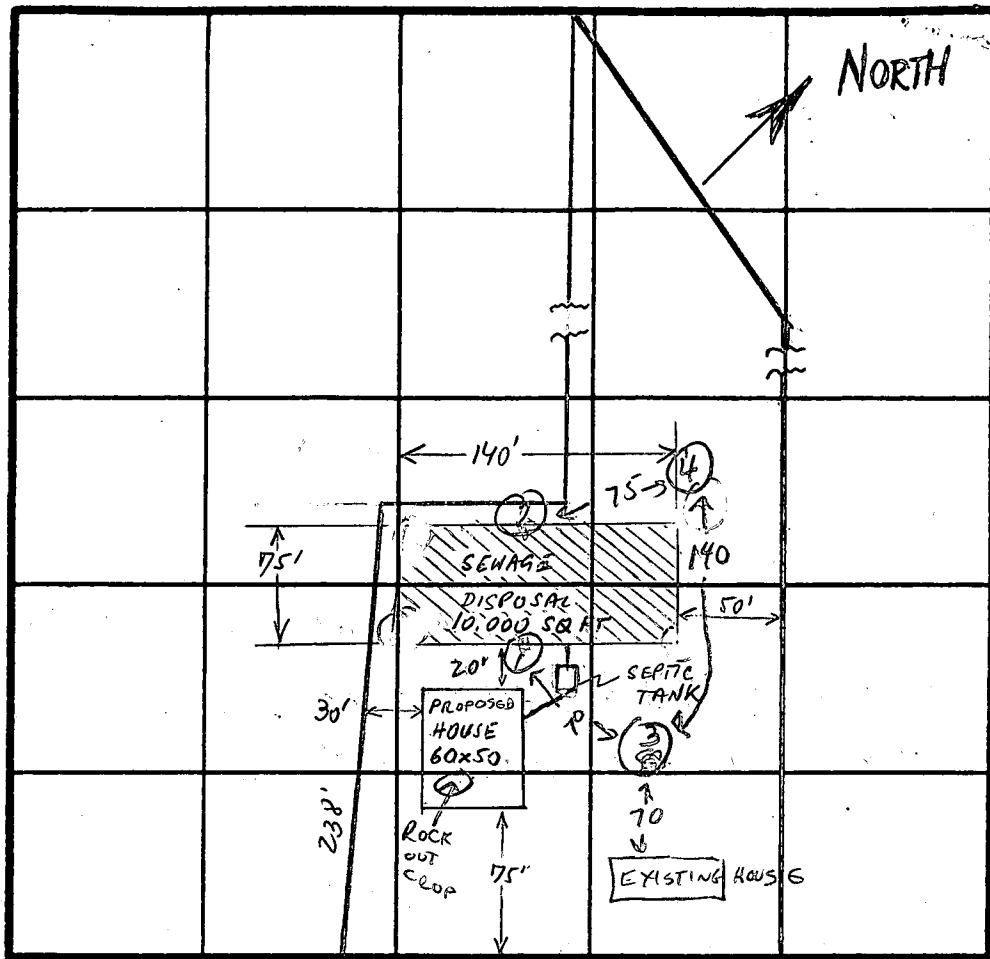
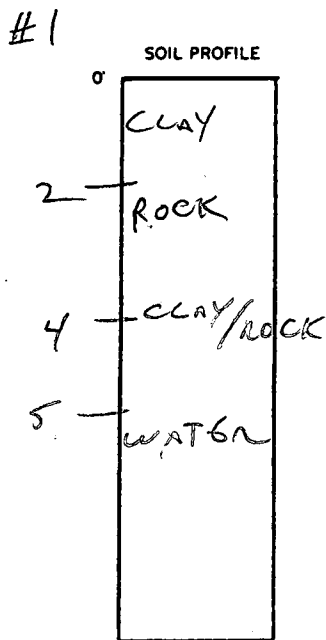
REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

HD-216

# THIS IS NOT A PERMIT

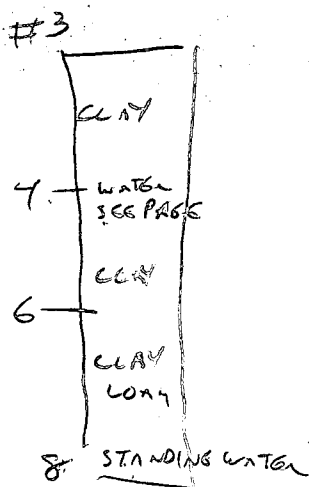


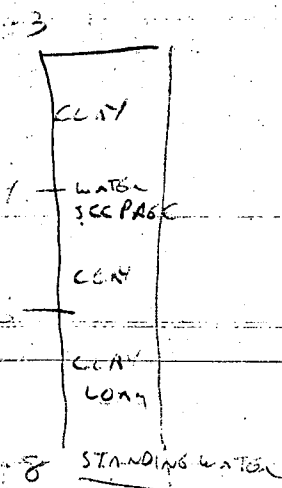
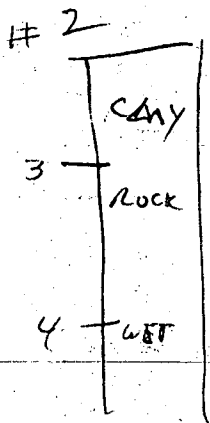
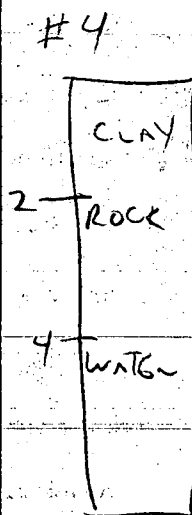
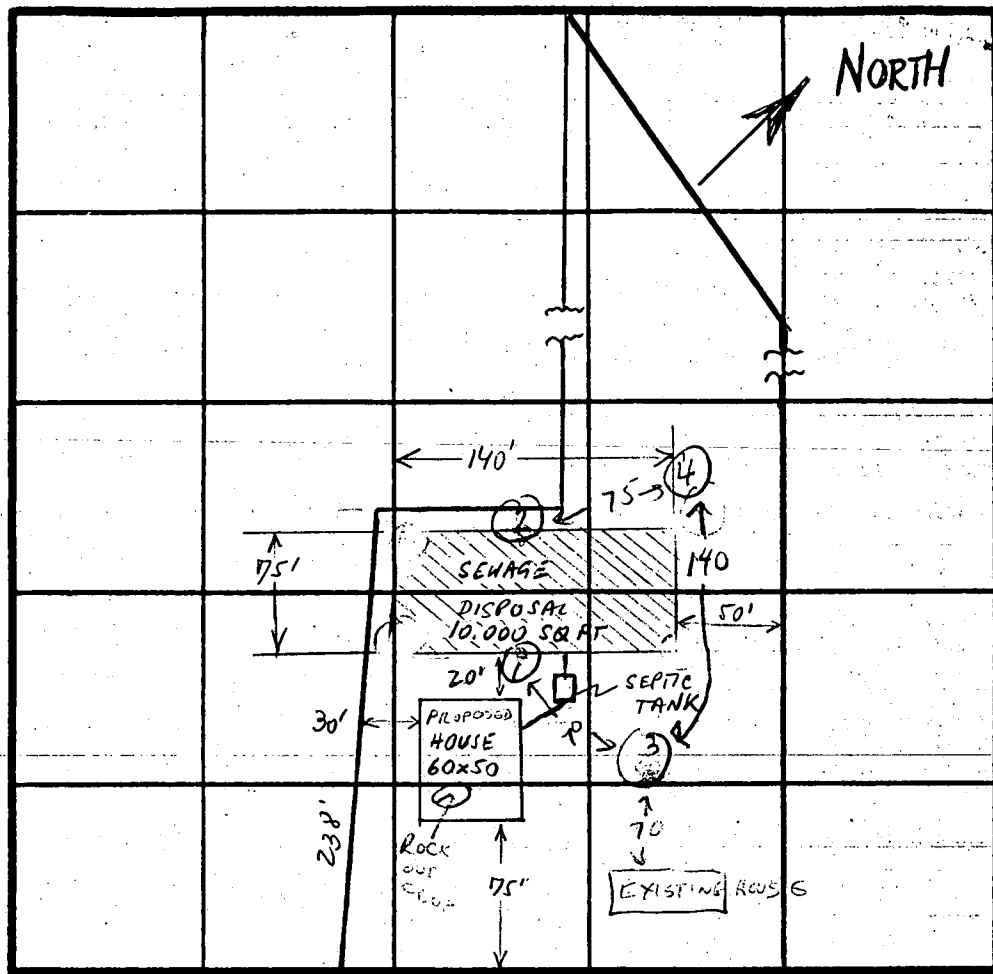
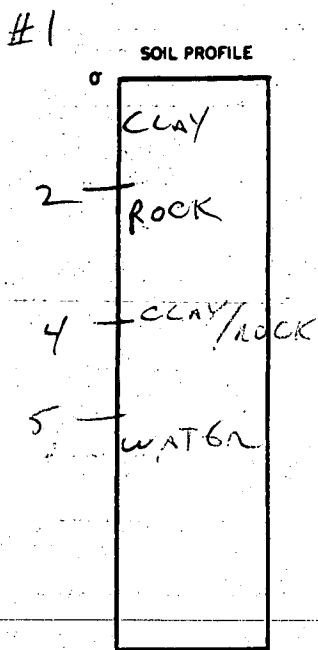
DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
			START	STOP	START	STOP	
9/17/88	1	FAILED	ROCK	AT 2'	WATER	AT 5'	X
	2	FAILED	CLAY,	ROCK	AT 3'	WATER AT 4'	X
	3	4	FAILED		CLAY & WATER		X
	4	FAILED	ROCK	AT 2'	WATER	AT 4'	X

REMARKS: HOUSE UNOCCUPIED FOR SEVERAL YEARS, NO EVIDENCE OF SEPTIC SYSTEM.

TYPE OF SOIL: DIFFICULT CONDITIONS FOR ANY TYPE OF REPAIR, NO POSSIBILITY FOR SUBDIVISION.

TESTED BY: CW [Signature] ALSO PRESENT: SKP, MS SHMORAN





INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.  
WEST IVORY ROAD

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7/17/88	1	FAILED	ROCK	AT 2'	WATER	AT 5'	X
	2	FAILED	CLAY	ROCK	AT 3'	WET AT 4'	X
	3	4	FAILED		CLAY & WATER		X
	4	FAILED	ROCK	AT 2'	WATER	AT 4'	X

REMARKS HOUSE UNOCCUPIED FOR SEVERAL YEARS, NO EVIDENCE OF SEPTIC SYSTEM.

TYPE OF SOIL DIFFICULT CONDITIONS FOR ANY TYPE OF REPAIR, NO POSSIBILITY FOR SUBDIVISION.

TESTED BY C. Waller ALSO PRESENT SEIP, MS SHMORBUN

# SOIL DESCRIPTION

NAME Shoemaker/ Shmarhum COUNTY Howard FILE NO A-41662

SOIL MAP UNIT Chester MAP SYMBOL Ch/fg DATE 11/2/88

GEOLOGIC MATERIAL Residuum over Crystalline/mica-CEOUS HARILSCHIST Elevation \_\_\_\_\_ GRID No. \_\_\_\_\_

No. TFC DESCRIBED BY S. Abel

Horizon	Depth in.	Color		Texture	Structure		% Coarse Fragments	Notes (Moisture, Density, Consistence, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
O	1-2"							Decomposed PLANT MATERIAL + LITTER
Ap Hx	1-6"	10YR 3/2	—	Sl	0-1	Granular	10-15%	MOIST, STICKY SMOOTH/GRADUAL BOUNDARY HIGHLY MICACEOUS
E	6"-10"	7.5YR 5/4	—	Sl	1-2	Granular	15-25%	MICACEOUS FRAGS W/ SMALL AMTS OF ANGULAR QUARTZITE WAVY BOUNDARY
Bt	10"-50"	10YR 5/4	—	SiC	1-2	Subang. Blocky	20-30%	POCKETS OF ST. mica SCHIST GO TO SURFACE, BOUNDARY WAVY, STICK CLAYEY FILMS S+R S/4 IRAY, BOUNDARY
B <sub>2</sub> /C	50"-73"	10YR 5/5	—	Sl	0-1	Subang. Blocky	30+%	STICK 60-70° TO SURFACE WELL WEATHERED SAPROLITE
C <sub>1</sub> /C	73"	N6	—	l		Platy		
				NOTE: CLM IN Bt 20-30%				
				NOTE - DUE TO HIGH MICA CONTENT MATRIX COLOR DIFFICULT TO ASSESS.				

### LANDSCAPE FEATURES

Upland/Maxile \_\_\_\_\_ Summit \_\_\_\_\_  
 Bench \_\_\_\_\_ Shoulder \_\_\_\_\_  
 Terrace  Sidelobe   
 Floodplain \_\_\_\_\_ Footslope \_\_\_\_\_  
 Depression \_\_\_\_\_ Toeslope \_\_\_\_\_  
 Slope % 5-12 Shape Width \_\_\_\_\_

### SOIL DRAINAGE CLASS

ED \_\_\_\_\_ MWD  PD \_\_\_\_\_  
 WD \_\_\_\_\_ SPD \_\_\_\_\_ VPD \_\_\_\_\_

### WATER TABLE

Type \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Misc. \_\_\_\_\_

### GEOLOGIC MATERIAL

Recent Alluvium \_\_\_\_\_  
 Old Alluvium \_\_\_\_\_  
 Coastal Plain Sediments \_\_\_\_\_  
 Residuum   
 Colluvium \_\_\_\_\_  
 Eolian \_\_\_\_\_  
 Misc. \_\_\_\_\_

### LIMITING HORIZON Depth

B-Horizon   
 Fragipan \_\_\_\_\_  
 C-Struc. Saprolite \_\_\_\_\_  
 Cr-Struc. Saprolite \_\_\_\_\_  
 C-Horizon \_\_\_\_\_  
 R-Bedrock \_\_\_\_\_  
 Other \_\_\_\_\_

# SOIL DESCRIPTION

NAME Shoemaker / Shmochum COUNTY Howard FILE NO. A-41662

SOIL MAP UNIT Chesler MAP SYMBOL Ch/cg DATE 10/2/88

GEOLOGIC MATERIAL Residuum over Crystalline/mica-aceous rock Elevation \_\_\_\_\_ GRID No. \_\_\_\_\_

No. TP-1

DESCRIBED BY S. Aul

Horizon	Depth in.	Color		Texture	Structure		% Coarse Fragments	Notes (Moisture, Density, Consistence, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
O	1-2"							LITTER + Decomposed PLANT material
AP(1/2)	1-5"	10YR 7/2	—	Si	0-1	Granular	10-15%	MOIST STICKY GRAOAL boundary Highly micaceous
E	5'-8"	7.5YR 6/5	—	Si	1-2	Granular	10-15%	High micaceous, wavy boundary- C- 15-20%
Bt	8" 40"	10YR 5/4	—	Si	2	Subang Blocky	15-25%	C- 20-25%, MOIST, STICKY, irreg boundary. Highly micaceous.
B <sub>2</sub> /c	40"-66"	10YR 6/5	—	Si	1-2	Blocky	30-40%	MASSIVE AREAS OF WEATHERED SCIST C- 20-25% Films between saprolite
Cr	66"	N <sub>10</sub>	—	Si		Platy	50+%	clayey films, well weathered micaceous SCIST
NOTE: Due to high mica content MATRIX color difficult to assess								

### LANDSCAPE FEATURES

Upland/Maxine \_\_\_\_\_ Summit \_\_\_\_\_  
 Bench \_\_\_\_\_ Shoulder \_\_\_\_\_  
 Terrace  Sideslope   
 Floodplain \_\_\_\_\_ Footslope \_\_\_\_\_  
 Depression \_\_\_\_\_ Toeslope \_\_\_\_\_  
 Slope % \_\_\_\_\_ Shape Width \_\_\_\_\_

### SOIL DRAINAGE CLASS

ED \_\_\_\_\_ MWD  PD \_\_\_\_\_  
 WD \_\_\_\_\_ SPD \_\_\_\_\_ VPD \_\_\_\_\_

### WATER TABLE

Type \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Misc. \_\_\_\_\_

### GEOLOGIC MATERIAL

Recent Alluvium \_\_\_\_\_  
 Old Alluvium \_\_\_\_\_  
 Coastal Plain Sediments \_\_\_\_\_  
 Residuum   
 Colluvium \_\_\_\_\_  
 Eolian \_\_\_\_\_  
 Misc. \_\_\_\_\_

### LIMITING HORIZON Depth

B-Horizon   
 Fragipan \_\_\_\_\_  
 C-Struc. Saprolite \_\_\_\_\_  
 Cr-Struc. Saprolite \_\_\_\_\_  
 C-Horizon \_\_\_\_\_  
 R-Beck \_\_\_\_\_  
 Other \_\_\_\_\_



3200 WEST IVORY RD.

A41662

SHOEMAKER PROPERTY

DURING THE WEEK OF JUNE 25, 1989, MR SHMORHUN  
CALLED TO EXPRESS HIS CONCERN ABOUT THE DISPOSITION  
OF THE ABOVE REFERENCED PROPERTY. HE IS ~~EXCER~~ DISTURBED  
BECAUSE HIS ATTEMPT AT PERCOLATION TESTING  
IN ~~MAY~~ MAY 1988 WAS RULED UNSUCCESSFUL,  
BECAUSE CERTAIN CRITERIA COULD NOT BE SATISFIED.  
HE HAS <sup>RECENTLY</sup> ~~JUST~~ LEARNED THAT ~~WITHOUT FILING ANOTHER~~  
~~APPLICATION,~~ A RE-TEST WAS PERFORMED  
FOR ANOTHER PARTY AND THE RESULTS WERE  
SUCCESSFUL, EVEN THOUGH CERTAIN OF THE  
OUTLINED CRITERIA WERE NOT SATISFIED.

ORIGINAL TESTING WAS PERFORMED 5/17/88

- a) THE TESTING WAS COMPLETELY UNSUCCESSFUL.
- b) PRIOR TO TESTING, THE APPLICANT INDICATED INTEREST IN TRANSFERRING (VIA ADJOINED CONVEYANCE PERHAPS) PART OF THE PROPERTY. HE INDICATED HIS INTEREST WAS TO BUILD A NEW AND LARGER HOUSE UNRELATED TO THE EXISTING STRUCTURE.
- c) DURING TESTING, MR SHMONHUN WAS NOT ON-SITE. THE BACKHOE CONTRACTOR WAS ASKED TO DIG OTHER LOCATIONS TO EXPLORE THE PROPERTY MORE THOROUGHLY. HE DECLINED, INDICATING THAT HE HAD INSTRUCTIONS FROM THE APPLICANT TO LIMIT HIS EXPLORATION TO THE PLANNED TEST AREA; OTHER LOCATIONS DID NOT SUIT THE APPLICANT'S INTEREST.
- d) PRIOR TO MAKING A WRITTEN RESPONSE THAT THE TEST FAILED, I DISCUSSED <sup>WITH MR SHMONHUN,</sup> THE PROSPECT OF ESTABLISHING A REPAIR AREA SUFFICIENT FOR THE NEEDS OF THE EXISTING HOUSE. HE INDICATED THAT THIS WAS OF NO INTEREST TO HIM. THE FAILURE LETTER WAS THEN GENERATED, SPECIFYING FAILURE TO MEET CRITERIA FOR SUBDIVISION OR NEW CONSTRUCTION.

SOMETIME LATER, WE RECEIVED A REQUEST FROM ANOTHER PERSON INDICATING A DESIRE TO ESTABLISH REPAIR AREA FOR THE EXISTING HOUSE. AT SOME POINT THE CONVERSATION SHIFTED FROM REMODELING THE EXISTING HOUSE TO REPLACING IT. ~~A FIRM DISTINCTION~~ WAS IT WAS AGREED THAT REPLACING THE EXISTING HOUSE WITH AN EQUIVALENT WOULD BE VIEWED BY THIS OFFICE IN THE SAME CONTEXT AS A RENOVATION. EQUIVALENT WAS OUTLINED TO BE THREE BEDROOMS OR LESS; ANY ADDITIONAL BEDROOMS WOULD BE REVIEWED AS NEW CONSTRUCTION WITH MORE STRINGENT SEPTIC REQUIREMENTS.

TESTS ON 11/2/88 IN A DIFFERENT LOCATION ESTABLISHED A LIMITED AMOUNT OF ACCEPTABLE SEPTIC AREA. APPROVAL WAS GRANTED TO REHABILITATE THE EXISTING HOUSE OR TO REPLACE IT WITH AN EQUIVALENT STRUCTURE.

AT ISSUE:

MR SHMORHUN FEELS HE HAS NOT BEEN TREATED FAIRLY, THAT THE NEW APPLICANT HAS BEEN ALLOWED TO ACCOMPLISH WHAT HE WAS DENIED.

RESPONSE:

ONLY THE CONTEXT OF EACH REQUEST JUSTIFIES THE DIFFERENCE IN RESPONSE. MR SHMORHUN'S REQUEST WAS EVALUATED ~~UNDER~~ RELATIVE TO SUBDIVISION REGULATION AND SEPTIC DISPOSAL REGULATION PERTAINING TO NEW CONSTRUCTION. THE SECOND REQUEST WAS EVALUATED RELATIVE TO STANDARDS FOR EXISTING HABITABLE DWELLINGS.

7/10/89 CWL

1 DEC 89 RH  
anytime

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

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation  Replacement   
Receipt # 45276  
Date 11/27/89  
Name of Installer Robert A. Thurman Telephone 854-6202  
License Number 17380  
Certified Well Pump Installer  Well Driller  Registered Plumber   
Name of Property Owner Spence Arrington Telephone 655-7880  
Subdivision \_\_\_\_\_ Lot # PAR 9A Well Tag # 10-88-0377  
Site Address 3200 Ivory Rd. West Friendship

Pump  
1. Type  
a. Deep well jet \_\_\_\_\_  
b. Shallow well jet \_\_\_\_\_  
c. Submersible  \_\_\_\_\_  
2. Make JUCUZZI  
3. Model # \_\_\_\_\_  
4. Capacity 7 GPM  
5. Pump exceeds well capacity Yes  No \_\_\_\_\_  
6. If Yes, is low pressure cutoff switch installed? Yes  No \_\_\_\_\_  
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors \_\_\_\_\_ Cable guards  Other \_\_\_\_\_  
Motor  
1. Horsepower 3/4  
2. RPM \_\_\_\_\_  
3. Voltage  
a. 110  \_\_\_\_\_  
b. 220 \_\_\_\_\_  
Pitless Adapter  
1. Make JUCUZZI  
2. Model # \_\_\_\_\_  
3. Depth \_\_\_\_\_  
Tank  
1. Capacity \_\_\_\_\_  
2. Pressure relief valve? \_\_\_\_\_  
Piping  
1. Type Polyethylene  
2. Size 1"  
3. NSF and/or BOCA Code approved \_\_\_\_\_  
4. Depth of supply line \_\_\_\_\_  
Well data  
1. Depth \_\_\_\_\_ ft.  
2. Yield \_\_\_\_\_ GPM  
3. Static water level \_\_\_\_\_ ft.  
4. Will water supply be disinfected by installer? \_\_\_\_\_

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

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

Signature of Applicant: Robert A. Thurman

Date: Nov. 25, 1989

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

PRESSURE TANK NOT YET INSTALLED RH  
HD-215

B 1 6821

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

40-88-0377

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

please print or type

fill in this form completely

Date Received (APA)

01/13/89

OWNER INFORMATION

CAPITANO ANTHONY

4280 TENDRKS RD

Dayton MD 21076

B 3

LOCATION OF WELL

HOWARD

56 REMAKER PROF

SECTION LOT TAX MAP 22 PARCEL 19

CIEMEL

MILES FROM TOWN (enter 0 if in town) 1 MI

DRILLER INFORMATION

FRANK-DELPH 453

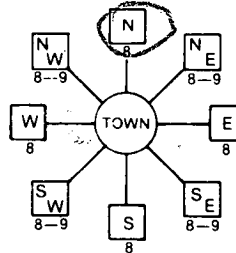
FRANK-DELPH-Well Drillers Inc.

18234 Penn Shop Rd Marry

Frank Delph 1/13/89

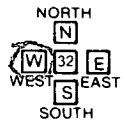
B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



W IVORY

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD 400

ENTER FT or MI 400

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

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

Howard A-41662

STATE SIGNATURE DATE ISSUED

01/13/89

NORTH GRID 805000 EAST GRID 0527000

APPROXIMATE DEPTH OF WELL 200 FEET

APPROXIMATE DIAMETER OF WELL 6 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

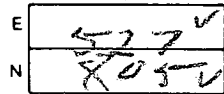
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)

- 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 DEEPEIN AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE)

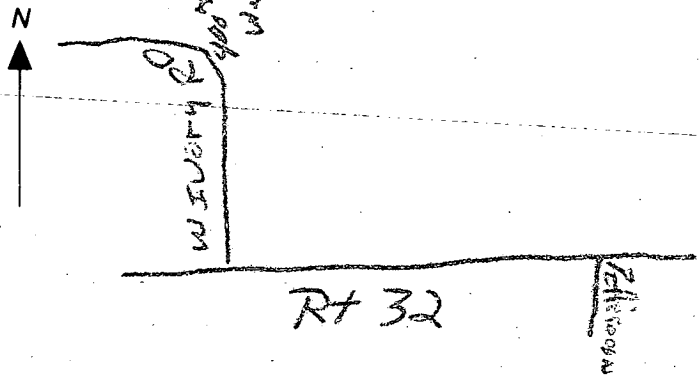
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

WRITE THE BOX NUMBER FROM THE MAP HERE



DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



Not to be filled in by driller (OEP USE ONLY)

APPROP. PERMIT NUMBER GAP

FORCE SA PERMIT No. 40-88-0377

SPECIAL CONDITIONS

C1 6780 SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

COUNTY NUMBER A41662

DATE Received 011389

DATE WELL COMPLETED 011699

Depth of Well 145 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-88-0377

OWNER Capitano Anthony Jr. STREET OR RFD 1404 R.D. TOWN Glenwold SUBDIVISION Shoemaker Prop. SECTION Parcel 19 LOT 19 my 22

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), Check if water bearing. Rows include Top Soil, Shale, MIKA, Sandstone, MIKA, Sandstone, MIKA.

GROUTING RECORD form: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL CEMENT CM, BENTONITE CLAY BC, NO. OF BAGS 6, NO. OF POUNDS 660.

CASING RECORD form: MAIN CASING TYPE PL, Nominal diameter 6, Total depth of main casing 32.

OTHER CASING (if used) form: diameter inch, depth (feet) from to.

SCREEN RECORD form: screen type or open hole HO, DEPTH (nearest ft.) 28.

SCREEN RECORD table: SLOT SIZE 1, 2, 3; DIAMETER OF SCREEN (NEAREST INCH).

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION"

DRILLERS IDENT. NO. 453

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

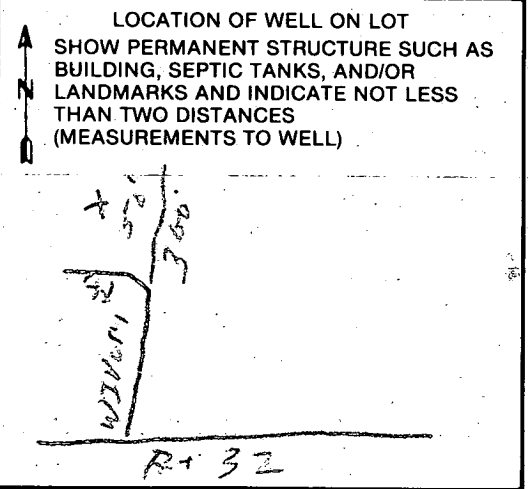
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

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.), WQ, TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMPING TEST form: HOURS PUMPED 3, PUMPING RATE 10, METHOD USED TO MEASURE PUMPING RATE Bucket, TYPE OF PUMP USED S (submersible).

PUMP INSTALLED form: DRILLER WILL INSTALL PUMP YES (NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE.



C1 **6780** SEQUENCE NO. (DENV USE ONLY)  
 1 2 3 (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 **A41662**

DATE RECEIVED **011367** DATE WELL COMPLETED **011699** DEPTH OF WELL **22 145 28** (TO NEAREST FOOT)  
 PERMIT NO. FROM "PERMIT TO DRILL WELL" **40-88-0377**

OWNER **Capitono Anthony** STREET OR BED **1000 R.I.** TOWN **Alexandria**  
 SUBDIVISION **Shirley Park Prop** SECTION **Parcel 14** LOT **19**

**WELL LOG**  
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing
	FROM	TO	
Top Soil	0	2	
Shale	2	20	✓
Mika	20	50	✓
Sandstone	50	55	✓
Mika	55	70	
Sandstone	70	75	✓
Mika	75	145	

**GROUTING RECORD**  
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**  
 TYPE OF GROUTING MATERIAL  
 CEMENT **CM** BENTONITE CLAY **BC**  
 NO. OF BAGS **6** NO. OF POUNDS **600**  
 GALLONS OF WATER **36**  
 DEPTH OF GROUT SEAL (to nearest foot)  
 from **0** ft. to **38** ft.  
 (enter 0 if from surface)

**CASING RECORD**  
 casing types insert appropriate code below  
**ST** **CO** **PL** **OT**  
 STEEL CONCRETE PLASTIC OTHER  
 MAIN CASING TYPE **PL** **G** **32**  
 Nominal diameter (nearest inch) **6** Total depth of main casing (nearest foot) **32**

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

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

**C2**

DEPTH (nearest ft.)

EACH SCREEN	DEPTH (nearest ft.)
1	<b>HO</b> <b>38</b>
2	
3	
4	
5	
6	
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50	
51	

SLOT SIZE **2** **3**

DIAMETER OF SCREEN **6** (NEAREST INCH)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED  
**A**  
**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. **453**

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)  
*Frank DeJish*

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

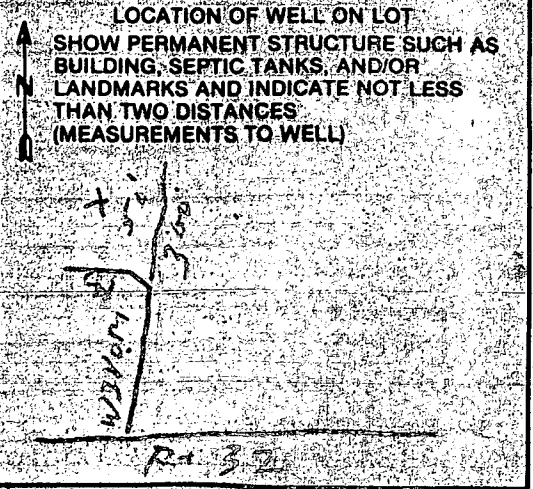
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

**C3**

**PUMPING TEST**  
 HOURS PUMPED (nearest hour) **3**  
 PUMPING RATE (gal. per min. to nearest gal.) **14**  
 METHOD USED TO MEASURE PUMPING RATE **bucket**  
 WATER LEVEL (distance from land surface) BEFORE PUMPING **5**  
 WHEN PUMPING **17**  
 TYPE OF PUMP USED (for test)  
**A** air **P** piston **T** turbine  
**C** centrifugal **R** rotary **O** other (describe below)  
**J** jet **S** submersible

**PUMP INSTALLED**  
 DRILLER WILL INSTALL PUMP YES  NO   
 IF DRILLER INSTALLS PUMP THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE  
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:   
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) **31**  
 PUMP HORSE POWER **37**  
 PUMP COLUMN LENGTH (nearest ft.) **43**  
 CASING HEIGHT (circle appropriate box and enter casing height)  
**+** above } LAND SURFACE (nearest foot)  
**-** below }



PROPOSED ELEVATIONS

FF.	100.2± ✓
GAR.	98.9± ✓
C/E	91.2± ✓

PROPOSED S.H.C. ELEVATIONS

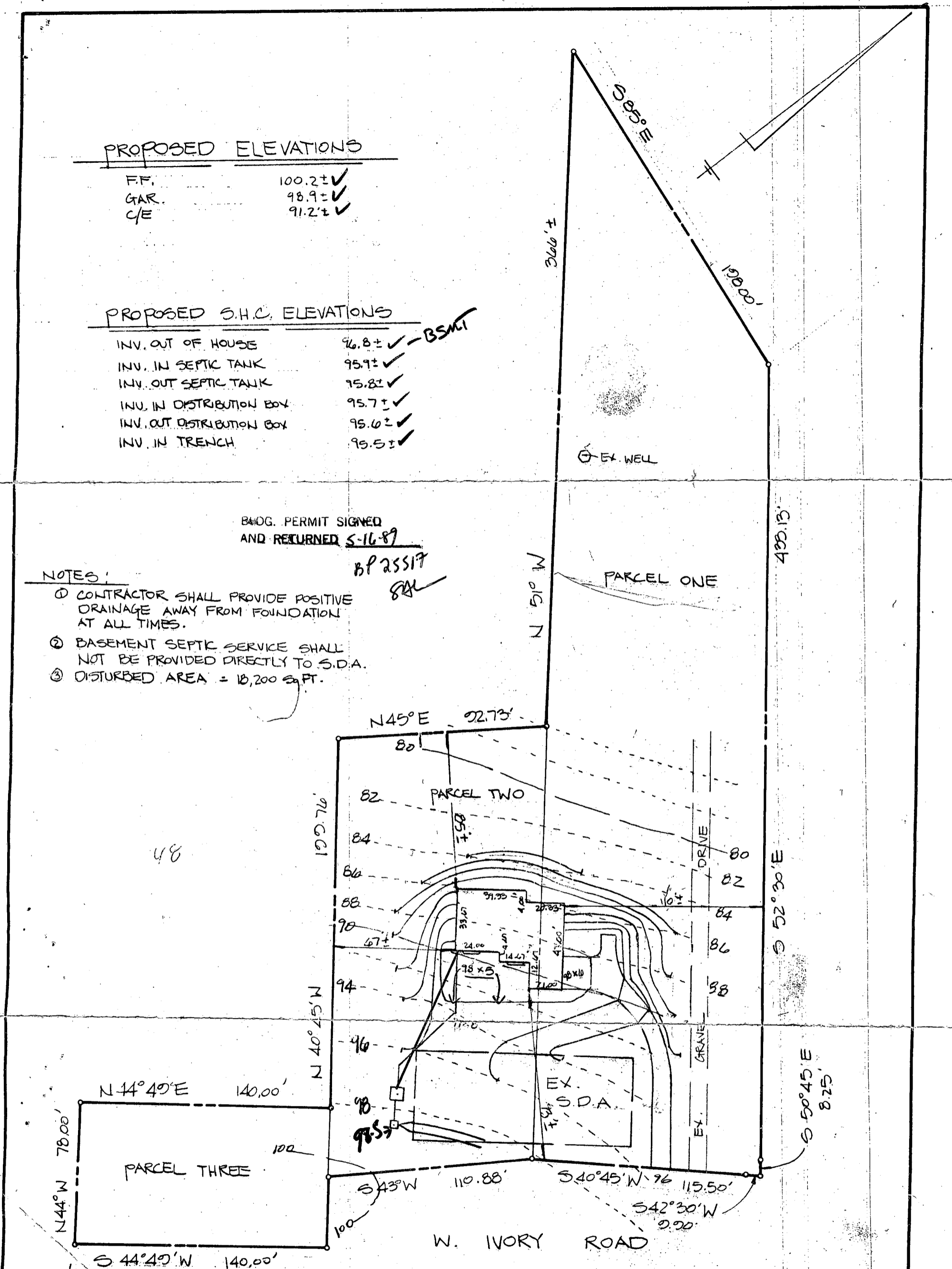
INV. OUT OF HOUSE	96.8± ✓	- BSMT
INV. IN SEPTIC TANK	95.9± ✓	
INV. OUT SEPTIC TANK	95.8± ✓	
INV. IN DISTRIBUTION BOX	95.7± ✓	
INV. OUT DISTRIBUTION BOX	95.6± ✓	
INV. IN TRENCH	95.5± ✓	

BUDG. PERMIT SIGNED  
AND RETURNED 5-16-89

BP 25517  
SKL

NOTES:

- ① CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM FOUNDATION AT ALL TIMES.
- ② BASEMENT SEPTIC SERVICE SHALL NOT BE PROVIDED DIRECTLY TO S.D.A.
- ③ DISTURBED AREA = 18,200 SQ. FT.



SITE PLAN

FOR

#3200 W. IVORY ROAD

HOWARD CO., MD

SCALE: 1"=50'  
REVISED 5/15/89 AS PER. HOWARD CO. HEALTH DEPT.  
MAY 3, 1989

James W. McKee, MD Reg. No. 9012 Date 5/4/89

**MCKEE & ASSOCIATES, INC.**  
CIVIL ENGINEERS - LAND SURVEYORS  
Shawan Place • 5 Shawan Road  
Hunt Valley, MD 21030  
(301) 527-1555

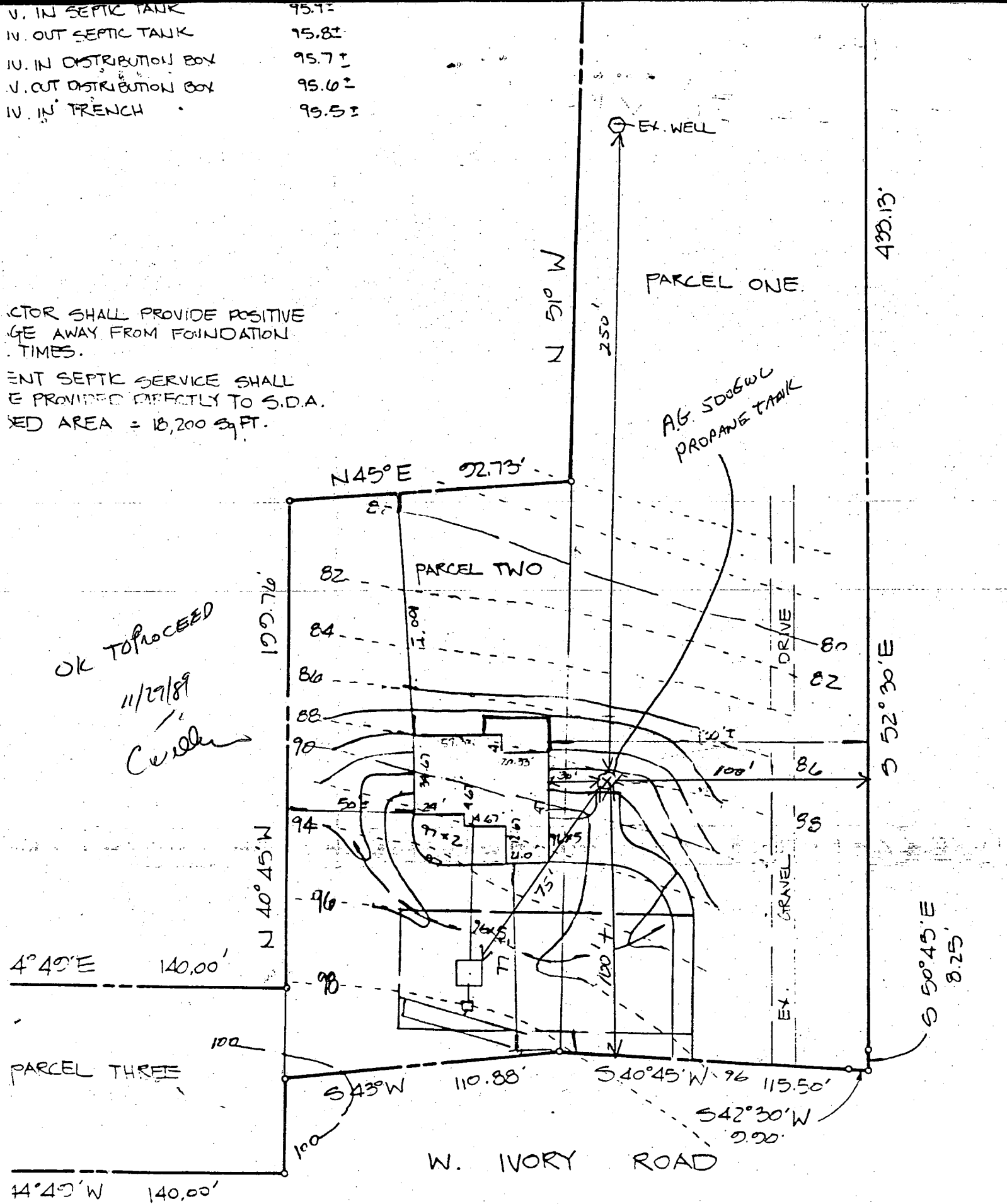


- IV. IN SEPTIC TANK 95.9±
- IV. OUT SEPTIC TANK 95.8±
- IV. IN DISTRIBUTION BOX 95.7±
- IV. OUT DISTRIBUTION BOX 95.6±
- IV. IN TRENCH 95.5±

CTOR SHALL PROVIDE POSITIVE  
GE AWAY FROM FOUNDATION  
. TIMES.

ENT SEPTIC SERVICE SHALL  
E PROVIDED DIRECTLY TO S.I.A.  
ED AREA = 18,200 Sq. FT.

OK TO PROCEED  
11/29/89  
C. Miller



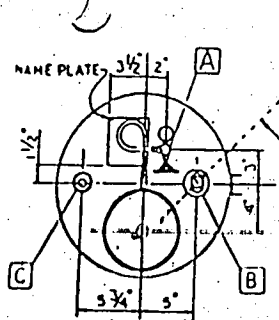
SITE PLAN

FOR

#3200 W IVORY ROAD

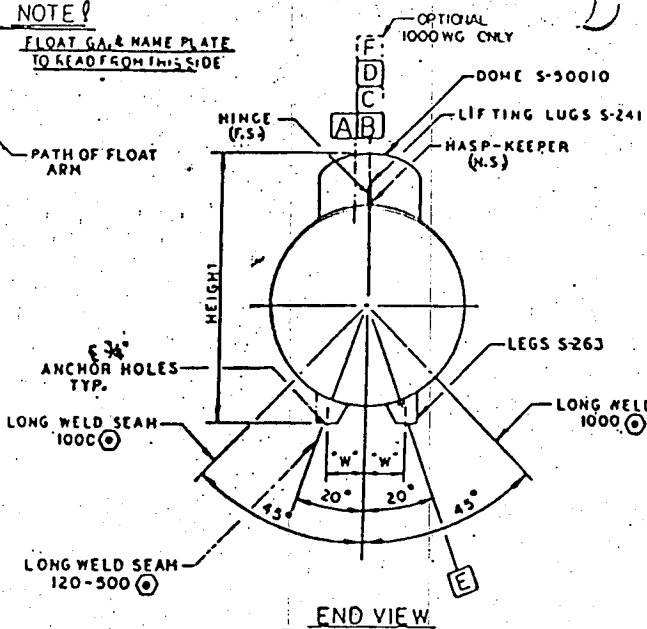
K 5/4/89  
MD Reg. No. 9012 Date



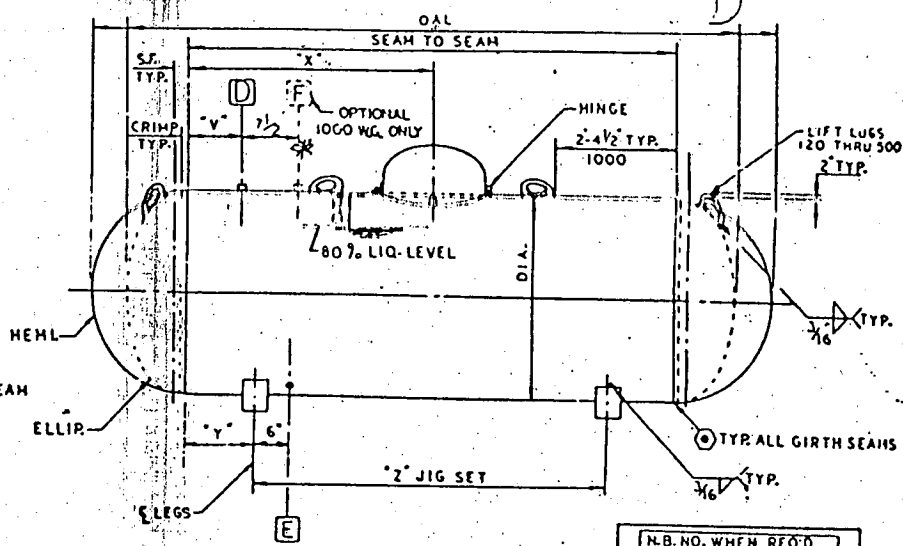


FITTING LAYOUT UNDER DOME

NOTE 1  
FLOAT GA. & NAME PLATE TO READ FROM THIS SIDE

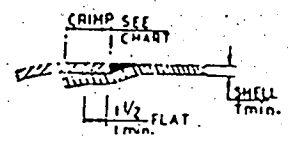


END VIEW



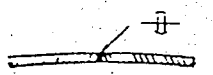
SIDE VIEW

NOTE 2 REGULATOR - PLATE OPTIONAL

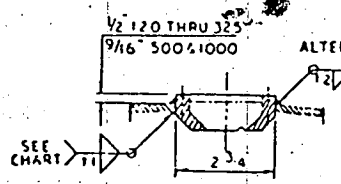


OFFSET JOINT CONFORMS TO ASME CODE SECTION VIII DIV. 1 FIG UW-13.1 (M)

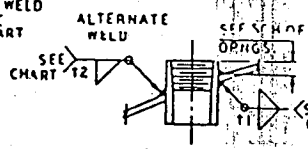
DETAIL OF GIRTH SEAM



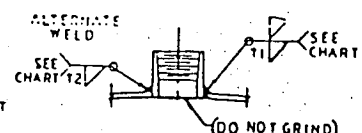
LONG SEAM DETAIL



DETAIL OPENING MF "B"



WEED ATTACHMENT DETAIL OPENINGS "A", "C", "D"



WELD ATTACHMENT DETAIL OPENING "E"

N.B. NO. WHEN REQ'D.

TRINITY INDUSTRIES, INC.

750 P.S.I. @ 125°F

INSPECTION STAMP

SEE ORDER

AG 197 80%

DETAIL OF NAMEPLATE MOUNT ON STANDARD BRACKET S-502

- INSTALLATION**
1. WHEN PRESS. GA. IS NOT REQ'D. INSTALL 1/4" W.P.T. PLUG IN PLACE OF 1/4" W.P.T. 0-3000-87M. HT. PRESS. GA. IN MULTIVALE.
  2. SEE DETAIL OPENING MF "B".
  3. THREADS ON ALL FITTINGS TO BE COATED WITH APPROVED COMPOUND BEFORE INSTALLING.
  4. MULTIVALE TO BE PROVIDED UNLESS DIP TUBE TO MAINTAIN "2.7" DIA. AS NOTED IN DIMENSION CHART.
  5. FLOAT GA. TO BE INSTALLED UPWARD AND AS FAR OFF OF LONGITUDINAL CENTERLINE OF TANK AS INDICATED IN FITTING LAYOUT.
  6. REGULATOR - PLATE OPTIONAL

SCHEDULE OF DIMENSIONS

TANK SIZE	MODEL NO.	DIA.	OAL	SEAM TO SEAM	HEIGHT	HEAD TYPE	HEAD THK.	S.F.	SHELL THK.	SHELL PLATE SIZE	SHELL CRIMP	V"	W"	X"	Y"	Z"	WELD 11	WELD 12	SS SURFACE AREA SQ. FT.	RELIEF REGD. CFM	RELIEF FURN. CFM	EST. WT. LB.	EST. WATER THRU G.P.M.	D.T. DIM.
120	A120	2400	5-7 1/4	4-4 1/8	2-10 1/2	ELLIP.	.1875	1 1/2	.1875	53-2 1/2 x 75 1/2	1 1/8	5"	5 3/16	2-2 1/8	8 1/8	3-0	3/16	3/8	.39	1078	1970	400	1000	6.1
150	A150	2400	7-0 3/8	5-9 3/8	2-10 1/2	ELLIP.	.1875	1 1/2	.1875	71-7 1/2 x 75 1/2	1 1/8	5 3/8	2-10 1/8	7 1/8	4-7	3/16	3/8	.48	1286	1970	470	1250	6.1	
250	A250H	3000	7-10 3/8	5-4 3/8	3-4 3/4	HEMI.	.1875	—	.234	66-9 1/2 x 72	1 1/8	10	6 3/8	2-8 3/8	4 1/8	4-7	1/4	.44	62	1580	1970	700	2063	7.8
325	A325H	3000	9-1 1/4	7-5 3/4	3-4 1/4	HEMI.	.1875	—	.234	51-7 1/2 x 94 1/2	1 1/8	10 1/8	6-7 1/2	5-8 1/2	1-3 3/8	4-7	1/4	.44	79	1930	1970	855	2708	7.8
500	A500H	3710	9-10 3/8	6-9 3/8	3-4 1/2	HEMI.	.2107	—	.293	83-1 1/2 x 117	1 1/8	11	7 1/2	3-4 1/2	10 1/2	5-0	3/16	.52	98	2300	2620	1198	4165	9.8
1000	A1000H	4020	12-6 1/2	12-8 3/8	4-3 3/4	HEMI.	.2306	—	.220	77-2 1/2 x 128	1 1/8	11	8 1/8	5-3 3/8	10-4	9-0	3/8	.57	174	3684	4325	2335	8333	10.5

- MATERIAL SPECIFICATIONS**
1. DESIGN PER LATEST EDITION ASME CODE SECTION VIII DIV. 1
  2. DESIGN PRESSURE 250 PSI - HYDROSTATIC TEST PRESSURE 375 PSI
  3. DIP TUBE TO BE PROVIDED UNLESS DIP TUBE TO MAINTAIN "2.7" DIA. AS NOTED IN DIMENSION CHART.
  4. JOINT EFFICIENCY: 1.0 - SHELL LONGITUDINAL SEAM, 0.85 - HEAD, 0.85 - ELLIP. HEAD
  5. EXTENSION OF WELD TO BE CRIP PLATED, FINED, AND FINISH PAINTED AS SPECIFIED ON ORDER.
  6. EXTENSION OF WELD TO BE CRIP GRIND WITH FILTERED AIR & DRY TO A MINIMUM OF 15% HUMIDITY AFTER FITTINGS ARE INSTALLED, AND SEALED WITH 75 PSI AIR PRESSURE FOR 15 MIN.

SCHEDULE OF OPENINGS

TANK SIZE	MARK	PLAN	SIZE	TYPE	HT. REGO	FISHER	SERVICE	O.D. CPLG.	D.S. PROJ.	SEE GEN. NOTES
ALL	F	1	1/4	3000# H.CPLG.	PLUG	PLUG	VAPOR	2 1/4	3/8	3.6
ALL	E	1	1 1/4	3000# H.CPLG.	86850	H-275	RELIEF VA.	2 1/4	3/8	3
500	D	1	1"	3000# H.CPLG.	86846	H-250	RELIEF VA.	1 3/4	3/8	3
ALL	C	1	1 1/4	3000# H.CPLG.	7579	D-144	RELIEF VA.	1 3/4	3/8	3
ALL	B	1	JR	CARDAPT	JR FLOAT GA.		FLOAT GA.	SEE DETAIL	2.5	
ALL	A	1	3/4	6000# H.CPLG.	75567N	L-677	MULTIVALE	1 3/4	3/8	13.4

ALL FOR B.L. TANKS

HAVE OPTIONAL CRIMP FLANGED

REFERENCE DWGS. 1024

TRINITY INDUSTRIES, INC.

DALLAS TEXAS

PROPERTY OF TRINITY INDUSTRIES, INC. AND NOT TO BE REPRODUCED WITHOUT THEIR PERMISSION

SEE ORDER

ROCKY MT. STD. 1/6 PROPANE

DOMESTIC TANKS 120 THRU 1000 W.G.

ROLAND

12-2-'0

11/11/11

12-23-70

SEE ORDER

5-42102