

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 50380F

A REPAIR

DISTRICT _____

DATE 10/7/94

DATE SYSTEM APPROVED 10/24/94

INSPECTOR C.B.V.

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
~~461-9933~~

362679

INDEXED

Jack Fyock Septic Service _____ IS PERMITTED TO INSTALL _____ ALTER

ADDRESS 13775 Triadelphia Road Glenelg, Maryland 21737 PHONE 988-9270

SUBDIVISION FOREST HILLS LOT 19 ROAD 5668 Trotter Road

PROPERTY OWNER Mr. Wynne

ADDRESS 5668 Trotter Road
Clarksville, Maryland 21029

SEPTIC TANK CAPACITY _____ GALLONS

NUMBER OF BEDROOMS 3

125 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 100' of trench plus (1) old trench

REPAIR - PURPOSE - SYSTEM HAS FAILED.

Call for inspection when ground is opened so sanitarian can recommend repair. 10/11/94

10/24 (See back please) CBV

PLANS APPROVED BY CBV at site for C.W. DATE 10/24/94

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 Boo138161 GARAGE - BEDROOM - PORCH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

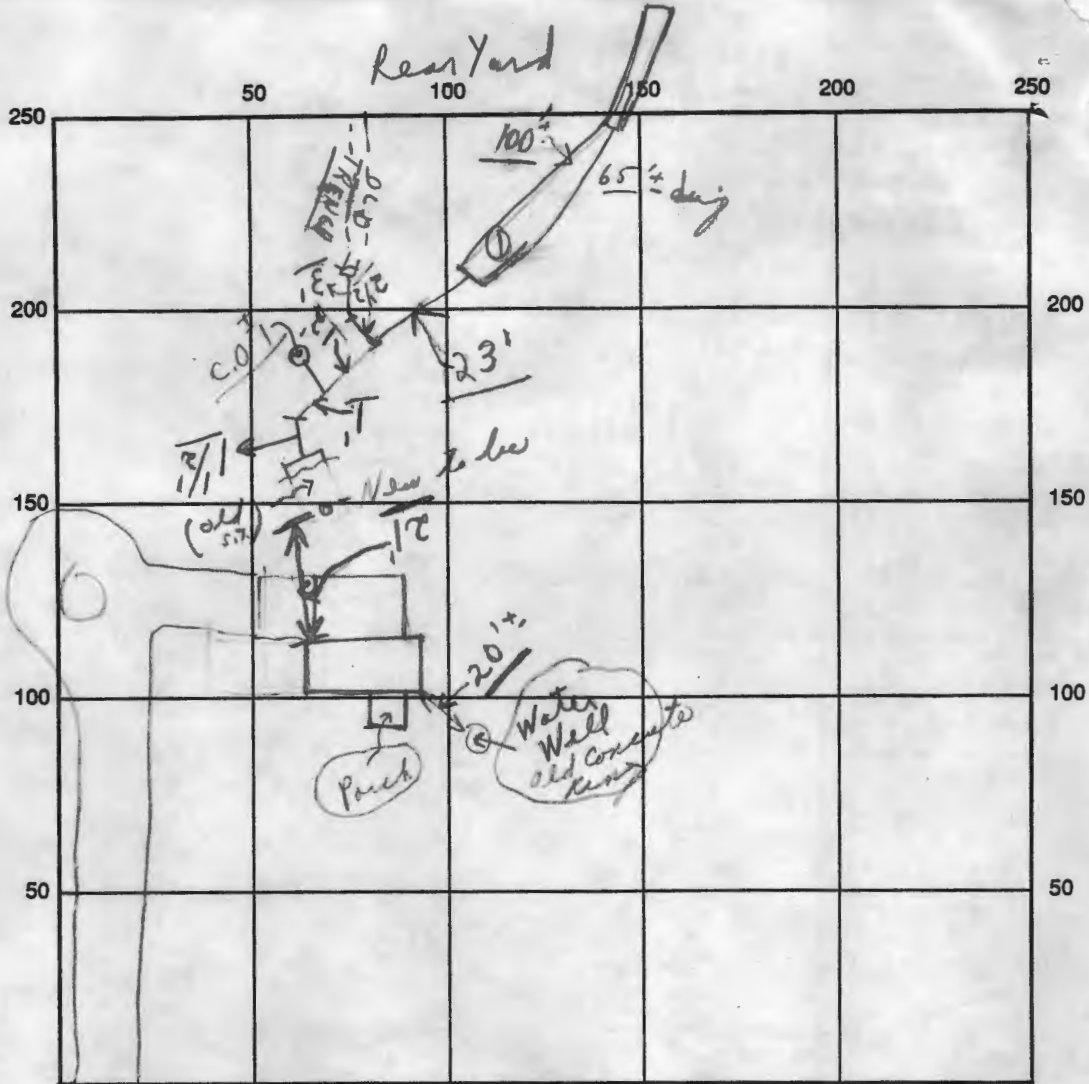
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

P 50380F

**BUILDING PERMIT SIGNED
AND RETURNED** 9/11/2002



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL Essety CLEANOUTS S,T (New) / C.O. #1 05
 DISTRIBUTION BOX LEVEL (Not used)
 DRAIN FIELD/TITLE DEPTH 5' to 7' FT. TRENCH WIDTH 3 FT. INLET DEPTH 3' FT.
 EFFECTIVE GRAVEL DEPTH 2 1/2' to 5' FT. TOTAL LENGTH 100 ± FT. plan New ↑
 NUMBER OF TRENCHES 1 ONE SIDEWALL/BOTTOM AREA 300⁺ SQ. FT. (plus old syst 1 Trench)
 DRYWALL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.
 ABSORBENT AREA 300⁺ SQ. FT. (1 Trench of old system)

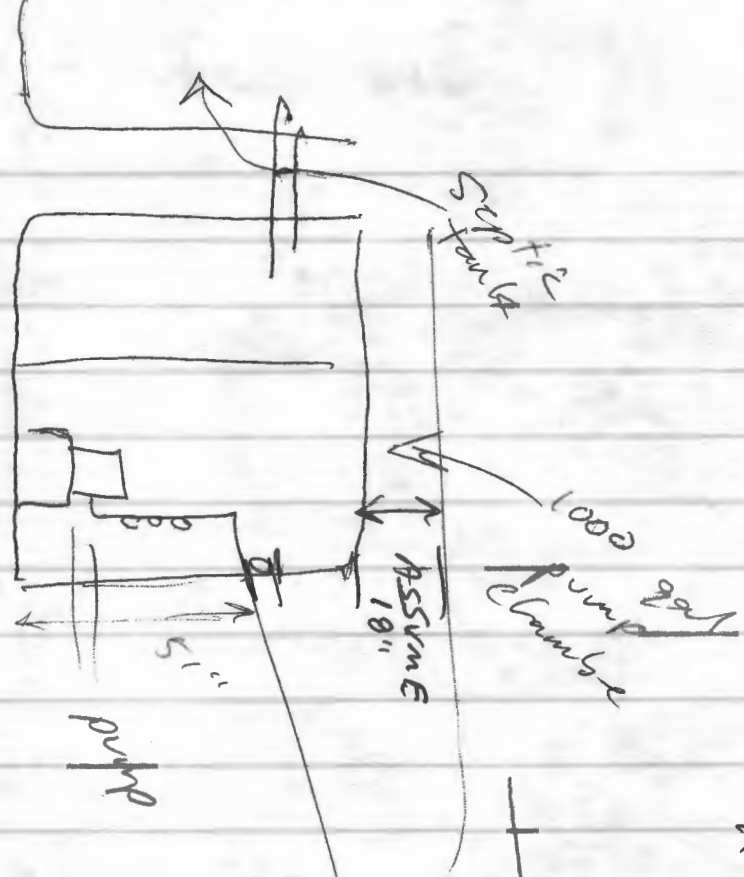
REMARKS: Final 10/24/94 - Abandoned old trench and used old and
material as site; OK to store logs, etc

DATE SYSTEM APPROVED 10/24/94 INSPECTOR Charles B. [Signature]

78" 6/5

6.5 ~~8.2~~
5.2

1107	static
3	friction in lateral
2'	discharge lateral
2'	friction



1500 gal

framed
backwards

130
124 g
3' force main

5.2' e/w
f.m.

5.2
+ 1.5

$$B' \text{ } A_{\text{m}} = 1.28 \text{ } / \text{ } 100' = 1.644$$

$$\frac{.332}{1.644} = 203$$

for Friction

Wynne - Trotter Rd

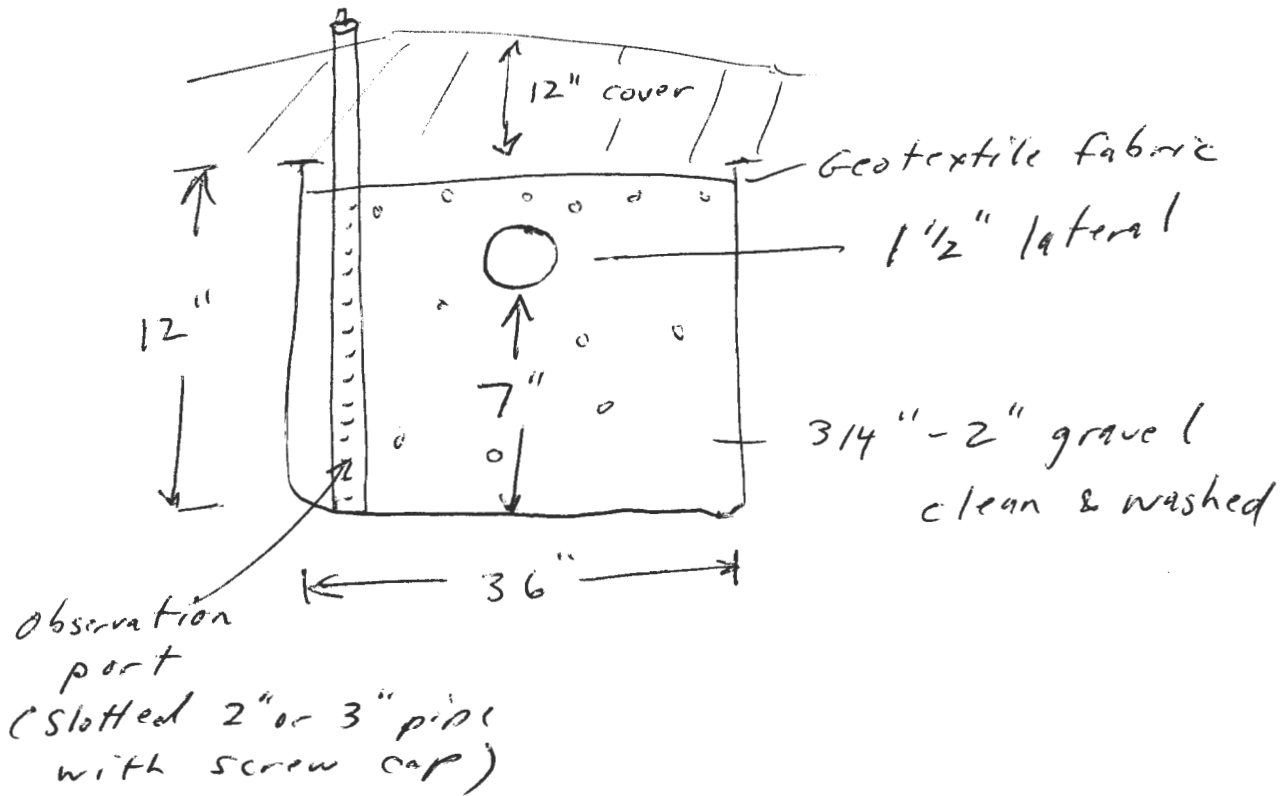
- For 600 gal @ 0.7 gpd/ft² = 857 ft²
- 857 ft² / 3' wide = 285 linear ft. trench
- 285 lf / 65 = 4.4 trenches - Use 5 trenches
- Use 1 1/2" laterals
- Use 3" force main
- Use 2" manifold

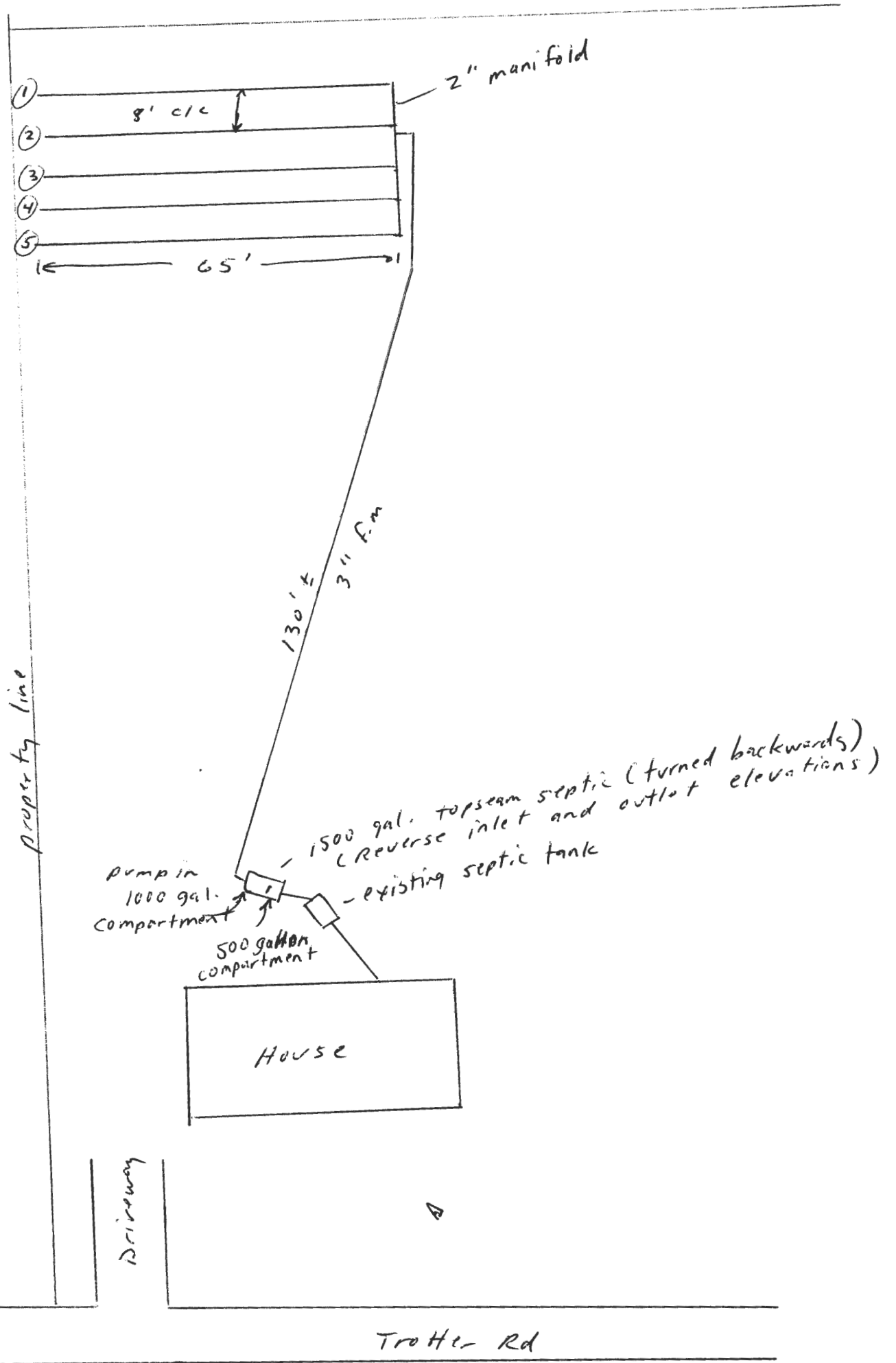
Use pump 71 gpm @ 18' TDH

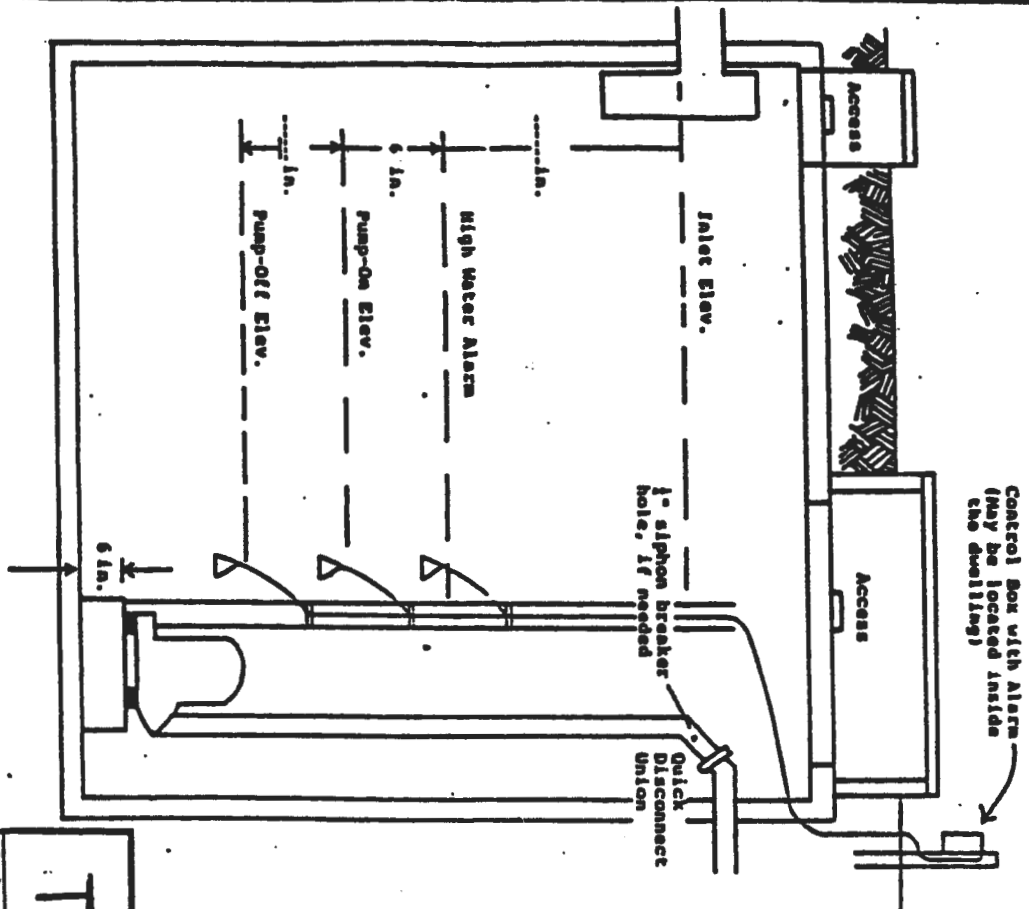
Wynne

Trotter Rd.

Trench Detail







PUMP AND PUMP CHAMBER NOTES

231 in³ per gal.
7.48 gal per ft³

1. The pump chamber must provide sufficient capacity to allow for storage of the float and any design flow between the high water alarm and the alarm of the first sump tank. It is also recommended that sufficient capacity be provided so that the pump can be set on a block and remain submerged at all times.
2. The pump chamber must be watertight and protected against buoyant forces and meet all horizontal separation distances in State and County regulations.
3. Chambers that are constructed with seams and joints above the high water table are required.
4. A 24-hour leakage test may be conducted to demonstrate watertightness prior to final construction approval.
5. A manhole access must be brought above the surface of the ground using watertight riser's.
6. The pump shall be capable of delivering 200 gpm at 2 ft. of head, which includes 2 ft. of head at the distal end of the laterals.
7. The use of a three float system to control pump-on, pump-off and the high water alarm is recommended. The float system must be capable of delivering the specified flow.
8. Measurements are based on inside dimensions of _____.
9. The control box or panel should be located outside of the pump chamber either in a waterproof enclosure or in the house.
10. The high water alarm must be wired on a separate electrical circuit.
11. A flow meter or event counter and elapsed time meter are required to determine gallons pumped to the system.
12. A test of the pumping system and distribution network will be required prior to covering. The force main can be partially covered as long as all valves, elbows, tees, etc. are visible. The test will require sufficient water available to activate the pump through several pumping cycles. Provisions to protect the pumping system and distribution network from erosion and sodimentation during construction should be made by contractor.

TYPICAL PUMPING CHAMBER

Scale: Not to Scale

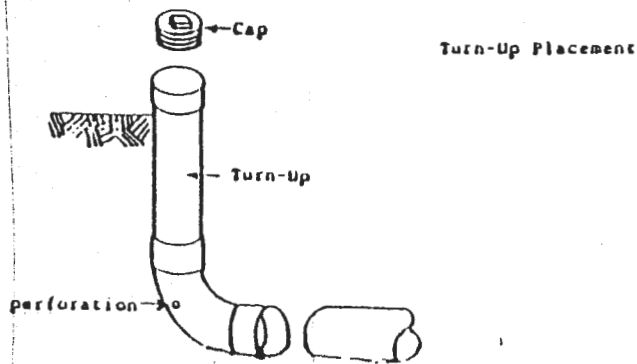
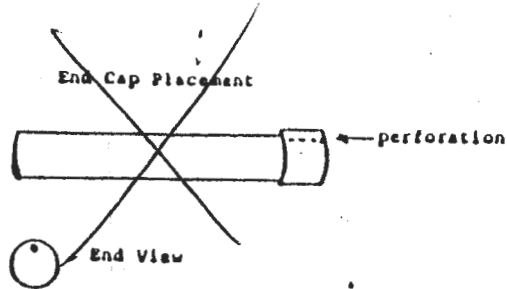
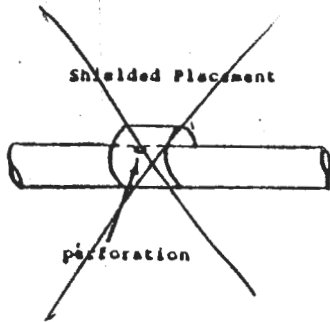
DATE:

DRAWN BY:
REVISED:

DEPARTMENT OF THE ENVIRONMENT

DRAWING NUMBER

ALTERNATIVES FOR PLACEMENT OF THE END PERFORATION IN A DISTRIBUTION LATERAL



Use on each lateral

DISTRIBUTION SYSTEM NOTES

1. End or Center feed distribution system
2. Number of laterals = 5
3. Length of laterals = < 65' (greater than 55')
4. Diameter of laterals = 1 1/2"
5. Space between laterals = 8'
6. Space between lateral and bed's edge = NA
7. Diameter of perforations = 5/16 in. & 1/4"
8. Space between perforations = Varies
9. Perforations per lateral = Varies
10. Perforation discharge for 5/16 in. dia. perforation at 2ft. of head = 1.63 gpm
11. Lateral discharge rate = 12.6 - 14.9 gpm
12. Total discharge rate = 71 gpm
13. A pump must be selected that can deliver 71 gpm at 16' head
14. Dose = 218 gal
15. Diameter of force main = 3"
16. Diameter of manifold = 2"

see chart for hole spacings and # of holes per trench

PRESSURE DISTRIBUTION SYSTEM

SCALE Not to Scale
DATE

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Wynne - Trotter Rd.

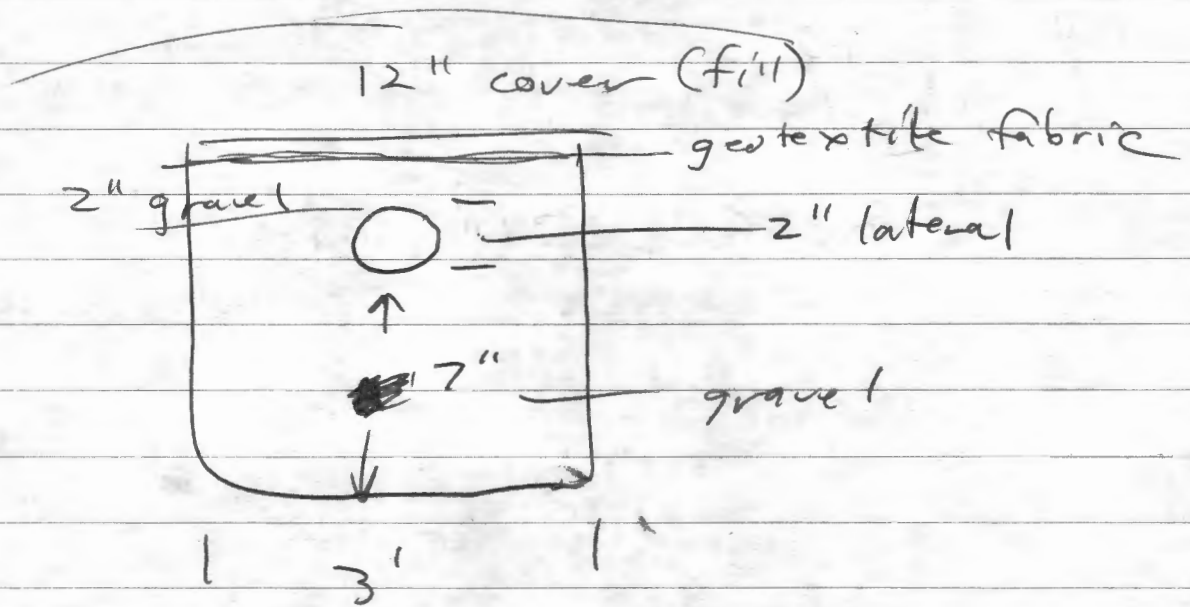
USE 1.5"
laterals

5 trenches 65' long, 3' wide
8' spacing c/c 12" TD w/cap

for 600 gpd @ 0.7 gpd/ft²

8% slope in disposal area

OR use 4 trenches @ 0.8



130' of 3"

32' of 2"

1 1/2" laterals = 10.6 / 100'

307 @ 10.6 / 100'

162 gal = 57 vol. lats
50
6

DOSE = 218 gal