CHESAPEAKE BAY SEPTIC TANK, LLC

Septic Installers' Local Distributor for Monarch Products Co. Inc.
Precast Concrete Products

Siphons

SRT-500	500 Gallon Rectangular Tank w/ 3" Siphon
SRT-750	750 Gallon Rectangular Tank w/ 3" Siphon
S-1000	1,000 Gallon Rectangular Tank
S-9	Siphon Tank 7' 5" inside Diameter
S-8A2	Multiple Siphons for Various Size Tanks

The Operation of Multiple Siphons - Info

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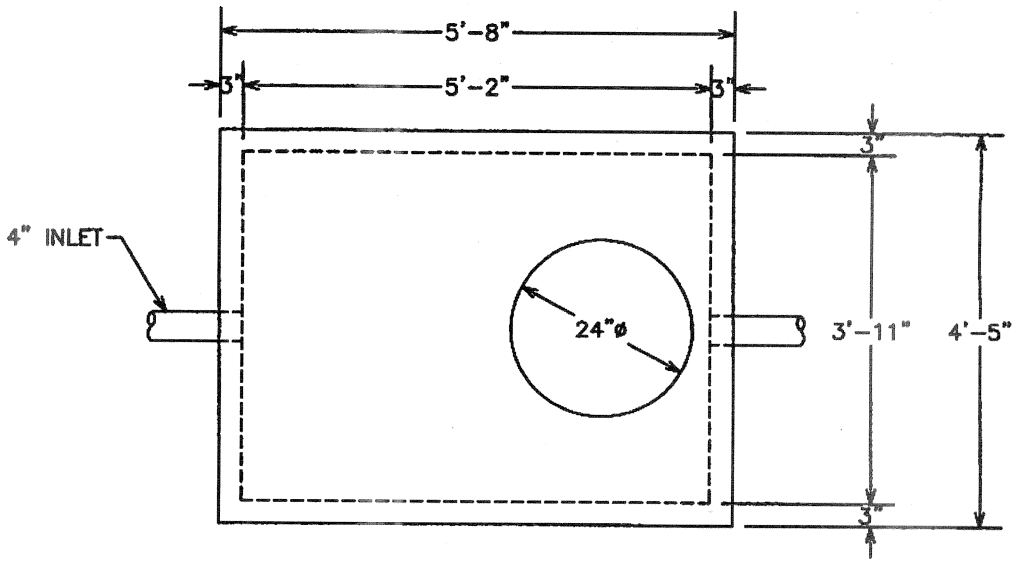

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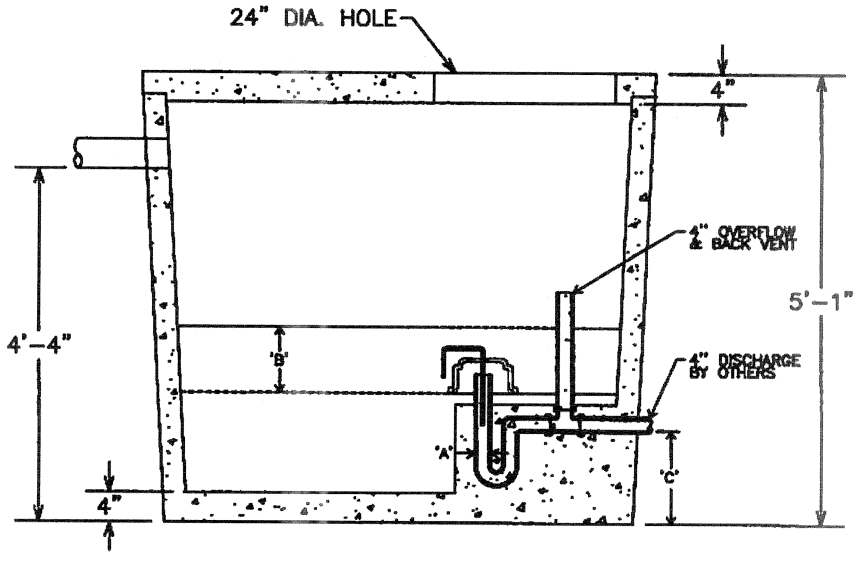

-SECTION-

DIMENSION TABLE

'A'	'B'	'C'	DOSE
3"	13"	15"	160 GAL.

500 GALLON RECTANGULAR TANK WITH 3" SIPHON

DWG. SRT-500

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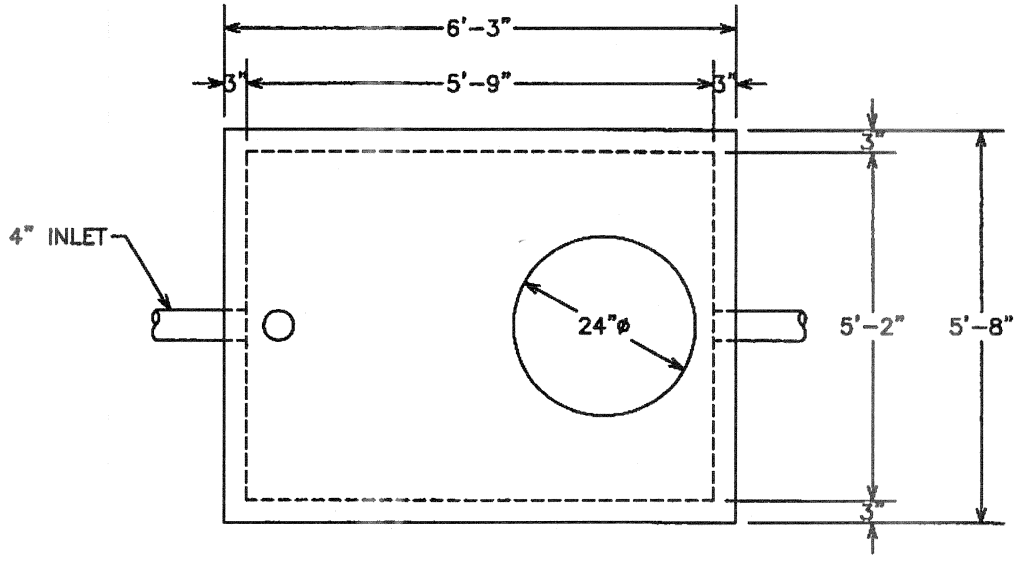

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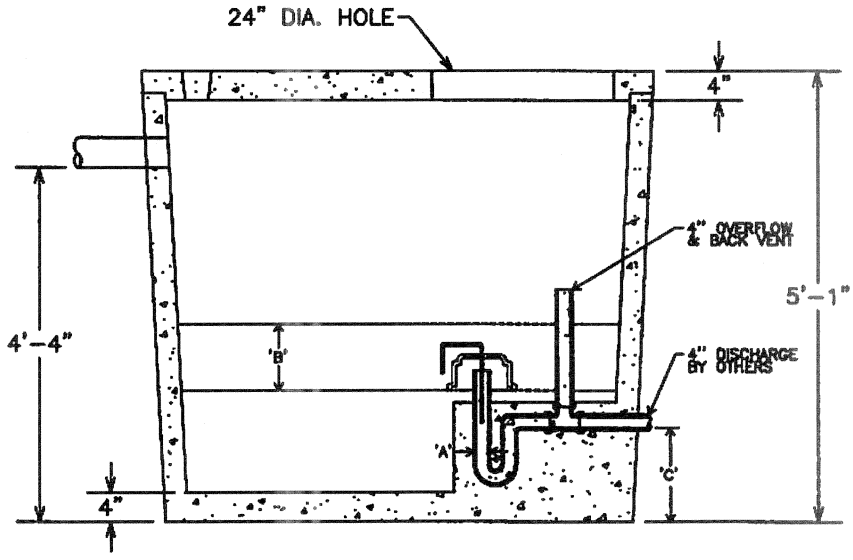

—SECTION—

DIMENSION TABLE

'A'	'B'	'C'	DOSE
3"	13"	15"	240 GAL.
4"	17"	15"	314 GAL.

750 GALLON RECTANGULAR TANK WITH 3" SIPHON

DWG. SRT-750

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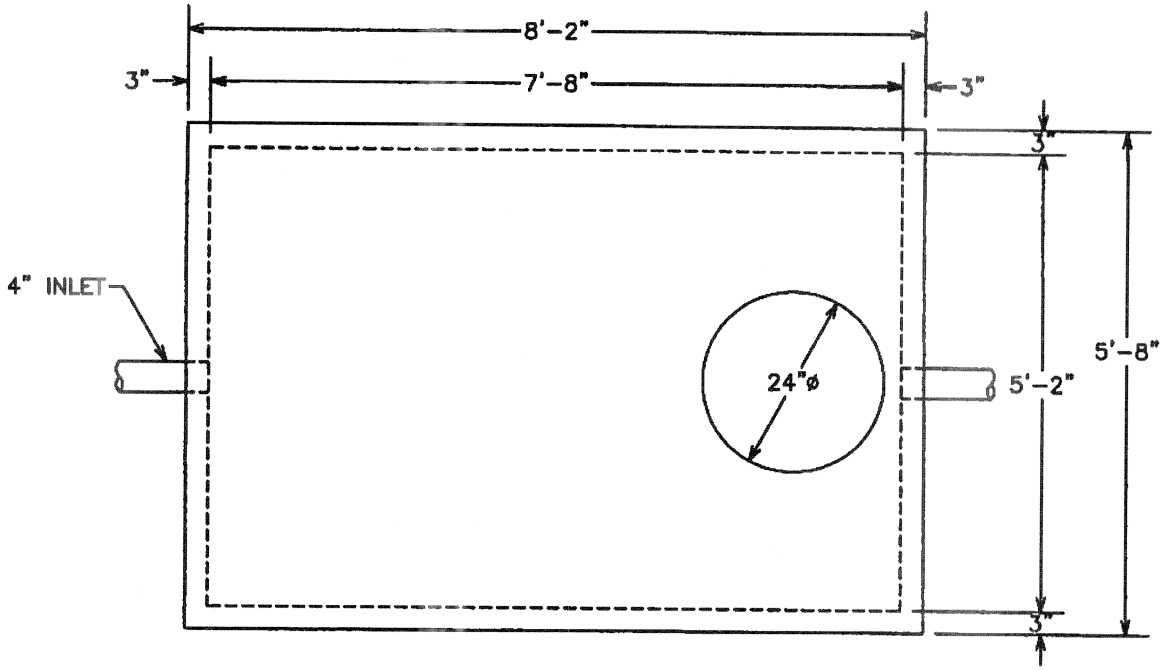

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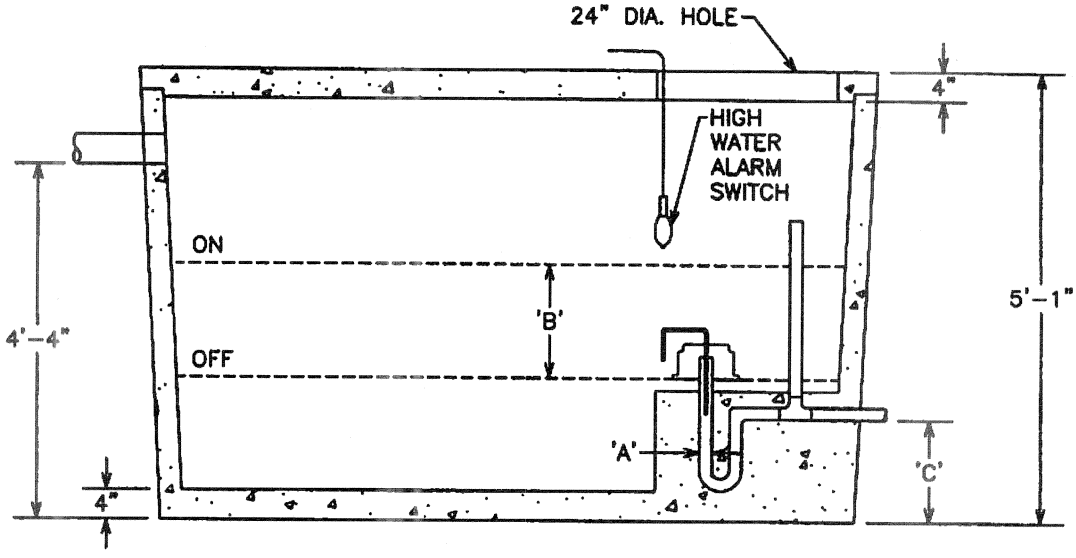

—SECTION—

DIMENSION TABLE

'A'	'B'	'C'	DOSE
3"	13"	16"	320 GAL.
4"	17"	19"	420 GAL.

1000 GALLON RECTANGULAR TANK

DWG. S-1000

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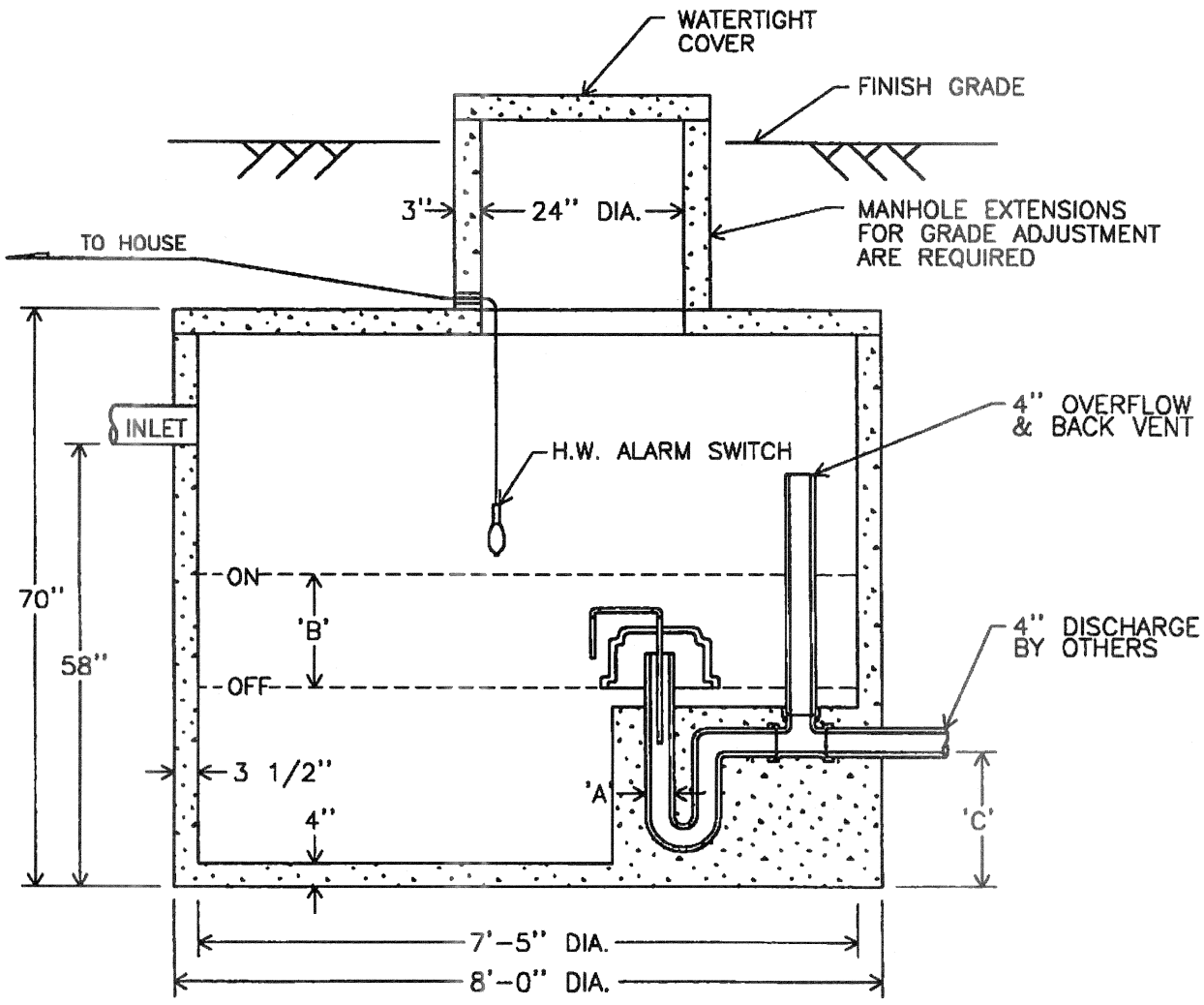
—IMPORTANT—

THE SIPHON TANK MUST BE SET LEVEL ON UNDISTURBED SOIL – FILL SIPHON TRAP WITH WATER PRIOR TO OPERATION



DIMENSION TABLE

'A'	'B'	'C'	DOSE
3"	13"	15"	350 GAL.
4"	17"	19"	458 GAL.

SIPHON TANK 7'-5" INSIDE DIAMETER

DWG. S-9

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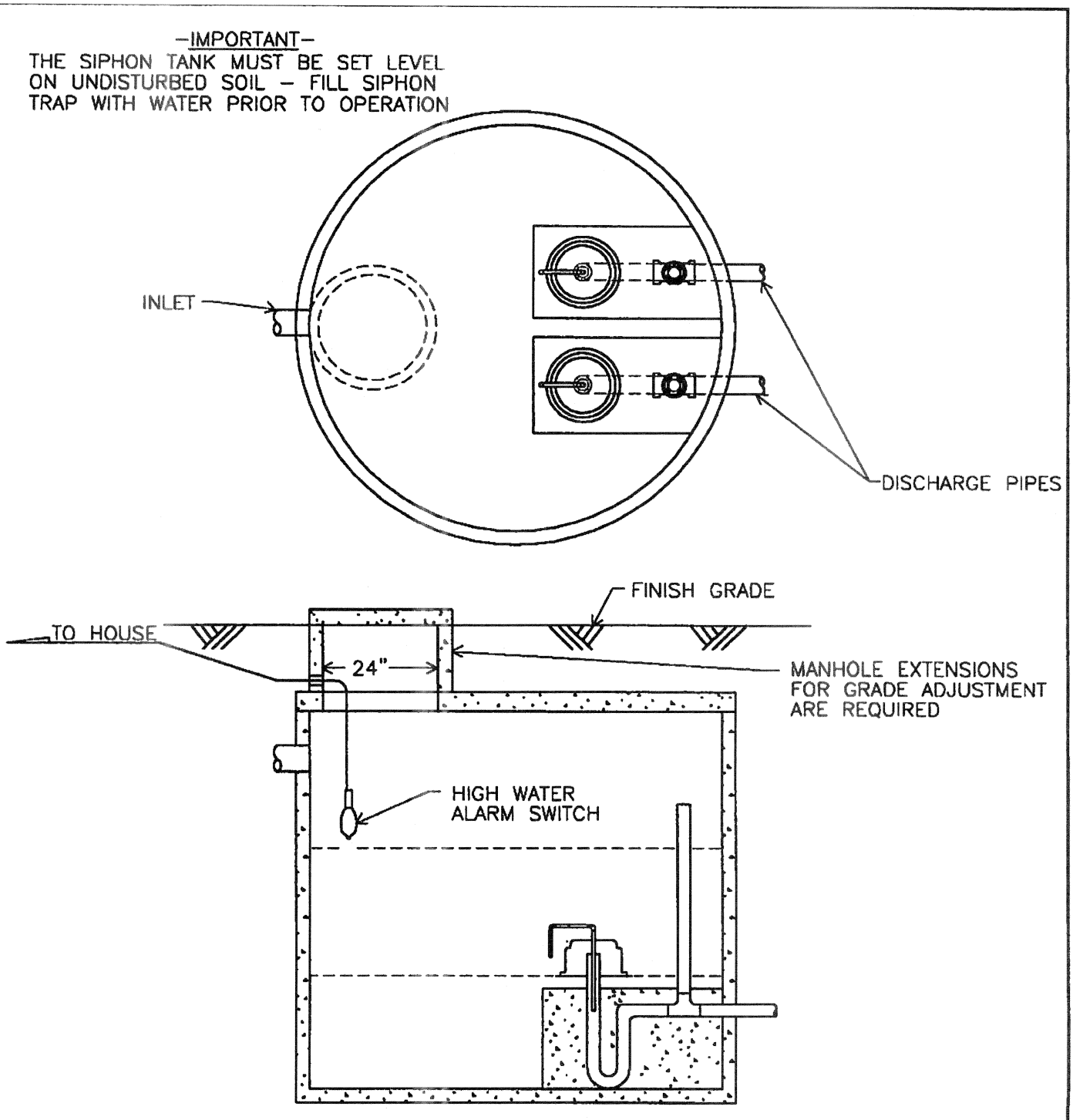

MULTIPLE SIPHONS FOR VARIOUS SIZE TANKS

DWG. S-8A2

CHESAPEAKE BAY SEPTIC TANK, LLC

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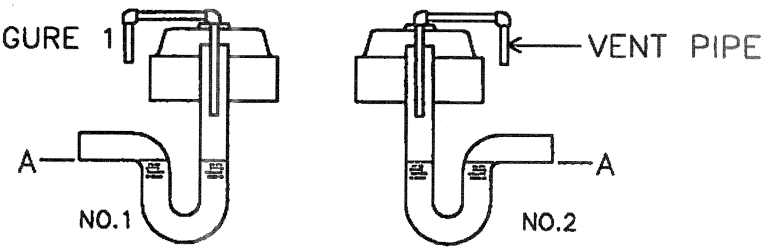
THE OPERATION OF MULTIPLE SIPHONS

After the main traps of the siphons are filled, the water level will be at "A" in both traps. (See Figure 1.)

FIGURE 1



As the dosing tank is allowed to fill and the water level in the tank reaches the end of the vent pipe, the air within the siphon is confined and put under pressure. This pressure gradually increases as the water in the tank rises and forces the water in the long legs of both traps down. (See Figure 2.) When the discharge line is reached, the trap seal is forced, thus releasing the air confined in the siphon and bringing it into operation.

FIGURE 2

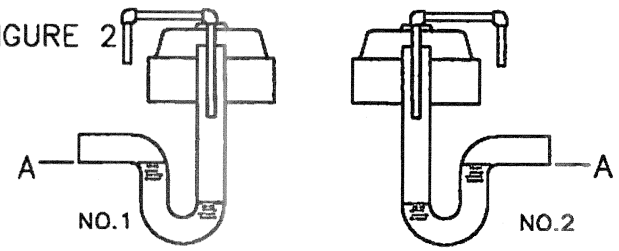
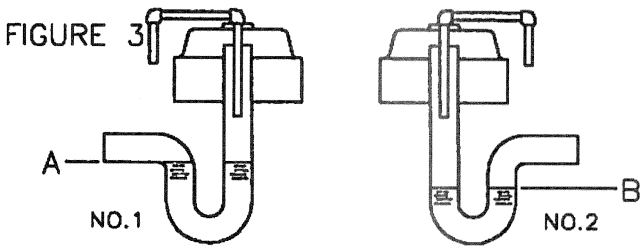


FIGURE 3



The tank is emptied to the bottom of the siphon bell. If both siphons were constructed and set perfectly, they would both be brought into operation at the same time; but any slight variation in the construction or elevation of setting will be sufficient to bring one siphon into operation in advance of the other.

As siphon No.1 empties the tank, the pressure on siphon No. 2 (or idle siphon) is released and atmospheric pressure is restored to the siphon. This release of pressure permits the water level in siphon No. 2 to fall back to a natural level. But about half of the water had been forced out of the trap on the upward rise and therefore, when it falls back, the levels in the idle trap will be at "B". (See Figure 3) Siphon No. 1 having just operated will be left with a full trap, while the other has a weakened seal.

Due to this weakened seal, the head of the siphon is such that it will be brought into operation in advance of the siphon with the full trap. No connecting piping or other devices are required to bring about this alternating feature and if siphons are set properly, no trouble should be experienced.

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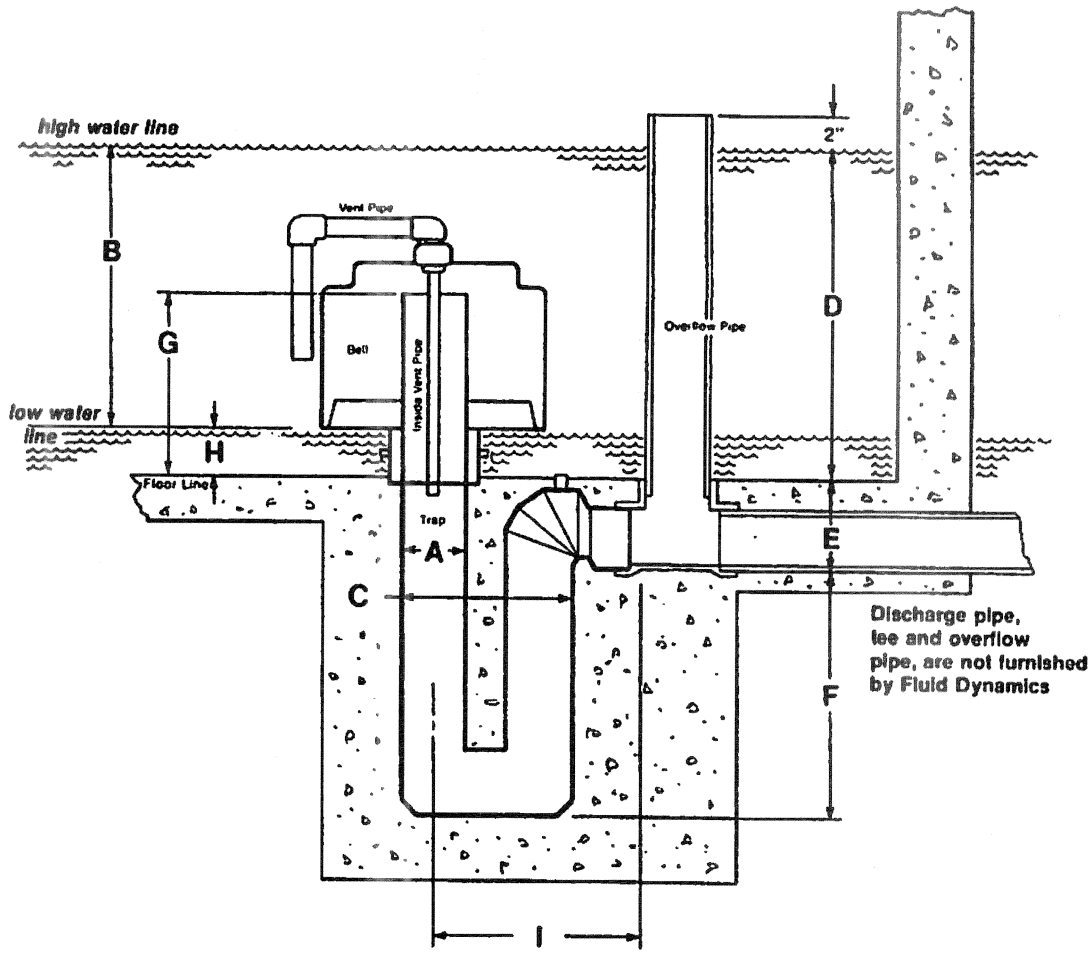

APPROXIMATE DIMENSIONS IN INCHES

Model Number		313	413	417	423	630	836
Siphon Diameter	A	3	4	4	4	6	8
Draw Down	B	13	13	17	23	30	36
Width of Trap	C	8	11	11	11	16	20
High Water Above Floor	D	16	16	20	26	33	39
Floor to Discharge	E	4½	4¾	4¾	4¾	11	8½
Trap Depth	F	11½	12	15	15	30	30
Height Above Floor	G	7½	9	11	16	10	20
Bottom of Bell to Floor	H	3	3	3	3	3	3
Trap to Discharge	I	10½	12	12	12	17	20
Average Discharge G.P.M.		72	140	150	160	450	900
Minimum Discharge Rate G.P.M.		48	100	100	100	350	450