JOE LINGLE'S QUICK STOP

Design flow rate:

A) Service Station @ 250gal/water closet or urinal
= 1 x 250 = 250 gpd

B) Store @ 120 gal/1000SF of retail sales area
= 4880SF x 120/1000 = 585 gpd

C) Food Stand (1) @ 50 gal/100SF of food stand floor space
= 240SF x 50/100 = 120 gpd

(2) Add per food employee 25 gal
= 1 employee x 25 = 25 gpd

D) Office at 25 gal/employee (100gpd minimum)
= 4 employees x 25 = 100 gpd

250
+ 585
+ 120
+ 25
+ 100
= 1080 gpd

Minimum Drainline Requirement=
1080 gpd / 0.25gpd/ft2 = 4320 SF / 3 = 1440 LF
Existing System = 300 LF

Minimum Septic Tank Liquid Capacity =
1.17(1080gpd) + 500 = 1764 gallons
Existing Septic Tank Liquid Capacity = 1500 gallons

A properly designed dosing siphon or pump shall be used for discharging sewage effluent into nitrification lines when the total length of such lines exceeds 750 linear feet.

Grease traps or grease interceptors shall be required at food service facilities, meat markets, and other places of business where the accumulation of grease can cause premature failure of a soil absorption system. The grease trap liquid capacity shall be at least two-thirds of the required septic tank liquid capacity.