

## OSSF DESIGN CRITERIA

**Site Address:** W. 16th Street & N. Canyon Ave., Odessa, Tx.

**On Site Sewage Facility (OSSF) Design:** 1 Commercial, With Water Saving Devices

### WASTEWATER VOLUME (Q)

Wastewater usage rate (Q)= 2 x 200 gpd = Q= 400 GPD

### SEPTIC TANK VOLUME (V)

V= 1250 + 0 V= 1250 GAL

TANK MINIMUM (V)		
Q<250 GPD	V= 750	GPD
Q=251<=350	V= 1000	GPD
Q=351<=500	V= 1250	GPD
Q=501<=1000	V= 2.5*Q	GPD
Q=>1001	V= 1750+.75Q	GPD

Proposed Tank to be 1x 1250 GAL installed

### DRAIN FIELD DESIGN

Drain field soil class= II Ra= 0.25  
sandy loam

Allowable Reduction 1

Drain field required: Absorptive Area Formula

(Q/Ra) = AA sq.ft.

AA= 1600 sq. ft.

SOIL TYPES
Ia= 0.50
Ib= 0.38
II= 0.25
III= 0.20
IV= 0.10

Minimum Panels Required= 1600 ÷ 5 = 320.0 linear feet

Area Required= 320.0 \* 0.6 = 192 area

Panels to be Installed= 192 ÷ 5 = 38.4 panels

Proposed Drain Field: Absorptive area, per Title 30. TAC 285, section 285.33 (b)(1)(A)(vii)(1)

Proposed Drain Field Area: Standard Bed 50 (L) x (W) 3

A = (LxW)+ 2(L+W)

A = 256 sq. ft.

Leaching Chamber Row Length (Lr): 200 feet

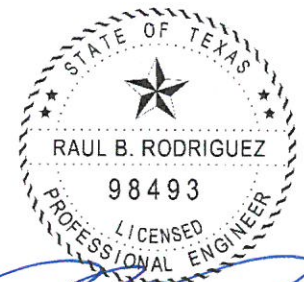
Leaching Chamber Panel Length (Lch): 5 feet

Proposed Number of Rows (r): 4 each

Number of Chamber Panels per Row: = (Lr) / (r) / (Lch)

Number of Chamber Panels per Row: = 10.0 = 10

Length of each Row: = 50 feet



*[Handwritten Signature]*  
2-25-19

**Sewer Line:** Building stub-out sewer line to septic tank to be 3" or 4" SDR 26PVC or Sch 40 PVC. Slope of the pipe shall be no less than 1/8" fall per foot of pipe, nor greater than 1/4" fall per foot of pipe.

**Cleanout:** A two-way sanitary cleanout shall be provided between the sewer stub out and the septic tank. Only sanitary type fittings constructed of PVC Sch 40 or SDR 26 shall be used on this section.

**Effluent Disposal Line:** The pipe from the tank to the leach field header shall be 3" or 4" SDR 35 PVC or SCH 40 PVC.