SUBSURFACE SEWAGE PROGRAM CLASSROOM EXERCISE #2 (PHASE 1)

The plan attached includes a septic system design for a 5-bedroom single-family residential building. Answer the following questions below based on your review of the plan.

1.	Determine the minimum drop required for the 4-inch diameter building sewer pipe from the building foundation to the septic tank inlet.
	(inches)(feet)
2.	How much effective leaching area (ELA) is required?(sq ft)
3.	How much effective leaching area (ELA) is provided?(sq ft)
4.	What is the minimum size septic tank required?(gal)
5.	Determine the average slope (gradient) of the ground in the leaching system area (use two arrows shown on plan for horizontal distances)(%)
6.	What is the general direction of the downhill slope (gradient)? north south east west
7.	Based on the deep-hole test pit data, what is the maximum depth the bottom of the leaching system can be located below original grade?(inches)
8.	Determine the minimum leaching system spread (MLSS) for the system:
	MLSS = HF X FF = (feet)
9.	As proposed on the plan, what would be the minimum finished grade elevations for each row? ROW#1 =(feet)
	ROW#2 =(feet)
10.	List at least two problems noted on the proposed plan regarding the leaching system design, separation distances, well location, etc.

CLASSROOM EXERCISE #2 (PLAN)

