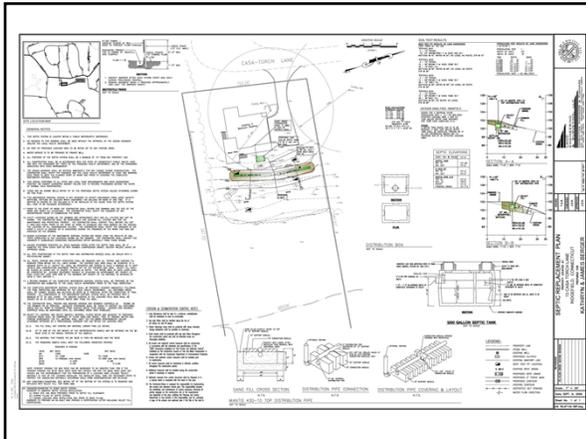


Reviewing a PE Plan

Plan Submittal and Design Manual Checklist



PE Plan submittal Check List

- Section 19-13-B103 of the Public Health Code requires preparation and submission of detailed engineering designed plans for sewage disposal systems proposed in areas of special concern and for all large sewage disposal systems with design flows of 2000 gallons per day or greater.

PE Plan

- Plans for the design of sewage disposal systems in areas of special concern or for large sewage disposal systems must be prepared by a professional engineer registered in the State of Connecticut.
- Engineers typically become involved in the design process prior to or shortly after soil testing on the subject property revealed a limiting condition.

PE PLAN

- The engineer should consider comments and recommendations listed on backside of the soil test data form which has been prepared or confirmed by the director of health or sanitarian.

PE Plan

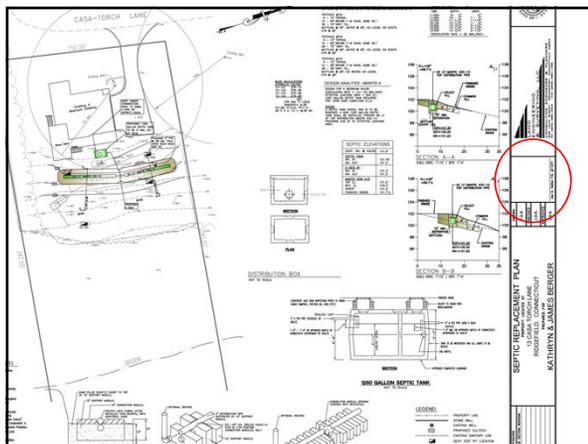
- In order to assure a satisfactory installation in accordance with Code requirements, it is essential the design plan be complete and cover all items of concern to the sanitarian and installer.
- Construction notes, sequence of construction and site preparation, mechanical and electrical specifications for small pump lift stations and erosion and sedimentation controls are often included on plan.

PE Plan

- Detached pages of soil test data, construction notes or instructions to installers are often misplaced and are not as effective as the same information described on plans.
- It is most important that accurate contours be developed

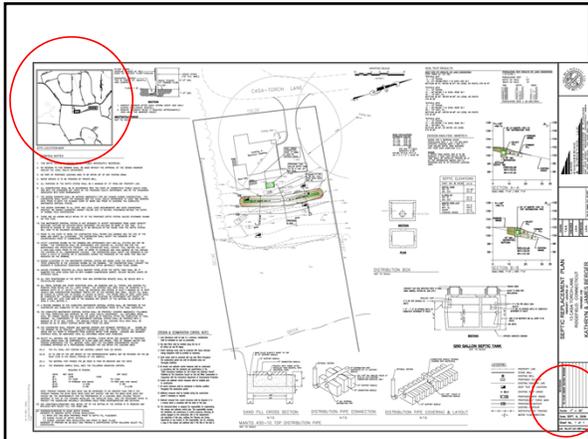
Check List

- 1. Original signature and seal of design engineer on each copy of plans (Blue print of seal and signature is unacceptable)



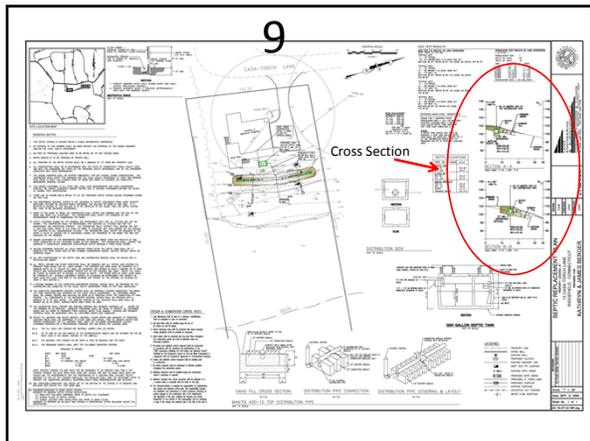
Check List

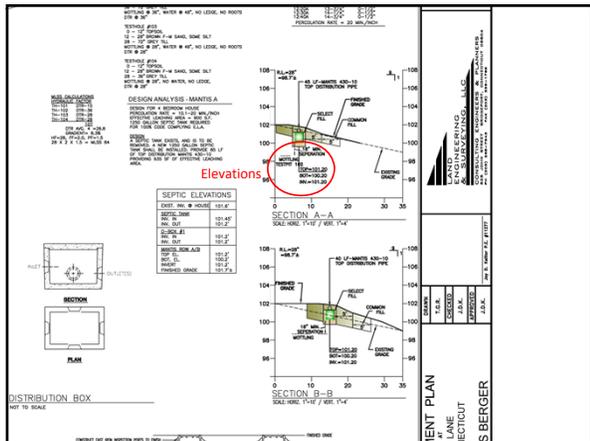
- 2. Plan drawn to scale; 1" = 20' or 30' for residential lots; 1" = 40' or 50' for large projects such as schools, shopping centers. "Key" or location maps may be inserted on large residential, industrial or commercial properties with proper scale addressing building and sewage disposal areas only



Check List

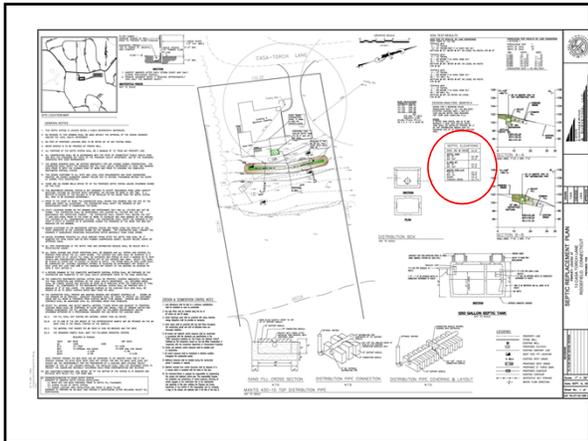
- 3. Mailing address of engineer
- 4. Lot size with dimensions of property lines
- 5. Lot numbers or assessors map block and lot identification
- 6. Legend to identify various indicators of stone walls, test pits, wells, hay bales etc.





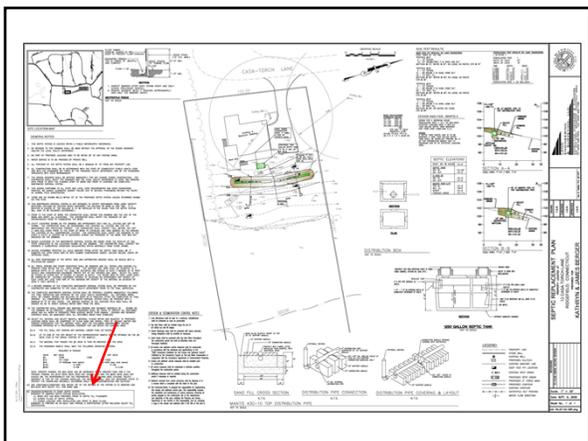
Check List

- 10. Building sewer line to septic tank
- 11. Septic tank location
- 12. Pump chamber location, chamber cross section showing manhole, float controls, discharge volume
- 13. Effluent distribution piping, "D" boxes
- 14. Leaching system layout (trenches, pits, or galleries) with dimensions on center



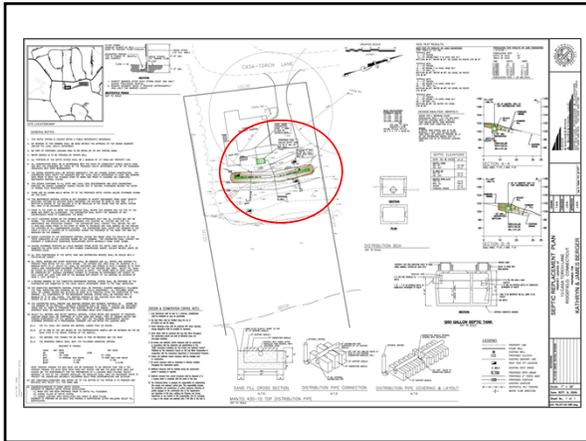
Check List

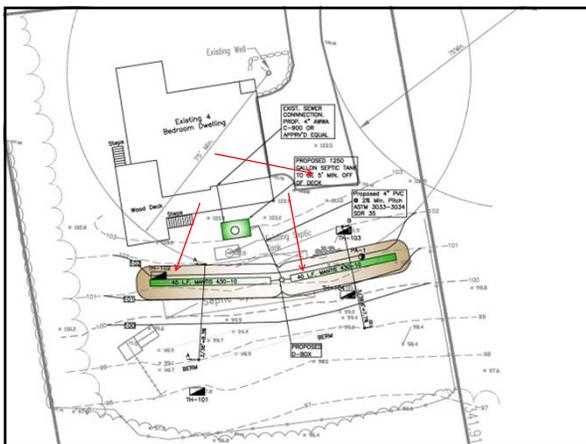
- 16. Stable bench mark adjacent to proposed building and sewage disposal system. Installer should not be required to transfer bench marks when considerable differences (more than 10' to 15') exist between the bench mark and leaching area. If the bench mark is disturbed prior to construction, the engineer should set another one for construction purposes.



Check List

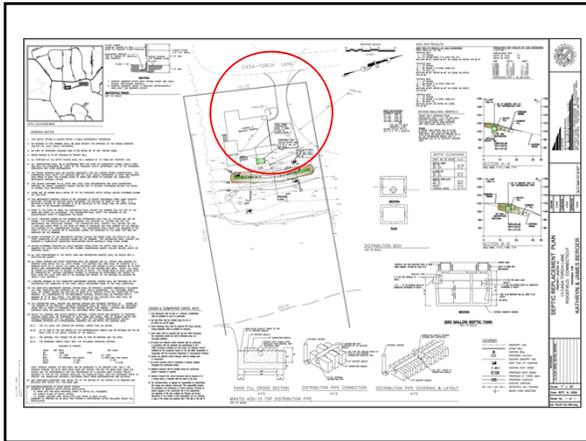
- 23. Dimension leaching system lengths, distances from tank to building, system to building, system to walls, embankments, drains etc. Do not rely on installer to accurately scale critical dimensions off the plan.





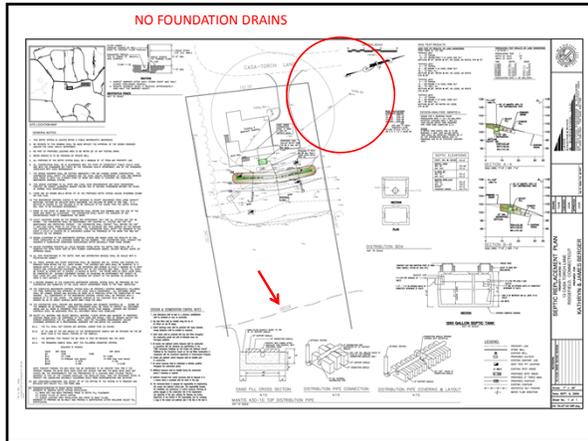
Check List

- 24. Well location with protective radius. Recommend increasing minimum 75' distance for private residential well where possible to provide increased protection. Locate well to avoid condemnation of suitable leaching areas on adjacent properties.

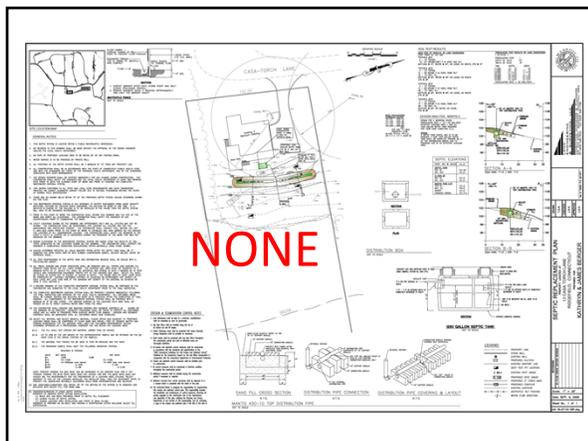


Check List

- 25. Locate wells, septic systems and other potential sources of pollution on adjacent properties. If none exist, note on plan.
- 26. Show building footing drain discharges (90% of homes have foundation/footing drains), storm drains in roads, streams, brooks, drainage swales, swamps, ponds or other watercourses

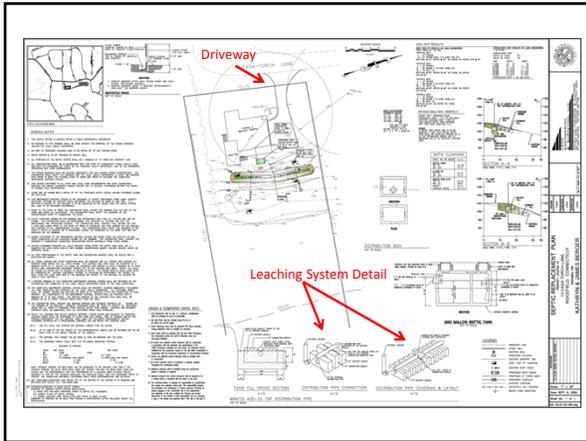


- ### Check List
- 29. Identify ledge rock outcrops, wet surface areas, old bury holes, filled-in foundations, etc.
 - 28. Show existing structures on same lot
 - 29. Locate public water lines in road and show water service line to building
 - 30. Locate human habitations on adjacent lots



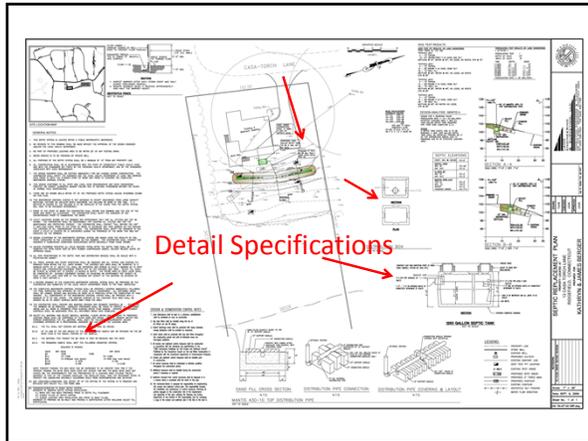
Check List

- 31.Show detail of leaching system proposed
- 32.Show detail of curtain drain
- 33.Indicate driveway location



Check List

- 34.Provide detail specifications for materials to be used such as fill, force main piping, pump model and manufacturer, H-20 wheel loading for pits or galleries under pavement, curtain drain backfill, manhole frames and covers and other non-typical items required for design.



- ### Check List
- 35. Identify reserve leaching area by layout of a leaching system of acceptable size
 - 36. Revision dates
 - 37. Indicate location of buried oil tanks (must be 75' from private wells)

