BEDMINSTER TOWNSHIP BOARD OF HEALTH CHECKLIST #3
INDIVIDUAL SEWAGE DISPOSAL REPAIR APPLICATION

All construction proposed for the repair of an existing individual sewage disposal system shall be in accordance with the following standards.

Sewer Lines, Distribution Lines, Forcemains

1. Disposal piping:

   a. Slope of pipe in disposal system shall be 0-2"/100 feet _____ _____
   b. Loop or cap ends of distribution lines _____ _____
   c. Pressure dose network shall be constructed of PVC pipe (ASTMD-2662) schedule 40, SDR-21or SDR-26or ABS _____ _____
   d. All holes drilled into pressure dose network shall be deburred. _____ _____
   e. Holes in adjacent laterals shall be offset by ½ of hole spacing. _____ _____
   f. All joints shall be watertight. Solvent weld joints to be used. _____ _____

2. Building sewer pipe to be 4" SCH 40 PVC installed with 10" of sand all around. _____ _____

3. Forcemain to be PVC pipe. Piping and joints to be capable of 100 p.s.i. minimum pressure rating. _____ _____

4. Forcemain is to be backfilled with impervious soil from edge of bed to limit of fill area. _____ _____

5. Forcemain shall be installed a minimum of 48" below grade. _____ _____

6. Perforated PVC inspection ports with threaded caps to be set in the ends of the disposal bed or trenches. _____ _____

Septic Tank Notes

1. Certification for frost resistance (ACI 318-16-4.5.1) shall be provided by the manufacturer and the certification displayed on the tank. _____ _____

2. All inside concrete surfaces shall be sealed with two coatings of an appropriate inert coating of minimize corrosion (coal tar pitch). Coating of pre-cast tank shall be applied by the manufacturer prior to delivery to the job site. Distribution boxes and pump pits must also be coated. _____ _____

3. Septic tanks and pump pit shall be placed upon a firm and stable foundation so that the potential for uneven settlement or shifting is minimized. Tanks to be installed directly on undisturbed natural soil. If the excavation is dug too deep, it shall be backfilled to the proper elevation with compacted sand. Compacted sand to be observed by design engineer prior to installation of tank. _____ _____

4. Tank invert connections to be sealed with an expanding grout or a manufactured water proof pipe coupling which is incorporated into the wall of the tank. _____ _____

5. A septic solids retainer or a six (6) inch septic effluent filter shall be installed and maintained in conjunction with all new septic tanks prior to the effluent distribution network

and in accordance with all manufacturer's specifications. Septic solids retainers and septic effluent filters shall be certified by, and bear the mark of, NSF International (NSF) under NSF Standard 46. _____ _____

6. All manholes shall be extended flush with finished grade by means of a riser fitted with a removable water-tight cover. Covers shall be bolted or locked to prevent access by children. Covers shall be of cast iron when a concrete riser is used. _____ _____

7. An inspection port extending to finished grade shall be provided over each tank or compartment inlet or outlet which is not directly below a manhole except for those outlets where a septic solid retainer is used. Inspection ports shall extend to finished grade and shall be constructed of 4" cast iron or PVC pipe with a locked or bolted cap. _____ _____

8. A permanent, non-corrosive marker a minimum of six square inches in size containing the following information shall be attached to the manhole cover or riser immediately below the cover:
i. The administrative authority name and permit number under which the system was installed;
ii. The date of installation;
iii. The type of system; and
iv. The total design criteria in gallons per day. _____ _____

9. All tanks, including risers and inspection ports to the highest joint, shall be tested for watertightness after installation using hydrostatic or vacuum tests in accordance with N.J.A.C. 7:9A-8.2(m). _____ _____

10. Where the seasonal groundwater table is less than four feet below grade in the area of the septic tank, flotation calculations shall be provided. Concrete anchors shall be provided if necessary. _____ _____

Pump and Pump Pit Notes

1. Contractor must contact Department of Health prior to electrical wiring and installation of components. _____ _____

2. All openings in pump pit and septic tank to be sealed with Embeco 636 Grout or equivalent and covered on outside with tar. _____ _____

3. A gas tight seal shall be provided where the electrical conduit enters the pump pit. _____ _____

4. Provide level controls at heights indicated for pump pit. Make_____Model_____. _____ _____

5. Provide high water alarm (bell & light) inside building with automatic reset silencing switch on separate dedicated circuit. _____ _____

6. Pump pit to contain single phase pump or pumps with electric alternator.
Make_____ Model_____ Single Pump_____ Phases_____ Voltage_____
Dual Pump_____ Electrical alternator_____ Horsepower_____ Discharge Size_____ _____ _____

7. Pumps to be capable of _____g.p.m. at _____t.d.h. _____ _____

8. All electrical service lines from the home to the pump pit shall be underground and protected by electrical conduit. _____ _____

9. Electrical connections for pump to be made outside of the pump pit in NEMA 3 enclosures mounted on adjacent post. _____ _____

10. Provide pump pit and alarm with separate circuit from building underground; all electric work to be done in accordance with the N.E.C. _____ _____

11. Inside of pump pit to be sealed with two coatings of an appropriate inert coating. _____ _____

12. Provide cast iron sanitary manhole cover for pump pit. _____ _____

13. Where the seasonal groundwater table is less than four feet below grade in the area of the pump pit, flotation calculations shall be provided. Concrete anchors shall be provided if necessary. _____ _____

Suitable Fill Notes

1. Fill material utilized within the zone of treatment shall meet the following requirements:
i. Coarse fragment content (greater than a No. 8 sieve) less than 15 percent by volume or less than 20 percent by weight;
ii. Textural analysis (composition, by weight, of size fraction passing the particular sieve as stated below in this subparagraph) between 80 and 100 percent must pass a No. 8 sieve (2.36 mm); between 50 and 85 percent must pass a No. 16 sieve (1.18 mm); between 25 and 60 percent must pass a No. 30 sieve (0.6 mm); between 10 and 30 percent must pass a No. 50 sieve (0.3 mm); and between two and 10 percent must pass a No. 100 sieve (0.15 mm); and
iii. Permeability for this material is established in this chapter at the range of six to 20 inches per hour for design purposes. _____ _____

2. Fill material placed within the zone of disposal, the fill material shall meet the specifications in N.J.A.C. 7:9A-10.1(f)4 or the following requirements:
i. Coarse fragment content less than 15 percent by volume or less than 25 percent by weight;
ii. Textural analysis (composition, by weight, of size fraction passing the two millimeter sieve): 85 percent or more sand; and
iii. Permeability greater than two inches per hour; or percolation rate faster than 30 minutes per inch. _____ _____

3. Install Suitable fill in 8" – 12" lifts and compact lightly with roller or tracked vehicle. _____ _____

4. The permittee is required by the Bedminster Township Board of Health to have the suitable fill material sampled and tested by a soils engineer and be in compliance with New Jersey Department of Environmental Protection Specifications. A sample shall be obtained by sampling an on-site stockpile or by Sampling an on-site stockpile or by sampling material in the disposal bed with a minimum of 2' of fill installed. A composite mechanical analysis, including sieve and hydrometer testing, will be required of each sample. A copy of the laboratory test report shall be furnished to the Department of Health, prior to the installation of gravel. _____ _____