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Clackamas County
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CLACKAMAS COUNTY

DAN JOHNSON
DIRECTOR

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DEVELOPMENT SERVICES BUILDING
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Sand Filter Checklist

I Septic and Dosing Tank(s):

- ☐ Single compartment with dosing tank or two compartments with dosing chamber
- ☐ Dosing compartment or tank is at least 500 gallons for on-demand dosing.
- ☐ Timed dosing (recommended) requires a pass thru septic tank, a minimum 1000 gallon dosing compartment, or 1000 gallon dosing tank.

II Sand Filter

- ☐ 360 square feet minimum for up to 450 gallons per day. Greater than 450 gallons should be sized using (Gallons Per Day/1.25=Total Square Feet)
- ☐ Containment vessel specified with dimensions
- ☐ Top view and end view of sand filter with all components shown.
- ☐ Lateral lines spacing, valves, cleanouts, and orifice spacing shown
- ☐ Filter media types, depths
- ☐ Sand Filter Media sieve analysis done within 1 year from supplier meeting the OAR 340-071-0100 (124) specifications
- ☐ Underdrain Media sieve analysis done within 1 year from supplier meeting the OAR 340-071-0100 (170) specifications

III General Plans (meeting OAR Chapter 340, Division 71 & 73 regulations)

- ☐ Design flow exceeding 600 gpd require plans and specifications be prepared by a registered engineer, wastewater sanitarian or environmental health specialist.
- ☐ The site has an approved site evaluation for a sand filter system, pressurized system or standard system. Verify that the loading rate (450 gpd /1/2 acre) in coarse textured soils is not exceeded.
- ☐ Site plans are drawn to engineer's scale, with an arrow pointing north, showing an overview of the entire development.
- ☐ The plans and specifications must show/identify/specify the following:
  - ☐ Location of all property lines.
  - ☐ Location of all buildings on the property, both existing and proposed at time of installation.
  - ☐ Location of all wells on or within 200 feet of the septic system.
  - ☐ Location of streams, ponds, lakes, rivers, and other drainages within 100ft of the septic system.
  - ☐ Location of all roads and driveways adjacent to or on the property.
  - ☐ Location of the approved drainfield area and test holes used to evaluate the property.
  - ☐ Direction and percentage slope in the drainfield location
  - ☐ Drainfield layout and sizing as per the site evaluation report. The lengths of individual lines, trench depth, and level tolerances are to be shown.
  - ☐ Location of all system components, including but not limited to the septic tank, dosing tank, sand filter, hydro splitter, d-boxes, dispersal trenches, etc.

- ☐ Relative elevations for building sewer, septic tank, dosing tank, sand filter, hydro splitter, drainfield, and other key components must be identified.
- ☐ Alarm and control float settings for all pumps.
- ☐ A hydraulic assessment for all pumps must be provided. Commercial system design flows greater than 600 gpd must use duplex pump station designs.

IV Service Contract

- ☐ There must be a signed service contract that is in effect from system start-up.
- ☐ The contract must provide for at least 4 inspections and service visits, once every 6 months over a 2 year period.
- ☐ The contract must provide for Sandfilter effluent quality inspection by the maintenance provider, including a visual assessment for color, turbidity and scum overflow, an olfactory assessment for odor, and any other performance assessment or operational diagnosis necessary to determine or ensure proper operation of the facility.
- ☐ The contract must provide for the maintenance of all components of the system (including the drainfield, pump station, hydro splitter, etc.).
- ☐ The contract must state that the owner will be notified in writing if a problem is found.