BASIC GREYWATER SYSTEM: Deep Bury Tank

The Basic Greywater System comes as a package with all materials shown in drawing, except where noted. The local installer is responsible for supplying all electrical and water pipe connections to and from the Tank, Diverter Valve, Filter, Indexing Valve and Drip Zone. See the Basic Greywater System Manual for detailed installation instructions.

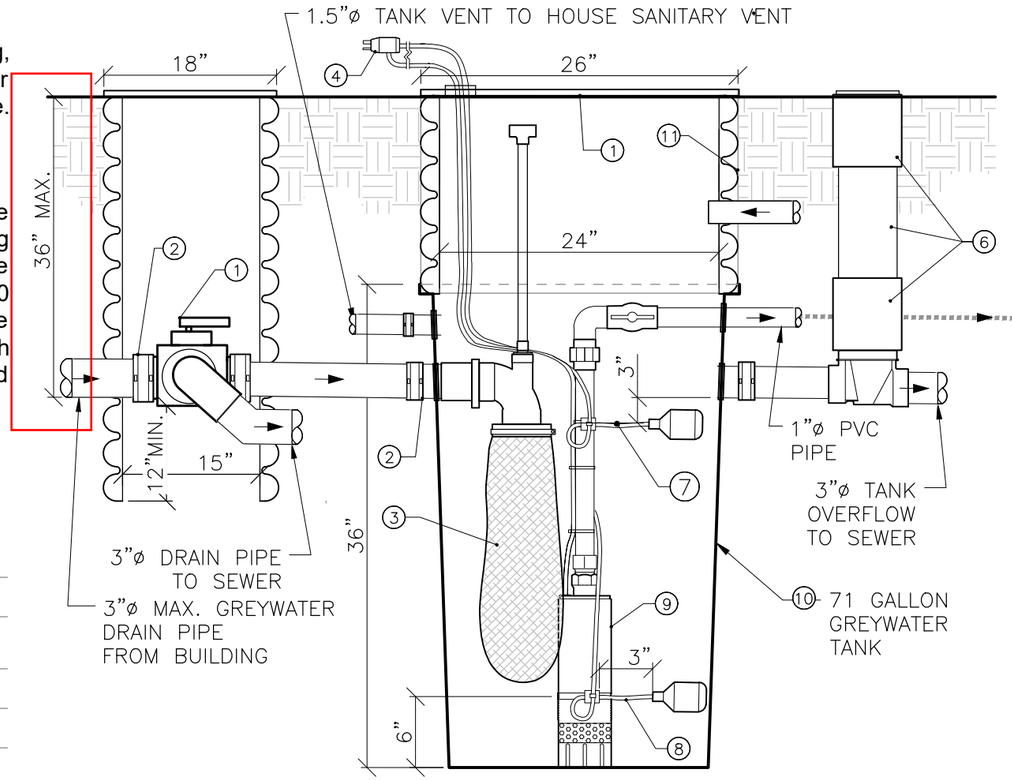
GREYWATER SYSTEM DESCRIPTION:

Greywater from the house drains to the 3-way diverter valve. The diverter valve directs the greywater to the tank or to the sewer. Greywater entering the tank is filtered through a bag filter (1200 microns). When the water level in the tank reaches the high float switch, the pump empties the tank and sends 70 gallons of greywater through the greywater filter (400 microns), and then to the indexing valve where the greywater is distributed to a single zone of drip irrigation. The indexing valve will sequentially distribute 70 gallons of water to each zone connected every time the pump empties the tank. Debris tolerant dripperline and emitters distribute the water to plants in the landscape.

Equipment Notes

1	3–way diverter valve (3"ø) allows diversion to the greywater tank or sewer fitted with actuator to allow operation with a remote switch. Install in 15"ø HDPE corrugated pipe cut to length with lid. Lid and riser not included in package.
2	Banded (shielded) couplings on all DWV pipes connected to tank & valve
3	Bag filter assembly with quick disconnect. Removes large particles 1200 micron size. Replace bag filter every 1–2 years depending upon use.
4	Plug pump & float switch into outlet. Outlet to be within 12' of tank.
5	24"ø corrugated pipe lid, can be covered with mulch or gravel.
6	Backwater valve on tank overflow prevents sewer backflow. Install with deep–bury adapters and 6" PVC pipe riser.
7	High float switch, 3" from bottom of overflow, 3" tether length
8	Low float switch, 6" from bottom of pump, 3" tether length
9	Greywater effluent pump. ½ H.P., 6 GPM @ 20 PSI, 120vac@5.5A. Install with included check valve
10	71 Gallon greywater tank 24ø"x36" tall installed below ground.
11	Tank riser. 24"ø HDPE corrugated pipe cut to length with lid. Attach to top of basin. Lid and riser not included in package.
12	Pressure gauge on filter outlet.
13	Greywater filter, 400 micron size, wall mount above ground. Clean interior foam filter insert every 9–12 months.
14	Install 2–4 zone indexing valve above ground and above highest drip zone. replace 4–zone cam with 2–zone cam. Use 1" sch.80 pipe on inlets and outlet. Do not reduce pipe sizes!
15	Cap unused zone outlets below ground.
16	Transition from 1" PVC pipe stubout to ¾" poly pipe manifold at drip zone.
17	¾" poly pipe manifold header.
18	½" dripperline branch with built in emitters. 12" emitter spacing. 400 micron filtration minimum. Maximum of 166 linear ft of dripperline per zone.
19	Greywater drip emitter, 400 micron filtration minimum. Use with dripperline in same zone to provide extra water to high water–use plants.
20	Makeup water added to tank from air–gap, 2"ø

Note: All drain, vent, pressure & electrical piping between diverter valve, tank, filter, indexing valve and drip zone are not included in the package. Tank riser, tank lid, diverter valve basin & diverter valve lid not included in package.



A UNDERGROUND DIVERTER VALVE & GREYWATER TANK

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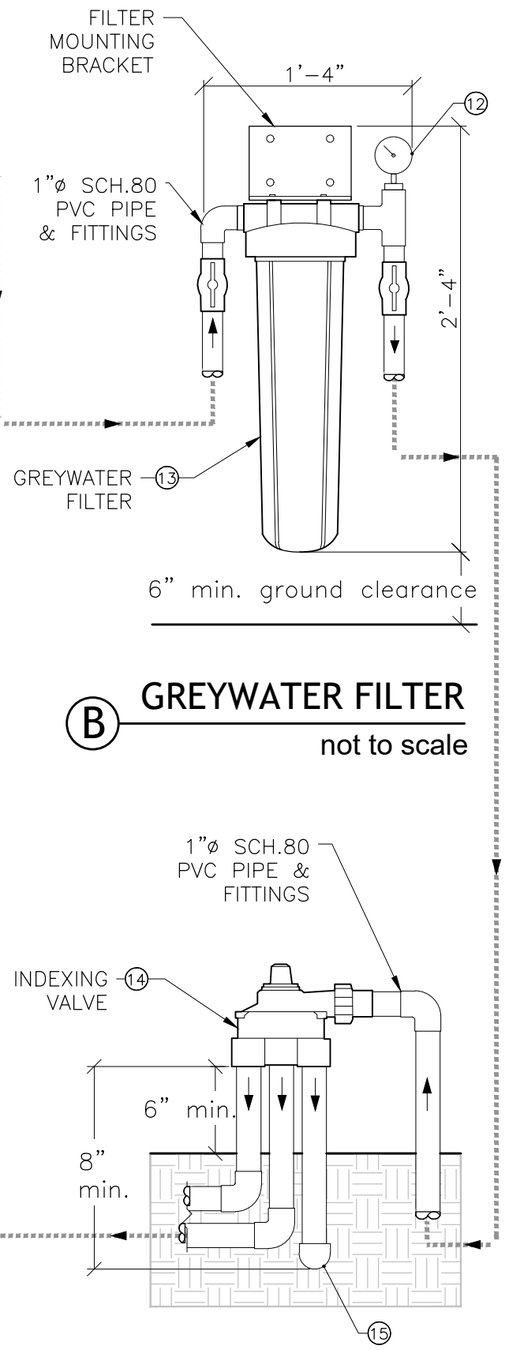

B GREYWATER FILTER

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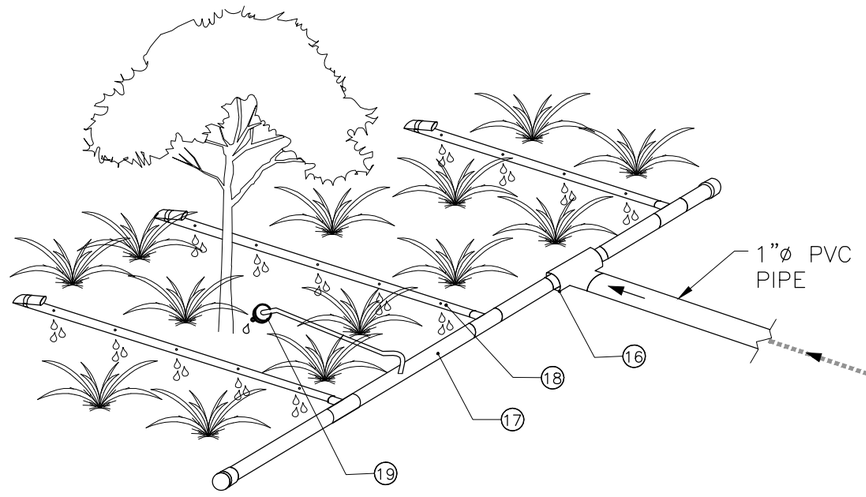

C DRIP ZONE WITH DRIPPERLINE & EMITTERS

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D INDEXING VALVE

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