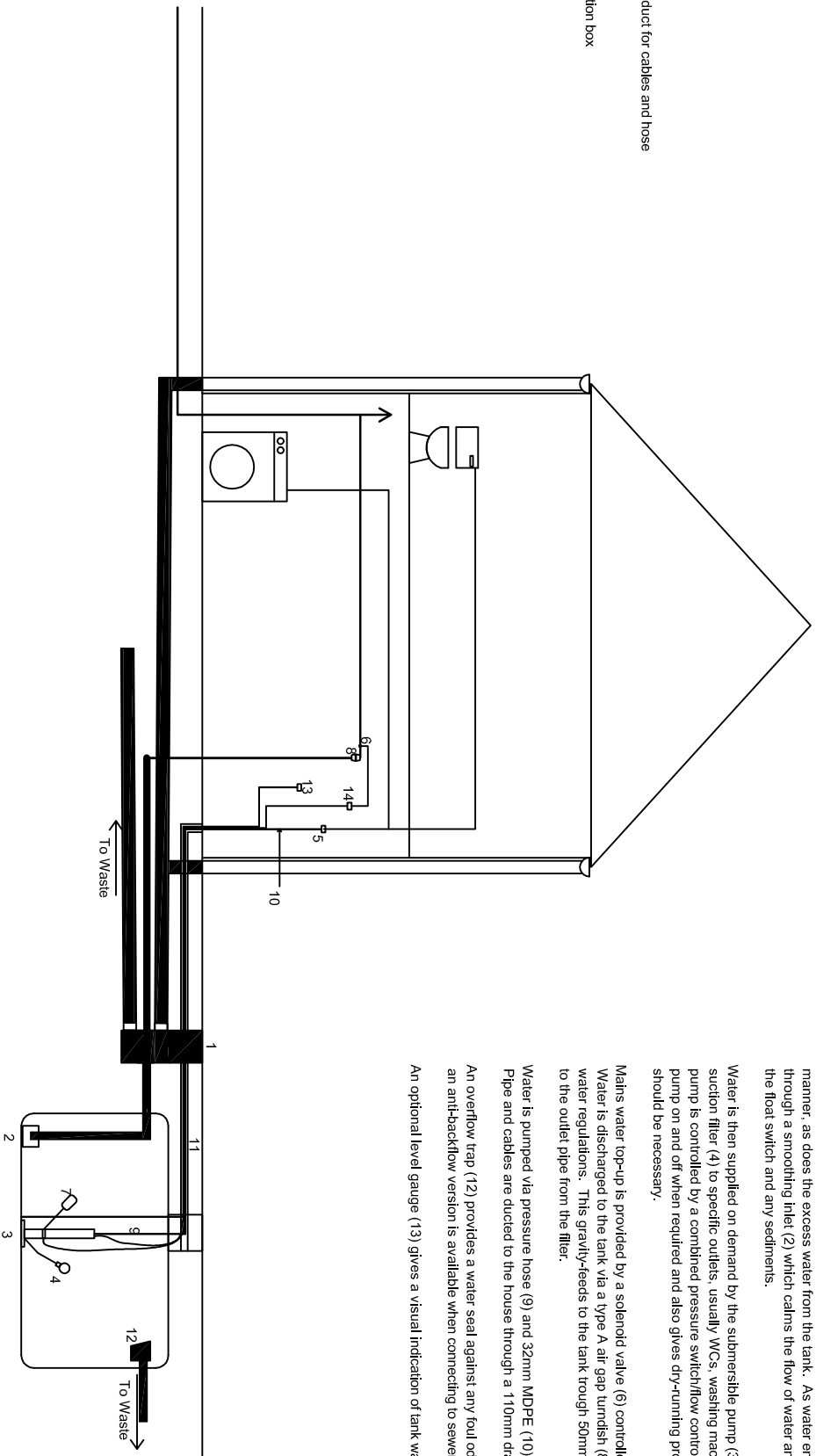


Components

1. Microstrain Filter
2. Smoothing inlet
3. Submersible pump
4. Suction filter
5. Flow controller
6. Solenoid valve
7. Float switch
8. Type A air gap
9. Pressure hose
10. 32mm MDPE pipe
11. (not supplied) 110mm duct for cables and hose
12. Overflow trap
13. Level gauge (optional)
14. Piggy-back plug or junction box



Rainwater is collected from the roof drainage system by the underground filter (1). This filters out the debris from the water and diverts about 90% of it into the storage tank. The remaining water goes to soakaway or storm drain in the usual manner, as does the excess water from the tank. As water enters the tank it passes through a smoothing inlet (2) which calms the flow of water and prevents disturbance of the float switch and any sediments.

Water is then supplied on demand by the submersible pump (3) through a floating suction filter (4) to specific outlets, usually WCs, washing machine and garden tap. The pump is controlled by a combined pressure switch/flow controller (5) which turns the pump on and off when required and also gives dry-running protection to the pump if it should be necessary.

Mains water top-up is provided by a solenoid valve (6) controlled by a float switch (7). Water is discharged to the tank via a Type A air gap (turndish) (8) compliant with current water regulations. This gravity-feeds to the tank through 50mm pipe that then connects to the outlet pipe from the filter.

Water is pumped via pressure hose (9) and 32mm MDPE (10) up to the flow controller. Pipe and cables are ducted to the house through a 110mm drainage pipe (11).

An overflow trap (12) provides a water seal against any foul odours from drains. N.B. - an anti-backflow version is available when connecting to sewer.

An optional level gauge (13) gives a visual indication of tank water level.

MICROSTRAIN RAINWATER HARVESTING TANK

not to scale

MICROSTRAIN ENVIRONMENT -
Kinsealy Lane, Malahide, Co Dublin
Ireland
Ph: +353 18038388

NOTE:
ALL LEVELS TO BE CHECKED
AND CONFIRMED ON SITE.

Ref No: RI REV:

DRAWN BY: RI REV:

SCALE: N.T.S

SIZE: A4

DATE:

DRG. NO.:

microstrain
sustainable engineering solutions

DRAWING TITLE:
Rainwater Harvesting Tank

CONTACT: Ivan McFadden

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