1. Rainwater collection point (roof drains, gutters, etc.)
2. Intewa Purain prefilter installed in tank (Possible 97% diverted to storage tank)
3. Remaining water from prefilter to overflow. Slope 1-2%.
4. Smoothing Inlet - "flow-calming" device to eliminate turbulence of the incoming water as it enters the tank.
5. Underground Cistern
6. Yaskawa IQ Pump 1000 VFD
7. Pedrollo UP pump 4" min submergence
8. Level Transducer. Separate conduit from power.
9. Pipe overflow to BMP or storm drain.
10. Flex hose & check valve assembly
11. Pressure transducer
12. Pipe filter discharge to drain
13. Domestic water supply
14. Backflow prevention device
15. Pressure gauge
16. PRV set 5 PSI below pump setpoint. Opens when tank is empty or pump is inoperable.
17. Popup emitter to prevent animal intrusion
18. Fiber wound pressure tank