

## WATER STORAGE TANK CONSTRUCTION CHECKLIST

The following list is a synopsis of the "Rules for Public Water Systems", 30 TAC Chapter 290 regarding proposed water distribution system improvements. Sealed plans, capacity report and specifications meeting, but not limited, to the minimum requirements cited here shall be prepared under the supervision of a registered professional engineer and submitted to TCEQ for approval. This list is not a substitute for the rules. Failure to submit the following items may delay project approval. Copies of the rules may be obtained from **Texas Register, P.O. Box 13824, Austin, TX, 78711-3824, Phone: 512/463-5561** or downloaded from our website at:

*[http://www.tceq.state.tx.us/permitting/water\\_supply/ud/planrev.html](http://www.tceq.state.tx.us/permitting/water_supply/ud/planrev.html)*

1.  Not located within 500 feet of sewage treatment plant or disposal area [§290.43(b)(1)]
2.  Not located under any buildings and, when possible, above ground [§290.43(b)(1)]
3.  Not located below ground level within 50 feet of a sanitary sewer or septic tank; (10 feet for pressure rated pipe with pressure-tested, watertight joints) [§290.43(b)(3)]
4.  Not below ground level within 150 feet of a drainfield. [§290.43(b)(4)]
5.  Adheres to current American Water Works Association (AWWA) standards and has:
  - roof vents,  manways,  drains,  sample connections,  access ladders,  overflows,  liquid level indicators; [§290.43(c)]
6.  Bolted tanks adhere to AWWA Standard D103; [§290.43(c)]
7.  Roof - no water ponds and slope of less than 0.75 inch per foot [§290.43(c)]
8.  Roof vents - gooseneck or roof ventilator based on the maximum outflow;
9.  Vents equipped with screens of 16-mesh or finer, corrosion-resistant material; [§290.43(c)(1)]
10.  Roof opening - 30" (24" w/other 30"); 4" curb, lockable cover, 2" overlap, gasket [§290.43(c)(2)]
11.  Overflow -  hinged and weighted cover;  no gap over 1/16 inch;  sized to handle the maximum possible fill rate;  not be subject to submergence [§290.43(c)(3)]
12.  Level indicator: float, ultrasonic, or pressure gauge (feet of water,  $\neq$  3") [§290.43(c)(4)]
13.  Inlet and outlet located to prevent short circuiting;  Clearwells baffled [§290.43(c)(5)]
14.  Tight against leakage, above the ground water table and no common walls [§290.43(c)(6)]
15.  Means of removing silt and deposits; drains not connected to waste [§290.43(c)(7)]
16.  Painted, disinfected - AWWA standards; conforms to ANSI/NSF Standard 61 [§290.43(c)(8)]
17.  Not previously used for non-potable purpose;  letter from the previous owner [§290.43(c)(9)]
18.  Access manways (riser pipe, shell area, access tube, bowl area) not be less than 24" (riser pipe or access tube  $\leq$  36" - 18" x 24") [§290.43(c)(10)]
19.  Intruder resistant fence w/lockable gates. Pedestal-type elevated exempt [§290.43(e)]
20.  All surface water and ground water >50 conns, 200 gallons per connection; [§290.45(b)]
21.  For 50 - 2,500 connections, - EST capacity of 100 gallons per conn or PT of 20 g.p.c.
22.  For >2,500 connections, EST of 100 g.p.c. [§290.45(b)(1)(D)(iv)]
23.  Noncommunity transient water systems >100 units - 35 gallons per unit; PT - 10 g. p. u. [§290.45(c)]
24.  Noncommunity non-transient water systems - Max Daily Demand \_\_\_\_\_ Gallons/person [§290.45(d)]
25.  Surface water - 50 percent of the maximum daily demand;