

General Lift Station Specifications

Please note all stations are different with final approval left to the digression of the Town

One (1) duplex control panel rated NEMA 3R stainless steel enclosure panel. Panel should include: Back panel and inner door, motor and control circuit breakers NEMA rated motor starters, oil tight hand-off-auto switches, oil tight run lights, lightning arrestor and surge capacitor, terminal strip, ul listed, an alarm horn with silence circuitry , elapsed time meters, GFI receptacle, power block, alarm light, alternator with selector switch, phase monitor, amp meters for pumps, oil tight high temperature lights for pumps, oil tight seal failure lights, and 500 watt halogen light coming from duplex control panel with on/off switch.

One (1) junction box 12"x 12"x 6" located underneath control panel to connect pump and float power cables. Seal Off needs to be installed between junction box and control panel. Pump and float power cables should be in separate conduit pipes coming from wet well to junction box.

If only single phase can be provided, AC Tech phase inverters used for 3 phase conversion. AC Tech phase inverters need a vented NEMA 3 stainless steel enclosure panel, a 120 vac fan, terminal strip with relays for pump control, fuse block and fuses at incoming power for inverter protection, and separate conduit for incoming and outgoing power cables.

Wet well to be a minimum 5' diameter Wet well needs two (2) submersible pumps sized with proper length power cable, two (2) discharge elbows and upper guide rail brackets, four (4) schedule 40 stainless steel guide rails, two (2) stainless steel lifting chains the proper length and properly sized, ¼" or larger stainless steel thimbles and 5/16" shackles, four (4) float switches, and stainless steel float brackets.

Valve pit should have check valve with spring loaded handle for each pump, gate valve for each pump after check valves, quick disconnect (4") on force main with gate valve, gate valve on force main after valve pit and quick disconnect, and drain pipe (2" PVC) from valve pit to wet well with backflow attached in wet well.

Freeze proof water spigot to be installed for station cleaning.

Fence should be a minimum of 30'x 30' chain link with a 20' double gate and topped with three strands of barbed wire. **A Town of Lexington inspector must approve location and verify size of fenced area before installation.**

Access to lift station needs to accommodate the maintenance vehicles as far as the turn radius into the fenced area and for turning around.