

## **Delivery System**

Our well consists of an eight-inch casing and a RedJacket 4 HP submersible pump with brass impeller unit. It is controlled by two electrical boxes at the top of the well. We have a spare electrical box for the left-hand unit containing circuit protectors and voltage regulators. The switch that actually commands the pump to run is contained within the tower. It has two settings, one is manual run in which case the pump will keep running regardless of how much water is in the tower, and an automatic setting which should be used normally to call for the pump to run when a minimum threshold has been reached in the tower.

There are two limits in the tower for the water levels. The upper limit protects the tower from overflowing. The lower limit tells when the pump should be turned on. These limits may be adjusted as the weather changes to keep freezing from being a problem in the tower. The base of the tower is heated in the winter. There is one line coming into the tower from the well, a meter showing hundreds of gallons pumped, feeder lines for the chlorine, a branch to the top of the tower, and an output line to two main lines to the subdivision. Farnsworth & Wyle was the consulting engineer on the system. Our system conforms to all state and federal codes.

The main lines running from the tower are 4" and feeders are 2". Most of the system is plastic PVC and there are two different kinds of connections as indicated on the blueprints. The lines are approximately four feet underground but due to fill in caused by erosion, these depths may vary considerably

The tower holds about 40,000 gallons of water and there is a single line from the bottom of the tower to the top. The water comes down this pipe when the pump is not running to supply the system. The water goes up this pipe when the pump is running to fill the tower.

### **Flushing Hydrants:**

The hydrants are for flushing only; they are not to be used for direct connections to fight fires. If a pumper truck was to connect directly to the hydrant, our plastic pipes could be easily imploded. There are 7 flushing hydrants throughout Indian Creek. Flushing hydrants are located at 1 Candle Ridge Rd., 6 Pepper Wood Ct., 10 Timber Creek Rd., 26 Eastwood Ct., 12 Eastwood Ct., 1 Bent Tree Lane, and 21 Bent Tree Lane. Hydrants are flushed during warm weather months to improve water clarity. A schedule of days and times when flushing will be done will be published in the ICHWA newsletter. If you notice a sharp decrease in water pressure, consider the day and time of the week.

### **Electrical Connection to Water Tower and Well Pump:**

There are two primary electrical lines that flow into the subdivision underground. One serves the water tower and the other the well pump. If there is no power to the houses,

one should assume that there is no power at the tower or well pump. While there could be power at one location, the system will not operate without both locations having power. Depending on when the power goes out the tower may hold 1-2 days of water. If one of our communication systems fails, there may be no prior notice until there is no water at all. Please be considerate and conserve water during these times and always have bottled water on hand as a back-up.

## **Cellular OmniSite Monitoring System:**

In 2013 a Cellular OmniSite Monitoring System was installed at the water tower so we could be notified quicker of possible outages. Essentially, the unit will send a message when power is interrupted, low battery or signal strength. The unit can send emails, phone calls and text messages. Currently, the system is set up to send an email to the Water Chairman and will make phone calls in a designated order to all board members and the water operator. The system will continue to make phone calls until someone acknowledges the call. The next course of action after receiving one of these calls would be to inspect the tower and/or pump location to see what might be the problem and take appropriate action. If the power outage is because of a storm, it may be as simple for the Water Chairman to call the power company to alert them of the situation. If a homeowner notices a problem, contact one of the other board members. Also, it may be necessary for a board member to call our water operator for further assistance.

---

## **Communication to the Subdivision:**

- 1)** If there is a boil order because pressure in the water system primary lines drops below 20 psi or bacterial was detected during an EPA sample it is important for the Water Chairman or other designated person to communicate with the homeowners of Indian Creek as soon as possible. An email will be sent to all residences who have given us their email addresses for the newsletter.
- 2)** Those without email addresses will be given a phone call and/or message on their answering machine.
- 3)** Signs will be posted at each of the entrances to Indian Creek with the following messages depending on the situation:

- a. NO WATER
- b. CONSERVE & BOIL WATER
- c. BOIL ORDER LIFTED