**Electrical and Plumbing Written Assessment Study Guide**

**Electrical**

* Know basic electrical codes/guidelines and common electrical symbols
* What is the purpose of an electrical plan?
* From what type of plans are electrical and plumbing plans derived?
* What line type is used to draw the connection between a light fixture and switch is drawn on an electrical plan?
* What does GFCI stand for? Where would you find these outlets in a home?
* Approximately how high should switches be placed above the floor? How high should they be placed to be convenient for someone in a wheelchair?
* Describe the following electrical terms:
  + Ceiling fixture
  + Duplex receptacle outlet
  + Split-wired duplex receptacle outlet
  + Three-way switch
  + Weatherproof duplex receptacle outlet
* What voltage outlets are used for the following?
  + Dryer
  + Range
  + Refrigerator
* Calculate the recommended number or lighting circuits required for a house that is 30’ x 24’. Allow one lighting circuit for each 200 square feet.

**Plumbing**

* Know basic plumbing codes/guidelines and common plumbing symbols
* What are the three basic plumbing components?
* What is the purpose of a plumbing plan?
* Describe the following:
  + Branch lines
  + Building main
  + House drain
  + Main and Secondary stacks
  + Trap
  + Vent
* How is waste and waste water removed from a house?
* Is ventilation or the waste line network designed first for a house? Why?
* Give 4 examples of plumbing fixtures.
* What does a drainage system rely on if it does not use pressure to carry waste to a sewer/septic tank?
* In the picture below, what size drain does the sink have? What size drain does the toilet have?

