**CMGT 235 – Electrical and Mechanical Systems**

Department of Construction Management 🏵 California State University, Chico

Homework #11

Points: 25

Due: 10/10/2017

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A five-story office building is designed to have Lav faucets and flush valve toilets on every floor. The floor-to-floor height is 12 ft. The service piping is 5 ft below the first-floor level. Assume 10 psi for friction head and a street mains pressure of 40 psi. Flush valves are 2 ft above floor level (AFL) and Lav faucets are 32-in AFL.

Determine the required street mains pressure.

What type of supply system would you recommend for the project and why?

1. How many feet of water is 80 psi?