CMGT 235 – Electrical and Mechanical Systems

Department of Construction Management ✽ California State University, Chico

Homework #12

Points: 25

Due: 10/12/2017

Name: ___**Solution**_____

1. Using a green, pink, and blue highlighter complete the following for the drawing provide (2-Story House)
    Step 1: Mains – highlight green
    Step 2: Hot Water – highlight pink
    Step 3: Cold Water – highlight blue

2. Determine the Total Building Load for the fixtures shown in the drawing provided. Assign WSFU to each fixture by placing a circle with the WSFU value next to each fixture. Use 2016 California Plumbing Code.

Complete each of the following tables:

Second Floor

Fixture	WSFU
2 - SHW	4.0
2 – LAV	2.0
2 – TUB	8.0
2 – WC FT	6.0
Total for Second Floor	20.0

First Floor

Fixture	WSFU
1 - LAV	1.0
1 –WC FT	3.0
1 – KS	1.5
1 – DW	1.5
1 - HB	2.5
Total for First Floor	9.5

Basement Level

Fixture	WSFU
1 – CW	4.0
1 – LS	1.5
Total for Basement Level	5.5

Total Building Load = ___**35.0**_____

Total Demand in GPM = ___**22 gpm**_____