**CMGT 235 – Electrical and Mechanical Systems**

Department of Construction Management 🏵 California State University, Chico

Homework #10 – Plumbing Material

Points: 20

Due: 9/27/2022

Solution

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

1. For the house plan provided the owner has selected all plumbing fixture options shown. Using a yellow highlighter color and count all the plumbing fixtures listed in the table below.

|  |  |
| --- | --- |
| Fixture | Total |
| Water Closet | 5 |
| LAV | 7 |
| Tub/Shower | 3 |
| Tub | 1 |
| Shower | 1 |
| Kitchen Sink | 1 |
| Dishwasher | 2 |
| Laundry Sink | 1 |

1. If all the water closets are WaterSense and if they were to be flushed simultaneously, how much water would be used?

Total Water Consumed WC = 5 x 1.28 GPF = 6.4 gal

1. What is the flow rate for a WaterSense LAV?

Flow Rate LAV = 1.5 GPM