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| **CMGT 235 – Electrical and Mechanical Systems** | | |
| **Discussion No. 12** | **Unit 2 - Plumbing Systems** | **Fall 2022** |

**Sanitary Drainage and Venting**

**Sanitary Drainage Pipes**

|  |  |
| --- | --- |
| **Soil Pipe (Soil Stack)**  A soil pipe is designed to carry soiled water from the toilet, urinal or bidet to the sewer. | **Waste Pipe (Waste Stack)**  A waste pipe carries water from your sinks, shower, washing machine or bath. |

**DWV Terminology**

The **Drain, Waste, and Venting (DWV) System** provides for the collection of sanitary soil (solid particles) and waste (fluids) within a building, and the discharge of those products outside the building to a municipal sewer system or to a septic system.

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**Chapter 7 Sanitary Drainage**

**Drainage Fixture Unit (DFU)**

Measure of the probable discharge of wastewater and waterborne waste into the drainage system.

1 drainage fixture unit (DFU) = 7 ½ gallons per min (gpm)

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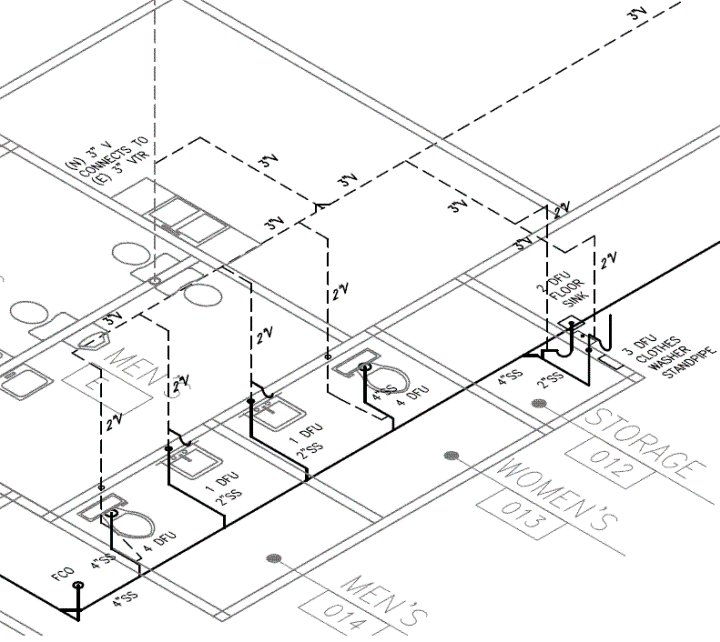
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**2"**

**2"**

**1 ½ "**

**11.0**

**3.0**

**3.0**

**1.0**

**2.0**

**2.0**

**3"**

**3"**

**3"**

**3"**

**1 ½ "**

**1 ½ "**

**1 ½ "**

**1 ¼ "**

**1 ½ "**

**2"**

**2"**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fixture | # of Fix. | Minimum Trap Size and Trap Arm (inches) | DFU | |
| EACH | THIS JOB |
| BT | 1 | 1 ½ | 2.0 | 2.0 |
| LAV | 1 | 1 ¼ | 1.0 | 1.0 |
| WC FT | 1 | 3.0 | 3.0 | 3.0 |
| KS | 1 | 1 ½ | 2.0 | 2.0 |
| CW | 1 | 2 | 3.0 | 3.0 |
|  |  |  |  |  |
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|  |  |  |  |  |
| TOTALS |  |  |  | 11.0 |

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**Chapter 9 Vents**

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