

Facility Dynamics

ENGINEERING

Application Requirements

Working With System Diagrams

Presented By:

David Sellers; Facility Dynamics Engineering

Senior Engineer

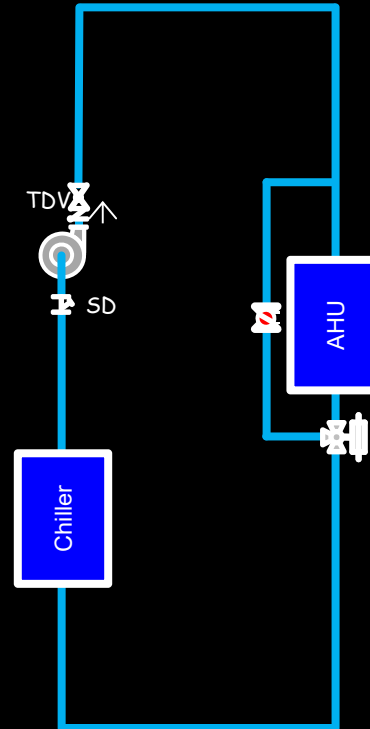
NAVFAC, San Diego

Assessing a Variable Flow Primary-Secondary Chilled Water Plant



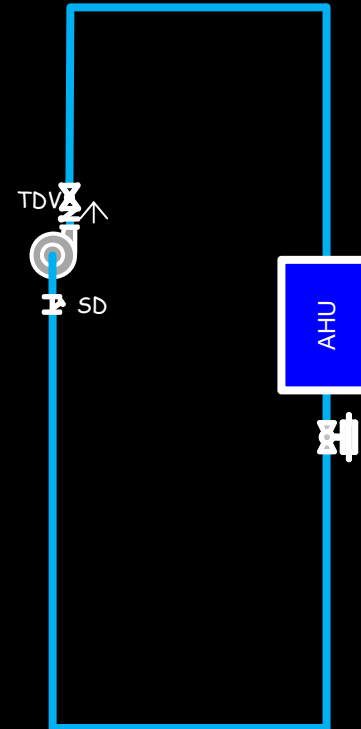
Basic Concepts

The Constant Flow Loop



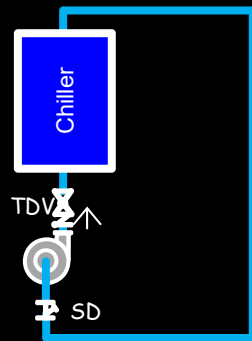
Basic Concepts

The Variable Flow Loop



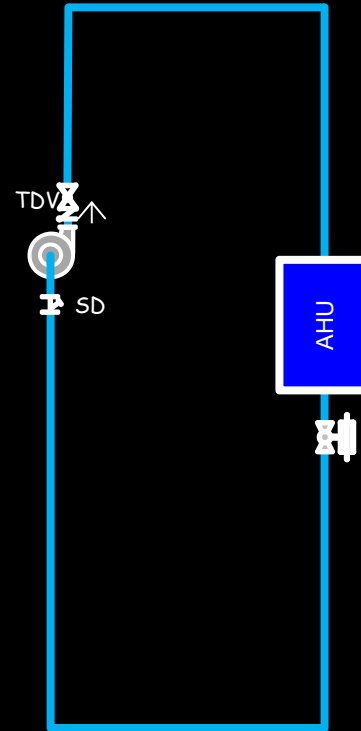
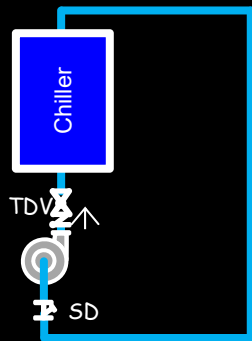
Basic Concepts

Another Constant Flow Loop



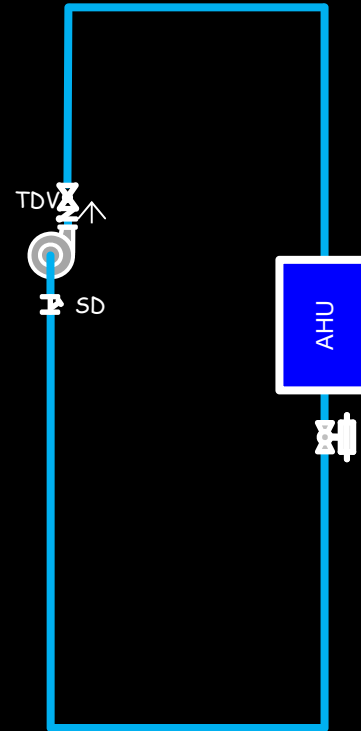
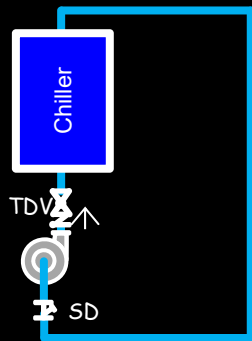
Merging the Two Loops

The Decoupling Bypass



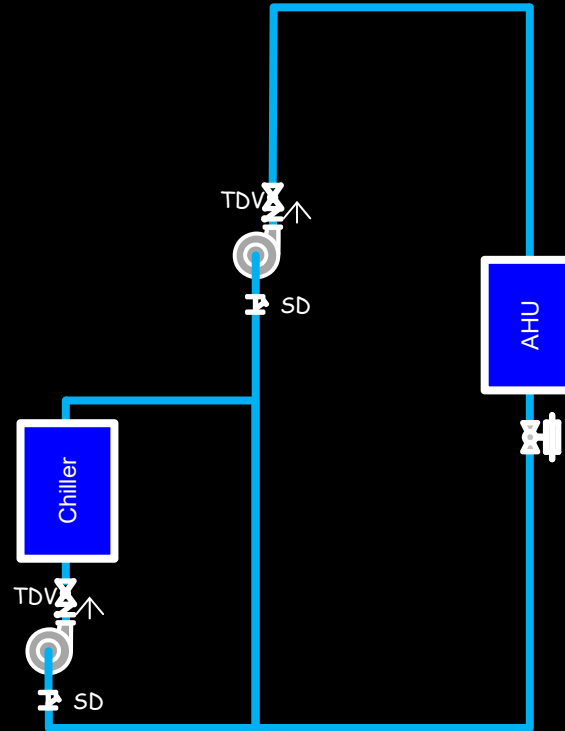
Merging the Two Loops

The Decoupling Bypass



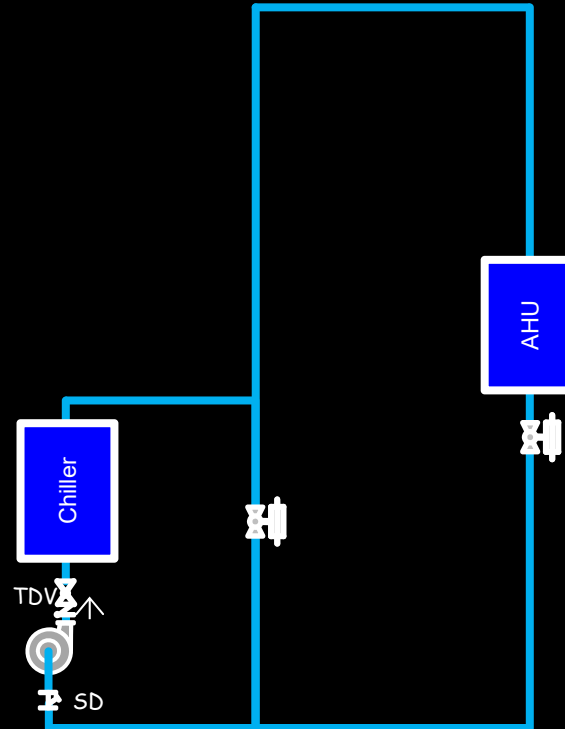
Merging the Two Loops

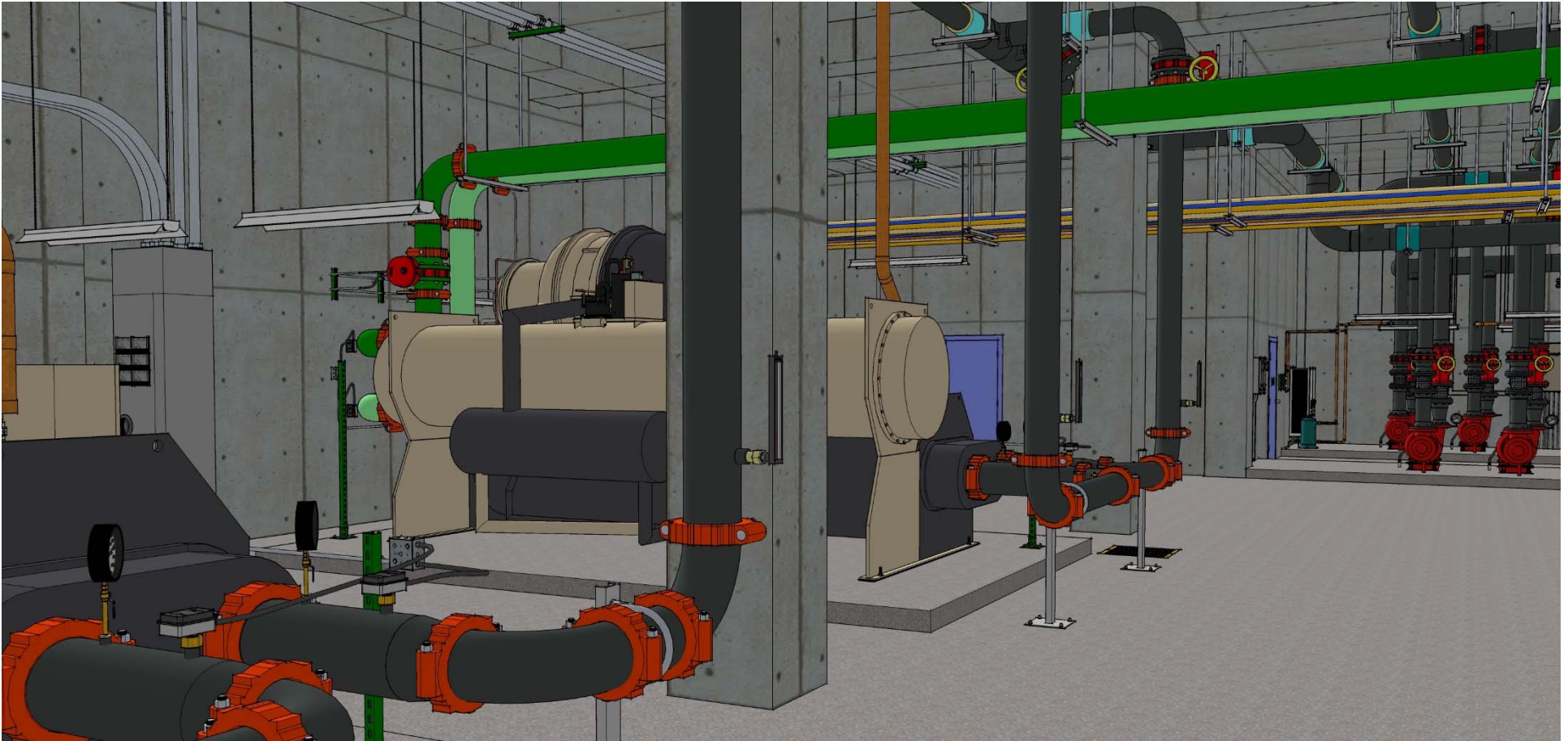
The Decoupling Bypass



Refining the Two Loops

Variable Flow Primary Only

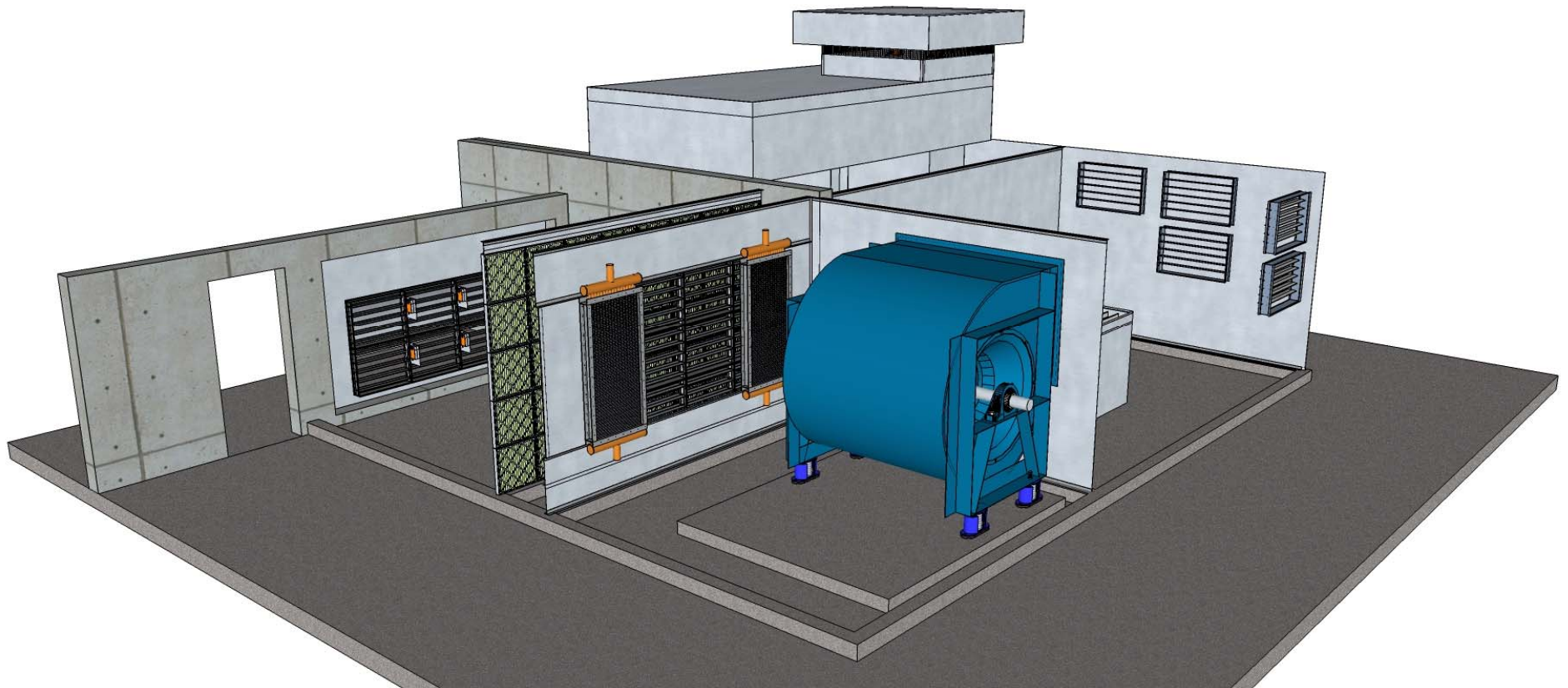


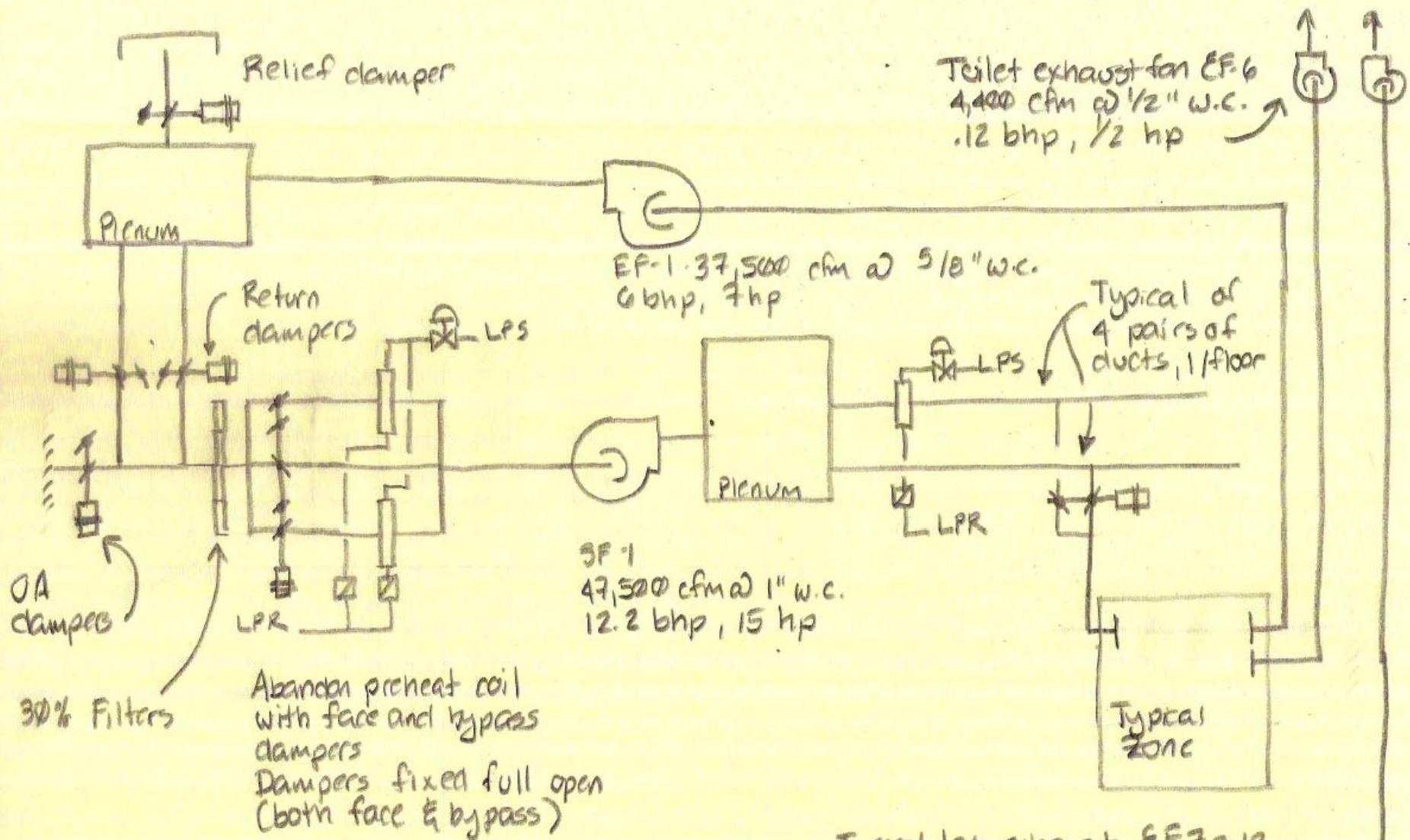


See *System Diagrams: Practice Making a System Diagram* and *System Diagrams: Practice Making a System Diagram – The Answer* at www.Av8rDAS.Wordpress.com:

- *For a video showing how I did the system diagram and the details of how the variable flow primary only system works*
- *For links to more variable flow system resources*

Developing an AHU System Diagram and Assessing Design Intent





Le Conte Annex AHU-1 System Diagram

2013-01-07

DS