

Question about the chilled water piping:

Drawing 4-MS1.08 shows new chilled water mains and pumps being installed in the basement to provide cooling water for all of the new equipment in the building. The new mains are shown as 5" diameter piping and the new pumps are shown at a capacity of 380 GPM. The drawing also shows the new piping being connected to the existing chilled water mains that enter building four from the tunnel. The existing mains are only 4" in diameter. Is it acceptable to connect the new 5" mains to the smaller 4" mains? The existing 4" mains run about 420 feet through the tunnel and into the chilled water plant.

Answer:           The design calls 5" diameter piping because this is Phase 1 of what is planned as a two phase project. The piping is designed to address the future needs of the building under this project. At a later date the existing 4" diameter water mains will be upgraded to 5" diameter. In the meantime the 4" will remain and we'll need to adjust the water floor to accommodate the larger 5" diameter piping on the interior of the building.