

# DANE COUNTY

## CAPITAL PROJECTS/EQUIPMENT DETAIL SHEET

2013

1. AGENCY Dept. of Administration	2. ORGANIZATION Facilities Management	3. COMPLETED BY S. Alwin	4. PHONE 266-4350																																					
5. PROJECT TITLE: Public Safety Building Air Quality Improvements		6. PROJECT NO. 13-096-01																																						
7. PROJECT/EQUIPMENT DESCRIPTION: (INCLUDE USEFUL LIFE FOR EQUIPMENT) <p>This project modifies Public Safety Building AHUs 2, 4, 8, and 9 so that each would have two sections of filtration. The additional filtration will increase air quality, air flow, and the efficiency of the air handling unit and coils.</p> <p>The project consists of two stages. The first stage will clean the duct work to clear out 18 years of dust and particulate accumulation downstream of the air handling unit. The second stage will modify the filtration array to stop the majority of new particulates at the outside air intake.</p>		8. PROJECT TIMING																																						
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9. PROJECT JUSTIFICATION: <p>The Public Safety Building has inadequate filtration in the air handling system. The 1994 design only allows for one section of 30-35% efficient two inch pleated filters to catch the airborne particulates that move through the system. This level of filtration is only able to catch larger particulates, sending the rest into the AHU's cooling coils, supply air ductwork, and heating coils. Plugged cooling and heating coils restrict the airflow and don't perform well.</p> <p>This project installs two sections of filters. The first is a two inch pleated filter designed to catch larger particulates, and the second is an 85% efficient filter to increase filtration effectiveness. The modified airhandling units will remove significantly more particulates, improve air quality, and improve HVAC system performance by keeping cooling and heating coils cleaner longer. These improvements also reduce the labor time required to clean and maintain the coils.</p>		LOCATION: <p>Public Safety Building</p>																																						

