



MCKAY CONANT HOOVER INC  
Acoustics and Media Systems Consultants



MCH provided comprehensive acoustical and audiovisual services for the renovation and major expansion of Terminal 4 at the Phoenix Sky Harbor Airport, completed in 2005. Multiple projects totaled \$60M in construction. A large component was the full overhaul of Level 3 converting it into a retail concourse, adding a section for all the new "D" gates plus full audiovisual planning and design to ensure intelligibility metrics were met for Terminals 2, 3 and 4. Achieving speech intelligibility was a special challenge because the prior main concourse had full carpeting and acoustical ceilings but the new design required all tile flooring and gypsum board ceilings plus many glass walls for retail. The Terminal 4 expansion involved the addition of 120,000sf, a new 470 foot bridge, and widening of the international concourse to accommodate 10 new gates. The S2 Concourse addition provided a total of 180,000 sf spread over 3 levels to accommodate gates, restaurants, and retail concessions. MCH was engaged on this fast-track 10 month construction schedule in 2004 and work was complete with the opening of S2 Concourse in 2005.

In addition, the work included the design of several elements such as a relocated chapel, relocated art gallery, toilets, retail merchandising units, information booths and selected TSA security areas.

**RENOVATION / EXPANSION  
TERMINAL 4 plus S2 CONCOURSE  
& PORTIONS of TERMINALS 2 & 3  
SKY HARBOR AIRPORT  
PHOENIX, AZ**

