

## East Terminal Expansion

Lambert-St. Louis International Airport (LSIA)

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*Location*

St. Louis, Missouri

*Construction Completion*

1998

*Construction Cost*

\$80 million

*Area*

240,000 s.f.

*DMA Services Provided*

Structural Engineering



The project included design of a two-level terminal building with a featured cantilevered long-span roof system. Foundations consisted of a combination of drilled piers and driven steel piles. This new 12 gate terminal for Southwest Airlines and LSIA produced an extremely cost effective facility for both the airline and the owner.

DMA was responsible for all structural design for this \$80 million expansion, including the structural engineering design of drilled piers and driven steel piles in addition to a steel girder elevated roadway. DMA also designed and prepared contract documents for foundations for a two-level parking garage and a 30-foot stormwater pumping station, in addition to structural systems for all electrical substations relative to this project.

This project utilized a new roof frame system in its day, consisting of “pained” long span, curved joist girders. This system was conceived by DMA in conjunction with a specialty joist girder manufacturer.

