



Figure 11-19 First National Bank of Fayetteville, Arkansas—Polk, Stanley Gray Architects. (Photo courtesy BIA.)



Figure 11-20 United Bank Tower in Austin, Texas—Zapalac and Associates Architects. (Photo courtesy BIA.)

on a horizontal and vertical grid coordinate system originating at the intersection of the arch axis and the left skewback. Each set of equations depends on the conditions of loading. Moments, shears, and axial thrusts are determined at various increments of the span. No tensile stresses should be permitted in unreinforced masonry arches under static loading conditions. For a detailed analysis of major structural arch design, see Leontovich, *Frames and Arches*. For relatively high-rise, constant-section arches, his Method A of Section 22 applies.