

# STRENGTHEN YOUR STRUCTURE

## *BJC HealthCare - Parking Garage*



### **Project Summary**

McCarthy constructed a \$20 million, 333,000-square-foot parking structure as part of the south campus portion of the BCJ HealthCare Campus Integration project at Barnes-Jewish Hospital in St. Louis. The seven-level, 650-car structure replaced a 400-car structure demolished on the same site and provides parking for both a new Barnes-Jewish Hospital emergency department, as well as the St. Louis Children's Hospital across the street.

In addition to the significant strength built into the garage to meet Seismic Zone 3 standards, McCarthy also: Added fibermesh to the microsilica concrete mix to help control shrinkage cracks. Poured the garage elevator and future elevator frame after the main deck to allow post tensioning and shrinkage. This part of the structure was conventionally reinforced without post tensioning. Utilized special ConCure maturity testing sensors to verify concrete strengths for early post tensioning.

**Owner**  
BJC HealthCare

**Architect**  
Helmuth, Obata & Kassabaum

**Engineer**  
David Mason & Associates

**General Contractor**  
McCarthy Building Companies, Inc.

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