About the Project

During the renovation of a two story building in San Francisco, CA, some of the concrete columns of the second floor exhibited honeycombing, rock pockets, appearance of cold joints, crazing and horizontal cracks. Concerns were raised regarding the internal quality of the concrete.

Concrete Science, Inc. used Impact Echo test technique to evaluate the internal condition of the concrete columns. The test was conducted at every foot along the height of the columns. Overall tests showed poor concrete consolidation. The test results showed a wide variation in the response spectra for the columns with exterior honeycombing. In addition, the test results indicated some of the columns with possible interior voids.

Concrete Science, Inc. recommended additional testing and gave the Structural Engineer guidance in choosing the repair materials and procedures.