

## PRECISE CORROSION ANALYSIS IN STRUCTURAL COLUMNS

Inspection of structural columns using iCAMP technology. The focus was on assessing the levels of corrosion of the column's reinforcement.

### CHALLENGES

Key challenges included the need for non-destructive testing methods, accurate detection of internal corrosion or degradation, and the requirement for efficient and timely analysis.

### SOLUTIONS

iCAMP technology was employed for its advanced imaging and analysis capabilities. This technology enabled a thorough inspection of the columns without causing any damage or requiring extensive manual intervention.

### RESULTS

The use of iCAMP resulted in detailed images and data about the internal corrosion of the columns. It provided insights into areas of concern such as potential cracks, voids, or other structural weaknesses.

### BENEFITS

The iCAMP inspection method offered significant benefits, including enhanced safety by identifying and quantifying corrosion, saving time and costs compared to traditional inspection methods, and providing a comprehensive understanding of the column's condition for informed decision-making.

Photo of Column 5 with spalled concrete



Example iCAMP Results: Column 5  
Contour plot of reinforcement cross-section loss

