

////// GPRS LASER SCANNING SERVICES

# CASE STUDY

**TASK:**

Two Architectural Firms joined forces to renovate a vacant hotel.

**PROJECT APPLICATION:**

Laser scan and 3D model a 15-story hotel and adjacent parking garage for building redevelopment.



**PROBLEM**

- The restoration called for renovating and converting the 130,000 sq ft property to create 100 residential units.
- Most floors of the building were completely gutted, with only the exterior envelope and interior circulation core remaining.
- With two architectural firms, this project involved many professionals and much planning before a shovel ever hit the ground.



**SOLUTION**

- The developer was investing \$30 million in this construction project, and requested an as-built model in a cloud-based platform to document, view, and plan for structural renovations.
- With a 3D model, the architectural team was able to view the existing conditions at the onset of the project. The team then updated the model as needed throughout construction.
- The 3D model allowed the firms to communicate construction requirements to the general contractor.



**BENEFITS**

- 3D laser scanning captured accurate as-built details of the deteriorating conditions of the vacant building.
- The architectural team relied on the 3D model to troubleshoot the restoration while keeping historic elements intact.
- The 3D model improved communication and collaboration across a large and diverse project team.

