



Revel Casino Hotel Tower 1

ATLANTIC CITY, N. J.

► Known as the tallest structure in Atlantic City and the second tallest structure in the state of New Jersey, construction of the 47-story Revel Casino Hotel Tower 1 began in January 2008. Commonly referred to as Revel, this 6.2 million square foot beachfront entertainment resort is being built on a 20-acre site with 1,000 feet of boardwalk frontage on what is arguably the most desirable beachfront location in Atlantic City. The goal is to create a resort with strong appeal and attraction for the untapped market of the 40-plus million adults within a six hour drive of its location.

The solution came in the form of a complex structure requiring approximately 115,000 cubic yards of concrete and 15,000 tons of rebar. The project involved the use of 29,000 cubic yards of self-consolidating, 12,000 psi concrete. Shear walls were constructed using mechanical splices starting at the foundation and ending at the 22nd tier.

The 17-foot thick, mat slab foundation required continuous pours of 5,000 to 12,000 cubic yards. To avoid the need for high-bay shoring at podium levels, column-hung forms were used. Because of Madison Concrete Construction Company's planning, the team was able to construct an average of one floor per week on this superstructure.

From the coordination of design in a fast-track environment, to scheduling and management of manpower and equipment resources, all components of this project were carried out with safety and the highest quality in mind. Working through snow and ice during the winter months, extreme heat in the summer months, variable rains and constant windy conditions throughout the course of construction, quality control and problem-solving were keys to the success of the new hotel tower. The hotel is slated to open in the spring of 2012.

OWNER: Revel Entertainment

GENERAL CONTRACTOR: Tishman Construction

ARCHITECT: Bower Lewis Thrower/SOSH

ENGINEER: Harman Group

OTHER TEAM MEMBERS: Midstate Filigree Systems, Re-Steel Supply Company, Atlantic County Concrete, AmQuip Cranes, Putzmeister, Forming Concepts, Hi-Lyte Systems, Patent Form Systems

COMPLETION DATE: September 2009

SERVICES PROVIDED:

- Conceptual budgeting
- Schedule input
- GMP at schematic design
- Bidding at design development
- Bid to award
- Construction of concrete frame

