

# ONE PARK PLACE

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## Setting out the welcome mat

*15-hour "Mat Pour" for first high-rise apartment building in 40 years in downtown Houston*

(HOUSTON)...Looking like something out of a science fiction movie, the "mat pour" for the Finger Companies' downtown 37-story luxury high-rise apartment tower was a 15-hour marathon of 200 tightly choreographed concrete trucks off-loading 7,200 cubic yards of concrete to form the 3'9" to 8'6" thick, 27,000-square-foot foundation the first downtown luxury high-rise apartment tower in more than 40 years; and the first residential development overlooking Houston's new downtown park, Discovery Green.

The "mat pour" commenced at midnight Friday, March 16 and continued until the next afternoon. It was overseen by the developer, the Finger Companies; the project general contractors, D.E. Harvey Builders; and the architects, Jackson Ryan architects, Inc.

Participating companies were: Southern Star (Redi-Mix supplier--concrete); Pump Co. (pumping); Fernandez Concrete (finisher); CMC Houston Steel (rebar supplier); CSC Steel Services (rebar installer); Terracon (testing lab) and EMI Contractors (excavation).

## Details of the site preparation and "mat pour:"

Site preparation and excavation: Began February 12

- 25,000 cubic yards of soil were removed from the site over three weeks
- Excavation to a depth of 20'6"
- 2" thick concrete slab poured and 2 million pounds of reinforcing steel re-bar installed

"Mat pour:"

- Area dimensions: 130' by 210'; 27,000 square feet
- Foundation thickness: 3'9" on sides to 8'6" in center
- Concrete: 7,200 cubic yards (5,000 PSI strength)
- 150 concrete trucks continuously deliver fresh concrete to pumping stations
- 800 total truck loads over 15 hour
- 6 pumping stations
- 4 Houston-area concrete plants
- Manpower: 100 (estimate)

As the concrete was pumped through placement booms, agitator machines were used to vibrate freshly placed concrete to eliminate air pockets and insure consistent density. During solidification, the core of concrete mass generated internal heat up to 180 degrees F within 40 to 48 hours.

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