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## PROJECT PORTFOLIO - TRANSIT SYSTEMS

# HIGH ROLLER OBSERVATION WHEEL MAINTENANCE

LAS VEGAS, NEVADA



***THE LAS VEGAS HIGH ROLLER, OWNED BY CAESARS ENTERTAINMENT, IS ONE OF THE WORLD'S TALLEST OBSERVATION WHEELS. THE OVERALL HEIGHT IS 550 FT., SUPPORTING A TOTAL OF 28 CABINS, EACH CAPABLE OF HOLDING UP TO FOURTY (40) PASSENGERS. SCHWAGER DAVIS, INC. (SDI) SUPPLIED, INSTALLED AND COMMISSIONED ALL MECHANIZATION EQUIPMENT, THE WHEEL CONTROL, AND THE CONTROL INTERFACING BETWEEN WHEEL PROPULSION, CABINS, AND CENTRAL CONTROL. THE CONSTRUCTION PHASE OCCURRED BETWEEN NOVEMBER 2011 AND MARCH 2014; ON MARCH 31, 2014, THE HIGH ROLLER OPENED TO THE PUBLIC.***

# HIGH ROLLER OBSERVATION WHEEL MAINTENANCE

## **SDI's O&M OWNER PARTNERSHIP**

At the High Roller, SDI performs *all maintenance* while Caesars operates the system for riders. SDI installed and operates the wheel's CMMS system to log performance, assist in maintenance and repair, and track parts inventory.



SDI's maintenance contract includes the following: the drive system, the lateral guidance system, the observation wheel power distribution system, the wheel data & voice communication network, the control system, all 28 cabins (including HVAC's, doors, lighting, and AV equipment), and the wheel structure (including the wheel rim, legs, rim cable spokes, and the main hub bearings).



The observation wheel operates sixteen hours per day; remaining time is used for maintenance.

The entire wheel system is operated and monitored from the central control room at the end of the boarding platform; however, the wheel can also be operated from local control stations.



## **SDI'S PROACTIVE AND VIGILANT APPROACH TO SAFETY**

A pre-opening meeting to verify the wheel is ready for normal operation takes place daily with the operations supervisor and the maintenance manager. Maintenance meetings also include weekly and monthly maintenance planning meetings.

The High Roller is built of 3.5 million tons of steel, joined by 112 3 inch  $\varnothing$  locked coil cables, and powered by 8 drive units. The system includes a manual mode recovery drive system (1<sup>st</sup> of its kind) enabling emergency recovery and evacuation of a fully loaded wheel in two hours.

