Superstorm Sandy Repair & Rehabilitation - Montague Tunnel, New York, NY

Parsons Brinckerhoff/Parsons Transportation Group, New York, NY

Honor Award

Innovative engineering helped restore a ruined transit tunnel that had been devastated by 20 feet of flood water from Superstorm Sandy. The October 2012 storm left the nearly century-old Montague Tunnel filled almost to the ceiling with 27 million gallons of salt water. Virtually everything from tracks and switches, to signals and controls, to power and communications systems was destroyed. The project team had to demolish and reconstruct 30,000 feet of concrete duct banks and 90 manholes containing over 78,000 feet of cables. More than 11,000 feet of track and associated equipment were replaced because of severe corrosion damage. Installation of three new pumps with capacity of more than 1,900 gallons per minute, along with 8,000 feet of dry discharge lines, adds protection against future flooding. Service was restored to a far more weather-resilient station in September 2014.

Santa Teresa Terminal, Santa Teresa, NM

Wilson & Company, Inc., Salina, KS

Honor Award

Three separately located rail operations have been consolidated into a massive, centralized and highly efficient terminal facility. Nearly 12 miles long and encompassing 2,200 desert acres in remote New Mexico, the project includes two fueling platforms two miles apart, which facilitate bi-directional train fueling, servicing and inspection, in addition to more than 50 miles of new track and 23 operational support buildings. Construction of 15 miles of new access roads, along with 2.5 miles of electrical, water and sanitary sewer lines, was also required. At full capacity, the new terminal can process 120 trains with up to four locomotives each day. With its size and complexity, the facility is an extraordinary example of mechanical and electrical engineering coordination.

Spring Skate Park and Dylan Park, Houston, TX

Klotz Associates, Inc., Houston, TX

Honor Award

A unique 10-acre inner-city recreation area featuring North America's largest skate park and an imaginative playground for special-needs children, also includes groundbreaking storm water management. Design elements for the skate park feature a 20-foot-diameter full pipe in a Texas-shaped bowl, backyard-style pools, a sloping snake run and areas for simulated street skating. The special-needs park includes ADA-compliant ramps, tables and playground equipment that expand play options for wheelchair-bound, sight-impaired and autistic children. Engineers also linked nine detention ponds to form a drainage system that carries storm water off site. Greenspace is found throughout. The creative design balances championship skateboarding with special-needs accessibility and aesthetics to deliver an attraction that has stimulated inquiries from throughout the world.