



## Meadowlands Train Station Pedestrian Flow Analysis



**Client Name:** Edwards and Kelcey

**Date Started:** October 2004

**Date Completed:** January 2005

Future plans for the Meadowlands Sport Complex in New Jersey include a destination train station. Connecting to existing rail infrastructure in Northern New Jersey, this train service will transport passengers to and from events at the 80,242-seat Giants Stadium (the second-largest in the NFL), Continental Airlines Arena, Meadowlands Race Track, and the future Xanadu Entertainment Complex.

Edwards and Kelcey asked TransSolutions to perform occupancy and flow analyses of the proposed train station to determine the performance of the conceptual design of the train station under anticipated ridership demand and to verify that, in emergency evacuation conditions, the conceptual design complies with the "National Fire Protection Association (NFPA) 130 - Standard for Fixed Guideway Transit and Passenger Rail Systems".

TransSolutions' analyses included ridership flows from selected venues to the station, flows within the station including vertical circulation, platform sizing, and queuing areas, and the patron-evacuation flows. Additionally, other patron-flow streams around the station were taken into account to determine the overall performance of station integration into the site.

These analyses quantified performance of the different areas and activities of the station (in terms of level of service, waiting times, and travel times), indicated those points of the design critical to ridership flows, and reviewed the evacuation methodology of the station in case of an emergency.