

Project Scope:

Great Northern Engineering provided the engineering for a new "Taxi-Thru" Remote Fueling Apron that will accommodate three 747's or five 757's for overnight parking and refueling service. Structurally, this project consisted of a 200-by-1000-foot section of 16-inch deep concrete. The demolition of the hydrant system for the existing three remote parking positions was accomplished during the initial construction phase. The refueling system consists of a parallel 6-inch pipeline distribution system stemming from two existing 16-inch jet fuel mains terminating at 15 distinct hydrant refueling pits.

All engineering services were provided in accordance with the requirements of the latest applicable local, State, and Federal regulations and codes.

Project Detail:

- Commissioned to provide engineering services for the jet fuel distribution and delivery system
- Provided an initial in-depth study of fueling system alternatives and design parameters
- Designed and built a fueling system to operate at 285 psig for refueling delivery rates of up to 600 gpm per hydrant location
- Designed replacement of catch basins, site drainage infrastructure, electrical taxiway lighting, and emergency fuel shut downs.
- Provided construction support services for this project
- Provided submittal review, on site special inspections, daily technical support

