



**Taxiway Alpha Rehabilitation, King County International Airport (Boeing Field), Seattle, WA; ICON Materials for King County, WA**

White Shield is currently providing subconsultant survey services to support this on-going \$21 Million resurfacing project at King County International Airport (Boeing Field) in Seattle, WA. Over the past several years, deterioration of these pavements has been leading to ever-increasing incidences of Foreign Object Debris (FOD) on the surface. This deterioration has led to increased maintenance repairs to provide a safe operating surface for aircraft and extend the pavement life.



The project includes rehabilitation of Taxiway Alpha and, with the exception of Taxiway A11, rehabilitation of each of the taxiway connectors between Taxiway Alpha and the airport's runways. The project also includes the rehabilitation of small portions of Taxiways A2, A4, A7, and A8 located between the runways that were not included during a previous 2006 runway rehabilitation project. Most of the project consists of milling and overlaying these pavements providing them with a brand new wearing course. There are some limited areas of full-depth pavement reconstruction and cement concrete pavement construction, which will require longer construction duration than asphalt milling and overlaying. Other significant components of the project are installation of a storm drainage water quality vault on the west side of the airport, and upgrades to the airfield lighting and signage primarily within the project area.

White Shield survey crews verified existing control points, compared field locations to the existing geometry control sheet, and established a supplemental control network to facilitate faster execution of subsequent survey tasks. For grading support, a 15-foot grid was staked in each area, and crews have set 4000+ points. All storm and sanitary structures, horizontal changes in water line direction, tees, water valves, manholes, and hydrant locations are being staked. At the end of the project, White Shield is providing as-built drawings of the pavement and cross-section of the taxiway, with staking and as-built vertical tolerances held to 1/4" or less. Additional staking for striping in each area will also be provided. White Shield assisted the general contractor with tie-ins to existing pavements, and gathered data to assist the design engineers in adjusting surfaces as needed to quickly address any design flaws, and meet required timelines under a critical and complex runway and taxiway closure schedule.

