

ConRAC Facility, John Glenn Columbus International Airport

Columbus, Ohio



STORIES BUILT



Cast-in-place (CIP) concrete garages help facilitate a safer, more secure parking experience by providing an open and spacious feel, efficient parking layouts, and space to easily install lighting, security cameras and overhead signage. Open sightlines and enhanced natural lighting are made possible by widely spaced beams and large open bays sans interrupting walls. Without those partitions or walls, which could inadvertently create isolated areas, patrons feel safer. Users also enjoy navigating CIP garages without being subject to rhythmic “thump-thump” vibrations made while driving.



Each year, Ceko Concrete helps clients across the country construct CIP parking structures, often starting with constructability design reviews. We are ready with parking structure formwork, such as Ceko’s steel beamforms, to meet the needs of these projects. Equipment can be delivered to nearly any site in the country within a few days.

One such project is the Consolidated Rental Car (ConRAC) facility at John Glenn Columbus International Airport in Ohio, which Ceko completed for general contractor Dugan & Meyers. The project involved constructing a

three-level rental center garage, which joins the quick turnaround station by a set of helix ramps and bridges. The more than 1,200,000-square-foot facility houses more than 2,600 vehicles. Ceko provided deck formwork services for 465,000 square feet of post-tensioned (PT) concrete garage.

The garage’s efficient beam-and-slab structural system allowed the use of Ceko steel beamforms combined with larger steel girder formwork and Ceko’s unique P1 panel system for the PT slab soffits. The large concrete girders, each measuring 48 x 44 inches, required the Ceko team to follow the load redistributions on the shoring through the various PT tensioning sequences until the entire load was finally distributed to the columns. The structural system was a great choice that met many key constructability measures. Its design allowed Ceko to achieve the project’s schedule safely and with a high degree of reliability.

The ConRAC facility is the first phase of a long-range plan to expand capacity at the airport. Work began August 2019 and the Ceko team topped out June 2020.

FAST STATS

Owner/Developer: John Glenn Columbus International Airport

Contractor Client: Dugan & Meyers

Designer/Architect: TranSystems

Structural Engineers: Schaeffer Structural Engineers

Ceko Scope: Deck formwork services

Ceko Project Manager: Holly Dunham

Ceko Superintendent: Mike Adkins

Ceko Engineer: Peter Windler

Date Complete: May 2020