



# HILTON HEAD ISLAND AIRPORT

Hilton Head Island, South Carolina

## Terminal Improvements Program

Beaufort County | 2019 – 2023

BNP Associates, Inc. was commissioned to design the new outbound and inbound Baggage Handling Systems (BHS) for the Terminal Improvements Program at Hilton Head Island Airport, which was initiated to address deficiencies in the existing facility spaces and accommodate growing passenger demands. As part of the design team, led by The Wilson Group, BNP developed an inbound BHS layout and a series of Type II mini in-line and stand-alone checked baggage screening designs for the outbound BHS to automate the conveyance of baggage and provide a more ergonomically efficient layout.

The replacement and expansion of the existing outbound and inbound BHS is considered one of the Airport's major upgrades. The outbound BHS consists of a new ticket counter conveyor line that feeds a completely reconfigured checked baggage inspection system (CBIS) and a new common-use flat plate device for airline baggage make-up. The new ticket counter conveyor line, CBIS, and inbound baggage claim area will be installed within the existing footprint of the facility, while the inbound and outbound airside operations will be installed in the expanded portion of the Terminal.

With the consideration of Hilton Head Island being a golfing destination, a Leidos Reveal CT-80DRXL will be utilized to facilitate automatic screening of golf bags. The proposed layout of the CBIS also provides space for a second EDS machine for future considerations. Until passenger demands require the installation of a second EDS machine, the right-of-way for the second machine is intended to be used as a contingency lane, which will involve installation of a non-powered roller-bed conveyor with multiple manual screening stations in case the EDS machine is taken offline for any reason.

The new inbound system consists of two "L" shaped flat plate claim devices, each with 100 linear feet of passenger presentation, and an oddsize chute for oversized baggage. The outbound flat plate baggage make-up device, which is fed from the new CBIS, is 200 linear feet long and accommodates 12 cart positions. The outbound operation also includes an oddsize chute for oversized baggage. The project is expected to complete in mid-2023.



ASSOCIATES, INC.

### BNP PROJECT TEAM

Steve LaPorta, Principal  
Nick Triantafidis, Project Director  
Tony Lensing, Project Manager  
Frank Mastronardi, Sr. Designer

### BHS CONSTRUCTION AMOUNT

US \$2.3 Million

### REFERENCE

Travis Pence  
Lead Architect  
The Wilson Group  
2113 Commonwealth Ave  
Charlotte, NC 28205  
(704) 562-5206

### SCOPE OF SERVICES

Analysis Study  
Conceptual Design  
Design Development  
Bid Documentation