



Boston Logan Terminal C Security Checkpoint



Client Name: Rizvi Architects / Massport
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The Massachusetts Port Authority (Massport) has recently completed development of a new consolidated security screening checkpoint in Terminal C at Boston Logan International Airport. The checkpoint is located between the two main concourses in the northeast end of the terminal and replaces the checkpoints that served the concourses individually.

To support the planning of the new checkpoint, the Rizvi Team asked TransSolutions to identify the consolidated checkpoint lane and queuing area requirements. Baseline analyses were conducted for a near-term future demand level to ensure that the checkpoint would meet Team and airport performance goals in terms of passenger waiting times and waiting area Level of Service. Analyses included developing a 3D animation of the checkpoint to demonstrate its operations and flows, and developing an operational plan indicating hour-by-hour lane and ID-check officer requirements. The baseline analyses also addressed other potentially space-impacted processes including oversized baggage delivery to the ramp and greeter waiting areas.

Follow-on analyses included reviewing checkpoint requirements for two additional sets of demand levels, quantifying the impacts of varying security lane throughputs, and performing adjacent ticketing hall capacity analyses.

Once Advanced Imaging Technology (AIT) began to be introduced to the BOS checkpoints, the Team asked TransSolutions to quantify change in security throughput and to re-perform the checkpoint requirement analyses for the three previously reviewed demand levels. The 3D animation was also updated to reflect design/layout changes and operations based on AIT integration as was the hour-by-hour operational plans for lanes and ID-check officers.