

Board Report:

2020 Transportation Research Board (TRB) Annual Meeting Overview, Boston Marathon Airspace Planning & Provincetown Municipal Airport Taxiway Realignment

Monday February 10, 2020

Presented to:

■ **Board of Directors**

Presented by:

■ **Aeronautics Division**

➤ **Dr. Jeff DeCarlo**

MassDOT Overview: 2020 TRB Annual Meeting



- MassDOT joined state DOT officials from Alaska and Texas in sharing challenges, opportunities and the creative ways they've stretched limited dollars to complete airport projects
- The interactive panel provided information on how to implement innovative technologies and build public private partnerships that support both business and aviation education



Panel Topics of Discussion	
Creative Funding Alternatives	Airport Development
STEM Education Partnerships	Business - Airport Synergies
Statewide Capital Programs	24-Hour Air Traffic Operations
Pavement Innovation: Porous Pavement & Cold-In-Place Recycling (CIR) Applications	Unmanned Aircraft Systems (UAS) and Counter UAS (CUAS): Policy and Concept of Operation



Aeronautics Division Takes Part in Joint Airspace Planning Efforts for the Boston Marathon



Marathon Route Aeronautical Chart



Public Safety Announcement



Leave Your Drone at Home



- MassDOT is the Air Operations lead for the Massachusetts Emergency Management Agency (MEMA)
- In this role, Aeronautics assists the FAA with airspace and aircraft deconfliction planning along the marathon route
- The security challenge for the marathon is immense, in part because the event is spread across eight cities and towns along a route lined by spectators on both sides
- Aeronautics will support state and federal law enforcement agencies with drone detection and public safety for the event
- FAA Temporary Flight Restriction (TFR) information will be disseminated to airport managers and pilots across the Commonwealth

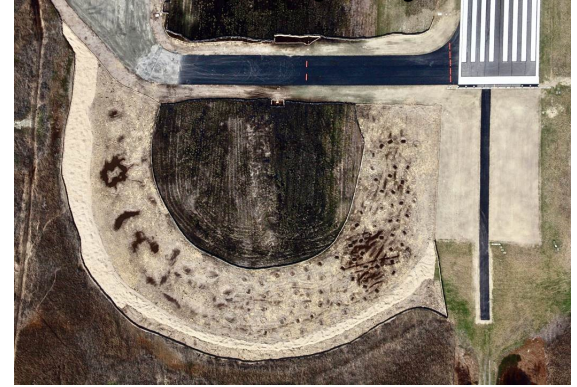
Provincetown Municipal Airport (PVC)

Taxiway Realignment – Permitting Efforts

- Permitting for the taxiway realignment began in 2008 after the completion of the Airport's Master Plan, which identified non-standard airfield geometry conditions
- Provincetown Municipal Airport is one of only two airports nationwide located on National Park Service (NPS) land requiring NPS approval for all proposed improvements
- Further permitting challenges included the protection of plant and animal rare species, physical/natural resources, and state/federally protected coastal waters and sand dunes
- MassDOT staff led a complex, 12-year, interagency coordination effort with 10 local, state, and federal environmental agencies to achieve a successful outcome



New Taxiway 90-degree Alignment



Invasive Species Management



Provincetown Municipal Airport (PVC)

Taxiway Realignment – Construction Phase

- The new taxiway realignment will bring the pavement into compliance with existing FAA airfield geometry standards
- Current FAA standards require runway entrance taxiways to be orientated at a 90-degree angle to enhance pilot situational awareness over existing conditions
- Taxiway improvements will provide increased visibility and safety for aircraft and vehicles entering the aircraft operating area (AOA)
- After an extensive permitting effort that lasted over a decade, the construction was completed in two months
- Environmental mitigation efforts for this project have been scheduled to take place over the next five-years



PVC New Taxiway Alignment



PVC West End Taxiway Alignment

