FAA Research Taxiway - RPA S9

Federal Aviation Administration

Presented to: REDAC

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Federal Aviation Administration

FAA Research Taxiway

- **Single site to design, test, evaluate, monitor, and report on the performance of state-of-the-art airport safety and pavement technologies.**

- **Memorandum of Agreement (MOA) between FAA and Delaware River and Bay Authority (DRBA).**
  - November 15, 2010 through September 30, 2030.
  - Grants the FAA the "right to construct, operate and maintain Research Infrastructure" at Cape May County Airport (WWD) in Erma, NJ

- **Taxiway opened in April 2017**

FAA Research Taxiway

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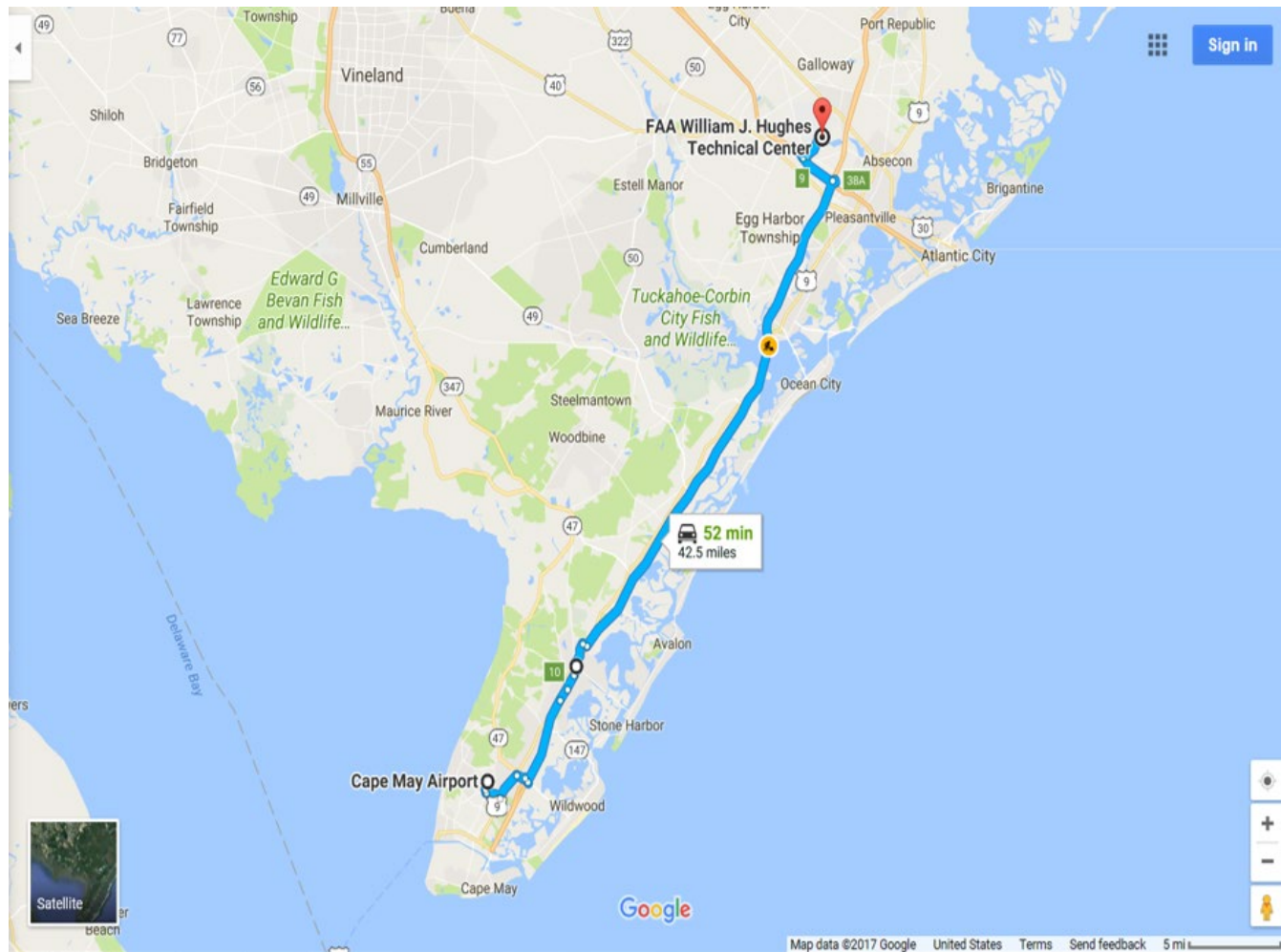
FAA Research Taxiway

- **Taxiway C**
  - Length – 3250'
  - Width – 50'
  - Pavement Width - 150'
- **Full array of Taxiway and Runway Lights**
- **State-of-the-art Lighting Vault**
- **Six Pavement Test Strips**

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FAA Research Taxiway

FAA Research Taxiway

FAA Research Taxiway Lighting Vault

FAA Research Taxiway Lighting Vault

FAA Research Taxiway – Paving Layout

Electrical Vault

Pavement Sensor Strips
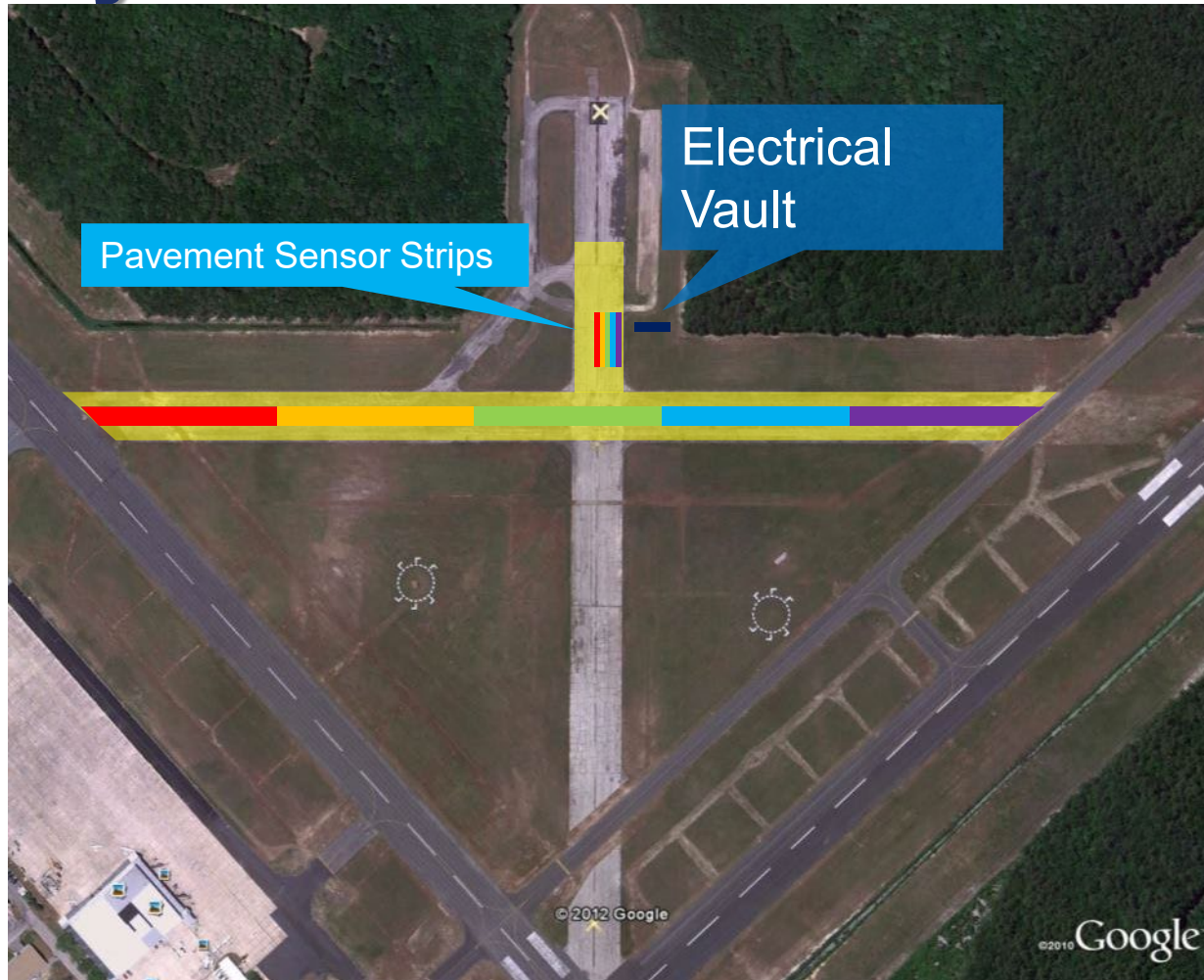
Legend

PG 76-22 Marshal P-410

PG 64-22 Marshall P-401

PG 64-22 Superpave P-401

WMA (PG 76-22) P-401

Stone Matrix Asphalt

NJ State Mix

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FAA Research Taxiway: Research Plans

Safety Projects

- **Completed**
  - Obstruction Light with IR Testing

- **Ongoing**
  - Electrical Infrastructure Testing – FY 18 Business Plan Milestone
  - Runway Surface Friction

- **Planned**
  - Future LED Research Efforts (e.g. solar airfield lighting, light output, etc.)
  - UAS Integration at Airports

Pavement Projects

- **Ongoing**
  - Nondestructive Testing
  - Field and Laboratory Characterization of Pavement Materials
  - Long Term Aging Study of Various Paving Mixes

FAA Research Taxiway
FY 17 and FY 18 Milestones

Completed FY 17 Milestones	Planned FY 18 Milestones
Research Taxiway Opened April 2017	Electrical Infrastructure Research Team Testing
Obstruction Light with IR Testing	Monthly/Yearly Inspections
Draft Research Plan	Procure light fixtures (e.g. runway lights)
Standard Operating Guidelines	Install Storage Containers and Driveways/Walkways
Monthly Inspections	

Questions?

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