e-Ticketing and Digital As-Builts

Transforming Project Delivery

Traditionally, PennDOT has used two-dimensional (2D) plan sheets and received paper tickets from material suppliers to deliver projects. The e-Ticketing and Digital As-Builts innovations involve paperless technologies that facilitate the digital transformation of construction materials management and asset management. e-Ticketing and Digital As-Builts is a Federal Highway Administration (FHWA) Every Day Counts Round 6 (EDC-6) innovation that Pennsylvania championed.

What are the benefits?

- Eliminates paper documentation, **improving construction efficiency** and accuracy

- **Streamlines communication** between PennDOT, consultants, material suppliers, and construction contractors

- Provides better data archiving, translating into **improved project design** and **construction quality**

- Allows information to be collected on PennDOT assets facilitating its **use over the life cycle of a project**.

How does it work?

e-Ticketing takes the place of paper tickets and utilizes a web browser or app on a smart device that allows construction management staff to electronically receive information for materials. Staff will be able to safely receive the tickets outside of the delivery trucks travel path and monitor the construction materials (aggregate, asphalt, and concrete) delivery. Digital As-Builts use digital data, including three-dimenstional (3D) models, to deliver projects from design to construction to asset management. Digital As-Builts can provide a searchable and comprehensive inventory of PennDOT assets, including surrounding property and subsurface utility information, after project completion.

How do I learn more?

To learn more about this innovation, visit www.penndot.pa.gov/stic or email penndotstic@pa.gov.