

FACT SHEET

VTrans Pilots Electronic Ticketing Technology on Paving Projects

PROJECT TITLE

VTrans Pilots Electronic Ticketing Technology on Paving Projects

STUDY TIMELINE May 2020 – Current

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KEYWORD e-Ticketing Introduction or Problem Statement

Electronic Ticketing (e-Ticketing) is a Federal Highway Administration (FHWA) Every Day Counts (EDC-6) initiative which VTrans and industry are pursuing. The goal is to provide all stakeholders with an electronic means of producing, transmitting, sharing material data, and verifying material delivery to enhance safety, streamline inspection, and improve contract administration.



Methodology or Action Taken

VTrans decided to use electronic tickets for acceptance of Hot Mix Asphalt (HMA) material in May 2020 due to the COVID-19 pandemic. VTrans developed an Electronic Ticketing Specification for HMA and accepted the request to add e-Ticketing in two active paving projects in September 2020. The following construction season VTrans included the Electronic Ticketing Specification in two paving contracts and is allowing e-Ticketing on all paving contracts upon Contractor's request through a change order.

Conclusions or Next Steps

After successful implementation in 2020, VTrans decided to require e-Ticketing on two large scale paving projects that are geographically remote and in mountainous areas with intermittent cell phone service. The objectives of the pilot projects are to promote implementation within industry, test software capability, and adapt to the new technology in the field. VTrans is currently working with Contractors, e-Ticketing vendors, FHWA, and the National e-Ticketing Task Force to institutionalize e-Ticketing as the method of measurement for HMA.

Potential Impacts and VTrans Benefits

e-Ticketing benefits in the current state of practice are time savings, safety, and promoting e-Construction initiatives. Field staff and the Contractor now have realtime access of material data through their mobile device/s, allowing more time to focus on construction quality and efficiency. VTrans and Contractor's staff can perform their documentation duties safely away from moving equipment and traffic. e-Ticketing standardizes material data for ease in future referencing and allows for complete electronic documentation of project records.

More information about the VTrans Research Program, including additional Fact Sheets, can be found at: <u>http://vtrans.vermont.gov/planning/research</u>