

Status Report for STIC Incentive Projects

7/12/19

State: New Mexico

STIC Incentive Projects

Project Name	State Champion	Federal Fiscal Year	Federal Funds - Amount Allocated	Federal Funds - Amount Obligated	Federal Funds - Amount Expended
9900844 Electronic Construction Management	Jesus A. Sandoval	FY18	\$100,000.00	\$20,000.00	\$0.00

STIC Project #1: Electronic Construction Management

Progress Report #: 001

Description of Proposed Work:

To purchase four (4) Dell Field Ruggedized Tablet Latitude (\$4,500 ea) for each of the responsible NMDOT Construction Project Offices totaling eight (8) mobile devices, software applications and licenses for paperless construction administration. The anticipated outcome is to increase transparency, save time, money and better partnering.

E-construction is working with Project Developer Engineers (PDEs) to submit digitally stamped electronic plan set, bid documents, and NMDOT specifications. The electronic submittals will be downloaded to tablets through a software application, allowing each construction inspector access to the contract at all times while in the field. In addition, the inspectors will be able to use the tablets to directly input their Daily Diaries, submit and receive Request for Information (RFI) forms directly from the field and manage the project electronically.

Status:

Upper management and IT has authorized the purchase of 25 iPad Pros to pilot the projects making it the most cost effective use of FY17 & FY18 STIC funding. The e-Construction Committee has selected three pilot projects for paperless construction management (Control Numbers S100620, 2103110 and A301444). These projects are expected to have an August 2019 production.

NMDOT is currently working to switch to Site Manager web-based (AASHTOWare Project Construction & Material) for digital project file documentation; however, the development and implementation for this application is still a few years out. Due to deadline constraints, all of the mobile devices and BIM360 application software licenses to stamp and sign the plans digitally for electronic submittal to PS&E were purchased with

FY17 STIC funding. With FY18 STIC funding, e-Construction will purchase PlanGrid application software licenses for one year for a full electronic construction management experience with the iPads.

Using PlanGrid, the Diaries should be more accurate and detailed with the information being directly loaded into the electronic software in real time. They can use PlanGrid to submit RFI's directly from the field, saving time for both the NMDOT and contractor. With Plan Grid, inspectors can use the iPads to take pictures of field documents (such as haul tickets) and file them electronically in one place easily searchable. This will minimize loss or damage of valuable project data, as well as help to move the Project Offices towards an electronic file system and paper-less environment. The savings in paper, ink, time spent in the field and time spent filing paper documents will make the initial cost of the iPads and PlanGrid a smart investment.