

Status Report for STIC Incentive Projects

(05/13/25)

State: (NC)

STIC Incentive Projects

Project Name	State Champion	Federal Fiscal Year	Federal Funds - Amount Allocated	Federal Funds - Amount Obligated	Federal Funds - Amount Expended
Pilot Debris Removal Systems	Dominic Ciaramitaro	2024	\$65,680	\$9,935.00	\$25,511.37

STIC Project #1: Pilot Debris Removal Systems

Progress Report #: 3

Description of Proposed Work: (Overview of Project Proposal and Anticipated Outcome)

NCDOT's Traffic Systems Operations (TSO) is using STIC incentive funds to support a pilot assessment of the viability and benefits of different debris removal systems installed on NCDOT's Incident Management Assistance Patrol (IMAP) vehicles. Integration of the equipment will allow IMAP drivers to remove debris from travel lanes without the IMAP responders needing to leave the protections of the vehicle. The idea of the debris removal tool is to minimize safety risks to the driver as it decreases the time the driver is in the roadway with live traffic. In addition, more efficient debris removal reduces the risk of crashes. The STIC funding supports the procurement and installation of the equipment.

Status:

The TSO unit is evaluating two of the four debris removal systems that have been installed on IMAP vehicles – the Lane Blade system and the Debris Clear system. The Debris Clear system was recently installed in March 2025. NCDOT Statewide Fleet Maintenance procured and received two bumpers without winches to install the remaining debris removal systems on new F-450 trucks. NCDOT Statewide Fleet Maintenance is procuring the Musterman Swiper system and will install it when it arrives from Missouri this month. NCDOT Statewide Fleet Maintenance's contractor is fabricating the JAWS system and will install it once completed. Both Musterman and JAWS should be installed by the end of the month and allocated to two Divisions.

TSO will update the schedule based on recent activity. The schedule includes revised rotation and duration at each location. The IMAP responders input data into an electronic survey after each use for the system assessment.