Research Need for Construction Technical Advisory Group
Effective/ Updated: August 14, 2015

ISSUE: Evaluating the Use of Unmanned Aerial Vehicles (UAVs) for Construction Monitoring

SUMMARY OF PROBLEM: The advent of low-cost and easy-to-use unmanned aerial vehicles (UAVs) equipped with digital cameras has provided a unique opportunity for transportation agencies to measure earthwork quantities and to monitor ground or structure displacement during construction activities such as driving piles or earthmoving operations.

EXPECTED IMPLEMENTABLE OUTCOME: To determine whether the technology is feasible and more economical than current methods for measuring earthwork quantities or monitoring ground and structure displacements.

To submit a research idea for consideration at the spring 2016 Executive Committee meeting, prepare and submit a Proposed Research Idea form to IDOT (DOT.BMPR.RESEARCH@illinois.gov) no later than October 1, 2015.