

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Synthesis of Technical Requirements and Considerations for an Automated Snowplow Route Optimization*

OBJECTIVES: Improve the capacity of DOTs and other transportation agencies to undertake and implement automated snowplow route optimization programs by:

- Documenting technical requirements/considerations for route optimization
- Providing standardized contract language for each technical requirement
- Creating a complementary, non-technical, decision-support document explaining why each requirement is important and how it impacts route optimization contract deliverables

PERIOD COVERED: April 1st, 2020 – June 30th, 2020

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:
Debbie Sinclair / Tom Peters

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:
Jonathan Dowds, Univ. of Vermont

SP&R PROJECT NO:
MnDOT Contract No.
1034820

Federal Project Number:
TPF-5(353)

PROJECT IS:

Planning
 Research & Development

ANNUAL BUDGET: \$73,516

PROJECT EXPENDITURES TO DATE: \$ 22,922

WORK COMPLETED:

- Work this quarter was significantly curtailed due COVID-19 related staff availability changes. The draft literature review (Task 1) was largely completed (and delivered to the TAC 7/15) and the design of the survey of practice (Task 2) was initiated.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- TAC Meeting scheduled for 8/10
- Literature review draft deliverable (Task 1) provide to TAC for review 7/15, final deliverable scheduled for 8/31
- Survey of Practice (Task 2) to be reviewed at 8/10 TAC meeting and launched in August.
- Vendor Interviews (Task 3) to be initiated 9/1

STATUS AND COMPLETION DATE:

The project is on track to be completed on budget. Due to staff availability changes related to COV-19 the Project PI is submitting an Amendment Request for a 6 month no-cost extension. The amendment from has been review and approved by the Program Manager.