

**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: July 1, 2021 – September 30, 2021.

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

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1034820

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(353)

PRINCIPAL INVESTIGATOR:

Jonathan Dowds, University of Vermont

ANNUAL BUDGET: \$73,514

PROJECT EXPENDITURES TO DATE: \$ 68,958

WORK COMPLETED:

- Delivery of final Technical Requirements and Guidance Document (Task 4)
- Delivery of Vendor comments on Technical Requirements and Guidance Documents (Task 5)

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Delivery of Final Report (Task 6)
- Presentation of Final Webinar (Task 6)

STATUS AND COMPLETION DATE:

The project is on track to be completed on budget. Due to staff availability changes related to parental leave, the Project PI is working with the Program Manager to monitor the project delivery schedule and determine if a modification to the project end date will be required.