

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** *Using Vegetation Management Practices Near Roads to Leverage the Benefits of Solar Radiation*

**OBJECTIVES:** Based on literature and field research, prepare a Vegetation Management Guide with recommendations regarding removal of roadside vegetation to benefit winter maintenance operations.

**PERIOD COVERED:** January 1 to March 31, 2024

**PARTICIPATING AGENCIES:** Minnesota Department of Transportation, Clear Roads Technical Advisory Committee, and Bolton & Menk.

**PROJECT MANAGER:**  
Hafiz Munir / Tom Peters

**LEAD AGENCY:** MnDOT

**PRINCIPAL INVESTIGATOR:**  
Carolyn Dindorf, Bolton & Menk

**ANNUAL BUDGET:** \$37,868.71  
**TOTAL BUDGET:** \$123,085.93

**SP&R PROJECT NO:**  
MnDOT Contract No.  
1054113

Federal Project Number:  
TPF-5(479)

**PROJECT IS:**

Planning  
 Research & Development

**PROJECT EXPENDITURES TO DATE:** \$ 0 (Expenditures for 1Q, 2024 not yet invoiced)

**WORK COMPLETED:**

- Coordination and planning with subcontractor, University of Minnesota
- Prepared for and held kickoff meeting.
- Planning for field monitoring site selection, monitoring methods, and data management.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

- Begin literature review.
- Identify potential field monitoring sites.
- Complete teleconference and quarterly report

**STATUS AND COMPLETION DATE:** This is the first quarter of the project. The project is on time and budget and due to be completed on January 31, 2026.