State Planning and Research Program
Quarterly Report

PROJECT TITLE: Develop Test Bed Software to Quality Plug & Play Technology

OBJECTIVES: Develop a software suite that will be used to validate and certify candidate Spreader Controllers and AVL Equipment for compliance with the current Clear Roads Universal In-Cab Performance Specification and Communications Protocol

PERIOD COVERED: 2018-01 to 2018-03

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

PROJECT MANAGER: Debra Fick/ Tom Peters **LEAD AGENCY**: Mn/DOT **PRINCIPAL INVESTIGATOR**: Sean Mulligan, Parsons	**SP&R PROJECT NO**: MnDOT Contract No. 132007 Federal Project Number: TPF-5(218)	PROJECT IS: _____ Planning X Research & Development

ANNUAL BUDGET: $108,160.67	**PROJECT EXPENDITURES TO DATE**: $ 6,030.03

WORK COMPLETED:
- Task 1 – Needs Assessment

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:
- Task 2 – Software Suite Development
- Task 3 – Pilot Test

STATUS AND COMPLETION DATE:

During the first quarter of 2018, testing of the website progressed well while testing and completion of the testing application stalled due to questions that arose during design review of the DPL documentation.

- Provided to Clear Roads at the time of this report is the current iteration test procedure to test the website. Initial issues that were discovered during the first pass of internal testing have been resolved.
- Also provided to Clear Roads is an example of the application icon that Parsons created for the Clear Roads AVL and Controller Application. The current Clear Roads logo was not suitable for the small screen area that the icon was needed for, so a Parsons graphic designer created an icon based on the Clear Roads logo for that purpose.
- The meeting to resolve the DPL issues took place on 2018-03-30 and sufficient decisions were made to continue with completion of the test application.
- As part of the meeting concerning the DPL, Parsons was asked to provide a set of edits and corrections to the DPL. The initial submission of those edits has been provided to Clear Roads.
- In addition, the Task 2 Design documents have also been submitted. Please note that the screenshots for the Web Portal have been updated in style since the design document. A current example of the main page of the Web Portal was also submitted to Clear Roads.

Current Schedule for Next Quarter
- 2018-04 – Complete updates to Device Test Application due to DPL changes and updates.
- 2018-05 – Complete test plan and initial testing of Device Test Application
- 2018-06 – Begin planning for Pilot Test.