UTC Project Information	
Project Title	Deterioration of Green Conflict Paint for Bicycle Facilities
University	University of Idaho
Principal Investigator	Emad Kassem
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Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans $20,000 University of Idaho $20,000
Total Project Cost	$40,000
Agency ID or Contract Number	69A3551747110
Start and End Dates	September 1, 2018-August 31, 2020
Brief Description of Research Project	Many cities in the Pacific Northwest are expanding their bicycle network to improve mobility. One recent innovation is the use of "green conflict" paint to improve bike lane visibility. The goal of is this project is to evaluate the performance of green conflict paint under simulated deterioration and different operating conditions, including rain and snow. The relevant PacTrans theme is Improved Reliability across Modes: decision support tools for winter road maintenance and performance under extreme conditions. We will test different green paint products (e.g., water-based and thermoplastic) under varying levels of simulated traffic and snow removal agitation. We will document at least seven measures of effectiveness (MOEs) including: 1. Friction - using a circular friction device 2. Texture depth - using a sand patch test 3. Daytime color – using 45/0 geometry chromatic device 4. Nighttime color – using a 30-m geometry chromatic device 5. Luminance – using an ASTM 2073 device 6. Percent loss – using high-resolution image analysis 7. Retroflectivity – using a MX30 retroflectometer

Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, or anticipated)	
Web Links • Reports • Project Website	