

Request for Research Funding for FY 2019-2020

Requesting Office	State Materials Office	Priority 8	7 of 11
Proposed Title	A Review of Florida's Raveling Condition Assessment and Measurement Methods for Open-Graded Friction Courses		
Justification	The raveling nature of open-graded friction course (FC-5) surfaces make it difficult to forecast pavement life. Research is needed to investigate if raveling can be assessed in a more comprehensive manner and appropriately accounted for in the Department's annual Pavement Condition Survey rating as well as in the subsequent pavement performance forecasting and resurfacing needs.		
Impact	Once FC-5 raveling initiates, the pavement surface often degrades rapidly and remaining life is difficult to forecast. An improved condition assessment method will improve the forecasts of remaining life and required Work Program funding. If not researched, existing forecasting difficulties will remain.		
Affected Offices	Materials, Pavement Design/Management, Maintenance		
Existing Work	Research on Florida's pavement condition rating system, particularly the aspect of raveling, has not been completed.		
Keywords Used In Existing Work Search (Cannot leave blank)	Raveling, Pavement Condition, Pavement Management		
Related Contracts (Give contract numbers)	None		
Funding Request	\$175,000	Anticipated Duration	24 months
Project Manager	James Greene	Contracting Method	RFP to all registered vendors
Urgency	3	This topic is critical to accurate forecasting and appropriating Work Program funding for resurfacing asphalt pavements.	
Implementability	2	An improved raveling rating and/or measurement system could be implemented after a short pilot program to verify the effectiveness.	
An improved raveling assessment method will provide more appropriate forecasting of remaining pavement life and appropriation of Work Program funding for asphalt pavement resurfacing.			
Project Benefits (Select all that apply and explain)	Quantifiable Benefits (units, dollars, etc...if applicable)	Methodology or Data Sources Used to Determine Quantifiable Benefits. If not applicable, please give justification of project benefits	
<input type="radio"/> Materials Enhancement			
<input type="radio"/> Materials Savings			

○ Time Savings		
○ Lives Saved/Injuries Prevented		
○ Other (Explain)	Money and time	An improved raveling assessment method will provide more appropriate forecasting of remaining pavement life and appropriation of Work Program funding for asphalt pavement resurfacing.

*Comments should explain and support urgency, financial benefit, and implementability scores