

FY 19/20 Request for Research Funding
January 21, 2020

D4-19-01	BDV31 977-126	Development of Florida Traffic Characteristics for Service Volume Calculations Based on latest HCM	Neil Lyn	Executed
D5-20-01		Improving Multimodal Traffic Safety for Six-Lane Arterial Highways	Brenda Young	Approved Scope under review
D6-20-02	BDV29 977-56	Assessing the Health Impacts of Complete Street Projects in Florida: Development and Application of an Assessment Tool	Neil Lynn	Executed
D7-20-01	BDV31 977-123	Evaluating the connection between transit and TNCs (Transportation Network Companies) in Pinellas County for statewide application	Ming Gao	Executed
CST-20-01		Temporary Low-Profile Barrier (LPB) Enhancements	Daniel Strickland	Approved On hold until crash testing project is done
FTO-20-01	BDV29 977-54	Evaluation and Enhancement of the Florida Statewide Model	Vladimir Majano	Executed
FTO-20-03		Microsimulation: Department Assessment and Guidance	Thomas Hill	Approved Scope under review
FTO-20-05		Investigation of E-Commerce Enabled Freight Demand and Activities in Residential Areas	Frank Collins	Approved Scope under review
GEO-20-01	BDV31 977-124	Field Load Testing of Florida Limestone, Phase II	Rodrigo Herrera/ David Horhota	Executed
GEO-20-02		Performance Testing of GRS Test Piers Constructed with Florida Aggregates – Axial Load Deformation Relationships	Larry Jones	Approved Scope under review
GEO-20-03		Field Investigation of Downdrag on Concrete Piles in Sandy Soil	Larry Jones	Approved Scope under review
GEO-20-04	BDV31 977-122	In-service Assessment of Road Sinkholes with 2D Ambient Noise Tomography	David Horhota	Executed
RD-20-02	BDV24 977-34	Identifying Mental Frameworks Underlying Driver Behavior in Urban Contexts	DeWayne Carver	Executed

SF-20-02		Understanding Florida Motorcycle Crashes and Injury Outcomes Using the Motorcycle Crash Causation Study (MCCS) Dataset	D7 Edith Peters / Joe Santos	Approved Scope under review
SF-20-03		Characterizing Curve Crashes in Florida	Joe Santos	Approved
SMO-19-03	BE912	Impact of Incentive/Disincentive Specifications on Long-Term Asphalt Pavement Performance	Bouزيد Choubane	Executed
SMO-19-09	BDV31 977-121	Use of Infrared Thermography for the Inspection of Welds in the Shop and Field - Phase II	Tim McCullough	Executed
SMO-20-01		Identification of the mechanisms that produce hydrogen embrittlement on post-tensioning members and the effects of galvanic coupling on bridge tendons	Matthew Duncan	Approved Scope under review
SMO-20-04		Performance Evaluation of SP-9.5 and SP-12.5 Superpave Mixtures	Wayne Rilko	Approved In Procurement
SMO-20-05		High Friction Surface Treatment (HFST) Synthesis for Florida Pavements	Charles Holzschuher	Approved In Procurement
SMO-20-06		Effects of Composition and Temperature Control Measures on Mass Concrete Durability	Pat Upshaw	Approved In Procurement
SMO-20-07		A Review of Florida's FC-5 Raveling Condition Assessment and Measurement Methods	James Greene	Approved In Procurement
SMO-20-08		Investigation into the contributing factors to the corrosion of steel reinforced concrete structures at elevations greater than 12 feet above the mean high water line	Ron Simmons	Approved Scope under review
SMO-20-10		Develop the procedures for welding and fabrication of weathering stainless-steel bridge to reflect the scope of the AASHTO/AWS D1.5. Bridge Welding Code.	Tim McCullough	Approved In Procurement
SMO-20-11		Assessment of Structural Steel Coating Applications	Chase Knight	Approved In Procurement
STR-20-01		Inspection of Flexible Filled Tendons	Will Potter / Ivan Lasa	Approved In Procurement
STR-20-02		Strength and Constructability of a Double Composite Steel Box Girder	Will Potter/Sam Fallaha	Approved In Procurement

STR-20-03		Evaluate Effects from Shored Construction on Steel Composite Bridges	Zachary Behring	Approved Procurement	In
STR-20-04		Update Vessel Past Point Data	Andre Pavlov / Sam Fallaha	Approved Scope under review	
STR-20-05		Temperature Effects in Match Cast Segmental Bridge Construction	Will Potter /Vicky Young	Approved May start date	
TEO-19-03	BDV24 977-35	Determining Sample Measures of Distracted Driving, Distracted Pedestrian Activities and Impacts of Such Behavior on Traffic Operations at Signalized Intersections	Jim Stroz / Alan El-Urfali	Executed	
TEO-20-01	BDV30 977-29	Feasibility Analysis of Real-time Intersection Data Collection and Processing Using Drones	Alan El-Urfali	Executed	
TEO-20-02		Identifying and Prioritizing Target Regions to Conduct Outreach Activities to Improve Safety and Mobility of Aging Population	Gail Holley	Approved Scope under review	
TEO-20-03	BDV25 977-66	Prioritized Safety Consideration by Work Zone Types and Pilot Implementation	Edith Wong	Executed	
TEO-20-04		Assessment of the Infrastructure Readiness for Connected Vehicle-to Infrastructure Applications on Arterial Streets	Derek Vollmer	Approved Scope under review	
TEO-20-05		Safety Performance of Managed Lane Separation Types	Jennifer Fortunas	Approved Scope under review	
TEO-20-06		Identify Sources and Risks on Cyber Security for Connected Vehicle Infrastructure	Daniel Buidens / Raj Ponnaluri	Approved Scope under review	
PTO-19-01		Improving Data Accessibility for Transit Service Planning	Gabe Matthews/Chris Wigglesworth	Approved Scope under further review by PM	