

FY 19/20 Request for Research Funding
March 31, 2020

D4-19-01	BDV31 977-126	Development of Florida Traffic Characteristics for Service Volume Calculations Based on latest HCM	Neil Lyn	Executed
		Autonomous Truck Mounted Attenuator (ATMA) Project	Tim Ruelke	Scope under review
	BDV31 977-130	Testing Methods to Assess the Durability of Concrete Permeability Reducing Admistrues	Ron Simmons	Executed
Mid-cycle	BDV31 977-127	Evaluation of East Gainesville's Microtransit Mobility Project	Chris Wigglesworth	Executed
Mid-cycle	BDV31 977-128	Develop, Refine, and Validate a Survey to Assess Adult's Perspectives of Autonomous Ride-Sharing Services	Gail Holley	Executed
Mid-cycle	BDV31 977-17	Crash Risk for Low-Income and Minority Populations: An Examination of At-risk Population Segments and Underlying Risk Factors	Mark Plass	Executed
D6-20-01	BDV29 977-55	A Synthesis on Data Mining Methods and Applications for Automated Fare Collection (AFC) Data	Neil Lyn	Executed
Mid-cycle	BDV31 977-129	MASH Validation Testing of Low Profile Barrier	Olivia Townsend	Executed
Mid-cycle		Testing Methods for the Next Generation of Concrete	Tim Ruelke	Scope under review
Mid-cycle	BDV31 977-125	Assessing Axial Capacities of Auger Cast Piles form Measuring While Drilling	Rodrigo Herrera	Executed
D5-20-01	BDV24 977-36	Improving Multimodal Traffic Safety for Six-Lane Arterial Highways	Brenda Young	Executed
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	BDV31 977-131	Performance Testing of GRS Test Piers Constructed with Florida Aggregates – Axial Load Deformation Relationships	Larry Jones	Executed
GEO-20-03	BDV25 977-67	Effects of Downdrag on Pile Performance	Larry Jones	Executed
GEO-20-04	BDV31 977-122	In-service Assessment of Road Sinkholes with 2D Ambient Noise Tomography	David Horhota	Executed
OPP-20-01		Assessment of Transportation Systems Resilience for Vulnerable Communities and Populations	Jennifer Carver	Approved Scope under review
OPP-20-02	BDV30 977-30	Development of Resilience Index for the Florida Transportation System	Jennifer Carver	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	Bouzid 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	BE928	Performance Evaluation of SP-9.5 and SP-12.5 Superpave Mixtures	Wayne Rilko	Approved Procurement
SMO-20-05	BE923	High Friction Surface Treatment (HFST) Synthesis for Florida Pavements	Charles Holzschuher	Executed
SMO-20-06		Effects of Composition and Temperature Control Measures on Mass Concrete Durability	Pat Upshaw	Approved Procurement

SMO-20-07	BE939	A Review of Florida's FC-5 Raveling Condition Assessment and Measurement Methods	James Greene	Executed
SMO-20-08	BDV27 977-18	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	Executed
SMO-20-09		Green Bike Lane Evaluation for Florida Pavements	Charles Holzschuher	Approved In Procurement
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 Procurement In
SMO-20-11	BE935	Assessment of Structural Steel Coating Applications	Chase Knight	Approved Procurement In
STR-20-01	BE932	Inspection of Flexible Filled Tendons	Will Potter / Ivan Lasa	Executed
STR-20-02	BE950	Strength and Constructability of a Double Composite Steel Box Girder	Will Potter/Sam Fallaha	Approved Procurement In
STR-20-03	BE929	Evaluate Effects from Shored Construction on Steel Composite Bridges	Zachary Behring	Executed
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	BDV29 977-57	Identifying and Prioritizing Target Regions to Conduct Outreach Activities to Improve Safety and Mobility of Aging Population	Gail Holley	Executed
TEO-20-03	BDV25 977-66	Prioritized Safety Consideration by Work Zone Types and Pilot Implementation	Edith Wong	Executed

TEO-20-04	BDV29 977-58	Assessment of the Infrastructure Readiness for Connected Vehicle-to Infrastructure Applications on Arterial Streets	Derek Vollmer	Executed
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