State Planning and Research Work Program
FFY 2026
(October 1, 2025 to September 30, 2026)

Part 1 - JP 01946(94) Planning

Part 2 - JP 01946(95) Research
LTAP - JP 30001(25)

Prepared by:
Oklahoma Department of Transportation
in cooperation with
US Department of Transportation
Federal Highway Administration

October 2025

Executive Summary

This document outlines the Federal Fiscal Year (FFY) 2026 State Planning and Research (SPR) Work Program for the Oklahoma Department of Transportation (ODOT), prepared and submitted in accordance with the provisions of Title 23, United States Code, and governed under 23 CFR Part 420. The work program is developed and updated annually in coordination with the Federal Highway Administration (FHWA). It is organized into two parts: Part 1 covers transportation planning projects, and Part 2 focuses on research, implementation activities, and participation in national pooled fund studies.

For FFY 2026, planning activities will include the implementation of a new Traffic Monitoring System, which will enhance traffic analysis and forecasting, improve traffic count scheduling, and streamline automatic data processing for permanent count locations.

In addition, ODOT's GIS Program will integrate new software incorporating artificial intelligence (AI) to enhance asset inventory accuracy and streamline annual reporting processes. These upgrades aim to improve operational efficiency and data-driven decision-making across the agency. Funding for Part 1 of the work program is set at $18 million for FFY 2026, supporting continued innovation in transportation planning and data systems that better serve the traveling public. For Federal Fiscal Year (FFY) 2026, over $5.6 million is allocated toward research and technology transfer activities, reflecting the ODOT's continued commitment to innovation and knowledge advancement in transportation.

Together, these investments represent a comprehensive and strategic approach to advancing transportation research, technology transfer, and implementation initiatives across the state and region, major items are highlighted below.

- Research Projects: A total of $3.2 million is dedicated to research activities, including seven continuing research projects and the addition of three new research projects.
- Implementation Projects: Funding will also support two ongoing implementation projects, with the initiation of one new implementation project.
- Southern Plains Transportation Center (SPTC-UTC): ODOT will provide $1 million in State Planning and Research (SPR) funds to support the SPTC at the University of Oklahoma.
- Pooled Fund Studies: ODOT actively participates in 28 pooled fund studies, which continue to offer valuable knowledge and collaborative benefits. Oklahoma serves as the lead state for two of these studies, with total contributions between all polled funds to $1.8 million.
- Local Technical Assistance Program (LTAP): In partnership with Oklahoma State University and with support from FHWA, SPR funds, and ODOT, the LTAP program will receive $765,040 in funding.

Detailed projects for each section of the work program are organized by item number and include descriptions of the purpose, scope, and planned activities for FFY 2026. The Financial Section provides a comparison of the funding amounts programmed in the previous work program for FFY 2025 and the projected costs for FFY 2026. Additionally, a comprehensive Annual Performance and Expenditure Report outlining the accomplishments and funds expended during FFY 2025 will be completed and submitted to the Federal Highway Administration (FHWA) for review by December 31, 2025.

U.S. Department of Transportation
Federal Highway Administration

Oklahoma Division

5801 N. Broadway Ext. Ste. 300
Oklahoma City, OK 73118
Phone: 405-254-3300
Fax: 405-254-3302
www.fhwa.dot.gov/okdiv

September 18, 2025

In Reply Refer To:
HDA-OK

Tim Gatz
Executive Director
Oklahoma Department of Transportation
200 NE 21st Street
Oklahoma City, OK 73105

Dear Mr. Gatz,

The Federal Highway Administration (FHWA) Oklahoma Division has completed its review of the Oklahoma Department of Transportation's (ODOT) proposed Fiscal Year (FY) 2026 State Planning and Research (SPR) Part I (Planning) and Part II (Research) Work Programs and Budget submitted on September 16, 2025. We are pleased to inform you that we have approved the FY 2026 SPR Part I and Part II Work Programs and Budgets.

The Approved Budgets are as follows:

- FY 2026 SPR Part I – Planning: $18,649,025
- FY 2026 SPR Part II – Research: $6,160,002

Please note that the Part I budget is allocated for planning and planning-related activities, while the Part II budget covers Research, Research Implementation projects, Pooled Fund Studies, Southern Plains Transportation Center (SPTC), and the Local Technical Assistance Programs (LTAP).

The Part I budget shows a 28% increase from the FY 2025 budget. This growth is driven by a 17% increase in Traffic and Data Collection activities, and a 44% increase in Pavement Management Systems, and a 125% increase in Statewide Long-Range Plan and Other planning activities. Detailed explanations for these variations are provided in the project task descriptions within the FY 2026 SPR Work Program Document. The proposed FY 2026 SPR Part II budget remains at 25%, meeting the statutory requirement, and reflects a slight decrease of 2% from the previous year.

Thank you for preparing the FY 2026 State Planning and Research Work Programs and Budgets. We appreciate your prompt responses to our inquiries during the review process and look forward to collaborating with you on implementing the approved work programs. We also anticipate receiving the Annual Performance and Expenditure Report (APER) to review the outcome of the projects and activities included in the FY 2025 SPR Work Program.

Please do not hesitate to contact Mr. Viplav Reddy, Acting Community Planner at (405)254-3340 or viplav.reddy@dot.gov regarding SPR Part I questions, or Mr. Waseem Fazal, Program

Development Team Leader at (405)254-3332 or waseem.fazal@dot.gov regarding SPR Part II questions related to this work program approval.

Sincerely,

Souzan Bahavar
Division Administrator

cc:

Dawn Sullivan, Deputy Director, ODOT
Beckie Lyons, SPR Program Manager, ODOT
Zach Gutierrez, Deputy Division Administrator, FHWA
Waseem Fazal, Program Development Team Leader, FHWA
Viplav Reddy, Acting Community Planner, FHWA

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PARTICIPATING - ACTIVE POOLED FUNDS

State Planning and Research Program

Management October 1, 2025

Deputy Director

Dawn R. Sullivan, P.E.
Deputy Director
dsullivan@odot.org

Beckie Lyons, CPO, CPM
SPR Program Manager
(405) 514-1642
beckie.lyons@odot.ok.org

SPR Part 1 – Planning

GIS and Data Management Projects
Lance Underwood, MBA
(405) 738-7688
lancem.underwood@odot.ok.gov

Traffic and Data Collection Projects
Cody Hamblin, P.E.
(405) 227-6425
chamblin@odot.org

System and Program Projects
Angel Gonzalez, P.E.
(405) 437-5688
aagonzalez@odot.org

Urban/Regional Transportation /Long Range Planning and Other Projects Laura Chaney – Planning Branch Manager
(405) 819-3719
lchaney@odot.org

SPR Part II – Research

Tara Cullum
Deputy Chief of Innovation
tcullum@odot.org

OKLAHOMA DEPARTMENT OF TRANSPORTATION
State Planning & Research (SPR) Financial Summary Sheet Federal Fiscal Year 2026
Program Period October 1, 2025 through September 30, 2026

SPR Part 1 - Planning, SPRY-0010(096)PL, JP# 01946(94)			
A. Estimated Costs			
SPR Part 1 - Planning		$	18,623,862.60
	Total Estimated Costs	**$**	**18,623,862.60**
B. Available Funds			
SPR Part 1 Unobligated Balance		$	22,419,465.00
	Total Available Funds	**$**	**22,419,465.00**
C. Proposed Financing			
			Total
		$	18,623,862.60
	Total Proposed Financing JP # 01946(94)	**$**	**18,623,862.60**
SPR Part 2 - Research, SPRY-0010(097)RS, JP# 01946(95)			
A. Estimated Costs			
SPR Part 2 - Research		$	3,215,400.00
LTAP - SPR -JP# 30001(25)		$	555,040.00
	Total Estimated Cost	**$**	**3,770,440.00**
B. Available Federal Funds			
SPR Part 2 Unobligated Balance		**$**	**3,651,240.00**
SPR Part 1 Unobligated Balance (remainder)		**$**	119,200.00
	Total Available Funds	**$**	**3,770,440.00**
C. Proposed Financing			
			Total
	Total Proposed Financing 01946(95)	**$**	**3,215,400.00**
SPR Part 1 & Part 2 Totals			
Total SPR Unobligated Balance		**$**	**22,394,302.60**
Total SPR Part 1		**$**	**18,623,862.60**
Total SPR Pooled Fund Commitments		**$**	**1,834,522.00**
Total SPR Research Funding		**$**	**3,215,400.00**
Total Part 2 Research & LTAP		**$**	**3,770,440.00**
% of SPR Funds for Research			**25%**

***Chart updated 9/23/2025**

FINANCIALS: *Soft Match Credit (SMC) – allows states to use capital expenditures made by toll facilities as a “soft match” for federal funds, meaning they do not provide additional money but can reduce the non-federal share requirement. SMC refers to a type of non-cash contribution.

SP&R PART 1 - Planning, SPRY-0010(096)PL, JP# 01946(94)

FEDERAL FISCAL YEAR 2026

		PROGRAMMED				
GIS AND DATA MANAGEMENT		**SP&R**	**SMC***	**PL**	**Local**	**Total Obligated**
1101	Continuing Inventory Data Studies	$593,800.00	$0.00	$0.00	$0.00	$593,800.00
1102	Highway Performance Monitoring System	$100,900.00	$0.00	$0.00	$0.00	$100,900.00
1103	Geographical Information Management System for Transportation	$2,500,325.00	$0.00	$0.00	$0.00	$2,500,325.00
	TOTAL GIS AND DATA MANAGEMENT	**$3,195,025.00**	**$0.00**	**$0.00**	**$0.00**	**$3,195,025.00**
TRAFFIC AND DATA COLLECTION						
1301	Coverage Count Program	$1,095,000.00	$0.00	$0.00	$0.00	$1,095,000.00
1302	Permanent Traffic Count Program	$1,660,000.00	$0.00	$0.00	$0.00	$1,660,000.00
1304	Purchase of Traffic Count Equipment	$1,695,000.00	$0.00	$0.00	$0.00	$1,695,000.00
1305	Vehicle Classification Counting Program	$1,030,000.00	$0.00	$0.00	$0.00	$1,030,000.00
1308	Traffic Monitoring System	$408,000.00	$0.00	$0.00	$0.00	$408,000.00
1309	Traffic Analysis and Projections	$245,000.00	$0.00	$0.00	$0.00	$245,000.00
	TOTAL TRAFFIC AND DATA COLLECTION	**$6,133,000.00**	**$0.00**	**$0.00**	**$0.00**	**$6,133,000.00**
ECONOMIC, SAFETY, AND FISCAL STUDIES						
1405	Motorcycle Safety and Education Program	$70,000.00	$0.00	$0.00	$0.00	$70,000.00
	TOTAL ECONOMIC, SAFETY AND FISCAL STUDIES	**$70,000.00**	**$0.00**	**$0.00**	**$0.00**	**$70,000.00**
SYSTEMS AND PROGRAMS						
1604	Pavement Management Systems	$2,830,837.60	$0.00	$0.00	$0.00	$2,830,837.60
	TOTAL SYSTEMS AND PROGRAMS	**$2,830,837.60**	**$0.00**	**$0.00**	**$0.00**	**$2,830,837.60**
URBAN / REGIONAL TRANSPORTATION PLANNING						
1700	General Urban Transportation Planning Activities	$70,000.00	$0.00	$0.00	$0.00	$70,000.00
1701	Oklahoma City Area Regional Transportation Study (	$40,000.00	$0.00	$2,397,783.00	$599,446.00	$3,037,229.00
1702	Tulsa Metropolitan Area Transportation Study	$40,000.00	$0.00	$1,700,000.00	$425,000.00	$2,165,000.00
1703	Lawton Metropolitan Area Transportation Study	$40,000.00	$0.00	$137,328.00	$34,332.00	$211,660.00
1704	Chisholm Trail Metro Planning Organization	$50,500.00	$0.00	$187,500.00	$46,875.00	$284,875.00
1709	Ft. Smith Transportation Study	$10,000.00	$0.00	$36,375.00	$8,942.00	$55,317.00
1710	Regional Transportation Planning	$1,053,000.00	$0.00	$0.00	$225,000.00	$1,278,000.00
	TOTAL URBAN TRANSPORTATION PLANNING	**$1,303,500.00**	**$0.00**	**$4,458,986.00**	**$1,339,595.00**	**$7,102,081.00**
LONG RANGE PLAN / OTHER PLANNING ACTIVITIES						
1719	Statewide Transportation Improvement Program	$499,000.00	$0.00	$0.00	$0.00	$499,000.00
1720	Statewide Travel Demand Model	$609,000.00	$0.00	$0.00	0,00	$609,000.00
1730	Connected and Autonomous Vehicle (CAV) working	$78,500.00	$0.00	$0.00	$0.00	$78,500.00
1902	Statewide Long Range Transportation	$1,580,000.00	$0.00	$0.00	$0.00	$1,580,000.00
1904	Air Quality Transportation Planning	$8,000.00	$0.00	$0.00	$0.00	$8,000.00
1905	Freight Planning	$895,000.00	$0.00	$0.00	$0.00	$895,000.00
1913	Active Transportation Planning	$275,000.00	$0.00	$0.00	$0.00	$275,000.00
1914	Transportation Asset Management Plan	$767,000.00	$0.00	$0.00	$0.00	$767,000.00
1915	Performance Measurement Coordination	$380,000.00	$0.00	$0.00	$0.00	$380,000.00
	TOTAL OTHER	**$5,091,500.00**	**$0.00**	**$0.00**	**$0.00**	**$5,091,500.00**
		$18,839,762.60				
	GRAND TOTAL SPRY-0010(96)PL	**$18,639,762.60**	**$0.00**	**$4,458,986.00**	**$1,339,595.00**	**$24,422,443.60**

updated 9.23.2025

FINANCIALS: *Soft Match Credit (SMC) – allows states to use capital expenditures made by toll facilities as a “soft match” for federal funds, meaning they do not provide additional money but can reduce the non-federal share requirement. SMC refers to a type of non-cash contribution.

1101 Continuing Inventory Data Studies

PURPOSE AND SCOPE: Catalog physical characteristics of statewide public roads which are used to update the Department's ESRI Roads & Highways Database. Conduct meetings with County Commissioners relating to inventory modifications. Inventory modifications are also based on completed construction projects and County Action Reports. Use SQL queries, procedures and reports to extract inventory data to publish various mileage reports for state, federal and public needs. Maintain data for the National Network of Defense, NHS System, Control Section and Public Roads. Produce AVMT figures that will be used to calculate Annual Accident and Fatality Rates. Keep abreast of the latest technological advances through the attendance of seminars and conferences. The staff managing this item now handles workflows from SPR Item 1601.

PROPOSED ACTIVITIES FOR FFY 2026: Incorporate technological advancements in data collection to streamline inventory operations. Continue monitoring all County Action Reports, Highway Construction projects and continue collecting HPMS data items. Upgrade the Department's ESRI Roads & Highways implementation from ArcMap to the most current version of ArcGIS Pro. Compile and publish various state and federal reports including: 2025 Certification of County Road Mileage, 2024 Oklahoma Statewide Statistics Book, 2024 HPMS Mileage and Travel Summary Tables.

FINANCIALS	**Amount**
Programmed Amount FFY 2025	$ 611,200
Estimated Cost FFY 2026	$ 593,800

CONTACT INFORMATION

Alexander Couch, LRS Manager, GIM III 405-421-4184

1102 Highway Performance Monitoring System

PURPOSE AND SCOPE: To collect, process, and compile data and information as needed to prepare and submit an accurate and timely HPMS submission to the Federal Highway Administration (FHWA according to the reporting requirements established.

PROPOSED ACTIVITIES FOR FFY 2026: A HPMS sample adequacy review will be conducted, and additional samples will be added in the appropriate categories. Any changes in the HPMS data structure and HPMS console interface as required by changing FHWA requirements will be implemented and tested. Field review documents will be generated, and a HPMS data field review will be conducted in cooperation with the Local FHWA Division. The 2025 HPMS data submittal will be transmitted to FHWA using our latest HPMS Console and will be consistent with the latest FHWA Version 9 web-based software.

FINANCIALS	**Amount**
Programmed Amount FFY 2025	$107,200
Estimated Cost FFY 2026	$100,900

CONTACT INFORMATION

Colton Snelling, HPMS Coordinator, GIM II 405-628-8934

1103 Geographical Information Management System for Transportation

PURPOSE AND SCOPE: To design, develop, implement and maintain a Geospatial Information Management System for Transportation (GIMS-T. The system supports transportation related decision making by producing high quality map products and reports generated from enterprise data as well as geospatial data management for various ODOT divisions. The maps convey specific topics of interest that require customer input and the use of complex GIS software. GIS services are offered to ODOT staff as well as customers others as requestedutside the Department. The system utilizes aerial photography, GPS, and other sources of data. The efficient use of resources requires a considerable investment in hardware, software, and training for GIMS-T staff. New methods and software are continuously being investigated and tested in order to improve the effectiveness, efficiency, and usability of the Departments applications.

PROPOSED ACTIVITIES FOR FFY 2026: Continue to expand the Map & Data Portal and dashboards. Update Asset Inventory to current year and begin implementation of AI technology to expedite and improve Asset Inventory yearly processes. Support GIS cross-functional team through staffing and software systems to assist in implementation and support of maintenance, traffic safety, environmental, planning, design, project delivery, and traffic data systems. Continue the ROW digitization effort. Expand software licensing and existing data-set utilization to support data driven project planning expansions. Continue to provide support to ODOT personnel with mapping and other products to assist them in their transportation needs. Coordinate with all business units to identify needs and develop solutions that will enable them to efficiently and accurately perform their individual missions through cross-functional GIS deployment. Continue training staff.

FINANCIALS	**Amount**
Programmed Amount for FFY 2025	$3,140,000
Estimated Cost for FFY 2026	$2,500,325

CONTACT INFORMATION

Gwen Johnson, GIS Mapping & Analytics Branch Manager, 405-416-3871

1301 Coverage Count Program

PURPOSE AND SCOPE: To collect traffic data on state highways, national highways, interstates and the National Functional Classified System for establishing average daily traffic volumes. Approximately 3,300 short duration locations are counted on the highway system and 11,700 on the secondary system that includes the county road coverage and urban city street coverage in cities with populations over 5,000. State highway and interstate locations are counted on a three-year cycle twice a year along with portions of the county and city system coverage once a year. Counts collected on the highway system are incorporated into an Annual Average Daily Traffic (AADT map published annually for distribution. Counts collected on the county and city systems are then recorded and retained for office and public use. Highway traffic maps are published for public distribution.

PROPOSED ACTIVITIES FOR FFY 2026: Continue to analyze all road systems for areas where coverage is deficient, establish new count locations as needed and retire locations that are no longer needed. Collect short duration traffic counts on the Highway System, County Off-System and small urban Off-System in the 27 counties scheduled for FFY 2026. Collect all requested special studies statewide including turning movement, roundabout and Automatic Traffic Recorder (ATR) counts utilizing the Miovision scout plus system and road tube counters. These counts will be conducted throughout the year providing timely data for traffic engineers, planners and designers in the department's central office divisions as well as for traffic engineers, construction and maintenance managers in the eight field districts. Update GPS coordinates and site characteristics for all traffic count sites on all systems as needed. Attend seminars, conferences and workshops to keep abreast of the latest technological advances in traffic counting equipment and data collection processes. Upgrade the TCMS (Traffic Count Management System) application contract for the new traffic counters, brand and model when determined.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$735,000
Estimated Cost FFY 2026	$1,095,000

CONTACT INFORMATION:

Aaron Fridrich, Field Data Collection Manager, 405-567-7876
Kendal Theisen, Assistant State Traffic Engineer, 405-243-1630

1302 Permanent Traffic Count Program

PURPOSE AND SCOPE: To collect hourly and 15 minute increment traffic data by lane for traffic monitoring design needs. There are currently 92 Automatic Vehicle Classification (AVC and 150 radar station locations in Oklahoma. The traffic data obtained by these AVC sites are the basis for seasonal and axle factor variation as recommended for traffic monitoring in FHWA's Traffic Monitoring Guide. A biennial traffic characteristic report is generated from the data collected at these sites.

PROPOSED ACTIVITIES FOR FFY 2026: The Radar Installation Contract was renewed for FFY 2026 to install an additional 45 new radar sites. Under the TMS Data Collection Connectivity Contract, the 223 currently installed radar AVC units' data will be collected and cell service provided. The 45 new radar sites installed in FFY 2026 will be serviced by Houston Radar. Under the TMS Maintenance and Repair Contract, existing in-ground AVC sensors will be replaced at selected locations. The TMS Site Repair Contract will allow some repairs at most sites as needed and data will continue to be collected by both the radar unit and the in-ground AVC sensors until such time that the in-ground sensors require excessive maintenance. At this time, the in-ground AVC site will be monitored for repairs or discontinued, and the radar unit will be the sole permanent data collection mechanism. Additionally, several AI camera systems may be installed to replace discontinued AVC sites.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$1,585,000
Estimated Cost FFY 2026	$1,660,000

CONTACT INFORMATION:

Aaron Fridrich, Field Data Collection Manager, Phone: 405-567-7876
Kendal Theisen, Assistant State Traffic Engineer, 405-243-1630

1304 Purchase of Traffic Counting Equipment

PURPOSE AND SCOPE: To improve the efficiency of the traffic counting operation by systematic replacement of older outdated equipment and stolen or damaged equipment as well as support of increased equipment requirements resulting from expanded operations.

PROPOSED ACTIVITIES FOR FFY 2026: The proposed construction and installation of new radar traffic monitoring stations, replacement of old equipment and the purchase additional counters to outfit personnel comprises the majority of the expenditures for FFY 2026. As older, outdated data recorders become uneconomically repairable and obsolete, timely replacement becomes vital to maintaining data integrity and continuity of operations in the permanent traffic monitoring stations and particularly the short duration count program which depends on hardware availability and continuous replacement of road tubes and accessories. Item 1304 includes the purchase of radars, modems, server and all associated equipment needed for the 45 additional radars to be installed by ODOT contractor and spare radar systems for when sites are needing repairs, along with the purchase of 10 to 15 AI camera systems.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$1,460,000
Estimated Cost FFY 2026	$ 1,695,000

CONTACT INFORMATION:

Aaron Fridrich, Field Data Collection Branch Manager, 405-567-7876
Kendal Theisen, Assistant State Traffic Engineer, 405-243-1630

1305 Vehicle Classification Counting Program

PURPOSE AND SCOPE: To gather vehicle classification data and develop estimates of the composition of traffic on the various Functional Classifications of roadways in the state and to collect complex traffic data required for planning, traffic and design studies. Data gathered and used to facilitate these studies includes machine counts, vehicle classification counts and turning movement studies with pedestrian counts.

Proposed Activities for 2026: ODOT Contractor GHA (Gewalt Hamilton Associates) will be responsible for the collection of all short duration classification counts statewide in the 27 counties scheduled for FFY 2026 including ramps. Continue to provide resources to fulfill the requests for various types of traffic studies and produce all reports associated with those studies.

FINANCIALS	AMOUNT
Programmed Amount FFY 2025	$695,000
Estimated Cost FFY 2026	$1,030,000

CONTACT INFORMATION:

Aaron Fridrich, Field Data Collection Manager, 405-567-7876
Kendal Theisen, Assistant State Traffic Engineer, 405-243-1630

1308 Traffic Monitoring System

PURPOSE AND SCOPE: To manage, estimate, report, and publish traffic data estimates as specified in the Highway Performance Monitoring System (HPMS) Manual and the Federal Highway Administration (FHWA) Traffic Monitoring Guide. The program also provides design traffic analysis and forecasts for new highways, planning functions, and improvement of the existing highways. Writing specifications, review and corrections, and approval of consultant engineering contract design traffic projects and research projects are performed as needed. Economic, environmental, and other factors of roadway improvements such as interchanges, realignments, and pedestrian structures are studied for the purpose of determining the economic and engineering feasibility of such proposals.

PROPOSED ACTIVITIES FOR FFY 2026: MS2 has been selected as ODOT's new Traffic Monitoring System. This software will provide updates and efficiencies that the outdated software was unable to deliver. Functions of this software include, but are not limited to, traffic analysis and forecasting, traffic count scheduling, automatic data processing for permanent count sites, and FHWA HPMS traffic reporting. This software provides a singular interface to process, monitor, and manage all collected traffic data. The software was successfully adopted in April of 2025 and will be used as the traffic database going forward.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$700,000
Estimated Cost FFY 2026	$408,000

CONTACT INFORMATION:

Cody Hamblin, Traffic Planning & Analytics Engineering Manager, 405-227-6425
Kendal Theisen, Assistant State Traffic Engineer, 405-243-1630

1309 Traffic Analysis and Projections

PURPOSE AND SCOPE: To provide traffic analysis and forecasts for geometric and structural design of new highways, roadway planning functions, roadway maintenance, and improvement of existing highways. To write specifications and to review, correct, and approve consultant work for engineering contract design traffic projects as well as research projects.

PROPOSED ACTIVITIES FOR FFY 2026: Design traffic data will continue to be furnished for cities, counties, and to ODOT divisions upon approved requests. Consultant design projects as well as feasibility and justification studies will be overseen through completion. Traffic analysis and projections will be completed, as requested for all programmed planning, construction, and maintenance projects. Remain informed of technological advances through attendance of seminars, conferences, and workshops. Additionally, these efforts include the review and maintenance of the MS2 software from the ODOT side, ensuring data quality.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$170,000
Estimated Cost FFY 2026	$245,000

CONTACT INFORMATION:

Cody Hamblin, Traffic Planning and Analytics Engineering Manager, 405-227-6745
Kendal Theisen, Assistant State Traffic Engineer, 405-243-1630

1405 Motorcycle Safety & Education Program

Purpose and Scope: The statewide motorcycle safety and education program seeks to reduce motorcycle crashes that result in fatalities and injuries. The program focuses on educating motorcyclists about safe riding habits and techniques to prevent crashes. The Oklahoma Highway Patrol (OHP), in coordination with the ODOT Traffic Engineering Division's Collision Analysis. Conduct motorcycle safety course and participate in education, outreach, and public awareness activities as a means of improving motocycle user safety on the public roadways.

PROPOSED ACTIVITIES FOR FFY 2026: The Oklahoma Highway Patrol, in partnership with ODOT, will continue implementation of the statewide motorcycle safety and education program. The program will include 10 classroom and experiential educational training and public outreach and awareness. OHP will use ODOT collision data to examine program effectiveness and use variables such as age, locations, types of crash etc., to further refine program strategies.

FINANCIALS	**Amount**
Programmed Amount FFY 2025	$67,000
Estimated Cost FFY 2026	$70,000

CONTACT INFORMATION:

James Farris, Traffic Division, 405-623-1192

1604 Pavement Management System

PURPOSE AND SCOPE: To develop and implement the Department's Pavement Management System. To maintain a computer database of pavement distresses and other roadway characteristics used for the analysis of pavement condition and performance. Maintain application software necessary to analyze roadway information for pavement management. Supply data for inclusion in the Highway Performance Monitoring System (HPMS). Maintain a database indicating ratings for roadways with suggested improvements and costs.

PROPOSED ACTIVITIES FOR FFY 2026: Perform Pavement Management System collection and analysis on all NHS and SHS routes in Oklahoma as well as all non-highway samples required for HPMS. Conduct data quality testing to ensure pavement data quality. Continue refinement of analysis for deterioration curves, pavement strategies, and project optimization utilized by the pavement management software. Provide technical support for the video log software. Document Pavement Management processes by providing training for Collection, Analysis, and Reporting. Keep informed of the latest technological advances and practices by attending meeting, webinars and workshops. Proposed increase in cost for FY2026 due to new pavement data collection contract.

FINANCIALS	AMOUNT
Programmed Amount FFY 2025	$1,980,000
Estimated Cost FFY 2026	$ 2,830,837.60

CONTACT INFORMATION

Angel Gonzalez, Assistant Maintenance Division Engineer-Pavement Mgmt., 405-437-5688

1700 General Urban Transportation Planning

PURPOSE AND SCOPE: To coordinate transportation planning efforts that cannot be ascribed to specific transportation studies contained in the unified planning work programs of the State Planning and Research Work Program. To provide linkage between transportation planning and project development, environmental review, and other topics as needed.

PROPOSED ACTIVITIES FOR FFY 2026: Provide coordination with ODOT Central Office, field districts and local, state and federal officials. Disseminate pertinent planning data and information as needed. Provide technical assistance as requested concerning transportation planning and the Infrastructure Investment and Jobs Act. Build upon staff knowledge through attendance at workshops, seminars and conferences.

FINANCIALS	AMOUNT
Programmed Amount FFY 2025	$90,000
Estimated Cost FFY 2026	$70,000

CONTACT INFORMATION

Laura Chaney, Planning Branch Manager, 405-819-3719

1701 Oklahoma City Area Regional Transportation Study

PURPOSE AND SCOPE: Assist and oversee transportation planning processes and coordination with the Association of Central Oklahoma Governments (ACOG) in the execution of the Unified Planning Work Program (UPWP), Transportation Improvement Program (TIP), and Long Range Transportation Planning (LRTP) for the Oklahoma City Area Regional Transportation Study Area (OCARTS).

PROPOSED ACTIVITIES FOR FFY 2026: Development of data for the 2050 Metropolitan Transportation Plan; update of the Congestion Management Process (CMP); continued implementation of the ACOG MPO Active Transportation Plan and Complete Streets Policy; update of the FFY 2026-2029 ACOG MPO TIP and continued coordination with local governments regarding federal transportation funding opportunities. Other priorities entail continued continuation of the bicycle and pedestrian public safety campaign in coordination member local governments; creation of the Regional Electric Vehicle Infrastructure Strategic Plan & Fleet and Facility Assessment Study in partnership with Oklahoma City and other area stakeholders; review of MPO public outreach efforts leading to an update of the Public Participation Plan (PPP) and support of outreach strategies for the 2050 MTP; collaboration the Oklahoma City Community Foundation (OCCF), OKC Beautiful and other stakeholders on the development of tree planting grant; compliance with the federal transportation law; and monitor emerging transportation system issues and technologies. The work program recognizes a continuation of data collection efforts through subcontracts with Oklahoma City, Choctaw, Edmond, Norman, Moore, and Midwest City.

FINANCIALS	**Amount**	**Fund**	**Amount**	**Fund**	**Amount**	**Fund**
Programmed Amount FFY 2025	$40,000	SPR	$2,398,625	PL	$599,656	LOCAL
Estimated Cost FFY 2026	$40,000	SPR	$2,397,783	PL	$599,466	LOCAL

CONTACT INFORMATION

Laura Chaney, Planning Branch Manager, 405-819-3719

1702 Tulsa Metropolitan Area Transportation Study

PURPOSE AND SCOPE: Assist and oversee transportation planning processes and coordination with the Indian Nations Council of Governments (INCOG) in the execution of the Unified Planning Work Program (UPWP), Transportation Improvement Program (TIP), and Long Range Transportation Planning (LRTP) for the Tulsa Transportation Management Area (TMA).

PROPOSED ACTIVITIES FOR FFY 2026: Continue data collection and monitoring of social, economic and environmental factors that directly relate to the transportation system. Address multi-modal transportation issues within the Tulsa Metropolitan Area (TMA) aimed at maintaining a continuing, coordinated and comprehensive planning process. Responsible for preparing and maintaining the Regional Transportation Plan (RTP). Focus areas for FY 2026 will include: Implementation of the 2050 Regional Transportation Plan. Finalize and accept the updated GO! Plan for 'active' transportation. Continue to maintain the 2024-2027 TIP to reflect any new projects or changes to existing projects and develop a new TIP for FFY 2026 to 2029. Update the Congestion Management Plan (CMP) and the regional transit system plan with assistance from a competitively selected consultant team. Continue coordinating the OZONE ALERT! Program & the Clean Cities Program. Develop a new Coordinated Public Transit and Human Services Transportation Plan.

FINANCIALS	Amount	Fund	Amount	Fund	Amount	Fund
Programmed Amount FFY 2025	$40,000	SPR	$1,680,000	PL	$420,000	LOCAL
Estimated Cost FFY 2026	$40,000	SPR	$1,700,000	PL	$425,000	LOCAL

CONTACT INFORMATION

Laura Chaney, Planning Branch Manager, 405-819-3719

1703 Lawton Metropolitan Area Transportation Study

PURPOSE AND SCOPE: Assist and oversee transportation planning processes and coordination with the Lawton Metropolitan Planning Organization (LMPO) in the Lawton Metropolitan area.

PROPOSED ACTIVITIES FOR FFY 2026: As defined in the FY 2026 UPWP, continue coordination with LATS General Manager, consultant, and City Transit Trust on the design concept for the transit center. Maintain the FFY 2024-2027 TIP through modifications and amendments. Monitor the consultant for the Micro-Transit Plan. Review and update the 2010 Bicycle and Pedestrian Plan. Monitor performance measures targets. Continue the public awareness campaign for air quality. Analyze pedestrian facilities to include pedestrian crossings. Continue the bicycle safety education campaign.

FINANCIALS	Amount	Fund	Amount	Fund	Amount	Fund
Programmed Amount FFY 2025	$40,000	SPR	$153,484	PL	$38,371	LOCAL
Estimated Cost FFY 2026	$40,000	SPR	$137,328	PL	$34,332	LOCAL

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1704 Chisholm Trail Metropolitan Planning Organization

PURPOSE AND SCOPE: Assist and oversee transportation planning processes and coordination with the Chisholm Trail Metropolitan Planning Organization (CTMPO) in the Enid Metropolitan area.

PROPOSED ACTIVITIES FOR FFY 2026: Continue addressing federal planning requirements outlined in 23 CFR 450, including but not limited to: Functional Class revisions, Annual List of Obligated Projects, update the TIP, and begin development of the Metropolitan Transportation Plan

FINANCIALS	**Amount**	**Fund**	**Amount**	**Fund**	**Amount**	**Fund**
Programmed Amount FFY 2025	$50,500	SPR	$100,000*	PL	$24,375	LOCAL
Estimated Cost FFY 2026	$50,500	SPR	$187,500*	PL	$46,875	LOCAL

***Includes 2.5% set aside for complete streets planning activities which are 100% federally funded**

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1709 Ft. Smith Transportation Study

PURPOSE AND SCOPE: Assist and oversee transportation planning processes and coordination with the Frontier Metropolitan Planning Organization in the Ft. Smith Metropolitan Area.

PROPOSED ACTIVITIES FOR FFY 2026: Amend the 2045 Metropolitan Transportation Plan (MTP) as required and track activities and tasks, update the Regional Pedestrian Bicycle Plan(s) as needed, monitor safety needs and initiatives, coordinate land use and transportation planning, conduct preliminary review and analysis of complete street design to ensure compatibility with adjacent land uses and all modes of users, evaluate crash data within the metropolitan planning area and coordinate its use with ARDOT and ODOT to meet MAP-21 performance measures, implement performance standards as part of MAP-21 compliance, continue implementation of the Public Participation Plan, conduct annual transit ridership satisfaction surveys for FST, seek opportunities to promote and coordinate transportation mobility options for the region, and engage in local, regional, and statewide coordination.

FINANCIALS	**Amount**	**Fund**	**Amount**	**Fund**	**Amount**	**Fund**
Programmed Amount FFY	$18,000	SPR	$29,997*	PL	$7,343	LOCAL
2025 Estimated Cost FFY 2026	$10,000	SPR	36,375*	PL	$8,942	LOCAL

* Includes 2.5% set aside for complete streets planning activities which are 100% federally funded.

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1710 Regional Transportation Planning

PURPOSE AND SCOPE: To provide transportation planning assistance for the non-metropolitan areas of the State. The regional transportation planning program will assist ODOT in meeting federal and state requirements for the Statewide Planning Process to address the transportation needs in non-metropolitan areas and provide ongoing public participation.

PROPOSED ACTIVITIES FOR FFY 2026: The Oklahoma Department of Transportation will continue coordination with the RTPOs in maintaining the continuous, cooperative, and comprehensive (3C) planning process in non-metropolitan areas of the state. RTPOs will continue staff education, training, and attendance at workshops and seminars. Key activities include assisting in public outreach, data collection, monitoring transportation system data, and providing local technical support. The transportation planning process will be monitored for compliance with administrative, financial, and legal requirements. One program participant is expected to double its current geography, which will result in full state coverage of RTPO districts. Significant progress is expected to be made towards the completion of LRTPs. The institution of Regional TIP development for designated agencies is also expected to occur. One program participant is expected to double its current geography, which will result in full state coverage of RTPO districts.

FINANCIALS	**Amount**	**Fund**	**Amount**	**Fund**
Central Oklahoma Economic Development District	$100,000	SPR	$25,000	LOCAL
Grand Gateway Economic Development Association	$175,000	SPR	$43,750	LOCAL
Northern Oklahoma Development Authority & Oklahoma Economic Development Authority	$225,000	SPR	$56,250	LOCAL
Southern Oklahoma Development Association & Kiamichi Economic Development District	$175,000	SPR	$43,750	LOCAL
Southwestern Oklahoma Development Authority & Association of South Central Oklahoma Governments	$225,000	SPR	$56,250	LOCAL

FINANCIALS	**Amount**	**Fund**	**Amount**	**Fund**
Programmed Amount FFY 2025	$912,524	SPR	$192,500	LOCAL
Estimated Cost FFY 2026	$1,053,000	SPR	$225,000	LOCAL

CONTACT INFORMATION
Laura Chaney, Planning Branch Manager, 405-819-3719

The $1,068,000 SPR funds are used for $900K in planning grants across 5 RTPOs, and $168K for travel and ODOT staff salaries.

1719 Statewide Transportation Improvement Program

PURPOSE AND SCOPE: To develop, administer and revise a financially-constrained federally funded Statewide Transportation Improvement Program (STIP) for the State of Oklahoma in compliance with the Infrastructure Investment and Jobs Act and in cooperation with the FHWA, FTA, the five Metropolitan Planning Organizations (ACOG, INCOG, LMPO, CTMPO and Frontier MPO), the Bureau of Indian Affairs, and Tribal Governments.

PROPOSED ACTIVITIES FOR FFY 2026: Update the FFY 2026-2029 STIP. Manage, amend, or modify the STIP, as necessary. Continue use of the eSTIP for modifications and amendments. Continue administration of the current STIP using approved procedures.

FINANCIALS	**Amount**
Programmed Amount for FFY2025	$456,000
Estimated Cost for FFY 2026	$499,000

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1720 Statewide Travel Demand Model

PURPOSE AND SCOPE: To use the developed statewide travel demand model to determine regional and corridor-based needs. Mode share will be addressed within regional corridors. The project will use the Statewide Travel Demand Model, which is based on the Oklahoma road network, traffic analysis zone, and demographic, mode, network data, and validation and calibration of a base year model.

PROPOSED ACTIVITIES FOR FFY 2026: Update the Travel Demand Model with new data (Census Population, Freight Data, Road Network, and Employment Data, both current and into the Future) and transition the new TDM to a cloud-based TransCAD software. Enhance staff knowledge through courses, seminars, training, and conferences hosted by the Federal Highway Administration, the National Highway Institute, and others. Initiate model runs to assist in Department planning activities.

FINANCIALS	**Amount**
Programmed Amount for FFY 2025	$ 98,000
Estimated Cost for FFY 2026	$609,000

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1730 Connected and Automated Vehicles (CAV) Working Group

PURPOSE AND SCOPE: Develop and implement plans, polices and coordination procedures as maybe required in support of the Department objectives for the population of the Department's autonomous vehicle working group within the State of Oklahoma.

PROPOSED ACTIVITIES FOR FFY 2026: The services contract issued will be to assign tasks to the contractor that identify the required activities to be achieved.

- Coordinate the stakeholder's involvement with addressing the opportunities and risks associated with Oklahoma's adoption of autonomous vehicle technology.
- Assist the management of stakeholders for which their participation will be based on their expertise and reputation for promoting more efficient and effective coordination through professional collaboration.
- Provide insight through research as to best practices and lessons learned from states who have already formed and acted on similar autonomous vehicle technology working groups.
- The Consultant will provide to the Department written status reports on a monthly basis.
- Assist in the evaluation of whether participant adjustments need to be made to capture input from additional or even possible removal of identified stakeholders.
- Assist in the defining of critical areas of additional work that needs to be done within the monthly working group.
- Assist in the defining of what structure and funding should be perused to deliver the needed results.
- Assist in the development of a communication strategy to reach out to interested citizens and stakeholders on autonomous vehicle technology potential and risks in Oklahoma.
- Coordinate along with the working group on how a communications plan would be funded, executed with key messages and information delivered.
- Provide an overall assessment of the working groups status.

FINANCIALS	**Amount**
Programmed Amount FFY 2025	$78,500
Estimated Cost FFY 2026	$78,500

CONTACT INFORMATION

Andres Weber, Transportation Manager I, Multi-modal Div. 918-968-3509

1902 Statewide Long Range Transportation Planning

PURPOSE AND SCOPE: To maintain the Oklahoma Long Range Transportation Plan (LRTP) and other associated statewide planning activities in accordance with the provisions of federal law.

PROPOSED ACTIVITIES FOR FFY 2026: Continue maintenance and implementation of the 2025-2050 LRTP. Continue coordination with ODOT divisions, Metropolitan Planning and local governments in relation to long range transportation plans. Review and update the Oklahoma Public Transit Policy Plan. Review federal regulations and pertinent state legislative transportation issues. Keep apprised of possible changes in long range transportation planning requirements as new federal legislation is developed.

FINANCIALS	**Amount**
Programmed Amount for FFY **2025**	$ 1,115,625
Estimated Cost for FFY **2026**	$ 1,580,000

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1904 Air Quality Planning

PURPOSE AND SCOPE: Monitor and participate in air quality transportation planning developments relating to requirements of the Clean Air Act Amendments and the FAST Act. Represent the Department in air quality non-attainment and transportation conformity actions. Analyze and comment on air quality non-attainment and transportation regulations and laws. Maintain information flow to and from decision-makers regarding air quality/transportation issues, developments, regulations, and laws. Continue staff education, training and attendance at workshops and seminars. Assist the Department to be a progressive participant in reducing the impacts of transportation-related pollution.

PROPOSED ACTIVITIES FOR FFY 2026: Maintain research and participation in air quality/transportation issues, developments, regulations, and laws; continue to develop education materials and resources for Department personnel regarding air quality and transportation. Continue to monitor the air quality regulations and their impact on the Department. Continue monitoring attainment status throughout the state and facilitate relationships as necessary pertaining to federal attainment requirements. Attend air quality/transportation planning activities of the LMPO, ACOG, and INCOG. Participate in MPO and ODEQ air quality/transportation initiatives and educational programs. Continue partnership with ACOG and INCOG to enhance and extend data collection and modeling outside of the study areas to establish base data for air quality issues in rural/donut areas. Continue staff education through courses, seminars, and conferences.

FINANCIALS	**Amount**
Programmed Amount FFY 2025	$13,000
Estimated Cost FFY 2026	$8,000

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1905 FREIGHT TRANSPORTATION PLANNING

PURPOSE AND SCOPE: To coordinate freight planning and freight data analysis with the Long Range Transportation Plan (LRTP), the Oklahoma Freight Transportation Plan, the State Rail Plan, waterway freight planning reports and project development processes. To ensure Oklahoma's freight planning efforts are in compliance with federal regulations.

PROPOSED ACTIVITIES FOR FFY 2026: Update the Oklahoma Freight Transportation Plan in accordance with federal regulations. Review existing and proposed federal regulations as they relate to freight planning. Review and analyze the freight analysis framework (FAF) data, freight congestion, the national performance measures roadway data set, and urban and rural freight transport.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$ 3,400
Estimated Cost FFY 2026	$ 895,000

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1913 Active Transportation Planning

PURPOSE AND SCOPE: To coordinate and develop a bicycle and pedestrian program for the State of Oklahoma in compliance with the provisions of existing federal regulations and Fixing Americas Surface Transportation (FAST) Act provisions and all applicable transportation planning regulations and requirements in compliance with the FHWA, FTA, the four Metropolitan Planning Organizations (ACOG, INCOG, LMPO, and Frontier MPO), and non-metropolitan areas.

PROPOSED ACTIVITIES FOR FFY 2026: Promote and create awareness (social media and in-person) of the AT plan statewide by participating in bicycle and pedestrian transportation planning initiatives, seminars, workshops, summits, conferences and educational programs. Update the Oklahoma Bicycle Map and promoting US Bike Route 66 in Oklahoma. Participate in a minimum of 5 walk and 5 bike audits. Review and consult on AT opportunities with engineers & designers on 30-60-90% of plans, both in-person and electronically. Monitor bicycle and pedestrian issues, developments, regulations, and laws with the help of traffic data analysis companies. Improve the partnership with OK Dept. Of Highway Safety and DPS to develop educational materials and resources regarding bicycle and pedestrian safety, infrastructure design, and transportation. Consult with Amtrak and advocate for bike accessibility on the Amtrak Heartland Flyer. Continue partnerships and create new partnerships with run and bike clubs statewide, as well as “green” organizations. Attend bicycle and pedestrian planning activities of ACOG, INCOG, LMPO and Frontier MPO and other non-metropolitan areas of the State. Develop and implement an Oklahoma Active Transportation Academy. Continue ODOT’s Active Transportation Community engagements, such as Red Bud, Memorial Marathon, BikeFest, Cycle 66, and other bicycle races/tours.

FINANCIALS	**Amount**
Programmed Amount FFY 2025	$300,000
Estimated Cost FFY 2026	$275,000

CONTACT INFORMATION:

Bart Vleugels, Active Transportation Coordinator, 405-234-0203

1914 Transportation Asset Management Plan

PURPOSE AND SCOPE: To develop a transportation asset management plan (TAMP) for the Oklahoma Department of Transportation in accordance with the provisions of the Investment Infrastructure Jobs Act. The TAMP incorporates many working areas covering target areas of maintenance, construction, financials, inventory, performance data, and programming.

PROPOSED ACTIVITIES FOR FFY 2026: Continue to participate in various activities as they are available including meetings, workshops, webinars, conferences and peer exchanges. Keep informed of best practices in asset management and performance management. Implement asset management through action oriented tasks. Monitor the rule making process related to performance measures.

FINANCIALS	**Amount**
Programmed Amount FFY 2025	$ 24,500
Estimated Cost FFY 2026	$767,000

CONTACT INFORMATION:

Laura Chaney, Planning Branch Manager, 405-819-3719

1915 Performance Measures Coordination

PURPOSE AND SCOPE: To coordinate data related to performance measures, metrics (quantifiable indicator of performance), thresholds, and targets. To develop ODOT's State Biennial Performance Report. Performance Measures to be covered in the Biennial Report are described in different Subparts of Title 49 as per the FAST Act. Subpart C concerns Pavement Conditions; Subpart D concerns Bridge Condition; Subpart E concerns System Performance (travel time reliability) of the NHS; Subpart F concerns Freight (Truck) Movement on the Interstate System. Related information for each subpart and related measures, metrics, targets, etc. will be reported annually by the related ODOT "Division Owner", through the Highway Performance Monitoring System (HPMS), the Highway Safety Improvement Program (HSIP), or other processes. Additionally, safety performance data will be reported through the HSIP process.

PROPOSED ACTIVITIES FOR FFY 2026: Continue developing and implementing agency plans for compliance with required performance measures and reporting. Coordinate with subject matter experts on bridge, pavement, travel time reliability, and freight performance measure data collection and preparation. Attend seminars and workshops on performance measures topics and reporting techniques. Continue Speed Data Collection and HERE data through this item.

FINANCIALS	**Amount**
Programmed Amount for FFY 2025	$380,000
Estimated Cost for FFY 2026	$380,000

CONTACT INFORMATION:

Cody Hamblin, Traffic Planning & Analytics Engineering Manager, 405-227-6425
Kendal Theisen, Assistant State Traffic Engineer, 405-243-1630

OKLAHOMA Transportation

- Research Part 2 SPR Work Plan
- LTAP – Local Technical Assistance Program
- Pooled Funds
- SPTC – UTC Program

FINANCIALS:

* Soft Match Credit (SMC) - allows states to use capital expenditures made by toll facilities as a "soft match" for federal funds, meaning they do not provide additional money but can reduce the non-federal share requirement. SMC refers to a type of non-cash contribution.

SPR Part 2 Financial Summary Sheet

SPR PART 2 - RESEARCH, SPRY-0010(097)RS, JP# 01946(95)

FEDERAL FISCAL YEAR 2026

* All SPR is Matched with Soft Match Credit

		SPR	SMC *	FHWA	TOTAL Obligated
GENERAL ITEMS					
2100	Transportation Research Board (TRB) Core	$15,000.00	$0.00	$0.00	$15,000.00
2125	Support of Innovation Initiatives	$30,000.00	$0.00	$0.00	$30,000.00
2130	General Research Activities	$230,000.00	$0.00	$0.00	$230,000.00
2160	Southern Plains Transportation Center (SPTC) UTC	$1,000,000.00	$0.00	$0.00	$1,000,000.00
2161	ODOT Transportation Library Management	$224,000.00	$0.00	$0.00	$224,000.00
2300	Research Implementation	$139,200.00	$0.00	$0.00	$139,200.00
2700	Experimental Product Evaluation Program	$80,000.00	$0.00	$0.00	$80,000.00
	Total General Activities	**$1,718,200.00**	**$0.00**	**$0.00**	**$1,718,200.00**
CONTINUING RESEARCH PROJECTS					
2156	Roadside Vegetation Management (RVM) Training & Consultation	$199,000.00	$0.00	$0.00	$199,000.00
2157	Roadside Vegetation Management Research	$82,000.00	$0.00	$0.00	$82,000.00
2295	ODOT Automated Bridge Survey	$169,200.00	$0.00	$0.00	$169,200.00
2297	Updating Pav. ME Climate Module for Efficient Design, Mgmt. of Okla. Pav.	$106,000.00	$0.00	$0.00	$106,000.00
2298	Incorp. Quality Recycled Asphalt Pavem. into the Balanced Mix Design World	$104,000.00	$0.00	$0.00	$104,000.00
2299	Assessing & Enhancing the Traffic Count and HPMS Program	$48,000.00	$0.00	$0.00	$48,000.00
2500	Asphalt Binder Test (ABT) for Quick Performance Grade of Asphalt Binder	$101,000.00	$0.00	$0.00	$101,000.00
	Total Continuing Research Projects	**$809,200.00**	**$0.00**	**$0.00**	**$809,200.00**
NEW RESEARCH PROJECTS					
2501	Evaluate the Performance and Consistency of BMD Mixes	$180,000.00	$0.00	$0.00	$180,000.00
2502	Evaluation of In-Place Asphalt Mix Density using DPS	$104,000.00	$0.00	$0.00	$104,000.00
2503	Enhancing MALP and MKP as Repair Materials Through Joint Usage	$108,000.00	$0.00	$0.00	$108,000.00
	Total New Research Projects	**$392,000.00**	**$0.00**	**$0.00**	**$392,000.00**
CONTINUING IMPLEMENTATION PROJECTS					
2318	Implement Bridge Deck Cure and Seal for Slip Formed Parapet Walls/Sidewalks	$200,000.00	$0.00	$0.00	$200,000.00
2319	Comparative Performance of Geotextile Products	$34,000.00	$0.00	$0.00	$34,000.00
	Total Continuing Implementation Projects	**$234,000.00**	**$0.00**	**$0.00**	**$234,000.00**
NEW IMPLEMENTATION PROJECTS					
	New Implementation Projects				
2320	Service Life of Bridge Deck Repairs using Flood Coats	$62,000.00	$0.00	$0.00	$62,000.00
	Total New Implementation Projects	**$62,000.00**	**$0.00**		**$62,000.00**
	Total SPRY-0010(097)RS	**$3,215,400.00**	**$0.00**	**$0.00**	**$3,215,400.00**
LTAP Project Number TTY-LTAP (014)TT	**JP# 30001(25)**				
1440	Local Technical Assistance Program	$555,040.00	$0.00	$210,000.00	$765,040.00
	Grand Total with LTAP	**$3,770,440.00**	**$0.00**	**$210,000.00**	**$3,980,440.00**
POOLED FUND STUDIES					
					$65,000.00
	SPR Part 2 Total Pooled Fund Studies	**$1,834,522.00**			**$1,834,522.00**
	TOTAL RESEARCH FUNDING INCLUDING POOLED FUND STUDIES	**$5,604,962.00**	**$0.00**	**$210,000.00**	**$5,814,962.00**

FINANCIALS: *Soft Match Credit (SMC) – allows states to use capital expenditures made by toll facilities as a "soft match" for federal funds, meaning they do not provide additional money but can reduce the non-federal share requirement. SMC refers to a type of non-cash contribution.

SPR POOLED FUND STUDIES

PART A (PART 1) POOLED FUND STUDIES

FFY2025 COMMITMENTS

		SPR	STATE	LOCAL	TOTAL
5000 OK LEAD ITEMS (Management)					
NONE		$0.00			$0.00
Total OK Lead Studies		$0.00			$0.00
5005 OK PARTICIPATING ITEMS (Management)					
NONE		$0.00			$0.00
	SPR Part A Total OK Participating Studies	$0.00			$0.00
	SPR Part A Total Pooled Fund Studies	$0.00			$0.00

PART B (PART 2) POOLED FUND STUDIES

FFY2026 COMMITMENTS

		SPR	STATE	LOCAL	TOTAL
5000 OK LEAD ITEMS (Management)		$10,000.00			$10,000.00
TPF-5(442)	Transportation Research and Connectivity	$25,000.00			$25,000.00
TPF-5(550)	Performance Based Specifications of Fiber Reinforced Concrete	$30,000.00			$30,000.00
	SPR Part B Total OK Lead Studies	**$65,000.00**			**$65,000.00**
5005 OK PARTICIPATING ITEMS (Management)		$12,000.00			$12,000.00
TPF-5(###)	NCHRP	$919,203.00			$919,203.00
TPF-5(557)	Core Program Services for Highway RD&T Program TRB FY2025	$168,319.00			$168,319.00
TPF-5(478)	Demonstration to Advance New Pavement Tech	$10,000.00			$10,000.00
TPF-5(479)	Clear Roads Winter Highway Operations Phase 3	$25,000.00			$25,000.00
TPF-5 (517)	Performance Centered Concrete Construction	$20,000.00			$20,000.00
TPF-5(518)	Implementation of Structural Data from Traffic Speed Deflection Dev.	$55,000.00			$55,000.00
TPF-5(523)	Building Info Modeling (BIM) for Bridges and Structures Phase 2	$25,000.00			$25,000.00
TPF-5(526)	Western Transportation Research Consortium	$15,000.00			$15,000.00
TPF-5(531)	Accelerated Performance Testing on the NCAT	$450,000.00			$450,000.00
TPF-5(544)	Tech Transfer Concrete Consortium	$20,000.00			$20,000.00
Sol. 1633	Connected Corridors Advancement	$50,000.00			$50,000.00
	SPR Part B Total OK Participating Studies	**$65,000.00**			**$65,000.00**
	SPR Part B Total Pooled Fund Studies	**$1,834,522.00**			**$1,834,522.00**

FFY2026 ACTIVE AND PAID

TPF-5(394)	Western Maintenance Partnership Phase III	TPF-5 (456)	EconWorks Improved Economic Insight
TPF-5(398)	Moving Forward with Next Gen Travel Behavior Data collection and Processing	TPF-5(465)	Consortium Asphalt Pavement Research
TPF-5(431)	Applications of Enterprise GIS for Transportation	TPF-5(467)	Research Project Tracking System
TPF-5(437)	Tech Transfer Concrete Consortium (FFY20-FFY24)	TPF-5(469)	National Partner NCAT
TPF-5(439)	Tech. Exchange on Managing Pavements	TPF-5 (480)	Building Information Modeling for Infrastructure
TPF-5(447)	Traffic Control Device (TCD) Consortium	TPF-5(484)	Protecting Bridge Girders against Over Height Veh
TPF-5(451)	Road Usage Charge West	TPF-5(492)	Biennial Asset Mgt Conference and Training
		TPF-5-(554)	Traffic Control Device Consortium

1440 Local Technical Assistance Program

PURPOSE AND SCOPE: The Local Technical Assistance Program (LTAP) is an education program contracted through Oklahoma State University to provide training and technical assistance to county, municipal, and tribal governments responsible for transportation systems at the local level. This is accomplished by (1) conducting classes and workshops; (2) providing on-site technical assistance; (3) maintaining a library of publications, DVDs and other technology documents; (4) providing information and technical assistance on new and existing technologies; (5) coordinating with faculty and staff at OSU, ODOT, FHWA and industry to provide technical expertise; (6) providing a website; (7) maintaining a database of transportation officials in Oklahoma and nationwide; and (8) Transportation Intern Program (TIP).

PROPOSED ACTIVITIES FOR FFY 2026: Through needs assessment surveys with LTAP customers, the training model has changed from what OKLTAP had deemed needed for their partners and they now provide a list of classes and allow the customer to prioritize their needs in training and then schedule 3-4 classes per quadrant (of Oklahoma) per quarter, averaging 1 training per week and 80 training courses annually; Continue training resulting in certification for Flaggers; Continue to develop activities to facilitate the implementation of EDC Initiatives; Continue the Roads Scholar Program with Level 1 and Level 2 certifications; Continue Road Safety Champion Certification; Participate in APWA, ACCO, CODA, NACE, Oklahoma Municipal League, National and Oklahoma Safety Council, NLTAPA and LTAP Region VI meetings; Continue to teach and develop courses in the FHWA focus areas; Continue assisting agencies through the TRIP to facilitate workforce development; Continue partnership with Oklahoma Conservation Commission; Continue partnership with OAPA; Serve on various local and national committees; Provide technical assistance as requested; Continue to provide website, newsletter, books, plans, DVD's, etc. for distribution; Conduct LTAP Advisory Meeting and develop requested activities where possible; Provide program progress reports to ODOT and FHWA.

FINANCIALS	AMOUNT	FUND	AMOUNT	FUND
Programmed Amount FFY 2025	$453,426	SPR	$210,000	FHWA
Projected Cost FFY 2026	$555,040	SPR	$210,000	FHWA

CONTACT INFORMATION:

ODOT Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2100 Transportation Research Board (TRB) Participation

PURPOSE AND SCOPE: This item covers employee travel expenses and time for up to 4 ODOT ORI personnel to attend the annual TRB meeting to advance technical development of topics and issues required to support the Office if Research and Implementation's work program. Many TRB related activities are either fully covered or discounted as a result of being a TRB Sponsor (see list below). This SPR item may also be used for expenses not covered by TRB, such as employee time, travel to and registrations and/or discounted registrations for TRB related annual technical committee conferences and workshops. This item's funds may not be used for what is already covered in the sponsorship (see list).

Some Major Benefits of Being a $83,340+ Sponsor of TRB's Core Programs:

- Unlimited registrations to the TRB Annual Meeting for all Sponsor ODOT employees.
- Meeting facilities and an exhibit booth at the Annual Meeting (based on availability).
- Sponsors are represented on the TRB Executive Committee.
- TRB maintains standing committees in subject areas of interest to Sponsors.
- Sponsor employees are eligible for discounted registration fees for many of TRB's committee-sponsored conferences.
- Sponsor employees are eligible for free registration for TRB sponsored webinars on a wide range of transportation topics.
- TRB operates a staff Field Visit Program to facilitate the exchange of relevant information and increased participation of our Sponsors on committees and programs of NAS/TRB. TRB will schedule visits with Sponsors and establish liaison representatives as appropriate.
- Sponsor employees have access to TRB's Library and to TRID. TRID is an integrated database that combines the records from TRB's Transportation Research Information Services (TRIS) Database and the OECD's Joint Transport Research Centre's International Transport Research Documentation (ITRD) Database

More TRB sponsorship benefits (covered resources) can be found at:
https://www.nationalacademies.org/trb/support-trb/core-program-sponsors

PROPOSED ACTIVITIES FOR FFY 2026: A request will be made for two (2) ORI staff members to attend the 2026 annual TRB meeting. Other requests may be submitted for other TRB committee meetings, webinars and workshops.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$20,000
Projected Cost FFY 2026	$15,000

CONTACT INFORMATION

ODOT Deputy Chief Innovation Officer: Tara Cullum, 405-522-8151

2125 Support of Innovation Initiatives

PURPOSE AND SCOPE: Innovation has become a critical aspect when considering use of funds, regardless of the source. Innovation is a concept that is demanded of and embraced by all working groups of ODOT. Innovation does not necessarily require that a technology is proven, but that it has the reasonable potential to enhance deliverables in the general areas of lives, time, cost, and environment.

This item will provide support to ODOT innovation initiatives being incorporated into ODOT. ODOT ORI employees time may be charged to this item for time and travel expenses for STIC and EDC events.

PROPOSED ACTIVITIES FOR FFY 2026: Support and monitoring for the following projects: a bridge deck cure and seal project; high-performance geotextiles for stabilization of problematic roadway subgrades; traffic incident management for integrating technology, data and training; nighttime visibility for safety; transportation related AI projects and strategic workforce development. Support and monitoring of any other EDC implementations while reporting progress to the STIC; Maintain a STIC website, that includes EDC activities. Monitor any new STIC Incentive and AID Demonstration Projects that are awarded through the STIC Network in the new FY.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$40,000
Projected Cost FFY 2026	$30,000

CONTACT INFORMATION

ODOT Deputy Chief Innovation Officer: Tara Cullum, 405-522-8151

2130 General Research Activities

PURPOSE AND SCOPE: This activity covers various research activities which are necessary for the operation of a research section but which cannot be accurately included in other projects. Examples of this type of activity include: ODOT ORI employees attending quality task force meetings; writing work plans for emerging research projects which have not been assigned an item number; preparing new and continuing research contracts and contract modifications; research project management; maintaining electronic research project records, i.e., project progress, invoicing, contractual deadlines; reviewing final research reports; meeting with university and private researchers regarding proposed projects; attending industry seminars, conferences, etc.

PROPOSED ACTIVITIES FOR FFY 2026: Solicit for new research/implementation ideas for possible FFY 2027 federal funding; Generate and post FFY 2027 RFPs; Generate FFY 2027 research/implementation project agreements and/or agreement modifications; Organize FFY 2027 initiation meetings; Organize FFY 2026 final project meetings; Coordinate and assemble research/ implementation teams; Facilitate project implementation plans and direction; Continue to examine research/implementation final reports for required formatting; Continue expert technical review of research/implementation final reports; Prepare Part 2 of the FFY 2027 SPR Work Program.

FINANCIALS	AMOUNT
Programmed Amount FFY 2025	$230,000
Projected Cost FFY 2026	$230,000

CONTACT INFORMATION

ODOT Engineering Manager: Tara Cullum, Deputy Chief Innovation Officer: 405-522-8151

2156 Roadside Vegetation Management (RVM Training & Consultation

PURPOSE AND SCOPE: This training and consultation initiative is designed to meet the roadside vegetation management (RVM) needs of ODOT and builds upon the previous years of RVM training offered by Oklahoma State University to ODOT. This service and tasks have been designed based upon knowledge of, and being observant of Federal and State Pesticide Laws and Regulations, communications and feedback from ODOT field and headquarters staff, observing areas of continued consultation needs by networking with RVM industry professionals.

PROPOSED ACTIVITIES FOR FFY 2026: Deliver Annual Pesticide Applicator Certified Training and Continuing Education Applicator Workshops for all ODOT field districts, and maintain records on all ODOT certified applicators; provide as needed consultation to ODOT office and field personnel; coordinate Herbicide Application and Equipment Calibration Workshops for new employees; assist ODOT in updating the Approved Herbicides and Adjuvants List (AHAL); assist with AHAL contract review; perform survey and review of ODOT field divisions herbicide programs; produce yearly revisions to the Oklahoma Roadside Vegetation Management Guidelines; attend national conferences; provide monthly reports; FFY 2025 annual reports are pending; prepare and submit FFY 2026 annual reports.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$199,000
Projected Cost FFY 2026	$199,000

CONTACT INFORMATION

Principal Investigator: Dennis Martin, Ph.D., Oklahoma State University, 405-744-5419

ODOT Champion: Jon Arps, PE, Maintenance Division Engineer, 405-521-2557 ODOT

Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2157 Roadside Vegetation Management Research

PURPOSE AND SCOPE: A progressive Roadside Vegetation Management (RVM) program integrates proper vegetation selection, establishment and maintenance. Placing a well-adapted native or introduced species of vegetation on the roadside is the foundation of a successful program but not the end of the required inputs for successful long term roadside beauty and stabilization. The maintenance portion of the RVM program involves a combination of decisions concerning to mow or not mow, specific mowing heights and frequency of mowing, herbicide use or avoidance for weed control in the specific vegetation system at hand. Mowing and herbicide use on roadsides replace fire and herbivore grazing found in rangeland or natural perennial grass ecosystems. Grazing and fire are not considered available management tools in roadside right of way at this time. The roadside vegetation used in Oklahoma not only stabilizes and beautifies the roadside but is also a habitat for many pollinator species. A progressive RVM program should investigate new or experimental products to determine their merit in use in RVM programs and these programs should be evaluated for their roadside vegetation community service in terms of soil stabilization, environmental beautification and ecosystem services including benefit to pollinator species.

PROPOSED ACTIVITIES FOR FFY 2026: Evaluate new and generic herbicide formulations, combinations, and wiper-applied options for integration into existing ODOT roadside and cable barrier vegetation management programs or use in management of wildflower plots, and for inclusion in the Approved Herbicide & Adjuvant List (Task 1); evaluate new or reformulated herbicides and/or drift control products for their compatibility with commonly used ODOT herbicide treatments (Task 2). Provide monthly reports; FFY 2025 annual report is pending; prepare and submit FFY 2026 annual report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$81,000
Projected Cost FFY 2026	$82,000

CONTACT INFORMATION

Principal Investigator: Dennis Martin, Ph.D., Oklahoma State University, 405-744-5419

ODOT Champion: Jon Arps, PE, Maintenance Division Engineer, 405-521-2557 ODOT

Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2160 Southern Plains Transportation Center (SPTC)

PURPOSE AND SCOPE: The U.S. Department of Transportation (USDOT) has selected the University of Oklahoma (OU) led Southern Plains Transportation Center (SPTC) as the 2023-2027 USDOT Region 6 Regional University Transportation Center (UTC). **Under the umbrella of the Infrastructure Investment and Jobs Act (IIJA), this center brings federal funding of $3 million per year along with $3 million per year in matching funds.** The Oklahoma Department of Transportation (ODOT) has pledged $1 million per year in matching funds with the remainder coming from OU and the other partner institutions. With a focus on improving durability and extending the life of infrastructure, the SPTC will leverage the strengths of OU and its partner institutions in transportation engineering, materials, construction, climate, and weather to develop implementable solutions to create climate-resilient infrastructure. It will also catalyze transportation education and workforce development for the Region. The SPTC is a consortium of 11 highly diverse and strong academic institutions: El Paso Community College; Louisiana State University; Louisiana Tech University; Navajo Tech University; Oklahoma State University; Texas A&M University/Texas Transportation Institute; Texas Southern University; University of Arkansas; University of New Mexico; University of Texas at El Paso; and the University of Oklahoma, which serves as the consortium lead. ODOT's financial support for SPTC activities and operation is important to its success. Under the USDOT statutory research priority D: Improving the Durability and Extending the Life of Transportation Infrastructure, SPTC's work program will focus on *Climate and Sustainability* and *Economic Strength and Global Competitiveness* and *Safety***.**

PROPOSED ACTIVITIES FOR Year 3: The activities include, but are not limited to, the following: Review and assist in the selection of submitted proposals with assistance of the SPTC Advisory Board and others (which are connected to SPTC goals and stakeholders' needs); several impactful education, workforce development, outreach, stakeholder engagement, and technology transfer activities such as Oklahoma Transportation Research Day, Oklahoma Summer Symposium, Transportation Industry and Workforce Development Symposium, Transportation Regional Internship Program, short courses, workshops, and webinars.

FINANCIALS Projected Cost

FFY 2026 **AMOUNT** $1,000,000

CONTACT INFORMATION

SPTC Director: Musharraf Zaman, Ph.D., PE, The University of Oklahoma, 405-401-3096

ODOT Deputy Chief Innovation Officer: Tara Cullum, 405-522-8151

2161 Management of the ODOT Transportation Library

PURPOSE AND SCOPE: The Oklahoma Department of Transportation (ODOT) wishes to maintain and operate a sound, progressive, and flexible transportation library, which is available to ODOT, local, regional and national users. The goal is to keep ODOT staff and their stakeholders informed of recent developments and innovations in transportation technologies, methodologies and programs. A complementary goal is to increase operational efficiency and reduce cost. The Oklahoma Transportation Library (OTL) seeks to integrate with other transportation libraries nationally while moving toward digital contents and an Internet-based service system.

ODOT is a Core Sponsor of the TRB Program. Sponsor employees receive full online access to all the Transportation Research Records and has access to several databases such as TRID, TRIS, TRT, and RIP. The OTL may not have direct access to electronic copies of NCHRP Syntheses publications, but efforts are being made to change that.

PROPOSED ACTIVITIES FOR FFY 2026: Continue to: store, maintain, and provide access to the collection of transportation materials; refine the OTL collection regarding donated items; develop collection; perform traditional library services; organize internal and external outreach efforts including beneficial webinars, workshops, seminars, and lectures on transportation topics; share resources, abide by NTKN policies, and execute long-term and short-term library expansion and outreach goals; maintain and update OTL's virtual library, LibGuide and website; coordinate report printing, binding and distributing services; catalogue; conduct literature search related services; draft ODOT Research Highlighters (summaries). Provide occasional accessibility checks of final research reports. Provide monthly reports. Submit FFY26 Annual Report. FFY 2024 annual report approved October, 2023. FFY 2025 annual report due September 30, 2025.

EXPECTED DELIVERABLES:

- Task 1.1 Maintain the Collection
- Task 1.2 Refining the Collection
- Task 1.3 Developing the Collection
- Task 2.1 Serve as a Transportation Clearinghouse
- Task 2.2 Conduct Literature Search Related Services
- Task 2.3 Provide Traditional Services
- Task 3.1 Internal Outreach
- Task 3.2 External Outreach
- Task 3.3 Online and Print Outreach
- Task 4.1 Asst. ODOT with Access. of Final Reports
- Task 4.2 Ongoing Task: Coordinate Printing Services
- Task 4.3 OTL Report Preparation

PROPOSED NEW ACTIVITIES:

Provide data analytics and/or visualization services to help stakeholders understand trends in research (for example, review DOT reports published in a fiscal year to find out most popular topics and present as a visualization or infographic);

Create new digital collections pages highlighting specific areas of the library's collection for specific, timely, topics (for example, a collection's page devoted to the latest in AI research);

Add a "training" page to the website to link to latest trainings, certifications, workshops, and seminars being offered throughout the year from a variety of sources, including events that provide PDHs;

Create learning modules on various transportation topics that will include curated recordings from across the web. Topics could include big data analytics, AI, Section 508, and various transportation/engineering topics;

Create an annual survey on patron needs for user-driven content.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$224,000
Projected Cost FFY 2026	$224,000

CONTACT INFORMATION

Librarian: Michael Molina, Ph.D., Oklahoma Transportation Library, 405-325-5960

ODOT Deputy Chief Innovation Officer, Tara Cullum 405-522-8151

2286 Compost Filter Socks for Storm Water and Erosion Control in Construction - Phase 2
"Paired Catchment Comparison of Erosion Control Devices at Construction Sites"

PURPOSE AND SCOPE: An update to the Standards Specifications for Highway Construction of erosion and sediment control measures through the Storm Water Action Team is ongoing. Part of this update includes reviewing and evaluating new erosion control products like compost filter socks. Direct side-by-side testing of CFS systems in a paired system with silt fence, triangle silt dikes, and straw waddles is needed to be able to select the most effective and cost-effective system for a specific ODOT construction site. This Phase 2 portion of the project examines the longevity and effectiveness of three erosion control options using a paired catchment method for a variety of pertinent field site parameters including soil type, slope, and rainfall intensity. The purpose of paired catchment approach is to factor out variables other than the treatment effect that influenced the reduction of erosion rate over time.

PROPOSED ACTIVITIES FOR FFY 2026: Project complete, Final report submitted April 2025

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$0.00
Projected Cost FFY 2026	$0.00

CONTACT INFORMATION

Principal Investigator: Jason Vogel, Ph.D., PE, The University of Oklahoma, 405-325-2826

ODOT Champion: Joe Brutsche, Environmental Programs Division Manager, 405-522-3978

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2295 ODOT Automated Bridge Survey

PURPOSE AND SCOPE:
The purpose and scope of this research study will be to: Develop an efficient, non-destructive, and cost-effective procedure to comprehensively evaluate the condition of approach slabs and bridge decks. Provide approach slab and bridge deck evaluations encompassing cracking and IRI data, ensuring a thorough understanding of their performance. Conduct deck surveys to document essential parameters such as crack size and location, spall locations, percentage of patches, and condition of expansion joints. Identify areas requiring maintenance action based on a comprehensive assessment of ride quality, using 2D/3D images, roughness data, and right-of-way images to categorize conditions as Good, Fair, or Poor. Develop a non-destructive and cost-effective approach to determine the actual dynamic impact factor (IM) on both the approach slab and bridge decks based on their condition.

PROPOSED ACTIVITIES FOR FFY 2026: **(Year 3 of 3)** This is the third and last year of this project. The group has worked closely with ODOT and consider various bridge characteristics, such as bridge type and span length, to ensure their relevance to the study. During the third year the proposed experimental design of major research activities encompasses several tasks: field data collection, evaluation of bridge IM, approaches, and decks, and development of a fast standard procedure for determining bridge IM will also be completed. The following tasks will also start: gathering basic bridge information, collecting multi-source data, and conducting field measurements of bridge IM, evaluating distress, bumps, IRI, and calculating IM for bridge approaches and decks. Also during this year the Final Report and Implementation guide will be developed.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$143,000
Projected Cost FFY 2026	$169,200

CONTACT INFORMATION

Principal Investigator: Joshua Li, Ph.D., PE, Oklahoma State University, 405-744-6328

ODOT Champion: Walt Peters, PE, Assist. Bridge Division Engineer, 405-521-2606

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2296 Highway/Rail Intersection Hump or High-Profile Crossings Problems

PURPOSE AND SCOPE: The proposed project will seek to address hang-up problems that are encountered by low-clearance vehicles on highway-rail grade crossings. The research will determine the extent of these hang-ups and will develop a procedure to identify the suspect crossings through testing and comparisons and will recommend field measurement approaches to obtain 3D ground profiles at railroad crossings. It will identify the vehicle types that are prone to hang-ups due to low-clearances and long wheel bases or overhangs. Computer modeling will be used to assess the ability of design vehicles to safely navigate specific grade crossings and develop design criteria and guidelines for crossing profile alignments, targeting those vehicles with known problems at grade crossings. The Red Rock Corridor will be used as a case study to conduct an analysis of the hang-up potential.

PROPOSED ACTIVITIES FOR FFY 2026: Waiting Final Report

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$132,000
Projected Cost FFY 2026	$0.00

CONTACT INFORMATION

Principal Investigator: Joshua Li, Ph.D., PE, Oklahoma State University, 405-744-6328

ODOT Champion: Jared Schwennesen, PE, Multi-Modal Division Manager, 405-227-9452

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2297 Updating Pavement ME Climate Module for Efficient Design, Management of Oklahoma Pavements

PURPOSE AND SCOPE: This project will explore the design of climate-resilient pavements utilizing the global climate models (GCMs), and appropriate maintenance and rehabilitation measures will be also be selected. The GCMs will be evaluated and the most relevant models will be selected, and appropriate downscaling techniques that are suitable for the conditions of Oklahoma will be utilized. The selected model(s) will be used for prediction of future climate conditions and generation of synthetic data. The suitability of Oklahoma Mesonet climate data will be evaluated, as well as suitability of extracting historical climate data from other sources, for evaluation and use as a database for predicting distresses in selected pavement sections in Oklahoma. Pavement distresses will be analyzed using projected future climate data. Historical Oklahoma Mesonet data, and data from other sources including existing climate data files, will be used to create virtual weather stations in the current AASHTOWare Pavement ME software. Performance of the virtual weather stations will be analyzed and compared with those from the existing stations. Software simulation results will be analyzed to establish a regionwide climate data source for improved design of pavements in Oklahoma.

PROPOSED ACTIVITIES FOR FFY 2026: **(Year 3 of 2)** A one year no-cost time extension was granted for 2024 due to the PI changing. No budgeted FY25 funds were expended. FY26 the proposal submitted for year (2) will begin with Continuing to conduct and summarize a comprehensive literature search; continue evaluating climate models for their appropriateness for Oklahoma; collect historical weather data for use in AASHTOWare software; continue conducting a mechanistic-empirical analysis of pavement structures for four sites across Oklahoma, using projected future climatic input parameters to evaluate pavement performance; provide monthly reports and a tech transfer; prepare and submit final report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$106,000
Projected Cost FFY 2026	$106,000

CONTACT INFORMATION

Principal Investigator: Joshua Li, Ph.D., Oklahoma State University, 405-744-6328

Project Sponsor: Janet Reed, ODOT Pavement Design Engineer, 405-522-3495

ODOT Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2298 Incorporating Quality Recycled Asphalt Pavement into the Balanced Mix Design World

PURPOSE AND SCOPE: The Oklahoma Department of Transportation (ODOT) has taken several steps towards the implementation of the balanced mix design (BMD) approach including introducing a BMD provisional specification to be used in pilot projects. The ODOT is also investigating increasing the use of reclaimed asphalt pavement (RAP). The RAP variability, management, testing, and impact on mix properties are all important factors that need to be considered as part of the BMD implementation. This project is part of a long-term plan by the ODOT to implement BMD and to promote asphalt recycling. The overall objective of this study is to assist ODOT in its BMD implementation efforts with emphasis on mixes containing RAP.

PROPOSED ACTIVITIES FOR FFY 2026: **(Year 3 of 3)** Determine RAP variability and develop RAP management guidelines; characterize RAP using different test methods; conduct IDEAL-CT and Overlay tests on PMLC and LMLC specimens using different short-term aging conditions; conduct IDEAL-CT test on LMLC specimens using different RAP sources and RAP percentages; collect volumetric properties of BMD mixes and assess the impact on performance; provide monthly reports; prepare and submit final report.

FINANCIALS	AMOUNT
Programmed Amount FFY 2025	$104,000
Projected Cost FFY 2026	$104,000

CONTACT INFORMATION

Principal Investigator: Mohamed Elkashef, PhD, PE, Oklahoma State University, 405-744-1149

ODOT Champion: David Vivanco, Ph.D., PE, Asphalt Branch Engineering Manager, 405-522-4986

ODOT Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2299 Assessing and Enhancing the Traffic Count and HPMS Program

PURPOSE AND SCOPE: The objective of this project is to assess the adequacy of the Oklahoma Highway Pavement Monitoring System (HPMS) program and enhance it by potentially adding new sites and removing unnecessary locations, and incorporating emerging technologies and data sets to reduce data collection costs. The study will:

- Evaluate whether the current traffic count locations represent the full extent of Oklahoma HPMS roadways.
- Collaborate with local governments and MPOs to investigate the integration of their data into ODOT's count program to meet HPMS reporting needs.
- Determine whether continuous count locations are adequate for factoring short-term traffic counts.
- Review emerging technologies and data sources that may be appropriate for Oklahoma HPMS reporting.

This research project aims to directly support the assessment and improvement of traffic count and HPMS Programs at ODOT. It also seeks to identify emerging traffic data collection technologies and cost-effective data sources suitable for ODOT's HPMS and census reporting purposes. Maximizing the utility of traffic data collection is crucial for meeting HPMS/census reporting needs.

PROPOSED ACTIVITIES FOR FFY 2026: (Year 2 of 2) Review emerging technologies and data sources for Oklahoma's HPMS reporting needs; summarize the evaluation results of existing traffic data collection locations and technologies used in the Oklahoma HPMS program; prepare shapefiles following the ODOT GIS groups format; provide recommendations for potential improvements; provide monthly reports; prepare and submit final report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$119,000
Projected Cost FFY 2026	$48,000

CONTACT INFORMATION

Principal Investigator: Joshua Li, Ph.D., PE, Oklahoma State University,

405-744-6328 ODOT Champion: Lance Underwood, MBA (405) 738-7688

ODOT Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2300 Research Implementation

PURPOSE AND SCOPE: Implementation is the incorporation of research results into everyday practices of the organization and is a crucial stage in the research process. Research findings from national and regional studies are also considered for implementation. No matter how the research is derived, it is of little importance if it is not implemented. The budget for this item is prepared to support multiple implementation projects and/or various professional services contracts for research projects which fill needs of the Department but were not foreseen when the SPR budget was written, and therefore were not included as separate items. This may include special technical assistance on multiple projects, and providing matching funds for leveraging research program funds resulting in knowledgeable outcomes significant to the Department. Those projects and/or studies identified at SPR Work Program development that are supported by this item are represented in the following pages.

PROPOSED ACTIVITIES FOR FFY 2026: Support implementation project modification needs, mid-year research program needs and general implementation project support activity personnel needs. We have developed two new implementation RFPs to post for 2026 activity. We are currently in the process to determine the cost benefit/saving of projects that have been implemented.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$20,000
Projected Cost FFY 2026	$20,000

CONTACT INFORMATION

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2316 Solving the Riddle of End Regions-and Holistically Address the Performance of PC Girder Bridges Including Design, Sustainability and Rating

PURPOSE AND SCOPE: The purpose and goals of this research is to develop designs and methods for PC Bridge Beams that: assure safety and strength of PC Beam Bridges, produce PC breams with end regions that are free or nearly free from cracking in end regions of PC beams, produce beams with controlled and predictable prestress losses, produce PC beams with controlled and predicable cambers, and assure the long-lived serviceability of PC beam bridges.

PROPOSED ACTIVITIES FOR FFY 2026: None, this study ended September 30, 2025. Awaiting the Final report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$131,000
Projected Cost FFY 2026	$0.00

CONTACT INFORMATION

Principal Investigator: Bruce Russell, Ph.D., PE, SE, Oklahoma State University, 405-742-7450

ODOT Champion: Walt Peters, PE, Assist. Bridge Division Engineer, 405-521-2606

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2317 Effectiveness of Magnesium-Alumino-Liquid-Phosphate-Based Concrete as a Repair Material (MALP)

PURPOSE AND SCOPE: The purpose and goals of this research is to address the corrosion performance of conventional reinforcing steel in uncracked and cracked MALP concrete in simulated repairs of Portland cement of both high and low quality. Reinforcing bars will be evaluated in both a clean and passive state and in an activity corroding state. The project will evaluate the ability of MALP concrete to withstand freeze-thaw cycles both as an individual material and in conjunction with Portland cement concrete.

PROPOSED ACTIVITIES FOR FFY 2026: None, this study ended September 30, 2025. Awaiting the Final Report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$101,000
Projected Cost FFY 2026	$0.00

CONTACT INFORMATION

Principal Investigator: David Darwin, Ph.D., PE, University of Kansas, 785-864-3827

ODOT Champion: Walt Peters, PE, Assist. Bridge Division Engineer, 405-521-2606

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2318 Implement Bridge Deck Cure and Seal for Slip-Formed Parapet Walls and Sidewalks

PURPOSE AND SCOPE: Oklahoma DOT (ODOT) is interested in providing long-life concrete structures. One way to provide these structures is to treat the surface of the concrete to keep outside chemicals from penetrating. ODOT is interested in testing a product called Silencure and comparing it to other curing methods. Silencure is a curing compound reported to seal the surface of the concrete. This work will investigate the performance of Silencure in both the lab and the field for curing and treating horizontal and vertical concrete. The work will also aim to understand several other curing methods used by ODOT including wet curing, pulpcure, curing compounds, and silane sealers. This information will provide ODOT insight into maintaining its structural concrete and improving its construction practices. This work will benefit ODOT by providing a quantitative comparison of both laboratory and field usage of Silencure as well as other procedures used to cure and extend the service life of concrete. Recommendations will be made about the modification of ODOT specifications to help reduce costs during construction while still providing long-term performance of concrete structures.

PROPOSED ACTIVITIES FOR FFY 2026: **(Year 2 of 2)** Perform laboratory testing on horizontal and vertical surfaces in extreme drying environments on a subset of curing methods; perform field application and testing; measure chloride uptake on the specimens; provide recommendations; provide monthly reports; prepare and submit the final report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$150,000
Projected Cost FFY 2026	$200,000

CONTACT INFORMATION

Principal Investigator: Tyler Ley, Oklahoma State University, 405-744-5257

Project Sponsor: Walt Peters, Assist. Bridge Division Engineer, 405-521-2606

Project Manager: Wayne Rice, Transportation Manager: jerry.rice@odot.ok.gov

2319 Comparative Performance of Geotextile Products for Subgrade Stabilization through Plate Load Tests

PURPOSE AND SCOPE: Different geosynthetic manufacturers and suppliers continuously produce newer subgrade stabilization products and advocate for their use in ODOT-sponsored and other roadway projects in Oklahoma, which makes it essential for ODOT to have an objective and reliable set of guidelines and product evaluation program for the acceptance and use of such products based on their measured performance in conjunction with soils that would be representative of those encountered regularly across the state. This project aims to address this need for ODOT by testing different subgrade stabilization geotextile products using nominally identical aggregate base-subgrade models in the laboratory so that their performances can be quantified and compared consistently and reliably in terms of their corresponding Settlement Reduction Factors (SRF) and Traffic Benefit Ratios (TBR) for field applications (Mahmood 2013). These factors can help ODOT engineers quantify the benefit of individual geotextile products directly relative to unreinforced (i.e. control) conditions, especially to implement for the project conditions and requirements they encounter in Oklahoma. We will also search for any data available from other states to determine any specific trends and variations in the TBR and SRF values for different geotextile products on subgrade soils in Oklahoma as compared to those reported on other subgrades, which can also be beneficial for verification purposes relative to the results of the study. ASTM D 8462 (ASTM 2022) will be used to carry out the plate load tests. The products that will be included in this study are those which are most often used in Oklahoma, as well as those promoted by other manufacturers as equivalent alternatives at lower prices, and higher-end products to determine practical upper-bound values for the benefits expected from subgrade stabilization products for future cost benefit analysis.

PROPOSED ACTIVITIES FOR FFY 2026: **(Year 2 of 2)** Test two stabilized aggregate base-subgrade models using Hanes Geo Components products; perform verification tests as necessary; analyze results and compare products; provide monthly reports; prepare and submit final report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$107,000
Projected Cost FFY 2026	$34,000

CONTACT INFORMATION

Principal Investigator: Kianoosh Hatami, Ph.D., PE, The University of Oklahoma, 405-325-3674

ODOT Champion: Andrew Hawcroft, PE, Geotechnical Engineer, 405-521-4141

ODOT Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2320 Service Life of Bridge Deck Repairs using Flood Coats

PURPOSE and SCOPE: The purpose and goals of this research is to address the premature deterioration due to a combination of shrinkage-induced cracking, cyclic loading from traffic, and chemical ingress from deicing salts. These factors not only reduce the structural service life of bridge decks but also impose significant maintenance costs on state infrastructure budgets. A widely used technique to address such deterioration is the application of epoxy or methyl methacrylate (MMA) flood coats. These materials are designed to penetrate surface cracks, seal voids, and prevent ingress of moisture and salts. However, concerns remain regarding the long-term performance of these coatings due to their brittleness, temperature sensitivity, and limited bonding durability under cyclic environmental and loading conditions. This study proposes a comprehensive investigation into the service life and performance characteristics of conventional epoxy and MMA coatings and two emerging advanced materials: (a) alumina nanoparticle (ANP)-modified MMA, and (b) a ceramic polymer coating known as CeramycGuard.

PROPOSED ACTIVITIES FOR FFY 2026: This is the first year of this study. Tasks that will be performed during the first year are as follows: literature review, evaluation of in-service bridges, material selection and mix preparation, laboratory specimen fabrication and crack simulation, and accelerated deterioration exposure.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2026	$62,000

CONTACT INFORMATION

Principal Investigator: Shreya Vemuganti, University of Oklahoma, 505-225-9259

ODOT Champion: Walt Peters, PE, Assist. Bridge Division Engineer, 405-521-2606

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2500 Asphalt Binder Test (ABT) for Quick Performance Grade of Asphalt Binder

PURPOSE AND SCOPE: The proposed study will evaluate the continuous performance grades (PGs) of commonly used neat and polymer-modified binders in Oklahoma from different sources using the ABT device. The results of the ABT test will be verified with the traditional AASHTO M 320 specification to ensure confidence. Also, this study will evaluate binders with Engineered Crumb Rubber (ECR), and US Polyco Rapid Digestion Process (RDP) rubber modifiers using the ABT and AASHTO M 320 specification. Based on the test results, the ANN model will be retrained following a physics-informed process to predict the continuous PG of the crumb-rubber modified binders. In addition, this study will evaluate the properties of the RAP binder blends. The continuous PG grades of binders blended with RAP extracted binders will be tested using the ABT device. The maximum percentage of RAP binder for blending will be determined in consultation with ODOT and the consultant. The test data will be used to retrain the ANN model for better prediction of the PGs of RAP binder blends. In addition, field cores will be collected from asphalt pavements exhibiting premature distresses and failures with the help of ODOT. The extracted binder will be tested, and the results included in the ABT database. The effect of binder extraction using the automatic extractor and a relatively new and rapid method using Dichloromethane (DCM) on the continuous PGs will be studied selectively. Based on the review of literature, state DOT practices, test results, and consultant's experience, preliminary guidelines will be developed for the implementation of the ABT test as a screening and/or QC tool.

PROPOSED ACTIVITIES FOR FFY 2026: **(Year 2 of 2)** Conduct a literature review; arrange for loan and setup of an ABT device; identify sources and collect samples of commonly used asphalt binders, RAP, and crumb rubber; determine the continuous PG of neat and polymer-modified binders using ABT; verify ABT test results with AASHTO M320 testing; begin evaluating binders from RAP and distressed pavements; provide the first of two training workshops for the ABT device; provide monthly reports; prepare and submit final report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$101,000
Projected Cost FFY 2026	$101,000

CONTACT INFORMATION

Principal Investigator: Syed Ashik Ali, Ph.D., The University of Oklahoma: 405-325-4253

ODOT Champion: David Vivanco, Ph.D., PE, Asphalt Branch Engineering Manager, 405-522-4986

ODOT Transportation Manager: Wayne Rice, jerry.rice@odot.ok.gov

2501 Evaluate the Performance and Consistency of BMD Mixes during Production using Rheological and Chemical Binder Testing

PURPOSE AND SCOPE: This project is part of an ongoing plan by ODOT to implement Balanced Mix Design (BMD) and to promote asphalt recycling. The overall objective of this study is to build on the findings of previous studies conducted by ODOT, and to provide more insight into the performance and variability of BMD mixes, which will guide ODOT in its efforts to develop specifications for BMD. The specific objectives that will be addressed in this proposal are: Quantify the variability of BMD mixes during production using mixture and binder testing, including mixes from different asphalt plants, and constituting a wide variety of local materials and mix designs. Identify test methods that are appropriate to use to assess the variability of mixes, focusing on cracking, rutting, and binder rheological and chemical properties. The test methods will be evaluated based on their ability to capture the variability during production. The analysis will also include studying correlations between binder testing and mixture testing. Guidelines will be developed to evaluate the impact of variability on mix production and how to incorporate the variability into mix acceptance specifications. A statistical approach to incorporate the variability in mix acceptance specifications will be specified, including methods such as percent within limits (PWL), to ensure mix consistency during production.

PROPOSED ACTIVITIES FOR FFY 2026: Conduct a comprehensive literature review; select BMD and Superpave mixes representing a wide range of local materials; sample plant-produced mixes and raw materials; purchase and install an Asphalt Binder Cracking Device (ABCD); perform rheological tests on virgin and extracted binder, including Dynamic Shear Rheometer (DSR), Bending Beam Rheometer (BBR), and ABCD; perform chemical testing of binder using FTIR and SARA Fractionation; test mixtures for cracking resistance using IDEAL-CT, and for rutting resistance using HWT or IDT-HT; provide monthly reports; prepare and submit annual report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$0.00
Projected Cost FFY 2026	$180,000

CONTACT INFORMATION

Principal Investigator: Mohamed Elkashef, PhD, PE, Asst. Professor, OSU: 405-744-1149

Project Sponsor: David Vivanco, PhD, PE, Asphalt Engineering Manager: 405-522-4983

Project Manager: Wayne Rice, Transportation Manager: jerry.rice@odot.ok.gov

2502 Evaluation of In-Place Asphalt Mix Density Using DPS

PURPOSE AND SCOPE: Inadequate and non-uniform compaction during construction is a leading cause of premature distresses in asphalt pavements including cracks, potholes, permanent deformation, and reduced service life. Issues with compaction generally result in too high or too low density of the asphalt layer which may reduce the long-term durability of the flexible pavement. Like many state agencies, Oklahoma Department of Transportation (ODOT) requires coring to obtain field samples to assess and control the density of the asphalt layer during construction. The drawbacks of pavement coring are that the locations are selected randomly, and the process is destructive, relatively expensive, and labor intensive. A Dielectric Profiling System (DPS) is a Ground Penetrating Radar (GPR)-based rolling density system that provides real-time density measurement for the entire pavement section. This study will investigate the suitability of the DPS as a QA tool for evaluating the quality of compacted pavements in Oklahoma. Working with ODOT and industry partners, this study plans to collect field data using DPS and develop dielectric-density calibration curves for different ODOT asphalt mixes. The dielectric-density calibration curves will be validated by comparing with conventional density measurement methods. In addition, information needed for the future implementation of this technology in Oklahoma will be developed.

PROPOSED ACTIVITIES FOR FFY 2026: Conduct a comprehensive literature review and background research; finalize objectives and scope after further consultation with ODOT; purchase DPS equipment; evaluate the stability and inter-antenna variability for the DPS; conduct laboratory investigations on sensitivity of different factors such as air voids, temperature, and moisture on dielectric measurements; collect DPS and thermal profile data on field projects; sample and test field cores and asphalt mixes to use for calibration; obtain temperature data from an industry partner; analyze DPS and temperature data; provide monthly reports; prepare and submit annual report.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$0.00
Projected Cost FFY 2026	$104,000

CONTACT INFORMATION

Principal Investigator: Syed Ashik Ali, PhD, Asst. Professor, OU: 405-325-4253

Project Sponsor: David Vivanco, PhD, PE, Asphalt Engineering Manager: 405-522-4983

Project Manager: Wayne Rice, Transportation Manager: jerry.rice@odot.ok.gov

2503 Enhancing MALP and MKP as Repair Materials Through Joint Usage and in Combination with Ceramic Paint

PURPOSE AND SCOPE: The purpose and goals of this research is to address the corrosion performance of conventional reinforcing steel in uncracked and cracked MALP concrete in simulated repairs of Portland cement of both high and low quality. Reinforcing bars will be evaluated in both a clean and passive state and in an activity corroding state. The project will evaluate the ability of MALP concrete to withstand freeze-thaw cycles both as an individual material and in conjunction with Portland cement concrete.

PROPOSED ACTIVITIES FOR FFY 2026: This is the first year of this study. During the first year the following tasks will be performed: Perform literature search, evaluate corrosion performance of uncorroded and corroded reinforcing steel in uncracked and cracked concrete using several thickness and degrees of coverage using MALP to protect the reinforcing steel within MKP and MKP-VO repairs. During the later part of year one the following two tasks will start: Evaluate surface application of CeramycGuard as a method of sealing cracks improving scaling resistance of MALP and evaluate surface application of CeramycGuard method as a way to improve the freeze thaw resistance of MKP and MKP-VO.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$0.00
Projected Cost FFY 2026	$108,000

CONTACT INFORMATION

Principal Investigator: David Darwin, Ph.D., PE, University of Kansas, 785-864-3827

ODOT Champion: Walt Peters, PE, Assist. Bridge Division Engineer, 405-521-2606

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

2700 Experimental Product Evaluation Program

PURPOSE AND SCOPE: This project was established to provide ODOT with a means of providing for the (experimental use, monitoring, evaluation and implementation of products for highway and bridge construction where the products do not meet current ODOT standards and specifications, or have not yet been approved for identified qualified product lists.

PROPOSED ACTIVITIES FOR FFY 2026: Continue working with ODOT Divisions regarding experimental product information, use, trials, results, and modifications to standards for product use in construction and maintenance. Track experimental products through ODOT implementation. This money will possibly be used to fund a new project entitled, “Enhancing MALP and MKP as Repair Materials”.

FINANCIALS	**AMOUNT**
Programmed Amount FFY 2025	$40,000
Projected Cost FFY 2026	$80,000

CONTACT INFORMATION

ODOT Engineering Manager: Gary Hook, PE, gary.hook@odot.ok.gov, 405-420-2596

TPF-5 (XXX) National Cooperative Highway Research Program (NCHRP)

PURPOSE AND SCOPE:
The National Cooperative Highway Research Program (NCHRP) is a national research program carried out through the collaborative efforts of the Federal Highway Administration (FHWA), the National Academy of Sciences, Engineering, and Medicine (NASEM), and the American Association of State Highway and Transportation Officials (AASHTO). Created in 1962 as a means to conduct research in acute problem areas that affect highway planning, design, construction, operation, and maintenance nationwide, the NCHRP is administered by the Transportation Research Board (TRB) and sponsored by the individual State Departments of Transportation (DOTs) of the AASHTO in cooperation with the FHWA.

The NCHRP is a voluntary program funded by the States on an annual basis. Funding for NCHRP comes to 5.5 percent of the 2 percent State planning and research (SP&R) funding set-aside from the Federal-aid highway program. Participation in the NCHRP allows the States to leverage their research funding with that of other States to achieve similar research objectives without duplication of effort. This program affords a unique partnership between State, Federal, and private sector transportation experts.

NCHRP primarily focuses on the following research areas: pavements; economics; operations and control; general materials; illumination and visibility; snow and ice control; traffic planning; forecasting; bituminous materials; specifications, procedures, and practices; law; bridges; equipment; maintenance of highways and structures; general design; roadside development; safety; concrete materials; finance; special projects; testing and instrumentation; vehicle barrier systems; mechanics and foundations; and impact analysis. Information on NCHRP projects can be found at the NCHRP Web site at http://www.trb.org/NCHRP/Public/NCHRP.aspx.

OBJECTIVES:
To provide a mechanism for State transportation departments to support the TRB's NCHRP Program and Services.

PARTNERS:
All states participate in this program.

OKLAHOMA INVOLVEMENT:
Serve as NCHRP Project Panel members when called upon, respond to study surveys and provide other support to projects as appropriate.

Study Period	2024	2025	2026 Estimate
State Contribution ($)	$1,015,652	$919,203	$919,203

ESTIMATED COMPLETION DATE: July 2025

POINTS OF CONTACT:
Lead: Jean Landolt, 202-493-3146
ODOT: Tara Cullum, 405-521-8151
FHWA: Jean Landolt, 202-493-3146

TPF-5 (394) Western Maintenance Partnership – Phase 3

PURPOSE AND SCOPE:
In the 1980's the Rocky Mountain Maintenance Tour established a highly effective forum for the exchange of information, techniques, policies and strategies for the maintenance of the Highway System. Since that time the role of Maintenance as a critical element in the overall management of the State Highway infrastructure has increased. Most Maintenance managers have been completely replaced since the ending of the Rocky Mountain Maintenance Tour. The primary focus has also shifted from new construction and major rehabilitation to more attention to infrastructure preservation and asset management via cost effective maintenance. Reactive maintenance alone is not adequate to overcome the challenges of rapid deterioration of roads, considering aging of the infrastructure and growing economic constraints. The Western Maintenance Partnership (WMP) previously ran from 2006-2014 as TPF-5(145), and from 2015-2019 as TPF-5(312). This 5-year continuation of the WMP will pool the efforts of the participating agencies to provide a focused look at Maintenance, and will partner with WASHTO states to share experiences, innovations, expertise and solutions to the complex management of highway assets. Maintenance issues include policies, practices, specifications, field investigations, applied research, materials, and training. It is expected that a roundtable and sharing of field experience via hands on demonstration of features will be key elements of the annual meetings.

OBJECTIVES:
The purpose of the Western Maintenance Partnership (WMP) continuation is to provide a partnering forum for promoting effective maintenance strategies through the following objectives: - Provide travel reimbursement funds for an annual meeting (WASHTO Committee on Maintenance) and a multi-day annual workshop/scan tour, for discussion and exchange of information and knowledge about each state's maintenance program. - Provide a means to define, support and share technology of mutual interest. - Provide funds for formal training presentations during the annual workshop. - Provide funds for management support of WMP. - Provide funds for special studies, investigations, research and training.

PARTNERS:
CA, ID, MT, NV, OK, SD, TX, UT, WA

OKLAHOMA INVOLVEMENT:
Attended the yearly meeting in California, participate in quarterly meetings and provide data input.

Study Period	2022	2023
State Contribution ($)		$15,000

Active and Paid

ESTIMATED COMPLETION DATE: December 31, 2026

POINTS OF CONTACT:
Lead: David Stevens, 801-589-8340
ODOT: Alex Calvillo, 405-521-2557
FHWA: Russell Robertson, 801-955-3512

TPF-5 (398) Moving Forward with Next Generation Travel Behavior Data Collection and Processing

PURPOSE AND SCOPE:
Since 1969, the Federal Highway Administration has been collecting travel data to answer evolving questions related to how, why, when and where people travel through a probability based random sampling survey. Given the current challenges and opportunities in collecting travel behavior data, FHWA is launching the Next Generation Travel Behavior Data Initiative to establish a continuous travel monitoring program that will provide annual national and local data. The work plan for the next 5 years is to gather and publish annual national travel behavior data and offer opportunities for States, MPOs, and other entities to obtain agency-specific data.

OBJECTIVES:
The objectives of the Next Generation Travel Behavior Data Initiative are as follows:

1) Establish the Next Generation Travel Behavior Data program to collect, process, estimate, and report national, state and local travel behavior data on an annual basis.

2) Enable and facilitate State transportation departments, MPOs, and other entities' participation in the new local data gathering program with high efficiency and great flexibility.

PARTNERS:
Virginia DOT, Maricopa Association of Governments, EPA, Metropolitan Washington Council of Governments, AAA Foundation for Traffic Safety, Atlanta Regional Commission, AZDOT, CAMPO, GADOT, HI, MDOT SHA, MI, NC, NY, Oahu MPO, OH, OK, OR, SC, TN, WI

OKLAHOMA INVOLVEMENT:
ODOT will use the results of this study to enhance planning and programming input parameters in support of the Agency's construction and maintenance programs.

Study Period	2019	2020	2021	2022
State Contribution ($)	25,000	25,000	25,000	25,000

Active and Paid

ESTIMATED COMPLETION DATE: September 2025

POINTS OF CONTACT:
Lead: Daniel Jenkins, 202-366-1067
ODOT: Laura Chaney, 405-521-2704
FHWA: Daniel Jenkins, 202-366-1067

TPF-5 (431) Applications of Enterprise GIS for Transportation, Guidance for a National Transportation Framework

PURPOSE AND SCOPE:
Perform self-assessment of existing data policies to determine if they support data quality and sharing. Identify common needs for state and local government transportation agencies responsible for data collection. Define the role of LRS in data collection and establish core requirements for LRS. Establish guidelines for transportation mapping practices.

OBJECTIVES:
This pooled fund study project will assist the state DOT's and local governments to create enterprise GIS data management systems based on data governance best practices that support collaboration through shared business rules and standards. The goal is to have a single roadway dataset that meets the needs of multiple groups. The first phase of this project will be to develop guidance to be named, a document that will guide the DOTs to one geospatial standard.

PARTNERS: ADOT, CA, FHWA, FL, GADOT, ID, MA, NC, NM, OH, OK, PADOT, TN, WA, North Dakota Department of Transportation

OKLAHOMA INVOLVEMENT:
ODOT will be providing data throughout the study as requested and attend the quarterly virtual meeting, and annual meetings as required.

Study Period	2020	2021
State Contribution ($)	50,000	50,000

Active and Paid

ESTIMATED COMPLETION DATE: December 2025

POINTS OF CONTACT:
Lead: Noel Alcala, 614-466-2848
ODOT: Lance Underwood, MBA (405) 738-7688
FHWA/Lead: Joseph Hausman, 202-366-9629

TPF-5 (437) Technology Transfer Concrete Consortium (TTCC) (FY20–FY24)

PURPOSE AND SCOPE:
Increasingly, state departments of transportation (DOTs) are challenged to design and build longer life concrete pavements that result in a higher level of user satisfaction for the public. Collaboration between experts from state DOTs, Federal Highway Administration (FHWA), academia and industry are important for identifying and examining new concrete pavement research initiatives. Pooled fund activities and budgets are discussed at the semi-annual meetings. Partners often present proposals for minor research, synthesis studies, and/or training for discussion and voting at the semi-annual meetings. NCC members may propose needed research and/or training, however they may not vote on how to utilize the federal pooled funds. Occasionally e-mail discussions and votes are warranted.

OBJECTIVES:
The Iowa DOT, through the National Concrete Pavement Technology Center (CP Tech Center) at Iowa State University, will serve as the lead state, handling all administrative duties associated with the project. The CP Tech Center will also serve as the lead research institution for the project.

Efforts for the TTCC include these examples:

- Maintain the TTCC pooled fund listserv and website with current activities and deliverables
- Guide the development of technology transfer materials (tech brief summaries and training materials)
- Contribute to a technology transfer newsletter for the CP Road Map project website
- Publish electronic quarterly reports following lead state guidelines
- Submit a final report to participants that documents the results of the entire project

PARTNERS:
AL, CA, CO, FL, GADOT, IADOT, ID, IL, IN, KS, KY, MA, MI, MN, MO, MT, NC, ND, NE, NV, NY, OH, OK, OR, PADOT, SC, TN, TX, UT, WA, WI, WV, WY

OKLAHOMA INVOLVEMENT:
Oklahoma provides data input for the studies; participate in quarterly meetings via conference call; attend annual meetings.

Study Period	2020	2021	2022	2023	2024	2023
State Contribution ($)	12,000	12,000	12,000	12,000	12,000	12,000

ESTIMATED COMPLETION DATE: September 2026

POINTS OF CONTACT:
Lead: Khyle Clute, 515-239-1646
ODOT: Nairi Matevosyan, 405-521-4999
FHWA: Mike Praul, 207-512-4917

TPF-5 (439) TECHNOLOGY EXCHANGE on MANAGING PAVEMENTS

PURPOSE and SCOPE:

The main tasks to be accomplished include the following: Learning Session/TAC meeting – Coordinate a workshop Technical Advisory Committee meeting for member states to learn and review issues associated with implementation of pavement management. Since member states may be at different stages of implementation, this is an opportunity to share best practices and strategies for overcoming certain challenges. This meeting may be planned as a separate webinar or may be held in conjunction with the conference. 11th International Conference on Managing Pavement Assets (ICMPA11) – Provides a venue for the member states to exchange information on the challenges to pavement management development and implementation. The pooled fund will help support conference state and local participants travel and expenses.

OBJECTIVES:

Provide communication and information sharing regarding pavement management practices and innovation among member states. Discuss research needs and provide research ideas to TRB. Provide a technology and knowledge exchange forum to enhance the practical knowledge of member states concerning pavement management implementation and how to support asset management activities. Enhance the working knowledge of the pavement management community.

PARTNERS:

CA, CT, IADOT, ID, IL, KS, MS, ND, NM, OK, TX

OKLAHOMA INVOLVEMENT:

Oklahoma will provide input data as requested and will attend either in person or virtually the quarterly and yearly meetings.

Study Period	2020
State Contribution ($)	12,500

Active and Paid

ESTIMATED COMPLETION DATE: January 2025

POINTS OF CONTACT:

Lead: Khyle Clute, 515-239-1646
ODOT: Amanda Warren, 405-521-2602

TPF-5 (442) Transportation Research and Connectivity

PURPOSE AND SCOPE:
The primary goal is to enhance the services which transportation libraries provide through the development of new procedures and technologies for transportation research findability and connectivity. The work plan will be developed based on recommendations by members of the pooled fund study.

OBJECTIVES:
To support coordinated development of transportation libraries as well as research organizations without dedicated libraries. The noted objectives will be accomplished through member activities and partnerships with professional groups such as the Transportation Research Board (TRB) Library and Information Science for Transportation Committee (LIST), the Special Libraries Association (SLA) Transportation Division, and the National Transportation Knowledge Network (NTKN). Completed projects will be stored permanently at the NTKN and the National Transportation Library (NTL) for public use and will be completed within the three-year span of the pooled fund study. The specific objectives are: 1.Develop a toolkit of recommendations and best practices for transportation research organizations that do not have a transportation librarian.2.Partner with the NTKN to analyze effectiveness of lib-guides, identify gaps in coverage, and survey the needs of DOTs.3.Develop a white paper analyzing the current condition of transportation information infrastructure, including review of pertinent knowledge management resources.4.Develop a cooperative digitization project among members, in partnership with the NTL, to convert copies of older materials to digital formats, as well as providing ADA compliance support for digital documents.5.Enhance communication between group members.

PARTNERS:
Northwestern University Transportation Library, Maggie Sacco Curcio, MLS, AZDOT, CA, ID, IL, MO, NC, NJ, NV, NY, OK, OR, TX, UT, WI, WY

OKLAHOMA INVOLVEMENT:
ODOT has contracted with the Board of Regents of The University of Oklahoma to lead this study. The contractor will continue to facilitate monthly/quarterly conference calls and annual in-person meetings as scheduled. A subcontractor, CTC & Associates, Inc., is handling selected tasks.

Study Period	2020	2021	2022	2024	2025	2026	2027
State Contribution ($)	25,000	25,000	25,000	25,000	25,000	25,000	25,000

ESTIMATED COMPLETION DATE: September 2027
POINTS OF CONTACT:
Lead: ODOT Engineering Manager: Gary Hook P.E., ghook@odot.org

ODOT: Gary Hook, 405-420-2596
FHWA: Richard Meininger, 202-493-3191

TPF-5 (447) Traffic Control Device (TCD) Consortium

PURPOSE AND SCOPE:

The following are examples of issues that have been and will be addressed by the TCD PFS: pavement markings for speed reduction, signing and marking for roundabouts and alternative intersections, pedestrian countdown signals, colors for Electronic Toll Collection (ETC) only tollbooth lanes, evaluation of new and existing symbol signs, alternative flashing patterns, diagrammatic and overhead arrow per lane guide signs, lane reduction signing and marking, sign conspicuity.

OBJECTIVES:
The objective of this pool fund is to assemble a consortium composed of State Departments of Transportation; additional interested entities or organizations; County, regional, and/or local transportation agencies; and FHWA program offices to meet national and state needs in support of the MUTCD. Activities of the consortium include:

a) Identify human factors, safety, and operational issues related to TCDs;
b) Select new and existing TCDs for evaluation;
c) Initiate and monitor research projects;
d) Disseminate results; and
e) Facilitate collaboration and information sharing among members.

PARTNERS:
New Jersey DOT, AL, AZDOT, CO, CT, DE, FL, GADOT, IADOT, ID, IL, KS, KY, MA, MDOT SHA, MI, MO, MS, MT, NC, NE, NHDOT, NJ, NY, OR, PADOT, SC, TN, TX, WI

OKLAHOMA INVOLVEMENT:
Provide required monthly data, attend quarterly virtual meetings, attend the meeting.

Study Period	2024	2025	2026
State Contribution ($)	$10,000	$10,000	Active and Paid

ESTIMATED COMPLETION DATE: December 2027
POINTS OF CONTACT:
Lead: Laura Mero, 202-493-3377
ODOT: Cody Hamblin, 405-820-1895
FHWA: Laura Mero, 202-493-3377

TPF-5 (451) Road Usage Charge West

PURPOSE AND SCOPE:
RUC West is a voluntary coalition of state DOTs and provincial Ministries of Transport that are committee to collaborative research and development of a potential new funding method that would collect a road usage charge (RUC) based on actual road usage. Subject to available Transportation Pooled Fund resources and separate funding from consortium members the work plan will undertake select topics, research projects and activities that relate to RUC.

OBJECTIVES:
Explore the technical and operational feasibility of a multi-jurisdictional road usage charge system. Investigate public and key decision maker criteria for acceptance and share experience and lessons learned to foster positive outcomes. Develop standards and protocols for how road use charges could best be collected and remitted among the various jurisdictions. Develop preliminary operational concepts for how a multi-jurisdictional road usage charge system could be administered. Develop a model for regional cooperation and interoperability that can be used in the Western region and potentially across North America. Engage the automotive manufacturing and technology sector to encourage the ability for mileage reporting to occur in conjunction with other products and services the sector provides in the marketplace. Share knowledge to maximize the preparedness for and efficiency of policy and program development for road usage charging among the members.

PARTNERS:
AK, AZDOT, CA, CO, HI, ID, KS, MT, ND, NE, NM, NV, OK, OR, TX, UT, WA, WY

OKLAHOMA INVOLVEMENT:
Oklahoma provides data input for the studies; participate in quarterly meetings via conference call; attend annual meetings.

Study Period	2021	2024	2025	2026
State Contribution ($)	$25,000	$25,000	$25,000	Toll Credits

ESTIMATED COMPLETION DATE: September 2027 Active and Paid

POINTS OF CONTACT:
Lead: Randal Thomas, 971-240-7094
ODOT: Dawn Sullivan, 405-521-4768

TPF-5 (456) EconWorks - Improved Economic Insight

PURPOSE AND SCOPE:
The scope of work to operate, maintain and improve the EconWorks website over a five-year period (2019 to 2024) includes the following:

- Host the website and ensure EconWorks tools are operational for all users.
- Provide technical assistance to users utilizing the EconWorks website and tools.
- Develop and add new case studies for inclusions into the EconWorks database.
- Provide webinars and other outreach efforts to ensure all target audiences understand the benefits of EconWorks and are kept up to date on user tips.
- Provide oversight and management of the Econ-Works website. Provide for ongoing support of the site after the termination of the pooled fund study.

OBJECTIVES:
The focus of this pooled fund project will be to support transportation planners with a better understanding of the economic impact of transportation projects by continuing the overall operation, maintenance and improvement to the EconWorks website, and completing and adding additional case studies to provide more robust economic analysis.

PARTNERS:
AR, CT, GADOT, IL, KS, MA, MN, ND, NE, NJ, OK, OR, SC, TN, TX, VA, WI

OKLAHOMA INVOLVEMENT:
Oklahoma provides data input for the studies; participate in quarterly meetings via conference call; attend annual meetings.

Study Period	2020	2021	2022	2023	2024
State Contribution ($)	20,000	($4,000>	Per yr.>	Pre-Paid through>	2024)

ESTIMATED COMPLETION DATE: August 2024

POINTS OF CONTACT:
Lead: Chris Dailey, Chris.Dailey@ardot.gov
ODOT: Laura Chaney, 405-521-2705

TPF-5 (465) Consortium for Asphalt Pavement Research and Implementation (CAPRI)

PURPOSE AND SCOPE: To continue fostering the development of new technologies and practices, this pooled fund study will identify and address national priority research and implementation needs for asphalt pavements that state DOTs face today and in the future. The goals of CAPRI are to, provide technical guidance on current and evolving specifications for asphalt materials, develop asphalt pavement research needs, conduct small-scale studies to address knowledge gaps or explore new topics, foster the implementation of practical research findings to help improve the performance, sustainability, value, and safety of asphalt pavements.

OBJECTIVES: The objectives of CAPRI are to, provide technical guidance on current and evolving specifications for asphalt materials, develop asphalt pavement research needs, conduct small-scale studies to address knowledge gaps or explore new topics, foster the implementation of practical research findings to help improve the performance, stainability, value, and safety of asphalt pavements. As a consortium of all asphalt pavement stakeholders, CAPRI will be a key resource to the AASHTO Committee on Materials and Pavements, state DOTs, FHWA, and industry.

SCOPE OF WORK: Activities related to the above goals will be developed through semi-annual meetings rotated among participating organizations. CAPRI meetings will serve as a forum to facilitate knowledge sharing among participants. Outcomes of CAPRI meetings will include technical guidance articles on high profile issues, and research need statements (RNSs) organized into a new National Asphalt Research Roadmap (NARR) that will be made public through a website managed and maintained by NCAT.

PARTNERS:
AL, CO, FL, GADOT, IADOT, ID, IN, KY, MO, MS, NC, NY, OH, OK, PADOT, SC, TN, TX, WI

OKLAHOMA INVOLVEMENT: Provide input to the CAPRI through the in-person meetings, through sharing ideas in asphalt pavement design and research, providing problem statements to the group.

Study Period	2022	2023	2024	2025
State Contribution ($)	10,000	10,000	10,000	10,000

Active and Paid

ESTIMATED COMPLETION DATE: October 2025

POINTS OF CONTACT:
Lead: Virgil Clifton, 334-353-6944
ODOT: David Vivanco, 405-923-5897
FHWA: David Mensching, 206-336-1286

TPF-5 (467) Research Project Tracking System

PURPOSE AND SCOPE: The study will be conducted in three phases:
Phase 1: Development of Common Functional Requirements

Phase 2: Procurement of Software Developer and Development of

Phase 3 – Ongoing System Support Once the system has been delivered and is

operational in each of the participating states, there will be a need for the system developer to provide ongoing support. This will include bug fixes, minor enhancements, and general technical assistance and follow-up training. A contract will be established (possibly a continuation of the original development contract) for this ongoing support. Each participating state will contribute to the cost of this support, thus minimizing the cost to each state.

OBJECTIVES:
Develop common functional requirements, a software solution and maintenance of the software solution for a Research Program Tracking System to be used by multiple DOTs

PARTNERS:
AL, AR, AZDOT, CO, DC, FL, ID, KS, KY, MO, MS, NE, NJ, NM, OK, SD, TX, VA, VT, WI

OKLAHOMA INVOLVEMENT:
Oklahoma provides data input for the studies; participate in quarterly meetings via conference call; attend annual meetings.

Study Period	2023
State Contribution ($)	46,000

ESTIMATED COMPLETION DATE: August 2026

POINTS OF CONTACT:
Lead: Jarrod Stanley, jarrod.stanley@ky.gov
ODOT: Beckie Lyons, blyons@odot.org

TPF-5 (469) Accelerated Performance Testing on the 2021 NCAT Pavement Test Track with MnROAD Research Partnership

PURPOSE AND SCOPE:
The scope of work for the pooled fund project will include:

- Hauling materials to the project from offsite locations.
- Rebuilding sections in accordance with sponsors' directives via competitively bid subcontracts administered by NCAT.
- Installing both environmental and response instrumentation in new experimental sections.
- Operating a 5-truck heavy triple-trailer fleet in order to apply accelerated truck traffic on the NCAT test oval following the completion of construction. Human drivers operate NCAT vehicles in order to best induce representative vehicle wander.
- Safely measuring field performance (e.g., rutting, roughness, texture, cracking, deflection, friction, etc.) on a regular basis. Pavement response will also be measured on a routine basis.
- Conducting laboratory testing to quantify basic material and mix performance**,** which will serve as the basis of performance model development**.**

OBJECTIVES:
The primary objectives of the pooled fund project described herein will be: Constructing experimental pavements on the existing 1.7-mile NCAT test oval and the MnROAD mainline bypass that are representative of in-service roadways on the open transportation infrastructure; Applying accelerated performance truck traffic after construction for the duration of the 3-year research cycle; Assessing/comparing the functional and structural field performance of trafficked sections on a regular basis via surface and subsurface measures; Validating/calibrating new and existing methodologies for analysis and design using pavement surface condition, pavement load response, precise traffic and environmental logging, and cumulative damage; Correlating field results with laboratory data for both mix and structural performance; and Answering practical questions posed by research sponsors through formal (i.e., reports and technical papers) and informal (e.g., one-on-one responses to sponsor inquiries) technology transfer. For example, can pavement thickness be reduced as a result of the addition of premium mix additives, and if so, does the thickness reduction offset the additional cost of construction?

PARTNERS:
Virginia DOT, AL, FHWA, FL, GADOT, KY, MS, NC, NY, OK, SC, TN, TX

OKLAHOMA INVOLVEMENT:
Oklahoma had sections and support from 2018-2020 for the following areas: N9, S1, the Preservation Group, and the Cracking Group under TPF-5(374) and (375). From 2021 thru 2023 Oklahoma will sponsor the following sections: N9, S1 and N8 (NCAT, but not MnROAD).

Study Period	2021	2022	2023
State Contribution ($)	466,667	416,667	416,666

Active and Paid

ESTIMATED COMPLETION DATE: January 31, 2024

POINTS OF CONTACT:
Lead: Virgil Clifton, 334-353-6944
ODOT: David Vivanco, 405-521-2677
FHWA: Derek Nener-Plante, 202-763-4017

TPF-5 (478) Demonstration to Advance New Pavement Technologies Pooled Fund

PURPOSE AND SCOPE: FHWA will collaborate with the Technical Advisory Committee (TAC) and the contributing State DOTs to define the parameters of each of their state's demonstration project. The FHWA contribution will be used to provide up to $250,000, up to 100 hours of technical assistance, and resources for developing case study reports and videos for each selected demonstration project. The amount of support that will be contributed to each project will vary and ultimately be decided by the TAC. Additionally, FHWA will host a website for publishing case studies and other relevant project documents, as well as peer exchanges for showcasing lessons learned and best practices from the projects. Each state DOT will be expected to participate in pooled fund meeting opportunities and actively collaborate with other states and FHWA to advance these initiatives. The state DOT will complete a report documenting the initiative and outcomes of selected state DOT demonstration projects by using a standard reporting template provided by FHWA.

OBJECTIVES: This pooled fund seeks to support and showcase the implementation of innovative pavement technologies, products, and processes by State DOTs by leveraging of Federal investments with State DOT partnerships.

PARTNERS:
AZDOT, CO, GADOT, HI, IADOT, ID, IL, MO, MS, OK, PADOT, TX, WI

OKLAHOMA INVOLVEMENT:
Oklahoma will provide data for this study, they will also provide a project for the pool fund study, attend meetings as requested.

Study Period	2022	2023	2024	2025	2026
State Contributions ($)	10,000	10,000	10,000	10,000	10,000

ESTIMATED COMPLETION DATE: December 2026

POINTS OF CONTACT:
Lead: Sharon Snead, 202-366-1553
ODOT: David Vivanco, 405-522-4986
FHWA: Sharon Snead, 202-366-1553

TPF-5 (479) Clear Roads Winter Highway Operations Phase 3

PURPOSE AND SCOPE:
The Clear Roads pooled fund project began in 2004 with four members and a focus on real world testing of winter maintenance materials, methods, and equipment. During its twelve years of funding and overseeing research projects, the pooled fund has grown to include thirty-six member states funding three to ten research projects annually. Clear Roads' latest projects and partnership initiatives have included a strong emphasis on implementation and technology transfer through an enhanced online presence and the use of web-based tools – such as the Accumulated Winter Season Severity Index (AWSSI) and the Weather Event Reconstruction and Analysis Tool - to more effectively share research results and successful practices among agencies. Clear Roads has taken steps to become a national resource for winter maintenance professionals by assuming leadership of the Qualified Products List from the Pacific Northwest Snow fighters, creating the Winter Preparedness Website.

OBJECTIVES:
Objectives of the new phase of the Clear Roads pooled fund project will include: • Conduct structured field testing and evaluation across a range of winter conditions and different highway maintenance organizational structures to assess the practical effectiveness, ease of use, optimum application rates, barriers to use, durability, safety, environmental impact, and cost-effectiveness of innovative materials, equipment, and methods for improved winter highway maintenance. • Conduct research that explores the use of innovative materials, equipment, and processes that will promote environmentally sustainable winter maintenance operations. • Conduct cost-benefit analyses to ensure that new technologies, materials, or methods contribute to operational efficiency.

PARTNERS:
AK, AZDOT, CA, CO, CT, DE, IADOT, ID, IL, IN, KS, KY, MA, MDOT SHA, ME, MI, MN, MO, MT, ND, NE, NHDOT, NJ, NV, NY, OH, OK, OR, PADOT, RI, SD, TX, UT, VA, VT, WA, WI, WV, WY

OKLAHOMA INVOLVEMENT:
Oklahoma will provide data input; participate in quarterly meetings; attend annual meetings.

Study Period	2024	2025	2026
State Contribution ($)	25,000	25,000	25,000

ESTIMATED COMPLETION DATE: June 30, 2025

POINTS OF CONTACT:
Lead: Leif Halverson, 651-366-3578
ODOT: Alex Calvillo, 405-521-2557
FHWA: Jeremy McGuffey, 202-493-3233

TPF-5 (480) Building Information Modeling (BIM) For Infrastructure

PURPOSE AND SCOPE:
The activities that advance the short- and medium-term goals of the BIM National Strategic Work Plan will be prioritized and carried out by the pooled fund participants. Meetings will serve as a forum to facilitate knowledge sharing among participants. Proposed activities include: • Develop BIM foundational use cases and workflows. Highlight more effective digital exchange of information (e.g., survey to design, design to construction, construction to asset management, etc.). This kind of exchange will increase collaboration and automation, reduce duplication of effort and avoid errors. • Establish BIM Processes (e.g., Develop contract model language to guide BIM procurements.) • Identify and Execute Capacity-Building Activities (e.g., Establish project selection criteria for BIM implementation; Identify project types and use cases for early pilot projects phase). • Enhance Skills and Collaboration (e.g., Establish workforce training curriculum to set expectations about required BIM qualifications.

OBJECTIVES:
The pooled fund serves as the mechanism for stakeholders to work collaboratively to advance BIM for Infrastructure. This will involve building off the foundational work that was charted out in the BIM National Strategic Work Plan, with emphasis on increasing coordination and awareness of BIM technologies and activities. This pooled fund will coordinate with efforts of TPF-5(372) focusing on BIM for Bridges and Structures.

PARTNERS:
AZDOT, CA, CT, FL, GADOT, IADOT, IL, IN, KY, MI, MN, MS, MT, NE, NY, OK, PADOT, SC, TX, UT, WI

OKLAHOMA INVOLVEMENT:
Provide required monthly data, attend quarterly virtual meetings, attend the meeting.

Study Period	2024	2025
State Contribution ($)	$75,000	$75,000

Active and Paid

ESTIMATED COMPLETION DATE: December 31, 2027
POINTS OF CONTACT:
Lead: Khyle Clute, 515-239-1646
ODOT: Katie Brown, 405-521-6489
FHWA: Katherine Petros, 202-493-3154

TPF-5 (484) Develop Countermeasure Strategies for Protecting Bridge Girders against Over-Height Vehicles Impact

PURPOSE AND SCOPE:
The innovative steel beam/honeycomb protective system is anticipated to dissipate a large portion of the energy from the colliding truck by crushing/deforming the honeycombs. The effectiveness of this device has been investigated recently by large-scale testing in collaboration with the researchers at Hunan University. With the success of the large-scale testing program, the actual field installation of full-scale model is deemed necessary to validate its effectiveness to protect existing bridge structures. In particular, this project aims at the following: design of the full-scale testing program and selection of bridge site for the field installation; custom construction and installation of the full-scale model.

OBJECTIVES:
This project will carry out in two phases which include the following eleven (11) main tasks: 1. Develop an over-height impact program for outdoor full scale testing including site & vehicles selection and logistics. 2. Investigate the protection system extensively through numerical simulations on different impact scenarios. 3. Design an effective installation of the proposed protective system including supporting systems, connections, the protective system and means for easy replacement of damaged components.4. Design the entire setup for full-scale prototype testing including the girders to be impacted or a system supporting girder to be impacted that can represent the behavior of an actual bridge through numerical simulations. 5. Prepare and publish the Phase I report including outcomes of the tasks carried out in this phase.6. Conduct full-scale prototype testing to demonstrate the effectiveness of the proposed protective system. 7. Perform parametric studies on the impact performance of the protection devices installed on the prestressed /steel girders. 8. Develop a design method for proportioning the protective system to achieve a specific performance (performance-based approach). 9. Develop design examples and templates to illustrate the design of the protective system for different impact scenarios. 10. Develop new design guidelines for fascia girder to resist the impact loads due to over-height heavy vehicles without protection system. 11. Prepare and publish the final report including findings and outcomes of all the tasks completed in this project.

PARTNERS:
Virginia Department of Transportation, AK, FHWA, LA, NJ, NY, OK

OKLAHOMA INVOLVEMENT:
Oklahoma will provide input data as requested and will attend either in person or virtually the quarterly and yearly meetings.

Study Period	2022	2023	2024
State Contribution ($)	70,000	70,000	70,000

Active and Paid

ESTIMATED COMPLETION DATE: December 2027

POINTS OF CONTACT:
Lead: Vincent Chiarito, 202-366-4621
ODOT: Matt Casillas, 405-521-2606
FHWA: Thonglinh Warren, 202-366-8501

TPF-5 (492) 2023 through 2025 Biennial Asset Management Conference and Training on Implementation Strategies

PURPOSE AND SCOPE:
The Iowa Department of Transportation (Iowa DOT) will serve as lead state for the execution of this Pooled Fund project. The Transportation Research Board (TRB) will facilitate administrative duties associated with the project and will invoice the Iowa DOT for reimbursement up to the amount available in the Pooled Fund. The principal tasks are: Learning Session/TAC meeting – Coordinate a workshop Technical Advisory Committee meeting for member states to learn and review issues associated with implementation. Survey of State DOT Asset Management Practices – Coordinate an annual survey of state DOT asset management practices. This survey will be conducted in conjunction with the TRB Standing Committee on Asset Management (AJE30) and the AASHTO Subcommittee on Asset Management (CPBM-AM). The results of the survey will help states evaluate their asset management status and will provide valuable information to support development of content for the conference and training activities. Biennial Asset Management Conferences – Provide a venue for the member states to exchange information on the challenges to asset management implementation.

OBJECTIVES:
Provide communication and information sharing among member states. Discuss research needs and provide research ideas to be developed through TRB (and other research opportunities). Provide a technology and knowledge exchange forum to enhance the practical knowledge of member states concerning asset management implementation. Enhance the working knowledge of the asset management community.

PARTNERS:
AK, CA, CO, CT, IADOT, IL, IN, LA, MDOT SHA, MI, ND, NE, NV, OH, OK, PADOT, TX, UT, WA, WI

OKLAHOMA INVOLVEMENT:
Attended the yearly meeting, participate in quarterly meetings and provide data input.

Study Period 2025

Active and Paid

State Contribution ($) 12,000

ESTIMATED COMPLETION DATE: October 31, 2026

POINTS OF CONTACT:
Lead: Khyle Clute, 515-239-1646
ODOT: Lance Underwood, 405-764-4620
FHWA: Mshadoni Smith-Jackson, 202-366-7105

TPF-5 (517) Performance Centered Concrete Construction

PURPOSE AND SCOPE: A Performance Centered Concrete Construction initiative will assure that any new concrete pavement or overlay will last for the intended period, with a minimum of distress, at a low life-cycle cost in an increasingly sustainable way. Reducing the need to replace or repair any concrete pavement will provide the direct benefits of saving money, decreasing CO2 footprint, and easing traffic delays – all of which are beneficial to sustainability. Fewer closures over the life of the pavement also enhances the safety of the traveling public and roadworkers. The Performance Engineered Mixtures (PEM) program, TPF-5(368), addressed the need to specify, measure and deliver concrete paving mixtures that perform as intended for their design lifetime and beyond.

OBJECTIVES: Surveys conducted for the past 5 years indicate that a number of states have changed or are in the process of changing their specifications in response to the PEM initiative. It is time to consider "what's next?" The intent of this proposed work is to answer that question. The fundamental philosophy is unchanged; the ability to specify, measure, and deliver concrete paving mixtures that perform as intended for their design lifetime and beyond. Having the capability to consistently prepare reliable, high-performing mixtures at the batch plant naturally leads to the need to evaluate what happens to the concrete through the stages of transportation, placement, finishing and sawing.

PARTNERS:
CO, IADOT, ID, KS, MI, MO, ND, NM, OK, PADOT, WI

OKLAHOMA INVOLVEMENT:
Oklahoma will provide data for this study, they will also provide a project for the pool fund study, attend meetings as requested.

Study Period	2025	2026	2027
State Contributions ($)	40,000	20,000	20,000

ESTIMATED COMPLETION DATE: December 2027

POINTS OF CONTACT:
Lead: Khyle Clute, 515-239-1646
ODOT: Nairi Matevosyan, 405-521-2186
FHWA: Michelle Cooper, 202-493-3691

TPF-5 (518) Implementation of Structural Data from Traffic Speed Deflection Devices

PURPOSE AND SCOPE: Previous research has shown the benefit of including structural condition along with pavement surface condition in pavement management decision-making processes. Since 2018, 26 agency partners (plus FHW

A) have participated in Transportation Pooled Fund Study TPF 5(385) Pavement Structural Evaluation with Traffic Speed Deflection Devices (TSDDs) where structural condition data was collected on more than 50,000 miles of roadways across the United States. These data, along with new or enhanced analysis methodologies developed as part of this pooled fund research effort, have been used in a variety of ways that include: pavement performance forecasting that incorporates both surface and structural condition, network preservation and rehabilitation strategy planning, network-level screening, and project level investigation. A subset of the data collected as part of this pooled fund has also been incorporated within FHWA's Info-Materials web portal to make it readily available to the broader pavement community to support additional research and analysis efforts. This pooled fund study has also proved to be a convenient contracting mechanism assisting states with establishing pavement structural data collection programs. In addition, participation in the pooled fund study has provided agency partners with a means for collaboration with other agencies and leading researchers studying the best ways to analyze and implement pavement structural data into agency pavement management systems.

OBJECTIVES: The objectives of this follow-on pooled fund study include continuation of an existing research consortium that focuses on providing participating agencies guidance on how to specify and implement TSDD data within their respective pavement management systems and processes. Specific tasks within this multi-year program will be developed in cooperation with the partner agencies.

PARTNERS:
AR, CA, ID, IL, KS, KY, MI, MN, MO, MS, MT, ND, NM, NV, OK, PADOT, SC, TN, TX, VA, VT, WI

OKLAHOMA INVOLVEMENT:
Oklahoma will provide data for this study, they will also provide a project for the pool fund study, attend meetings as requested.

Study Period	2025	2026	2027
State Contributions ($)	102,000	55,000	55,000

ESTIMATED COMPLETION DATE: December 2027

POINTS OF CONTACT:
Lead: Brain Diefenderfer, 434-293-1944
ODOT: Angel Gonzalez, 405-437-5688
FHWA: Nadarajah Sivanjwaran, 202-493-3147

TPF-5(523) Building Information Modeling (BIM) for Bridges and Structures – Phase 2

PURPOSE AND SCOPE:
Based on the BIM uses prioritized under TPF-5(372), develop national standards for data definitions, requirements and validation tools for the bridge life cycle for multiple data exchanges for transportation bridges and structures.

1. Develop training materials to continue deployment of the outcomes from TPF-5(372) and additional data standards developed under this project.
2. Provide technical support, organize training workshops, and facilitate pilot/demonstration projects for bridge owners to encourage and accelerate the adoption of BIM for Bridges and Structures.
3. Assist AASHTO members with collaboration efforts with the AASHTO Joint Subcommittee on Data Standardization, FHWA, the Transportation Research Board, and other transportation pooled funds.
4. Collaborate with building SMART and software vendors.
5. Collect and quantify the benefits of using the IFC standard per the methodology suggested in TPF-5(372).
6. Explore technology or tools to enable secure mechanisms for signing and sealing model-based deliverables.
7. Conduct a literature search on contractual provisions for digital model-based delivery and develop recommendations for a national framework.
8. Investigate opportunities to improve existing workflows to leverage model exchanges for the bridge lifecycle.

OBJECTIVES:
This pooled fund project will provide the primary mechanism for AASHTO COBS T-19 to expand and refine the outcomes of TPF-5(372) and developing additional guide specifications for open BIM national data standards to support model-based exchanges of workhorse bridges.

PARTNERS:
DE, FL, GADOT, IADOT, IN, MI, MS, MT, NC, NY, OH, OK, PADOT, TX, UT

OKLAHOMA INVOLVEMENT:
Oklahoma will provide data input; participate in quarterly meetings; attend annual meetings.

Study Period	2024	2025	2026
State Contribution ($)	25,000	25,000	25,000

ESTIMATED COMPLETION DATE: September 30, 2028

POINTS OF CONTACT:
Lead: Khyle Clute, 515-239-1646
ODOT: Justin Hernandez, 405-521-6492
FHWA: Thomas Saad, 708-283-3521

TPF-5 (526) Western Transportation Research Consortium

PURPOSE AND SCOPE: AASHTO RAC Region IV presents this transportation pool funded initiative to conduct strategic research and foster collaboration among member states. Its purpose is to pool the financial, professional, and academic resources of the region to develop improved methods of dealing with common problems in the planning, design, construction, maintenance, management and operation of transportation systems. The consortium will gather DOT research and innovation professionals, virtually or in-person, to prioritize transportation needs and allocate resources. It will also address high priority transportation research topics of common interest to RAC IV states. The lead state will manage contracted services and adhere to the consortium charter.

OBJECTIVES: Address high priority transportation research topics of common interest and for which expertise exists in these states. State DOTs will identify priority topics that they hold in common and for which expertise exists in the region. Potential focus areas can include:

- Research implementation
- Freight issues
- Highway infrastructure issues
- Environmental topics
- Transportation Funding
- Transportation Equity
- Transportation Innovation

PARTNERS:
AK, CA, CO, ID, MT, ND, NE, NM, NV, OK, TX, UT, WA, WY

OKLAHOMA INVOLVEMENT:
Oklahoma will provide data for this study, they will also provide a project for the pool fund study, attend meetings as requested.

Study Period	2024	2025	2026
State Contributions ($)	15,000	15,000	15,000

ESTIMATED COMPLETION DATE: September 2026

POINTS OF CONTACT:
Lead: David Stevens, 801-589-8340
ODOT: Gary Hook, 405- 420-2596
FHWA: Zane Pulver, 801-946-6331

TPF-5 (531) Accelerated Performance Testing on the 2024 NCAT Pavement Test Track with MnRoad Research Partnership

PURPOSE AND SCOPE: NCAT Pavement Test Track was originally constructed as a result of interest and support from state Departments of Transportation (DOTs) who shared a concern for building and preserving safe, sustainable, resilient, and cost-effective pavement infrastructure. Track research operations began in the summer of 2000. Forty-six 200-ft test sections were subjected to 10 million equivalent single axle loadings (ESALs) of heavy truck traffic through December of 2002. Test sections were rebuilt in 2003, 2006, 2009, 2012, 2015, 2018, and 2021 with 10 million ESALs applied within each 3-year research cycle. NCAT began formally partnering with the Minnesota Road Research Project (MnROAD) in 2015 to execute nationally relevant research in both mix performance testing and pavement preservation. Positive experiences with implementable findings that reduce the life cycle cost of flexible pavements and facilitate rapid deployment of sustainable technologies have made this research an outstanding investment for numerous state DOTs, who pool their resources to share the cost of construction, operations, and research in a cooperative manner. NCAT is again partnering with MnROAD in the 2024 research cycle to execute a pavement performance experiment with nationwide implementation impact.

OBJECTIVES: The primary objectives of the pooled fund project described herein will be: Constructing, maintaining, and/or rebuilding experimental pavements on the existing 1.7-mile NCAT test oval and the MnROAD mainline bypass that are representative of in-service roadways on the open transportation infrastructure.

PARTNERS:
AL, FL, GADOT, KY, MO, MS, NC, NY, OK, SC, TX, VA, WV

OKLAHOMA INVOLVEMENT:
Oklahoma will provide data for this study, they will also provide a project for the pool fund study, attend meetings as requested.

Study Period	2024	2025	2026
State Contributions ($)	450,000	450,000	450,000

ESTIMATED COMPLETION DATE: November 2027

POINTS OF CONTACT:
Lead: Kidada Dixon, 334-353-6940
ODOT: David Vivanco, 405-522-4983
FHWA: Derek Nener, 202-763-4017

TPF-5 (544) Technology Transfer Concrete Consortium (TTCC) (FY25–FY29)

PURPOSE AND SCOPE:
Increasingly, state departments of transportation (DOTs) are challenged to design and build longer life concrete pavements that result in a higher level of user satisfaction for the public. Collaboration between experts from state DOTs, Federal Highway Administration (FHWA), academia and industry are important for identifying and examining new concrete pavement research initiatives. Pooled fund activities and budgets are discussed at the semi-annual meetings. Partners often present proposals for minor research, synthesis studies, and/or training for discussion and voting at the semi-annual meetings. NCC members may propose needed research and/or training, however they may not vote on how to utilize the federal pooled funds. Occasionally e-mail discussions and votes are warranted.

OBJECTIVES:
The Iowa DOT, through the National Concrete Pavement Technology Center (CP Tech Center) at Iowa State University, will serve as the lead state, handling all administrative duties associated with the project. The CP Tech Center will also serve as the lead research institution for the project.

Efforts for the TTCC include these examples:

- Maintain the TTCC pooled fund listserv and website with current activities and deliverables
- Guide the development of technology transfer materials (tech brief summaries and training materials)
- Contribute to a technology transfer newsletter for the CP Road Map project website
- Publish electronic quarterly reports following lead state guidelines
- Submit a final report to participants that documents the results of the entire project

The TTCC has designed this study to foster new technologies and practices by identifying, supporting, facilitating and funding concrete research and technology transfer initiatives. The TTCC is open to any state agency desiring to be a part of new developments in concrete.

PARTNERS:
AL, CA, CO, FL, GADOT, IADOT, ID, IL, IN, KS, KY, MA, MI, MN, MO, MT, NC, ND, NE, NV, NY, OH, OK, OR, PADOT, SC, TN, TX, UT, WA, WI, WV, WY

OKLAHOMA INVOLVEMENT:
Oklahoma provides data input for the studies; participate in quarterly meetings via conference call; attend annual meetings.

Study Period	2026	2027	2028	2029		
State Contribution ($)	20,000	8,000	8,000	8,000		

ESTIMATED COMPLETION DATE: August 2025

POINTS OF CONTACT:
Lead: Khyle Clute, 515-239-1646
ODOT: Nairi Matevosyan, 405-521-4999
FHWA: Mike Praul, 207-512-4917

TPF-5 (550) Performance Based Specifications of Fiber Reinforced Concrete

PURPOSE AND SCOPE: Fiber reinforced concrete has a long history of usage in highway infrastructure. Some promising applications include reducing crack sizes and reducing the amount of steel rebar. Based on the objectives the following deliverables will be produced:· standards for the Split Beam Test and Float test, round robin testing with the Split Beam Test and Float Test, performance criteria for different applications such as bridge decks, overlays, and sidewalks, creep performance of macro synthetic fiber, model specifications for different elements, guide document for producers on how to design and troubleshoot fiber reinforced concrete.

OBJECTIVES:

This work aims to develop a prescriptive and performance-based specification that states could adopt to ensure the required performance in both crack resistance and contractibility of the fiber reinforced concrete. This specification would use the Split Beam Test, ASTM C 1609, creep, and the Float Test to set performance limits for the different fibers. This performance could then be specified based on the required performance or safe dosages of fibers could be prescribed based on the member. For example, a sidewalk, overlay, and bridge deck may have different performance criteria.

PARTNERS:
AR, IL, KS, KY, MN, MO, NE, NY, OK, TX, UT

OKLAHOMA INVOLVEMENT:
Oklahoma will be the lead state for this study and also provide data for this study; they will also attend meetings as requested.

Study Period	2026	2027	2028
State Contributions ($)	30,000	30,000	30,000

ESTIMATED COMPLETION DATE: December 2028

POINTS OF CONTACT:
Lead: Gary Hook, 405-420-2596
ODOT: Justin Hernandez, 405- 521-6492
FHWA: Zane Pulver, 801-946-6331

TPF-5 (554) Traffic Control Device (TCD) Consortium

PURPOSE AND SCOPE:
The following are examples of issues that have been and will be addressed by the TCD PFS: pavement markings for speed reduction, signing and marking for roundabouts and alternative intersections, pedestrian countdown signals, colors for Electronic Toll Collection (ETC) only tollbooth lanes, evaluation of new and existing symbol signs, alternative flashing patterns, diagrammatic and overhead arrow per lane guide signs, lane reduction signing and marking, sign conspicuity.

OBJECTIVES:
The objective of this pool fund is to assemble a consortium composed of State Departments of Transportation; additional interested entities or organizations; County, regional, and/or local transportation agencies; and FHWA program offices to meet national and state needs in support of the MUTCD. Activities of the consortium include:

a) Identify human factors, safety, and operational issues related to TCDs;
b) Select new and existing TCDs for evaluation;
c) Initiate and monitor research projects;
d) Disseminate results; and
e) Facilitate collaboration and information sharing among members.

PARTNERS:
New Jersey DOT, AL, AZDOT, CO, CT, DE, FL, GADOT, IADOT, ID, IL, KS, KY, MA, MDOT SHA, MI, MO, MS, MT, NC, NE, NHDOT, NJ, NY, OR, PADOT, SC, TN, TX, WI

OKLAHOMA INVOLVEMENT:
Provide required monthly data, attend quarterly virtual meetings, attend the meeting.

Study Period	2024	2025	
State Contribution ($)	$10,000	$10,000	

Active and Paid

ESTIMATED COMPLETION DATE: February 12, 2025
POINTS OF CONTACT:
Lead: Laura Mero, 202-493-3377
ODOT: Cody Hamblin, 405-820-1895
FHWA: Laura Mero, 202-493-3377

TPF-5 (557) TRB Core Program Services for a Highway RD&T Program – FFY 2024 (TRB FY 2025)

PURPOSE AND SCOPE:
This solicitation will cover the period of TRB's fiscal year 2025 that begins July 1, 2024, and ends June 30, 2025. Funds committed by participating States will be from their Federal fiscal year 2023 funding.

This pooled fund study permits States to make their contributions to the TRB Core Program instead of sending their contributions to the TRB directly. The TRB Core Program provides support funding for the TRB annual meeting, the committee structure, State visits by TRB, and the TRB publication program.

Note: TPF Number is unknown at time of publication.

OBJECTIVES:
To provide a mechanism for State transportation departments to support the TRB's Core Program and Services.

PARTNERS:
All states participate in this program.

OKLAHOMA INVOLVEMENT:
Support TRB activities including, but not limited to, TRB State Visit, remain abreast and act as appropriate of requests made to TRB State Representative, support ODOT staff who are members of TRB Standing Committee or NCHRP Project Panels, and inform ODOT Staff of TRB webinar and report releases.

Study Period	2025	2026
State Contribution ($)	$162,000	$168,319

ESTIMATED COMPLETION DATE: July 2025

POINTS OF CONTACT:
Lead: Jean Landolt, 202-493-3146
ODOT: Tara Cullum, 405-521-8151
FHWA: Jean Landolt, 202-493-3146

SOL 1633 Connected Corridors Advancement Initiative

PURPOSE AND SCOPE:

The I-80 Corridor Coalition and I-35 Advancement Alliance are spearheading the Connected Corridors Advancement Initiative (CCAI) to address evolving challenges and leverage opportunities in corridor management and transportation technology. As critical transcontinental arteries, these corridors underpin national commerce and mobility, fostering regional connectivity and economic growth. An initial CCAI PFS business plan and scope of work will be cooperatively defined by study participants in coordination with current and planned projects and initiatives of the USDOT and FHWA, as well as those of TRB, AASHTO, ITS America, the Institute of Transportation Engineers, 5GAA, SAE, and others.

OBJECTIVES:
The CCAI aims to modernize corridor operations, enhance safety, and optimize economic efficiency by aligning efforts across state, federal, and private sectors. Objectives include developing and implementing open data standards for Work Zone Data Exchange (WZDx), Truck Parking Information Monitoring Systems (TPIMS), and national interoperability of communication data feeds to enable seamless communication across jurisdictions. Additionally, the initiative seeks to prepare the corridor for connected and automated vehicle (CAV) technologies by supporting data interoperability between states, agencies, emergency services, industry partners and the traveling public.

PARTNERS:
IADOT, OK, TX

OKLAHOMA INVOLVEMENT:
Oklahoma provides data input for the studies; participate in quarterly meetings via conference call; attend annual meetings.

Study Period	2026	2027	2028	2029	2030
State Contribution ($)	50,000	50,000	50,000	50,000	50,000

ESTIMATED COMPLETION DATE: September 2030

POINTS OF CONTACT:
Lead: Khyle Clute, khyle.clute@iowadot.us
ODOT: Tara Cullman, TLCullum@odot.org