TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Texas Department of Transportation

INSTRUCTIONS:
Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* **TPF-5(508)**	**Transportation Pooled Fund Program - Report Period:** ☐ Quarter 1 (January 1 – March 31) ☐ Quarter 2 (April 1 – June 30) ☑ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)	
Project Title: Concrete Bridge Engineering Institute (CBEI)		
Name of Project Manager(s): Joanne Steele, Chris Glancy	**Phone Number:** 512-416-4657	**E-Mail** joanne.steele@txdot.gov
Lead Agency Project ID: 9-1532	**Other Project ID (i.e., contract #):**	**Project Start Date:** 6/21/2023
Original Project End Date: 5/31/2027	**Current Project End Date:** 5/31/2027	**Number of Extensions:** 0

Project schedule status:

☑ On schedule ☐ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
$2,917,900.00	$195,658.51	7.8%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$ 175,890.33 (6.0% of budget)	$175,890.33	7.0%

Project Description:

The Concrete Bridge Engineering Institute (CBEI) is the center of concrete bridge related research, education, and training at the University of Texas at Austin in the Cockrell School of Engineering. CBEI's mission is to serve the concrete bridge community and profession on the most pressing issues encountered in concrete bridges across the nation.
The objective of this pooled fund is for CBEI to become a national resource for innovative workforce development programs and implementation of new technologies in the field of concrete bridges. CBEI will work with bridge stakeholders (primarily state and federal transportation agencies) and seek input from industry groups representing the concrete bridge community to develop pioneering, practical, and effective programs that will have national impact with the goal of addressing issues encountered in concrete bridges and implementing plans to work toward ensuring resiliency expectations for concrete bridges. Three specific needs have been identified to be addressed by the pooled fund. There will be a curriculum developed for each of the three initial components, all of which will include both classroom and hands-on training.
• Deck Construction Inspection Program to meet the need of ensuring proper initial construction of concrete bridge decks utilizing full-scale hands-on components. Bridge deck construction techniques utilizing precast deck panels and associated technologies will be included in this program. The Deck Construction Inspection Program will look to implement the information in the upcoming FHWA document State-of-the-Practice Report for Partial Depth Precast Deck Panels and building in problems alongside the correct installation into the full-scale bridge components.
• Concrete Materials Program for Bridges to provide guidance on the proper selection and use of constituent materials to improve the service life of concrete bridges, sustainability of concrete construction, and provide hands-on examples of what happens when these are not considered.
• Post-tensioning (PT) Laboratory (aka PT Academy) to provide hands-on training for field installers and inspectors as well as test and verify promising post-tensioning technologies.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Task 1 Project Management: Quarterly Progress Report 1 was submitted. Contract Amendment for FY2023/FY2024 was executed.
Task 2 Initial Planning and Conceptual Development: Worked on development of overall site plan and stations, schedule of key activities, and syllabus.
Task 3 Site Preparation: Development of conceptual site plan for CBEI. Started engaging contractors. Site preparation/moving materials out of the area.
Task 4 Infrastructure Buildout: Worked on development of draft drawings and detailed description for Bridge Deck Construction Inspection specimen. Advance detailed description of Concrete Materials for Bridges Course specimens.
Task 5 Course Development: Continued work on course outline of Concrete Materials for Bridges training program and background information on Bridge Deck Construction Inspection.
Task 7 Concrete Solutions Center: Initial work on Concrete Solutions Center setup.

Anticipated work next quarter:

Formation of task groups focused on each of the three areas: Concrete Materials for Bridges, Bridge Deck Construction Inspection, and PT Laboratory/Academy.

Task 1 Project Management: Facilitate efforts of the project team. Provide quarterly report. Schedule task group meetings. Provide monthly reports.
Task 2 Initial Planning and Conceptual Development: Finalize conceptual plan.
Task 3 Site Preparation: Continue draft of conceptual plan for the site. Further site preparation construction activities - Establish boring logs and work on design of site support components (slabs, drilled shafts, access).
Task 4 Infrastructure Buildout: Continue work on drawings and description of the bridge deck main specimen. Engage task group on feedback for the specimen. Finalize draft for specimens and infrastructure of the Concrete Materials for Bridges program.
Task 5 Course Development: Continue work and planning for course on Concrete Materials for Bridges training program. Engage task group on syllabus. Work on draft syllabus for Bridge Deck Construction Inspection course.
Task 6 Level 1 Workshops: No work anticipated with this task.
Task 7 Concrete Solutions Center Setup: Continue work on development of draft for the overall program.
Task 8 Concrete Solutions Center: Facilitate meetings and responses as needs arise.

Significant Results:

Work has commenced on six of the eight tasks.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

Contract ammendment to move funds from FY2023 budget to FY2024 Budget. Moved $40,496.25 from the first year to second year. Contract end date and milestones otherwise remain unchanged.
An upcoming contract amendment will be created to add the states which have joined since the original contract.

The following notes are updates regarding funding:
Tennessee Department of Transportation is the most recent state to join the TPF.
FHWA reduced its FY23 commitment by $237,900 from $587,900 to $350,000.
Total commitments to the study are currently $3,000,000.
To date, TxDOT has received $807,900 in funding including FY23 transfers from other states, FHWA's initial FY23 allocation, and Texas' FY23 contribution. TxDOT will follow up regarding the outstanding FY23 contributions as needed.
The federal transfer system (FMIS) has re-opened for FY24. TxDOT is ready to receive transfers of FY24 commitments from other states and FHWA.

Potential Implementation:

Nothing identified at this time.