**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Lead Agency: **----** **Utah 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.*

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| **Transportation Pooled Fund Program Project #*****TPF-5(257)*** | **Transportation Pooled Fund Program - Report Period:** Quarter 1 (January 1 – March 31) X **Quarter 2 (April 1 – June 30, 2014)**\_ Quarter 3 (July 1 – September 30)\_ Quarter 4 (October 1 – December 31) |
| Project Title: Evaluation of Spliced Sleeve Connections for Precast RC Bridge Piers |
| **Name of Project Manager(s):****Jason Richins** | **Phone Number:** **801-360-4985** | **E-Mail****jtrichins@utah.gov** |
| **Lead Agency Project ID:****5H06604H, UT11.502** | **Other Project ID (i.e., contract #):****12-8775** | **Project Start Date:****3/23/2012** |
| **Original Project End Date:****3/30/2013** | **Current Project End Date:****12/31/2014** | **Number of Extensions:****3** |

Project schedule status:

 \_ On schedule X On revised schedule \_ Ahead of schedule \_ Behind schedule

Overall Project Statistics:

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|  **Total Project Budget** |  **Total Cost to Date for Project** |  **Percentage of Work**  **Completed to Date** |
| **$175,848** | **$162,000** | **92%** |

***Quarterly*** Project Statistics:

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|  **Total Project Expenses**  **and Percentage This Quarter** |  **Total Amount of Funds**  **Expended This Quarter** |  **Total Percentage of**  **Time Used to Date** |
| $5,000 / 3% | $5,000 | 84% |

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| **Project Description**: Sleeved connections are being considered as one of the methods for connecting precast concrete bridge elements. The purpose of this project is to perform experiments to evaluate the performance of a sleeved connection between a reinforced concrete bridge column and a bridge footing (Type I) or a reinforced concrete bridge column and a bridge pier cap (Type II) in a seismic area. This information is very valuable for construction of bridges using Accelerated Bridge Construction in areas with high seismic activity. |

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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):****Project Progress:** This quarter the project draft report was completed and presented to the Technical AdvisoryCommittee (TAC). The draft report was received positively. At this time, the comments of the TAC are being assembled; once the comments of the TAC are finalized, the draft report will be amended and the final report will be submitted. **Project Status:** The draft report has been presented to the TAC. The percentage completion for each task is as follows: *Task 1: Review Existing Experimental Results for Sleeved Connections:* 100% Complete *Task 2: Build Precast Columns, Footings and Cap Beams for Tests:* 100% Complete *Task 3: Test Column to Footing Connections (Type I):*  100% Complete *Task 4: Test Column to Cap Beam Connections (Type II):* 100% Complete *Task 5: Test Column to Footing Monolithic Cast-In-Place Connection*  *and Column to Cap Beam Monolithic Cast-In-Place Connection:* 100% Complete |
| **Anticipated work next quarter**: It is anticipated that in the next quarter the final report will be written. It is also anticipated that the deliverables of the project will be completed.  |

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| **Significant Results:** The six spliced and two monolithic connections have been tested, the experimental work is complete. The final comparisons between the monolithic and spliced specimens are also complete. The final recommendations forABC construction are currently being assembled. |
| **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).**The project is currently on time and it is anticipated that it will be completed by the end date.  |

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| **Potential Implementation:** It is anticipated the Utah DOT will implement the findings of this research once it is completed for AcceleratedBridge Construction (ABC). It is likely that the New York State Department of Transportation and the Texas Department of Transportation will be able to implement them as well.  |