

TR202207 “Pile Set-up and Restrike Procedures”

Questions and Answers

1. I was curious of the status of the data produced by previous research completed by Dr. Luna for MoDOT. I would also like to ask if we could receive a copy of the data and/or database related to the previous pile restrike research prepared by the Missouri University of Science and Technology. We understand that there was a MoDOT sponsored pile study relative to LRFD practice that was published in 2014. Would MoDOT please make this database and related information available to prospective proposers by December 15, 2021 in order to be able to formulate proposal considerations? (Two questions were received asking for the same information.)

A. *Information and data from the previous pile restrike research can be found on MoDOT’s website at <https://www.modot.org/evaluation-pile-load-tests-use-missouri-lrfd-guidelines>. The DFLTD application referenced on the website requires special software to run the files and we can provide that information to the selected team, but we cannot guarantee it can run on current computer systems. The PILOT database is information gathered from Iowa. We can work with the selected team to get permission from the owners of that data for use in the project if desired.*

2. Would MoDOT please provide detailed evaluation criteria and the associated scoring percentage that applies to each criterion for proposals submitted in response to this RFP? The RFP states that proposal formatting is only one of the evaluation criteria and would be subject to a potential 10 point deduction from a 100 point total if the submittal instructions are not followed, so would MoDOT please clarify?

A. *Evaluation sheet is listed.*

Expected development and outline of research problem is understood and expressed clearly in the response. The language of the narrative should be straightforward and limited to facts, solutions to problems, and plans of action.	25
The proposed approach to the research problem appears feasible.	15
The proposal results in a sense of confidence that the Offeror could complete the task.	25

An overall qualifications review provides the sense that the Offeror possesses the necessary experience, reliability and organizational expertise and personnel.	20
MoDOT has experienced acceptable previous performance from the Offeror's personnel and/or organization	10
Additional Value Provided	5
Total Points	100
Correct proposal submission is one of the evaluation criteria. If submission instructions are not followed, the Offeror risks an automatic 10 point deduction (out of 100 total points) when points are awarded during the Proposal Evaluation Process.	-xx

3. Would MoDOT please provide potential proposers by December 15, 2021 with access to the electronic data for all PDA tests, WEAP analysis, bridge plans and geotechnical studies for pile supported bridge construction projects that MoDOT has been involved with during the past 14 or more years? Would MoDOT agree that such information would provide the proposers with the opportunity to better understand the extent and quality of such information so as to potentially better formulate their proposal considerations prior to the submission deadline of January 7, 2022?
 - A. *Some of the data from past projects that we were able to gather to date is viewable [here](#), but we will work with the winning proposer to gather further data as requested. The data we gather later may still be limited.*

4. Would MoDOT intend to include as an objective within the scope of the project requirements an assessment of time-dependent losses of pile capacity following initial drive that has occurred at some MoDOT projects in the past and the identification of the circumstances that might produce such loss in pile capacity?
 - A. *We are requesting procedures to be created if the capacity gain was not encountered at final restrike.*

5. Would MoDOT please identify the individuals and affiliated companies, agencies and stakeholders who will be on the selection committee and will be involved with the evaluation of the proposals for this RFP?
 - A. *The selection committee will consist of MoDOT personnel from the Construction/Materials Division and Bridge Division.*

6. Does MoDOT intend to include within the scope of the project requirements an assessment of instances where piling are driven to rock or other hard layers such that there would be a significant end-bearing component to axial pile capacity relative to assessing time-dependent pile capacity changes?
 - A. *No.*

7. Does MoDOT intend to include within the scope of the project requirements an assessment of time-dependent pile capacities changes relative to different pile end conditions?
 - A. *The objective of this research is to provide MoDOT with a better understanding of pile set-up in Missouri soils and provide the department with a pile restrike procedure for different types of piles. The department would like a more detailed pile restrike and set-up procedure that also considers contractor's tight timelines. A typical 7 or 14 day restrike procedure is not advantageous to a contractor's schedule.*

8. Does MoDOT intend to limit the scope of the project to an assessment of driven steel pile only?
 - A. *No, as stated in the objectives, "A procedure that incorporates different pile types will allow greater design flexibility."
The background section of the RFP states "The objective of this research is to provide MoDOT with a better understanding of pile set-up in Missouri soils and provide the department with a pile restrike procedure for different types of piles."*

9. Does MoDOT intend to include within the scope of the project an assessment of the potential for pile damage under various circumstances encountered during construction of MoDOT bridge projects?
 - A. *Yes, we need to consider pile damage in the pile restrike procedure.*

10. Does MoDOT intend to include within the scope of the project an assessment as to how WEAP analysis is to be incorporated into the pile testing requirements since the RFP only mentions addressing PDA/CAPWAP testing requirements?
- A. If the researcher feels WEAP is a necessary component to the restrike procedure, then it should be included. WEAP was not mentioned as it is typically performed prior to pile driving.*
11. Does MoDOT intend to limit the scope of the project to an of assessment pile installation conditions that have occurred for Missouri bridge projects only?
- A. The objective of this research is to provide MoDOT with a better understanding of pile set-up in Missouri soils and provide the department with a pile restrike procedure for different types of piles.*
12. Does MoDOT intend to include within the scope of the project an assessment of how other considerations for pile installation such as minimum depth of pile embedment and minimum installation depths for galvanized portions of the pile are to be related to time-dependent effects on axial capacity?
- A. The RFP requests procedures when capacity gain is not encountered.*
13. What opportunities will MoDOT offer to outside parties to provide review comments and recommendations about the work products generated for this study prior to MoDOT's implementation of any changes in pile installation and testing requirements for future projects?
- A. Before making any large changes to specifications we normally work with industry working groups. The department would consider that option before making any specification changes for pile installation and testing.*