SPR PROJECT DESCRIPTION

PROJECT NUMBER:
02403

PROJECT TITLE:
Development of a Statewide Bridge Database and Data Retrieval System

PRINCIPAL INVESTIGATORS:
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PROJECT OBJECTIVE:
The objective of this research project is to develop an electronic data storage and retrieval system for bridge data for the Alabama Department of Transportation (ALDOT).

PROJECT ABSTRACT:
ALDOT has amassed significant quantities of data related to bridges constructed within the state. These include subsurface drilling records and geologic information, construction records, and design drawings. Collectively, this information could be used beneficially in developing projects that are planned for a bridge. The difficulty in using this historical information is that most of these records are available only in paper copies that are archived at remote locations. In such a format, it is very difficult for project personnel to access and to utilize this valuable information. This project will investigate whether an electronic system can be devised to store and retrieve the information.

PROJECT TASK DESCRIPTIONS:
1) Kick off the project in a meeting with ALDOT personnel, 2) compile site-specific information, 3) design database, data entry and data retrieval, 4) assess geotechnical database, and 5) go-forward assessment.

MILESTONES AND DATES:
Feb 14, 2002: Start project – schedule task 1
Mar 1 – Jun 30: Task 2
Apr 1 - Sep: Task 3
Jul 1 – Sep 30: Task 4
Sep 1 – Oct 30: Task 5
Nov 14, 2002: End project – submit project final report to ALDOT and UTCA

TOTAL BUDGET:
One-year project: Alabama DOT-SPR funds $67,658; total budget $67,658.
STUDENT INVOLVEMENT:
No students will be involved with this project.

RELATIONSHIP TO OTHER RESEARCH PROJECTS:
This project is not directly related to any other UTCA project, but it does support other work done in bridge management. This effort directly supports the safety component of UTCA’s theme by providing data that can be used in bridge safety analyses.

TECHNOLOGY TRANSFER ACTIVITIES:
No direct technology transfer will result from this project.

POTENTIAL BENEFITS OF THE PROJECT:
The benefits of this project will be indirect, in that they will improve the extent and type of data available to bridge planners, designers, and maintainers.

TRB KEYWORDS:
Bridge management, bridge data, foundation data, information technology.