PROJECT NUMBER: 03417

PROJECT TITLE: GASB 34 Compliance – Road Condition Rating

CO-PRINCIPAL INVESTIGATORS:
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PROJECT OBJECTIVE:
This project will develop a major component for the comprehensive asset management system of Alabama Department of Transportation. It will involve the roadway maintenance management system (called Hydra).

PROJECT ABSTRACT:
This project is one of a series being conducted to design, deploy and install ALDOT’s new asset management system. That system will be compliant with GASB 34 and will provide comprehensive information for management decisions. It will be based upon updated, efficient data collection, transformation and application practices.

This project concentrates upon roadway conditions and maintenance. It will deliver a system that describes the state’s network or routes, assigns them to appropriate ALDOT units and political divisions; updates maintenance and rehabilitation work on each unit, stores key data items, forecasts future conditions and develops management reports.

PROJECT TASK DESCRIPTIONS:
Task 1 – Refine and deploy deliverables from Phase II (UTCA project 02411)
Task 2 – Develop and deploy data validation support overlay structure details
Task 3 – Modify database and application to support overlay structure details
Task 4 – Refine and deploy report generation and historical querying capabilities
Task 5 – Verify the process and calculation of 2003 GASB 34 condition ratings
Task 6 – Provide effective utilization of Hydra system
Task 7 – Modify database structures
Task 8 – Document process, results and future work

MILESTONES AND DATES:
Task 1 – month 7.5
Task 2 – month 11
Task 3 – month 11
Task 4 – month 13
Task 5 – month 7
Task 6 – month 13.5
Task 7 – month 15
Task 8 – month 15

FUNDING AGENCY:
This is a 15-month project; ALDOT, State Planning and Research funds $124,564

STUDENT INVOLVEMENT:
This project will engage two graduate students and multiple undergraduates.

RELATIONSHIP TO OTHER RESEARCH PROJECTS:
This project is a continuation of a series of projects that will develop and deploy ALDOT’s asset management system:
-UTCA Project 01459: “ALDOT and GASB 34 – Phase I” (completed)
-UTCA Project 02114: “GIS-Resource Allocation Visualization” (completed)
-UTCA Project 02411: “GASB 34 Compliance – Phase II.” (completed)
-UTCA Project 03112: “Bridge Decay/Maintenance Forecasting” (underway)
-UTCA Project 03416: “Pavement Condition Management System” (awarded)
-UTCA Project 03417: “GASB 34 Compliance – Road Condition rating” (awarded)
-UTCA Project 03418: “GASB 34 Compliance – Bridge Condition Rating” (awarded)
-UTCA Project 03419: “Transportation Network Planning: Data, Analysis and Visualization” (awarded)

TRB KEYWORDS:
GASB 34, asset management, management information system, information resource information system, maintenance management system, Hydra systems,