Full Implementation and Documentation of ITD
NM04DSG-02

Design
State Fiscal Year 2007

Action Item:
This research will provide formal documentation of the implementation of the ITD process at the Pueblo of Acoma interchange. A procedure will be designed to gather data on stakeholders' perceptions of the design and construction of the Acoma interchange.

Product or Service to be Delivered:
A process for gathering data, which may include surveys, interviews or focus groups, will be designed for gathering data in this multicultural setting. The purpose is to involve customers in decisions related to design and construction of the project. A report will be prepared which details the results of the data gathering effort. A larger report or case study will detail the implementation of the entire ITD process as it unfolds from initial meetings of the ITD Team through project construction and operation.

Desired Results:
A primary product is increased awareness and involvement of the public in the design, construction, and operation processes. In addition, the formal documentation process will result in recommendations for improvement to the ITD methods for future ITD teams.

Tool to Measure Impact:
The number of persons who provide information to the research team will measure the effectiveness of the data collection methods. The impact of the formal documentation process will be measured by adoption of the ITD process for other projects within NMDOT, and by other State transportation agencies.

Standard for Success:
A higher level of public involvement will be experienced using ITD and the ITD data collection methods than for other comparable highway projects. The methodology will be applied to other NMDOT projects and the results accepted by the District, the Department, and the New Mexico Division of the FHWA.

Department Objectives:
Partnership with Tribal Governments
Efficient Use of Public Resources

Time Frame:
Research Start date: 1/1/2004
Research End date: 12/31/2006

Resource Allocation:
Fiscal Year 2007/Work Program
Fund Continuation

Fiscal Year 2006/Work Program
Fund Continuation

Fiscal Year 2005/Work Program
CO 4577 (UNM Anderson) $40,000
Responsibility:
Customer: Larry Maynard
PI: Jackie Hood
PM: Rais Rizvi
RAC: Steve Harris, Gary Shubert, Larry Maynard

Quarterly Progress:
Fiscal Year 2007

Third Quarter
Customer, Steve Lopez, Project Development Engineer, Central Region Design, distributed the final report to Acoma Pueblo and Cubero Land Grant. Project will remain open for another quarter to address any comments from Acoma Pueblo or Cubero Land Grant. Project will be completed and closed next quarter.

Second Quarter
Final research report completed.

First Quarter
Draft final research report titled “Enhancing Context Sensitive Solutions: An Application of Integrated Transportation Design to the I-40 Exit 102 Interchange Project” was received. This report discussed the context sensitive solutions (CSS) process, described a project using CSS to build an interchange, presented findings from a survey of state agencies concerning the CSS process, and presented recommendations for improvement of the CSS process. The report was sent to customer for review. Comments provided by the customer have been incorporated in this report. A formal presentation will be provided next quarter to the RAC; Customer; Acoma Pueblo; Cubero Land Grant; Bohannan Huston; and Marron and Associates.

Fiscal Year 2006

Fourth Quarter
Draft report on project received. Report sent back to PI as it did not meet the requirements of the Research Style Manual. PI will provide the draft report in the format requested in the next quarter.

Third Quarter
A survey of current practices in context sensitive solutions has been designed and will be distributed to all 50 states this quarter. An analysis of the benefits and drawbacks of the application of context sensitive design is started using the literature review data. Additional data procured from the survey will be added to this data to provide the practical applications of context sensitive solutions. A report will be written combining the survey results with the previous report on the Exit 102 Interchange Project. The report should be available by the end of the next quarter.

Second Quarter
An internet search of the application of context sensitive solutions to highway projects in other states was undertaken. This secondary research is being combined in a report with the previous literature review and with the primary research with the NMDOT that is emerging from the Exit 102 Interchange project to provide a comprehensive view of the application of context sensitive solutions. A survey of current practices is being designed to be sent to all 50 states to determine the benefits and drawbacks of the application of context sensitive design to highway projects. This information will be used to supplement the report on application of context sensitive solutions with the Exit 102 project. This additional information will guide the NMDOT in determining current best practices in context sensitive solutions. The survey data is expected to be collected in the next quarter with the report available by the end of the fiscal year.

First Quarter
The documentation of the case application of ITD continued with additional meetings with the Stakeholder Group and the Technical Task Force. The latter is composed of employees from NMDOT and BHI, representatives from the Pueblo of Acoma, the Cubero Land Grant, and others, in August and September. The Discussion with other researchers on the distinction of ITD and context sensitive solutions continues. A draft report on the integrated transportation design process and how it can aid context sensitive solution is nearly complete. A comparison and analysis of benefits and drawbacks to the process used with the Exit 102 Interchange will be a portion of this report.
Future directions include changing the name of this project from Full Implementation and Documentation of ITD to CSS Case Study - Exit 102 Interchange.

Fiscal Year 2005

Fourth Quarter
Data collection and documentation of context sensitive design continued. Draft report on the results of the survey and interpretation of the data was written and submitted for this quarter. This report is contained in a separate document.

Third Quarter
The documentation of the case application of ITD continued with additional meetings with the community members and the Technical Task Force, composed of employees from NMDOT and BHI, representatives from the Pueblo of Acoma, the Cubero Land Grant, and others, in February and March. Discussion with other researchers on the distinction of ITD and context sensitive solutions was undertaken.

Second Quarter
The data collected in the previous quarter was analyzed and a presentation was prepared. The presentation was given to the Exit 102 Technical Task Force on October 7, 2004. The Technical Task Force is composed of employees from NMDOT and BHI, representatives from the Pueblo of Acoma, the Cubero Land Grant, and others. The documentation of the process in comparison with context sensitive design continued with additional meetings with the community members and the Technical Task Force in November and December.

At the recently completed 2004 RQI (November 2004), the design table made the following recommendations:

- Apply on other projects and refine the process to enable use in a variety of contexts and projects.

First Quarter
During this quarter data was collected by six individuals hired from the local area to interview people about the proposed interchange. Interviews were carried out with 776 individuals who used the interchange, and included residents of Cubero Land Grant, residents of the Pueblo of Acoma, residents of the Pueblo of Laguna, tourists, semi-truck drivers, and so on. ITD was represented at every meeting of the Technical Task Force composed of employees from NMDOT and BHI, representatives from the Pueblo of Acoma, the Cubero Land Grant, and others. A presentation was given to the Task Force on October 7, 2004.

Fiscal Year 2004

Fourth Quarter
Approval was obtained from the Pueblo of Acoma and Cubero Land Grant for the ITD project on the Exit 102 Interchange. The name change for the interchange was requested by the stakeholders. Four meetings were held with stakeholders during this time period. An advertisement for interviewers was created with UNM human resources and the positions were advertised in the local papers and through flyers placed throughout the local communities. Over 20 individuals were interviewed, with six individuals for data collection. Interviews of candidates for data collection were carried out by Jackie Hood and Chris Nguyen (Hood’s graduate assistant) at the Cubero Community Center and the Sky City Casino Board Room. Interviewers were then trained on data collection at the Sky City Casino.

Third Quarter
A proposal for using ITD for the Acomita Interchange was presented to members of the Pueblo of Acoma, Cubero Land Grant and NMDOT employees at a large group meeting in January. Through February and March there were four additional meetings along with a meeting with the project engineer, Steve Lopez. We are currently waiting for a decision from the Pueblo of Acoma and the Cubero Land Grant on whether they would like to use the ITD process in the design, construction and operation of the Acomita Interchange.

Last updated: January 5, 2007

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Objective:
The Department is committed to cost effective, quality transportation systems. This research will implement and document the ITD process for a specific highway project. The project is the Acoma Interchange at the Pueblo of Acoma.