

CTIP STUDY PROBLEM STATEMENT

Request for Funding

FY 2003

FHWA Strategic Goal Area: Mobility

Project Title: Portable Weight Monitoring (and Electronic Classification) of Vehicles on Indian Reservation Roads

Background: The overall condition of IRR is considered poor, and part of the poor condition can be associated with the loads that the roads carry. NPS roads typically do not have the high load conditions of IRR roads because of the lack of commercial traffic. FS roads did have high loads, but the amount of commercial traffic on FS roads has declined, especially in the Northwest. IRR roads continue to carry loaded farm to market types of traffic that impact the condition of the roads. The Northwest Regional Office of the BIA would like to have a method for monitoring truckloads on Indian Reservation Roads. Vehicle classification by some electronic system will be part of the proposal so that the types and weights of vehicles can be determined.

Objectives: The proposal is the use portable mechanical weigh in motion data collection systems to develop a report/database for a set of roads in the BIA Northwest Region. The benefits of this pilot weigh in motion assessment for the BIA NW Region include:

- Develops an existing survey of traffic loading on IRR
- Provides a benchmark for assessing IRR condition into the future
- Sets the stage for educating Tribal Nations on how vehicle loads can affect the condition of their roads.
- Gives the tribes a tool to use for developing load limits on their roads.

Status: This technology does not currently exist for the tribes. The FS has in the past done some portable weigh in motion and vehicle load enforcement.

Expected Products and Milestones by Fiscal Year: Report on pilot study results, recommendations for load limits, and the baseline data for calculating road structure needs.

Duration: Fiscal Year 2003

Estimated Cost by Fiscal Year: \$200,000 (Development of two sets of portable equipment that can be used at sites in the NW Region of the BIA for one to two week study periods of traffic weight and classification)

\$170,000 for equipment purchases

\$ 30,000 for BIA Staff to assist with installation, data collection, data reports, and training

Suggested Organization Method: The WFLHD Planner will coordinate with the Oregon and Washington Weigh Master Offices to get advice on the selection of appropriate equipment and organization to collect weight data. The NW Region of the BIA will be the lead for organizing, collecting and reporting on the pilot data collection process. The BIA will coordinate with the

selected tribes to provide training and data collection for the study period. The results will be documented by the BIA in a final report describing the organization, equipment, costs, analysis, and benefits.

Submitted:

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Funding Source: (Check one.)

9 Agency Fund

9 General Fund