**PBIC Bicycle and Pedestrian Transportation Short Series**

**Assignment: Assessing Level of Service**

**Due: X/XX/20XX**

**PURPOSE**

The purpose of this assignment is to become familiar with the calculation of level of service for bicycles.

**PROCESS**

Consider the current bicycle facility in a given county. Assuming the following information, please calculate the level of service.

* 5 ft shoulder
* 12 foot lane
* 30 MPH speed limit
* 2 lanes, undivided
* 1100 veh/hr
* Peak Hour factor=1
* 10% trucks
* 1 conflict/mi
* Surface condition=3 (default value for good condition)

Now consider the following changes:

A wider shoulder is built (4 feet wider, for a total of 9 ft shoulder). A road diet decreased the lanes to 1, and the flow to 600 veh/hr. The surface condition is now 5. Trucks further decreased to 5% of all traffic. Speed decreases to 25 mph. What is the new LOS?

**DELIVERABLE**

**GRADING**

This write-up will represent **XX%** of the semester grade