



## UC DAVIS TRANSIT SIGNAL PRIORITY STUDY

### PROJECT LOCATION

Davis, California

### CLIENT

Associated Students of the University  
of California at Davis  
10 South Hall, One Shields Avenue  
Davis, California 95616

### PROJECT MANAGER

Gordon Shaw

### DATE

2006

### REFERENCE

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Transit services are very important to the functionality and environmental quality of the University of California at Davis campus. The Unitrans service, operated through the campus student association, serves the campus as well as the surrounding Davis area with an intensive level of transit service. Faced with growth in traffic delays and proposals for additional development, the Associated Students of UC Davis retained LSC Transportation Consultants, Inc. to conduct a feasibility study for transit signal pre-emption at three key signalized intersections on the west side of the campus. Our work included the following:

- A review of existing transit signal pre-emption programs and the impacts of each on transit operations and traffic volumes
- An evaluation of existing Unitrans services, focusing on the number of bus trips and ridership carried through the study intersections
- An assessment of the existing traffic signals and signal pre-emption technology options
- Synchro/Simtraffic simulation of the signals under a variety of potential signal pre-emption strategies
- Cost estimates and implementation steps

The study resulted in the implementation of signal pre-emption at the three intersections in 2008.