

## #27, TROY INTELLIGENT TRANSPORTATION SYSTEM (ITS) PHASE 2

<b>LOCATION:</b> City of Troy <b>DESCRIPTION:</b> Replace 22 signals, one new signal, add ped control and countdown timers. Federal, Ferry and Sixth Streets area. <b>PROJECT TYPE:</b> ITS <b>COST:</b> \$ 2.31 M (total) <b>LIFE:</b> 10 yr <b>SPONSOR:</b> City of Troy <b>CURRENT CONDITION:</b> <b>FUNCTIONAL CLASS:</b> Varies between local and Principal Urban Arterials <b>AADT:</b> Varies between 1,500 and 19,000 <b>PRIORITY NETWORK(S):</b> Transit, Bike/Ped, ITS.	<table> <tr> <td><b>BENEFIT/COST RATIO</b></td><td><b>6.9</b></td></tr> <tr> <td>TOTAL BENEFITS (k\$/yr)</td><td>\$2,153</td></tr> <tr> <td>SAFETY</td><td>\$946</td></tr> <tr> <td>TRAVEL TIME</td><td>\$1,221</td></tr> <tr> <td>ENERGY/USER</td><td>-\$14</td></tr> <tr> <td>LIFE CYCLE VALUE</td><td>\$ 0</td></tr> <tr> <td>OTHER</td><td>\$ 0</td></tr> <tr> <td>ANNUALIZED COST (k\$/yr)</td><td>\$314</td></tr> </table>	<b>BENEFIT/COST RATIO</b>	<b>6.9</b>	TOTAL BENEFITS (k\$/yr)	\$2,153	SAFETY	\$946	TRAVEL TIME	\$1,221	ENERGY/USER	-\$14	LIFE CYCLE VALUE	\$ 0	OTHER	\$ 0	ANNUALIZED COST (k\$/yr)	\$314
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**CONGESTION RELIEF:** STEP model estimates that 166 excess person hours of delay per day would be reduced.

**AIR QUALITY BENEFIT:** VOC reductions of roughly 9 KG per day would be expected.

**REGIONAL SYSTEM LINKAGE:** Enhanced transit service and pedestrian safety with the installation of countdown timers.

**LAND USE COMPATIBILITY (PLANNED OR EXISTING):** Consistent with Troy's overall plan to stimulate downtown growth.

**COMMUNITY OR ECONOMIC DEVELOPMENT:** Would support Troy's revitalization efforts downtown.

**ENVIRONMENTAL ISSUES:** Low income and minority area.

**BUSINESS OR HOUSING DISLOCATIONS:** None anticipated.

**BICYCLING:** No direct benefits.

**WALKING:** Benefits from improved pedestrian controls and countdown timers.

**GOODS MOVEMENT:** Indirect benefits through improved traffic flow.

**TRANSIT USE:** Benefits through more reliable transit service.

**INTERMODAL TRANSFERS:** Not directly.

**SCREENING ISSUES:** None.

**OTHER CONSIDERATIONS:** CMAQ Eligible. If Congress Street is funded, this project would then be for only 14 signals.