

#40, TROY PHASE III ITS SIGNAL IMPROVEMENTS: CITY OF TROY

<p>LOCATION: Liberty St to Tyler St and 4th St to 3rd St DESCRIPTION: Replace traffic signal systems at 15 locations with modern controllers, pedestrian signals, ADA curb ramps, high visibility crosswalks, LED signal faces, wireless communication hardware, side street vehicle detection, transit/emergency vehicle pre-emption capability CATEGORY: ITS COST: \$2.68 M LIFE: ? SPONSOR: City of Troy CURRENT CONDITION: N/A FUNCTIONAL CLASS: 3rd and 4th both Principal Urban Arterials AADT: N/A ON PRIORITY NETWORK(S): Bike/Ped, ITS, Transit</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">BENEFIT/COST RATIO</td> <td style="text-align: right;">2.2</td> </tr> <tr> <td>TOTAL BENEFITS (\$k/yr)</td> <td style="text-align: right;">\$792</td> </tr> <tr> <td>SAFETY</td> <td style="text-align: right;">\$671</td> </tr> <tr> <td>TRAVEL TIME</td> <td style="text-align: right;">\$92</td> </tr> <tr> <td>OPERATING/ENERGY*</td> <td style="text-align: right;">\$0</td> </tr> <tr> <td>ENERGY/USER</td> <td style="text-align: right;">\$29</td> </tr> <tr> <td>LIFE CYCLE VALUE</td> <td style="text-align: right;">\$0</td> </tr> <tr> <td>OTHER</td> <td style="text-align: right;">\$0</td> </tr> <tr> <td>ANNUALIZED COST (\$k/yr)</td> <td style="text-align: right;">\$364</td> </tr> </table> <p style="font-size: small;">*includes gasoline usage and ownership costs</p>	BENEFIT/COST RATIO	2.2	TOTAL BENEFITS (\$k/yr)	\$792	SAFETY	\$671	TRAVEL TIME	\$92	OPERATING/ENERGY*	\$0	ENERGY/USER	\$29	LIFE CYCLE VALUE	\$0	OTHER	\$0	ANNUALIZED COST (\$k/yr)	\$364
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CONGESTION RELIEF: No measurable reduction in excess delay or VMT.
AIR QUALITY BENEFIT: Volatile organic compounds reduced by 16 KG/year. NOx reduction could not be cacluated.
ENVIRONMENTAL MITIGATION: Within 0.25 miles of a water feature, an aquifer, 100 year Flood Plain, several National Register Historic Districts and Class 1 & 2 Soils
REGIONAL SYSTEM LINKAGE:

LAND USE COMPATIBILITY (PLANNED OR EXISTING): N/A
CONTRIBUTION TO COMMUNITY OR ECONOMIC DEVELOPMENT: Will support redevelopment efforts in downtown Troy.
ENVIRONMENTAL JUSTICE: Low Income and Minority
BUSINESS OR HOUSING DISLOCATIONS: N/A

<p>FACILITATES: BICYCLING – Not directly WALKING – Y: ADA curbs, crosswalks, ped signals</p>	<p>TRANSIT USE – Y: ped improvements GOODS MOVEMENT – Not directly INTERMODAL TRANSFERS – Y: transit/ped</p>
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SPONSOR PRIORITY: High #2
SCREENING ISSUES: None
OTHER CONSIDERATIONS: None