

PART A - CONTACT INFORMATION	
1. Sponsoring Agency	City of Surprise
2. Contact Name	Albert Garcia
3. Phone	623-222-1733
4. E-Mail Address	albert.garcia@surpriseaz.gov
5. Mailing Address	16000 North Civic Center Plaza Surprise, AZ 85374
(OPTIONAL)	
<a href="#">GIS Submittal Instructions</a>	

**PART B - CMAQ Score Data**

This part of the form is used to gather project related data to calculate an CMAQ Score and also gather the minimum data needed for a listing of the project in the Transportation Improvement Program

**Federal Funding Eligibility**

All ITS projects to be funded with Federal CMAQ funds must be located within a nonattainment area. Please use the map provided in the tab named "Map" to verify that the project is located in a nonattainment area.

**1. Traffic Estimate and Roadway Characteristics**

a. Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:

b. Please Describe how the ADT was estimated:

c. When was the ADT estimate developed:

d. Name of the Roadway Section Used for the ADT Estimate:

e. Starting Limit of the Roadway Section:

f. Ending Limit of the Roadway Section:

g. Length (Miles)

h. Total Number of Through Lanes on the Roadway Section:

i. Federal Functional Classification of the Roadway Section:   
[Link to Functional Classification Update at the MAG Website](#)

**2. Improvements in Traffic Management & Operations.**

a. Enter the pre-improvement (current) avg corridor traffic speed:

b. In the Table Check the Box in The Row That Best Describes the Project (Check Only One Box):

	Before (Pre-Improvement) Condition	After (Post Improvement) Condition	Expected Increase In Speed
	Interconnected, pre-timed signals with old timing plan	Advanced computer-based control	17.5 percent
	Non-interconnected signals with traffic-actuated controllers	Advanced computer-based control	16.0 percent
	Interconnected, pre-timed signals with actively managed timing	Advanced computer-based control	8.0 percent
X	Interconnected, pre-timed signals with various forms of master control and various qualities of timing plans	Optimization of signal timing plans. No change in hardware	12.0 percent
	Non-interconnected, pre-timed signals with old timing plan	Optimization of Signal Timing Plans	7.5 percent

NOTE: All ITS projects MUST involve eligible infrastructure improvements.

**3. Other Improvements. Check all that apply:**

Traffic signal system improvements at a single agency

**PART B - CMAQ Score Data**

- Traffic signal system improvements that apply to more than one agency
- Includes improvements to coordination between arterial and freeway traffic operations
- Project conforms to local land use plans
- Adds features to traffic signals that would better accommodate seniors at pedestrian crossings

**4. Traffic Flow Improvement Due to Project (Not required for Traffic Mgmt & Operations Improvements)**

- a. Enter the pre-improvement (current) average traffic speed of the corridor:
- b. Enter the post-improvement (current) average traffic speed of the corridor:

**PART C1 - ITS Project Information**

Please enter information **ONLY** in highlighted cells  
 Links to various websites are provided for additional information and help  
 The worksheet titled "Part C Example" shows an example on how to enter information

Local ITS Plans ▼

**A. Project Title & Sponsor**

Lead Agency	City of Surprise
Other Partnering Agencies	N/A
Project Title	ITS Plan
Project Category	Local ITS Plans

**B. Project Goals & Objectives**

**Project Goals:**  
 Develop a planning document to serve as a tool for ITS planning, deployment and integration of ITS for a 10-year timeframe.

**Project Objectives:**  
 Provide guidance on long term planning for ITS and how to best utilize the existing and future infrastructure and systems to improve the City's operations. The planning document objectives will also focus on improving the operational performance and maintainability of existing and future ITS infrastructure.

**C. Project Information**

**Project Location Description - a PDF file of a map must be submitted to MAG as an attachment:**  
 The project is a city wide planning/implementation document within the City of Surprise.

**Scope of the Project:**  
 The project includes developing a planning document for ITS planning, deployment, and integration. The document will investigate mobility support, senior-living support, liveable/walkable/golf cart accessible communities. A communications section will focus on addressing issues of technology compatibility, upgrades to legacy equipment, and the integration of existing technology with new equipment and deployments within the City.

**PART C1 - ITS Project Information**

**D. Identify Project Components in MAG Regional ITS Architecture**

Service Area	Addressed in this Project (Yes or No)	<a href="http://www.azmag.gov/ITS/">Applicable ITS Service Packages http://www.azmag.gov/ITS/</a>
1. Traffic Management		
2. Public Transportation		
3. Communications		
4. Traveler Information		
5. Archived Data Mgmt		
6. ITS for Safety		
7. ITS Planning	Yes	ATMS01, ATMS03
8. Fwy-Arterial Operations		

NOTE: Insert the relevant Architecture Flow Diagrams in worksheet: Part C-ITSArchFlowDiags

**E. Program Year Preference (enter FY2018 oor FY2019)**

Preferred program FY

**F. Project Budget**

	Federal Cost	Local Match (min 5.7%)	Total Cost
Amount	\$141,450.00	\$8,550.00	\$150,000.00
Cost percentage	94.3%	5.7%	

**G. System Maintenance and Operations**

Current staff resources available to support ITS operations at the local agency (in FTEs)	4
Additional staff resources required for fully utilizing features added by project (in FTEs)	0
Agency's estimated current annual ITS operations & maintenance (O&M) budget	\$140,000
Estimated additional annual O & M funds required for features added by this project	\$0
Estimated DATE from when required additional local O&M funds will be available	N/A

**PART C1 - ITS Project Information**

**Other comments:**

[Empty comment box]

**H. Systems Engineering Analysis Requirement**

**Commitment to address the federal requirement for Systems Engineering Analysis:**

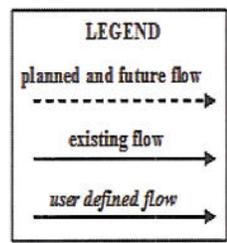
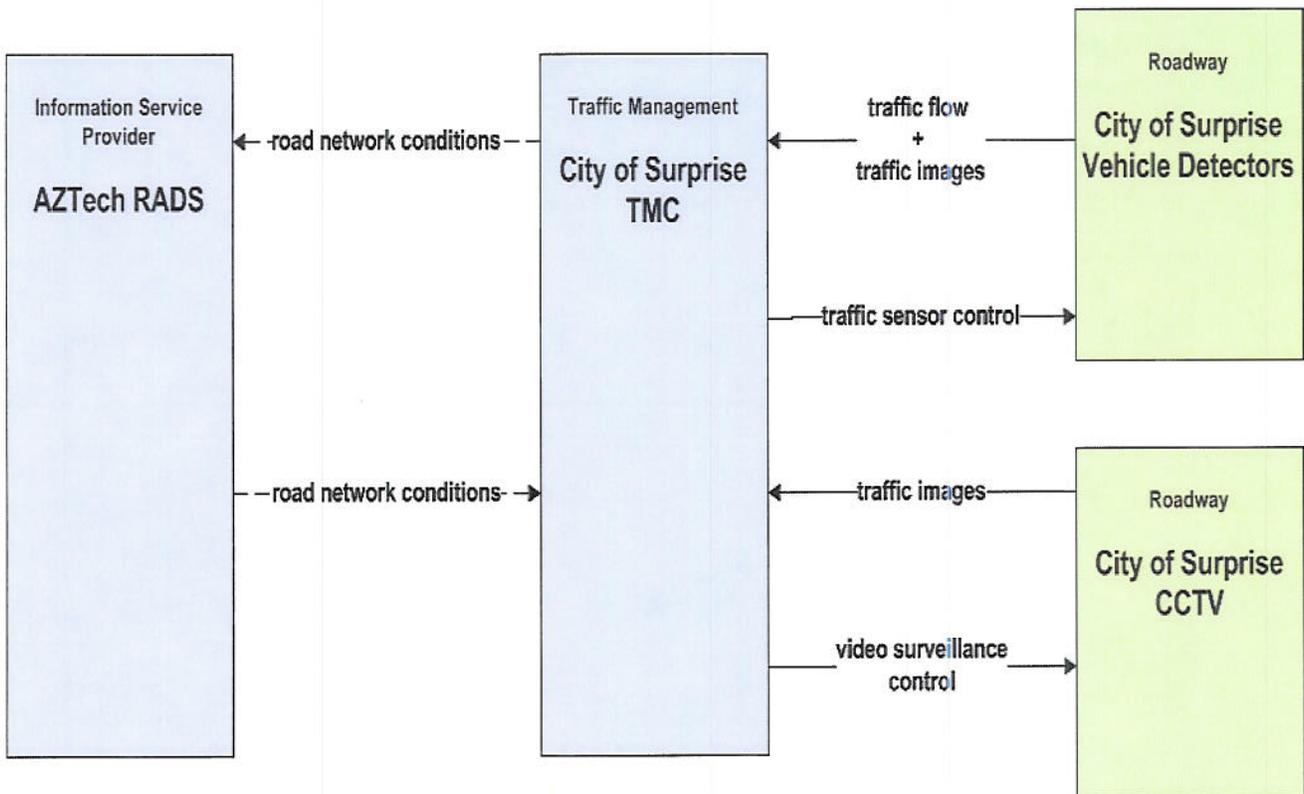
Agency's intent to follow the process described in the 'V' diagram during the project development process

The project sponsor, City of Surprise intends to incorporate the Systems Engineering Analysis in the scope of work for the project, following guidance on the ADOT's System Engineering Checklist provided at:  
[http://azmag.gov/Documents/ITS\\_2010-11-22\\_ITS-Systems-Engineering-and-Architecture-Compliance-Checklist.pdf](http://azmag.gov/Documents/ITS_2010-11-22_ITS-Systems-Engineering-and-Architecture-Compliance-Checklist.pdf)

**PART C2 - ITS Architecture Flow Diagrams**

Service Packages addressed by the proposed ITS project. This is to ensure that the project complies with the Regional ITS Architecture and meets a federal requirement for all federaly funded ITS projects.

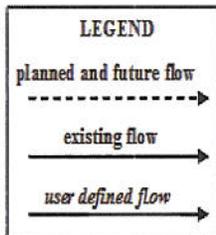
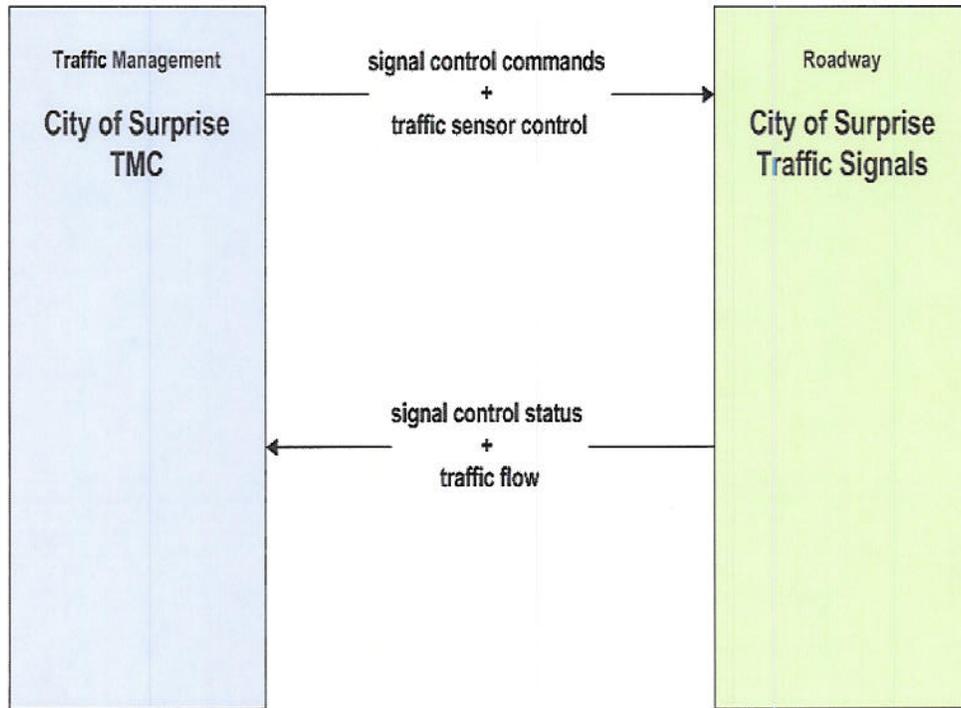
**ATMS01 - Network Surveillance  
City of Surprise**



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**PART C2 - ITS Architecture Flow Diagrams**

**ATMS03 - Traffic Signal Control  
City of Surprise**





PART D1 - Detailed Cost Estimate							
						\$0	Yes
						\$0	Yes
<b>SUBTOTAL - CONSTRUCTION</b>						<b>\$0</b>	<b>\$0</b>



PART D1 - Detailed Cost Estimate						
Item Description	Unit	Quant.	Unit Prices	Total	Eligible for CMAQ?	
CONTRACTOR MOBILIZATION	LS	1		\$0.00	Yes	
TRAFFIC CONTROL	LS	1		\$0.00	Yes	
CONSTRUCTION SURVEY & LAYOUT	LS	1		\$0.00	Yes	
CONSTRUCTION CONTINGENCIES	LS	1		\$0.00	Yes	
CONSTRUCTION ADMINISTRATION	LS	1		\$0.00	Yes	
<b>SUBTOTAL – MOBILIZATION &amp; ADMINISTRATION COSTS</b>				\$ -	\$0	
<b>TOTAL CONSTRUCTION OR IMPLEMENTATION COST</b>				\$ 150,000	\$ 150,000	

PART D1 - Detailed Cost Estimate					
<b>D. ADOT Fee for PE Reviews and Staff Charges</b>	LS	1	\$15,000	\$15,000	No
<b>TOTAL ADOT Fee COST</b>				\$15,000	\$0
<b>E. TOTAL PROJECT COST</b>				\$165,000	\$150,000
<b>F. SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS</b>					
TOTAL COST FOR PROJECT CONSTRUCTION/IMPLEMENTATION				\$165,000	
TOTAL COST FOR PROJECT ELIGIBLE FOR FEDERAL REIMBURSEMENT				\$150,000	
TOTAL FEDERAL FUNDS @ 94.3% (.943 x Total Eligible Cost shown highlighted above)				\$141,450	
LOCAL AGENCY MATCHING FUNDS (.057 x Total Cost shown highlighted above)				\$8,550	
LOCAL AGENCY FUNDS <u>NOT</u> ELIGIBLE FOR FEDERAL REIMBURSEMENT				\$15,000	

**PART D2 - TOTAL PROJECT BUDGET AND TIP PROGRAMMING**  
 (All Items are Required, Unless Identified as 'Optional')

Please provide a cost and programming estimate for the total project (e.g. the cost to complete all planned segment improvements). The design for the project should be programmed at least 1 year, preferably 2 years, prior to construction.

**Section 1 - Total Project Budget**

Cost Estimate for the Project from Part D1	Eligible Federal Cost	Local Cost Only	Total Cost	(Optional) Additional Notes
A. SCOPING (15% Preliminary Engineering Design) (Non-infrastructure projects: Only #2 applies).	\$ -	\$ -	\$ -	
B. FINAL PRELIMINARY ENGINEERING DESIGN - Stages II, III, IV and PS&E (Not applicable to non-infrastructure projects)	\$ -	\$ -	\$ -	
C. CONSTRUCTION OR IMPLEMENTATION				
1. CONSTRUCTION ELEMENTS	\$ -	\$ -	\$ -	
2. PROCUREMENT	\$ -	\$ -	\$ -	
3. OTHER ITEMS	\$ 150,000	\$ -	\$ 150,000	
4. MOBILIZATION AND ADMINISTRATION COSTS (Construction Only)	\$ -	\$ -	\$ -	
SUBTOTAL	\$ 150,000	\$ -	\$ 150,000	
D. ADOT Fee for PE Reviews and Staff Charges	\$ -	\$ -	\$ 15,000	
<b>Total Project Cost</b>	\$ 150,000	\$ -	\$ 165,000	

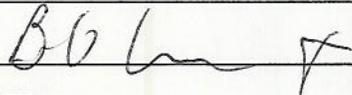
**Agency Programming**

Please describe the programming of the project in the agency's own CIP/TIP.

Requested MAG TIP Programming	Short Work Description (E.g. Construct HAWK)	Year (Choose One)	Local Cost	CMAQ Cost	Total Cost	Local Share
1. Scoping and PE (Optional)				\$ -	\$ -	
2. Other (Optional)				\$ -	\$ -	
3. Other (Optional)	ITS Plan	2018	\$ 8,550	\$ 141,450	\$ 150,000	6%
4. Construction or Implementation					\$ -	
<b>Totals</b>			\$ 8,550	\$ 141,450	\$ 150,000	6%

**PART E - SIGNATURE AND CHECKLIST**

As the jurisdiction's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature: 

Name: BOB WINGENROTH

Title: CITY MANAGER

Date: 9-18-15

**Checklist - OPTIONAL**

This check list is optional, but is included to facilitate applicant review and verification that all required fields in the form have been completed.

<b>PART A - Contacts</b>	
Contact Information, fields 1 – 5 are complete	Yes
<b>PART B - TIP Listing and CMAQ Score Data</b>	
1. Traffic Estimate and Roadway Characteristics - Fields a - i are completed	Yes
2. Improvements in Traffic Management & Operations	Yes
3. Other Improvements - As applicable all fields are completed	Yes
4. Traffic Flow Improvement Due to Project	Yes
<b>PART C1 - ITS Project Information</b>	
Section A is Complete	Yes
Section B is Complete	Yes
Section C is Complete & A PDF file of map will be attached to the submittal to MAG	Yes
Section D is Complete & All relevant Architecture Flow Diagrams have been inserted in the worksheet	Yes
Section E is Complete	Yes
Section F is Complete	Yes
Section G is Complete	Yes
Section H is Complete	Yes
<b>PART C2 - ITS Architecture Flow Diagrams have been inserted</b>	Yes
<b>PART D1 - Detailed Cost Estimate</b>	Yes

PART E - SIGNATURE AND CHECKLIST		
<b>PART D2 - TOTAL PROJECT BUDGET AND TIP PROGRAMMING</b>		Yes
<b>PART E - Signature &amp; Checklist</b>		
Form is signed		Yes
Name, title and date fields are completed.		Yes

# City of Surprise ITS Plan - Vicinity Map

