

PART A - CONTACT INFORMATION	
1. Sponsoring Agency	City of Peoria
2. Contact Name	Steve McKenzie
3. Phone	623-773--7994
4. E-Mail Address	steve.mckenzie@peoriaaz.gov
5. Mailing Address	9875 N 85th Ave, Peoria, AZ 85345
(OPTIONAL)	
GIS Submittal Instructions	

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
<input type="checkbox"/>	Interconnected, pre-timed signals with old timing plan	Advanced computer-based control	17.5 percent
<input type="checkbox"/>	Non-interconnected signals with traffic-actuated controllers	Advanced computer-based control	16.0 percent
<input checked="" type="checkbox"/>	Interconnected, pre-timed signals with actively managed timing	Advanced computer-based control	8.0 percent
<input type="checkbox"/>	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
<input type="checkbox"/>	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	
<input type="checkbox"/>	Traffic signal system improvements that apply to more than one agency
<input type="checkbox"/>	Includes improvements to coordination between arterial and freeway traffic operations
<input type="checkbox"/>	Project conforms to local land use plans
<input type="checkbox"/>	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:	<input type="text" value="N/A"/>
b. Enter the post-improvement (current) average traffic speed of the corridor:	<input type="text" value="N/A"/>

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

Arterial ITS

A. Project Title & Sponsor

Lead Agency	City of Peoria
Other Partnering Agencies	None
Project Title	Implementation of Flashing Yellow Arrows
Project Category	Arterial ITS

B. Project Goals & Objectives

Project Goals:
 To improve traffic safety, signal operations and reduce delays by implementing flashing yellow operations at protected/permissive left turn signals at 12 location in the City of Peoria.

Project Objectives:
 City of Peoria is planning to add four-section Flashing Yellow Arrows to 12 signalized intersections with protected/permissive left turn signals. This will improve traffic safety and signal efficiency.

C. Project Information

Project Location Description - a PDF file of a map must be submitted to MAG as an attachment:
 12 signalized intersections with protected/permissive left turn arrows in the City of Peoria.

Scope of the Project:
 Purchase and install 72 four-section flashing yellow arrow signal heads, new Peoria standard cabinet and controller at 12 signalized intersections in City of Peoria. The field installation and rewiring will be done by a contractor and the labor is counted as part of the project cost.

PART C1 - ITS Project Information	

PART C1 - ITS Project Information

D. Identify Project Components in MAG Regional ITS Architecture

Service Area	Addressed in this Project (Yes or No)	Applicable ITS Service Packages http://www.azmag.gov/ITS/
1. Traffic Management	Yes	ATMS03-04
2. Public Transportation	No	
3. Communications	No	
4. Traveler Information	No	
5. Archived Data Mgmt	No	
6. ITS for Safety	Yes	
7. ITS Planning	No	
8. Fwy-Arterial Operations	No	

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	\$358,340.00	\$21,660.00	\$380,000.00
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)	2
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	\$40,000
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:****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

City of Peoria intends to incorporate the Systems Engineering Analysis in the project development process. Details on the MAG Systems Engineering Checklist can be found at:

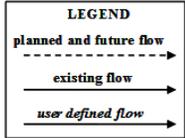
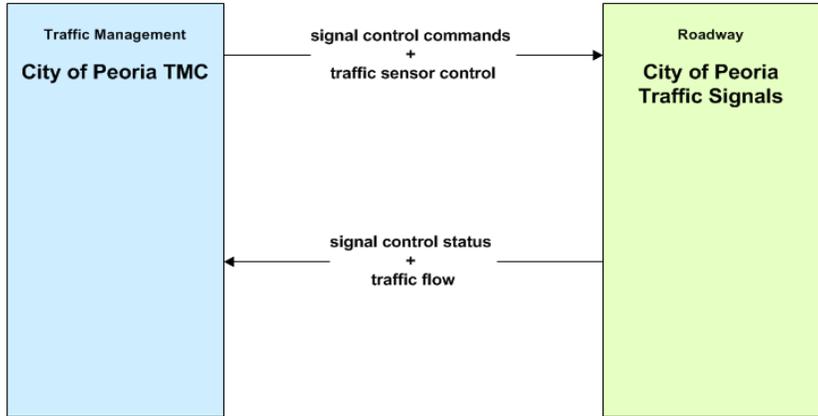
http://azmag.gov/Documents/ITS_2010-11-22_ITS-Systems-Engineering-and-Architecture-Compliance-Checklist.pdf

PART C2 - ITS Architecture Flow Diagrams

All relevant ITS Architecture Flow Diagrams MUST be inserted below for the relevant ITS 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 federally funded ITS projects.

Insert Architecture Flow Diagrams in the space below:

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



ADOT Review Fees for Certification Accepted Agencies/1

ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Environmental Planning	Environmental Planning	\$ 50	100	\$ 5,000
Urban Project Management	Project Manager	\$ 60	60	\$ 3,600
Urban Project Management	Project Coordinator	\$ 60	20	\$ 1,200
SUBTOTAL			180	\$ 9,800
STAFF GRAND TOTAL				\$ 10,000

ADOT Review Fees for Non Certification Accepted Agencies/1

ADOT SECTION	FUNCTION	RATE	HOURS	CHARGE/2
Contracts and Specs	Contracts and Specs	\$ 60	200	\$ 12,000
District	District	\$ 55	18	\$ 990
Engineering Consulting Section	Engineering Consulting Section	\$ 40	24	\$ 960
Environmental Planning	Environmental Planning	\$ 50	100	\$ 5,000
Materials	Geotech Design	\$ 50	15	\$ 750
Materials	Geotech Field Investigation	\$ 50	5	\$ 250
Right of Way	Plans	\$ 50	40	\$ 2,000
Roadway Group	Roadway Design	\$ 55	40	\$ 2,200
Roadway Group	Roadway Review	\$ 70	5	\$ 350
Traffic	Traffic Design	\$ 55	45	\$ 2,475
Urban Project Management	Project Manager	\$ 60	40	\$ 2,400
Urban Project Management	Project Coordinator	\$ 60	10	\$ 600
SUBTOTAL			542	\$ 29,975
STAFF GRAND TOTAL				\$ 30,000

Notes:

1. Based on material provided by ADOT in July, 2015. All functions, rates, hours and costs are as listed in the material provided by ADOT. Items
2. Charges to agencies will be based on work performed by ADOT. Costs accrued will vary depending on project characteristics and may be

PART D1 - Detailed Cost Estimate					
				\$0	Yes
				\$0	Yes
SUBTOTAL - CONSTRUCTION				\$0	\$0

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
SUBTOTAL – MOBILIZATION & ADMINISTRATION COSTS				\$ -	\$0
TOTAL CONSTRUCTION OR IMPLEMENTATION COST				\$ 368,400	\$ 368,400

PART D1 - Detailed Cost Estimate					
D. ADOT Fee for PE Reviews and Staff Charges	LS	1	\$15,000	\$15,000	No
TOTAL ADOT Fee COST				\$30,000	\$0
E. TOTAL PROJECT COST				\$398,400	\$368,400
F. SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS					
TOTAL COST FOR PROJECT CONSTRUCTION/IMPLEMENTATION					\$398,400
TOTAL COST FOR PROJECT ELIGIBLE FOR FEDERAL REIMBURSEMENT					\$368,400
TOTAL FEDERAL FUNDS @ 94.3% (.943 x Total Eligible Cost shown highlighted above)					\$347,401
LOCAL AGENCY MATCHING FUNDS (.057 x Total Cost shown highlighted above)					\$20,999
LOCAL AGENCY FUNDS <u>NOT</u> ELIGIBLE FOR FEDERAL REIMBURSEMENT					\$30,000

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	\$ 368,400	\$ -	\$ 368,400	
3. OTHER ITEMS	\$ -	\$ -	\$ -	
4. MOBILIZATION AND ADMINISTRATION COSTS (Construction Only)	\$ -	\$ -	\$ -	
SUBTOTAL	\$ 368,400	\$ -	\$ 368,400	
D. ADOT Fee for PE Reviews and Staff Charges	\$ -	\$ -	\$ 30,000	
Total Project Cost	\$ 368,400	\$ -	\$ 398,400	

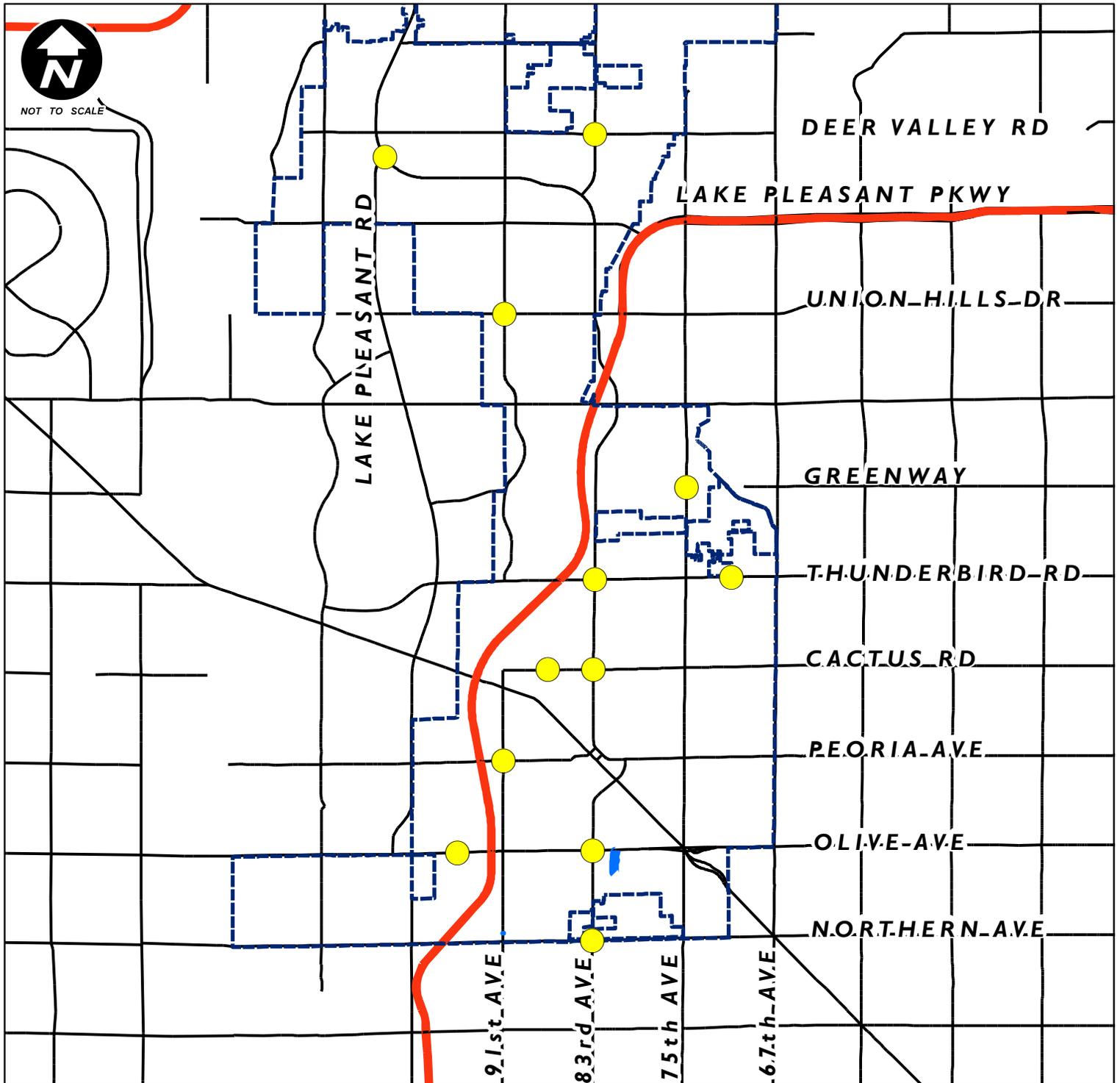
Agency Programming

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)				\$ -	\$ -	
4. Construction or Implementation	Procure Flashing Left Arrow Signal Heads	2018	\$ 20,999	\$ 347,401	\$ 368,400	6%
Totals			\$ 20,999	\$ 347,401	\$ 368,400	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:	Andrew Granger, P.E.
Title:	Engineering Director
Date:	9-17-15
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.	
PART A - Contacts	Complete?
Contact Information, fields 1 – 5 are complete	Yes
PART B - TIP Listing and CMAQ Score Data	Complete?
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
PART C1 - ITS Project Information	Complete?
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
PART C2 - ITS Architecture Flow Diagrams have been inserted	
PART D1 - Detailed Cost Estimate	Yes
PART D2 - TOTAL PROJECT BUDGET AND TIP PROGRAMMING	Yes

PART E - SIGNATURE AND CHECKLIST	
PART E - Signature & Checklist	Complete?
Form is signed	Yes
Name, title and date fields are completed.	Yes



LEGEND

- Proposed Intersections



NOTE
Map based on imprecise source
information, subject to change and
FOR GENERAL REFERENCE ONLY.