

## PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION

### CMAQ Funding Available for Federal Fiscal Year 2015, 206 and 2017

**General Instructions:**

This excel form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments (MAG) for Paving Unpaved Road Projects to be included in the FY2014-2018 MAG Transportation Improvement Program. Funding is available for Federal Fiscal Year (FFY) 2015, 2016 and 2017.

This application form includes: Part A - Contact and Project Description, Part B - Segment Description and Proposed Improvements, Part C - Total Project Budget and Schedule, Part D - Checklist and Signature Page, and Transmittal Instructions and Schedule. Each part is a separate tab of this excel file. Please complete Parts A - D. Alternative application forms are available upon request.

**Deadlines and Transmittal Instructions:**

Two copies of a printed, complete and signed application must be received in the MAG offices by **10:00 p.m. Wednesday, September 19, 2012**. And the application is to be submitted electronically. Detailed transmittal instructions are located in a separate tab in this excel sheet. Late applications will not be accepted.

If member agencies need additional information or have questions, they should contact Teri Kenned or Stephen Tate (602) 254-6300 or contact them by e-mail at the following addresses:

<mailto:state@mag.maricopa.gov>

<mailto:tkennedy@azmag.gov>

**All information is required, unless noted by the word - Optional.**

### PART A - CONTACT AND PROJECT DESCRIPTION

**Contact Information**

1. Agency Name	Maricopa County
2. Name:	Eric Mayer
3. Phone:	602-506-8367
4. E-Mail:	EricMayer@mail.maricopa.gov
5. Mailing Address:	2901 West Durango Street
	Phoenix, AZ 85009

**Project Description**

6. Please provide the Project Title.	Hatfield Road PM-10 Paving
7. Please provide a general description of the project.	Maricopa County Department of Transportation has identified Hatfield Road from End of Maintenance to 107th Avenue to be considered for improvements under its Low Volume Road Program in which MCDOT plans to suppress the dust generated by paving frequently traveled dirt roads to improve air quality and other significant concerns.
8. Please attach a map showing the location(s) of the roadway(s), alley(s) or shoulder(s) to be paved.	<b>Please attach map with transmittal</b>
9. Please enter the number of <b>segments</b> to be included in the project (See definition of segments below).	1
10. Please review the PM-10 Monitor Locations to verify that the proposed project is in the nonattainment area. Enter 'Yes' or 'No'. <a href="#">Link to PM-10 Monitor Locations Map</a>	Yes

**Site Visit Information**

**PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION**

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11. It is required that the member agency proposing a project to be funded with federal funds has completed a site visit of the project within 60 days prior to the application due date. This is to help ensure familiarity with the project as it relates to eligibility, readiness, environmental issues, right of way/ownership issues, and utility conflicts.

a. Name of Person who completed site visit	Juan Castaneda
b. Date site visit completed	9/13/2012
c. Pictures of the site visit are required.	<b>Please attach pictures with transmittal</b>

**SEGMENTS: Each project will include one or more segments of roadway, alley or shoulder to be improved. A segment is defined as either:**

- a. A length of roadway, alley or shoulder to be improved with fixed starting and ending limit that has a relatively uniform cross section, or
- b. Discontinuous shoulder improvements along a continuous length of roadway with a fixed starting and ending limit that has a relatively uniform cross section.

The segment may curve or change direction, but must be continuous and have a relatively uniform cross section. **PART B MUST BE SUBMITTED FOR EACH SEGMENT OF THE PROJECT. If a MAG member agency is paving 'Various Locations', these must be defined and noted as separate Segments.**

## PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

This part of the form identifies the current characteristics and proposed improvements for each segment of the project. A separate Part B must be completed for each segment. e.g. If in field #9 of Part A, it was indicated that 5 segments were included in the project, 5 Part B's must be completed in the application. The additional Part Bs are separate tabs in this excel file noted as: Part\_B2, Part\_B3, etc.

The purpose of Part B is to provide sufficient information to evaluate the cost estimate for the project and to provide assurance that the project will be capable of meeting the ADOT administered federal design review and clearance process. This process requires environmental, ROW and utilities clearances and a bid ready design prior to FHWA approval to encumber federal funding for construction.

Section 1 - Segment Description	Segment 1
1. Segment Location - Include segment beginning and ending limits	Hatfield Road from End of Maintenance to 107th Avenue
2. Length and Curb Miles	
a. Length (Miles) of the segment	1.25
b. Curb Miles: Miles of shoulders or curbs to be paved by direction (e.g. if discontinuous shoulder sections on both sides of the roadway are to be paved, enter the combined distance of shoulders to be paved).	0
3. Please provide a map/graphic/photo that clearly shows the segment alignment and features that cross into or abut the alignment such as: washes, canals, railroad crossings, and other crossing features that may affect the project.	<b>Please attach map with transmittal</b>
4. Please provide a simple diagram of a typical cross section, including widths, of the segment that shows the current right of way limits, sidewalks and shoulders (if any), and the lanes of travel.	
5. Will the requested paving project pave a road, alley or shoulder within 4 miles of a PM-10 monitor? Which	Yes
<a href="#">Link to PM1- Monitors Map on the MAG Website</a>	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved. Also is the surface graveled or use dust suppressants?	The roadway grade is fairly flat with loose gravelly material throughout the project, especially on the side edges of the road.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	High volume of truck traffic from mining operation.
8. Current Average Traffic (ADT)	669
9. Please describe methodology used to calculate ADT	Standard tube count.
10. Federal law requires that all federally funded projects comply with a federal environmental clearance. For projects that have a minimum ground disturbance, environmental surveys are required and an environmental document will need to be prepared, which typically requires 12 months to complete. In the box to the right, please describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.	Field observations and research show the project is within active floodplain/floodway it will be necessary to obtain a permit from the Army Corp of Engineers in accordance with Section 404 of the Clean Water Act. MCDOT Environmental Group will review the project data, determine and prepare any Environmental Clearance or Impact Statement as required.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	No
ROW to be acquired	Yes
Owners will donate ROW	Yes
Condemnation may be required	Yes

**PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS**

12. Please describe any right of way issues associated with the segment.

According to the Maricopa County Assessor's map, there appears to be no right-of-way for this roadway.

## PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS

<b>13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)</b>	
Canals & Drainage	No
Power Lines & Cables	Yes
Pipelines, Sewer and Water	No
Private Structures	No
Other	
None	
<b>14. Please describe any utility conflicts that will need to be addressed.</b>	High voltage metal power poles parallel the south side of the roadway and then crosses to the north side at the paved section. The metal power poles are approximately 2-feet from the roadway on the south side. There are two wooden power poles on the south side which appear to bring power to a paved enclosed parcel, but are 10-feet from the edge of road.
<b>Section 2 - Proposed Improvements</b>	
<b>#REF!</b>	
<b>1. What is the type of paving project? (Choose all that Apply and Select Yes or No)</b>	
Rural Road	Yes
Urban Road	No
Subdivision Street	No
Alley	No
Shoulders	No
Other	Describe:
<b>2. Please describe the work to be performed on the segment:</b>	Improvements include placing a minimum 34-foot, one way crowned section AC pavement with thickened edge on the existing graded roadway to limit dust. Road should be sloped from north to south. The proposed pavement structural section for the dust mitigation projects is 2-inches over native material. This roadway experiences a high volume of truck traffic related to the commercial as such a geotechnical investigation is recommended. Reconstruct the roadway cut ditches and residential driveways as necessary. Dust proofing measures will include grading, watering and compaction and will assume a 6-inch AC pavement over 10-inch aggregate base course section. Match existing cross section as close as possible to eliminate the need for imported material.
<b>3. Please provide a simple diagram of a typical cross section, including widths, of the segment that shows the proposed improvement(s) and the after construction right of way limits, sidewalks and shoulders (if any), and the lanes of travel.</b>	
<b>4. (Optional for shoulder and alley paving, required for road paving) Please describe vertical alignment changes.</b>	
<b>5. (Optional for shoulder and alley paving, required for road paving) Please describe horizontal alignment changes.</b>	
<b>6. (Optional for shoulder and alley paving, required for road paving) Design speed of the after construction segment.</b>	
<b>7. Please describe the type of paving for the segment.</b>	2-inch AC pavement
<b>8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)</b>	
Sidewalks	No

**PART B - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS**

Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Drainage Improvements; utility improvements and signing/stripping
9. Please describe the non paving improvements to be included in the segment.	<p>A drainage analysis should be prepared in order to adequately address historic flows and issues as part of the construction documents.</p> <p>The Agua Fria River crosses the road for approximately 2100-feet. At minimum, the roadway crossing the river should be improved as a concrete ford crossing with consideration given to culverts that would allow some water to pass and some to overtop the road during some storm drain events. A bridge crossing would be an expensive solution that would only benefit a small segment of the population, commercial trucks could drive west to 117th Avenue during those times the river is flowing.</p> <p>Roadway cross section slopes will be built to match existing drainage courses and not impede historic drainage patterns. If the roadway is improved, several of the high voltage power poles will be within the clear zone, the cost of relocation would be significant. Alternatives would be to realign the roadway to increase or shielding the poles through concrete barricades or guardrail.</p> <p>This roadway should be considered a collector road as such should be striped with a center and edge lines. Existing stop signs at 107th and 117th Avenues and adjacent streets shall be maintained.</p>
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	0

**PART C - TOTAL PROJECT SCHEDULE AND BUDGET INCLUDING ALL SEGMENTS**

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. Utilities and right of way should be programmed at least 1 year prior to construction, but may occur in the same year as construction depending on utility and right of way concerns that are identified in the segment description(s) in Part B(s).

**Section 1 - Total Project Budget**

1. Please attach a detailed cost estimate (OPTIONAL)	
Cost Estimate for the Project Including ALL Segments	Cost (Optional) Additional Notes
2. PE and Final Design	\$ 350,000
3. Right of way	\$ 290,000
4. Utilities	\$ 220,000
5. Construction	\$ 3,050,000
6. Contingency	\$ 600,000
7. Total Cost w/o ADOT Review Fee	\$ 4,510,000.00
8. ADOT Review Fee	\$ 90,200.00
9. Total Cost with ADOT Review Fee	\$ 4,600,200.00

Required ADOT review fee. The fee is calculated as \$20,000 or 2% of project cost, which ever is higher.

Summation of Cost Cells

**Agency Programming**

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

Requested MAG Programming	Year (Choose One)	Local Funding Source	Local Cost	CMAQ COST	Total Cost
11. Design	2016	HURF	350,000	0	350,000
12. Right of way and Utilities	2014	HURF	510,000	0	510,000
13. Construction	2017	HURF	208,050	3,441,950	3,650,000
			1,068,050	3,441,950	4,510,000

### PART D - SIGNATURE AND CHECKLIST

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

Signature: 

Name: John B. Hauskins, P.E.

Title: Director, Maricopa County Department of Transportation

Date: 9/19/2012

#### 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 - Contact, Project Description and Site Visit Fields	Complete?
Contact Information, fields 1 – 5 are complete	<input type="checkbox"/>
Project Description, fields 6, 7, 9 and 10 are complete	<input type="checkbox"/>
Project Description, field 8 – project map is provided in the printed application. Please attach a PDF file in the electronic submittal.	<input type="checkbox"/>
Site Visit Information, fields 11a and 11b	<input type="checkbox"/>
Site Visit Information, fields 11c Pictures attached.	<input type="checkbox"/>
PART B - Segment Description and Proposed Improvements Fields	Complete?
The number of complete Part B Segments match the number of segments listed in Part A, Field 9.	<input type="checkbox"/>
<b>Segment Description, Section 1</b>	
Fields 1 - 2 are complete	<input type="checkbox"/>
Field 3 – segment alignment map is provided in the printed application. Please attach PDF file in the electronic submittal.	<input type="checkbox"/>
Field 4 attach PDF file in the electronic submittal.	<input type="checkbox"/>
Fields 5 – 14 are complete	<input type="checkbox"/>
<b>Proposed Improvements, Section 2</b>	
Fields 1 – 2 are complete	<input type="checkbox"/>
Field 3 attach PDF file in the electronic submittal.	<input type="checkbox"/>
Fields 4 – 6 REQUIRED for Road and Street Segments and are complete.	<input type="checkbox"/>
Fields 4 – 6 OPTIONAL for shoulder and alley segments, please check box if complete.	<input type="checkbox"/>
Fields 7 – 10 are complete	<input type="checkbox"/>
PART C - Total Project Schedule and Budget Including All Segment Fields	Complete?
<b>Section 1 - Total Project Budget</b>	
Fields 1- is OPTIONAL. Please attach a PDF file in the electronic submittal if a detailed cost estimate is provided with printed application	<input type="checkbox"/>
Fields 2 – 6 are complete	<input type="checkbox"/>
Field 7 is REQUIRED for non certified agencies, please check box if included and provided in the printed application.	<input type="checkbox"/>
Field 8 is OPTIONAL, please check box if included and provided in the printed application. Please attach PDF file in the electronic submittal.	<input type="checkbox"/>
Field 9 - total cost field is complete	<input type="checkbox"/>
Field 10 - Agency CIP programming is completed	<input type="checkbox"/>
Fields 11 – 13 Years are complete	<input type="checkbox"/>
Fields 11 – 13 Local Funding Sources are complete	<input type="checkbox"/>
Fields 11 – 13 Local Costs are complete	<input type="checkbox"/>
Fields 11 – 13 Total Costs are complete	<input type="checkbox"/>
Field 13 Federal Costs are complete	<input type="checkbox"/>
<b>Section 2 - Project Schedule is OPTIONAL</b>	
Fields 1 - 14 are OPTIONAL	<input type="checkbox"/>
PART D - Signature Page Fields	Complete?
Form is signed	<input type="checkbox"/>
Name, title and date fields are completed.	<input type="checkbox"/>

## TRANSMITTAL INSTRUCTIONS and SCHEDULE

The due date and time for project applications to be submitted to MAG is **Wednesday, September 19, 2012 by 10:00 p.m.**

### Member agencies are to:

#### 1) Transmit the application and all attachments electronically, and

To transmit the application electronically, please save the excel file, and then send the application and all attachments to Teri Kennedy, Transportation Programming Manager. Please send graphic attachments in PDF form. Click cell below to send e-mail.

[mailto: MAG Staff](mailto:)

#### 2) Submit two printed, signed, and complete applications to MAG.

To submit two printed, signed, and complete applications to MAG, the applicant can mail (at MAG offices by Wednesday September 19, 2012 at 10:00 or drop off application to:

Maricopa Association of Governments  
ATTN: Teri Kennedy,  
302 N. 1st Avenue, Suite #300,  
Phoenix, AZ 85003.

Or, the applicant can scan a printed and signed application and transmit it via e-mail or fax to: [tkennedy@azmag.gov](mailto:tkennedy@azmag.gov) or 602.254.6300 by Wednesday, September 19th @ 10:00 a.m. If the applicant is transmitting a scanned, printed, and signed application via e-mail or fax, the applicant will mail or drop off the original printed application by Wednesday, September 26, 2012.

### Application Workshops and Open Working Group Meeting Schedule\*

Monday, August 13, 2012 from 9:00-11:00 AM	Workshop on MAG Transportation Programming and Federal Fund Project Applications
Monday, August 27, 2012 from 1:00-3:30 PM	Open Working Group - Federal Fund Project Applications
Monday, September 10, 2012 from 8:30-11:00 AM	Open Working Group - Federal Fund Project Applications

\* All meetings will be held on the 2nd Floor of the MAG Offices at 302 North 1st Ave, Suite 300, Phoenix, Arizona 85003

PM-10 Paving Application from Maricopa County for 'Hatfield Road PM-10 Paving'

## Instructions for the Submittal of GIS Data for CMAQ Funding Applications

It is preferred that, when possible, member agencies submit GIS data representing the locations of projects defined in their CMAQ Applications. For member agencies unable to meet this requirement, MAG staff is available to assist in this area.

### Submission Requirements

GIS Data – For each geometry type (point, line, polygon), please provide a single GIS shapefile or feature class for your jurisdiction. Example: if you are submitting Project Applications that are for both linear features (bike lanes) and point features (crossings), you would submit a total of two shapefiles or geodatabase feature classes along with your Project Application.

File Formats – Agencies that are able to submit GIS data along with CMAQ Applications shall provide the data in one of three formats that are compatible with ESRI products: (1) shapefile, (2) Personal Geodatabase, or (3) File Geodatabase.

Spatial Reference – The preferred spatial reference system of submitted GIS data is State Plane Arizona Central NAD 83 HARN.

Attributes – All GIS data submitted shall, at a minimum, have the following attributes:

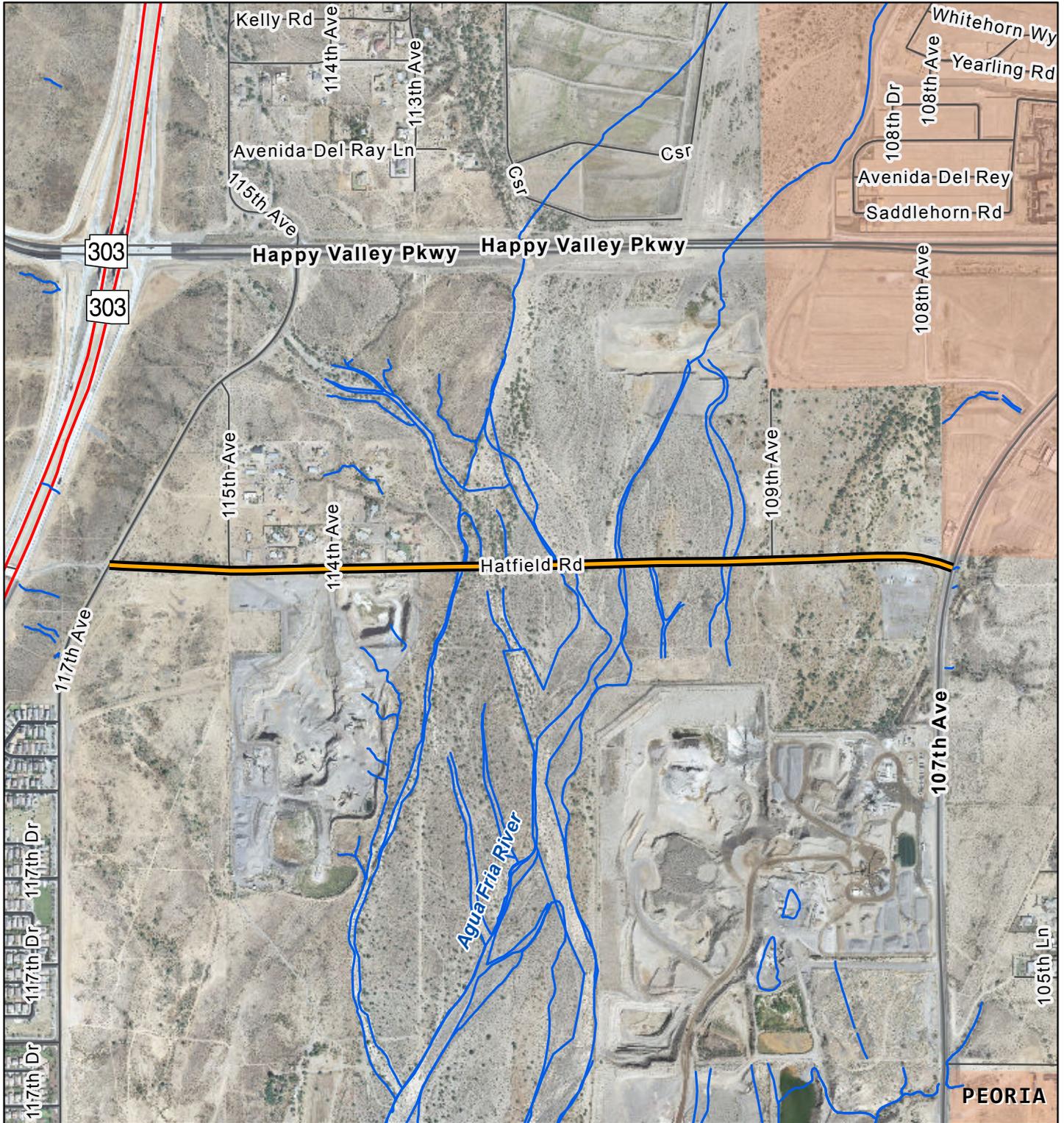
- PROJECT\_TITLE – the name of the project; this should be the same as the Project Title in the Project Application
- LOCATION – (optional) a description of the location of the project. Linear features should be described by their start and end locations. Polygon features should be described using streets, water courses, canals, city boundaries, or other landmarks as a means of describing the location of the project.

<Provide screenshot showing graphic link between survey response in Excel and the attribute table.>



# Hatfield Road - End of Maintenance to 107th Avenue

## Hatfield Road



Maricopa County Public Works GIS Division September 2012

-  Road Segment
-  River



Hatfield Rd - EOM to 107th Ave Photos



Figure 1 - Looking east onto Hatfield Road, approaching 107th Avenue.

Hatfield Rd - EOM to 107th Ave Photos



Figure 2 - Looking onto Hatfield Road, just west of the 107th Avenue intersection.

Hatfield Rd - EOM to 107th Ave Photos



Figure 3 - Looking west onto Hatfield Road, approaching the Agua Fria River.

Hatfield Rd - EOM to 107th Ave Photos



Figure 4 - Looking east at the T-intersection of Hatfield Road and 117th Avenue.

Hatfield Rd - EOM to 107th Ave Photos



Figure 5 - Looking east at the intersection of Hatfield Road and 115th Avenue.

Hatfield Rd - EOM to 107th Ave Photos

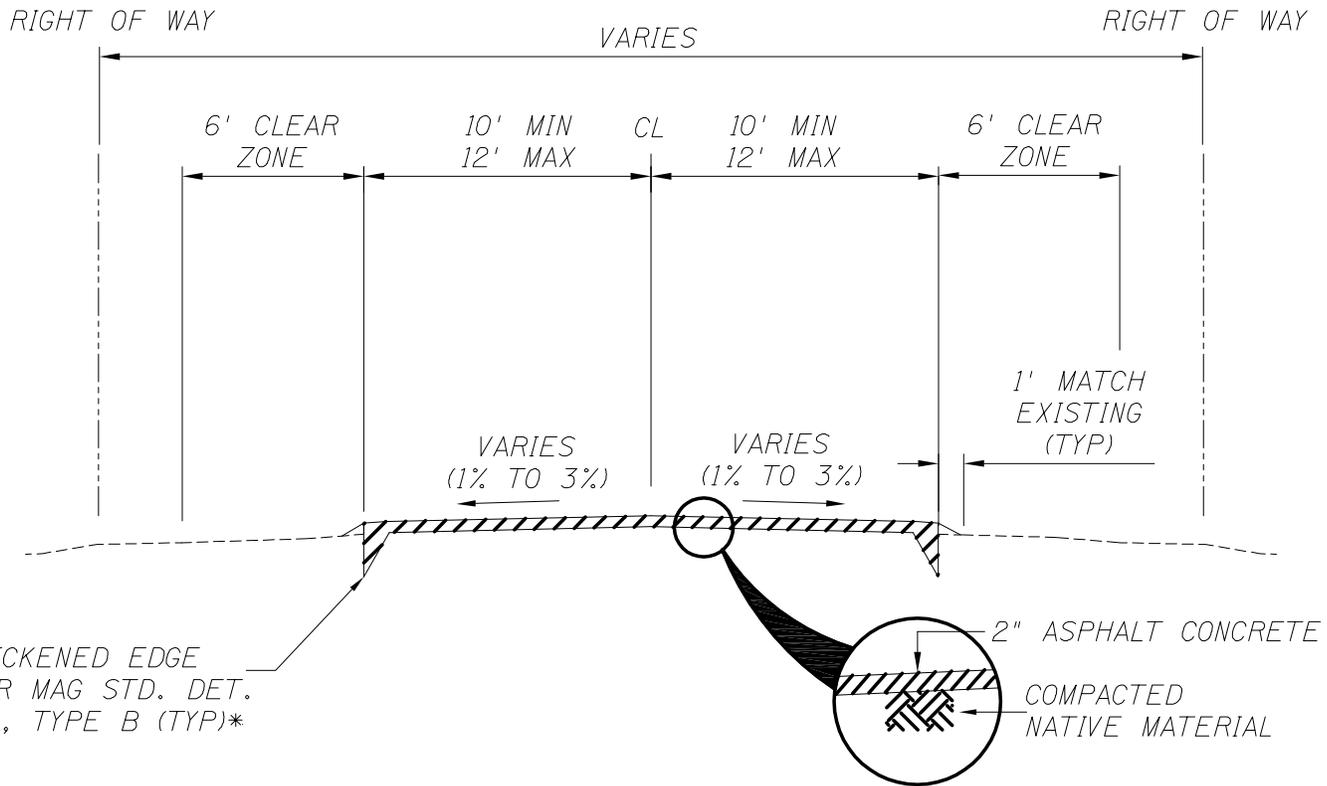


Figure 6 - Looking east onto Hatfield Road from the apex of the roadway.

Hatfield Rd - EOM to 107th Ave Photos



Figure 7 - Looking east onto Hatfield Road at the bottom of the hill.



TYPICAL CROSS SECTION-CROWNED

\* UNLESS OTHERWISE DIRECTED BY THE ENGINEER

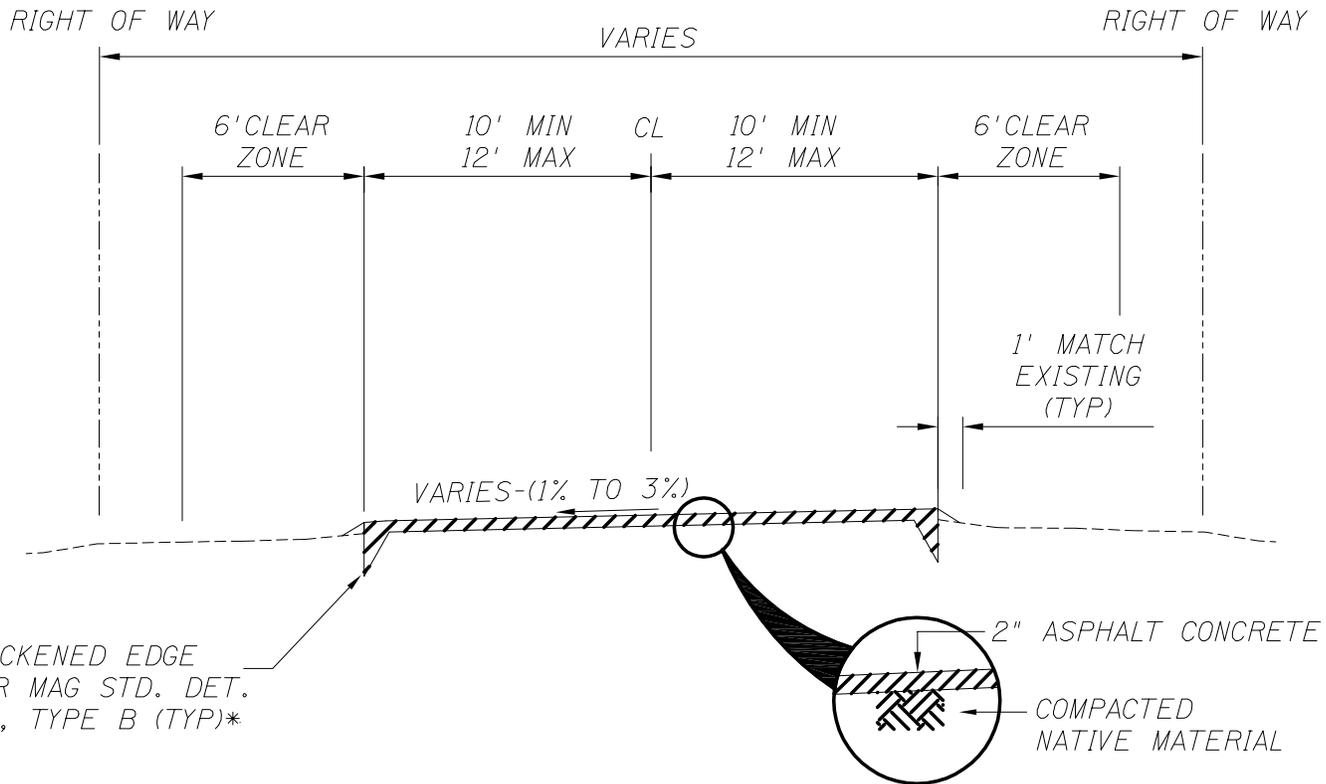
**LOW VOLUME ROAD  
EXHIBIT**

**JOB NUMBER  
193141.401**

**DATE: JAN. 2008**  
**DRAWING:**

**JACOBS CARTER BURGESS**

101 N. FIRST AVE., #3100  
PHOENIX, AZ 85003  
TEL: 602.253.1200  
FAX: 602.253.1202



TYPICAL CROSS SECTION-ONE WAY

\* UNLESS OTHERWISE DIRECTED BY THE ENGINEER

DATE: JAN. 2008 DRAWING:	<b>LOW VOLUME ROAD EXHIBIT</b>	JOB NUMBER <b>193141.401</b>
		101 N. FIRST AVE., #3100 PHOENIX, AZ 85003 TEL: 602.253.1200 FAX: 602.253.1202