PHX-PAVE-3

City of Phoenix

Maricopa Association of Governments
SEP 18 2012
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PM-10 PAVING UNPAVED ROAD PROJECT

FY 2017

PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION

CMAQ Funding Available for Federal Fiscal Year 2015, 2016 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	Phoenix
2. Name:	Rubben Lolly, PE
3. Phone:	602-495-2048
4. E-Mail:	rubben.lolly@phoenix.gov
5. Mailing Address:	City Hall 200 W. Washington Street, 5th Floor Phoenix, AZ 85003
Project Description	
6. Please provide the Project Title.	2017 CMAQ Alley Dust Proofing
7. Please provide a general description of the project.	This project will dust proof approximately 29.2 miles of unstabilized alleys within the City of Phoenix using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material.
8. Please attach a map showing the location(s) of the roadway(s), alley(s) or shoulder(s) to be paved.	**Please attach map with transmittal**
9. Please enter the number of **segments** to be included in the project (See definition of segments below).	9
10. Please review the PM-10 Monitor Locations to verify that the proposed project is in the nonattainment area. Enter 'Yes' or 'No'. Link to PM-10 Monitor Locations Map	Yes
Site Visit Information	
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	Rubben Lolly, PE/ Tony Arviso
b. Date site visit completed	Aug-2012
c. Pictures of the site visit are required.	**Please attach pictures with transmittal**

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CMAQ Funding Available for Federal Fiscal Year 2015, 2016 and 2017

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 B1 - 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	Quarter Section 27-19
2. Length and Curb Miles	
a. Length (Miles) of the segment	4.1
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).	
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.	**Please attach map with transmittal**
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 withing 4 miles of a PM-10 monitor? Which	4.5 miles
Link to PM1- Monitors Map on the MAG Website	
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 suppresants?	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None

PART B1 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 1**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

PM-10 Paving Application from Phoenix for '2017 CMAQ Alley Dust Proofing'

PART B2 - 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 2**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 27-20
2. Length and Curb Miles	
a. Length (Miles) of the segment	3.1
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	4.0 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B2 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 2**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. **(Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

PM-10 Paving Application from Phoenix for '2017 CMAQ Alley Dust Proofing'

PART B3 - 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.

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Section 1 - Segment Description	**Segment 3**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 27-25
2. Length and Curb Miles	
a. Length (Miles) of the segment	1.6
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	1.5 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B3 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 3**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. **(Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

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PART B4 - 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 4**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 28-19
2. Length and Curb Miles	
a. Length (Miles) of the segment	3.1
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	5.0 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B4 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 4**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

PART B5 - 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 5**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 28-20
2. Length and Curb Miles	
a. Length (Miles) of the segment	2.9
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	4.5 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B5 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 5**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

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PART B6 - 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 6**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 28-33
2. Length and Curb Miles	
a. Length (Miles) of the segment	3.9
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	3.0 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B6 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 6**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

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PART B7 - 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.

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Section 1 - Segment Description	**Segment 7**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 29-20
2. Length and Curb Miles	
a. Length (Miles) of the segment	3.8
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	5.0 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B7 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utiiity conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 7**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

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PART B8 - 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.

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Section 1 - Segment Description	**Segment 8**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 29-21
2. Length and Curb Miles	
a. Length (Miles) of the segment	4
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	4.5 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B8 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 8**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

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PART B9 - 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 9**
1. Segment Location - Include segment beginning and ending limits	Quarter Section 30-20
2. Length and Curb Miles	
a. Length (Miles) of the segment	2.6
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).	
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.	**Please attach map with transmittal**
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. Proximity of the segment to nearest PM-10 air quality monitor: (Indicate miles)	5.5 miles
Link to PM1- Monitors Map	
6. Please describe the current surface condition of the shoulder, alley or road segment to be paved:	Alleys are dirt with a traveled width of eleven feet that will be dust proofed.
7. Please describe traffic on the segment (e.g weekday percent truck, etc.).	Traffic consists of trash pick-up, maintenance vehicles, and passenger vehicles.
8. Current Average Traffic (ADT)	Approx. 10 VPD
9. Please describe methodology used to calculate ADT	Estimated ADT based on City's previous experience.
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.	There are no known cultural, historical or biological resources, hazardous materials or other environmental issues that could affect work in this area. If environment concerns do arise during design, the segment will be removed from the project.
11. Current ROW: (Choose All that Apply and select Yes or No)	
Agency owns all ROW Needed	Yes
ROW to be acquired	No
Owners will donate ROW	No
Condemnation may be required	No
12. Please describe any right of way issues associated with the segment.	None
13. Current Utilities in or abutting the alignment: (Choose All that Apply and Select Yes or No)	

PART B9 - SEGMENT DESCRIPTION AND PROPOSED IMPROVEMENTS	
Canals & Drainage	No
Power Lines & Cables	No
Pipelines, Sewer and Water	No
Private Structures	No
Other	Describe:
None	No
14. Please describe any utility conflicts that will need to be addressed.	There are no known utility conflicts. Due to the minimal ground disturbance associated with this type of work and staying within the existing traveled alleyway, utilities are not typically affected. Manholes may occasionally need to be adjusted to grade.
Section 2 - Proposed Improvements	**Segment 9**
1. What is the type of paving project? (Choose all that Apply and Select Yes or No)	
Rural Road	No
Urban Road	No
Subdivision Street	No
Alley	Yes
Shoulders	No
Other	Describe:
2. Please describe the work to be performed on the segment:	The alley segments will be dust proofed using a 3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips to existing dirt alleys. Clearing, grubbing and subgrade preparation will be required for application of the material. Work will be done within the existing alleyway and ground disturbance will be minimal.
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.	
4. (**Optional for shoulder and alley paving, required for road paving)** Please describe vertical alignment changes.	
5. **(Optional for shoulder and alley paving, required for road paving)** Please describe horizontal alignment changes.	
6. **(Optional for shoulder and alley paving, required for road paving)** Design speed of the after construction segment.	
7. Please describe the type of paving for the segment.	3/8" Fractured Aggregate Surface Treatment (FAST) which provides a single application of rubberized asphalt and precoated chips.
8. Non paving improvements to be included: (Choose All that Apply and Select Yes or No)	
Sidewalks	No
Fencing	No
Lighting	No
Curb & Gutter	No
Bicycle path or lane	No
Other	Describe:
9. Please describe the non paving improvements to be included in the segment.	None
10. For roadway paving, please enter the number of unpaved access points (e.g. driveways, cross roads) to be paved by the project.	None

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	$ 60,000	
3. Right of way	$ 5,000	
4. Utilities	$ 5,000	
5. Construction	$ 1,559,909	
6. Contingency		
7. Total Cost w/o ADOT Review Fee	$ 1,629,909.13	
8. ADOT Review Fee	$ 32,598.18	Required ADOT review fee. The fee is calculated as $20,000 or 2% of project cost, which ever is higher.
9. Total Cost with ADOT Review Fee	$ 1,662,507.31	Summartion of Cost Cells

Agency Programming

10. Please describe the programming of the project in the agency's own CIP/TIP.	The City has an annual programmed CIP budget of $800,000.00 for dust control projects including alleys and roadways and shoulder. Part of this budget will be dedicated to fund the local cost as needed.

Requested MAG Programming	**Year (Choose One)**	**Local Funding Source**	**Local Cost**	**CMAQ COST**	**Total Cost**
11. Design	2016	CCF	60,000	0	60,000
12. Right of way and Utilities	2016	CCF	10,000	0	10,000
13. Construction	2017	CCF	270,000	1,289,909	1,559,909
			340,000	1,289,909	1,629,909

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FY 2017 PM-10 PAVING PROJECTS COST ESTIMATE WORKSHEET

	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	Eligible for Federal Funds: Yes or No	FEDERAL SHARE	LOCAL SHARE
PRELIMINARY ENGINEERING	Topographic Survey	LS	1	$ -	$ -	No	$ -	$ -
	Design Cconcept Report (DCR)	LS	1	$ -		No	$ -	$ -
	Federal Project Environmental Determination	LS	1	$ 54,000.00	$ 54,000.00	No	$ -	$ 54,000.00
	HAZMAT Assessment	LS	1	$ -	$ -	No	$ -	$ -
	SUBTOTAL – PRELIMINARY ENGINEERING COSTS				**$ 54,000.00**		**$ -**	**$ 54,000.00**
FINAL DESIGN - Stages II, III, IV and PS&E	Plans, Specifications, Cost Estimates, Bidding	LS	1	$ 6,000.00	$ 6,000.00	No	$ -	$ 6,000.00
	Geotechnical Report	LS	1	$ -	$ -	No	$ -	$ -
	Drainage Report	LS	1	$ -	$ -	No	$ -	$ -
	SWPPP	LS	1	$ -	$ -	No	$ -	$ -
	SUBTOTAL – FINAL DESIGN COSTS				**$ 6,000.00**		**$ -**	**$ 6,000.00**
RIGHT OF WAY ACQUISITION	Appasials and Title Reports	LS	1	$ -	$ -	No	$ -	$ -
	Road Right of Way	LS	1	$ -	$ -	No	$ -	$ -
	Temporary Construction Easements	LS	1	$ -	$ -	No	$ -	$ -
	Drainage Easement	LS	1	$ -	$ -	No	$ -	$ -
	Utility Easements/Right of Way	LS	1	$ -	$ -	No	$ -	$ -
	Aerial Electrical Easement	LS	1	$ -	$ -	No	$ -	$ -
	Sign Relocations	LS	1	$ -	$ -	No	$ -	$ -
	Relocation Expenses	LS	1	$ -	$ -	No	$ -	$ -
	Site Environmental Assessments	EA			$ -	No	$ -	$ -
	Building Demolotion	EA			$ -	No	$ -	$ -
	Other Right of Way Expenses	LS	1	$ 5,000.00	$ 5,000.00	No	$ -	$ 5,000.00
	Other Right of Way Expenses				$ -	No	$ -	$ -
	Other Right of Way Expenses				$ -	No	$ -	$ -
	SUBTOTAL – RIGHT OF WAY COSTS				**$ 5,000.00**		**$ -**	**$ 5,000.00**
UTILITY RELOCATIONS	Relocate 69 kv (+) Poles	EA	1	$ -	$ -	No	$ -	$ -
	Relocate/Underground 12 kv lines	LF			$ -	No	$ -	$ -
	Relocate/Underground Irrigation Canal	LF			$ -	No	$ -	$ -
	SWG Relocations	LS	1	$ -	$ -	No	$ -	$ -
	Telephone/Cable TV Relocations	LS	1	$ -	$ -	No	$ -	$ -
	Upgrade Railroad Crossings	LS	1	$ -	$ -	No	$ -	$ -
	Other Utilities	LS	1	$ 5,000.00	$ 5,000.00	No	$ -	$ 5,000.00
	Other Utilities	LS	1	$ -	$ -	No	$ -	$ -
	SUBTOTAL – UTILITY RELOCATION COSTS				**$ 5,000.00**		**$ -**	**$ 5,000.00**

FY 2017 PM-10 PAVING PROJECTS COST ESTIMATE WORKSHEET

	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	Eligible for Federal Funds: Yes or No	FEDERAL SHARE	LOCAL SHARE
CONSTRUCTION	Contractor Mobilization	LS	1	$ -	$ -	Yes	$ -	$ -
	HAZMAT Abatement	LS	1	$ -	$ -	Yes	$ -	$ -
	Construction Survey and Layout	LS	1	$ -	$ -	Yes	$ -	$ -
	Tempoary Traffic Control	LS	1	$ -	$ -	Yes	$ -	$ -
	Remove Existing Improvements	LS	1	$ -	$ -	Yes	$ -	$ -
	Remove Curb and Gutter	LF			$ -	Yes	$ -	$ -
	Remove Pavement	SY			$ -	Yes	$ -	$ -
	Remove Driveway	SF			$ -	Yes	$ -	$ -
	Remove Concrete Sidewalks, Slabs	SF			$ -	Yes	$ -	$ -
	General Excavation	LS	1	$ -	$ -	Yes	$ -	$ -
	Drainage Excavation	LS	1	$ -	$ -	Yes	$ -	$ -
	Backfill/Borrow Material	LS	1	$ -	$ -	Yes	$ -	$ -
	AC Pavement including ABC Base	SY			$ -	Yes	$ -	$ -
	Concrete Pavement including ABC Base	SY			$ -	Yes	$ -	$ -
	AC Mill and Overlay	SY			$ -	Yes	$ -	$ -
	Curb and Gutter	LF			$ -	Yes	$ -	$ -
	Aggregate Base	SY			$ -	Yes	$ -	$ -
	Concrete Driveways	SF			$ -	Yes	$ -	$ -
	Colored Concrete	SF			$ -	Yes	$ -	$ -
	Concrete Pavers	SF			$ -	Yes	$ -	$ -
	Stamped Asphalt	SF			$ -	Yes	$ -	$ -
	Stamped Concrete	SF			$ -	Yes	$ -	$ -
	Concrete Sidewalk	SF			$ -	Yes	$ -	$ -
	Pedestrian ADA Ramps	EA			$ -	Yes	$ -	$ -
	Bus Bay	EA			$ -	Yes	$ -	$ -
	Bus Shelters	EA			$ -	Yes	$ -	$ -
	Irrigation Pipeline	LF			$ -	Yes	$ -	$ -
	Irrigation Canal relocation	LF			$ -	Yes	$ -	$ -
	Irrigation Canal Culvert/Bridge Crossing	EA			$ -	Yes	$ -	$ -
	Decorative Screen Walls	LF			$ -	Yes	$ -	$ -
	Retaining Wall	SF			$ -	Yes	$ -	$ -
	Electrical Service Connection	EA			$ -	Yes	$ -	$ -
	Joint Trench Conduit, including City Spare	LF			$ -	Yes	$ -	$ -
	Traffic Signal Intertie	LF			$ -	Yes	$ -	$ -
	Traffic Signal	EA			$ -	Yes	$ -	$ -
	Temporary Traffic Signal	EA			$ -	Yes	$ -	$ -
	Traffic Signage and Markings	LS	1	$ -	$ -	Yes	$ -	$ -
	Street Lighting including conduit and trenching	EA			$ -	Yes	$ -	$ -
	Pedestrian Lighting including conduit and	EA			$ -	Yes	$ -	$ -
	Handrail	LF			$ -	Yes	$ -	$ -
	Utility Protection and Adjustments	LS	1	$ -	$ -	Yes	$ -	$ -
	Adjust Water Valve	EA			$ -	Yes	$ -	$ -
	Relocate Fire Hydrant	EA			$ -	Yes	$ -	$ -
	Adjuste Manholes	EA			$ -	Yes	$ -	$ -
	Drainage Catchbasins and Scuppers	EA			$ -	Yes	$ -	$ -
	Storm Drain 48"	LF			$ -	Yes	$ -	$ -
	Storm Drain 36"	LF			$ -	Yes	$ -	$ -
	Storm Drain 24"	LF			$ -	Yes	$ -	$ -
	Storm Drain 18"	LF			$ -	Yes	$ -	$ -
	New Waterline 8"	LF			$ -	Yes	$ -	$ -
	New Waterline 12"	LF			$ -	Yes	$ -	$ -
	New Waterline 16"	LF			$ -	Yes	$ -	$ -
	New Sanitary Sewer 8"	LF			$ -	Yes	$ -	$ -
	New Sanitary Sewer 12"	LF			$ -	Yes	$ -	$ -
	Trees (36" box)	EA			$ -	Yes	$ -	$ -
	Tree Grates	EA			$ -	Yes	$ -	$ -
	Trees (24" box)	EA			$ -	Yes	$ -	$ -
	Shrubs (5 gallon)	EA			$ -	Yes	$ -	$ -
	Shrubs (1 gallon)	EA			$ -	Yes	$ -	$ -
	Cactus (5 gallon)	EA			$ -	Yes	$ -	$ -
	Decomposed Granite	SY			$ -	Yes	$ -	$ -
	Topsoil	SY			$ -	Yes	$ -	$ -

FY 2017 PM-10 PAVING PROJECTS COST ESTIMATE WORKSHEET

	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	Eligible for Federal Funds: Yes or No	FEDERAL SHARE	LOCAL SHARE
	Seeding	Acre			$ -	Yes	$ -	$ -
	Sod	SY			$ -	Yes	$ -	$ -
	Boulders	EA			$ -	Yes	$ -	$ -
	Irrigation System - Drip	LS	1	$ -	$ -	Yes	$ -	$ -
	Irrigation System - Turf	LS	1	$ -	$ -	Yes	$ -	$ -
	Irrigation Booster Pump	EA			$ -	Yes	$ -	$ -
	Landscape Header Curb	LF			$ -	Yes	$ -	$ -
	Landscape Establishment	LS	1	$ -	$ -	Yes	$ -	$ -
	Benches/Seatwalls	EA			$ -	Yes	$ -	$ -
	Bike Racks	EA			$ -	Yes	$ -	$ -
	Trash Receptacles	EA			$ -	Yes	$ -	$ -
	Drinking Fountains	EA			$ -	Yes	$ -	$ -
	Clearing, Grubbing (MAG201) and Subgrade Preparation (MAG301)	SY	205,325	$ 1.57	$ 322,360.25	Yes	$ 303,985.72	$ 18,374.53
	Replace Unuitable Subgrade Materials (Contingent)	CY	277	$ 35.01	$ 9,697.77	Yes	$ 9,145.00	$ 552.77
	Uniformed, Off-Duty Police Officers (Contingent)	HRS	80	$ 47.74	$ 3,819.20	Yes	$ 3,601.51	$ 217.69
	Power Broom (for Dust Control & Prevention per Supplementary Conditions)	HRS	20	$ 126.25	$ 2,525.00	Yes	$ 2,381.08	$ 143.93
	Weed Control Pre-emerge	SY	205,325	$ 0.04	$ 8,213.00	Yes	$ 7,744.86	$ 468.14
	Weed Control Post-emerge	SY	205,325	$ 0.16	$ 32,852.00	Yes	$ 30,979.44	$ 1,872.56
	Single Application of MC-800TR & Precoated Chips	SY	188,215	$ 6.03	$ 1,134,936.45	Yes	$ 1,070,245.07	$ 64,691.38
	Traffic Control Devices	LS	1	$ 45,505.46	$ 45,505.46	Yes	$ 42,911.65	$ 2,593.81
	Place for entering an additional item #9				$ -	Yes	$ -	$ -
	Place for entering an additional item #10				$ -	Yes	$ -	$ -
	Place for entering an additional item #11				$ -	Yes	$ -	$ -
	Place for entering an additional item #12				$ -	Yes	$ -	$ -
	Place for entering an additional item #13				$ -	Yes	$ -	$ -
	Place for entering an additional item #14				$ -	Yes	$ -	$ -
	Place for entering an additional item #15		1		$ -	Yes	$ -	$ -
	Place for entering an additional item #16				$ -	Yes	$ -	$ -
	Place for entering an additional item #17				$ -	Yes	$ -	$ -
	Place for entering an additional item #18				$ -	Yes	$ -	$ -
	Place for entering an additional item #19				$ -	Yes	$ -	$ -
	Place for entering an additional item #20				$ -	Yes	$ -	$ -
	SUBTOTAL - CONSTRUCTION COST				**$ 1,559,909.13**		**$ 1,470,994.31**	**$ 88,914.82**
	CONTINGENCY			**0%**	**$ -**	No	$ -	$ -
	ADOTCONSTRUCTION ADMINISTRATION			**0%**	**$ -**	No	$ -	**$ -**
	SUBTOTAL - CONSTRUCTION COST				**$ 1,559,909.13**		$ 1,470,994.31	**$ 88,914.82**

FY 2017 PM-10 PAVING PROJECTS COST ESTIMATE WORKSHEET

	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	Eligible for Federal Funds: Yes or No	FEDERAL SHARE	LOCAL SHARE
SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS	PRELIMINARY ENGINEERING				$ 54,000.00	NA	$ -	$ 54,000.00
	FINAL DESIGN - Stages II, III, IV and PS&E				$ 6,000.00	NA	$ -	$ 6,000.00
	RIGHT OF WAY ACQUISITION				$ 5,000.00	NA	$ -	$ 5,000.00
	UTILITY RELOCATIONS				$ 5,000.00	NA	$ -	$ 5,000.00
	CONSTRUCTION (Including ADOT Construction Administration)				$ 1,559,909.13	NA	$ 1,470,994.31	$ 88,914.82
	SUBTOTAL - PROJECT COST				$ 1,629,909.13	NA	$ 1,470,994.31	$ 158,914.82
	ADOT REVIEW FEES (The higher amount of 2% of Project Cost or $20,000)				**$ 32,598.18**	**No**	**$ -**	**$ 32,598.18**
	PROJECT TOALS (Including ADOT Review Fees)				**$ 1,662,507.31**	**NA**	**$ 1,470,994.31**	**$ 191,513.00**

2017 CMAQ Pave Dirt Alleys Program

City of Phoenix Project No.: ST874XXXXX
ADOT Project No.: CM-PHX-XXXXXX
TRACS No.:
STIP No.:

Draft EngineersEstimate

1	Clearing, Grubbing (MAG201) and Subgrade Preparation (MAG301)	205,325	Sq. Yd	x	$1.57	=	$322,360.25
2	Replace Unuitable Subgrade Materials (Contingent)	277	CU. YD	x	$35.01	=	$9,697.77
3	Uniformed, Off-Duty Police Officers (Contingent)	80	Hrs	x	$47.74	=	$3,819.20
4	Power Broom (for Dust Control & Prevention per Supplementary Conditions.)	20	Hrs	x	$126.25	=	$2,525.00
5	Weed Control Pre-emerge	205,325	Sq. Yd	x	$0.04	=	$8,213.00
6	Weed Control Post-emerge	205,325	Sq. Yd	x	$0.16	=	$32,852.00
7	Single Application of MC-800TR & Precoated Chips	188,215	Sq. Yd	x	$6.03	=	$1,134,936.45
8	Traffic Control Devices	1	L.S.	x	$45,505.46	=	$45,505.46
Construction Total Base Bid (Items 1 Through 8 - Inclusive)						=	**$1,559,909.13**
Design and Environmental and utility clearance						**$**	**70,000.00**
Project Total							**$1,629,909.13**

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: R. Naimark

Name: Rick Naimark

Title: Deputy City Manager

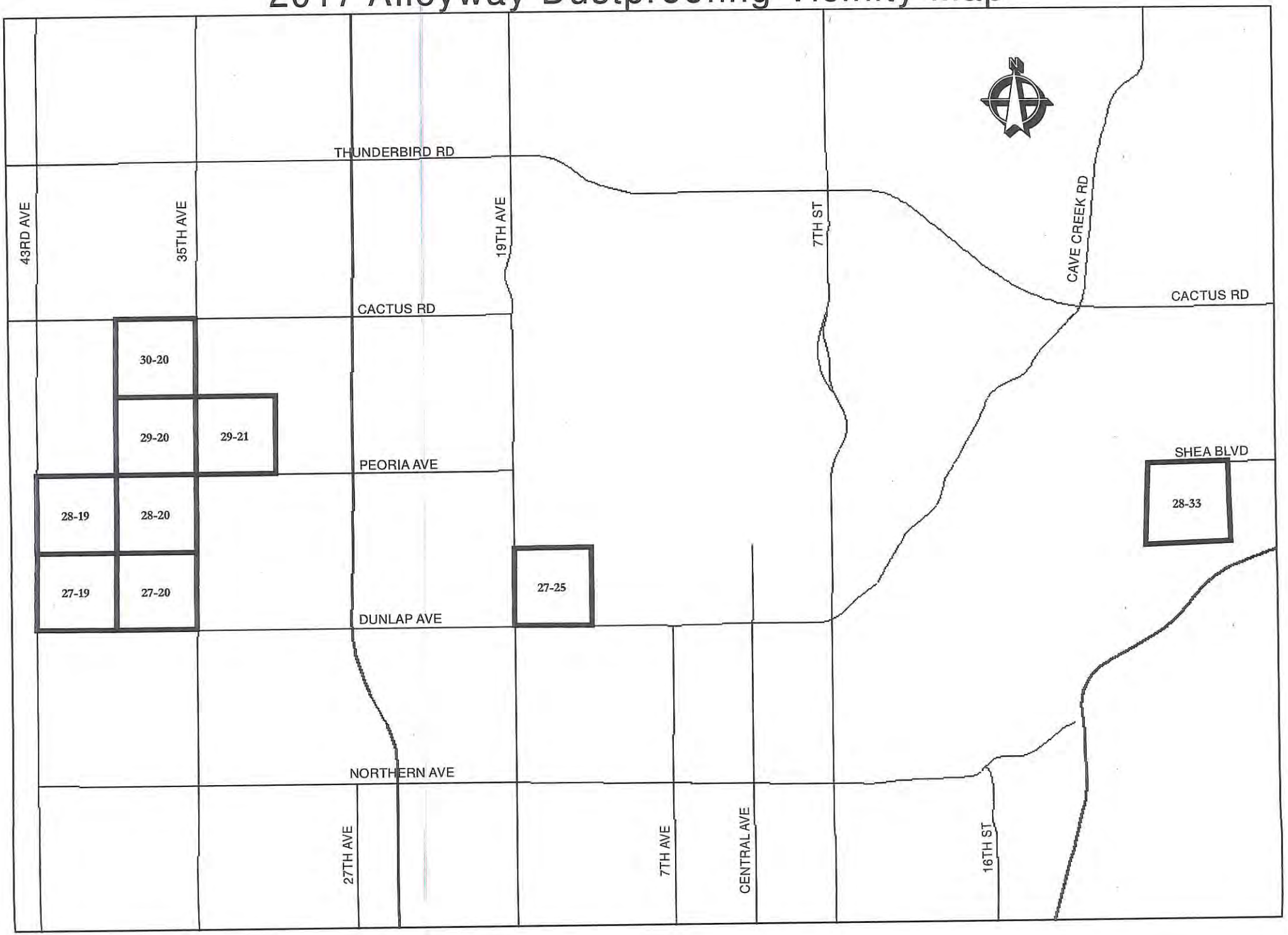
Date: September 18, 2012

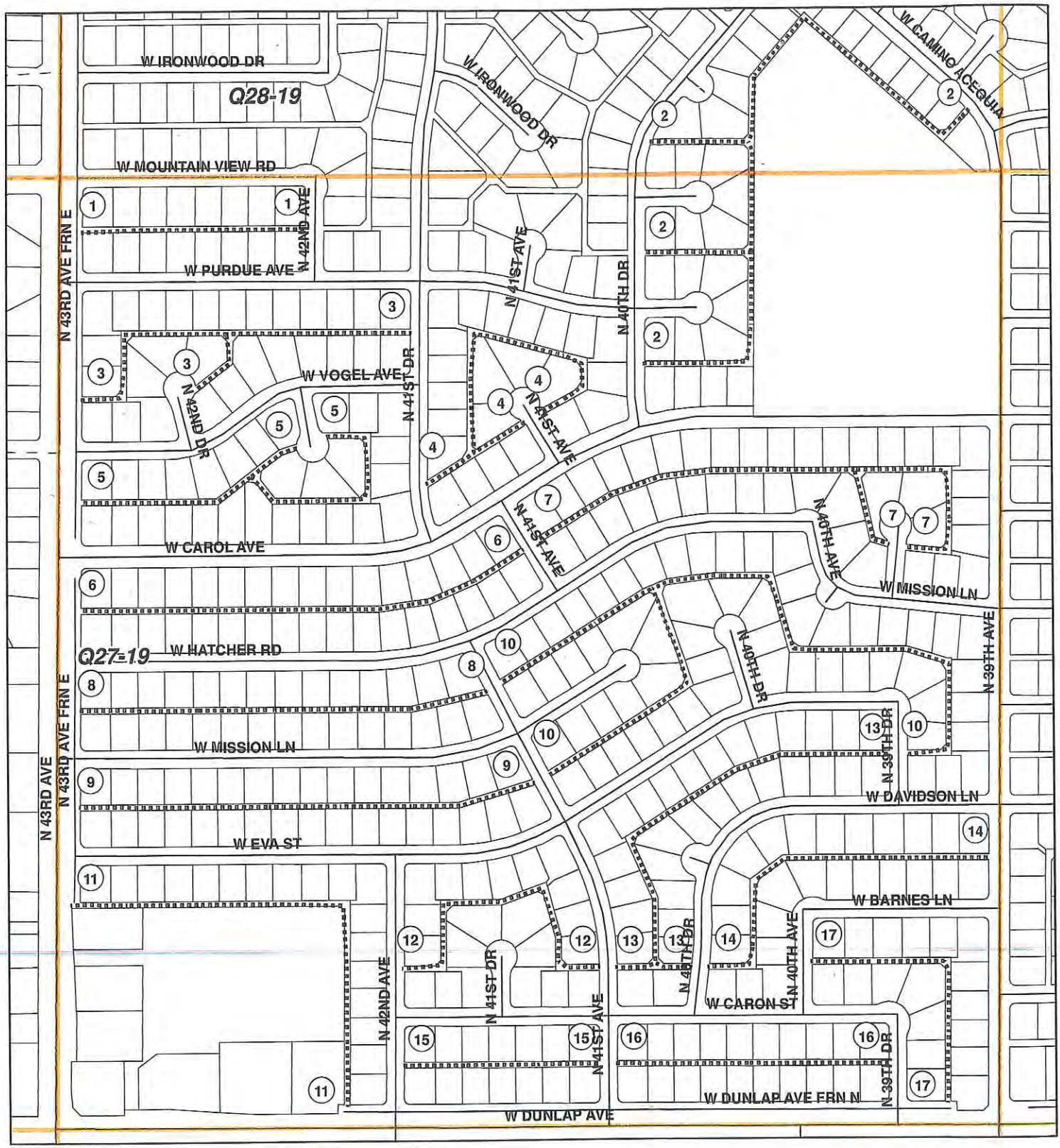
Checklist - OPTIONAL

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

2017 Alleyway Dustproofing Vicinity Map





Alleys
Private Streets
Phoenix Streets
Freeways
SRP Laterals
Canals
Historic Properties
Quarter Sections

Quarter Section 27-19
Alley (Miles) 4.10

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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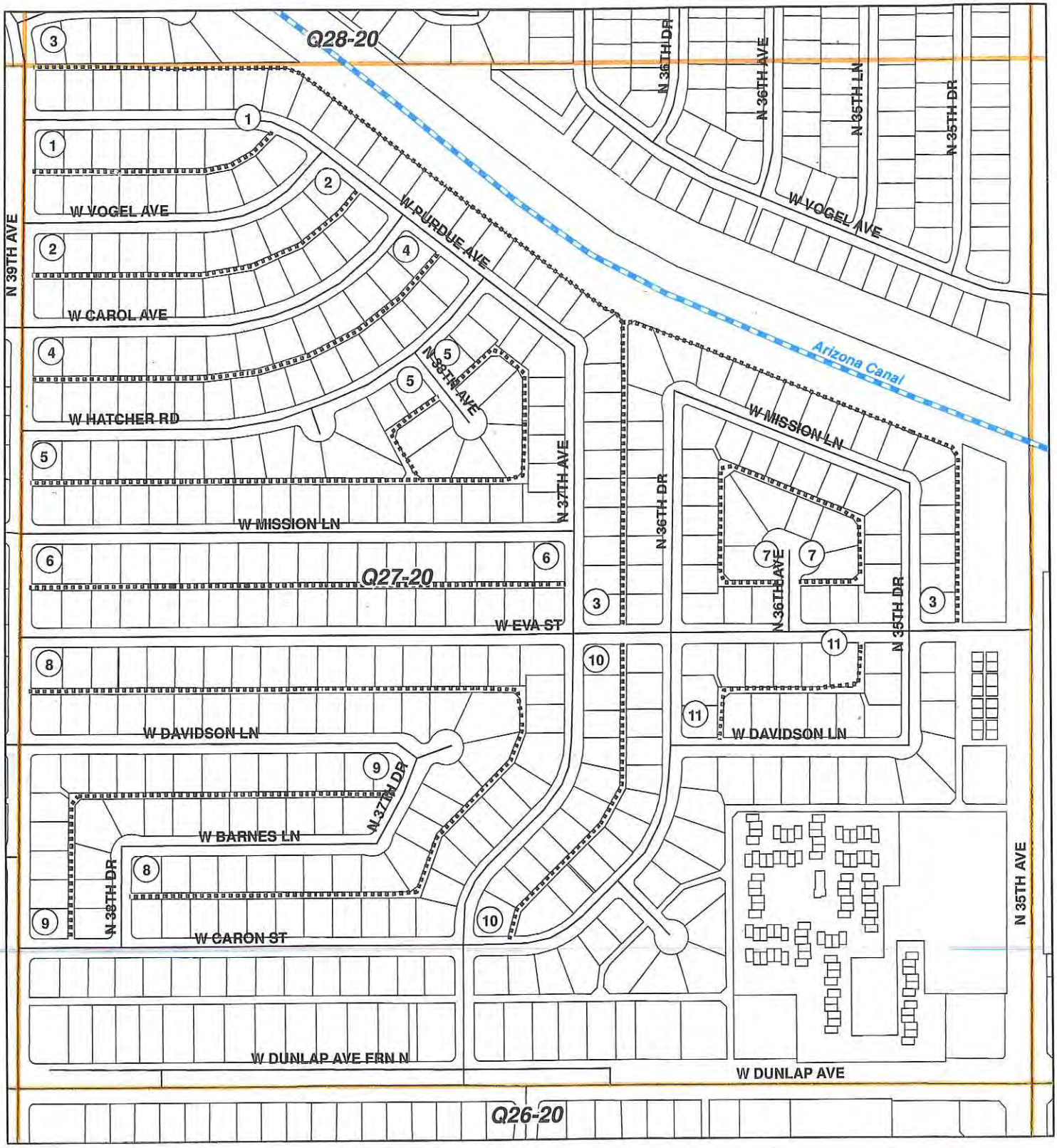

Alleys
Private Streets
Phoenix Streets
Freeways
SRP Laterals
Canals
Historic Properties
Quarter Sections

Quarter Section 27-20
Alley (Miles) 3.15

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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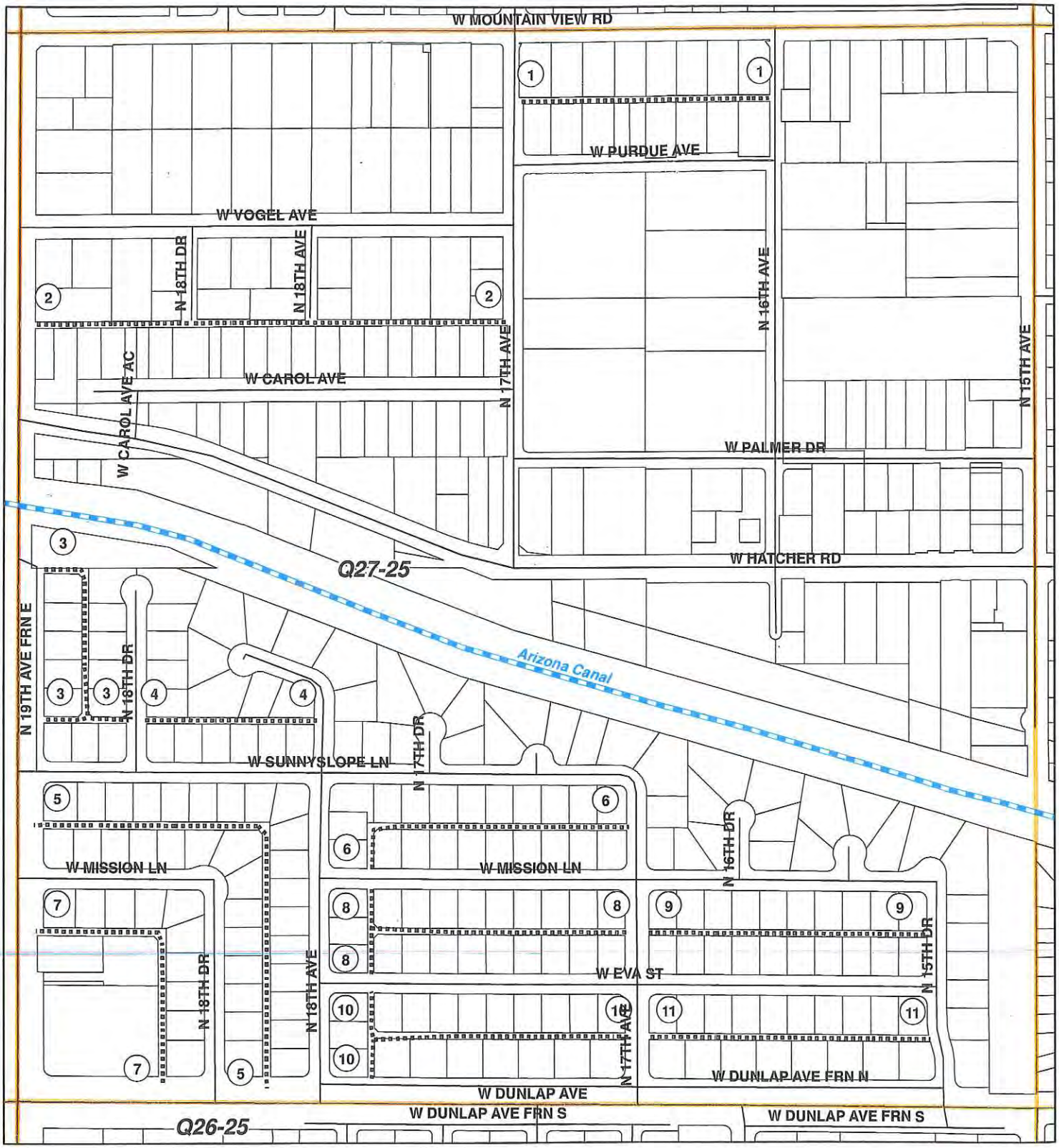

- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section 27-25
Alley (Miles) 1.65

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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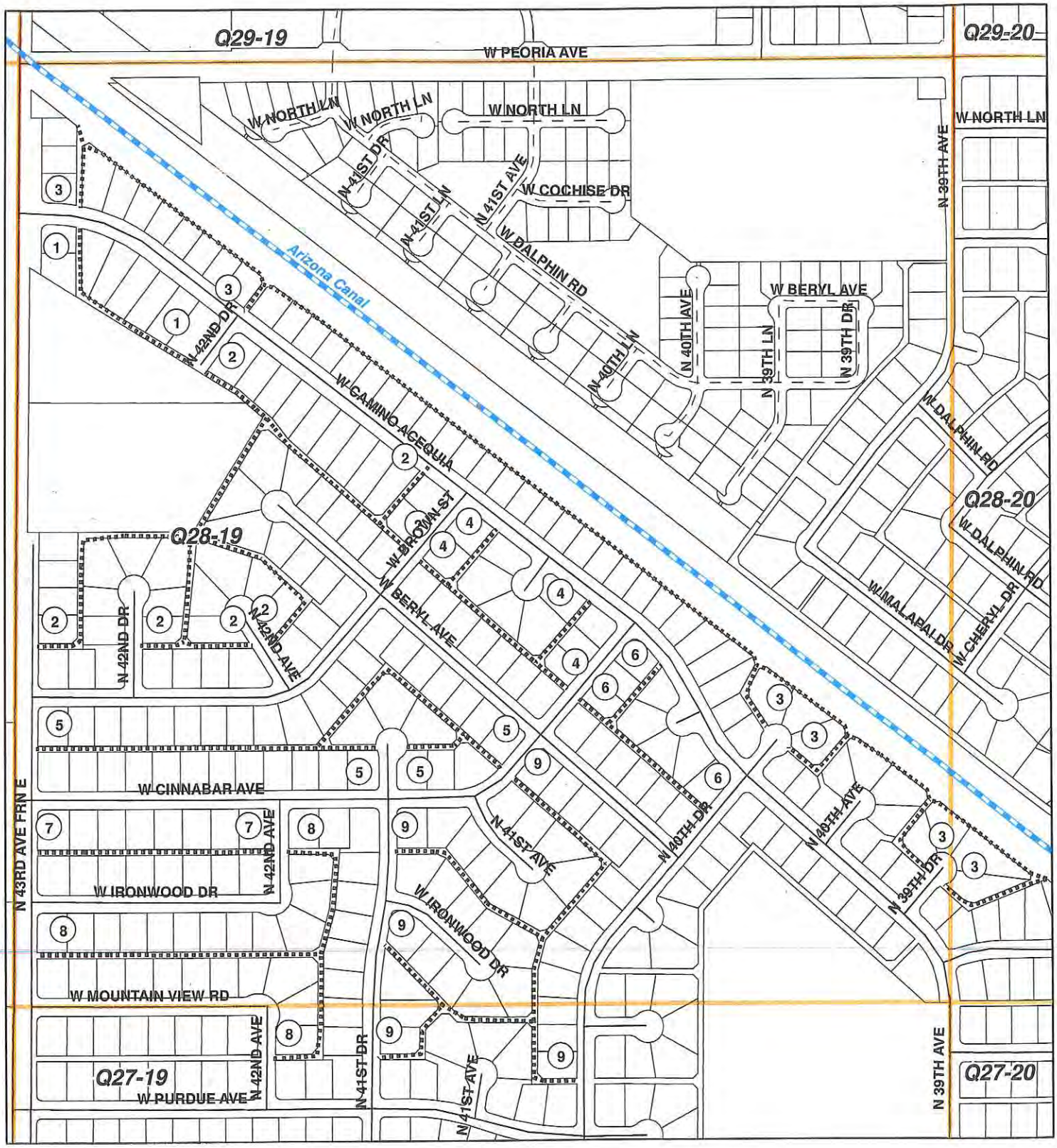

Alleys
Private Streets
Phoenix Streets
Freeways
SRP Laterals
Canals
Historic Properties
Quarter Sections

Quarter Section 28-19
Alley (Miles) 3.19

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section	**28-20**
Alley (Miles)	**2.93**

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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Alleys
Private Streets
Phoenix Streets
Freeways
SRP Laterals
Canals
Historic Properties
Quarter Sections

Quarter Section	**28-33**
Alley (Miles)	**3.93**

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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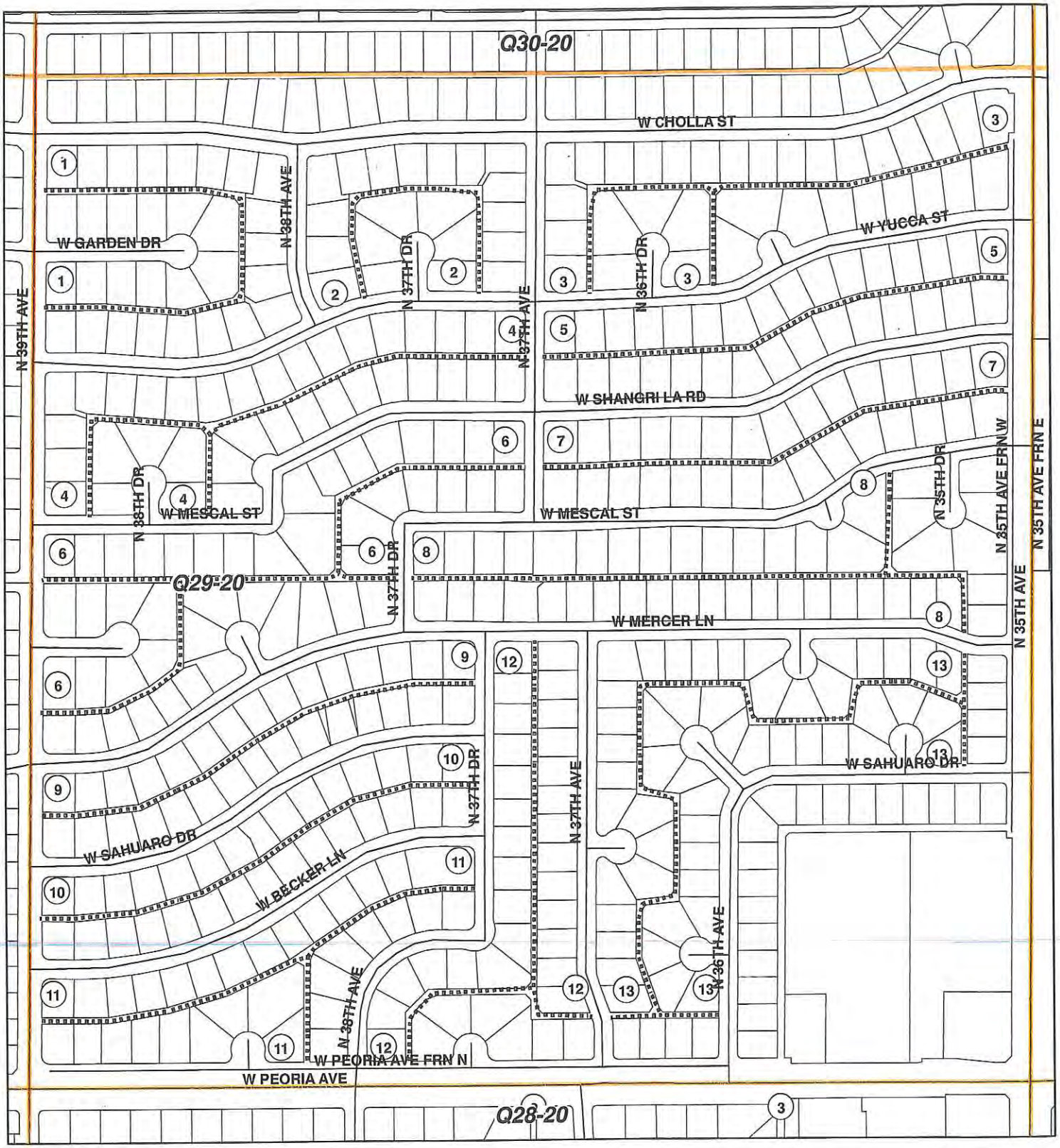

Alleys
Private Streets
Phoenix Streets
Freeways
SRP Laterals
Canals
Historic Properties
Quarter Sections

Quarter Section 29-20
Alley (Miles) 3.83

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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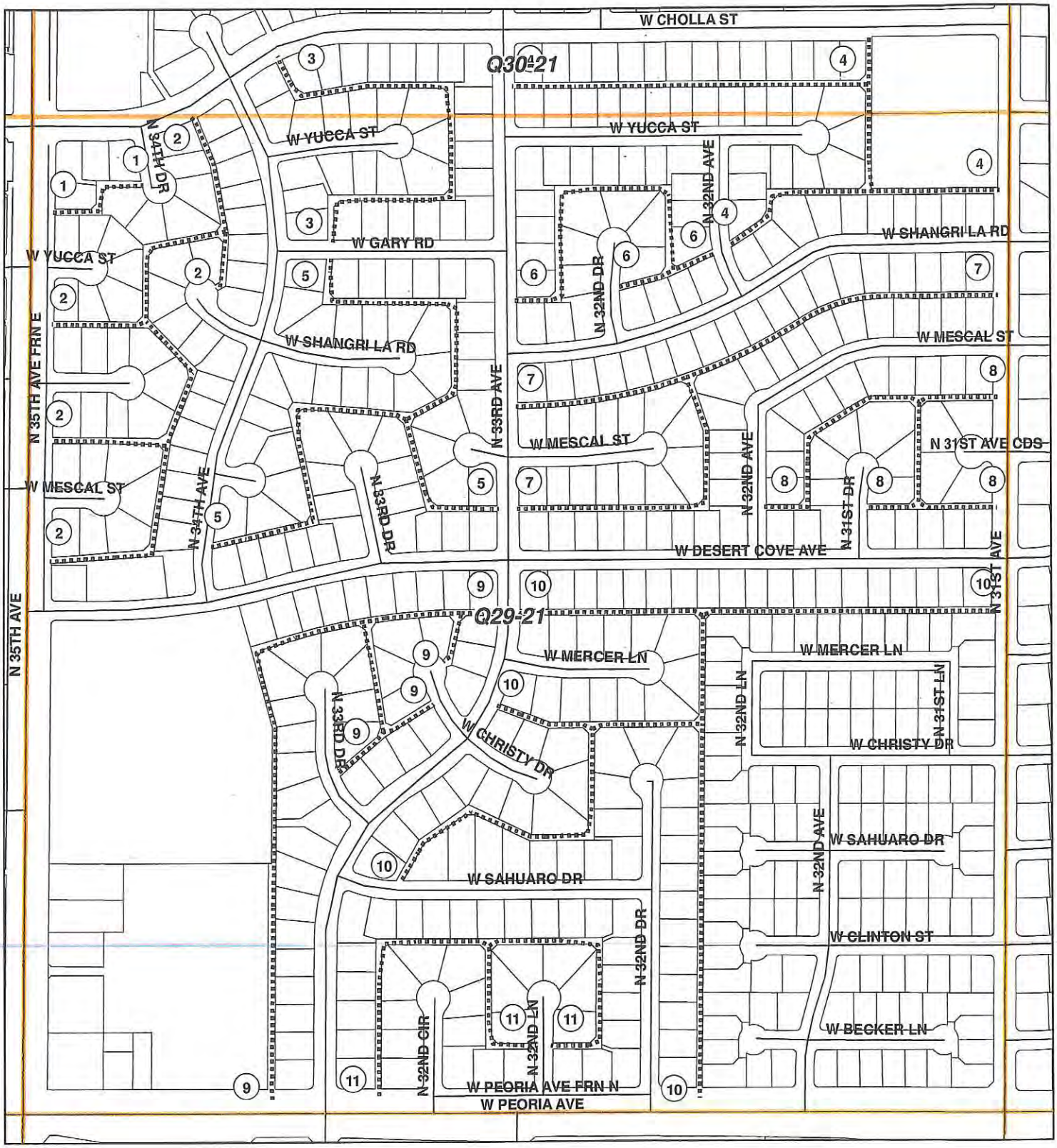

Alleys
Private Streets
Phoenix Streets
Freeways
SRP Laterals
Canals
Historic Properties
Quarter Sections

Quarter Section 29-21
Alley (Miles) 4.05

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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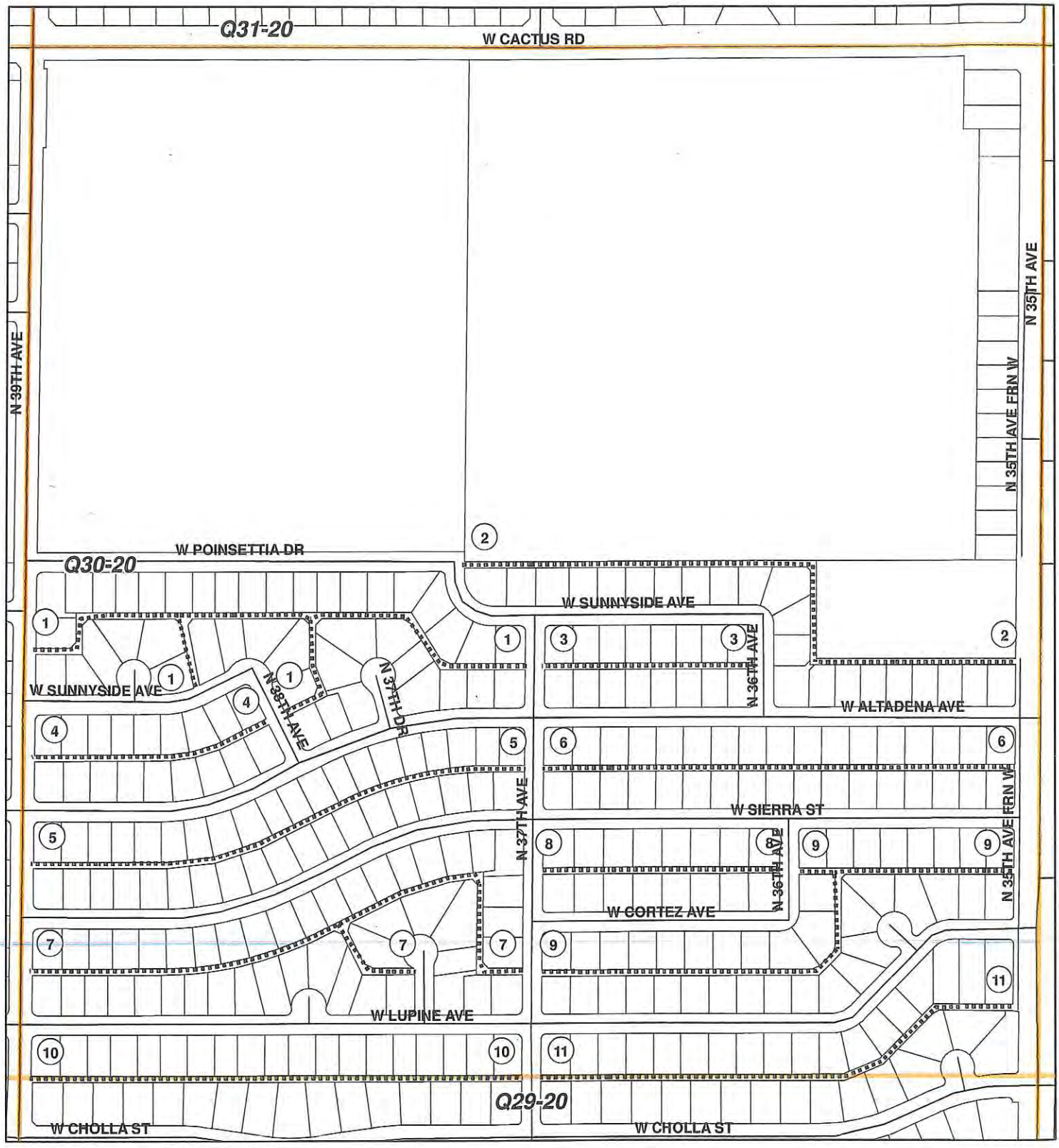

- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section 30-20
Alley (Miles) 2.63

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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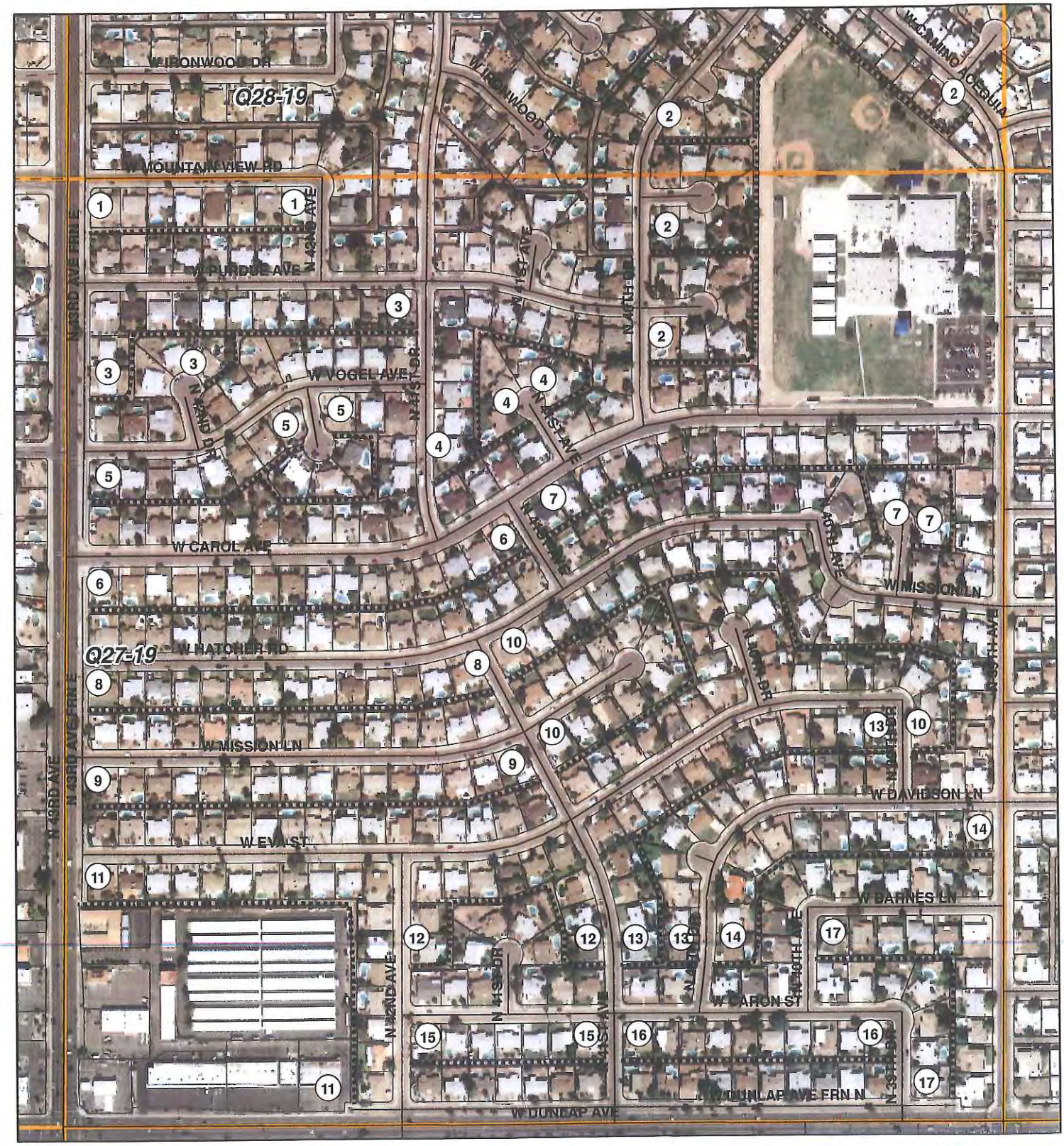

Alleys
Private Streets
Phoenix Streets
Freeways
SRP Laterals
Canals
Historic Properties
Quarter Sections

Quarter Section 27-19
Alley (Miles) 4.10

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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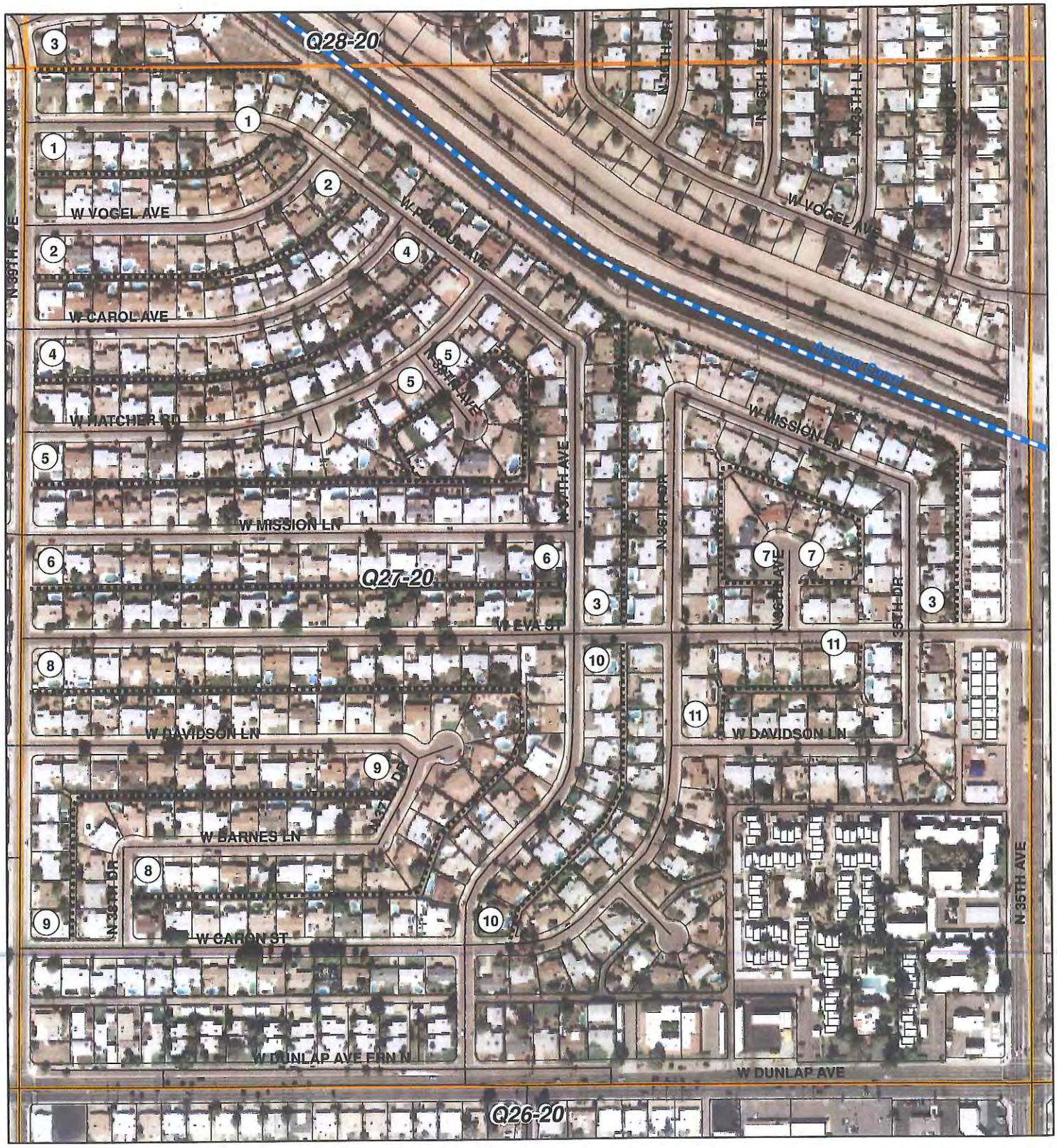

- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section 27-20
Alley (Miles) 3.15

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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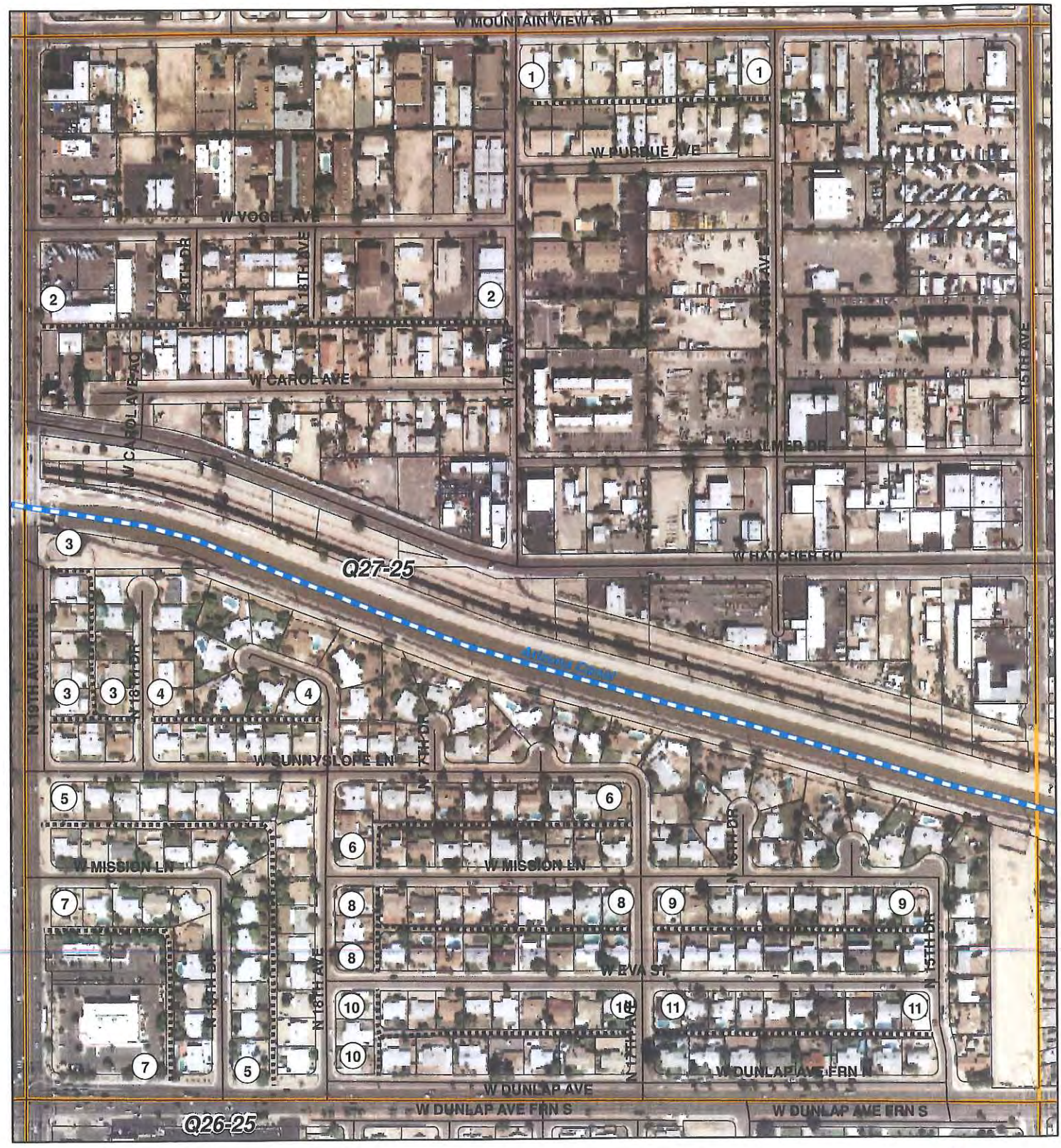

- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section	**27-25**
Alley (Miles)	**1.65**

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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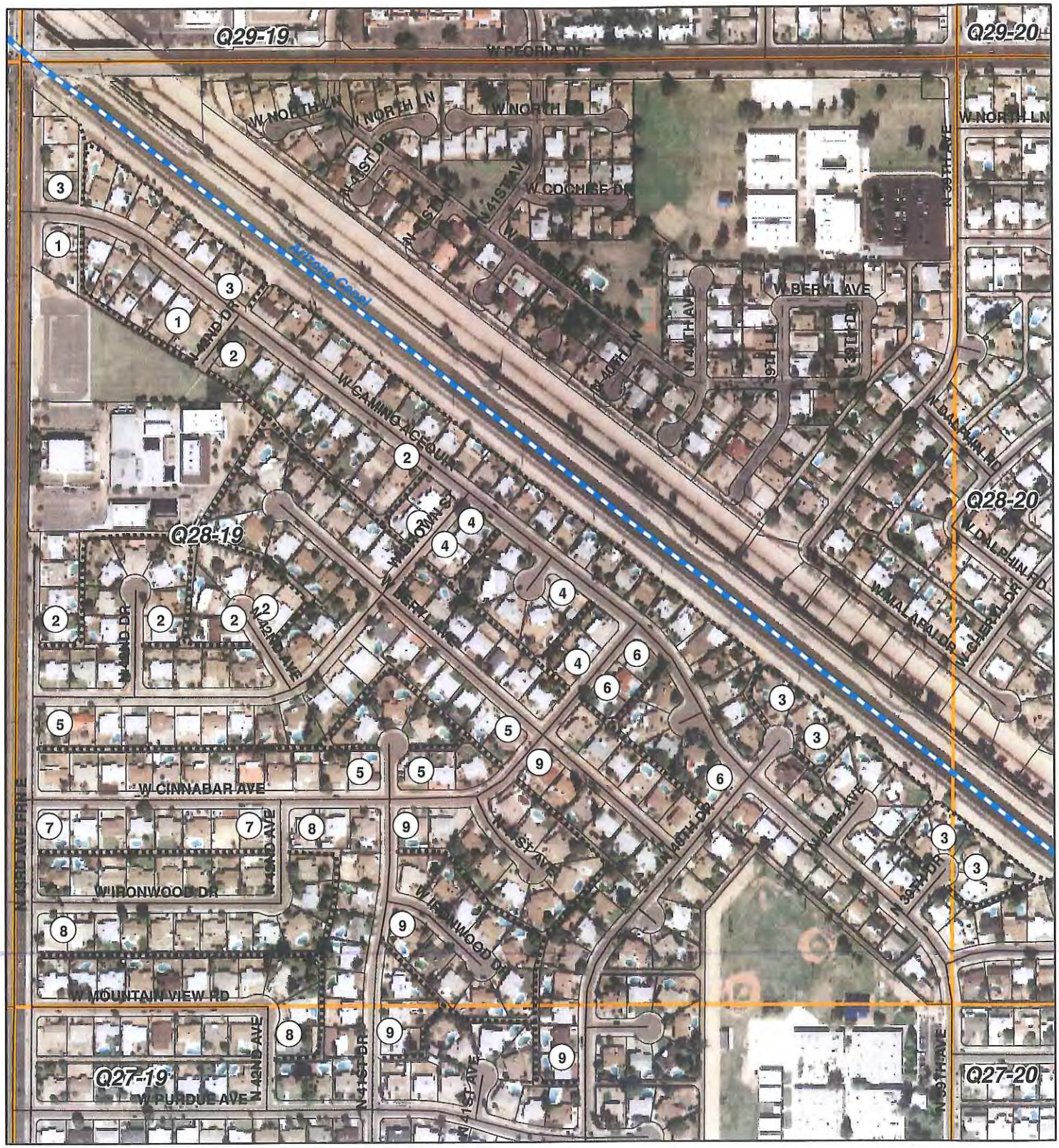

- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section 28-19
Alley (Miles) 3.19

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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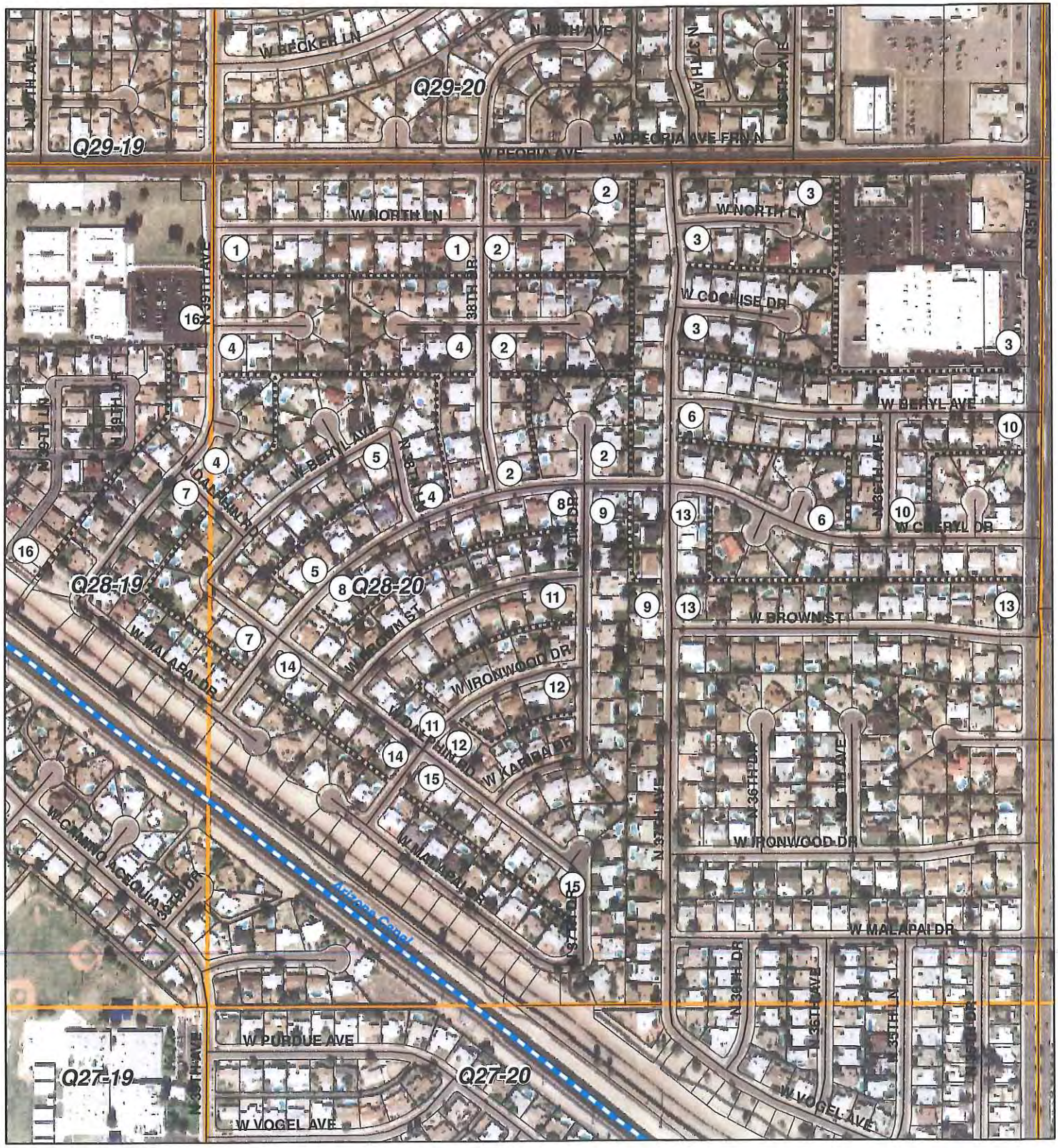

- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section 28-20
Alley (Miles) 2.93

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section	**28-33**
Alley (Miles)	**3.93**

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section	**29-20**
Alley (Miles)	**3.83**

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section	**29-21**
Alley (Miles)	**4.05**

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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- Alleys
- Private Streets
- Phoenix Streets
- Freeways
- SRP Laterals
- Canals
- Historic Properties
- Quarter Sections

Quarter Section	**30-20**
Alley (Miles)	**2.63**

N

City of Phoenix
Street Transportation Department
Street Maintenance Division

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2015 CMAQ Pave Dirt Alleys Program

City of Phoenix Project No.: ST874XXXXX
ADOT Project No.: CM-PHX-XXXXXX
TRACS No.:
STIP No.:

Draft EngineersEstimate

								2016				2017			
1	Clearing, Grubbing (MAG201) and Subgrade Preparation (MAG301)	205,717	Sq. Yd	x	$1.48	=	$304,461.16	204132	$1.52	$	310,280.64	205325.3	$1.57	$	322,360.25
2	Replace Unuitable Subgrade Materials (Contingent)	277	CU. YD	x	$33.00	=	$9,141.00	275	33.99	$	9,347.25	276.6759	35.0097	$	9,697.77
3	Uniformed, Off-Duty Police Officers (Contingent)	80	Hrs	x	$45.00	=	$3,600.00	80	46.35	$	3,708.00	80	47.74	$	3,819.20
4	Power Broom (for Dust Control & Prevention per Supplementary Conditions.)	20	Hrs	x	$119.00	=	$2,380.00	20	123	$	2,451.40	20	126	$	2,525.00
5	Weed Control Pre-emerge	205,717	Sq. Yd	x	$0.04	=	$8,228.68	204132	0.04	$	8,165.28	205325.3	0.04	$	8,213.00
6	Weed Control Post-emerge	205,717	Sq. Yd	x	$0.15	=	$30,857.55	204132	0.15	$	30,619.80	205325.3	0.16	$	32,852.00
7	Single Application of MC-800TR & Precoated Chips	188,574	Sq. Yd	x	$5.68	=	$1,071,100.32	187121	5.85	$	1,094,657.85	188214.9	6.03	$	1,134,936.45
8	Traffic Control Devices	1	L.S.	x	$42,893.06	=	$42,893.06	1	44179.85	$	44,179.85	1	45505.25	$	45,505.25
	BASE BID (ITEMS 1 THROUGH 8 - INCLUSIVE)					=	**$1,472,661.77**				**$1,503,410.07**				**$1,559,908.92**
	Design and Environmental and utility clearance						70000				70000				70000
	Total						**$1,542,661.77**				**$1,573,410.07**				**$1,629,908.92**