

Name: PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION
 2023
 Id: CHN-23-PAVING-001
 Agency: Chandler
 This application was signed by Kevin Lair on 9/16/2020
 P.O. Box 4008
 Mail Stop 603
 Chandler, AZ 85224
 (480) 782-2210

Site Visit

Site visit summary.

Name of Person who Completed Site Visit	Luis Gamez
Date of Visit	08/28/2020

Project Description

Summary of the project.

Description of Project	This project mitigates dust by replacing the top 4" to 6" of dirt/older ABC with asphalt millings material. The surfacing material utilized is discarded roadway asphalt milled material that will be recycled and used to create a more dust free driving surface on 10.77 miles of alleys. Alleys are used by homeowners, utility companies and garbage trucks to access backyards, utility boxes and garbage cans on a daily basis. This project will improve the alley surface, improve the air quality and reuse/recycle material that is considered discarded from other projects.
Number of Segments in Project	4
Project is in Nonattainment Area	Yes

COST ESTIMATE SUMMARY

Program Phase	Location	Work	Year	CMAQ	Local	Total	Local Share
Design, excludes ADOT review fees	Please see attached Maps in Segments	Alley Rehabilitation (10.36 miles)	2023	5,658	342	6,000	5.7%
Construction, may include utilities	Please see attached Maps in Segments	Alley Rehabilitation (10.36 miles)	2023	1,391,487	84,109	1,475,596	5.7%

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Segment 1

Proposed Improvements

Summary of the improvements proposed for the segment

Type of Paving Project	Alley
Work to be Performed	The process will include removing the existing dirt surface to a depth of about 4" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Vertical Alignment Changes	None
Horizontal Alignment Changes	None
Design Speed After Construction	0
Describe the type of Paving	Four to Six inches of compacted asphalt millings.
Other Improvements to Include	
Describe the Non-paving Improvements	The process will include removing the existing dirt surface to a depth of about 4" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Number of Unpaved Access Points to be Paved	0

Segment Description

Summary of Segment

Segment Location	See Attached Maps FMA 25 Segment 1
Segment Length	4.21
Within 4 Miles of PM10 Monitor	Yes
List of Nearby Monitors	West Chandler
Current Surface Condition	Top 4" to 6" of surface of the Alley is mixed with dirt and gravel. In rain storm events it makes the alleys muddy and difficult to travel.
Description of Traffic	Alleys are used by homeowners, utility companies and garbage trucks to access backyards, utility boxes and garbage cans on daily basis.
Average Daily Traffic	4
Average Daily Traffic Methodology	Estimated based on known maintenance, utility, solid waste, residential, access.
Environmental Clearance	NONE
Current Right of Way	Agency owns all ROW needed
Right of Way Issues	None

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Current Utilities	Power Lines and Cables Pipelines, Sewer, and Water
Other Utility Conflicts	None. Manholes or water valves may need to be adjusted to finish grade.

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Segment 2

Proposed Improvements

Summary of the improvements proposed for the segment

Type of Paving Project	Alley
Work to be Performed	The process will include removing the existing dirt surface to a depth of about 4" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Vertical Alignment Changes	None
Horizontal Alignment Changes	None
Design Speed After Construction	0
Describe the type of Paving	Four to Six inches of compacted asphalt millings.
Other Improvements to Include	
Describe the Non-paving Improvements	The process will include removing the existing dirt surface to a depth of about 4" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Number of Unpaved Access Points to be Paved	0

Segment Description

Summary of Segment

Segment Location	See Attached Maps FMA 40 Segment 2
Segment Length	4.7
Within 4 Miles of PM10 Monitor	Yes
List of Nearby Monitors	West Chandler
Current Surface Condition	Top 4" to 6" of surface of the Alley is mixed with dirt and gravel. In rain storm events it makes the alleys muddy and difficult to travel.
Description of Traffic	Alleys are used by homeowners, utility companies and garbage trucks to access backyards, utility boxes and garbage cans on daily basis.
Average Daily Traffic	4
Average Daily Traffic Methodology	Estimated based on known maintenance, utility, solid waste, residential, access.
Environmental Clearance	None
Current Right of Way	Agency owns all ROW needed
Right of Way Issues	

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Current Utilities	Power Lines and Cables Pipelines, Sewer, and Water
Other Utility Conflicts	None. Manholes or water valves may need to be adjusted to finish grade.

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Segment 3

Proposed Improvements

Summary of the improvements proposed for the segment

Type of Paving Project	Alley
Work to be Performed	The process will include removing the existing dirt surface to a depth of about 4" to 6" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Vertical Alignment Changes	None
Horizontal Alignment Changes	None
Design Speed After Construction	0
Describe the type of Paving	Four to Six inches of compacted asphalt millings.
Other Improvements to Include	
Describe the Non-paving Improvements	The process will include removing the existing dirt surface to a depth of about 4" to 6" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Number of Unpaved Access Points to be Paved	0

Segment Description

Summary of Segment

Segment Location	See Attached Maps FMA 16 Segment 3
Segment Length	1.61
Within 4 Miles of PM10 Monitor	Yes
List of Nearby Monitors	West Chandler
Current Surface Condition	Top 4" to 6" of surface of the Alley is mixed with dirt and gravel. In rain storm events it makes the alleys muddy and difficult to travel.
Description of Traffic	Alleys are used by homeowners, utility companies and garbage trucks to access backyards, utility boxes and garbage cans on daily basis.
Average Daily Traffic	4
Average Daily Traffic Methodology	Estimated based on known maintenance, utility, solid waste, residential, access.
Environmental Clearance	None
Current Right of Way	Agency owns all ROW needed
Right of Way Issues	

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Current Utilities	Power Lines and Cables Pipelines, Sewer, and Water
Other Utility Conflicts	None. Manholes or water valves may need to be adjusted to finish grade.

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Segment 4

Proposed Improvements

Summary of the improvements proposed for the segment

Type of Paving Project	Alley
Work to be Performed	The process will include removing the existing dirt surface to a depth of about 4" to 6" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Vertical Alignment Changes	None
Horizontal Alignment Changes	None
Design Speed After Construction	0
Describe the type of Paving	Four to Six inches of compacted asphalt millings
Other Improvements to Include	
Describe the Non-paving Improvements	The process will include removing the existing dirt surface to a depth of about 4" to 6" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Number of Unpaved Access Points to be Paved	0

Segment Description

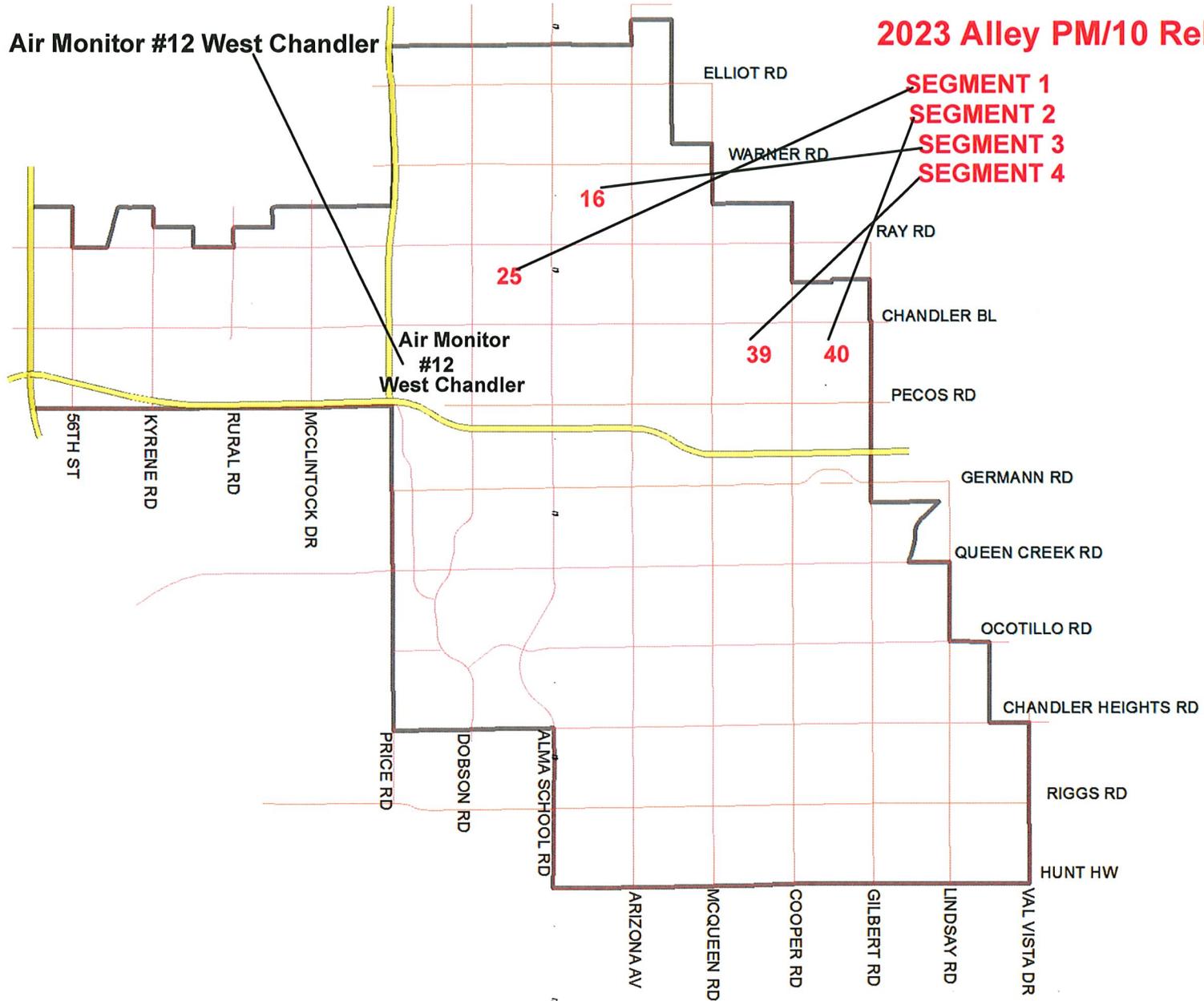
Summary of Segment

Segment Location	See Attached Maps FMA 39 Segment 4
Segment Length	0.25
Within 4 Miles of PM10 Monitor	Yes
List of Nearby Monitors	West Chandler
Current Surface Condition	Top 4" to 6" of surface of the Alley is mixed with dirt and gravel. In rain storm events it makes the alleys muddy and difficult to travel.
Description of Traffic	Alleys are used by homeowners, utility companies and garbage trucks to access backyards, utility boxes and garbage cans on daily basis.
Average Daily Traffic	4
Average Daily Traffic Methodology	Estimated based on known maintenance, utility, solid waste, residential, access.
Environmental Clearance	None
Current Right of Way	Agency owns all ROW needed
Right of Way Issues	

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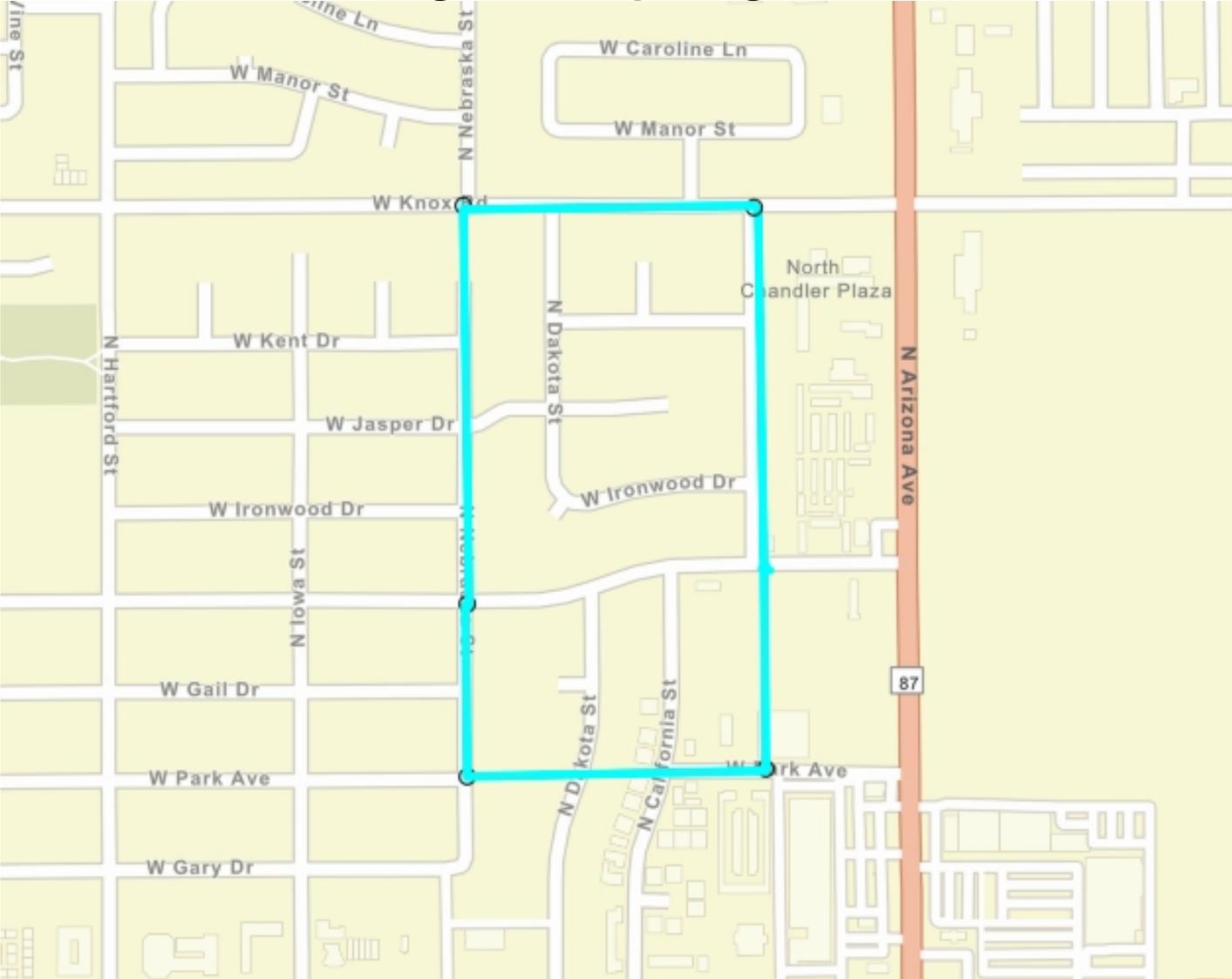
Current Utilities	Power Lines and Cables Pipelines, Sewer, and Water
Other Utility Conflicts	None. Manholes or water valves may need to be adjusted to finish grade.

2023 Alley PM/10 Rehab

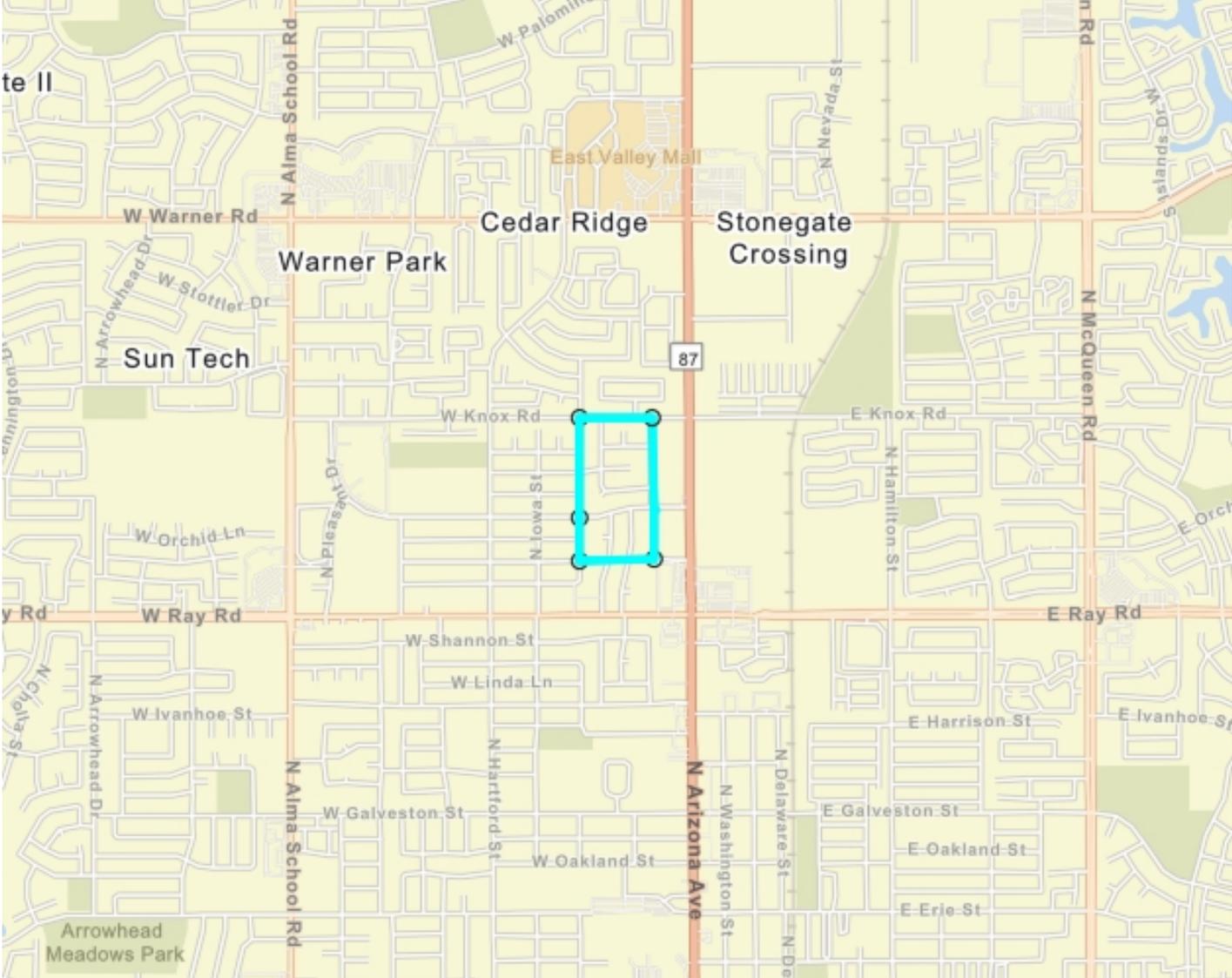




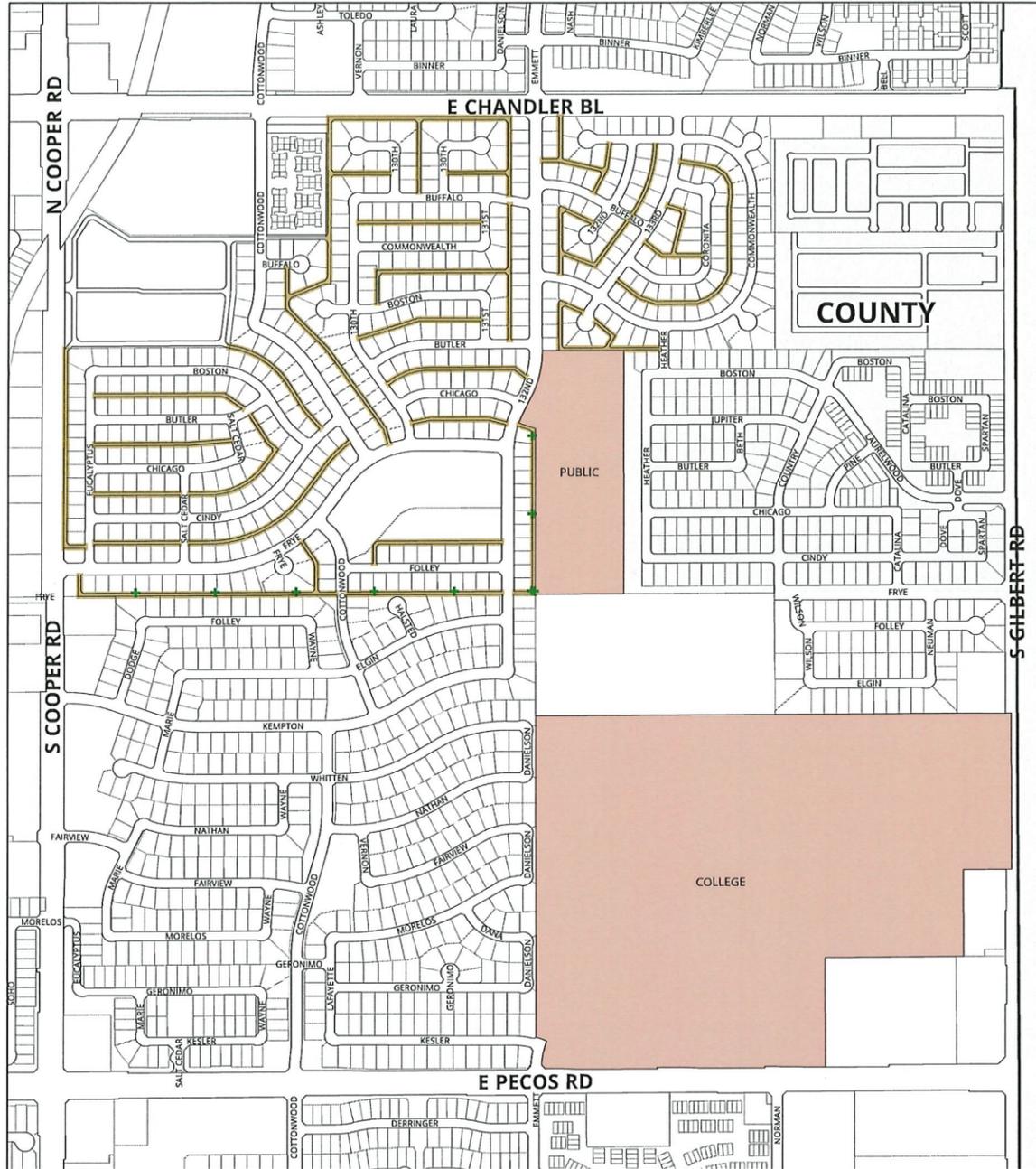
Segment Map - Segement 3



Zoomed Out Segment Map - Segment 3



2023 ALLEY PM/10 REHAB SEGMENT 2



- ◆ 2023/2024 SURVEY MONUMENT
- ◇ 2023/2024 BRASS CAP
- 2023/2024 WATER VALVE
- ▲ 2023/2024 SEWER CLEANOUT
- ⊕ 2023/2024 SEWER MANHOLE
- 2023/2024 STORM DRAIN
- 2023/2024, ALLEY PM10 REHAB
- SCHOOL SITE

FMA PAGE 40	
FEATURE	COUNT
SURVEY MONUMENT	0
BRASS CAP	0
SEWER MANHOLE	9
SEWER CLEANOUT	0
STORM DRAIN	0
WATER VALVES	0

NOTE:
THE CITY OF CHANDLER IS NOT RESPONSIBLE FOR EXACT UTILITY REPRESENTATION OR LOCATIONS PROVIDED ON THESE MAPS.

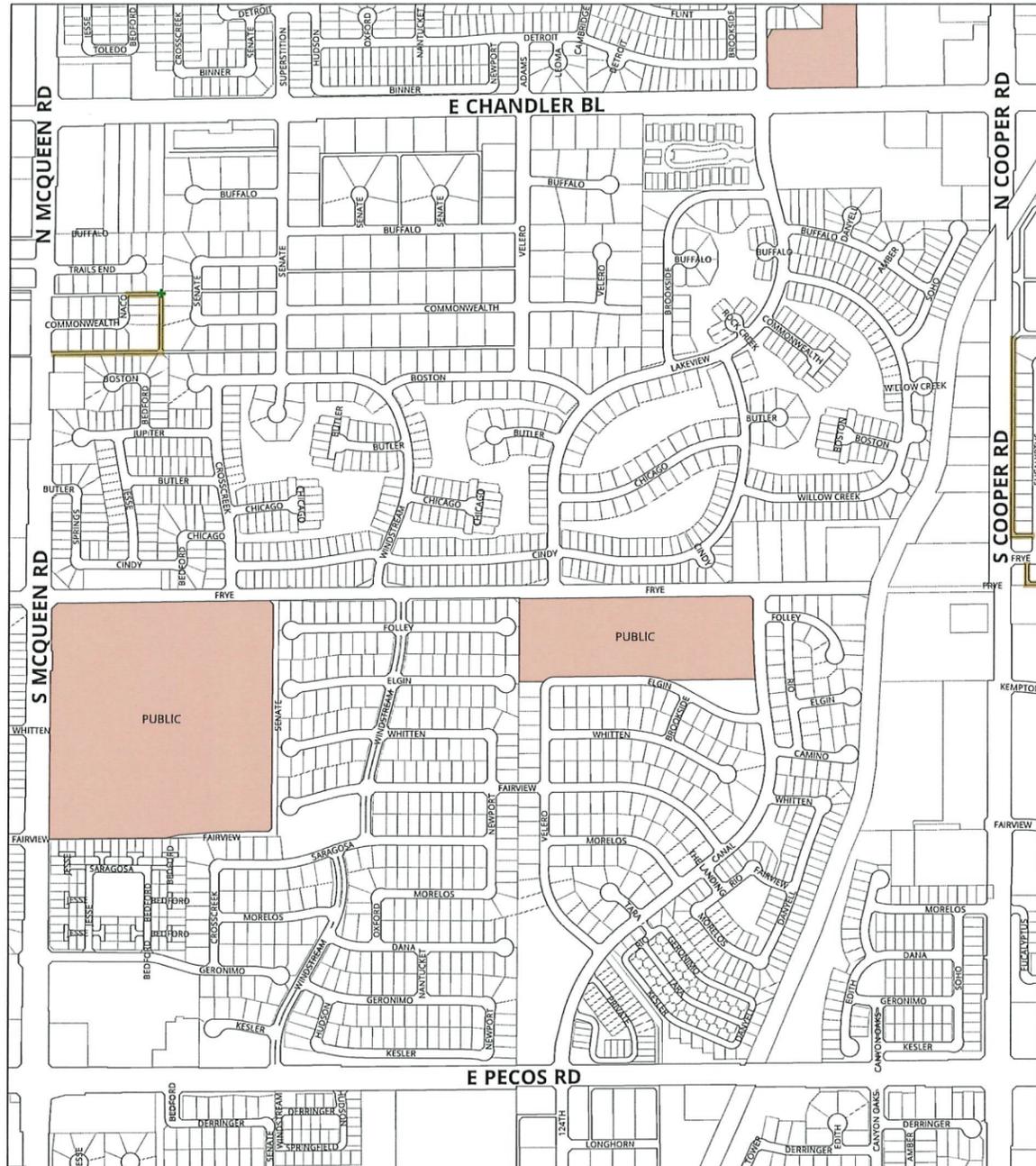
Alley Mileage: 4.70 Miles

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2023 ALLEY PM/10 REHAB SEGMENT 4



- ◆ 2023/2024 SURVEY MONUMENT
- ◇ 2023/2024 BRASS CAP
- 2023/2024 WATER VALVE
- ▲ 2023/2024 SEWER CLEANOUT
- ⊕ 2023/2024 SEWER MANHOLE
- 2023/2024 STORM DRAIN
- ▬ 2023/2024, ALLEY PM10 REHAB
- SCHOOL SITE

FMA PAGE 39	
FEATURE	COUNT
SURVEY MONUMENT	0
BRASS CAP	0
SEWER MANHOLE	1
SEWER CLEANOUT	0
STORM DRAIN	0
WATER VALVES	0

NOTE:
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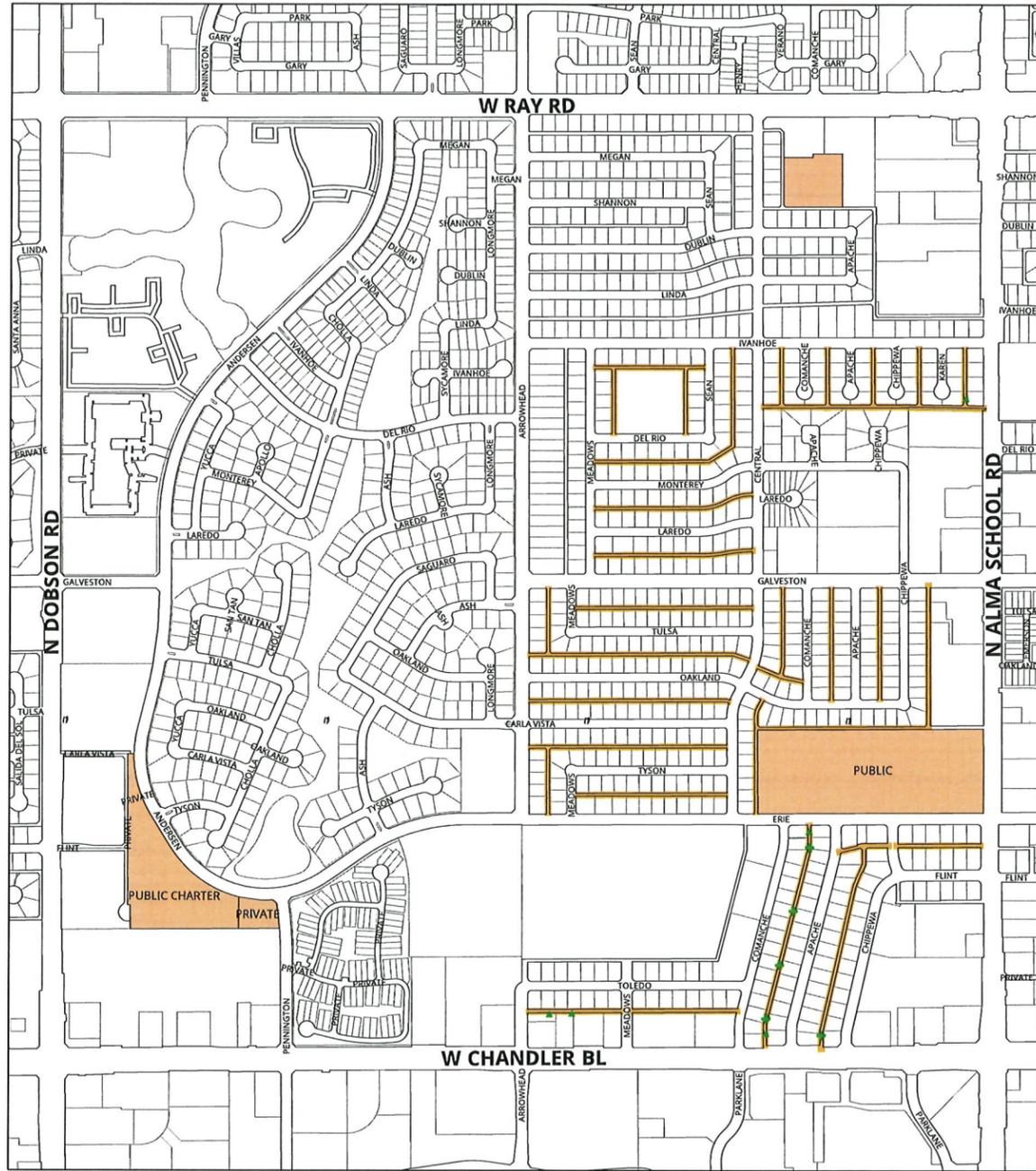
Alley Mileage: 0.25 Miles

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2023 ALLEY PM/10 REHAB SEGMENT 1



- ◆ 2023/2024 SURVEY MONUMENT
- ◇ 2023/2024 BRASS CAP
- 2023/2024 WATER VALVE
- ▲ 2023/2024 SEWER CLEANOUT
- ⊕ 2023/2024 SEWER MANHOLE
- 2023/2024 STORM DRAIN
- ▬ 2023/2024, ALLEY PM10 REHAB
- SCHOOL SITE

FMA PAGE 25	
FEATURE	COUNT
SURVEY MONUMENT	0
BRASS CAP	0
SEWER MANHOLE	6
SEWER CLEANOUT	6
STORM DRAIN	0
WATER VALVES	0

Attachment 4

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Alley Mileage: 4.21 Miles

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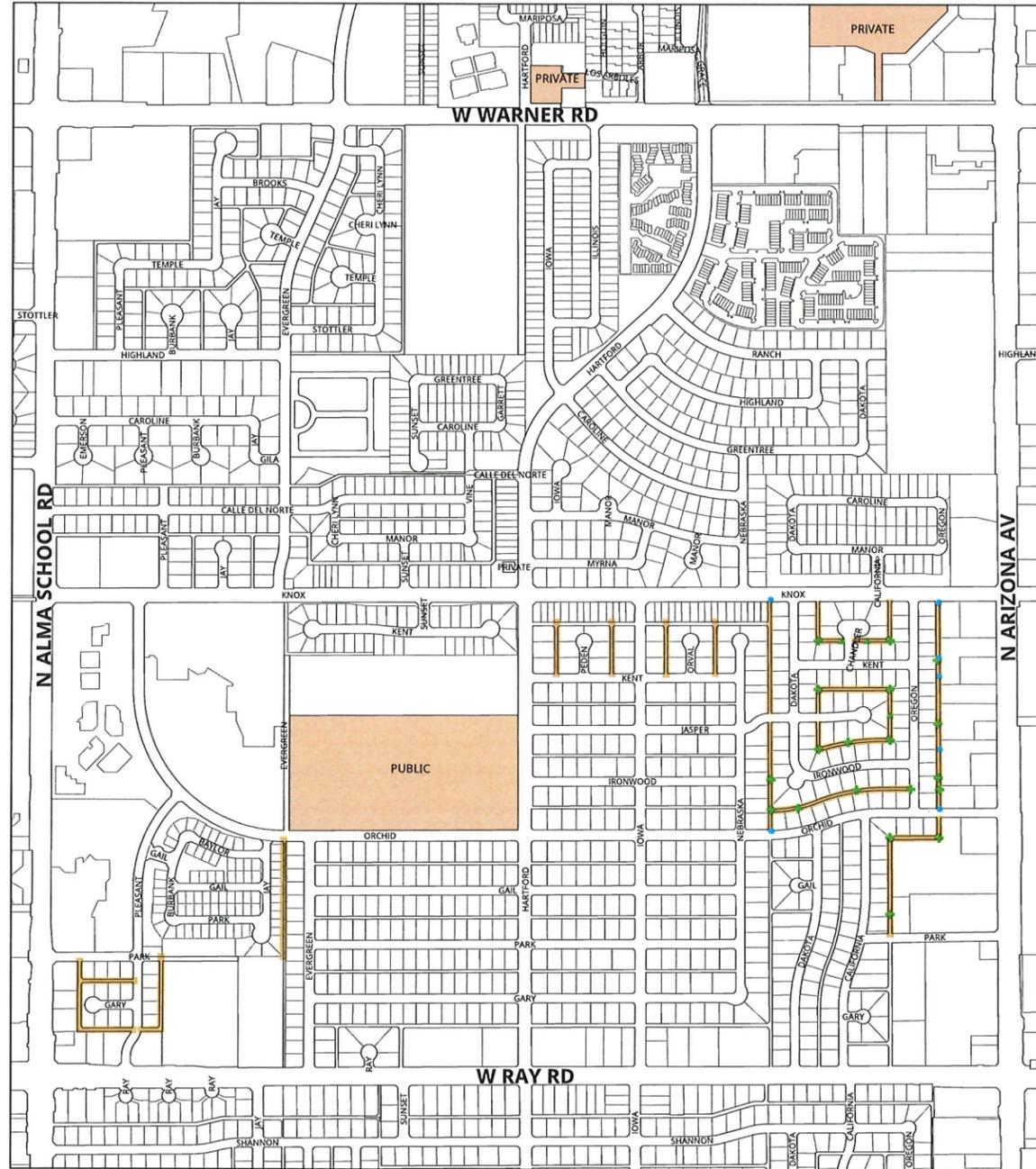








2023 ALLEY PM/10 REHAB SEGMENT 3



- ◆ 2023/2024 SURVEY MONUMENT
- ◇ 2023/2024 BRASS CAP
- 2023/2024 WATER VALVE
- ▲ 2023/2024 SEWER CLEANOUT
- ✦ 2023/2024 SEWER MANHOLE
- 2023/2024 STORM DRAIN
- 2023/2024, ALLEY PM10 REHAB
- SCHOOL SITE

FMA PAGE 16	
FEATURE	COUNT
SURVEY MONUMENT	0
BRASS CAP	0
SEWER MANHOLE	19
SEWER CLEANOUT	3
STORM DRAIN	0
WATER VALVES	9

NOTE:
THE CITY OF CHANDLER IS NOT RESPONSIBLE
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OR LOCATIONS PROVIDED ON THESE MAPS.

Alley Mileage: 1.61 Miles

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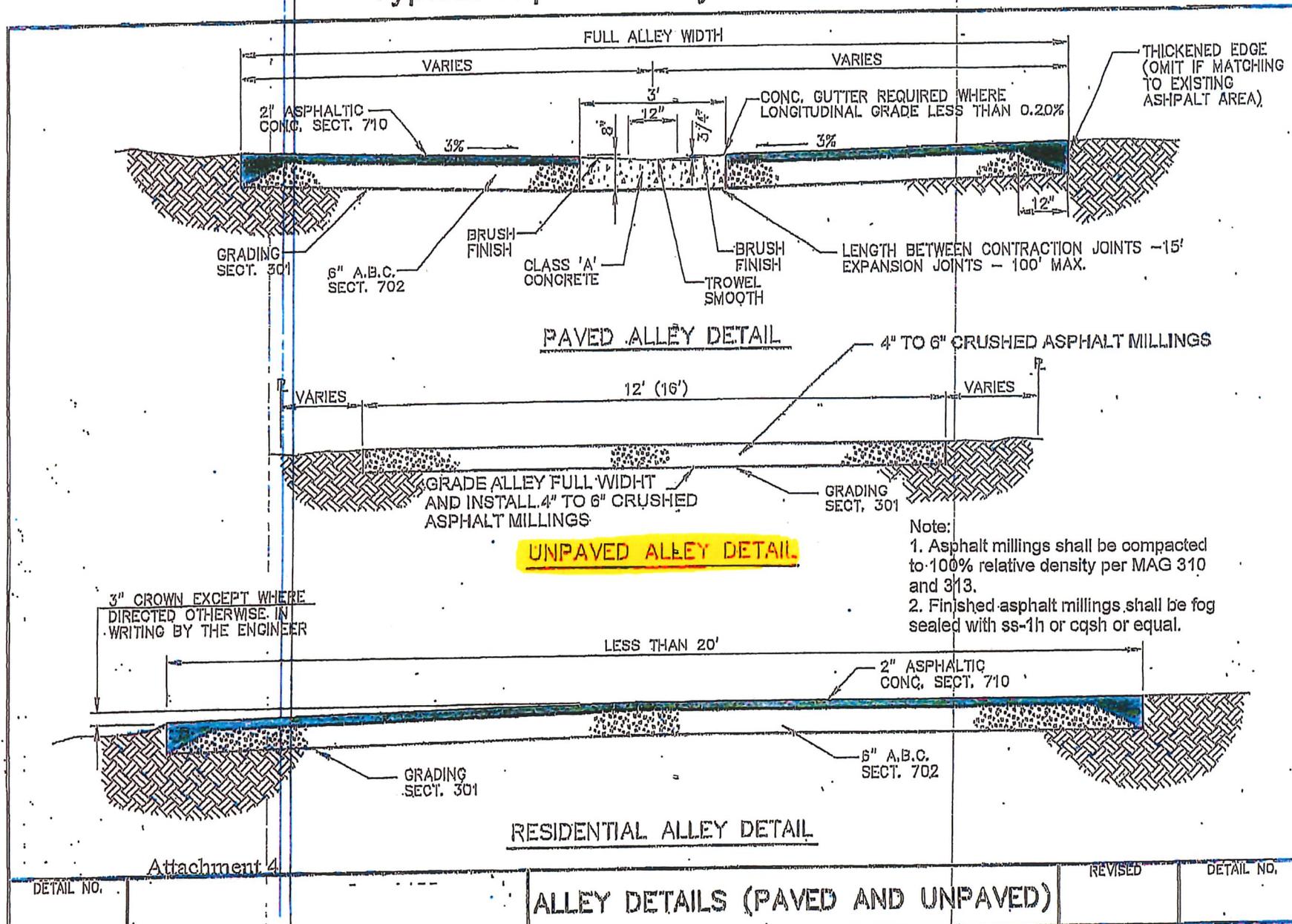






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Typical Unpaved Alley Cross Section



Attachment 4

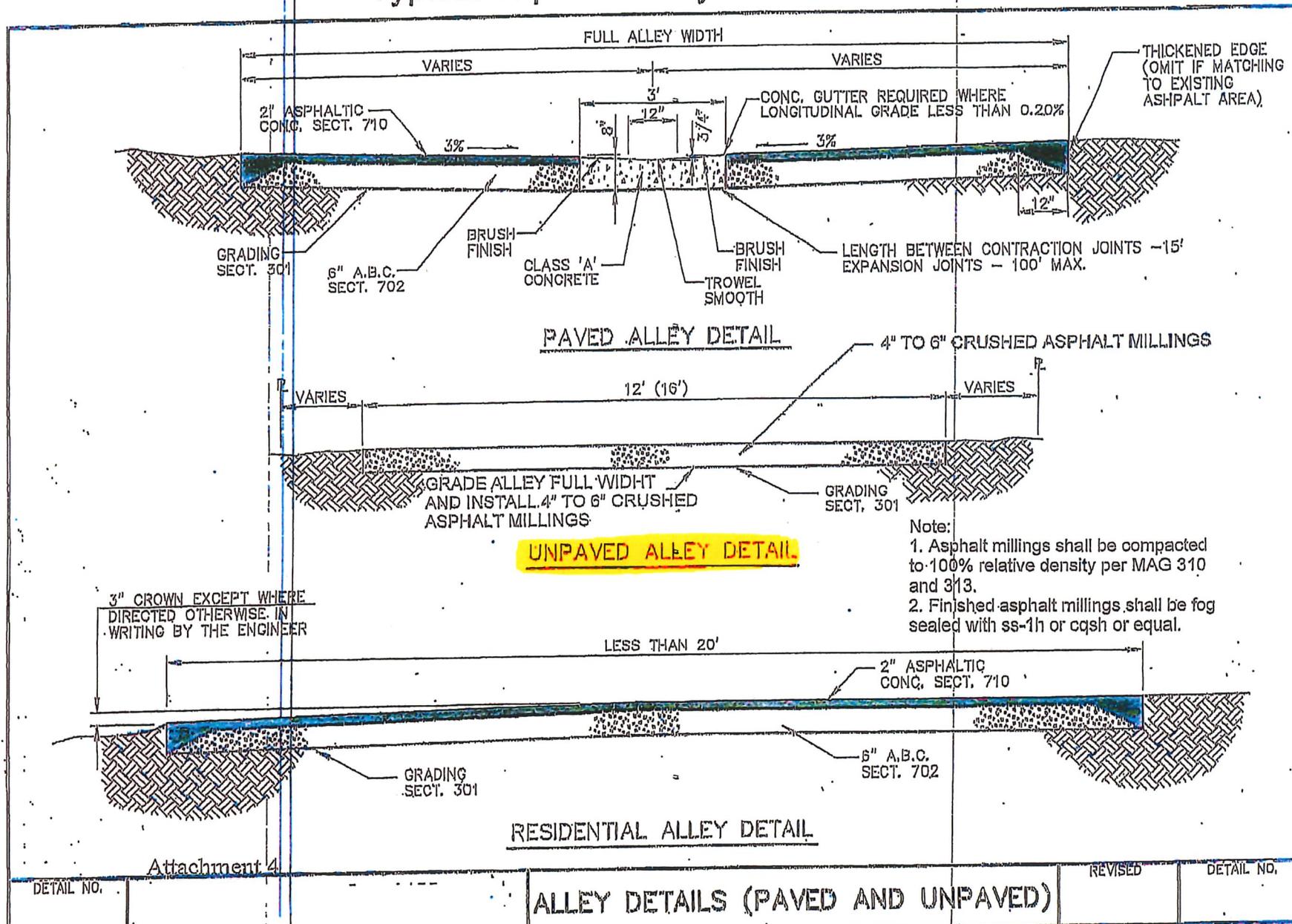
DETAIL NO.

ALLEY DETAILS (PAVED AND UNPAVED)

REVISED

DETAIL NO.

Typical Unpaved Alley Cross Section



Attachment 4

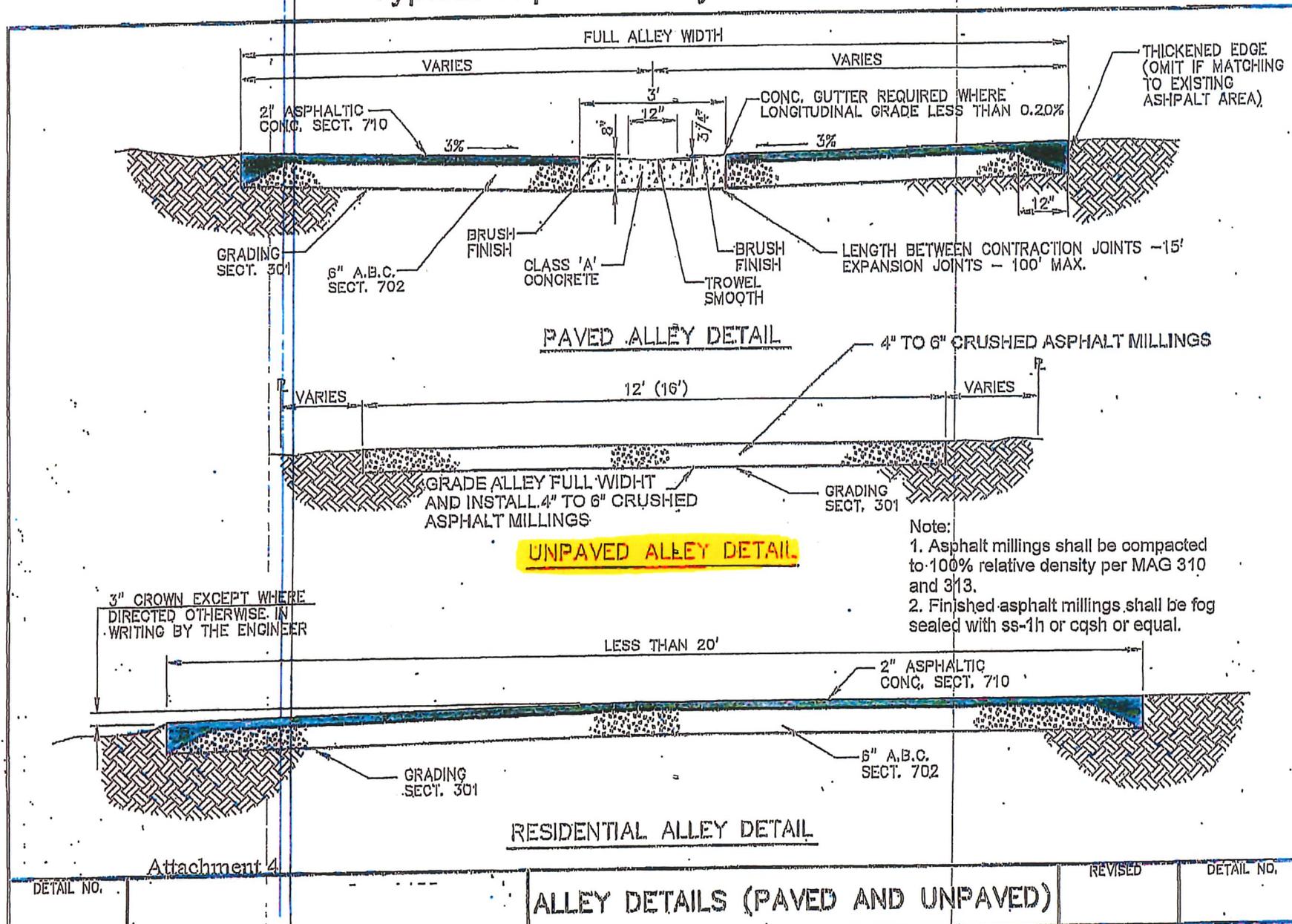
DETAIL NO.

ALLEY DETAILS (PAVED AND UNPAVED)

REVISED

DETAIL NO.

Typical Unpaved Alley Cross Section



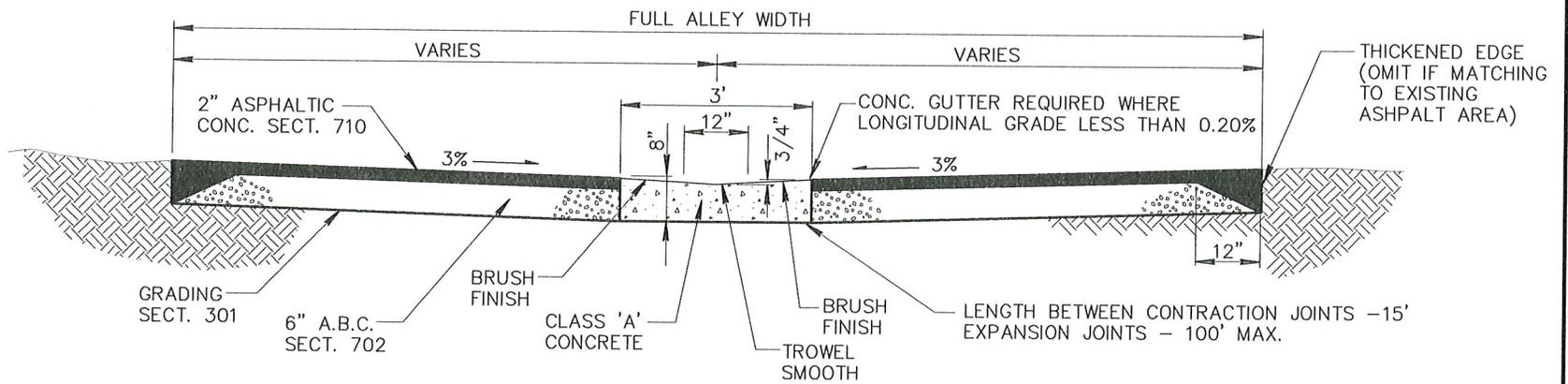
Attachment 4

DETAIL NO.

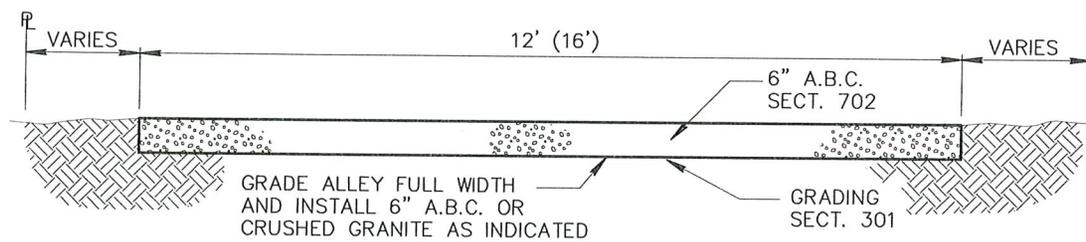
ALLEY DETAILS (PAVED AND UNPAVED)

REVISED

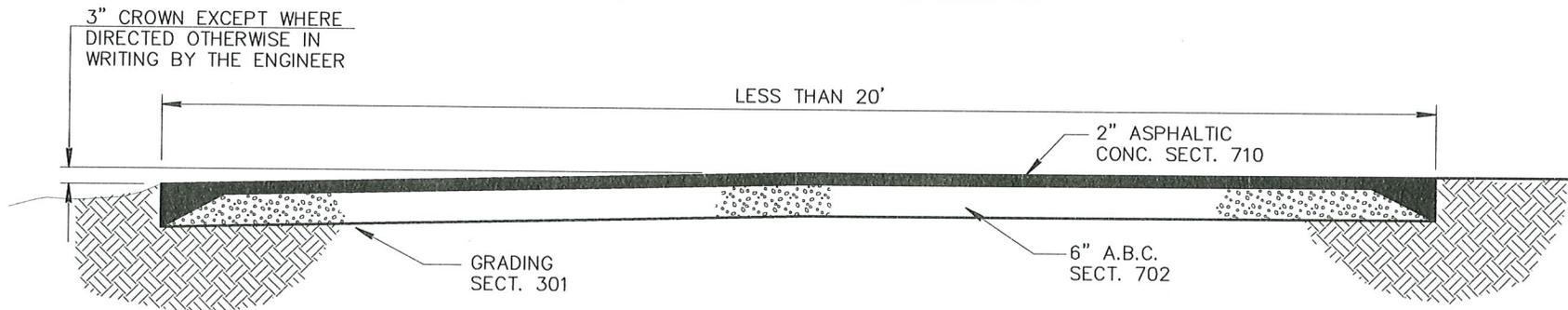
DETAIL NO.



PAVED ALLEY DETAIL



UNPAVED ALLEY DETAIL



RESIDENTIAL ALLEY DETAIL