Name: PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION 2024
Id: CHN-23-PAVING-002
Agency: Chandler
This application was signed by Kevin Lair on 9/10/2020
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 miilings 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 19.99 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 (19.99 miles)	2024	-	5,000	5,000	100.0%
Construction, may include utilities	Please see attached Maps in Segments	Alley Rehabilitation (19.99 miles)	2024	2,629,089	158,916	2,788,006	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 26 Segment 1
Segment Length	11.27
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

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.

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 27 Segment 2
Segment Length	5.12
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	

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.

Name: PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION 2024
Id: CHN-23-PAVING-002
Agency: Chandler

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" 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 24 Segment 3
Segment Length	1.9
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	

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.

Name: PM-10 PAVING UNPAVED ROAD PROJECT APPLICATION 2024
Id: CHN-23-PAVING-002
Agency: Chandler

Segment 4

Proposed Improvements

Summary of the improvements proposed for the segment

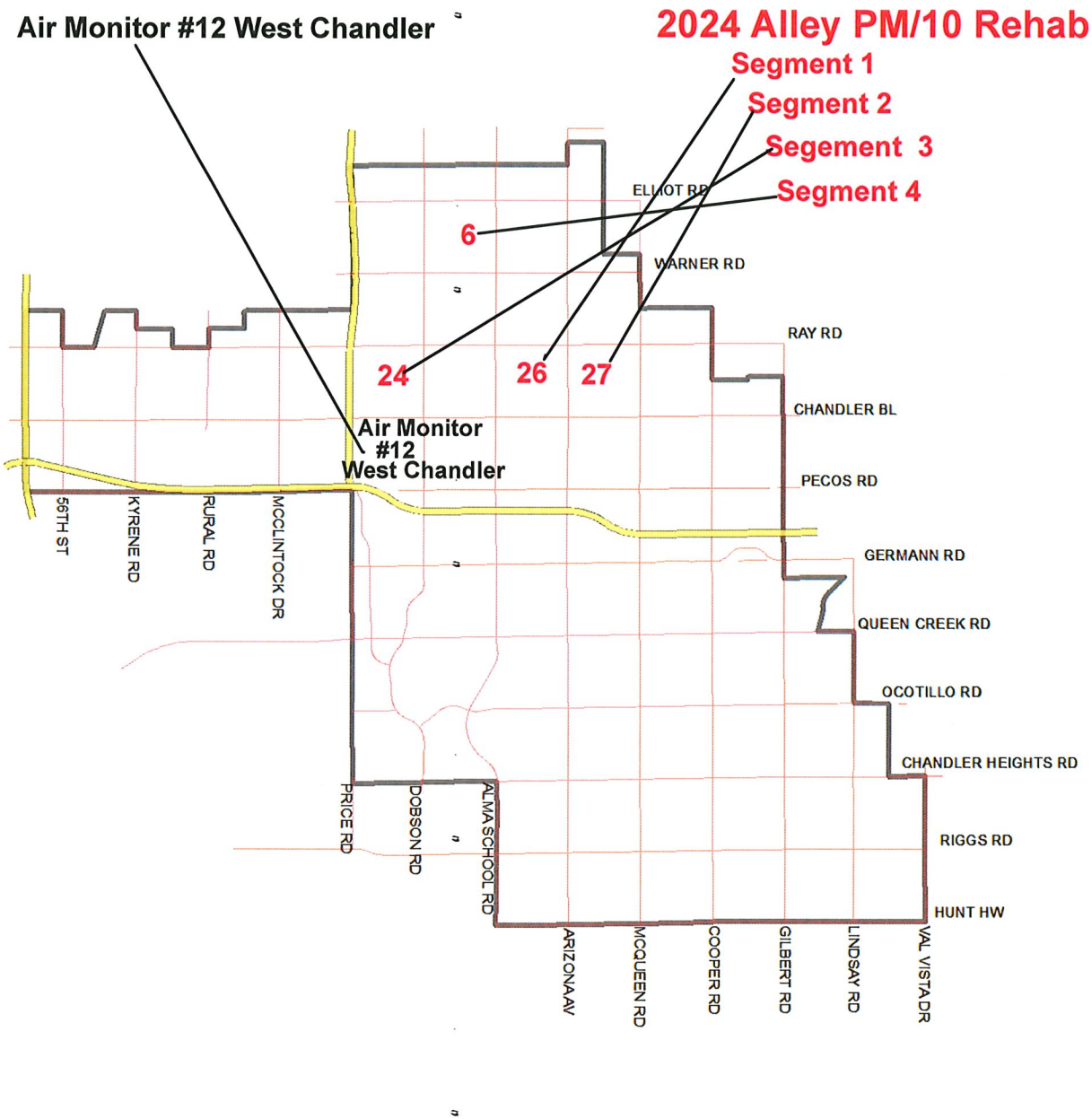
Type of Paving Project	Alley
Work to be Performed	The process will include removing the existing dirt surface to a depth of about 4" and replacing with the same amount of asphalt millings. The placed asphalt millings will be compacted and fog sealed to help bind the aggregates and reduce dust.
Vertical 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 6 Segment 4
Segment Length	1.7
Curb Miles	1.7
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

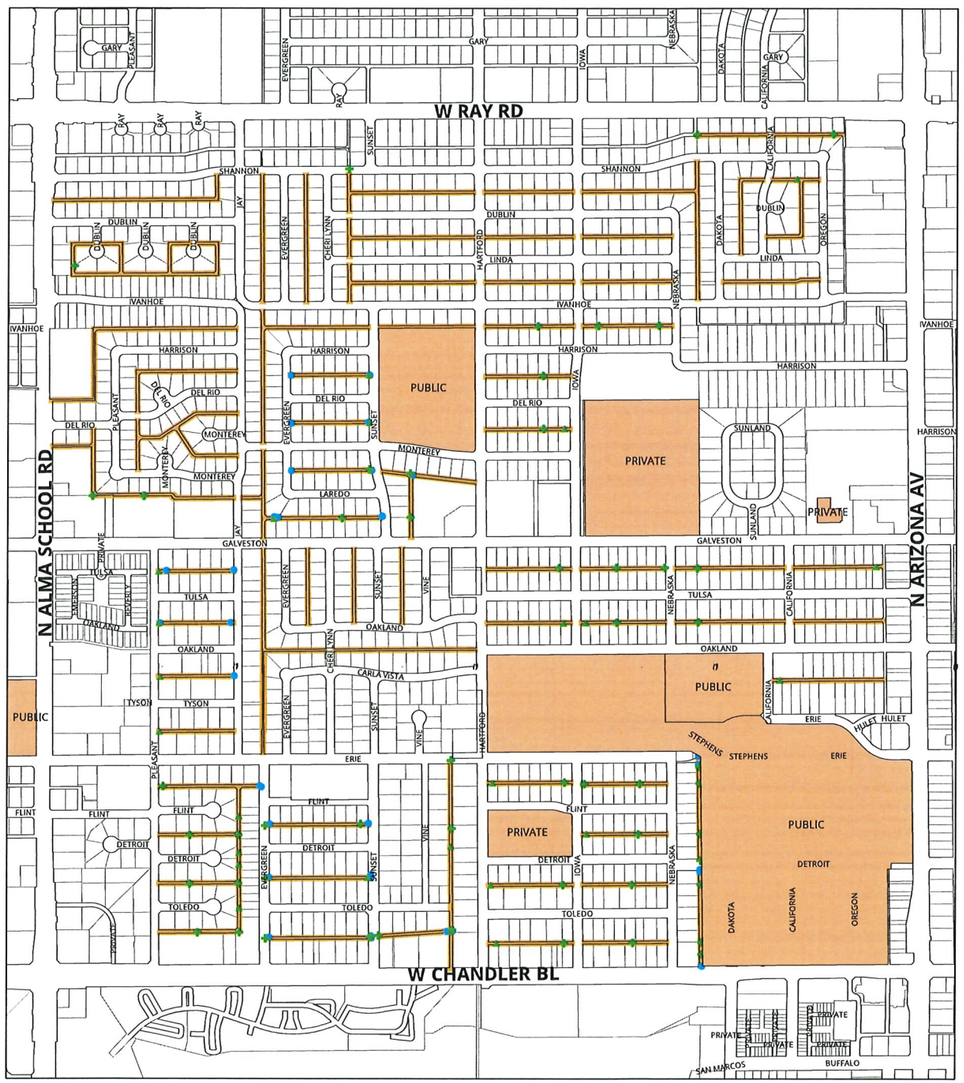
Right of Way Issues	
Current Utilities	Power Lines and Cables|Pipelines, Sewer, and Water
Other Utility Conflicts	None. Manholes or water valves may need to be adjusted to finish grade.


Air Monitor #12 West Chandler
2024 Alley PM/10 Rehab
Segment 1
Segment 2
Segement 3
Segment 4
6
24
26
27
ELLIOT RD
WARNER RD
RAY RD
CHANDLER BL
PECOS RD
GERMANN RD
QUEEN CREEK RD
OCOTILLO RD
CHANDLER HEIGHTS RD
RIGGS RD
HUNT HW
Air Monitor
#12
West Chandler
56TH ST
KYRENE RD
RURAL RD
MCCLINTOCK DR
PRICE RD
DOBSON RD
ALMA SCHOOL RD
ARIZONA AV
MCQUEEN RD
COOPER RD
GILBERT RD
LINDSAY RD
VAL VISTA DR

CHANDLER arizona

2024 ALLEY PM/10 REHAB
SEGMENT 1

NTS



- 2024/2025 SURVEY MONUMENT
- 2024/2025 BRASS CAP
- 2024/2025 WATER VALVE
- 2024/2025 SEWER CLEANOUT
- 2024/2025 SEWER MANHOLE
- 2024/2025 STORM DRAIN
- 2024/2025, ALLEY PM10 REHAB
- SCHOOL SITE

FMA PAGE 26	
FEATURE	COUNT
SURVEY MONUMENT	0
BRASS CAP	0
SEWER MANHOLE	37
SEWER CLEANOUT	20
STORM DRAIN	0
WATER VALVES	22

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

Alley Mileage: 11.27 Miles

FMA Page 26

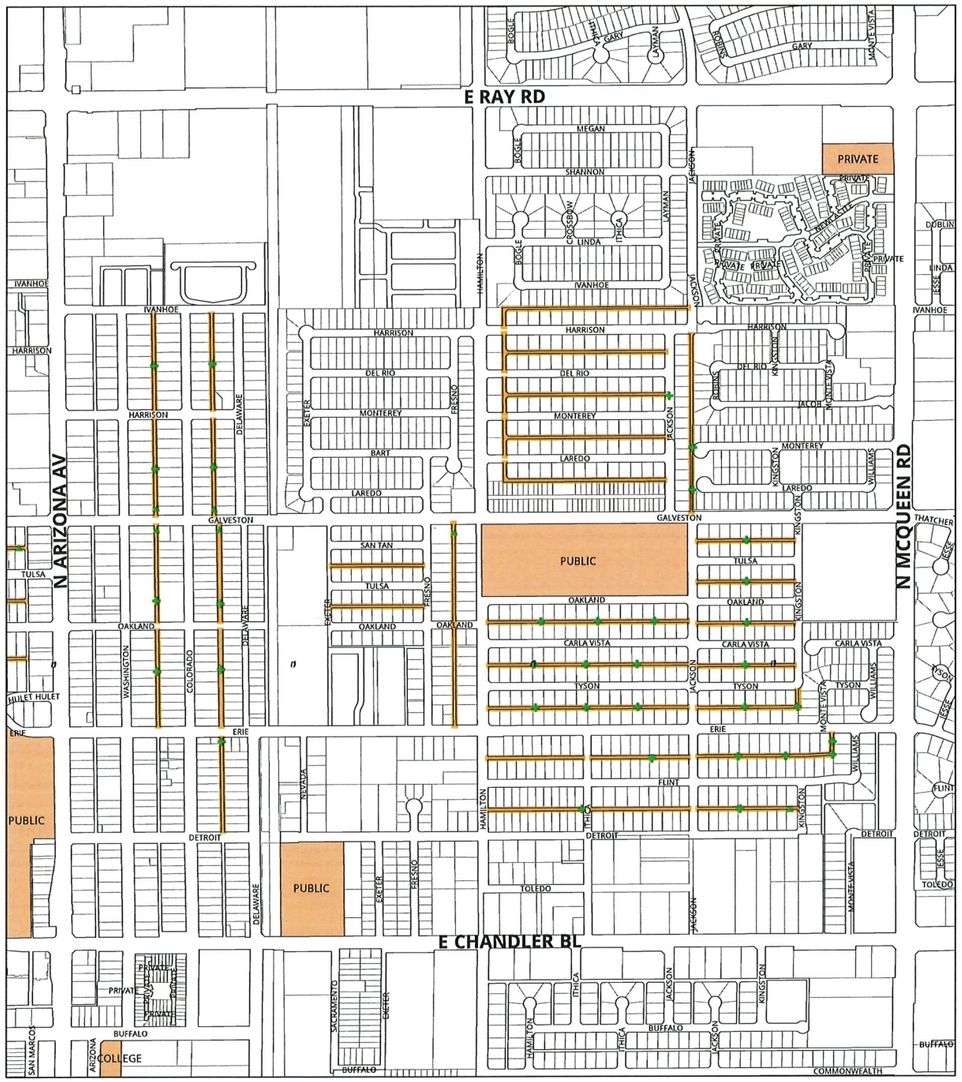
Attachment 4

Path: F:\ENGINEER\GENSERV_ArcMap_SharedMap Requests\Streets\STREETS PAVEMENT HISTORY\2023-2024 PAVEMENT MAINTENANCE\2023-2024_ALLEY_AND_SHOULDER_PM_10\2023_2024_Pavement_Maintenance.aprx User: maricelah

CHANDLER arizona

2024 ALLEY PM/10 REHAB
SEGMENT 2

NTS



- 2024/2025 SURVEY MONUMENT
- 2024/2025 BRASS CAP
- 2024/2025 WATER VALVE
- 2024/2025 SEWER CLEANOUT
- 2024/2025 SEWER MANHOLE
- 2024/2025 STORM DRAIN
- 2024/2025, ALLEY PM10 REHAB
- SCHOOL SITE

FMA PAGE 27	
FEATURE	COUNT
SURVEY MONUMENT	0
BRASS CAP	0
SEWER MANHOLE	33
SEWER CLEANOUT	7
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: 5.12 Miles

FMA Page 27

Attachment 6

Path: F:\ENGINEER\GENSERV_ArcMap_SharedMap Requests\Streets\STREETS PAVEMENT HISTORY\2023-2024 PAVEMENT MAINTENANCE\2023-2024_ALLEY_AND_SHOULDER_PM_10\2023_2024_Pavement_Maintenance.aprx User: mariceliah

CHANDLER arizona

2024 ALLEY PM/10 REHAB
SEGMENT 3

NTS
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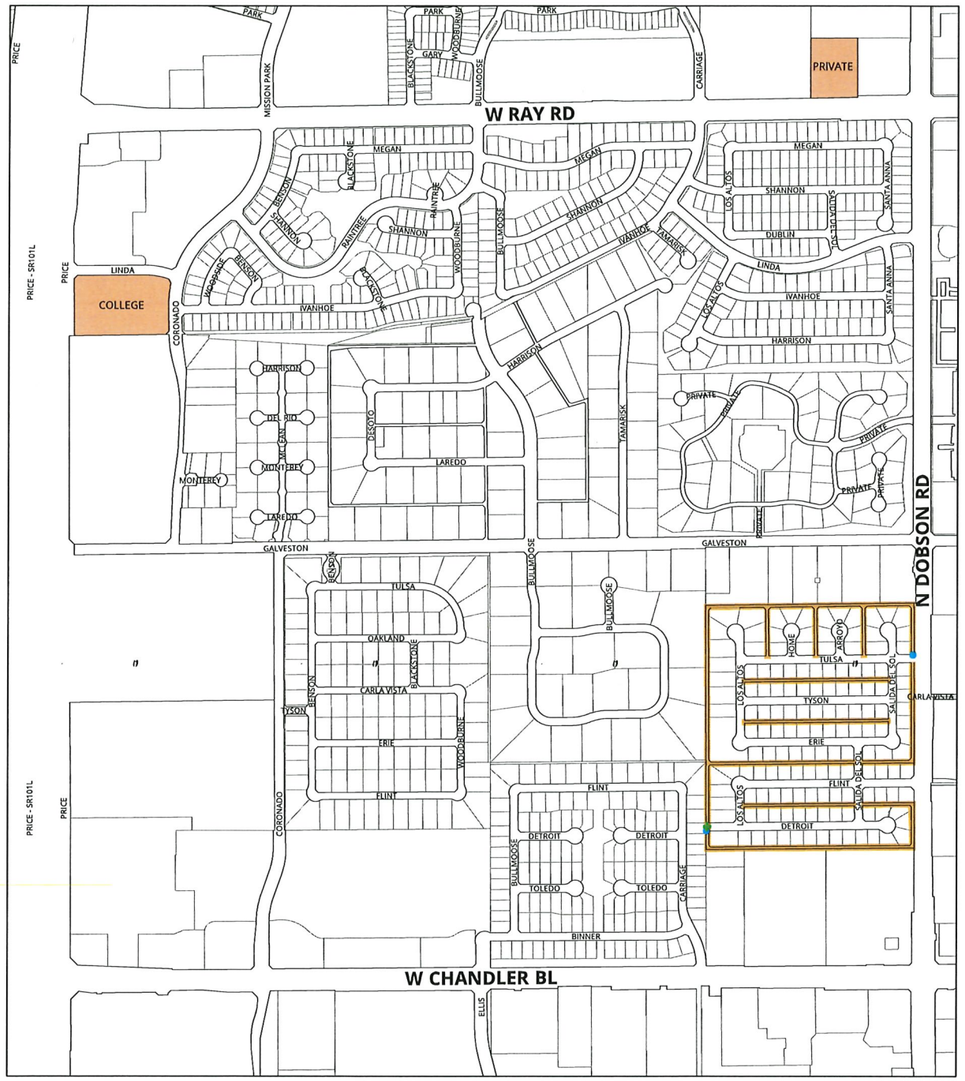


- 2024/2025 SURVEY MONUMENT
- 2024/2025 BRASS CAP
- 2024/2025 WATER VALVE
- 2024/2025 SEWER CLEANOUT
- 2024/2025 SEWER MANHOLE
- 2024/2025 STORM DRAIN
- 2024/2025, ALLEY PM10 REHAB
- SCHOOL SITE

FMA PAGE 24	
FEATURE	COUNT
SURVEY MONUMENT	0
BRASS CAP	0
SEWER MANHOLE	1
SEWER CLEANOUT	0
STORM DRAIN	0
WATER VALVES	2

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

Alley Mileage: 1.90 Miles

FMA Page 24

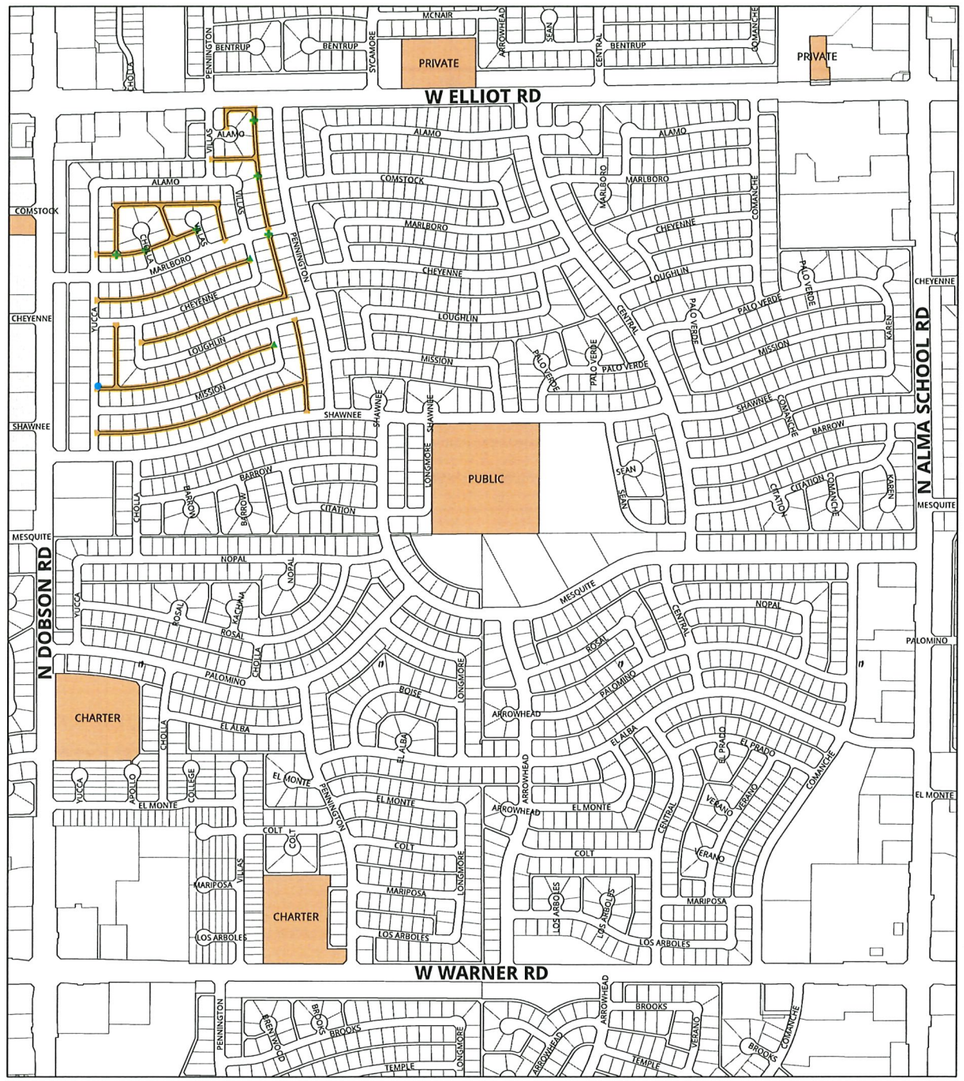
Attachment 2

Path: F:\ENGINEERVGENSERV_ArcMap_Shared\Map Requests\Streets\STREETS PAVEMENT HISTORY\2023-2024 PAVEMENT MAINTENANCE\2023-2024_ALLEY_AND_SHOULDER_PM_10\2023_2024_Pavement_Maintenance.aprx User: maricebh

CHANDLER arizona

2024 ALLEY PM/10 REHAB
SEGMENT 4

NTS
ChanGIS



- 2024/2025 SURVEY MONUMENT
- 2024/2025 BRASS CAP
- 2024/2025 WATER VALVE
- 2024/2025 SEWER CLEANOUT
- 2024/2025 SEWER MANHOLE
- 2024/2025 STORM DRAIN
- 2024/2025, ALLEY PM10 REHAB
- SCHOOL SITE

NOTE:
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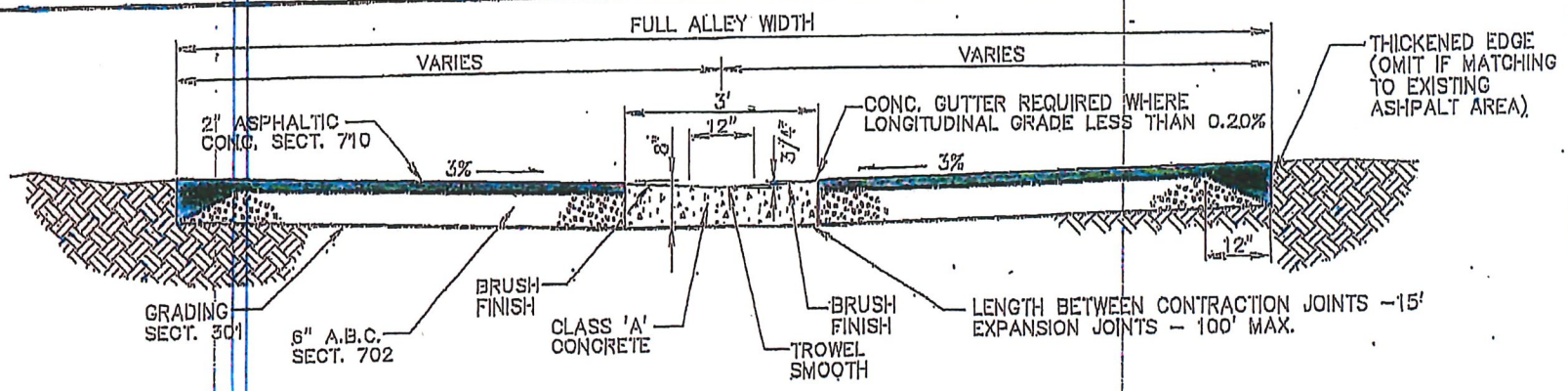
Alley Mileage: 1.7 Miles

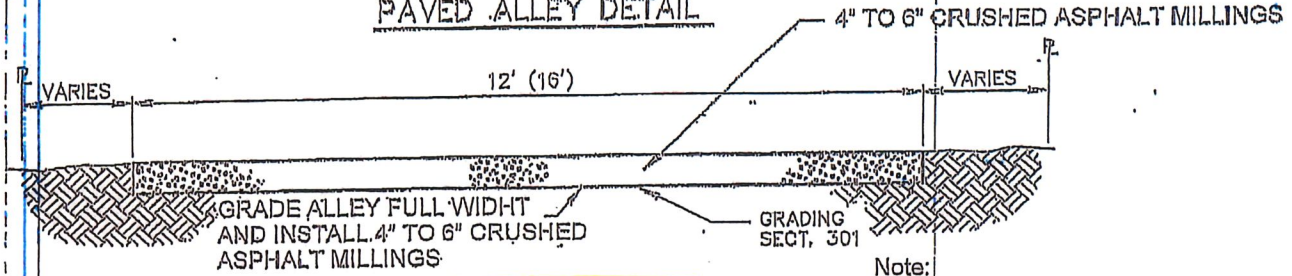
FMA Page 6

Path: F:\ENGINEER\GENSERV_ArcMap_Shared\Map Requests\Streets\STREETS PAVEMENT HISTORY\2023-2024 PAVEMENT MAINTENANCE\2023-2024_ALLEY_AND_SHOULDER_PM_10\2023_2024_Pavement_Maintenance.aprx User: MaricelaH

Typical Unpaved Alley Cross Section

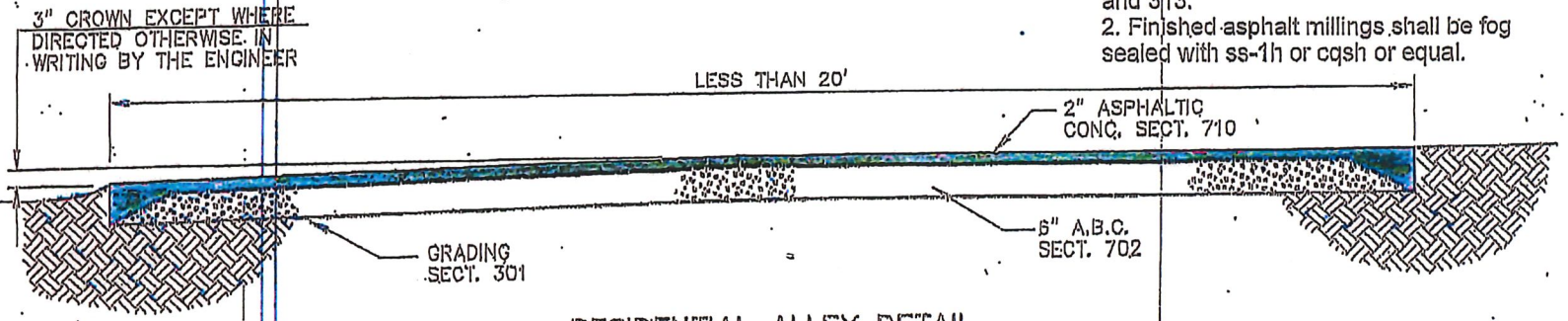


PAVED ALLEY DETAIL



UNPAVED ALLEY DETAIL

Note:
1. Asphalt millings shall be compacted to 100% relative density per MAG 310 and 313.
2. Finished asphalt millings shall be fog sealed with ss-1h or cqsh or equal.

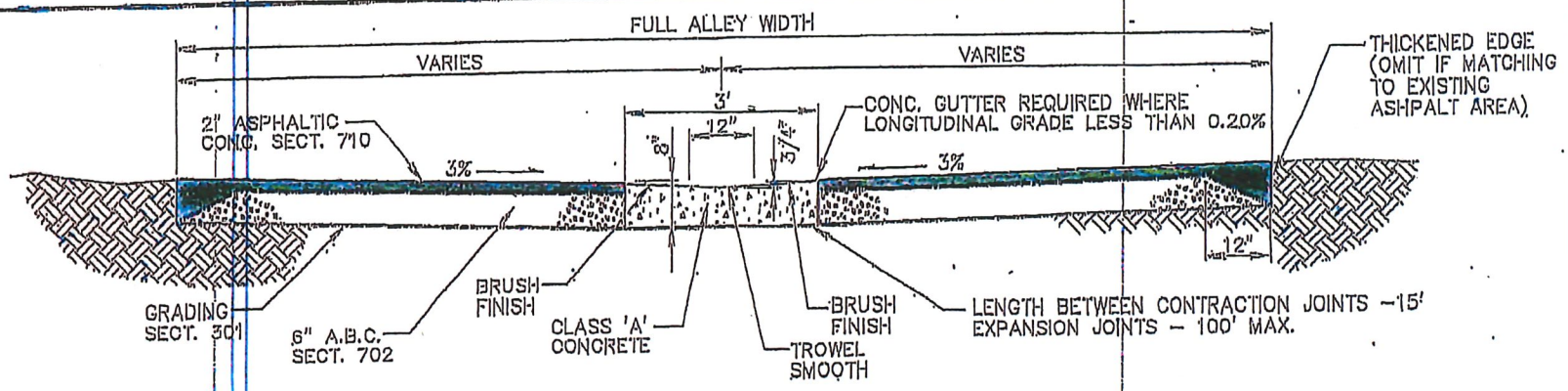


RESIDENTIAL ALLEY DETAIL

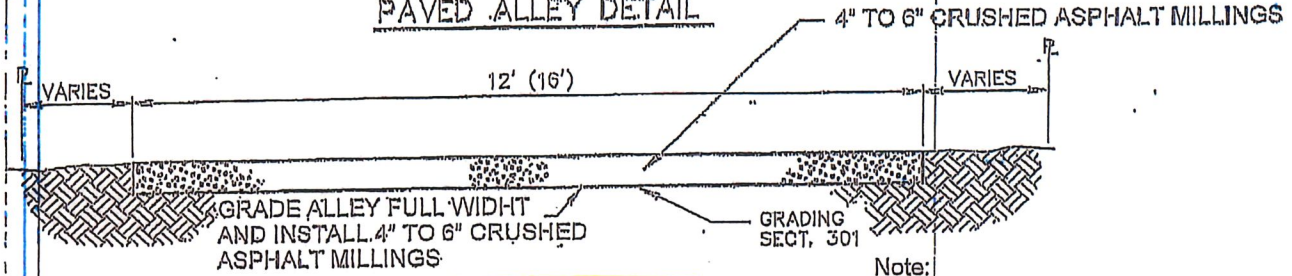
Attachment 4

DETAIL NO.	ALLEY DETAILS (PAVED AND UNPAVED)	REVISED	DETAIL NO.

Typical Unpaved Alley Cross Section



PAVED ALLEY DETAIL



UNPAVED ALLEY DETAIL

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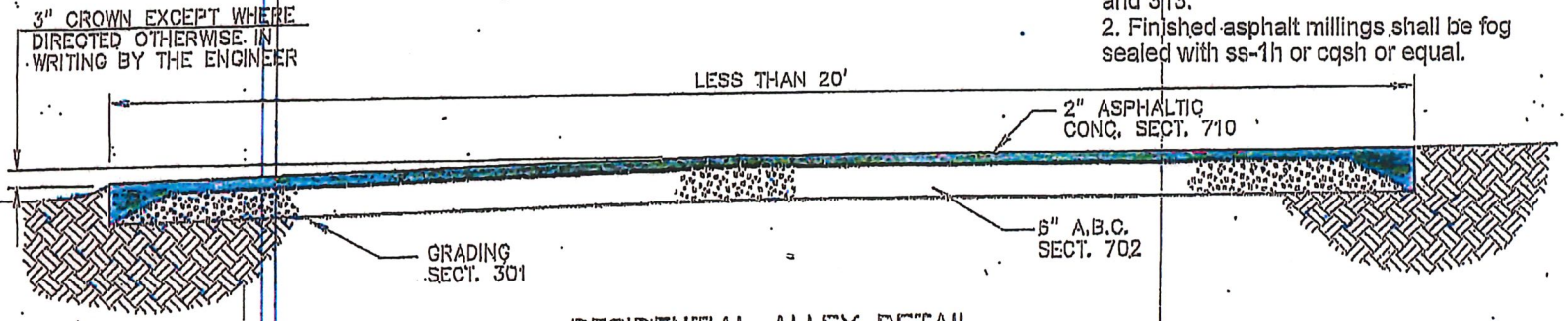
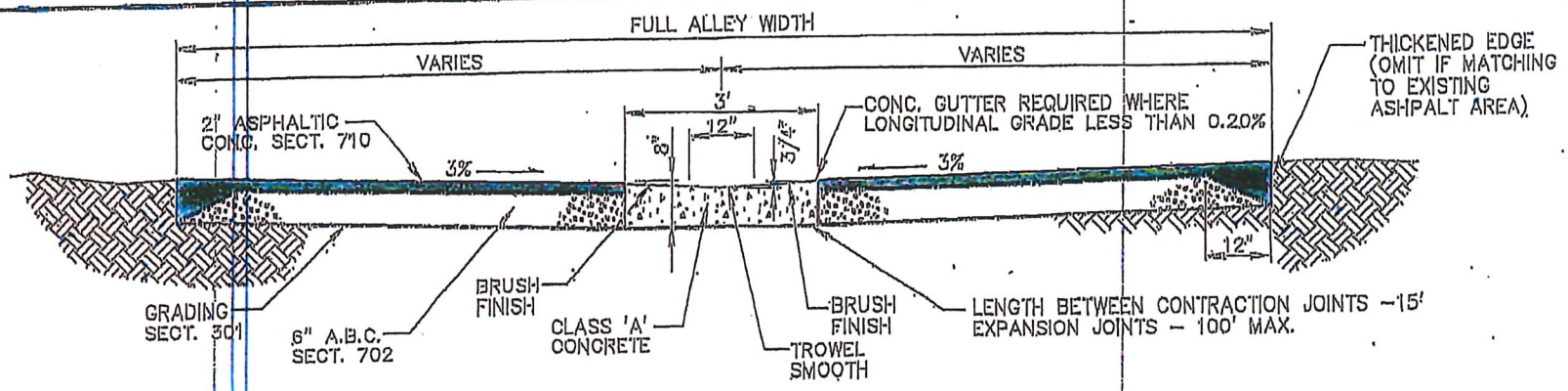


RESIDENTIAL ALLEY DETAIL

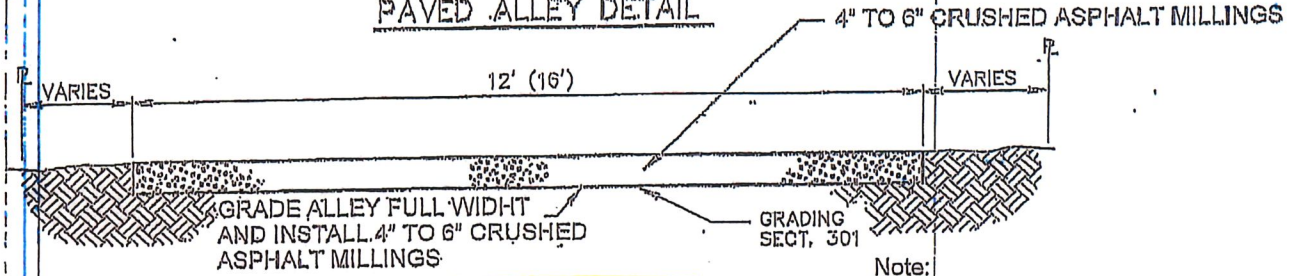
Attachment 4

DETAIL NO.	ALLEY DETAILS (PAVED AND UNPAVED)	REVISED	DETAIL NO.

Typical Unpaved Alley Cross Section



PAVED ALLEY DETAIL



UNPAVED ALLEY DETAIL

Note:
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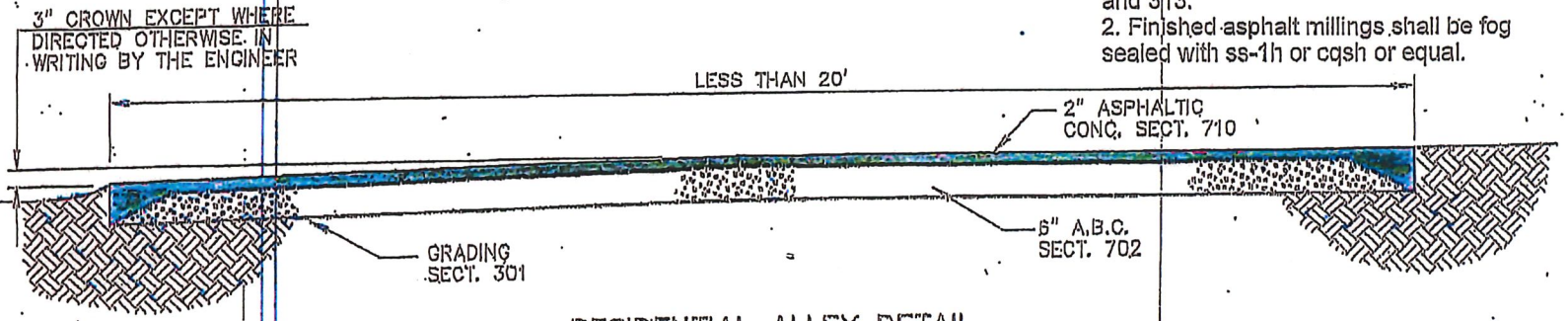
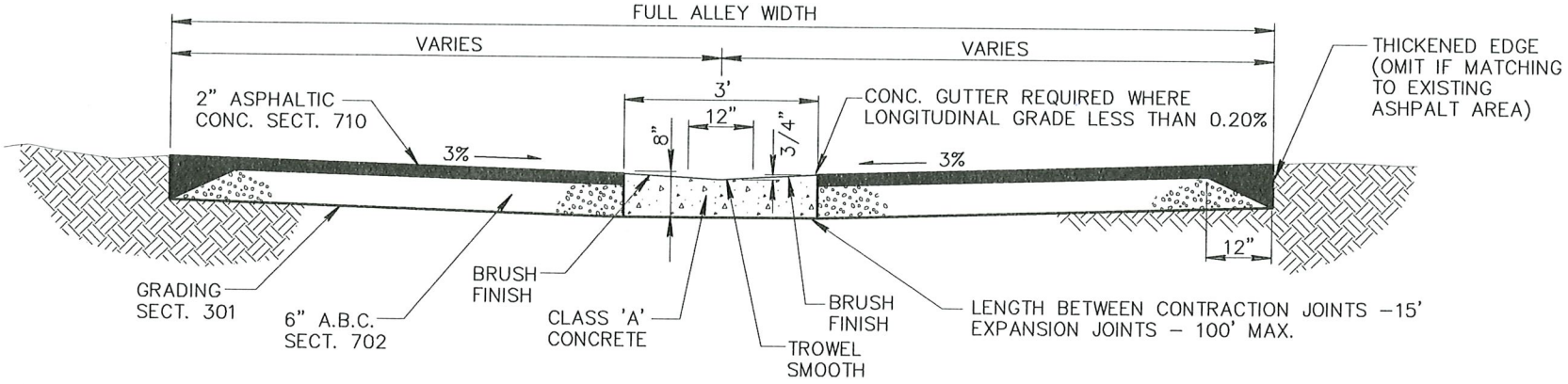


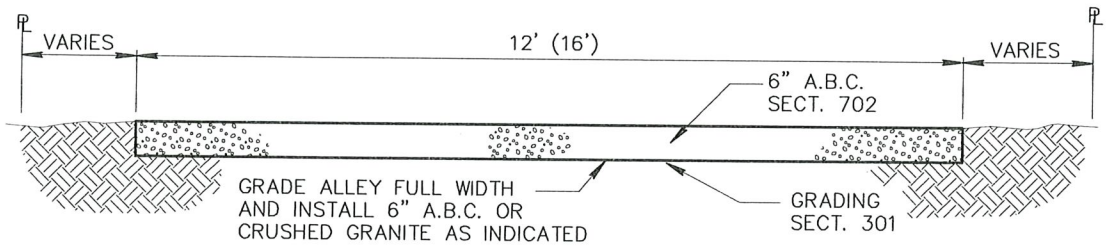
RESIDENTIAL ALLEY DETAIL

Attachment 4

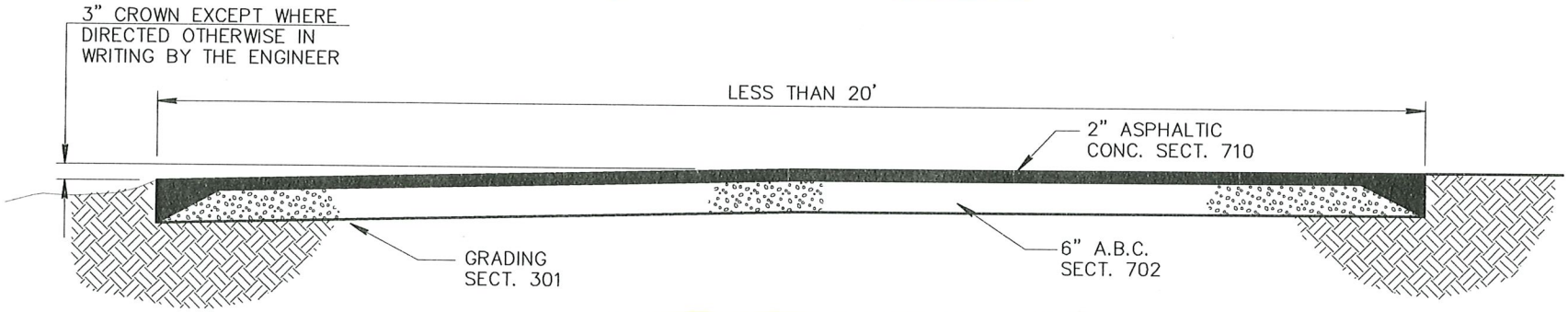
DETAIL NO.	ALLEY DETAILS (PAVED AND UNPAVED)	REVISED	DETAIL NO.



PAVED ALLEY DETAIL



UNPAVED ALLEY DETAIL



RESIDENTIAL ALLEY DETAIL

DETAIL NO.			REVISED	DETAIL NO.
202	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	ALLEY DETAILS (PAVED AND UNPAVED)	01–01–1998	202