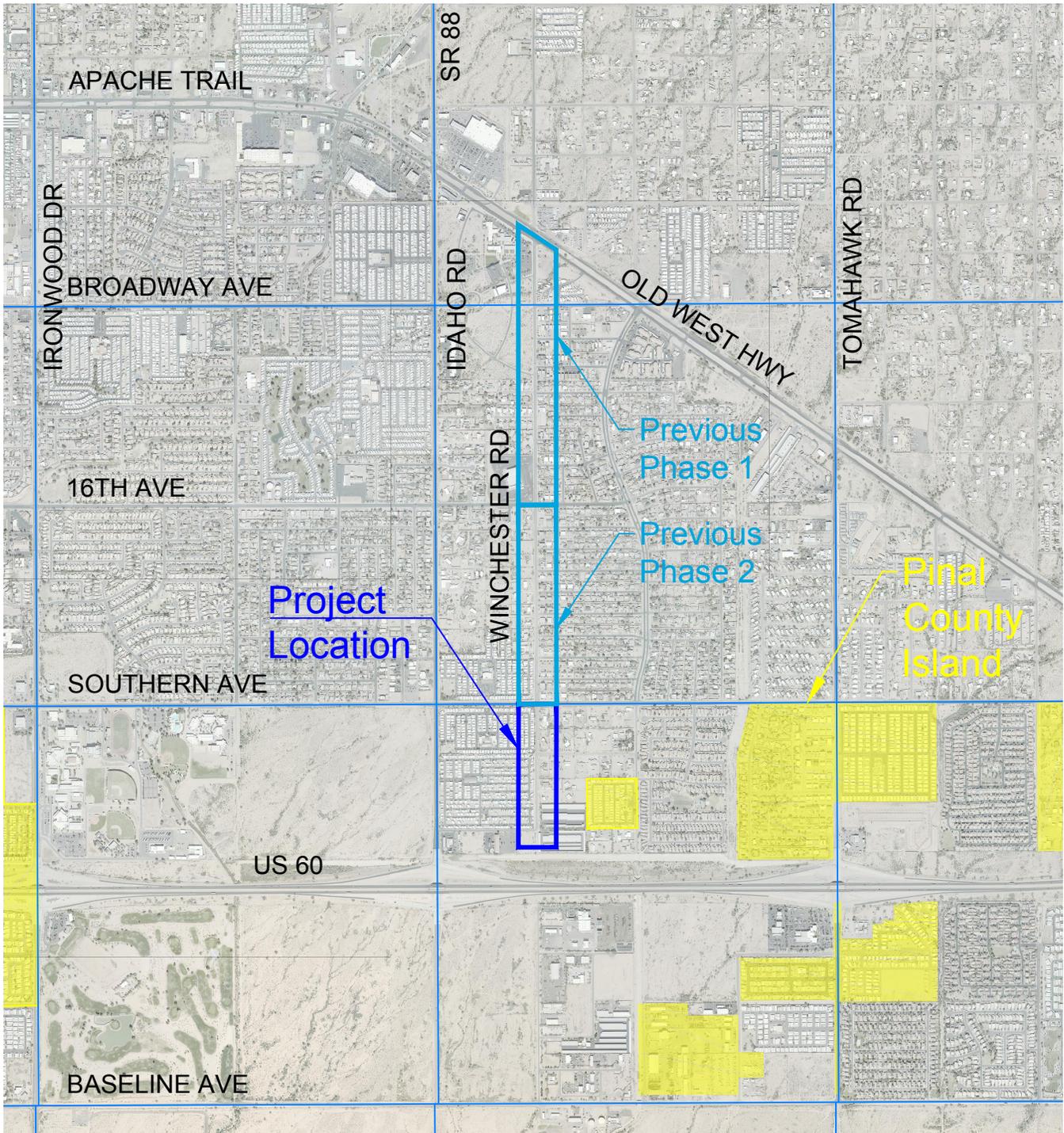


Apache Junction - Winchester Rd from 29th Ave to Southern Ave Project Description Sheet		
Instructions	1. Please enter values for all cells with a green fill pattern 2. All cells are required. If the information is not applicable enter "None" or 0.	
Contact Information	Contact Name	Raquel Schatz
	Contact Phone	480-474-8549
	Contact Email	rschatz@ajcity.net
1. Project Sponsorship	Project Sponsor Name	Apache Junction
	Other Participating Agencies	
2. Project Location	Identify the Project Location (50 Char Limit)	Winchester Rd from 29th Ave to Southern Ave
	Attach a map depicting the project.	(Attach a map depicting the project location)
	Attach a vicinity map of the project	(Attach a vicinity map showing the project location relative to the area)
3. Project Work Description	Provide a short work description (50 char limit)	Widen Road (2 to 3 lanes) final construction phase
	Overview - please describe the work to be performed, its benefits and costs	<p>This is the last segment of Winchester Road to be widened to three lanes. Everything north, Southern Avenue to Old West Highway (Old US60X), is three lanes with bicycle lanes. Roadway capacity expansion will provide safety, connectivity, and help contain the drainage in the street.</p> <p>The residential owners/tenants use this portion of Winchester Road as a bypass to get to the US Highway 60. So safety is a concern for those making a left to turn on to the side streets and/or driveways. Also provides safety for utility providers to check meters and their facilities. Currently the entire roadway gets shut down since the utilities are on the side of the channel and or in the street.</p> <p>Drainage in this section is a requirement from ADOT in order to connect the storm drain that the city installed in Phase 2. City will be funding the cast-in-place portion of this roadway project.</p>
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	
	Name of Nearest Employment Center	Winchester Industrial
	Approximate Number of Employees at the center	600
	Distance to the project	< 1 mile
	Commercial Center	
	Name or Nearest Commercial Center	Old West Marketplace
	Approximate Square Footage of the Commercial Center	140,000
	Distance to the project	< 2 miles
5. Regional Connectivity	Does the Project Improve Connectivity	Yes

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Project Description Sheet		
Instructions	1. Please enter values for all cells with a green fill pattern 2. All cells are required. If the information is not applicable enter "None" or 0.	
	If answer above was yes, briefly discuss how the project improves regional/multijurisdictional connectivity.	This irregular two lane road no longer aligns with the roadway segment north of this project. An additional lane will provide connectivity and allow traffic to smoothly flow as traffic halts when vehicles need to make a left to the side streets and/or driveways on the east side of the street. The end portion of this project will now line up instead of a skewed/tapered lane that crosses a major arterial street. The majority of the vehicular movement uses this segment as a bypass to the US60.

PROJECT LOCATION MAP

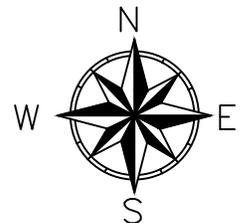


CONSTRUCTION SEQUENCING

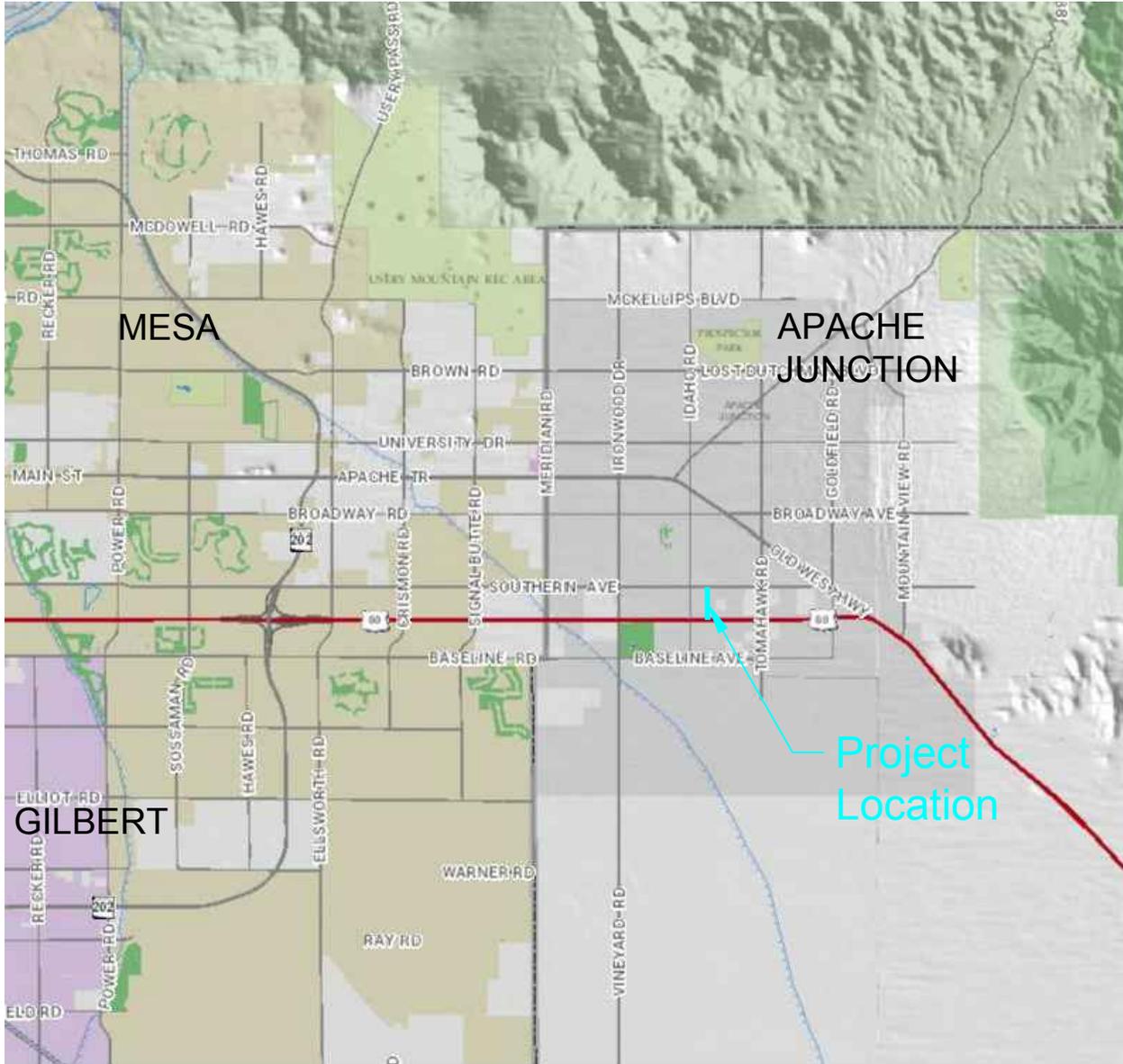
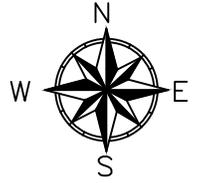
Phase 1: 16th Avenue to Old West Highway
City Funded. Completed 2012

Phase 2: Southern Avenue to 16th Avenue
CMAQ Funded. Completed 2020

Phase 3: 29th Avenue to Southern Avenue.



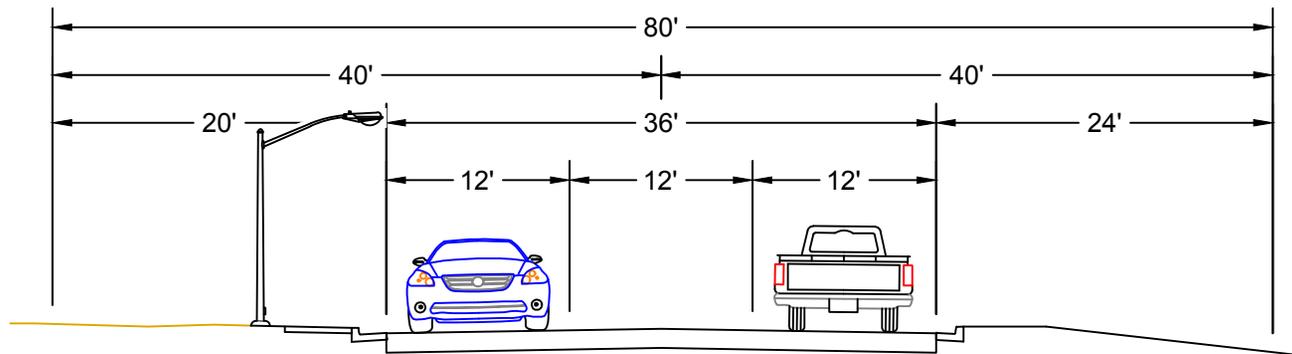
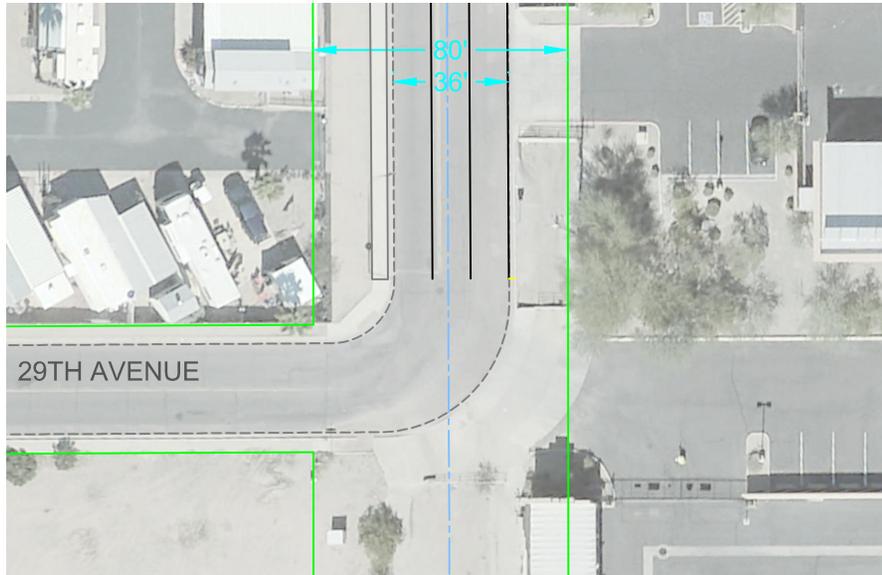
VICINITY MAP



Apache Junction - Winchester Rd from 29th Ave to Southern Ave Project Description Sheet		
Instructions	1. Please enter values for all cells with a green fill pattern 2. All cells are required. If the information is not applicable enter "None" or 0.	
6. Agency Plans	Is the project included in Agency Plans If the check box above is checked, briefly discuss jurisdiction General/Transportation Plan and the role of the project in the plan.	Yes This project is included in the city's 2019 Active Transportation Plan, the 2012 Comprehensive Transportation Study, and the 2020 General Plan.
7. Maintenance Plan	Is there an agency maintenance plan? if the above is yes, briefly describe the agency's maintenance plan for the planned improvement	Yes Presently, the plan is to complete crack sealing and a seal coat next year (Summer 2021) then a wearing course (slurry seal) a few years later. If necessary, the city will perform thermal patches where crack sealing is no longer an option.
8. Community Involvement	Is the project a community request If the check box above is checked, briefly describe the nature of the community request.	No The project is city lead and will provide increased capacity, safety, and a cohesive realignment of the roadway.

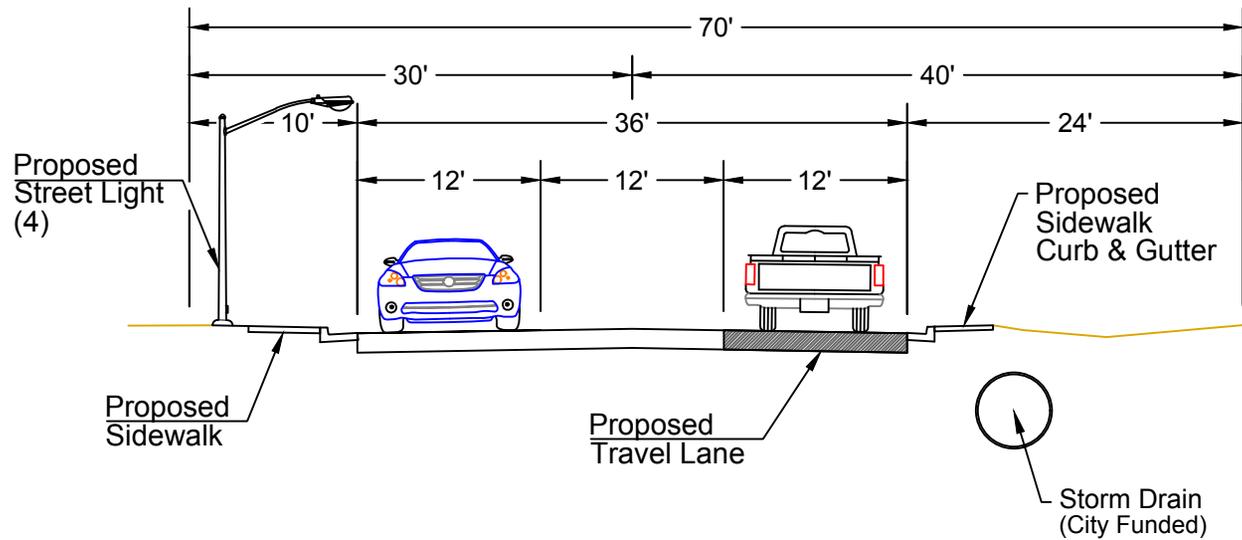
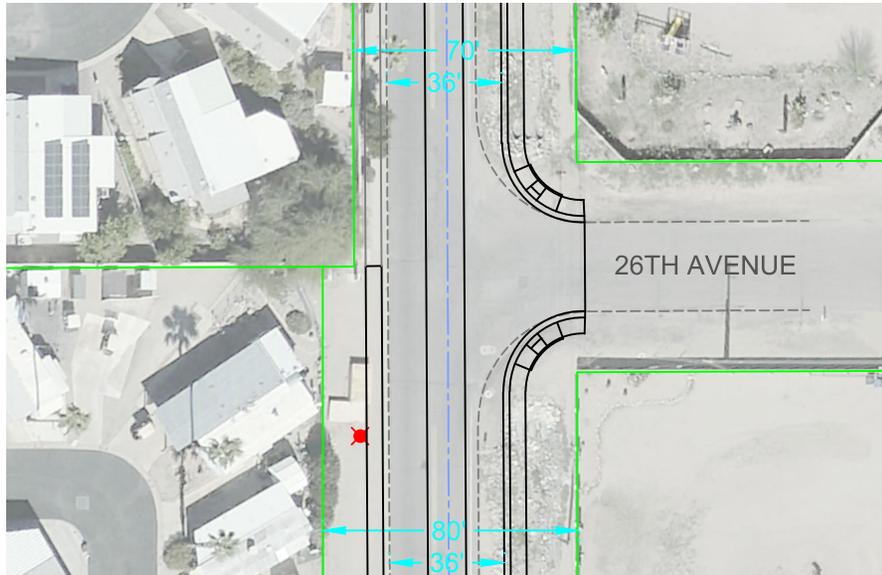
Apache Junction - Winchester Rd from 29th Ave to Southern Ave Roadway Segment Sheet		
Instructions	1. This sheet is required for all roadway segment and bridge projects. Please omit if the project is exclusively an intersection project. 2. Items for #4 and #14 may be omitted for non bridge projects, all other green colored cells are required 3. A Excel work sheet for each distinct roadway section or segment is required. To add a new worksheet to this Excel workbook file, do the following: > Right Click on the Roadway tab at the bottom of the screen > Select the "Move or Copy" option > Select the "Roadway" sheet > Check the "Create Copy" box > Click the "Okay" button	
1. Roadway Location	Roadway Name	Winchester Road
	Starting Limit	29th Avenue
	Ending Limit	Southern Avenue
	Length (to nearest 10th of a mile)	0.40
Current Roadway Characteristics		
2. Federal Functional Classification	Please select the federal functional classification of the roadway	Minor Collector
	Link to Functional Classification Maps	
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved	(Attach cross section diagram that depicts the lane configuration, shoulders, the median, bicycle lanes, sidewalks, access control features such as barriers and adjoining features such as canals. Widths of features should be included and type of paving should be indicated)
	Attach a photo(s) of the current roadway	(Attach photo(s) of the roadway)
	Number of Through Lanes (Both directions)	2
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table)	
	Is Structurally Deficient?	No
	Is Functionally Obsolete?	No
	Link to ADOT NBI Table	
5. Pavement Condition	Pavement Type	Asphaltic Concrete
	Pavement Rating	
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	Remaining Service Life of 15
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	1-20, 20 is the best condition
	Date of Rating	10/18/2018
	Rating	Satisfactory Condition

CROSS SECTIONS



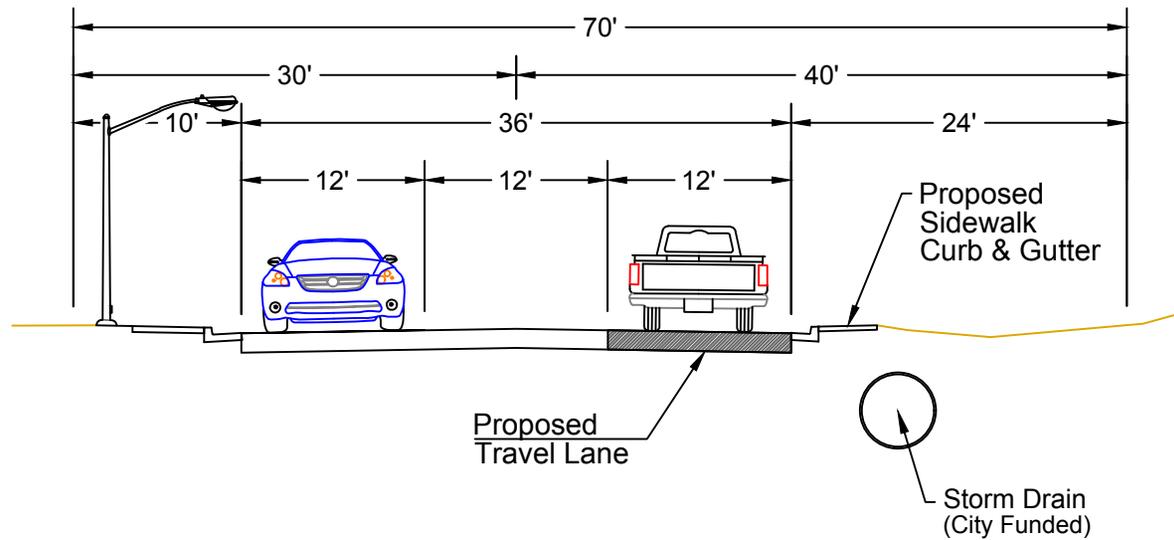
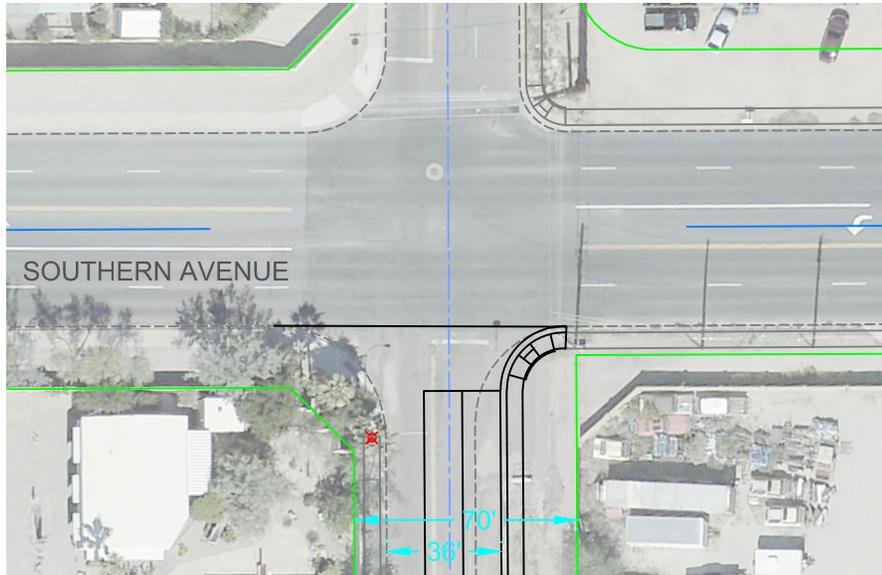
Winchester Road and 29th Avenue

CROSS SECTIONS



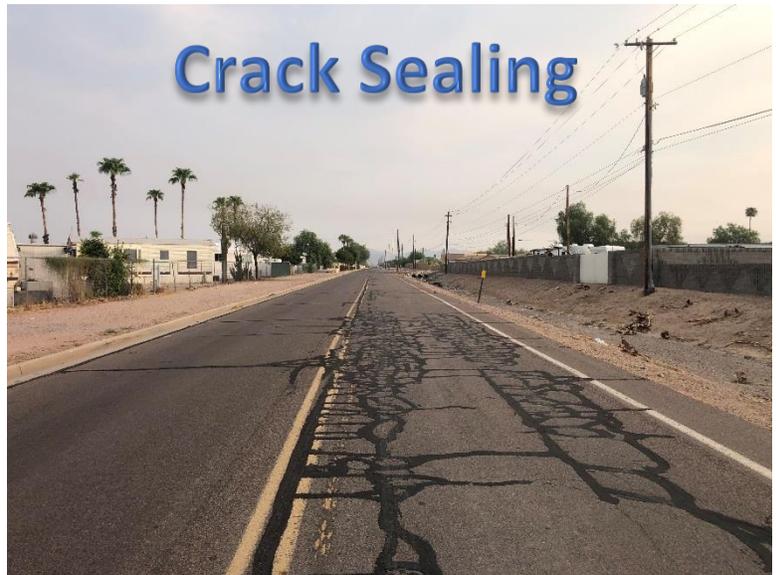
Winchester Road and 26th Avenue

CROSS SECTIONS



Winchester Road and Southern Avenue

PHOTOS



PHOTOS



Re-Alignment



Drainage Crossings



Channel/Edge



Channel/Parked Vehicles

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Roadway Segment Sheet		
6. Traffic	Traffic Count (Mid Block Only) Please describe how the count was collected	The count was taken from the intersection of Southern Avenue and Winchester Road intersectio heading south.
	Date of Count	3/20/2019
	AADT	4210
	K-Factor - Percent of traffic in the peak hour	9%
	D-Factor - Percent of design hour volume flowing in the peak hour direction	9%
	Number of lanes in the Peak Hour Direction	2
	Posted Speed Limit (mph)	30
	Peak Hour Speed (mph)	30
7. Safety	Name and limits of roadway where crashes occurred. If the project builds a new roadway, please use a comparable roadway for crash data submitted and explain why it was selected.	Winchester Road between 29th Avenue and Southern Avenue.
	Number of fatality crashes	0
	Number of incapacitating crashes	7
	Number of non incapacitating crashes	20
	Number of possible injury crashes	9
	Number of property damage only crashes	1
8. Multimodal	Does the roadway have a transit Route?	No
	Does the roadway have a striped bicycle lanes?	No
Proposed Roadway Characteristics and Improvements		
9. Proposed Functional Classification	Please select the federal functional classification of the roadway	Minor Collector
	Link to Functional Classification Maps	
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	(Attach cross section diagram that depicts the lane configuration, shoulders, the median, bicycle lanes, sidewalks, access control features such as barriers and adjoining features such as canals. Widths of features should be included and type of paving should be indicated)
	Number of Through Lanes on the improved roadway (Both directions)	2

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Roadway Segment Sheet		
11. Access Control Improvements	Please describe access control issues and proposed improvements	Currently there are two (2) travel lanes with no center turn lane. Vehicles are forced to stop and wait for other vehicles to turn left onto either a residential street or driveway, holding up traffic or worse, impatient people driving around the vehicle waiting to turn left in the opposite direction of traffic. Not only affecting residential but utility providers, when needing to perform a routine check or replace their facilities, their traffic control setup would require a flagman setup or a detour to the nearest street. The proposed project will expand the roadway capacity and realign the roadway to match the other roadway segments from the north and the south.
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements	The westside of Winchester Road already has curb and gutter and in some areas sidewalk. The westside of the road is already in line for SB traffic north of Southern Avenue. The eastside however is not developed and can be expanded so that the roadway lines up to the north. With the expansion of the roadway and addition of storm drain (city funded), the existing roadway segment will no longer require tapers and/or transitions to the three (3) lanes north of Southern Avenue or at the beginning of the project near 29th Avenue where the developer has already made the roadway wide enough for three (3) lanes. The proposed 0.4 mile section will then be aligned.
	Describe vertical alignment issues and proposed improvements	The existing vertical alignment will not change. The city had completed design in 2018. During that process we've worked with utility providers to determine the impacts of installing storm drain. There isn't much clearance if the vertical alignment dropped in elevation, nor does it make sense to raise the vertical alignment because the street drainage gets collected to the ADOT basin to the south near the US60.
13. Drainage Improvements	Describe drainage issues and proposed improvements	The Southern Avenue Channel is an open channel that slopes vary from 6' to 2' down on the east side of the road. There is very little to no shoulder beyond the edge of pavement. By installing storm drain, in the existing channel alignment, the existing channel can be covered and or the depth of the channel can be minimized so that a third lane could be installed thus providing two lanes and a center turn lane. The city is anticipating an increase of drainage runoff due to the newly constructed roadway of Winchester Road north of Southern Avenue, which is the purpose why ADOT is requiring the city to upgrade the drainage facilities in this segment of Southern Avenue.
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	Not Applicable
15. Pavement Improvements	Proposed Pavement Type	Unpaved
	Describe the current condition of the pavement and proposed improvements	The pavement has an RSL of 8. When inspected in 2019, the roadway was considered satisfactory. This section has had numerous roadway patches from utility upgrades and/or repairs. And due to the proximity of the channel, the edge of pavement keeps sheering off and roadway width keeps diminishing.
16. Traffic Improvements	Describe traffic issues and proposed Improvements	This well travelled roadway provides access to several neighborhoods and driveways and is used as a bypass to the US60 from other residents that live 1/2 mile east of Winchester, who travel on west on 26th Avenue. The improvements will provide a safer route to travel for all modes of transportation. Additionally, the storm drainage benefits will provide improved flow of stormwater and will reduce flooding and collapsing of certain utilities which are in the grouted channel.
17. Safety Improvements	Describe safety issues and proposed Improvements	Presently this two (2) lane roadway is misaligned with the areas both north and south of the proposed section. By adding a third lane, the realignment will provide a safer and clearer lane of travel without the need of tapers or transitions. The existing open channel is not separated from the northbound lane on the east side. By covering the open channel, safety will be improved.
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	With the installation of the third lane, bicyclist can use the through travel lanes safely and not ride on the sidewalk and against the direction of traffic.
Environmental, Right-of-way and Other Considerations		
19. Environmental	Please describe environmental impacts or challenges of the project - .e.g. endangered species, cultural assets, hazardous materials sites, 4Fs, Title VI populations, wet lands that would be effected by the project.	There are no identified adverse impacts on the environment. However there is the potential for an environmental benefit by closing the open channel thus eliminating potentials for additional contaminates to the stormwater.
20. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, how much right-of-way will be required, if right-of-way is needed are actors such as the State Lands Department be involved, etc.	The city owns all the right-of-way for the project.

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Roadway Segment Sheet		
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	This section of roadway is surrounded by residential neighborhoods and is presently fully developed. There is no anticipated development at this time.
22. Utilities	Please describe utilities that could impact the proposed project	All utilities have been confirmed/located, through the city's design process. The majority of the existing utilities is below the existing pavement, with the exception of some overhead poles that are located in the open channel grout on the outside of the roadway section. Adding an additional lane would not have any impacts to the utilities except for areas where the water is located, which is why the storm drain is going to be out of the roadway cross section and the vertical alignment will not and cannot change.

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Crash Reduction Factors Sheet

Instructions

1. This sheet required for all projects.
2. Please enter a 'Yes' or 'No' to each safety feature that is included in the project.

1. "Stop Ahead" pavement markings	yes
2. "Vehicles Entering When Flashing" (VEWF) system (advance post mounted signs on major and loops on minor)	no
3. 12 inch signal heads all faces all directions	no
4. Actuated advance warning dilemma zone protection system	yes
5. 3-inch yellow retroreflective sheeting to signal backplates	no
6. Advance street name signs	no
7. All red clearance interval new or existing signals	no
8. All-way stop control (with flashing beacons)	no
9. All-way stop control (without flashing beacons)	no
10. Centerline rumble strips	no
11. Composite shoulders (5 feet minimum) on rural two lane roads	no
12. Three-lane roadways with center turn lane	yes
13. Flashing lights and sound signals at Railroad grade crossings	no
14. Gates with signs at railroad at grade crossings	no
15. Improve 2 lane roadway to 4 lane divided roadway	no
16. Improvements that include reducing 11 feet lanes to 9 feet	no
17. Install a traffic signal (engineering study demonstrates meeting MUTCD Warrant 7)	no
18. Install dynamic signal warning flashers	no
19. Install dynamic speed feedback sign at high speed crash curve sites with identified speeding problems	no
20. Install intersection conflict warning systems (ICWS) for four-lane at two-lane intersections	no
21. Install intersection conflict warning systems (ICWS) for two-lane at two-lane intersections	no
22. Install shoulder rumble strips	no
23. Install wide edgelines (6 in min)	no
24. Intersection conflict warning system (ICWS) with a combination of overhead and advanced post mounted signs (various messages) and flashers	no
25. Intersection conflict warning system (ICWS) with overhead signs (various messages) and flashers at the intersection on minor; loop on major	yes
26. Intersection conflict warning system (ICWS) with post mounted signs (various messages) and flashers in advance of the intersection on major; loop on minor	no

**Apache Junction - Winchester Rd from 29th Ave to Southern Ave
Crash Reduction Factors Sheet**

Instructions	
	1. This sheet required for all projects. 2. Please enter a 'Yes' or 'No' to each safety feature that is included in the project.
27. Modern roundabout where a signalized intersection exists	no
28. Modify zero or negative left-turn lane offset to create positive offset	yes
29. New left-turn lanes with positive offset	yes
30. Pavement friction (Microsurfacing, Open Graded Friction Course, High Friction Surfacing)	yes
31. Pedestrian hybrid beacon (PHB or HAWK)	no
32. Positive offset left-turn lanes on both major road approaches	yes
33. Protected only left-turn signal equipment	no
34. Protected-permissive left-turn signal equipment	no
35. Raised median	no
36. Right-turn lane geometry with increased line of sight	no
37. Roundabout at a high-speed 3 or 4 leg rural intersection	no
38. Rural two lane roads with TWLTL (two-way left turn lanes)	yes
39. Safety edge treatment on rural highways	no
40. Single- or multi-lane roundabout at a two-way stop-controlled intersection	no
41. Single- or multi-lane roundabout at existing signalized intersection	no
42. Two-way stop control at uncontrolled neighborhood intersections	no
43. Urban two lane road with TWLTL (two-way left turn lane)	no
44. Wet-reflective pavement markings	yes

PROJECT COST ESTIMATE WORKSHEET

(Cost Estimates Are Required Regardless of Programming)

DESIGN	REQUESTED PROGRAMMING (Complete if Item will be programmed in the MAG TIP)	Location Description	Winchester Rd from 29th Ave to Southern Ave									
		Work Description	Expansion Capacity of Roadway									
		Funding Source	Local									
		Year to Program Work	2021									
COST ESTIMATE FOR DESIGN			UNITS	QUAN	UNIT	TOTAL	USES FEDERAL	FEDERAL	LOCAL			
DESIGN	PRELIMINARY ENGINEERING (15% plans) (Required for Budget)	Topographic Survey	LS	1	20,000	\$ 20,000.00	Yes	-	20,000			
		Design Concept Report (DCR)	LS	1	50,000	\$ 50,000.00	Yes	-	50,000			
		Federal Project Environmental Determination	LS	1	30,000	\$ 30,000.00	Yes	-	30,000			
		HAZMAT Assessment	LS	1	20,000	\$ 20,000.00	Yes	-	20,000			
		SUBTOTAL - PRELIMINARY ENGINEERING COSTS					\$ 120,000.00			120,000		
DESIGN	FINAL DESIGN (30, 60, 95, 100% plans) (Required for Budget)	Plans, Specifications, Cost Estimates, Bidding	LS	1	120,000	\$ 120,000.00	Yes	-	120,000			
		Geotechnical Report	LS	1	25,000	\$ 25,000.00	Yes	-	25,000			
		Drainage Report	LS	1	30,000	\$ 30,000.00	Yes	-	30,000			
		SWPPP	LS	1	25,000	\$ 25,000.00	Yes	-	25,000			
SUBTOTAL - FINAL DESIGN COSTS					\$ 200,000.00			200,000				
TOTAL PRELIMINARY ENGINEERING AND DESIGN COST AVAILABLE FOR PROGRAMMING					\$ 320,000.00			320,000				
RIGHT OF WAY	REQUESTED PROGRAMMING (Complete only if Right Of Way will be programmed in the MAG TIP)	Location Description	Winchester Rd from 29th Ave to Southern Ave									
		Work Description	Expansion Capacity of Roadway									
				Funding Source	Local							
				Year to Program Work	2021							
		COST ESTIMATE FOR RIGHT OF WAY			UNITS	QUAN	UNIT	TOTAL	USES FEDERAL	FEDERAL	LOCAL	
		RIGHT OF WAY COST (Required for Budget, May be 0 if no ROW)		Appraisals and Title Reports	LS	0	-	\$ -	No	-	-	
				Road Right of Way	LS	0	-	\$ -	No	-	-	
				Temporary Construction Easements	LS	0	-	\$ -	No	-	-	
				Drainage Easement	LS	0	-	\$ -	No	-	-	
				Utility Easements/Right of Way	LS	0	-	\$ -	No	-	-	
				Aerial Electrical Easement	LS	0	-	\$ -	No	-	-	
				Sign Relocations	LS	0	-	\$ -	No	-	-	
				Relocation Expenses	LS	0	-	\$ -	No	-	-	
				Site Environmental Assessments	EA	0	-	\$ -	No	-	-	
				Building Demolition	EA	0	-	\$ -	No	-	-	
				Other Right of Way Expenses		0	-	\$ -	No	-	-	
				Other Right of Way Expenses		0	-	\$ -	No	-	-	
				Other Right of Way Expenses		0	-	\$ -	No	-	-	
		TOTAL - RIGHT OF WAY COSTS					\$ -			-		
		CONSTRUCTION	REQUESTED PROGRAMMING (Complete only if Construction will be programmed in the MAG TIP)	Location Description	Winchester Rd from 29th Ave to Southern Ave							
Work Description	Expansion Capacity of Roadway											
				Funding Source	STBGP-MAG							
				Year to Program Work	2023							
COST ESTIMATE FOR CONSTRUCTION					UNITS	QUAN	UNIT	TOTAL	USES FEDERAL	FEDERAL	LOCAL	
UTILITY RELOCATIONS (Required for Budget, May be 0 if no Utilities)				Relocate 69 kv (+) Poles	EA	0	-	\$ -	No	-	-	
				Relocate/Underground 12 kv lines	LF	0	-	\$ -	No	-	-	
				Relocate/Underground Irrigation Canal	LF	0	-	\$ -	No	-	-	
				SWG Relocations	LS	0	-	\$ -	No	-	-	
				Telephone/Cable TV Relocations	LS	0	-	\$ -	No	-	-	
				Upgrade Railroad Crossings	LS	0	-	\$ -	No	-	-	
				Water Relocations	LS	1	75,000	\$ 75,000.00	Yes	70,725	4,275	
				Other Utilities	LS	0	-	\$ -	No	-	-	
				SUBTOTAL - UTILITY RELOCATION COSTS					\$ 75,000.00		70,725	4,275
				CONSTRUCTION (Required for Budget)		Contractor Mobilization	LS	1	-	\$ -	Yes	-
HAZMAT Abatement	LS					1	10,000	\$ 10,000.00	Yes	9,430	570	
Construction Survey and Layout	LS					1	40,000	\$ 40,000.00	Yes	37,720	2,280	
Temporary Traffic Control	LS					1	-	\$ -	Yes	-	-	
Remove Existing Improvements	LS					1	10,000	\$ 10,000.00	Yes	9,430	570	
Remove Curb and Gutter	LF					464	7	\$ 3,248.00	Yes	3,063	185	
Remove Pavement	SY	5,622	3			\$ 16,866.00	Yes	15,905	961			
Remove Driveway	SF	750	4			\$ 3,000.00	Yes	2,829	171			
Remove Concrete Sidewalks, Slabs	SF	2,796	4			\$ 11,184.00	Yes	10,547	637			
General Excavation	LS	1	20,880			\$ 20,880.00	Yes	19,690	1,190			
Drainage Excavation	LS	1	50,000			\$ 50,000.00	Yes	47,150	2,850			
Backfill/Borrow Material	LS	1	21,735			\$ 21,735.00	Yes	20,496	1,239			
AC Pavement including ABC Base	TON	3,750	90			\$ 337,500.00	Yes	318,263	19,238			
Concrete Pavement including ABC Base	SY					\$ -	No	-	-			
AC Mill and Overlay	SY					\$ -	No	-	-			
Curb and Gutter	LF	1,722	22			\$ 37,884.00	Yes	35,725	2,159			
Aggregate Base	CY	2,220	45			\$ 99,900.00	Yes	94,206	5,694			
Concrete Driveways	SF	2,721	10			\$ 27,210.00	Yes	25,659	1,551			
Colored Concrete	SF					\$ -	No	-	-			
Concrete Pavers	SF					\$ -	No	-	-			
Stamped Asphalt	SF					\$ -	No	-	-			
Stamped Concrete	SF					\$ -	No	-	-			
Concrete Sidewalk	SF	10,180	6			\$ 61,080.00	Yes	57,598	3,482			
Pedestrian ADA Ramps	EA	4	2,500			\$ 10,000.00	Yes	9,430	570			
Bus Bay	EA					\$ -	No	-	-			
Bus Shelters	EA					\$ -	No	-	-			
Irrigation Pipeline	LF					\$ -	No	-	-			
Irrigation Canal relocation	LF					\$ -	No	-	-			
Irrigation Canal Culvert/Bridge Crossing	EA					\$ -	No	-	-			
Decorative Screen Walls	LF					\$ -	No	-	-			
Retaining Wall	SF					\$ -	No	-	-			
Electrical Service Connection	EA					\$ -	No	-	-			
Joint Trench Conduit, including City Spare	LF					\$ -	No	-	-			
Traffic Signal Intertie	LF					\$ -	No	-	-			
Traffic Signal	EA					\$ -	No	-	-			
Temporary Traffic Signal	EA			\$ -	No	-	-					
Traffic Signage and Markings	LS	1	20,000	\$ 20,000.00	Yes	18,860	1,140					
Street Lighting including conduit and trenching	EA	4	13,000	\$ 52,000.00	No	-	52,000					
Pedestrian Lighting including conduit and trenching	EA			\$ -	No	-	-					
Safety Rail	LF	590	40	\$ 23,600.00	Yes	22,255	1,345					
Utility Protection and Adjustments	LS			\$ -	No	-	-					
Adjust Water Valve	EA	11	400	\$ 4,400.00	No	-	4,400					
Relocate Fire Hydrant	EA	2	1,000	\$ 2,000.00	No	-	2,000					
Adjusted Manholes	EA	5	500	\$ 2,500.00	No	-	2,500					
Drainage Catch Basins and Scuppers	EA	10	9,000	\$ 90,000.00	No	-	90,000					
Storm Drain 60" (Cast-in-Place)	LF	1,305	275	\$ 358,875.00	No	-	358,875					
Storm Drain 36"	LF			\$ -	No	-	-					
Storm Drain 24"	LF			\$ -	No	-	-					
Storm Drain 18"	LF	123	120	\$ 14,760.00	No	-	14,760					
New Waterline 8"	LF			\$ -	No	-	-					
New Waterline 12"	LF			\$ -	No	-	-					
New Waterline 16"	LF			\$ -	No	-	-					
New Sanitary Sewer 8"	LF			\$ -	No	-	-					
New Sanitary Sewer 12"	LF			\$ -	No	-	-					
Trees (36" box)	EA			\$ -	No	-	-					
Tree Grates	EA			\$ -	No	-	-					
Trees (24" box)	EA			\$ -	No	-	-					

PROJECT COST ESTIMATE WORKSHEET
(Cost Estimates Are Required Regardless of Programming)

		Shrubs (5 gallon)	EA		\$	-	No	-	-
		Shrubs (1 gallon)	EA		\$	-	No	-	-
		Cactus (5 gallon)	EA		\$	-	No	-	-
		Decomposed Granite	SY	5,700	3	\$ 17,100.00	Yes	16,125	975
		Topsoil	SY			\$ -	No	-	-
		Seeding	Acce			\$ -	No	-	-
		Sod	SY			\$ -	No	-	-
		Boulders	EA			\$ -	No	-	-
		Irrigation System - Drip	LS			\$ -	No	-	-
		Irrigation System - Turf	LS			\$ -	No	-	-
		Irrigation Booster Pump	EA			\$ -	No	-	-
		Landscape Header Curb	LF			\$ -	No	-	-
		Landscape Establishment	LS			\$ -	No	-	-
		Benches/Seatwalls	EA			\$ -	No	-	-
		Bike Racks	EA			\$ -	No	-	-
		Trash Receptacles	EA			\$ -	No	-	-
		Drinking Fountains	EA			\$ -	No	-	-
		Subgrade Preparation	SY	6,445	8	\$ 51,560.00	Yes	48,621	2,939
		Valley Gutter	SF	721	8	\$ 5,768.00	Yes	5,439	329
		Storm Drain Manhole Base & Shaft	EA	5	9,000	\$ 45,000.00	No	-	45,000
		Place for entering an additional item #4				\$ -	No	-	-
		Place for entering an additional item #5				\$ -	No	-	-
		Place for entering an additional item #6				\$ -	No	-	-
		Place for entering an additional item #7				\$ -	No	-	-
		Place for entering an additional item #8				\$ -	No	-	-
		Place for entering an additional item #9				\$ -	No	-	-
		Place for entering an additional item #10				\$ -	No	-	-
		Place for entering an additional item #11				\$ -	No	-	-
		Place for entering an additional item #12				\$ -	No	-	-
		Place for entering an additional item #13				\$ -	No	-	-
		Place for entering an additional item #14				\$ -	No	-	-
		Place for entering an additional item #15				\$ -	No	-	-
		Place for entering an additional item #16				\$ -	No	-	-
		Place for entering an additional item #17				\$ -	No	-	-
		Place for entering an additional item #18				\$ -	No	-	-
		Place for entering an additional item #19				\$ -	No	-	-
		Place for entering an additional item #20				\$ -	No	-	-
		SUBTOTAL - CONSTRUCTION COST				\$ 1,448,050.00		828,440	619,610
	MOBILIZATION AND ADMINISTRATION COSTS	CONTRACTOR MOBILIZATION (Typically 8% of construction cost)		5%		\$ 72,402.50	Yes	68,276	4,127
		TRAFFIC CONTROL (0-8% of construction cost)		5%		\$ 72,402.50	Yes	68,276	4,127
		CONSTRUCTION CONTINGENCIES (Typically 5% of construction cost)		5%		\$ 72,402.50	Yes	68,276	4,127
		CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)		18%		\$ 260,649.00	Yes	245,792	14,857
		SUBTOTAL - MOBILIZATION & ADMINISTRATION COSTS				\$ 477,856.50		450,619	27,238
		TOTAL UTILITIES, CONSTRUCTION AND MOBILIZATION FOR PROGRAMMING				\$ 2,000,906.50		1,349,783	651,123
ADOT REVIEW FEE	Please enter 'Yes' if your agency is certified accepted by ADOT for construction		No						
	ADOT Review Fee	Agency Ty	RATE	HOURS	TOTAL	USES FEDERAL AID	FEDERAL	LOCAL	
		Contracts and Specs \ Advertise Project	Non CA	55	100	\$ 5,500	Yes	-	5,500
		District \ Review Stage Submittals	Non CA	50	40	\$ 2,000	Yes	-	2,000
		Environmental Planning \ Issue Clearance	All	50	40	\$ 2,000	Yes	-	2,000
		Right of Way \ Issue Clearance	Non CA	55	24	\$ 1,320	Yes	-	1,320
		Compliance Review\ Compliance Review	Non CA	175	40	\$ 7,000	Yes	-	7,000
		Project Management Group\ Project Management	Non CA	120	100	\$ 12,000	Yes	-	12,000
		Project Management Group\ Project Management	CA Only	120	60	\$ -	Yes	-	-
		Utilities and Railroad Sections\ Issue Clearance	Non CA	50	24	\$ 1,200	Yes	-	1,200
					\$ 31,020			31,020	
TOTAL COST ESTIMATE						\$ 2,351,927		1,349,783	1,002,143

Budget and Signature Page

Phase	Location Description	Work Description	Year to be Programmed	Funding Source	Federal Amount	Local Amount	Total	Local Share
Design, excludes ADOT review fees	Winchester Rd from 29th Ave to Southern Ave	Expansion Capacity of Roadway	2021	Local	\$ -	\$ 320,000	\$ 320,000	100.0%
Construction	Winchester Rd from 29th Ave to Southern Ave	Expansion Capacity of Roadway	2023	STBGP-MAG	\$ 1,349,783	\$ 651,123	\$ 2,000,907	32.5%
Total Programmed					\$ 1,349,783	\$ 971,123	\$ 2,320,907	41.8%
ADOT Design Review Fee					\$ -	\$ 31,020	\$ 31,020	100.0%
Total Cost					\$ 1,349,783	\$ 1,002,143	\$ 2,351,927	42.6%

Signature: To be signed with printed hard copy that is sent to MAG

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 (Optional):



Name: Micheal Wever

Title: Public Works Director

Date: 09/10/20

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Checklist (Optional)		
Instructions	1. This page must be submitted with the printed copy of the application 2. It must be signed by the jurisdiction's manager/administer or designated representative 3. The checklist at the bottom of the sheet is optional	
Category	Data Item	Item Enter (Yes/No)
Project Page		
1. Project Sponsorship	Project Sponsor Name	yes
	Other Participating Agencies	yes
2. Project Location	Identify the Project Location (50 Char Limit)	yes
	Attach a map depicting the project.	yes
	Attach a vicinity map of the project	yes
3. Project Work Description	Provide a short work description (50 char limit)	yes
	Overview - please describe the work to be performed, its benefits and costs	yes
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	
	Name of Nearest Employment Center	yes
	Approximate Number of Employees at the center	yes
	Distance to the project	yes
	Commercial Center	
	Name of Nearest Commercial Center	yes
	Approximate Square Footage of the Commercial Center	yes
5. Regional Connectivity	Connectivity	yes
	If the check box above is checked, briefly discuss how the project improves regional/multijurisdictional connectivity.	yes
6. Agency Plans	Included in Agency Plans	yes
	If the check box above is checked, briefly discuss jurisdiction General/Transportation Plan and the role of the project in the plan.	yes
7. Community Involvement	Is the project a community request	yes
Roadway Page(s) - Check all roadway pages submitted for funding		
1. Roadway Location	Roadway Name	yes
	Starting Limit	yes
	Ending Limit	yes
	Length (to nearest 10th of a mile)	yes
2. Federal Functional Classification	Please select the federal functional classification of the roadway	yes
3. Current Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	yes
	Attach a photo(s) of the current roadway	yes
	Number of Through Lanes (Both directions)	yes
4. Bridge Condition (Required only for bridge projects)	Bridge Sufficiency Rating (from ADOT NBI Table)	no
	Bridge Status (from ADOT NBI Table)	no
5. Pavement Condition	Pavement Type	yes
	Pavement Rating	yes
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	yes
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	yes
	Date of Rating	yes
6. Traffic	Rating	yes
	Traffic Count	
	Please describe how the count was collected	yes
	Date of Count	yes
	AADT	yes
	K-Factor - Percent of traffic in the peak hour	yes
	D-Factor - Percent of design hour volume flowing in the peak hour direction	yes
	Number of lanes in the Peak Hour Direction	yes
Posted Speed Limit (mph)	yes	
7. Safety	Peak Hour Speed (mph)	yes
	Name and limits for crash data.	yes
	Number of fatality crashes	yes
	Number of incapacitating crashes	yes
	Number of non incapacitating crashes	yes
8. Multimodal	Number of possible injury crashes	yes
	Number of property damage only crashes	yes
9. Proposed Functional Classification	Multimodal characteristics (check all that apply)	yes
10. Proposed Typical Cross Section	Please select the federal functional classification of the roadway	yes
	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	yes
11. Access Control Improvements	Number of Through Lanes on the improved roadway (Both directions)	yes
	Please describe access control issues and proposed improvements	yes
12. Alignment Improvements	Describe horizontal alignment issues and proposed improvements	yes

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Checklist (Optional)		
Instructions	1. This page must be submitted with the printed copy of the application 2. It must be signed by the jurisdiction's manage/administer or designated representative 3. The checklist at the bottom of the sheet is optional	
Category	Data Item	Item Enter (Yes/No)
	Describe vertical alignment and proposed improvements	yes
13. Drainage Improvements	Describe drainage issues and proposed improvements	yes
14. Bridge improvements (Required for bridge projects only)	Describe Bridge issues and proposed Improvements	yes
15. Pavement Improvements	Proposed Pavement Type	yes
	Describe the current condition of the pavement and proposed improvements	yes
16. Traffic Improvements	Describe traffic issues and proposed Improvements	yes
17. Safety Improvements	Describe safety issues and proposed Improvements	yes
18. Multimodal Improvements	Describe multimodal issues and proposed Improvements	yes
19. Environmental	Please describe environmental impacts or challenges of the project - e.g. endanger species, cultural assets, hazardous materials sites, 4Fs, Title VI populations, wet lands that would be affected by the project.	yes
20. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, how much right-of-way will be required, if right-of-way is needed are actors such as the State Lands Department be involved, etc.	yes
21. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	yes
22. Utilities	Please describe utilities that could impact the proposed project	yes
Intersection Page(s) - Check all intersection pages submitted for funding		
1. Intersection Location	Roadway Name A	no
	Roadway Name B	no
2. Federal Functional Classification	Federal Functional Classification of Roadway A	no
	Federal Functional Classification of Roadway B	no
4. Current Intersection Configuration	Attach an intersection diagram	no
	Attach a photo(s) of the current intersection	no
	Number of through lanes	
	Roadway A	no
	Roadway B	no
5. Pavement Condition	Pavement Type	no
	Pavement Rating	no
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	no
	Rating system scale - please describe the scale used in the rating system - e.g. it ranges from 1 to 100 with 100 being the best condition.	no
	Date of Rating	no
	Rating	no
6. Traffic	Traffic Volume in the Peak Hour by approach	
	Approach 1 traffic volume	no
	Approach 2 traffic volume	no
	Approach 3 traffic volume	no
	Approach 4 traffic volume	no
7. Safety	Name and limits for crash data.	no
	Number of fatality crashes	no
	Number of incapacitating crashes	no
	Number of non incapacitating crashes	no
	Number of possible injury crashes	no
	Number of property damage only crashes	no
8. Multimodal	Multimodal characteristics (check all that apply)	no
9. Federal Functional Classification	Federal Functional Classification of Roadway A	no
	Federal Functional Classification of Roadway B	no
10. Proposed Typical Cross Section	Attach a cross section diagram that details a typical cross section of the roadway to be improved.	no
11. Access Control Improvements	Please describe access control issues and proposed improvements	no
12. Pavement Improvements	Proposed Pavement Type	no
	Describe pavement issues and proposed Improvements	no
13. Traffic Improvements	Traffic Congestion	no
	Describe traffic issues and proposed Improvements	no
14. Safety Improvements	Safety Impacts	no
	Describe safety issues and proposed Improvements	no
15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	no
16. Environmental	Please describe environmental impacts or challenges of the project - e.g. endanger species, cultural assets, hazardous materials sites that would be affected by the project.	no
17. Right-of-way	Please describe right-of-way issues - e.g. whether right-of-way will be required, actors such as the State Lands Department will be involved, etc.	no
18. Development Activity	Please describe planned and ongoing development activity that could impact the proposed project	no
19. Utilities	Please describe utilities that could impact the proposed project	no

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Checklist (Optional)		
Instructions	1. This page must be submitted with the printed copy of the application 2. It must be signed by the jurisdiction's manage/administer or designated representative 3. The checklist at the bottom of the sheet is optional	
Category	Data Item	Item Enter (Yes/No)
Safety Counter Measures Sheet		
Safety Counter Measures	Measures 1-44 Completed	yes
PROJECT COST ESTIMATE WORKSHEET		
DESIGN	REQUESTED PROGRAMMING (Complete if Item will be programmed in the MAG TIP)	Yes
	Location Description	yes
	Work Description	yes
	Funding Source	yes
	Year to Program Work	yes
	PRELIMINARY ENGINEERING (15% plans) (Required for Budget)	yes
RIGHT OF WAY	FINAL DESIGN (30, 60, 95, 100% plans) (Required for Budget)	yes
	REQUESTED PROGRAMMING (Complete only if Right Of Way will be programmed in the MAG TIP)	yes
	Location Description	yes
	Work Description	yes
	Funding Source	yes
	Year to Program Work	yes
CONSTRUCTION	RIGHT OF WAY COST (Required for Budget, May be 0 if no ROW)	yes
	REQUESTED PROGRAMMING (Complete only if Construction will be programmed in the MAG TIP)	yes
	Location Description	yes
	Work Description	yes
	Funding Source	yes
	Year to Program Work	yes
ADOT REVIEW FEE	UTILITY RELOCATIONS (Required for Budget, May be 0 if no Utilities)	yes
	CONSTRUCTION (Required for Budget)	yes
	MOBILIZATION AND ADMINISTRATION COSTS	yes
	Please enter 'Yes' if your agency is certified accepted by ADOT for construction (Cell D199)	no
Budget and Signature Page		
Signature Area	(OPTIONAL) Signature	yes
	Name	yes
	Title	yes
	Date	yes

Apache Junction - Winchester Rd from 29th Ave to Southern Ave Checklist (Optional)		
Instructions	1. This page must be submitted with the printed copy of the application 2. It must be signed by the jurisdiction's manager/administer or designated representative 3. The checklist at the bottom of the sheet is optional	
Category	Data Item	Item Enter (Yes/No)
Safety Counter Measures Sheet		
Safety Counter Measures	Measures 1-44 Completed	
PROJECT COST ESTIMATE WORKSHEET		
DESIGN	REQUESTED PROGRAMMING (Complete if item will be programmed in the MAG TIP) Location Description Work Description Funding Source Year to Program Work PRELIMINARY ENGINEERING (15% plans) (Required for Budget) FINAL DESIGN (30, 60, 95, 100% plans) (Required for Budget)	
RIGHT OF WAY	REQUESTED PROGRAMMING (Complete only if Right Of Way will be programmed in the MAG TIP) Location Description Work Description Funding Source Year to Program Work RIGHT OF WAY COST (Required for Budget, May be 0 if no ROW)	
CONSTRUCTION	REQUESTED PROGRAMMING (Complete only if Construction will be programmed in the MAG TIP) Location Description Work Description Funding Source Year to Program Work UTILITY RELOCATIONS (Required for Budget, May be 0 if no Utilities) CONSTRUCTION (Required for Budget) MOBILIZATION AND ADMINISTRATION COSTS	
ADOT REVIEW FEE	Please enter 'Yes' if your agency is certified accepted by ADOT for construction (Cell D199)	
Budget and Signature Page		
Signature Area	(OPTIONAL) Signature Name <u>MIKE WEVER</u> Title <u>PUBLIC WORKS DIRECTOR</u> Date <u>9/10/20</u>	

Instructions for the Submittal of GIS Data for CMAQ Funding Applications

It is preferred that, when possible, member agencies submit GIS data representing the locations of projects defined in their CMAG Applications. For member agencies unable to meet this requirement, MAG staff is available to assist in this area. Please contact Nicole Funicello at nfunicello@azmag.gov if assistance is needed.

Submission Requirements

GIS Data – Please provide GIS data for each geometry type (point, line, polygon). Example: if you are submitting Project Applications that are for both linear features (bike lanes) and point features (crossings), you would submit a total of two GIS datasets.

File Formats – Agencies that are able to submit GIS data along with CMAQ Applications shall provide the data in formats that are compatible with ESRI products such as shapefiles (.SHP) or Geodatabases (.GDB). Google Earth files (.KMZ or .KML) are also acceptable file formats.

Spatial Reference – The preferred spatial reference system of submitted GIS data is State Plane Arizona Central NAD 83 HARN, however, GIS datasets in any other projection will be accepted.

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

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

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

