

**Florence - Intersection of SR 287 and SR 79B in Florence, Ari
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.	
1. Project Sponsorship	Project Sponsor Name	Florence
	Other Participating Agencies	Arizona Department of Transportation (ADOT) - A letter of support is included in Attachment 1.
2. Project Location	Identify the Project Location (50 Char Limit)	Intersection of SR 287 and SR 79B in Florence, Arizona
	Attach a map depicting the project.	Attachment 2
	Attach a vicinity map of the project	Attachment 3
3. Project Work Description	Provide a short work description (50 char limit)	Intersection improvements at SR 287 and SR 79B
	Overview - please describe the work to be performed, its benefits and costs	The SR287/SR 79B Intersection Improvement Project entails the reconstruction of the intersection from a rural configuration that only serves vehicular traffic to an urban configuration that serves multi-modal uses in the surrounding commercial area. The improvements will increase safety by reducing the number of expected crashes. The improvements will optimize traffic operations for the projected design year 2040 traffic demand. Specifically, the project will improve traffic operations with the anticipated growth that will be driven by planned developments in the vicinity. The improvements will add new pedestrian and bicycle features to provide multi-modal access to the surrounding land uses. New bike lanes and sidewalks will improve accessibility as requested by the Town Council in their recently adopted Strategic Plan. The project will improve the current geometry of the intersection that has several potential conflict points throughout the intersection. The intersection is considered a gateway into the Town and the conversion to an urban style intersection with multi-modal improvements will have a significant impact on potential economic development in the area. The estimated total cost of the project is over \$4M.
4. Proximity to the Nearest Employment and Commercial Center	Employment Center	
	Name of Nearest Employment Center	The Town of Florence, Pinal County, Arizona State Prison and private prison facilities are among the major employers in Florence's employment center. SR 287 is a major access point to the Town of Florence and the Arizona State Prison from Pinal, Maricopa, and Pima Counties. The intersection of SR 287 and SR 79B is a gateway into Florence's employment center. Approximately 4,600 people commute into Florence's employment center each week day for work.
	Approximate Number of Employees at the center	6,000
	Distance to the project	< 1 mile
	Commercial Center	
	Name of Nearest Commercial Center	Downtown is the historic commercial core in Florence. Downtown Florence begins at the intersection of SR 287 and SR 79B and extends north past SR 79B to the Florence Town Hall.
	Approximate Square Footage of the Commercial Center	213,000
	Distance to the project	< 1 mile
5. Regional Connectivity	Does the Project Improve Connectivity	Yes

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	<p>If answer above was yes, briefly discuss how the project improves regional/multijurisdictional connectivity.</p>	<p>SR 287 is a two-lane urban minor arterial that runs east to west providing connectivity between the Town of Florence and the cities of Coolidge and Eloy. SR 287 also provides access to Interstate 10 (I-10). SR 79 is a two-lane urban minor arterial that runs to US 60 and south to SR 77 connecting the communities located between Tucson and Phoenix. SR 79B provides business access through downtown Florence. The project will improve connectivity by accommodating the projected increase in traffic volume as well as improving the level of service for queue lengths and travel times.</p>

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6. Agency Plans	IS the project included in Agency Plans If the check box above is checked, briefly discuss jurisdiction General/Transportation Pan and the role of the project in the plan.	Yes The project is listed in the FY2007-2016 Florence Capital Transportation Improvement Program as part of the implementation strategy of the Coolidge-Florence Regional Transportation Plan. The plan analyzed current conditions, identified issues, projected future conditions, and made recommendations for improvements in the Coolidge-Florence area. In the plan, SR287 and SR79B are identified as regionally significant roadways that provide regional highway access and acts as arterials for the Town. The project is a cooperative effort between ADOT and Florence and has been in the planning stage for more than 10 years. However, ADOT has not identified any funding to construct the project.
7. Community Involvement	Is the project a community request If the check box above is checked, briefly describe the nature of the community request.	Yes The project is listed in the Coolidge-Florence Regional Transportation Plan that received public input at two open houses in Florence and two open houses in Coolidge.

**Florence - Intersection of SR 287 and SR 79B in Florence, Ari
Traffic Intersection Sheet**

1. Intersection Location	Roadway Name A	SR 287
	Roadway Name B	SR 79B
Current Intersection Characteristics		
2. Federal Functional Classification	Federal Functional Classification of Roadway A	Minor Arterial
	Federal Functional Classification of Roadway B	Minor Arterial
	Link to Functional Classification Maps	
4. Current Intersection Configuration	Attach an intersection diagram	(Attach an intersection diagram that details all lanes (through, left and center lanes) and associated widths) Attachment 4
	Attach a photo(s) of the current intersection	Attachment 5
	Number of through lanes	
	Roadway A	2
	Roadway B	2
5. Pavement Condition	Pavement Type	Asphaltic Concrete
	Pavement Rating	
	Name or Description of Rating System Used - e.g. PCI, PSR, etc..	The rating system used is the Arizona Annual System Performance Measures that evaluates pavement condition on the state highway system using the International Roughness Index (IRI).
	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.	The IRI scale consists of Good IRI <93, Fair 93<IRI>142, and Poor IRI>142.
	Date of Rating	11/30/2015
	Rating	SR 287 ranges from 37 (Good) to 175 (Poor). SR 79 B ranges from 79 (Good) to 174 (Poor). ADOT IRI data is included in Attachment 6.
6. Traffic	Traffic Volume in the Peak Hour by approach	
	Approach 1 traffic volume (Mid Block)	2,032
	Approach 2 traffic volume (Mid Block)	9,350
	Approach 3 traffic volume (Mid Block)	7,347
	Approach 4 traffic volume (Mid Block)	2,982

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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.	Intersections of SR 79B and Florence Heights Drive, SR 79B and SR 287, and SR 287 and Campbell Road. SR 79B between Florence Heights Drive north past Keating Street. Attachment 7 contains the Crash Diagram map.
	Number of fatality crashes	0
	Number of incapacitating crashes	0
	Number of non incapacitating crashes	0
	Number of possible injury crashes	8
	Number of property damage only crashes	16
8. Multimodal	Does the roadway have a transit Route?	Yes
	Does the roadway have a striped bicycle lanes?	No

Proposed Intersection Characteristics and Improvements

9. Federal Functional Classification	Federal Functional Classification of Roadway A	Minor Arterial
	Federal Functional Classification of Roadway B	Minor Arterial
	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 an intersection diagram that details all lanes (through, left and center lanes) and associated widths) Attachment 8
11. Access Control Improvements	Please describe access control issues and proposed improvements	Keating Street is a local street that has right-in-right-out access onto SR 79B at the intersection with SR 287. It provides access for several residences and a business on the southeast corner. The land uses also have access to the state routes via Florence Heights Drive or Celaya Street. West Canal Road has access to SR 79B across from Florence Heights Drive. Canal Road is a dirt road that is a service road for the Casa Grande Irrigation Canal. West Canal Road is an access for a residence located approximately 500 ft to the south of Florence Heights Dr. All existing access locations will be maintained or relocated. Attachment 9 includes the Existing Traffic Control map.
12. Pavement Improvements	Proposed Pavement Type	Asphaltic Concrete
	Describe pavement issues and proposed Improvements	A preliminary pavement structure of 6 inches of AC on top of 6 inches of aggregate base has been chosen. This section yields a structural number of 3.41 which is higher than the calculated required number. The structural coefficients used for AC and aggregate base materials were 0.44 and 0.14. A drainage coefficient of 0.93 was assigned based on the ADOT Materials Design Manual for good drainage conditions and with a seasonal variation factor for the Florence area of 1.3. The required pavement structural number is 2.79 based on the design parameters described above.
13. Traffic Improvements	Improves traffic throughput in the intersection	Yes
	Describe traffic issues and proposed Improvements	Vehicles have to navigate a series of conflict points that are either stop or yield controlled. In addition, vehicles have to weave between lanes to get to the desired destination. The merge point of eastbound SR 287 and northbound SR 79B is one of the nodes that is yield controlled with vehicles on SR 287 having to yield the right-of-way to vehicles on SR 79B. Proposed improvements include a multi-lane roundabout and a single-lane roundabout intersection that creates an east-west through movement that does not exist under current conditions. Attachment 9 contains a diagram of the preferred double roundabout .
14. Safety Improvements	Addresses safety issues at a current intersection	Yes
	Describe safety issues and proposed Improvements	There is a fairly equal distribution of crash types, with no crash type being significantly greater than the others. A majority, 96%, of crashes involved two vehicles and 4% of crashes involved three vehicles. With the installation of a roundabout, there is an expected 48% reduction in the total number of crashes compared to a signalized intersection.

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15. Multimodal Improvements	Describe multimodal issues and proposed Improvements	Sidewalks exist on the northwest quadrant of the intersection and along Main Street. The project includes bicycle and pedestrian accommodations within the project limits including sidewalks, ADA ramps, crosswalks, and bike lanes or paved shoulders.
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Traffic Intersection Sheet

Proposed Intersection Characteristics and Improvements

<p>16. Environmental</p>	<p>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.</p>	<p>Data recovery efforts will be required for any work located within the project area. The data recovery area is estimated to be 5 acres. When the demolition of existing pavement is taken into consideration, the entire existing right of way will be impacted by project activities. A Group 2 Programmatic Categorical Exclusion document is anticipated for hte project.Supporting documents will be completed and submitted that include a biological evaluation, hazardous materials assessment, and a Class III cultural resource analysis. Stormwater quality and erosion/sediment plans also will be prepared.</p>
<p>17. Right-of-way</p>	<p>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.</p>	<p>The existing right of way width along both SR287 and SR 79B varies throughout the project area due to the large intersection configuration. The typical right of way width along SR 287 west of the project is 100 feet. South of the project, SR 79B has a typical right of way width of 200 feet. Main Street also known as SR 79B has a right of way width of 100 feet north of the proposed intersection. Florence Heights Drive features a narrow 50 foot wide right of way. The current intersection between Florence Heights Drive and SR 79B appears to be built outside of the right of way. All of the alternative improvements will rectify this condition by acquiring additional right of way to accommodate the ultimate cross section.</p>
<p>18. Development Activity</p>	<p>Please describe planned and ongoing development activity that could impact the proposed project</p>	<p>The Florence 2020 General Plan indicates higher intensity land uses surrounding the intersection. Future development may fit into the categories of Downtown Mixed Use, Community Commercial, and Medium/High Density Residential.</p>
<p>19. Utilities</p>	<p>Please describe utilities that could impact the proposed project</p>	<p>Several utilities have been identified within the project limits that include APS electric service, Cox Communications cable service, CenturyLink telecommunications cables, San Carlos Irrigation District - Casa Grande Irrigation Canal, SW Gas underground gas lines, and Town of Florence underground storm drain. Potential conflicts with the SW Gas underground gas lines and Town of Florence storm drain pipes may require relocations. In pavement, water valves and manholes will be adjusted to the final grade of the improved road.</p>

Florence - Intersection of SR 287 and SR 79B in Florence, Ari Safety Counter Measures Sheet	
Instructions	1. This sheet only 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)	Yes
3. 12 inch signal heads all faces all directions	No
4. Actuated advance warning dilemma zone protection system	No
5. 3-inch yellow retroreflective sheeting to signal backplates	No
6. Advance street name signs	Yes
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	No
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
27. Modern roundabout where a signalized intersection exists	No
28. Modify zero or negative left-turn lane offset to create positive offset	No
29. New left-turn lanes with positive offset	No
30. Pavement friction (Microsurfacing, Open Graded Friction Course, High Friction Surfacing)	Yes

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Instructions	1. This sheet only required for all projects. 2. Please enter a 'Yes' or 'No' to each safety feature that is included in the project.
31. Pedestrian hybrid beacon (PHB or HAWK)	No
32. Positive offset left-turn lanes on both major road approaches	No
33. Protected only left-turn signal equipment	No
34. Protected-permissive left-turn signal equipment	No
35. Raised median	Yes
36. Right-turn lane geometry with increased line of sight	Yes
37. Roundabout at a high-speed 3 or 4 leg rural intersection	Yes
38. Rural two lane roads with TWLTL (two-way left turn lanes)	No
39. Safety edge treatment on rural highways	No
40. Single- or multi-lane roundabout at a two-way stop-controlled intersection	Yes
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	No

**Florence - Intersection of SR 287 and SR 79B in Florence, Ari
MAG PINAL AREA STP PROJECTS COST ESTIMATE WORKSHEET
(Cost Estimates Are Required)**

<p>Instructions</p> <p>1. Cost estimates from this sheet transfer directly to the budget estimate 2. Please select "Yes" if the item will be programmed in a federally funded work phase</p>								
	ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	PROGRAMMED WITH FEDERAL FUNDS	FEDERAL SHARE	LOCAL SHARE
PRELIMINARY ENGINEERING <i>(Required for Budget)</i>	Topographic Survey	LS	1	\$ 60,000.00	\$ 60,000.00	No	\$ -	\$ 60,000.00
	Design Concept Report (DCR)	LS	1	\$ 314,900.00	\$ 314,900.00	No	\$ -	\$ 314,900.00
	Federal Project Environmental Determination	LS	1	\$ 200,000.00	\$ 200,000.00	No	\$ -	\$ 200,000.00
	HAZMAT Assessment	LS	1	\$ 25,000.00	\$ 25,000.00	No	\$ -	\$ 25,000.00
	SUBTOTAL - PRELIMINARY ENGINEERING COSTS					\$ 599,900.00		\$ -
FINAL DESIGN <i>(Required for Budget)</i>	Plans, Specifications, Cost Estimates, Bidding	LS	1	\$ 350,000.00	\$ 350,000.00	No	\$ -	\$ 350,000.00
	Geotechnical Report	LS	1	\$ 30,000.00	\$ 30,000.00	No	\$ -	\$ 30,000.00
	Drainage Report	LS	1	\$ 20,000.00	\$ 20,000.00	No	\$ -	\$ 20,000.00
	SWPPP	LS	1	\$ 30,000.00	\$ 30,000.00	No	\$ -	\$ 30,000.00
	SUBTOTAL - FINAL DESIGN COSTS					\$ 430,000.00		\$ -
RIGHT OF WAY <i>(Required for Budget, May be 0 if now ROW)</i>	Appraisals and Title Reports	LS	1		\$ -	No	\$ -	\$ -
	Road Right of Way	LS	1	\$ 250,000.00	\$ 250,000.00	No	\$ -	\$ 250,000.00
	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	1		\$ -	No	\$ -	\$ -
	Building Demolition	EA	1		\$ -	No	\$ -	\$ -
	Other Right of Way Expenses				\$ -	No	\$ -	\$ -
	Other Right of Way Expenses				\$ -	No	\$ -	\$ -
	Other Right of Way Expenses	EA	1		\$ -	No	\$ -	\$ -
SUBTOTAL - RIGHT OF WAY COSTS					\$ 250,000.00		\$ -	\$ 250,000.00
UTILITY RELOCATIONS <i>(Required for Budget, May be 0 if now Utilities)</i>	Relocate 69 kv (+) Poles	EA	1		\$ -	No	\$ -	\$ -
	Relocate/Underground 12 kv lines	LF			\$ -	No	\$ -	\$ -
	Relocate/Underground Irrigation Canal	LF			\$ -	No	\$ -	\$ -
	SWG Relocations	LS	1		\$ 100,000.00	No	\$ -	\$ 100,000.00
	Telephone/Cable TV Relocations	LS	1		\$ -	No	\$ -	\$ -
	Upgrade Railroad Crossings	LS	1		\$ -	No	\$ -	\$ -
	Other Utilities	LS	1		\$ 100,000.00	No	\$ -	\$ 100,000.00
	Other Utilities	LS	1		\$ -	No	\$ -	\$ -
	SUBTOTAL - UTILITY RELOCATION COSTS					\$ 200,000.00		\$ -
CONSTRUCTION <i>(Required for Budget)</i>	Contractor Mobilization	LS	1	\$ 175,000.00	\$ 175,000.00	Yes	\$ 165,025.00	\$ 9,975.00
	HAZMAT Abatement	LS	1		\$ -	Yes	\$ -	\$ -
	Construction Survey and Layout	LS	1	\$ 25,000.00	\$ 25,000.00	Yes	\$ 23,575.00	\$ 1,425.00
	Temporary Traffic Control	LS	1	\$ 75,000.00	\$ 75,000.00	Yes	\$ 70,725.00	\$ 4,275.00
	Remove Existing Improvements	LS	1	\$ 6,000.00	\$ 6,000.00	Yes	\$ 5,658.00	\$ 342.00
	Remove Curb and Gutter	LF	3,400	\$ 5.00	\$ 17,000.00	Yes	\$ 16,031.00	\$ 969.00
	Remove Pavement	SY	19,100	\$ 2.50	\$ 47,750.00	Yes	\$ 45,028.25	\$ 2,721.75
	Remove Driveway	SF			\$ -	Yes	\$ -	\$ -
	Remove Concrete Sidewalks, Slabs	SF	9,400	\$ 1.75	\$ 16,450.00	Yes	\$ 15,512.35	\$ 937.65
	General Excavation	LS	3,000	\$ 8.00	\$ 24,000.00	Yes	\$ 22,632.00	\$ 1,368.00
	Drainage Excavation	LS	1		\$ -	Yes	\$ -	\$ -
	Backfill/Borrow Material	LS	5,500	\$ 11.00	\$ 60,500.00	Yes	\$ 57,051.50	\$ 3,448.50
	AC Pavement including ABC Base	SY	6,350	\$ 95.00	\$ 603,250.00	Yes	\$ 568,864.75	\$ 34,385.25
	Concrete Pavement including ABC Base	SY	950	\$ 35.00	\$ 33,250.00	Yes	\$ 31,354.75	\$ 1,895.25
	AC Mill and Overlay	SY			\$ -	Yes	\$ -	\$ -
	Curb and Gutter	LF	1	\$ 195,750.00	\$ 195,750.00	Yes	\$ 184,592.25	\$ 11,157.75
	Aggregate Base	SY	3,300	\$ 30.00	\$ 99,000.00	Yes	\$ 93,357.00	\$ 5,643.00
	Concrete Driveways	SF			\$ -	Yes	\$ -	\$ -
	Colored Concrete	SF			\$ -	Yes	\$ -	\$ -
	Concrete Pavers	SF			\$ -	Yes	\$ -	\$ -
	Stamped Asphalt	SF			\$ -	Yes	\$ -	\$ -
	Stamped Concrete	SF			\$ -	Yes	\$ -	\$ -
	Concrete Sidewalk	SF	45,200	\$ 5.00	\$ 226,000.00	Yes	\$ 213,118.00	\$ 12,882.00
	Pedestrian ADA Ramps	EA	20	\$ 2,000.00	\$ 40,000.00	Yes	\$ 37,720.00	\$ 2,280.00
	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	1	\$ 250,000.00	\$ 250,000.00	Yes	\$ 235,750.00	\$ 14,250.00
	Temporary Traffic Signal	EA			\$ -	Yes	\$ -	\$ -
	Traffic Signage and Markings	LS	1	\$ 35,000.00	\$ 35,000.00	Yes	\$ 33,005.00	\$ 1,995.00
	Street Lighting including conduit and trenching	EA	1	\$ 125,000.00	\$ 125,000.00	Yes	\$ 117,875.00	\$ 7,125.00
	Pedestrian Lighting including conduit and trenching	EA			\$ -	Yes	\$ -	\$ -
	Handrail	LF			\$ -	Yes	\$ -	\$ -
	Utility Protection and Adjustments	LS	1		\$ -	Yes	\$ -	\$ -
	Adjust Water Valve	EA			\$ -	Yes	\$ -	\$ -
	Relocate Fire Hydrant	EA			\$ -	Yes	\$ -	\$ -
Adjusted Manholes	EA			\$ -	Yes	\$ -	\$ -	
Drainage Catch basins and Scuppers	EA			\$ -	Yes	\$ -	\$ -	
Storm Drain 48"	LF			\$ -	Yes	\$ -	\$ -	
Storm Drain 36"	LF			\$ -	Yes	\$ -	\$ -	
Storm Drain 24"	LF			\$ -	Yes	\$ -	\$ -	
Storm Drain 18"	LF			\$ -	Yes	\$ -	\$ -	

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MAG PINAL AREA STP PROJECTS COST ESTIMATE WORKSHEET
(Cost Estimates Are Required)**

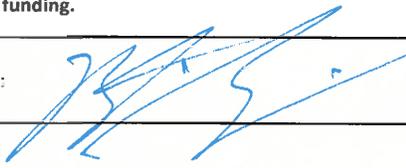
Instructions

1. Cost estimates from this sheet transfer directly to the budget estimate
2. Please select "Yes" if the item will be programmed in a federally funded work phase

ITEM DESCRIPTION	UNIT	TOTAL QUAN.	UNIT PRICE	TOTAL COST	PROGRAMMED WITH FEDERAL FUNDS	FEDERAL SHARE	LOCAL SHARE
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	\$ -	\$ -
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	\$ 60,000.00	\$ 60,000.00	Yes	\$ 56,580.00	\$ 3,420.00
Benches/Seatwalls	EA			\$ -	Yes	\$ -	\$ -
Bike Racks	EA			\$ -	Yes	\$ -	\$ -
Trash Receptacles	EA			\$ -	Yes	\$ -	\$ -
Drinking Fountains	EA			\$ -	Yes	\$ -	\$ -
Drainage Improvements	LS	1	\$ 160,000.00	\$ 160,000.00	Yes	\$ 150,880.00	\$ 9,120.00
Concrete Culvert	LS	10	\$ 900.00	\$ 9,000.00	Yes	\$ 8,487.00	\$ 513.00
Signing	LS	1	\$ 50,000.00	\$ 50,000.00	Yes	\$ 47,150.00	\$ 2,850.00
Concrete Sidewalk Ramp (Bicycle)	EA	8	\$ 1,800.00	\$ 14,400.00	Yes	\$ 13,579.20	\$ 820.80
Contractor Quality Control	LS	1	\$ 25,000.00	\$ 25,000.00	Yes	\$ 23,575.00	\$ 1,425.00
Clearing and Grubbing	LS	1	\$ 3,000.00	\$ 3,000.00	Yes	\$ 2,829.00	\$ 171.00
Place for entering an additional item #7				\$ -	Yes	\$ -	\$ -
Place for entering an additional item #8				\$ -	Yes	\$ -	\$ -
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		1		\$ -	Yes	\$ -	\$ -
SUBTOTAL - CONSTRUCTION COST				\$ 2,375,350.00		\$ 2,239,955.05	\$ 135,394.95
CONTINGENCY			25%	\$ 593,837.50	Yes	\$ 559,988.76	\$ 33,848.74
ADOTCONSTRUCTION			15%	\$ 356,302.50	Yes	\$ 335,993.26	\$ 20,309.24
SUBTOTAL - CONSTRUCTION COST				\$ 3,325,490.00		\$ 3,135,937.07	\$ 189,552.93
SUMMARY							
PRELIMINARY ENGINEERING				\$ 599,900.00	NA	\$ -	\$ 599,900.00
FINAL DESIGN - Stages II, III, IV and PS&E				\$ 430,000.00	NA	\$ -	\$ 430,000.00
RIGHT OF WAY ACQUISITION				\$ 250,000.00	NA	\$ -	\$ 250,000.00
UTILITY RELOCATIONS				\$ 200,000.00	NA	\$ -	\$ 200,000.00
CONSTRUCTION (Including ADOT Construction Administration)				\$ 3,325,490.00	NA	\$ 3,135,937.07	\$ 189,552.93
SUBTOTAL - PROJECT COST				\$ 4,805,390.00	NA	\$ 3,135,937.07	\$ 1,669,452.93
ADOT REVIEW FEES (\$10,000 for Certification Accepted agencies, \$30,000 for all other agencies)				\$ 30,000.00	No	\$ -	\$ 30,000.00
PROJECT TOALS (Including ADOT Review Fees)				\$ 4,835,390.00	NA	\$ 3,135,937.07	\$ 1,699,452.93

**Florence - Intersection of SR 287 and SR 79B in Florence, Ari
Budget and Signature**

Instructions							
1. This sheet is required for all projects 2. All work phases regardless of funding source must be included in the proposed programming. 3. The signature part of this page must be signed with the printed application sent to MAG							
1. Project Budget	Preliminary Engineering and Final Design	1,029,900	Optional: Notes				
	Right of way	250,000	Optional: Notes				
	Utilities	200,000	Optional: Notes				
	Construction	3,325,490	Optional: Notes				
	Total Cost w/o ADOT Review Fee	4,805,390					
	ADOT Review Fee	144,162	Assumes the ADOT design fee is 3 percent of project cost or \$30,0000, which ever is the higher amount.				
	Total Cost	4,949,552					
2. Agency CIP	Please describe the agency programming in its CIP The Town of Florence has programmed \$2,100,000 in the FY19/20 CIP budget under Project T-14 for a roundabout or intersection improvement at SR 287 and SR 79B.						
3. Proposed Programming	Work Phase	Year to be Programmed/1	Funding Source	Federal Amount/2	Local Amount	Total	Local Share/3
	PE/Design	2018	None	-	1,029,900	1,029,900	100%
	Rightof way	2019	None	-	250,000	250,000	100%
	Utilities	2020	None	-	200,000	200,000	100%
	Construction	2021	STP-MAG	3,000,000	220,000	3,220,000	7%
	Construction	2022	STP-MAG	136,000	9,000	145,000	6%
	Total			3,136,000	1,708,900	4,844,900	
	Notes:	1. Federal funds are available only for 2018 and 2020		2. In 2018, \$350,000 is available; In 2020, \$1,270,000 is available.		3. The minimum local share is 5.7%	

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:	
Name:	Brent Billingsley
Title:	Town Manager
Date:	9/22/17



Infrastructure Delivery and Operations

An Arizona Management System Agency

Douglas A. Ducey, Governor
John S. Hallikowski, Director
Dallas Hammit, State Engineer
Steve Boschen, Division Director

September 19, 2017

Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, Arizona 85003

Subject: Pinal Area Surface Transportation Program Funding Application

The Arizona Department of Transportation (ADOT) South Central District (SCD) is pleased to support the Town of Florence in its application for Pinal Area Surface Transportation Program funding.

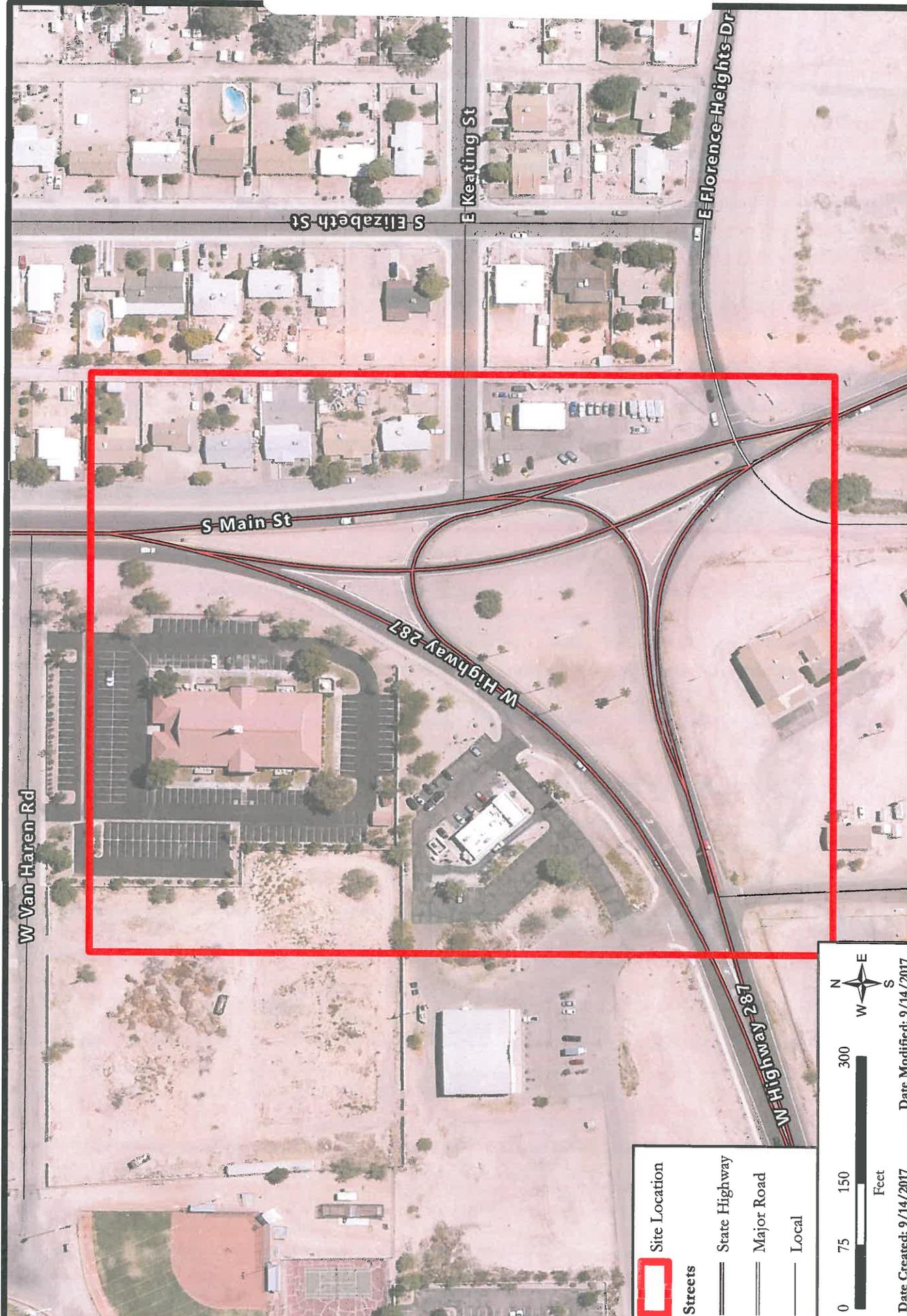
ADOT's South Central District and the Town of Florence have a long history of working together on critical issues. The SR 287/SR 79B Intersection Improvement Project is needed to improve traffic operations, safety, and mobility for all users.

I support the Town's effort toward attaining this grant and look forward to being an active partner as this project moves forward

Sincerely,

A handwritten signature in blue ink, appearing to read 'Roderick F. Lane'.

Roderick F. Lane, P.E.
ADOT South Central District Engineer



Site Location

Streets

- State Highway
- Major Road
- Local

Date Created: 9/14/2017 **Date Modified:** 9/14/2017

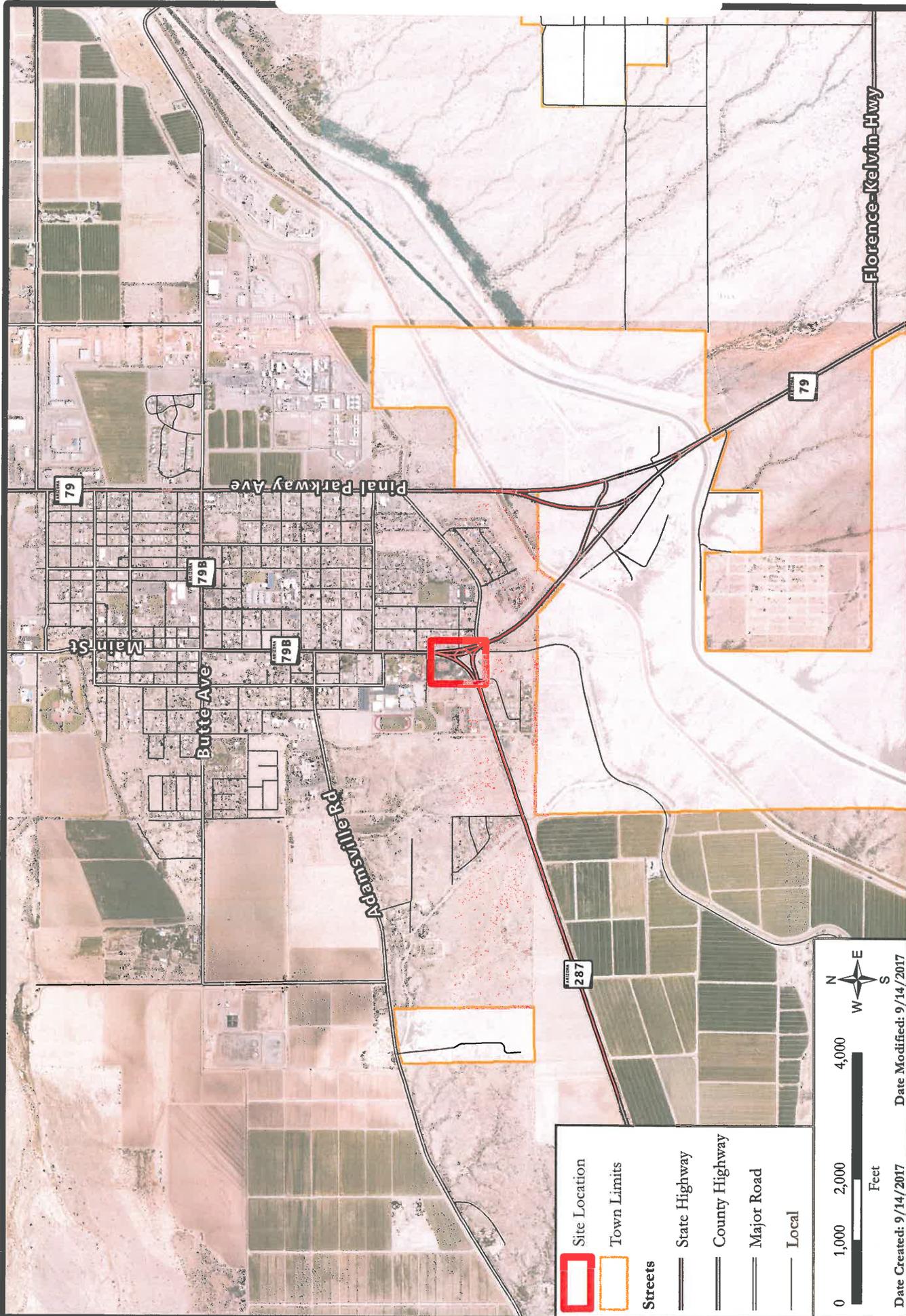
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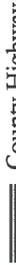
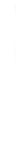
This map is created for reference purposes only and is to be used at your own risk. The Town of Florence makes no warranty as to the accuracy or completeness of the information contained in this map and assumes no liability for any errors or omissions contained therein, nor for any direct, indirect, or consequential damages which may be caused by its use. It is the user's responsibility to verify all information contained herein. 2017-666

Florence - SR287 / SR79B Intersection Improvement Project: Project Area Map



Town of Florence



	Site Location
	Town Limits
Streets	
	State Highway
	County Highway
	Major Road
	Local

0 1,000 2,000 4,000 Feet



Date Created: 9/14/2017 Date Modified: 9/14/2017



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Florence - SR287 / SR79B Intersection Improvement Project: Vicinity Map



Town of Florence

Figure 3 Examples of Existing Conditions



Looking West from Florence Heights Drive



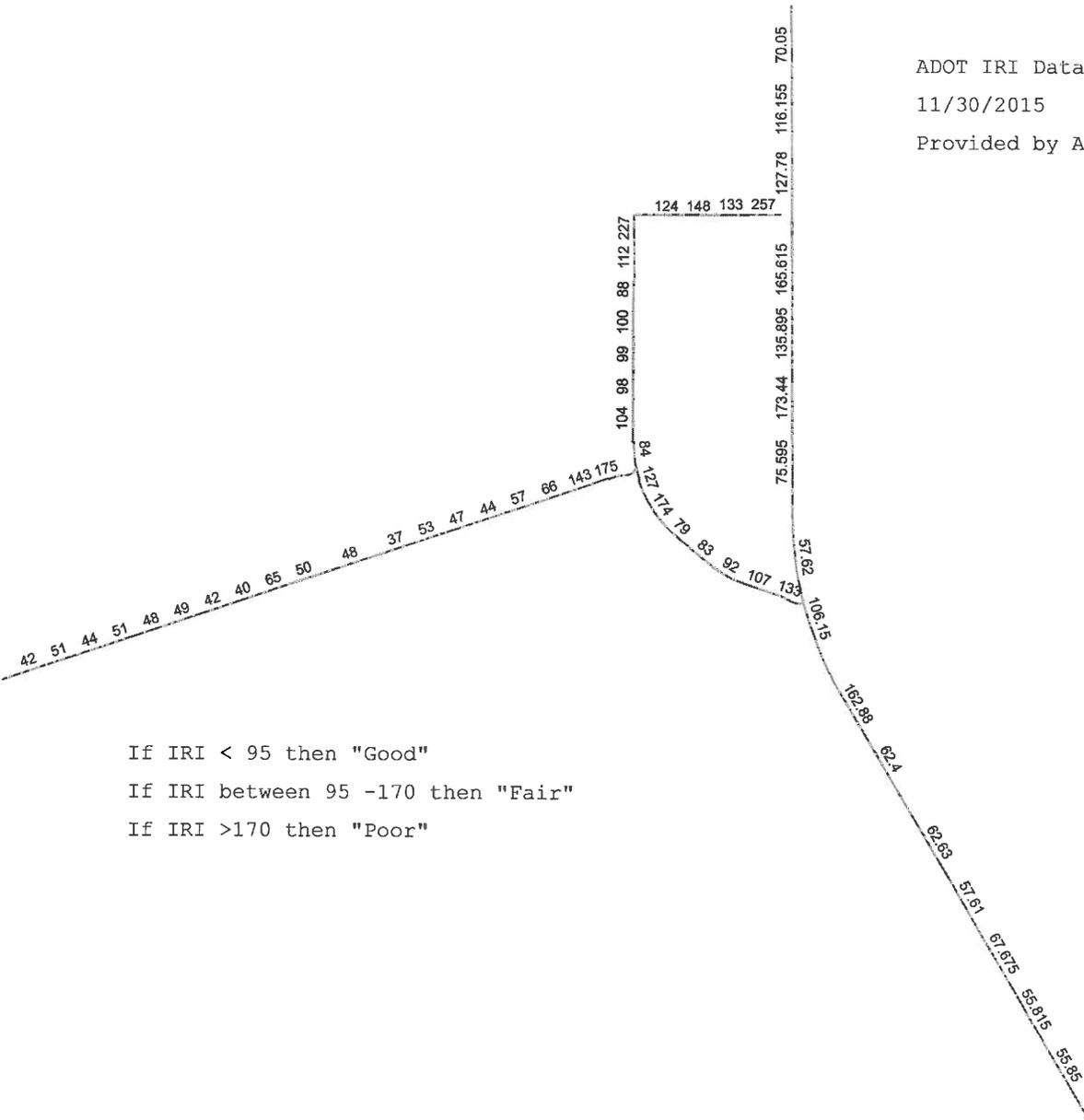
Looking East from SR 287

ATTACHMENT 6

ADOT IRI Data

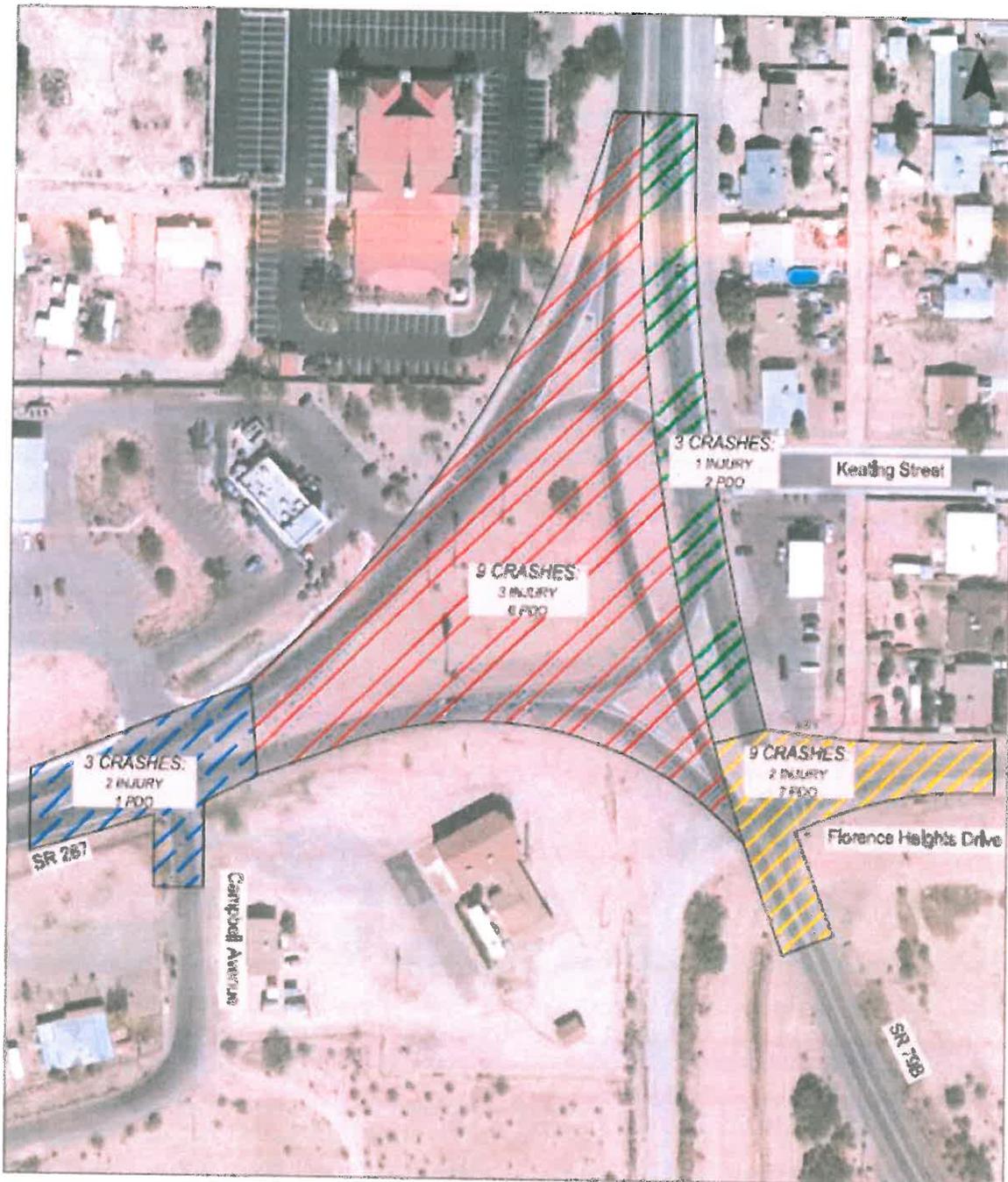
11/30/2015

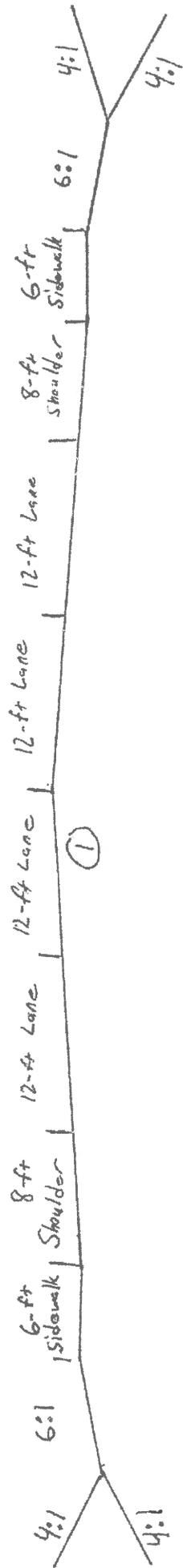
Provided by ADOT MPD 9/19/17



If IRI < 95 then "Good"
If IRI between 95 -170 then "Fair"
If IRI >170 then "Poor"

Figure 5 Crash Diagram





① Pavement Structural Section Estimated 3" of AC on 3" of AC on 12" ABC

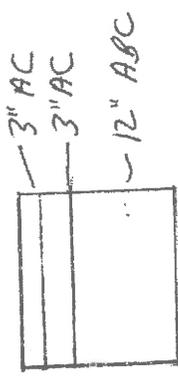
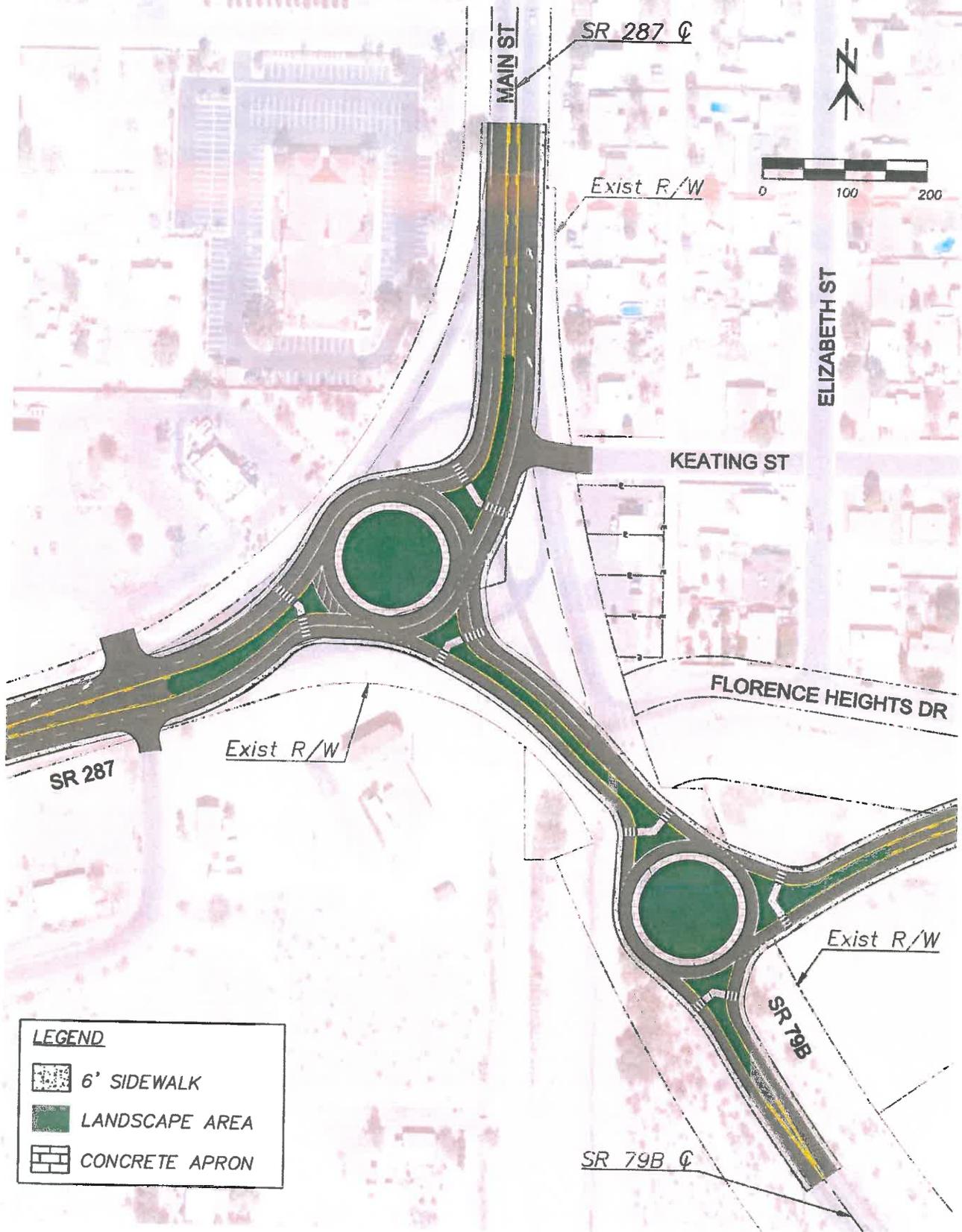


FIGURE 11
Alternative 3
Double Roundabout



LEGEND	
	6' SIDEWALK
	LANDSCAPE AREA
	CONCRETE APRON

Figure 4 Existing Traffic Control

