

# Executive Summary Regional Transportation Plan











# November 25, 2003





**Executive Summary** 

# REGIONAL TRANSPORTATION PLAN

### PREPARED UNDER THE GUIDANCE OF THE TRANSPORTATION POLICY COMMITTEE

AND

### ADOPTED BY THE MAG REGIONAL COUNCIL

### NOVEMBER 25, 2003

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### Acknowledgments

We wish to thank Governor Janet Napolitano and the Arizona Legislature for the passage of House Bill 2292, which guided the development of the Regional Transportation Plan, in anticipation of an election to extend the transportation sales tax for this region. Although many members of the Legislature were instrumental in the passage of this bill, the leadership of the Chair of the House Transportation Committee, Representative Gary Pierce, is especially noteworthy in this endeavor. In addition, we wish to thank the Business Coalition and Maricopa 2020 for joining with the Transportation Policy Committee and the MAG Regional Council in developing and supporting the Regional Transportation Plan.

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### INTRODUCTION

The Maricopa Association of Governments' (MAG) Regional Transportation Plan (RTP) is a comprehensive, performance based, multi-modal and coordinated regional plan, covering the period through Fiscal Year (FY) 2026. The RTP will provide a blueprint for future transportation investments in the region for the next several decades. This Executive Summary presents a concise overview of the RTP.

The MAG Planning Area includes all of Maricopa County, Arizona (See Figure 1). At present, MAG membership consists of the cities of Apache Junction, Avondale, Chandler, El Mirage, Glendale, Goodyear, Litchfield Park, Mesa, Peoria, Phoenix, Scottsdale, Surprise, Tempe, and Tolleson; the towns of Buckeye, Carefree, Cave Creek, Fountain Hills, Gila Bend, Gilbert, Guadalupe, Paradise Valley, Queen Creek, Wickenburg and Youngtown; Maricopa County; and the Gila River, and Salt River Pima-Maricopa Indian Communities. The Arizona Department of Transportation (ADOT) and the Citizen's Transportation Oversight Committee also serve as ex-officio members for transportation-related issues. MAG is the designated Metropolitan Planning Organization (MPO) for transportation planning in the Maricopa County Region. MAG has also been designated by the Governor to serve as the principal planning agency for the region in a number of other areas, including air quality, water quality and solid waste management. In addition, through an Executive Order from the Governor, MAG develops population estimates and projections for the region.

#### Transportation Policy Committee

The RTP was developed under the direction of the Transportation Policy Committee (TPC). The TPC is a public/private partnership established by MAG and charged with finding solutions to the region's transportation challenges. The Committee consists of 23 members, including a cross-section of MAG member agencies, community business representatives, and representatives from transit, freight, the Citizens Transportation Oversight Committee, and ADOT. The TPC is dedicated to developing a plan that addresses diverse transportation needs throughout the region. The Committee makes its recommendations to the MAG Regional Council,

which adopts the final RTP.

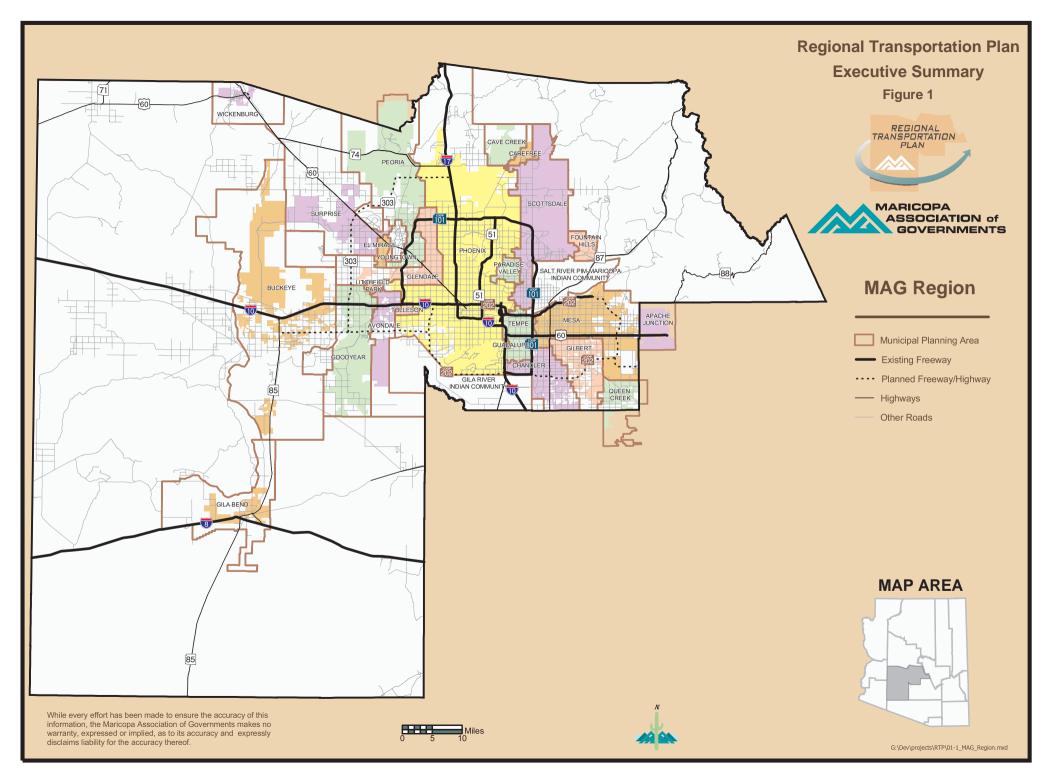
Work to prepare the RTP began in December of 2000, representing the most extensive transportation plan update by MAG since the mid-1980s. The planning process established goals, objectives and performance measures; extensively evaluated the long-range population trends of the region; analyzed economic and land use development patterns; analyzed the current condition of the regional transportation system; assessed transportation needs over the next 20 years; and identified transportation investments that will best meet the present and future needs of the region. An extensive public involvement and outreach program was pursued throughout the planning effort.

Arizona House Bill 2292, which was passed in the Spring 2003 session of the Arizona Legislature, recognizes MAG's establishment of a TPC that is tasked with developing an RTP, and sets forth the process for an election to extend the current onehalf cent county transportation excise tax. It required the TPC to develop the RTP in cooperation with the Regional Public Transportation Authority (RPTA) and ADOT.

#### One-Half Cent Transportation Excise Tax

On October 8, 1985, the voters of Maricopa County approved Proposition 300 to establish a one-half cent sales tax for construction of controlled-access highways. These funds are called Regional Area Road Funds (RARF). To be eligible for these funds, facilities must be identified within the MAG RTP and the State Highway System.

The one-half cent tax was approved for a period of 20 years and ends on December 31, 2005. The tax has been instrumental in the development of the regional freeway network, but many transportation needs remain. In view of the continuing demand for transportation improvements in the region, there is a need to extend this funding source into the future. Improvements covering a full range of transportation modes need to be addressed, including streets and arterial networks, rail transit and bus service expansion, and new and improved freeways.



# REGIONAL OVERVIEW

The MAG Region is geographically situated in the south-central interior region of the State of Arizona, and encompasses an area of 9,223 square miles. The MAG Region contains 25 incorporated cities and towns, five Native American Communities and a large area of unincorporated land. The region is located in the Sonoran Desert with elevations generally ranging from 500 to 2,500 feet above sea level. In 2002, Maricopa County contained approximately 60 percent of the population in Arizona, as well as eight of the nine cities in Arizona with populations greater than 100,000 people.

According to data compiled by MAG in 2000, approximately 29 percent of all county lands were under private ownership; 28 percent of lands were under the direct ownership of the Bureau of Land Management; 14 percent of lands were under the jurisdiction of the U.S. Military; 11 percent of lands were held within State trust; 11 percent of lands were under the direct ownership of the U.S Forest Service; 5 percent of land was comprised of Indian Communities; and the remaining 2 percent of lands in the county were classified as "other" public lands.

#### **Population Projections**

For the past several decades, the MAG Region has been one of the fastest-growing metropolitan areas in the United States, among those with populations of more than one million people. In April of 2000, Maricopa County had a resident population of 3,072,149. This was a population growth of approximately 44 percent, or 950,000 people in the decade from 1990 to 2000.

MAG Interim Socioeconomic Projections indicate that this high growth rate is expected to continue. By 2030, Maricopa County is projected to double in population over the 2000 base population, with an anticipated total of 6.24 million people. This means that the region will experience a growth of approximately one million people during each decade.

Table 1 shows the total resident population for Municipal Planning Areas (MPAs) from July 1, 2000, to July 1, 2030. Total resident population includes the resident population in households, and the resident population in group quarters (dorms, nursing homes, prisons and military establishments). Over the 30-year period (2000-2030), nine MPAs are projected to grow by more than 100,000 persons. These areas include Phoenix, Buckeye, Surprise, Goodyear, Mesa, Gilbert, Peoria, Avondale and Chandler. Another three MPAs are projected to experience population growth greater than 50,000 persons: Scottsdale, Glendale, and the Maricopa County portion of Queen Creek.

Currently, there are four MPAs within the MAG Region with populations of more than 200,000 persons: Phoenix, Mesa, Glendale and Scottsdale. By 2010, Chandler and Gilbert will surpass 200,000 in population, and will be followed by Peoria prior to the beginning of 2020. By 2025, the largest Municipal Planning Area – Phoenix, will contain 2.1 million persons, followed by Mesa at 630,000 and Surprise at 312,000.

#### Employment Growth

By 2025, Maricopa County is projected to nearly double its reported 2000 employment total. This means that employment within the region will grow by approximately 575,000 jobs each decade. Compared to 2000, it is projected that there will be a more even distribution of jobs by place of work among MPAs throughout the MAG Region.

Although the Phoenix MPA is expected to contain the most jobs in the region, its share declines from 47 percent of all jobs in 2000, to approximately 37 percent in 2030. In 2000, the top four MPAs of Phoenix, Mesa, Tempe and Scottsdale contained 78 percent of all jobs by place of work. By 2030, their collective share is projected to decline to 60 percent.

Between 2000 and 2025, total job growth in Maricopa County is projected to be 1.4 million jobs, which includes the following stages of growth: 547,000 jobs between 2000 and 2010; 593,000 jobs between 2010 and 2020; and 297,000 jobs between 2020 and 2025.

#### TABLE 1

(5)	uly 1, 2000 and In		5 July 1, 2010 to 5	uly 1, 2000)	
Municipal Planning Area (MPA)	Total Resident Population 2000	Total Resident Population 2010	Total Resident Population 2020	Total Resident Population 2025	Total Resider Populatio 2030
Avondale	37,800	82,100	122,500	141,600	161,400
Buckeye	16,700	58,600	153,400	275,500	380,600
Carefree	3,000	4,000	4,800	4,800	4,900
Cave Creek	3,900	5,100	5,800	9,800	12,900
Chandler	185,300	260,000	286,600	287,000	288,600
County Areas	85,300	92,900	109,900	124,600	138,000
El Mirage	8,700	29,700	31,400	32,200	33,100
Fountain Hills	20,500	24,700	30,400	30,400	30,700
Gila Bend	2,300	2,800	6,000	12,500	17,800
Gila River *	2,700	3,200	4,200	4,700	5,200
Gilbert	119,200	202,800	280,300	281,900	290,500
Glendale	230,300	290,400	308,100	309,800	312,200
Goodyear	21,200	61,300	161,100	247,400	330,400
Guadalupe	5,200	5,200	5,500	5,500	5,600
Litchfield Park	3,800	7,000	13,700	13,700	14,200
Mesa	441,800	537,900	617,800	630,300	647,800
Paradise Valley	14,100	15,200	15,700	15,800	15,900
Peoria*	114,100	160,800	206,600	232,200	253,400
Phoenix	1,350,500	1,700,300	2,022,500	2,101,600	2,187,500
Queen Creek*	7,400	18,900	58,300	73,100	88,100
Salt River	6,500	7,400	7,500	7,500	7,500
Scottsdale	204,300	253,100	287,300	289,600	292,700
Surprise	37,700	115,200	213,300	312,300	395,500
Tempe	158,900	176,400	189,200	192,700	196,700
Tolleson	5,000	6,100	6,200	6,200	6,300
Wickenburg	7,400	7,700	10,000	14,800	16,000
Youngtown	3,000	5,400	6,200	6,300	6,600
TOTAL	3,096,600	4,134,400	5,164,100	5,664,000	6,140,000

#### Notes:

Total resident population includes resident population in households and resident population in group quarters (dorms, nursing homes, prisons and military establishments). MPA numbers are rounded to the nearest 100. County numbers may not add due to rounding. \*These projections include the Maricopa County portion of the community only.

The City of Apache Junction, which became a member of MAG in 2002, had a resident population of approximately 40,000 in the Year 2000. MAG has assembled databases and compiled placeholder projections based on their input for portions of Pinal County. Based on their input, Apache Junction's population is projected to be 78,000 in 2010;122,000 in 2020; 142,000 in 2025; and 157,000 in 2020.

## PUBLIC INVOLVEMENT

The transportation planning process has benefitted greatly by incorporating broad-based public input, which was received as the result of an extensive public involvement process that included an aggressive public outreach effort.

During the development of the RTP, MAG has talked to thousands of people in an effort to identify public issues and concerns regarding future transportation needs. As part of this process, MAG held 150 public input opportunities, 173 stakeholder opportunities, and 117 agency meetings to solicit input from the public, community groups, business associations, transportation stakeholders, elected and appointed leaders, city planners, municipal technical staffs, transportation councils, and the region's Native American Communities.

#### The Public Involvement Process

The RTP public involvement meetings and events were held to accommodate citizens throughout the MAG Region. Meeting and event times were varied in an attempt to accommodate as many citizens as possible, and complied with the provisions of the Americans with Disabilities Act. In addition, Spanish language materials, sign language interpretation, alternate materials, and FM/Infrared Listening Devices were available upon request.

Public input opportunities throughout the RTP planning process included expert panel forums, focus groups, special events, public meetings, hearings, workshops, small group presentations, and a MAG Town Hall, which was attended by individuals representing leadership groups from communities throughout the region. Additional input was also received through the MAG Web Site, and through <u>www.LetsKeepMoving.com</u>, which is a special Web Site developed for the RTP process. Also, MAG conducted three scientific telephone polls to collect information about citizen priorities and their level of support for the one-half cent sales tax extension.

As part of the public involvement process, six public meetings/hearings were held to further

review and receive comment on the specifics of the Final Draft of the RTP, which was adopted by the Transportation Policy Committee (TPC) on July 22, 2003. In conjunction with public meetings, six business meetings were also held to provide the opportunity for review and comment on the RTP by members of the business community.

These meetings were held at locations across the region in August and September of 2003. The areas where the meetings were held included the Central, Southwest, Northwest, Southeast and Northeast areas, as well as a Surprise/Sun City meeting. More than 500 individuals participated in the meetings.

#### **Title VI and Environmental Justice**

MAG has been committed to ensuring that communities of concern as defined and included in the Title VI Act of 1964, Executive Order 12898 addressing environmental justice, and other federal directives have been specifically considered during the transportation planning and programming process. These laws ensure that such populations benefit equally from the transportation system without shouldering a share of its disproportionate burdens. Communities of concern include minority populations, low-income populations, aded populations, mobility disability populations, and female head of household populations.

Each of the three major components of the RTP (freeways/highways, transit and arterial roads) were analyzed separately in the environmental justice analysis to assess the distribution of benefits of projects included within the RTP. The analysis of Plan improvements showed that communities of concern benefitted from the RTP at about the same level, or in some cases at a higher level, than the census tracts not identified as communities of concern.

### PLAN DEVELOPMENT

The RTP was developed through a performancebased process that followed a specific methodology and evaluated the Plan relative to a range of performance measures. The process that was applied in the preparation of the RTP utilized both performance-based planning and the application of performance measures in the evaluation of modeling scenarios.

#### Performance-Based Planning

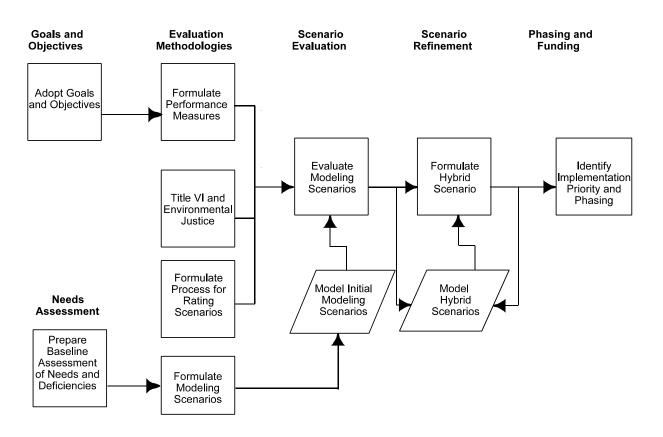
The methodology for developing the RTP included the following components: 1) Goals and Objectives, 2) Needs Assessment, 3) Evaluation Methodologies, 4) Scenario Evaluation, 5) Scenario Refinement, and 6) Phasing and

Funding. These components are discussed below and displayed in Figure 2.

#### Goals and Objectives

A number of goals and objectives were developed as part of the RTP planning process. These goals and objectives provided the structure for developing options and evaluating scenarios. Performance measures were also identified and linked with specific goals and objectives, so that the evaluation process reflected key regional issues and concerns. The four primary goals developed for the RTP included the following: 1) System Preservation and Safety, 2) Access and Mobility, 3) Sustaining the Environment, and 4) Accountability and Planning.

#### Figure 2



#### Plan Development Process

#### Needs Assessment

A series of background studies were conducted for the RTP, including area transportation studies, corridor assessments, specific modal analyses, and a number of other regional planning studies. Transportation needs and deficiencies identified in these studies have been assessed as part of the RTP process. In addition, projects identified by MAG member agencies have been tabulated and considered in the assessment of transportation needs in the region.

#### Evaluation Methodologies

The methodology for assessing system performance and evaluating scenarios utilized a set of performance measures. During the "Alternatives Stage" of the RTP process, the performance measures were used to provide information on the advantages and disadvantages of different approaches for meeting future travel needs, and to assess the relative strengths and weaknesses of the modeling scenarios. This was done within the overall context of regional transportation goals and objectives. The results of this assessment provided input into the RTP "Final Draft Stage."

#### Scenario Evaluation

The RTP process included the development of transportation system modeling scenarios, which were evaluated by using performance measures. Three scenarios were used each one placing an emphasis on a different transportation mode, including freeways, streets and transit. The scenarios were structured to reflect consistent levels of future funding and project eligibility. The primary goal was to provide a basis for analyzing the performance of potential plan components, rather than providing a detailed allocation of funding resources.

#### Scenario Refinement

The overall analysis of the scenarios provided insights into the tradeoffs associated with different transportation investment strategies, as well as the performance of system components. Using the results of the evaluations, a hybrid scenario was defined. After further modeling and evaluation, the hybrid resulted in the "Final Draft Stage" scenario, providing the basis for the RTP.

#### Phasing and Funding

The "Final Draft Stage" not only looked at how the Plan would be funded, but also identified the phasing of projects included in the Plan. Project phasing priorities were based on revenue streams and other factors such as traffic volumes, congestion, system continuity, and project readiness.

#### **Costs and Revenue Estimates**

As part of the planning process, overall revenue and cost estimates were prepared and are considered to be reasonable for planning purposes. In addition, bonding strategies, which can have a major effect on the phasing of plan development, were assumed. To recognize the uncertainties associated with projecting costs and revenues over a 20-year period, contingency factors were applied.

However, it is important to note that cost and revenue uncertainties can only be resolved once detailed engineering studies are completed and economic conditions are revealed over time. Periodic adjustments and updating of the RTP will be needed to respond to changing conditions and new information.

#### State and Federal Mandates

State (House Bill 2292) and federal statutes and regulations address regional transportation planning, and establish a framework for approaching the process and determining the contents of the plan. The RTP, as well as the planning process through which it was developed, was structured to meet these requirements. State and federal planning requirements were thoroughly detailed in the RTP, along with a discussion describing the way in which the Plan responds to these mandates.

### FINANCIAL PLAN

The RTP process focused on regional transportation revenues, since they represent those resources that can be planned and programmed at the regional level. In addition to regional sources, it is worth noting that there are other revenues that play an important role in meeting transportation needs. Examples of these include local revenue contributions, city and county shares of the Arizona Highway User Revenue Fund (HURF), local sales taxes and general funds, and developer-financed street construction.

#### **Regional Transportation Revenues**

A total of \$15.8 billion (in 2002 dollars) has been projected to be available from regional revenue sources over the duration of the RTP planning horizon. The regional funding sources that are specifically addressed in the RTP include the following: 1) ADOT 15 percent funds, 2) ADOT discretionary funds, 3) federal transit 5307 funds, 4) federal transit 5309 funds, 5) federal Surface Transportation Program (STP) funds, 6) federal Congestion Mitigation and Air Quality (CMAQ) funds, and 7) extension of the countywide onehalf cent sales tax for transportation. The RTP was developed to reflect specific levels of future funding from these sources for the period covering 2006-2026.

It is estimated that revenues from an extension of the one-half cent sales tax for transportation, excluding \$500 million set aside for interest expense, would generate approximately \$8.5 billion or about 54 percent of the regional revenues expected to be available over the period. Other major sources include ADOT funds (federal and state), \$4.1 billion or 26 percent, and federal transit funds, \$1.9 billion or 12 percent. The remaining 8 percent is provided to the region through federal STP and CMAQ funds.

#### **Funding Assumptions**

As identified throughout the RTP process, the amount of funding to be allocated toward project development by mode is as follows: 57.3 percent for freeways/highways; 9.3 percent for streets; 31.7 percent for transit; and 1.7 percent for other programs, such as bicycle and pedestrian projects. However, when considering the sales tax component of the RTP, and for purposes of developing financial cash flows, it was assumed that sales tax funds would be distributed to the designated funding categories as follows: 56.2 percent for freeways/highways; 10.2 percent for streets; 33.3 percent for transit; and 0.4 percent for other planning programs.

Additional assumptions regarding the funding from the one-half cent sales tax extension include the following principles:

- "Firewalls" are established so funding cannot be transferred from one category to another.
- Bond proceeds will only be used for capital costs and not for maintenance or operations expenses.
- Consistent with the "firewall" principle, bonding for each funding category will be done independently.

In developing funding allocations among the various Plan components and project types, the following local matching requirements were generally assumed: 30 percent for major street projects, including ITS elements; 30 percent for bicycle and pedestrian projects, and minimum federal match requirements for air quality and transit projects involving federal funds.

#### Modal Funding Summary

Table 2 provides a summary of funding by mode and funding source. This allocation reflects a fiscally balanced Plan, in that both estimated project costs and revenues total \$15.8 billion. Although this discussion of funding precedes the description of the Plan facilities, it is important to note that transportation needs were identified first. The modal funding allocations described in Table 2 were established after the modal planning process was completed and reflect project needs determined through the technical planning process.

#### TABLE 2

				NDING BY	-			
Mode	Program Area	1/2 Cent	ADOT Funds	FTA (5307)	FTA (5309)	CMAQ	MAG- STP	Total Regional Funding
Freeways	Capital	4,420	4,121	0	0	149	0	8,689
	Operations	354	0	0	0	0	0	354
	Total	4,774	4,121	0	0	149	0	9,043
Streets	Capital	863	0	0	0	105	497	1,464
Buses	Capital	355	0	857	120	0	0	1,332
	Operations	1,009	0	0	0	0	0	1,009
	Total	1,364	0	857	120	0	0	2,340
LRT	Capital	1,224	0	0	825	279	0	2,328
Other Transit	Capital	32	0	89	0	0	0	122
	Operations	211	0	0	0	0	0	211
	Total	243	0	89	0	0	0	333
Planning	Programs	31	0	0	0	0	0	31
Bicycle/ Pedestrian	Capital	0	0	0	0	132	0	132
Air Quality	Programs	0	0	0	0	113	0	113
Total Funding	Capital	6,894	4,121	946	945	665	497	14,067
	Operations	1,604	0	0	0	113	0	1,718
	Total	8,498	4,121	946	945	778	497	15,785
	Tc	otal Expend	liture Type	and Fund	ing Source	•		
Capital		6,894	4,121	945	945	665	497	14,067
O & M / Operation	S	1,604	0	0	0	113	0	1,718
Total		8,498	4,121	945	945	778	497	15,785

Source: Maricopa Association of Governments

# FREEWAYS AND HIGHWAYS

The RTP includes a component for freeways and highways in the MAG Region through Fiscal Year (FY) 2026. In total, \$9.0 billion, or 57.3 percent, of the regional funding identified in the RTP is specifically allocated to projects in this element.

#### Planned New Facilities and Improvements

The RTP calls for both new freeway corridors to serve growth in the region and improvements to the existing system to address current and future congestion. In addition, effective operation and maintenance of the system are addressed. Figure 3 highlights the improvements planned for the system, showing both new freeway corridors and improvements to existing (or soon to be completed) freeway and highway facilities. Table 3 lists the individual freeway and highway projects in the RTP, and also displays costs and phasing information.

#### New Freeway Corridors:

Funding for new freeway and highway corridors in the Plan totals \$3.7 billion. These new corridors will provide approximately 490 additional new lane miles to the network.

#### Freeway/Highway Improvements:

Funding for widenings and other improvements to the existing regional freeway/highway network totals an additional \$4.4 billion. These improvements include an additional 530 lane-miles of general purpose lanes and 300 lane-miles of HOV lanes, covering essentially the entire existing system, including the loop elements now under construction. A number of bottleneck segments on the freeway system are also addressed in the RTP. Improvements to Grand Avenue and other highways are also funded. In addition to new travel lanes, a series of new interchanges with arterial streets on existing freeways is included within the RTP. Also, improvements at freeway-to-freeway interchanges to provide direct connections between HOV lanes have been included. Together, these improvements total \$396 million. and are displayed in Table 4.

#### Maintenance and Operations:

The RTP also provides funding for maintenance on the freeway system, directed at litter pickup, landscaping, freeway management functions and noise mitigation. As displayed in Table 5, together these components total \$515 million.

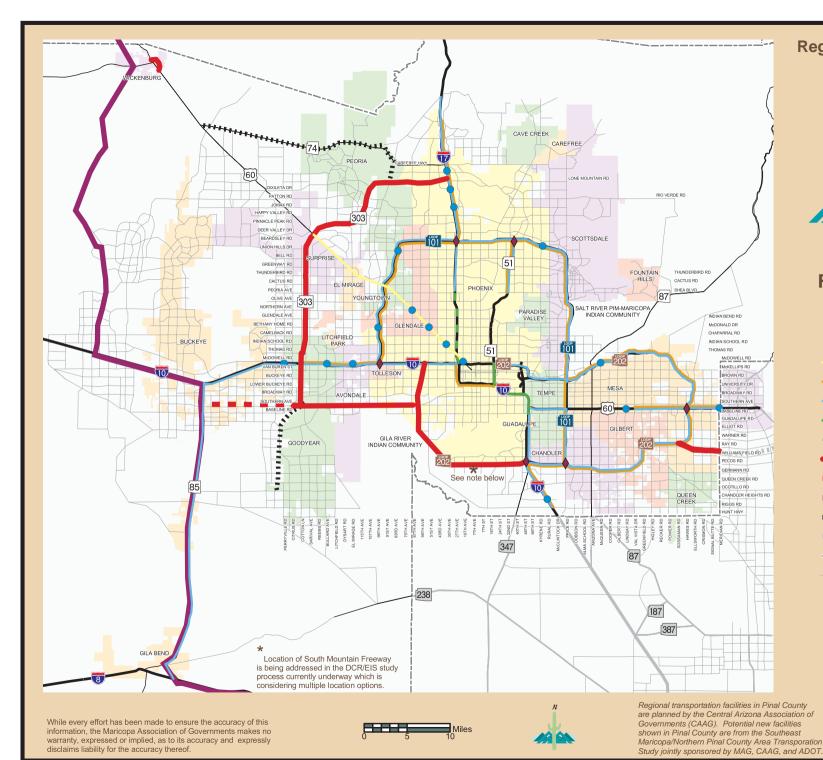
#### <u>Phasing Priorities - Regionally Funded</u> <u>Projects</u>

Figures 4 and 5 display the phasing of freeway, highway and interchange projects. Costs and phasing for these projects are listed in Tables 3 through 5. The projects are grouped into four phases, or time periods based on fiscal years. Fiscal years end June 30<sup>th</sup> of the year indicated. The four phases are as follows: 1) Phase I: FY 2005 through 2010; 2) Phase II: FY 2011 through 2015; 3) Phase III: FY 2016 through 2020; and 4) Phase IV: FY 2021 through 2026.

Phase I emphasizes improvements to the currently congested parts of the system. In Phase II, major accomplishments include the construction of Loop 303 (I-17 to I-10) and completion of the South Mountain Freeway. Phase III is marked by capacity improvements on I-17 and construction of the Williams Gateway Freeway. In Phase IV, a key accomplishment is construction of the I-10 Reliever between the South Mountain and Loop 303, as well as an interim connection between Loop 303 and SR 85. New interchanges, HOV lanes and HOV ramp connections at freeway-to-freeway interchanges are generally constructed throughout the planning period.

#### Life Cycle Freeway Program

The RTP includes projects that were already funded, but remain to be completed from the existing Life Cycle Freeway Program. This program funds controlled-access projects scheduled for completion in previous plans by the end of FY 2007 (see Figure 6). Funding for the Program includes proceeds from the 1985 onehalf cent transportation excise tax (RARF), which expires at the end of 2005.







#### Table 3: Freeway and Highway Projects

Facility	Segment	Length	Project	Through La (Each Direc			al Regional Co			hase
		(miles)	es) (Lanes added in each direction)		tion) HOV	(2002 Dollars, Millions) GP HOV Total			(Final Constructio GP HOV	
				GP						
I-8	Yuma County to SR 85 SR 85 to Pinal County	37 <u>31</u>	-	2 2	0 0	-	-	-	-	-
	Sub-total I-8	68		-	-	-	-	-	-	-
I-10	Yuma County to Sun Valley Parkway	39		2	0	-	-	-	-	-
	Sun Valley Parkway to SR 85 SR 85 to Loop 303	3 12	- Add one GP lane.	2 3	0 0	- 106	-	- 106	-	-
	Loop 303 to Dysart Rd	5	Add two GP lanes and one HOV lane.	4	1	66	28	94	Ш	П
	Dysart Rd to Loop 101	6	Add one GP lane and one HOV lane.	4-5	1	35	22	57	II	II
	Loop 101 to I-17 I-17 to SR 51	7 5	Add one GP lane. -	5 3-5	1 1	79 -	-	79 -	-	-
	SR 51 to 40th St (CD Roads) 40th St to Baseline Rd (CD Roads) Baseline Rd to Loop 202/Santan	3 6 6	Add Collector-Distributor (CD) road system. Add Collector-Distributor (CD) road system. Add one GP lane.	3-6 3-6 4-5	1 1 1	120 380 53	-	120 380 53	  - 	
	Loop 202/Santan to Riggs Rd Riggs Rd to Pinal County	6 1	Add one GP and one HOV lane.	3 2	1 0	23	_23	46	II -	II -
	Sub-total I-10	99			-	862	73	935		
I-10R	SR 85 to Loop 303	11	Add one GP lane.	1	0	83		83	IV	-
	Loop 303 to Loop 202/South Mtn	13	New freeway (3 lanes each direction)	3	0	722	-	722	IV	-
	Sub-total 10R	24				805	-	805	-	-
I-17	Yavapai County to New River Rd New River Rd to Anthem Way	10 3	- Add one GP lane.	2 3	0 0	- 26	-	- 26	ĪV	-
	Anthem Way to Carefree Hwy	5	Add one GP lane and one HOV lane.	3	1	44	28	72	IV	IV
	Carefree Hwy to Loop 101	9	Add two GP lanes and one HOV lane.	4-5	1	119	50	169	I	I
	Loop 101 to Arizona Canal (between Peoria & Dunlap Ave)	6	Add one GP lane.	4	1	53	-	53	Ш	-
	Arizona Canal to McDowell Rd	7	Long term capacity improvements (target addition of two GP lanes)	5-6	1	1,000	-	1,000	III	-
	McDowell Rd to I-10 (West)	1	-	3	0	-	-	-	-	-
	I-10 (West) to I-10 (East)	7	Add one HOV lane.	3	1		77	77		
	Sub-total I-17	48				1,242	155	1,397		
Loop 101	Agua Fria: US 60/Grand Ave to I-17	12	Add one GP and one HOV lane. Also construct auxiliary lanes from Bell Road to Grand Avenue.	4	1	102	64	166	IV	IV
	Agua Fria: I-10 to US 60/Grand Ave	<u>10</u>	Add one GP and one HOV lane. Also construct auxiliary lanes from Grand Avenue	4	1	85	53	138	IV	
	Sub-total Agua Fria	22	to Northern Avenue.			187	117	304		
	Pima: I-17 to SR 51	7	Add one GP and one HOV lane.	4	1	59	37	96	IV	П
	Pima: SR 51 to Princess Dr Pima: Princess Dr to Shea Blvd	6 4	Add one GP and one HOV lane. Add one GP and one HOV lane.	4	1 1	51 34	29 22	80 56	IV IV	1
	Pima: Shea Blvd to Loop 202/Red Mtn	11	Add one GP and one HOV lane.	4	1	94	61	155	1	i
	Sub-total Pima	28				238	149	387		
	Price: Loop 202/Red Mtn to Baseline Rd Price: Baseline Rd to Loop 202/Santan	4 6	Add one HOV lane. Add one GP and one HOV lane.	4	1 1	- 51	22 31	22 82	- IV	1
	Price: Loop 202/Santan to I-10	6	Lanes / design TBD following ADOT study.	TBD	TBD		-		<u> </u>	
	Sub-total Price Sub-total Loop 101	<u>16</u> 66				<u>51</u> 476	<u>53</u> 319	<u>104</u> <b>795</b>		
Loop 202	Red Mountain: I-10/SR 51 to Rural Rd Red Mountain: Rural Rd to Loop 101	7 2	Add one GP lane (eastbound only). Add one GP lane.	4-5EB, 3-4WB 5	1 1	67 39	-	67 39	I	-
	Red Mountain: Loop 101 to Gilbert Rd	6	Add one GP and one HOV lane.	4	1	51	32	83	11	1
	Red Mountain: Gilbert Rd to Higley Rd Red Mountain: Higley Rd to US 60/Superstition	5 10	Add one GP and one HOV lane. Add one GP and one HOV lane.	4 4	1 1	42 85	27 52	69 137	IV IV	III IV
	Sub-total Red Mountain	30				284	111	395		
	Santan: I-10 to Dobson Rd	5	Add one GP and one HOV lane.	4	1	43	27	70	IV	П
	Santan: Dobson Rd to Val Vista Rd	7	Add one GP and one HOV lane. Add one GP and one HOV lane.	4	1 1	59 93	40	99 148	IV IV	II IV
	Santan: Val Vista Rd to US 60/Superstition Sub-total Santan	<u>11</u> 23	Add one GP and one HOV lane.	4	I	195	<u>55</u> 122	317	IV	IV
	South Mountain: I-10 (West) to 51st Ave	10	New freeway (3 lanes each direction)	3	0	490	-	490	I to II	
	South Mountain: 51st Ave to Loop 202/I-10 Sub-total South Mountain	<u>12</u> 22	New freeway (3 lanes each direction)	3	0	<u>577</u> 1,067	-	<u>577</u> 1,067		
	Sub-total Loop 202	75				1,546	233	1,779		

#### Table 3: Freeway and Highway Projects (continued)

Facility	Segment	Length Project		Through Lanes		Total Regional Costs <sup>1</sup>			Phase (Final Constructio	
		(miles)	(Lanes added in each direction)	(Each Dir GP	ection) HOV	(200 GP	2 Dollars, Milli HOV	ions) Total	(Final Co GP	HOV
Loop 303	I-17 to US 60/Grand Ave US 60/Grand Ave to I-10	18 15	New freeway (3 lanes each direction) New freeway (3 lanes each direction)	3 3	0 0	645 545	-	645 545	l to II II	-
	I-10 to I-10R/MC 85	5	New freeway (3 lanes each direction)	3	0	230	-	230		-
	Sub-total Loop 303	38				1,420	-	1,420		-
SR 51	Loop 101/Pima to Shea Blvd	6	Add one GP and one HOV lane.	4	1	51	32	83	IV	
	Shea Blvd to Loop 202/Red Mtn	10	-	3-5	1	-	-	-		-
	Sub-total SR 51	16				51	32	83		
SR 71	Yavapai County to US 60	5		1	0	-	-	-	-	-
SR 74	US 60/Grand Ave to Loop 303	25	-	1	0	-	-	-	-	-
	Loop 303 to I-17 Sub-total SR 74	<u>5</u> 31	-	1	0	-	-	-	-	
SR 85	I-10 to Hazen Rd Hazen Rd to I-8	5 32	Divided highway (2 lanes each direction) Divided highway (2 lanes each direction)	3 2	0 0	50 40	-	50 40		-
	I-8 to Pima County	32	-	1	0	- 40		- 40	-	-
	Sub-total SR 85	69				90	-	90		
SR 87	Gila County to Shea Blvd	34		2	0	-	-	-	-	-
	Shea Blvd to Loop 202/Red Mtn	12	-	2 2	0 0	-	-	-	-	-
	Loop 202/Red Mtn to Pinal County Sub-total SR 87	<u>18</u> 63	-	2	U	-	-	-	-	-
SR 88	Pinal County to Gila County	33		1	0	-	-	-	-	-
SR 143	Hohokam: McDowell to I-10	4		2-3	0	-	-	-		-
SR 153	Sky Harbor Expressway	2		3	0		-	-	-	-
SR 238	Buchan to Pinal County	11		1	0	-	-	-	-	-
SR 347	Maricopa Rd: I-10 to Pinal County	6		2	0	-	-	-	-	-
US 60	La Paz County to Wickenburg	31		1-2	0	-	-	-	-	-
	Grand Avenue: Wickenburg to Loop 303	28	-	2	0			-		
	Grand Avenue: Loop 303 to Loop 101	10	Widen to 3 lanes each direction, including widening/reconstructing the New River Bridge, & other improvements as funding permits.	3	0	103	-	103	Ш	-
	Grand Avenue: Loop 101 to Van Buren St (includes	11	Grade separations;other improvements to be	3	0	147	-	147	I to IV	-
	grade separations at 51st, 35th & 19th Ave) Sub-total Grand Avenue	49	determined in future study.			250	-	250		
	Superstition: I-10 to Loop 101	5	Add one GP lane.	4	1	9		9		
	Superstition: Loop 101 to Val Vista Dr	8	-	5	1	-	-	-	-	-
	Superstition: Val Vista Dr to Power Rd	4	Add two GP lanes and one HOV lane.	5	1	50	35	85	I.	1
	Superstition: Power Rd to Crismon Rd Superstition: Crismon Rd to Meridian Rd	4 2	Add one HOV lane. Add one GP lane and one HOV lane.	3 3-4	1	- 18	- 13	- 31	-	-
	Sub-total Superstition	23		04		77	48	125		
	Sub-total US 60	103				327	48	375		
US 93	Yavapai County to Wickenburg	3	-	1-2	0	-	-	-	-	-
WGF	Loop 202 to Ellsworth Rd	2	New freeway (3 lanes each direction)	3	0	155	-	155		-
	Ellsworth Rd to Meridian Rd Sub-total Williams Gateway Freeway	<u>3</u> 5	New freeway (3 lanes each direction)	3	0	<u>170</u> 325		<u>170</u> <b>325</b>	III	-
TBD	Wickenburg Bypass	TBD	Interim Bypass.	2	0	27	-	27	I	-
	R/W protection for 303L (extension south of MC 85)	TBD	Right-of-way for future freeways (construction			<u> </u>	-	100	-	
	and SR 74 (US 60 to 303L)	. 20	for which is not funded in this Plan).					100		
						\$7,171	\$860	\$8,131		

Definitions: CD: Collector Distributor Roads HOV: High Occupancy Vehicle Lanes

GP: General Purpose Lanes TBD: To be determined in future studies

\* Cost estimates listed above are preliminary and subject to change in the design process. Cost estimates for new or improved interchanges on existing freeways or highways are listed separately.

	Arterial	Regional Costs**	Phase
New Inte	rchanges on Existing Freeways & State Highways		
-10	Bullard Rd	\$ 9.2	I
	Chandler Heights	13.8	IV
	El Mirage	17.3	IV
	Perryville Rd	9.2	II
-17	Dixileta Dr (half interchange)	9.2	П
	Dove Valley Rd	18.4	IV
	Jomax Rd	18.4	I
_101	64th St	18.4	I
-	Beardsley Rd (half interchange, & reconstruct Union Hills interchange)	27.6	Ű.
	Bethany Home Rd	20.7	I.
_202	Mesa Dr (ramps only)	4.6	IV
JS 60	Superstition: Lindsay Rd (half interchange)	4.6	Ш
	Superstition: Meridian Rd (half interchange)	4.6	II
	Other Projects in ADOT FY 03-07 Program	6.7	
Subtotal		\$182.	7
New Higl	n Occupancy Vehicle Ramps at System Freeway Interchanges		
_101	I-10	\$ 60.0	IV
	l-17	72.0	IV
_202	Red Mtn & US 60/Superstition	20.4	IV
-	Santan & I-10	20.4	I
	Santan & L101/Price	20.4	III
SR 51	L101/Pima	20.4	I
Sub-tota		_ 213.	<u>6</u>
otal		\$396.	

#### Table 4: Costs and Phasing for New Interchanges and HOV Ramps (2002 Dollars, Millions)\*

ADT: Average Daily Traffic

Source: Maricopa Association of Governments, 2003

\* Not including interchanges constructed as part of new freeway construction

\*\*\* Includes contingency allowance. Assumes 100% regional funding (no local match) for new interchanges. Cost estimates listed above are preliminary and subject to change in the design process.

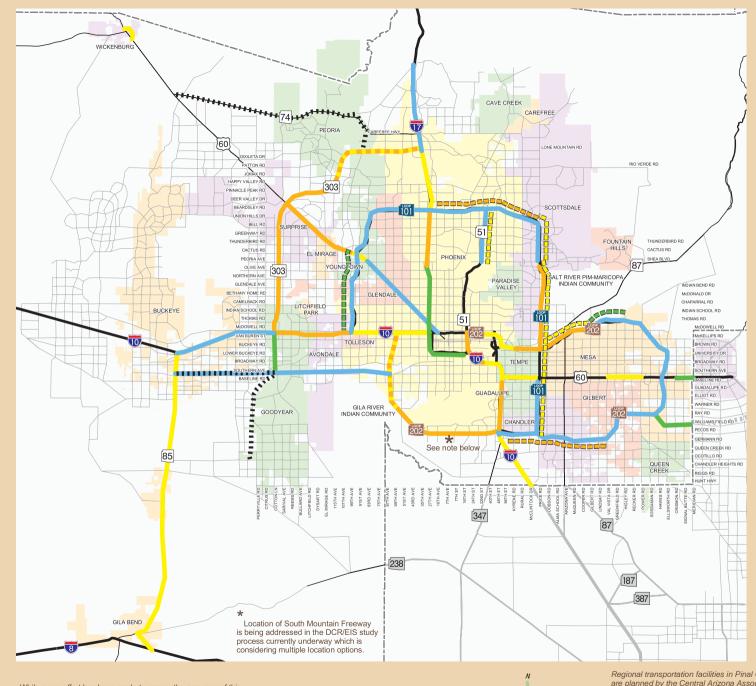
#### Table 5: Other Freeway and Highway Costs (2002 Dollars, Millions)

Category	Regional Costs*
Freeway Management System	\$ 143.0
Maintenance (landscaping, including restoration, and litter pick-up)	279.0
Noise Mitigation	75.0
Minor Projects	18.0
Total	\$515.0

Source: Maricopa Association of Governments, 2003

\* Includes contingency allowance.

Cost estimates listed above are preliminary and subject to change in the design process.



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Regional transportation facilities in Pinal County are planned by the Central Arizona Association of Governments (CAAG). Potential new facilities shown in Pinal County are from the Southeast Maricopa/Northern Pinal County Area Transporation Study jointly sponsored by MAG, CAAG, and ADOT.

# MARICOPA ASSOCIATION of GOVERNMENTS Plan Phasing Freeways/Highways

Regional Transportation Plan Executive Summary

Figure 4

REGIONAL TRANSPORTATION

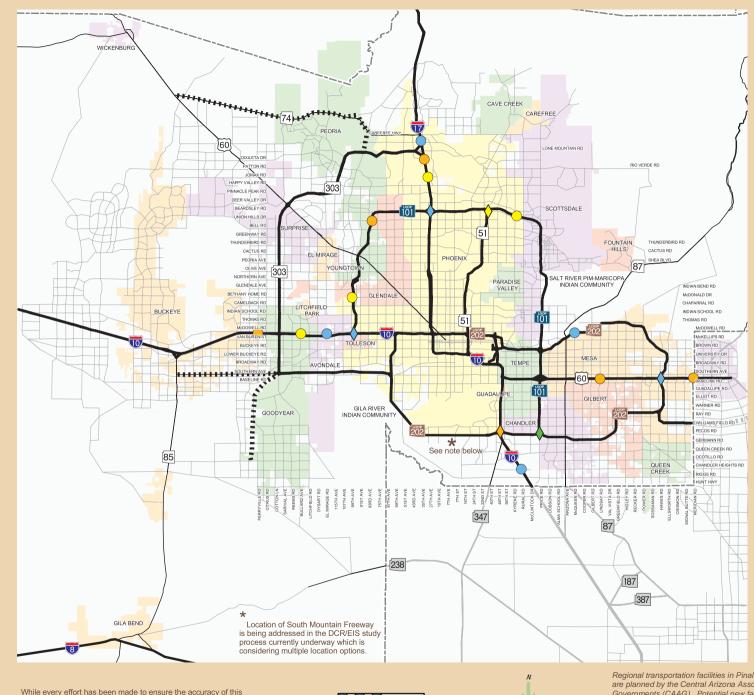
PLAN

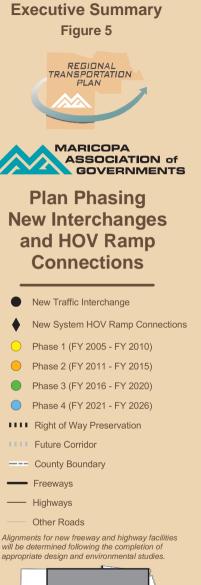
- Phase 1 (FY 2005 FY 2010)
- Phase 2 (FY 2011 FY 2015)
- Phase 3 (FY 2016 FY 2020)
- Phase 4 (FY 2021 FY 2026)
- Right of Way Preservation Phase 1 4
- Future Corridor
- --- County Boundary
- ---- Freeways
- Highways
- Other Roads

Dashed lines represent HOV lane phasing where different from General Purpose lane phasing

Alignments for new freeway and highway facilities will be determined following the completion of appropriate design and environmental studies.







**Regional Transportation Plan** 

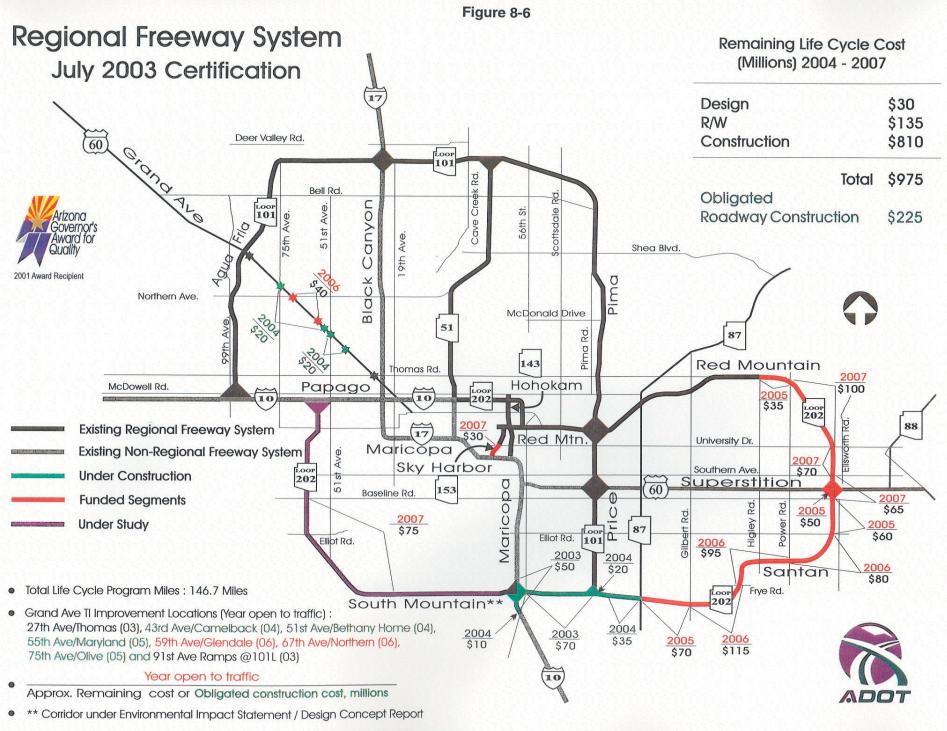


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Internet Address : http://www.dot.state.az.us/ROADS/rfs/mag I.htm

### STREETS

The RTP includes a component for major arterial streets in the MAG Region through Fiscal Year (FY) 2026. In total, \$1.5 billion, or 9.3 percent, of the regional funding identified in the RTP is allocated to projects in this element. While MAG is responsible for developing the RTP, local jurisdictions are primarily responsible for design, right-of-way acquisition, and construction and maintenance of arterial facilities as identified in the RTP.

#### **Planned New Facilities and Improvements**

The RTP provides regional funding for widening existing streets, improving intersections, and constructing new arterial segments. The continued implementation of Intelligent Transportation Systems (ITS) and dust control measures (for air quality purposes) are also included and funded. Operations and maintenance, which are funded locally, are also part of the RTP.

As displayed in Table 6, a total of \$1.5 billion from regional revenue sources is allocated to the arterial network in the Plan for major capacity improvements and new connections, new/widened arterials, intersection improvements, and ITS.

# Major Capacity Improvements and New Connections:

The continuity of the regional arterial street network is vital to efficient travel patterns. Major capacity enhancements in certain areas also make connectivity options more viable.

#### New/Widened Arterials:

As growth extends into new areas, widening and extension of the basic mile arterial street network will be needed in order to keep up with growing traffic volumes.

#### Intersection Improvements:

Congestion on the arterial street network is often caused by inadequate intersection capacity. The Plan calls for an number of intersection improvements, which enhance traffic flow and reduce congestion.

#### Intelligent Transportation System (ITS):

The Plan allocates funding for improvements as identified in the regional ITS Plan.

#### Dust Control Measures:

The Plan incorporates funding for measures to reduce PM-10 emissions generated by vehicle travel, including street sweepers and paving.

#### Phasing Priorities-Regionally Funded Projects

Table 6 summarizes costs and phasing for the regionally funded arterial street projects specified in the RTP. Figure 7 also shows the phasing of arterial projects. The period covered by the Plan was divided into four phases. This process helps to indicate the sequenced development of the projects over time. Each fiscal year ends on June 30<sup>th</sup> of the year indicated. The four phases are as follows: 1) Phase I: FY 2005 through 2010; 2) Phase II: 3) FY 2011 through 2015; Phase III: 4) FY 2016 through 2020; and Phase IV: FY 2021 through 2026.

In Phase I, key accomplishments include construction on the western end of the Northern Avenue Parkway, widening of Scottsdale Road north of Loop 101 and a series of arterial and intersection projects in the East Valley. Phase II completes several major links, including the Rio Salado Parkway and the Lake Pleasant/Beardsley link between Loop 101 and Loop 303.

In Phase III, key accomplishments include improvements on El Mirage Road, construction of the Sonoran Desert Parkway and completion of the Scottsdale Airport Tunnel. Phase IV completes the arterial street program, with major improvements to Pima Road in the northeast part of the region, completion of the last segment of the Northern Avenue Parkway, and final intersection and street projects in the East Valley.

#### Table 6: Arterial Projects, Costs and Phasing

Facility	Segment	Project	<u>Length</u> (miles)	<u>Regional Costs</u> (2002 Dollars, Millions)	Phase
Arterial Capacity Improvement	s				
101L	Princess Dr to Scottsdale Rd	Add frontage roads	2	\$ 19.1	I
101L south frontage roads	Hayden to Princess	Add frontage roads	1	11.4	I
Arizona Avenue	Ocotillo to Hunt Hwy	Widen and improve roadway	3	5.1	П
Baseline Road	Power Road to Meridian Road	Widen and improve roadway	6	14.7	IV
Beardsley Rd	Loop 101 to Lake Pleasant Pkwy	Construct roadway	3	19.1	I-II
Black Mtn Pkway	SR 51 to Blk Mtn Pkwy	Construct roadway	1	18.5	I
Broadway Rd	Dobson Rd to Country Club Dr	Widen to 6 lanes	2	6.1	I
Carefree Highway	Cave Creek Rd to Scottsdale Rd	4 lanes +median	2	7.7	Ш
Crismon Rd	Broadway Rd to Germann Rd	Widen to 6 lanes	9	30.2	IV
Dobson Rd	Salt River	Construct new bridge	1	15.3	I
El Mirage Rd	Bell Rd to Jomax Rd	Construct roadway	6	16.1	Ш
2	Paradise Ln over Grand Ave to Thunderbird Rd	Construct roadway w/ grade separation	2	17.6	I-II
	Thunderbird to Northern Ave	Widen and improve roadway	4	13.8	III
Elliot Rd	Power Rd to Meridian Rd	Widen to 6 lanes	6	14.9	IV
			_		
Germann Rd	Ellsworth Rd to Signal Butte Rd	Widen to 6 lanes	2	10.3	IV
	Gilbert Road to Power Road	Widen and improve roadway	6	18.2	I N
Gilbert Rd	Loop 202 (Santan) to Hunt Hwy	Widen Roadway	5	17.2	IV
	Salt River	Construct new bridge	1	11.5	II
Greenfield Road	Elliot Road to Warner Road	Widen and improve rRoadway	1	3.4	IV
	University Road to Baseline Road	Widen and Improve roadway	3	8.9	I
Guadalupe Road	Power Road to Meridian Road	Widen and improve roadway	6	19.0	11
Happy Valley Rd	Loop 303 to 67th Ave	6 Lane controlled access	5	17.0	IV
	67th Ave to I-17	6 Lane controlled access	4	13.6	IV
Hawes Road	Broadway Road to Ray Road	Widen and improve roadway	6	17.1	IV
Higley Rd Pkwy	US 60 to 202L (Red Mountain)	6 Lane controlled access	6	13.8	III
Jomax Rd	Loop 303 to Sun Valley Parkway	Right-of-way protection	17	17.0	III
Lake Pleasant Parkway	Beardsley to 303L	Corridor improvements	6	46.0	П
McKellips Rd	E of Sossaman to Meridian Rd	Widen to 6 lanes	5	16.4	IV
Michellips Ru	Gilbert Rd to Power Rd	Widen to 6 lanes	6	17.9	IV I
	Salt River	Construct new bridge	1	11.5	"
	Loop 101 Pima - SRPM Indian Community	6 lanes inc. median	2	32.4	I
Maridian Dal	Deseline Del la Osmanna Del		7	04.4	
Meridian Rd Mesa Dr	Baseline Rd to Germann Rd Broadway Rd to US 60	Construct 6 lane Roadway Widen to 6 lanes	7 2	24.1 7.7	11
Miller Rd/L101 Underpass	Princess to Center	Construct underpass	0.5	11.5	
Northern Ave	Grand Ave to Loop 101	Grand connection and ultimate const	4	70.0	III
	Loop 101 to Loop 303 Dysart Rd to Loop 303	L101 connection and ultimate const ROW protection and interim roadway	8 4	71.3 50.0	IV I
	Dysait Nu to E00p 303	Now protection and interim toadway	4	30.0	
Pecos Road	Ellsworth Road to Meridian Road	Widen and improve roadway	3	10.4	I
Pima Rd	Deer Valley to Happy Valley & Dynamite to Cave	e 4 lanes inc. drainage and ITS	7	68.4	II
	Creek Road Happy Valley to Dynamite	4 lanes inc. drainage and ITS	2	19.5	Ш
	S. City Limits to 90th St	4 lanes, ITS	8	25.2	1
Power Rd	Baseline Rd to Williams Field Rd	Widen to 6 lanes Widen and improve roadway	5 5	14.9 17.0	II IV
Price Rd Extension	Williams Field to Chandler Heights Loop 202 to I-10	Construct roadway	5 6	46.0	III
			-		
Queen Creek Rd	Arizona Ave to Power Rd	Widen roadway	9	31.1	П
					n <i>(</i>
Ray Road	Val Vista Road to Power Road	Widen and improve roadway	4	13.7	IV
Die Celede Divers	Sossaman Rd to Meridian Rd	Construct 4/6 lane roadway	5	20.7	IV
Rio Salado Pkwy	7th St to Loop 202 (SM)	Construct roadway	7	36.7	
Scottsdale Airport Scottsdale Rd	Runway Tunnel Thompson Peak to Happy Valley	Additional funds (original \$40 m total) 6 lanes inc. drainage and ITS	1 3	57.7 11.0	III II
	Happy Valley to Carefree Hwy	6 lanes inc. drainage and ITS	6	23.4	ü
Shea Blvd	Palisades Blvd to Saguaro Blvd	6 lanes +median	3	5.0	I
	Loop 101 to SR 87	Corridor improvements	12	19.1	IV
Signal Butte Road	Broadway Road to Pecos Road	6 lanes inc. drainage and ITS	8	27.2	IV
Sonoran Pkwy	Central to 32nd Ave	Construct roadway	4	26.8	
Southern Ave	Country Club Dr to Recker Rd Sossaman Rd to Meridian Rd	Widen to 6 lanes Widen to 6 lanes	8 5	25.3 14.9	I IV
Thomas Rd	Gilbert Rd to Val Vista Dr	Construct 4 lane roadway	2	4.6	I
Union Hills Dr	Hayden to Pima	Widen and improve roadway	1	11.2	IV
University Dr	Val Vista Dr to Hawes Rd	Widen to 6 lanes	6	17.9	IV
Val Vista Dr	University Dr to Baseline Rd	Widen to 6 lanes	3	9.1	Ш
	Warner Road to Pecos Road	Widen and improve roadway	3	9.1	II
Subtotal Arterial Capacity Impr	ovements			\$1,301.0	

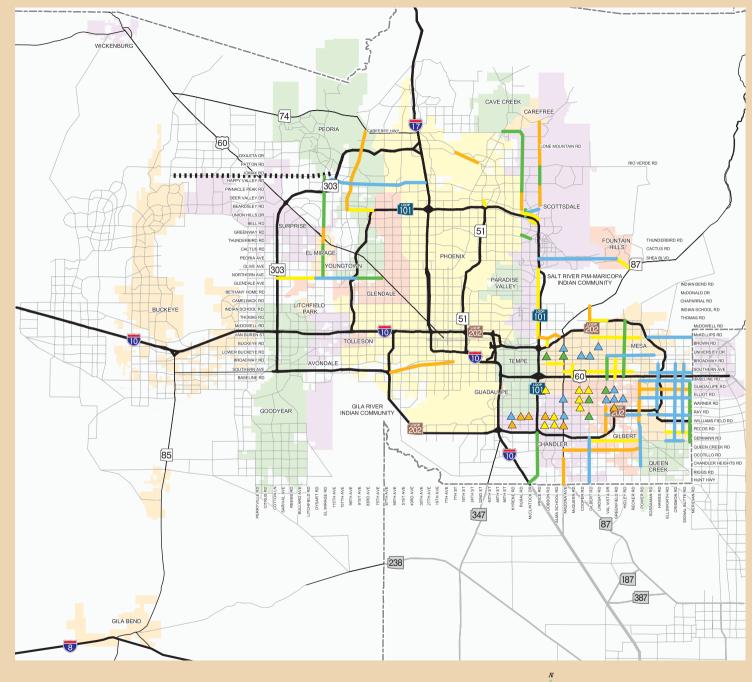
Source: Maricopa Association of Governments, 2003

#### Table 6: Arterial Projects, Costs and Phasing (continued)

Facility	Segment	Comments	Regional Costs (2002 Dollars, Millions)	Phas
ntersection Improveme	nts			
Arizona Ave	Elliot Rd	Improve intersection	\$ 3.1	IV
	Ray Rd	Improve intersection	3.1	1
	Chandler Blvd	Improve intersection	3.1	II
Chandler Blvd	Alma School Rd	Improve intersection	3.1	I
	Dobson Rd	Improve intersection	3.1	I
	Kyrene Rd	Improve intersection	3.1	II
Country Club Dr	University Dr	Improve intersection	2.3	Ш
	Brown Rd	Improve intersection	2.3	IV
Dobson Rd	Guadalupe Rd	Improve intersection	2.3	I
	University Dr	Improve intersection	2.3	111
Elliot Rd	Greenfield Rd	Improve intersection	3.1	IV
	Higley Rd	Improve intersection	3.1	I\
	Cooper Rd	Improve intersection	3.1	
	GilbertRd Val Vista Dr	Improve intersection Improve intersection	3.1 3.1	II IV
Gilbert Rd	University Dr	Improve intersection	2.3	IV
Guadalupe Rd	Greenfield Rd	Improve intersection	3.1	IV
	Power Rd	Improve intersection	3.1	I\
	Cooper Rd	Improve intersection	3.1	1
	Gilbert Rd	Improve intersection	3.1	1
	Val Vista Dr	Improve intersection	3.1	II
ligley Rd Pkwy	US 60 to 202L (Red Mt.)	Construct 3 grade separations	22.9	11
(yrene Rd	Ray Rd	Improve intersection	3.1	١٧
indsay Rd	Brown Rd	Improve intersection	2.3	١١
Ray Rd	Alma School Rd	Improve intersection	3.1	I
	Dobson Rd	Improve intersection	3.1	II
	Gilbert Rd	Improve intersection	3.1	II
	McClintock Dr	Improve intersection	3.1	1
	Rural Rd	Improve intersection	3.1	I
Stapley Dr	University Dr	Improve intersection	2.3	N
Varner Rd	Cooper Rd Greenfield Rd	Improve intersection Improve intersection	3.1 <u>3.1</u>	I I
Subtotal Intersection Im	provements		\$ 113.4	
Systemwide	Intelligent Transportation Systems		50.0	

Source: Maricopa Association of Governments, 2003

Note: Cost estimates listed above are preliminary and subject to change in the design process.



While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.



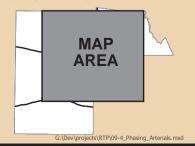


**Executive Summary** Figure 7 REGIONAL TRANSPORTATION PLAN MARICOPA ASSOCIATION of GOVERNMENTS **Plan Phasing New/Improved Arterials** ▲ Improved Intersections New/Improved Arterials Phase 1 (FY 2005 - FY 2010) Phase 2 (FY 2011 - FY 2015) Phase 3 (FY 2016 - FY 2020) Phase 4 (FY 2021 - FY 2026) **IIII** Right of Way Preservation ---- County Boundary Freeways Highways

**Regional Transportation Plan** 

Other Roads

Regional transportation facilities in Pinal County are planned by the Central Arizona Association of Governments (CAAG). Potential new facilities shown in Pinal County are from the Southeast Maricopa/Northern Pinal County Area Transporation Study jointly sponsored by MAG, CAAG, and ADOT.



### TRANSIT

The RTP provides for a range of transit facilities and services throughout the region. In total, \$5.0 billion, or 31.7 percent of the regional funding identified in the RTP is allocated to projects in this element. The transit sub-modes include: 1) regional bus, 2) high capacity transit, and 3) other transit.

#### Planned New Facilities and Service Improvements

The RTP calls for a full range of transit services in the region. A regional bus grid is funded, including operating costs, to ensure that reliable service is available on a continuing basis. In addition, light rail corridors are constructed to provide a high-capacity backbone for the transit network. Other transit services are included to provide a full range of options, such as paratransit and rural transit service. Tables 7 through 9 list the costs and phasing for these projects.

#### Regional Bus:

Regional transit services include both arterial grid and express type services that are designed to provide regional connections. Routes are designed to connect activity centers. transportation nodes, or residential areas across jurisdictional boundaries. Regional bus service consists of three categories of service: Supergrid routes, which are arterial grid routes that provide a regional connection function; Arterial Bus Rapid Transit (BRT) Routes, which operate as overlays on corridors served by local fixed route service, but provide higher speed services by operating with limited stops; and Freeway BRT Routes, which use existing and proposed high occupancy vehicle (HOV) facilities to connect remote parkand-ride lots with major activity centers, including core downtown areas.

#### High Capacity Transit:

The RTP includes a 57.5-mile Light Rail Transit (LRT) system, which incorporates the 20-mile minimum-operating segment (MOS) as designated in the Central Phoenix/East Valley Major Investment Study (MIS); a five-mile extension to Metrocenter; a five-mile extension to downtown Glendale; an 11-mile extension along I-10 west to 79<sup>th</sup> Avenue; a 12-mile extension to

Paradise Valley Mall; a two-mile extension south of the MOS on Rural Road to Southern Avenue; and a 2.7-mile extension from the east terminus of the MOS to Mesa Drive. The technology on the latter segment has not been determined. The RTP also provides for the continued investigation of commuter rail options for the region.

#### Other Transit Services:

Other transit services provided in the RTP include rural/non-fixed route transit, commuter vanpools, and paratransit transportation.

#### Cost and Phasing-Regionally Funded Facilities and Services

Figures 8 through 10 display the phasing of the proposed supergrid and rural service, the proposed freeway and arterial BRT routes, and the high capacity corridors over the duration of the planning period. The projects are grouped into four phases or time periods based on fiscal years. Fiscal years end June 30<sup>th</sup> of the year indicated. The four phases are as follows: 1) Phase I: FY 2005 through 2010; 2) Phase II: FY 2011 through 2015; 3) Phase III: FY 2016 through 2020; and 4) Phase IV: FY 2021 through 2026.

In Phase I, the emphasis is on providing consistent levels of service across several key regional bus routes in the East, Central and West Valleys. Phase I will also see the completion of the MOS of the LRT system, as well as construction of an extension to the Metrocenter Mall Transit Center. In Phase II, the regional bus system will continue to grow and LRT extensions will be added from the MOS south on Rural Road in Tempe to Southern Avenue, and east on Main Street in Mesa.

Phase III continues building on the regional bus connections defined in the previous two phases and includes investment in the I-10 LRT extension. In Phase IV, the regional bus system reaches maturity, and with the construction of the SR 51 extension, the planned program of LRT extensions will be completed. Other transit services would expand in relationship to the Plan's fixed route bus and light rail transit systems.

#### Table 7: Regional Bus Services Phasing and Costs\* (2002 Dollars, Millions)

away Express/BRT         North Lop 101 Connector (Surprise to Scottadale P&R)         I         \$ 4.5         \$ 1.0         \$ 1.1         \$ 2.5         2.1         \$ 2.5         2.5           Papago Pwy Connector (to Worth Giendale P&R)         I         3.3         0.6         0.9         1.3         1.3           Bast Loop 101 Connector (to North Giendale P&R)         I         3.2         0.4         0.9         0.9           Main Stare Annial BRT         I         1.4.2         2.0         0.0         0.9         1.3         1.3           Main Stare Annial BRT         I         0.1         1.4         2.6         2.0         0.0           Main Stare Annial BRT         I         0.1         1.4         0.8         0.3         1.0         0.5         0.3         1.0         0.5         0.3         1.0         0.5         0.3         1.0         0.5         0.3         1.0         0.5         0.3         1.0         0.5         0.3         1.0         0.5         0.3         1.0         0.5         0.3         1.0         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5 </th <th>Segment</th> <th>Phase (Regin Service)</th> <th>Operating Cost</th> <th>P</th> <th>hase I</th> <th></th> <th>ating C</th> <th>by Pha</th> <th>hase l'</th>	Segment	Phase (Regin Service)	Operating Cost	P	hase I		ating C	by Pha	hase l'
North Loop 101 Connector (Surprise to Scottadale PAR)         i         9.4         1.7         2.5         1.1         \$         1.1         \$         1.7         2.5         2.5           Papago Try, Connector (WertBuckeye PAR)         1         3.3         0.6         0.9         0.3         1.3         1.3           West Loop 101 Connector (WertBuckeye PAR)         1         5.0         0.8         1.3         1.3           Red Mountain Express         1         1.2         2.0         0.4         4.0         4.0           Main Street Anterial BRT         1         1.0         1.4         2.8         2.8         2.8           Appace Anterial BRT         1         8.6         0.8         2.5         2.5         1.0         1.0         1.0         2.5         0.3         1.0         1.		(Begin Service)			110361	1	nase n	 lase III	11436 1
North Genedate Express         I         94         1.7         2.5         2.5           Papago Proy Connector (to North Cliendale P&R)         I         5.0         0.9         1.3         1.3           East Loop 101 Connector (to North Cliendale P&R)         I         1.2         2.0         4.0         4.0           Red Mountain Express         I         1.2.2         0.4         4.0         4.0           Main Stored Antrail BRT         I         1.1.7         0.1         0.5         0.5           Desent Sty Express         I         3.6         0.6         0.5         0.5           Supersition Pwor Connector         II         0.6         0.2         0.0         1.1           Grand Avenue Linhed         II         5.0         5.5         1.1         1.1         0.1         0.5         1.1           South Connex (to Wootin Buckwy P AR)         II         7.7         0.1         0.5         1.1         1.1         0.1         0.2         0.3         1.1           Supersition Pwort PMR (BR)         II         7.6         0.8         1.1         1.1         0.5         1.2         2.0         1.1         2.0         1.2         2.0         1.2	eway Express/BRT								
Pagago Fay Connector (to West Buckey P&R)         1         3.3         0.6         0.9         0.9           West Loop 101 Connector         1         3.2         0.4         0.9         0.9           Red Mountin Express         1         1.2         2.0         4         0.9         0.9           Red Mountin Express         1         1.2         2.0         4         0.9         0.9           Main Street Arterial BRT         1         1.0         1.1         4         2.8         2.8           Descrit Sty Express         0         6.8         0.3         2.25         2.5         2.5           Buckey Express (To Market Key P&R)         1         0.7         0.1         0.5         0.5         2.5           Spectrition Fay Connector         11         0.8         -         0.8         1.2         0.5           Soctistical Kernal Aternal BRT         11         0.8         -         2.6         5         5           Soctistical Kernal Aternal BRT         11         7.8         -         2.8         -         2.8         -         2.8         -         2.8         -         2.8         -         2.8         -         2.8         -         2.8 </td <td></td> <td>I</td> <td></td> <td>\$</td> <td></td> <td>\$</td> <td></td> <td>\$</td> <td>\$</td>		I		\$		\$		\$	\$
West Loop 101 Connector (b North Glaindale P&R)       I       5.0       0.9       1.3       1.3         Red Mountain Express       I       1.4.2       2.0       4.0       4.0         Main Street Arterial BRT       I       10.1       1.4       2.8       2.8       2.8         Desert Sky Express       I       8.8       0.8       2.8       2.8       2.8         Apache Juncton Express       I       8.8       0.8       2.8       2.8         Subcry Express       I       8.8       0.8       2.8       2.8         Subcry Express       I       1.0       0.0       1.0       2.0       2.0       3.0         Prime Express (To King REX)       II       7.6       0.8       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       3.0       1.1       1.1       1.1       1.1		I							2
Eacl Loop 101 Connector       I       3.2       0.4       0.9       0.9         Red Mountin Express       I       10.1       1.4       2.8       2.8         Deent Sity Express       I       3.5       0.3       1.0       1.0         Arizona Avene Arterial BRT       I       8.6       0.8       2.5       2.5       2.5         Buckeys Express       I       3.5       0.3       1.0       0.6       0.5         Buckeys Express (No West Express (No Mest Exp		I							1
Red Mourbain Express       I       14.2       2.0       4.0       4.0         Main Stored Anterial BRT       I       6.8       0.8       2.6       2.6         Apache Junction Express       I       6.8       0.8       2.5       2.5         Antona Avenue Anterial BRT       I       6.6       0.8       2.5       2.5         Buckeye Express (to West Buckeye PAR)       I       0.7       0.2       0.3       1         Grand Avenue Limited       II       0.8       -       0.2       0.3       1         Grand Avenue Limited       II       0.8       -       0.2       2.5       1         Proise Express To Avenue Limited       III       0.8       -       0.3       1       1         South Central Avenue Limited       III       0.8       -       0.5       -       2.8       -       2.8       -       2.8       -       2.8       -       2.8       -       2.8       -       2.8       -       2.8       -       -       2.8       -       -       2.8       -       -       2.8       -       -       -       2.8       -       -       -       -       -       -       -		I							1
Main Street Anerial BRT       I       10,1       1,4       2,8       2,8         Desert Silv Express       I       3,5       0,3       1,0       1,0         Arizona Avenue Arteial BRT       I       8,6       0,8       2,5       2,5         Buckeye Express (to West Buckeye PSR)       I       1,7       0,1       0,2       0,3         Prima Express (to Angark PSR)       II       2,3       -       0,8       1,1         Grad Avenue Lamide       II       2,3       -       0,8       1,1         Grad Avenue       III       2,3       -       0,8       1,1       -         Supersition Avenue       III       2,1       3       3,1       -       0,2       2,7       3,9         South Central Avenue       IIII       3,8       -       0,2       2,2       -       Antonia Avenue       1,8       -       0,2       2,2       -       -       1,8       -       0,2       2,2       -       -       0,5       -       -       0,5       -       -       0,5       -       -       -       -       -       -       -       -       -       -       -       -       -		I							1
Image of Single Express       I       8.8       0.8       2.6       2.6         Apaceba Junction Express       I       8.6       0.8       2.0       1         Anzona Avenue Artenial BRT       I       8.6       0.8       2.0       0.5         Supersition Fay Connector       II       0.8       -       0.8       0.8       2       0.8       1         Grand Avenue Limited       II       9.4       -       0.8       1       1       0.8       2       0.8       2       0.8       2       0.8       2       0.8       2       0.8       2	•	I							4
Apache Juncion Express       I       3.5       0.3       1.0       1.0         Arizona Avenue Arterial BRT       I       8.6       0.8       2.5       2.5         Buckeye Express (fo Myest Buckeye PR)       I       1.7       0.1       0.5       0.5         Supersition Fwy Connector       II       3.2       -       0.2       0.3         Prima Express (fo Adripart PAR)       II       3.2       -       0.2       0.3         Soutication Fory Connector       II       9.0       -       0.8       4.2         Peria Express (fo Partine PAR)       II       7.6       -       0.9       3.1         Soutic Central Avenue Anterial BRT       III       3.6       -       0.5       2       2.6         Soutic Central Avenue Anterial BRT       III       3.6       -       -       0.5       5         Soutic Central Avenue Anterial BRT       III       2.3       -       -       0.5       5         Soutic Central Avenue Anterial BRT       III       2.4       -       -       0.5       -         Soutic Central Fory Connector       IIII       2.3       7       -       -       -       -         Deer Valley Express		I							3
Aircona Avenue Arteriat BRT       I       8.6       0.8       2.5       2.5         Buckeye Express (0 Wargar K-PR)       II       0.8       -       0.5       0.5         Spersetion Fwy Connector       II       0.8       -       0.8       1       -         Grand Avenue Limited       II       0.8       -       0.8       1       -         Scottsfald Krual Arterial BRT       II       7.6       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       0.8       -       -       -       0.8       -       -       -       0.5       -       -       -       0.5       -		1							2
Buckeye Express (or Vest Buckeye PAR)         I         1.7         0.1         0.2         0.3           Supersition Rwy Connector         II         3.2         -         0.4         1.3         1           Grand Avenue Limited         II         5.4         -         1.3         1.1         1.3           SoutSotale/Rural Aterial BRT         II         9.0         -         0.8         4.2           Peroita Express (to Poriot PAR)         II         7.6         -         0.9         3.1           SoutSotale/Rural Avenue Arrial BRT         II         3.8         -         0.5         2.2         2.2           Anthette Express         III         9.1         -         -         0.5         3           Santan Express         III         9.1         -         -         0.5         3           Superstition Springs Express         III         9.4         -         -         0.6         -           North 17 Express         III         9.4         -         -         0.5         -           Statiate Express         III         9.4         -         -         -         -           Regional Pasemegas Express         III         9.4		1							
Supersition Fwy Connector       II       0.8       -       0.8       1.1         Grand Avenue Limited       II       5.4       -       0.8       1.1         Scottsfald/Rural Arterial BRT       II       5.4       -       0.8       3.1         Scottsfald/Rural Avenue       III       7.6       -       0.8       3.1         Scottsfald/Rural Avenue       III       7.6       -       0.8       3.1         Scottsfald/Avenue Arterial BRT       III       3.8       -       0.2       2.7       8         Stantan Express       III       1.1       -       -       0.5       8         Stantan Express       III       2.4       -       -       0.5       8         Red Mountain Fwy Connector       III       2.3       -       -       0.5       8         Stantan Express       III       5.4       -       -       0.5       8       1.5       1.5       -       -       0.5       5         Stantan Express       III       1.6       2.1       1.6       2.1       1.5       1.5       -       -       1.5       1.5       1.5       1.5       1.5       1.5       1.5       1		1							2
Pina Express (To Aupark P&R)       II       9.2        0.8       1.1         Grand Avenue Limited       II       9.0        0.8       4.2         Peoria Express (to Pooria P&R)       II       7.6       .0.9       3.1         S. Central Avenue       III       2.13        0.5       1.6         Black Caryon Freeway Corridor       III       4.8        0.2       2.2       2.2         Atvantake Connector       III       9.1         0.5       5         Santon Express       III       9.1         0.5       5         Superstition Springs Express       III       9.4         0.5       5         Superstition Springs Express       III       9.4         0.5       5         North I-17 Express       III       9.4           1         Loop 302 Express       IV       0.7 </td <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1							
Grand Avenue Limited       II       5, 4       -       1,3       1,9         Scottadalkrual Atrainal BRT       II       7,6       -       0,9       3,1         S. Central Avenue Arterial BRT       II       2,13       -       2,2       8,9         South Central Avenue Arterial BRT       II       4,8       -       0,5       1,6         Black Caryon Freeway Controlor       III       4,8       -       -       2,8         Anthem Express       IIII       2,3       -       -       2,8         Anthem Express       IIII       2,4       -       -       2,8         Reid Mountain Fwy Connector       IIII       2,3       -       -       3,3       1         Deer Valley Express       IIII       6,6       -       -       0,5       -         Avondale Express       IIII       6,6       -       -       -       -       -         Loop 303 Express       III       6,6       - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Socitsdalan/Rural Arterial BRT         II         9.00          0.8         4.2           Peoria Express (to Peoria PAR)         II         2.13          2.7         8.9           South Central Avenue Menial BRT         II         3.8          0.2         2.7         8.9           Black Caryon Freeway Corridor         III         4.8          0.2         2.5         5           Anvanuke Connector         III         2.4           0.5         -           Superstino Springs Express         III         9.4          -         0.5         -           Superstino Springs Express         III         9.4          -         0.5         -           Superstino Springs Express         III         9.4          -         -         -           Superstino Springs Express         III         9.4         -									
Penia Express (r) Penia PAR)       II       7.6        0.9       3.1         S. Central Avenue Anterial BRT       II       3.8        0.5       1.6         Black Caryon Freeway Controin       III       4.8        0.5       2.2         Ahwatukke Connector       III       1.1        -       0.5       -         Santan Express       III       2.3        -       0.5       -         Supersition Spring Express       III       9.4        -       0.5       -         Supersition Spring Express       III       9.4        -       0.8       -         Avondale Express       III       6.6        -       0.5       -         Loog 303 Express       IV       3.7        -       -       -         Chandler Boulevard Arenial BRT       IV       14.1       - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
S. Central Avenue Anrai BRT       II       21.3       -       2.7       8.9         Back Canyon Freeway Corridor       II       4.8       -       0.2       2.2         Anventice Connector       III       1.1       -       -       2.8         Anventice Connector       III       2.4       -       -       2.8         Red Mountain Express       III       2.3       -       -       0.05         Superstition Spring Express       III       9.4       -       -       0.05         Superstition Spring Express       III       9.4       -       -       0.05         North I-17 Express       IV       0.7       -       -       0.06         North I-17 Express       IV       0.7       -       -       -         Subtotal       Persens       IV       1.4       -       -       -         Subtotal       Persens       IV       1.4       -       -       -       -         Subtotal Avenue       I       1.6       8.2       2.07       \$       2.08       \$       2.08       \$       2.08       \$       2.08       \$       2.08       \$       2.08       \$       2.08<									
South Central Avenue Arterial BRT       II       3.8       -       0.5       1.6         Black Compo Freeway Corridor       III       1.1       -       -       0.5         Anhwatukee Connector       III       1.1       -       -       0.5         Santan Express       III       2.4       -       -       0.5         Supersition Springe Express       III       6.6       -       -       0.5         Supersition Springe Express       III       6.6       -       -       0.5         North I-T Express       III       6.6       -       -       0.5         North I-T Express       IV       0.7       -       -       0.5         North I-T Express       IV       0.7       -       -       -       1         Avendale Express       IV       1.41       2.9       5.2       1       1         Stottal Passenge Support Services       21.9       1.1       2.9       5.2       1       3       3.0       2         Stottal Avenue       I       1.6       2.1       3       3.0       3       3       3       3       3       3       3       3       3       3									
Black Canyon Freeway Corridor         II         4.8         -         0.2         2.2           Ahwatkee Connector         III         9.1         -         -         2.8           Anhem Express         III         2.4         -         -         2.8           Anhem Express         III         2.3         -         -         0.5           Superstitus Springe Express         III         6.6         -         0.8           Avondale Express         III         6.6         -         0.5           North 12 Express         IV         0.7         -         -         -           Loop 303 Express         IV         3.7         -         -         -         1           Avondale Express         IV         3.41         -         -         -         -         1           Avondale Express         IV         1.41         -         -         -         1         1           Absolute Express         IV         1.41         2.0         5         2.0         1         1           Stottofall         Stottofall         III         5         8.32         2         2.7         2.8.7         2.8         2.8 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Anvelukee Connector       III       1.1       -       -       0.5         Santan Express       III       2.4       -       -       0.5         Red Mountain Fwy Connector       III       2.3       -       -       0.5         Supersition Springe Express       III       15.5       -       -       0.3       1         Dere Valley Express       III       6.6       -       -       0.5       -       -       0.5         North I-T Express       IV       0.7       -       -       -       0.5       -       -       0.5         Ochandler Express       IV       0.7       -									
Santan Express       III       9.1       -       -       2.8         Red Mountain Express       III       2.3       -       -       0.5         Superstitus Springs Express       III       9.4       -       -       3.3       1         Deer Valley Express       III       9.6       -       0.5       -       0.5         North 1-17 Express       IV       0.7       - <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>					-				
Anthem Express       III       2.4       -       -       0.5         Red Mountain Fwy Connector       III       15.5       -       -       0.3       1         Deer Valley Express       III       9.4       -       0.8       -       0.8       -         Avordade Express       III       9.4       -       0.8       -       0.8       -         North I-17 Express       IV       0.7       -					-				
Red Mountain Fwy Connector         III         2.3         -         -         0.5           Superstituto Springs Express         III         0.4         -         -         0.8           Avondale Express         III         0.6         -         0.5         -           North I-T Express         IV         0.7         -         -         -         -           Loop 303 Express         IV         3.7         -	•				-				
Superstition Springs Express       III       15.5       -       -       3.3       1         Deer Valley Express       III       6.6       -       -       0.5         North 17 Express       IV       0.7       -       -       -         SR, 51 Express       IV       3.7       -       -       -       -         Chandler Boulevard Arterial BRT       IV       1.1       2.9       5.2       1         Regional Passenger Support Services       V       1.1       2.9       5.2       1         Subtotal       Soutsdale/Rural       I       \$ 8.3.2       \$ 2.0.7       \$ 2.8       \$ 2.8       \$ 2.9         Subtotal       I       1.6       \$ 2.3.2       7.8       7.8       7.8       7.8         Soutsdale/Rural       I       \$ 8.3.2       \$ 2.0.7       \$ 2.8       \$ 2.8       \$ 2.7       2.5.7					-				
Der Valley Express         III         9.4         -         0.3           Avondale Express         III         6.6         -         0.5           North 1-17 Express         IV         0.7         -         -           Loop 303 Express         IV         3.7         -         -         -           SR. 51 Express         IV         3.7         -         -         -         1           Advanduke Express         IV         1.41         -         -         -         1           Advanduke Express         IV         1.41         -         -         -         1           Advanduke Express         IV         1.0         5         31.1         5         5.7         5         1           Advanduke Express         IV         1.0         5         30.2         5         2.0         5         2.0         5         1         3.0           Subtotal         I         7.6         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7         2.7					-				
Avondale Éxpress         III         6.6         -         -         0.5           North 1-17 Express         IV         0.7         -         -         -           SR. 51 Express         IV         3.7         -         -         -           Chandler Boulevard Aterial BRT         IV         14.1         -         -         -         -           Chandler Boulevard Aterial BRT         IV         12.0         -         -         -         1           Regional Passenger Support Services         21.2         S         11.1         2.9         3.0.5         S         5.2         7         S         20.8         \$         2.0.8         \$         2.0.8         \$         2.0.8         \$         2.0.8         \$         2.0.8         \$         2.0.8         \$         2.0.7         \$         2.0.8         \$         2.0.8         \$         2.0.7         \$         2.0.8         \$         2.0.7         \$         2.0.8         \$         2.0.7         \$         2.0.8         \$         2.0.7         \$         2.0.7         \$         2.0.7         \$         2.0.7         \$         2.0.7         \$         7.0         \$         2.0.7         \$					-		-		
North 1-17 Express         V         0.7         -         -         -           Loop 303 Express         V         3.7         -         -         -           SR, 51 Express         V         5.4         -         -         -         1           Chandler Boulevard Arterial BRT         V         14.1         -         -         -         1           Advective Express         V         12.9         1.1         2.9         5.2         1           Subtotal         S         232.1         S         1         3.0         5         2         1           Subtotal         S         232.1         S         20.7         S         20.8         S         2.0.8         S         2.0.8         S         2.0.8         S         2.0.8         S         2.0.7         S         2.0.8         S         2.0.7         S         2.0.8         S         2.0.7         S         2.0.8         S         2.0.7         S         2.0.7         Z         7.7         Z.7         Z					-		-		
Loop 303 Express       IV       3.7       -       -       -       -         SR, 61 Express       IV       14.1       -       -       -       1         Ahwatukee Express       IV       12.0       -       -       -       1         Regional Passenger Support Services       21.9       1.1       \$       30.5       \$       52       7         Subtotal       \$       232.1       \$       11.1       \$       20.8					-		-		
SR. 51 Express       IV       5.4       -       -       -         Chandler Boulevard Arterial BRT       IV       14.1       -       -       -       1         Anwattkee Express       IV       12.0       -       -       -       1         Regional Passenger Support Services       21.9       1.1       2.9       5.2       1       3         soutotal       \$232.1       \$11.1       \$2       30.5       \$5       5.6       \$1         sergrid Route       I       11.6       2.1       3.0       3.0       3.0       3.0         Genedale Avenue       I       11.6       2.1       3.0       3.0       3.0       3.0         Main Street       I       17.0       2.4       4.7       4.7       7.8       7.8         Baseline-Southern/Obton ext       I       26.6       2.3       7.8       7.8       7.8       7.8         Chandler Bivd.       I       22.2       7.7       7.0       7.0       7.0       7.0         University Drive (to Ellsworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       41.1       -       14.3<	•				-		-	-	
Chandler Boulevard Arterial BRT       IV       14.1       -       -       -       1         Ahwatukae Express       21.9       1.1       2.9       5.2       1         Subtotal       \$       23.2.1       \$       11.1       \$       30.5       \$       5.7       \$       1         Subtotal       \$       23.2.1       \$       11.1       \$       30.5       \$       5.2       1         Subtotal       \$       23.2.1       \$       11.1       \$       30.5       \$       5.2       1.5         Scottsdale/Rural       I       17.0       2.4.7       3.0       3.0       \$       2.8 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td>					-		-	-	
Ahvatukee Express       IV       12.0       -       -       -       -       -       1       2.9       5.2       1         Baseinger Support Services       21.2       232.1       8       11.1       2.9       5.2       1       5.2       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.7       5       5.8       5.7       5       5.8       5.7       5       5.8       5.0       5.7       5.2       6.7       7       20.8       5	•	IV	14.1		-		-	-	1
Regional Passenger Support Services       21.9       1.1       2.9       5.2       1         Subtotal       \$ 232.1       \$       1.1       \$       \$ 30.5       \$       5.7.6       \$       \$       1         segrid Route       I       \$       83.2       \$       20.7       \$       \$       20.8       \$ <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>1</td>					-		-	-	1
Subtotal         \$ 232.1         \$ 11.1         \$ 30.5         \$ 5.76         \$ 13           pergrid Route         I         \$ 83.2         \$ 20.7         \$ 20.8 <td></td> <td></td> <td></td> <td></td> <td>1.1</td> <td></td> <td>2.9</td> <td>5.2</td> <td>1</td>					1.1		2.9	5.2	1
Scottsdale/Rural         I         \$ 83.2         \$ 20.7         \$ 20.8         \$				\$	11.1	\$	30.5	\$ 57.6	\$ 13
Glendale Avenue       I       11.6       2.1       3.0       3.0         Main Street       I       17.0       2.4       4.7       4.7         Baseline/Southern/Dobson ext       I       87.3       7.7       25.7       25.7       2         Arizona Avenue/Country Club       I       26.6       2.3       7.8       7.8       7.0         Gilbert Road       I       22.2       0.7       7.0       7.0       7.0         University Drive (to Elisworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       6.1       -       1.8       2.0       0       1.0.3       14.7       1         Broadway       II       41.1       -       10.3       14.7       1         Hayden/McClintock       II       41.6       -       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       35.3       -       4.4       14.7       1         McDowell/McKellips       II       3.9       -       0.5       1.6       -         Taturn/44th Street       II       3.9	pergrid Route								
Glendale Avenue       I       11.6       2.1       3.0       3.0         Main Street       I       17.0       2.4       4.7       4.7         Baseline/Southern/Dobson ext       I       87.3       7.7       25.7       25.7       2         Arizona Avenue/Country Club       I       26.6       2.3       7.8       7.8       7.0         Gilbert Road       I       22.2       0.7       7.0       7.0       7.0         University Drive (to Elisworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       6.1       -       1.8       2.0       0       1.0.3       14.7       1         Broadway       II       41.1       -       10.3       14.7       1         Hayden/McClintock       II       41.6       -       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       35.3       -       4.4       14.7       1         McDowell/McKellips       II       3.9       -       0.5       1.6       -         Taturn/44th Street       II       3.9	Scottsdale/Rural	I.	\$ 83.2	\$	20.7	\$	20.8	\$ 20.8	\$ 2
Baseline/Southern/Dobson ext       I       87.3       7.7       25.7       25.7       2         Arizona Avenue/County Club       I       25.3       2.2       7.4       7.4         Gilbert Road       I       26.6       2.3       7.8       7.8         Chandler Blvd.       I       22.2       0.7       7.0       7.0         University Drive (to Elisworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       6.1       -       1.8       2.0       0.0       0.0       1.4.7       1         Broadway       II       41.1       -       10.3       14.7       1       1.0       1.4.7       1         Alma School Rd.       II       40.6       -       10.2       14.5       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave/Shea (3)       II       11.2.6       -       2.4       4.9       -         Dysart Road       II       11.4       -       1.4       4.7       1         Power Road       II       13.9       -       0.5       1.6         Ray	Glendale Avenue	I	11.6		2.1				
Arizona Avenue/Country Club       I       25.3       2.2       7.4       7.4         Gilbert Road       I       26.6       2.3       7.8       7.8         Chandler Blvd.       I       22.2       0.7       7.0       7.0         University Drive (to Ellsworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       6.1       -       1.8       2.0         Broadway       II       41.1       -       10.3       14.7       1         Elliot Road       II       40.6       -       10.2       14.5       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayder/McClintock       II       11.2       -       8.0       16.0       1         Peoria Ave/Shea (3)       II       11.6       -       1.4       4.7       1         Dysart Road       II       35.3       -       4.4       14.7       1         McDowell/McKellips       II       3.9       -       0.5       1.6         Ray Road       II       41.9       -       5.2       17.5       1	Main Street	I	17.0		2.4		4.7	4.7	
Gilbert Road       I       26.6       2.3       7.8       7.8         Chandler Blvd.       I       22.2       0.7       7.0       7.0         University Drive (to Ellsworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       6.1       -       18.2       0       10.3       14.7       1         Elliot Road       II       40.6       -       10.2       14.5       1       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       35.3       -       4.4       14.7       1         McDowel/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       15.2       -       19       6.3       3         Tatum/44th Street       II       3.9       -       0.5       1.6         Ray Road       II       14.9       -       5.2	Baseline/Southern/Dobson ext	I	87.3		7.7		25.7	25.7	2
Gilbert Road       I       26.6       2.3       7.8       7.8         Chandler Blvd.       I       22.2       0.7       7.0       7.0         University Drive (to Ellsworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       6.1       -       1.8       2.0         Broadway       II       41.1       -       10.3       14.7       1         Elliot Road       II       40.6       -       10.2       14.5       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9       1         Dysart Road       II       11.4       -       1.4       4.7       1         McDowel/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       15.2       -       1.9       6.3       -         Queen Creek Road (Peocs P&R to Power Road)       III       2.5       1.6       -		I	25.3		2.2		7.4	7.4	
University Drive (to Ellsworth Road)       II       42.3       -       12.7       14.1       1         Camelback Road       II       6.1       -       1.8       2.0         Broadway       II       41.1       -       10.3       14.7       1         Elliot Road       II       40.6       -       10.2       14.5       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9       9         Dysart Road       II       8.2       -       1.6       3.2       -         McDowell/McKellips       II       11.4       -       1.4       4.7       1         Power Road       II       11.4       -       1.4       4.7       1         Power Road       II       11.4       -       1.4       4.7       1         Power Road       II       3.3       -       4.4       4.7       1         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -		I	26.6		2.3		7.8	7.8	
Camelback Road       II       6.1       -       1.8       2.0         Broadway       II       41.1       -       10.3       14.7       1         Elliot Road       II       40.6       -       10.2       14.5       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave_/Shea (3)       II       12.6       -       2.4       4.9       1         Dysart Road       II       8.2       -       1.6       3.2       59th Avenue       11       11.4       4.7       1         McDowell/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       15.2       -       1.9       6.3       1         Tatum/44th Street       II       3.9       -       0.5       1.6       1         Van Buren       II       8.6       -       0.4       3.9       1         Queen Creek Road (Pecos P&R to Power Road)       III       5.3       -       -       1.7         Thomas Road (2)       II	Chandler Blvd.	I	22.2		0.7		7.0	7.0	
Broadway       II       41,1       -       10.3       14,7       1         Elliot Road       II       40,6       -       10.2       14,5       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       8.2       -       1.6       3.2         59th Avenue       II       11.4       -       1.4       4.7       1         Power Road       II       3.9       -       0.5       1.6       3.2         Tatum/4th Street       II       3.9       -       0.5       1.6       3.9         Queen Creek Road (Pecos P&R to Power Road)       III       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9       -       1.6       1.7         Bell Road (via 303)       III       14.8       -       -       1.6       1.7       1.7         Buckeye Road (Litchfield Road to Central Ave.)	University Drive (to Ellsworth Road)	Ш	42.3		-		12.7	14.1	1
Broadway       II       41.1       -       10.3       14.7       1         Elliot Road       II       40.6       -       10.2       14.5       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9       1         Dysart Road       II       8.2       -       1.6       3.2       -         Sth Avenue       II       11.4       -       1.4       4.7       1         Power Road       II       35.3       -       4.4       14.7       1         Power Road       II       3.9       -       0.5       1.6       -         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9       -         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       1.7       -         Bel Road (via 303)       III       11.7       -       -		Ш			-		1.8	2.0	
Elliot Road       II       40.6       -       10.2       14.5       1         Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       8.2       -       1.6       3.2         59th Avenue       II       11.4       -       1.4       4.7       1         McDowell/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       3.9       -       0.5       1.6       1.6       3.2         Tatum/44th Street       II       3.9       -       0.5       1.6       1.6       1.1       1		Ш			-		10.3	14.7	1
Alma School Rd.       II       26.8       -       6.7       9.6       1         Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       8.2       -       1.6       3.2         59th Avenue       II       11.4       -       1.4       4.7         McDowell/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       15.2       -       1.9       6.3       -         Tatum/44th Street       II       3.9       -       0.5       1.6       -         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9       -         Queen Creek Road (Pecos P&R to Power Road)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7       -       3.7         Buckeye Road (Litchfield Road to Central Ave.)       III       1.8       -					-				
Hayden/McClintock       II       41.7       -       8.0       16.0       1         Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       8.2       -       1.6       3.2         59th Avenue       II       11.4       -       1.4       4.7       1         McDowell/McKellips       II       35.3       -       4.4       1.7       1         Power Road       II       15.2       -       1.9       6.3       -         Tatum/44th Street       II       3.9       -       0.5       1.6       -         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9       -         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       10.0       1         Bell Road (via 303)       III       14.8       -       -       1.7       -         Thomas Road (2)       III       11.7       -       -       3.7       -         Dunlap/Olive Avenue       III       5.5       -       -       1.2	Alma School Rd.	Ш			-				
Peoria Ave./Shea (3)       II       12.6       -       2.4       4.9         Dysart Road       II       8.2       -       1.6       3.2         59th Avenue       II       11.4       -       1.4       4.7         McDowell/McKellips       II       35.3       -       4.4       14.7         Power Road       II       35.3       -       4.4       14.7         Power Road       II       35.3       -       4.4       14.7         Tatum/44th Street       II       3.9       -       0.5       1.6         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9       -         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       10.0       1         Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7         Buckeye Road (Litchfield Road to Central Ave.)       III       9.5       -       2.0         Dunlap/Olive Avenue       III       5.5	Hayden/McClintock				-				1
Dysart Road       II       8.2       -       1.6       3.2         59th Avenue       II       11.4       -       1.4       4.7         McDowell/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       15.2       -       1.9       6.3       -       1.6       3.2         Tatum/4th Street       II       3.9       -       0.5       1.6       -       -       1.6       -         Ray Road       II       3.9       -       0.5       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       -       -       1.6       3.2       -       -       1.6       3.2       -       -       1.6       3.2       -       -       1.6       3.2       -       -       1.6       3.2       -       -       -       - <td>•</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	•				-				
Syth Avenue       II       11.4       -       1.4       4.7         McDowell/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       15.2       -       1.9       6.3         Tatum/44th Street       II       3.9       -       0.5       1.6         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9       -       0.0       1         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7         Thomas Road (2)       III       11.7       -       3.7         Buckeye Road (Lichfield Road to Central Ave.)       III       2.0       -       0.4         Dunlap/Olive Avenue       III       1.8       -       -       1.2         99th Avenue       III       1.8       -       -       -         B3rd Avenue/75th Avenue	Dysart Road	II			-		1.6	3.2	
McDowell/McKellips       II       35.3       -       4.4       14.7       1         Power Road       II       15.2       -       1.9       6.3         Tatum/44th Street       II       3.9       -       0.5       1.6         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9       -         Queen Creek Road (Pecos P&R to Power Road)       III       8.6       -       0.4       3.9       -         Queen Creek Road (Pecos P&R to Power Road)       III       14.8       -       -       4.6       1         Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7       -         Buckeye Road (Lichfield Road to Central Ave.)       III       11.7       -       3.7       -       2.0         Dunlap/Olive Avenue       III       9.5       -       -       2.0       -       1.2         99th Avenue/75th Avenue       III       1.8       -       -       -       -       -         Litchfield	-	П			-		1.4		
Power Road       II       15.2       -       1.9       6.3         Tatum/44th Street       II       3.9       -       0.5       1.6         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       10.0       1         Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7       -         Thomas Road (2)       III       11.7       -       3.7       -       -       1.7         Buckeye Road (Litchfield Road to Central Ave.)       III       9.5       -       -       0.4         Indian School Road       III       9.5       -       -       1.2       -         99th Avenue       III       1.8       -       -       -       -         199th Avenue       IV       3.0       -       -       -       -         Litchfield Road       IV       3.0       -       -       -       <					-				
Tatum/44th Street       II       3.9       -       0.5       1.6         Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       10.0       11         Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7       -         Thomas Road (2)       III       11.7       -       -       3.7       -         Buckeye Road (Litchfield Road to Central Ave.)       III       2.0       -       0.4       -         Indian School Road       III       9.5       -       -       2.0       -         Unlap/Olive Avenue       III       1.8       -       -       0.4         83rd Avenue/75th Avenue       IV       3.0       -       -       -         Litchfield Road       IV       3.0       -       -       -       -         Greenfield Road       IV       5.3       -       -       -       -	•				-				
Ray Road       II       41.9       -       5.2       17.5       1         Van Buren       II       8.6       -       0.4       3.9         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       10.0       1         Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddel/Thunderbird       III       5.3       -       -       1.7       -         Thomas Road (2)       III       11.7       -       -       3.7       -         Buckeye Road (Litchfield Road to Central Ave.)       III       2.0       -       0.4       -         Indian School Road       III       9.5       -       -       1.2       -         99th Avenue       III       5.5       -       -       1.2       -         99th Avenue/75th Avenue       IV       4.8       -       -       -         Litchfield Road       IV       3.0       -       -       -         Greenfield Road       IV       5.3       -       -       -         Regional Passenger Support Services       78.5       4.2       16.2       25.6       3 <td>Tatum/44th Street</td> <td>II</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	Tatum/44th Street	II			-				
Van Buren       II       8.6       -       0.4       3.9         Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       10.0       1         Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7         Thomas Road (2)       III       11.7       -       -       3.7         Buckeye Road (Litchfield Road to Central Ave.)       III       2.0       -       0.4         Indian School Road       III       9.5       -       1.2         99th Avenue       III       1.8       -       -       0.4         83rd Avenue/75th Avenue       IV       4.8       -       -       -         Litchfield Road       IV       3.0       -       -       -         Greenfield Road       IV       5.3       -       -       -         Regional Passenger Support Services       78.5       4.2       16.2       25.6       3	Ray Road	II			-				1
Queen Creek Road (Pecos P&R to Power Road)       III       25.8       -       -       10.0       1         Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       -       1.7         Thomas Road (2)       III       11.7       -       -       3.7         Buckeye Road (Litchfield Road to Central Ave.)       III       2.0       -       0.4         Indian School Road       III       9.5       -       2.0         Dunlap/Olive Avenue       III       1.8       -       0.4         83rd Avenue/75th Avenue       IV       4.8       -       -         Litchfield Road       IV       3.0       -       -       -         Greenfield Road       IV       5.3       -       -       -         Regional Passenger Support Services       78.5       4.2       16.2       25.6       3	•	II	8.6		-		0.4		
Bell Road (via 303)       III       14.8       -       -       4.6       1         Waddell/Thunderbird       III       5.3       -       1.7       1.7         Thomas Road (2)       III       11.7       -       3.7       3.7         Buckeye Road (Lichfield Road to Central Ave.)       III       2.0       -       0.4       1.2         Indian School Road       III       9.5       -       2.0       1.2         Dunlap/Olive Avenue       III       1.8       -       0.4         83rd Avenue/75th Avenue       III       1.8       -       0.4         Litchfield Road       IV       3.0       -       -       -         Greenfield Road       IV       5.3       -       -       -         Regional Passenger Support Services       78.5       4.2       16.2       25.6       3		III	25.8		-		-	10.0	1
Waddell/Thunderbird         III         5.3         -         -         1.7           Thomas Road (2)         III         11.7         -         3.7           Buckeye Road (Litchfield Road to Central Ave.)         III         2.0         -         0.4           Indian School Road         III         9.5         -         2.0           Dunlap/Olive Avenue         III         5.5         -         1.2           99th Avenue         III         1.8         -         0.4           83rd Avenue/75th Avenue         IV         4.8         -         -           Litchfield Road         IV         3.0         -         -           Greenfield Road         IV         5.3         -         -           Regional Passenger Support Services         78.5         4.2         16.2         25.6         3		III	14.8		-		-		1
Thomas Road (2)       III       11.7       -       -       3.7         Buckeye Road (Litchfield Road to Central Ave.)       III       2.0       -       0.4         Indian School Road       III       9.5       -       2.0         Dunlap/Olive Avenue       III       5.5       -       2.0         99th Avenue/75th Avenue       III       1.8       -       0.4         83rd Avenue/75th Avenue       IV       4.8       -       -         Litchfield Road       IV       3.0       -       -         Greenfield Road       IV       5.3       -       -         Regional Passenger Support Services       78.5       4.2       16.2       25.6       3		III			-		-		
Indian School Road       III       9.5       -       -       2.0         Dunlap/Olive Avenue       III       5.5       -       -       1.2         99th Avenue       III       1.8       -       0.4         83rd Avenue/75th Avenue       IV       4.8       -       -         Litchfield Road       IV       3.0       -       -         Greenfield Road       IV       5.3       -       -         Regional Passenger Support Services       78.5       4.2       16.2       25.6       3	Thomas Road (2)	111	11.7		-		-	3.7	
Dunlap/Olive Avenue         III         5.5         -         1.2           99th Avenue         III         1.8         -         0.4           83rd Avenue/75th Avenue         IV         4.8         -         -           Litchfield Road         IV         3.0         -         -           Greenfield Road         IV         5.3         -         -           Regional Passenger Support Services         78.5         4.2         16.2         25.6         3		III	2.0		-		-	0.4	
Dunlap/Olive Avenue         III         5.5         -         -         1.2           99th Avenue         III         1.8         -         0.4         -         0.4           83rd Avenue/75th Avenue         IV         4.8         -         -         -         -           Litchfield Road         IV         3.0         -         -         -         -           Greenfield Road         IV         5.3         -         -         -         -           Regional Passenger Support Services         78.5         4.2         16.2         25.6         3		III			-		-	2.0	
99th Avenue         III         1.8         -         -         0.4           83rd Avenue/75th Avenue         IV         4.8         -         -         -           Litchfield Road         IV         3.0         -         -         -           Greenfield Road         IV         5.3         -         -         -           Regional Passenger Support Services         78.5         4.2         16.2         25.6         3					-		-		
83rd Avenue/75th Avenue       IV       4.8       -       -       -         Litchfield Road       IV       3.0       -       -       -         Greenfield Road       IV       5.3       -       -       -         Regional Passenger Support Services       78.5       4.2       16.2       25.6       3	•				-		-		
Litchfield Road         IV         3.0         -         -         -           Greenfield Road         IV         5.3         -         -         -           Regional Passenger Support Services         78.5         4.2         16.2         25.6         3					-		-		
Greenfield Road         IV         5.3         -					-		-	-	
Regional Passenger Support Services         78.5         4.2         16.2         25.6         3					-		-	-	
Subtotal \$ 776.8 \$ 42.4 \$ 160.2 \$ 253.7 \$ 32	Greenfield Road	IV							
		ĨV			4.2		16.2	25.6	3
	Regional Passenger Support Services	ĨV	78.5	\$		\$		\$	\$

Source: Valley Metro / Regional Public Transportation Authority; Maricopa Association of Governments, 2003

\* Runs through calendar year 2025. Cost estimates listed above are preliminary and subject to change.

Table 8: Light Rail Transit Phasing and Costs* (2002 Dollars,	Millions)
---	-----------

Facility	Segment	Length	Regiona	Phase	
		(miles)	Route	Support	
			Construction	Infrastructure	
Minimum Operating Segment	19th Ave/Bethany Home to Apache/Longmore	20	\$ 0.0	\$ 164.0	I
Metro Center Link	19th Ave/Bethany Home to Metrocenter	5	150.0	30.0	I.
Glendale Link	19th Ave/Bethany Home to Downtown Glendale	5	150.0	30.0	111
I-10 West Link	Washington/Central to I-10/79th Ave	11	660.0	0.0	111
Northeast Phoenix Link	Indian School/Central to Paradise Valley Mall	12	720.0	0.0	IV
Tempe South Link	Main/Rural to Rural/Southern	2	120.0	0.0	II
East Mesa Link**	Main/Longmore to Main/Mesa Drive	2.7	150.0	0.0	II
Systemwide		na	0.0	154.0	
Totals		57.7	\$1,950.0	\$ 378.0	

Source: Valley Metro/Regional Public Transportation Authority; Maricopa Association of Governments, 2003

 $^{\ast}$  Cost estimates listed above are preliminary and subject to change in the design process.

\*\* Technology to be determined.

 Table 9

 Schedule of Bus-Related Capital Investments and Operating Costs\* (2002 Dollars)

Cost Item Unit Type		Units Spares			Cost/Unit	Total Cost	
Capital Investments							
Fleet							
Fixed Route Networks Rural Routes Paratransit Van Pool <b>Sub-total Fleet</b>	Bus Rural Bus DAR Van Vanpool Van	1,773 30 830 <u>1,350</u> <b>3,983</b>	365 6 170 <u>54</u> <b>595</b>	\$	400,000 60,000 72,000 30,000	\$ 855,000,000 2,160,000 72,000,000 42,120,000 \$ 971,280,000	
Capital Facilities							
<ul> <li>13 Park &amp; Ride Lots</li> <li>6 Transit Centers, 4 Bay</li> <li>4 Transit Centers, 6 Bay</li> <li>3 Transit Centers, Major Activity Centers</li> <li>5 Bus Maintenance Facilities</li> <li>2 DAR &amp; Rural Bus Maintenance</li> <li>1 Vanpool Maintenance</li> <li>Dedicated BRT ROW &amp; Maint</li> <li>Arterial BRT ROW Improvements</li> <li>Bus Stop Pullouts/Improvements</li> <li>ITS/VMS</li> <li>Sub-total Capital Facilities</li> </ul>	Per Parking Space Facilities Facilities Facilities Vehicle Vehicle Vehicle Per Mile Per Mile Avg per Location Per Vehicle	3,500 6 4 3 1,425 518 778 10 50 1,200 <u>2,154</u> <b>6,135</b>		\$	$\begin{array}{c} 14,000\\ 1,600,000\\ 2,300,000\\ 5,500,000\\ 118,000\\ 32,000\\ 6,000\\ 7,600,000\\ 330,000\\ 22,000\\ 11,000\end{array}$	<ul> <li>\$ 49,000,000</li> <li>9,600,000</li> <li>9,200,000</li> <li>16,500,000</li> <li>168,150,000</li> <li>16,576,000</li> <li>4,668,000</li> <li>76,000,000</li> <li>16,500,000</li> <li>26,400,000</li> <li>23,688,500</li> <li>\$ 416,282,500</li> </ul>	
Contingency						<u>\$ 66,137,500</u>	
Total Fleet and Capital Facilities						\$1,453,700,000	
			26.6% 73.4%	F	RARF: FEDERAL:	387,400,000 1,066,300,000	
Allocation by Type of Service							
Component		Sales Tax			Federal	Total	Percen
Bus Capital Facilities Paratransit Vanpool Rural <b>Total Capital</b>		\$ 238,711,41 116,223,83 20,102,01 11,759,67 603,06 \$ 387,400,00	9 3 8 0		657,041,755 319,900,566 55,329,832 32,367,952 1,659,895 066,300,000	\$ 895,753,164 436,124,405 75,431,845 44,127,630 2,262,955 <b>\$1,453,700,000</b>	61.6% 30.0% 5.2% 3.0% 0.2% 100.0%
Other Operating Funds					Sales Tax	Total	
Paratransit Rural/Non-Fixed Routes				\$	199,000,000 12,000,000	\$ 199,000,000 12,000,000	

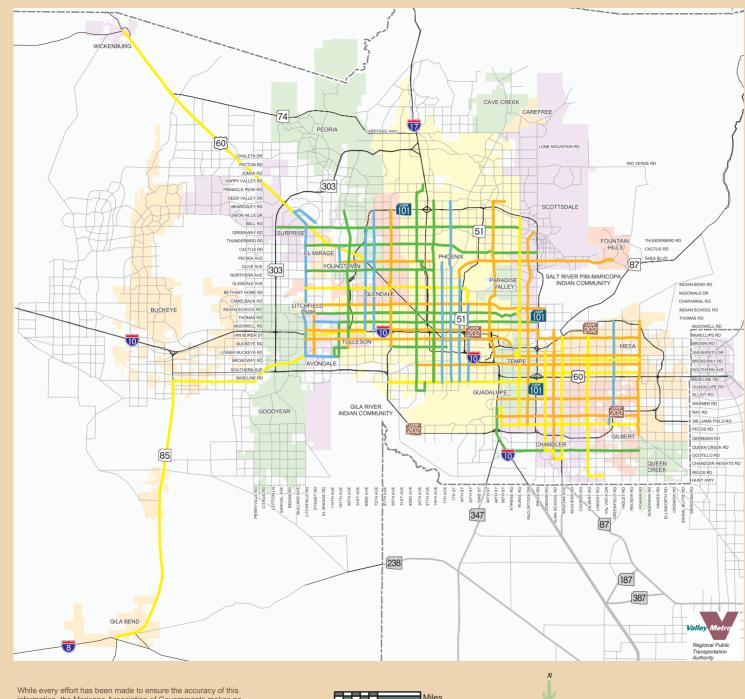
\$ 211,000,000

\$ 211,000,000

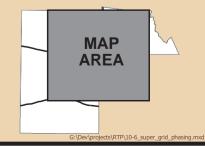
Source: Valley Metro / Regional Public Transportation Authority; Maricopa Association of Governments, 2003

 $^{\ast}$  Cost estimates listed above are preliminary and subject to change in the design process.

**Total Other Operating Funds** 



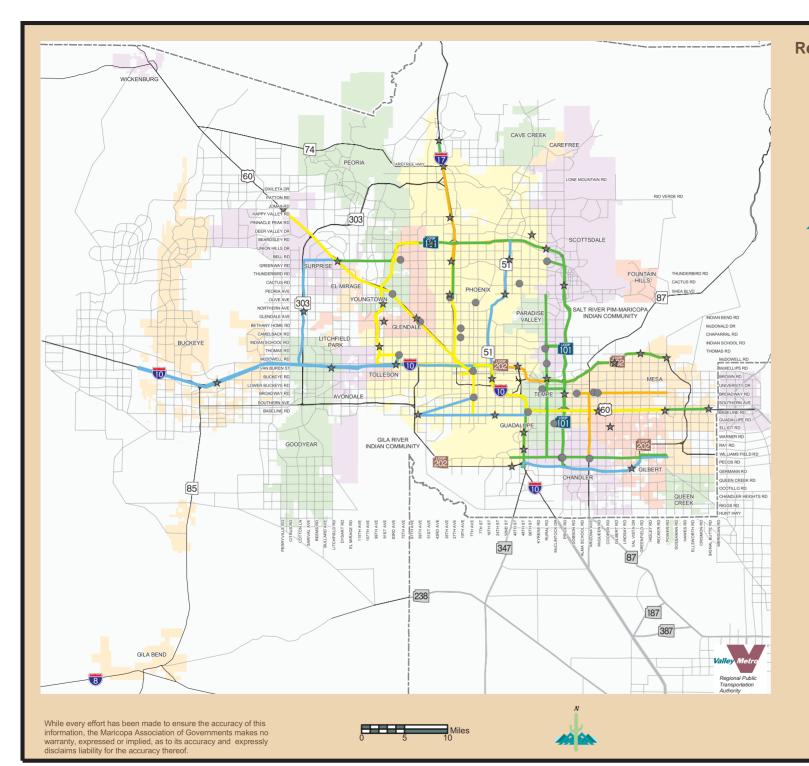
**Regional Transportation Plan Executive Summary** Figure 8 REGIONAL TRANSPORTATION PLAN MARICOPA ASSOCIATION of GOVERNMENTS **Super Grid** and Rural Service **Plan Phasing** Phase 1 (FY 2005 - FY 2010) Phase 2 (FY 2011 - FY 2015) Phase 3 (FY 2016 - FY 2020) Phase 4 (FY 2021 - FY 2026) --- County Boundary Freeways/Highways Other Roads Regional transportation facilities in Pinal County are planned by the Central Arizona Association of Governments (CAAG). Potential new facilities shown in Pinal County are from the Southeast Maricopa/Northern Pinal County Area Transporation Study jointly sponsored by MAG, CAAG, and ADOT.



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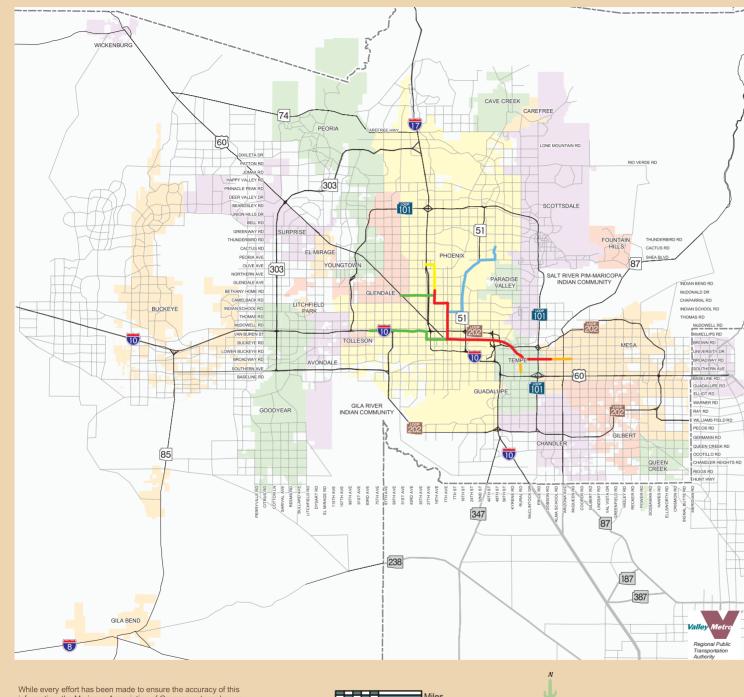




Other Roads

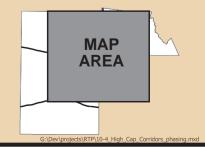
Regional transportation facilities in Pinal County are planned by the Central Arizona Association of Governments (CAAG). Potential new facilities shown in Pinal County are from the Southeast Maricopa/Northern Pinal County Area Transporation Study jointly sponsored by MAG, CAAG, and ADOT.







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### OTHER TRANSPORTATION MODES AND PROGRAMS

The RTP includes a full range of transportation modes and transportation functions. In addition to roadways and transit, the Plan covers needs that address airport facilities, freight, bicycle and pedestrian travel, and special transportation functions. Operational aspects of the transportation system are also addressed in the areas of demand management, system management and safety.

#### <u>Airports</u>

At present, MAG is the officially designated agency for regional aviation system planning. The first MAG Regional Aviation System Plan (RASP) was developed in 1979, with subsequent updates to the plan occurring in 1986 and 1993. In December of 1996, the MAG Regional Council approved a MAG RASP Implementation Study to facilitate with the long-term implementation of the RASP. In 2000, MAG initiated an update of its Regional Aviation System Plan, which is expected to be completed by the end of 2003.

#### **Bicycles**

For many years, MAG has maintained an active role in promoting the establishment of improved travel opportunities for bicyclists. In 1991, MAG developed a plan to address the needs and concerns of bicyclists in the region, and to encourage bicycling as a way to alleviate congestion and air pollution. The MAG Regional Bicycle Plan was adopted by the Regional Council in February of 1992, and was incorporated into the region's ongoing long range transportation planning process, which is updated on an annual basis.

The MAG Regional Bicycle Task Force, which was responsible for assisting in the development of the original MAG Bicycle Plan in 1992, has maintained an active role in promoting improved travel opportunities for bicyclists. The MAG Regional Bicycle Task Force continues to provide key input into bicycle planning and decisionmaking activities, and is comprised of representatives from MAG member agencies, ADOT and RPTA.

All current regional bicycle planning within the MAG Region adheres to, and is implemented

through, the policies and recommendations of three existing plans. These plans include the MAG Regional Bicycle Plan, the Regional Off-Street System (ROSS) Plan, and the West Valley Multi-Modal Transportation Corridor Plan.

#### **Pedestrians**

MAG is a leader in promoting improvements in the Valley's streetside environments to better accommodate pedestrian travel. Past pedestrian planning efforts conducted by MAG and its member agencies have led to a variety of pedestrian-oriented policies, programs and roadway improvements. In 1993, MAG developed a plan which identified policies to encourage walking, and suggested areas where these policies might best be implemented. In 1994, MAG formed the Pedestrian Working Group to promote increased awareness of walking as an alternative mode of travel and to improve facilities for people who walk.

The MAG Pedestrian Working Group developed a set of Pedestrian Area Policies and Design Guidelines, which was a comprehensive manual of pedestrian policies and facility design that creates a regional standard that can be used by community groups, planners and design professionals. This effort resulted in the MAG Pedestrian Design Assistance Program, which was initiated in 1996 to encourage the development of designs for pedestrian facilities according to the MAG Pedestrian Area Policies and Design Guidelines. MAG also developed a Regional Pedestrian Plan in 2000, which identified and recommended programs and actions to guide and encourage the development of pedestrian areas and facilities and ultimately increase walking as a viable mode of transportation throughout the region.

#### Freight

At present, MAG is in the process of finalizing a Regional Freight Assessment, which is intended to serve as a comprehensive base for the analysis of current and future needs for regional freight infrastructure improvements, activities, and future planning endeavors related to freight and the goods movement process. The Regional Freight Assessment is the latest in a series of MAG activities in the freight planning process. Past activities have included: 1) developing an Intermodal Management Systems report, which is considered in the preparation of the Transportation Improvement Program; 2) conducting freight forums, which provided goods movement providers and users an opportunity to give input on transportation needs and investments; and 3) considering freight movement factors as a part of modal plan development, which has been specifically addressed in the airport planning process.

Future steps in freight planning include: 1) continuing to monitor the impact and role of freight in the regional transportation system; 2) projecting future overall goods movement demand within, into and out of the region; 3) expanding the freight element of the regional transportation network modeling process; 4) enhancing coordination and involvement of the "freight community" in the regional transportation planning process; and 5) investigating the potential for developing a separate regional freight plan, including the organization and structure of freight planning and infrastructure needs to facilitate freight movement across the region.

#### Demand Management

Transportation Demand Management (TDM) programs encourage reductions in travel demand within the transportation system. These programs promote alternative modes of travel, such as carpooling, vanpooling, walking, bicycling, alternative work schedules that reduce trips, and telecommuting and compressed work schedules. TDM activities utilized throughout the region include rideshare programs, the clean air campaign, trip reduction and vanpool programs, telecommuting, and audioconferencing and videoconferencing efforts.

#### System Management

Transportation System Management (TSM) programs help to accommodate the safe and efficient movement of people and vehicles within the transportation system. The full spectrum of transportation technology applications, known as Intelligent Transportation Systems (ITS), now form the basis for all of these programs.

ITS involves the integrated application of advanced sensors, computers, electronics and communication technologies, along with management strategies, to increase the safety and efficiency of the surface transportation system.

Since 1996, MAG has taken progressive steps toward mainstreaming the development of regional ITS within the transportation planning process. All planning activities for public sector ITS infrastructure in the region are currently coordinated and led by MAG. In September of 1999, MAG launched a project to develop a comprehensive ITS Strategic Plan. Oversight for this project was provided by a group consisting of the MAG ITS Committee and other stakeholders. The Plan was adopted by MAG in April of 2001 and currently serves as the road map for future ITS within the region.

#### Special Needs Transportation

The RTP addresses the special transportation needs of certain user groups. The transportation needs of special populations are a regional concern. Limitations caused by age or disability complicate the process of securing transportation for a portion of the population. In addition, those who are seeking employment or training and those who lack financial resources find limited transportation options available to reach second shift and weekend employment. The RTP specifically addresses concepts and issues related to changes in assistance, a number of transportation programs, and concerns for senior travelers.

#### <u>Safety</u>

The RTP addresses road safety issues throughout the region. Safety continues to be highlighted as a key planning emphasis area, and improving levels of safety across the regional transportation system is an essential planning goal. A Regional Transportation Safety Action Plan has been developed by the MAG Safety Stakeholders Group as an immediate planning measure to address road safety in the region. Funding for a comprehensive Regional Transportation Safety Plan with goals linked to both national and state safety plans has been included in the RTP.

# AIR QUALITY CONFORMITY

The Maricopa Association of Governments (MAG) is the designated Metropolitan Planning Organization (MPO) in Maricopa County, Arizona, and is responsible for both air quality and transportation planning. As required by the Clean Air Act. an air quality conformity analysis was conducted on the RTP and the Transportation Improvement Program (TIP) as a whole. The conformity analysis demonstrates that the TIP and RTP are in conformance with regional air guality plans and will not contribute to air quality violations. In its entirety, the conformity analysis demonstrates that the criteria specified in the federal transportation conformity rule for a conformity determination are satisfied by the TIP and RTP. A finding of conformity for the FY 2004-2007 MAG TIP and MAG RTP is therefore supported.

#### **Conformity Requirements**

The federal transportation conformity rule (40 Code of Federal Regulations (CFR) Parts 51 and 93) specifies criteria and procedures for conformity determinations for transportation plans, programs, and projects and their respective amendments. The conformity test specified in the federal transportation conformity rule and applied in the 2003 MAG Conformity Analysis is the emissions budget test. For the emissions budget test, predicted emissions for the TIP and RTP must be less than or equal to the motor vehicle emissions budget specified in the approved air quality implementation plan, or the emissions budget found to be adequate for transportation conformity purposes.

For the 2003 MAG Conformity Analysis, the emissions budget test was applied for CO, since the CO emissions budget was found to be adequate for transportation conformity purposes by EPA, effective October 14, 2003. For ozone, an emissions budget test was performed for volatile organic compounds (VOC), because an approved State Implementation Plan budget for VOC is contained in the Revised 1998 15 Percent Rate of Progress Federal Implementation Plan for Ozone. For PM-10, the emissions budget test was applied using the approved budget from the Revised MAG 1999 Serious Area Plan for PM-10.

#### **Results of the Conformity Analysis**

A regional emissions analysis was conducted for the years 2006, 2015, 2016, and 2026 for each pollutant. All analyses were conducted using the latest planning assumptions and emissions models. The major conclusions of the 2003 MAG Conformity Analysis are:

- For carbon monoxide, the total regional vehicle-related emissions associated with implementation of the TIP and RTP for the analysis year 2006 is projected to be less than the adequate interim emissions budget, and the emissions associated with implementation of the TIP and RTP for the analysis years 2015, 2016, and 2026 are projected to be less than the adequate maintenance budget for 2015 established in the Carbon Monoxide Redesignation Request and Maintenance Plan. The applicable conformity test for carbon monoxide is therefore satisfied.
- For volatile organic compounds, the total regional vehicle-related emissions associated with implementation of the TIP and RTP for all years tested are projected to be less than the emissions budget specified in the applicable Revised 1998 15 Percent Rate of Progress Federal Implementation Plan for Ozone. The conformity test for ozone is therefore satisfied.
- For PM-10, the total regional vehicle-related emissions associated with implementation of the TIP and RTP for all years tested are projected to be less than the emissions budget found to be adequate for transportation conformity purposes from the Revised MAG 1999 Serious Area Particulate Plan for PM-10. The conformity test for PM-10 is therefore satisfied.
- Implementation of the TIP and RTP will support and not impede the implementation of the Transportation Control Measures that have been adopted as part of applicable air quality implementation plans.
- Consultation has been conducted in accordance with federal requirements.

### PLAN IMPLEMENTATION POLICIES

(This section will be revised as appropriate upon future discussion by the MAG Transportation Policy Committee)

In addition to the transportation facilities and services aspects of the RTP, the Transportation Policy Committee (TPC) also addressed plan implementation policy issues. These policies will play a vital part in how the RTP is managed and updated over the coming years. The policy concepts listed below were adopted by the TPC on September 17, 2003, as part of their action to recommend the RTP for air quality conformity analysis of this Plan. (Items on additional arterial projects and noise mitigation included in that action are not listed, since they have been specifically included in Chapters 8 and 9).

- That funding firewalls be established for the following modes of transportation: freeways, streets and transit, with the understanding that these firewalls represent the percentage of funding identified in the plan and that the funds from the sales tax be deposited in their respective accounts (Regional Area Road Fund for freeways, a sub-account of the RARF for streets and the Public Transportation Fund for transit). Increases or decreases in sales tax revenue would be reflected proportionately in the respective accounts.
- That the Arizona Department of Transportation develop a Life Cycle Certification Program for freeways and streets and the Regional Public Transportation Authority develop a Life Cycle Certification Program for transit to ensure that costs and revenues for the RTP are balanced annually.

- That freeway and street project accelerations be considered, with the existing highway acceleration policy used as a model for consideration.
- That the material cost change and enhancement policies now used for the freeway program be expanded to transportation projects funded by the sales tax as prescribed by state law.
- That every five years, the RTP be re-evaluated to consider major plan adjustments resulting from new information or studies pertaining to the implementation of the Plan.

An additional set of policies submitted by Maricopa County was considered by the TPC at their September 17, 2003 meeting. The TPC adopted the first, second and last bullet-items in that list. These policies, which complement and reinforce the above items, are listed below.

- Require an independent evaluation of the performance of the RTP every five years (Full audit of implemented projects and evaluation of projects within the balance of the plan time frame).
- The TPC must review the independent RTP evaluation and may recommend amendments to the RTP based on the independent evaluation.
- Include the above accountability provisions in the authorizing legislation.