Regional Transportation Plan
MAG Regional Freeway and Highway Program

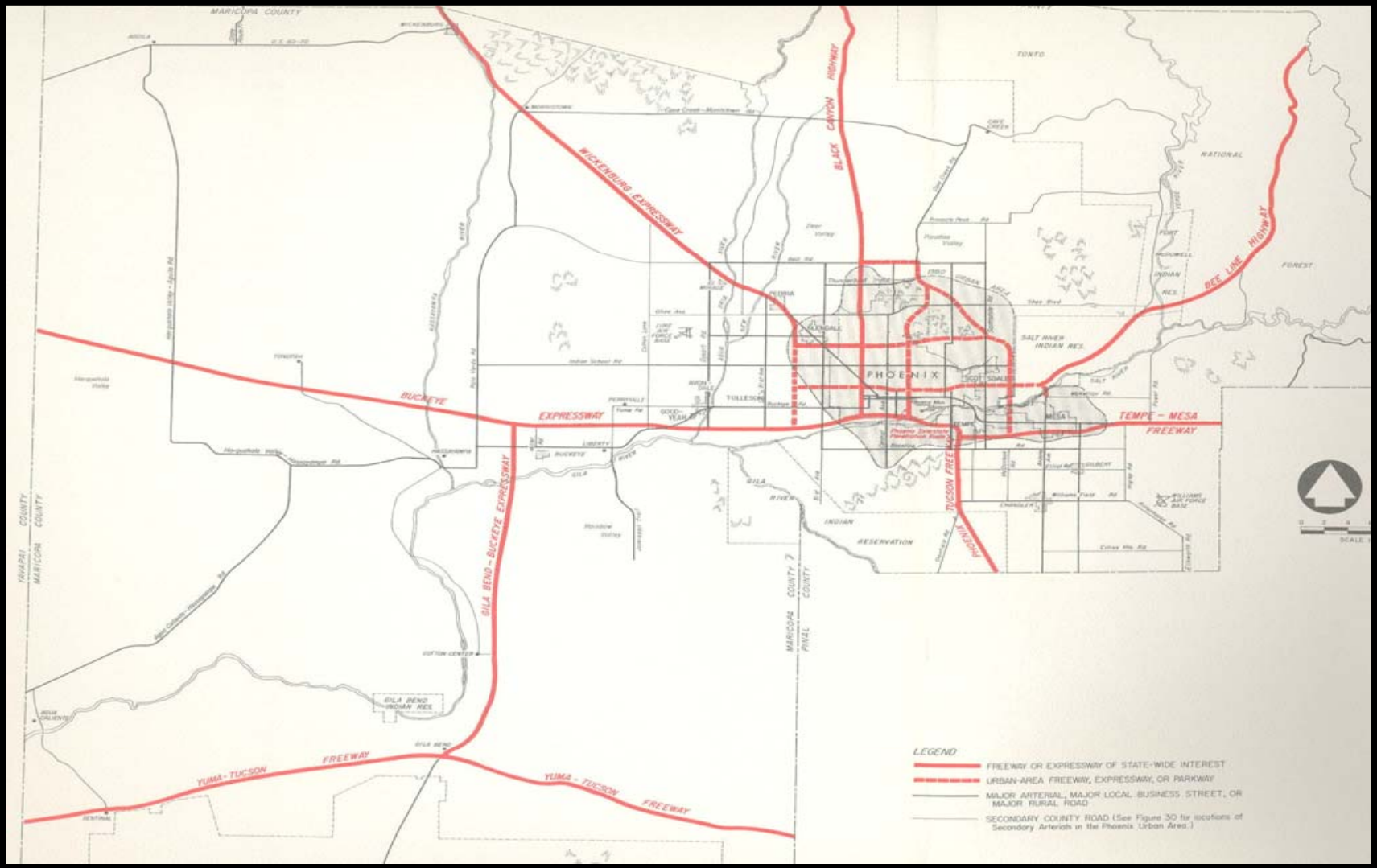
Planning Certification Review
November 3, 2009

MARICOPA ASSOCIATION of GOVERNMENTS

ON THE MOVE

A Major Street and Highway Plan

WILBUR SMITH & ASSOCIATES - 1960



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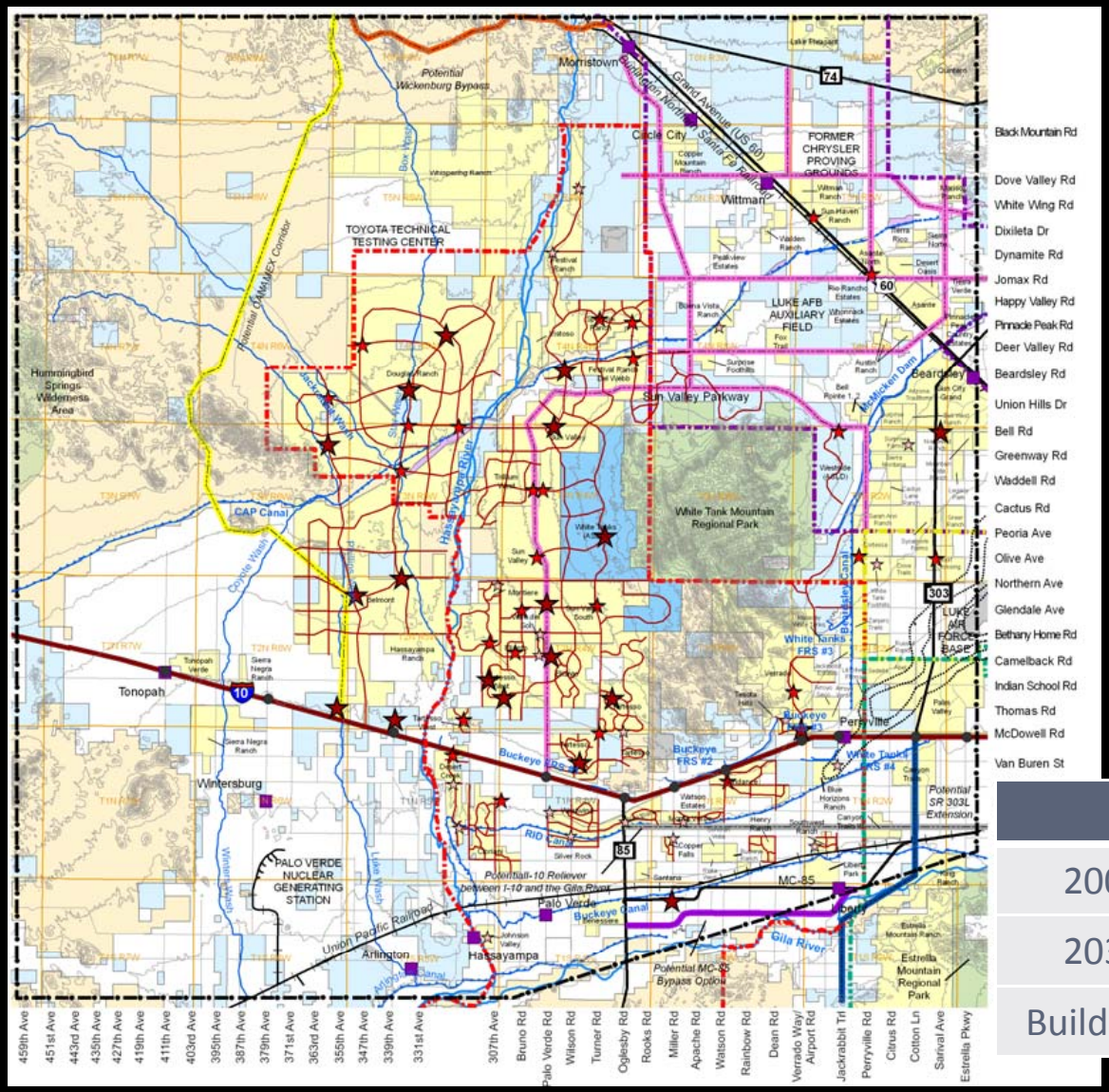

	Population	Employment
2005	138,000	48,000
2030	948,000	379,000
Build-Out	2,862,000	836,000

Interstate 10-Hassayampa Valley

BUILDING A QUALITY ARIZONA

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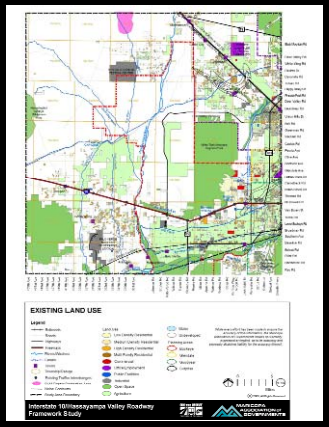
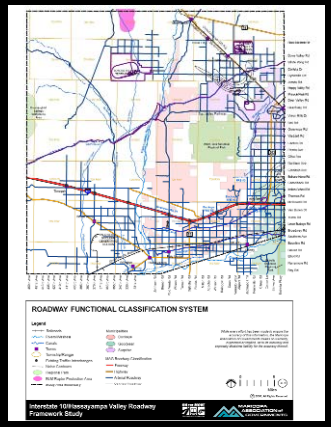
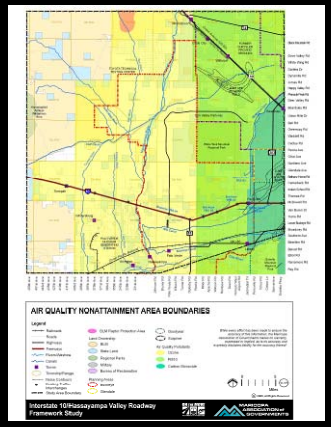
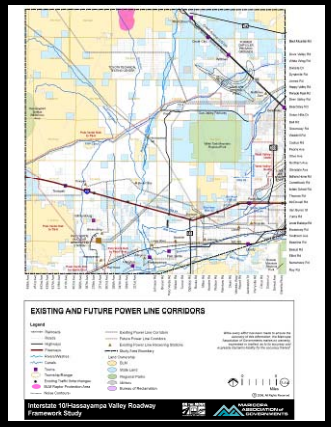
Environmental Scan

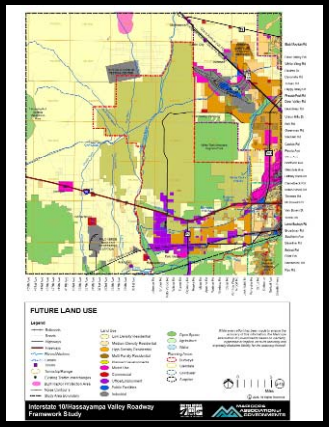
INTERSTATE 10-HASSAYAMPA VALLEY

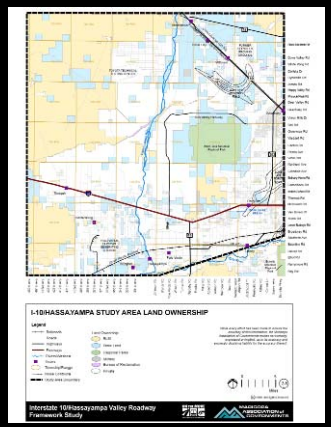


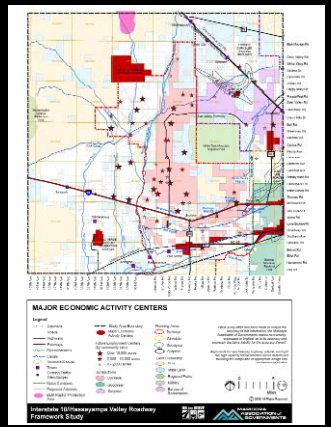


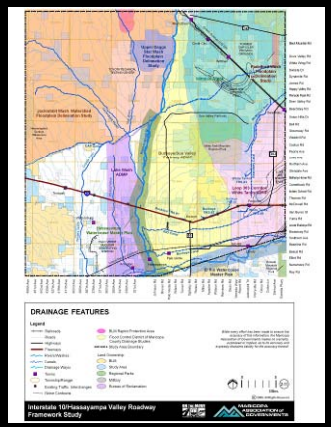


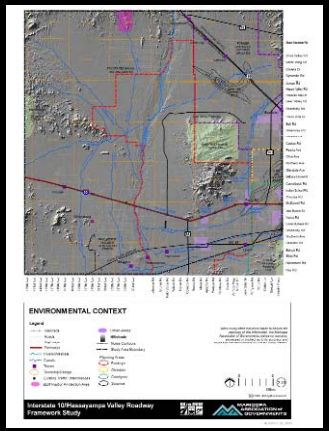


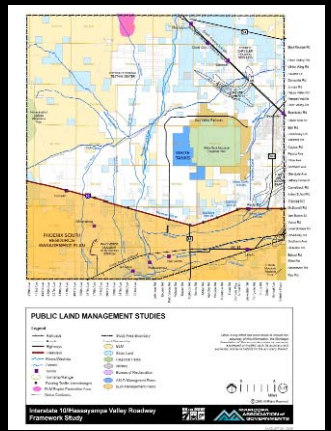


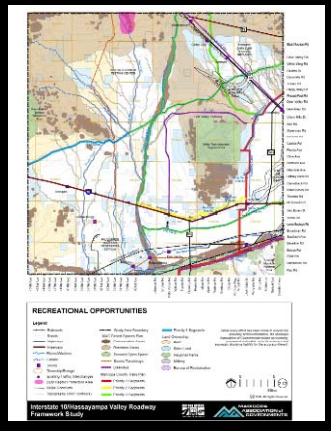


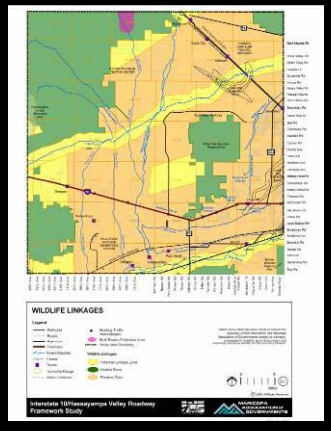












- Existing Land Use
- Future Land Use
- Environmental Context
- Functional Classification
- Land Ownership
- Public Land Management
- Air Quality
- Major Economic Centers
- Utility Corridors
- Drainage
- Wildlife Corridors

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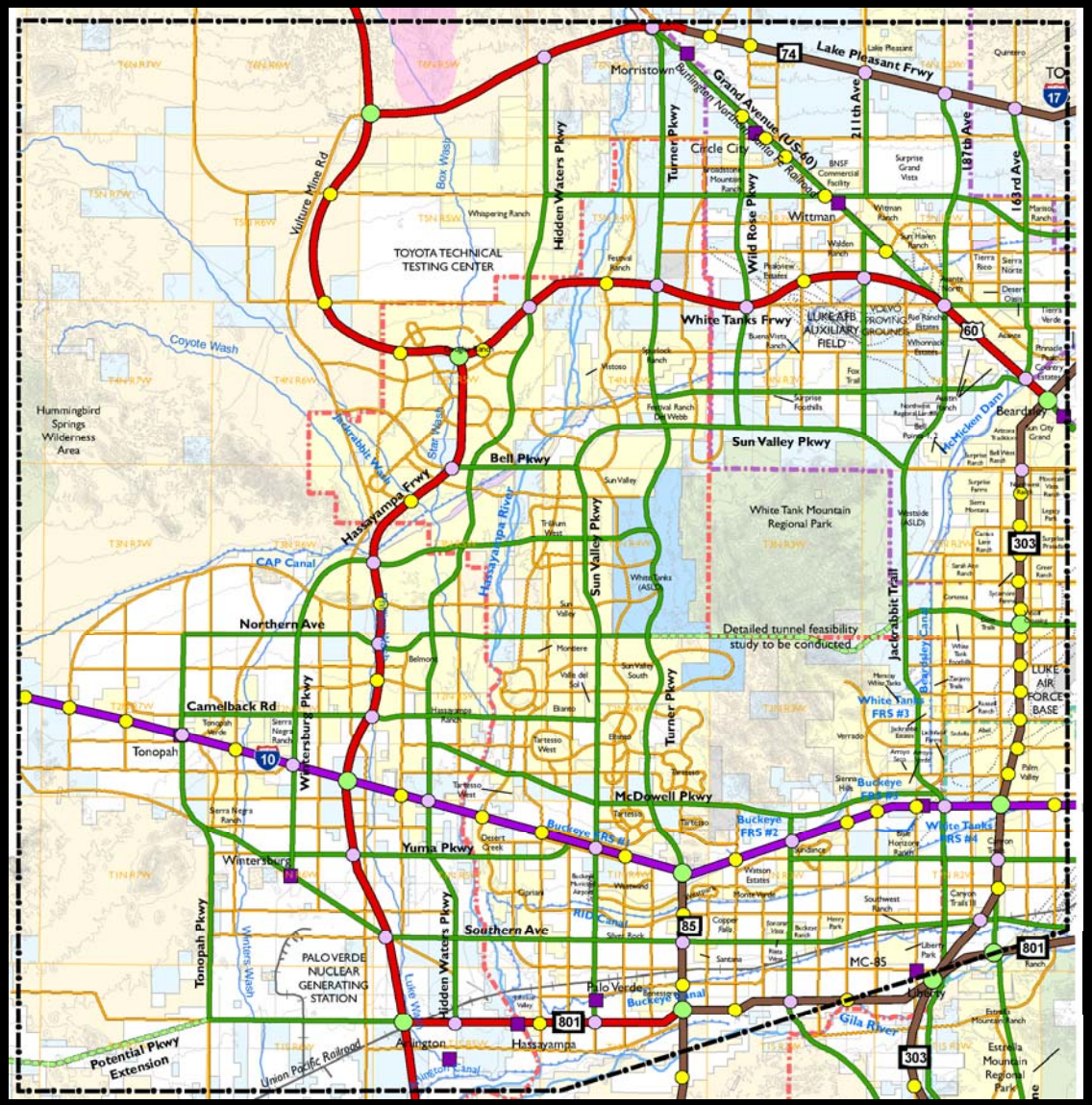
Roadway Framework

INTERSTATE 10-HASSAYAMPA VALLEY



Freeways

- Existing Freeway Improvements
- Future RTP Freeways
- New Freeway Proposals

Parkways

- New Parkway Alternatives
- New Parkway Proposals

Major Arterials

- Future Major Arterial Network

Accepted by the MAG Regional Council on February 27, 2008.

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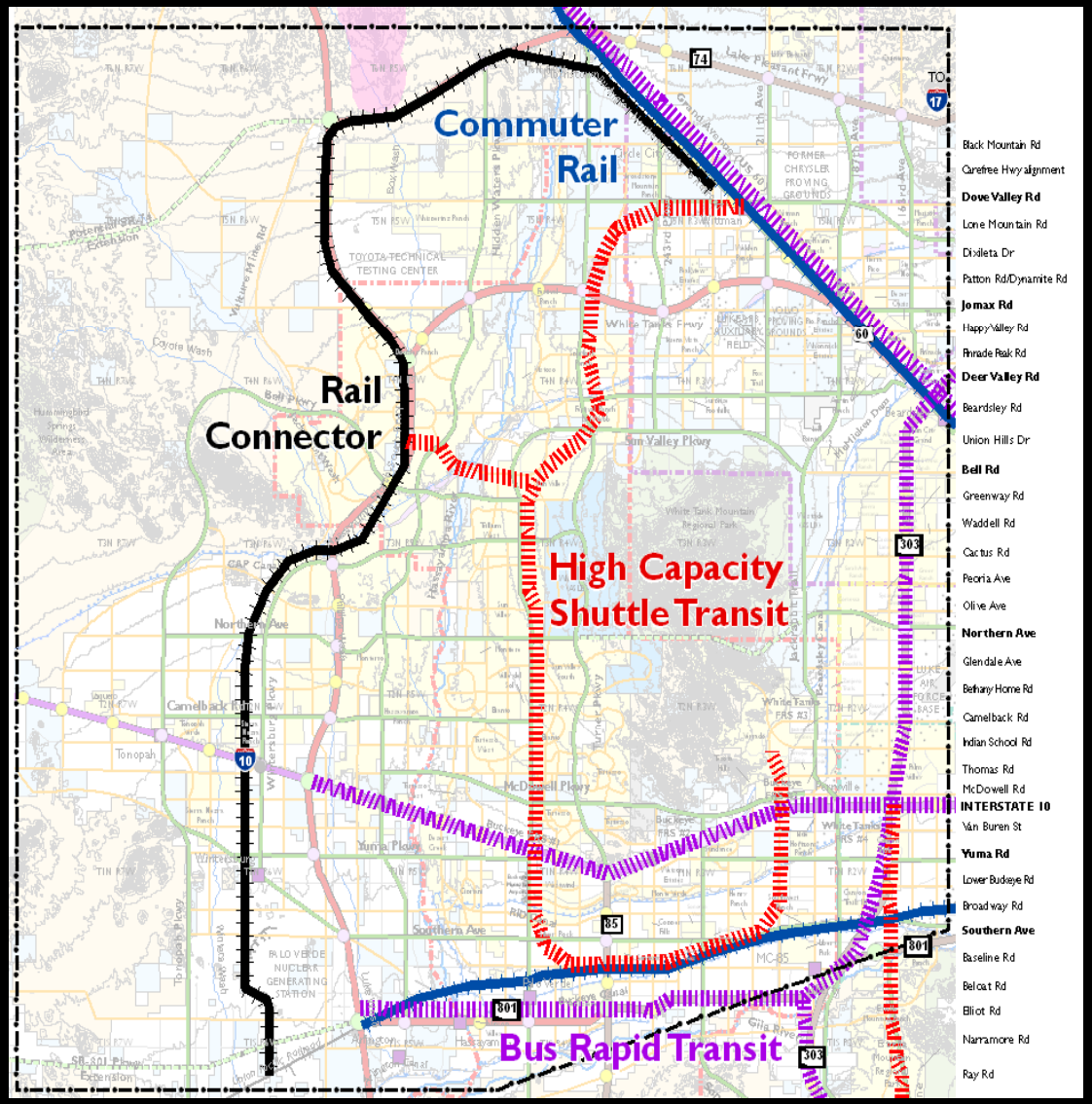
Transit Framework

INTERSTATE 10-HASSAYAMPA VALLEY



Proposal

- Bus Rapid Transit
- High Capacity Shuttle Transit
- Commuter Rail
- Freight and Passenger Rail Connector

Accepted by the MAG Regional Council on February 27, 2008.

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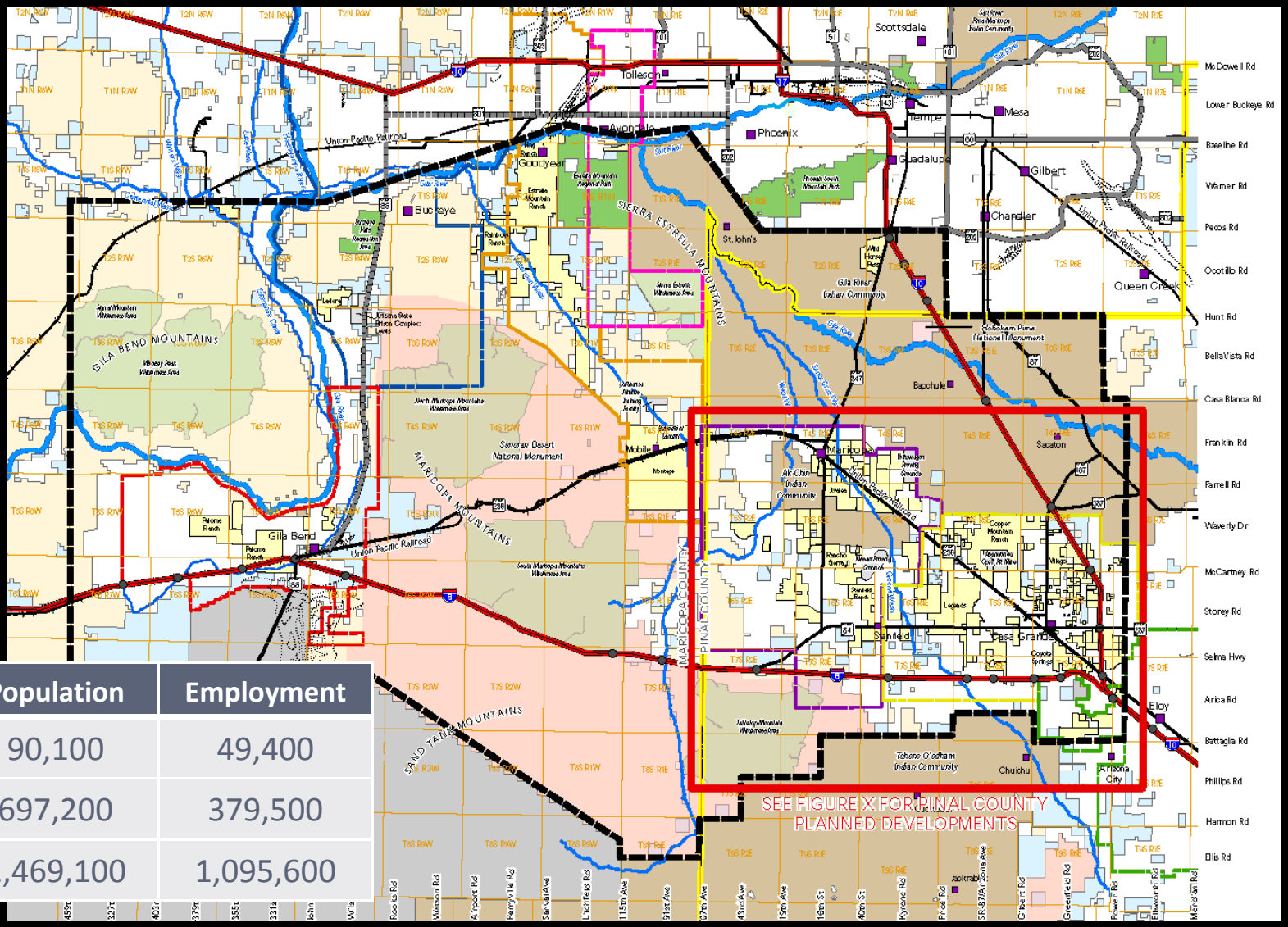

	Population	Employment
2005	90,100	49,400
2030	697,200	379,500
Build-Out	2,469,100	1,095,600

Interstates 8 and 10 – Hidden Valley

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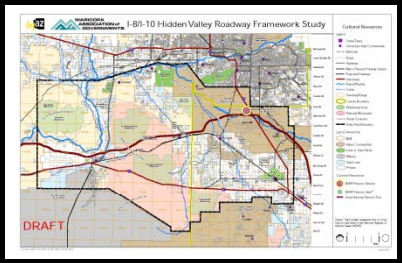

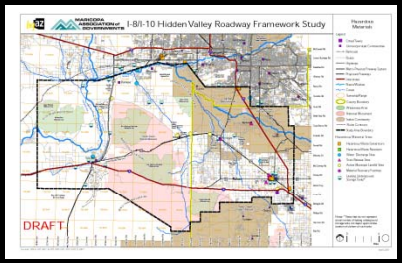

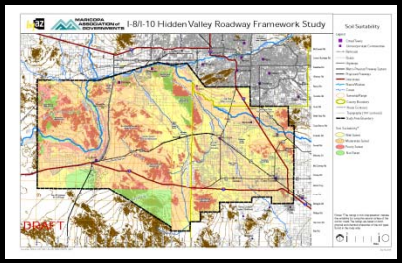

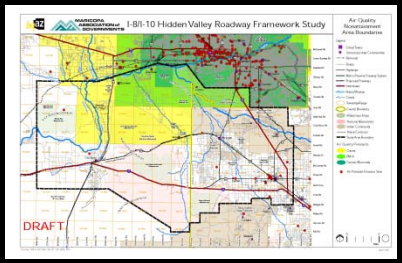

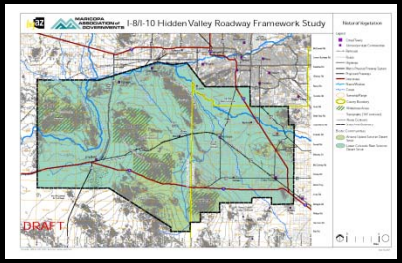

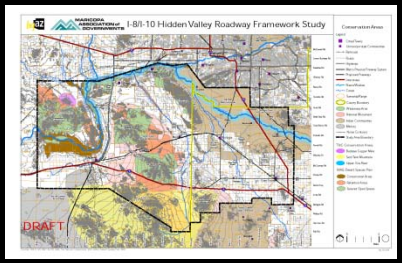

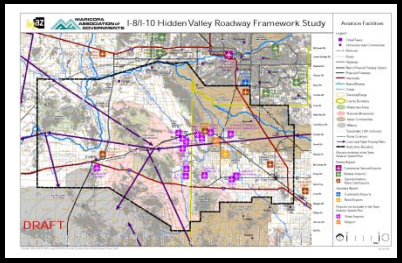

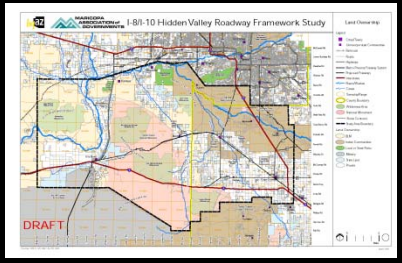

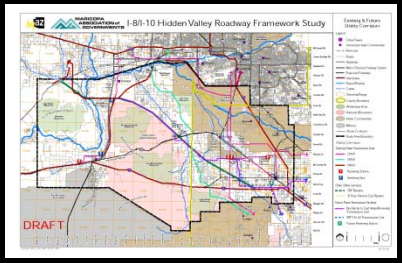

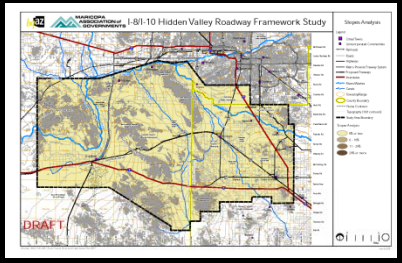

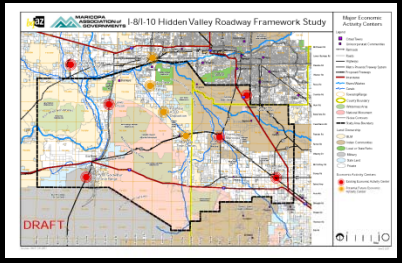

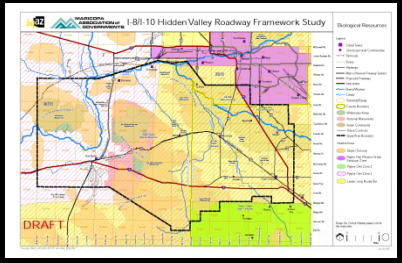

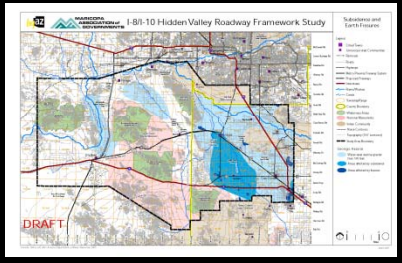

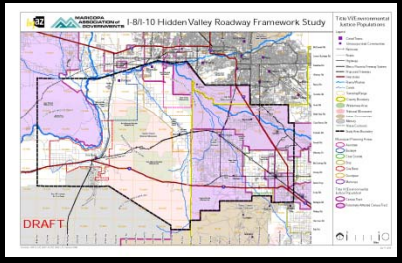

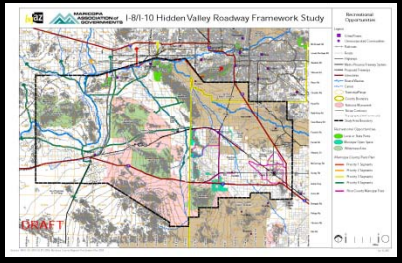

Environmental Scan

INTERSTATES 8 AND 10-HIDDEN VALLEY

- Cultural Resources
- Air Quality
- Aviation
- Slopes Analysis
- Hazardous Materials
- Natural Vegetation
- Land Ownership
- Major Economic Centers
- Title VI/Environ Justice
- Conservation Areas
- Utility Corridors
- Biological Resources
- Recreation Opportunities
- Wildlife Corridors

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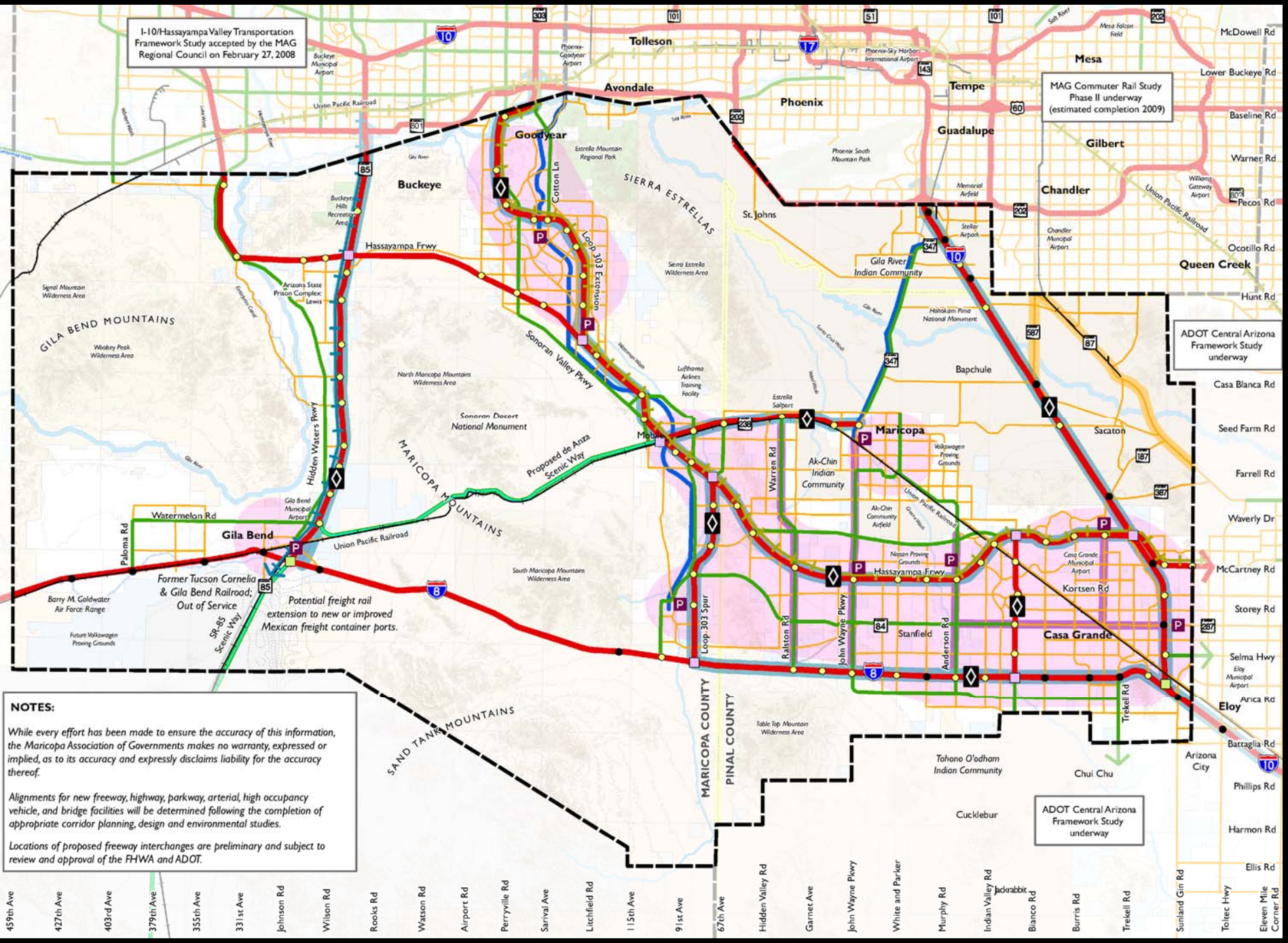

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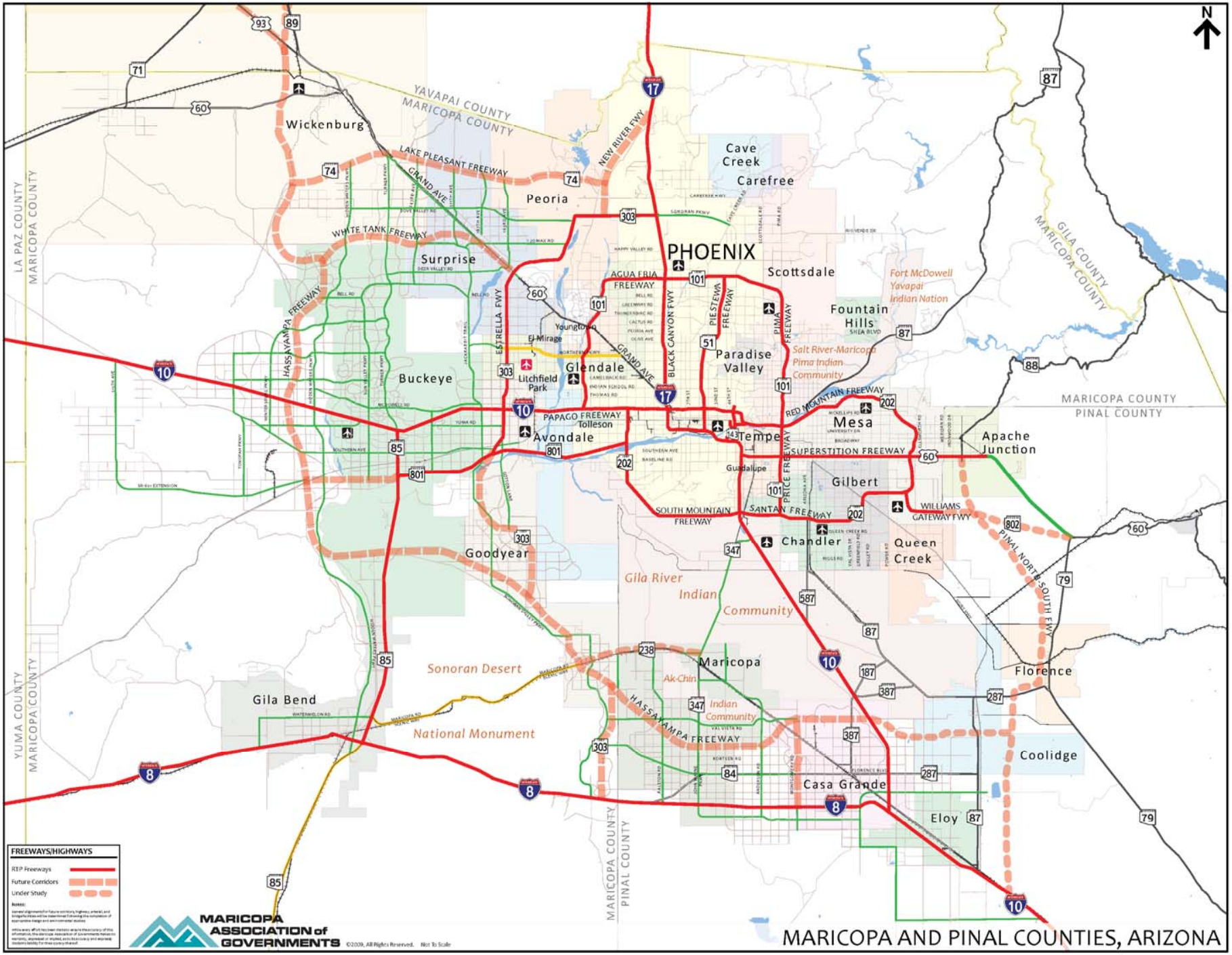
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YAVAPAI COUNTY
MARICOPA COUNTY
LA PAZ COUNTY
MARICOPA COUNTY
YUMA COUNTY
MARICOPA COUNTY
GILA COUNTY
MARICOPA COUNTY
MARICOPA COUNTY
PINAL COUNTY
MARICOPA COUNTY
PINAL COUNTY
Wickenburg
Peoria
Cave Creek
Carefree
PHOENIX
Scottsdale
Surprise
Fort McDowell Yavapai Indian Nation
Fountain Hills
Youngtown
El Mirage
Glendale
Litchfield Park
Buckeye
Paradise Valley
Salt River-Maricopa Pima Indian Community
Tolleson
Avondale
Tempe
Mesa
Apache Junction
Guadalupe
Gilbert
Chandler
Queen Creek
Goodyear
Gila River Indian Community
Maricopa
Ak-Chin Indian Community
Florence
Sonoran Desert National Monument
Gila Bend
Coolidge
Casa Grande
Eloy
LAKE PLEASANT FREEWAY
GRAND AVE
WHITE TANK FREEWAY
NEW RIVER FWY
AGUA FRIA FREEWAY
BLACK CANYON FWY
PIESTEWA FREEWAY
PIMA FREEWAY
ESTRELLA FWY
HASSAYAMPA FREEWAY
PAPAGO FREEWAY
RED MOUNTAIN FREEWAY
SUPERSTITION FREEWAY
PRICE FREEWAY
SOUTH MOUNTAIN FREEWAY
SANTAN FREEWAY
WILLIAMS GATEWAY FWY
PINAL NORTH-SOUTH FWY
FREEWAYS/HIGHWAYS
RTP Freeways
Future Corridors
Under Study
MARICOPA ASSOCIATION of GOVERNMENTS
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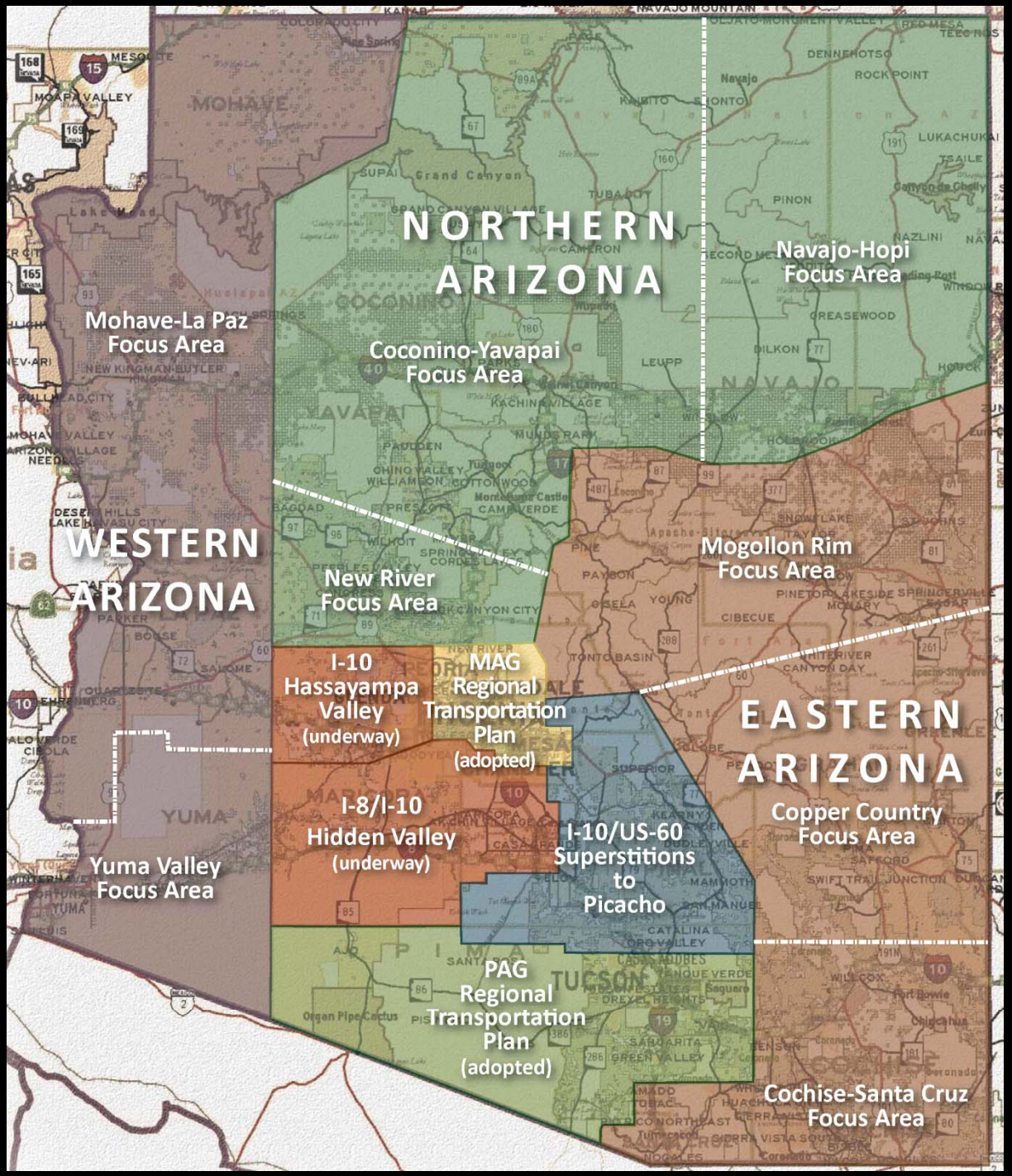
MARICOPA AND PINAL COUNTIES, ARIZONA

Framework Locations

PLANNING THE TRANSPORATION FUTURE FOR ARIZONA



As agreed to by the Arizona COG/MPO Association and the Arizona Department of Transportation
October 4, 2007

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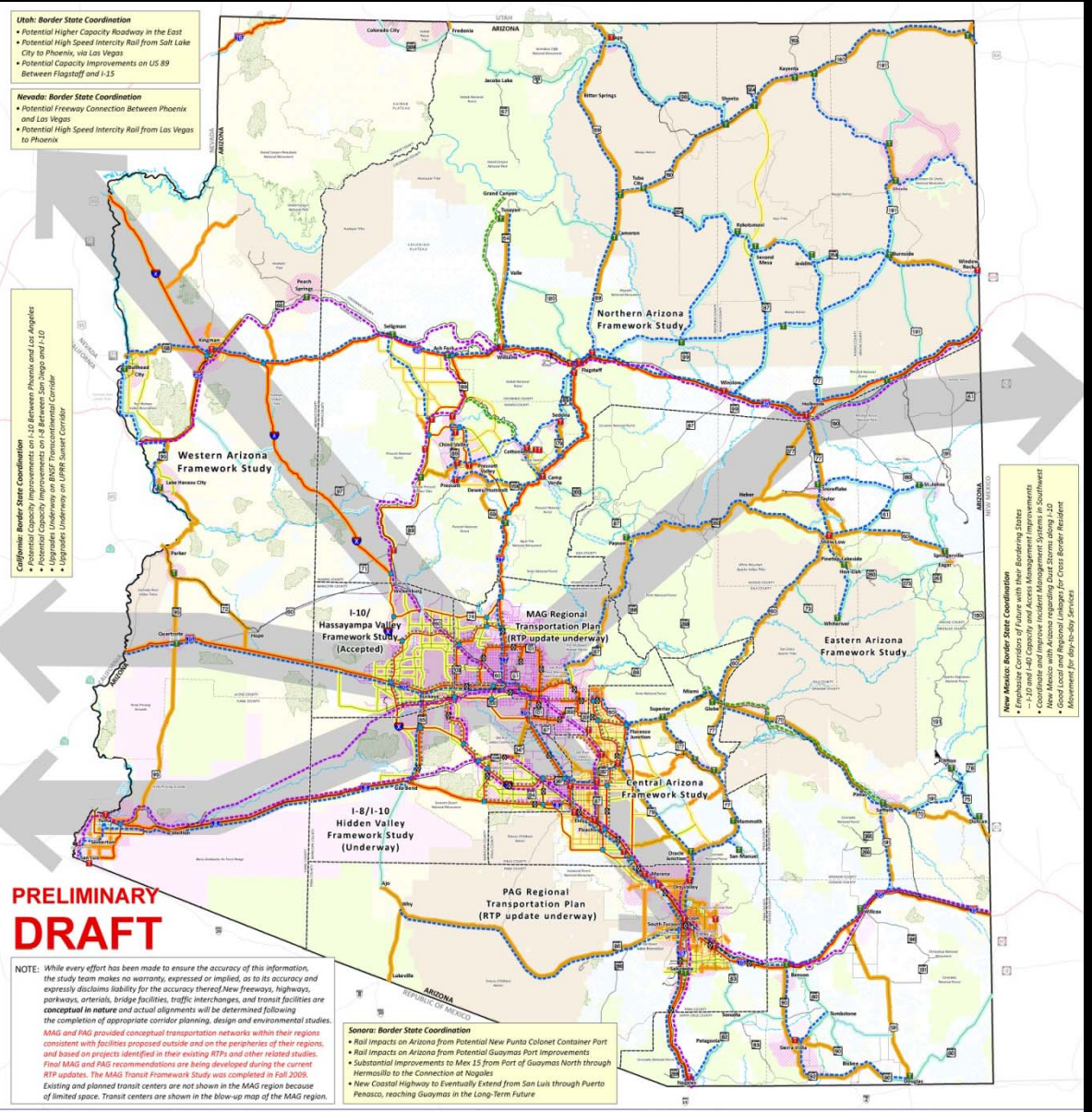
2050 Recommended Statewide Framework Scenario



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Freeway Program Financials

Regional Freeway and Highway Program Prop 400 Budget	**$9,421.2 million**
Current ADOT Cost Opinion for the Regional Freeway and Highway Program	$15,952.4 million
Projects Obligated thru FY2010	$2,716.1 million
ADOT Cost Opinion for completing the Regional Freeway Program	$13,236.3 million
Available Funding for balance of Regional Freeway and Highway Program	**$6,610.0 million**
Program Deficit	**$6,626.3 million**

Looking west at I-10/Maricopa from the 40th St Overcrossing

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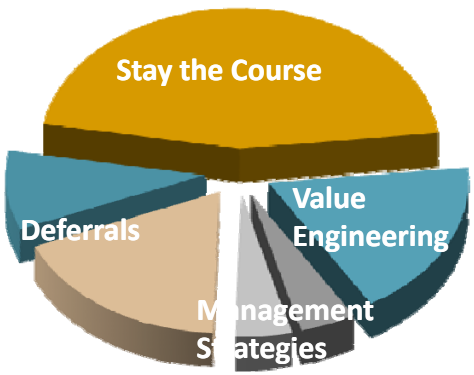
Steps towards a Tentative Scenario



Management Strategies
$762.4 million

- **Management Strategies**
  - Lower Construction Costs
  - Reduce Right-of-Way Contingencies
  - Maintain System-wide Costs

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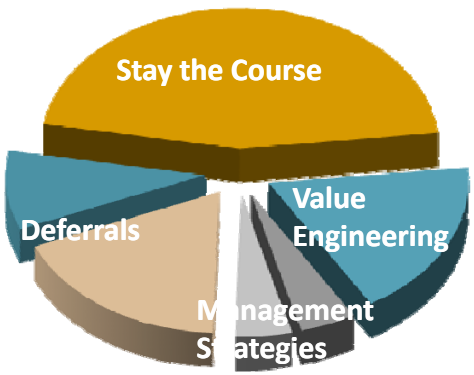
Steps towards a Tentative Scenario



Management Strategies
$762.4 million

- **Management Strategies**
  - Lower Construction Costs
  - Reduce Right-of-Way Contingencies
  - Maintain System-wide Costs
- **Value Engineering**
  - Loop 303
  - Loop 202/South Mountain
- **Deferrals**
  - Corridors
  - General Purpose Lane and DHOV
  - Right-of-Way (ROW)
  - Traffic Interchanges

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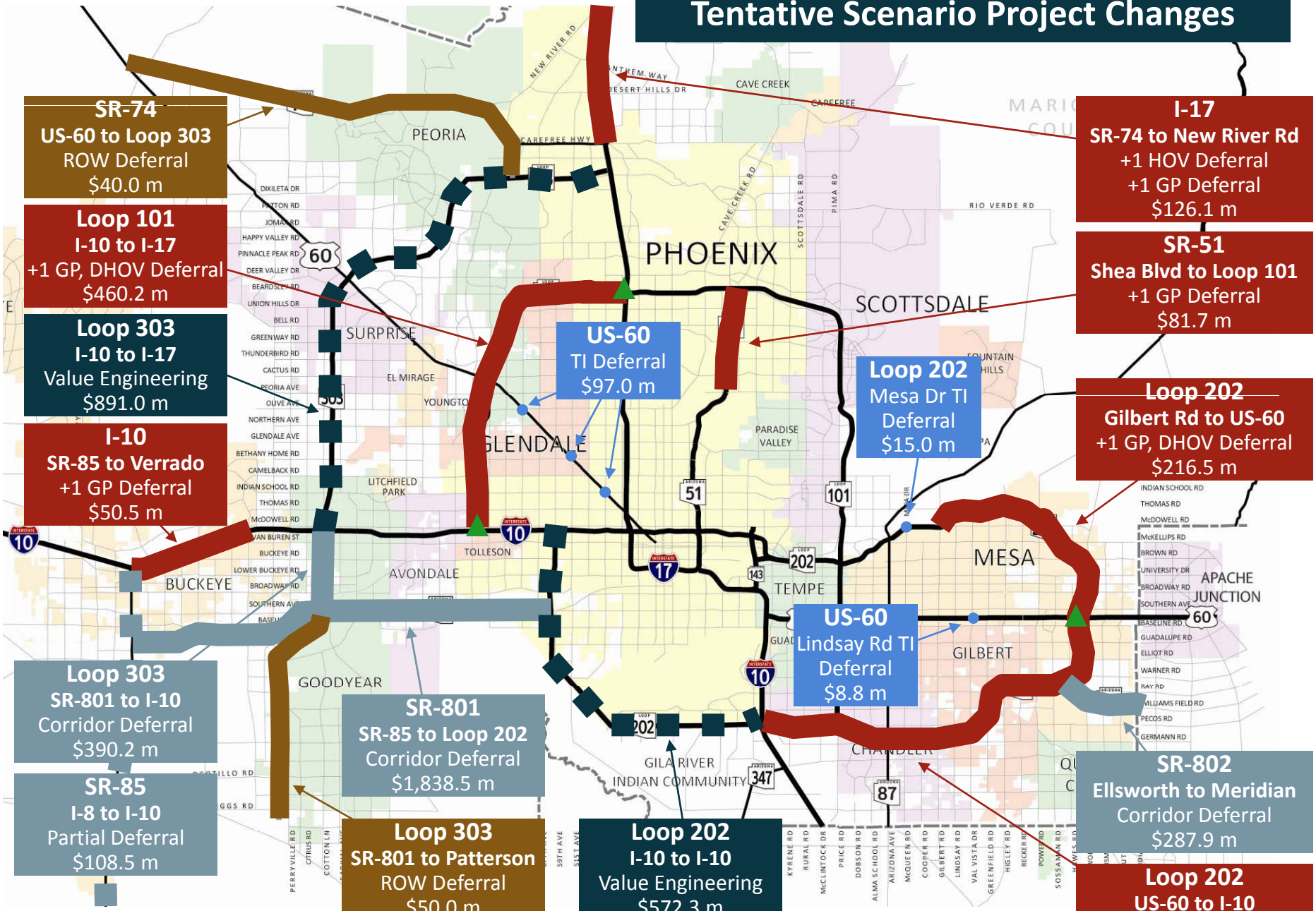
Tentative Scenario Project Changes



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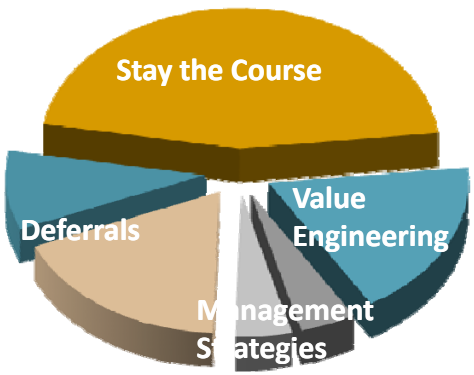
Steps towards a Tentative Scenario



Management Strategies
$762.4 million

Value Engineering
$1,703.3 million

- **Management Strategies**
  - Lower Construction Costs
  - Reduce Right-of-Way Contingencies
  - Maintain System-wide Costs
- **Value Engineering**
  - Loop 303
  - Loop 202/South Mountain

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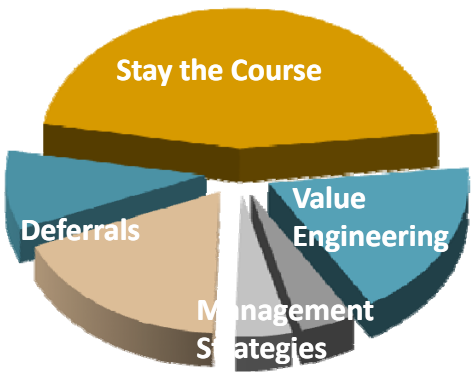
Steps towards a Tentative Scenario



Management Strategies
$762.4 million

Value Engineering
$1,703.3 million

Deferrals
$4,125.2 million

- **Management Strategies**
  - Lower Construction Costs
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- **Value Engineering**
  - Loop 303
  - Loop 202/South Mountain
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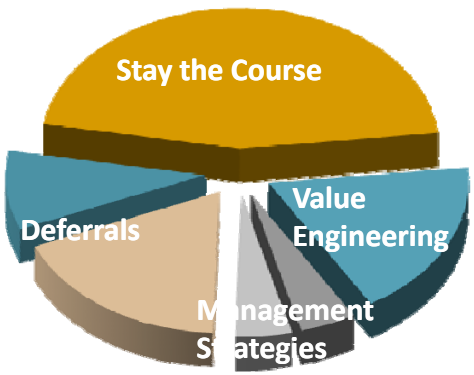
Steps towards a Tentative Scenario



Management Strategies
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- **Management Strategies**
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  - Loop 303
  - Loop 202/South Mountain
- **Deferrals**
  - Corridors
  - General Purpose Lane and DHOV
  - Right-of-Way (ROW)
  - Traffic Interchanges
- **Stay the Course**
  - Core enhancements

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Tentative Scenario Summary

Table 1

		Balance
2009 Regional Freeway and Highway Program Cost Opinion:		$15,952.4
Management Strategy savings from lower construction and system-wide costs	-$762.3	$15,190.1
Value Engineering savings in the Loop 202/South Mountain and Loop 303 Freeway corridors	-$1,703.3	$13,486.8
Deferral savings to Phase V	-$4,125.2	$9,361.6
Stay the Course changes	+$30.0	$9,391.6
New Regional Freeway Program Cost Opinion:		**$9,391.6**

Looking west at Interstate 10, from the 40th St Overcrossing

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Other Tentative Scenario Recommendations

- Revenue monitoring
- Future federal funds
- Alternate funding
- Other federal funding sources
- Project delivery methods
- ROW preservation

Junctions of Interstates 10 and 17, the Stack interchange in central Phoenix.

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“It takes less time to do a thing right than it does to explain why you did it wrong.”

HENRY WADSWORTH LONGFELLOW, AMERICAN POET

For more information:

Bob Hazlett, P.E.

Senior Engineer

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602 254-6300

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