

Regional Transportation Plan

PHASE I, FY 2006 – 2010

Status / Update

February 24, 2006



Regional Transportation Plan
Phase 1 Construction and R/W Projects
(FY 2006 - 2010)

**Existing Corridor Widening
and Improvements**



2001 Award Recipient

**US60, 303L to McDowell Rd.
Improvements
FY09 & 10**

**SR202L, SR51 to 101L
Widening
FY09**

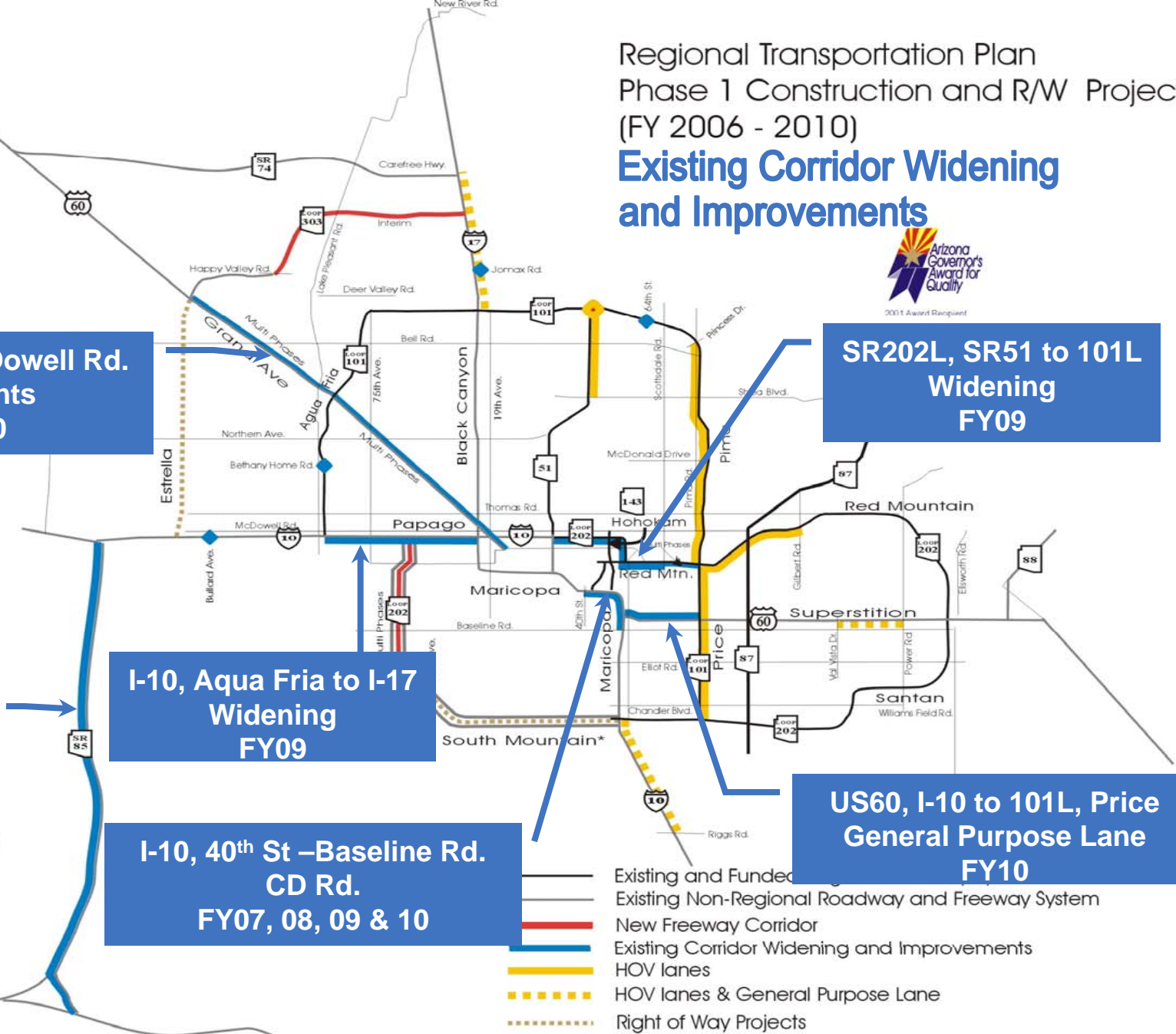


**SR85, I-8 to I-10
Widening
FY07, 09 & 10**

**I-10, Aqua Fria to I-17
Widening
FY09**

**I-10, 40th St –Baseline Rd.
CD Rd.
FY07, 08, 09 & 10**

**US60, I-10 to 101L, Price
General Purpose Lane
FY10**



- Existing and Funded
- Existing Non-Regional Roadway and Freeway System
- New Freeway Corridor
- Existing Corridor Widening and Improvements
- HOV lanes
- HOV lanes & General Purpose Lane
- Right of Way Projects

* Location of South Mountain Freeway is being addressed in the DCR/EIS study process currently underway.

Regional Transportation Plan
Phase 1 Construction and R/W Projects
(FY 2006 - 2010)

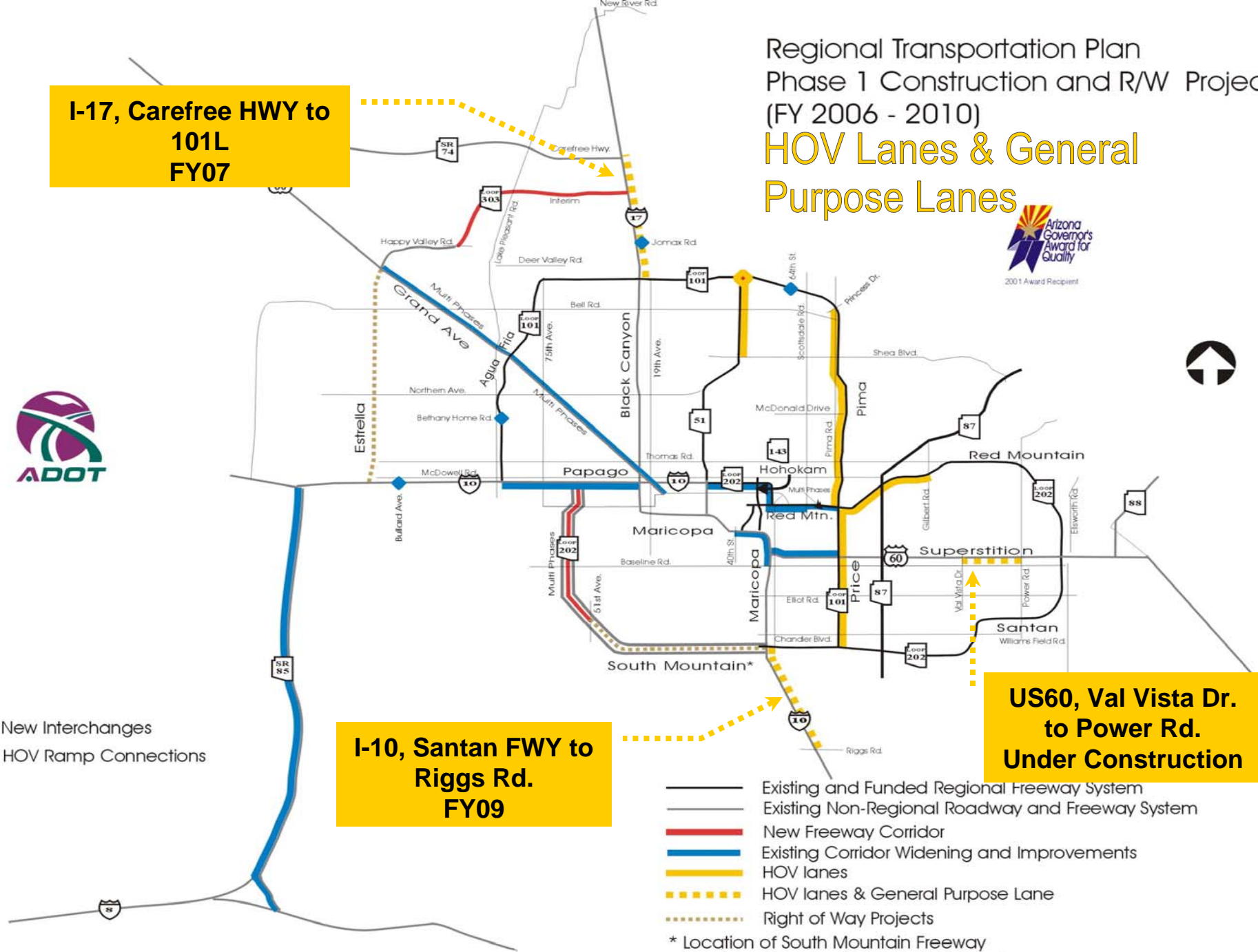
HOV Lanes & General Purpose Lanes



**I-17, Carefree HWY to 101L
FY07**

**I-10, Santan FWY to Riggs Rd.
FY09**

**US60, Val Vista Dr. to Power Rd.
Under Construction**



- ◆ New Interchanges
- ◆ HOV Ramp Connections

- Existing and Funded Regional Freeway System
- Existing Non-Regional Roadway and Freeway System
- New Freeway Corridor
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Regional Transportation Plan Phase 1 Construction and R/W Projects (FY 2006 - 2010)



**303L, I-17 to Happy Valley Rd.
Interim
FY08 & 09**

**303L, US60 to I-10
Right of Way
FY06-10**



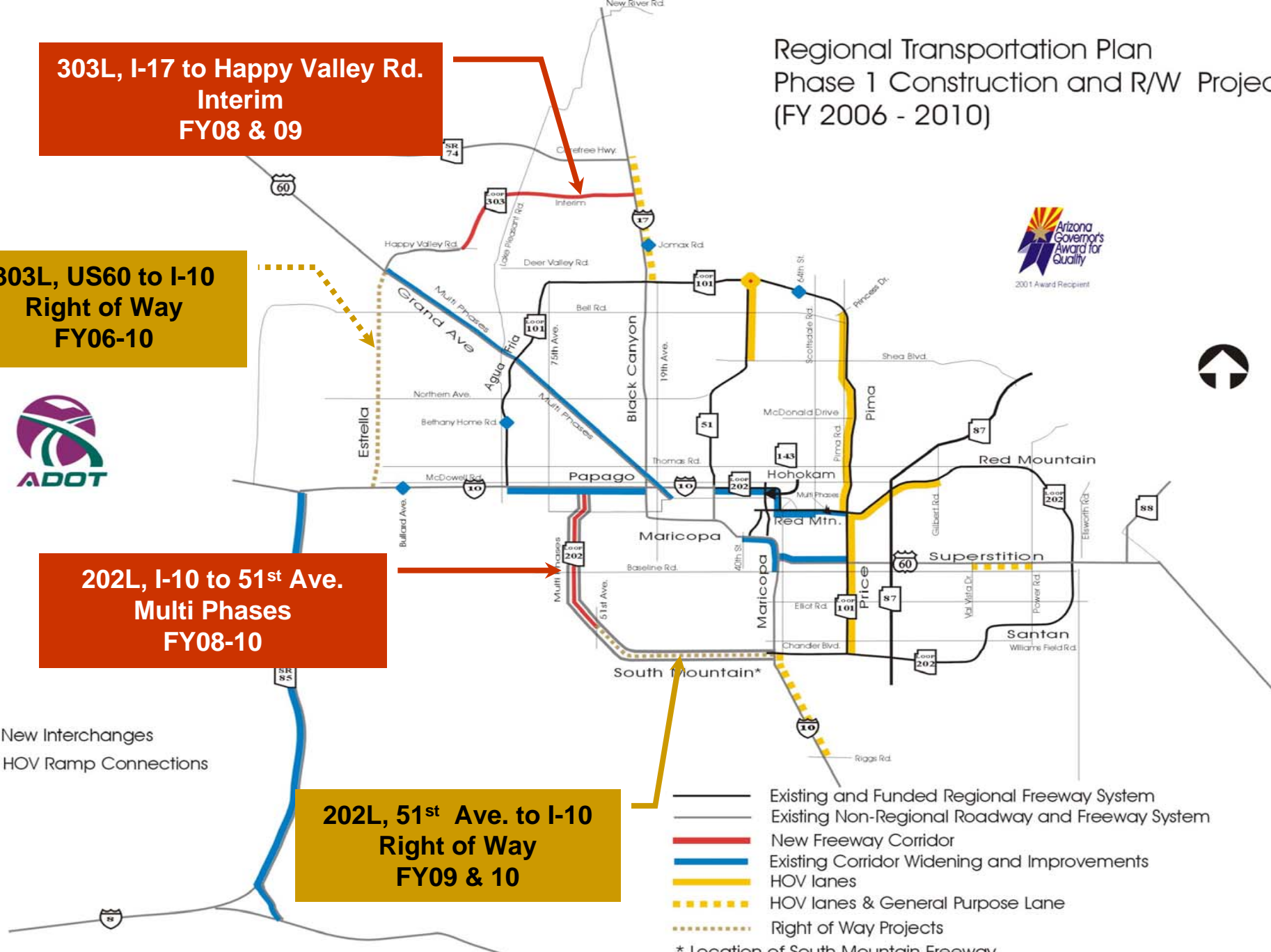
**202L, I-10 to 51st Ave.
Multi Phases
FY08-10**

**202L, 51st Ave. to I-10
Right of Way
FY09 & 10**

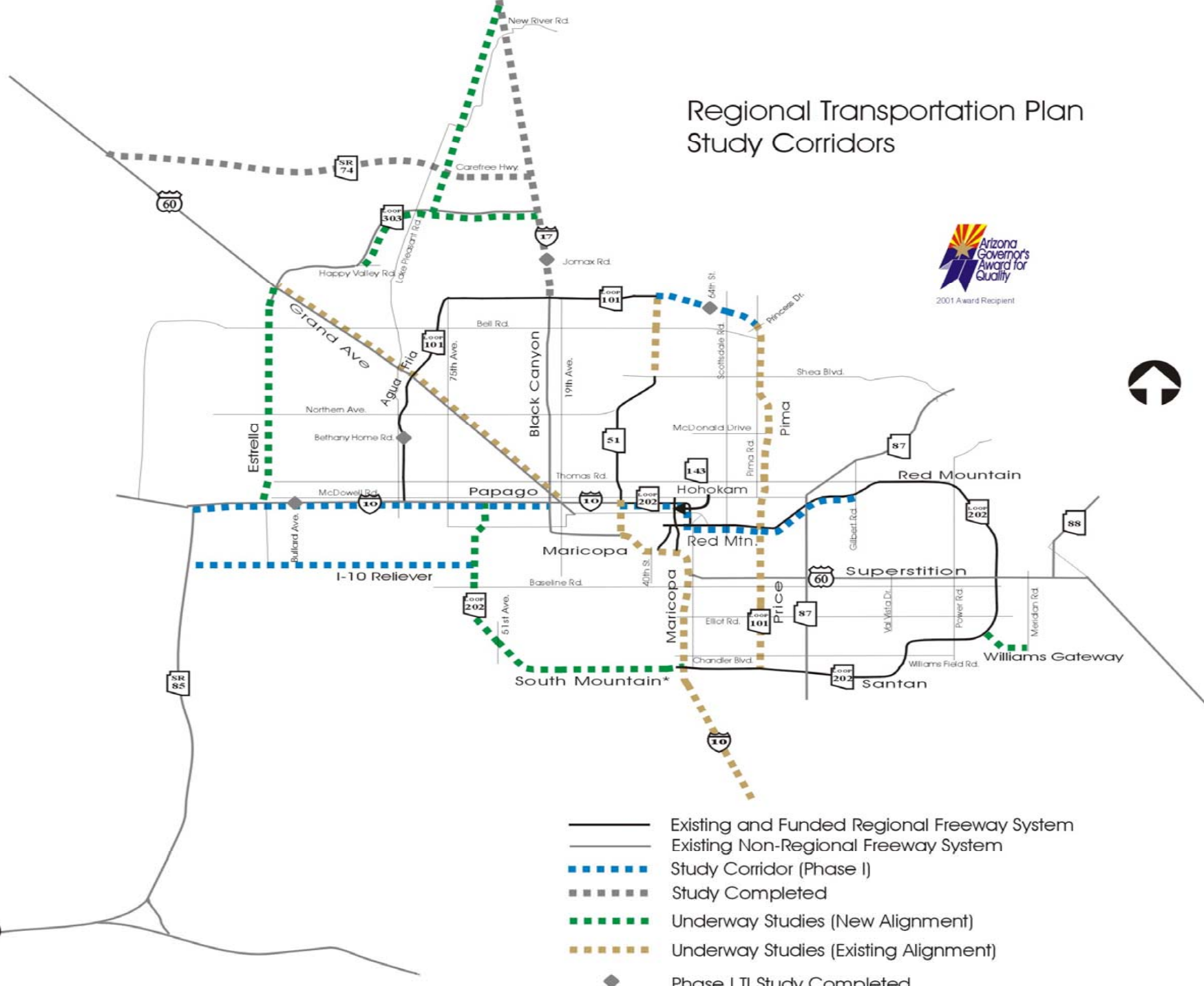
- New Interchanges
- HOV Ramp Connections

- Existing and Funded Regional Freeway System
- Existing Non-Regional Roadway and Freeway System
- New Freeway Corridor
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- HOV lanes
- HOV lanes & General Purpose Lane
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Regional Transportation Plan Study Corridors



- Existing and Funded Regional Freeway System
- Existing Non-Regional Freeway System
- Study Corridor (Phase I)
- Study Completed
- Underway Studies (New Alignment)
- Underway Studies (Existing Alignment)
- ◆ Phase I TI Study Completed

I-10

■ Bullard Ave. TI :

**Under final design, to be advertised
in late FY06.**



I-10

■ I-17 to Loop 101 :

- ❖ Widening study delayed pending transit studies (Light Rail / Bus Rapid Transit) for potential use of I-10 median. Study recommendations anticipated by summer 2006.
- ❖ Construction funding is programmed for FY09.



I-10

■ SR51 to Santan Freeway :

- ❖ Collector Distributor roadway study.
- ❖ DCR/EIS underway but progressing slowly.
- ❖ Studies to be completed in FY08 at the earliest.
- ❖ Expenditure of all \$320 mil in Phase 1 as programmed may be problematic as a result of delayed study completion.



I-10

■ Ray Road TI Widening :

- ❖ Under final design.
- ❖ Advertise in late FY06.



I-10

■ Loop 202 – Riggs Road :

- ❖ GRIC recently transmitted a resolution supporting I-10 widening but with many conditions.
- ❖ DCR/EA studies can now proceed with expectations to complete by FY08.
- ❖ Construction programmed for FY09 could be delayed.



I-10

■ I-10 Widening, Citrus/Loop 303 to Dysart Road :

- ❖ Coordination meetings underway involving west side cities, MAG, MCDOT and ADOT.
- ❖ Study effort initiated.
- ❖ Financing discussions and evaluations also occurring.



I-10 Reliever

- (SR801) alignment study underway.
- Public scoping meetings held in September.
- Environmental study underway.
- R/W protection may be possible beginning in FY08.



I-17

■ Jomax and Dixileta TIs :

- ❖ Final design has started.
- ❖ Advertisement in FY06.
- ❖ Construction to begin in late calendar year 06.



I-17

■ Carefree Highway TI :

- ❖ Re-scoping underway.
- ❖ Final design to begin in early 2006.
- ❖ Advertisement anticipated in FY07.



I-17

■ Loop 101 to Carefree Highway TI :

- ❖ Final design underway.
- ❖ Advertisement targeted for late FY07.
- ❖ Construction to begin in late calendar year 07.



SR51

■ Shea Blvd. – Loop 101:

- ❖ HOV lane scoping almost completed.
- ❖ Final design to start in FY06.
- ❖ Advertisement in FY07.



US60, Grand Ave.

■ 99th Ave. – 83rd Ave.:

- ❖ Scoping nearing completion.
- ❖ Final design to begin in FY06.
- ❖ Advertisement in FY07.



US60, Grand Ave.

■ Loop 303 – Loop 101:

- ❖ Widening Grand Ave. to 3 lanes.
- ❖ Scoping underway.
- ❖ Advertisement planned for FY09.



US60, Superstition Freeway

■ I-10 to Price :

- ❖ Scoping complete.
- ❖ Anticipate advertisement in FY10.
- ❖ Need to ensure Regional Council conditions are met before proceeding to final design.



Loop 101, Agua Fria

■ Bethany Home Rd. TI :

- ❖ North half under final design.
- ❖ Advertise in late FY06.
- ❖ Construction to begin late calendar year 06.
- ❖ South half under construction.



Loop 101, Pima Freeway

■ 64th St. TI :

- ❖ Under final design.
- ❖ Advertise in FY07.
- ❖ Construction to begin in late calendar year 06.



Loop 101, Pima Freeway

■ Princess Dr. – Loop 202 :

- ❖ HOV lane project scoping nearing completion.
- ❖ Final design to start in FY06.
- ❖ Advertisement targeted for FY07.



Loop 101, Price Freeway

■ Loop 202 to Baseline Rd. :

- ❖ HOV lane scoping nearing completion.
- ❖ Design to start in FY06.
- ❖ Advertisement targeted for FY08.



Loop 101, Price Freeway

■ Baseline Rd. to Loop 202 :

- ❖ HOV lane scoping nearing completion.
- ❖ Design to begin in FY06.
- ❖ Advertisement targeted for FY10.



Loop 202, South Mountain Freeway

- 4th year of EIS study; expect completion in 2007 with FHWA Record of Decision to follow.
- Target construction advertisement on western segment in FY08 will be delayed.



Loop 202, South Mountain Freeway

- Following public input at meetings and Citizen's Advisory Team, ADOT/FHWA expect to make a decision on preferred western alignment (I-10 to 51st Ave.) in April/May 06.



Loop 202, Red Mountain Freeway

- **Loop 101 to Gilbert Rd. :**
 - **HOV lanes scoping to be initiated in 2006.**
 - **Construction is programmed for FY09.**



Loop 303

- Happy Valley Rd. to I-17 :
 - Engineering and environmental studies nearing completion.
 - Final design has started in anticipation of advertisement in FY08.



Loop 303

■ I-10 to US60 :

- DCR/EA being prepared by MCDOT is nearing completion.
- 30% plans will begin in FY06 to proceed with R/W preservation in Phase I.
- Construction is programmed for Phase II.



Loop 303

■ I-10 to US60 :

- West valley communities have expressed interest in acceleration of this project to match existing development and growth in the area.
- Financial partnering is being discussed with west valley communities, MAG, MCDOT and ADOT.



Williams Gateway Freeway

- **ADOT's Transportation Planning Division's studies to provide long term transportation vision for Pinal County Corridors is anticipated to be completed later this year with possible Transportation Board action to follow.**



Challenge of Construction



COMMODITY ISSUES

Cement

- ❖ US net importer
 - ❖ Ship, port and rail capacity limited.
- ❖ AZ produces 50% to 75% of state demand.
- ❖ AZ production capacity expansion problems.
 - ❖ Permitting/environmental issues.
 - ❖ Mining leases for limestone.
- ❖ Transportation capacity.
 - ❖ Rail, ship and port capacity.
- ❖ Price has more than doubled.



COMMODITY ISSUES

Aggregate

- ❖ Gravel pits moving into rural areas of state.
- ❖ Transportation costs.
- ❖ Environmental regulations.

Petroleum Products

- ❖ Pricing is volatile.
- ❖ Direct and indirect impacts.
- ❖ Transportation costs.
- ❖ Availability and pricing of asphalt products.

Steel

Lumber



EXAMPLES

❖ Cement

- ❖ November 2004: \$100 per ton
- ❖ November 2005: \$180 per ton

❖ Steel

- ❖ 2003: \$0.55 per pound
- ❖ 2004: \$0.91 per pound
- ❖ 2005: \$1.03 per pound

❖ Aggregate for Concrete

- ❖ 30% increase in past year
 - ❖ Processing & hauling costs
 - ❖ Reduced availability of sources

❖ Diesel Fuel

- ❖ 70% increase in past year (2005 to 2006)



LABOR SHORTAGES

- ❖ Lack of available skilled & unskilled labor.
- ❖ 40% turnover of workers.
- ❖ High level of other construction in state.
- ❖ Lack of adequate apprenticeship and training programs.



SUMMARY OF IMPACTS

❖ Greater Uncertainty

- ❖ Bids are increased to cover risk
- ❖ Fewer bids if risk too high

❖ Material Shortages

- ❖ Higher prices
- ❖ More schedule uncertainty
- ❖ Reduced productivity
- ❖ Liquidated damages for delays

❖ Labor Shortages

- ❖ Higher wages
- ❖ Reduced productivity
- ❖ Longer schedules



EXAMPLES OF RECENT COST INCREASES

1. US60 six mile widening project from Gilbert Rd. to Power Rd.

States estimated construction cost was \$59.7 million.

Two bids were received with the lowest at \$73.7 million. 23% higher than the State's estimate.



EXAMPLES OF RECENT COST INCREASES

2. Red Mountain Freeway : University to Southern Ave.

One bid was received for \$68.4 million which was 38% higher than the State's estimate of \$52.4 million in June.



EXAMPLES OF RECENT COST INCREASES

3. Red Mountain: Power to University

- * Program estimate: \$144 million
- * Two bids received
- * Bid Amount: \$195 million

