

Interstate 10/ Interstate 17 Corridor Master Plan Update

Regional Council
January 28, 2015



Interstate 10/Interstate 17 a.k.a. "The Spine"

- Total Regional Transportation Plan funding of **\$1.47 billion**.
- **35-mile corridor** from the North Stack (Interstate 17/Loop 101) to the Pecos Stack (Interstate 10/Loop 202).
- MAG member agencies of **ADOT, Chandler, Guadalupe, Phoenix, and Tempe**.
- About **40% of the daily freeway trips** in Metro Phoenix use some portion of the corridor.



Path Forward Defined

OUTCOME OF JOINT MEETING – OCTOBER 31, 2012



- Immediate Needs addressing bottlenecks.
- Within ADOT Rights-of-Way (ROW).
- Near Term Construction.



- Joint Project Management.
- MAG Procurement.
- **Identify Corridor Operating Principles.**
- **Coordinate with Stakeholders.**
- Frame next environmental and design efforts.



- Joint Project Management.
- ADOT Procurement.
- **Multiple Studies and Efforts.**
- Consistent with Corridor Master Plan.



- Implementation.

Corridor Master Plan Overview



Initiate Project

- Project Management Plan
- Public Involvement Plan
- Controlling Design Criteria and Design Exception/Variance Procedures.

Conduct Corridor Needs Assessment

- Existing Conditions
- PEL Checklist Part 1
- Future Conditions (No-Build)
- Agency and Public Outreach – Round 1
- Purpose and Need

Develop Corridor Alternatives Screening

- Alternatives Workshop
- Categorize Alternatives
- Tier 1 Qualitative Screening
- Tier 2 Quantitative Screening
- System Bundles
- Tier 3 Quantitative Screening (Bundles)
- Agency and Public Outreach – Round 2
- Select Recommended Alternative

Establish Corridor Master Plan

- Completed PEL
- Priority Resource Impacts Evaluation
- Mitigation Strategy
- Implementation Plan
- Design Exceptions
- Incorporate into MAG Policies
- Purpose and Need guidance for future projects

**DECEMBER
2016**

Project Organization



CHARTER PARTNERS

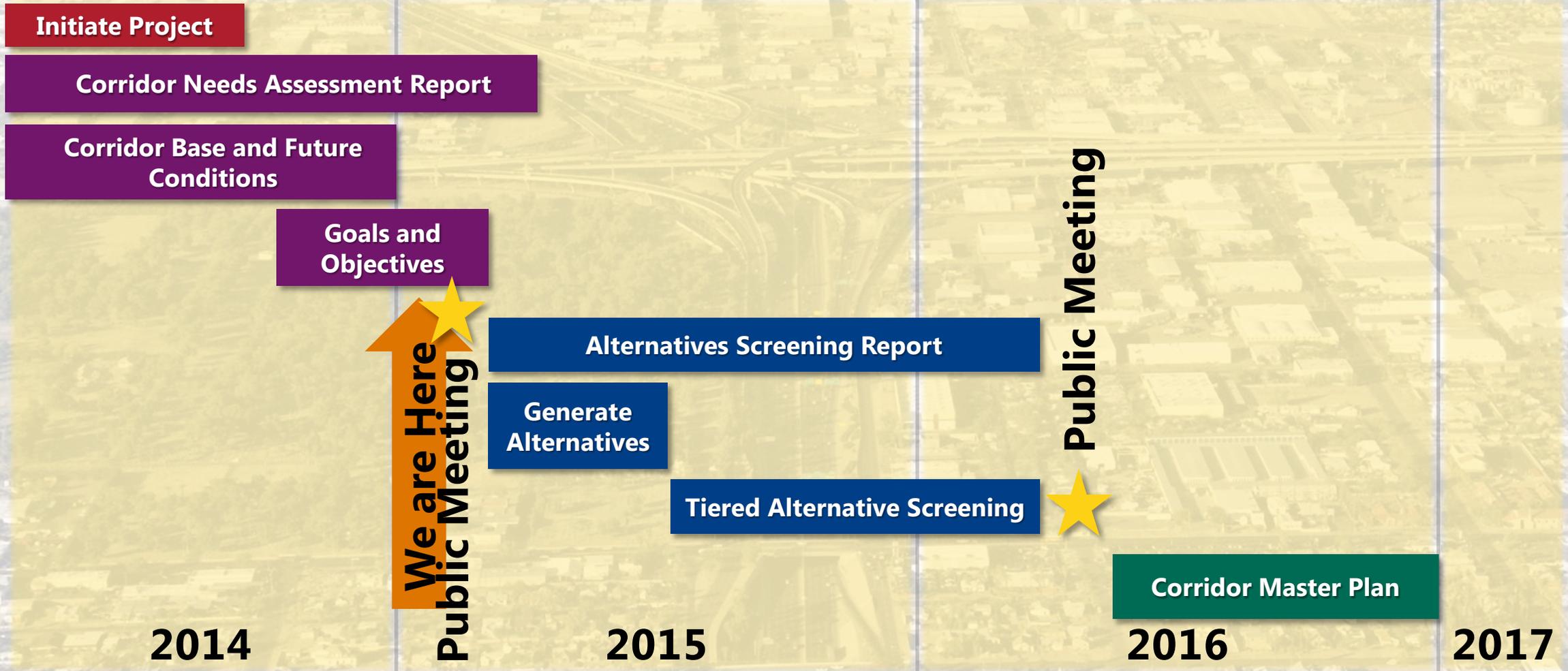
MANAGEMENT PARTNERS
MAG
ADOT
FHWA Arizona

PLANNING PARTNERS

FHWA, FAA, ADOT, MAG, Chandler,
Guadalupe, Phoenix, Tempe, Valley Metro



Study Schedule

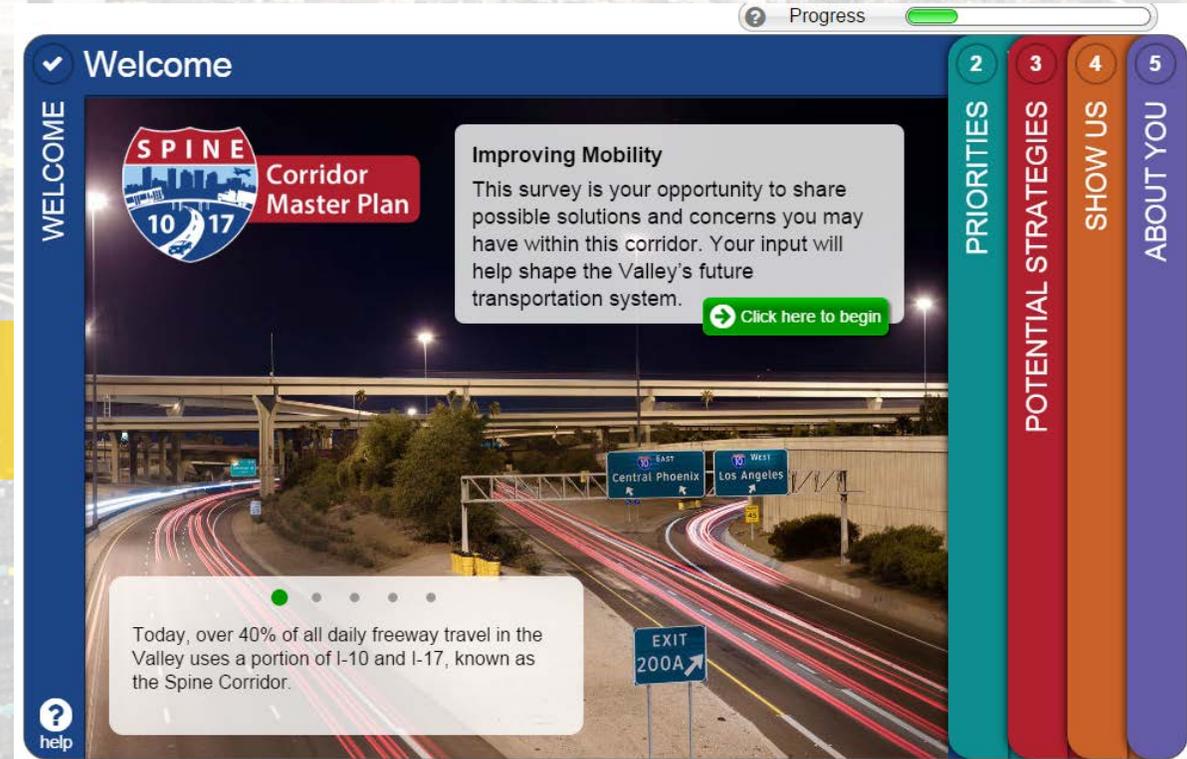


Project Communications

METROQUEST TOOL OVERVIEW



- Bilingual online engagement/survey tool used to obtain input regarding public's values/concerns, and feedback on potential scenarios and improvements.
- MetroQuest will be embedded into the study website: **spine.azmag.gov**.
- Website is organized into five "screens."
- Online survey would be available throughout the duration of the public comment period for Round #1.
- Mobile compatible.



MetroQuest Communications Tool Demonstration

Interstate 10/Interstate 17 Corridor
Master Plan



Public Information Meeting Schedule

ALL MEETINGS 6:00 to 8:00 p.m.



Wednesday, February 25

CENTRAL

Academia Del Pueblo
Elementary School Gym

Interstate 17 (Exit 195B)
and 7th St

201 E Durango St, Phoenix

Thursday, February 26

NORTH

Deer Valley Community
Center

Loop 101 (Exit 23
Eastbound, Exit 24
Westbound) and 19th Ave

2001 W Wahalla Ln,
Phoenix

Wednesday, March 4

SOUTH

Sheraton Four Points Inn
(formerly Grace Inn)

Interstate 10 (Exit 157) and
Elliot Rd

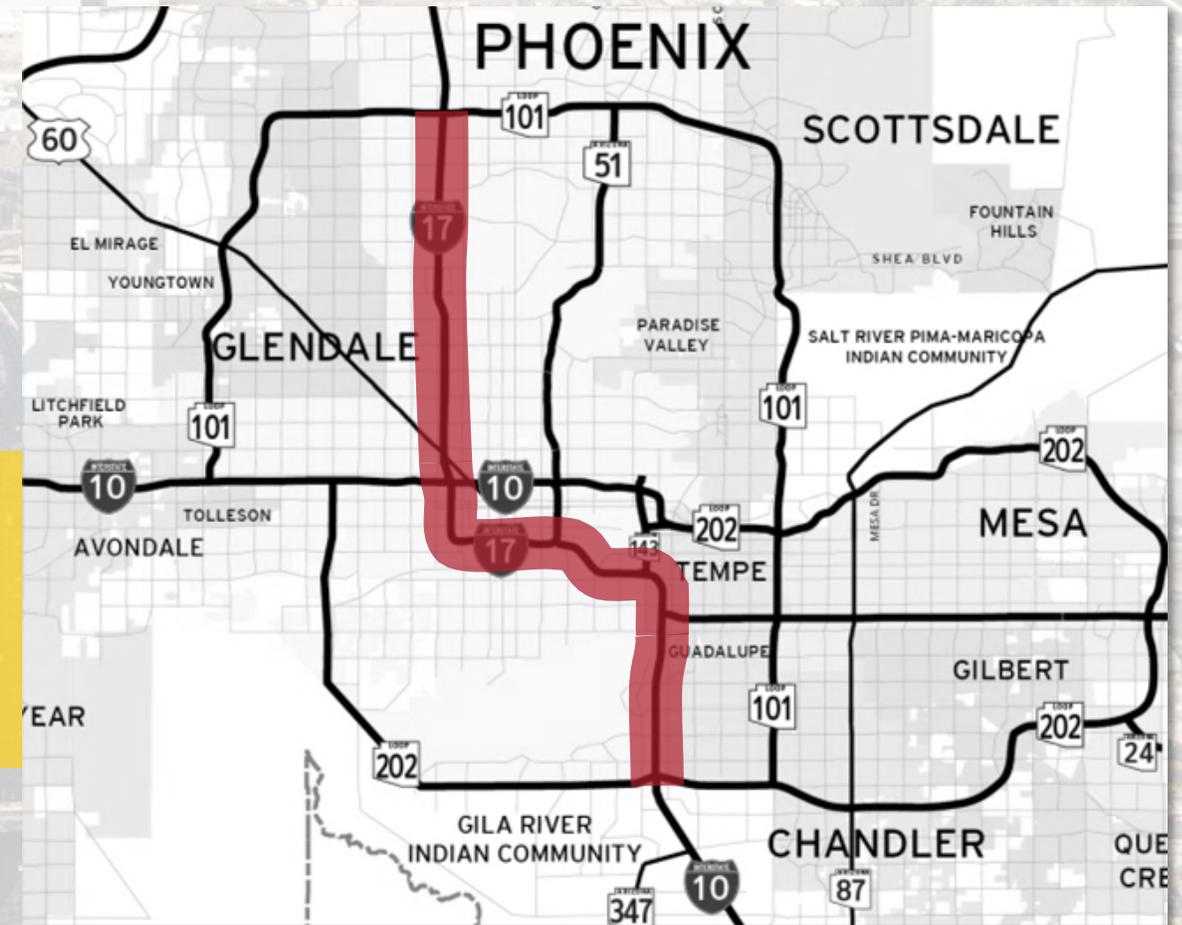
10831 S 51st St, Phoenix

Same Materials at Each Location

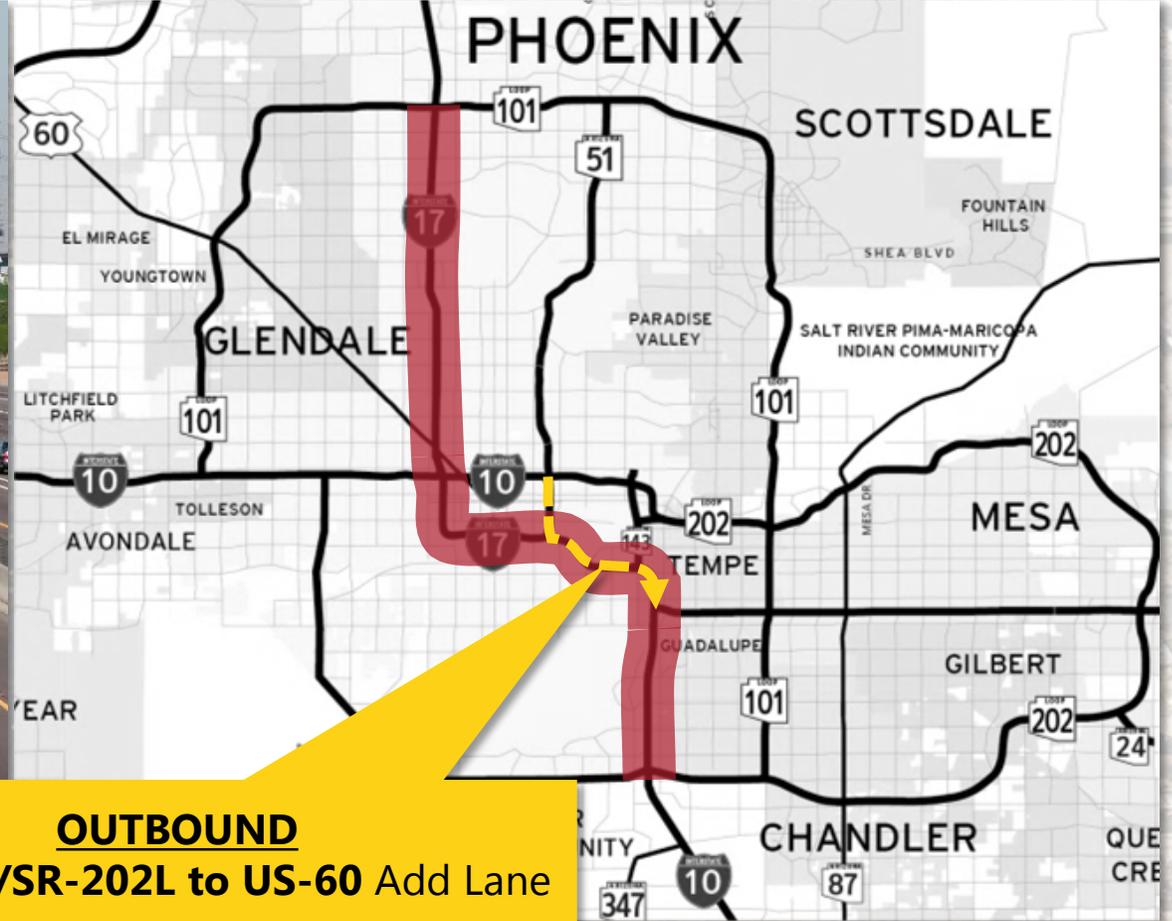
Exhibits ▪ Maps ▪ MetroQuest

Near-Term Improvement Strategy

- Under **development and study by ADOT.**
- Multiple options under consideration including those targeting bottlenecks and enhancing traffic operations.
- Candidate projects must rapidly **meet environmental requirements** and a **near-term construction time-frame.**



Interstate 10 – between SR-51/SR-202L and US-60



OUTBOUND

- SR-51/SR-202L to US-60 Add Lane

Interstate 10 - between SR-143 and US-60



OUTBOUND

- SR-51/SR-202L to US-60 Add Lane

OUTBOUND

- SR-143 to US-60 Follow CD Rd to existing ramp
- SR-143 to I-10 Follow CD Rd enter after US-60

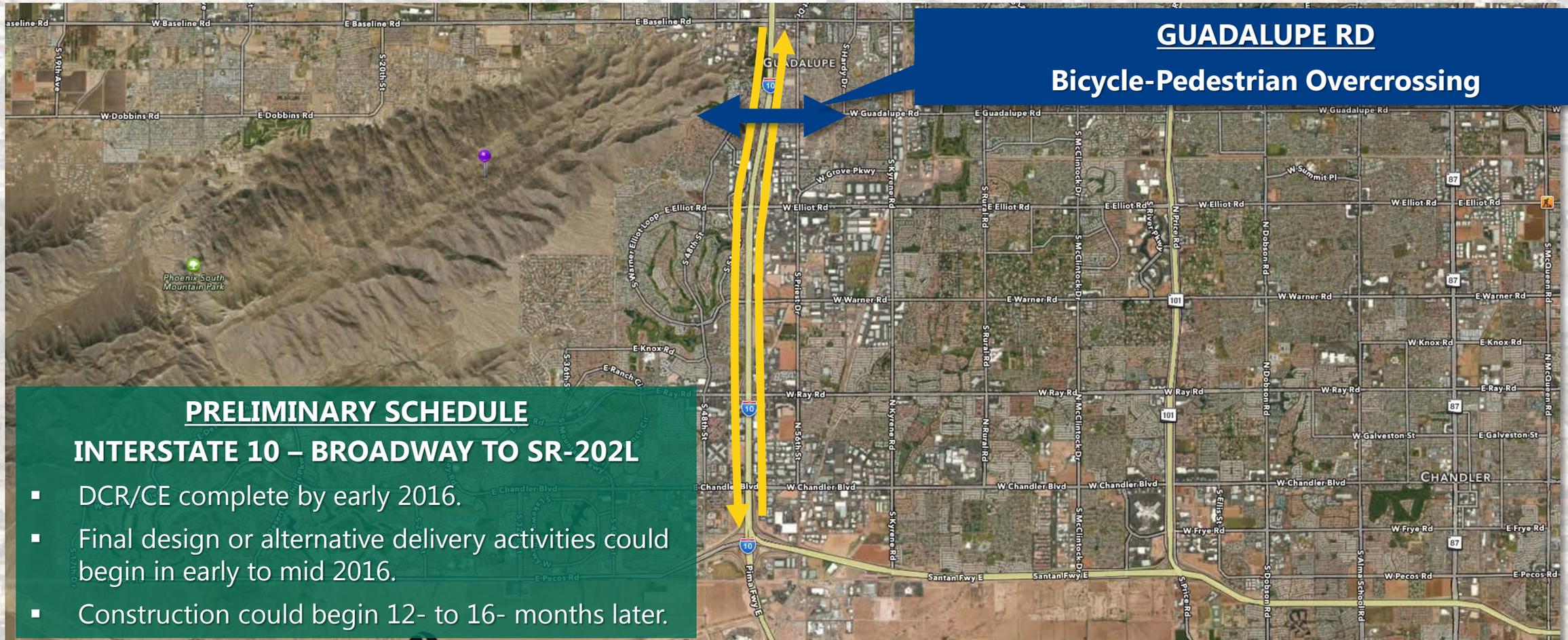
W ALAMEDA DR

Bicycle-Pedestrian Overcrossing

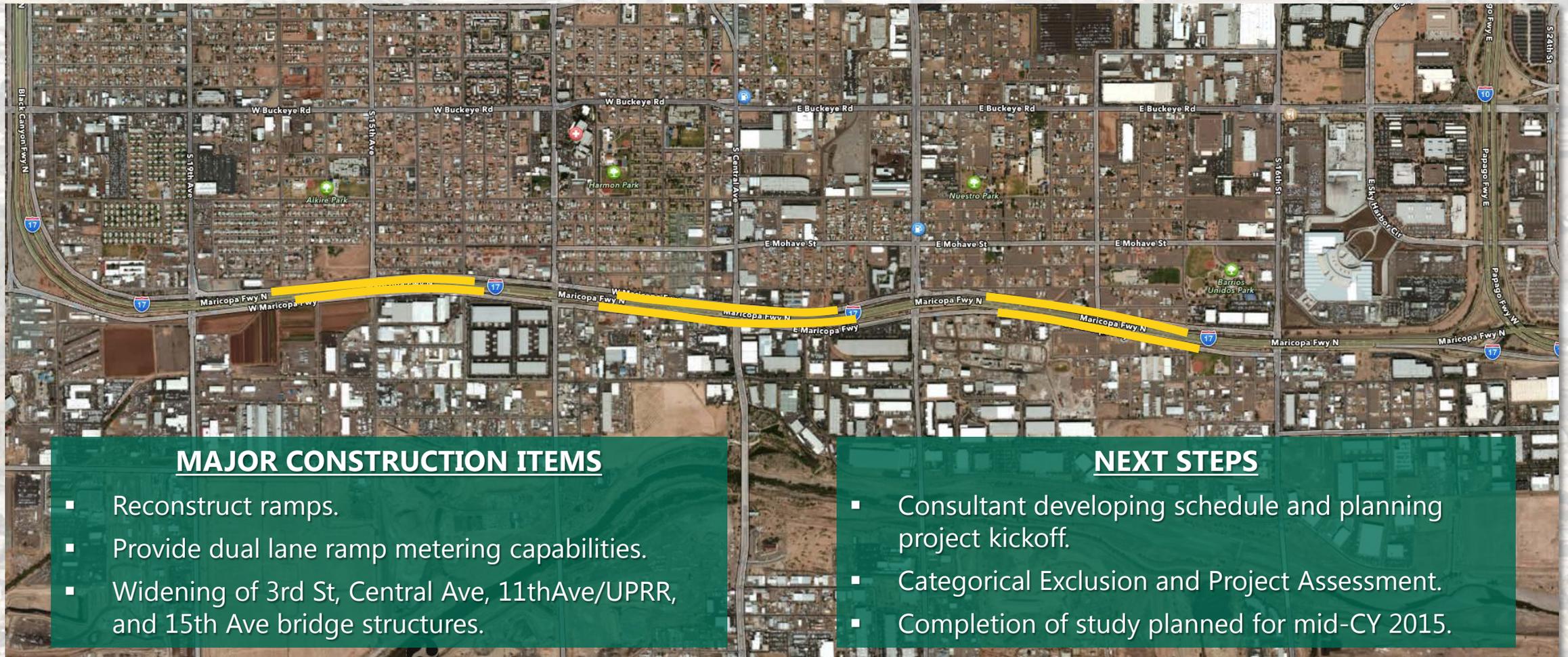
INBOUND

- I-10 to SR-143 Exit in advance of US-60 entrance
- US-60 to SR-143 Exit in advance of I-10 Entrance

Interstate 10 – between Baseline Rd and SR-202L



Interstate 17 – between 16th St and 19th Ave



MAJOR CONSTRUCTION ITEMS

- Reconstruct ramps.
- Provide dual lane ramp metering capabilities.
- Widening of 3rd St, Central Ave, 11th Ave/UPRR, and 15th Ave bridge structures.

NEXT STEPS

- Consultant developing schedule and planning project kickoff.
- Categorical Exclusion and Project Assessment.
- Completion of study planned for mid-CY 2015.

Traffic Operations and ITS Enhancements

- Focus on Interstate 17 between Interstate 10 Stack and Loop 101 North Stack traffic interchanges.
- **Active Traffic Management (ATM):**
 - Reducing potential for crashes when speed and conditions change.
 - Reducing congestion with variable speed limits, lane control, and adaptive ramp metering.
 - Improving reliability and enhancing information to motorists.
 - Providing meaningful traffic-flow benefits at a relatively low cost.
 - Coordinated with local communities.

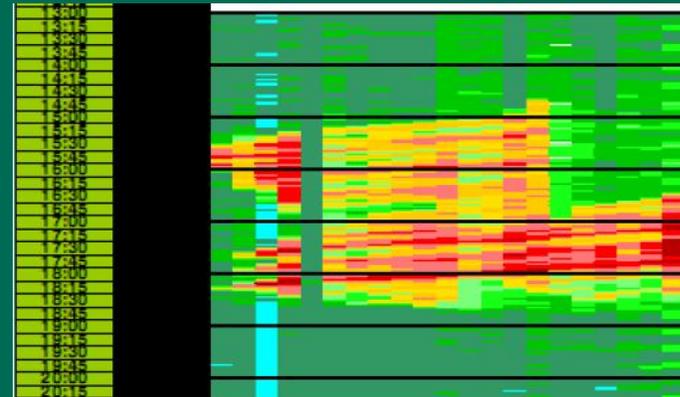


Traffic Operations and ITS Enhancements

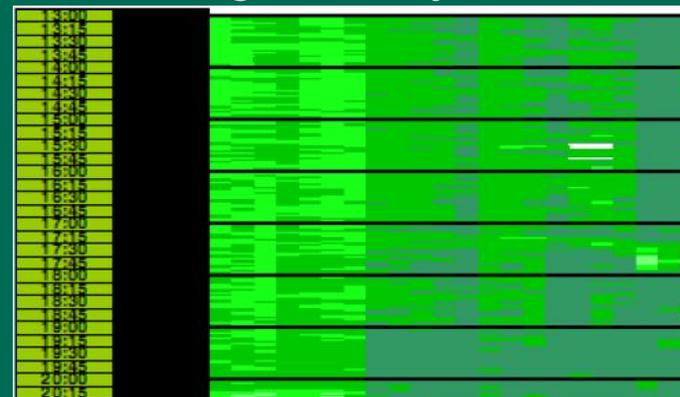
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M1 Managed Motorway Speed Contour Plots (Evening Peak Period Monash Motorway Outbound)

Before Managed Freeways (2007)



After Managed Freeways (2010)



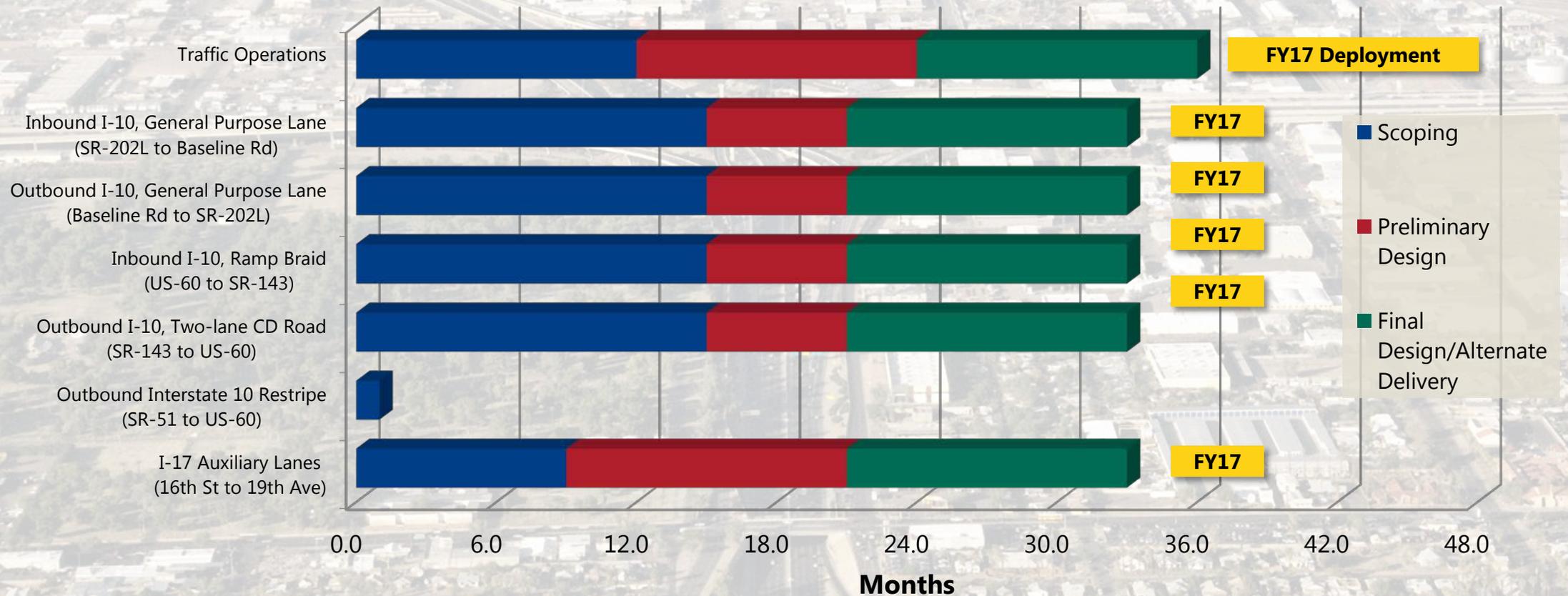
Legend Speed Ranges (km/h)

BIN	Low	High	LEGEND	INDEX
1	1	10	001 - 010	17
2	11	20	011 - 020	18
3	21	30	021 - 030	19
4	31	40	031 - 040	20
5	41	50	041 - 050	21
6	51	60	051 - 060	22
7	61	70	061 - 070	23
8	71	80	071 - 080	24
9	81	90	081 - 090	25
10	91	100	091 - 100	26
11	101	110	101 - 110	27
12	111	999	111 - 999	28

Source: VicRoads

Near-Term Improvement Strategy

SCHEDULE RECOMMENDATION



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Bob Hazlett
MAG Senior Engineering Manager
602 254-6300
bhazlett@azmag.gov

