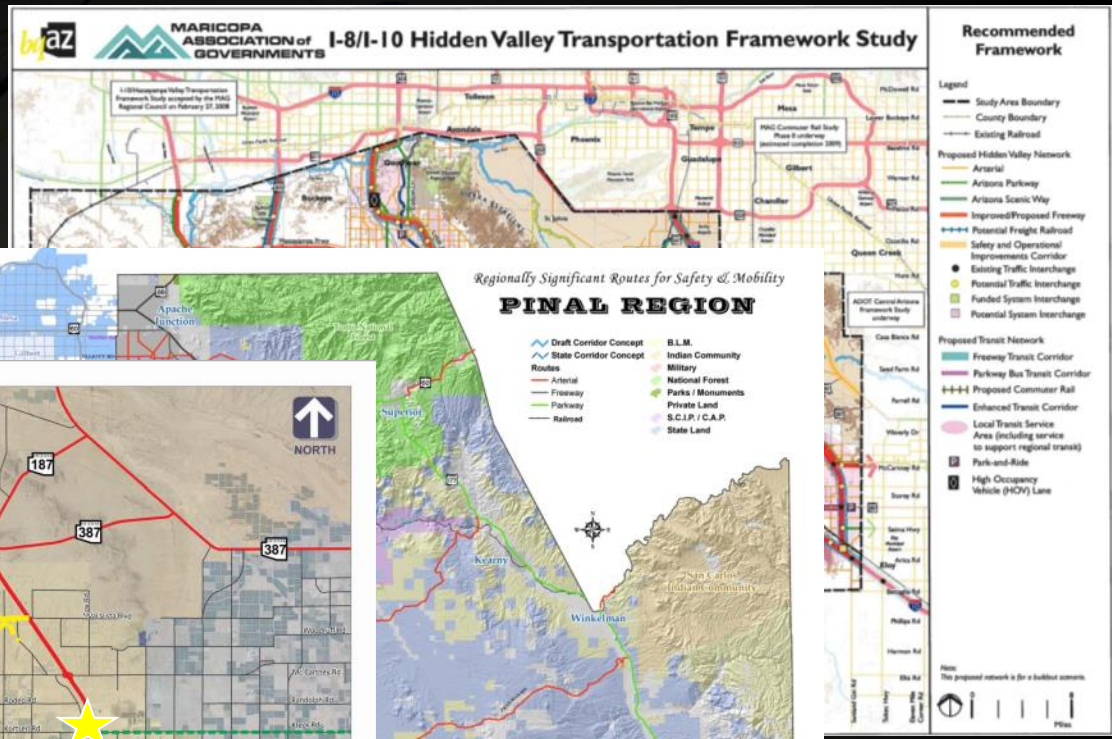
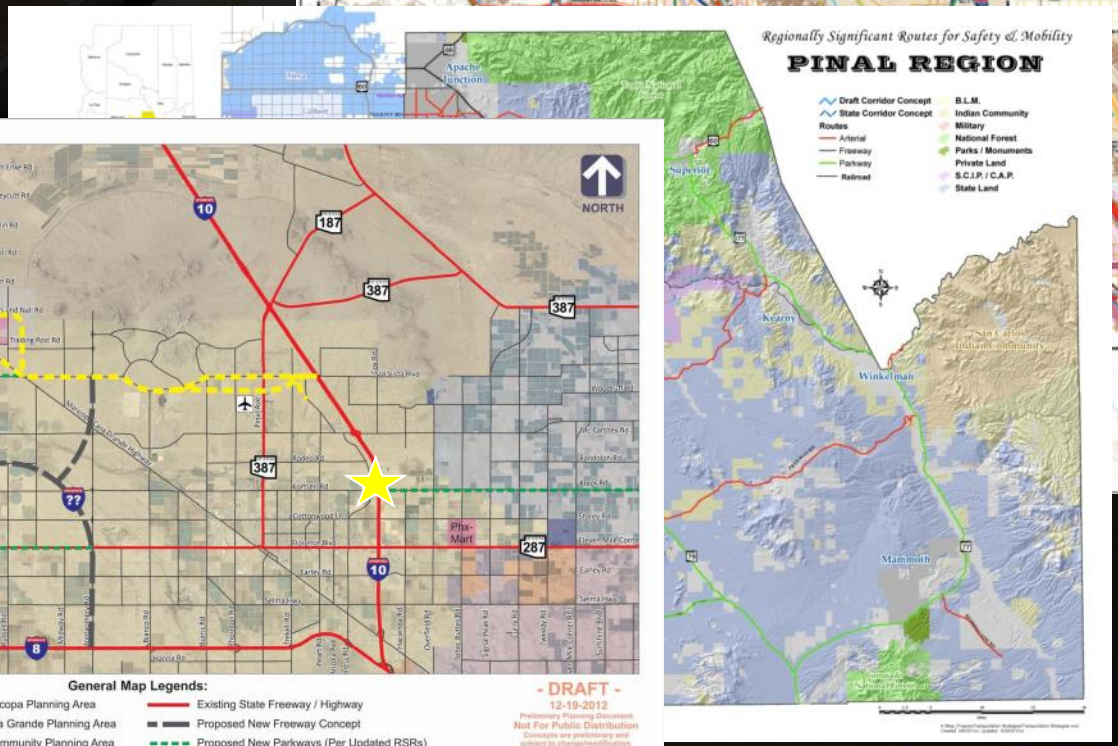
I-10/Kortsen Road Traffic Interchange Project
Public Open House

Thursday, February 12, 2015, 5:30 PM
City of Casa Grande
Council Chambers
510 E. Florence Blvd.

JACOBS

Project Goals and Objectives



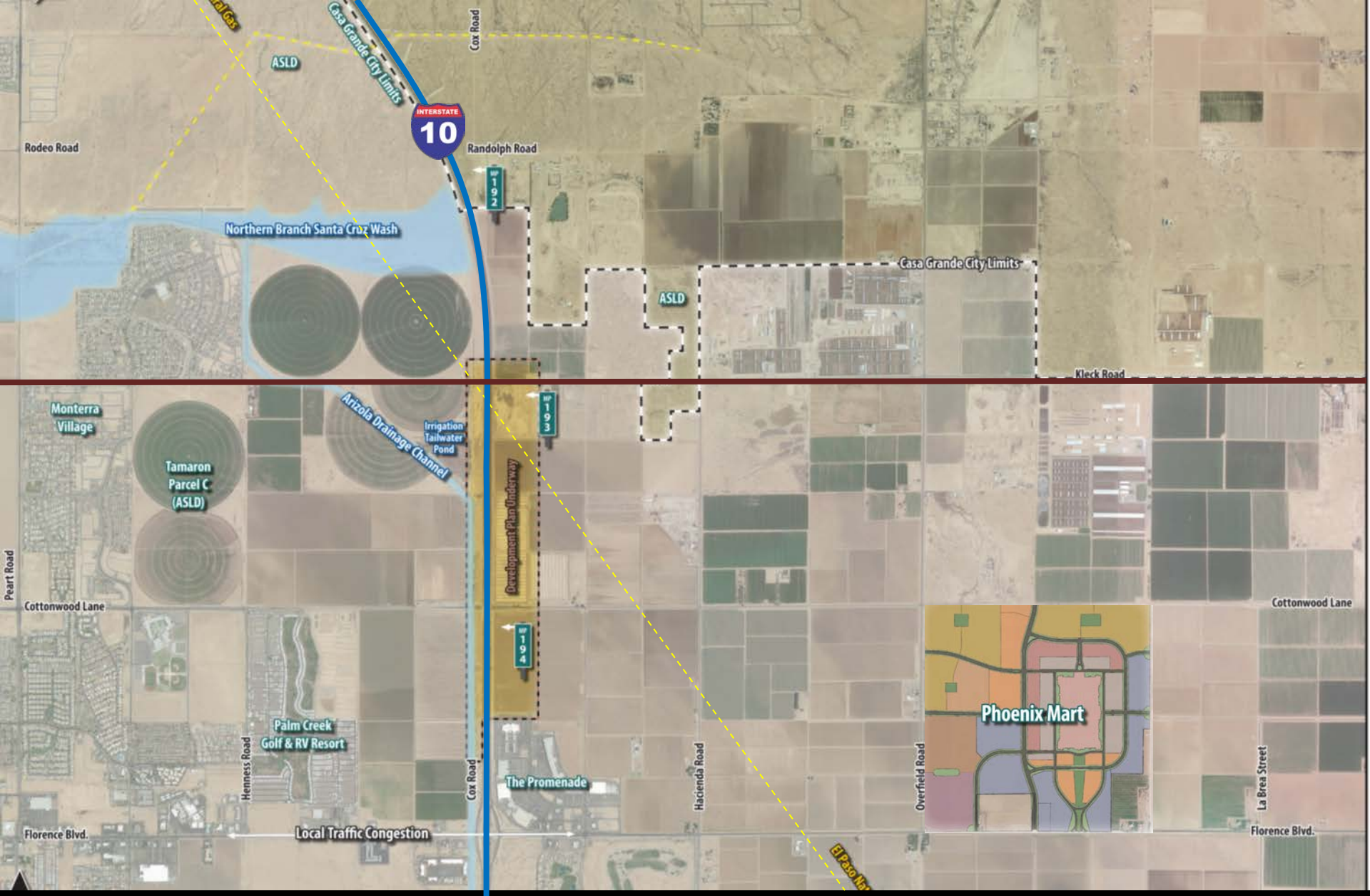


I-10/Kortsen Road Traffic Interchange

Project Goals and Objectives

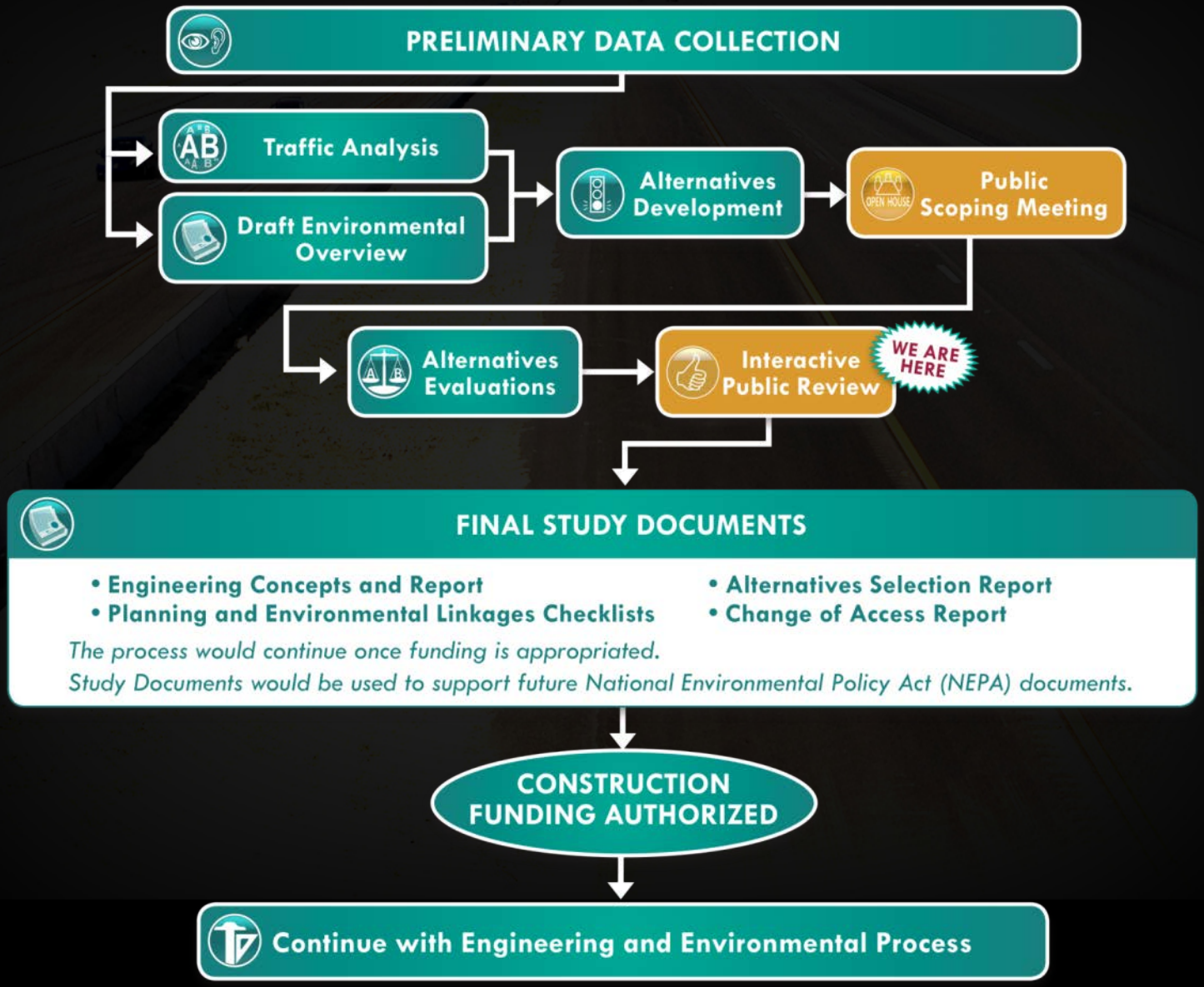
The Kortsen traffic interchange would provide:

- Linkages between the east/west sides of I-10
- Uncongested local alternative to Florence Blvd.
- Improved access to Central Pinal County
- Smart growth for transit/multi-modal opportunities

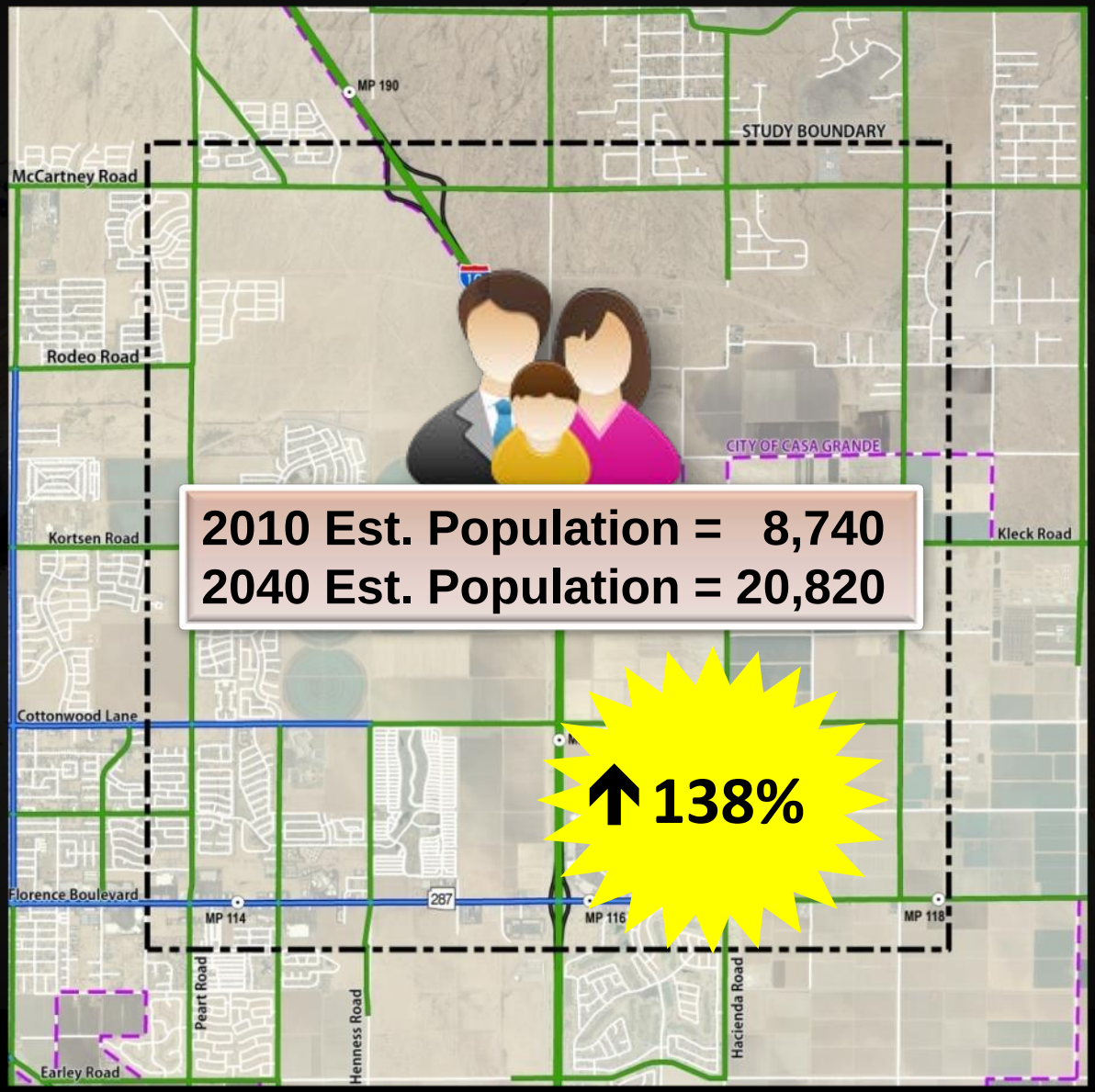


I-10/Kortsen Road Traffic Interchange

Process Overview

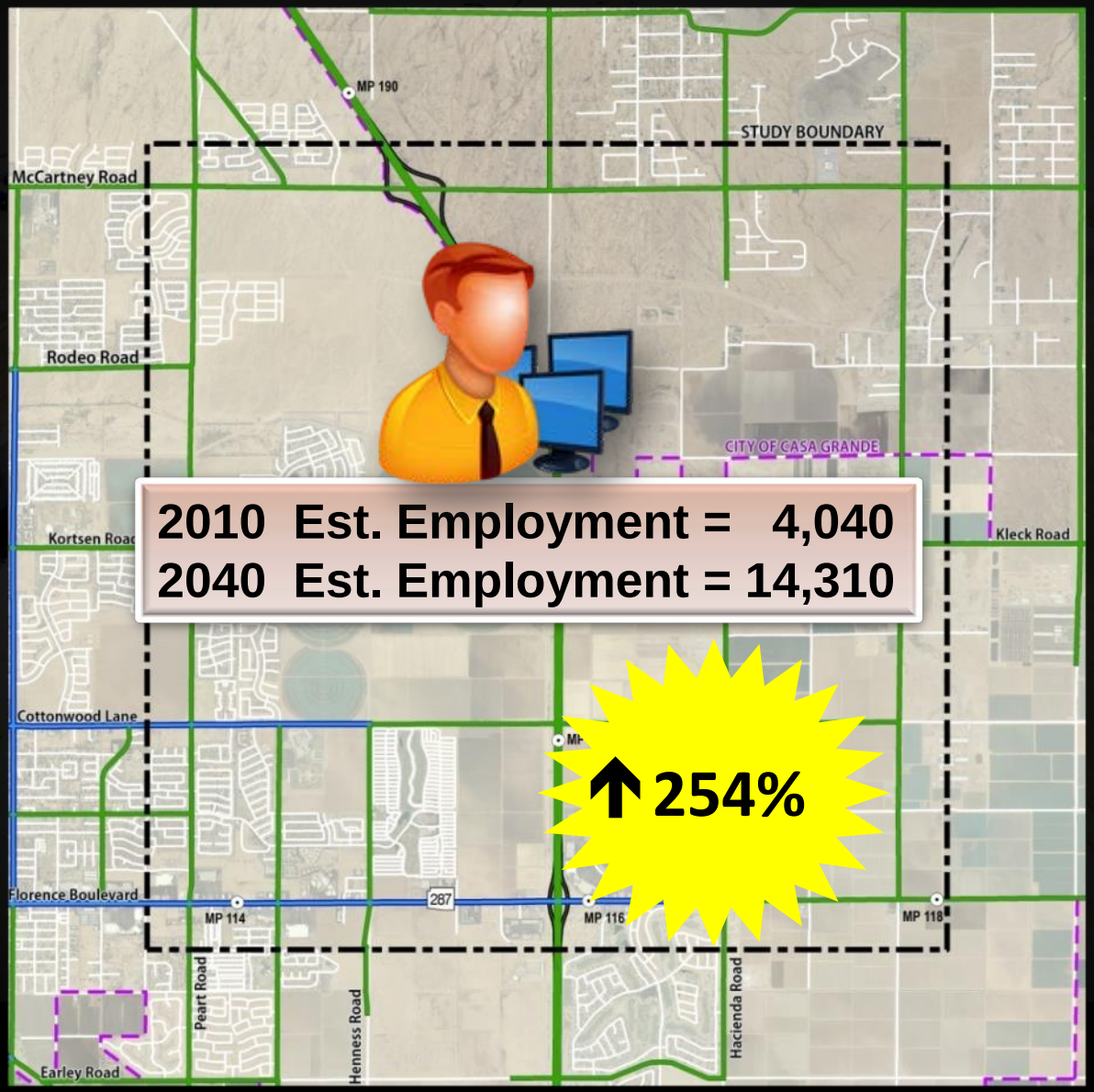


Study Area Population Forecast



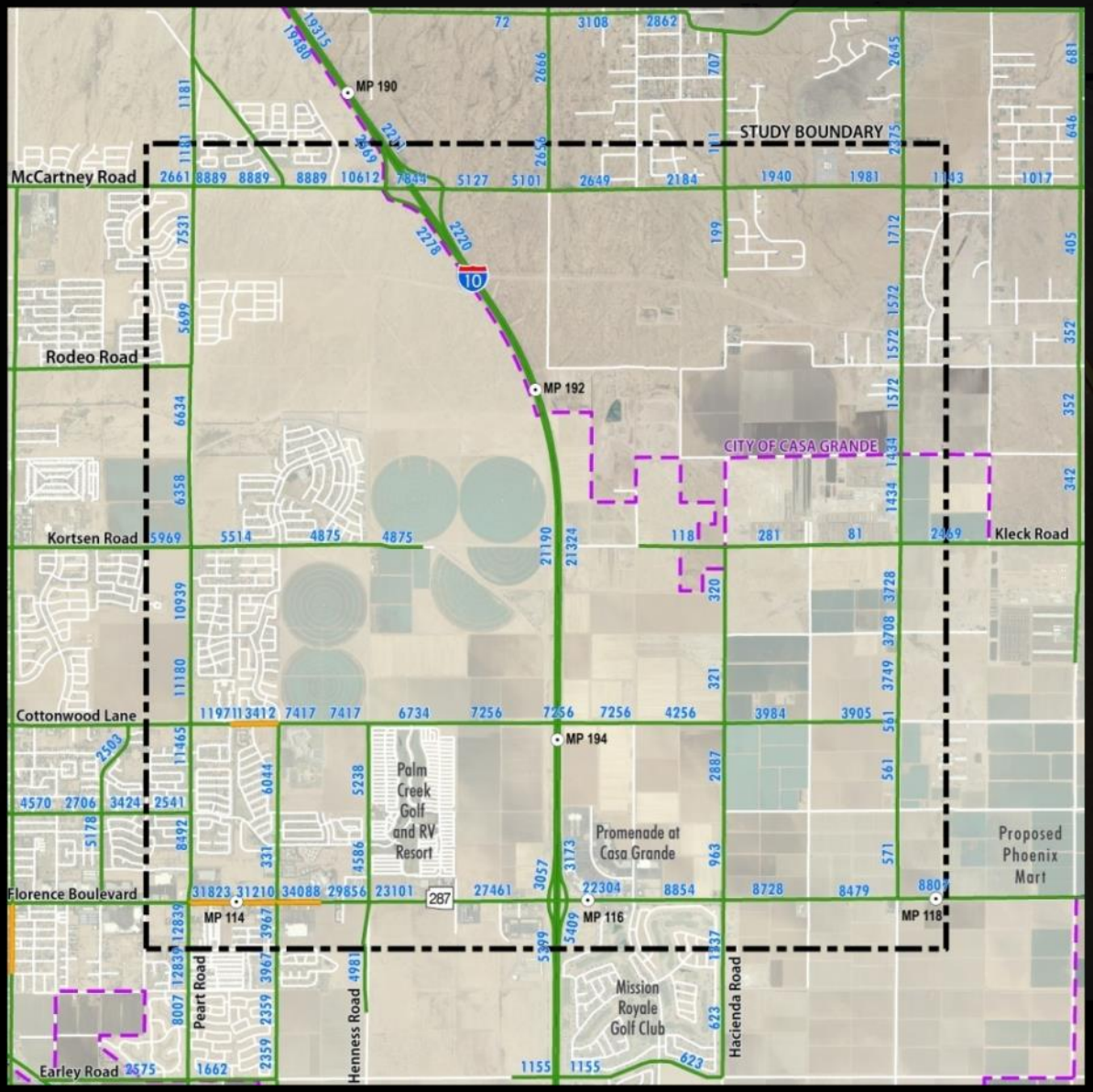
I-10/Kortsen Road Traffic Interchange

Study Area Employment Forecast



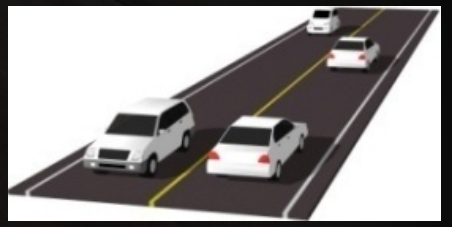
I-10/Kortsen Road Traffic Interchange

Today's Levels of Congestion



Levels Of Congestion

Low



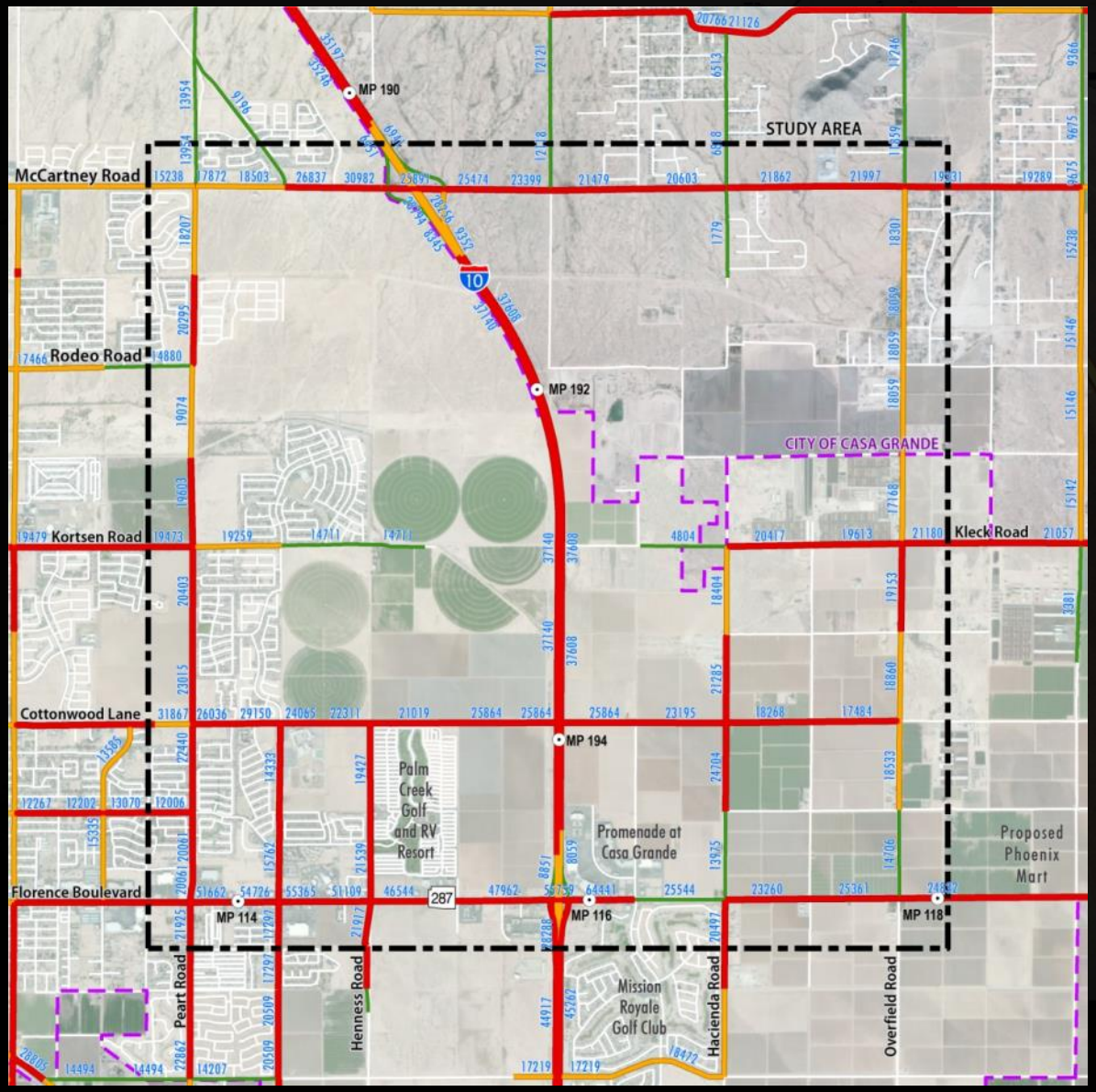
Moderate

High

XXX Traffic Volumes

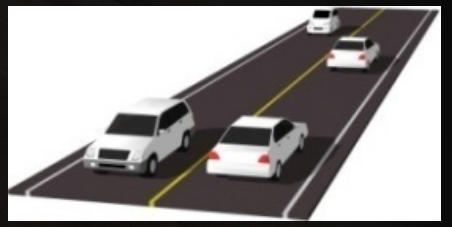
I-10/Kortsen Road Traffic Interchange

2040 Level of Congestion (No improvements)



Levels Of Congestion

Low



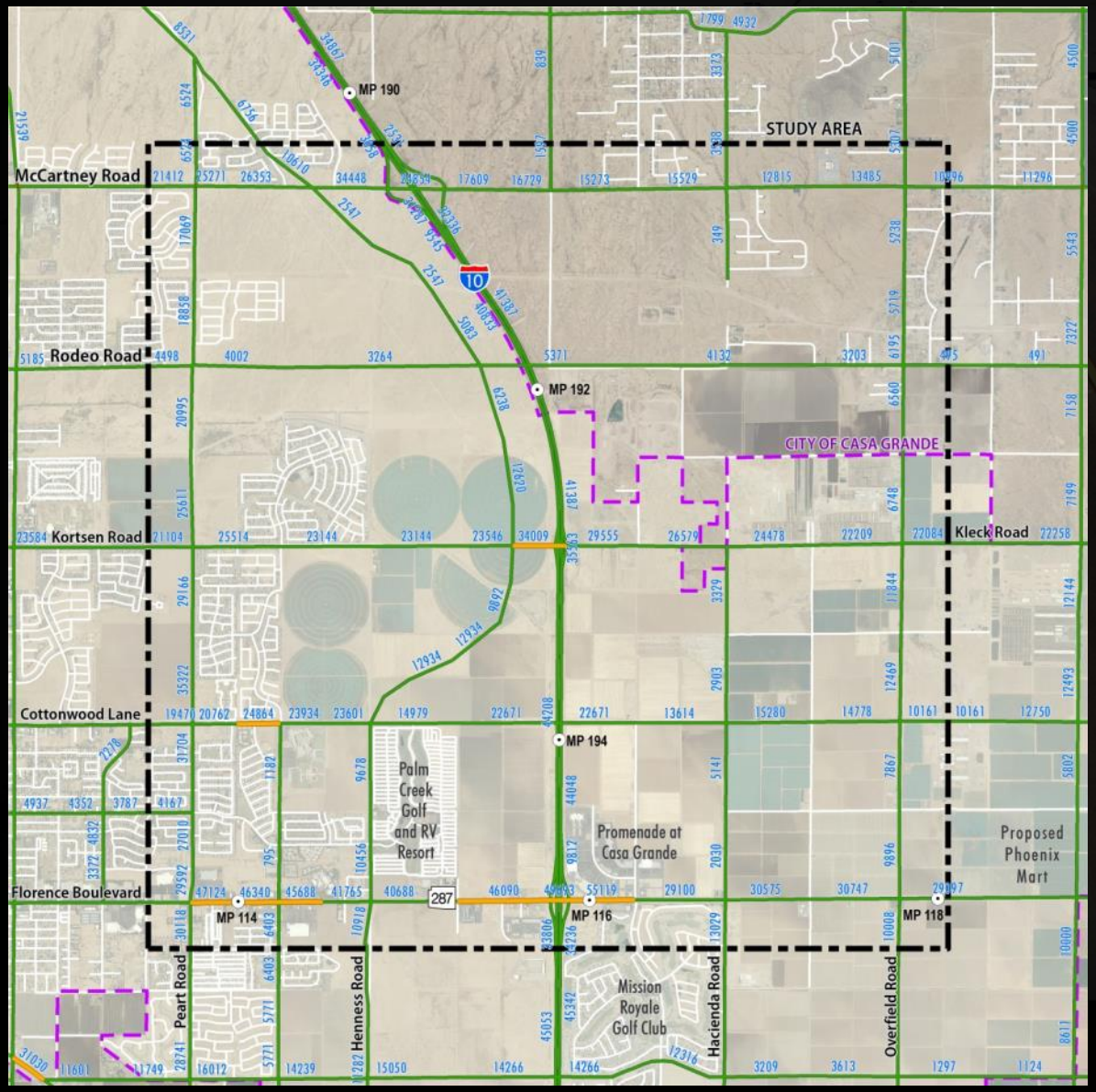
Moderate

High

XXX Traffic Volumes

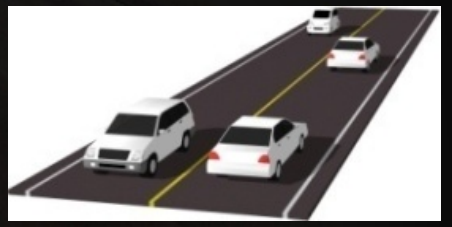
I-10/Kortsen Road Traffic Interchange

2040 Level of Congestion (with improvements)



Levels Of Congestion

Low



Moderate

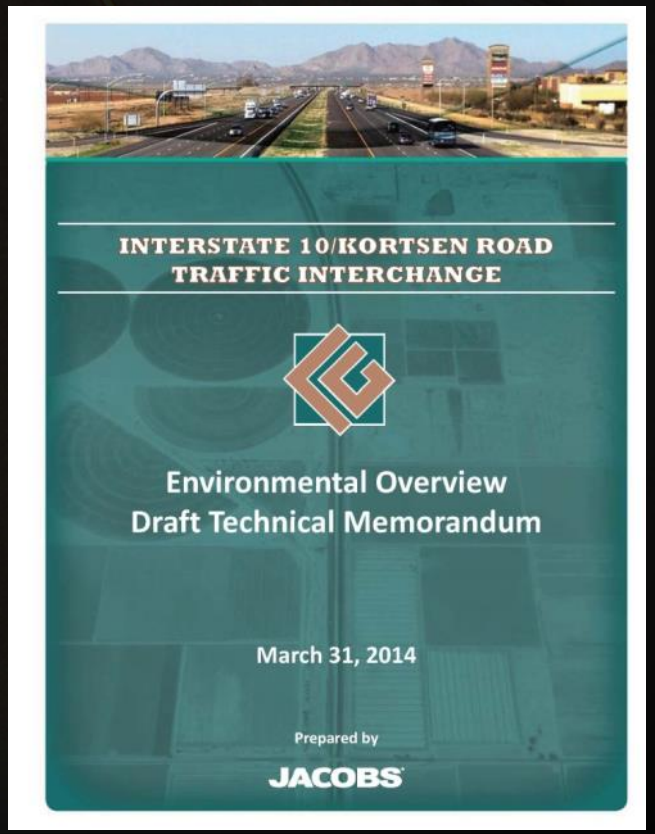
High

XXX Traffic Volumes

I-10/Kortsen Road Traffic Interchange

Environmental Elements

- Prepared an Environmental Overview
  - Describes the existing environment
  - Identifies potential issues in the study area
  - Contributes to decision-making at the alternatives analysis stage



Environmental Resources for Screening and Comparing Alternatives

- Air quality
- Compatibility with land use plans and zoning
- Cultural resources
- Native vegetation and plant communities
- Potential to displace residences or businesses
- Sensitive species
- Utilities
- Visual resources

Environmental Resources for Screening and Comparing Alternatives (cont.)

- Noise-sensitive locations
- Potential hazardous material sites
- Prime and unique farmland
- Protected populations
- Recreation areas
- Wetlands and floodplains

Potential Traffic Interchange Configurations

- Initially considered 9 concepts
  - 5 concepts eliminated prior to scoping phase
  - 4 concepts brought through to scoping phase for further evaluation

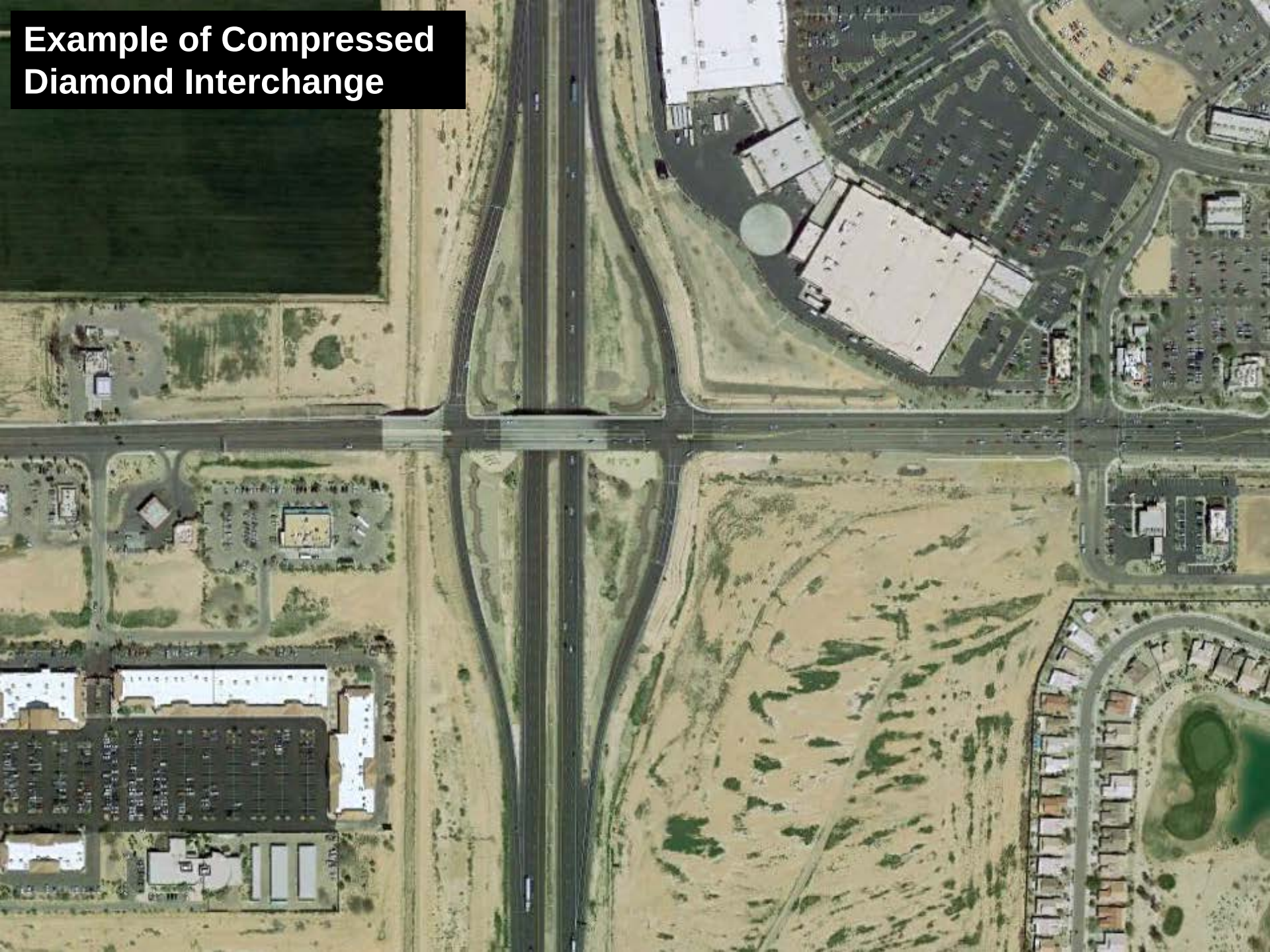
Concepts Eliminated for Better Options

- Spread diamond with roundabout ramp terminals
- Modified diamond with internal loop ramp
- Partial cloverleaf
- Overpass with frontage/collector-distributor roads
- Standard diamond with flyover ramp

CONCEPTS FOR ALTERNATIVE EVALUATION

Standard Diamond, Spread OR Compressed

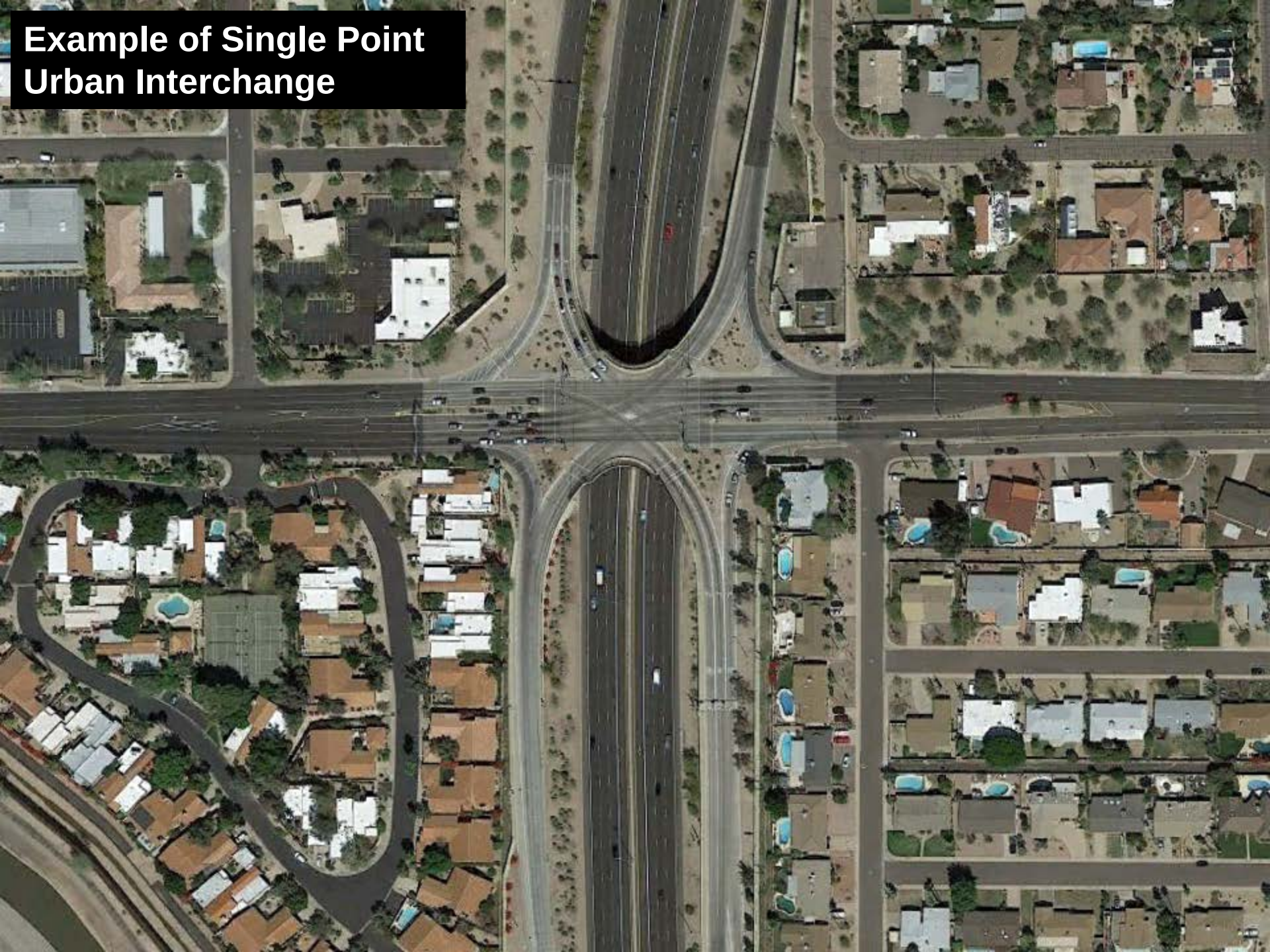
- Spread:
  - Common interchange design
  - Moderate construction costs
  - More right-of-way required
- Compressed with dual left lanes:
  - Common interchange design
  - Lower construction costs than most alternatives
  - Less right-of-way required


Example of Compressed
Diamond Interchange

Single Point Urban Interchange

- One traffic signal required for interchange
- Increased left-turn efficiency
- Larger structure required
- High construction cost

Example of Single Point Urban Interchange



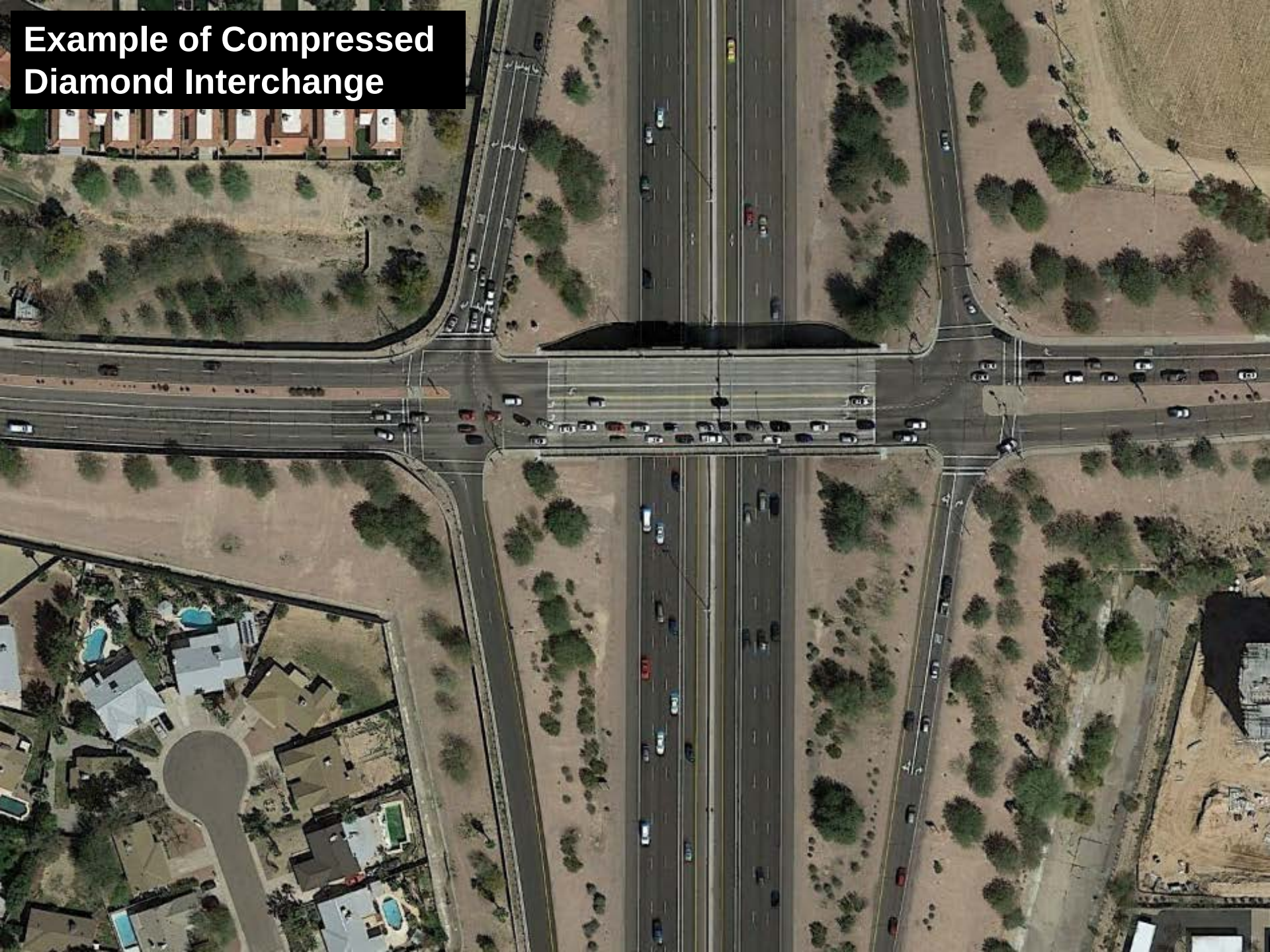
Diverging Diamond

- Eliminate left-turn signal operation
- Fewer vehicular conflict points
- Narrow bridge structure
- Lower construction costs
- More right-of-way required
- Uncommon interchange design in Arizona

Example of Diverging Diamond Interchange

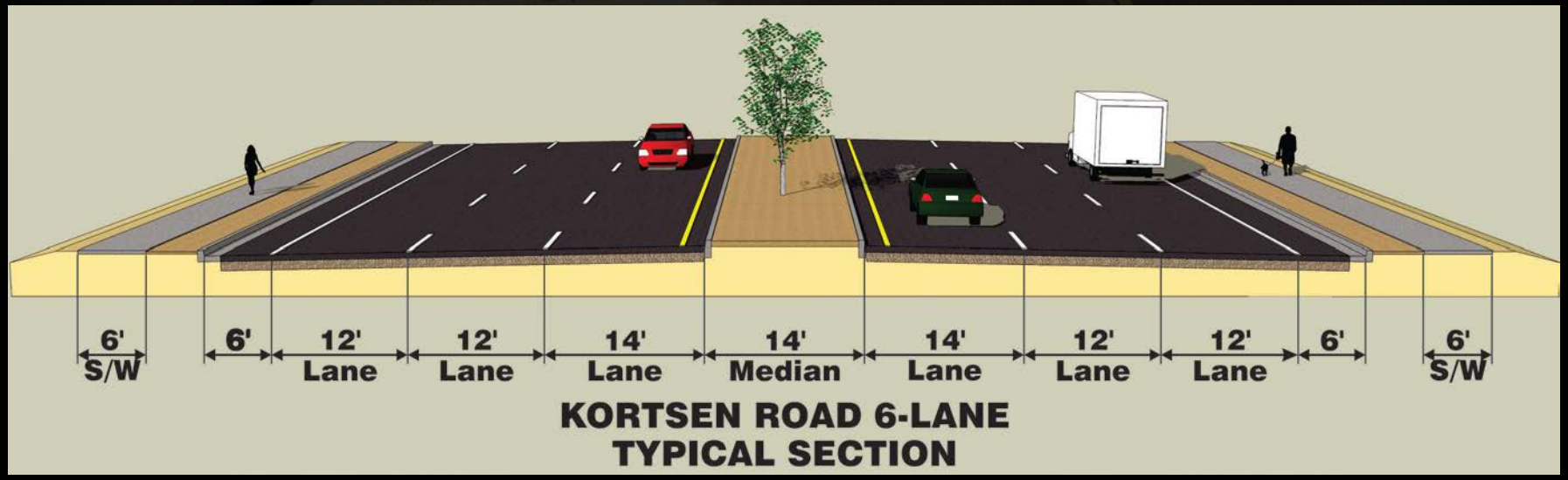
Recommended Alternative: Compressed Diamond with dual left turns

- Common interchange design
- Most future capacity
- Less right-of-way required
- Lower cost than most alternatives


Example of Compressed
Diamond Interchange

Crossroad Approach

- Kortsen roadway section:
  - 6-lane road with raised median
  - Access control
  - Relocate Arizola drainage canal



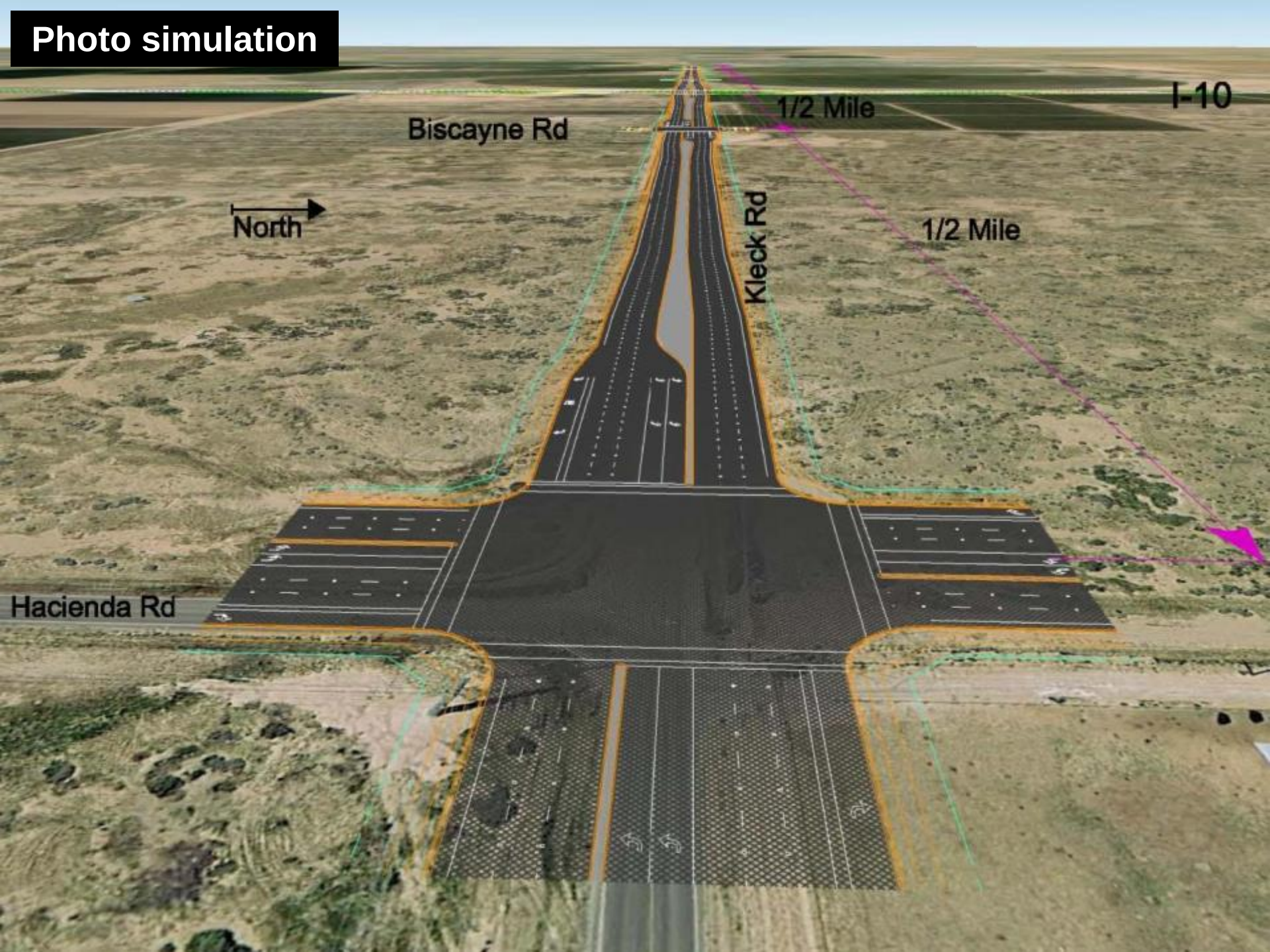


Photo simulation
Biscayne Rd
North
Kleck Rd
1/2 Mile
1/2 Mile
I-10
Hacienda Rd

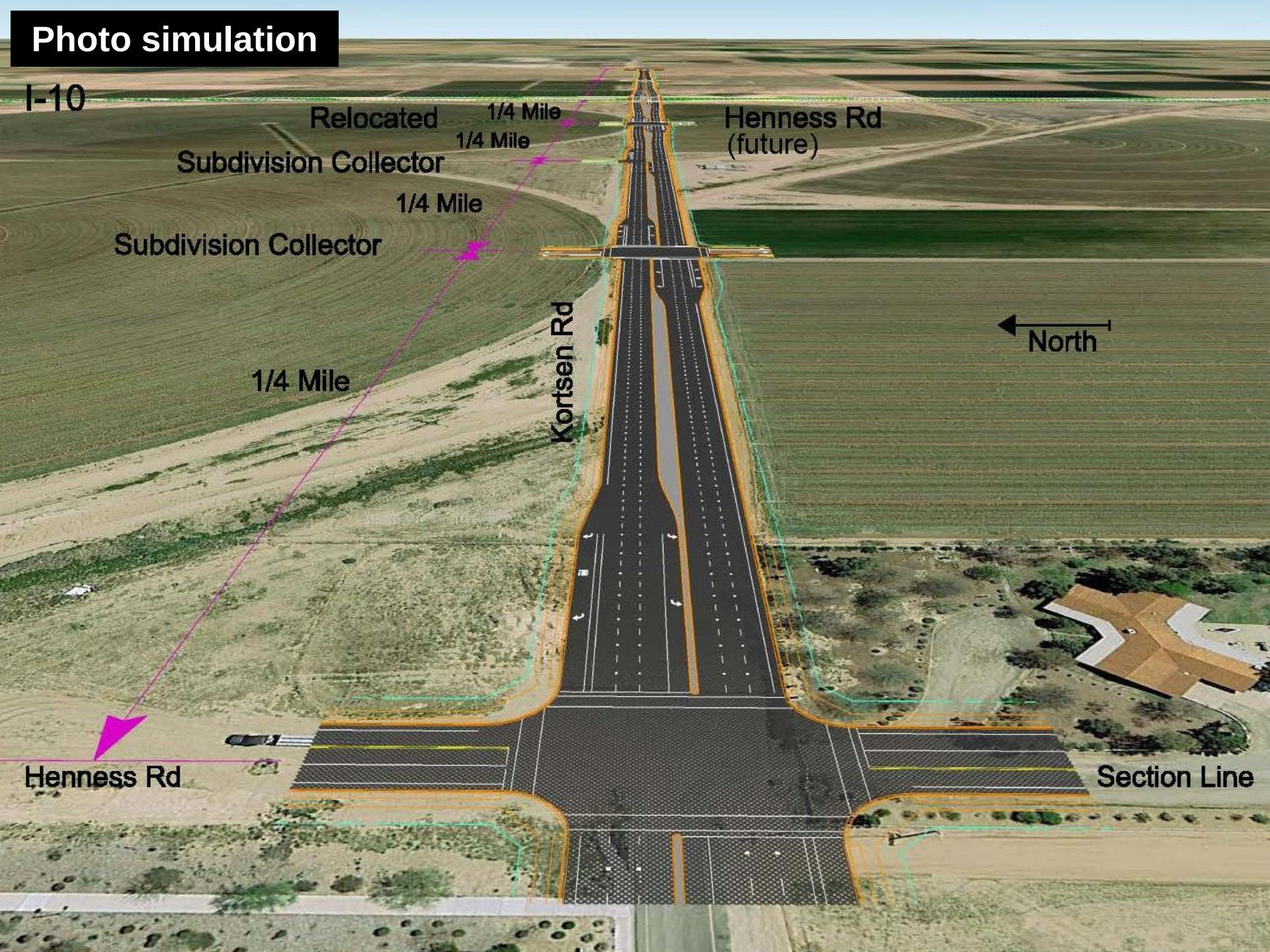
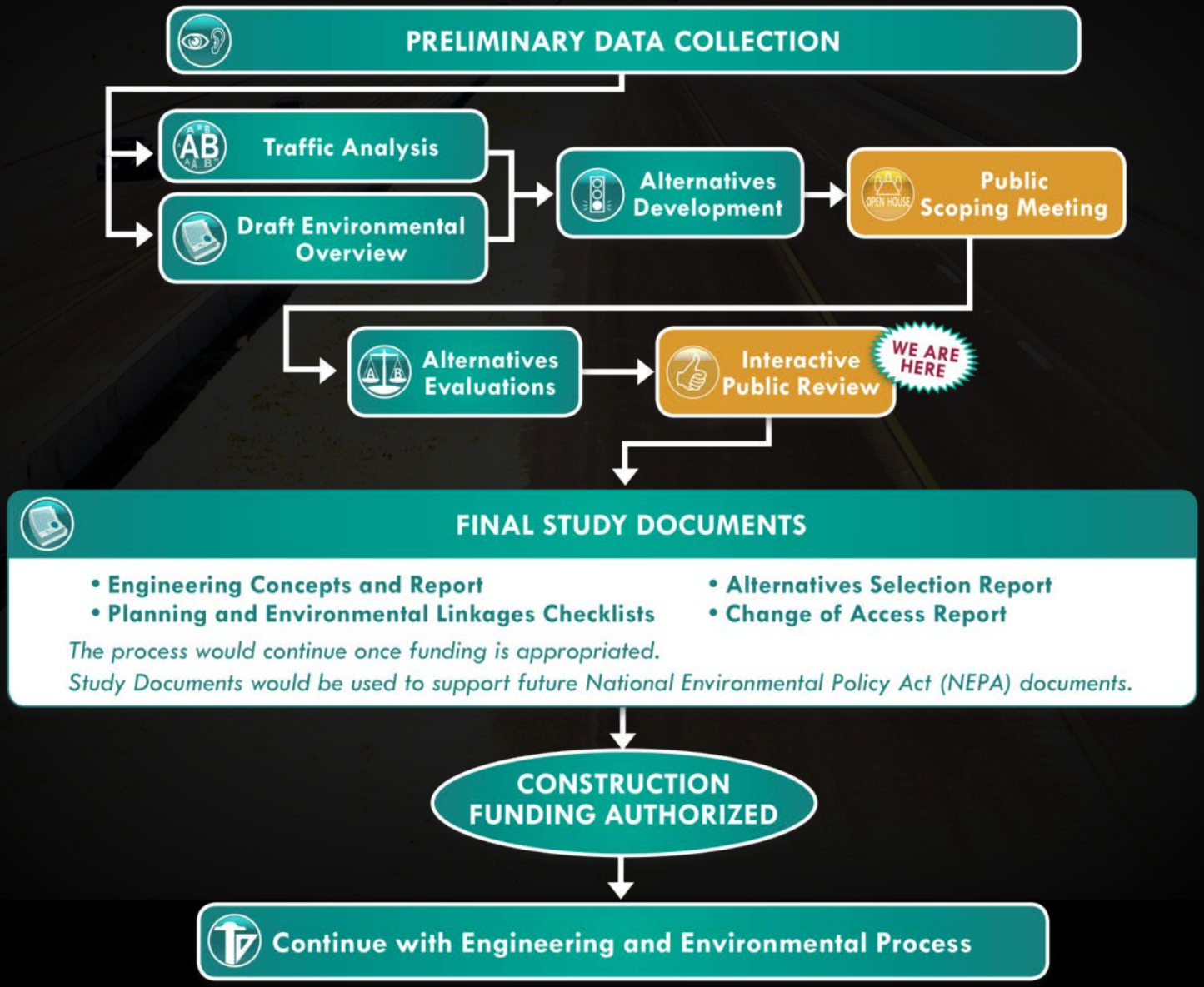


Photo simulation
I-10
Relocated
Subdivision Collector
1/4 Mile
1/4 Mile
1/4 Mile
Subdivision Collector
1/4 Mile
Kortsen Rd
Henness Rd
(future)
North
Henness Rd
Section Line

Process Overview



How You Can Participate

- Complete a comment form
- Submit written comments to:

  Alexandra Albert
  Jacobs Engineering Group Inc.
  101 N. 1st Avenue, Suite 2600
  Phoenix, AZ 85003

- E-mail comments to: alexandra.albert@jacobs.com
- Submit comments by February 28, 2015


Questions?
Thank you!