

# **Interstate 40 Bellemont to Winona Design Concept Report and Environmental Studies**

## **Public Information Meeting**

August 5, 2010  
Radisson Woodlands Hotel Flagstaff  
Grand Ballroom



# Welcome and Introductions

## Study Team Members

### **ADOT Roadway Predesign**

- Aszita Mansor

### **ADOT Environmental Planning Group**

- James Lemmon
- Fred Garcia

### **ADOT Flagstaff District**

- John Harper
- Audra Merrick
- George Wallace
- John Dalby

### **ADOT Communication and Community Partnerships**

- Mackenzie Nuño

### **Federal Highway Administration**

- Ken Davis
- Mary Frye
- Manuel Sanchez

### **Logan Simpson Design**

- Jessica Cheng
- Diane Simpson-Colebank

### **Stanley Consultants**

- Jackie Noblitt
- Alan Ferreira

### **HDR Engineering**

- Heather Honsberger



# Tonight's Topics

- Provide study overview
- Review study process
- Present proposed improvements and alternatives
- Present environmental status
- Review study schedule
- Gather public input



# ADOT's Role

- Conduct studies to identify and evaluate freeway alternatives
- Coordinate environmental review
- Acquire rights-of-way
- Design, construct and maintain freeway system



# Federal Highway Administration's Role

- Serve as lead federal agency
- Provide federal funding
- Participate in study process
- Provide engineering and environmental review
- Provide National Environmental Policy Act guidance
- Approve final documents



# Agencies' Role

- Be involved in the study
- Review documents in a timely manner
- **Provide your agencies' comments on the proposed alternatives**
- **Provide your agencies' additional concerns**
- Provide information related to your agencies' foreseeable future projects



# Your Role

- Ask questions
- Provide feedback
- Tell us
  - What is important to you?
  - What are your concerns?
  - What else do you need to know?



# Study Area



Study area was extended one mile west to milepost (MP) 183 after scoping meetings.



# Purpose and Need

- To increase capacity and improve traffic operations on Interstate 40 from Bellemont to Winona
- Growth and planned development will increase local, regional, and interstate traffic on I-40
- Future traffic volumes are anticipated to exceed existing roadway capacity



# Study Objectives

- Identify and prioritize potential projects for inclusion in future ADOT construction programs
- Identify roadway, bridge, and drainage improvements (documented in Design Concept Report)
- Assess and minimize environmental impacts
- Consider community and public land planning objectives
- Consider proposed I-40 improvements as a system



# Study Process

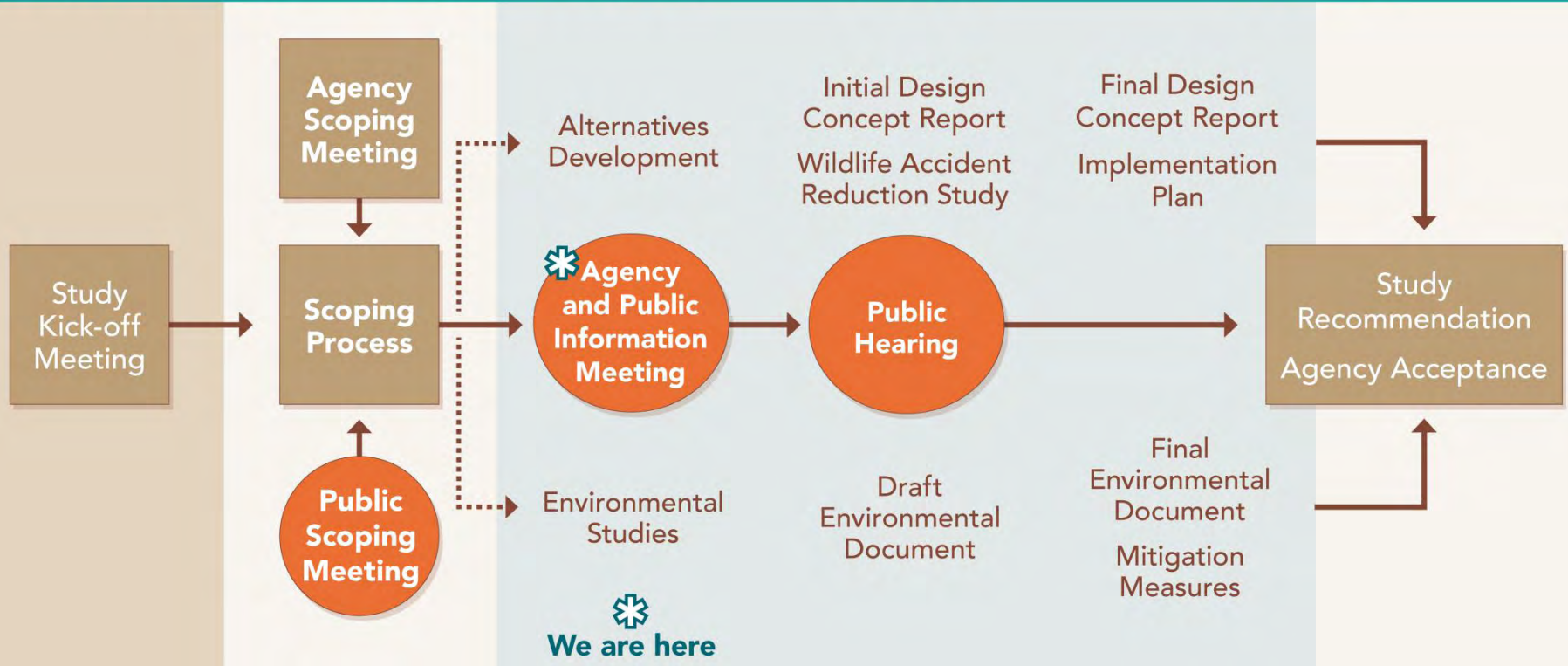
SPRING 2009

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# Results of Scoping Meetings

- Agency and public scoping meetings were held on July 14, 2009
  - Agency scoping meeting—34 attendees
  - Public scoping meeting—23 attendees
- After scoping meetings, study area was extended one mile west to milepost 183
- Concerns identified:
  - increasing truck and vehicular traffic
  - existing and future noise
  - wildlife-vehicle collisions
  - wildlife movement

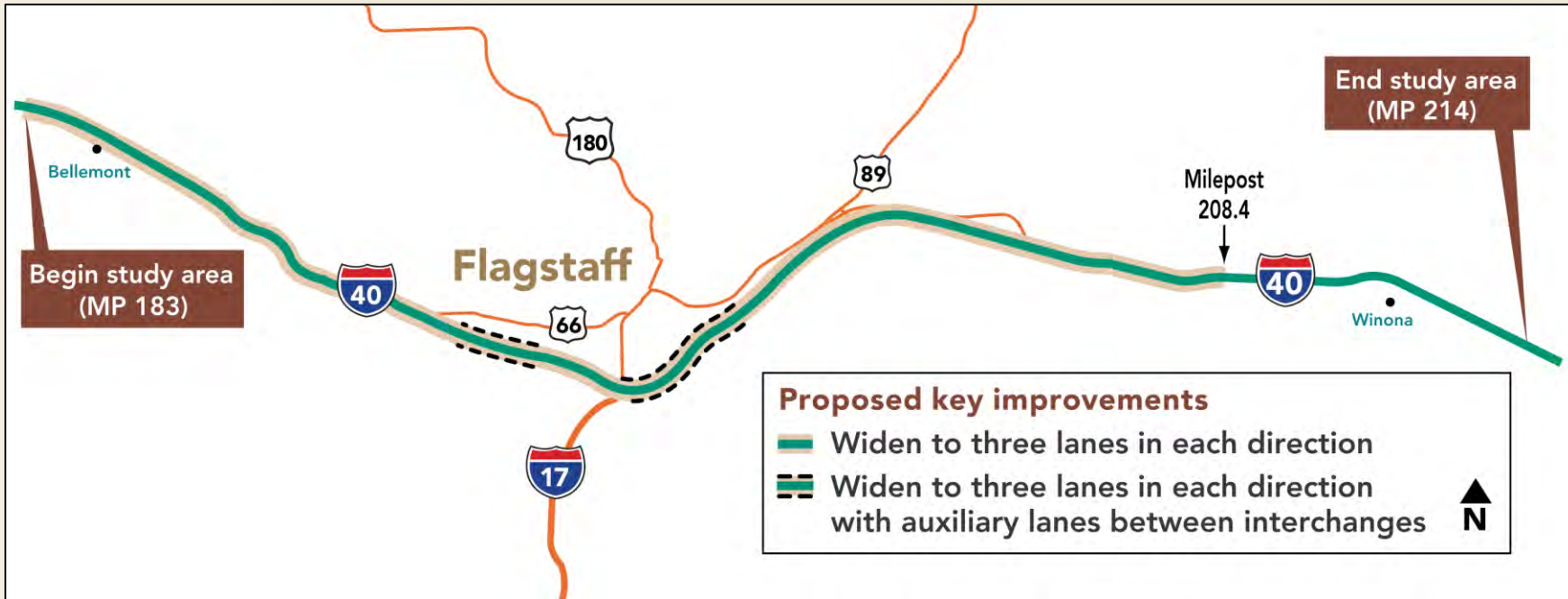


# Engineering Elements

- Traffic analyses
- Development of alternatives
- Roadway capacity and geometrics
- Interchanges
- Right-of-way and utilities
- Drainage
- Wildlife accident reduction study
- Implementation plan
- Other regional planning studies



# Additional Lane Locations



- Recommend three lanes in each direction from milepost 183.6 to 208.4
- Auxiliary lanes are defined as additional lanes on a freeway to connect an on-ramp and an off-ramp

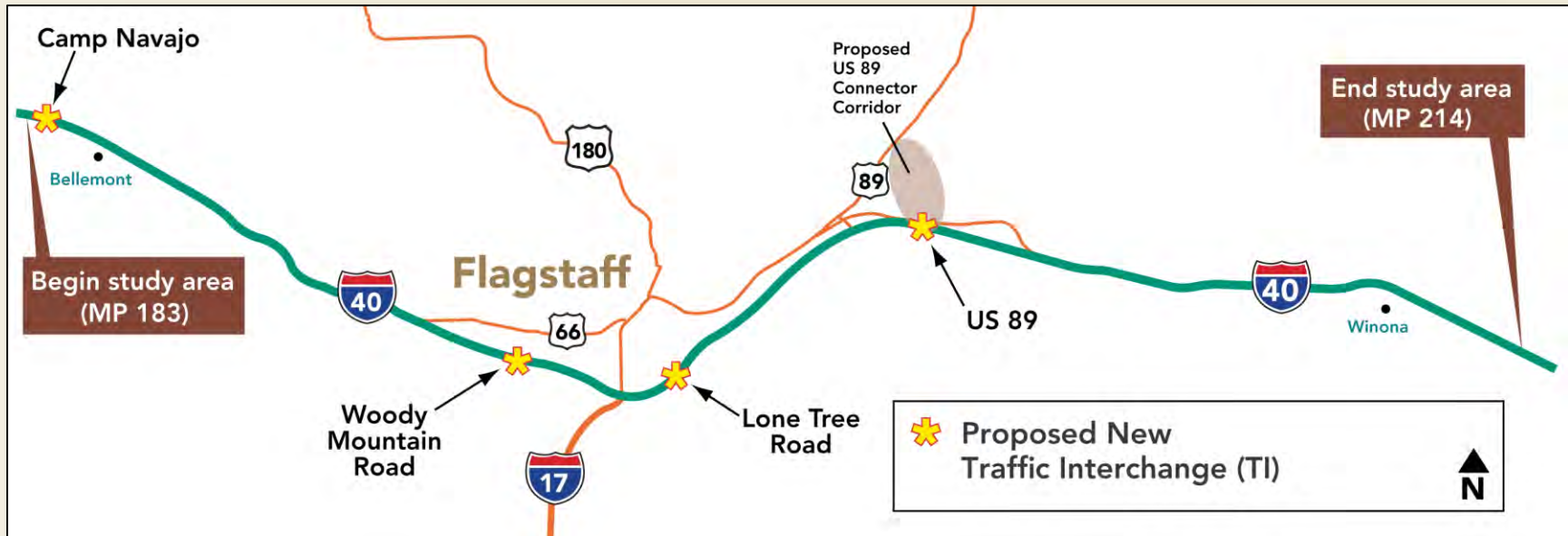


# Level of Service (LOS) Conditions

Location on I-40	Existing (based on 2008 data)	2040 No-Build Alt. (2 lanes)	2040 Build Alt. (3 lanes)
East and west of Flagstaff	A	C	B
In Flagstaff	B	F	D



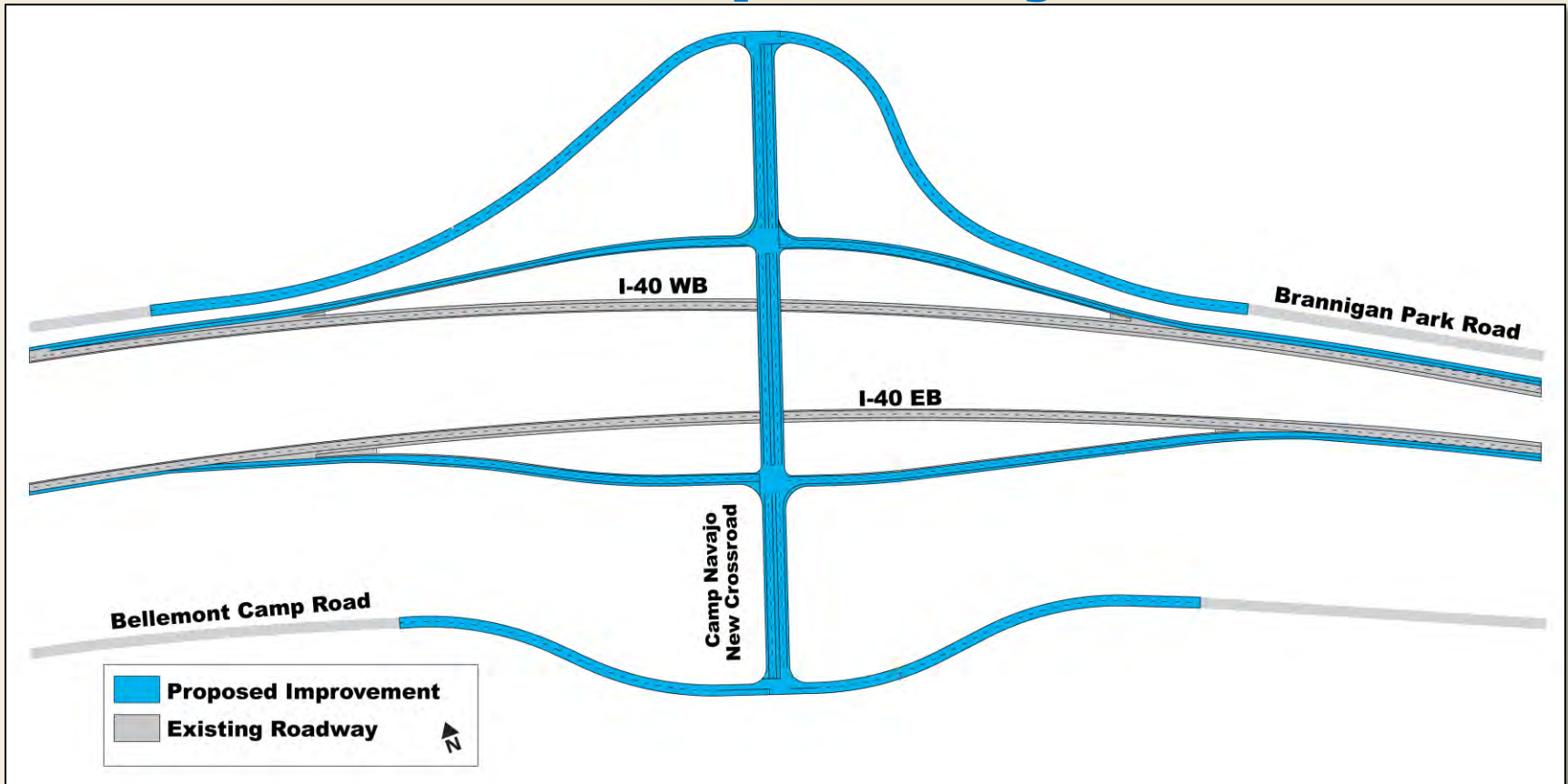
# Proposed New Traffic Interchange Locations



- Camp Navajo
- Woody Mountain Road
- Lone Tree Road
- US 89



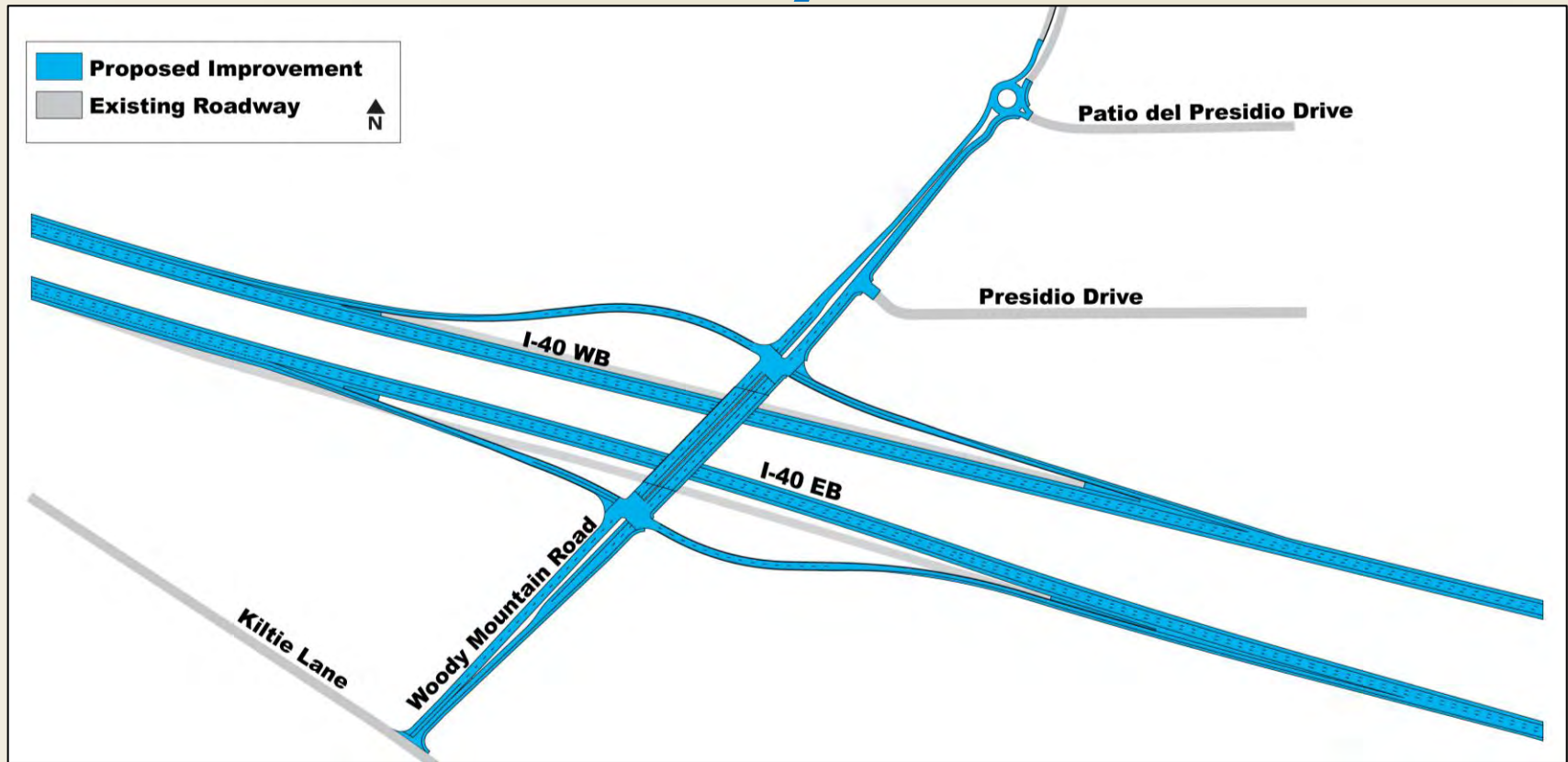
# Proposed New Traffic Interchange at MP 183 - Camp Navajo



## Diamond Configuration

- Potential new access to I-40
- Interchange configuration would be familiar to drivers

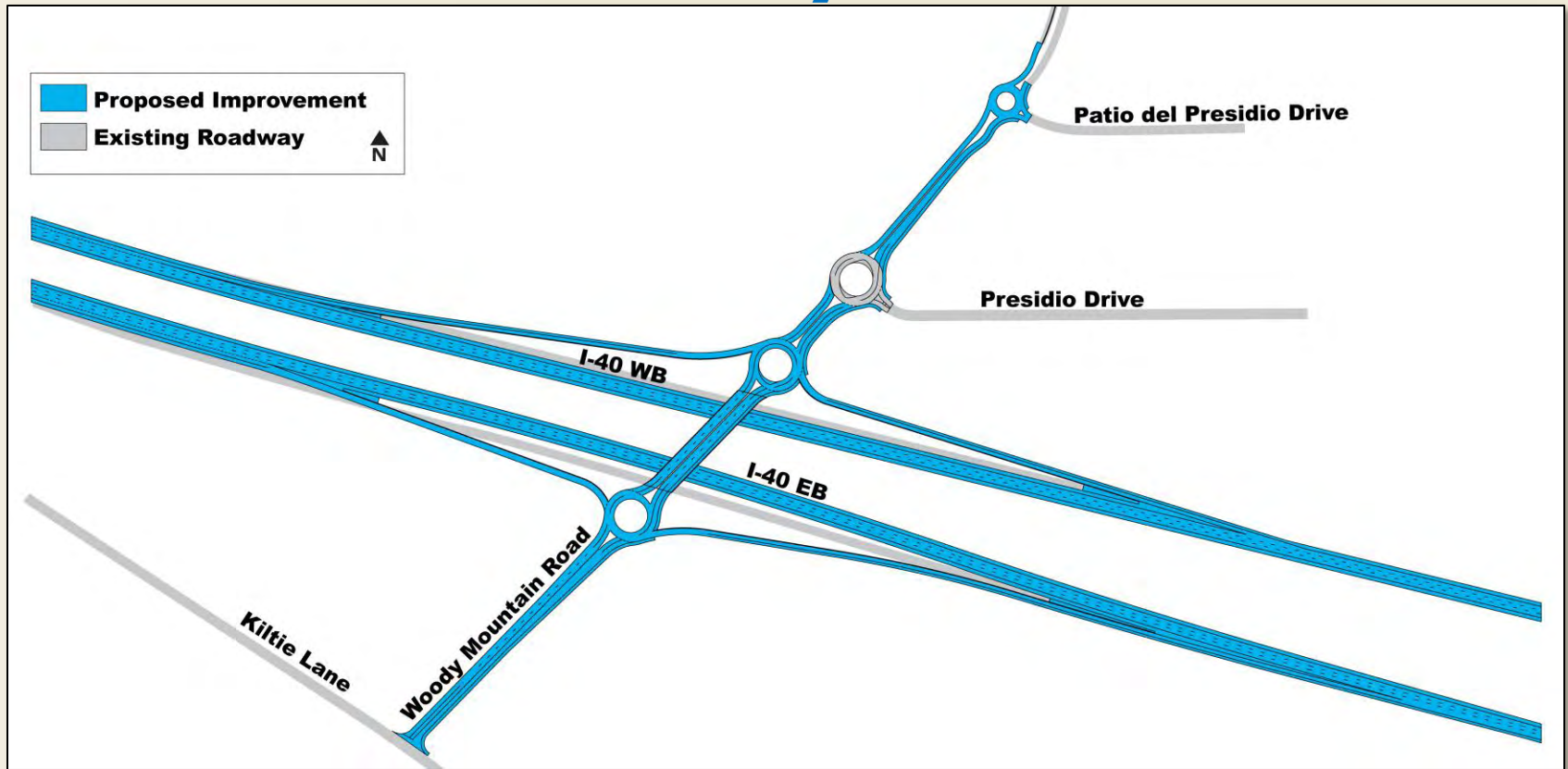
# Proposed New Traffic Interchange at MP 193 - Woody Mountain Road



## Diamond Alternative

- Interchange configuration would be familiar to drivers
- More right-of-way would be required
- Right-in/right-out at Presidio Drive

# Proposed New Traffic Interchange at MP 193 - Woody Mountain Road



## Roundabout Alternative

- Requires least amount of potential new right-of-way
- Narrower bridge proposed
- Reduced delay time at intersection

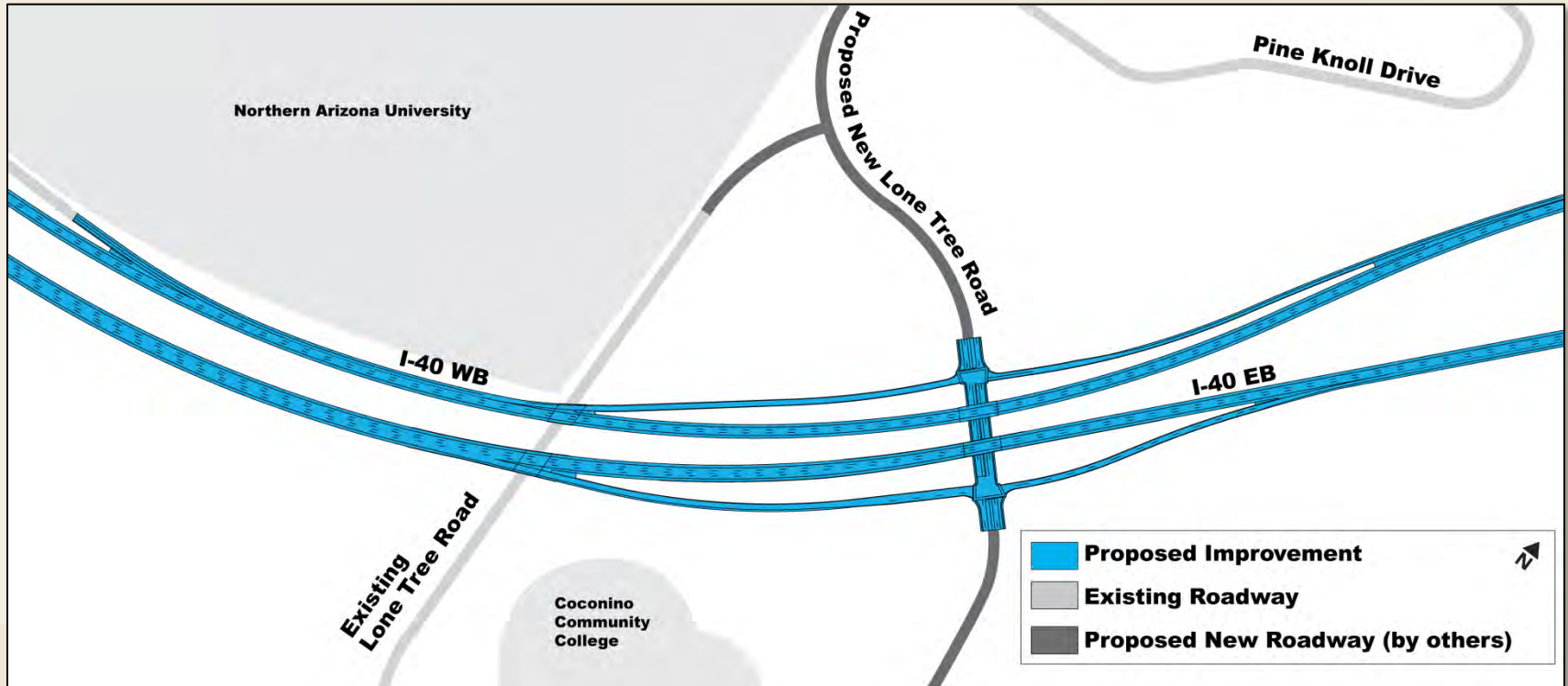
# Proposed New Traffic Interchange at MP 196 – Lone Tree Road



## Diamond Over I-40 Alternative

- Ramp grades would assist vehicle acceleration and deceleration
- Improved level of service versus Diamond Under Alt.

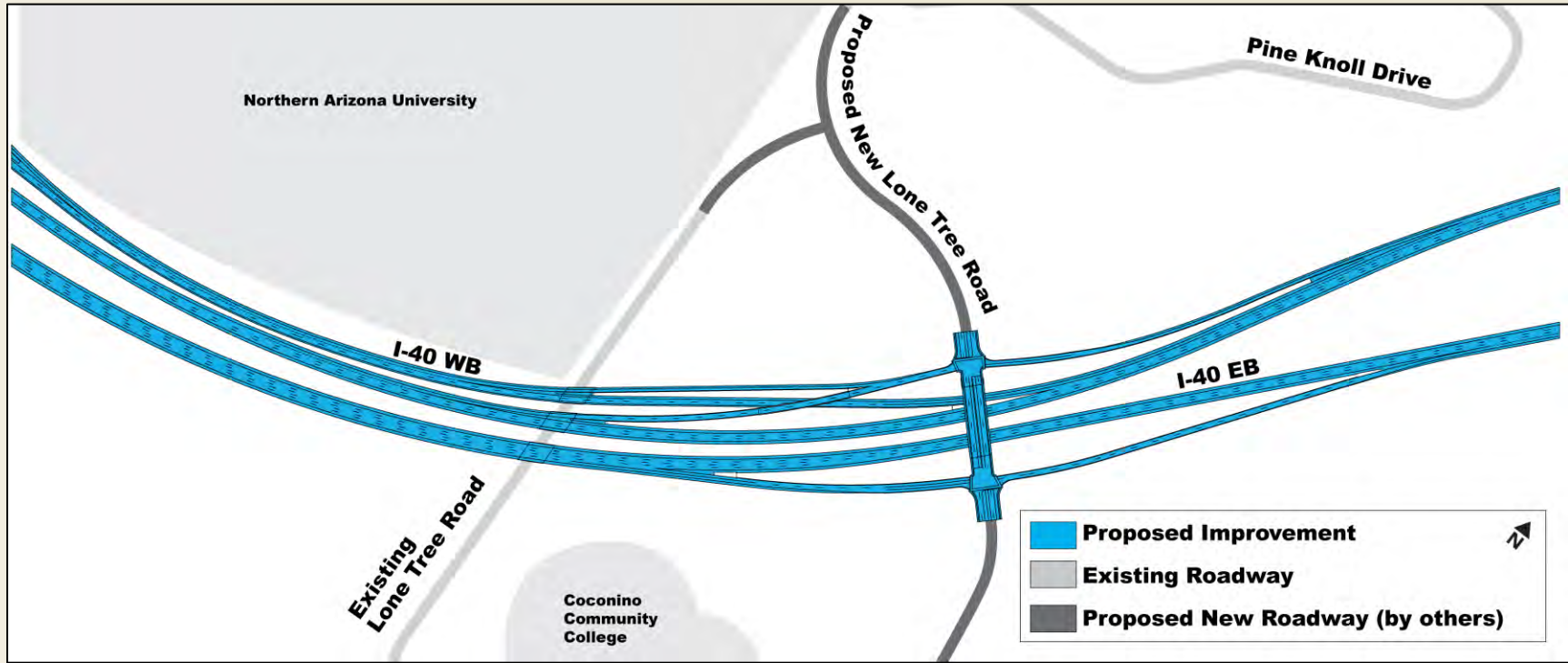
# Proposed New Traffic Interchange at MP 196 – Lone Tree Road



## Diamond Under I-40 Alternative

- Possible conflicts with westbound on-ramp in close proximity to I-17/I-40 off-ramp
- Level of service would drop to "E" in 2040

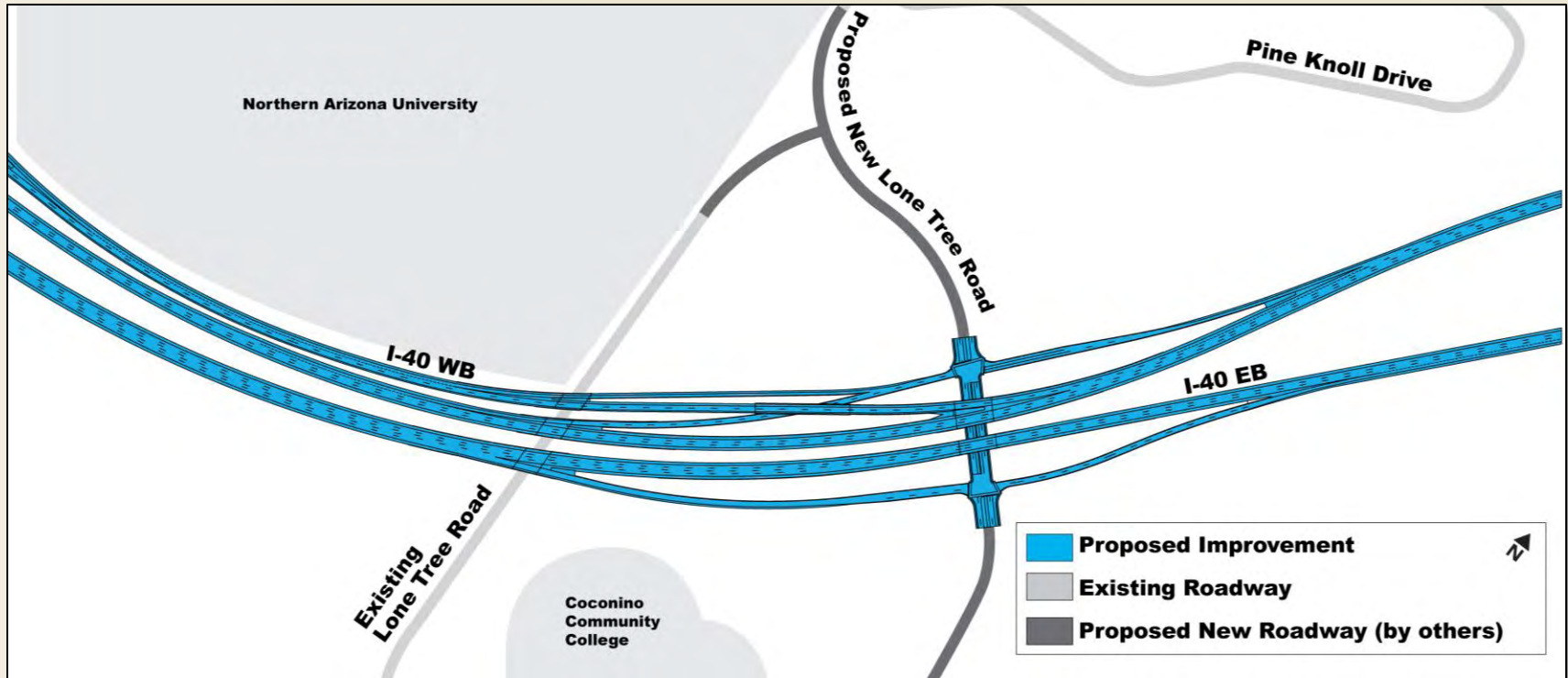
# Proposed New Traffic Interchange at MP 196 – Lone Tree Road



## Lone Tree Road Over I-40 – Braided Alt.

- Would provide improved level of service beyond 2040
- Traffic to I-17 or Milton Rd. would be separated from I-40 traffic
- Could be constructed in two phases

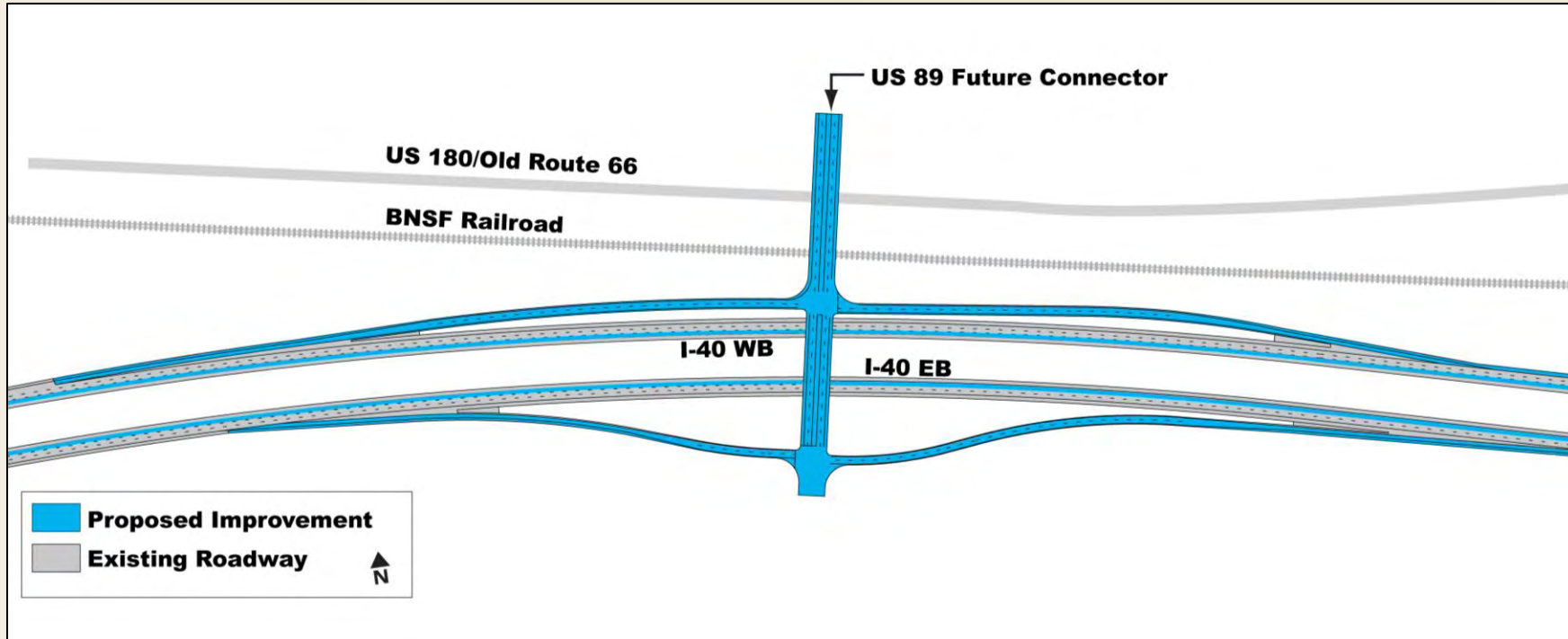
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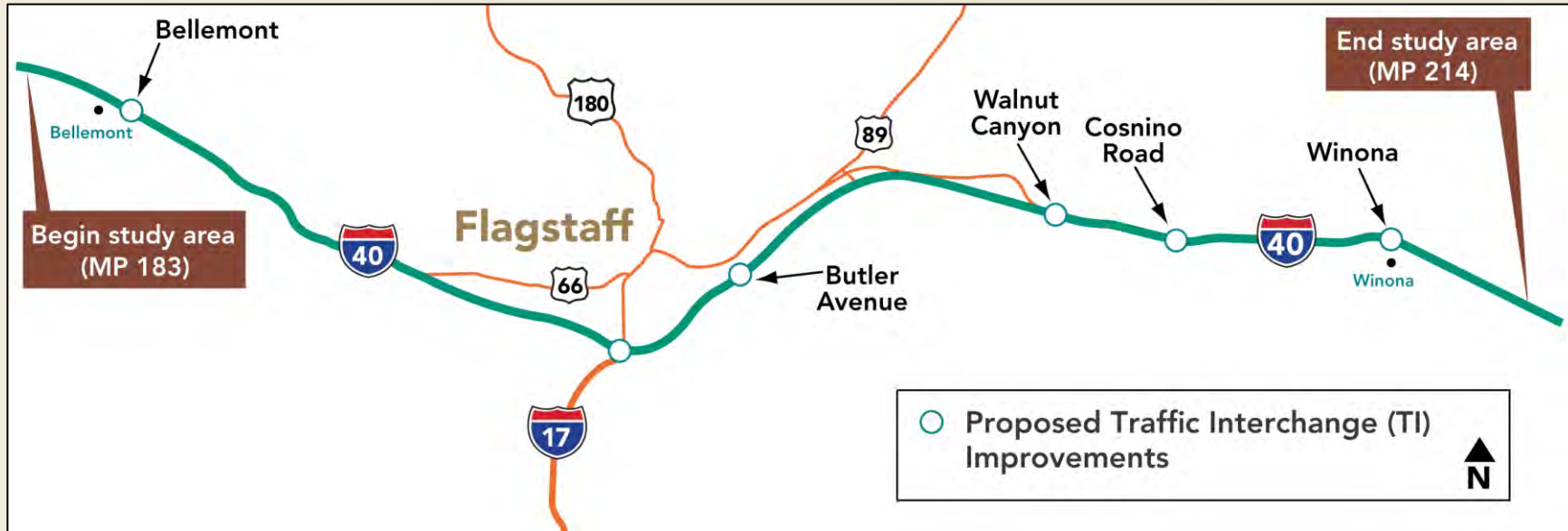
# Proposed New Traffic Interchange at MP 202 - US 89



## Diamond Configuration

- Interchange configuration is common throughout corridor
- Large crossroad and ramp structures proposed

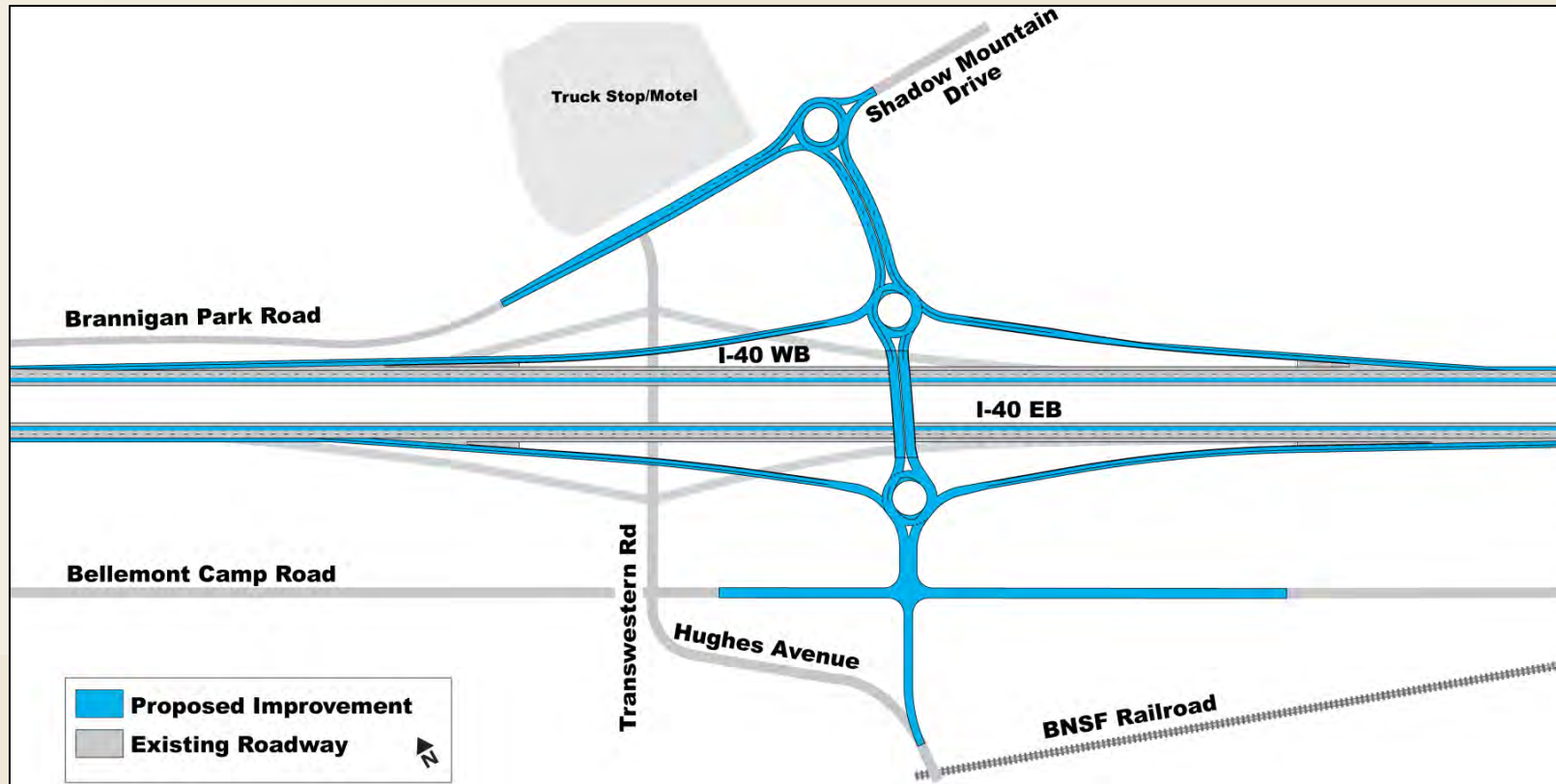
# Proposed modifications to existing traffic interchanges



- Belmont
- Butler Avenue
- Walnut Canyon
- Cosnino Road
- Winona



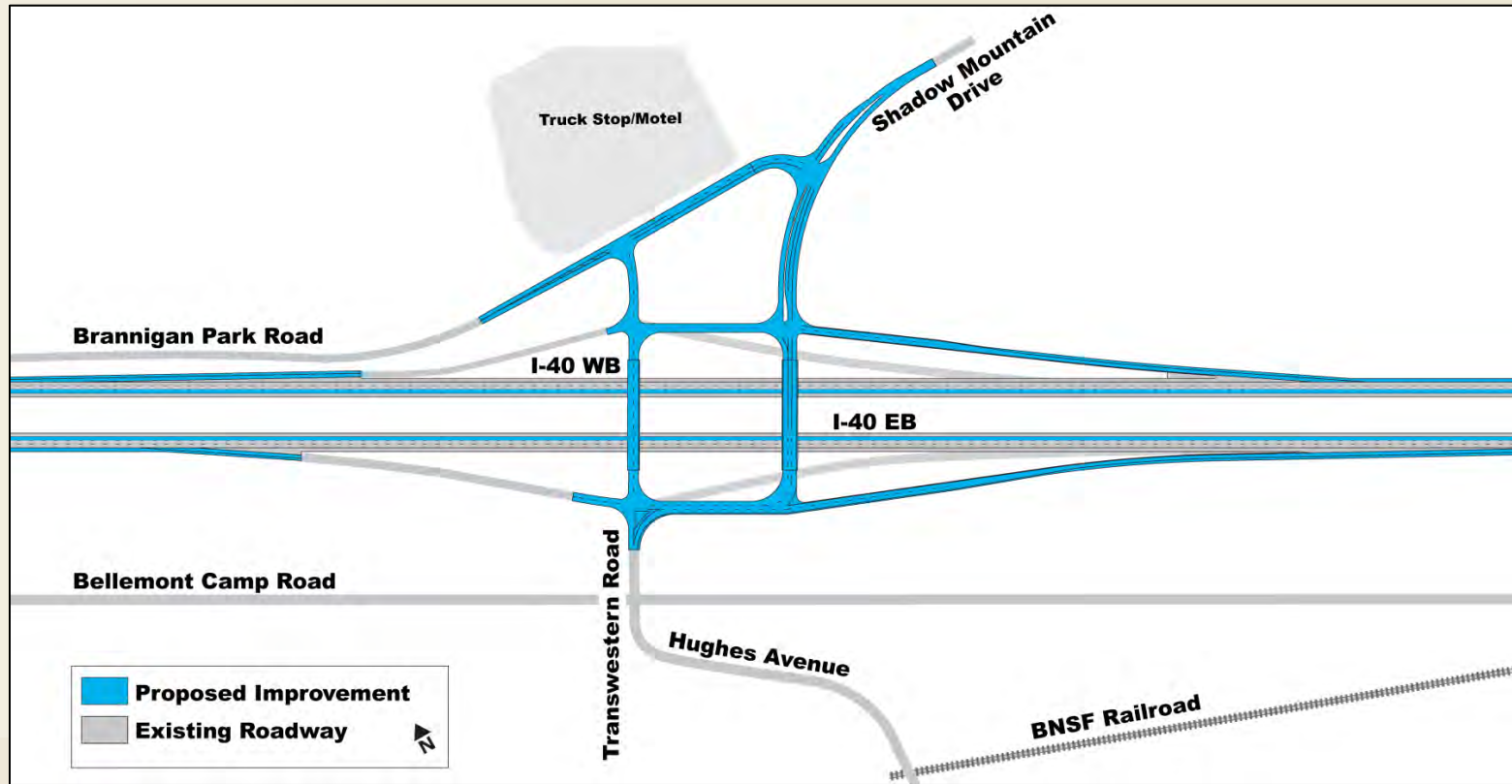
# Proposed Modifications to Existing Traffic Interchange at MP 185 - Bellemont



## Roundabout Alternative

- Would improve spacing between intersections
- Potentially reconstruct most of the interchange
- More right-of-way would be required

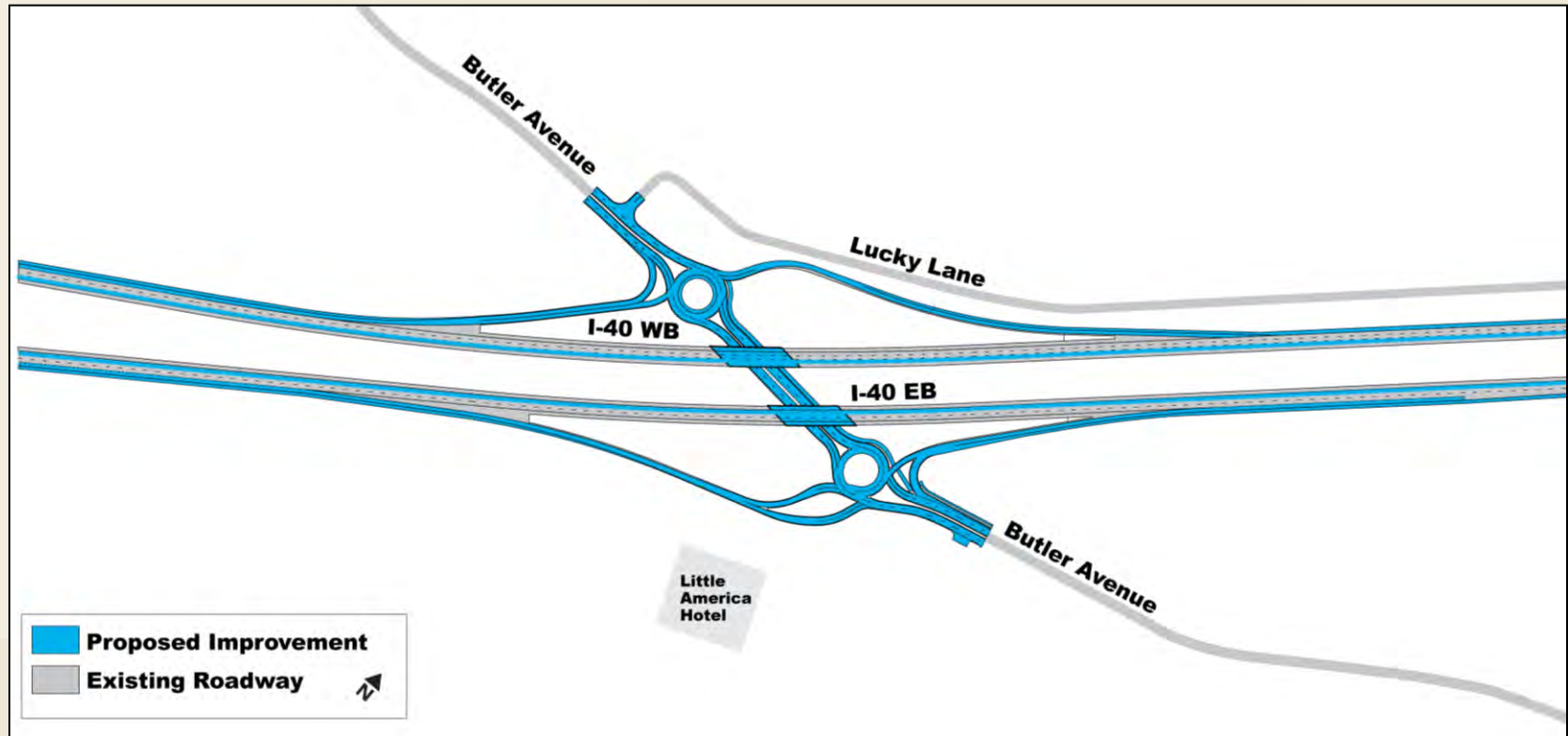
# Proposed Modifications to Existing Traffic Interchange at MP 185 - Bellemont



## Split Diamond Alternative

- Potentially confusing one-way movements
- Less right-of-way would be required
- Could be constructed in phases

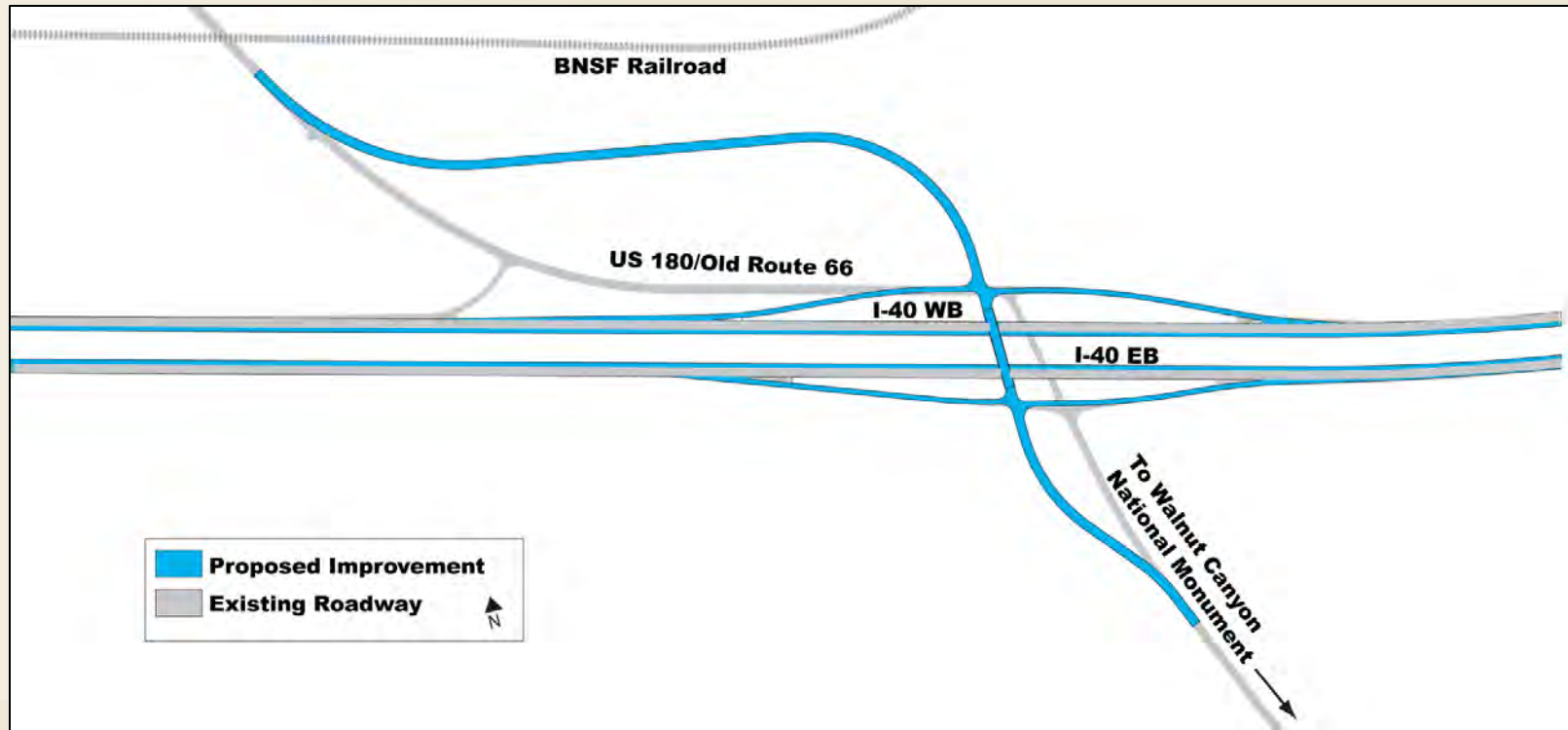
# Proposed Modifications to Existing Traffic Interchange at MP 198 – Butler Avenue



## Roundabout Configuration

- Consistent with City's proposed Butler Avenue improvements

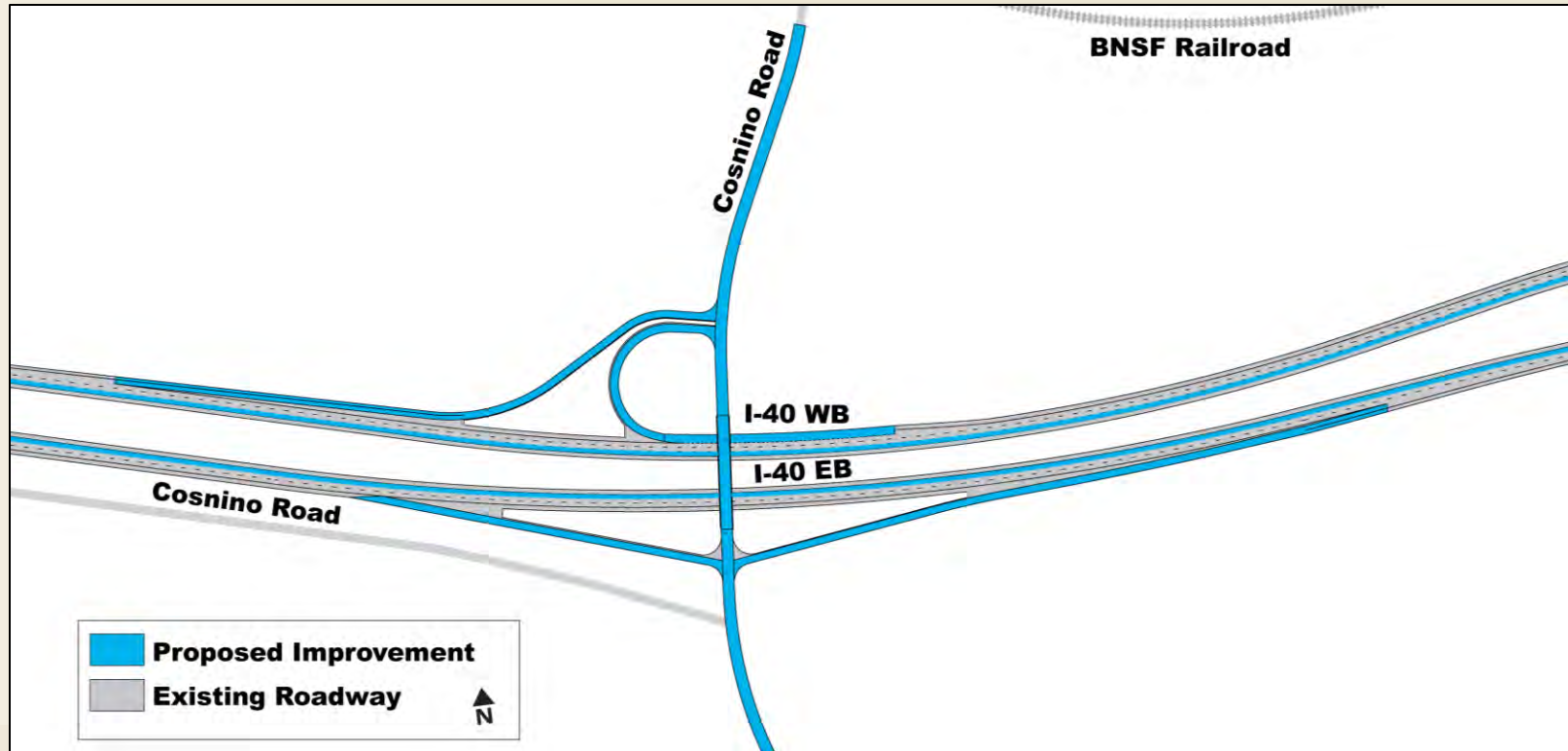
# Proposed Modifications to Existing Traffic Interchange at MP 205 - Walnut Canyon



## Diamond Configuration

- Conventional interchange would replace unusual crossroad and ramp configuration
- Extensive crossroad realignment would be required

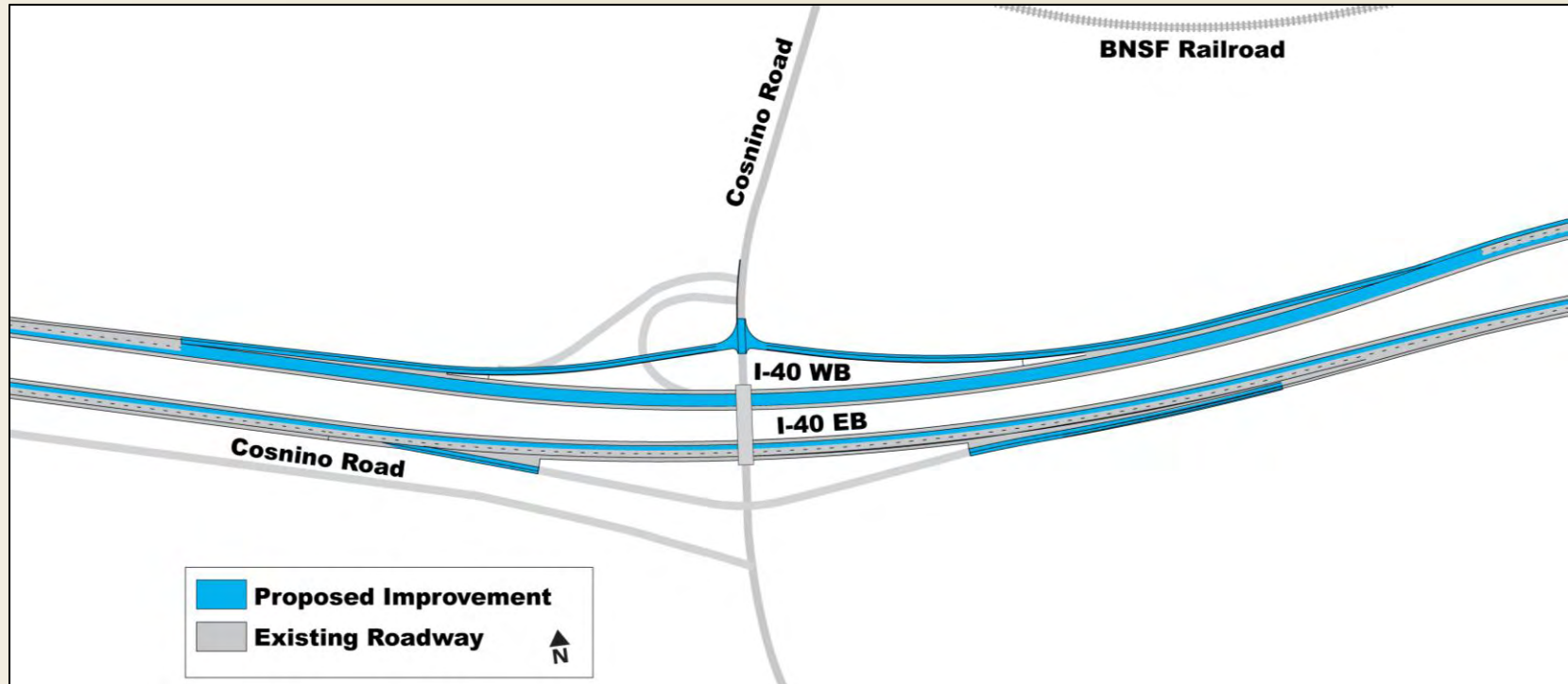
# Proposed Modifications to Existing Traffic Interchange at MP 207 - Cosnino Road



## Loop Alternative

- New crossroad bridge would allow for new lane on I-40
- Loop ramp would remain
- Extensive crossroad reconstruction would be required

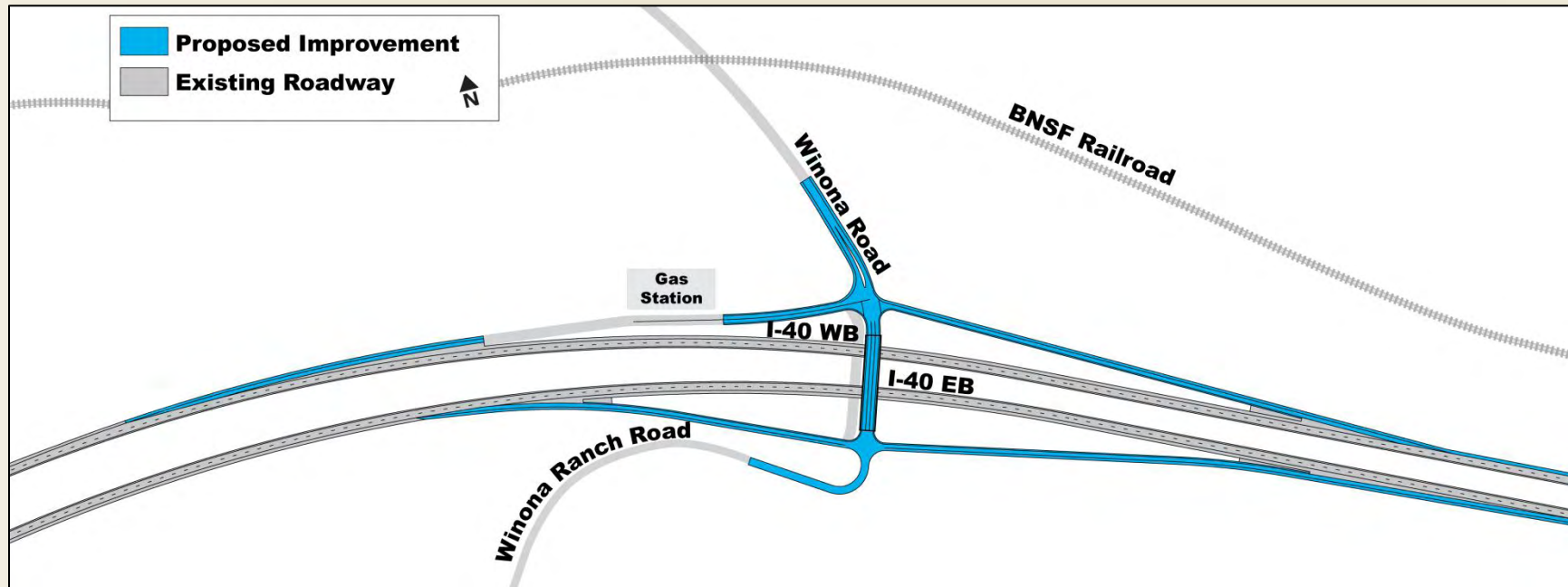
# Proposed Modifications to Existing Traffic Interchange at MP 207 - Cosnino Road



## Diamond Alternative

- Bridge over I-40 would remain
- Reconstruct ramps on north side
- Reconstruct/lower westbound I-40 to increase vertical clearance

# Proposed Modifications to Existing Traffic Interchange at MP 211 – Winona



## Diamond Alternative

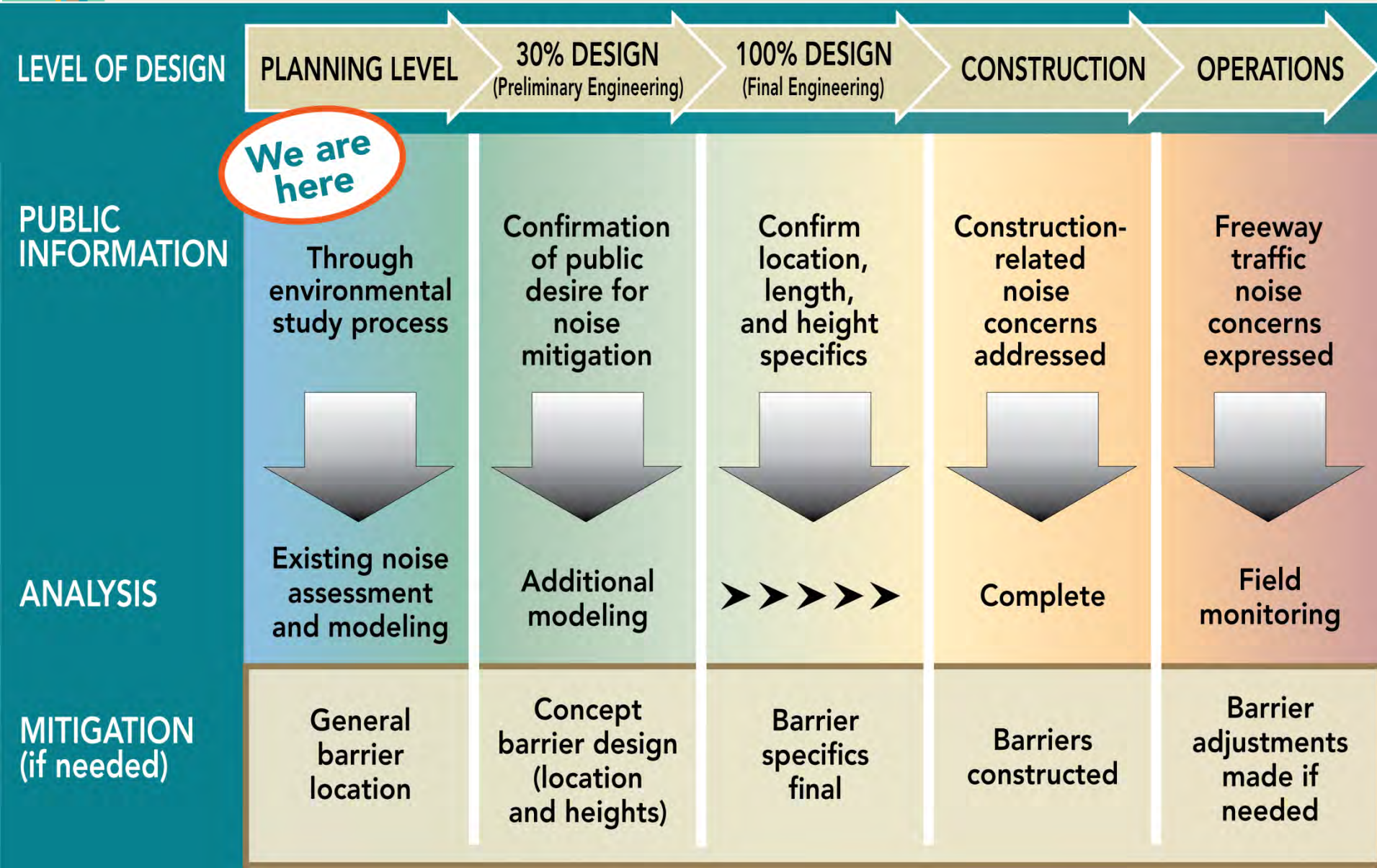
- Replace bridge to improve vertical clearance and load capacity
- No change to business access

# Environmental Studies

- Social Considerations
- Economic Considerations
- Land Use
- Water Resources
- Hazardous Materials
- Habitat Connectivity
- Elk Movement
- Air Quality
- Cultural Resources
- Recreation
- Flagstaff Urban Trail System (FUTS) crossings
- Biological Resources
- Visual Resources
- Noise



# ADOT's Noise Process



# Existing Noise Assessment Locations



# Study Schedule

SPRING 2009

SUMMER 2009

2009-2010

FALL 2010

EARLY 2011



# Questions and Comments



# Public Contact Information

Submit comments or questions to:

Mail: Arizona Department of Transportation  
c/o Ami Brogan  
HDR Engineering, Inc.  
3200 East Camelback Road, Suite 350  
Phoenix, AZ 85018

Phone: 602.522.7768

FAX: 602.522.7707

E-mail: [ami.brogan@hdrinc.com](mailto:ami.brogan@hdrinc.com)

**Comments are requested  
by August 19, 2010**



# Thank You!

[www.azdot.gov/I40studyflagstaff](http://www.azdot.gov/I40studyflagstaff)

