

91 Freeway

# MCKINLEY GRADE SEPARATION PROJECT AWARD OF DESIGN CONTRACT JULY 18, 2018



# Brief History

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<b>03/15/2006</b>	<b>Council Meeting</b>	TUMF Agreement
<b>09/26/2007</b>	<b>Study Session</b>	Four Alternatives Reviewed
<b>03/17/2010</b>	<b>Council Meeting</b>	TUMF Amendment 1
<b>01/19/2011</b>	<b>Council Meeting</b>	Appropriate \$2.2 million
<b>10/16/2013</b>	<b>Council Meeting</b>	TUMF Amendment 2
<b>10/21/2015</b>	<b>Council Meeting</b>	appropriate \$2.4 million
<b>11/16/2016</b>	<b>Council Meeting</b>	revise budget to \$5.04 million
<b>04/28/2017</b>	<b>SB 132 allocates \$84.45 million for McKinley GS</b>	
<b>06/28/2017</b>	<b>Study Session</b>	Discussion
<b>08/02/2017</b>	<b>Council Meeting</b>	De-obligate \$400k Fed funds
<b>11/28/2017</b>	<b>Study Session</b>	Discussion
<b>02/28/2018</b>	<b>Study Session</b>	Discussion

# Request for Proposals – Design Services

**April 25, 2018      Advertise in Sentinel Weekly News**

**May 18, 2018      Proposals Due**

Proposals received from:

- Biggs Cardosa Associates, Inc.
- IDC Consulting Engineers, Inc.
- T.Y. LIN International

**June 4, 2018      Evaluation of Proposals Complete:**

- Linda Bazmi, Senior Engineer/Project Manager – City of Corona Dept. of Public Works
- Du Lu, Branch Chief, Design Oversight – Caltrans, District 8
- James Shankel, Senior Environmental Planner, Branch Chief, Environmental Studies – Caltrans, District 8
- Khalid Nasim, Engineering Division Mgr – Transportation Dept., County of Riverside
- Peter Ramey, Project Manager – Wallace & Associates Consulting, Inc.
- Dennis Ralls, Public Works Program Manager – City of Corona Dept. of Public Works

**June 11, 2018      Consultant Selection Interviews**

**June 13, 2018      Negotiate Contract with Selected Firm**



1 inch = 70 feet



# Specific Challenges Noted

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- ☐ Timeline to complete design, utilities, right-of-way & construction by June 2023
- ☐ Right-of-way necessary for bridge and connector route to Sampson Avenue
- ☐ McKinley heavily traveled - must maintain traffic flow during construction
- ☐ Maintaining access to local businesses during construction
- ☐ High volume of trains – must maintain clear tracks & close coordination w/BNSF
- ☐ BNSF review of design and approval process
- ☐ Caltrans right-of-way challenges, review & approval process
- ☐ Provide full access to local businesses upon completion of project
- ☐ Multiple Utilities required to be relocated
- ☐ Modifications to Arlington Channel or reinforcing existing channel walls
- ☐ Riverside County Flood Control & Water Conservation District review process



# Biggs Cardosa Associates Proposal

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- ☐ **Provided 4 Connector Road Alternatives to minimize property acquisition**
  - ☐ One option avoids all buildings in Los Arcos Plaza by modifying Caltrans access
- ☐ **Propose smaller profile of bridge to reduce deck thickness & lower height**
- ☐ **Provide direct S/B access to Sampson Avenue for efficient traffic circulation**
- ☐ **No impact to Arlington Channel, eases approval from RCFC&WCD**
- ☐ **Bridge & support structures span entire length over channel and BNSF ROW**
- ☐ **Eliminates requirements for 401, 402, 1600 & 1602 Permits**
- ☐ **Eases BNSF review of design and approval process**
- ☐ **Leaves existing bridge in place so no need to relocate existing utilities**
  - ☐ Provides access for BNSF for maintenance of their facilities
- ☐ **Reduces impact during construction**
  - ☐ Allows those utilities that need to be relocated to start while bridge is built off site
  - ☐ Bridge constructed off-site & moved into place over weekend, reduce impact on businesses
- ☐ **Completion of project approximately 6 months prior to June 30, 2023 deadline**
- ☐ **Anticipate completing entire project under budget**



# Proposed McKinley Bridge

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BIGGS CARDOSA  
ASSOCIATES INC  
**BCA**

**McKinley Street** Grade Separation

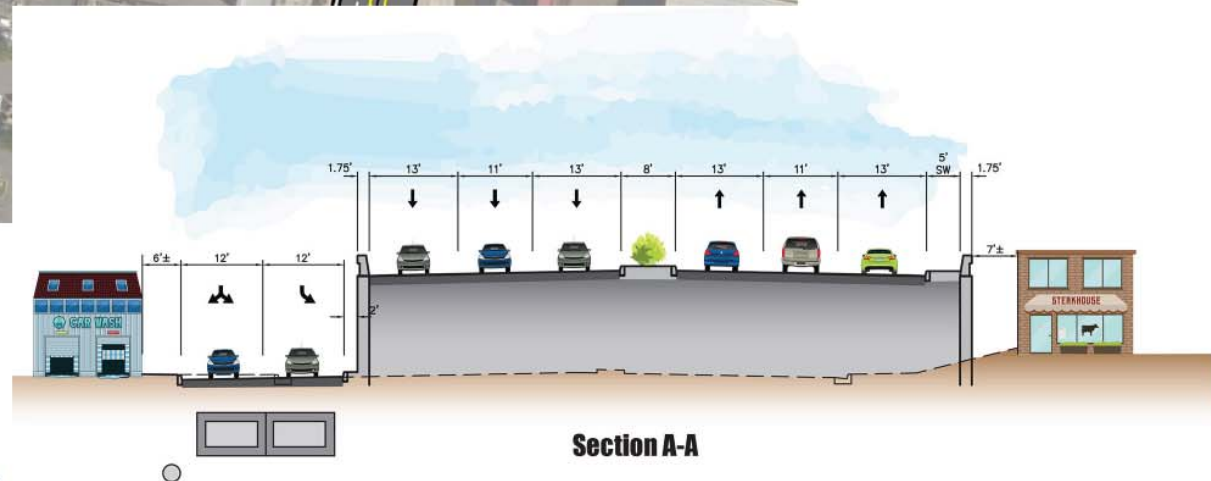
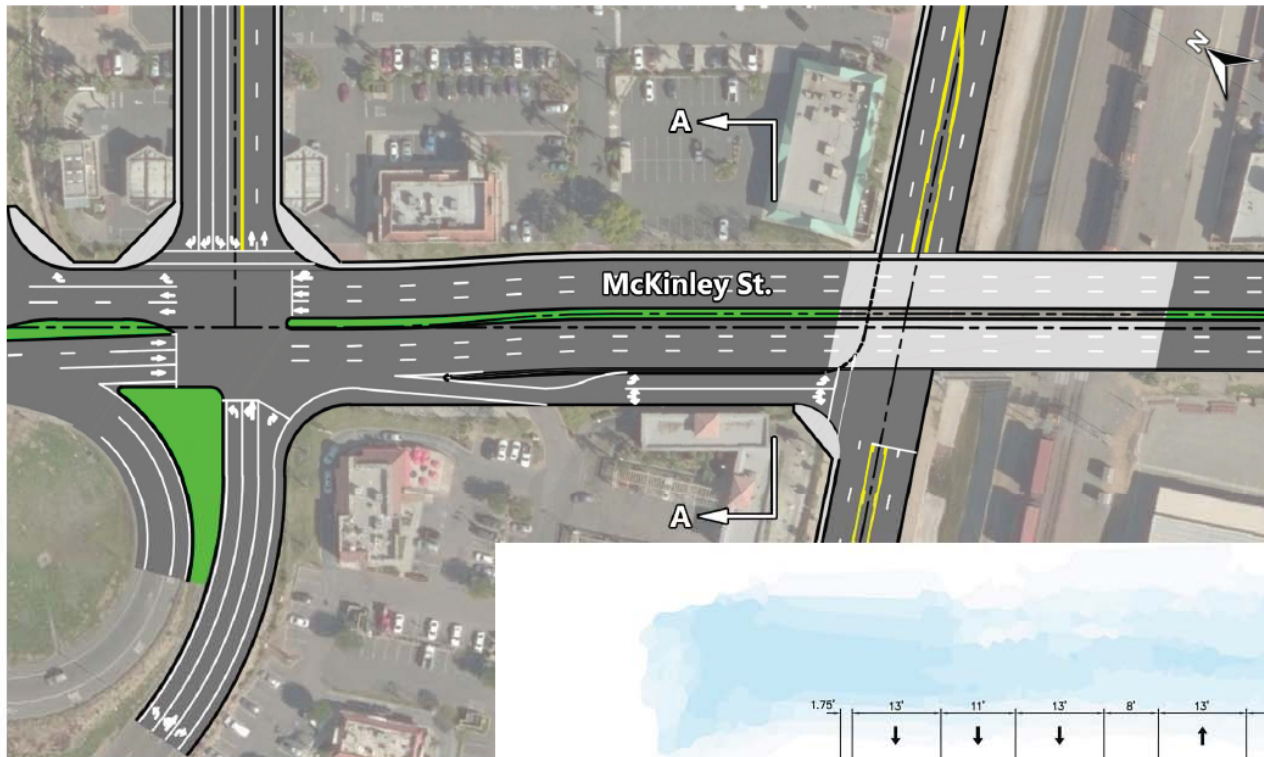


**MCKINLEY STREET OVERPASS**



# Cross Section at Sampson Avenue

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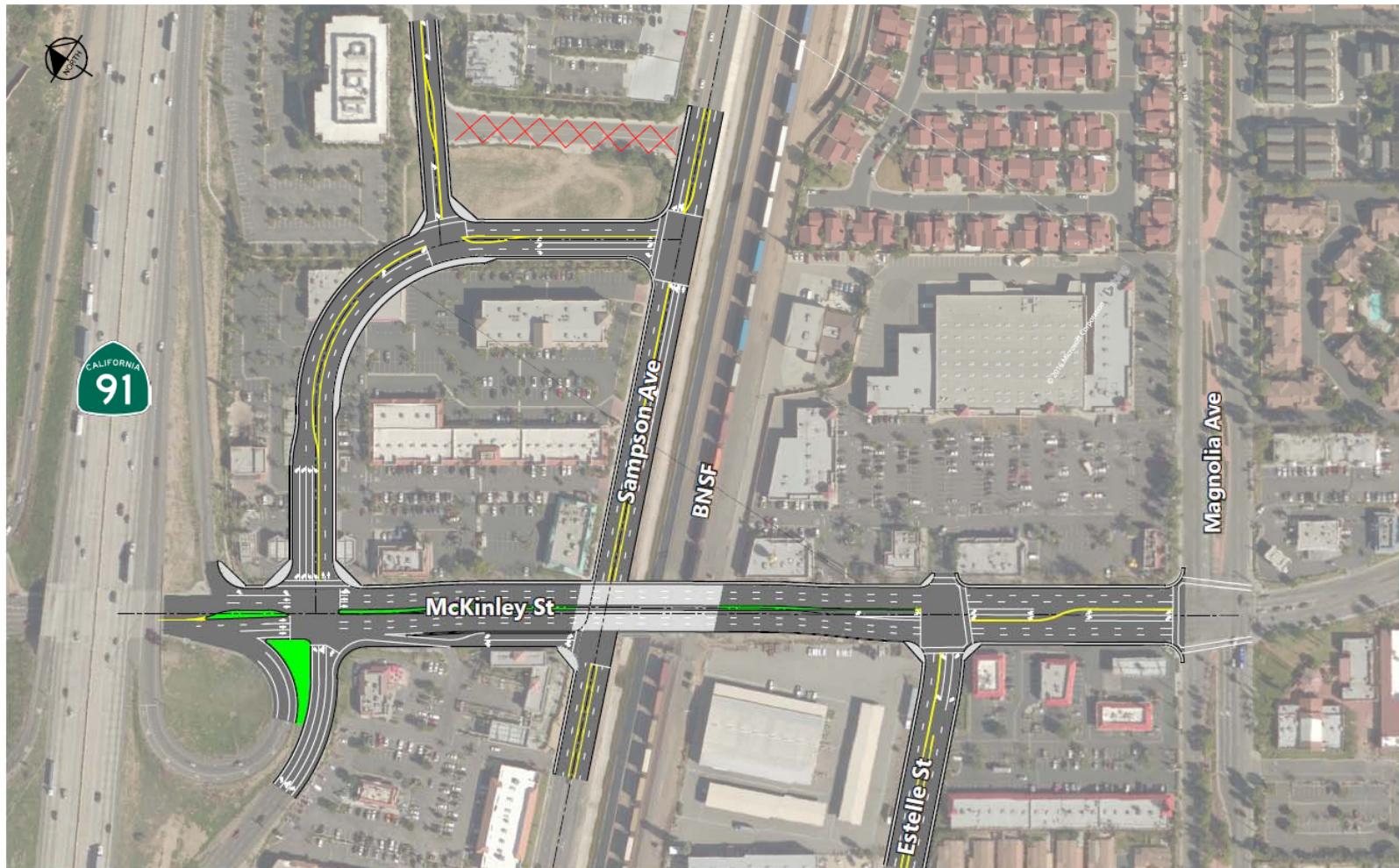
MCKINLEY STREET SIDE RAMP



# Connector Road Option 1 – Outside Loop

BIGGS CARDOSA  
ASSOCIATES INC  
**BCA**

**McKinley Street** Grade Separation



**OUTSIDE LOOP OPTION**



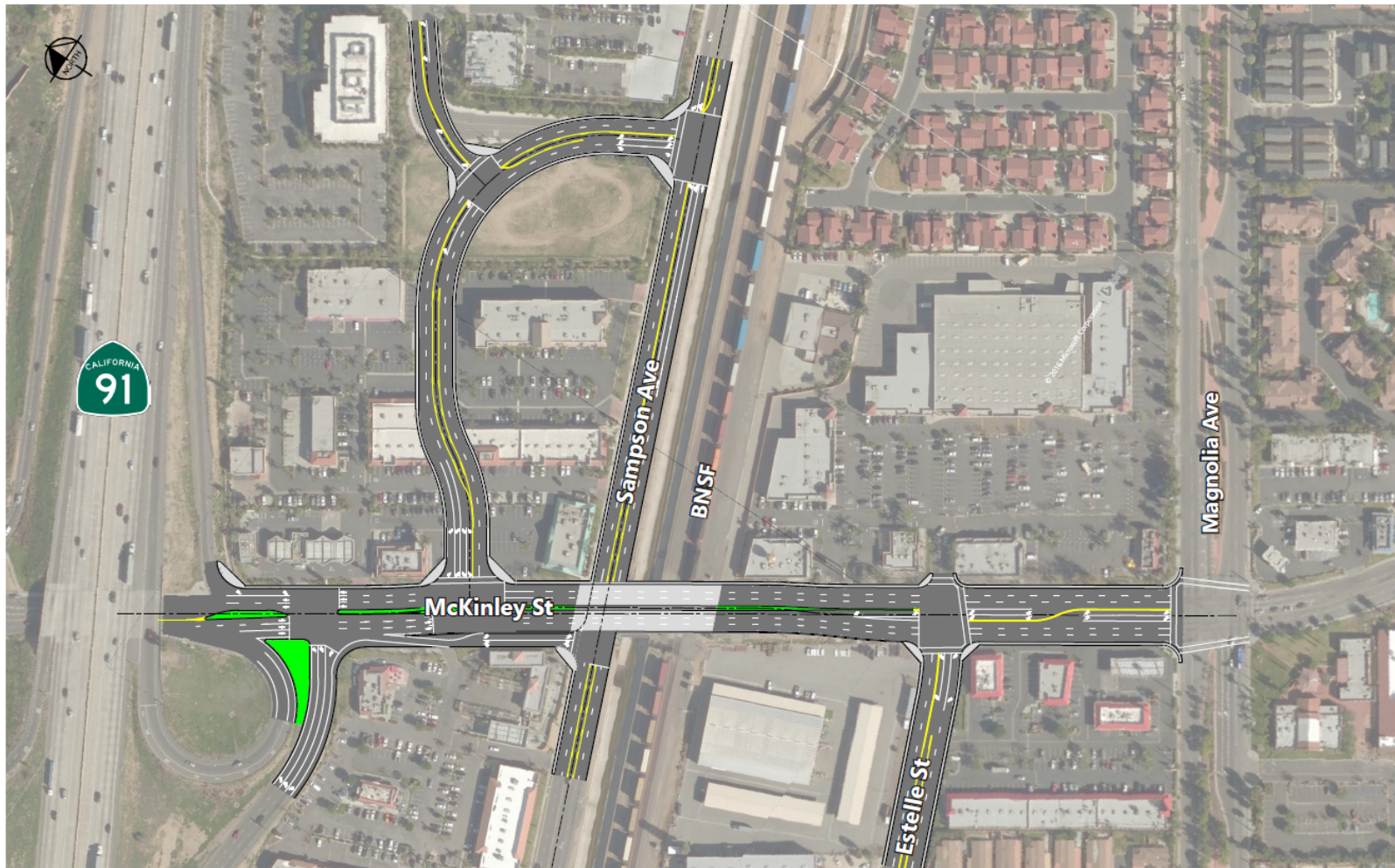
# Connector Road Option 2 – Inside Loop



INSIDE LOOP OPTION



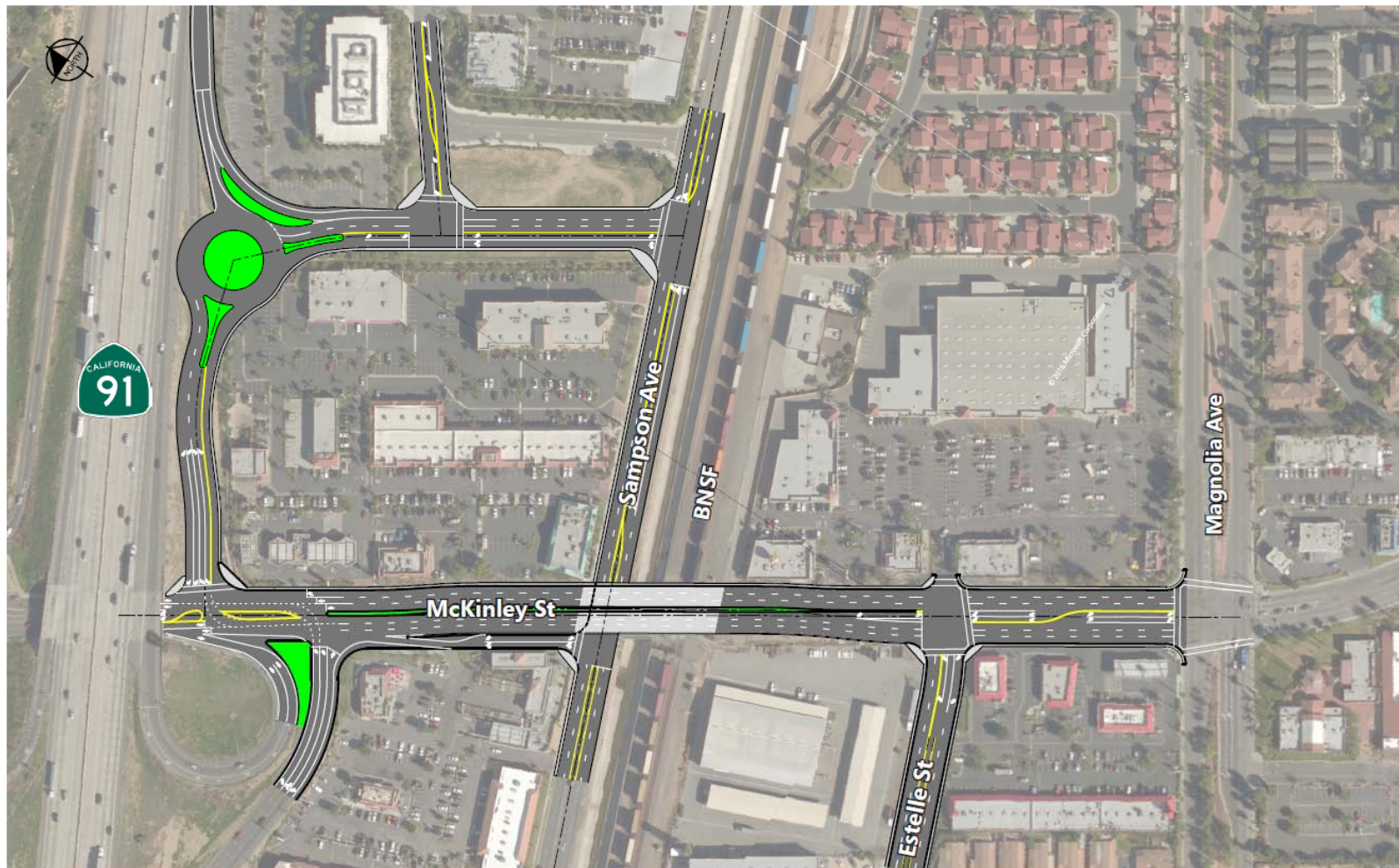
# Connector Road Option 3 – Offset Loop



OFFSET INTERSECTION LOOP OPTION



# Connector Road Option 4 – Roundabout Loop

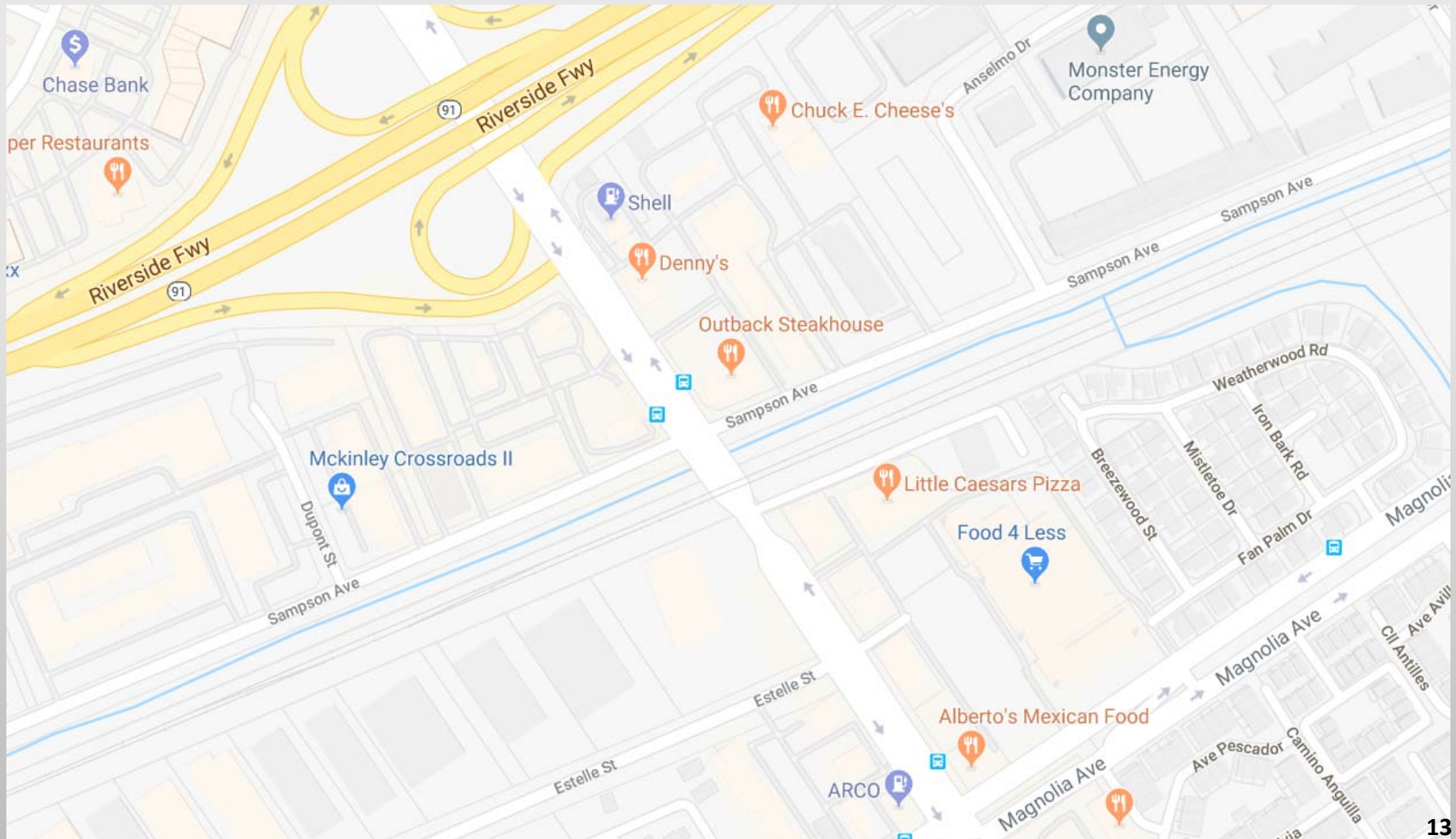


ROUNDAABOUT LOOP OPTION



# Meeting with Property Owners

Thursday, July 12



# Scope of Work for this Contract

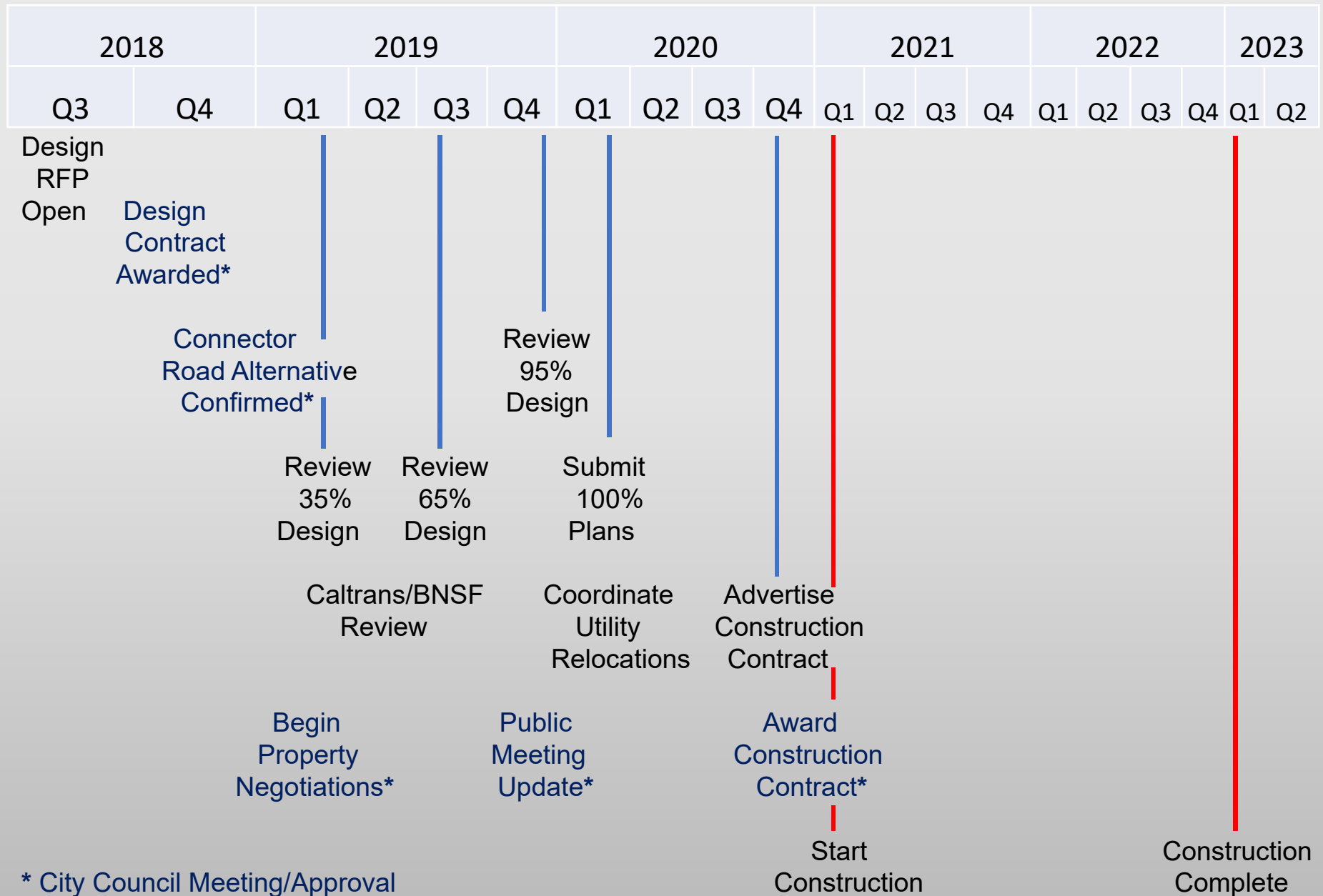
14

- ☐ **Design Engineering Services – plans and specifications**
  - ☐ Structural Engineering & calculations for bridge and retaining walls
  - ☐ Roadway Engineering; Plan & Profile, Demolition & Construction details, Erosion Control
  - ☐ Hydraulic and Drainage Engineering
  - ☐ Right-of-Way Engineering; Plats and legal descriptions, surveying
  - ☐ Utilities Design, Coordination and Relocation Design
  - ☐ Aesthetics, Landscaping and Irrigation Design
  - ☐ Electrical, Signal and Lighting Design
  - ☐ Environmental Clearance and Technical Studies
  - ☐ Estimate of Probable Costs for acquisitions, relocations, and construction
- ☐ **Support and coordinate with Right-of-way Consultants for appraisals and acquisitions**
- ☐ **Coordinate design reviews with BNSF, Caltrans, RCFC&WCD & others**
- ☐ **Conduct Agency/Stakeholders Coordination workshops and meetings**
- ☐ **Outreach and Public Relations; workshops and meetings w/stakeholders & community**



# Estimated Timeline

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# Biggs Cardoso Team

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**Stephen Biggs, PE, SE**

**Principal-in-Charge**

**Michael Thomas, PE, SE**

**Project Manager**

**Dan Devlin, PE, SE**

**Quality Assurance**

**Eric Pheifer, PE**

**Structures Manager**

**Darren Adrian, PE**

**Civil Manager**

**Brian Calvert**

**Environmental Manager**

**Dana De Vera, PE, SE**

**Quality Control Manager**

**Roy Ketring**

**BNSF Coordinator**