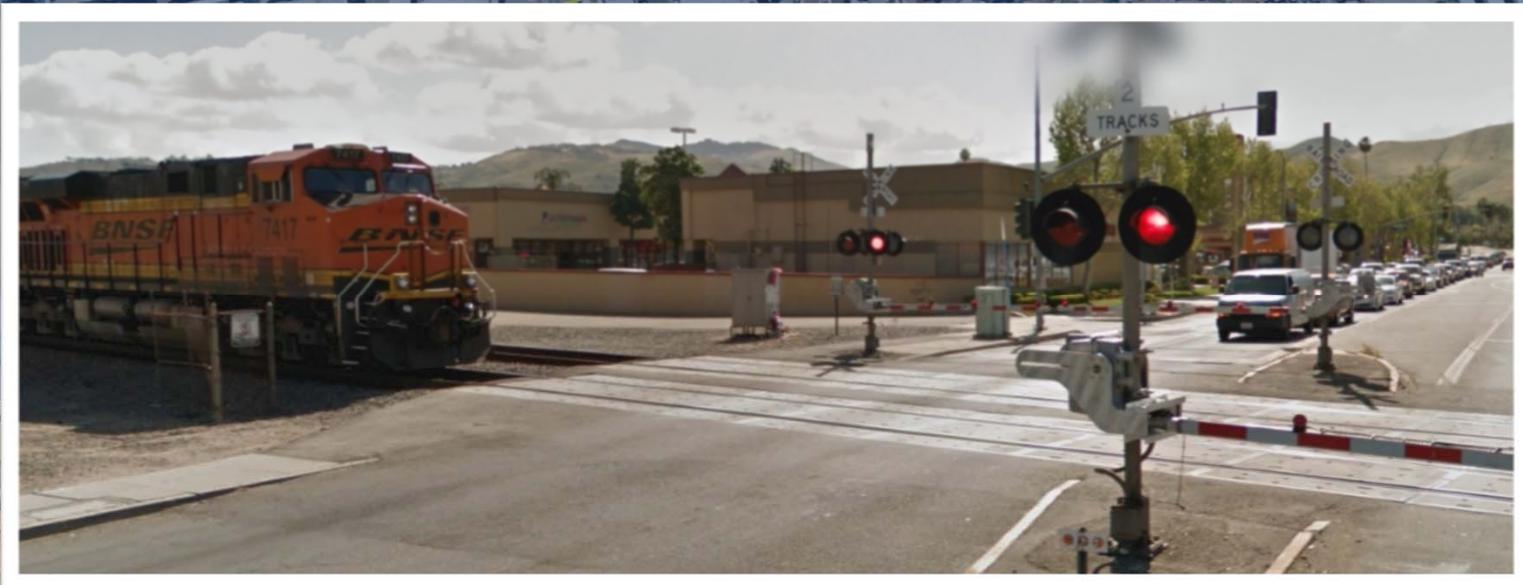


91 Freeway

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



Brief History

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

- 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**



McKinley Grade Separation



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 Cardoso 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 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 abutments constructed when bridge is being finalized reducing impact on businesses**
- Completion of project approximately 6 months prior to June 30, 2023 deadline**
- Anticipate completing entire project under budget**

Proposed McKinley Bridge

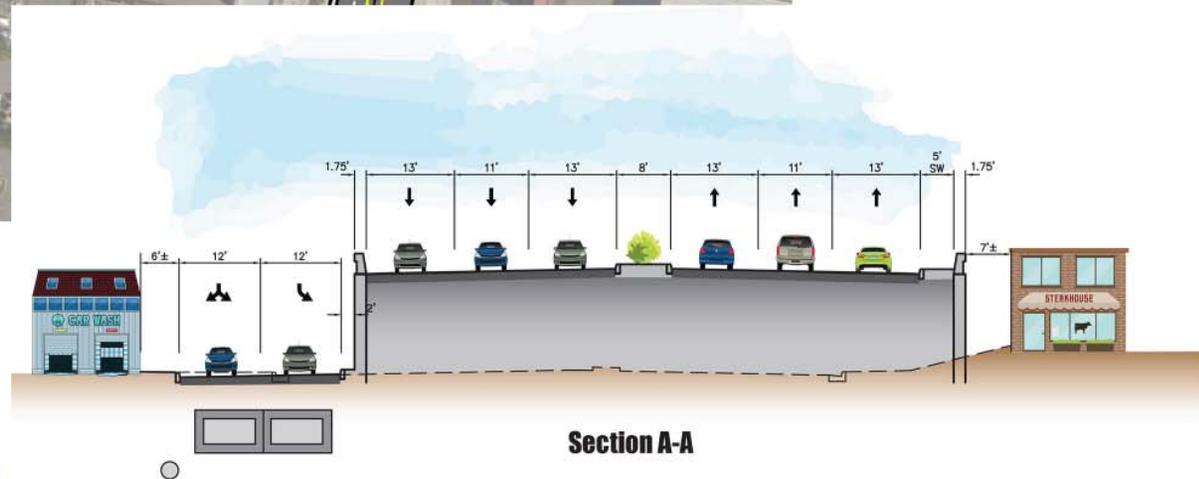
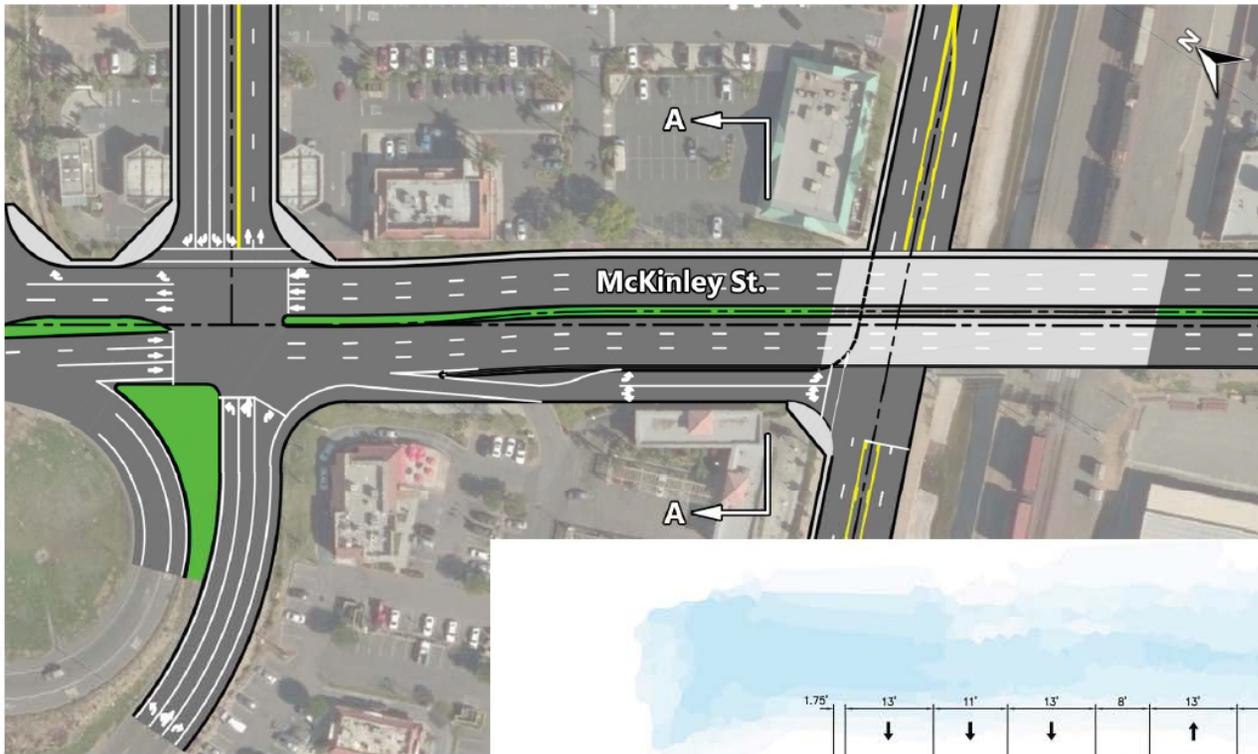
BIGGS CARDOSA
ASSOCIATES INC
BCA

McKinley Street Grade Separation



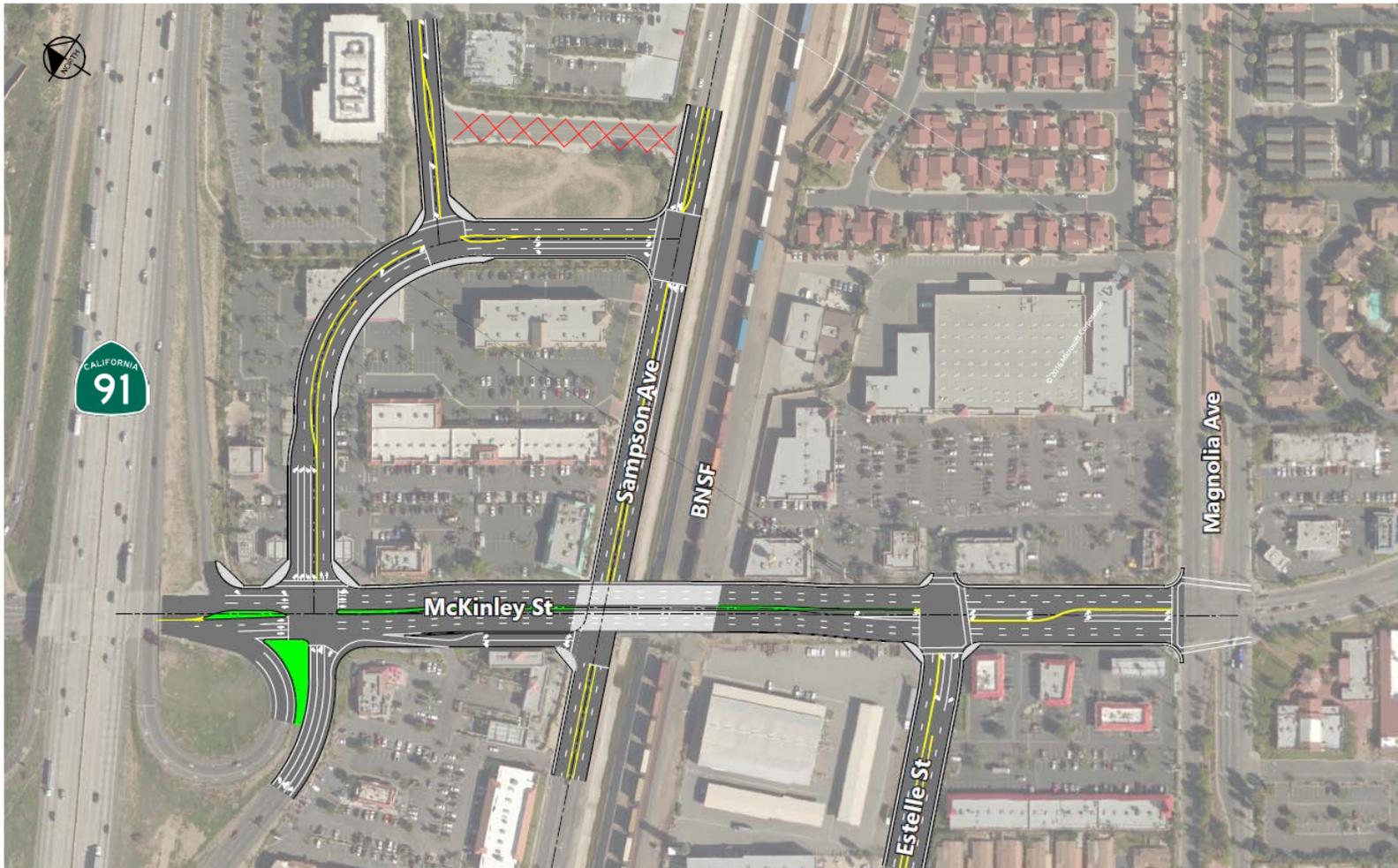
MCKINLEY STREET OVERPASS

Cross Section at Sampson Avenue



MCKINLEY STREET SIDE RAMP

Connector Road Option 1 – Outside Loop



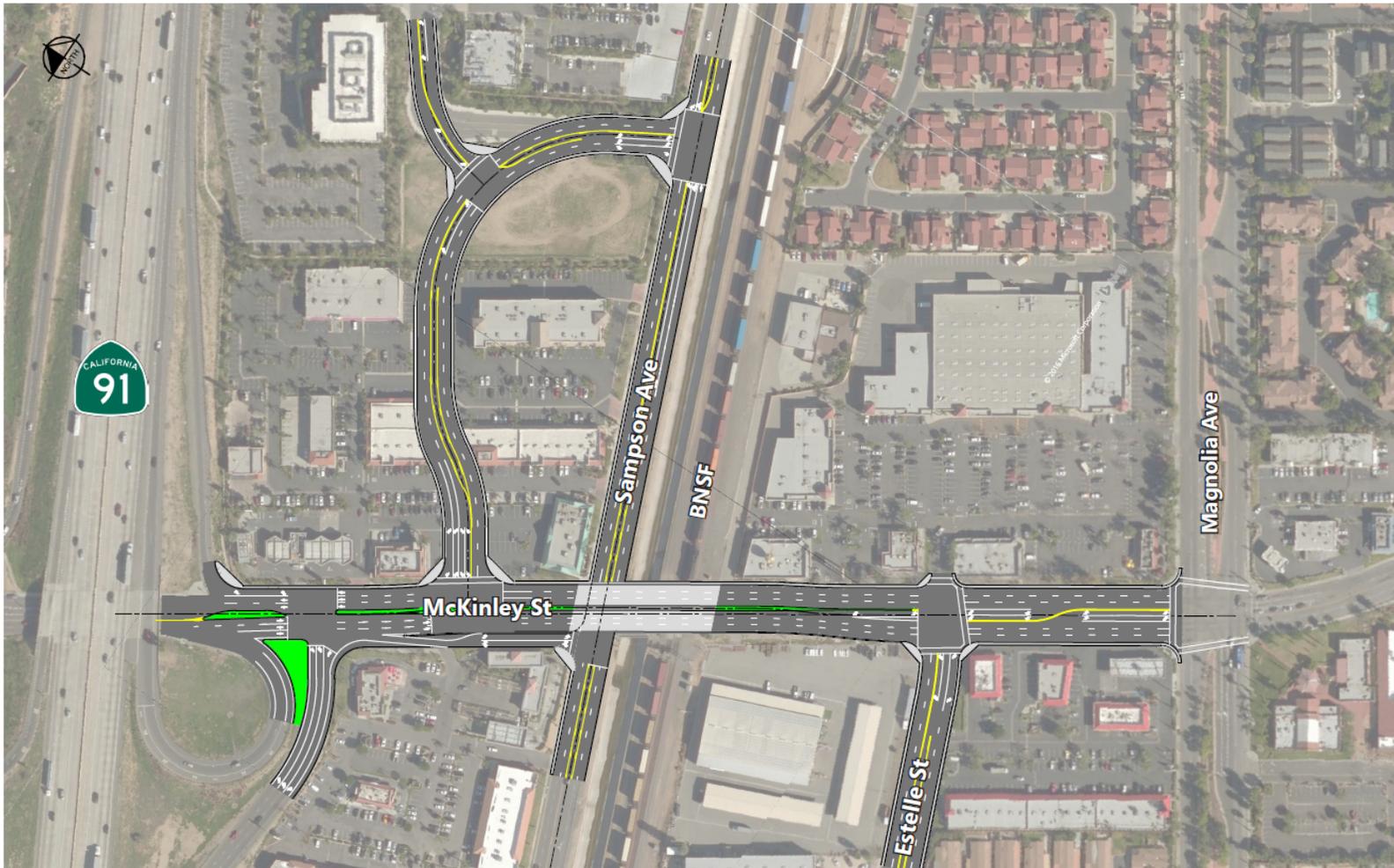
OUTSIDE LOOP OPTION

Connector Road Option 2 – Inside Loop



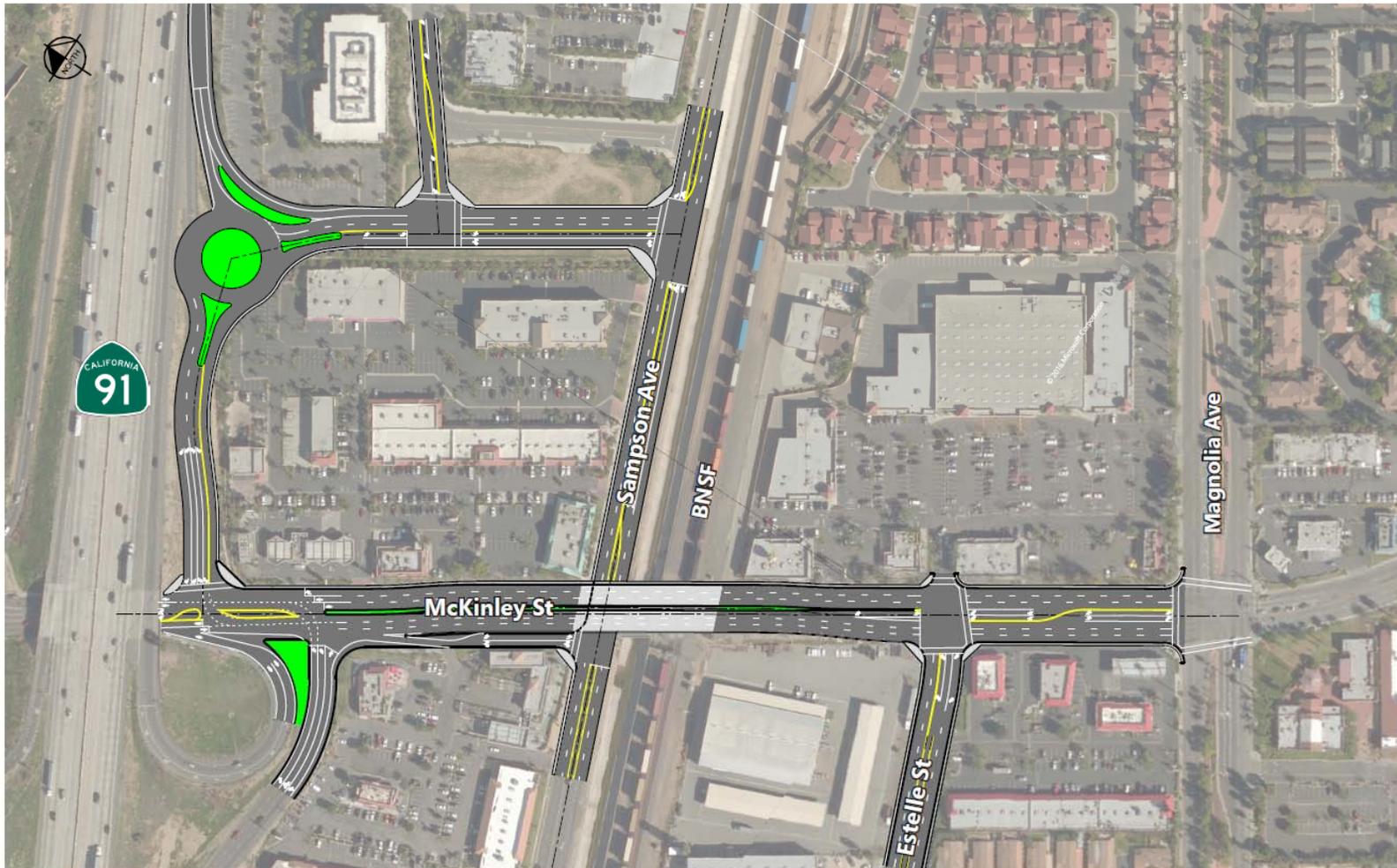
INSIDE LOOP OPTION

Connector Road Option 3 – Offset Loop



OFFSET INTERSECTION LOOP OPTION

Connector Road Option 4 – Roundabout Loop



ROUNDBOUT LOOP OPTION

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