### I-80-GILMAN

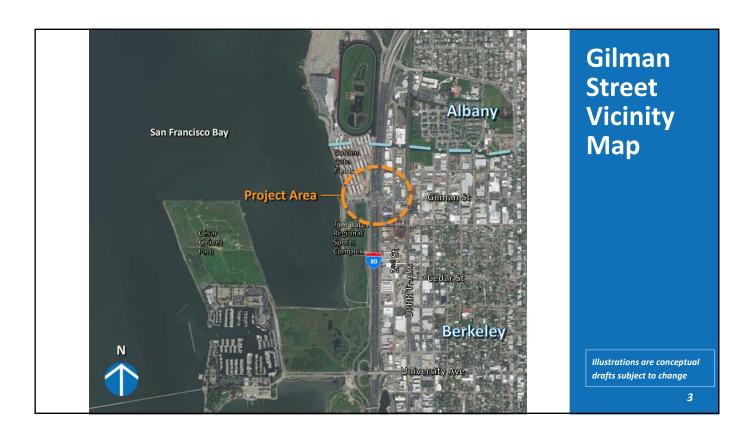
## I-80 at Gilman Street Interchange Roundabouts

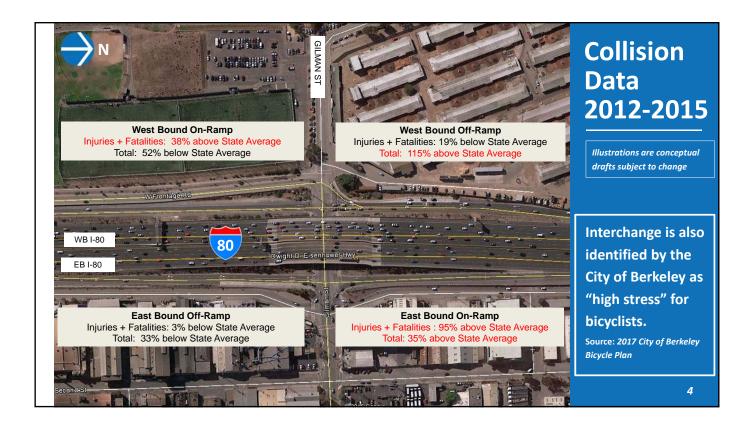
07 February 2018

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#### **Presentation Overview**

- » Project Planning Process
- » Project Components
- » Project Implications
- » Future Steps





#### **Past Studies**

- » West Berkeley Parking and Circulation Study (1998)
- » Gilman Street Interchange Improvement Study (2005)
- » Draft Project Study Report (PSR) (2005)
- » West Berkeley Circulation Master Plan Report (2009)
- » Project Study Report-Project Development Support (PSR-PDS) (2014)

#### These studies concluded:

- » Signalization and stop signs would both fail.
- » No room for diamond interchange.
- » Only workable solution is roundabouts.

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#### **Project Partners**

- » Caltrans
- » Alameda County Transportation Commission (ACTC)
- » City of Berkeley
- » City of Albany

#### **Consultant Team Key Members**

- » Parsons Project Management
- » OMNI-MEANS Roundabout Design
- » TJKM Traffic Engineering
- » PlaceWorks Public Engagement

#### **Project Purpose**

- » Improve safety for all modes of transportation.
- » Simplify and improve the navigation, mobility, and traffic operations at the I-80/Gilman Street interchange.
- » Reduce congestion, vehicle queues and conflicts at the I-80/Gilman Street interchange.
- » Improve local and regional bicycle connections and pedestrian facilities through the I-80/Gilman Street interchange.









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#### **Project Planning Meetings To Date**

- » March 15, 2016: Meeting with Public Agencies
- » March 17, 2016: Meeting with Community Based Organizations
- » March 24, 2016: Meeting with Business Owners
- » April 14, 2016: Meeting with Pacific Steel Casting
- » April 27, 2016: Open House
- » May 4, 2016: Meeting with Business Owners
- » August 26, 2016: Meeting with Golden Gate Fields
- » August 29, 2017: Meeting with Business Owners
- » Late 2017 2018: On-going meetings with City of Berkeley, City of Albany, and other stakeholders

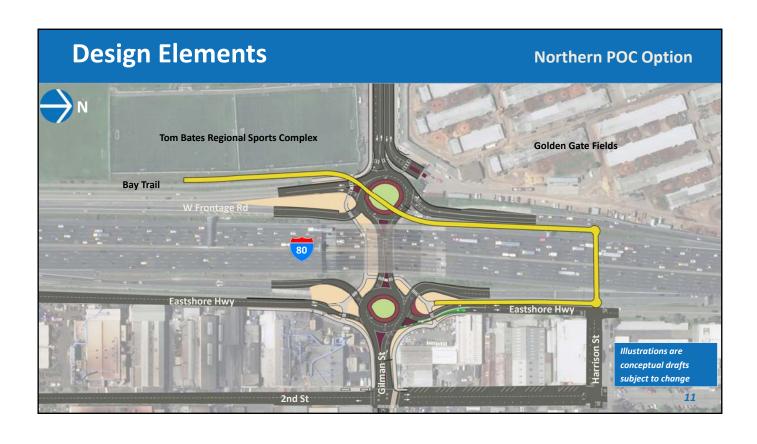


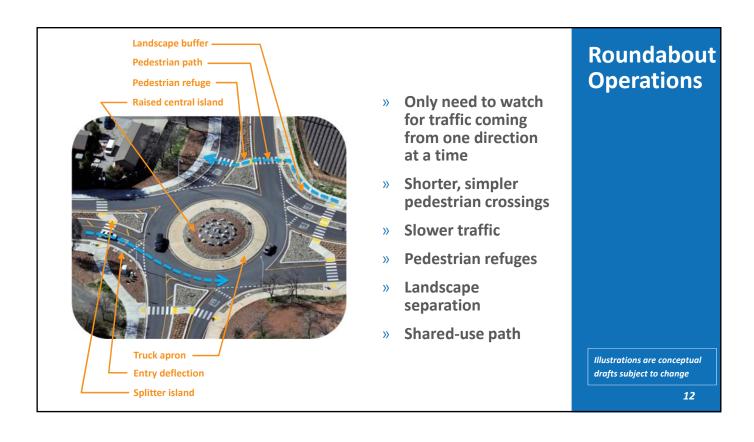
- Two roundabouts
- Landscaped areas
- Sidewalks and at-grade path through interchange
- Pedestrian / bike overcrossing
  (POC) over
  I-80 to the north or south
- Gilman Street cycle track to new signal at Fourth Street
- Bike improvements from Gilman /
  Fourth Street to Codornices Creek
- New access to Golden Gate Fields stables
- Bay Trail gap closure at foot of Gilman Street

#### Design Elements

Illustrations are conceptual drafts subject to change







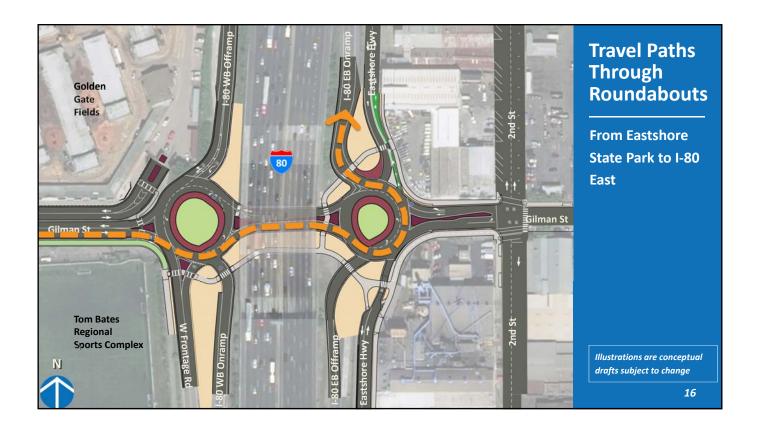
#### **Roundabout Safety – Why Roundabouts?**

- » Improves overall safety
- » According to the Federal Highway Administration, installing a roundabout typically results in:
  - 76% reduction in injury collisions
  - 90% reduction in fatality collisions
  - 40% reduction in pedestrian injuries
  - 75% fewer conflict points compared to standard intersections

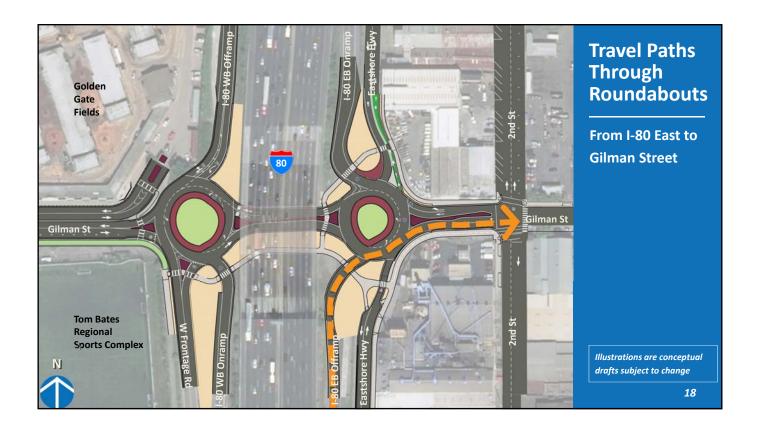
Source: Federal Highway Administration, Safe Roads for a Safe Future, 2015.



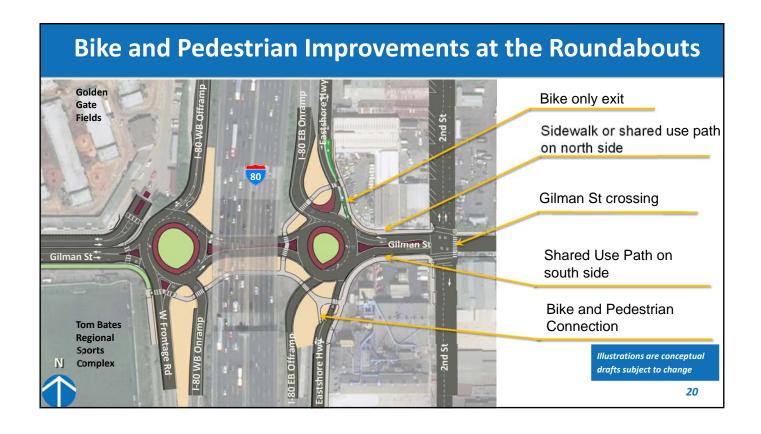


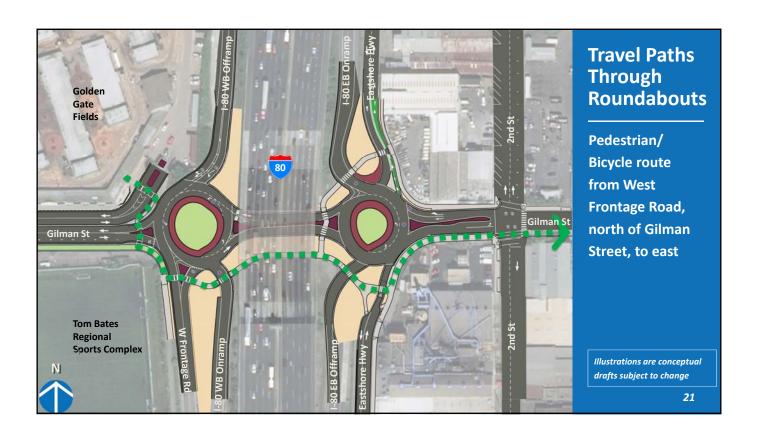




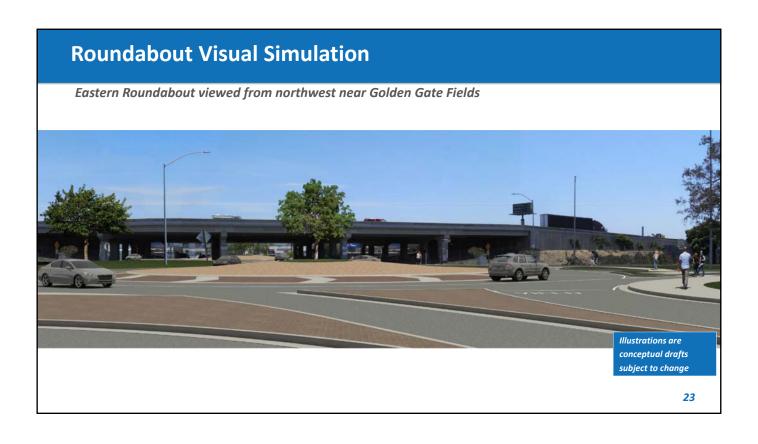
















### **Pedestrian Overcrossing Features**

Separate bicycle and pedestrian areas



Bay Bridge east span path



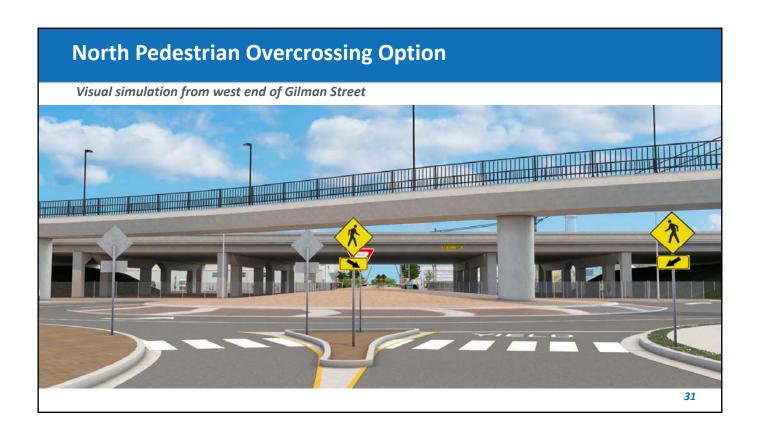
University Avenue bike/pedestrian overcrossing

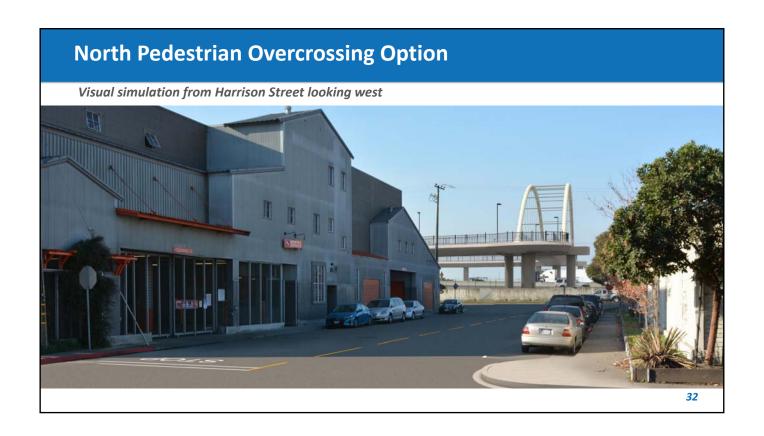




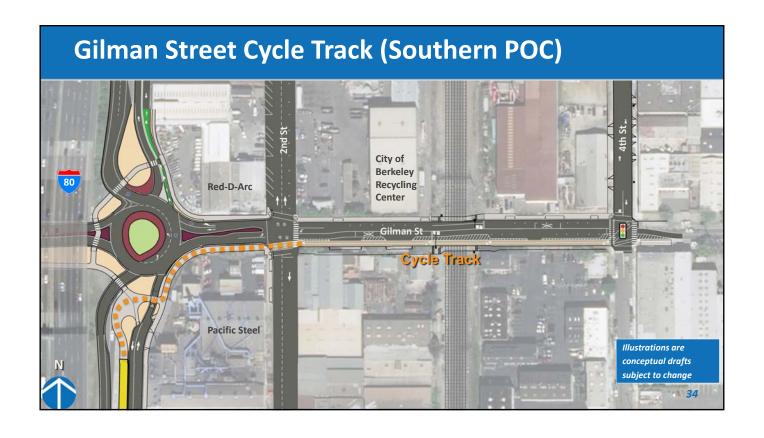


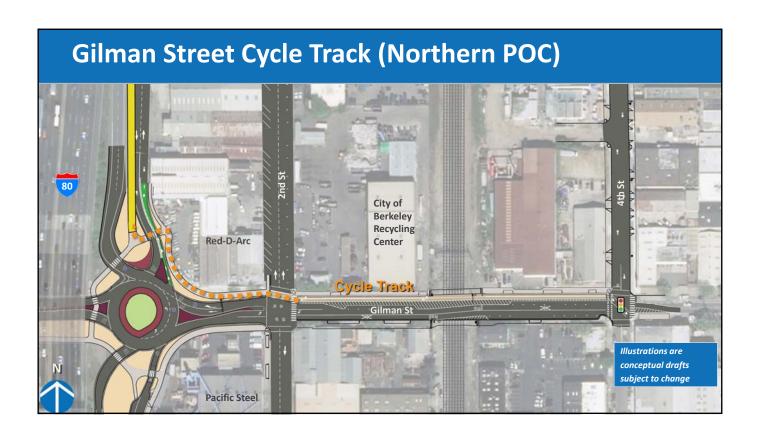












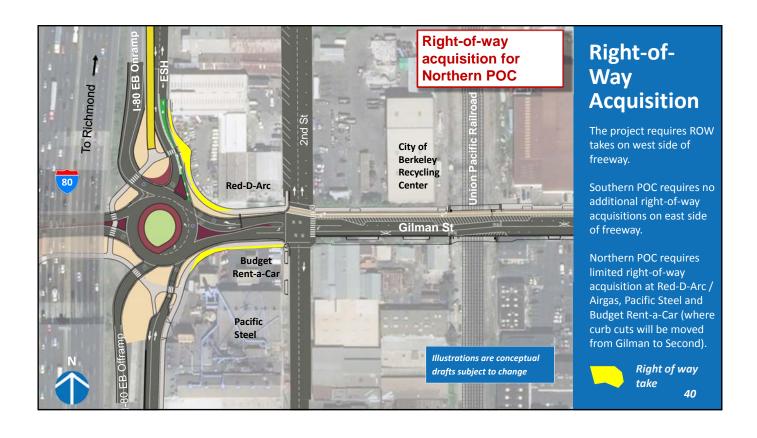


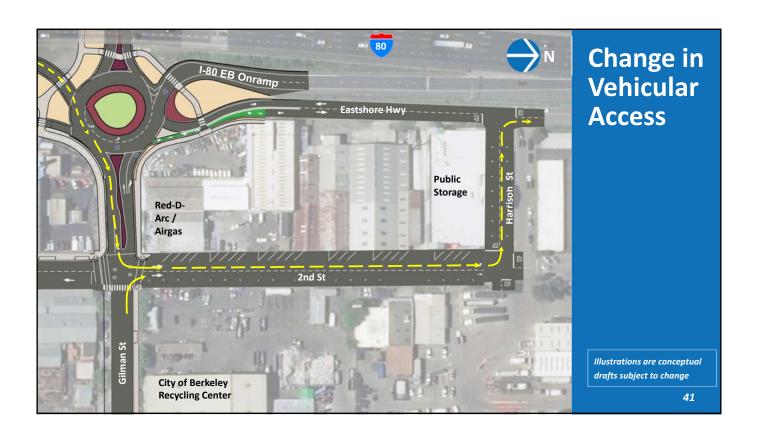


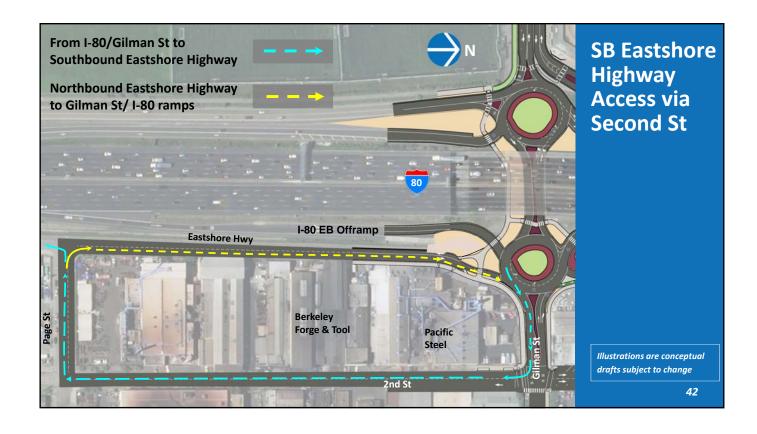
#### **Project Implications**

- » Vehicle Queuing
- » Right-of-Way issues
- » Change in access between Gilman and Eastshore Highway
- » Changes to Golden Gate Fields access









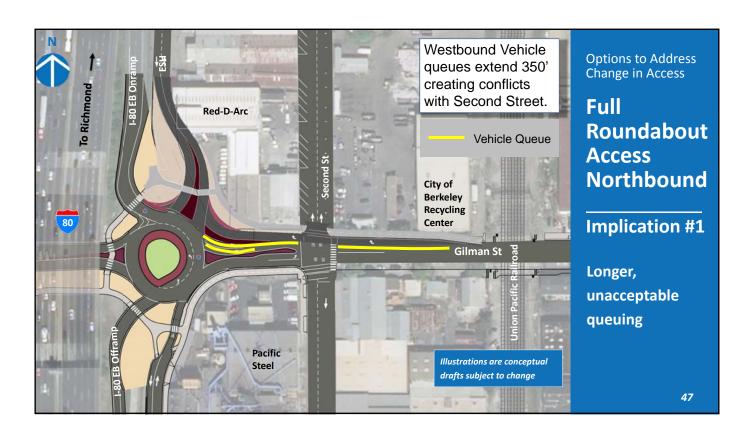
#### **Options to Address Change in Access**

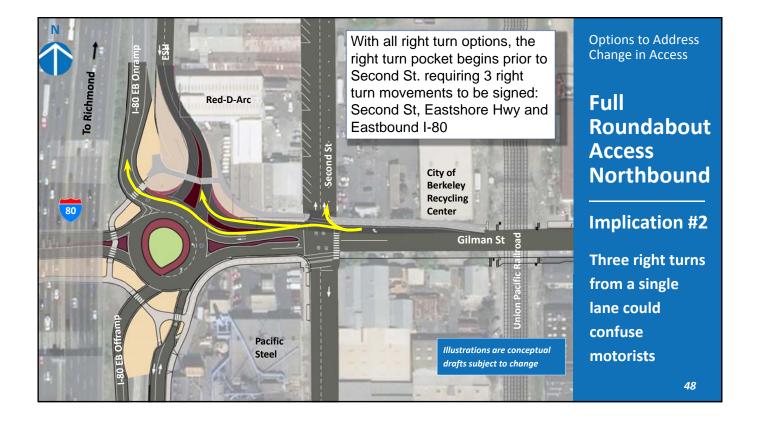
- » Enhanced paving, streetscape and signage
- » Full roundabout access northbound
  - Access to and from Eastshore Highway north of Gilman
  - Includes right turn from Gilman westbound to Eastshore Highway northbound
  - Access from Gilman to Eastshore Highway southbound would still be closed
- » Right turn only northbound
  - From Gilman westbound to Eastshore Highway northbound only
- » One-way Second Street south of Gilman Street
  - From Gilman to Page Street

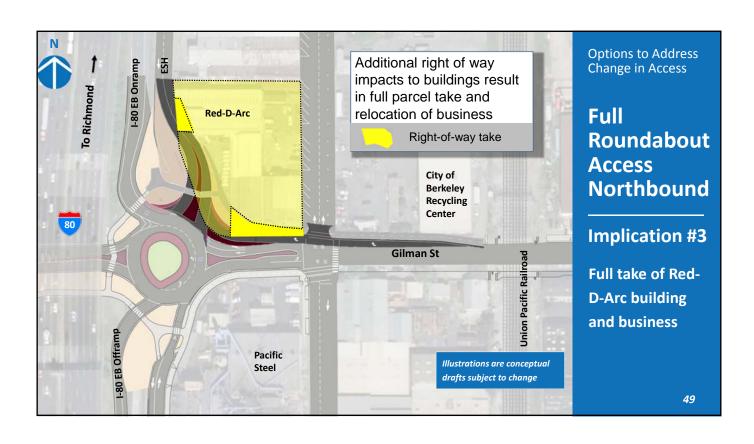


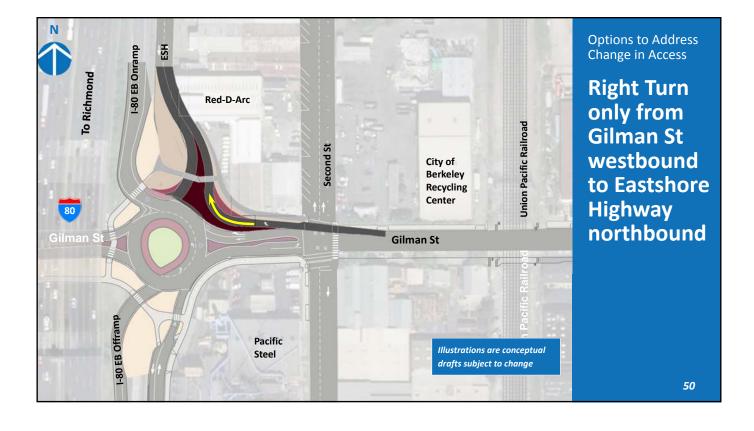












# Options to Address Change in Access Right Turn Only Implications



Queuing returns to previously predicted levels



Shorter queuing length means that adequate signage could be provided

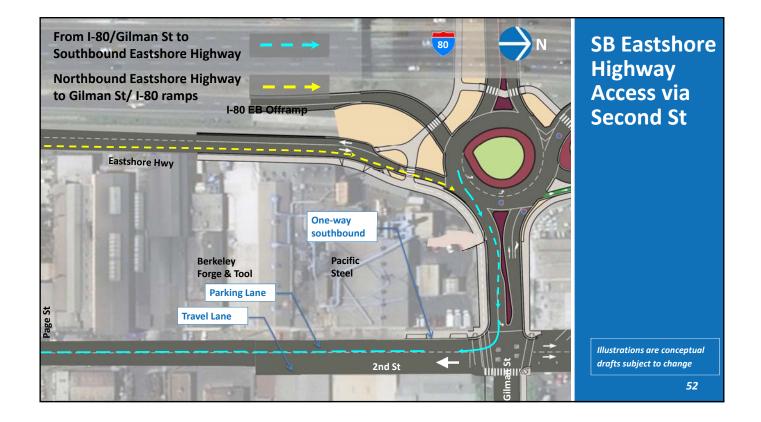


Same ROW take as for roundabout with full northbound access



Illustrations are conceptual drafts subject to change







#### **Future Steps**

- » City presentations
  - Berkeley Transportation Commission: February or March
  - Albany City Council: February or March
- » On-going outreach
- » Preparation of environmental document
- » On-going design and project refinement
- » Construction: Late 2019 through 2022

## I-80GILMAN

# I-80 at Gilman Street Interchange Roundabouts

07 February 2018