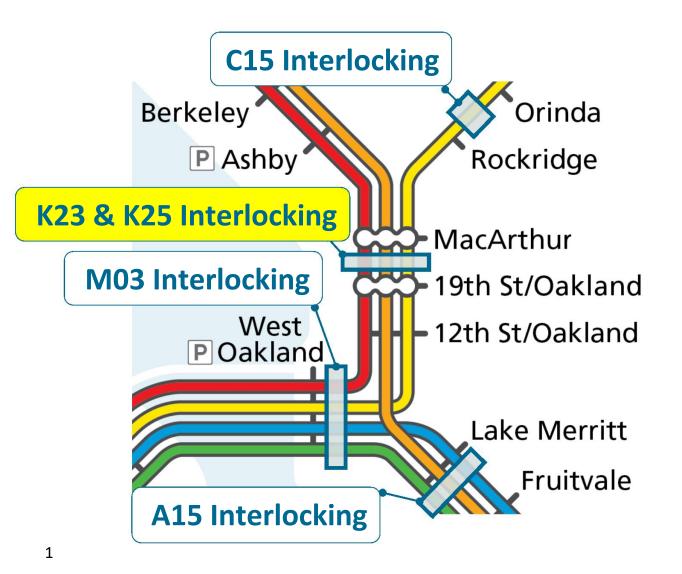
K-Line Interlocking Construction Project Update

May 23, 2024 | BART Board of Directors Meeting



Extending the Life of the System Core





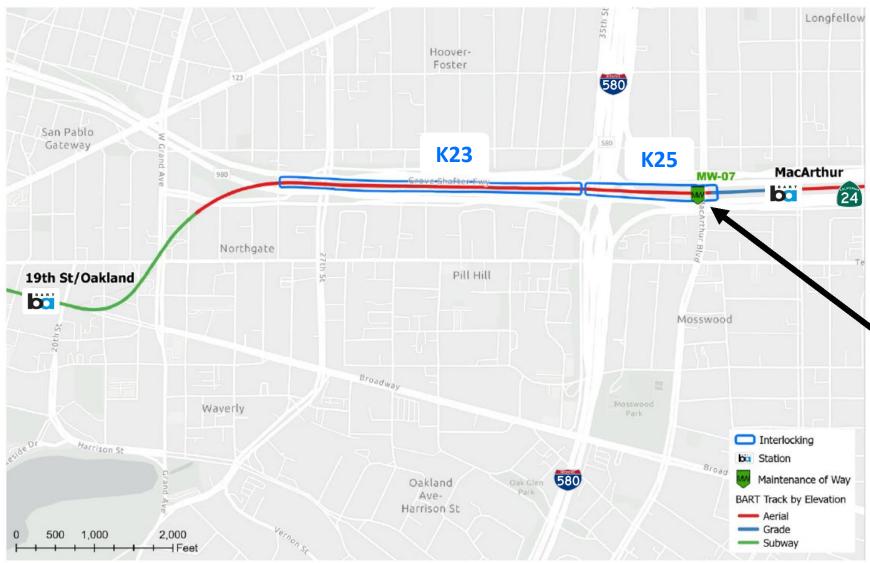
Interlockings: Combination of switches that allow trains to move from track to track and line to line.

System's Core Interlockings: A15, M03, C15, K23, K25 (3 of 5 completed)

"Grand Meetup": When all of the systems last 4 trains meet at MacArthur (thereafter, the trains depart at 12:50AM to return to the end of lines)



Construction Access



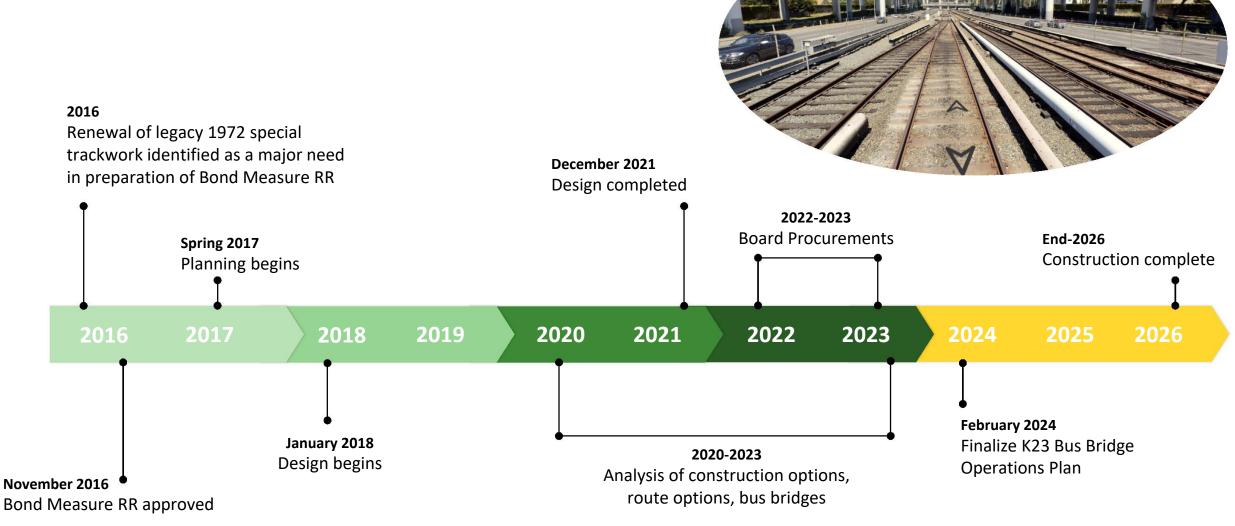
- Switches located in the median of State Route 24
- Only street access is from West MacArthur Blvd
- Rail access is from Oakland Shops, south of Lake Merritt



Access Way for Maintenance on West MacArthur Blvd



Project Development





Project Scope



K23 & K25 Interlocking Quantities

- 16 switch replacements
- 1,900 concrete ties
- 3,600 LF of traction power cable
- 10,000 LF of conduit
- 13,000 LF of Third Rail
- 14,000 LF of Rail Replacement
- 28,000 LF of signal cable
- Other related work: 34.5 kV Cable Replacement, Enabling Works, Communication Based Train Control (CBTC)



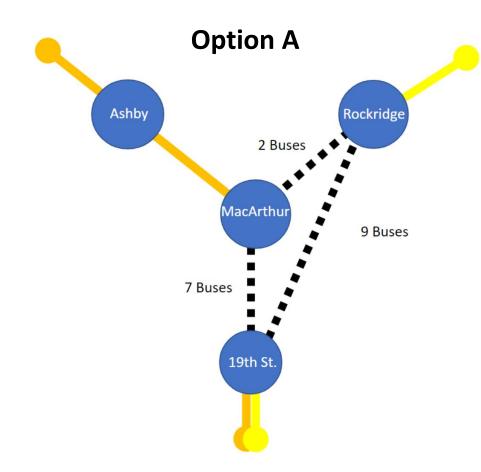
Site Challenges for Construction

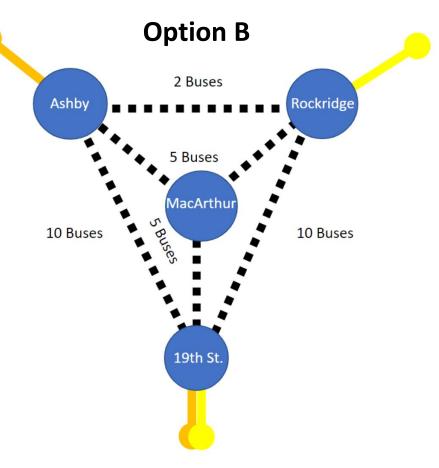


- Additional safety protections required
- Four mainline tracks tightly bundled in the median of State Route 24
- Limited space for crews
- Lack of material storage
- Newly acquired TBT maintenance train will be utilized for material delivery



Bus Bridge Initial Planning





- Requires 18-20 buses
- Stable operation at 19th St. station
- 20-40-minute delays

- Requires 30+ buses: uncertain bus availability
- Major logistical challenges at 19th St. station
- 35-45-minute delays



Bus Bridge Service

Orange Line: Richmond to Berryessa

Bus required from MacArthur to 19th St

- Orange Line: Berryessa to Richmond
 - Bus required from 19th St to MacArthur
 - 30-minute headways

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One track shared by

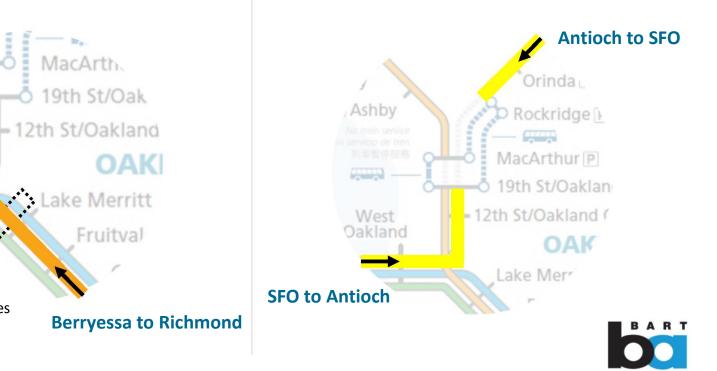
Green/Orange/Blue lines

Yellow Line: Antioch to SFO

• Bus required from Rockridge to 19th St

• Yellow Line: SFO to Antioch

- Bus required from 19th St to Rockridge
- 20-minute headways
- Distribute passenger flows through 19th St



30-minute headways



Richmond to Berryessa

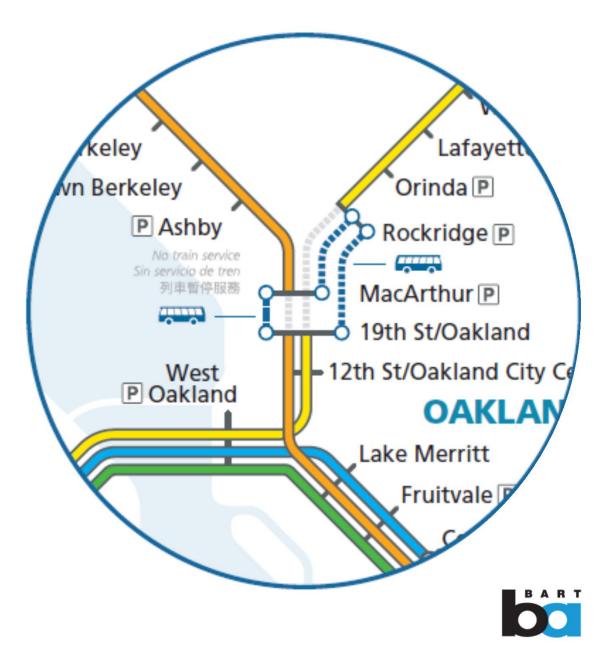
Bus Bridge Plan

Train Operations on Bus Bridge Weekends:

- Yellow 20 min headways
- Orange 30 min headways
- Red Cancelled (Millbrae service via the Yellow Line)
- Green 30 min headways
- Blue 30 min headways

Bus Bridge Operations:

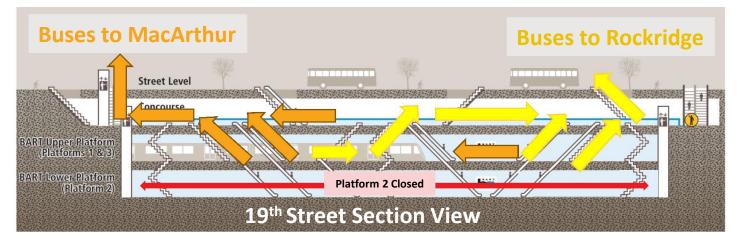
- AC Transit and Paratransit
- Up to 20 buses/weekend
- Critical station planning at 19_{th} Street, outreach, wayfinding, passenger flows, traffic flows



Bus Bridge Operations

Rockridge & MacArthur

• Ample loading area for buses and passengers



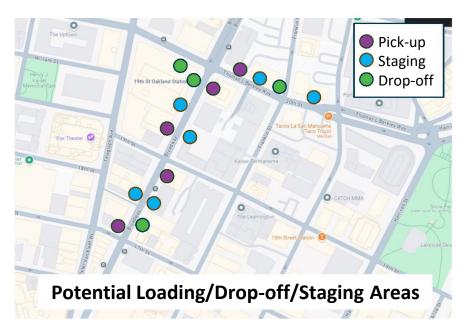
19th St. Station

Constraints

- Operating with existing transit routes
- Shifting construction projects on Broadway and 20th Streets
- Built infrastructure, parking and traffic flow

Planning Efforts

- All trains will operate on platforms 1 & 3
- Lower-level platform 2 will not be used
- Analyzed use of all possible curb space near station
- Coordinating with Oakland DOT and AC Transit
- Developing robust wayfinding plan to assist with passenger flow



Communication & Outreach Activities

ACTIVITY	STATUS
Site coordination with City of Oakland and nearby property owners	Early April
Detailed news article posted to BART.gov	Early May
BART Director briefings	Early May
Mailer to addresses within ¼ miles of alignment between MacArthur and 19 th	Late May
Public comment at priority City Council meetings	Early – Mid June
Outreach and briefings to cities along Antioch and Richmond Lines	Ongoing
Outreach to community organizations along Antioch and Richmond Lines	Ongoing
Notice distribution at community fairs and festivals	Ongoing
News release, passenger bulletin, DSS messaging, station signage, media interviews, podcast, etc.	Throughout project duration
Paid advertising	Throughout project duration
Rider updates via BART Trip Planner, social media, BART service advisories	Throughout project duration

WEEKEND SERVICE CHANGES Track rebuilding projects between Rockridge and Lafayette stations -----Free buses will replace trains between the Rockridge, Orinda, and Lafavette stations on Presidents Day weekend 2/18-20 Los autobuses gratuitos reemplazarán a los trenes entre las estaciones de Rockridge, Orinda y Lafayette el fin de semana del Dia de los Presidentes. 免费巴士将在总统日周末取代往返 Rockridge. Orinda 及 Lafayette 站的列车。 Free buses will replace trains between the Rockridge, and Orinda stations on the following weekends: 4/1-2, 4/15-16, 5/13-14, 5/27-29 (Memorial Day weekend), and 6/10-11 Los autobuses gratuitos reemplazarán a los trenes entre las estaciones de Rockridge y Orinda en las fechas indicadas. 在所列日期,免费巴士将取代往返 Rockridge 和 Orinda 站的列车。 PLAN FOR 30-MINUTE DELAYS ON THESE WORK WEEKENDS. Espere retrasos de 30 minutos los fines de semana en los que haya trabajos p 周末若有工作计划+请注意您的出行可能延误 30 分钟。 100 County bö

Poster Example



Thank You

Connecting BART's Core Largest Measure RR Investment Most Complex Interlocking Replacement To Date

