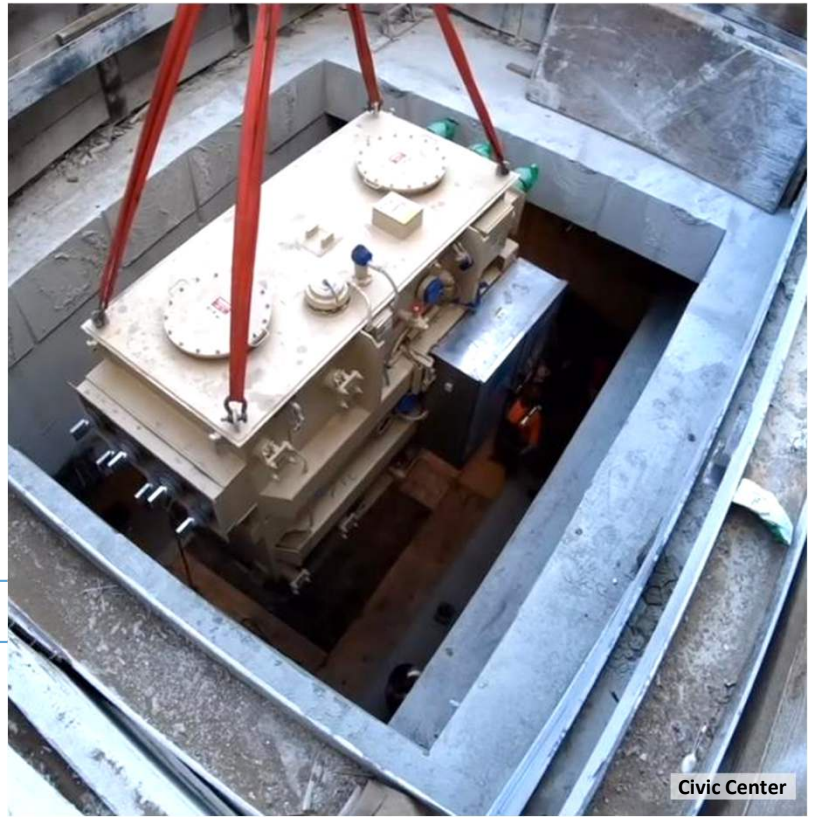
TCCCP East Bay Traction Power Facilities

Staff Recommendation to Award Contract 15EK-103

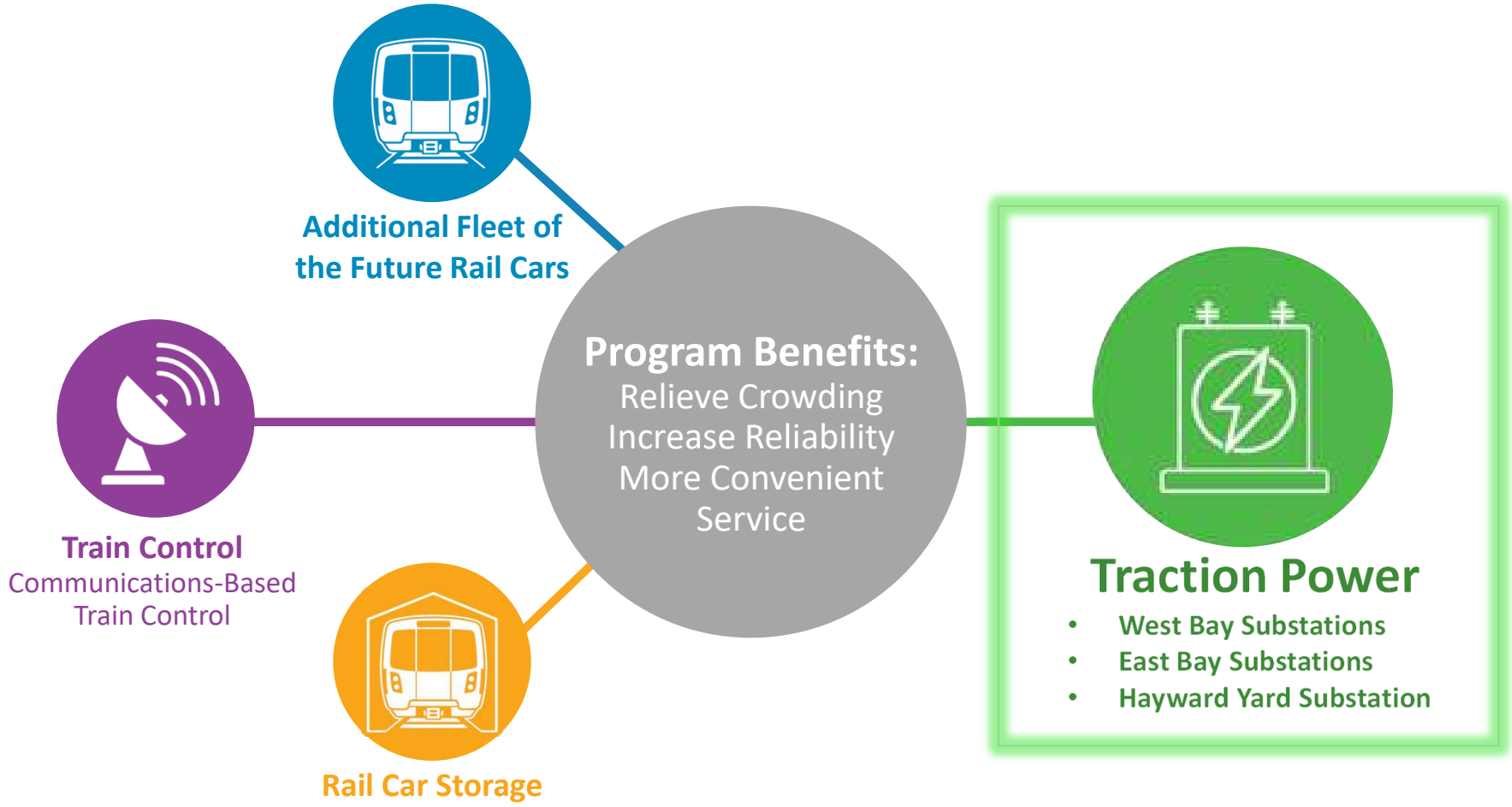
August 13, 2026 | BART Board of Directors Meeting

Agenda

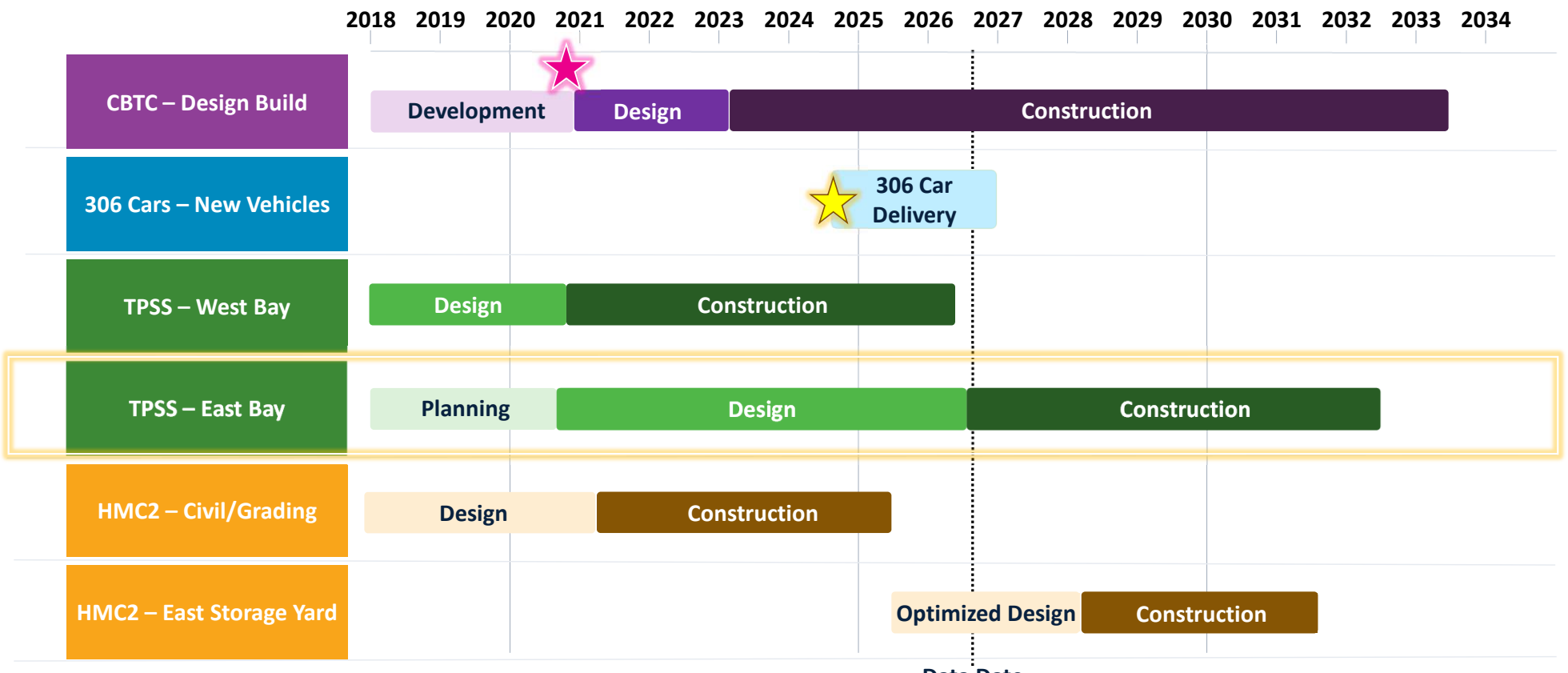
- TCCCP Program Overview
- Purpose
- Project Site Overviews
- Permits, Agreements & Procurement Process
- Bid Analysis
- Current Market Conditions
- Construction Timeline
- Recommendation to the Board



Transbay Corridor Core Capacity Program (TCCCP) Overview



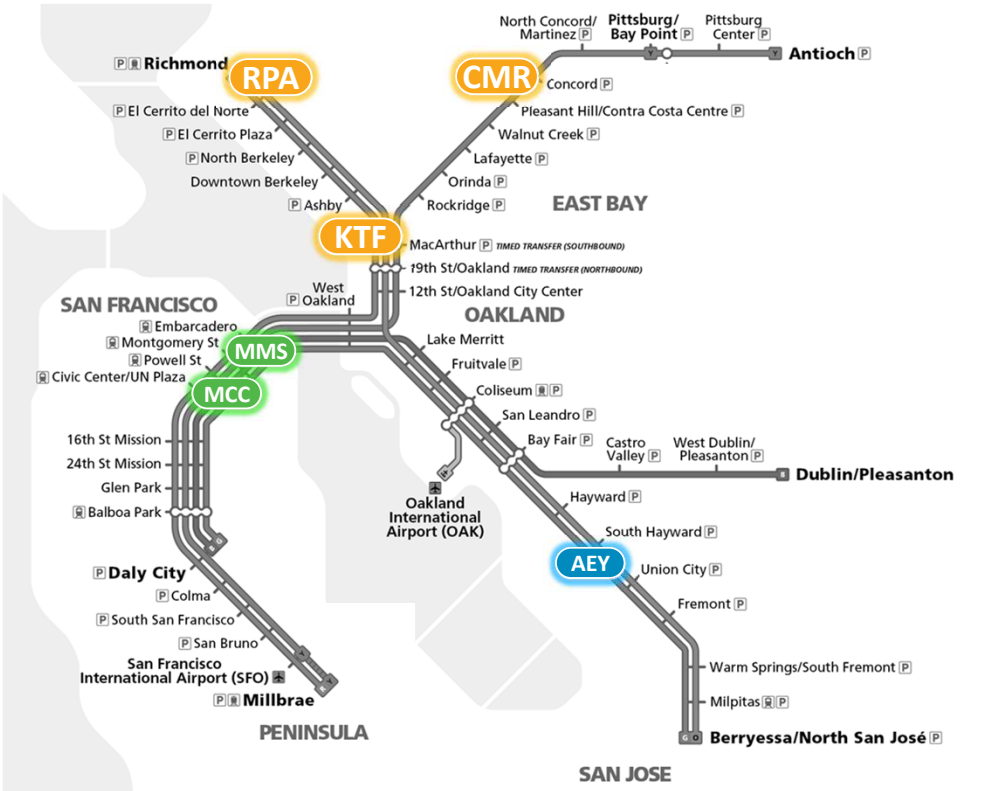
Overall Core Capacity Program Schedule



CBTC: Communications-Based Train Control
TPSS: Traction Power Substations
HMC2: Hayward Maintenance Complex 2

FFGA Date **Commencement Date**

Purpose



Completed Traction Power Substations

Upcoming East Bay Traction Power Substations

Future Traction Power Substation

Project Scope

- Procure, install, test, and commission three new traction power substations at East Bay

Locations

KTF Downtown Oakland, 34th Street Substation

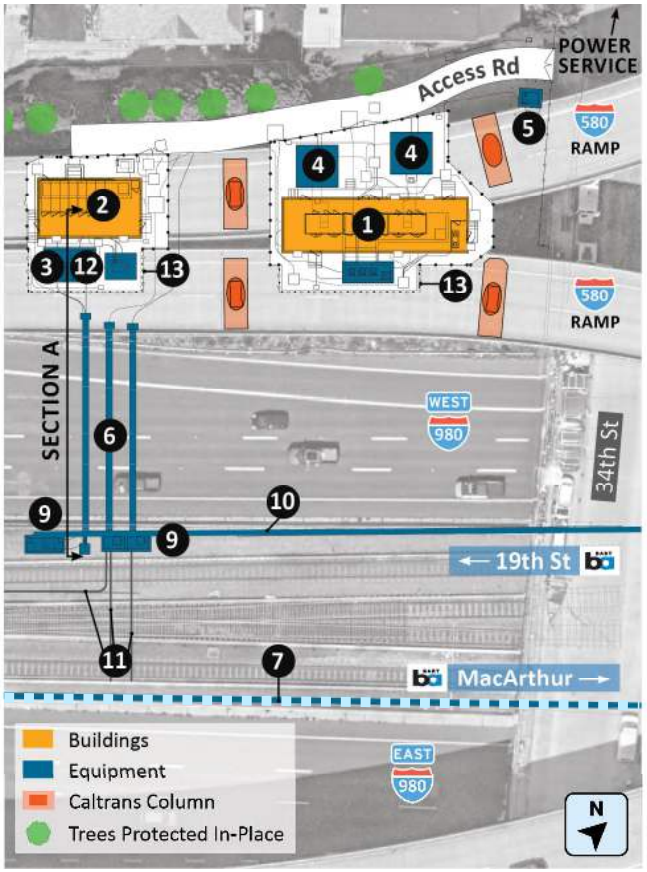
CMR Concord, Minert Road Substation

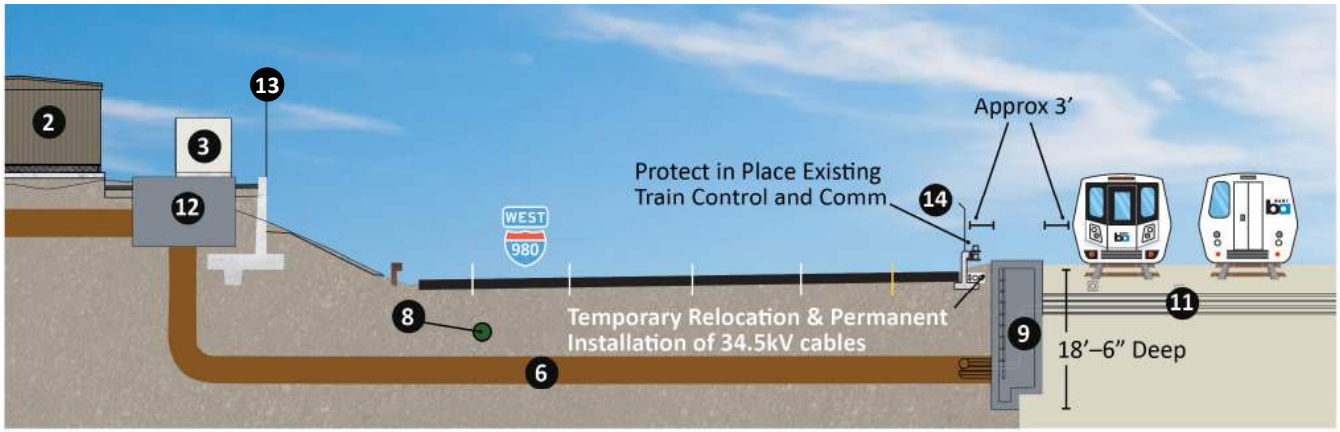
RPA Richmond, Portola Avenue Substation

Project Need

- Improved system reliability and Traction Power stability
- Greater redundancy when adjacent substation is unavailable
- Supports CBTC capacity and headway
- Modern equipment, remote control and monitoring
- Replacement of aging Traction Power infrastructure
- Strengthens power reliability through critical Oakland Wye
- Two sets of transformer resilience at KTF, CMR and RPA substations

KTF (Downtown Oakland Substation)



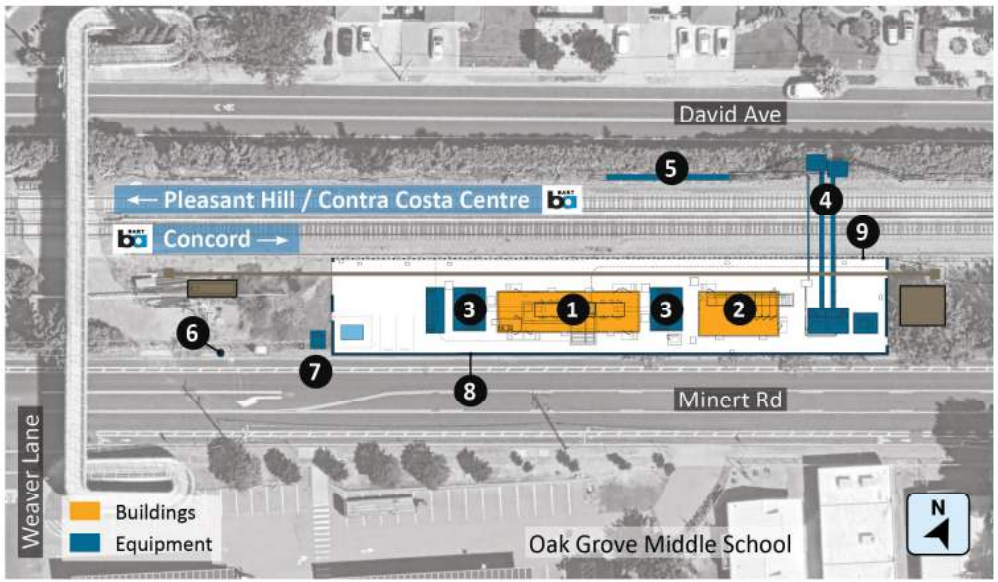


SECTION A

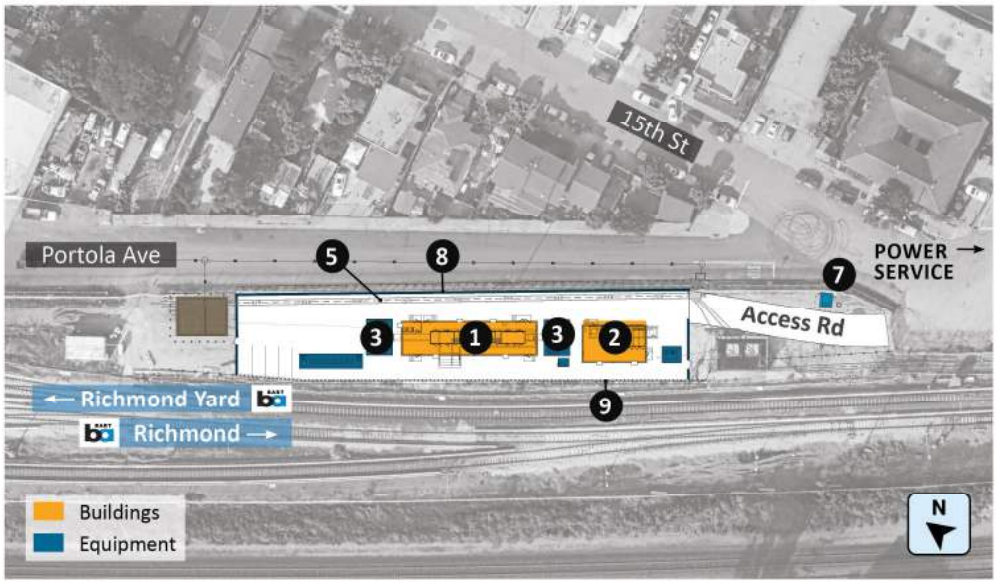
1. DC House
2. AC House
3. 34.5kV Elbow Boxes
4. 5MW Traction Power Transformer
5. Utility Transformer
6. Jack and Bore Conduits
7. 34.5kV Cable Construction Bypass
8. Existing Utilities
9. AC & DC Traction Power Vaults
10. 34.5kV Traction Power
11. Traction Power Ductbanks
12. Cable Vault
13. Non-Conductive Fence on Retaining Wall
14. BART Fence

CMR (Concord Substation) & RPA (Richmond Substation)

CONCORD, MINERT ROAD SUBSTATION (CMR)



RICHMOND, PORTOLA AVENUE SUBSTATION (RPA)



1. DC House
2. AC House
3. 5MW Traction Power Transformer
4. Jack and Bore Crossing
5. 34.5kV Cables
6. Utility Service Point
7. Utility Transformer
8. Concrete Masonary Unit (CMU) Wall
9. Non-Conductive Fence

Permits & Agreements

FEDERAL / ENVIRONMENTAL

National Environmental Policy Act (NEPA) Clearance

- Categorical Exclusion (CE) under the TCCCP Program

STATE APPROVALS

Caltrans Agreements & Permit

- Joint Use Maintenance Agreement (JUMA)
- Cooperative Agreement
- Encroachment Permit
- Office of State Fire Marshal Review / Coordination

UTILITY + LOCAL AGENCIES

Service Agreements & City Permits

- PG&E Service Agreements
- Oakland Obstruction Permit
- Richmond Encroachment Permit
- Concord Street Use Permit

Coordinating Agencies

Federal / State

Federal Transit Administration

CAL FIRE

Caltrans

Utility / Local

PG&E Pacific Gas and Electric Company

CITY OF OAKLAND

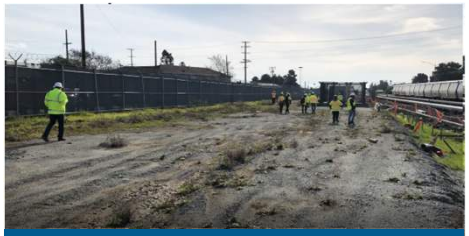
Richmond

Concord

Procurement Process

Downtown Oakland, KTF Site

Concord, CMR Site



Richmond, RPA Site

- Biddability and Constructability – Fall 2025
- Outreach to Substation Vendors – Fall 2025
- **Industry Outreach – Fall 2025**
  - Solicited input from industry vendors to validate market interest and delivery approach.
  - Gathered input on constructability, site constraints, and vault access.
  - Discussed I-980/Caltrans Right of Way access, traffic control, and staging needs.
  - Reviewed substation equipment lead times and supply-chain considerations.
  - Incorporated contractor feedback into bid phasing and testing/commissioning.
- Advertisement Date – January 5, 2026
- Pre-Proposal Conference – January 20, 2026
- Site Walks – January 27 & 28, 2026
- Number of Bid Inquiries – 231
- Addenda Released – 7
- Bid Opening – April 28, 2026

Bid Analysis

- Two (2) General/Prime Contractors Submitted Bids
- Low Bid 22% Above Engineer's Estimate
- **Largest Variance concentrated in Traction Power Facilities**

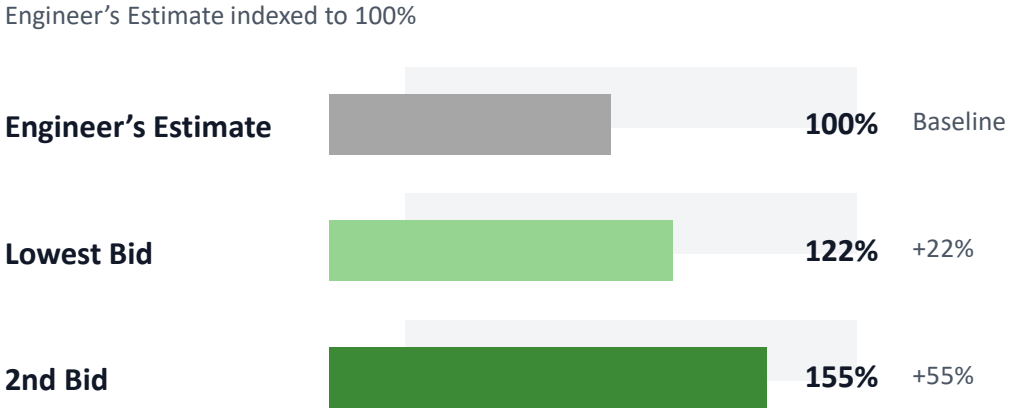
Bid Result Summary

2	General / prime contractors submitted bids
$28M	83% variance in Traction Power Facilities

Bid Reviews

- Bid responsiveness and reasonableness
- Estimate variance by major scope category
- Current market conditions before award

Bid comparison vs. Engineer's Estimate



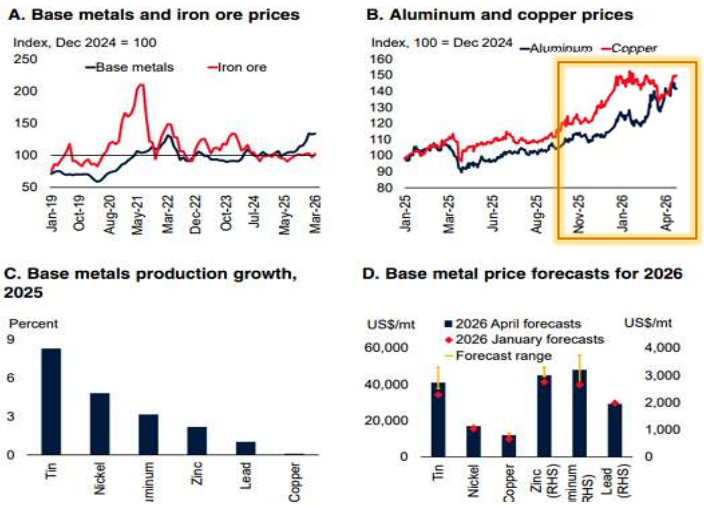
Current Market Conditions

Construction pricing remains exposed to materials volatility, tariff actions, and supply-chain constraints.

WORLD BANK: METALS & MINERALS

FIGURE 19 Metals and minerals markets

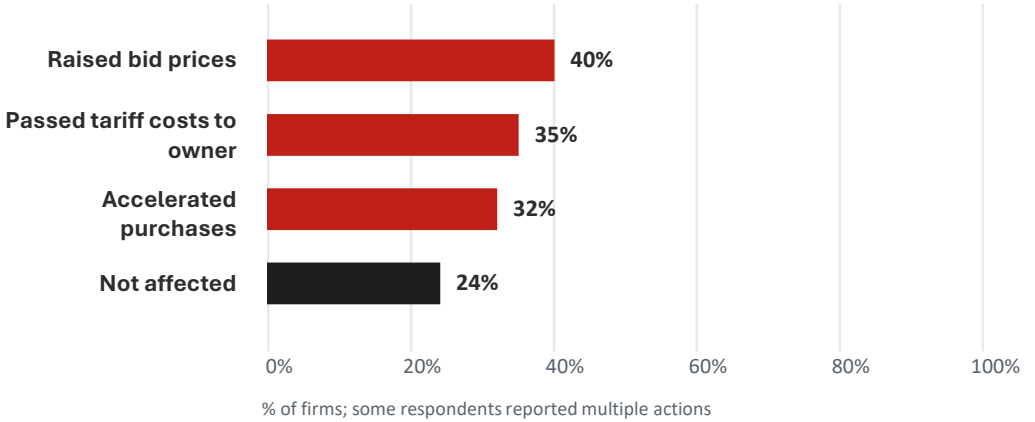
Base metal prices increased markedly in 2026Q1, while iron ore prices remained subdued. Price gains across base metals were led by aluminum, reflecting supply challenges related to the Middle East conflict, and copper, owing to broader supply concerns earlier in the quarter. Production growth remains uneven across base metals, with limited gains in some markets constraining supply. There is notable uncertainty regarding the outlook for aluminum, given elevated uncertainty about prospects for exports from the Middle East.



Source: World Bank, *2026 Commodity Markets Outlook*, April 2026, Figure 19, p. 37.

TARIFF RESPONSE BY CONTRACTORS

Contractors are adjusting bid strategies and procurement decisions in response to actual or proposed tariffs.

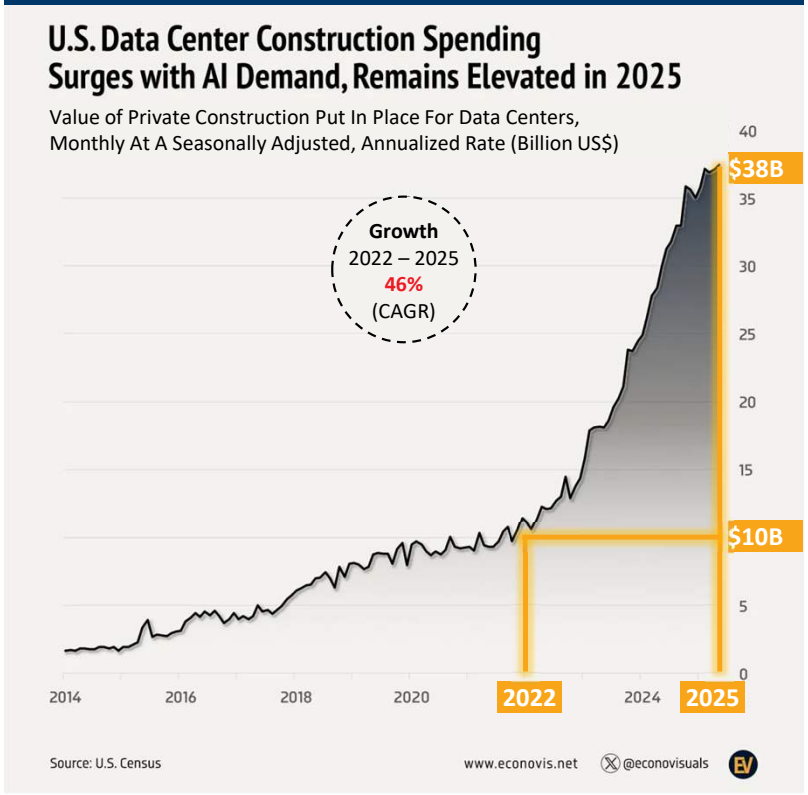


% of firms; some respondents reported multiple actions

Source: AGC and Sage, *2026 Construction Hiring and Business Outlook Survey*, January 2026.

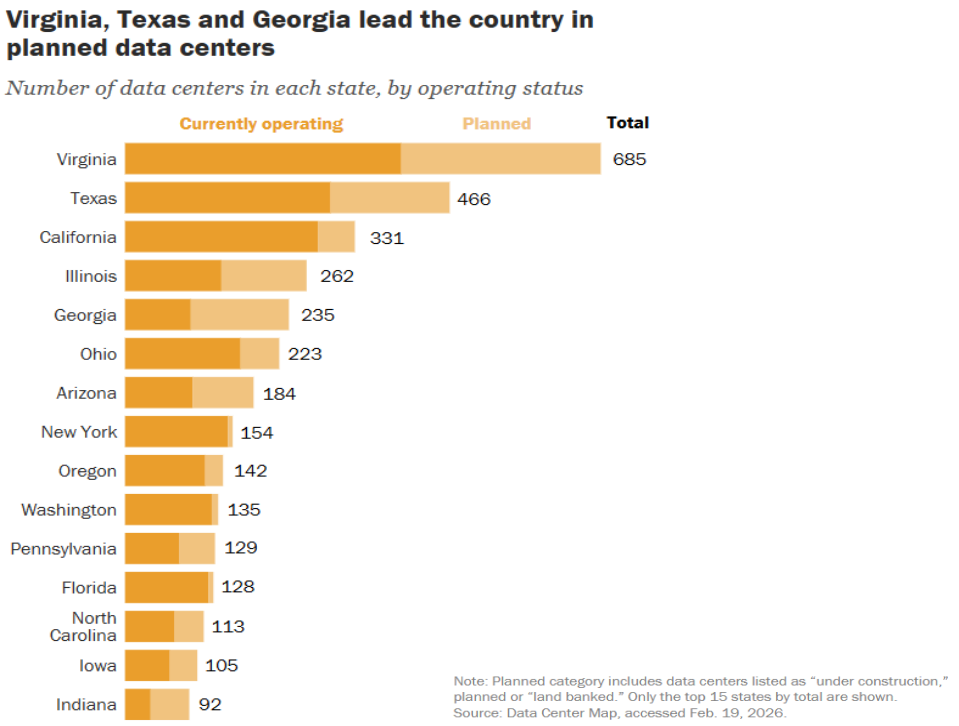
Current Market Conditions

U.S. Private Construction Spending on Data Centers



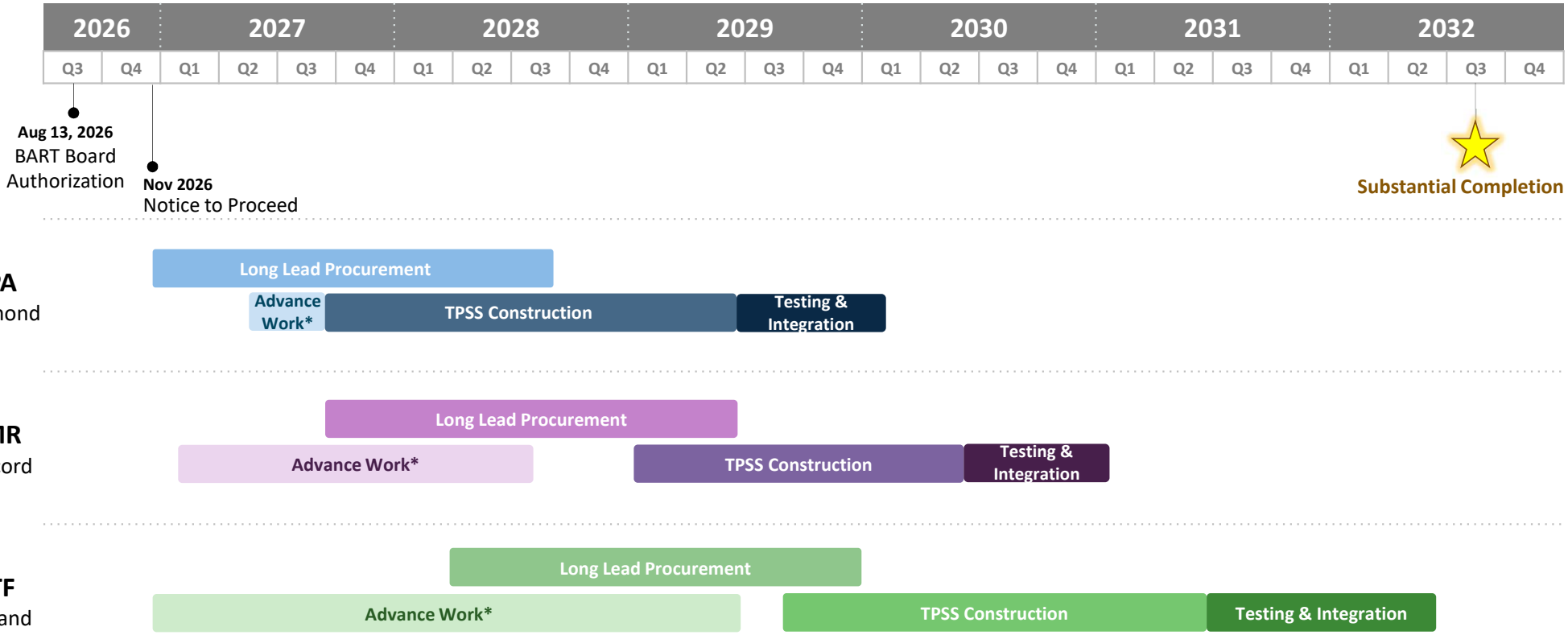
Source: U.S. Census Bureau, *Econovis/Voronoi*, July 2025

Operating and Planned Data Centers



Source: Pew Research Center, *Most New Data Centers in the U.S. Are Coming to Rural Areas,* April 13, 2026.

Construction Timeline



***Advance Work Includes**: Permits, Mobilization, Site Prep, 34.5kV Temporary Relocation*

Recommendation to the Board

Authorization for the General Manager to award Contract No. 15EK-103 for construction of three new Traction Power Substations located in Concord, Oakland, and Richmond to DMZ/Comstock JV for the bid amount of $191,304,958.30.

Thank You