

Civic Design Review (Informational)

BAY CORRIDOR TRANSMISSION & DISTRIBUTION (BCTD) **ELECTRICAL SUBSTATION 398 QUINT STREET**

August 19, 2019





BCTD project





Project brief

Site

- Area approximately 13,000 sq ft.
- Industrial zoning PDR-2 (65'-J).

Equipment

- Outdoor electrical equipment only, no occupied spaces.
- 230kV transformers and gas insulated switchgear (GIS).

Project requirements

- Perimeter wall/ fire rated barrier.
- Vehicular and staff gates.
- Vehicular access ramp.
- 2 existing trees to be removed.

Sea level rise

Site raised approximately 3-ft, electrical equipment placed on concrete pads 6-in above raised site elevation.

Stormwater management

Accounting for allowed area exclusions, project will create and/or replace <5000 sq ft of impervious surface.

New concrete sidewalk

Allow for future equipment replacement with crane.



Gas Insulated Switchgear

Project goals

- Meet electrical operational & security requirements.
- Consider proximity to nearby warehouses and light-industrial facilities.
- Create a relationship with other SFPUC projects (SEP Campus & Headworks).
- Create an elegant, understated facility.



Facilities facing project site on Davidson Avenue







Nearby facilities



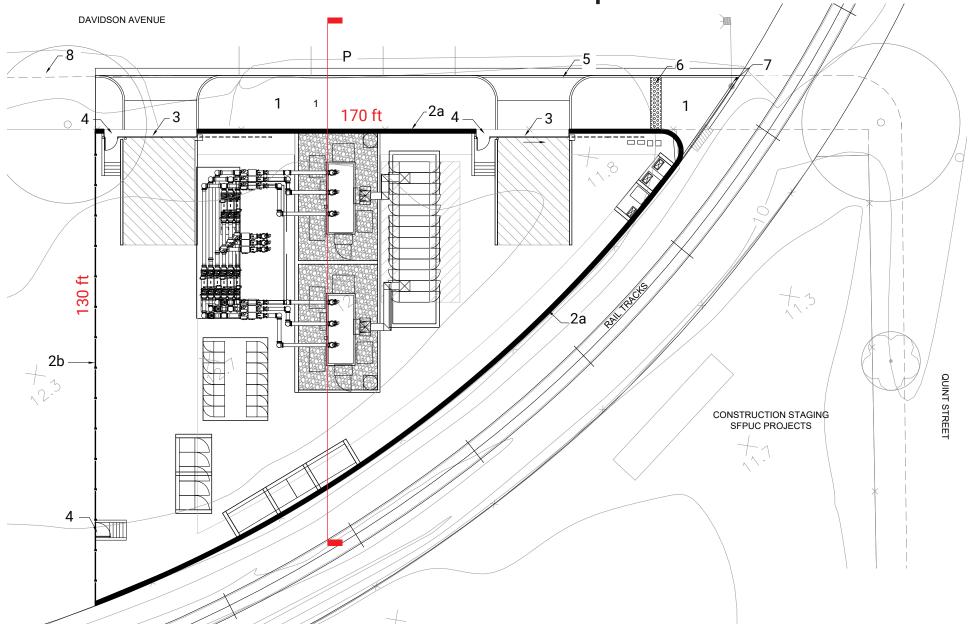


Headworks perimeter

Bruce Flynn Pump Station 20'-0" 10'-0"

SEP Campus fencing

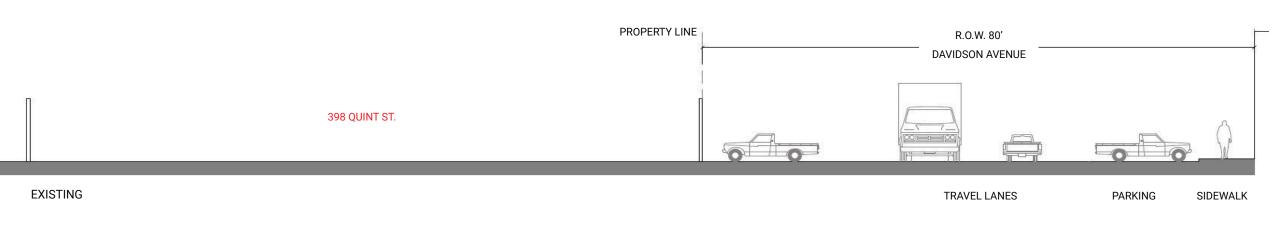
Site plan

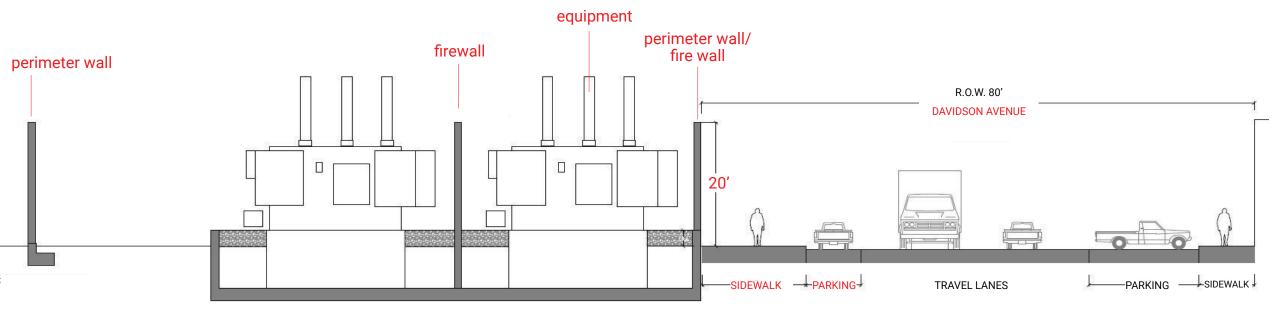


LEGEND

- 1 NEW CONCRETE SIDEWALK.
- 2a CONCRETE PERIMETER WALL.
- 2b METAL FENCE AND GATE.
- 3 VEHICULAR GATE.
- 4 STAFF GATE.
- 5 VEHICULAR DRIVEWAY.
- 6 CONCRETE TACTILE PAVERS.
- 7 SIDEWALK SLOPES TO MATCH RAIL GRADE.
- 8 FUTURE SIDEWALK EXTENSION (BY OTHERS).
- P STREET PARKING.

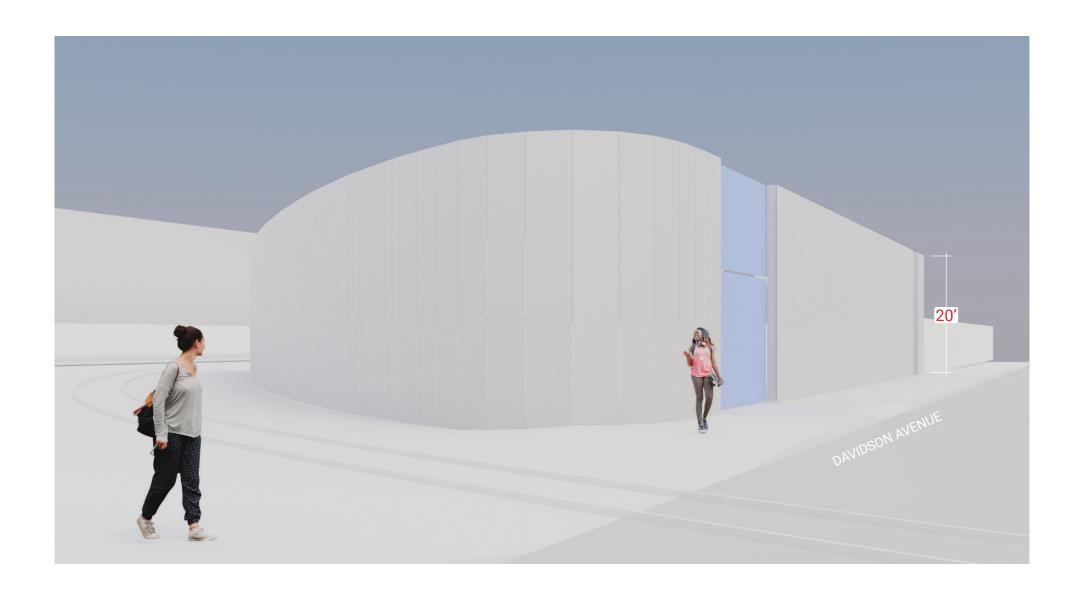
Site section



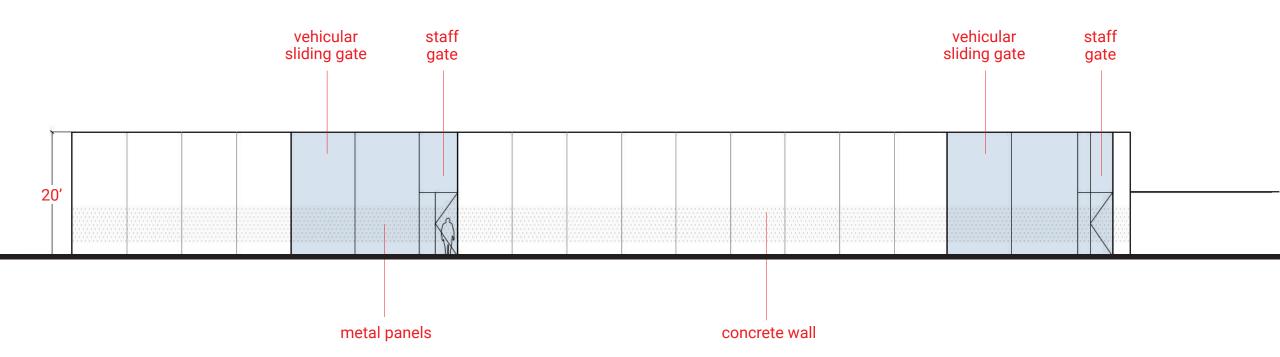


PROPOSED

Massing study



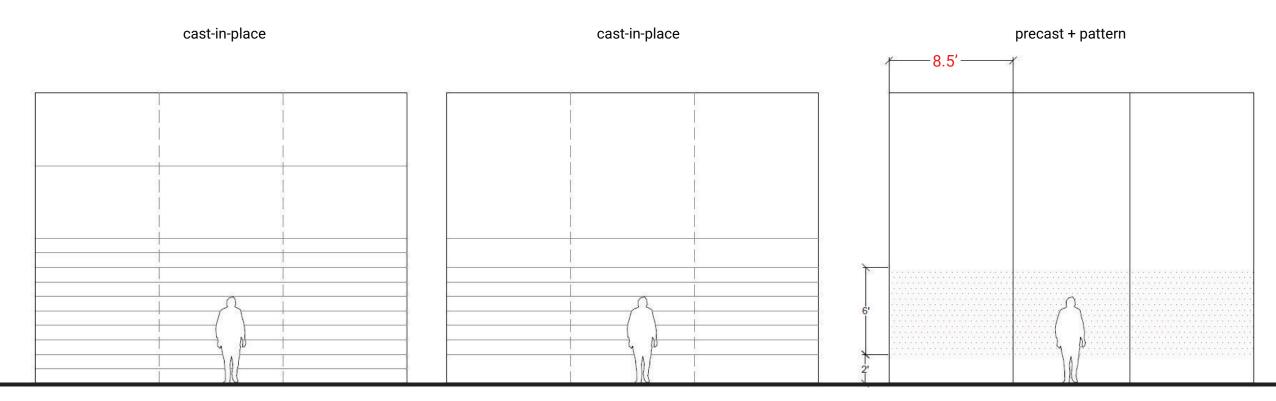
Elevation Davidson Avenue



Concrete wall options

precast cast-in-place precast + graphic concrete

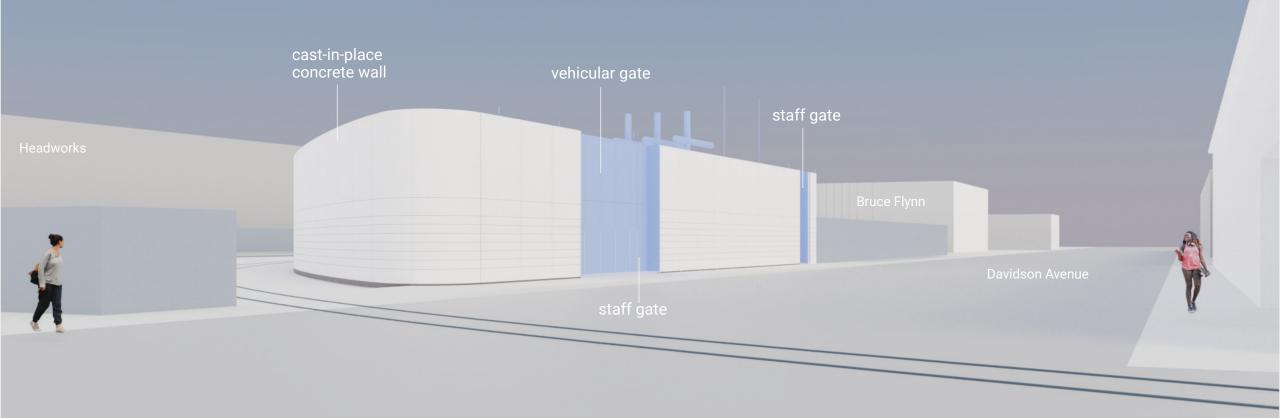
Elevation Davidson Avenue



similar to Headworks similar to Bruce Flynn SEP Campus pattern

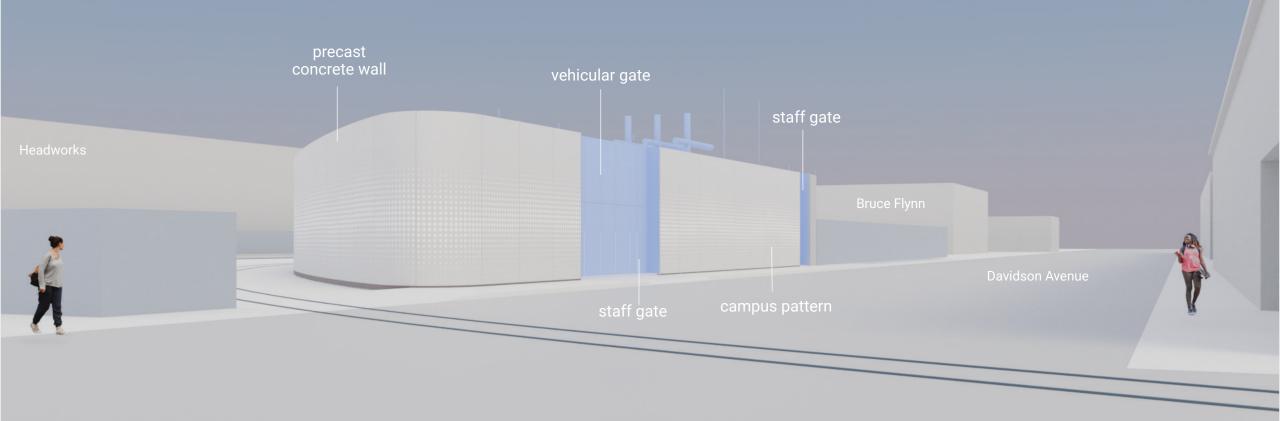
View from street corner

similar to Bruce Flynn/ Headworks



View from street corner

similar to SEP campus



Next steps

- Cast-in-place vs pre-cast concrete.
- Develop pattern approach.
- Develop design for metal gates.