CALIFORNIA
High-Speed Rail Authority

NORTHERN CALIFORNIA LIGHT MAINTENANCE FACILITY

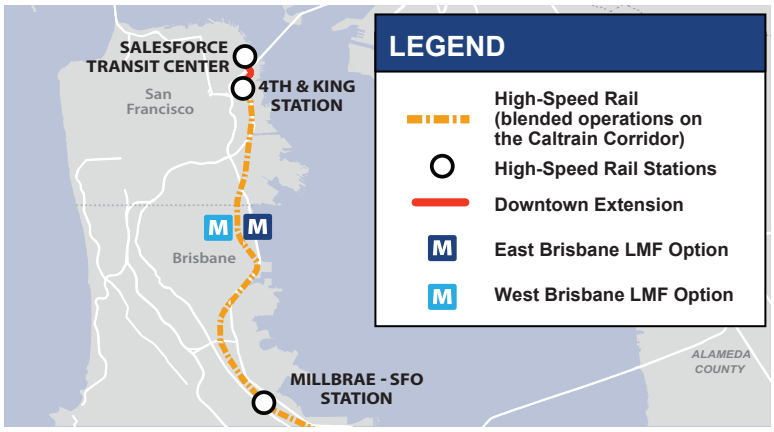
Example of a modern rail maintenance facility: Stockton's LEED® Silver ACE train maintenance facility opened in 2015. (Photos: San Joaquin Regional Rail Commission)

The Northern California Light Maintenance Facility (LMF) is one of three train maintenance facilities that will support the overall California High-Speed Rail System. The other two are (1) a heavy maintenance facility in the Central Valley and (2) a light maintenance facility in the Los Angeles area.

The LMF will serve as a location where trains are cleaned, serviced, and stored. It will also be a service point for any trains in need of emergency repair services. Maintenance operations will include exterior and interior cleaning, wheel truing, testing, and inspections. The facility will supply trains and crew to the San Francisco terminal station at the start of the day. With three overlapping work shifts, activities would occur 24 hours a day. Most maintenance activities would take place overnight, between 10:00 pm and 6:00 am. It will be designed, constructed, and operated with LEED® Gold Certification — it will be energy-efficient and environmentally sensitive.

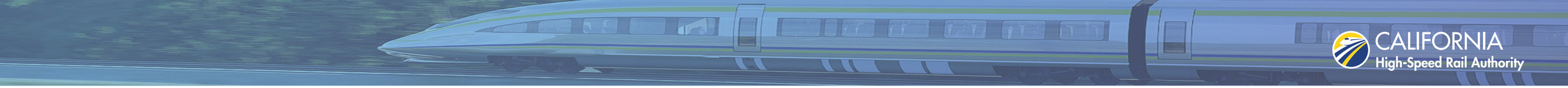
Preferred Alternative

The Authority evaluated 13 sites (including two concepts south of Gilroy) across the region for the location of the new LMF facility. Sites were analyzed based on the following criteria: **operational considerations** such as proximity to the mainline tracks and the terminal station, site size, and double-ended lead tracks; **site availability**; and **environmental considerations** including impacts to circulation, communities, cultural resources, biological resources and others. Only two sites were determined to be feasible — Brisbane East and Brisbane West. Brisbane East is included in the Preferred Alternative because it had fewer impacts to the community and natural environment than Brisbane West.



Map identifying the location of the two feasible LMF sites

Conceptual rendering of East Brisbane LMF site



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M **The East Brisbane LMF** is the Preferred Alternative. It minimizes impacts to the planned mixed-use development where up to 2,200 residential units are planned, has fewer permanent impacts on wetlands, and avoids eight acres of habitat for threatened and endangered butterfly species on Icehouse Hill. Tunnel Avenue will be realigned to the east of the LMF and the Tunnel Avenue overhead crossing will be relocated to create a new intersection with Valley Drive and Bayshore Boulevard. At Bayshore Caltrain Station, the southbound platform will be extended approximately 600' south. The East Brisbane LMF is located over an existing landfill site, which will require hazardous material remediation prior to construction. These costs have been factored into the overall cost of the LMF.

M **The West Brisbane LMF** will not affect the location of Tunnel Avenue. However, it will require relocation of the overhead crossing and a new intersection with Valley Drive and Bayshore Boulevard. At the Bayshore Caltrain Station, the southbound platform will be relocated approximately 600' south. The West Brisbane LMF is located over the old Southern Pacific Rail Yard, where hazardous materials will require remediation prior to construction.

Sites Eliminated in the Evaluation Process

		Operational Deficiencies	Site Availability	Environmental Impacts				
1	**San Francisco Yard** at Caltrain 4th and King Station/Terminal		×	×	×		×	
2	**Port of San Francisco** Piers 90-94	×	×	×		×		
3	**Cow Palace East-West Site**	×			×	×	×	×
4	**Cow Palace North-South Site**	×			×	×	×	×
5	**Georgia Pacific Site** South San Francisco, east of 101, north of Colma Creek	×	×	×	×	×		×
6	**North Side of San Francisco International Airport (SFO)**	×	×	×		×		×
7	**Hayward Yard** San Mateo east of Caltrain ROW, north of SR92	×			×	×	×	×
8	**Redwood City Wye** south of 5th Ave.	×		×	×			×
9	**Newhall Yard** north of I-880, east of Caltrain ROW	×	×					×
10 & 11	**Gilroy** two LMF concepts	×			×	×		×

For more information about the LMF, click here to open the LMF FAQ.