

H-1 (EB) Improvements Ola Lane to Likelike Highway Off-Ramp

Project Purpose:

- Improve Safety
- Relieve Congestion



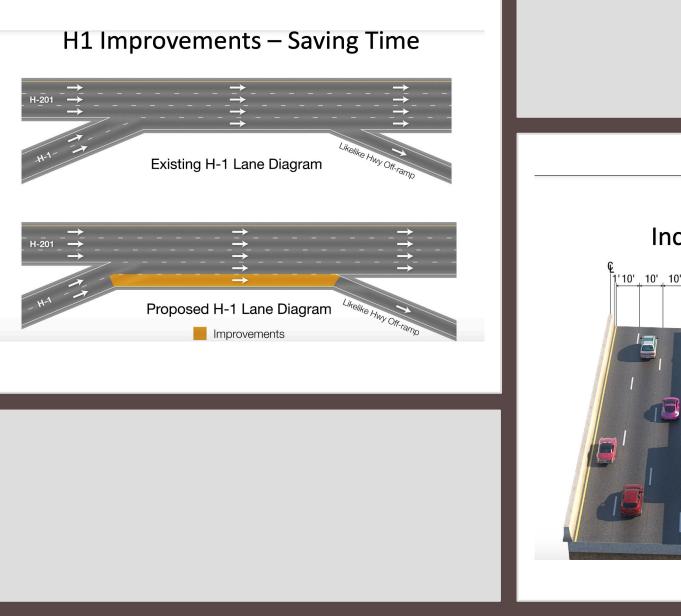
Table 3-5. Travel Time Benefits Summary										
	2023 Travel Time			2035 Travel Time						
Peak Period	Current Configuration	With Improvements	Benefit	Current Configuration	With Improvements	Benefit				
Morning (6 a.m. to 9 a.m.)	8 - 10	5.5 – 7	2.5 – 3	8.5 - 10.5	6 – 7	2.5 - 3.5				
Midday (9 a.m. to 3 p.m.)	2 - 3	1.5 – 2	0.5 – 1	2 - 3	1.5 – 2	0.5 – 1				
Afternoon (3 p.m. to 7 p.m.)	8 - 10	5.5 – 7	2.5 – 3	8.5 - 10.5	6 - 7	2.5 - 3.5				

Note: Travel time ranges are reported in minutes.



Eliminate this merge





Typical Section

Incorporate Design Improvements





Widen H1 Eastbound on Makai side



- Add inside and outside shoulders, increase lane width to 11'
- Construct retaining walls
- Lengthen Gulick Bridge on the makai and mauka sides

Current Closures

H-1 eastbound between Ola Lane and Likelike Highway

- 2 lanes closed within the project limits on Sunday nights through Thursday nights, from 8 p.m. to 4:30 a.m., and two lanes closed on Friday nights and Saturday nights from 8 p.m. to 7 a.m.
- Gulick Avenue Overpass
 - 1 lane closured on Gulick Avenue overpass bridge between 8 a.m. and 3:30 p.m. Monday through Friday.
 - Flaggers monitor and maintain alternating traffic control. They are aware of the Kalihi Waena pick ups around 2:20 p.m.

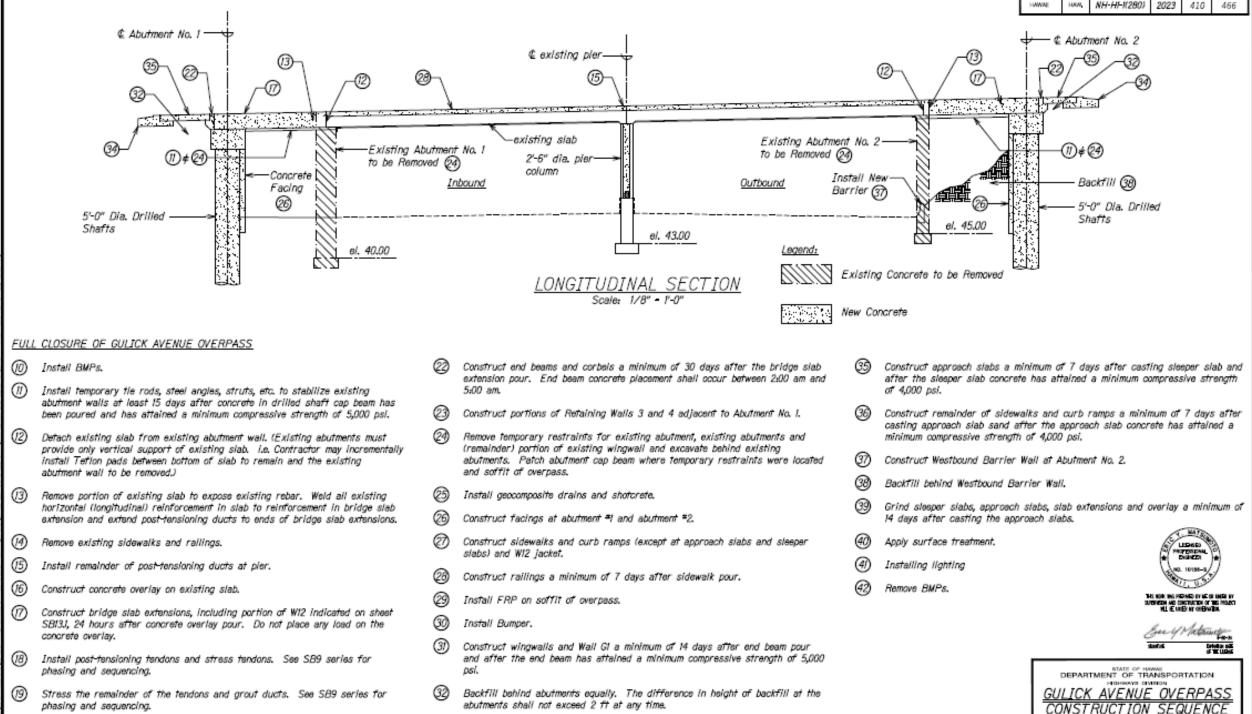
Project Milestones

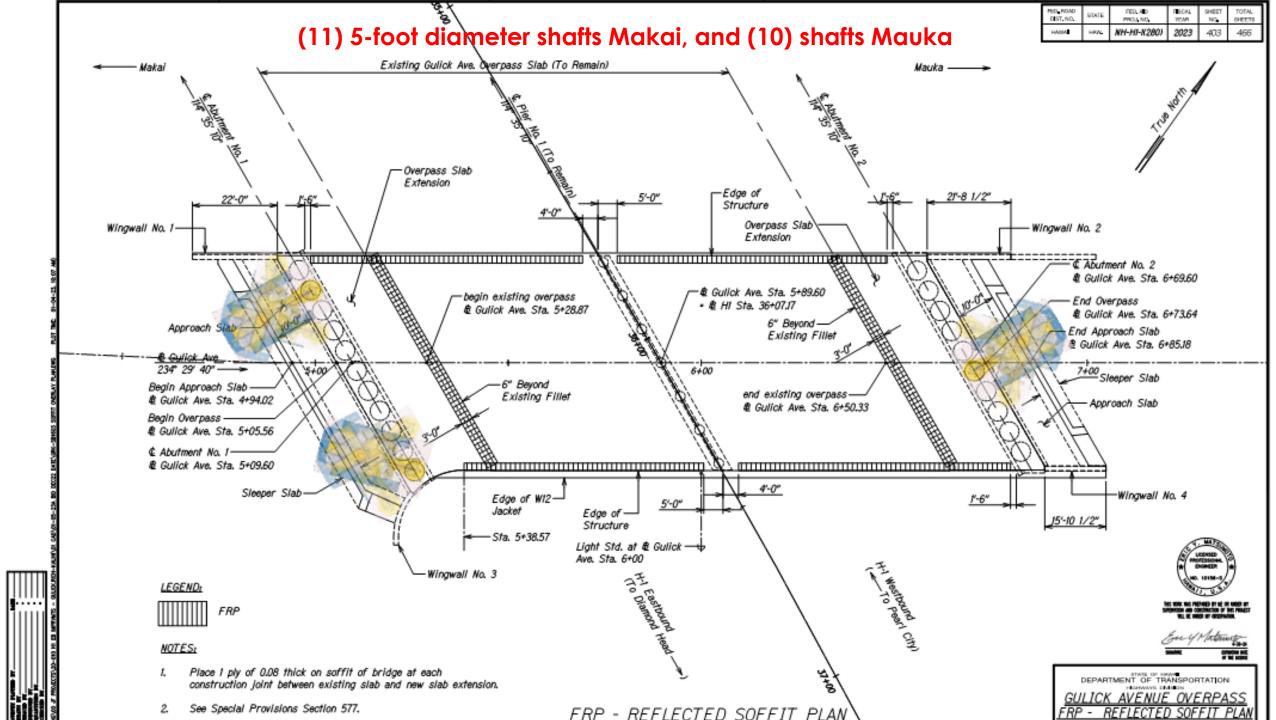
- Eastbound 36" waterline tie-in on freeway start: June, 2025
- Westbound 36" waterline tie-in on freeway start: July, 2025
- Temporary pedestrian bridge installation start: September, 2025
- HECO overhead freeway work start: September, 2025
- Gulick Drilled Shaft work start: September, 2025
- Gulick full structural work start: March, 2026
- HECO permanent relocation work start: October, 2026
- Substantial Completion: End of 2026

Gulick Avenue Overpass



- Lengthen existing bridge and move abutments on the WB and EB sides about 15.5' each
- Build retaining walls on the WB and EB side





Partial lane closures continue between 7a-4p. A lot of utility relocation work to start that will require single lane closures that will alternate directions for the next year.

Temporary ACROW pedestrian bridge will be installed around the end of September 2025 connecting Kalihi Waena park to mauka side of the freeway.

Full Closure for drilled shaft installation approximate September through early November 2025.

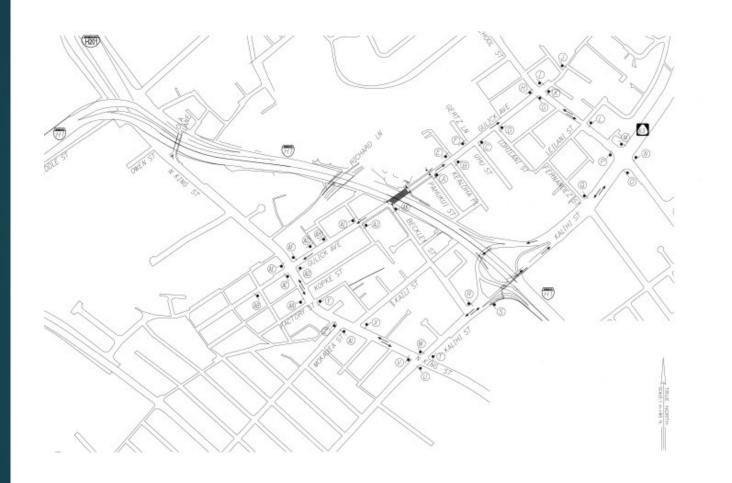
Back to Partial Closure approximate December through February 2026 for P/T duct installation work.

Then full closure of bridge from approximate March 2026 through Sep 2026 for structural elements of the bridge work.

ROAD

CLOSED

After this major work, we will be back to the 7-4p to finish up paving/close-out, etc through end of 2026.



Detour while Gulick OP is closed

H-1 lane closures:

Eastbound (majority of work):

- 24-hour shoulder lane closures through end of the project
- 9p-4:30a; 2-lane closures and King Street on ramp closure starting just after King Street off ramp to just before the Likelike off ramp.

Westbound:

 2-lane closure and Palama on ramp, Likelike on ramp closures starting just after the Palama Street off ramp to just after the Likelike off ramp H-1 lane closures for the waterline tie-in work:

24-hour 1-2 lane closures on the H1 over (6) weekends in mid 2025 to complete 36-inch waterline tie in (3 weekends EB, 3 weekends WB).

H1 Westbound:



H1 Eastbound:



<u>Work sequencing:</u> Total of 6 weekends Friday night through Monday Morning mid 2025

▶ H1 EB Direction (Makai):

- First Weekend (5 10-hour shifts): expose existing jacket, partial demo, pour reaction block, cure concrete
- Second Weekend (5 10-hour shifts): Shutdown and tie in 36" waterline, cure concrete
- Third Weekend (1-2 shifts): Backfill, pave, stripe

2-week gap piping install, hydrotest, chlorinate Mauka side

▶ H1 WB Direction (Mauka):

- First Weekend (5 10-hour shifts): expose existing jacket, partial demo, pour reaction block, cure concrete
- Second Weekend (5 10-hour shifts): Shutdown and tie in 36" waterline, cure concrete
- Third Weekend (1-2 shifts): Backfill, pave, stripe

H1 Full Closures

- Two weekend full closures will be needed for installation and removal of the temporary pedestrian bridge.
- Times for the weekend full closures:
 - Saturday 8 p.m. to midnight
 - Sunday midnight to 8 a.m.

	PHASING SCHEDULE									
PHASE	PHASE DESCRIPTION	MAJOR ACTIVITIES	CORRESPONDING DETOUR PLAN	SURFACE STREET CLOSURES	H-1 LANE CLOSURES	TRAFFIC CONTROL PLAN SCHEME				
1	H-I EB Widening Plan	Roadway widening, retaining walls, lighting, cantilever sign structures, and drainage structures along H-1 (except in the vicinity of Guilck Avenue Bridge)			H-1 EB Shoulder	Figure 1				
24	Temporary Pedestrian Bridge and Temporary Relocation of Utilities Plan	Temporary traffic signal at Gulick Avenue/Beckley St. Instail temporary pedestrian bridge and lighting, relocate utilities, and pedestrian connections.	H-I EB Closure H-I WB Closure Beckley WB Closure	Gulick Avenue (I Jane closure during non-peak and nighttime hours with police officer) Beckley Street WB Closure	H-1 EB Shoulder H-1 EB Full Closure H-1 WB Full Closure	Figure 1 H-1 Eastbound Closure H-1 Westbound Closure				
2B	Temporary Pedestrian Bridge and Temporary Relocation of Utilities Plan	Relocate existing gas and sewer on Gulick Bridge.		Gulick Avenue (I lane closure during non-peak and nightfime hours with police officer)		Figure 2				
34	Gulick Bridge Plan	Adjust temporary traffic signal at Gulick Avanue/Beckley SI. Install pedestrian crossing of Gulick Avenue to temporary pedestrian bridge, Construct bridge work per Gulick Avenue Bridge Construction Sequence, Steps I through 9. H-I center pier work.		Gulick Avenue (1 lane closure during non- peak and nighttime hours with police officer)	H-1 EB Lane Closure (up to 2 lanes) H-1 WB Lane Closure (up to 2 lanes)	Figure 2, 3, 4 ¢ 5				
3B	Gulick Bridge Plan	Construct bridge work per Gulick Avenue Bridge Construction Sequence, Steps 10 through 23.	Gulick Bridge Full Closure Pedestrian Bridge							
3C	Gulick Bridge Plan	Remove existing bridge abutments and wingwalls per Gulick Avenue Bridge Construction Sequence, Step 24.	Gulick Bridge Full Closure Pedestrian Bridge		H-1 EB Lane Closure (up to 2 lanes) H-1 WB Lane Closure (up to 2 lanes)	Figure 3, 4 ¢ 5				
3D	Gulick Bridge Plan	Construct facing at new abutments per Guilick Avenue Bridge Construction Sequence, Steps 25 through 42. Install drainage infrastructure and H-1 roadway pavement under bridge. Install Westbound barrier wall.	Gulick Bridge Full Closure Pedestrian Bridge		H-1 EB Lane Closure (1 lane) H-1 WB Lane Closure (1 lane)	Figure 3 ¢ 5				
3E	Gulick Bridge Plan	Remove temporary pedestrian bridge. Install permanent traffic signal and remove temporary signal infrastructure.	H-I EB Closure H-I WB Closure	Gulick Avenue (1 lane closure during non-peak and nighttime hours with police officer)	H-1 EB Full Closure H-1 WB Full Closure	H-1 Eastbound Closure H-1 Westbound Closure				
4	Kalihi Stream Bridge Plan	Relocate existing sewer and gas line on Richard Lane. Relocate existing utilities on bridge. Construct bridge work per Richard Lane/Kailhi Stream Bridge Construction, Steps 2 Inrough 14.		Richard Lane (1 lane closure during non-peak and nightlime hours with police officer)	H-I EB Shoulder H-I EB Lane Closure (up to 2 lanes) H-I WB Lane Closure (I lane)	Figure I, 2, 3, 4 ¢ 5				
5	H-1 EB Final Paving and Striping Plan	Pave final lift of pavement. Install final striping and pavement markings. Restore park property, private property, driveways and sidewalk.			H-1 EB Lane Closure (up to 2 lanes)	Figure 3 ¢ 4				

Work at Gulick Avenue



Any Questions?