

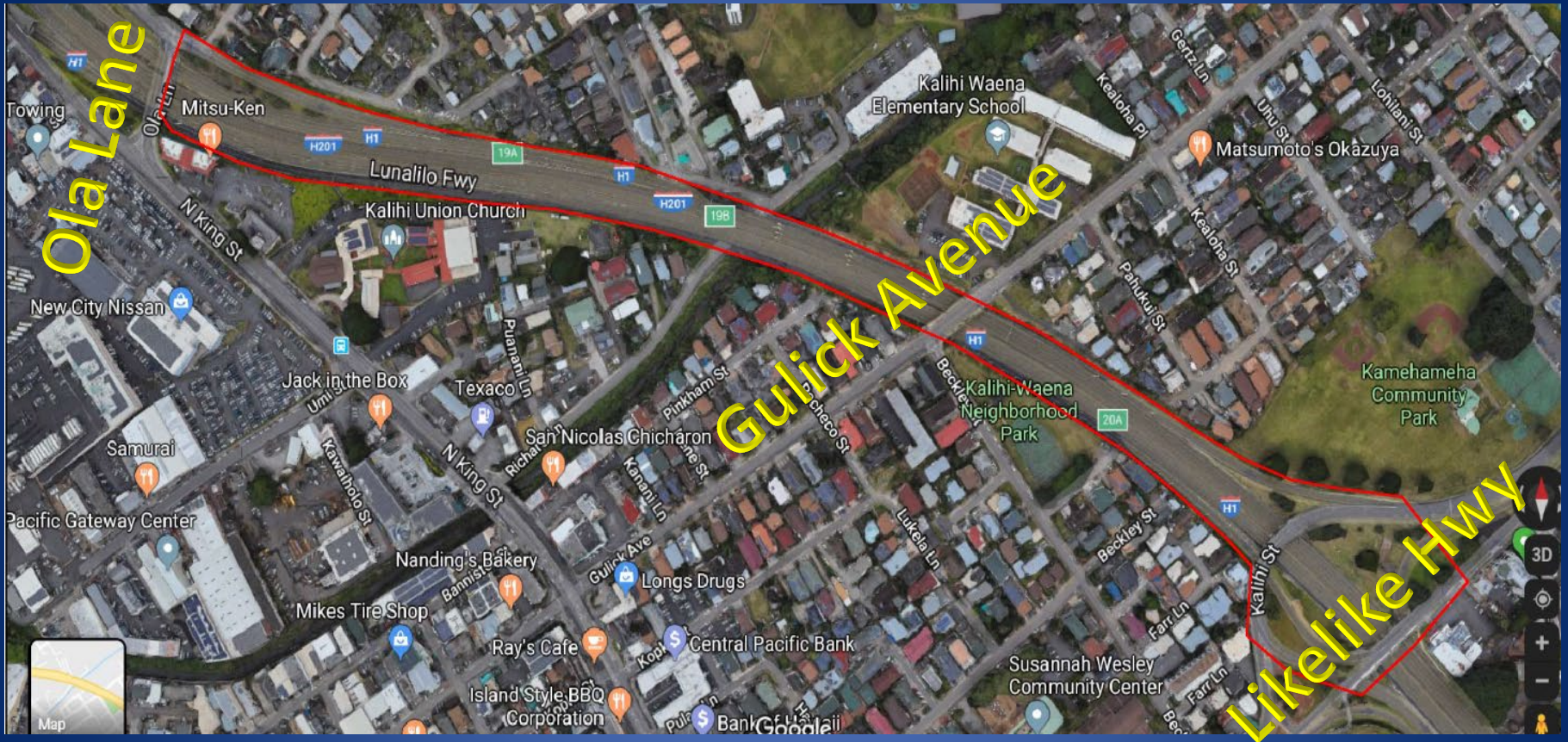


# H-1 (EB) Improvements Ola Lane to Likelike Highway Off-Ramp Public Information Meeting

# Agenda

- Project Location
- Project Purpose
- Project Improvements
- Temporary Traffic Impacts
- Temporary Pedestrian Bridge
- Project Schedule
- Questions?

# Project Location



**H1 Eastbound from Ola Lane to Likelike Highway Off-Ramp**

# Project Purpose

- Improve Safety
- Relieve Congestion

# Project Objectives

- Improve safety
- Reduce congestion
- Maximize right-of-way usage





## Project Benefits

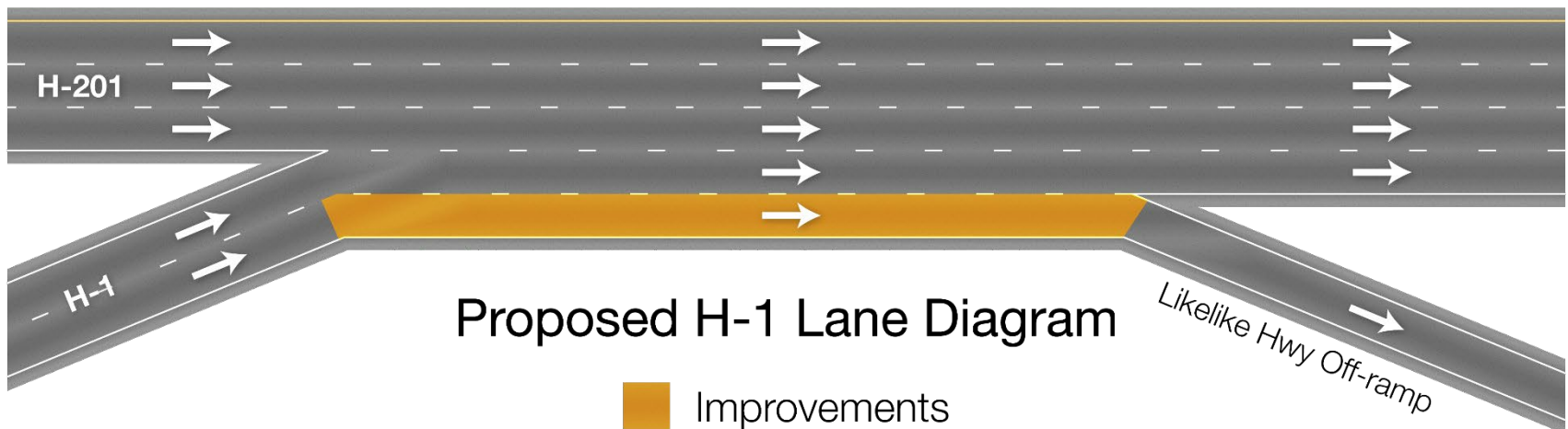
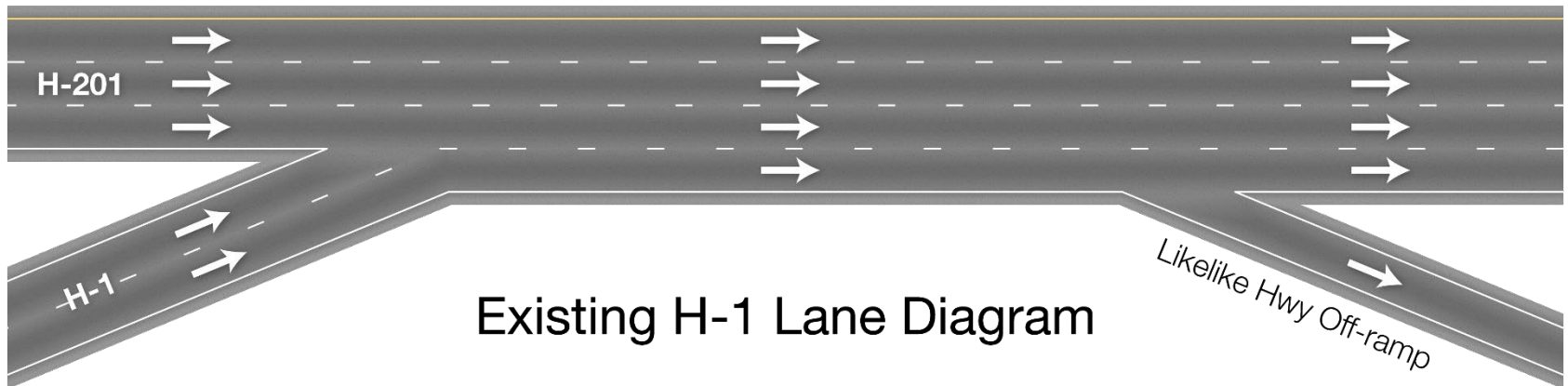
- Improving Safety
- Saving Time
- Saving Money



# Middle Street Merge – East of Ola Lane

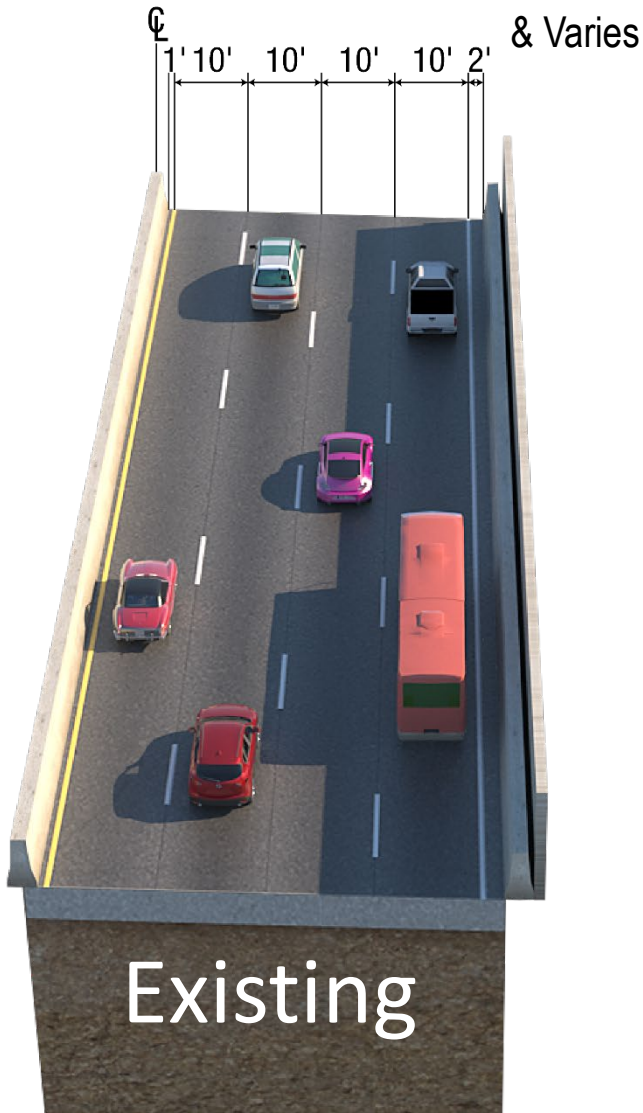


# H1 Improvements – Saving Time



# Typical Section

## Incorporate Design Improvements





# Widen H1 on the Makai side



- Add inside and outside shoulders, increase lane width to 11'
- Construct retaining walls
- Minimize ROW at Kalihi Union Church

# H1 EB – Kalihi Stream Overcrossing



**Widen H1 over Richard Lane  
and Kalihi Valley Stream**

- Widen/build H1 bridge over Richard Lane and Kalihi Valley Stream (approximately 11'-6" wide)

# Kalihi Stream – Looking Upstream at H1

- Stream walls are eligible for listing on the Federal and State registers of historic places
- Project has no adverse effect to the walls.



# Widen H1 on the Makai side



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

# Gulick Ave Overcrossing



- Lengthen existing bridge and move abutments on the WB and EB sides about 15.5' each
- Maintain center pier location and construct infill wall above existing median barrier
- Build retaining walls on the WB and EB side
- Vertical clearance increased by 6"
- Limited work in the WB direction of H1

# Temporary Pedestrian Bridge

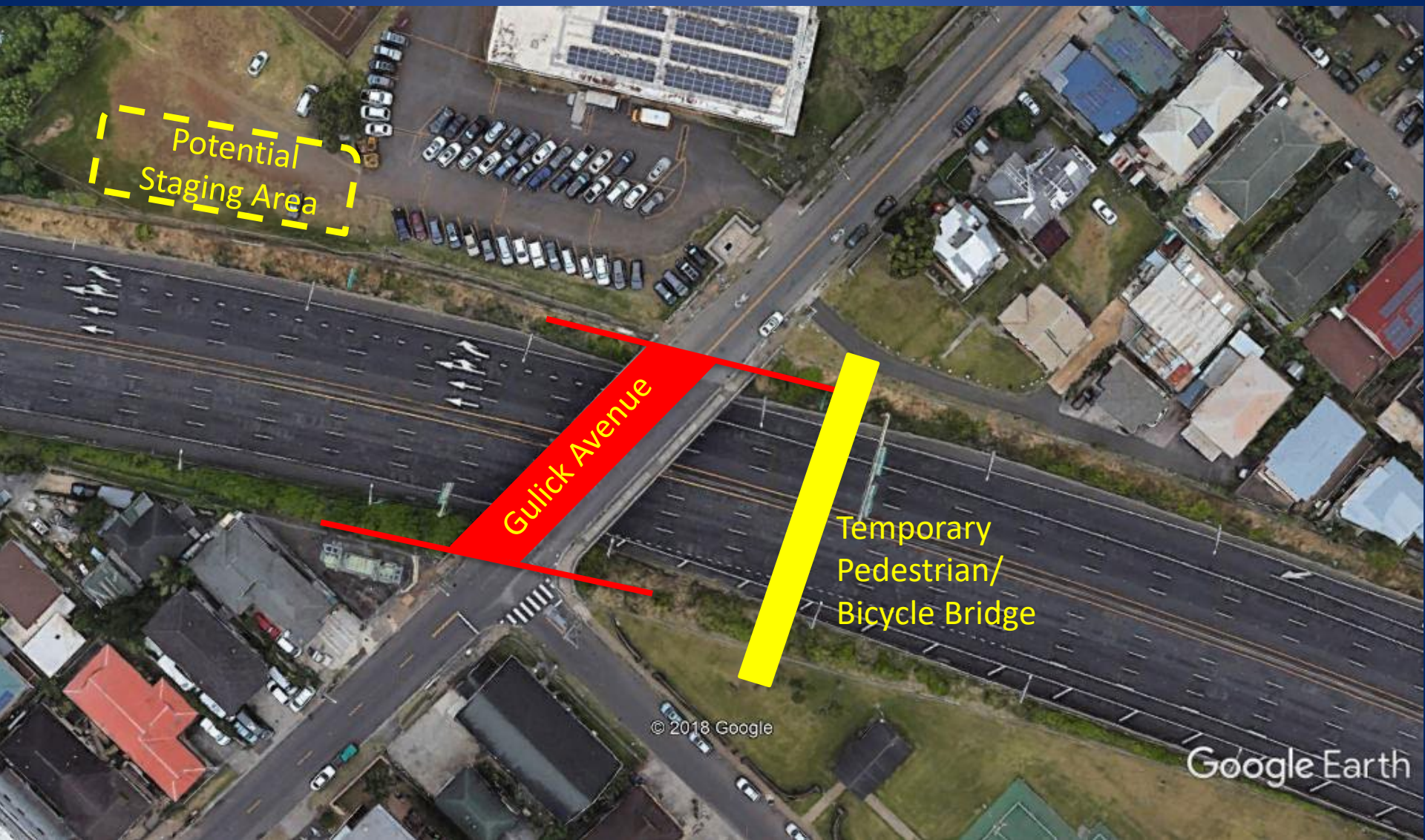
## Makai Touchdown in Kalihi-Waena Neighborhood Park



# H1 Temporary Traffic Impacts

- EB shoulder closure during the project
- Temporary lane closures (non-peak and night time)
  - Typically, between 9 pm and 4 am
- Full closure
  - Temporary pedestrian and bicycle bridge needed to provide 24 hour access
  - H1 WB and EB needs to be closed twice – during the installation of the temporary pedestrian/bicycle bridge and during the removal
  - Typically, between 8 pm Saturday and 8 am Sunday

# Gulick Ave – Partial Closure



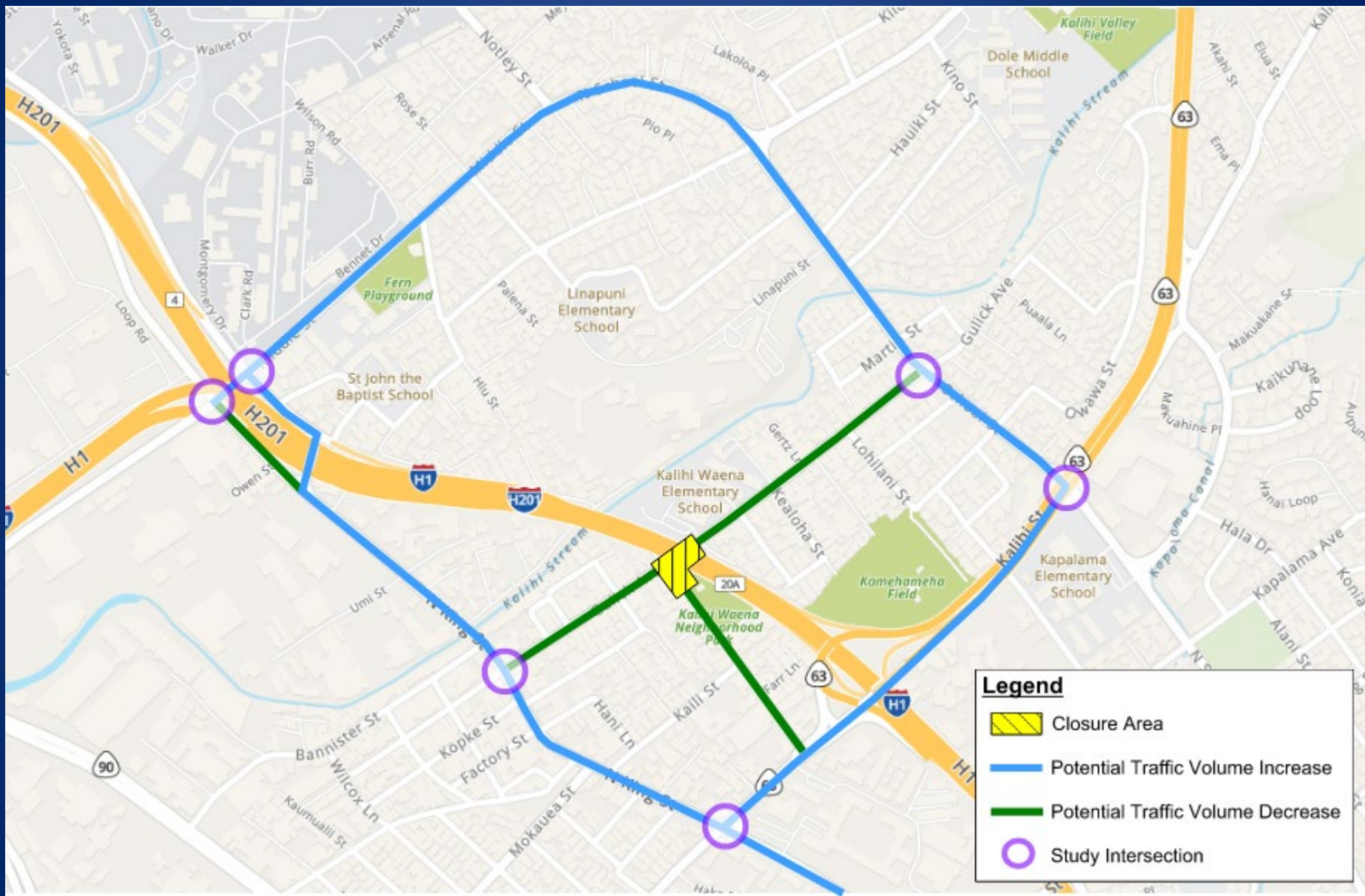


# Gulick Temporary Traffic Impacts

- Lanes narrowed and shifted to allow a 10-12' work area
  - Maintaining 24' for two lanes (one in each direction)
- Lane closures (non-peak and night time)
  - Non-peak is typically between 8:30 am to 3:30 pm
  - Any lane closures to be coordinated with Kalihi Waena Elementary School
- Full closure of Gulick Avenue (3 months)
  - Necessary to post-tension (strengthen) the bridge as it is being lengthen
  - New concrete slab

# Gulick Avenue – Full Closure

- Temporary full closures of the Gulick Avenue bridge necessary during construction of the Gulick Bridge
- A traffic assessment was done to look at the anticipated local street traffic detours around Gulick Avenue
- Peak hour traffic impact to nearby intersections was studied
- During the peak the average vehicle delay may increase by up to 1 minute at congested intersections
- Most intersections would not experience noticeable difference in delay
- Impacts would be temporary and would only affect isolated turning movements



# Gulick Closure - Study Intersections

# Richard Lane Construction Traffic Impacts

- Lane closures (non-peak and night time)
- Flaggers to guide traffic will be required



# Project Schedule

- January 2022: Draft Environmental Assessment
  - Comments due by January 15, 2022
- March 2022: 90% PS&E
- May 2022: 100% PS&E
- June 2022: Ready to Advertise
- 2022 - 2024: Construction



***Mahalo!***

**Questions?**

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