

# Farrington Highway Corridor Study - Recommended Solutions (Hakimo Rd to Laaloa St)

• Drainage Study and  
Drainage improvements

• Install speed feedback  
sign for southbound lanes

Haleakala Ave  
• Add short right turn lanes

Nanakuli Ave Solutions:

1 2 3

• Install speed feedback  
sign for northbound lanes

• Computerized Traffic control System,  
Phase 15 - Nanakuli to coordinate and  
optimize 11 signals, expand to include  
Laaloa Street and Waiomea Street

Piliokahi Ave Solutions:

1 2 3 4 5

Hakimo St Solutions:

1 2 3 4 5

Lualualei Naval Rd Solutions:

1 2 3 4

Helelua St Solutions:

1 2 3 4

Laumania Ave Solutions:

1 6

• convert bridge to allow  
bike and pedestrian traffic

Congestion Solutions

Resilience Solutions

Safety Solutions:

1



Signing and marking  
improvements.

2



Include leading ped  
interval at signal.

3



Pedestrian  
countdown timer.

4



Raised median.

5



Left turn lane offset.

6



Prohibit left-out movement.

## Overall solutions



Proposed shared-use path  
(Hakimo Rd to Helelua St, 6750ft)  
and (Nanakuli Ave to Aliinui Dr,  
13,650 ft)



Extend 5th lane with new sidewalk



Existing 5th lane and shared use  
path (approx 3000 ft)



Upgrade and widen mauka side-  
walk Piliokahi Ave to Helelua Street

Install bright street lighting ☀ for,



Signalized crosswalks and,

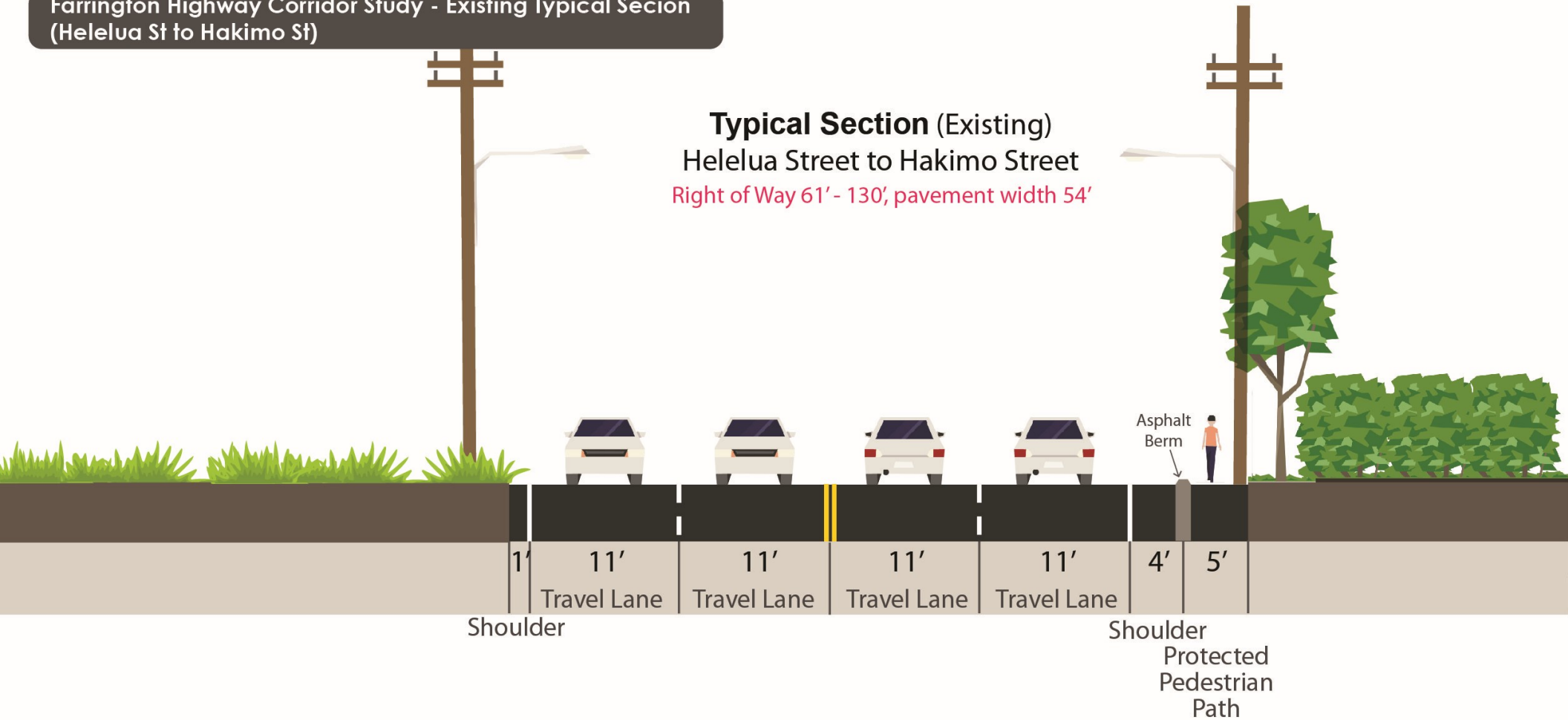


Unsignalized crosswalks.

Not to Scale

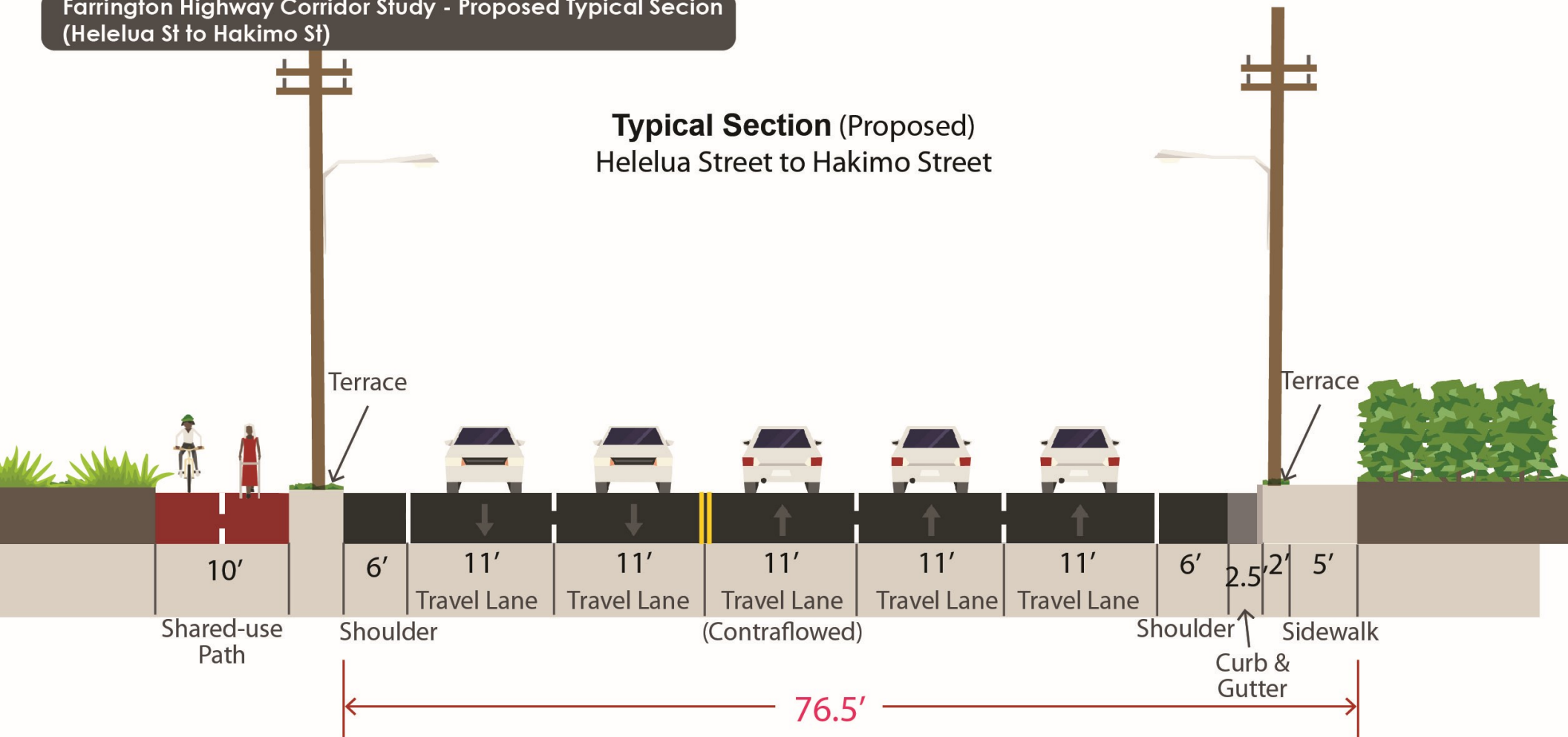
Farrington Highway Corridor Study - Existing Typical Section  
(Helelua St to Hakimo St)

**Typical Section (Existing)**  
Helelua Street to Hakimo Street  
Right of Way 61' - 130', pavement width 54'



Farrington Highway Corridor Study - Proposed Typical Section  
(Helelua St to Hakimo St)

**Typical Section** (Proposed)  
Helelua Street to Hakimo Street



## Farrington Highway Corridor Study - Recommended Solutions (Hakimo Road to Laaloa Street) - Nanakuli

### June 2020

#### SAFETY

Implement Safe Routes to School Program at Nanakuli Avenue intersection, includes raised median	\$	60,500	
Install high-visibility yellow, continental type crosswalks at Nanakuli Ave (incl in SRTS)			
Install pedestrian countdown timers at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave and Piliokahi Ave	\$	67,900	
Raised Median at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave and Piliokahi Ave intersections	\$	214,300	
Verify traffic signal yellow and red times meet ITE Recommended Practice			HDOT/C&C
Implement a leading pedestrian interval at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave and Piliokahi Ave intersections	\$	1,900	
Convert an open median to a left-in only median at Laumania Ave.	\$	47,600	
Improve left-turn lane offset to create positive offset at Hakimo Rd and Piliokahi Ave.	\$	66,900	
Implement systemic signing and marking improvements at Laumania Ave.	\$	7,000	
Implement systemic signing and visibility improvements at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave, and Piliokahi Ave	\$	34,800	
Increase retroreflectivity of STOP signs at Laumania Ave	\$	1,400	
Increase illuminance from low (<0.2 fc) to Medium >0.2 fc and <1.1 fc @ 13 crosswalks	\$	463,800	
Install dynamic speed feedback signs at both ends of 25 mph zone	\$	44,000	
Convert bridge by Laumania to allow bike and pedestrian traffic.	\$	32,000	
Upgrade and widen sidewalk from Pohakunui to Helelua along mauka side of Farrington Highway. Add C&G (mauka) & 6' shoulders both sides	\$	10,171,700	
Build Shared Use Path from Nanakuli to Pohakunui (4,000 ft)	\$	1,625,300	
<b>SUBTOTAL</b>	<b>\$</b>	<b>12,839,100</b>	<b>New improvements only</b>
Build Shared Use Path from Pohakunui to KoOlina (9,900 ft), partnering with OMPO, C&C, DHHL, PPP, HBL, others	\$	18,604,000	~5+ year timeline

#### CONGESTION

Extension of 5th Lane and Contraflow (Helelua to as far as Hakimo) approx 6,900 ft, incl mauka sidewalk, shoulders, shared use path	\$	32,000,000	Funded by Rental Car Surcharge (RCS)
Computerized Traffic Control System Phase 15 - Nanakuli	\$	3,800,000	City & County of Honolulu project
Computerized Traffic Control System Phase 15 - Nanakuli, expand to include Laaloa St. and Waiomea St. intersections	\$	500,000	"
Restripe to add short right turn lane at Haleakala from side street approach	\$	6,500	

#### RESILIENCE

Focused Drainage Study - Improve drainage to alleviate flooding at Princess Kahanu	\$	65,000	
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# Farrington Highway Corridor Study - Recommended Solutions (Hakimo Road to Laaloa Street) - Nanakuli

## June 2020

### NANAKULI PHASING

#### 1 Short Term (6 mo - 2 years), within Right of Way, Low Cost

Implement Safe Routes to School Program at Nanakuli Avenue intersection, includes raised median	\$	60,500	Apply for SRTS grant
Install high-visibility yellow, continental type crosswalks at Nanakuli Ave (incl in SRTS)			
Install pedestrian countdown timers at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave and Piliokahi Ave	\$	67,900	
Raised Median at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave and Piliokahi Ave intersections	\$	214,300	
Verify traffic signal yellow and red times meet ITE Recommended Practice			HDOT/C&C
Implement a leading pedestrian interval at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave and Piliokahi Ave intersections	\$	1,900	
Convert an open median to a left-in only median at Laumania Ave.	\$	47,600	
Improve left-turn lane offset to create positive offset at Hakimo Rd and Piliokahi Ave.	\$	66,900	
Implement systemic signing and marking improvements at Laumania Ave.	\$	7,000	
Implement systemic signing and visibility improvements at Hakimo Rd, Lualualei Naval Rd, Helelua St, Nanakuli Ave, and Piliokahi Ave	\$	34,800	
Increase retroreflectivity of STOP signs at Laumania Ave	\$	1,400	
Install dynamic speed feedback signs at both ends of 25 mph zone	\$	44,000	
Convert bridge by Laumania to allow bike and pedestrian traffic.	\$	32,000	City & County of Honolulu owned
Restripe to add short right turn lane at Haleakala from side street approach	\$	6,500	
	\$	<b>584,800</b>	

#### 1 Short Term (6 mo to 2 years), within Right of Way, Medium Cost

Increase illuminance from low (<0.2 fc) to Medium >0.2 fc and <1.1 fc @ 13 crosswalks	\$	<b>463,800</b>	
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#### 1 Short Term (6 mo to 2 years), within Right of Way, High Cost, already in budget

Extension of 5th Lane and Contraflow (Helelua to as far as Hakimo) approx 6,900 ft, incl mauka sidewalk, shoulders, shared use path, drainage	\$	32,000,000	Funded by Rental Car Surcharge (RCS)
Computerized Traffic Control System Phase 15 - Nanakuli	\$	3,800,000	City & County of Honolulu project
Computerized Traffic Control System Phase 15 - Nanakuli, expand to include Laaloa St. and Waiomea St. intersections	\$	500,000	"
	\$	<b>36,300,000</b>	

#### 2 Intermediate Term (~2-5 years), Outside Right of Way, Medium to High Cost, Permitting needed, needs survey/design

Build Shared Use Path from Nanakuli to Pohakunui (4,000 ft)	\$	<b>1,625,300</b>	
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#### 2 Intermediate Term (~2-5 years), Within Right of Way, High Cost, needs survey/design

Upgrade and widen sidewalk from Pohakunui to Helelua along mauka side of Farrington Highway. Add C&G (mauka) & 6' shoulders both sides	\$	<b>10,171,700</b>	
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#### 3 Longer Term (~5-10 years), Outside Right of Way, High Cost, needs survey/design, permitting

Build Shared Use Path from Pohakunui to KoOlina (9,900 ft), partnering with OMPO, C&C, DHHL, PPP, HBL, others	\$	<b>18,604,000</b>	
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NOTE: Estimated costs include 3-5% traffic control, 5-10% engineering/design, 10% mobilization and 30% contingency