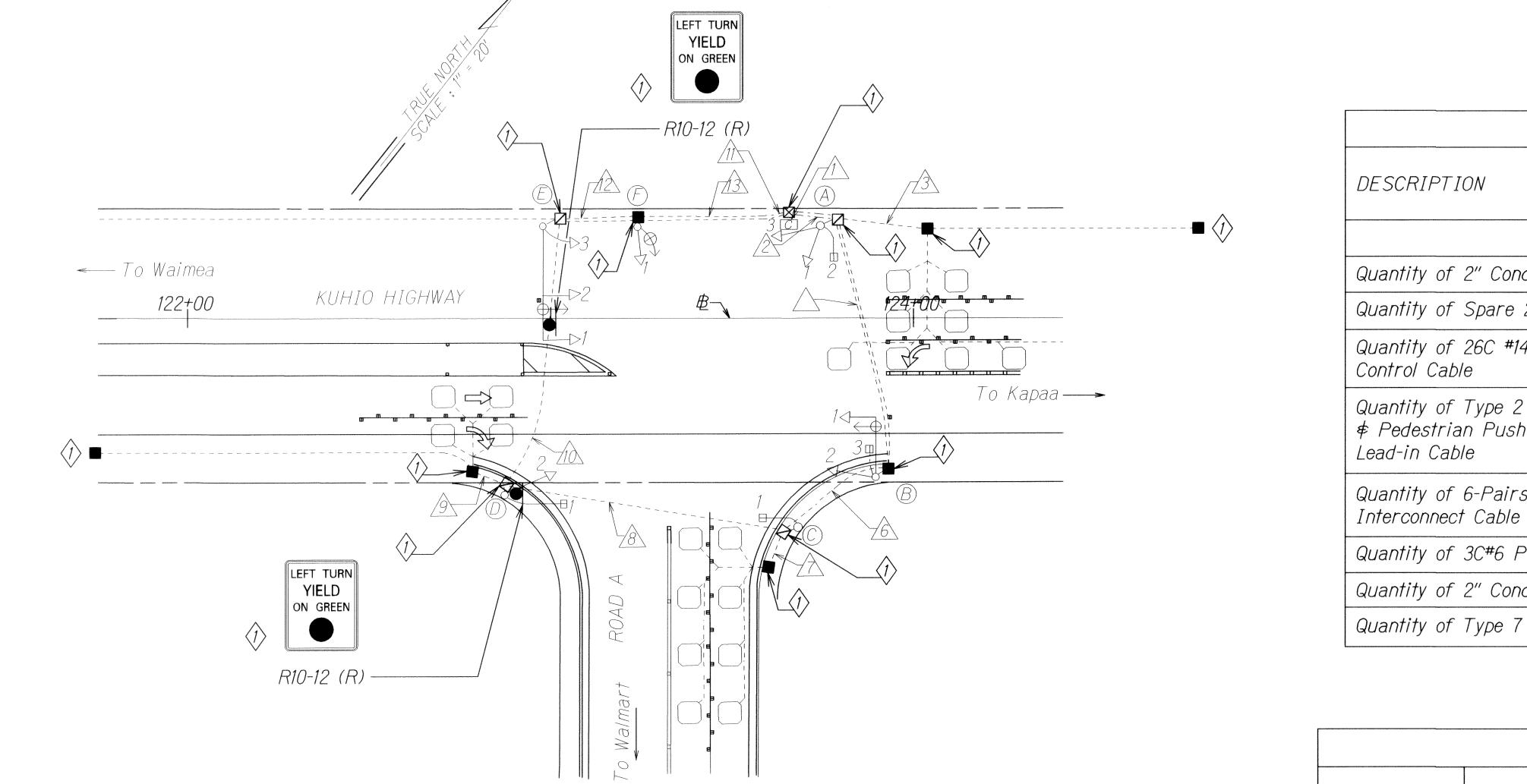


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-01-13M	2013	ADD.9	18



CONDUIT AND CABLE SCHEDULE														
DECODIDEION			DELTA ITEM NO. (A)											
DESCRIPTION		$\triangle$	2	3	4	<u>\$</u>	<u>6</u>		8	9	10		12	13
EXISTING CONDUIT AND CABLE														
Quantity of 2" Conduit	(E)	6	3	2	2	2	2	1	2	1	2	1	3	3
Quantity of Spare 2" Conduit	(E)													
Quantity of 26C #14 Traffic Control Cable	(R)	2	1			1	1	1	1		1		1	1
Quantity of Type 2 Loop Detect	tor (R)	8	6	3	2	3	2		1	2	2		2	2
Quantity of 6-Pairs #19 Conduc Interconnect Cable	ctor, (R)	1	1	1	1								1	1
Quantity of 3C#6 Power Cable	(R)	1										1		
Quantity of 2" Conduit	(E)	1	1			1	milenten ( )						1	1
Quantity of Type 7 Cable	(R)	3	1			1							1	2

/ FGFND	
Represe Barrant, Nat' Speace I T Sant's	_
(E) Existing unit to remain. Paint Type II Standard with Mast Arm.	5
with Mast Arm.	
(R) Remove and replace unit with new unit.	

DESC	CRIPTIO	N OF EX	KISTING TRAFFIC SIGNALS
POLE	SIGNAL	POLE	SIGNAL HEAD MOUNTING
LETTER	HEAD NO.	TYPE	
Α	1 <b>\$</b> 3	I-10' (R)	Slipfitter, One-way Pole Bracket, One-way
В	1	II-16'	Mast Arm, One-way
	2 <b>≢</b> 3	(E)	Pole Bracket, Two-way
С	1	⟨ĵ⟩ I-8′ (E)	Slipfitter, One-way
D	1	I-10'	Pole Bracket, One-way
	2	(R)	Slipfitter, One-way
Ε	1 <b>\$</b> 2	II-30'	Mast Arm, One-way
	3	(E)	Pole Bracket, One-way
F	1	I-10' (R)	Slipfitter, One-way

TRAFFIC SIGNAL HEAD SCHEDULE											
Traffic Signal Head Type and Description	RYG										
	12" RYG Traffic Signal Head	12" RYG← Traffic Signal Head	12″ RYG ← Traffic Signal Head	12" RY 1 Traffic Signal Head	Pedestrian Signal Head						
Pole Letter Signal Head Number	A-1 B-2 E-3 F-1 (R)	D-2 (R)	E-1 (R)	A-3 E-2 (R)	A-2 B-3 C-1 D-1 (E)						

6/14/13 \( \hat{1} \right) \) Added Signs. \( \hat{1} \right) \) Revised Tra

DATE

Revised Traffic Pullbox Symbology.

Revised Description of Existing Traffic Signals for Pole C.

REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN

KUHIO HIGHWAY

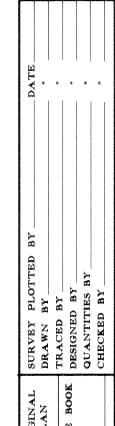
Traffic Signal Rehabilitation

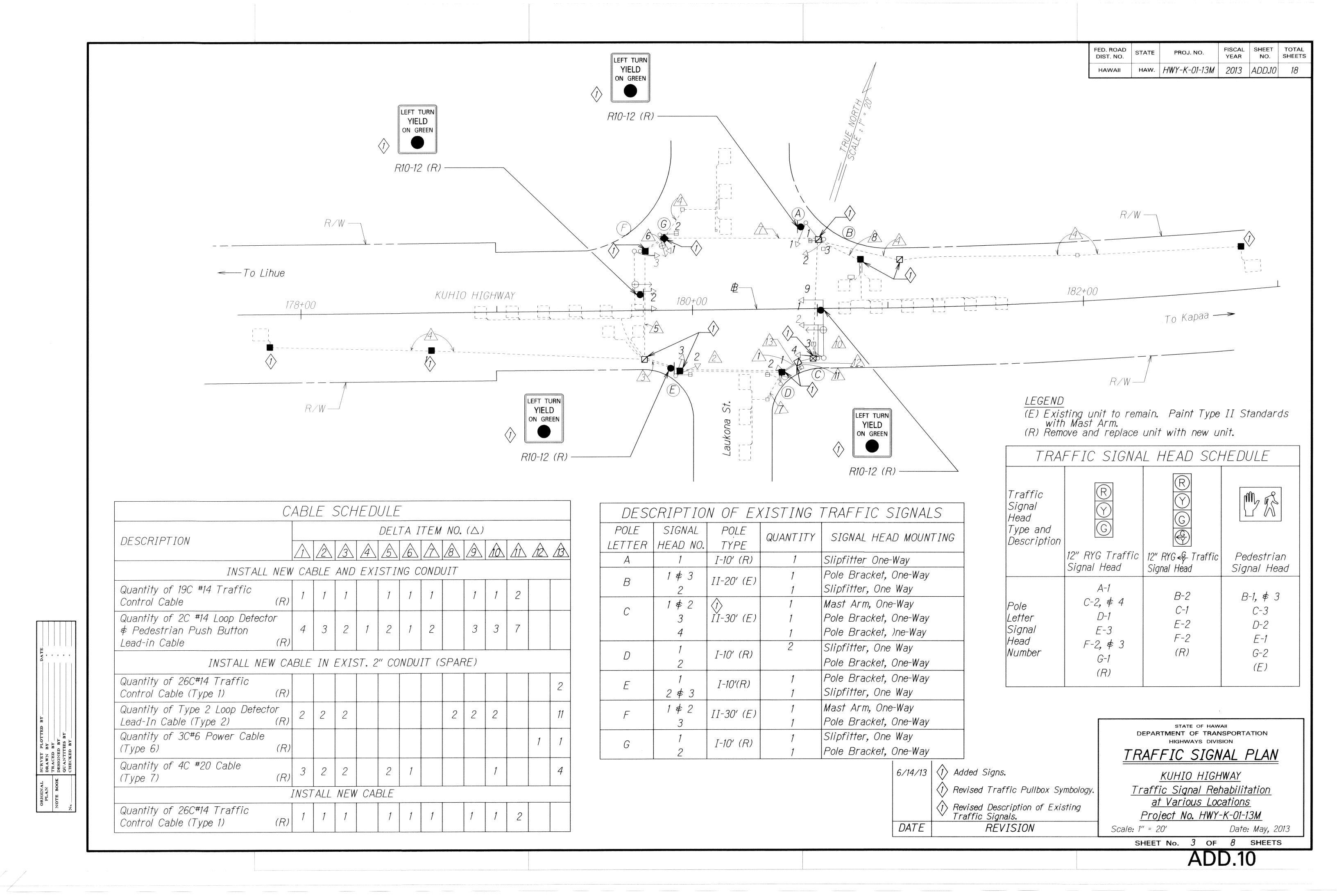
at Various Locations

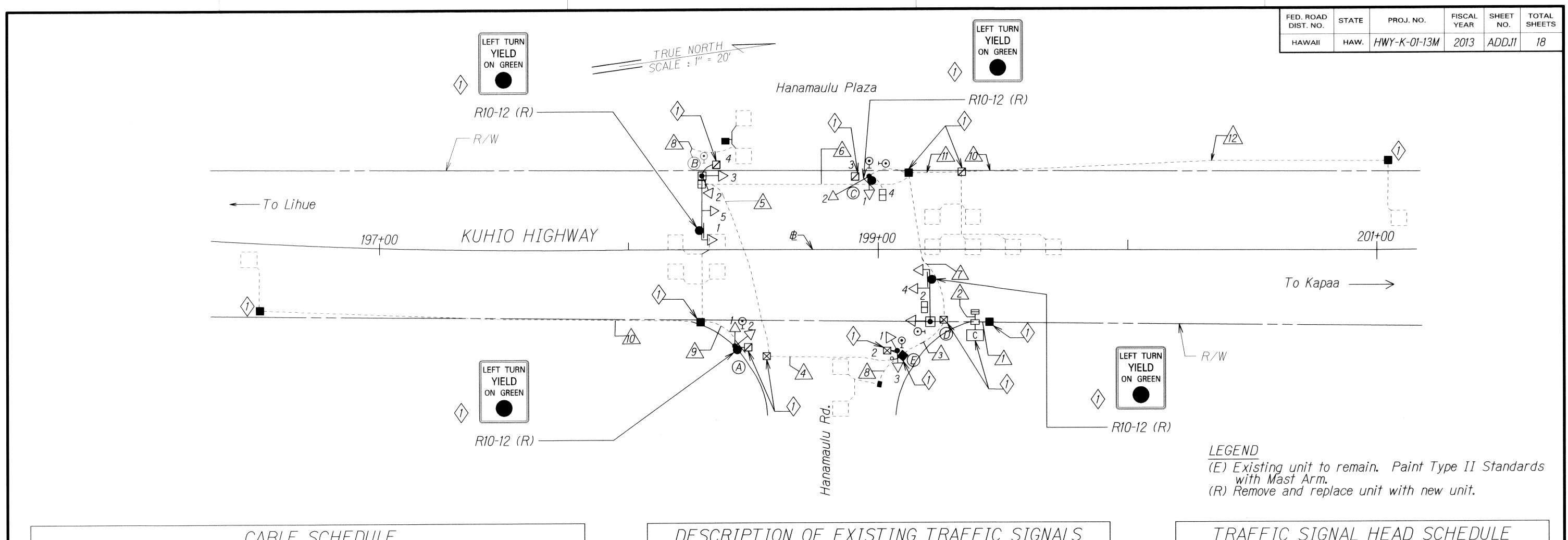
 Project No. HWY-K-01-13M

 Scale: 1" = 20'
 Date: May, 2013

SHEET No. 2 OF 8 SHEETS







	$C_{i}$	ABL	E	SCH	IED	ULE				ROBERT CONTROL			
DECODIDEION	DELTA ITEM NO. (△)												
DESCRIPTION			2	3	4	<u>/5</u> \	6	$\triangle$	8	9	10		12
	Novelbooket I Core reliant to the Core of		annesses statement and the second second					ACCOUNTS OF THE STREET				***************************************	
Quantity of 2" Conduit	(E)	1	6	3	3	2	3	4	1	1	1	1	1
Quantity of Spare 2" Conduit	(E)		2	2	2	1	1	2		1	1	1	1
Quantity of 19C #14 Traffic Control Cable	(R)		2	1	1	1	1	1					
Quantity of 2C #14 Loop Dected Pedestrian Push Button Lea Cable			10	4	3		2	6	1	2	1	3	1
Quanitity of 4C #20 (Type 7) Cable	(R)	1											
Quantity 26C #14 Traffic Contr Cable, Type 1	rol (R)	2	2	1	1	1	1	1	1				
Quantity of 2" Conduit	(E)	1	1			and the second s	The second secon		1				

	DESCRIPTION OF EXISTING TRAFFIC SIGNALS										
Annearon and a second a second and a second	POLE	SIGNAL	POLE	QUANTITY	SIGNAL HEAD MOUNTING						
	LETTER	HEAD NO.	TYPE	9,07111111	JIONNE TIENE MOONTING						
	Λ	1 <b>\$</b> 3	I-10' (R)	1	Pole Bracket, One Way						
	A	2	1 10 (11)	1	Slipfitter, One-Way						
	B	1 \$ 2		1	Mast Arm, One-Way						
		3 <b>\$</b> 4	II-20' (E)	1	Pole Bracket, Two-Way						
		5		1	Pole Bracket, One-Way						
	С	1	I-10' (R)	1	Slipfitter, One-Way						
		1 \$ 2		1	Mast Arm, One-Way						
	D	3	II-30' (E)	1	Pole Bracket, One-Way						
		4		1	Pole Bracket, One-Way						

TRAFFIC SIGNAL HEAD SCHEDULE											
Traffic Signal Head Type and Description	R > 6										
	12" RYG Traffic Signal Head	12″ RYG <del>&lt;Ç</del> Traffic Signal Head	Pedestrian Signal Head								
Pole Letter Signal Head Number	A-1 B-2, 3, \$ 5 C-1 D-1, \$ 4 E-1, \$ 3 (R)	A-2 B-1 C-2 D-3 (R)	A-3 B-4 C-3, \$ 4 D-2 E-2 (E)								

6/14/13 | \$\frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2

Added Signs.

Revised Traffic Pullbox Symbology.

Added Traffic Item.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

## TRAFFIC SIGNAL PLAN

KUHIO HIGHWAY

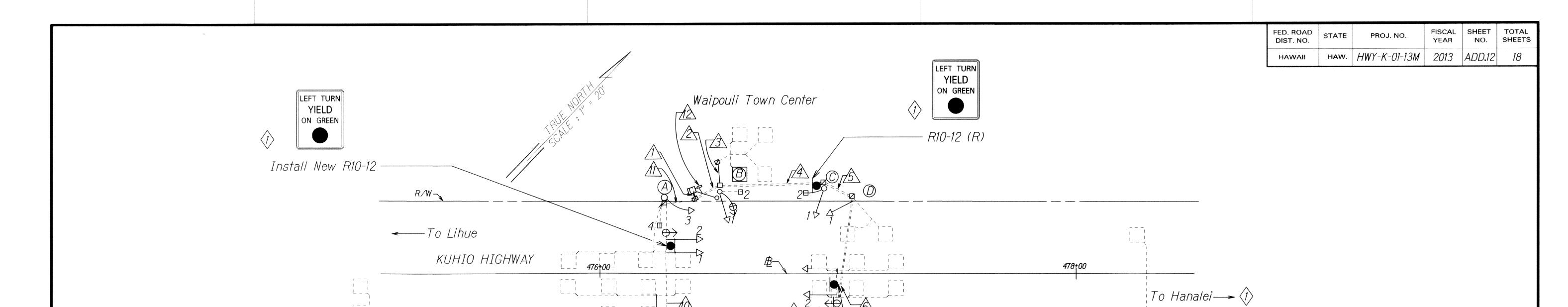
Traffic Signal Rehabilitation
at Various Locations

 Project No. HWY-K-01-13M

 Scale: 1" = 20'
 Date: May, 2013

SHEET No. 4 OF 8 SHEETS





LEFT TURN
YIELD
ON GREEN

R10-12 (R)

C	ABL	E	SCH	IED	ULE									
DESCRIPTION														
DESCRIPTION		2	3	4	<u>\$</u>	6	$\triangle$	8	9	10	<u> </u>	12	B	14
EXISTING CONDUIT AND CABLE														
Quantity of 2" Conduit (E)	5	3	1	2	1	1	2	2	3	4	4		1	1
Quantity of Spare 2" Conduit (E)														
Quantity of 26C #14 Traffic Control Cable (R)	2	1		1	1	1	1	1	1	1	1			
Quantity of 2C #14 Loop Dectector	12	2	1	1	1		3	4	5	9	10			
Quanitity of 6-Pairs #19 Conductor, Interconnect Cable (R)	1	1		1	1	1							1	1
Quantity of 3C #16 Power Cable (R.	)					a the st						1		
Quantity of Type 7 Cable (R)	3	2		1	1	1					1			

	DESC	CRIPTIO	N OF EX	DESCRIPTION OF EXISTING TRAFFIC SIGNALS											
	POLE LETTER	SIGNAL HEAD NO.	POLE TYPE	SIGNAL HEAD MOUNTING											
$\Diamond$	А	1 <b>\$</b> 2 3	II-25' (E)	Mast Arm, One-Way Pole Bracket, One Way											
$\langle i \rangle$	В	1 <b>\$</b> 2	I-10' (R)	Slipfitter, One-Way Pole Bracket, One Way											
$\langle i \rangle$	С	1 \$ 2	I-10' (R)	Slipfitter, One-Way											
$\langle j \rangle$	D	1	I-10' (R)	Slipfitter, One-Way											
$\langle \hat{j} \rangle$	Ε	1 \notin 2 3	II-35' (E)	Mast Arm, One-Way Pole Bracket, One-Way											
$\langle \hat{j} \rangle$	F	1 2	I-10' (R)	Slipfitter, One-Way Pole Bracket, One Way											
$\Diamond$	G	1 2	I-10' (R)	Slipfitter, One-Way Pole Bracket, One Way											
$\Diamond$	Н	1 2	I-10' (R)	Slipfitter, One-Way Pole Bracket, One Way											

YIELD ON GREEN

-Install New R10-12

LEGEND

(E) Existing unit to remain. Paint Type II Standards with Mast Arm. (R) Remove and replace unit with new unit.

TRAFFIC SIGNAL HEAD SCHEDULE											
Traffic Signal Head Type and Description	R > G										
	12" RYG Traffic Signal Head	12″ RYG <del>⟨Ç</del> Traffic Signal Head	Pedestrian Signal Head								
Pole Letter Signal Head Number	<ul> <li>A-2 ≠ 3</li> <li>B-1</li> <li>C-1</li> <li>E-2 ≠ 3</li> <li>F-1</li> <li>H-1</li> <li>(R)</li> </ul>	A-1 D-1 E-1 G-1 (R)	A-4 B-2 C-2 F-2 G-2 H-2 (E)								

DATE				
PA	-	-	-	-
	-			
BY_				
SURVEY PLOTTED BY		***************************************		2
LOT	5	<b>&gt;</b>	BY	QUANTITIES BY
C.	A		Q	ILII
VEY	MN	CEL	DESIGNED BY	LZ
SUR	DRAWN BY	TRACED BY	DES	QUA
			OK	
INAL	Z		BOOK	

6/14/13 \( \bar{1} \) Changed "To Hanalei" to "To Kapaa". \( \bar{1} \) Revised Description of Existing Traffic Signals A through D. \( \Dar{1} \) Added Description of Existing Traffic Signals E through H. \( \bar{1} \) Revised Traffic Signal Head Schedule. \( \bar{1} \) Added Signs.

DATE

REVISION

TRAFFIC SIGNAL PLAN

KUHIO HIGHWAY

Traffic Signal Rehabilitation

<u>at Various Locations</u>

<u>Project No. HWY-K-01-13M</u>

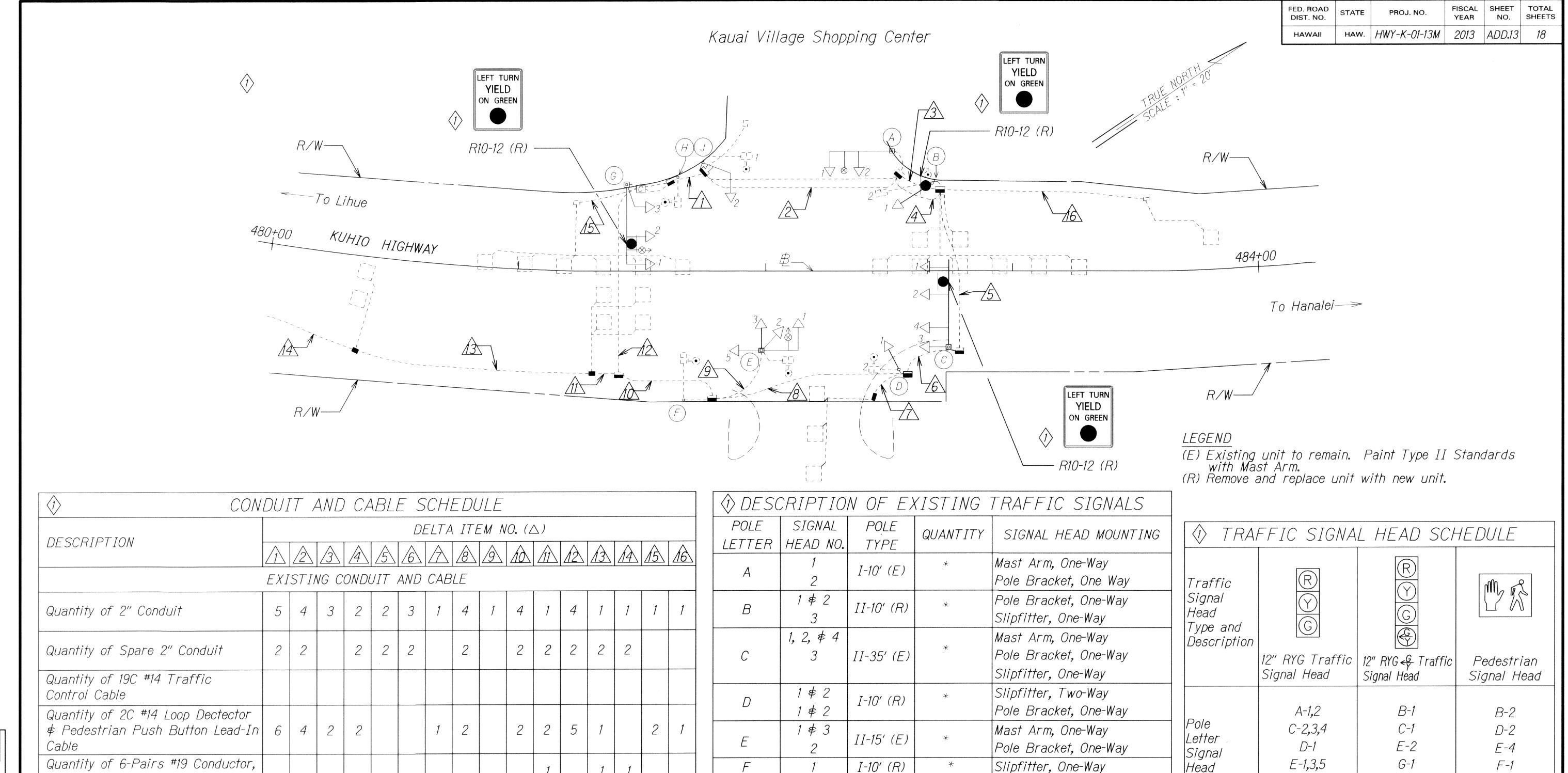
Scale: 1" = 20'

Date: May, 2013

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

SHEET No. 5 OF 8 SHEETS



SURVET PLOTTE
DRAWN BY \_\_\_\_
TRACED BY \_\_\_
QUANTITIES BY \_\_\_
CHECKED BY

Interconnect Cable

Control Cable, Type 1

Quantity of Type 7 Cable

Quantity of Type 5 Cable

Quantity of #8 Ground Cable

Quantity of 3C #16 Power Cable

2 2 2 2 2

3 | 1

2 2

INSTALL NEW CABLE IN EXISTING 2" CONDUIT(SPARE)

2 2 2

2

2

Quantity of 26C #14 Traffic

II-35' (E)

II-10' (R)

1 \ 2

1 \$ 2

6/14/13 Revised Traffic Signal Plan of Intersection.

Replaced Conduit And Cable Schedule Table. Replaced Description of Existing Traffic Signals Table.

Replaced Traffic Signal Head Schedule Table. (1) Added Signs.

REVISION DATE

Mast Arm, One-Way

Slipfitter, Two-Way

Pole Bracket, One-Way

Pole Bracket, One-Way

E-1,3,5 G-1 Head Number G-2,3 J-2

> STATE OF HAWAII
> DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

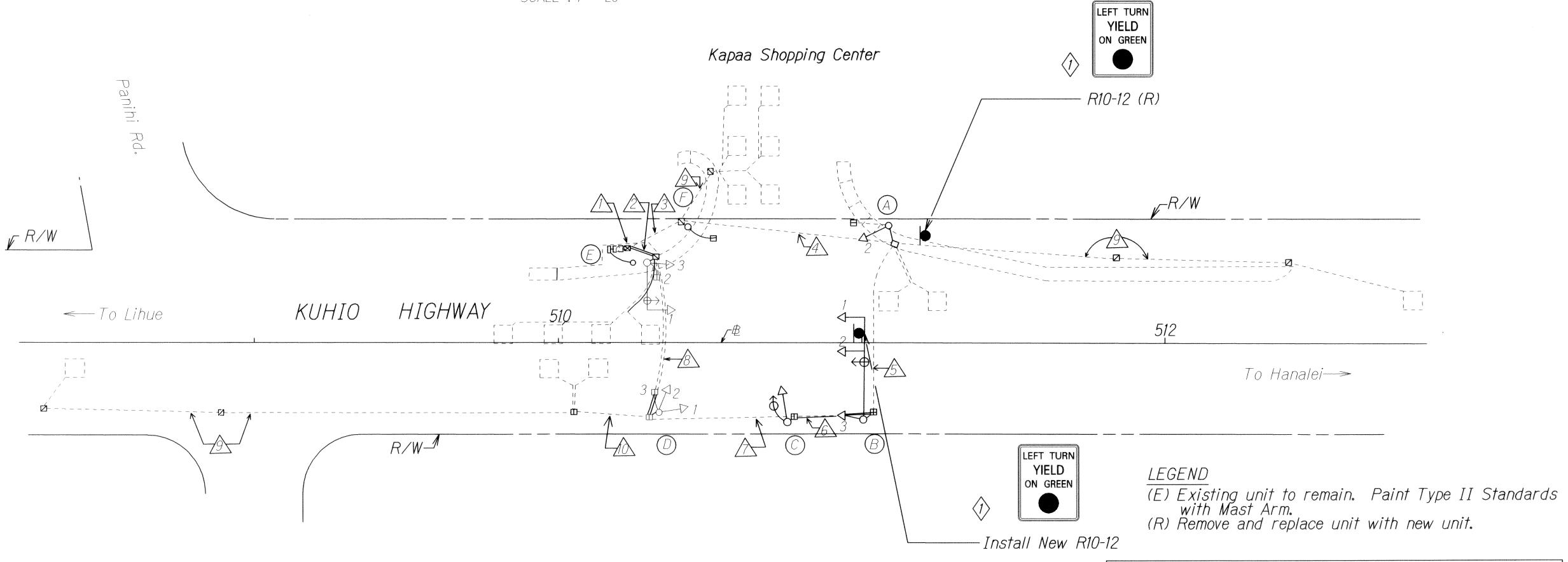
## TRAFFIC SIGNAL PLAN

KUHIO HIGHWAY Traffic Signal Rehabilitation at Various Locations

Project No. HWY-K-01-13M Scale: 1" = 20' Date: May, 2013

SHEET No. 6 OF 8 SHEETS





TRUE NORTH

SCALE: 1" = 20'

DESC	CRIPTIO	N OF EX	(ISTING	TRAFFIC SIGNALS
POLE LETTER	SIGNAL HEAD NO.	POLE TYPE	QUANTITY	SIGNAL HEAD MOUNTING
A	2 1	I-10' (R)	1	Four Section Head Top of Pole Bracket Pedestrian Signal w/Side of Pole Bracket
	·		,	Pedestrian Push Button
В	2	<i>(</i> 1 <i>)11-32′</i>	1	Three Section Head w/Astro Bracket
h)	1	(F)	1	Opticom w/Astro Bracket
		\	1	Street Name Sign w/Astro Bracket
	3		1	Three Section Head w/Side of Pole Bracket
C	1	I-10'	1	Three Section Head Top of Pole Bracket
	/	(R)	/	Pedestrian Signal w/Side of Pole Bracket
D	1 4 0	I-10'	1	Three Section Head Top of Pole Bracket
	1 \& 2	(R)	1	Pedestrian Signal w/Side of Pole Bracket
	3	(/\/	1	Pedestrian Push Button
	1	<u> </u>	1	Three Section head w/Astro Bracket
L		(1) II-15'	1	Opticom Receiver w/Astro Bracket
	3	( <i>E</i> )	1	Three Section Head w/Side of Pole Bracket
	2		1	Pedestrian Signal w/Side of Pole Bracket
			1	Pedestrian Push Button
	1	I-10'	1	Pedestrian Signal w/Top of Pole Bracket
F		(R)	1	Pedestrian Push Button

CA	BLE	SC	CHE	DU	LE		191(48)					
DESCRIPTION		DELTA ITEM NO. (△)										
	ekilkivi va hilikki kale kila kilkilki kilkila kale kale kilkilki kilkilki kilkilki kilkilki kilkilki kilkilki		2	3	4	5	6	$\triangle$	8	9	10	
			depot de actività de la constanta de la consta	The state of the s		anne declarate de la companya de la					at a state of the	
Quantity of 2" Conduit	(E) 	4	4	2	2	1	1	1	2	1	1	
Quantity of Spare 2" Conduit	(E)					1	1	1				
Quantity of 19C #14 Traffic Control Cable	(R)	2	2	1	1	1	1	1	1	1		
Quantity of 2C #14 Loop Dected \$ Pedestrian Push Button Lea Cable		8	8	4	3				3		2	
<i>Quantity of 4C #20 (Type 7)</i> <i>Cable</i>	(R)	3	3				1	2	2			
Quantity of 26C #14 Traffic Control Cabel, Type 1	(R)	2	2	1	1	1	1	1	1	1		
Quantity of 2" Conduit	(E)	1	1						1			

TRA	TRAFFIC SIGNAL HEAD SCHEDULE										
Traffic Signal Head Type and Description											
	12" RYG Traffic Signal Head	12″ RYG <del>&lt;Ç</del> Traffic Signal Head	Pedestrian Signal Head								
Pole Letter Signal Head Number	B-2 \$ 3 C-1 D-1 \$ 2 E-1 \$ 3 (R)	A-2 B-1 (R)	A-1 D-3 E-2 F-1 (E)								

6/14/13 (1) Added Signs.

(1) Revised Description of Existing Traffic Signals.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

## TRAFFIC SIGNAL PLAN

KUHIO HIGHWAY

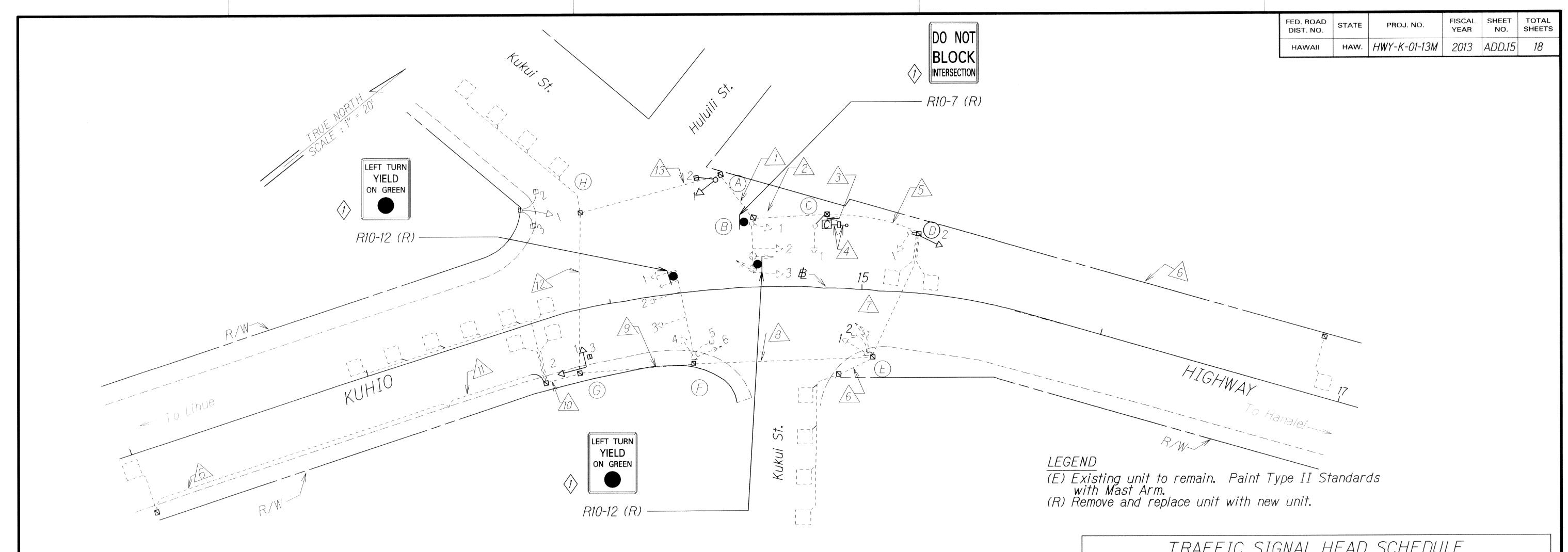
Traffic Signal Rehabilitation

at Various Locations

Project No. HWY-K-01-13M

 Scale: 1" = 20'
 Date: May, 2013

 SHEET No.
 7 OF
 8 SHEETS



0015	CIONIAI	0015				
POLE	SIGNAL	POLE	QUANTITY	SIGNAL HEAD MOUNTING		
LETTER	HEAD NO.	TYPE				
A	1	I-10' (R)	1	Four Section Head Top of Pole Bracket		
A	1	1 10 (11)	1	Pedestrian Signal w/Side of Pole Bracket		
5	2	II 00/ //\(\)	1	Three Section Head w/Astro Bracket		
B	1	II-20' (E)	1	Opticom w/Astro Bracket		
	1		1	Street Name Sign w/Astro Bracket		
	1		1	Three Section Head w/Side of Pole Bracket		
0	1	T 10/ (D)	1	Three Section Head Top of Pole Bracket		
	2	I-10' (R)	1	Pedestrian Signal w/Side of Pole Bracket		
D	1 \$ 2	I-10' (R)	2	Three Section Head Top of Pole Bracket		
p	1	T 10/ (D)	1	Three Section Head Top of Pole Bracket		
$\mid  \mathcal{E} \mid$	2	I-10' (R)	1	Pedestrian Signal w/Side of Pole Bracket		
<u></u>	1	II-35' (E)	1	Four Section Head w. Astro Bracket		
<i></i>	2 \\$ 3	11-35 (L)	2	Three Section head w/Astro Bracket		
	1		1	Opticom Receiver w/Astro Bracket		
	1		1	Stree Name Sign w/ Astro Bracket		
	4		1	Three Section Head w/Side of Pole Bracket		
	5		1	Pedestrian Signal w/Side of Pole Bracket		
	1		1	Opticom Receiver w/Side Pole Bracket		
	1 \$ 2	T 10/ /D)	1	Two Three Section Head Top of Pole Bracket		
G	3	I-10' (R)	1	Pedestrian Signal w/Side of Pole Bracket		
1 1	1	T_10/ /D)	1	Three Section Head Top of Pole Bracket		
H	2 \$ 3	I-10' (R)	1	Pedestrian Signal w/Side of Pole Bracket		

DESCRIPTION OF EXISTING TRAFFIC SIGNALS

							The second secon		**************************************			ALCHEOLOGIC SHIMMOUNDINGS			/ / /
CABLE SCHEDULE															
DESCRIPTION		<b>—</b>		DELT	A 17	EM	T		T	***************************************	T			Traffic	
DESCRIPTION			3	4	5	6		8	9	10		12	13	Signal Head	Parameter sections of the section of
EXISTING	CONL	DUIT	AND	CAE	BLE				T		T	was a second		Type and Description	C deligional de l'acceptante d
Quantity of 2" Conduit (E	5	6	8	1	4	1	4	3	2	2	2	4	5	Boooripirori	12" R Signa
Quantity of Spare 2" Conduit (E				A CONTRACT OF THE PROPERTY OF											E
Quantity of 26C #14 Traffic Control Cable (F	7) 1	1	2		1		1	1	1			1	1	Pole Letter Signal	
Quantity of 2C #14 Loop Dectector Pedestrian Push Button Lead-1 Cable (Fig. 1)	$n \mid 6$	6	10		4	1	2	1		3	1	4	6	Head Number	F-2
Quanitity of 6-Pairs #19 Conducto Interconnect Cable (F		1	1			And the second control of the second control			Particular and poster making and the control of the	1	1	1	1		
Quanitity of 3C #16 Power Cable (F	?)			1											
Quantity of 7 Cable (F	?)	2	3		1		1		Sea La Caracteria de Caracteri	1					
												6	6/14/1.	3 \langle \hatarrow \text{Added Signature}	igns.

TRAFFIC SIGNAL HEAD SCHEDULE									
raffic ignal 'ead ype and escription	R (>) (G)	RY							
	12" RYG Traffic Signal Head	12″ RY <del>→</del> Traffic Signal Head	12″ RYG <del>⟨Ç</del> Traffic Signal Head	Pedestrian Signal Head					
ole etter ignal ead umber	B-1, \$ 2 D-2 E-1 F-2, 3, \$ 4 G-1, \$ 2 H-1 (R)	C-1 D-1 (R)	A-1 F-1 (R)	A-2 C-2 E-2, 3 F-5 G-3 H-2, 3 (E)					

REVISION

DATE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

## TRAFFIC SIGNAL PLAN

KUHIO HIGHWAY

Traffic Signal Rehabilitation

at Various Locations

Project No. HWY-K-01-13M

Scale: 1" = 20' Date: May, 2013

SHEET No. 8 OF 8 SHEETS