

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-050-110361	FY13/14	49	49

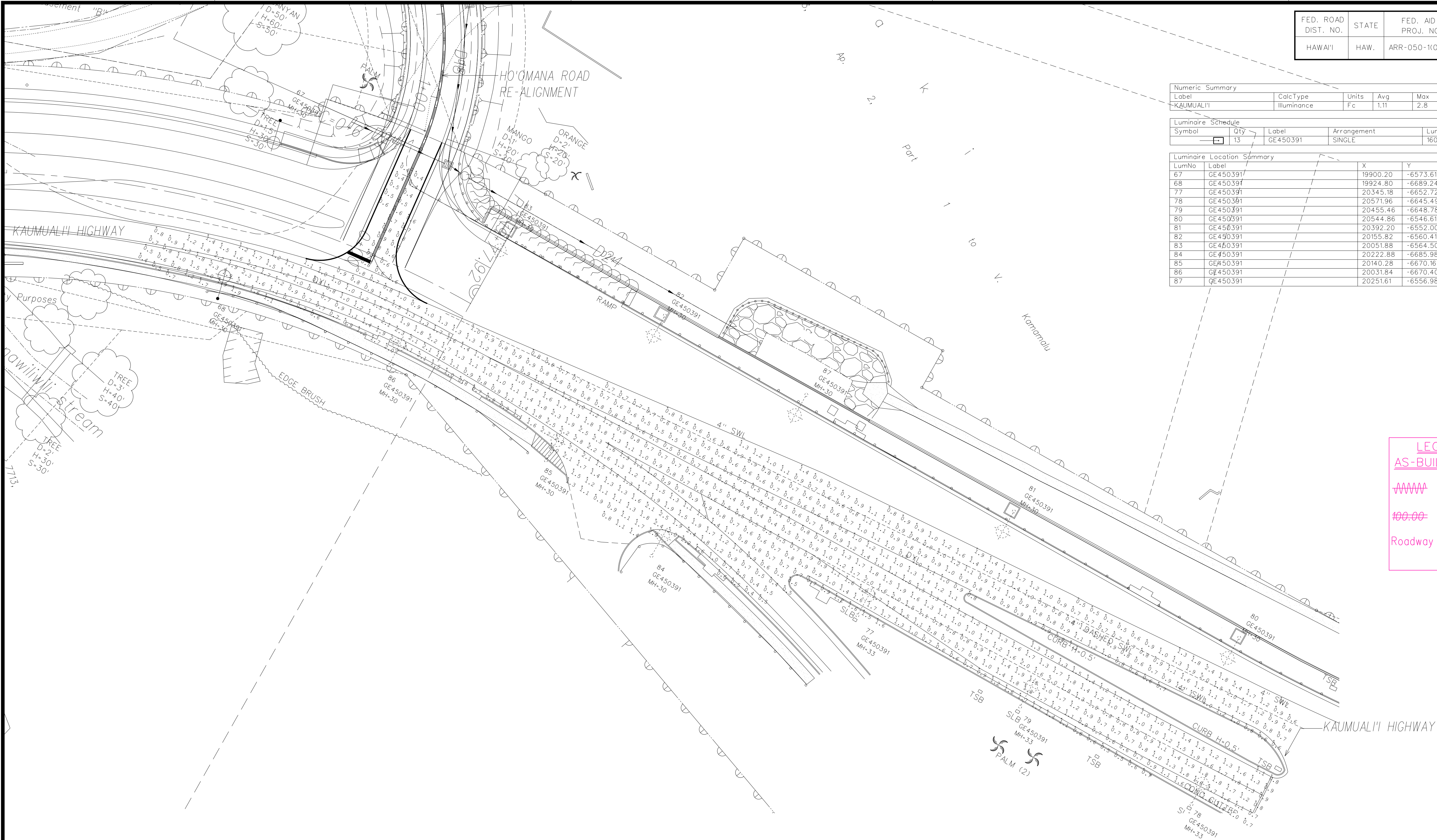
Numeric Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
KAUMUALI	Illuminance	Fc	1.11	2.8	0.4	2.78

Luminaire Schedule					
Symbol	Qty	Label	Arrangement	Lumens	LLF
	13	GE450391	SINGLE	16000	0.760

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
67	GE450391	19900.20	-6573.61	30	285.039	0
68	GE450391	19924.80	-6689.24	30	107.382	0
77	GE450391	20345.18	-6652.72	33	91.508	0
78	GE450391	20571.96	-6645.49	33	94.679	0
79	GE450391	20455.46	-6648.78	33	92.902	0
80	GE450391	20544.86	-6546.61	30	270.81	0
81	GE450391	20392.20	-6552.00	30	271.655	0
82	GE450391	20155.82	-6560.41	30	271.601	0
83	GE450391	20051.88	-6564.50	30	272.094	0
84	GE450391	20222.88	-6685.98	30	91.142	0
85	GE450391	20140.28	-6670.16	30	91.423	0
86	GE450391	20031.84	-6670.40	30	94.82	0
87	GE450391	20251.61	-6556.98	30	271.87	0

LEGEND FOR
AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting

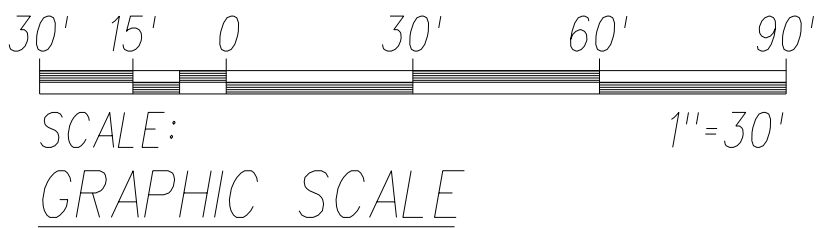


SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
NOTED BY	
No.	

LAST SAVE: 10/14/2014 10:00:00 AM
PROJECT: 20130304-004-212030A-Phase 1 Lighting Calc
REFS: XRLMB CIVIL BASE 12-11-12 XRLMB-TOPO RR-KAUMUALII HWY XRLMB STRUCTURE BASE XRLMB-212030A-BACKGND ALL XRLMB-212030A-ELEC ALL



LIGHTING CALCULATION
Scale: 1"=30'



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION AND
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION.

SIGNATURE
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIGHTING CALCULATION

PHASE 1 - KAUMUALII HIGHWAY
LIU'UE MILL BRIDGE TO RICE STREET
PHASE 1 - HO'OMANA ROAD

Scale: AS NOTED
Date: December 4, 2012
SHEET No. E-4 OF 4 SHEETS

"AS-BUILT"