

Culvert Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

Friday, Nov 2 2018

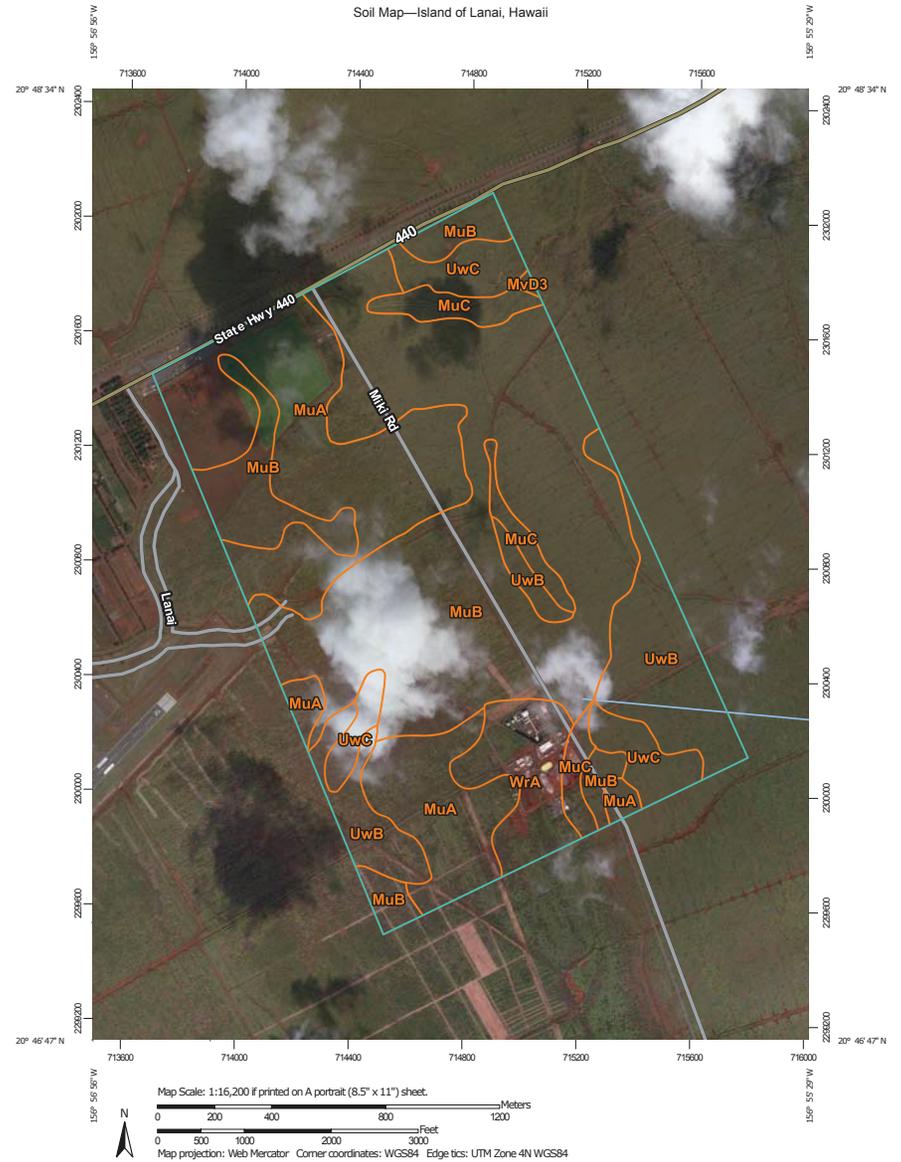
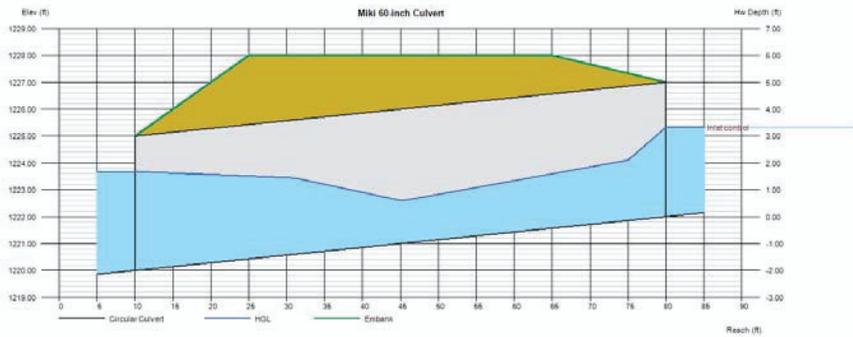
Miki 60-inch Culvert

Invert Elev Dn (ft) = 1220.00
 Pipe Length (ft) = 70.00
 Slope (%) = 2.86
 Invert Elev Up (ft) = 1222.00
 Rise (in) = 60.0
 Shape = Circular
 Span (in) = 60.0
 No. Barrels = 1
 n-Value = 0.012
 Culvert Type = Circular Concrete
 Culvert Entrance = Square edge w/headwall (C)
 Coeff. K,M,c,Y,k = 0.0098, 2, 0.0398, 0.67, 0.5

Calculations
 Qmin (cfs) = 69.91
 Qmax (cfs) = 69.91
 Tailwater Elev (ft) = (dc+D)/2

Highlighted
 Qtotal (cfs) = 69.91
 Qpipe (cfs) = 69.91
 Qovertop (cfs) = 0.00
 Veloc Dn (ft/s) = 4.51
 Veloc Up (ft/s) = 7.68
 HGL Dn (ft) = 1223.68
 HGL Up (ft) = 1224.36
 Hw Elev (ft) = 1225.33
 Hw/D (ft) = 0.67
 Flow Regime = Inlet Control

Embankment
 Top Elevation (ft) = 1228.00
 Top Width (ft) = 40.00
 Crest Width (ft) = 80.00



USDA Natural Resources Conservation Service

Web Soil Survey National Cooperative Soil Survey

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MuA	Molokai silty clay loam, 0 to 3 percent slopes, MLRA 158	193.2	26.3%
MuB	Molokai silty clay loam, 3 to 7 percent slopes, MLRA 158	346.1	47.1%
MuC	Molokai silty clay loam, 7 to 15 percent slopes, MLRA 158	29.0	3.9%
MvD3	Lithic Eutrotorrox, 15 to 25 percent slopes, severely eroded, MLRA 158	1.0	0.1%
UwB	Uwala silty clay loam, 2 to 7 percent slopes	84.6	11.5%
UwC	Uwala silty clay loam, 7 to 15 percent slopes	42.3	5.8%
WrA	Waikapu silty clay loam, 0 to 3 percent slopes, MLRA 158	38.8	5.3%
Totals for Area of Interest		735.0	100.0%

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Island of Lanai, Hawaii
 Survey Area Date: Version 13, Sep 11, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Feb 12, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

**PROPOSED CONDITION CN
SOIL GROUP C**

Chapter 2 Estimating Runoff		Technical Release 55 Urban Hydrology for Small Watersheds			
Table 2-2a Runoff curve numbers for urban areas ^{1/}					
Cover description	Average percent impervious area ^{2/}	Curve numbers for hydrologic soil group			
		A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.) ^{3/} :					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)					
		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right-of-way)					
		98	98	98	98
Paved; open ditches (including right-of-way)					
		83	89	92	93
Gravel (including right-of-way)					
		76	85	89	91
Dirt (including right-of-way)					
		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) ^{4/}					
		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)					
		96	96	96	96
Urban districts:					
Commercial and business					
	85	89	92	94	95
Industrial					
	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)					
	65	77	85	90	92
1/4 acre					
	38	61	75	83	87
1/3 acre					
	30	57	72	81	86
1/2 acre					
	25	54	70	80	85
1 acre					
	20	51	68	79	84
2 acres					
	12	46	65	77	82
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation) ^{5/}					
		77	86	91	94
Idle lands (CN's are determined using cover types similar to those in table 2-2c).					

^{1/} Average runoff condition, and $I_a = 0.2S$.
^{2/} The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 2-3 or 2-4.
^{3/} CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.
^{4/} Composite CN's for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.
^{5/} Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

**EXISTING CONDITION CN
SOIL GROUP C**

Chapter 2 Estimating Runoff		Technical Release 55 Urban Hydrology for Small Watersheds			
Table 2-2c Runoff curve numbers for other agricultural lands ^{1/}					
Cover description	Hydrologic condition	Curve numbers for hydrologic soil group			
		A	B	C	D
Pasture, grassland, or range—continuous forage for grazing. ^{2/}					
	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow—continuous grass, protected from grazing and generally mowed for hay.					
	—	30	58	71	78
Brush—brush-weed-grass mixture with brush the major element. ^{3/}					
	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30 ^{4/}	48	65	73
Woods—grass combination (orchard or tree farm). ^{5/}					
	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods. ^{6/}					
	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30 ^{4/}	55	70	77
Farmsteads—buildings, lanes, driveways, and surrounding lots.					
	—	59	74	82	86

^{1/} Average runoff condition, and $I_a = 0.2S$.
^{2/} Poor: <50% ground cover or heavily grazed with no mulch.
 Fair: 50 to 75% ground cover and not heavily grazed.
 Good: > 75% ground cover and lightly or only occasionally grazed.
^{3/} Poor: <50% ground cover.
 Fair: 50 to 75% ground cover.
 Good: >75% ground cover.
^{4/} Actual curve number is less than 30; use CN = 30 for runoff computations.
^{5/} CN's shown were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CN's for woods and pasture.
^{6/} Poor: Forest litter, small trees, and brush are destroyed by heavy grazing or regular burning.
 Fair: Woods are grazed but not burned, and some forest litter covers the soil.
 Good: Woods are protected from grazing, and litter and brush adequately cover the soil.

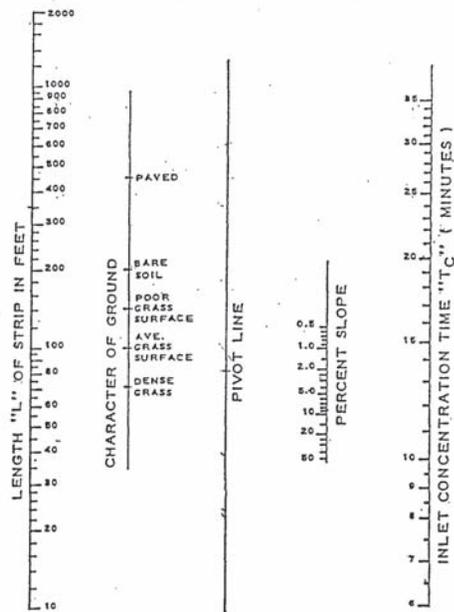


Plate 1
Overland
Flow
Chart

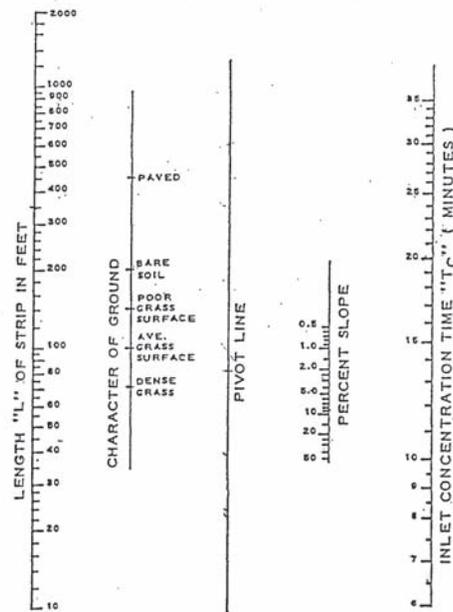
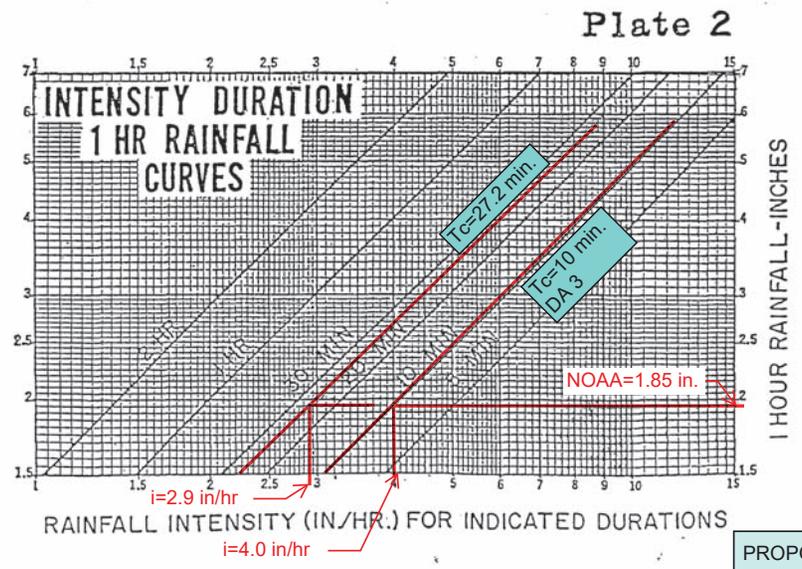
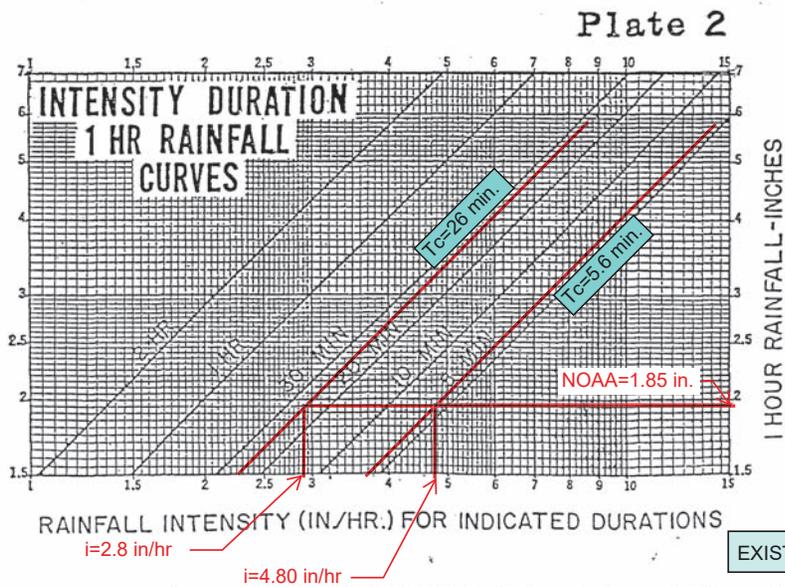


Plate 1
Overland
Flow
Chart



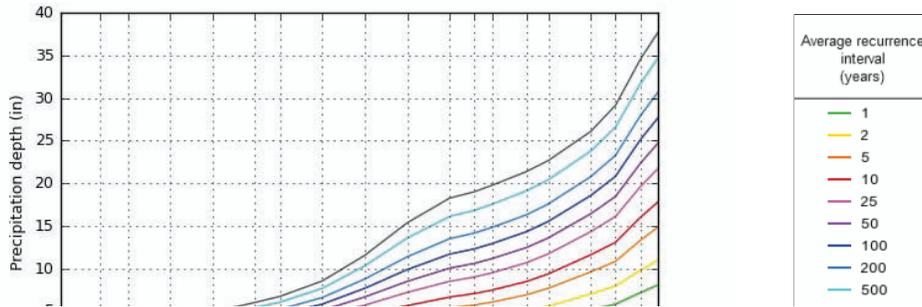
	(2.48-3.49)	(3.43-4.85)	(4.79-6.83)	(5.89-8.47)	(7.43-10.8)	(8.67-12.8)	(9.94-15.0)	(11.3-17.4)	(13.1-20.9)	(14.5-23.8)
4-day	3.12 (2.64-3.71)	4.32 (3.65-5.15)	6.06 (5.09-7.24)	7.47 (6.24-8.96)	9.49 (7.86-11.5)	11.2 (9.14-13.5)	12.9 (10.5-15.8)	14.8 (11.8-18.2)	17.5 (13.7-21.8)	19.8 (15.1-24.8)
7-day	3.60 (3.03-4.28)	4.96 (4.17-5.92)	6.91 (5.78-8.24)	8.47 (7.04-10.1)	10.7 (8.78-12.8)	12.4 (10.1-15.1)	14.3 (11.5-17.4)	16.3 (12.9-20.0)	19.1 (14.8-23.6)	21.4 (16.2-26.7)
10-day	4.03 (3.43-4.74)	5.55 (4.71-6.54)	7.67 (6.48-9.06)	9.36 (7.87-11.1)	11.7 (9.74-13.9)	13.6 (11.2-16.2)	15.5 (12.6-18.7)	17.6 (14.1-21.3)	20.4 (16.0-25.0)	22.7 (17.4-28.0)
20-day	5.12 (4.36-6.04)	7.01 (5.94-8.27)	9.59 (8.09-11.3)	11.6 (9.72-13.7)	14.3 (11.9-17.1)	16.4 (13.5-19.7)	18.5 (15.1-22.4)	20.8 (16.6-25.2)	23.8 (18.6-29.2)	26.1 (20.0-32.3)
30-day	5.82 (4.94-6.85)	7.94 (6.73-9.37)	10.8 (9.14-12.8)	13.1 (11.0-15.5)	16.1 (13.4-19.2)	18.4 (15.2-22.1)	20.8 (16.9-25.1)	23.3 (18.6-28.3)	26.6 (20.8-32.6)	29.1 (22.4-36.1)
45-day	7.16 (6.08-8.42)	9.77 (8.28-11.5)	13.3 (11.2-15.7)	16.0 (13.4-19.0)	19.6 (16.3-23.4)	22.3 (18.3-26.8)	25.1 (20.4-30.3)	27.9 (22.3-33.9)	31.7 (24.8-38.9)	34.5 (26.5-42.8)
60-day	8.07 (6.85-9.50)	11.0 (9.30-13.0)	14.9 (12.5-17.6)	17.8 (14.9-21.1)	21.7 (18.0-25.9)	24.7 (20.3-29.6)	27.7 (22.5-33.4)	30.7 (24.6-37.3)	34.7 (27.1-42.6)	37.7 (28.9-46.7)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 20.7936°, Longitude: -156.9374°



https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_printpage.html?lat=20.7936&lon=-156.9374&data=depth&units=english&series=pds



NOAA Atlas 14, Volume 4, Version 3
Location name: Lanai City, Hawaii, USA*
Latitude: 20.7936°, Longitude: -156.9374°
Elevation: 1295.93 ft**
* source: ESRI Maps
** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

S. Perica, D. Martin, B. Lin, T. Parzybok, D. Riley, M. Yekta, L. Hiner, L.-C. Chen, D. Brewer, F. Yan, K. Maitaria, C. Trypaluk, G. M. Bonnin

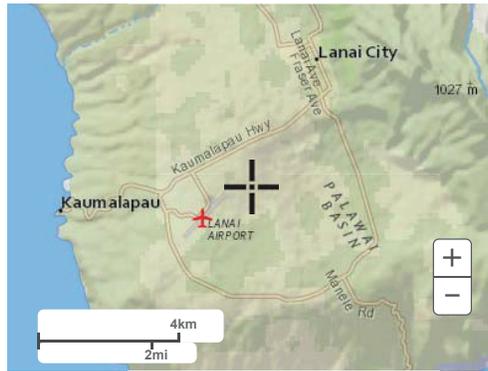
NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aeriels](#)

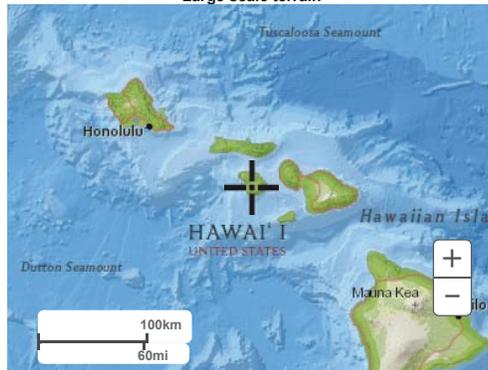
PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.235 (0.208-0.293)	0.320 (0.260-0.388)	0.440 (0.354-0.534)	0.536 (0.430-0.655)	0.679 (0.535-0.838)	0.794 (0.621-0.992)	0.918 (0.708-1.16)	1.05 (0.798-1.35)	1.25 (0.922-1.63)	1.41 (1.02-1.88)
10-min	0.349 (0.308-0.434)	0.474 (0.386-0.575)	0.652 (0.525-0.792)	0.794 (0.638-0.971)	1.01 (0.794-1.24)	1.18 (0.921-1.47)	1.36 (1.05-1.72)	1.56 (1.18-2.00)	1.85 (1.37-2.42)	2.09 (1.51-2.78)
15-min	0.438 (0.387-0.545)	0.595 (0.485-0.722)	0.819 (0.660-0.994)	0.997 (0.801-1.22)	1.26 (0.997-1.56)	1.48 (1.16-1.85)	1.71 (1.32-2.16)	1.96 (1.49-2.51)	2.33 (1.72-3.04)	2.63 (1.90-3.49)
30-min	0.616 (0.544-0.768)	0.838 (0.682-1.02)	1.15 (0.929-1.40)	1.40 (1.13-1.72)	1.78 (1.40-2.20)	2.08 (1.63-2.60)	2.41 (1.85-3.04)	2.76 (2.09-3.54)	3.27 (2.42-4.28)	3.70 (2.67-4.91)
60-min	0.811 (0.716-1.01)	1.10 (0.898-1.34)	1.52 (1.22-1.84)	1.85 (1.48-2.26)	2.34 (1.85-2.89)	2.74 (2.14-3.42)	3.17 (2.44-4.00)	3.63 (2.75-4.65)	4.31 (3.18-5.63)	4.87 (3.51-6.47)
2-hr	1.12 (0.952-1.33)	1.48 (1.21-1.80)	2.04 (1.64-2.48)	2.47 (1.98-3.01)	3.08 (2.44-3.80)	3.58 (2.80-4.45)	4.08 (3.15-5.14)	4.63 (3.51-5.91)	5.41 (3.99-7.04)	6.02 (4.35-7.98)
3-hr	1.25 (1.05-1.48)	1.67 (1.36-2.02)	2.29 (1.85-2.78)	2.77 (2.23-3.38)	3.47 (2.75-4.28)	4.02 (3.15-5.01)	4.59 (3.55-5.79)	5.20 (3.94-6.64)	6.04 (4.47-7.89)	6.72 (4.86-8.92)
6-hr	1.58 (1.31-1.88)	2.09 (1.70-2.52)	2.88 (2.32-3.49)	3.50 (2.81-4.27)	4.38 (3.48-5.41)	5.08 (3.99-6.33)	5.82 (4.49-7.34)	6.59 (5.00-8.42)	7.67 (5.66-10.0)	8.53 (6.14-11.3)
12-hr	1.96 (1.62-2.36)	2.66 (2.16-3.22)	3.68 (2.97-4.47)	4.51 (3.62-5.51)	5.69 (4.52-7.03)	6.66 (5.22-8.29)	7.67 (5.92-9.66)	8.76 (6.64-11.2)	10.3 (7.60-13.4)	11.5 (8.30-15.3)
24-hr	2.37 (1.98-2.82)	3.26 (2.72-3.90)	4.57 (3.80-5.47)	5.64 (4.67-6.77)	7.20 (5.90-8.69)	8.48 (6.90-10.3)	9.86 (7.92-12.0)	11.4 (9.00-14.0)	13.6 (10.5-16.8)	15.4 (11.7-19.2)
2-day	2.75 (2.32-3.27)	3.82 (3.22-4.55)	5.36 (4.50-6.41)	6.65 (5.54-7.97)	8.50 (7.01-10.2)	10.0 (8.21-12.2)	11.7 (9.43-14.3)	13.5 (10.7-16.6)	16.1 (12.5-20.0)	18.2 (13.9-22.9)
3-day	2.93	4.07	5.71	7.06	8.99	10.6	12.3	14.2	16.8	19.0

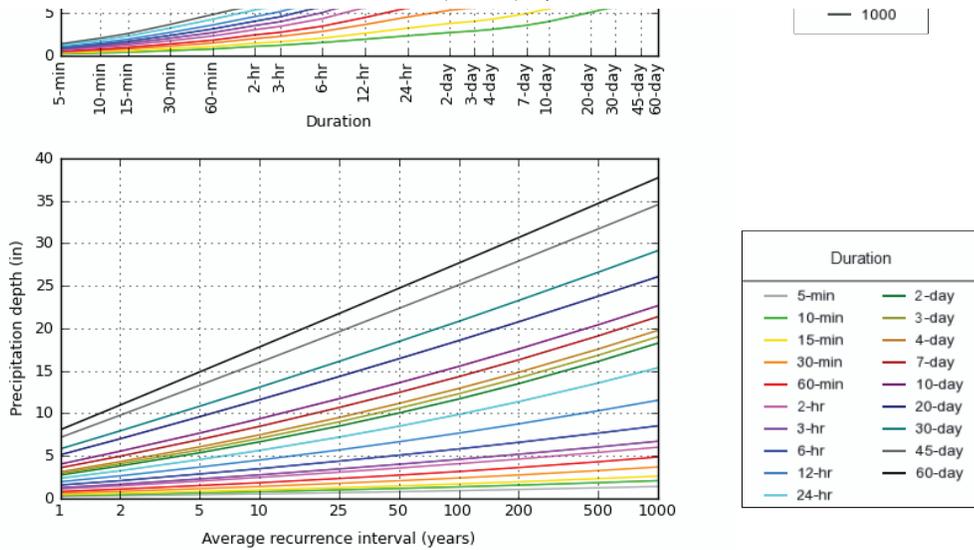
https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_printpage.html?lat=20.7936&lon=-156.9374&data=depth&units=english&series=pds



Large scale terrain



Large scale map

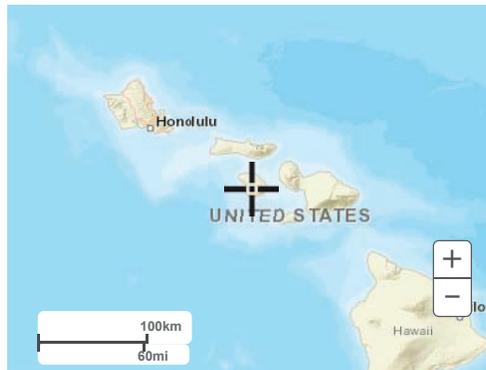


Maps & aerals

Small scale terrain

[US Department of Commerce](#)
[National Oceanic and Atmospheric Administration](#)
[National Weather Service](#)
[National Water Center](#)
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

[Disclaimer](#)



Large scale aerial



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NOAA Atlas 14, Volume 4, Version 3
Location name: Lanai City, Hawaii, USA*
Latitude: 20.7907°, Longitude: -156.9376°
Elevation: 1246.73 ft**
*source: ESRI Maps
**source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

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NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aeriels](#)

PF tabular

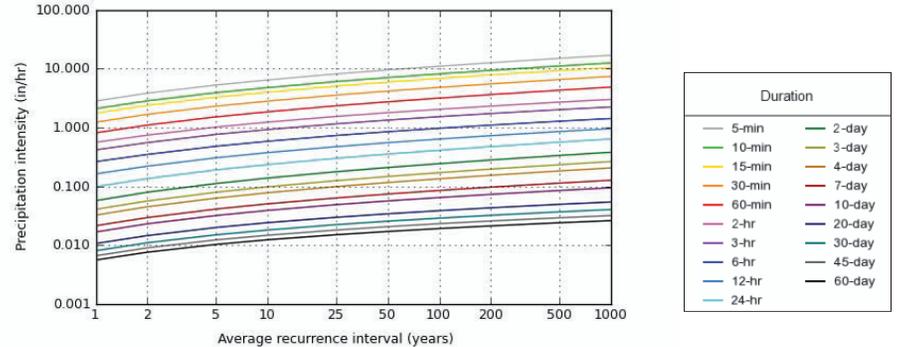
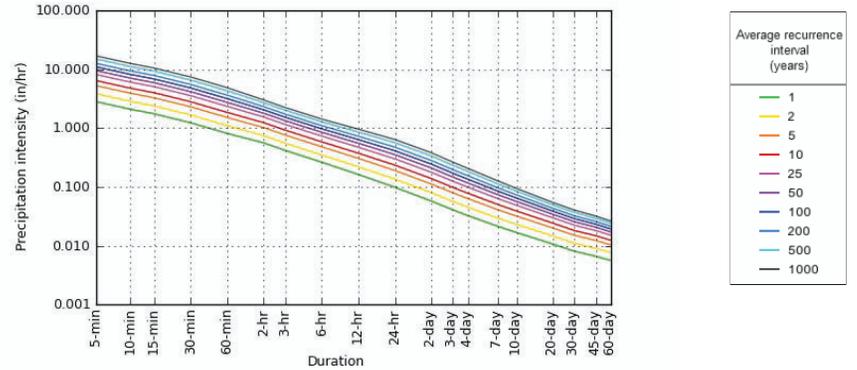
PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	2.82 (2.50-3.52)	3.84 (3.12-4.66)	5.28 (4.25-6.41)	6.43 (5.16-7.86)	8.15 (6.42-10.1)	9.53 (7.45-11.9)	11.0 (8.50-13.9)	12.6 (9.58-16.2)	15.0 (11.1-19.6)	16.9 (12.2-22.5)
10-min	2.09 (1.85-2.60)	2.84 (2.32-3.45)	3.91 (3.15-4.75)	4.76 (3.83-5.83)	6.04 (4.76-7.45)	7.06 (5.53-8.83)	8.17 (6.29-10.3)	9.37 (7.10-12.0)	11.1 (8.20-14.5)	12.6 (9.05-16.7)
15-min	1.75 (1.55-2.18)	2.38 (1.94-2.89)	3.28 (2.64-3.98)	3.99 (3.20-4.88)	5.06 (3.99-6.24)	5.91 (4.63-7.39)	6.84 (5.27-8.63)	7.85 (5.94-10.0)	9.30 (6.87-12.2)	10.5 (7.58-14.0)
30-min	1.23 (1.09-1.54)	1.68 (1.36-2.03)	2.30 (1.86-2.80)	2.81 (2.25-3.43)	3.56 (2.81-4.39)	4.16 (3.26-5.20)	4.81 (3.71-6.08)	5.52 (4.18-7.07)	6.55 (4.83-8.56)	7.39 (5.33-9.83)
60-min	0.811 (0.716-1.01)	1.10 (0.898-1.34)	1.52 (1.22-1.84)	1.85 (1.48-2.26)	2.34 (1.85-2.89)	2.74 (2.14-3.42)	3.17 (2.44-4.00)	3.63 (2.75-4.65)	4.31 (3.18-5.63)	4.87 (3.51-6.47)
2-hr	0.561 (0.476-0.666)	0.742 (0.604-0.898)	1.02 (0.822-1.24)	1.24 (0.989-1.51)	1.54 (1.22-1.90)	1.79 (1.40-2.22)	2.04 (1.58-2.57)	2.31 (1.76-2.96)	2.70 (1.99-3.52)	3.01 (2.17-3.99)
3-hr	0.417 (0.350-0.494)	0.554 (0.452-0.671)	0.763 (0.615-0.925)	0.923 (0.742-1.13)	1.15 (0.915-1.43)	1.34 (1.05-1.67)	1.53 (1.18-1.93)	1.73 (1.31-2.21)	2.01 (1.49-2.63)	2.24 (1.62-2.97)
6-hr	0.263 (0.219-0.315)	0.349 (0.283-0.421)	0.480 (0.388-0.583)	0.584 (0.469-0.713)	0.731 (0.581-0.903)	0.849 (0.665-1.06)	0.971 (0.750-1.23)	1.10 (0.835-1.41)	1.28 (0.946-1.67)	1.43 (1.03-1.89)
12-hr	0.163 (0.134-0.196)	0.220 (0.179-0.267)	0.306 (0.247-0.371)	0.374 (0.301-0.457)	0.473 (0.375-0.584)	0.553 (0.433-0.688)	0.637 (0.491-0.802)	0.727 (0.551-0.928)	0.855 (0.631-1.11)	0.958 (0.689-1.27)
24-hr	0.099 (0.082-0.118)	0.136 (0.114-0.163)	0.190 (0.158-0.228)	0.235 (0.195-0.282)	0.300 (0.246-0.362)	0.353 (0.287-0.429)	0.411 (0.330-0.502)	0.474 (0.375-0.582)	0.565 (0.438-0.702)	0.640 (0.486-0.802)
2-day	0.057 (0.048-0.068)	0.080 (0.067-0.095)	0.112 (0.094-0.133)	0.138 (0.115-0.166)	0.177 (0.146-0.213)	0.209 (0.171-0.253)	0.243 (0.197-0.297)	0.281 (0.224-0.345)	0.335 (0.261-0.416)	0.380 (0.290-0.476)
3-day	0.041 (0.034-0.048)	0.057 (0.048-0.067)	0.079 (0.067-0.095)	0.098 (0.082-0.118)	0.125 (0.103-0.151)	0.147 (0.120-0.178)	0.171 (0.138-0.208)	0.197 (0.157-0.242)	0.234 (0.182-0.290)	0.264 (0.202-0.331)
4-day	0.032 (0.027-0.039)	0.045 (0.038-0.054)	0.063 (0.053-0.075)	0.078 (0.065-0.093)	0.099 (0.082-0.119)	0.116 (0.095-0.141)	0.135 (0.109-0.164)	0.154 (0.123-0.190)	0.183 (0.143-0.227)	0.206 (0.157-0.258)
7-day	0.021 (0.018-0.025)	0.030 (0.025-0.035)	0.041 (0.034-0.049)	0.050 (0.042-0.060)	0.064 (0.052-0.076)	0.074 (0.060-0.090)	0.085 (0.069-0.104)	0.097 (0.077-0.119)	0.114 (0.088-0.141)	0.127 (0.097-0.159)
10-day	0.017 (0.014-0.020)	0.023 (0.020-0.027)	0.032 (0.027-0.038)	0.039 (0.033-0.046)	0.049 (0.041-0.058)	0.057 (0.047-0.068)	0.065 (0.053-0.078)	0.073 (0.059-0.089)	0.085 (0.067-0.104)	0.094 (0.073-0.117)
20-day	0.011 (0.009-0.013)	0.015 (0.012-0.017)	0.020 (0.017-0.024)	0.024 (0.020-0.029)	0.030 (0.025-0.036)	0.034 (0.028-0.041)	0.039 (0.031-0.047)	0.043 (0.035-0.053)	0.049 (0.039-0.061)	0.054 (0.042-0.067)
30-day	0.008 (0.007-0.010)	0.011 (0.009-0.013)	0.015 (0.013-0.018)	0.018 (0.015-0.022)	0.022 (0.019-0.027)	0.026 (0.021-0.031)	0.029 (0.023-0.035)	0.032 (0.026-0.039)	0.037 (0.029-0.045)	0.040 (0.031-0.050)
45-day	0.007 (0.006-0.008)	0.009 (0.008-0.011)	0.012 (0.010-0.015)	0.015 (0.012-0.018)	0.018 (0.015-0.022)	0.021 (0.017-0.025)	0.023 (0.019-0.028)	0.026 (0.021-0.031)	0.029 (0.023-0.036)	0.032 (0.025-0.040)
60-day	0.006 (0.005-0.007)	0.008 (0.006-0.009)	0.010 (0.009-0.012)	0.012 (0.010-0.015)	0.015 (0.013-0.018)	0.017 (0.014-0.021)	0.019 (0.016-0.023)	0.021 (0.017-0.026)	0.024 (0.019-0.030)	0.026 (0.020-0.032)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based intensity-duration-frequency (IDF) curves
Latitude: 20.7907°, Longitude: -156.9376°



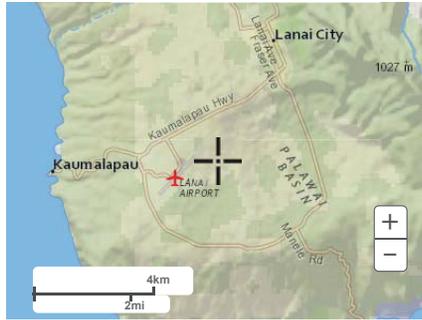
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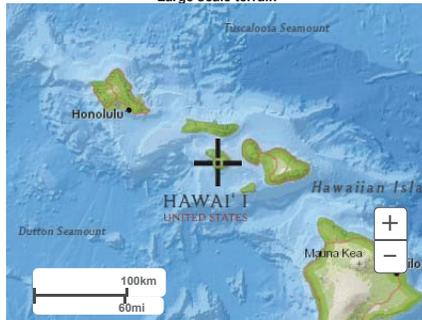
[Small scale terrain](#)

10/27/2018

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Large scale terrain



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Table 1

GUIDE FOR THE DETERMINATION OF RUNOFF COEFFICIENTS FOR BUILT-UP AREAS*

WATERSHED CHARACTERISTICS	EXTREME	HIGH	MODERATE	LOW
INFILTRATION	NEGLIGIBLE 0.20	SLOW 0.14	MEDIUM 0.07	HIGH 0.0
RELIEF	STEEP (> 25%) 0.08	HILLY (15 - 25%) 0.06	ROLLING (5 - 15%) 0.03	FLAT (0 - 5%) 0.0
VEGETAL COVER	NONE 0.07	POOR (< 10%) 0.05	GOOD (10 - 50%) 0.03	HIGH (50 - 90%) 0.0
DEVELOPMENT TYPE	INDUSTRIAL & BUSINESS 0.55	HOTEL - APARTMENT 0.45	RESIDENTIAL 0.40	AGRICULTURAL 0.15

*NOTE: The design coefficient "c" must result from a total of the values for all four watershed characteristics of the site.

Table 2

RUNOFF COEFFICIENTS

Type of Drainage Area	Runoff Coefficient C
Business:	
Downtown areas	0.95
Neighborhood areas	0.70
Residential:	
Single-family areas	0.50
Multi-units, detached	0.60
Multi-units, attached	0.75
Suburban	0.40
Apartment dwelling areas	0.70
Industrial:	
Light areas	0.80
Heavy areas	0.90
Parks, cemeteries	0.25
Playgrounds	0.35
Railroad-yard areas	0.40
Unimproved areas	0.30
Streets:	
Asphaltic	0.95
Concrete	0.95
Brick	0.85
Drive and walks	0.85
Roofs	0.95
Lawns:	
Sandy, soil, flat, 2%	0.10
Sandy, soil, avg., 2-7%	0.15
Sandy, soil, steep, 7%	0.20
Heavy soil, flat, 2%	0.17
Heavy soil, avg., 2-7%	0.22
Heavy soil, steep, 7%	0.35

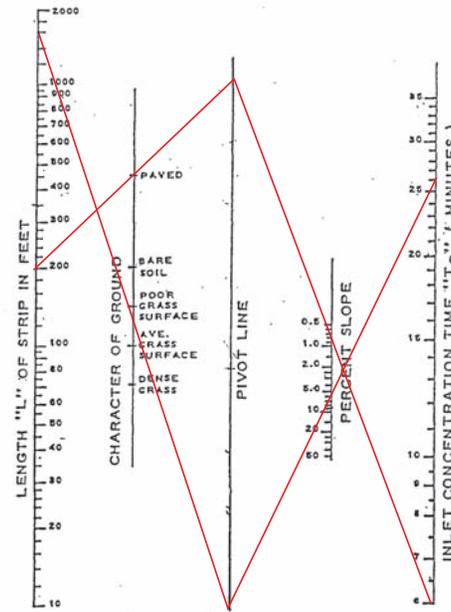
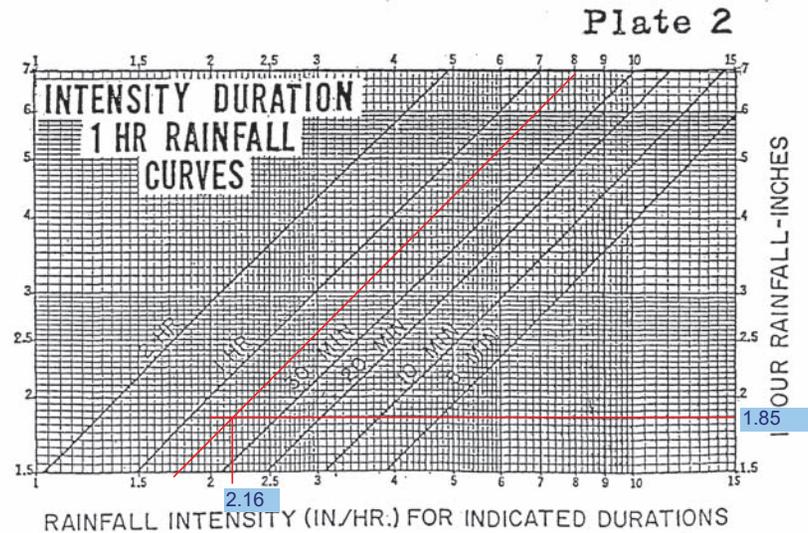


Plate 1
Overland
Flow
Chart





**HAWAI‘I STATE PLAN –
ASSESSMENT
OF PROJECT
APPLICABILITY
TO GOALS,
OBJECTIVES, AND
POLICIES**

APPENDIX

K-1

APPENDIX K-1

Analysis of Project Applicability to Hawai'i State Plan

Chapter 226, HRS, also known as the Hawai'i State Plan, is a long-range comprehensive plan which serves as a guide for the future long-term development of the State by identifying goals, objectives, policies, and priorities, as well as implementation mechanisms. The Plan consists of three (3) parts. Part I includes the Overall Theme, Goals, Objectives, and Policies; Part II includes Planning, Coordination, and Implementation; and Part III establishes Priority Guidelines. Inasmuch as Part II of the State Plan covers its administrative structure and implementation process, discussion of the proposed project's applicability to Part II is not appropriate. Below is an analysis of the project's applicability to Part I and Part III of the Hawai'i State Plan.

The methodology for the analysis involves examining the project's applicability to the Hawai'i State Plan's goals, objectives, and policies. "Applicability" refers to a project's need, purpose and effects, and how these advance or promote a particular set of goals, objectives and priority guidelines. In assessing the relationship between a proposed action and the Hawai'i State Plan, an action may be categorized in one of the following groups:

1. **Directly applicable:** the action and its potential effects directly advances or promotes the objective, policy or priority guideline.

Example: A county project to develop a new water source and related transmission facilities would be directly applicable to the objectives and policies for Facility Systems-Water (HRS 226-16) which states" (5) *Support water supply services to areas experiencing critical water problems.*

2. **Indirectly applicable:** the action and its potential effects indirectly supports or advances the objective, policy or priority guideline.

Example: The county water source project cited above supports other related objectives and policies for the economy (HRS 226-6, General), which, by example, states: (9) *Strive to achieve a level of construction activity responsive to, and consistent with, state growth objectives.* In this case, the principle purpose of the project was not to create new construction activities, but nonetheless, supports this policy by creating temporary construction activity during the implementation of the project. In this instance, the proposed action may be deemed to be indirectly applicable to the objective and policy of the Hawai'i State Plan.

3. **Not applicable:** the action and its potential effects have no direct or indirect relationship to the objectives and policies of the Hawai'i State Plan.

Example: That same county water source improvement project referenced above, may not have direct or indirect linkage to objectives and policies for the economy-Federal Expenditures (HRS 226-9) which states: (1) *Encourage the sustained flow of federal expenditures in Hawaii that generates long-term government civilian employment.* From the standpoint of the agency proposing the water system improvement, and assuming no Federal Funding for the project, there is an unlikely intent that the proposed water source project would be connected to or reliant upon the foregoing policy. Hence, from the standpoint of judiciously applied policy analysis, the proposed action would be considered not applicable to the policy.

In general, a proposed action's applicability the objectives, policies and priority guidelines of the Hawai'i State Plan is judged on the basis of the action's direct or indirect relationship to the respective objectives, policies and priority directions. It is recognized that the categorization of "applicability" is subject to interpretation and should be appropriately considered in the context of local and regional conditions.

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
HRS 226-1: Findings and Purpose			
HRS 226-2: Definitions			
HRS 226-3: Overall Theme			
HRS 226-4: State Goals. In order to guarantee, for the present and future generations, those elements of choice and mobility that insure that individuals and groups may approach their desired levels of self-reliance and self determination, it shall be the goal of the State to achieve: (1) A strong, viable economy, characterized by stability, diversity, and growth, that enables the fulfillment of the needs and expectations of Hawaii's present and future generations. (2) A desired physical environment, characterized by beauty, cleanliness, quiet, stable natural systems, and uniqueness, that enhances the mental and physical well-being of the people. (3) Physical, social, and economic well-being, for individuals and families in Hawaii, that nourishes a sense of community responsibility, of caring, and of participation in community life.			
Analysis: The proposed Miki Basin Expansion Project encompasses a planned industrial area designed to accommodate a diverse range of uses including traditional industrial uses, renewable energy products, and endeavors which advance new business ventures. In the context of a master planned complex, the proposed action ensures a strong and viable economy for the island of Lāna'i, while addressing environmental and socio-economic needs of the island's residents.			
Chapter 226-5 Objective and Policies for Population			
Objective: It shall be the objective in planning for the State's population to guide population growth to be consistent with the achievement of physical, economic and social objectives contained in this chapter.	✓		
Policies:			
(1) Manage population growth statewide in a manner that provides increased opportunities for Hawaii's people to pursue their physical, social, and economic aspirations while recognizing the unique needs of each county.		✓	
(2) Encourage an increase in economic activities and employment opportunities on the neighbor islands consistent with community needs and desires.	✓		

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
(3) Promote increased opportunities for Hawaii's people to pursue their socio-economic aspirations throughout the islands.	✓		
(4) Encourage research activities and public awareness programs to foster an understanding of Hawaii's limited capacity to accommodate population needs and to address concerns resulting from an increase in Hawaii's population.		✓	
(5) Encourage federal actions and coordination among major governmental agencies to promote a more balanced distribution of immigrants among the states, provided that such actions do not prevent the reunion of immediate family members.			✓
(6) Pursue an increase in federal assistance for states with a greater proportion of foreign immigrants relative to their state's population.			✓
(7) Plan the development and availability of land and water resources in a coordinated manner so as to provide for the desired levels of growth in each geographic area.		✓	
Analysis: The proposed actions are directly applicable to the goal of a strong economy as it will create new employment during the construction phase of project development. With the implementation of the project, long-term employment opportunities will also be created. The project will provide a land use hub where new business formation can be supported. In this regard, the proposed action provides opportunity for residents of Lāna'i to pursue their economic aspirations. Through the planning process, water resource requirements will be studied to ensure that project can be implemented within the capacity parameters of the island's water resources.			
Chapter 226-6 Objectives and policies for the economy -- in general			
Objectives: Planning for the State's economy in general shall be directed toward achievement of the following objectives:			
(1) Increased and diversified employment opportunities to achieve full employment, increased income and job choice, and improved living standards for Hawaii's people, while at the same time stimulating the development and expansion of economic activities capitalizing on defense, dual-use, and science and technology assets, particularly on the neighbor islands where employment opportunities may be limited.		✓	
(2) A steadily growing and diversified economic base that is not overly dependent on a few industries, and includes the development and expansion of industries on the neighbor islands.	✓		
Policies:			
(1) Promote and encourage entrepreneurship within Hawaii by residents and nonresidents of the State.		✓	
(2) Expand Hawaii's national and international marketing, communication, and organizational ties, to increase the State's capacity to adjust to and capitalize upon economic changes and opportunities occurring outside the State.			✓
(3) Promote Hawaii as an attractive market for environmentally and socially sound investment activities that benefit Hawaii's people.			✓
(4) Transform and maintain Hawaii as a place that welcomes and facilitates innovative activity that may lead to commercial opportunities.			✓
(5) Promote innovative activity that may pose initial risks, but ultimately contribute to the economy of Hawaii.			✓

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
(6) Seek broader outlets for new or expanded Hawaii business investments.			✓
(7) Expand existing markets and penetrate new markets for Hawaii's products and services.			✓
(8) Assure that the basic economic needs of Hawaii's people are maintained in the event of disruptions in overseas transportation.		✓	
(9) Strive to achieve a level of construction activity responsive to, and consistent with, state growth objectives.	✓		
(10) Encourage the formation of cooperatives and other favorable marketing arrangements at the local or regional level to assist Hawaii's small scale producers, manufacturers, and distributors.			✓
(11) Encourage labor-intensive activities that are economically satisfying and which offer opportunities for upward mobility.		✓	
(12) Encourage innovative activities that may not be labor-intensive, but may otherwise contribute to the economy of Hawaii.			✓
(13) Foster greater cooperation and coordination between the government and private sectors in developing Hawaii's employment and economic growth opportunities.			✓
(14) Stimulate the development and expansion of economic activities which will benefit areas with substantial or expected employment problems.			✓
(15) Maintain acceptable working conditions and standards for Hawaii's workers.		✓	
(16) Provide equal employment opportunities for all segments of Hawaii's population through affirmative action and nondiscrimination measures.		✓	
(17) Stimulate the development and expansion of economic activities capitalizing on defense, dual-use, and science and technology assets, particularly on the neighbor islands where employment opportunities may be limited.			✓
(18) Encourage businesses that have favorable financial multiplier effects within Hawaii's economy, particularly with respect to emerging industries in science and technology.			✓
(19) Promote and protect intangible resources in Hawaii, such as scenic beauty and the aloha spirit, which are vital to a healthy economy.			✓
(20) Increase effective communication between the educational community and the private sector to develop relevant curricula and training programs to meet future employment needs in general, and requirements of new or innovative potential growth industries in particular.			✓
(21) Foster a business climate in Hawaii--including attitudes, tax and regulatory policies, and financial and technical assistance programs-- that is conducive to the expansion of existing enterprises and the creation and attraction of new business and industry.			✓
Analysis: The proposed action is directly and indirectly applicable to this objective and its related policies of increasing economic activities and supporting Hawaii's people to pursue their socio-economic aspirations. New employment opportunities will be available during the construction phase of project development. As well, permanent employment opportunities will be available once construction is completed and tenant business operations initiated. Such opportunities may include business ventures which advance entrepreneurship by local residents.			

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies			
Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable			
	DA	IA	NA
Chapter 226-7 Objectives and policies for the economy -- agriculture.			
Objectives: Planning for the State's economy with regard to agriculture shall be directed towards achievement of the following objectives:			
(1) Viability of Hawaii's sugar and pineapple industries.			✓
(2) Growth and development of diversified agriculture throughout the State.			✓
(3) An agriculture industry that continues to constitute a dynamic and essential component of Hawaii's strategic, economic, and social well-being.			✓
Policies:			
(1) Establish a clear direction for Hawaii's agriculture through stakeholder commitment and advocacy.			✓
(2) Encourage agriculture by making the best use of natural resources.			✓
(3) Provide the governor and the legislature with information and options needed for prudent decision-making for the development of agriculture.			✓
(4) Establish strong relationships between the agricultural and visitor industries for mutual marketing benefits.			✓
(5) Foster increased public awareness and understanding of the contributions and benefits of agriculture as a major sector of Hawaii's economy.			✓
(6) Seek the enactment and retention of federal and state legislation that benefits Hawaii's agricultural industries.			✓
(7) Strengthen diversified agriculture by developing an effective promotion, marketing, and distribution system between Hawaii's food producers and consumers in the State, nation, and world.			✓
(8) Support research and development activities that strengthen economic productivity in agriculture, stimulate greater efficiency, and enhance the development of new products and agricultural by-products.			✓
(9) Enhance agricultural growth by providing public incentives and encouraging private initiatives.			✓
(10) Assure the availability of agriculturally suitable lands with adequate water to accommodate present and future needs.			✓
(11) Increase the attractiveness and opportunities for an agricultural education and livelihood.			✓
(12) In addition to the State's priority on food, expand Hawaii's agricultural base by promoting growth and development of flowers, tropical fruits and plants, livestock, feed grains, forestry, food crops, aquaculture, and other potential enterprises.		✓	
(13) Promote economically competitive activities that increase Hawaii's agricultural self-sufficiency, including the increased purchase and use of Hawaii-grown food and food products by residents, businesses, and governmental bodies as defined under section 103D-104.			✓
(14) Promote and assist in the establishment of sound financial programs for diversified agriculture.			✓

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies			
Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable			
	DA	IA	NA
(15) Institute and support programs and activities to assist the entry of displaced agricultural workers into alternative agricultural or other employment.			✓
(16) Facilitate the transition of agricultural lands in economically nonfeasible agricultural production to economically viable agricultural uses.			✓
(17) Perpetuate, promote, and increase use of traditional Hawaiian farming systems, such as the use of loko i'a, māla, and irrigated lo'i, and growth of traditional Hawaiian crops, such as kalo, 'uala, and 'ulu.			✓
(18) Increase and develop small-scale farms.			✓
Analysis: The proposed action, in general, does not directly affect the economic objectives and policies for agriculture. In this regard, the project does not affect the viability of Hawaii's sugar and pineapple industries, and does not affect the growth and development of diversified agriculture throughout the State. As well, the project does not impact the agricultural industry's position as a dynamic and essential component of Hawaii' strategic, economic and social well-being. Notwithstanding, the potential for a new slaughterhouse to be implemented within the proposed project limits is supportive of livestock production activities which holds potential as an important economic activity on the island.			
Chapter 226-8 Objective and policies for the economy -- visitor industry.			
Objective: Planning for the State's economy with regard to the visitor industry shall be directed towards the achievement of the objective of a visitor industry that constitutes a major component of steady growth for Hawaii's economy.			
Policies:			
(1) Support and assist in the promotion of Hawaii's visitor attractions and facilities.			✓
(2) Ensure that visitor industry activities are in keeping with the social, economic, and physical needs and aspirations of Hawaii's people.			✓
(3) Improve the quality of existing visitor destination areas by utilizing Hawaii's strengths in science and technology.			✓
(4) Encourage cooperation and coordination between the government and private sectors in developing and maintaining well-designed, adequately serviced visitor industry and related developments which are sensitive to neighboring communities and activities.			✓
(5) Develop the industry in a manner that will continue to provide new job opportunities and steady employment for Hawaii's people.			✓
(6) Provide opportunities for Hawaii's people to obtain job training and education that will allow for upward mobility within the visitor industry.			✓
(7) Foster a recognition of the contribution of the visitor industry to Hawaii's economy and the need to perpetuate the aloha spirit.			✓
(8) Foster an understanding by visitors of the aloha spirit and of the unique and sensitive character of Hawaii's cultures and values.			✓
Analysis: The proposed action does not hold direct and indirect applicability to the objective and policies for the economy as it relates to the visitor industry. For example, the proposed action does not improve the quality of visitor destination areas, nor does it provide opportunity for upward mobility of residents in the visitor industry. Instead, the proposed action is intended to provide diversification opportunities related to renewable energy, existing industrial uses which may relocate to the project area, and new industrial ventures.			

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
Chapter 226-9 Objective and policies for the economy -- federal expenditures.			
Objective: Planning for the State's economy with regard to federal expenditures shall be directed towards achievement of the objective of a stable federal investment base as an integral component of Hawaii's economy.			✓
Policies:			
(1) Encourage the sustained flow of federal expenditures in Hawaii that generates long-term government civilian employment;			✓
(2) Promote Hawaii's supportive role in national defense, in a manner consistent with Hawaii's social, environmental, and cultural goals by building upon dual-use and defense applications to develop thriving ocean engineering, aerospace research and development, and related dual-use technology sectors in Hawaii's economy;			✓
(3) Promote the development of federally supported activities in Hawaii that respect statewide economic concerns, are sensitive to community needs, and minimize adverse impacts on Hawaii's environment;			✓
(4) Increase opportunities for entry and advancement of Hawaii's people into federal government service;			✓
(5) Promote federal use of local commodities, services, and facilities available in Hawaii;			✓
(6) Strengthen federal-state-county communication and coordination in all federal activities that affect Hawaii; and			✓
(7) Pursue the return of federally controlled lands in Hawaii that are not required for either the defense of the nation or for other purposes of national importance, and promote the mutually beneficial exchanges of land between federal agencies, the State, and the counties.			✓
Analysis: The proposed action does not hold direct and indirect applicability to the objective and policies for the economy as it relates to the federal expenditures.			
Chapter 226-10 Objective and policies for the economy -- potential growth and innovative activities.			
Objective: Planning for the State's economy with regard to potential growth and innovative activities shall be directed towards achievement of the objective of development and expansion of potential growth and innovative activities that serve to increase and diversify Hawaii's economic base.		✓	
Policies:			
(1) Facilitate investment and employment growth in economic activities that have the potential to expand and diversify Hawaii's economy, including but not limited to diversified agriculture, aquaculture, renewable energy development, creative media, health care, and science and technology-based sectors;		✓	
(2) Facilitate investment in innovative activity that may pose risks or be less labor-intensive than other traditional business activity, but if successful, will generate revenue in Hawaii through the export of services or products or substitution of imported services or products;			✓
(3) Encourage entrepreneurship in innovative activity by academic researchers and instructors who may not have the background, skill, or initial inclination to commercially exploit their discoveries or achievements;			✓

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
(4) Recognize that innovative activity is not exclusively dependent upon individuals with advanced formal education, but that many self-taught, motivated individuals are able, willing, sufficiently knowledgeable, and equipped with the attitude necessary to undertake innovative activity;			✓
(5) Increase the opportunities for investors in innovative activity and talent engaged in innovative activity to personally meet and interact at cultural, art, entertainment, culinary, athletic, or visitor-oriented events without a business focus;			✓
(6) Expand Hawaii's capacity to attract and service international programs and activities that generate employment for Hawaii's people;			✓
(7) Enhance and promote Hawaii's role as a center for international relations, trade, finance, services, technology, education, culture, and the arts;			✓
(8) Accelerate research and development of new energy-related industries based on wind, solar, ocean, underground resources, and solid waste;		✓	
(9) Promote Hawaii's geographic, environmental, social, and technological advantages to attract new or innovative economic activities into the State;			✓
(10) Provide public incentives and encourage private initiative to attract new or innovative industries that best support Hawaii's social, economic, physical, and environmental objectives;			✓
(11) Increase research and the development of ocean-related economic activities such as mining, food production, and scientific research;			✓
(12) Develop, promote, and support research and educational and training programs that will enhance Hawaii's ability to attract and develop economic activities of benefit to Hawaii;			✓
(13) Foster a broader public recognition and understanding of the potential benefits of new or innovative growth-oriented industry in Hawaii;			✓
(14) Encourage the development and implementation of joint federal and state initiatives to attract federal programs and projects that will support Hawaii's social, economic, physical, and environmental objectives;			✓
(15) Increase research and development of businesses and services in the telecommunications and information industries;			✓
(16) Foster the research and development of nonfossil fuel and energy efficient modes of transportation; and			✓
(17) Recognize and promote health care and health care information technology as growth industries.			✓
Analysis: The proposed action does not have a direct relationship to economic objectives and policies relating to potential growth and innovative activities. However, it does have an indirect relationship to this policy area as the proposed action does support the development and expansion of a diversified economic base. In particular, the proposed action envisions the promotion of renewable energy activities as part of its land use portfolio.			
Chapter 226-10.5 Objectives and policies for the economy -- information industry.			
Objective: Planning for the State's economy with regard to telecommunications and information technology shall be directed toward recognizing that broadband and wireless communication capability and infrastructure are foundations for an innovative economy and positioning Hawaii as a leader in broadband and wireless communications and applications in the Pacific Region.			✓

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
Policies:			
(1) Promote efforts to attain the highest speeds of electronic and wireless communication within Hawaii and between Hawaii and the world, and make high speed communication available to all residents and businesses in Hawaii;			✓
(2) Encourage the continued development and expansion of the telecommunications infrastructure serving Hawaii to accommodate future growth and innovation in Hawaii's economy;			✓
(3) Facilitate the development of new or innovative business and service ventures in the information industry which will provide employment opportunities for the people of Hawaii;			✓
(4) Encourage mainland- and foreign-based companies of all sizes, whether information technology-focused or not, to allow their principals, employees, or contractors to live in and work from Hawaii, using technology to communicate with their headquarters, offices, or customers located out-of-state;			✓
(5) Encourage greater cooperation between the public and private sectors in developing and maintaining a well-designed information industry;			✓
(6) Ensure that the development of new businesses and services in the industry are in keeping with the social, economic, and physical needs and aspirations of Hawaii's people;			✓
(7) Provide opportunities for Hawaii's people to obtain job training and education that will allow for upward mobility within the information industry;			✓
(8) Foster a recognition of the contribution of the information industry to Hawaii's economy; and			✓
(9) Assist in the promotion of Hawaii as a broker, creator, and processor of information in the Pacific.			✓
Analysis: The objectives and policies for the economy as it relates to information technology are not directly or indirectly affected by the proposed action. The project is not anticipated to have a linkage to the development and enhancement of broadband and wireless communication capability and infrastructure, and is not an influencing factor in positioning Hawaii as a leader telecommunications and information technology in the Pacific Region.			
Chapter 226-11 Objectives and policies for the physical environment -- land based, shoreline, and marine resources.			
Objectives: Planning for the State's physical environment with regard to land-based, shoreline, and marine resources shall be directed towards achievement of the following objectives:			
(1) Prudent use of Hawaii's land-based, shoreline, and marine resources.		✓	
(2) Effective protection of Hawaii's unique and fragile environmental resources.			✓
Policies:			
(1) Exercise an overall conservation ethic in the use of Hawaii's natural resources.		✓	
(2) Ensure compatibility between land-based and water-based activities and natural resources and ecological systems.		✓	
(3) Take into account the physical attributes of areas when planning and designing activities and facilities.		✓	

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(4) Manage natural resources and environs to encourage their beneficial and multiple use without generating costly or irreparable environmental damage.			✓
(5) Consider multiple uses in watershed areas, provided such uses do not detrimentally affect water quality and recharge functions.			✓
(6) Encourage the protection of rare or endangered plant and animal species and habitats native to Hawaii.		✓	
(7) Provide public incentives that encourage private actions to protect significant natural resources from degradation or unnecessary depletion.			✓
(8) Pursue compatible relationships among activities, facilities, and natural resources.			✓
(9) Promote increased accessibility and prudent use of inland and shoreline areas for public recreational, educational, and scientific purposes.			✓
Analysis: The proposed action has both direct and indirect relationships to the objective and policies for the physical environment as it relates to land-based, shoreline, and marine resources. While the project is not located in proximity to the shoreline, attention will be given to ensure that impacts of land-based activities do not detrimentally affect natural resources, including parameters of water quality, marine habitats, and related ecological systems. The biological resources study conducted as part of the environmental review process represents an effort to protect any rare and endangered plant and animal species, and their habitats native to Hawaii that may be present in the vicinity of the proposed action. In addition, preliminary engineering analysis has identified Best Management Practices (BMPs) intended to protect the environment from the adverse effects of construction.			
Chapter 226-12 Objective and policies for the physical environment -- scenic, natural beauty, and historic resources.			
Objective: Planning for the State's physical environment shall be directed towards achievement of the objective of enhancement of Hawaii's scenic assets, natural beauty, and multi-cultural/historical resources.		✓	
Policies:			
(1) Promote the preservation and restoration of significant natural and historic resources.		✓	
(2) Provide incentives to maintain and enhance historic, cultural, and scenic amenities.			✓
(3) Promote the preservation of views and vistas to enhance the visual and aesthetic enjoyment of mountains, ocean, scenic landscapes, and other natural features.			✓
(4) Protect those special areas, structures, and elements that are an integral and functional part of Hawaii's ethnic and cultural heritage.			✓
(5) Encourage the design of developments and activities that complement the natural beauty of the islands.	✓		
Analysis: The objectives and policies for the physical environment (scenic, natural beauty, and historic resources) are directly and indirectly applicable to the proposed action. An archaeological inventory survey and a cultural impact assessment were undertaken for the project. These studies are aimed at identifying valued resources and practices which should be addressed and respected as part of the project development process. The project site is not part of a scenic corridor and will not affect scenic vistas or view planes.			

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies			
Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable			
	DA	IA	NA
Chapter 226-13 Objectives and policies for the physical environment -- land, air, and water quality.			
Objectives: Planning for the State's physical environment with regard to land, air, and water quality shall be directed towards achievement of the following objectives.			
(1) Maintenance and pursuit of improved quality in Hawaii's land, air, and water resources.	✓		
(2) Greater public awareness and appreciation of Hawaii's environmental resources.		✓	
Policies:			
(1) Foster educational activities that promote a better understanding of Hawaii's limited environmental resources.			✓
(2) Promote the proper management of Hawaii's land and water resources.		✓	
(3) Promote effective measures to achieve desired quality in Hawaii's surface, ground, and coastal waters.			✓
(4) Encourage actions to maintain or improve aural and air quality levels to enhance the health and well-being of Hawaii's people.		✓	
(5) Reduce the threat to life and property from erosion, flooding, tsunamis, hurricanes, earthquakes, volcanic eruptions, and other natural or man-induced hazards and disasters.	✓		
(6) Encourage design and construction practices that enhance the physical qualities of Hawaii's communities.			✓
(7) Encourage urban developments in close proximity to existing services and facilities.	✓		
(8) Foster recognition of the importance and value of the land, air, and water resources to Hawaii's people, their cultures and visitors.			✓
Analysis: The proposed action has both direct and indirect relationships to the objective and policies for the physical environment, land, air, and water quality. The proposed project will be implemented in proximity to existing infrastructure and services at Miki Basin and the nearby Lāna'i Airport. Construction BMPs will be used to manage and control erosion during grading operations to minimize downstream water quality impacts. Work on the project is not anticipated to be affected by natural hazards, and industry standard design and construction practices have been and will be employed for the project. DISCUSSION FROM HYDROGEOLOGICAL STUDY TO BE ADDED UPON RECEIPT			
Chapter 226-14 Objective and policies for facility systems -- in general.			
Objective: Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.			
Policies:			
(1) Accommodate the needs of Hawaii's people through coordination of facility systems and capital improvement priorities in consonance with state and county plans.		✓	
(2) Encourage flexibility in the design and development of facility systems to promote prudent use of resources and accommodate changing public demands and priorities.		✓	

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies			
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	DA	IA	NA
(3) Ensure that required facility systems can be supported within resource capacities and at reasonable cost to the user.		✓	
(4) Pursue alternative methods of financing programs and projects and cost-saving techniques in the planning, construction, and maintenance of facility systems.		✓	
Analysis: Facility system objectives and policies refers to water, transportation, waste disposal, energy and telecommunications systems. These facility policies are indirectly applicable to the proposed action. In general, water, transportation, waste disposal, and energy system capacities must be available to service the proposed action. Where improvements are needed, the applicant would be responsible for providing the requisite upgrades, in accordance with agency design standards.			
Chapter 226-15 Objectives and policies for facility systems -- solid and liquid waste.			
Objectives: Planning for the State's facility systems with regard to solid and liquid wastes shall be directed towards the achievement of the following objectives:			
(1) Maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes.		✓	
(2) Provision of adequate sewerage facilities for physical and economic activities that alleviate problems in housing, employment, mobility, and other areas.	✓		
Policies:			
(1) Encourage the adequate development of sewerage facilities that complement planned growth.	✓		
(2) Promote re-use and recycling to reduce solid and liquid wastes and employ a conservation ethic.	✓		
(3) Promote research to develop more efficient and economical treatment and disposal of solid and liquid wastes.		✓	
Analysis: The proposed action has applicability, both direct and indirect to the objective and policies for solid and liquid wastes. The applicant will be responsible for providing code compliant wastewater systems. As well, the project contractor will be responsible for managing construction waste disposal in accordance with policies of the Solid Waste Division of the Department of Environmental Management. Once the project is completed, tenants will be responsible for managing private solid waste collection services for their respective enterprises. In this regard, each tenant shall be responsible for supporting a conservation ethic through operations which encourage reuse and recycling.			
Chapter 226-16 Objective and policies for facility systems -- water.			
Objective: Planning for the State's facility systems with regard to water shall be directed towards achievement of the objective of the provision of water to adequately accommodate domestic, agricultural, commercial, industrial, recreational, and other needs within resource capacities.			
Policies:			
(1) Coordinate development of land use activities with existing and potential water supply.	✓		
(2) Support research and development of alternative methods to meet future water requirements well in advance of anticipated needs.			✓
(3) Reclaim and encourage the productive use of runoff water and wastewater discharges.			✓

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(4) Assist in improving the quality, efficiency, service, and storage capabilities of water systems for domestic and agricultural use.		✓	
(5) Support water supply services to areas experiencing critical water problems.		✓	
(6) Promote water conservation programs and practices in government, private industry, and the general public to help ensure adequate water to meet long-term needs.	✓		
Analysis: The objective and policies for facility systems—water, are directly and indirectly applicable to the proposed project. The applicant's engineer will coordinate with the Lana'i Water Company and the Department of Water Supply, as applicable, to ensure the adequacy of supply and transmission/distribution capacity. In addition, the design and operation of individual tenant facilities will include measures which will promote the conservation of water resources.			
Chapter 226-17 Objectives and policies for facility systems -- transportation.			
Objectives: Planning for the State's facility systems with regard to transportation shall be directed towards the achievement of the following objectives:			
(1) An integrated multi-modal transportation system that services statewide needs and promotes the efficient, economical, safe, and convenient movement of people and goods.			✓
(2) A statewide transportation system that is consistent with and will accommodate planned growth objectives throughout the State.			✓
Policies:			
(1) Design, program, and develop a multi-modal system in conformance with desired growth and physical development as stated in this chapter;			✓
(2) Coordinate state, county, federal, and private transportation activities and programs toward the achievement of statewide objectives;			✓
(3) Encourage a reasonable distribution of financial responsibilities for transportation among participating governmental and private parties;			✓
(4) Provide for improved accessibility to shipping, docking, and storage facilities;			✓
(5) Promote a reasonable level and variety of mass transportation services that adequately meet statewide and community needs;			✓
(6) Encourage transportation systems that serve to accommodate present and future development needs of communities;			✓
(7) Encourage a variety of carriers to offer increased opportunities and advantages to interisland movement of people and goods;			✓
(8) Increase the capacities of airport and harbor systems and support facilities to effectively accommodate transshipment and storage needs;			✓
(9) Encourage the development of transportation systems and programs which would assist statewide economic growth and diversification;			✓
(10) Encourage the design and development of transportation systems sensitive to the needs of affected communities and the quality of Hawaii's natural environment;			✓
(11) Encourage safe and convenient use of low-cost, energy-efficient, non-polluting means of transportation;			✓

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(12) Coordinate intergovernmental land use and transportation planning activities to ensure the timely delivery of supporting transportation infrastructure in order to accommodate planned growth objectives; and			✓
(13) Encourage diversification of transportation modes and infrastructure to promote alternate fuels and energy efficiency.			✓
Analysis: The proposed action is not directly or indirectly applicable to the objectives and policies for facility systems—transportation. For example, the project will not affect ocean and air transportation systems, nor will it affect intergovernmental coordination relating to transportation planning. In general, the proposed action does not promote the development of an integrated statewide multi-modal transportation system.			
Chapter 226-18 Objectives and policies for facility systems -- energy.			
Objectives: Planning for the State's facility systems with regard to energy shall be directed toward the achievement of the following objectives, giving due consideration to all:			
(1) Dependable, efficient, and economical statewide energy systems capable of supporting the needs of the people;		✓	
(2) Increased energy security and self-sufficiency through the reduction and ultimate elimination of Hawaii's dependence on imported fuels for electrical generation and ground transportation.	✓		
(3) Greater diversification of energy generation in the face of threats to Hawaii's energy supplies and systems;	✓		
(4) Reduction, avoidance, or sequestration of greenhouse gas emissions from energy supply and use; and	✓		
(5) Utility models that make the social and financial interests of Hawaii's utility customers a priority.			✓
Policies:			
(b) To achieve the energy objectives, it shall be the policy of this State to ensure the short- and long-term provision of adequate, reasonable prices, and dependable energy services to accommodate demand.			✓
(1) Support research and development as well as promote the use of renewable energy sources;	✓		
(2) Ensure that the combination of energy supplies and energy-saving systems is sufficient to support the demands of growth;		✓	
(3) Base decisions of least-cost supply-side and demand-side energy resource options on a comparison of their total costs and benefits when a least-cost is determined by a reasonably comprehensive, quantitative, and qualitative accounting of their long-term, direct and indirect economic, environmental, social, cultural, and public health costs and benefits;			✓
(4) Promote all cost-effective conservation of power and fuel supplies through measures, including:		✓	
(A) Development of cost-effective demand-side management programs;		✓	
(B) Education;			✓
(C) Adoption of energy-efficient practices and technologies; and		✓	

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
(D) Increasing energy efficiency and decreasing energy use in public infrastructure			✓
(5) Ensure, to the extent that new supply-side resources are needed, that the development or expansion of energy systems uses the least-cost energy supply option and maximizes efficient technologies; and			✓
(6) Support research, development, demonstration, and use of energy efficiency, load management, and other demand-side management programs, practices, and technologies;			✓
(7) Promote alternate fuels and transportation energy efficiency;			✓
(8) Support actions that reduce, avoid, or sequester greenhouse gases in utility, transportation, and industrial sector applications;	✓		
(9) Support actions that reduce, avoid, or sequester Hawaii's greenhouse gas emissions through agriculture and forestry initiatives;			✓
(10) Provide priority handling and processing for all state and county permits required for renewable energy projects;			✓
(11) Ensure that liquefied natural gas is used only as a cost-effective transitional, limited-term replacement of petroleum for electricity generation and does not impede the development and use of other cost-effective renewable energy sources; and			✓
(12) Promote the development of indigenous geothermal energy resources that are located on public trust land as an affordable and reliable source of firm power for Hawaii.			✓
Analysis: The proposed action has direct and indirect applicability to the objectives and policies for facility systems—energy. The proposed project will include 127 acres of land dedicated to renewable energy for the island of Lāna'i. As well, energy savings technologies will be employed during the operations phase of the project to the extent practicable. Such technologies relate to the use of high efficiency HVAC systems as well as energy efficient refrigeration systems in storage operations. The above actions are considered supportive of policies aimed at reducing greenhouse gases. Broader policies for energy savings such as those relating to transportation energy efficiency, priority processing of permits and geothermal energy resources are not applicable to the proposed action.			
Chapter 226-18.5 Objectives and policies for facility systems -- telecommunications.			
Objectives: Planning for the State's telecommunications facility systems shall be directed towards the achievement of dependable, efficient, and economical statewide telecommunications systems capable of supporting the needs of the people.			
Policies:			
(b) To achieve the telecommunications objective, it shall be the policy of this State to ensure the provision of adequate, reasonably priced, and dependable telecommunications services to accommodate demand.			✓
(1) Facilitate research and development of telecommunications systems and resources;			✓
(2) Encourage public and private sector efforts to develop means for adequate, ongoing telecommunications planning;			✓
(3) Promote efficient management and use of existing telecommunications systems and services; and			✓

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
(4) Facilitate the development of education and training of telecommunications personnel.			✓
Analysis: The proposed action does not hold direct or indirect applicability to the objectives and policies for facility systems—telecommunications. For example, the project does not promote or advance research and development of telecommunications systems and resources, nor does it promote efficient management of existing telecommunications systems and services.			
Chapter 226-19 Objectives and policies for socio-cultural advancement -- housing.			
Objectives: Planning for the State's socio-cultural advancement with regard to housing shall be directed toward the achievement of the following objectives:			
(1) Greater opportunities for Hawaii's people to secure reasonably priced, safe, sanitary, and livable homes, located in suitable environments that satisfactorily accommodate the needs and desires of families and individuals, through collaboration and cooperation between government and nonprofit and for-profit developers to ensure that more affordable housing is made available to very low-, low- and moderate-income segments of Hawaii's population.			✓
(2) The orderly development of residential areas sensitive to community needs and other land uses.			✓
(3) The development and provision of affordable rental housing by the State to meet the housing needs of Hawaii's people.			✓
Policies:			
(1) Effectively accommodate the housing needs of Hawaii's people.			✓
(2) Stimulate and promote feasible approaches that increase housing choices for low-income, moderate-income, and gap-group households.			✓
(3) Increase homeownership and rental opportunities and choices in terms of quality, location, cost, densities, style, and size of housing.			✓
(4) Promote appropriate improvement, rehabilitation, and maintenance of existing housing units and residential areas.			✓
(5) Promote design and location of housing developments taking into account the physical setting, accessibility to public facilities and services, and other concerns of existing communities and surrounding areas.			✓
(6) Facilitate the use of available vacant, developable, and underutilized urban lands for housing.			✓
(7) Foster a variety of lifestyles traditional to Hawaii through the design and maintenance of neighborhoods that reflect the culture and values of the community.			✓
(8) Promote research and development of methods to reduce the cost of housing construction in Hawaii.			✓
Analysis: The objectives and policies for socio-cultural advancement—housing are not applicable to the proposed action. As a planned industrial area for the island of Lana'i, there are no project-related plans directed towards the achievement of providing reasonably priced, safe, sanitary, and livable homes, nor are there project-related incentives which would advance the orderly development of residential areas, including affordable rental properties. From a policy standpoint, the proposed action does not promote rehabilitation and maintenance of existing housing nor does it promote research and development of methods to reduce housing construction.			

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies			
Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable			
	DA	IA	NA
Chapter 226-20 Objectives and policies for socio-cultural advancement -- health.			
Objectives: Planning for the State's socio-cultural advancement with regard to health shall be directed towards achievement of the following objectives:			
(1) Fulfillment of basic individual health needs of the general public.			✓
(2) Maintenance of sanitary and environmentally healthful conditions in Hawaii's communities.			✓
(3) Elimination of health disparities by identifying and addressing social determinants of health.			✓
Policies:			
(1) Provide adequate and accessible services and facilities for prevention and treatment of physical and mental health problems, including substance abuse.			✓
(2) Encourage improved cooperation among public and private sectors in the provision of health care to accommodate the total health needs of individuals throughout the State.			✓
(3) Encourage public and private efforts to develop and promote statewide and local strategies to reduce health care and related insurance costs.			✓
(4) Foster an awareness of the need for personal health maintenance and preventive health care through education and other measures.			✓
(5) Provide programs, services, and activities that ensure environmentally healthful and sanitary conditions.			✓
(6) Improve the State's capabilities in preventing contamination by pesticides and other potentially hazardous substances through increased coordination, education, monitoring, and enforcement.			✓
(7) Prioritize programs, services, interventions, and activities that address identified social determinants of health to improve native Hawaiian health and well-being consistent with the United States Congress' declaration of policy as codified in title 42 United States Code section 11702, and to reduce health disparities of disproportionately affected demographics, including native Hawaiians, other Pacific Islanders, and Filipinos. The prioritization of affected demographic groups other than native Hawaiians may be reviewed every ten years and revised based on the best available epidemiological and public health data.			✓
Analysis: The objectives and policies for socio-cultural advancement—health, do not have direct and indirect applicability to the proposed project. The action does not address health disparities or conditions of health in Hawaii's communities. For example, the project does not have a direct and indirect relationship to the policy of reducing health care and insurance costs, nor does it have a relationship to the adequacy and accessibility to services and facilities for addressing mental health needs.			
Chapter 226-21 Objectives and policies for Socio-cultural advancement -- education.			
Objective: Planning for the State's socio-cultural advancement with regard to education shall be directed towards achievement of the objective of the provision of a variety of educational opportunities to enable individuals to fulfill their needs, responsibilities, and aspirations.		✓	

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies			
Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable			
	DA	IA	NA
Policies:			
(1) Support educational programs and activities that enhance personal development, physical fitness, recreation, and cultural pursuits of all groups.		✓	
(2) Ensure the provision of adequate and accessible educational services and facilities that are designed to meet individual and community needs.			✓
(3) Provide appropriate educational opportunities for groups with special needs.			✓
(4) Promote educational programs which enhance understanding of Hawaii's cultural heritage.			✓
(5) Provide higher educational opportunities that enable Hawaii's people to adapt to changing employment demands.			✓
(6) Assist individuals, especially those experiencing critical employment problems or barriers, or undergoing employment transitions, by providing appropriate employment training programs and other related educational opportunities.			✓
(7) Promote programs and activities that facilitate the acquisition of basic skills, such as reading, writing, computing, listening, speaking, and reasoning.			✓
(8) Emphasize quality educational programs in Hawaii's institutions to promote academic excellence.			✓
(9) Support research programs and activities that enhance the education programs of the State.			✓
Analysis: The objectives and policies for socio-cultural advancement—education have indirect applicability to the proposed project. For example, the uses envisioned to be located within the proposed project, such as renewable energy initiatives will require employee training programs to ensure the effective conduct of operations. Other education-related policies of the Hawai'i State Plan, however, are not applicable to the proposed action, including policies related to educational programs promoting academic excellence.			
Chapter 226-22 Objective and policies for socio-cultural advancement -- social services.			
Objective: Planning for the State's socio-cultural advancement with regard to social services shall be directed towards the achievement of the objective of improved public and private social services and activities that enable individuals, families, and groups to become more self-reliant and confident to improve their well-being.			✓
Policies:			
(1) Assist individuals, especially those in need of attaining a minimally adequate standard of living and those confronted by social and economic hardship conditions, through social services and activities within the State's fiscal capacities.			✓
(2) Promote coordination and integrative approaches among public and private agencies and programs to jointly address social problems that will enable individuals, families, and groups to deal effectively with social problems and to enhance their participation in society.			✓
(3) Facilitate the adjustment of new residents, especially recently arrived immigrants, into Hawaii's communities.			✓
(4) Promote alternatives to institutional care in the provision of long-term care for elder and disabled populations.			✓

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(5) Support public and private efforts to prevent domestic abuse and child molestation, and assist victims of abuse and neglect.			✓
(6) Promote programs which assist people in need of family planning services to enable them to meet their needs.			✓
Analysis: The proposed action does not hold direct or indirect relationships to the objectives and policies for socio-cultural advancement--social services. The project will not affect programs related to victims of abuse and neglect, nor will affect the State's capacity to promote long-term care for elder and disabled populations. In general, the proposed action will not advance programs to improve public and private social services and activities.			
Chapter 226-23 Objective and policies for socio-cultural advancement -- leisure.			
Objective: Planning for the State's socio-cultural advancement with regard to leisure shall be directed towards the achievement of the objective of the adequate provision of resources to accommodate diverse cultural, artistic, and recreational needs for present and future generations.			✓
Policies:			
(1) Foster and preserve Hawaii's multi-cultural heritage through supportive cultural, artistic, recreational, and humanities-oriented programs and activities.			✓
(2) Provide a wide range of activities and facilities to fulfill the cultural, artistic, and recreational needs of all diverse and special groups effectively and efficiently.			✓
(3) Enhance the enjoyment of recreational experiences through safety and security measures, educational opportunities, and improved facility design and maintenance.			✓
(4) Promote the recreational and educational potential of natural resources having scenic, open space, cultural, historical, geological, or biological values while ensuring that their inherent values are preserved.			✓
(5) Ensure opportunities for everyone to use and enjoy Hawaii's recreational resources.			✓
(6) Assure the availability of sufficient resources to provide for future cultural, artistic, and recreational needs.			✓
(7) Provide adequate and accessible physical fitness programs to promote the physical and mental well-being of Hawaii's people.			✓
(8) Increase opportunities for appreciation and participation in the creative arts, including the literary, theatrical, visual, musical, folk, and traditional art forms.			✓
(9) Encourage the development of creative expression in the artistic disciplines to enable all segments of Hawaii's population to participate in the creative arts.			✓
(10) Assure adequate access to significant natural and cultural resources in public ownership.			✓
Analysis: The proposed action is not applicable to the objectives and policies for socio-cultural advancement leisure. In general, the project is not oriented towards the provision of resources to accommodate cultural, artistic, and recreational needs. While business venture within the project may include artisans and recreation-related ventures (e.g., gyms), at this early planning stage, such users have not indicated a commitment to locate their ventures within the project.			
Chapter 226-24 Objective and policies for socio-cultural advancement -- individual rights and personal well-being.			
Objective: Planning for the State's socio-cultural advancement with regard to individual rights and personal well-being shall be directed towards achievement of			✓

Hawai'i State Plan, Chapter 226, HRS Part I. Overall Themes, Goals, Objectives and Policies Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable	DA	IA	NA
the objective of increased opportunities and protection of individual rights to enable individuals to fulfill their socio-economic needs and aspirations.			
Policies:			
(1) Provide effective services and activities that protect individuals from criminal acts and unfair practices and that alleviate the consequences of criminal acts in order to foster a safe and secure environment.			✓
(2) Uphold and protect the national and state constitutional rights of every individual.			✓
(3) Assure access to, and availability of, legal assistance, consumer protection, and other public services which strive to attain social justice.			✓
(4) Ensure equal opportunities for individual participation in society.			✓
Analysis: The proposed action does not have a direct or indirect relationship to the objective and policies for socio-cultural advancement--individual rights. The project will not affect individual's access to legal rights and will not affect their opportunities for protection of individual rights.			
Chapter 226-25 Objective and policies for socio-cultural advancement -- culture.			
Objective: Planning for the State's socio-cultural advancement with regard to culture shall be directed toward the achievement of the objective of enhancement of cultural identities, traditions, values, customs, and arts of Hawaii's people.		✓	
Policies:			
(1) Foster increased knowledge and understanding of Hawaii's ethnic and cultural heritages and the history of Hawaii.		✓	
(2) Support activities and conditions that promote cultural values, customs, and arts that enrich the lifestyles of Hawaii's people and which are sensitive and responsive to family and community needs.		✓	
(3) Encourage increased awareness of the effects of proposed public and private actions on the integrity and quality of cultural and community lifestyles in Hawaii.			✓
(4) Encourage the essence of the aloha spirit in people's daily activities to promote harmonious relationships among Hawaii's people and visitors.			✓
Analysis: The objective and policies for socio-cultural advancement--culture have indirect applicability to the proposed action. The project's CIA and AIS indirectly supports a greater understanding of Hawaii's ethnic and cultural heritages. Such understanding is particularly important in raising awareness of the role of our Host culture in enriching the lifestyle of Hawaii's people.			
Chapter 226-26 Objectives and policies for socio-cultural advancement -- public safety.			
Objective: Planning for the State's socio-cultural advancement with regard to public safety shall be directed towards the achievement of the following objectives:			
(1) Assurance of public safety and adequate protection of life and property for all people.			✓
(2) Optimum organizational readiness and capability in all phases of emergency management to maintain the strength, resources, and social and economic well-being of the community in the event of civil disruptions, wars, natural disasters, and other major disturbances.			✓

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(3) Promotion of a sense of community responsibility for the welfare and safety of Hawaii's people.			✓
Policies (Public Safety):			
(1) Ensure that public safety programs are effective and responsive to community needs.			✓
(2) Encourage increased community awareness and participation in public safety programs.			✓
Policies (Public Safety-Criminal Justice):			
(1) Support criminal justice programs aimed at preventing and curtailing criminal activities.			✓
(2) Develop a coordinated, systematic approach to criminal justice administration among all criminal justice agencies.			✓
(3) Provide a range of correctional resources which may include facilities and alternatives to traditional incarceration in order to address the varied security needs of the community and successfully reintegrate offenders into the community.			✓
Policies (Public Safety – Emergency Management):			
(1) Ensure that responsible organizations are in a proper state of readiness to respond to major war-related, natural, or technological disasters and civil disturbances at all times.			✓
(2) Enhance the coordination between emergency management programs throughout the State.			✓
Analysis: The proposed action has no direct or indirect relationship to the objectives and policies for socio-cultural advancement–public safety. In particular, the proposed action is not aimed at supporting criminal justice programs nor does it provide assurance of adequate protection of life and property, optimum organizational readiness and capacity for emergency management, and a sense of community responsibility for the welfare and safety of Hawai'i's people. It is noted however, that in the context of the built-out project, appropriate measures for project security and tenant safety will be implemented (e.g., use of security contractors and systems, as appropriate).			
Chapter 226-27 Objectives and policies for socio-cultural advancement -- government.			
Objectives: Planning the State's socio-cultural advancement with regard to government shall be directed towards the achievement of the following objectives:			
(1) Efficient, effective, and responsive government services at all levels in the State.			✓
(2) Fiscal integrity, responsibility, and efficiency in the state government and county governments.			✓
Policies:			
(1) Provide for necessary public goods and services not assumed by the private sector.			✓
(2) Pursue an openness and responsiveness in government that permits the flow of public information, interaction, and response.			✓
(3) Minimize the size of government to that necessary to be effective.			✓

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(4) Stimulate the responsibility in citizens to productively participate in government for a better Hawaii.			✓
(5) Assure that government attitudes, actions, and services are sensitive to community needs and concerns.			✓
(6) Provide for a balanced fiscal budget.			✓
(7) Improve the fiscal budgeting and management system of the State.		✓	
(8) Promote the consolidation of state and county governmental functions to increase the effective and efficient delivery of government programs and services and to eliminate duplicative services wherever feasible.			✓
Analysis: The objective for socio-cultural advancement–government, in general, is not applicable to the proposed action. The project does not promote or advance efficient, effective, and responsive government services, and does not support fiscal integrity, responsibility and efficiency in State and County governments. It is noted however, that the proposed action will generate added property tax revenue for the County of Maui, thereby supporting the policy for a balanced fiscal budget.			

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Chapter 226-101: Purpose. The purpose of this part is to establish overall priority guidelines to address areas of statewide concern.			
Chapter 226-102: Overall direction. The State shall strive to improve the quality of life for Hawaii's present and future population through the pursuit of desirable courses of action in seven major areas of statewide concern which merit priority attention: economic development, population growth and land resource management, affordable housing, crime and criminal justice, quality education, principles of sustainability, and climate change adaptation.			
Chapter 226-103: Economic priority guidelines.			
(a) Priority guidelines to stimulate economic growth and encourage business expansion and development to provide needed jobs for Hawaii's people and achieve a stable and diversified economy:			
(1) Seek a variety of means to increase the availability of investment capital for new and expanding enterprises.			✓
(A) Encourage investments which:			✓
(i) Reflect long term commitments to the State;			✓
(ii) Rely on economic linkages within the local economy;			✓
(iii) Diversify the economy;			✓
(iv) Reinvest in the local economy;		✓	
(v) Are sensitive to community needs and priorities; and		✓	
(vi) Demonstrate a commitment to provide management opportunities to Hawaii residents; and			✓
(B) Encourage investments in innovative activities that have a nexus to the State, such as:			✓
(i) Present or former residents acting as entrepreneurs or principals;			✓

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(ii) Academic support from an institution of higher education in Hawaii;			✓
(iii) Investment interest from Hawaii residents;			✓
(iv) Resources unique to Hawaii that are required for innovative activity; and			✓
(v) Complementary or supportive industries or government programs or projects.			✓
(2) Encourage the expansion of technological research to assist industry development and support the development and commercialization of technological advancements.			✓
(3) Improve the quality, accessibility, and range of services provided by government to business, including data and reference services and assistance in complying with governmental regulations.			✓
(4) Seek to ensure that state business tax and labor laws and administrative policies are equitable, rational, and predictable.			✓
(5) Streamline the processes for building and development permit and review, and telecommunication infrastructure installation approval and eliminate or consolidate other burdensome or duplicative governmental requirements imposed on business, where scientific evidence indicates that public health, safety and welfare would not be adversely affected.			✓
(6) Encourage the formation of cooperatives and other favorable marketing or distribution arrangements at the regional or local level to assist Hawaii's small-scale producers, manufacturers, and distributors.			✓
(7) Continue to seek legislation to protect Hawaii from transportation interruptions between Hawaii and the continental United States.			✓
(8) Provide public incentives and encourage private initiative to develop and attract industries which promise long-term growth potentials and which have the following characteristics:			✓
(A) An industry that can take advantage of Hawaii's unique location and available physical and human resources.			✓
(B) A clean industry that would have minimal adverse effects on Hawaii's environment.			✓
(C) An industry that is willing to hire and train Hawaii's people to meet the industry's labor needs at all levels of employment.			✓
(D) An industry that would provide reasonable income and steady employment.			✓
(9) Support and encourage, through educational and technical assistance programs and other means, expanded opportunities for employee ownership and participation in Hawaii business.			✓
(10) Enhance the quality of Hawaii's labor force and develop and maintain career opportunities for Hawaii's people through the following actions:			✓
(A) Expand vocational training in diversified agriculture, aquaculture, information industry, and other areas where growth is desired and feasible.			✓
(B) Encourage more effective career counseling and guidance in high schools and post-secondary institutions to inform students of present and future career opportunities.			✓
(C) Allocate educational resources to career areas where high employment is expected and where growth of new industries is desired.			✓
(D) Promote career opportunities in all industries for Hawaii's people by encouraging firms doing business in the State to hire residents.			✓
(E) Promote greater public and private sector cooperation in determining industrial training needs and in developing relevant curricula and on-			✓

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the-job training opportunities.			✓
(F) Provide retraining programs and other support services to assist entry of displaced workers into alternative employment.			✓
(b) Priority guidelines to promote the economic health and quality of the visitor industry:			✓
(1) Promote visitor satisfaction by fostering an environment which enhances the Aloha Spirit and minimizes inconveniences to Hawaii's residents and visitors.			✓
(2) Encourage the development and maintenance of well-designed, adequately serviced hotels and resort destination areas which are sensitive to neighboring communities and activities and which provide for adequate shoreline setbacks and beach access.			✓
(3) Support appropriate capital improvements to enhance the quality of existing resort destination areas and provide incentives to encourage investment in upgrading, repair, and maintenance of visitor facilities.			✓
(4) Encourage visitor industry practices and activities which respect, preserve, and enhance Hawaii's significant natural, scenic, historic, and cultural resources.			✓
(5) Develop and maintain career opportunities in the visitor industry for Hawaii's people, with emphasis on managerial positions.			✓
(6) Support and coordinate tourism promotion abroad to enhance Hawaii's share of existing and potential visitor markets.			✓
(7) Maintain and encourage a more favorable resort investment climate consistent with the objectives of this chapter.			✓
(8) Support law enforcement activities that provide a safer environment for both visitors and residents alike.			✓
(9) Coordinate visitor industry activities and promotions to business visitors through the state network of advanced data communication techniques.			✓
(c) Priority guidelines to promote the continued viability of the sugar and pineapple industries:			✓
(1) Provide adequate agricultural lands to support the economic viability of the sugar and pineapple industries.			✓
(2) Continue efforts to maintain federal support to provide stable sugar prices high enough to allow profitable operations in Hawaii.			✓
(3) Support research and development, as appropriate, to improve the quality and production of sugar and pineapple crops.			✓
(d) Priority guidelines to promote the growth and development of diversified agriculture and aquaculture:			✓
(1) Identify, conserve, and protect agricultural and aquacultural lands of importance and initiate affirmative and comprehensive programs to promote economically productive agricultural and aquacultural uses of such lands.			✓
(2) Assist in providing adequate, reasonably priced water for agricultural activities.			✓
(3) Encourage public and private investment to increase water supply and to improve transmission, storage, and irrigation facilities in support of diversified agriculture and aquaculture.			✓
(4) Assist in the formation and operation of production and marketing associations and cooperatives to reduce production and marketing costs.			✓
(5) Encourage and assist with the development of a waterborne and airborne freight and cargo system capable of meeting the needs of Hawaii's agricultural community.			✓
(6) Seek favorable freight rates for Hawaii's agricultural products from interisland and overseas transportation operators.			✓

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(7) Encourage the development and expansion of agricultural and aquacultural activities which offer long-term economic growth potential and employment opportunities.			✓
(8) Continue the development of agricultural parks and other programs to assist small independent farmers in securing agricultural lands and loans.			✓
(9) Require agricultural uses in agricultural subdivisions and closely monitor the uses in these subdivisions.			✓
(10) Support the continuation of land currently in use for diversified agriculture.			✓
(11) Encourage residents and visitors to support Hawaii's farmers by purchasing locally grown food and food products.			✓
(e) Priority guidelines for water use and development:		✓	
(1) Maintain and improve water conservation programs to reduce the overall water consumption rate.		✓	
(2) Encourage the improvement of irrigation technology and promote the use of nonpotable water for agricultural and landscaping purposes.			✓
(3) Increase the support for research and development of economically feasible alternative water sources.			✓
(4) Explore alternative funding sources and approaches to support future water development programs and water system improvements.			✓
(f) Priority guidelines for energy use and development:	✓		
(1) Encourage the development, demonstration, and commercialization of renewable energy sources.	✓		
(2) Initiate, maintain, and improve energy conservation programs aimed at reducing energy waste and increasing public awareness of the need to conserve energy.			✓
(3) Provide incentives to encourage the use of energy conserving technology in residential, industrial, and other buildings.			✓
(4) Encourage the development and use of energy conserving and cost-efficient transportation systems.			✓
(g) Priority guidelines to promote the development of the information industry:			✓
(1) Establish an information network, with an emphasis on broadband and wireless infrastructure and capability that will serve as the foundation of and catalyst for overall economic growth and diversification in Hawaii.			✓
(2) Encourage the development of services such as financial data processing, a products and services exchange, foreign language translations, telemarketing, teleconferencing, a twenty-four-hour international stock exchange, international banking, and a Pacific Rim management center.			✓
(3) Encourage the development of small businesses in the information field such as software development; the development of new information systems, peripherals, and applications; data conversion and data entry services; and home or cottage services such as computer programming, secretarial, and accounting services.			✓
(4) Encourage the development or expansion of educational and training opportunities for residents in the information and telecommunications fields.			✓
(5) Encourage research activities, including legal research in the information and telecommunications fields.			✓
(6) Support promotional activities to market Hawaii's information industry services.			✓

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(7) Encourage the location or co-location of telecommunication or wireless information relay facilities in the community, including public areas, where scientific evidence indicates that the public health, safety, and welfare would not be adversely affected.			✓
Analysis: The proposed action indirectly supports priority guidelines to stimulate economic growth and to encourage business expansion. In particular, the project provides an opportunity for investment in the local economy which will translate to new employment opportunities for local residents. These investments are anticipated to create businesses which are responsive to community needs and priorities.			
The proposed action does not have applicability to guidelines relating to the viability of the sugar and pineapple industries, nor does it have applicability to guidelines relating to diversified agriculture and aquaculture.			
With respect to priority guidelines for water use and development, the proposed project will utilize water conservation measures (i.e., low flow devices) in building designs to the extent that such measures are compatible with tenant uses. Similarly, the proposed action will employ energy conservation measures such as high efficiency HVAC and refrigeration systems in warehousing and cold storage operations. (TO BE VERIFIED BY PL) As previously noted, renewable energy is envisioned to be a part of the project development area.			
Last, but not least, the proposed action is not applicable to priority guidelines relating to the development of the information technology industry. In particular, the proposed action does not affect marketing activities for information industry services, nor does it encourage research in the information and telecommunications fields.			
Chapter 226-104: Population growth and land resources priority guidelines.			
(a) Priority guidelines to effect desired statewide growth and distribution:			
(1) Encourage planning and resource management to insure that population growth rates throughout the State are consistent with available and planned resource capacities and reflect the needs and desires of Hawaii's people.			✓
(2) Manage a growth rate for Hawaii's economy that will parallel future employment needs for Hawaii's people.			✓
(3) Ensure that adequate support services and facilities are provided to accommodate the desired distribution of future growth throughout the State.			✓
(4) Encourage major state and federal investments and services to promote economic development and private investment to the neighbor islands, as appropriate.			✓
(5) Explore the possibility of making available urban land, low-interest loans, and housing subsidies to encourage the provision of housing to support selective economic and population growth on the neighbor islands.			✓
(6) Seek federal funds and other funding sources outside the State for research, program development, and training to provide future employment opportunities on the neighbor islands.			✓
(7) Support the development of high technology parks on the neighbor islands.			✓
(b) Priority guidelines for regional growth distribution and land resource utilization:			
(1) Encourage urban growth primarily to existing urban areas where adequate public facilities are already available or can be provided with reasonable public expenditures, and away from areas where other important benefits are present, such as protection of important agricultural land or preservation of lifestyles.	✓		

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(2) Make available marginal or nonessential agricultural lands for appropriate urban uses while maintaining agricultural lands of importance in the agricultural district.		✓	
(3) Restrict development when drafting of water would result in exceeding the sustainable yield or in significantly diminishing the recharge capacity of any groundwater area.			✓
(4) Encourage restriction of new urban development in areas where water is insufficient from any source for both agricultural and domestic use.			✓
(5) In order to preserve green belts, give priority to state capital-improvement funds which encourage location of urban development within existing urban areas except where compelling public interest dictates development of a noncontiguous new urban core.			✓
(6) Seek participation from the private sector for the cost of building infrastructure and utilities, and maintaining open spaces.	✓		
(7) Pursue rehabilitation of appropriate urban areas.			✓
(8) Support the redevelopment of Kakaako into a viable residential, industrial, and commercial community.			✓
(9) Direct future urban development away from critical environmental areas or impose mitigating measures so that negative impacts on the environment would be minimized.	✓		
(10) Identify critical environmental areas in Hawaii to include but not be limited to the following: watershed and recharge areas; wildlife habitats (on land and in the ocean); areas with endangered species of plants and wildlife; natural streams and water bodies; scenic and recreational shoreline resources; open space and natural areas; historic and cultural sites; areas particularly sensitive to reduction in water and air quality; and scenic resources.			✓
(11) Identify all areas where priority should be given to preserving rural character and lifestyle.			✓
(12) Utilize Hawaii's limited land resources wisely, providing adequate land to accommodate projected population and economic growth needs while ensuring the protection of the environment and the availability of the shoreline, conservation lands, and other limited resources for future generations.		✓	
(13) Protect and enhance Hawaii's shoreline, open spaces, and scenic resources.			✓
Analysis: The proposed action is located within an area designated by the Lāna'i Community Plan for "Light Industrial" and "Heavy Industrial" use. While the underlying lands are designated "Agricultural" by the State Land Use Commission and County zoning, the Community Plan's "Light Industrial" and "Heavy Industrial" land use designations recognize the need to provide for these critical economic development uses which may include relocation of uses from Lāna'i City and as a staging area for shipments from the Kaunalapau Harbor. This location, adjacent to Lāna'i Airport also assures that sensitive environments such as shoreline areas, open spaces, and scenic resources will be avoided.			
Chapter 226-105: Crime and criminal justice.			
Priority guidelines in the area of crime and criminal justice:			
(1) Support law enforcement activities and other criminal justice efforts that are directed to provide a safer environment.			✓
(2) Target state and local resources on efforts to reduce the incidence of violent crime and on programs relating to the apprehension and prosecution of repeat offenders.			✓

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(3) Support community and neighborhood program initiatives that enable residents to assist law enforcement agencies in preventing criminal activities.			✓
(4) Reduce overcrowding or substandard conditions in correctional facilities through a comprehensive approach among all criminal justice agencies which may include sentencing law revisions and use of alternative sanctions other than incarceration for persons who pose no danger to their community.			✓
(5) Provide a range of appropriate sanctions for juvenile offenders, including community-based programs and other alternative sanctions.			✓
(6) Increase public and private efforts to assist witnesses and victims of crimes and to minimize the costs of victimization.			✓
Analysis: The proposed action will not affect guidelines related to crime and criminal justice. For example, the project will not directly or indirectly affect law enforcement activities, levels of crime and violence, or conditions within correctional facilities.			
Chapter 226-106: Affordable housing.			
Priority guidelines for the provision of affordable housing:			
(1) Seek to use marginal or nonessential agricultural land and public land to meet housing needs of low- and moderate-income and gap-group households.			✓
(2) Encourage the use of alternative construction and development methods as a means of reducing production costs.			✓
(3) Improve information and analysis relative to land availability and suitability for housing.			✓
(4) Create incentives for development which would increase home ownership and rental opportunities for Hawaii's low- and moderate-income households, gap-group households, and residents with special needs.			✓
(5) Encourage continued support for government or private housing programs that provide low interest mortgages to Hawaii's people for the purchase of initial owner-occupied housing.			✓
(6) Encourage public and private sector cooperation in the development of rental housing alternatives.			✓
(7) Encourage improved coordination between various agencies and levels of government to deal with housing policies and regulations.			✓
(8) Give higher priority to the provision of quality housing that is affordable for Hawaii's residents and less priority to development of housing intended primarily for individuals outside of Hawaii.			✓
Analysis: With respect to the Hawai'i State Plan's priority guidelines for affordable housing, the proposed action is not applicable, either directly or indirectly, to the guidelines set forth in this section. For example, the project does not advance the provision of affordable rental housing projects, nor does it create incentives for increasing homeownership. In keeping with the Lana'i Community Plan, the primary goal of the project is to provide appropriately zoned lands which can accommodate light industrial and heavy industrial users.			
Chapter 226-107: Quality education.			
Priority guidelines to promote quality education:			
(1) Pursue effective programs which reflect the varied district, school, and student needs to strengthen basic skills achievement;			✓
(2) Continue emphasis on general education "core" requirements to provide common background to students and essential support to other university programs;			✓

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(3) Initiate efforts to improve the quality of education by improving the capabilities of the education work force;			✓
(4) Promote increased opportunities for greater autonomy and flexibility of educational institutions in their decision making responsibilities;			✓
(5) Increase and improve the use of information technology in education by the availability of telecommunications equipment for:			✓
(A) The electronic exchange of information;			✓
(B) Statewide electronic mail; and			✓
(C) Access to the Internet.			✓
(6) Encourage programs that increase the public's awareness and understanding of the impact of information technologies on our lives;			✓
(7) Pursue the establishment of Hawaii's public and private universities and colleges as research and training centers of the Pacific;			✓
(8) Develop resources and programs for early childhood education;			✓
(9) Explore alternatives for funding and delivery of educational services to improve the overall quality of education; and			✓
(10) Strengthen and expand educational programs and services for students with special needs.			✓
Analysis: The proposed project will not affect the priority guidelines relating to quality education. For example, the project will not affect the quality of educational programs and will not affect organizational and decision-making frameworks for educational institutions.			
CHAPTER 226-108: Sustainability			
Priority guidelines and principles to promote sustainability shall include:			
(1) Encouraging balanced economic, social, community, and environmental priorities;		✓	✓
(2) Encouraging planning that respects and promotes living within the natural resources and limits of the State;			✓
(3) Promoting a diversified and dynamic economy;		✓	
(4) Encouraging respect for the host culture;			✓
(5) Promoting decisions based on meeting the needs of the present without compromising the needs of future generations;		✓	
(6) Considering the principles of the ahupuaa system; and			✓
(7) Emphasizing that everyone, including individuals, families, communities, businesses, and government, has the responsibility for achieving a sustainable Hawaii.			✓
Analysis: The priority guidelines for sustainability are indirectly applicable to the proposed action. The project supports economic development, and over the long-term, will provide employment opportunities for Lāna'i residents. As an area set aside for light industrial and heavy industrial uses, the proposed action is in keeping with the Lāna'i Community Plan, which considers the needs of present and future generations.			
CHAPTER 226-109: Climate change adaptation			
Priority guidelines and principles to promote climate change adaptation shall include:			
(1) Ensure that Hawaii's people are educated, informed, and aware of the impacts climate change may have on their communities;			✓
(2) Encourage community stewardship groups and local stakeholders to participate in planning and implementation of climate change policies;			✓

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(3) Invest in continued monitoring and research of Hawaii's climate and the impacts of climate change on the State;			✓
(4) Consider native Hawaiian traditional knowledge and practices in planning for the impacts of climate change;			✓
(5) Encourage the preservation and restoration of natural landscape features, such as coral reefs, beaches and dunes, forests, streams, floodplains, and wetlands, that have the inherent capacity to avoid, minimize, or mitigate the impacts of climate change;			✓
(6) Explore adaptation strategies that moderate harm or exploit beneficial opportunities in response to actual or expected climate change impacts to the natural and built environments;		✓	
(7) Promote sector resilience in areas such as water, roads, airports, and public health, by encouraging the identification of climate change threats, assessment of potential consequences, and evaluation of adaptation options;			✓
(8) Foster cross-jurisdictional collaboration between county, state, and federal agencies and partnerships between government and private entities and other nongovernmental entities, including nonprofit entities;			✓
(9) Use management and implementation approaches that encourage the continual collection, evaluation, and integration of new information and strategies into new and existing practices, policies, and plans; and			✓
(10) Encourage planning and management of the natural and built environments that effectively integrate climate change policy.			✓
Analysis: The proposed action will support efforts which advance climate change policies. The planned use of a portion of the project area for renewable energy uses is viewed as an adaptation strategy for moderating climate change impacts.			



**COUNTYWIDE POLICY
PLAN – ASSESSMENT
OF PROJECT
APPLICABILITY TO
GOALS OBJECTIVES,
AND POLICIES**

**APPENDIX
K-2**

APPENDIX K-2

Analysis of Project Applicability to Countywide Policy Plan

The Countywide Policy Plan was adopted in March 2010 and is a comprehensive policy document for the islands of Maui County to the year 2030. The plan replaces the *General Plan of the County of Maui 1990 Update* and provides the policy framework for the development of the forthcoming Maui Island Plan as well as for updating the nine detailed Community Plans.

The Countywide Policy Plan provides broad goals, objectives, policies and implementing actions that portray the desired direction of the County's future. Goals are intended to describe a desirable condition of the County by the year 2030 and are intentionally general. Objectives tend to be more specific and may be regarded as milestones to achieve the larger goals. Policies are not intended as regulations, but instead provide a general guideline for County decision makers, departments, and collaborating organizations toward the attainment of goals and objectives. Implementing actions are specific tasks, procedures, programs, or techniques that carry out policy.

Discussion of the proposed project conforms to the relevant goals, objectives, policies, and implementing actions of the Countywide Policy Plan is provided below. The methodology for assessing a project's relationship to the Countywide Policy Plan involves examining the project's applicability to the Plan's goals, objectives, and policies. "Applicability" refers to a project's need, purpose and effects, and how they advance or promote a particular set of goals, objectives and policies. In assessing the relationship between a proposed action and the Countywide Policy Plan, an action may be categorized in one of the following groups:

1. **Directly applicable:** the action and its potential effects directly advances, promotes or affects the relevant goal, objective, or policy.

Example: A County project to develop a new water source and related transmission facilities would be directly applicable to improving physical infrastructure. The relevant objective states: *"Improve water systems to assure access to sustainable, clean, reliable, and affordable sources of water"* (Objective I.1). A policy within this objective category states: *Ensure that adequate supplies of water are available prior to approval of subdivision or construction documents* (Policy I.1.a).

In this instance, the proposed action is considered to be directly applicable to the cited objective and policy.

2. **Indirectly applicable:** the action and its potential effects indirectly supports, advances or affects the objective, policy or priority guideline.

Example: The county water source project cited above supports the objective to: *"Improve land use management and implement a directed-growth strategy"* (Objective J.1). A related policy encompassed by this objective states: *"Direct new development in*

and around communities with existing infrastructure and service capacity, and protect natural, scenic, shoreline, and cultural resources" (Policy J.1.h). In this case, the principle purpose of the project is not to create source specifically intended to improve land use management. Nonetheless, the proposed action indirectly supports the Countywide Policy Plan's directives relating to appropriate locations for new development.

3. **Not applicable:** the action and its potential effects have no direct or indirect relationship to the objectives and policies of the Countywide Policy Plan.

Example: The county water source improvement project referenced above, may not have direct or indirect linkage to Objective D.1, which states: *"In cooperation with the Federal and State governments and nonprofit agencies, broaden access to social and healthcare services and expand options to improve the overall wellness of the people of Maui County"*. Hence, from a policy analysis and linkage standpoint, the proposed action would be considered not applicable to this set of objectives and policies.

It is recognized that policy analysis is subject to interpretation and is best considered in the context of the proposed action's local and regional conditions.

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
A. PROTECT THE NATURAL ENVIRONMENT			
Goal: Maui County's natural environment and distinctive open spaces will be preserved, managed, and cared for in perpetuity.		✓	
Objective:			
(1) Improve the opportunity to experience the natural beauty and native biodiversity of the islands for present and future generations.		✓	
Policies:			
(a) Perpetuate native Hawaiian biodiversity by preventing the introduction of invasive species, containing or eliminating existing noxious pests, and protecting critical habitat areas.			✓
(b) Preserve and reestablish indigenous and endemic species' habitats and their connectivity.		✓	
(c) Restore and protect forests, wetlands, watersheds, and stream flows, and guard against wildfires, flooding, and erosion.			✓
(d) Protect baseline stream flows for perennial streams, and support policies that ensure adequate stream flow to support Native Hawaiian aquatic species, traditional kalo cultivation, and self-sustaining ahupua'a.			✓
(e) Protect undeveloped beaches, dunes, and coastal ecosystems, and restore natural shoreline processes.			✓
(f) Protect the natural state and integrity of unique terrain, valued natural environments, and geological features.			✓
(g) Preserve and provide ongoing care for important scenic vistas, view planes, landscapes, and open-space resources.			✓
(h) Expand coordination with the State and nonprofit agencies and their volunteers to reduce invasive species, replant indigenous species, and identify critical habitat.			✓
Implementing Actions:			
(a) Develop island-wide networks of greenways, watercourses, and habitat corridors.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
Analysis: The assessment of the proposed action included a biological resources survey addressing flora and fauna in the project area. While this assessment does not directly advance the policy of securing an interconnected network of indigenous and endemic species habitat, it does add to a data base which may be used to support future studies.						
Objective:						
(2) Improve the quality of environmentally sensitive, locally valued natural resources and native ecology of each island.						✓
Policies:						
(a) Protect and restore nearshore reef environments and water quality.						✓
(b) Protect marine resources and valued wildlife.						✓
(c) Improve the connection between urban environments and the natural landscape, and incorporate natural features of the land into urban design.						✓
(d) Utilize land-conservation tools to ensure the permanence of valued open spaces.						✓
(e) Mitigate the negative effects of upland uses on coastal wetlands, marine life, and coral reefs.						✓
(f) Strengthen coastal-zone management, re-naturalization of shorelines, where possible, and filtration or treatment of urban and agricultural runoff.						✓
(g) Regulate the use and maintenance of stormwater-treatment systems that incorporate the use of native vegetation and mimic natural systems.						✓
(h) Advocate for stronger regulation of fishing, boating, cruise ship, and ecotourism activities.						✓
(i) Restore watersheds and aquifer-recharge areas to healthy and productive status, and increase public knowledge about the importance of watershed stewardship, water conservation, and groundwater protection.						✓
Implementing Actions:						
(a) Develop regulations to minimize runoff of pollutants into nearshore waters and reduce nonpoint and point source pollution.						✓
Analysis: The proposed action does not have direct or indirect relationships to the objective to improve the quality of environmentally sensitive, valued natural environment and native ecology. However, the project will implement BMPs to ensure that stormwater runoff is appropriately mitigated. The proposed action does not affect open space preservation or regulatory mechanisms for ecotourism.						
Objective:						
(3) Improve the stewardship of the natural environment.	✓					
Policies:						
(a) Preserve and protect natural resources with significant scenic, economic, cultural, environmental, or recreational value.						✓
(b) Improve communication, coordination, and collaboration among government agencies, nonprofit organizations, communities, individuals, and land owners that work for the protection of the natural environment.						✓
(c) Evaluate development to assess potential short-term and long-term impacts on land, air, aquatic, and marine environments.	✓					
(d) Improve efforts to mitigate and plan for the impact of natural disasters, human influenced emergencies, and global warming.						✓
(e) Regulate access to sensitive ecological sites and landscapes.						✓
(f) Reduce air, noise, light, land, and water pollution, and reduce Maui County's contribution to global climate change.						✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
(g) Plan and prepare for and educate visitors and residents about the possible effects of global warming.						✓
(h) Provide public access to beaches and shorelines for recreational and cultural purposes where appropriate.						✓
(i) Educate the construction and landscape industries and property owners about the use of best management practices to prevent erosion and nonpoint source pollution.	✓					
(j) Support the acquisition of resources with scenic, environmental, and recreational value, and encumber their use.						✓
(k) Improve enforcement activities relating to the natural environment.						✓
(l) For each shoreline community, identify and prioritize beach-conservation objectives, and develop action plans for their implementation.						✓
Implementing Actions:						
(a) Document, record, and monitor existing conditions, populations, and locations of flora and fauna communities.	✓					
(b) Implement Federal and State policies that require a reduction of greenhouse-gas emissions.						✓
(c) Establish a baseline inventory of available natural resources and their respective carrying capacities.						✓
Analysis: The assessment of the proposed action included a biological resources survey addressing flora and fauna in the project area. This assessment addresses the objective of improving the stewardship of our natural environment by documenting the biological resources in the project area. Additionally, project specifications will include BMPs to address soil erosion during construction activities.						
Objective:						
(4) Educate residents and visitors about responsible stewardship practices and the interconnectedness of the natural environment and people.						✓
Policies:						
(a) Expand education about native flora, fauna, and ecosystems.						✓
(b) Align priorities to recognize that the health of the natural environment and the health of people are inextricably linked.						✓
(c) Promote programs and incentives that decrease greenhouse-gas emissions and improve environmental stewardship.						✓
Analysis: While the biological resource survey does not directly educate residents and visitors about responsible stewardship practices and the interconnectedness of the natural environment and people, it indirectly provides data that could enhance such educational efforts. The project's biological resources inventory provides an additional data source for education.						
B. PRESERVE LOCAL CULTURES AND TRADITIONS						
Goal: Maui County will foster a spirit of pono and protect, perpetuate, and reinvigorate its residents' multi-cultural values and traditions to ensure that current and future generations will enjoy the benefits of their rich island heritage.						
Objective:						
(1) Perpetuate the Hawaiian culture as a vital force in the lives of residents.						✓
Policies:						
(a) Protect and preserve access to mountain, ocean, and island resources for traditional Hawaiian cultural practices.						✓
(b) Prohibit inappropriate development of cultural lands and sites that are important for traditional Hawaiian cultural practices, and establish mandates for the special protection of these lands in perpetuity.						✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(c) Promote the use of ahupua'a and moku management practices.			✓
(d) Encourage the use of traditional Hawaiian architecture and craftsmanship.			✓
(e) Promote the use of the Hawaiian language.			✓
(f) Recognize and preserve the unique natural and cultural characteristics of each ahupua'a or district.			✓
(g) Encourage schools to promote broader incorporation of Hawaiian and other local cultures' history and values lessons into curriculum.			✓
(h) Ensure the protection of Native Hawaiian rights.		✓	
(i) Promote, encourage, and require the correct use of traditional place names, particularly in government documents, signage, and the tourism industry.			✓
Implementing Actions:			
(a) Establish alternative land use and overlay zoning designations that recognize and preserve the unique natural and cultural characteristics of each ahupua'a or district.			✓
(b) Develop requirements for all County applicants to perpetuate and use proper traditional place names in all applications submitted.			✓
Analysis: While the proposed action itself does not directly address Hawaiian cultural practices and rights, the AIS, which includes research compliant with guidelines for development of a CIA, does serve to acknowledge the valued cultural context associated with the project area. In particular, the AIS addresses the relationship between land resources and cultural practices.			
Objective:			
(2) Emphasize respect for our island lifestyle and our unique local cultures, family, and natural environment.			✓
Policies:			
(a) Acknowledge the Hawaiian culture as the host culture, and foster respect and humility among residents and visitors toward the Hawaiian people and their practices.			✓
(b) Perpetuate a respect for diversity, and recognize the historic blending of cultures and ethnicities.			✓
(c) Encourage the perpetuation of each culture's unique cuisine, attire, dance, music, and folklore, and other unique island traditions and recreational activities.			✓
(d) Recognize the interconnectedness between the natural environment and the cultural heritage of the islands.			✓
(e) Protect and prioritize funding for recreational activities that support local cultural practices, such as surfing, fishing, and outrigger-canoe paddling.			✓
Analysis: The proposed action does not directly or indirectly affect a community's relationship to island lifestyle local cultures and the natural environment.			
Objective:			
(3) Preserve for present and future generations the opportunity to know and experience the arts, culture, and history of Maui County.		✓	
Policies:			
(a) Foster teaching opportunities for cultural practitioners to share their knowledge and skills.			✓
(b) Support the development of cultural centers.			✓
(c) Broaden opportunities for public art and the display of local artwork.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(d) Foster the Aloha Spirit by celebrating the Hawaiian host culture and other Maui County cultures through support of cultural-education programs, festivals, celebrations, and ceremonies.			✓
(e) Support the perpetuation of Hawaiian arts and culture.			✓
(f) Support programs and activities that record the oral and pictorial history of residents.			✓
(g) Support the development of repositories for culture, history, genealogy, oral history, film, and interactive learning.		✓	
Implementing Actions:			
(a) Establish incentives for the display of public art.			✓
(b) Establish centers and programs of excellence for the perpetuation of Hawaiian arts and culture.			✓
Analysis: Although the proposed action does not directly address the perpetuation of the arts, culture and history, the AIS, which includes research compliant with guidelines for development of a CIA, does serve to document and acknowledge the valued cultural context associated with the project area. The AIS provides information and data sources relating to the culture and history of the project area. As well, the AIS's documentation provides insight to Native Hawaiian cultural practices.			
Objective:			
(4) Preserve and restore significant historic architecture, structures, cultural sites, cultural districts, and cultural landscapes.		✓	
Policies:			
(a) Support the development of island-wide historic, archaeological, and cultural resources inventories.		✓	
(b) Promote the rehabilitation and adaptive reuse of historic sites, buildings, and structures to perpetuate a traditional sense of place.			✓
(c) Identify a sustainable rate of use and set forth specific policies to protect cultural resources.			✓
(d) Protect and preserve lands that are culturally or historically significant.		✓	
(e) Support programs that protect, record, restore, maintain, provide education about, and interpret cultural districts, landscapes, sites, and artifacts in both natural and museum settings.		✓	
(f) Perpetuate the authentic character and historic integrity of rural communities and small towns.			✓
(g) Seek solutions that honor the traditions and practices of the host culture while recognizing the needs of the community.		✓	
(h) Support the development of an Archaeological District Ordinance.			✓
(i) Protect summits, slopes, and ridgelines from inappropriate development.			✓
(j) Support the registering of important historic sites on the State and Federal historic registers.			✓
(k) Provide opportunities for public involvement with restoration and enhancement of all types of cultural resources.			✓
(l) Foster partnerships to identify and preserve or revitalize historic and cultural sites.			✓
Implementing Actions:			
(a) Identify, develop, map, and maintain an inventory of locally significant natural, cultural, and historical resources for protection.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(b) Prepare, continually update, and implement a cultural-management plan for cultural sites, districts, and landscapes, where appropriate.			✓
(c) Enact an Archaeological District Ordinance.			✓
(d) Nominate important historic sites to the State and Federal historic registers.			✓
Analysis: The proposed action has indirect relationships to the objective to preserve and restore historic architecture, structures, cultural sites, cultural districts, and cultural landscapes. The AIS, which includes research compliant with guidelines for development of a CIA, provides additional resources inventory for the project area's archaeology, history and culture. The process for this document supports the protection and preservation of sites and artifacts that are culturally or historically significant, and honors the traditions and practices of the host culture.			
C. IMPROVE EDUCATION			
Goal: Residents will have access to lifelong formal and informal educational options enabling them to realize their ambitions.			✓
Objective:			
(1) Encourage the State to attract and retain school administrators and educators of the highest quality.			✓
Policies:			
(a) Encourage the State to provide teachers with nationally competitive pay and benefit packages.			✓
(b) Encourage the State to ensure teachers will have the teaching tools and support staff needed to provide students with an excellent education.			✓
(c) Explore Maui County district- and school-based decision making in public education.			✓
Analysis: The proposed action does not have direct or indirect relationships to the goal to provide access to educational options, including the objectives of attracting and retaining administrators and educators of the highest quality			
Objective:			
(2) Provide nurturing learning environments that build skills for the 21st century.			✓
Policies:			
(a) Expand professional-development opportunities in disciplines that support the economic-development goals of Maui County.			✓
(b) Plan for demographic, social, and technological changes in a timely manner.			✓
(c) Encourage collaborative partnerships to improve conditions of learning environments.			✓
(d) Promote development of neighborhood schools and educational centers.			✓
(e) Integrate schools, community parks, and playgrounds, and expand each community's use of these facilities.			✓
(f) Support coordination between land use and school-facility planning agencies.			✓
(g) Encourage the upgrade and ongoing maintenance of public-school facilities.			✓
(h) Encourage the State Department of Education to seek reliable, innovative, and alternative methods to support a level of per-pupil funding that places Hawai'i among the top tier of states nationally for its financial support of public schools.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(i) Encourage the State to promote healthier, more productive learning environments, including by providing healthy meals, more physical activity, natural lighting, and passive cooling.			✓
(j) Encourage the State to support the development of benchmarks to measure the success of Hawai'i's public-education system and clarify lines of accountability.			✓
(k) Design school and park facilities in proximity to residential areas.			✓
(l) Support technology- and natural-environment-based learning.			✓
(m) Encourage the State to support lower student-teacher ratios in public schools.			✓
(n) Encourage alternative learning and educational opportunities.			✓
Implementing Actions:			
(a) Develop safe walking and bicycling programs for school children.			✓
Analysis: The proposed action does not have direct or indirect relationships to the goal to provide access to educational options, including the objective of providing nurturing learning environments that build skills for the 21 st Century.			
Objective:			
(3) Provide all residents with educational opportunities that can help them better understand themselves and their surroundings and allow them to realize their ambitions.			✓
Policies:			
(a) Encourage the State to improve Maui Community College as a comprehensive community college that will serve each community.			✓
(b) Broaden the use of technology and telecommunications to improve educational opportunities throughout the County.			✓
(c) Attract graduate-level research programs and institutions.			✓
(d) Promote the teaching of traditional practices, including aquaculture; subsistence agriculture; Pacific Island, Asian, and other forms of alternative health practices; and indigenous Hawaiian architecture.			✓
(e) Integrate cultural and environmental values in education, including self-sufficiency and sustainability.			✓
(f) Foster a partnership and ongoing dialogue between business organizations, formal educational institutions, and vocational training centers to tailor learning and mentoring programs to County needs.			✓
(g) Ensure teaching of the arts to all ages.			✓
(h) Expand and develop vocational learning opportunities by establishing trade schools.			✓
(i) Encourage the State to integrate financial and economic literacy in elementary, secondary, and higher-education levels.			✓
Implementing Actions:			
(a) Encourage the State to establish a four-year university, and support the development of other higher-education institutions to enable residents to obtain bachelor degrees and postgraduate degrees in Maui County.			✓
Analysis: The proposed action does not have direct or indirect relationships to the objective of providing educational opportunities for residents. For example, policies relating to the teaching of the arts, vocational learning opportunities and graduate-level research programs and institutions are not advanced by the proposed action.			

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
Objective:			
(4) Maximize community-based educational opportunities.			✓
Policies:			
(a) Encourage the State and others to expand pre-school, after-school, and homebased (parent-child) learning.			✓
(b) Support public-private partnerships to develop youth-internship, -apprenticeship, and -mentoring programs.			✓
(c) Support the development of a wide range of informal educational and cultural programs for all residents.			✓
(d) Improve partnerships that utilize the skills and talents at Hawai'i's colleges and universities to benefit the County.			✓
(e) Support career-development and job-recruitment programs and centers.			✓
(f) Attract learning institutions and specialty schools to diversify and enhance educational opportunities.			✓
(g) Expand education of important life skills for the general public.			✓
(h) Support community facilities such as museums, libraries, nature centers, and open spaces that provide interactive-learning opportunities for all ages.			✓
Analysis: The proposed action does not have direct or indirect relationships to the objective of maximizing community-based educational opportunities. (i.e., support for community facilities such as museums, libraries, and nature centers)			
D. STRENGTHEN SOCIAL AND HEALTHCARE SERVICES			
Goal: Health and social services in Maui County will fully and comprehensively serve all segments of the population.			✓
Objective:			
(1) In cooperation with the Federal and State governments and nonprofit agencies, broaden access to social and healthcare services and expand options to improve the overall wellness of the people of Maui County.			✓
Policies:			
(a) Work with other levels of government and the nonprofit sector to expand services to address hunger, homelessness, and poverty.			✓
(b) Support the improvement of opportunities for disadvantaged youth, encourage the tradition of hanai relatives, and support expanded opportunities for foster care.			✓
(c) Support expanded long-term-care options, both in institutions and at home, for patients requiring ongoing assistance and medical attention.			✓
(d) Encourage the expansion and improvement of local hospitals, facilitate the establishment of new healthcare facilities, and facilitate prompt and high-quality emergency- and urgent-care services for all.			✓
(e) Support broadened access to affordable health insurance and health care, and recognize the unique economic challenges posed to families when healthcare services are provided off-island.			✓
(f) Encourage equal access to social and healthcare services through both technological and traditional means.			✓
Analysis: The proposed action is not applicable to the goal to provide comprehensive health services to all segments of the population, including the objective of broadening access to social and healthcare services and expanding options to improving overall wellness.			
Objective:			

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(2) Encourage the Federal and State governments and the private sector to improve the quality and delivery of social and healthcare services.			✓
Policies:			
(a) Strengthen partnerships with government, nonprofit, and private organizations to provide funding and to improve counseling and other assistance to address substance abuse, domestic violence, and other pressing social challenges.			✓
(b) Encourage the State to improve the quality of medical personnel, facilities, services, and equipment.			✓
(c) Encourage investment to improve the recruitment of medical professionals and the quality of medical facilities and equipment throughout Maui County.			✓
(d) Promote the development of continuum-of-care facilities that provide assisted living, hospice, home-care, and skilled-nursing options allowing the individual to be cared for in a manner congruent with his or her needs and desires.			✓
(e) Support improved social, healthcare, and governmental services for special needs populations.			✓
(f) Plan for the needs of an aging population and the resulting impacts on social services, housing, and healthcare delivery.			✓
(g) Improve coordination among the police, the courts, and the public in the administration of social and healthcare services.			✓
(h) Support programs that address needs of veterans.			✓
(i) Support programs that address the needs of immigrants.			✓
Implementing Actions:			
(a) Invest in programs designed to improve the general welfare and quality of life of Native Hawaiians.			✓
(b) Assist and facilitate the State Department of Public Safety and others in efforts to strengthen programs and facilities that will improve the mental and social health of incarcerated people and assist in prison inmates' successful transition back into Maui County communities.			✓
(c) Develop and maintain a comprehensive index that will measure the health and wellness needs of families.			✓
(d) Provide heliports countywide for emergency health and safety purposes.			✓
Analysis: The goal for strengthening social and health care services and its objective of encouraging Federal and State governments and the private sector to improve the quality and delivery of social and health care services are not advanced by the proposed action.			
Objective:			
(3) Strengthen public-awareness programs related to healthy lifestyles and social and medical services.			✓
Policies:			
(a) Expand public awareness about personal safety and crime prevention.			✓
(b) Encourage residents to pursue education and training for careers in the healthcare, social services, and community-development fields.			✓
(c) Expand public awareness and promote programs to achieve healthy eating habits and drug-free lifestyles.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
Analysis: The objective of strengthening public awareness programs related to healthy lifestyles and social and medical services has no direct or indirect relationship to the proposed action.						
E. EXPAND HOUSING OPPORTUNITIES FOR RESIDENTS						
Goal: Quality, island-appropriate housing will be available to all residents.						
Objective:						
(1) Reduce the affordable housing deficit for residents.						
Policies:						
(a) Ensure that an adequate and permanent supply of affordable housing, both new and existing units, is made available for purchase or rental to our resident and/or workforce population, with special emphasis on providing housing for low- to moderate-income families, and ensure that all affordable housing remains affordable in perpetuity.						✓
(b) Seek innovative ways to lower housing costs without compromising the quality of our island lifestyle.						✓
(c) Seek innovative methods to secure land for the development of low- and moderate- income housing.						✓
(d) Provide the homeless population with emergency and transitional shelter and other supportive programs.						✓
(e) Provide for a range of senior-citizen and special needs housing choices on each island that affordably facilitates a continuum of care and services.						✓
(f) Support the Department of Hawaiian Home Lands' development of homestead lands.						✓
(g) Manage property-tax burdens to protect affordable resident homeownership.						✓
(h) Explore taxation mechanisms to increase and maintain access to affordable housing.						✓
(i) Improve awareness regarding available affordable homeowner's insurance.						✓
(j) Redevelop commercial areas with a mixture of affordable residential and business uses, where appropriate.						✓
(k) Ensure residents are given priority to obtain affordable housing units developed in their communities, consistent with all applicable regulations.						✓
(l) Establish pricing for affordable housing that is more reflective of Maui County's workforce than the United States Housing and Urban Development's median-income estimates for Maui County.						✓
(m) Develop neighborhoods with a mixture of accessible and integrated community facilities and services.						✓
(n) Provide alternative regulatory frameworks to facilitate the use of Kuleana lands by the descendants of Native Hawaiians who received those lands pursuant to the Kuleana Act of 1850.						✓
(o) Work with lending institutions to expand housing options and safeguard the financial security of homeowners.						✓
(p) Promote the use of the community land trust model and other land-lease and land-financing options.						✓
(q) Support the opportunity to age in place by providing accessible and appropriately designed residential units.						✓
Analysis: The proposed action does not have direct or indirect relationships to the objective of reducing the affordable housing deficit for residents.						

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
Objective:						
(2) Increase the mix of housing types in towns and neighborhoods to promote sustainable land use planning, expand consumer choice, and protect the County's rural and small town character.						
Policies:						
(a) Seek innovative ways to develop 'ohana cottages and accessory-dwelling units as affordable housing.						✓
(b) Design neighborhoods to foster interaction among neighbors.						✓
(c) Encourage a mix of social, economic, and age groups within neighborhoods.						✓
(d) Promote infill housing in urban areas at scales that capitalize on existing infrastructure, lower development costs, and are consistent with existing or desired patterns of development.						✓
(e) Encourage the building industry to use environmentally sustainable materials, technologies, and site planning.						✓
(f) Develop workforce housing in proximity to job centers and transit facilities.						✓
(g) Provide incentives to developers and owners who incorporate green building practices and energy-efficient technologies into their housing developments.						✓
Implementing Actions:						
(a) Revise laws to support neighborhood designs that incorporate a mix of housing types that are appropriate for island living.						
Analysis: The proposed action does not have direct or indirect relationships to the objective to increase a mix of housing types in appropriate areas of the island. As an example, the proposed action does not affect taxation mechanisms to increase affordable housing, nor does it promote innovative methods for lowering the cost of housing.						
Objective:						
(3) Increase and maintain the affordable housing inventory.						
Policies:						
(a) Recognize housing as a basic human need, and work to fulfill that need.						✓
(b) Prioritize available infrastructure capacity for affordable housing.						✓
(c) Improve communication, collaboration, and coordination among housing providers and social-service organizations.						✓
(d) Study future projected housing needs, monitor economic cycles, and prepare for future conditions on each island.						✓
(e) Develop public-private and nonprofit partnerships that facilitate the construction of quality affordable housing.						✓
(f) Streamline the review process for high-quality, affordable housing developments that implement the goals, objectives, and policies of the General Plan.						✓
(g) Minimize the intrusion of housing on prime, productive, and potentially productive agricultural lands and regionally valuable agricultural lands.						✓
(h) Encourage long-term residential use of existing and future housing to meet residential needs.						✓
Implementing Actions:						
(a) Develop policies to even out the peaks and valleys in Maui County's construction-demand cycles.						

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
Analysis: The proposed action does not have a direct or indirect relationship to increasing and maintaining the affordable housing inventory.						
Objective:						
(4) Expand access to education related to housing options, homeownership, financing, and residential construction.						✓
Policies:						
(a) Broaden access to information about County, State, and Federal programs that provide financial assistance to renters and home buyers.						✓
(b) Expand access to information about opportunities for homeownership and self-help housing.						✓
(c) Educate residents about making housing choices that support their individual needs, the needs of their communities, and the health of the islands' natural systems.						✓
(d) Improve home buyers' education on all aspects of homeownership.						✓
Analysis: The objective of expanding access to education related to housing options, homeownership, financing, and residential construction is not applicable to the proposed action.						
F. STRENGTHEN THE LOCAL ECONOMY						
Goal: Maui County's economy will be diverse, sustainable, and supportive of community values.						
	✓					
Objective:						
(1) Promote an economic climate that will encourage diversification of the County's economic base and a sustainable rate of economic growth.	✓					
Policies:						
(a) Support economic decisions that create long-term benefits.	✓					
(b) Promote lifelong education, career development, and technical training for existing and emerging industries.						✓
(c) Invest in infrastructure, facilities, and programs that foster economic diversification.	✓					
(d) Support and promote locally produced products and locally owned operations and businesses that benefit local communities and meet local demand.	✓					
(e) Support programs that assist industries to retain and attract more local labor and facilitate the creation of jobs that offer a living wage.		✓				
(f) Encourage work environments that are safe, rewarding, and fulfilling to employees.						✓
(g) Support home-based businesses that are appropriate for and in character with the community.						✓
(h) Encourage businesses that promote the health and well-being of the residents, produce value-added products, and support community values.						✓
(i) Foster an understanding of the role of all industries in our economy.						✓
(j) Support efforts to improve conditions that foster economic vitality in our historic small towns.						✓
(k) Support and encourage traditional host-culture businesses and indigenous agricultural practices.						✓
(l) Support public and private entities that assist entrepreneurs in establishing locally operated businesses.						✓
Implementing Actions:						

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
(a) Develop regulations and programs that support opportunities for local merchants, farmers, and small businesses to sell their goods and services directly to the public.						✓
(b) Monitor the carrying capacity of the islands' social, ecological, and infrastructure systems with respect to the economy.						✓
Analysis: The proposed action promotes the goal for economic diversification, sustainability and community values. The proposed action is an investment in the local economy, which will support local businesses that are linked to the construction industry. Such businesses may include materials suppliers, equipment rental companies and specialty construction companies. From a long-term perspective, the proposed action supports economic diversification and the overall business environment by providing opportunities for new enterprises to establish places of operations for their respective ventures.						
Objective:						
(2) Diversify and expand sustainable forms of agriculture and aquaculture.						✓
Policies:						
(a) Support programs that position Maui County's agricultural products as premium export products.						✓
(b) Prioritize the use of agricultural land to feed the local population, and promote the use of agricultural lands for sustainable and diversified agricultural activities.						✓
(c) Capitalize on Hawai'i's economic opportunities in the ecologically sensitive aquaculture industries.						✓
(d) Assist farmers to help make Maui County more self-sufficient in food production.						✓
(e) Support ordinances, programs, and policies that keep agricultural land and water available and affordable to farmers.						✓
(f) Support a tax structure that is conducive to the growth of the agricultural economy.						✓
(g) Enhance County efforts to monitor and regulate important agricultural issues.						✓
(h) Support education, research, and facilities that strengthen the agricultural industry.						✓
(i) Maintain the genetic integrity of existing food crops.						✓
(j) Encourage healthy and organic farm practices that contribute to land health and regeneration.						✓
(k) Support cooperatives and other types of nontraditional communal farming and efforts.						✓
(l) Encourage methods of monitoring and controlling genetically modified crops to prevent adverse effects.						✓
(m) Work with the State to ease the permitting process for the revitalization of traditional fish ponds.						✓
Implementing Actions:						
(a) Redirect efforts in the Office of Economic Development to further facilitate the development of the agricultural section and to monitor agricultural legislation and issues.						✓
(b) Publicly identify, with signage and other means, the field locations of all genetically modified crops.						✓
(c) Create agricultural parks in areas distant from genetically modified crops.						✓
Analysis: The proposed action does not have direct or indirect relationships to the objective to expand sustainable agriculture and aquaculture. By example, the						

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
proposed project does not affect management of genetically modified crops or support self-sufficiency in food production.						
Objective:						
(3) Support a visitor industry that respects the resident culture and the environment.						✓
Policies:						
(a) Promote traditional Hawaiian practices in visitor-related facilities and activities.						✓
(b) Encourage and educate the visitor industry to be sensitive to island lifestyles and cultural values.						✓
(c) Encourage a spirit of welcome for residents at visitor facilities, such as by offering kama'aina incentives and discount programs.						✓
(d) Support the renovation and enhancement of existing visitor facilities.						✓
(e) Support policies, programs, and a tax structure that redirect the benefits of the visitor industry back into the local community.						✓
(f) Encourage resident ownership of visitor-related businesses and facilities.						✓
(g) Develop partnerships to provide educational and training facilities to residents employed in the visitor industry.						✓
(h) Foster an understanding of local cultures, customs, and etiquette, and emphasize the importance of the Aloha Spirit as a common good for all.						✓
(i) Support the diversification, development, evolution, and integration of the visitor industry in a way that is compatible with the traditional, social, economic, spiritual, and environmental values of island residents						✓
(j) Improve collaboration between the visitor industry and the other sectors of Maui County's economy.						✓
(k) Perpetuate an authentic image of the Hawaiian culture and history and an appropriate recognition of the host culture.						✓
(l) Support the programs and initiatives outlined in the Maui County Tourism Strategic Plan 2006-2015.						✓
(m) Promote water conservation, beach conservation, and open-space conservation in areas providing services for visitors.						✓
(n) Recognize the important contributions that the visitor industry makes to the County's economy, and support a healthy and vibrant visitor industry.						✓
Analysis: The objective of supporting the visitor industry is not applicable to the proposed action. By example, the proposed action does not affect beach and open space conservation for visitors, nor does it promote initiatives outlined in the Maui County Tourism Strategic Plan.						
Objective:						
(4) Expand economic sectors that increase living-wage job choices and are compatible with community values.	✓					
Policies:						
(a) Support emerging industries, including the following: • Health and wellness industry; • Sports and recreation industry; • Film and entertainment industry; • Arts and culture industry; • Renewable-energy industry;	• Research and development industry; • High-technology and knowledge-based industries; • Education and training industry; • Ecotourism industry; and • Agritourism industry.	✓				

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
Analysis: The proposed action does have a direct relationship to the objective to expand economic sectors that increase living-wage job choices compatible with community values. The proposed action is envisioned to incorporate renewable energy, developments, and operating spaces involved in other emerging industries.						
G. IMPROVE PARKS AND PUBLIC FACILITIES						
Goal: A full range of island-appropriate public facilities and recreational opportunities will be provided to improve the quality of life for residents and visitors.						
Objective:						
(1) Expand access to recreational opportunities and community facilities to meet the present and future needs of residents of all ages and physical abilities.						✓
Policies:						
(a) Protect, enhance, and expand access to public shoreline and mountain resources.						✓
(b) Expand and enhance the network of parks, multi-use paths, and bikeways.						✓
(c) Assist communities in developing recreational facilities that promote physical fitness.						✓
(d) Expand venue options for recreation and performances that enrich the lifestyles of Maui County's people.						✓
(e) Expand affordable recreational and after-school programs for youth.						✓
(f) Encourage and invest in recreational, social, and leisure activities that bring people together and build community pride.						✓
(g) Promote the development and enhancement of community centers, civic spaces, and gathering places throughout our communities.						✓
(h) Expand affordable access to recreational opportunities that support the local lifestyle.						✓
Implementing Actions:						
(a) Identify and reserve lands for cemeteries, and preserve existing cemeteries on all islands, appropriately accommodating varying cultural and, faith-based traditions.						✓
Analysis: The proposed action does not expand access to recreational opportunities and community facilities. As a proposed industrial land use, the project does not directly or indirectly affect recreational facilities nor does it affect programs intended to enhance community gathering places.						
Objective:						
(2) Improve the quality and adequacy of community facilities.						✓
Policies:						
(a) Provide an adequate supply of dedicated shelters and facilities for disaster relief.						✓
(b) Provide and maintain community facilities that are appropriately designed to reflect the traditions and customs of local cultures.						✓
(c) Ensure that parks and public facilities are safe and adequately equipped for the needs of all ages and physical abilities to the extent reasonable.						✓
(d) Maintain, enhance, expand, and provide new active and passive recreational facilities in ways that preserve the natural beauty of their locations.						✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(e) Redesign or retrofit public facilities to adapt to major shifts in environmental or urban conditions to the extent reasonable.			✓
Analysis: The proposed project does not have direct or indirect relationships to the objective to improve community facilities. The project does not affect the provision of shelters for disaster, relief, and does not address parks and facility requirements for the spectrum of ages and physical abilities.			
Objective:			
(3) Enhance the funding, management, and planning of public facilities and park lands.			✓
Policies:			
(a) Identify and encourage the establishment of regulated and environmentally sound campgrounds.			✓
(b) Manage park use and control access to natural resources in order to rest sensitive places and utilize the resources in a sustainable manner.			✓
(c) Provide public-recreational facilities that are clean and well-maintained.			✓
(d) Develop partnerships to ensure proper stewardship of the islands' trails, public lands, and access systems.			✓
(e) Ensure that there is an adequate supply of public restrooms in convenient locations.			✓
Implementing Actions:			
(a) Encourage the State to allow for overnight fishing along the shoreline in accordance with management plans and regulations.			✓
(b) Develop and regularly update functional plans, including those relating to public facilities, parks, and campgrounds.			✓
(c) Develop and adopt local level-of service standards for public facilities and parks.			✓
(d) Identify, acquire, and develop lands for parks, civic spaces, and public uses.			✓
Analysis: The objective of enhancing funding, management and planning for public facilities and parks is not applicable to the proposed project.			
H. DIVERSIFY TRANSPORTATION OPTIONS			
Goal: Maui County will have an efficient, economical, and environmentally sensitive means of moving people and goods.		✓	
Objective:			
(1) Provide an effective, affordable, and convenient ground-transportation system that is environmentally sustainable.		✓	
Policies:			
(a) Execute planning strategies to reduce traffic congestion.		✓	
(b) Plan for the efficient relocation of roadways for the public benefit.			✓
(c) Support the use of alternative roadway designs, such as traffic-calming techniques and modern roundabouts.			✓
(d) Increase route and mode options in the ground-transportation network.			✓
(e) Ensure that roadway systems are safe, efficient, and maintained in good condition.		✓	
(f) Preserve roadway corridors that have historic, scenic, or unique physical attributes that enhance the character and scenic resources of communities.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(g) Design new roads and roadway improvements to retain and enhance the existing character and scenic resources of the communities through which they pass.			✓
(h) Promote a variety of affordable and convenient transportation services that meet countywide and community needs and expand ridership of transit systems.			✓
(i) Collaborate with transit agencies, government agencies, employers, and operators to provide planning strategies that reduce peak-hour traffic.			✓
(j) Develop and expand an attractive, island-appropriate, and efficient public transportation system.			✓
(k) Provide and encourage the development of specialized transportation options for the young, the elderly, and persons with disabilities.			✓
(l) Evaluate all alternatives to preserve quality of life before widening roads.			✓
(m) Encourage businesses in the promotion of alternative transportation options for resident and visitor use.			✓
(n) Support the development of carbon-emission standards and an incentive program aimed at achieving County carbon-emission goals.			✓
Implementing Actions:			
(a) Create incentives and implement strategies to reduce visitor dependence on rental cars.			✓
(b) Establish efficient public-transit routes between employment centers and primary workforce residential areas.			✓
(c) Create attractive, island-appropriate, conveniently located park-and-ride and ride-share facilities.			✓
Analysis: A traffic impact study has been prepared for the proposed action. The traffic study identifies impact mitigation measures which will alleviate traffic operational issues which may be created by the project. As well, roadway improvements proposed for the project will be designed and constructed to meet current design standards to ensure the safe and efficient movement of vehicles to and from and within the project area.			
Objective:			
(2) Reduce the reliance on the automobile and fossil fuels by encouraging walking, bicycling, and other energy-efficient and safe alternative modes of transportation.			✓
Policies:			
(a) Make walking and bicycling transportation safe and easy between and within communities.			✓
(b) Require development to be designed with the pedestrian in mind.			✓
(c) Design new and retrofit existing rights-of-way with adequate sidewalks, bicycle lanes, or separated multi-use transit corridors.			✓
(d) Support the development of a countywide network of bikeways, equestrian trails, and pedestrian paths.			✓
(e) Support the reestablishment of traditional trails between communities, to the ocean, and through the mountains for public use.			✓
(f) Encourage educational programs to increase safety for pedestrians and bicyclists.			✓
Implementing Actions:			
(a) Design, build, and modify existing bikeways to improve safety and separation from automobiles.			✓
(b) Increase enforcement to reduce abuse of bicycle and pedestrian lanes by motorized vehicles.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(c) Identify non-motorized transportation options as a priority for new sources of funding.			✓
Analysis: The proposed action does not have direct or indirect applicability to the objective and policies for reducing reliance on automobiles and fossil fuels.			
Objective:			
(3) Improve opportunities for affordable, efficient, safe, and reliable air transportation.			✓
Policies:			
(a) Discourage private helicopter and fixed-wing landing sites to mitigate environmental and social impacts.			✓
(b) Encourage the use of quieter aircraft and noise-abatement procedures for arrivals and departures.			✓
(c) Encourage the modernization and maintenance of air-transportation facilities for general-aviation activities.			✓
(d) Encourage a viable and competitive atmosphere for air carriers to expand service and ensure sufficient intra-County flights and affordable fares for consumers.			✓
(e) Continue to support secondary airports, and encourage the State to provide them with adequate funding.			✓
(f) During Community Plan updates, explore the use of the smaller airports.			✓
(g) Encourage the State to provide efficient, adequate, and affordable parking and transit connections within and around airports.			✓
Analysis: The proposed action does not have direct or indirect relationships to the objective of improving the affordability, efficiency, safety, and reliability of air transportation.			
Objective:			
(4) Improve opportunities for affordable, efficient, safe, and reliable ocean transportation.			✓
Policies:			
(a) Support programs and regulations that reduce the disposal of maritime waste and prevent spills into the ocean.			✓
(b) Encourage the upgrading of harbors to resist damage from natural hazards and disasters.			✓
(c) Encourage the State to study the use of existing harbors and set priorities for future use.			✓
(d) Explore all options to protect the traditional recreational uses of harbors, and mitigate harbor-upgrade impacts to recreational uses where feasible.			✓
(e) Encourage the upgrading of harbors and the separation of cargo and bulk materials from passenger and recreational uses.			✓
(f) Encourage the State to provide for improved capacity at shipping, docking, and storage facilities.			✓
(g) Encourage the State to provide adequate parking facilities and transit connections within and around harbor areas.			✓
(h) Encourage the redevelopment and revitalization of harbors while preserving historic and cultural assets in harbor districts.			✓
(i) Encourage the State to provide adequate facilities for small-boat operations, including small-boat launch ramps, according to community needs.			✓
(j) Support the maintenance and cleanliness of harbor facilities.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(k) Support the redevelopment of harbors as pedestrian-oriented gathering places.			✓
Analysis: The objective of improving opportunities for affordable, efficient, safe, and reliable ocean transportation is not affected by the proposed action.			
Objective:			
(5) Improve and expand the planning and management of transportation systems.			✓
Policies:			
(a) Encourage progressive community design and development that will reduce transportation trips.			✓
(b) Require new developments to contribute their pro rata share of local and regional infrastructure costs.			✓
(c) Establish appropriate user fees for private enterprises that utilize public transportation facilities for recreational purposes.			✓
(d) Support the revision of roadway-design criteria and standards so that roads are compatible with surrounding neighborhoods and the character of rural areas.			✓
(e) Plan for multi-modal transportation and utility corridors on each island.			✓
(f) Support designing all transportation facilities, including airport, harbor, and mass-transit stations, to reflect Hawaiian architecture.			✓
(g) Utilize transportation-demand management as an integral part of transportation planning.			✓
(h) Accommodate the planting of street trees and other appropriate landscaping in all public rights-of-way.			✓
Analysis: The objective of improving and expanding the planning and management of transportation systems is not affected by the proposed action.			
I. IMPROVE PHYSICAL INFRASTRUCTURE			
Goal: Maui County's physical infrastructure will be maintained in optimum condition and will provide for and effectively serve the needs of the County through clean and sustainable technologies.		✓	
Objective:			
(1) Improve water systems to assure access to sustainable, clean, reliable, and affordable sources of water.		✓	
Policies:			
(a) Ensure that adequate supplies of water are available prior to approval of subdivision or construction documents.		✓	
(b) Develop and fund improved water-delivery systems.		✓	
(c) Ensure a reliable and affordable supply of water for productive agricultural uses.			✓
(d) Promote the reclamation of gray water, and enable the use of reclaimed, gray, and brackish water for activities that do not require potable water.			✓
(e) Retain and expand public control and ownership of water resources and delivery systems.			✓
(f) Improve the management of water systems so that surface-water and groundwater resources are not degraded by overuse or pollution.			✓
(g) Explore and promote alternative water-source-development methods.			✓
(h) Seek reliable long-term sources of water to serve developments that achieve consistency with the appropriate Community Plans.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)			
	DA	IA	NA
Implementing Actions:			
(a) Develop a process to review all applications for desalination.			✓
Analysis: While the proposed action does not directly promote access to sustainable, clean, reliable, and affordable water sources, the project will go through applicable design reviews for the subdivision and construction documents phases of implementation, which indirectly addresses water system improvement needs. The applicant will be responsible for paying for water system improvements servicing the project area.			
Objective:			
(2) Improve waste-disposal practices and systems to be efficient, safe, and as environmentally sound as possible.			✓
Policies:			
(a) Provide sustainable waste-disposal systems and comprehensive, convenient recycling programs to reduce the flow of waste into landfills.			✓
(b) Support innovative and alternative practices in recycling solid waste and wastewater and disposing of hazardous waste.			✓
(c) Encourage vendors and owners of automobile, appliance, and white goods to participate in the safe disposal and recycling of such goods, and ensure greater accountability for large waste producers.			✓
(d) Develop strategies to promote public awareness to reduce pollution and litter, and encourage residents to reduce, reuse, recycle, and compost waste materials.			✓
(e) Pursue improvements and upgrades to existing wastewater and solid-waste systems consistent with current and future plans and the County's Capital Improvement Program.			✓
Implementing Actions:			
(a) Establish recycling, trash-separation, and materials recovery programs and facilities to reduce the flow of waste into landfills.			✓
(b) Study the feasibility of developing environmentally safe waste-to-energy facilities.			✓
(c) Utilize taxes and fees as means to encourage conservation and recycling.			✓
(d) Implement and regularly update the Integrated Solid Waste Management Plan.			✓
(e) Phase out the use of injection wells.			✓
Analysis: The proposed action is not directly or indirectly related to the improvement of waste disposal practices and systems to be safe, efficient, and environmentally sound. Notwithstanding, the project will provide wastewater and solid waste collection services which advance sound principles of engineering and public health.			
Objective:			
(3) Significantly increase the use of renewable and green technologies to promote energy efficiency and energy self-sufficiency.	✓		
Policies:			
(a) Promote the use of locally renewable energy sources, and reward energy efficiency.	✓		
(b) Consider tax incentives and credits for the development of sustainable-and renewable-energy sources.			✓
(c) Expand education about energy conservation and self-sufficiency.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)			
	DA	IA	NA
(d) Encourage small-scale energy generation that utilizes wind, sun, water, biowaste, and other renewable sources of energy.	✓		
(e) Expand renewable-energy production.	✓		
(f) Develop public-private partnerships to ensure the use of renewable energy and increase energy efficiency.			✓
(g) Require the incorporation of locally appropriate energy-saving and green building design concepts in all new developments by providing energy efficient urban design guidelines and amendments to the Building Code.			✓
(h) Encourage the use of sustainable energy to power vehicles.			✓
(i) Promote the retrofitting of existing buildings and new development to incorporate energy-saving design concepts and devices.			✓
(j) Encourage green footprint practices.			✓
(k) Reduce Maui County's dependence on fossil fuels and energy imports.			✓
(l) Support green building practices such as the construction of buildings that aim to minimize carbon dioxide production, produce renewable energy, and recycle water.			✓
(m) Promote and support environmentally friendly practices in all energy sectors.			✓
Implementing Actions:			
(a) Adopt an energy-efficiency policy for Maui County government as a model for other jurisdictions.			✓
(b) Adopt a Green Building Code, and support green building practices.			✓
Analysis: A land use plan envisioned for the project area includes 127 acres for renewable energy, which advances the objective of energy self-sufficiency.			
Objective:			
(4) Direct growth in a way that makes efficient use of existing infrastructure and to areas where there is available infrastructure capacity.		✓	
Policies:			
(a) Capitalize on existing infrastructure capacity as a priority over infrastructure expansion.			✓
(b) Planning for new towns should only be considered if a region's growth is too large to be directed into infill and adjacent growth areas.			✓
(c) Utilize appropriate infrastructure technologies in the appropriate locations.			✓
(d) Promote land use patterns that can be provided with infrastructure and public facilities in a cost-effective manner.		✓	
(e) Support catchment systems and on-site wastewater treatment in rural areas and aggregated water and wastewater systems in urban areas if they are appropriately located.			✓
Implementing Actions:			
(a) Develop a streamlining system for urban infill projects.			✓
(b) Identify appropriate areas for urban expansion of existing towns where infrastructure and public facilities can be provided in a cost-effective manner.			✓
Analysis: The project is located adjacent to existing industrial developments which allows for efficient design of infrastructure systems.			
Objective:			
(5) Improve the planning and management of infrastructure systems.		✓	
Policies:			

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(a) Provide a reliable and sufficient level of funding to enhance and maintain infrastructure systems.			✓
(b) Require new developments to contribute their pro rata share of local and regional infrastructure costs.		✓	
(c) Improve coordination among infrastructure providers and planning agencies to minimize construction impacts.		✓	
(d) Maintain inventories of infrastructure capacity, and project future infrastructure needs.			✓
(e) Require social-justice and -equity issues to be considered during the infrastructure-planning process.			✓
(f) Discourage the development of critical infrastructure systems within hazard zones and the tsunami-inundation zone to the extent practical.			✓
(g) Ensure that infrastructure is built concurrent with or prior to development.		✓	
(h) Ensure that basic infrastructure needs can be met during a disaster.			✓
(i) Locate public facilities and emergency services in appropriate locations that support the health, safety, and welfare of each community and that minimize delivery inefficiencies.			✓
(j) Promote the undergrounding of utility and other distribution lines for health safety, and aesthetic reasons.			✓
Implementing Actions:			
(a) Develop and regularly update functional plans for infrastructure systems.			✓
(b) Develop, adopt, and regularly update local or community-sensitive level-of service standards for infrastructure systems.			✓
Analysis: The proposed action does not directly support the objective to improve planning and management of infrastructure systems. However, an indirect relationship to this objective exists as the applicant will coordinate with agencies to ensure that appropriate infrastructure design criteria is used.			
J. PROMOTE SUSTAINABLE LAND USE AND GROWTH MANAGEMENT			
Goal: Community character, lifestyles, economies, and natural assets will be preserved by managing growth and using land in a sustainable manner.	✓		
Objective:			
(1) Improve land use management and implement a directed-growth strategy.	✓		
Policies:			
(a) Establish, map, and enforce urban- and rural-growth limits.			✓
(b) Direct urban and rural growth to designated areas.	✓		
(c) Limit the number of visitor-accommodation units and facilities in Community Plan Areas.			✓
(d) Maintain a sustainable balance between the resident, part-time resident, and visitor populations.			✓
(e) Encourage redevelopment and infill in existing communities on lands intended for urban use to protect productive farm land and open-space resources.			✓
(f) Discourage new entitlements for residential, resort, or commercial development along the shoreline.			✓
(g) Restrict development in areas that are prone to natural hazards, disasters, or sea-level rise.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(h) Direct new development in and around communities with existing infrastructure and service capacity, and protect natural, scenic, shoreline, and cultural resources.	✓		
(i) Establish and maintain permanent open space between communities to protect each community's identity.			✓
(j) Support the dedication of land for public uses.			✓
(k) Preserve the public's rights of access to and continuous lateral access along all shorelines.			✓
(l) Enable existing and future communities to be self-sufficient through sustainable land use planning and management practices.			✓
(m) Protect summits, slopes, and ridgelines from inappropriate development.			✓
Implementing Actions:			
(a) Regularly update urban- and rural-growth boundaries and their maps.			✓
(b) Establish transfer and purchase of development rights programs.			✓
(c) Develop and adopt a green infrastructure plan.			✓
(d) Develop studies to help determine a sustainable social, environmental, and economic carrying capacity for each island.			✓
(e) Identify and define resort-destination areas.			✓
Analysis: The proposed project directly supports the goal for managed growth, as the action is proposed within an area designated for industrial uses by the Lana'i Community Plan. In this connection, the proposed action has a relationship to the policy of directing development in and around communities having infrastructure service potential.			
Objective:			
(2) Improve planning for and management of agricultural lands and rural areas.			✓
Policies:			
(a) Protect prime, productive, and potentially productive agricultural lands to maintain the islands' agricultural and rural identities and economies.			✓
(b) Provide opportunities and incentives for self-sufficient and subsistence homesteads and farms.			✓
(c) Discourage developing or subdividing agriculturally designated lands when non- agricultural activities would be primary uses.			✓
(d) Conduct agricultural-development planning to facilitate robust and sustainable agricultural activities.			✓
Implementing Actions:			
(a) Inventory and protect prime, productive, and potentially productive agricultural lands from competing non-agricultural land uses.			✓
Analysis: The proposed action does not directly or indirectly support the objective to plan and manage agricultural and rural lands. For example, the project does support or advance the protection of productive agricultural lands or provide opportunities and incentives for subsistence homesteads and farms.			
Objective:			
(3) Design all developments to be in harmony with the environment and to protect each community's sense of place.	✓		
Policies:			
(a) Support and provide incentives for green building practices.			✓
(b) Encourage the incorporation of green building practices and technologies into all government facilities to the extent practicable.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(c) Protect and enhance the unique architectural and landscape characteristics of each Community Plan Area, small town, and neighborhood.			✓
(d) Ensure that adequate recreational areas, open spaces, and public-gathering places are provided and maintained in all urban centers and neighborhoods.			✓
(e) Ensure business districts are distinctive, attractive, and pedestrian-friendly destinations.			✓
(f) Use trees and other forms of landscaping along rights-of-way and within parking lots to provide shade, beauty, urban-heat reduction, and separation of pedestrians from automobile traffic in accordance with community desires.			✓
(g) Where appropriate, integrate public-transit, equestrian, pedestrian, and bicycle facilities, and public rights-of-way as design elements in new and existing communities.			✓
(h) Ensure better connectivity and linkages between land uses.	✓		
(i) Adequately buffer and mitigate noise and air pollution in mixed-use areas to maintain residential quality of life.			✓
(j) Protect rural communities and traditional small towns by regulating the footprint, locations, site planning, and design of structures.			✓
(k) Support small-town revitalization and preservation.			✓
(l) Facilitate safe pedestrian access, and create linkages between destinations and within parking areas.		✓	
Implementing Actions:			
(a) Establish design guidelines and standards to enhance urban and rural environments.			✓
(b) Provide funding for civic-center and civic-space developments.			✓
(c) Establish and enhance urban forests in neighborhoods and business districts.			✓
Analysis: The proposed action is directly related to this objective as it will provide an opportunity for similar industrial uses to co-locate in an area specifically designated for industrial use by the Lāna'i Community Plan. Building the industrial park will allow existing industrial facilities currently scattered in business and residential areas in Lāna'i City to relocate to more appropriate locations having the infrastructure and buffers necessary for industrial uses.			
Objective:			
(4) Improve and increase efficiency in land use planning and management.		✓	
Policies:			
(a) Assess the cumulative impact of developments on natural ecosystems, natural resources, wildlife habitat, and surrounding uses.			✓
(b) Ensure that new development projects requiring discretionary permits demonstrate a community need, show consistency with the General Plan, and provide an analysis of impacts.		✓	
(c) Encourage public and private partnerships to preserve lands of importance, develop housing, and meet the needs of residents.			✓
(d) Promote creative subdivision designs that implement best practices in land development, sustainable management of natural and physical resources, increased pedestrian and bicycle functionality and safety, and the principles of livable communities.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(e) Coordinate with Federal, State, and County officials in order to ensure that land use decisions are consistent with County plans and the vision local populations have for their communities.			✓
(f) Enable greater public participation in the review of subdivisions.			✓
(g) Improve land use decision making through the use of land- and geographic information systems.			✓
Implementing Actions:			
(a) Institute a time limit and sunseting stipulations on development entitlements and their implementation.			✓
Analysis: By engaging in the Chapter 343, Hawai'i Revised Statutes (HRS) and land use entitlements processes, the project advances transparency in the project planning process. As well, the applicant has facilitated a community outreach program which fosters engagement with interested stakeholders, and which supports the project's analysis of impacts.			
K. STRIVE FOR GOOD GOVERNANCE			
Objective:			
(1) Strengthen governmental planning, coordination, consensus building, and decision making.			✓
Policies:			
(a) Plan and prepare for the effects of social, demographic, economic, and environmental shifts.			✓
(b) Plan for and address the possible implications of Hawaiian sovereignty.			✓
(c) Encourage collaboration among government agencies to reduce duplication of efforts and promote information availability and exchange.			✓
(d) Expand opportunities for the County to be involved in and affect State and Federal decision making.			✓
(e) Plan and prepare for large-scale emergencies and contingencies.			✓
(f) Improve public awareness about preparing for natural hazards, disasters, and evacuation plans.			✓
(g) Improve coordination among Federal, State, and County agencies.			✓
Implementing Actions:			
(a) Develop policies, regulations, and programs to protect and enhance the unique character and needs of the County's various communities.			✓
(b) Evaluate and if necessary, recommend modifications to the County Charter that could result in a possible change to the form of governance for Maui County.			✓
(c) Study and evaluate the feasibility and implications of voting in Maui County Council elections.			✓
(d) Study and evaluate the feasibility of authorizing town governments in Maui County.			✓
Analysis: The objective of strengthening governmental planning, coordination, consensus building, and decision-making is not applicable to the proposed action. By example, the proposed action does not advance the policy relating to large-scale emergencies and contingencies nor does it affect opportunities for County involvement in State and Federal decision-making.			
Objective:			
(2) Promote civic engagement.	✓		

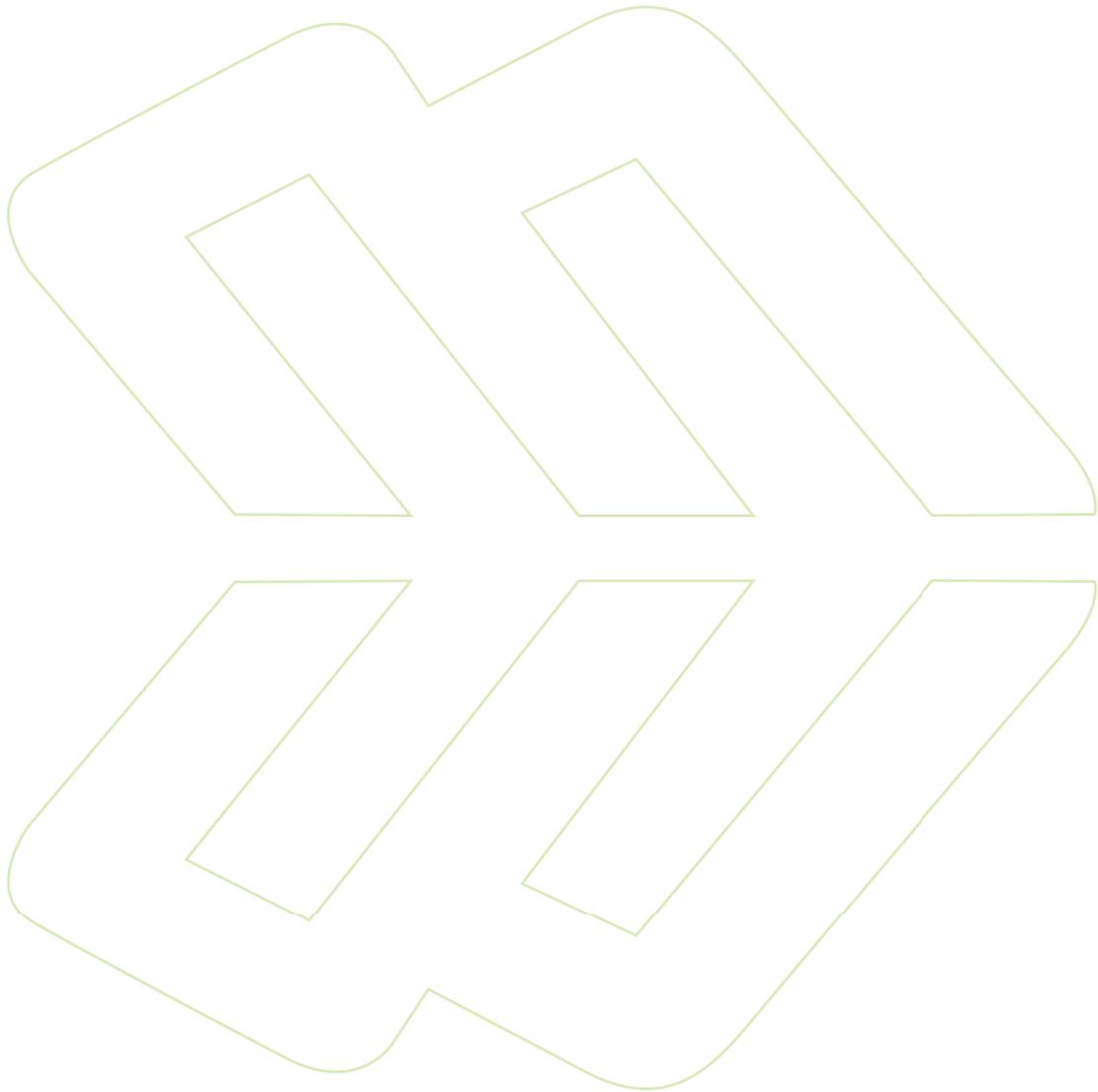
COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
Policies:			
(a) Foster consensus building through in-depth, innovative, and accessible public participatory processes.	✓		
(b) Promote and ensure public participation and equal access to government among all citizens.	✓		
(c) Encourage a broad cross-section of residents to volunteer on boards and commissions.			✓
(d) Encourage the State to improve its community-involvement processes.			✓
(e) Support community-based decision making.		✓	
(f) Expand advisory functions at the community level.			✓
(g) Expand opportunities for all members of the public to participate in public meetings and forums.	✓		
(h) Facilitate the community's ability to obtain relevant documentation.		✓	
(i) Increase voter registration and turnout.			✓
Implementing Actions:			
(a) Implement two-way communication using audio-visual technology that allows residents to participate in the County's planning processes.			✓
(b) Ensure and expand the use of online notification of County business and public meetings, and ensure the posting of all County board and commission meeting minutes.			✓
(c) Explore funding mechanisms to improve participation by volunteers on boards and commissions.			✓
(d) Develop a project-review process that mandates early and ongoing consultation in and with communities affected by planning and land use activities.	✓		
Analysis: The proposed action promotes civic engagement through the Chapter 343, HRS, Environmental Assessment (EA) and land use entitlements processes. Public participation is promoted through review process for the Draft EA and land use applications, as well as through the Urban Design Review Board and Lana'i Planning Commission proceedings. Additionally, the applicant has undertaken a community outreach process designed to inform nearby residents and the larger community of the proposed project. Collectively, the foregoing processes support community-based decision-making.			
Objective:			
(3) Improve the efficiency, reliability, and transparency of County government's internal processes and decision making.		✓	
Policies:			
(a) Use advanced technology to improve efficiency.			✓
(b) Simplify and clarify the permitting process to provide uniformity, reliability, efficiency, and transparency.		✓	
(c) Improve communication with Lana'i and Moloka'i through the expanded use of information technologies, expanded staffing, and the creation and expansion of government-service centers.			✓
(d) Ensure that laws, policies, and regulations are internally consistent and effectuate the intent of the General Plan.		✓	
Implementing Actions:			
(a) Update the County Code to be consistent with the General Plan.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(b) Identify and update County regulations and procedures to increase the productivity and efficiency of County government.			✓
(c) Develop local level-of-service standards for infrastructure, public facilities, and services.			✓
(d) Implement plans through programs, regulations, and capital improvements in a timely manner.			✓
(e) Expand government online services.			✓
Analysis: Participation in the Chapter 343, HRS, and land use processes advances the objective to promote efficiency reliability and transparency in governmental decision-making. The concurrent processing of the EA and land use requests simplifies the permitting process. The project has been assessed in the context of the General Plan and advances transparency in the project planning process.			
Objective:			
(4) Adequately fund in order to effectively administer, implement, and enforce the General Plan.		✓	
Policies:			
(a) Adequately fund, staff, and support the timely update and implementation of planning policy, programs, functional plans, and enforcement activities.			✓
(b) Ensure that the County's General Plan process provides for efficient planning at the County, island, town, and neighborhood level.			✓
(c) Encourage ongoing professional development, education, and training of County employees.			✓
(d) Encourage competitive compensation packages for County employees to attract and retain County personnel.			✓
(e) Enable the County government to be more responsive in implementing our General Plan and Community Plans.		✓	
(f) Review discretionary permits for compliance with the Countywide Policy Plan.		✓	
(g) Strengthen the enforcement of County, State, and Federal land use laws.			✓
Implementing Actions:			
(a) Establish penalties to ensure compliance with County, State, and Federal land use laws.			✓
Analysis: The proposed action has been assessed in the context of the General Plan and advances implementation of the land use objectives and policies in the Community Plan. The project's land use applications, which are discretionary approvals, will be reviewed in the context of the County General Plan.			
Objective:			
(5) Strive for County government to be a role model for implementing cultural and environmental policies and practices.		✓	
Policies:			
(a) Educate residents on the benefits of sustainable practices.			✓
(b) Encourage the retention and hiring of qualified professionals who can improve cultural and environmental practices.		✓	
(c) Incorporate environmentally sound and culturally appropriate practices in government operations and services.			✓
(d) Encourage all vendors with County contracts to incorporate environmentally sound and culturally appropriate practices.			✓

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
Analysis: Studies prepared for the proposed action have been assessed in the context of applicable cultural and environmental policies and objectives. As well, construction specifications for the project will incorporate environmentally sound and culturally appropriate measures for the project's contractor.						
L. MITIGATE CLIMATE CHANGE AND WORK TOWARD RESILIENCE						
Goal: Minimize the causes and negative effects of climate change.						
Objective:						
(1) Lower carbon emissions levels to mitigate climate change impacts and limit the rate of global warming.						✓
Policies:						
(a) Increase reforestation efforts by encouraging residents and visitors to plant non-invasive gardens and trees.						✓
(b) Improve communication, coordination, and collaboration among those that work to mitigate climate change impacts.						✓
(c) Promote the teaching and use of regenerative agriculture.						✓
(d) Invest in infrastructure that is not dependent on fossil fuels and utilizes renewable energy.	✓					
(e) Improve efforts to mitigate and plan for the impact of natural disasters and global warming.						✓
(f) Encourage the building industry to use environmentally sustainable materials, technology, and site planning.		✓				
(g) Reduce air, noise, light, land, and water pollution, and reduce Maui County's contribution to global climate change.						✓
(h) Plan and prepare for and educate visitors and residents about the possible effects of global warming.						✓
(i) Promote programs and incentives that decrease greenhouse-gas emissions and improve environmental stewardship.						✓
(j) Support the development of carbon-emission standards and an incentive program aimed at achieving County carbon-emission goals.						✓
Implementing Actions:						
(a) Implement Federal and State policies that require a reduction of greenhouse-gas emissions.			✓			
(b) Establish a Countywide Climate Action Plan						✓
(c) Develop programs that assist residents and businesses with obtaining access to renewable energy sources.						✓
(d) Revise laws to support neighborhood designs that incorporate the use of renewable energy sources that are appropriate for island living.						✓
(e) Incorporate planting of native and indigenous trees as a major component of Urban Design to both cool neighborhoods and reduce carbon dioxide.						✓
(f) Coordinate with State, County, and private landowners in the development of forestry and prioritizing of native and indigenous trees to reduce carbon dioxide.						✓
(g) Strongly support efforts to restore and improve Maui County's watersheds for the purpose of improving the water supply, controlling carbon dioxide levels, decreasing soil runoff, and reducing coastal flooding.						✓
Analysis: The project directly supports the objective of minimizing the causes and negative effects of climate change, with 127 acres proposed for renewable energy use that will reduce the island's dependence on fossil fuels.						

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)				DA	IA	NA
Objective:						
(2) Reduce the impacts of sea-level rise by acknowledging climate change, adapting, mitigating, and planning accordingly.						✓
Policies:						
(a) Evaluate development to assess potential short-term and long-term sea-level rise impacts on nearshore environments.						✓
(b) Improve efforts to mitigate and plan for the impact of sea-level rise.						✓
(c) Protect undeveloped beaches, dunes, and ecosystems, and restore natural shoreline processes.						✓
(d) Develop an inventory of private wastewater systems (septic systems, cesspools) that may be affected by sea-level rise.						✓
(e) Strengthen coastal-zone management, re-naturalization of shorelines, where possible, and filtration or treatment of urban and agricultural runoff.						✓
(f) Educate the construction and landscape industries and property owners about the use of best management practices to prevent erosion and nonpoint source pollution.						✓
(g) Discourage beach hardening processes such as building sea walls and revetments that block movement of the shoreline and can accelerate erosion.						✓
(h) Discourage new entitlements for residential, resort, or commercial development along the shoreline.						✓
(i) Restrict development in areas that are prone to sea-level rise.						✓
(j) Move or rebuild public facilities away from nearshore environments to account for sea-level rise to the extent reasonable.						✓
(k) Move or rebuild roads that are in sea-level rise inundation zones to the extent reasonable.						✓
(l) Ensure that public or affordable housing projects include siting and design standards that promote equity and resilience for vulnerable populations.						✓
(m) Identify, research, and evaluate innovative and sustainable financing to support mitigation and adaptation to sea level rise.						✓
Implementing Actions:						
(a) Develop programs to help transition shoreline property owners out of their nearshore locations and develop a long-term plan to stay out of the way of natural beach migration.						✓
(b) Identify buildings, roads, and other infrastructure that are in sea-level rise inundation zones and assist in adaptive efforts, including nature-based solutions, elevation, or moving them away from such zones.						✓
(c) Identify disaster redevelopment alternatives that support resilience-focused adaptation to sea level rise in the event of a catastrophic coastal event.						✓
Analysis: The project will not be affected by sea-level rise as it is located 3.5 miles from the nearest coastline and is at a high elevation point on the island of Lānaʻi.						
Objective:						
(3) Significantly increase the use of renewable and green technologies to promote energy efficiency and energy self-sufficiency.	✓					
Policies:						
(a) Promote the use of locally renewable energy sources, and reward energy efficiency.					✓	
(b) Consider tax incentives and credits for the development of sustainable- and renewable-energy sources.					✓	

COUNTYWIDE POLICY PLAN (Key: DA = Directly Applicable, IA = Indirectly Applicable, NA = Not Applicable)	DA	IA	NA
(c) Expand education about energy conservation and self-sufficiency.			✓
(d) Encourage small-scale energy generation that utilizes wind, sun, water, biowaste, and other renewable sources of energy.			✓
(e) Expand renewable-energy production.	✓		
(f) Develop public-private partnerships to ensure the use of renewable energy and increase energy efficiency.			✓
(g) Require the incorporation of locally appropriate energy-saving and green building design concepts in all new developments by providing energy-efficient urban design guidelines and amendments to the Building Code.			✓
(h) Encourage the use of sustainable energy to power vehicles.		✓	
(i) Promote the retrofitting of existing buildings and new development to incorporate energy-saving design concepts and devices.	✓		
(j) Encourage green footprint practices.		✓	
(k) Reduce Maui County's dependence on fossil fuels and energy imports.	✓		
(l) Support green building practices such as the construction of buildings that aim to minimize carbon dioxide production, produce renewable energy, and recycle water.	✓		
(m) Promote and support environmentally friendly practices in all energy sectors.			✓
Implementing Actions:			
(a) Adopt an energy-efficiency policy for Maui County government as a model for other jurisdictions.			✓
(b) Adopt a Green Building Code and support green building practices.			✓
Analysis: The project directly supports the objective of significantly increasing the use of renewable and green technologies to promote energy efficiency and energy self-sufficiency, with 127 acres proposed for renewable energy use that will reduce the island's dependence on fossil fuels.			



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