Briefing Materials Handbook for the

EAST HONOLULU
SUSTAINABLE COMMUNITIES PLAN
PUBLIC REVIEW DRAFT

City and County of Honolulu
Department of Planning and Permitting

March 19, 2019
EXECUTIVE SUMMARY

The East Honolulu Sustainable Communities Plan – Public Review Draft (the “Plan”) is organized in five chapters and an appendix, as follows:

- Chapter 1: East Honolulu’s Role in O‘ahu’s Development Pattern defines the region’s role and identity within the overall framework of islandwide planning and land use management;
- Chapter 2: The Vision for East Honolulu’s Future summarizes the community-based vision for the future of the region, discusses key elements of that vision, and presents illustrative maps and tables;
- Chapter 3: Land Use Policies and Guidelines provides the land use policies needed to implement the vision for East Honolulu described in Chapter 2;
- Chapter 4: Public Facilities and Infrastructure Policies and Guidelines provides the infrastructure policies needed to implement the vision for East Honolulu described in Chapters 2 and 3;
- Chapter 5: Implementation identifies the means through which the policies will be applied, including zone changes, and infrastructure budgeting and development outlined by the Plan; and
- Appendix A includes:
  - Three conceptual maps (Open Space, Urban Land Use, and Public Facilities) which illustrate the vision and policies of the Plan; and
  - A glossary of terms used in the Plan and on those maps.

The following summary provides an overview of the vision, land use and infrastructure policies of the Plan and the means of implementation.

The Plan and supplemental information is available on the Department of Planning and Permitting’s website at: http://www.honoluludpp.org/Planning/DevelopmentSustainableCommunitiesPlans/EastHonoluluPlan.aspx

EAST HONOLULU’S ROLE IN O‘AHU’S DEVELOPMENT PATTERN

- Limited development and population growth so that East Honolulu’s share of O‘ahu’s population remains stable at approximately five percent;
- Maintenance as a predominantly residential area characterized by generally low-rise, low-density development; and
- Moderate growth of business centers, retail and service commercial uses, and satellite institutional and public uses geared to serving the needs of households.
THE VISION TO 2040

- Population remains stable at approximately 50,000 through 2035 and 2040;
- An estimated 24 percent of O'ahu residents will be 65 years and older by 2040 with approximately 37 percent of East Honolulu residents that will be 65 years and older, the highest on O'ahu; and
- Job stabilization and slight growth from 10,240 civilian jobs in 2010 to 10,400 jobs.

ELEMENTS OF THE VISION

- **Protect Community Resources** by:
  - Protecting scenic views, particularly the Ka Iwi Scenic Shoreline;
  - Providing and improving access to shoreline and mountain recreational areas;
  - Creating more complete streets comprised of landscaped pathways along roadways and drainage ways;
  - Promoting stewardship of natural resources;
  - Anticipating and mitigating against potential climate change and sea level rise impacts;
  - Preserving significant historic, cultural, and archaeological features;
  - Protecting and preserving existing agricultural areas; and
  - Containing all urban development within the existing Community Growth Boundary.

- **Adapt to Changing Community Needs** by:
  - Improving and replacing the region's aging infrastructure, as needed;
  - Preparing the community and infrastructure for anticipated impacts from natural disasters and climate change;
  - Adapting the housing supply, public spaces, and street orientation to meet the expected aging of the population; and
  - Focusing commercial centers on serving the region's neighborhoods.
IMPLEMENTING POLICIES AND GUIDELINES

Land use development policies and implementing guidelines are provided for:
- Open space preservation, natural resources, and scenic views;
- Recreational access to shoreline and mountain areas;
- Island-based and community-based parks and recreation;
- Historic and cultural resources;
- Residential communities and commercial redevelopment; and
- Anticipating and mitigating against potential climate change and sea level rise impacts.

Infrastructure policies and implementing guidelines are provided for:
- Transportation systems;
- Water systems development;
- Wastewater treatment;
- Electrical power and communications systems;
- Solid waste handling and disposal;
- Drainage systems;
- School facilities;
- Public safety facilities; and
- Other community facilities.

The means for implementing the Plan are provided through:
- Focusing residential and non-residential development to areas within the Community Growth Boundary (CGB);
- Guiding development within areas of critical concern with Special Area Plans, as needed, although none currently exist in East Honolulu;
- Incorporating the Plan vision and policies in the review of zone changes and other land use approvals and in establishing conditions for these land use approvals which will help ensure the vision and policies are implemented;
- Incorporating the Plan vision and policies in the review of projects to be added to the Public Infrastructure Map and funded through the Capital Improvement Program budget; and
- Conducting an evaluative review of the Plan vision, policies and implementation at regular intervals after the adoption of the revised Plan, and reporting on implementation progress as required by the City Charter.
Table 2-1: Potential Housing within CGB on Lands Zoned for Residential Use

<table>
<thead>
<tr>
<th>Project Areas</th>
<th>Probable Units¹</th>
<th>Possible Units²</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wai’alae Nui</td>
<td>14</td>
<td></td>
<td>Ord. 96-69 limits site to 14 units</td>
</tr>
<tr>
<td>Wai’alae Iki</td>
<td>9</td>
<td></td>
<td>Owner-build lots</td>
</tr>
<tr>
<td>‘Āina Haina</td>
<td>10</td>
<td></td>
<td>Lots in upper ‘Āina Haina (2); lower ‘Āina Haina (8)</td>
</tr>
<tr>
<td>Hawai‘i Loa Ridge</td>
<td>26</td>
<td></td>
<td>Owner-build lots</td>
</tr>
<tr>
<td>Niu Valley</td>
<td></td>
<td>30</td>
<td>3 large adjacent lots with 6 existing units</td>
</tr>
<tr>
<td>Kuli‘ou‘ou</td>
<td></td>
<td>8</td>
<td>Large vacant lot</td>
</tr>
<tr>
<td>Kamilo Iki Valley</td>
<td></td>
<td>16</td>
<td>Large vacant lot</td>
</tr>
<tr>
<td>Hawai‘i Kai</td>
<td>28</td>
<td></td>
<td>Remaining units from Ord. 99-54 &amp; Ord. 00-70</td>
</tr>
<tr>
<td>Nā Pali Hāweo (Kamehame)</td>
<td>16</td>
<td></td>
<td>Owner-build lots</td>
</tr>
<tr>
<td>Lower Kalama Valley</td>
<td>21</td>
<td></td>
<td>2015/CL-5 (14) &amp; 499 Kealahou (7)</td>
</tr>
<tr>
<td>Infill Vacant Lots</td>
<td>50</td>
<td></td>
<td>Vacant standard-size lots within the Plan area</td>
</tr>
<tr>
<td>‘Ohana or ADU units</td>
<td>50</td>
<td></td>
<td>Assumes 2-3 units per year between 2020 &amp; 2040</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>224</strong></td>
<td><strong>54</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Cumulative Total</strong></td>
<td><strong>278 units</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Includes unbuilt units with approved building permits, units approved as part of a larger development or cluster project, vacant standard-size lots within approved subdivisions, and ‘Ohana/ADU units at 2-3 per year.

² Estimates based on lot size built to underlying zoning density after accounting for steep lands and clustering of units.

Table 2-3: Percentage of Area Population 65 Years and Older

<table>
<thead>
<tr>
<th>Area</th>
<th>1980¹</th>
<th>1990¹</th>
<th>2000¹</th>
<th>2010¹</th>
<th>2015¹</th>
<th>2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Honolulu</td>
<td>9.3%</td>
<td>11.7%</td>
<td>18.2%</td>
<td>21.6%</td>
<td>23.5%</td>
<td><strong>37%²</strong></td>
</tr>
<tr>
<td>All O‘ahu</td>
<td>7.3%</td>
<td>10.9%</td>
<td>13.4%</td>
<td>14.5%</td>
<td>16.2%</td>
<td><strong>23.7%³</strong></td>
</tr>
</tbody>
</table>

### TABLE I-3: GROWTH PROJECTIONS BY DP AREA

<table>
<thead>
<tr>
<th>DEVELOPMENT PLAN AREA</th>
<th>RESIDENT POPULATION</th>
<th>VISITOR UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Share</td>
</tr>
<tr>
<td>Primary Urban Center</td>
<td>435,118</td>
<td>444,795</td>
</tr>
<tr>
<td>Ewa</td>
<td>101,397</td>
<td>130,702</td>
</tr>
<tr>
<td>Central Oahu</td>
<td>168,643</td>
<td>174,351</td>
</tr>
<tr>
<td>East Honolulu</td>
<td>49,514</td>
<td>51,514</td>
</tr>
<tr>
<td>Koolau Poko</td>
<td>115,164</td>
<td>115,868</td>
</tr>
<tr>
<td>Koolau Loa</td>
<td>16,732</td>
<td>17,427</td>
</tr>
<tr>
<td>North Shore</td>
<td>17,720</td>
<td>18,670</td>
</tr>
<tr>
<td>Waianae</td>
<td>48,519</td>
<td>50,480</td>
</tr>
<tr>
<td>OAHU TOTAL</td>
<td>953,207</td>
<td>1,003,700</td>
</tr>
<tr>
<td>Annual Growth Rate</td>
<td>0.3%</td>
<td>0.3%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DEVELOPMENT PLAN AREA</th>
<th>HOUSING UNITS</th>
<th>TOTAL JOBS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Share</td>
</tr>
<tr>
<td>Primary Urban Center</td>
<td>174,569</td>
<td>184,343</td>
</tr>
<tr>
<td>Ewa</td>
<td>30,726</td>
<td>40,839</td>
</tr>
<tr>
<td>Central Oahu</td>
<td>59,998</td>
<td>54,462</td>
</tr>
<tr>
<td>East Honolulu</td>
<td>16,774</td>
<td>19,391</td>
</tr>
<tr>
<td>Koolau Poko</td>
<td>36,894</td>
<td>38,318</td>
</tr>
<tr>
<td>Koolau Loa</td>
<td>4,884</td>
<td>5,262</td>
</tr>
<tr>
<td>North Shore</td>
<td>6,678</td>
<td>7,228</td>
</tr>
<tr>
<td>Waianae</td>
<td>13,376</td>
<td>14,363</td>
</tr>
<tr>
<td>OAHU TOTAL</td>
<td>336,899</td>
<td>364,900</td>
</tr>
<tr>
<td>Annual Growth Rate</td>
<td>0.5%</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

**NOTE:** All projected "Oahu Total" counts are rounded to the nearest 100. Percentage shares by DP area may not sum to 100% due to rounding. Areas with negative increases should be interpreted as stable communities with little or no growth expected. The negative population is caused by declines in household size that negated any population increases from housing unit gains.
PROPOSED CHANGES TO THE PLAN

PREFACE AND EXECUTIVE SUMMARY

1. Modified section layout to be consistent with the other Development Plan areas ................................................................. ES-1 to 8
2. Updated Exhibit ES-1 with map from the proposed GP revisions .......... ES-2
3. Simplified layout to bullets similar to other Development Plan areas..... ES-9 to 12

CHAPTER 1: EAST HONOLULU’S ROLE IN O‘AHU’S DEVELOPMENT PATTERN

4. Updated Exhibit 1-1 with map from the GP ......................................................... 1-2
5. Added following guidelines:
   a. Age-friendly community policies with a focus on complete streets .... 1-3
   b. Create resilient, disaster-ready communities ............................................. 1-3
   c. Reduce exposure to natural hazards, including those related to climate change and sea level rise.................................................. 1-3
   d. Adopt and implement the ahupua’a concept .............................................. 1-4
   e. Improve downstream water quality; implement LID standards ............ 1-4

CHAPTER 2: THE VISION FOR EAST HONOLULU’S FUTURE

6. Adjust vision throughout the Plan to 2040. Add second planning horizon, “Beyond 2040” bullet consistent with other Development Plan areas .......... 2-1
7. Impacts of climate change will become more evident beyond 2040 .......... 2-1
8. New structures and facilities are designed to adapt to and mitigate the potential impacts of climate change. Incorporate LID standards ............... 2-3
9. Update Section 2.2 outline .................................................................................. 2-3
10. Change “Urban Community Boundary” to “Community Growth Boundary” throughout ............................................................................. 2-3+
11. Update Exhibit 2-1 to have consistent style with other exhibits ............. 2-5
12. Add Ka Iwi Coast lands as areas in State Urban outside of the CGB ....... 2-6
13. Removed Figure 2-2 Suspect Areas for Land Movement and replace with reference to U.S. Geological Survey .................................................. 2-7
14. Revise Table 2-1 Housing capacity .................................................................... 2-7
15. Change preservation boundary to preservation lands ........................... 2-8+
16. Update Exhibit 2-2 Scenic Resources to include Na Ala Hele Trails ....... 2-9
17. Add to description of preservation lands to include: areas of historical significance, recreational lands with visual landmarks and significant vistas, and recommendation to limit building heights.........................2-10 & 11
18. Add Section 2.2.2 Ahupua’a Management.......................................................2-11
19. Rename Section 2.2.3 to Ka Iwi Scenic Shoreline.........................................2-13
20. Shorten name of Section 2.2.4 Ridge-and-Valley Neighborhoods..............2-13
21. Rename Section 2.2.5 Mauka-Makai Recreational Access............................2-15
22. Remove description of beach access in East Honolulu being “less problematic.” Add how erosion and SLR can reduce lateral access.................2-15
23. Add description that there are approximately 19 shared driveways along Portlock Road that have access to the coastline.................................................2-15
24. Add Maunalua Bay and Ka Iwi Scenic Shoreline to Natural Areas...............2-15
25. Access to natural areas should be provided to the public insofar as to not adversely impact the habitats they foster. .......................................................2-16
26. Recognize the stewardship needs for natural areas and the contributions of residents and community organizations to the environment and protection of resources in perpetuity ...............................................................2-16
27. Rename Section 2.2.7 to Housing Stability and Age-Friendly Communities.................................................................2-16
28. Update description of unevenness of aging even within East Honolulu........2-17
29. Add Table 2-2 to reflect minimal projected population growth in East Honolulu .................................................................................................2-17
30. Add Table 2-3 to reflect the changing demographics and the growth in the gap of elderly projected to live in East Honolulu in comparison to the remainder of O’ahu.................................................................2-17
31. The community is rapidly aging and East Honolulu must strive to create “an inclusive and accessible urban or suburban environment that encourages active and healthy aging” in accordance with the goals and visions from Making Honolulu an Age-Friendly City: Action Plan.................................2-18
32. Consider allowing residential uses in business districts above the first floor to create more affordable housing, particularly for seniors.........................2-18
33. Add Section 2.2.9 Climate Change Adaptation.............................................2-20 to 22
34. East Honolulu will mitigate and minimize the vulnerability of social and physical infrastructure while increasing community resiliency. .................2-20
35. The City will work cooperatively to develop and implement land use policies, hazard mitigation actions, and design and construction standards that mitigate and adapt to the impacts of climate change and SLR.........................2-20
36. City shoreline maps and regulations will be updated based on guidance from the City Climate Change Commission. Proposed projects should reflect up-to-date data from the most current versions of the *Sea Level Rise Guidance* and *Climate Change Brief*.

37. “Build back better and smarter” after a disaster.

38. Add Exhibit 2-3 SLR Projections

**CHAPTER 3: LAND USE POLICIES AND GUIDELINES**

39. Add to the General Policies for Open Space Uses:
   a. Provide and maintain recreational access to open space in shoreline and mountain areas.
   b. Promote and support the long-term viability of agriculture.
   c. Protect endangered species habitats.
   d. Protect aesthetic and biological value of wetlands, natural streams, and other drainage ways.
   e. Linear system of landscaped pathways to enhance, create more complete streets, and assist with stormwater retention.
   f. Prevent development of areas susceptible to natural hazards such as soil movement, rock falls, coastal erosion, and sea level rise.


41. Added HRS references.

42. Added Wiliwilinui Ridge Trail.

43. Added golf courses to Exhibit 3-1. Removed trails not managed but within State inventory from *Exhibit 3-1* per DLNR Nā Ala Hele recommendation. Instead documented in *Table 3-1*.

44. Mitigate erosion and social impacts of congestion.

45. Acquire/maintain public access easements to trails or a NGO to do same.

46. Control the number and range of feral animals and alien species.

47. Create a City Resource Management Program.

48. Better balance trail demands across East Honolulu and alleviate congestion through the opening and sanctioning of additional trails, particularly in Mariners Ridge, Niu Valley, and Kamilo Nui Valley.

49. Move Shoreline Areas from *Section 3.1.3.6* to *Section 3.1.2.2*.

50. Shoreline access is protected under HRS 115-1.

51. Over the *Plan*’s long-term horizon, East Honolulu will face increased threats from coastal hazards and flooding as a result of climate change.
52. With the projected rate of SLR and shoreline erosion, setbacks will have to be reviewed and increased routinely to mitigate further damages.............. 3-8
53. Members of the Portlock are dedicated to ensuring the existing nineteen driveways remain open to the public for shoreline access.........................3-8
54. Citizen reporting of shoreline access issues (incl. veg) to the DLNR........3-9 & 10
55. Recognize SLR and erosion impacts to lateral access............................3-10
56. Recognize and codify mauka-makai shoreline access into the ROH........3-10
57. Further alteration of the shoreline is discouraged..................................3-10 & 25
58. Protect, adapt, or relocate the highest priority vulnerable infrastructure...3-10
59. Analyze all hazard, erosion, and projected SLR rates for new projects.....3-10
60. Protect, adapt, and relocate structures, public facilities, and natural and cultural resources through the formation of community-based redevelopment districts........................................................... 3-10, 11, 39, 46
61. Use most current information from Climate Change Commission..........3-10
62. Develop design and construction standards to mitigate impacts from climate change and SLR .................................................................3-11
63. Assess all hazards in land development application process......................3-11
64. Map repetitive loss areas and develop and implement a “build back better and smarter” strategy .................................................................3-11
65. Develop short- and long-term resiliency and recovery plans....................3-11
66. An economic feasibility study for viability of agriculture in Kamilo Nui....3-11
67. Include the existing Leolani within the Community Growth Boundary....3-12
68. Preserve the Community Growth Boundary through 2040.....................3-12
69. Implement agricultural BMPs to mitigate stormwater runoff...................3-13
70. Change drainageways to drainage corridors............................................3-13+
71. Add Exhibit 3-2 National Wetlands Inventory and benefit discussion........3-13
72. Restore ecological function through LID standards, green infrastructure, landscape features, natural improvements to park and preservation lands, and incentives to homeowners to reduce runoff.............3-13,15 & 50
73. Clean up contaminated areas.....................................................................3-15
74. Incorporate landscaped pathways and bikeways adjacent to stream channels where appropriate and feasible ...........................................3-15
75. Retain stormwater runoff onsite.................................................................3-15
76. Protect preservation lands located within the CGB to prevent further degradation of nearshore water quality .............................................3-15
77. Identify potential natural improvements to park and preservation lands....3-15

10
78. Remove **3.1.3.4 Community-Based Parks** and combine with **Section 3.3** ... 3-16
79. Remove **3.1.3.5 Golf Courses** and combine with **Section 3.2.3.3** ................. 3-16
80. Rename **3.1.2.5 Natural Resources and Preserves** from Wildlife .................. 3-16
81. Add discussion of new natural areas by adding Kānewai Spring and Fishpond, Ka Iwi Coast, Keawāwa Marsh and Wetlands, Kulī’ou’ou and Honolulu Watershed Forest Reserves, and Maunalua Bay ............ 3-16 to 18
82. Revise **Exhibit 3-3 Natural Areas** by removing wetlands (now on a separate map) and adding natural areas mentioned above ..................................... 3-17
83. Include ongoing discussion of Rim Island 2 in Kuapā Pond with calls for a biological study ................................................................. 3-19
84. Views across the marina should be maintained ................................................. 3-20
85. Install and maintain landscaping along marina edge, where appropriate ......... 3-20
86. Encourage Best Management Practices for marina uses to prevent further degradation of water quality to both the marina and Maunalua Bay .......... 3-20
87. Incorporate DPR changes to Botanical Gardens ............................................ 3-22, 26, & 27
88. Identify trail amenity improvements and Ka Iwi Mauka Lands purchase ....... 3-24
89. Add **3.2.1.4 Aquatic Recreation** section and identify State jurisdiction .......... 3-25
90. Remove **3.2.1.4 Golf Courses** and combine with **Section 3.2.3.3** ................. 3-26
91. Expand access to existing parks by improving paths and linkages for people to walk and bike ................................................................. 3-26 & 33
92. Preserve Ka Iwi Scenic Shoreline ...................................................................... 3-26
93. Incorporate DPR’s recommendations including: prohibiting access to trails and paths outside of Koko Crate Botanical Garden from within the garden, restrict horseback riding to areas away from plant collections, and continue develop the garden as a conservation site of global importance for Hawai’i and other tropical dryland areas ............................................. 3-26 & 27
94. Prohibit alterations to the shoreline ................................................................. 3-26
95. Reduce light pollution's adverse impact on wildlife and human health .......... 3-28
96. Add **Table 3-4 East Honolulu Golf Courses** .................................................. 3-29
97. The main purpose of community-based parks is to provide active recreation space .................................................................................. 3-30
98. Private recreation facilities also meet some of the demand for parks .......... 3-30
99. Add Private Recreation Facilities to **Table 3-6** .............................................. 3-31
100. Remove **Increase the inventory of community-based parks** ......................... 3-33
101. Remove **Have new residential development provide land for open and recreation purposes in lieu of a park fee for dedication purposes** ................. 3-33
102. Remove **Table 3-5 Significant Cultural and Historic Sites** so as to not publish the location of sensitive sites........................................................................................................3-35
103. Describe Hāwea Heiau complex and Pahua Heiau.........................................................................................................................3-35
104. Include sight lines that are significant to the value of the site ........................................................................................................3-36
105. Discuss the development of ohana units, or accessory dwelling units (ADUs), both historically and their benefits........................................................................................................3-37
106. Create an accessible and age-friendly urban and suburban environment..........................................................................................3-39
107. Form a community-based redevelopment district .........................................................................................................................3-39
108. Incorporate the recommendations of the Climate Commission’s Hawai‘i Sea Level Rise Vulnerability and Adaptation Report........................................................................................................3-39
109. Improve management and enforcement of transient vacation units .................................................................................................3-39
110. Seek to reduce the number of vehicle miles traveled per person and implement the **O‘ahu Bike Plan** ..................................................................................................................................................3-40
111. Require Low-Impact Development (LID) standards for redevelopment and incentivize green infrastructure projects to retain stormwater........................................................................................................3-40 & 49
112. Remove It is intended that no new Medium-Density Apartment projects will be developed in the region ..................................................................................................................................................3-41
113. Rename **Section 3.5.3.2 Special Needs Housing and Senior Housing** ..........3-41
114. Add Universal Design Standards and a description ..........................................................................................................................3-42
115. Remove **Table 3-6 Commercial Centers** ..................................................................................................................................................3-43
116. A religious community in Niu Valley Center is diminishing commercial use . . . 3-44
117. Commercial zones in East Honolulu appear sufficient in view of the projected population stabilization ..................................................................................................................................................3-44
118. Description of past and potential future commercial changes ........................................................................................................3-44
119. Remove The communities served by these Neighborhood Commercial Centers are expected to experience minimal population growth through 2040 in the event that more mixed-use is allowed in the area ..................................................................................................................................................3-46
120. Low-rise multi-family residential permitted use above in B-1 & B-2 districts . . . 3-46
121. Non-residential development protect, adapt or relocate due to SLR, including Kāhala Resort ..................................................................................................................................................3-46 to 48
122. Enhance the Hawai‘i Kai Towne Center as a focus of activity by offering a greater diversity of uses ..................................................................................................................................................3-47
123. Enhance the Koko Marina Shopping Center as a recreation/entertainment oriented commercial complex ..................................................................................................................................................3-47
124. Parking areas require a landscaped screen in setbacks with shade trees throughout the parking lot for aesthetics and stormwater retention ..................................................................................................................................................3-49
125. Provide incentives for owners to develop rain gardens, permeable parking lots and driveways.......................................................... 3-50

CHAPTER 4: PUBLIC FACILITIES AND INFRASTRUCTURE POLICIES AND GUIDELINES

126. The completion of the Hawai‘i Kai Drive connection would require the acquisition of a 56-foot right-of-way and the resolution of drainage issues ....... 4-2
127. 2040 ORTP discussion ............................................................................................................. 4-2
128. Potential bus route switch if there is a move to hub-and-spoke system ........ 4-3
129. Implement the findings and recommendations found in the Statewide Pedestrian Master Plan, the Honolulu Complete Streets Design Manual, the Bike Plan Hawai‘i, the O‘ahu Bike Plan, and the Honolulu Age-Friendly City Action Plan. ................................................................. 4-3 to 4
130. Revise Exhibit 4-1 Bikeway System to match style and update ................ 4-5
131. Increase safety and comfort for alternative modes of travel ................. 4-6 & 7
132. Implement lane restriping during repaving projects .............................. 4-7
133. Improve sidewalks along Kalaniana‘ole Highway consistent with the Statewide Pedestrian Master Plan ................................................................. 4-7
134. Ensure street furniture is comfortable and does not impede sidewalk movement ........................................................................ 4-7
135. Ensure all lighting is shielded and pointed downward. Any lighting changes should improve night sky visibility while creating safe places ......................... 4-7
136. Discourage gated communities ................................................................................. 4-8
137. Support the Safe Routes to School program ......................................................... 4-8
138. Include more landscaping along roadways to improve aesthetics, and to manage stormwater, sediment, and toxic pollutant runoff .................... 4-8
139. The BWS is scheduled to develop a Watershed Management Plan for East Honolulu .................................................................................. 4-9
140. Projected decreases in rainfall due to climate change will also encourage adaptations ........................................................................... 4-10
141. Require LID standards for redevelopment and incentivize green infrastructure projects to retain stormwater ........................................ 4-11 &15
142. 100 percent renewable portfolio standard by 2045 ........................................ 4-14
143. Antennas history and concerns over health and aesthetics ........................ 4-15
144. Encourage co-location of antennas and reduce visual impacts ............... 4-16
145. The Upper Hawai‘i Kai land was purchased for preservation and protection... 4-17
146. Description of recent flood control projects................................................................. 4-19
147. Create a Watershed Partnership to manage ahupua'a.................................................. 4-19
148. Restore channelized streams, install detention basins, implement LID standards, and plant and maintain vegetation along drainage ways. Drainage ways should also provide passive recreation benefits. ......................... 4-19
149. Remove stormwater as an irregular source of water and man-made vegetated drainageways as the preferred solution to drainage ............................................ 4-19
150. Identify repetitive loss areas from flooding and implement greater restrictions to rebuilding in these areas ................................................................. 4-19
151. Wailupe Valley Elementary School has closed while enrollment at other elementary schools has remained constant or declined ............................................ 4-20
152. Update Table 4-1 and Table 4-2 School Enrollment numbers .................. 4-21 & 22
153. The DOE can collect school impact fees from new residential development to mitigate expenses related to a change of facilities ........................................ 4-22
154. A Satellite City Hall to serve East Honolulu has been established in the Hawai‘i Kai Corporate Plaza .............................................................................................. 4-23
155. There are twelve emergency shelters and refuge centers located in East Honolulu which double as public buildings and parks. Add Table 4-3...... 4-24 & 25
156. Analyze the possible impact of SLR for new public and private projects in shoreline areas and measures to reduce risks and increase resiliency........... 4-24
157. Identify critical public and private infrastructure to protect, adapt, or relocate the highest priority projects ................................................................. 4-25
158. Coordinate and determine how to: Mitigate the anticipated threats from sea level rise, plan for future infrastructure improvements, and maintain existing connections, especially Kalaniana‘ole Highway, where future flooding is anticipated to occur ......................................................... 4-26
159. The DPR should coordinate with the DOE on the development and use of athletic facilities ................................................................................................. 4-26
160. Support the structural design of school buildings, so that these facilities may be used as shelters capable of withstanding Category 3 hurricanes ...... 4-26
161. Supplement the public emergency shelters by identifying private structures that could be used as public shelters meeting FEMA standards ................. 4-26
162. Remove Establish a Satellite City Hall and Maintain Police and Fire/Ambulance Stations and develop an additional substation ........................................ 4-27
CHAPTER 5: PUBLIC FACILITIES AND INFRASTRUCTURE POLICIES AND GUIDELINES

163. Respect the intent and purposes of the agriculture uses as described in Section 2.2.1 and delineated in this Plan ............................................................ 5-2

164. Have adequate required infrastructure in place before or upon completion of the project ........................................................................................................ 5-2

165. Analyze the possible impact of sea level rise for new public and private projects near shoreline areas and incorporate, where appropriate and feasible, measures to reduce risks and increase resiliency to impacts of sea level rise and coastal hazards .................................................................................. 5-2

166. Discussion on the formation of a community-based redevelopment district ..... 5-3

167. Add list of Agencies with functional planning responsibilities .................. 5-4

168. Zone change applications for urban uses outside of the CGB are likely to not be supported by the Director .............................................................................. 5-6

169. Define a significant zone change .................................................................. 5-6 & 7

170. Updated references of regulatory codes and standards .............................. 5-10 & 11

171. In June 2006 the Department of Planning and Permitting initiated a study Development Plans Implementation Program. Revision and updating of the implementation tools was previously a part of the 1999 Plan as well as several other Development Plan areas. This revision and updating will now take place within the study ................................................................. 5-11

172. Add Section 5.7 Implementation Matrix ..................................................... 5-14 to 38

APPENDIX A: CONCEPTUAL MAPS

173. Consistency with other plans, maps are general and conceptual ............... A-1

174. Remove Agriculture Boundary. Description of areas to be consistent with other Development Plan areas ................................................................. A-2 to A-17

175. There have been no State Land Use District boundary amendments in East Honolulu since the publication of the 1999 Plan ........................................ A-3

176. The two changes include the expansion of Niu Valley and the Leolani development near Kamilo Nui Valley, completed after publication of the 1999 Plan .............................................................................................................. A-3 & 4

177. Unsanctioned maintained trails have been removed from the map with the exception of the Mariners Ridge Trail ........................................................................ A-7

178. Elementary schools have been added to the map to demonstrate the multi-purpose uses they may contain ................................................................ A-8 to A-17

179. The Public Facilities Map and corresponding text diff from PIM revisions ...... A-9

180. Revise and update Maps A-1, A-2, and A-3 ............................................... A-13 to 17