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APPENDIX R

WILLIAM M. HICKS PRESENTATION ON
THE HICKS PLAN

Using the Technical Committee's Oahu House Map to Create Aligned Senate & Congressional Districts

Bill Hicks

January 16, 2022

Aligned Oahu Senate Plan & Aligned Oahu Congressional Plan Complies With All Constitutional and HRS Requirements

01/20/2022 Meeting Materials

Constitution Article IV Section 6:

- “...the average number of permanent residents in each district is as nearly equal to the average for the basic island unit as practicable.” YES - Total Deviation 3.73% (Tech Committee Plan 4.93%)
- “...districts shall be contiguous.” YES
- “...districts shall be compact.” YES
- “...district lines shall follow permanent and easily recognized features, such as streets, streams and clear geographical features...” YES – incl. Makapu’u Point (Tech Committee Plan does not for SD 25)
- “...representative districts shall be wholly included within senatorial districts.” YES – ALL of them (Tech Committee Plan only 9 House Districts are; 2 HDs cross 4 SDs, 10 cross 3 SDs, and 13 cross 2 SDs)
- “...submergence of an area in a larger district wherein substantially different socio-economic interests predominate shall be avoided.” YES

Page 27 of 105

Hawaii Revised Statutes Chapter 25 Section 2:

- “...state legislative districts shall be wholly included within congressional districts” YES – ALL House and 16 of 17 Senate with the Aligned Oahu Congressional Plan aligned with House Districts (Technical Committee plans have 6 House & 5 Senate Districts that cross the CD1/CD2 boundary)

Methodology

Start with the Technical Committee's 34 Oahu House Districts first as they were likely constructed with better granularity.

“...representative districts shall be wholly included within senatorial districts”.

- Approach: Join 2 House Districts to form 1 Senate District. There will be greater synergy with every representative only needing to coordinate with one Senator (the Technical Committee's plan was up to 4 Senators) and every Senator only needing to coordinate with 2 Representatives (the Technical Committee's plan was up to 6 Representatives). (Accomplished with Aligned Senate Plan)

“...state legislative districts shall be wholly included within congressional districts.”

- Placing 25 Oahu HDs within CD1 and 9 Oahu HDs within CD2 achieves acceptable population deviation <1%.
- Approach: Place 25 HDs wholly within CD 1 and 9 HDs wholly within CD 2. (Accomplished with Aligned Congressional Plan; note that all HDs & 16 of 17 SDs are wholly within one CD but one SD must straddle the line. The Technical Committee's plan had 6 House and 5 Senate Districts cross CD lines on Oahu.)

Value of Aligning House and Senate Maps

- Reapportionment Commission Chair Mugiishi might even agree with the concept of using Aligned House and Senate Districts from his comments made on December 22, 2021. The context was House District 51, but it is universally applicable. He said “If you have a district that has synergy between the representative getting elected by the same constituency as the senator, you have a much better chance of effecting meaningful change for your community. And so I’m trying to understand why people would object to aligning their Senate map and their House map? I would think that would be a wonderful thing to do.”

Which is Better?

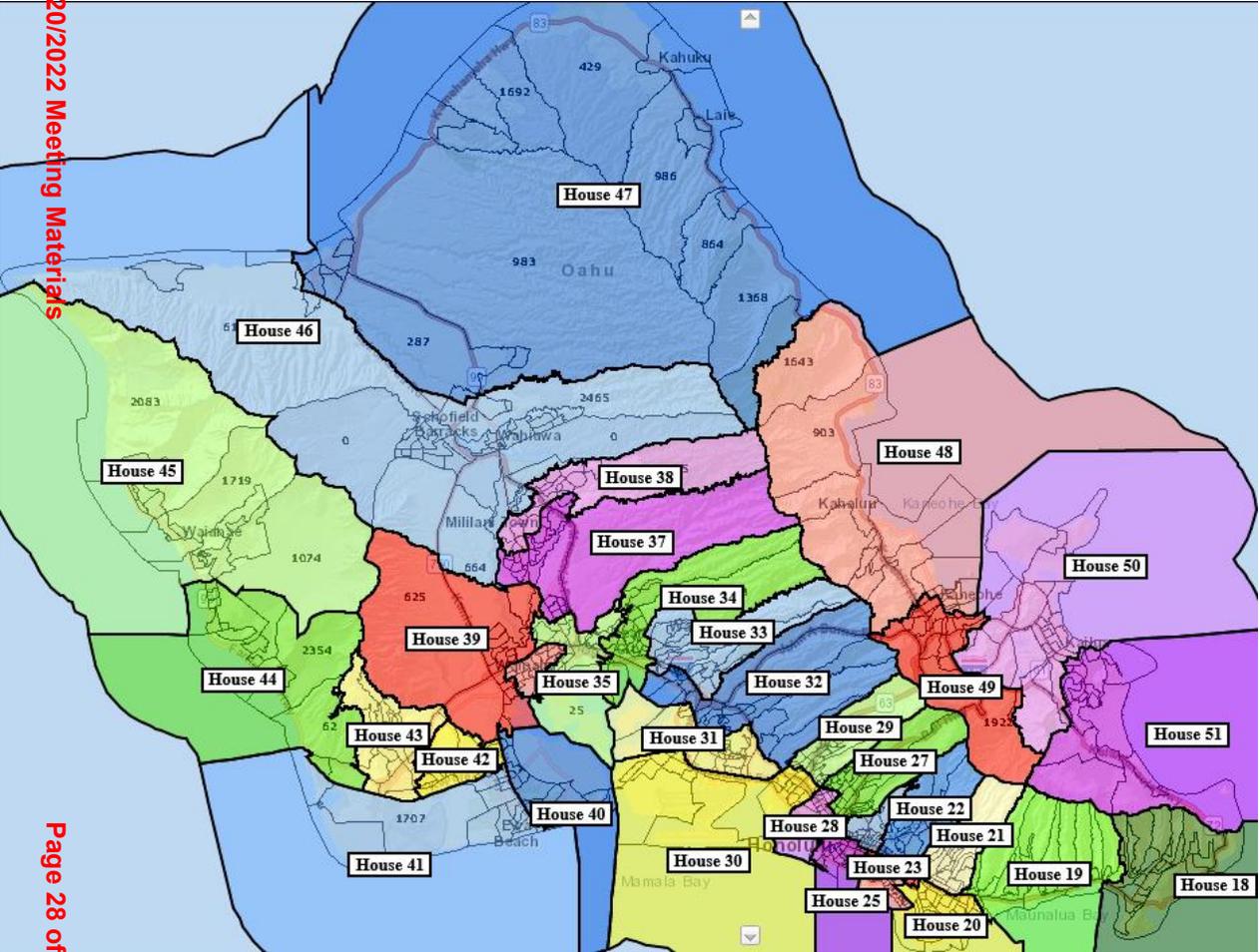
Technical Committee's "Alignment" of House Districts Within a Single Senate District as Practicable							
Senate District	House Districts		Senate District	House Districts		Senate District	House Districts
9	18, 19, 20		15	28, 30, 31, 32, 34, 35		21	39, 41, 42, 43, 44
10	19, 20, 21, 22, 23, 24		16	32, 33, 34		22	41, 44, 45
11	22, 23, 25, 26, 27		17	37, 38, 46		23	46, 47, 48, 49
12	23, 24, 25, 28		18	35, 36, 37, 38, 39, 46		24	48, 49, 50
13	25, 26, 27, 28		19	34, 35, 36, 39, 42		25	18, 49, 50, 51
14	27, 28, 29, 30, 32		20	39, 40, 41, 42			

Aligned Senate Plan's Alignment of House Districts Within a Single Senate District							
Senate District	House Districts		Senate District	House Districts		Senate District	House Districts
9	18, 19		15	25, 28		21	42, 43
10	20, 21		16	30, 31		22	44, 45
11	22, 26		17	34, 35		23	46, 47
12	23, 24		18	37, 38		24	48, 49
13	27, 29		19	36, 39		25	50, 51
14	32, 33		20	40, 41			

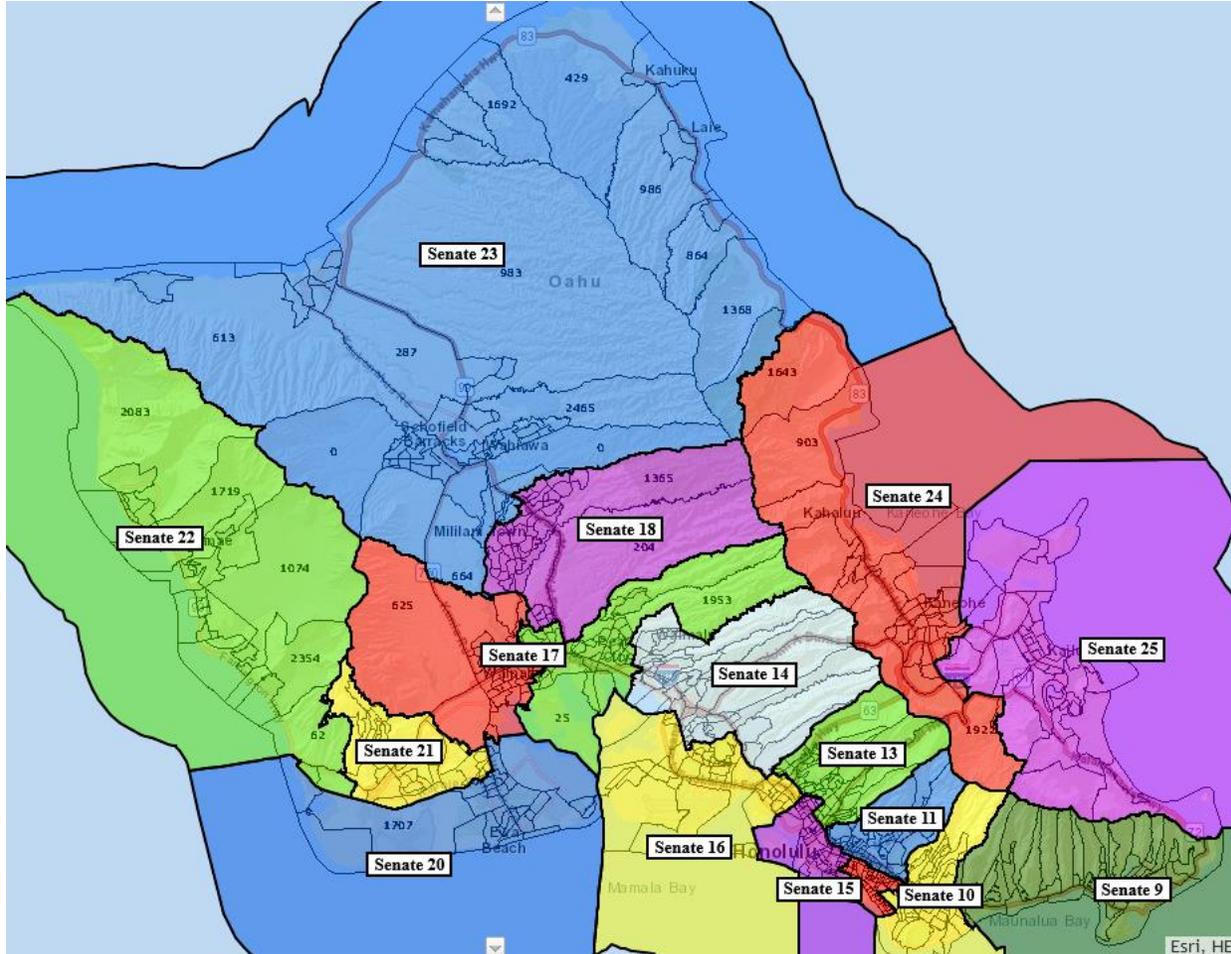
Each Senate District Consists of Exactly 2 House Districts

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Page 28 of 105



34 House Districts (Technical Committee)



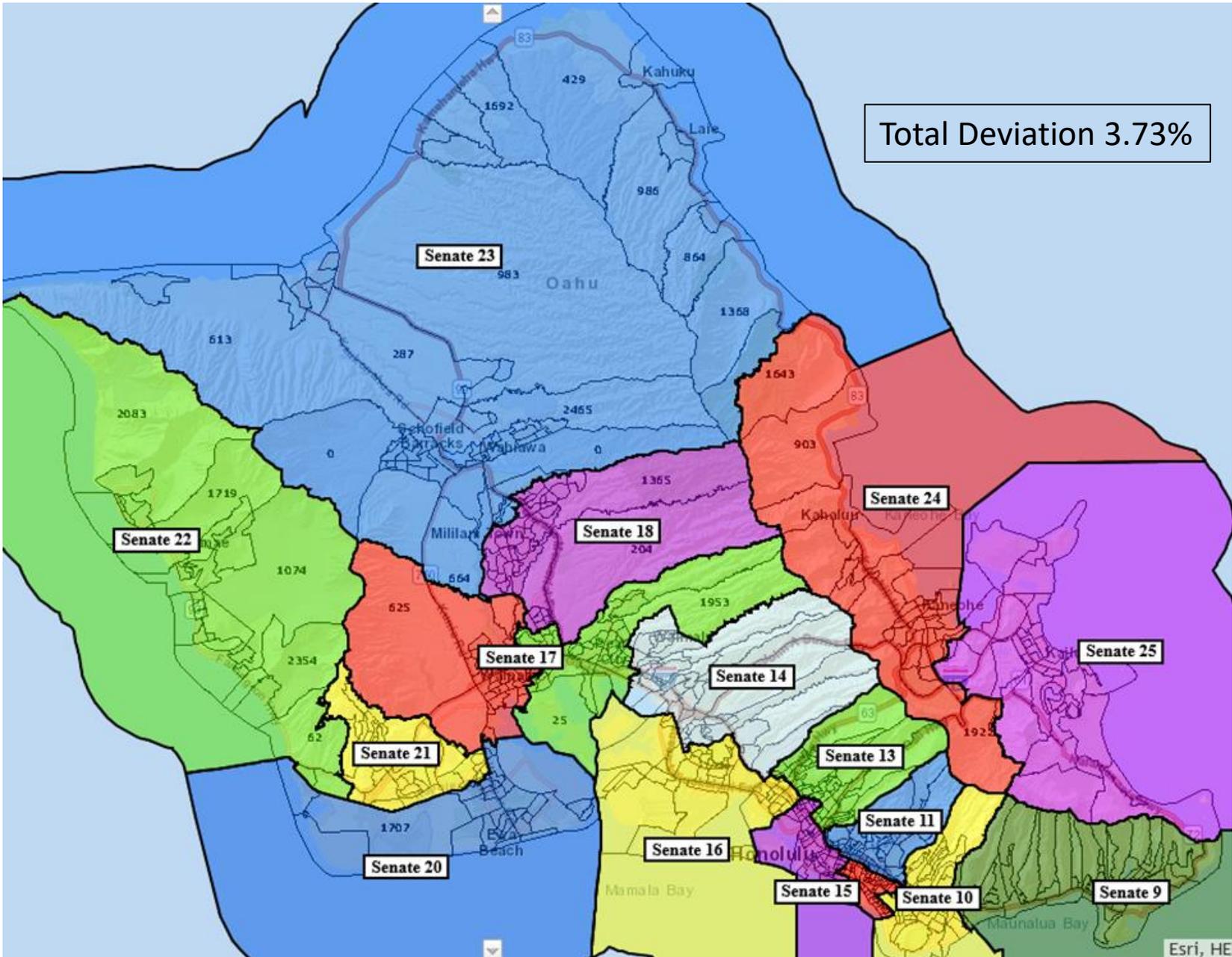
17 Aligned Senate Districts

Aligned Senate Plan (w/Technical Committee House Map)

“...representative districts shall be wholly included within senatorial districts”

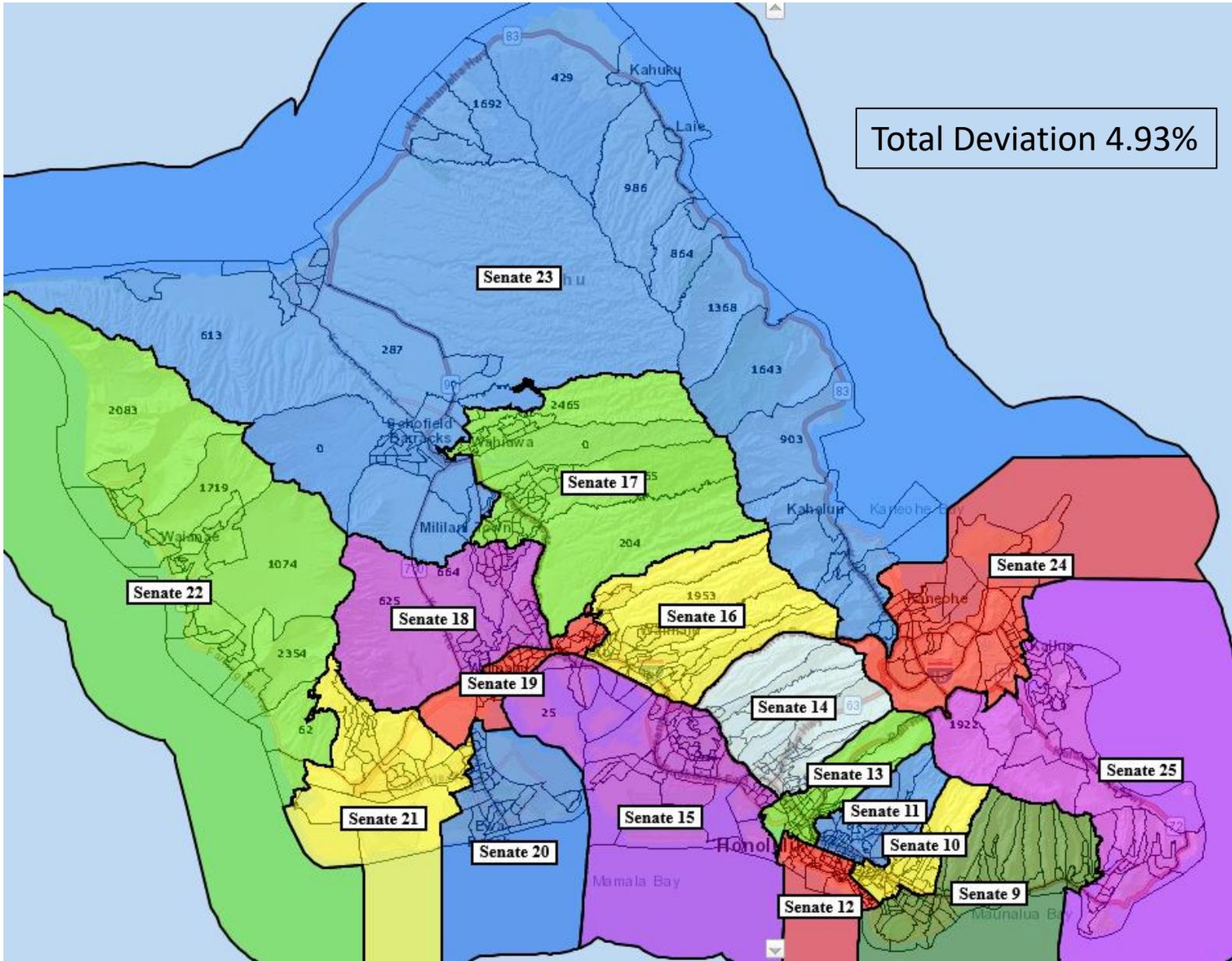
Hawaii Constitution Article IV Section 6

- Aligned Plan: **ALL** 34 House Districts are contained within 1 Senate District
 - Uses Technical Committee’s House Plan & forms Senate Districts from 2 House Districts
- Technical Committee’s Senate Plan:
 - **Only 9 House Districts are contained within 1 Senate District**
 - 13 House Districts are contained within **2 Senate Districts**
 - 10 House Districts are contained within **3 Senate Districts**
 - 2 House Districts are contained within **4 Senate Districts**
 - **No Senate District contains only 2 House Districts; there could’ve been 17 of these**
 - 3 Senate Districts each cross 6 House Districts; another 4 cross 5; and 5 cross 4
 - Even on Maui (3 Senate/6 House) and the Big Island (4 Senate/8 House) no Senate District contains only 2 House Districts



Aligned Senate Plan w/TC's House Map

SD	Deviation	%
9	- 132	-0.25%
10	- 391	-0.73%
11	84	0.16%
12	- 146	-0.27%
13	699	1.31%
14	158	0.29%
15	343	0.64%
16	347	0.65%
17	404	0.75%
18	204	0.38%
19	461	0.86%
20	319	0.60%
21	- 762	-1.42%
22	712	1.33%
23	80	0.15%
24	-1096	-2.05%
25	-1283	-2.40%



Technical Committee Plan

SD	Deviation	%
9	- 590	-1.10%
10	55	0.10%
11	53	0.10%
12	258	0.48%
13	998	1.86%
14	1302	2.43%
15	1197	2.23%
16	811	1.51%
17	-1211	-2.26%
18	-1271	-2.37%
19	1104	2.06%
20	848	1.58%
21	1172	2.19%
22	-1122	-2.09%
23	-1087	-2.03%
24	-1340	-2.50%
25	-1176	-2.20%

Technical Committee's Oahu Senate Plan

Oahu Senate Differences

	Aligned Plan	Technical Committee
Total Deviation	3.73%	4.93%
Makapu'u Point	Yes	No
HD w/i 1 SD	Yes	No
HD w/i 1 CD	Yes	No

East Honolulu: Aligned uses Makapu'u Point; TC doesn't

Downtown

Central Oahu

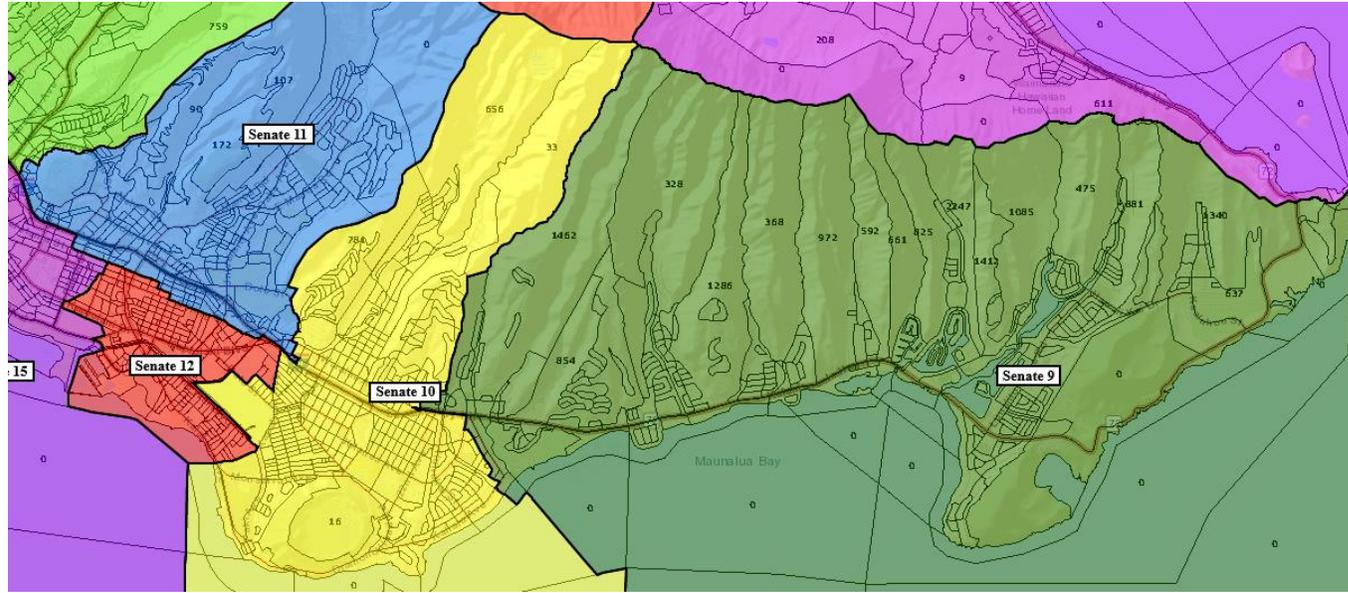
Leeward Oahu

North Shore

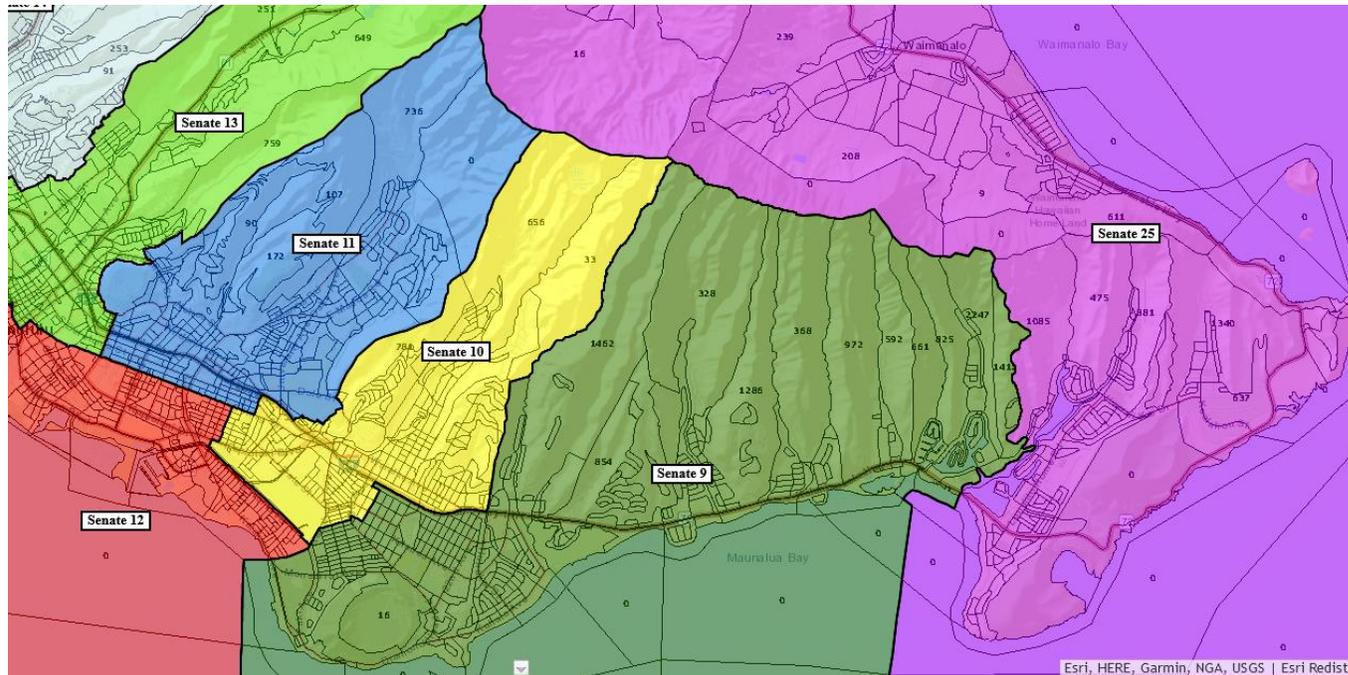
Windward Oahu: Aligned uses Makapu'u Point; TC doesn't

East Honolulu Overview

Aligned Plan
(w/TC House Map)

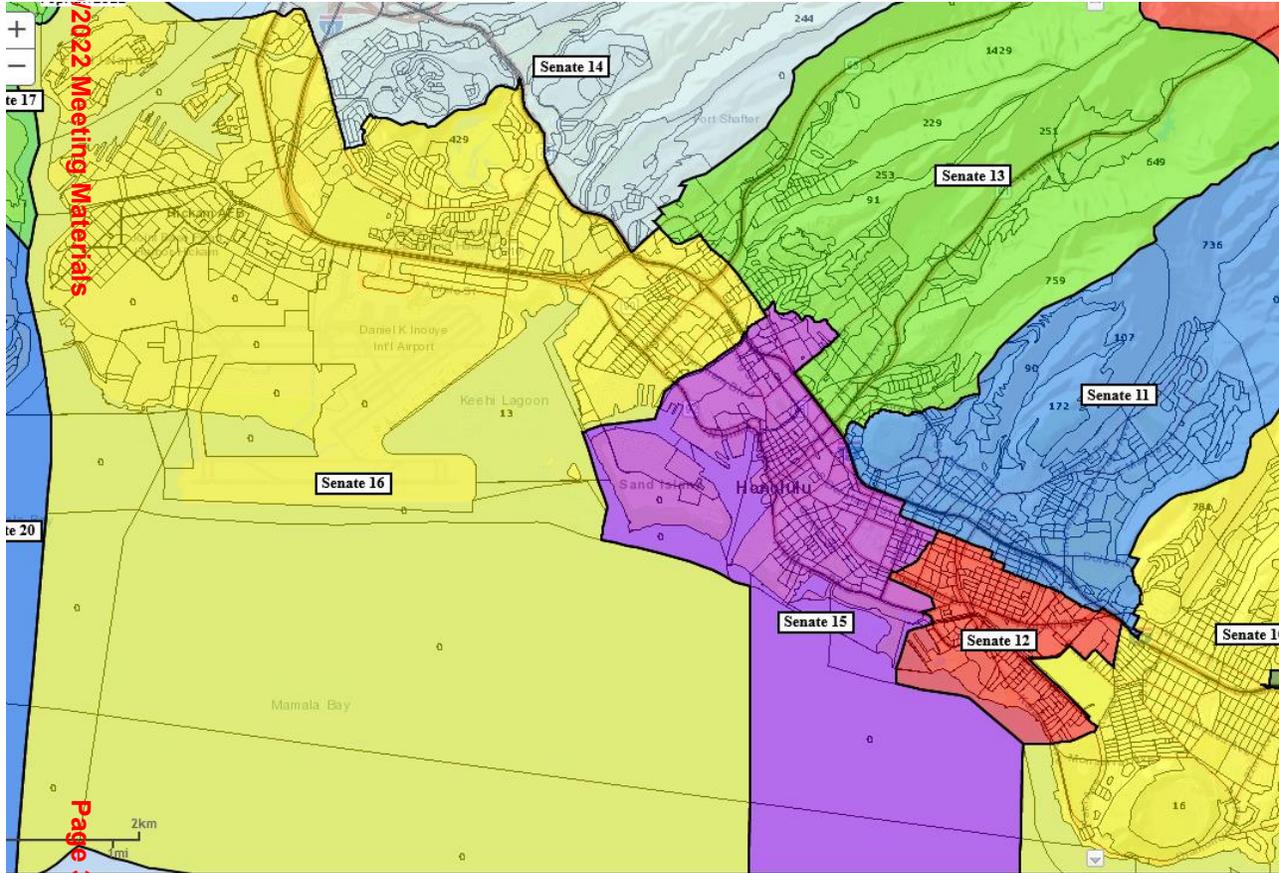


Technical
Committee Plan

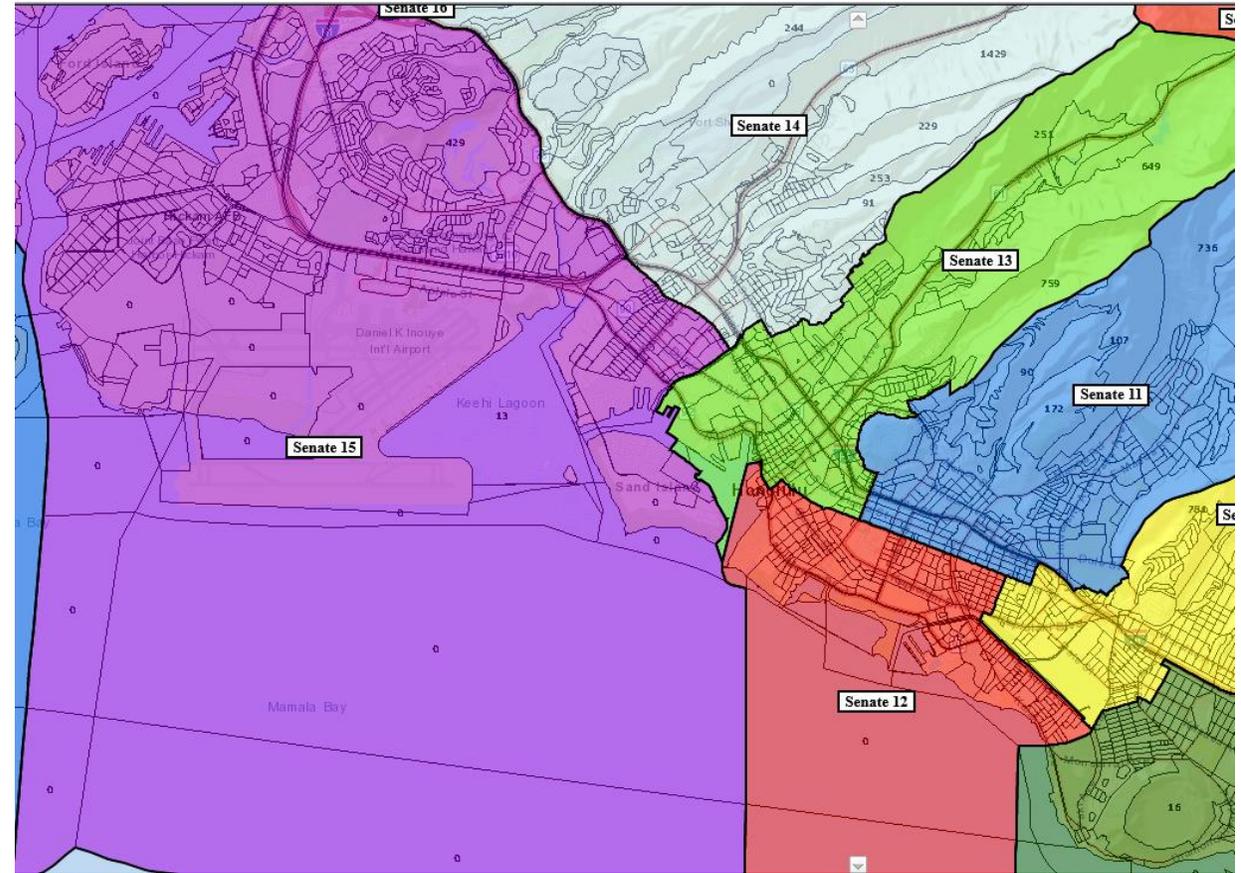


Downtown Overview

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Aligned Plan (w/TC House Map)

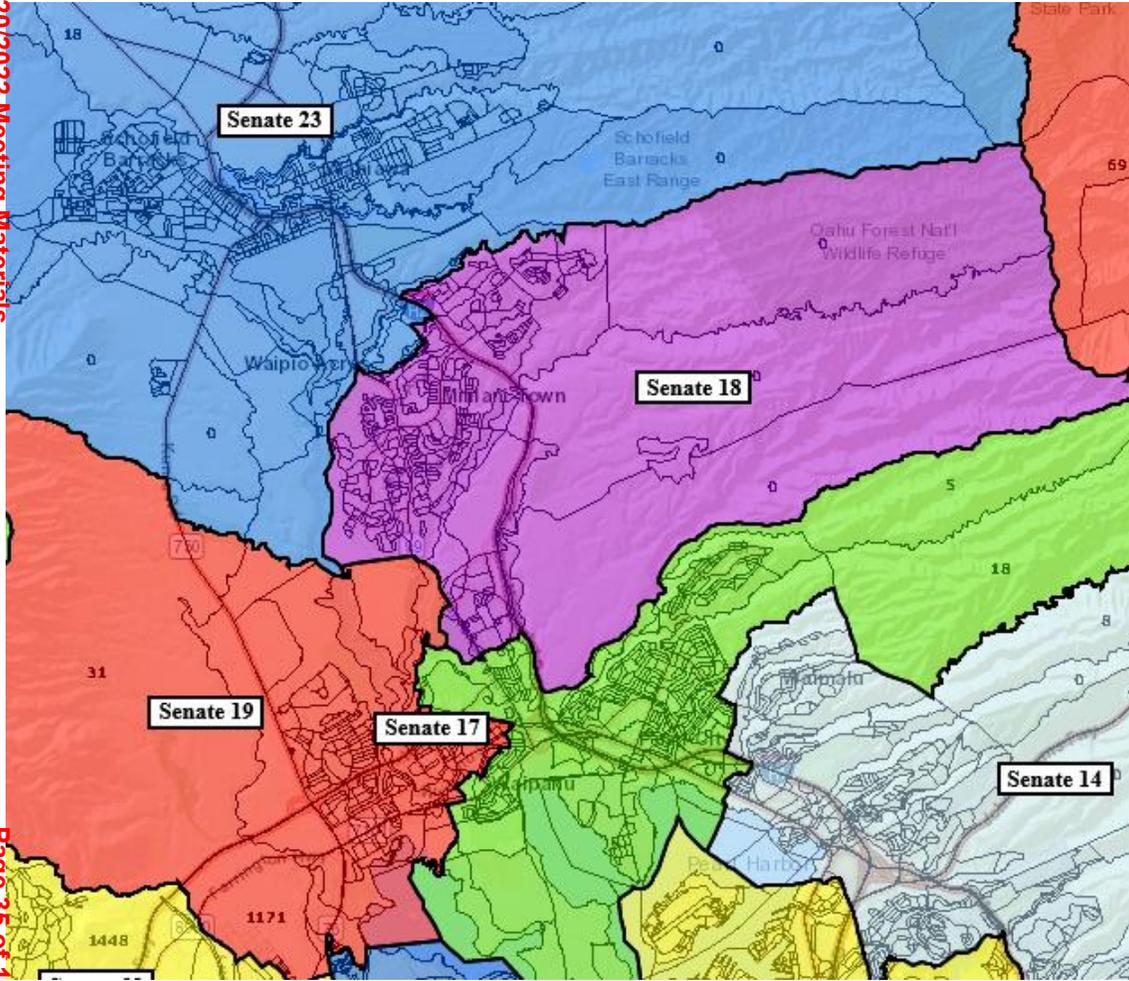


Technical Committee Plan

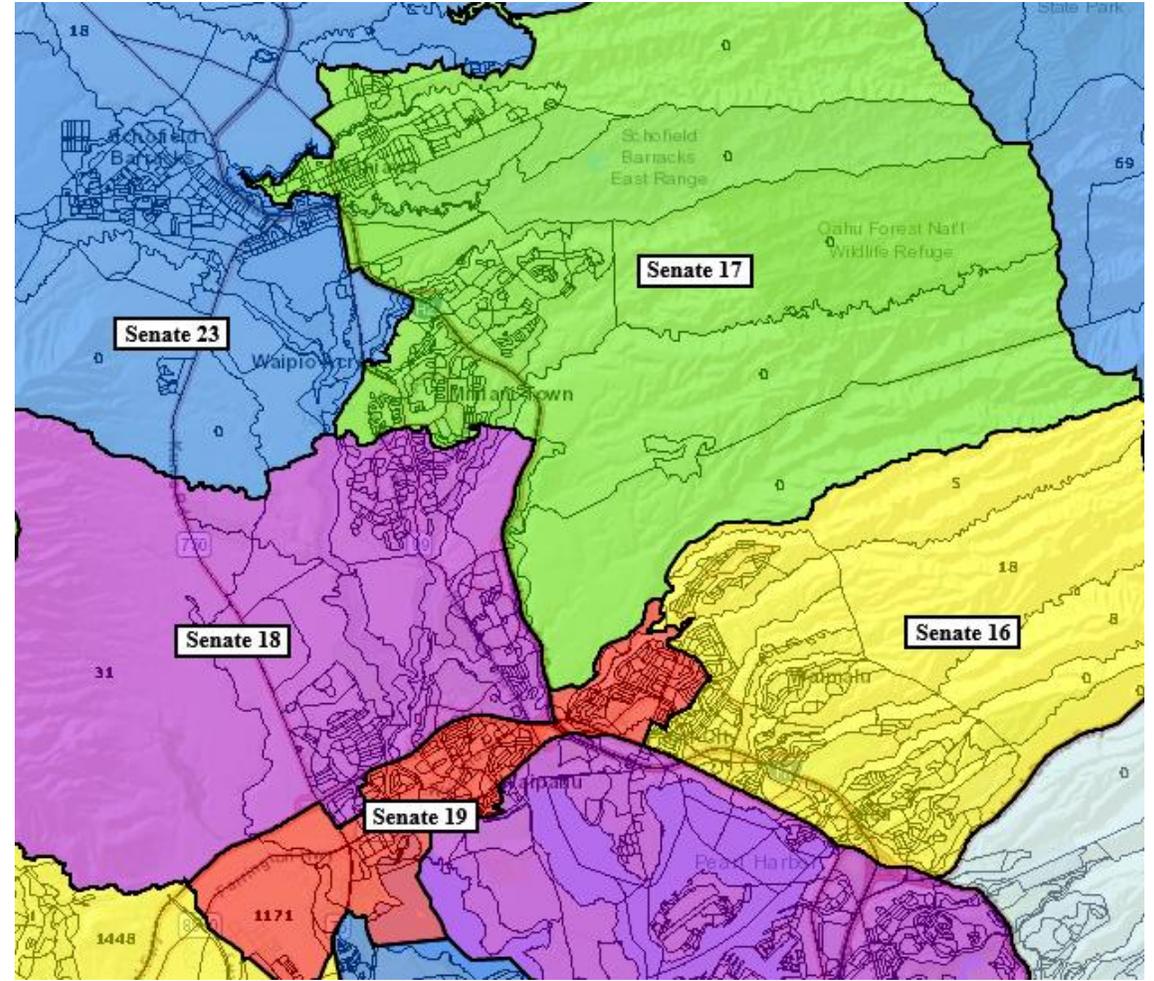
Central Oahu Overview

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Page 35 of 105

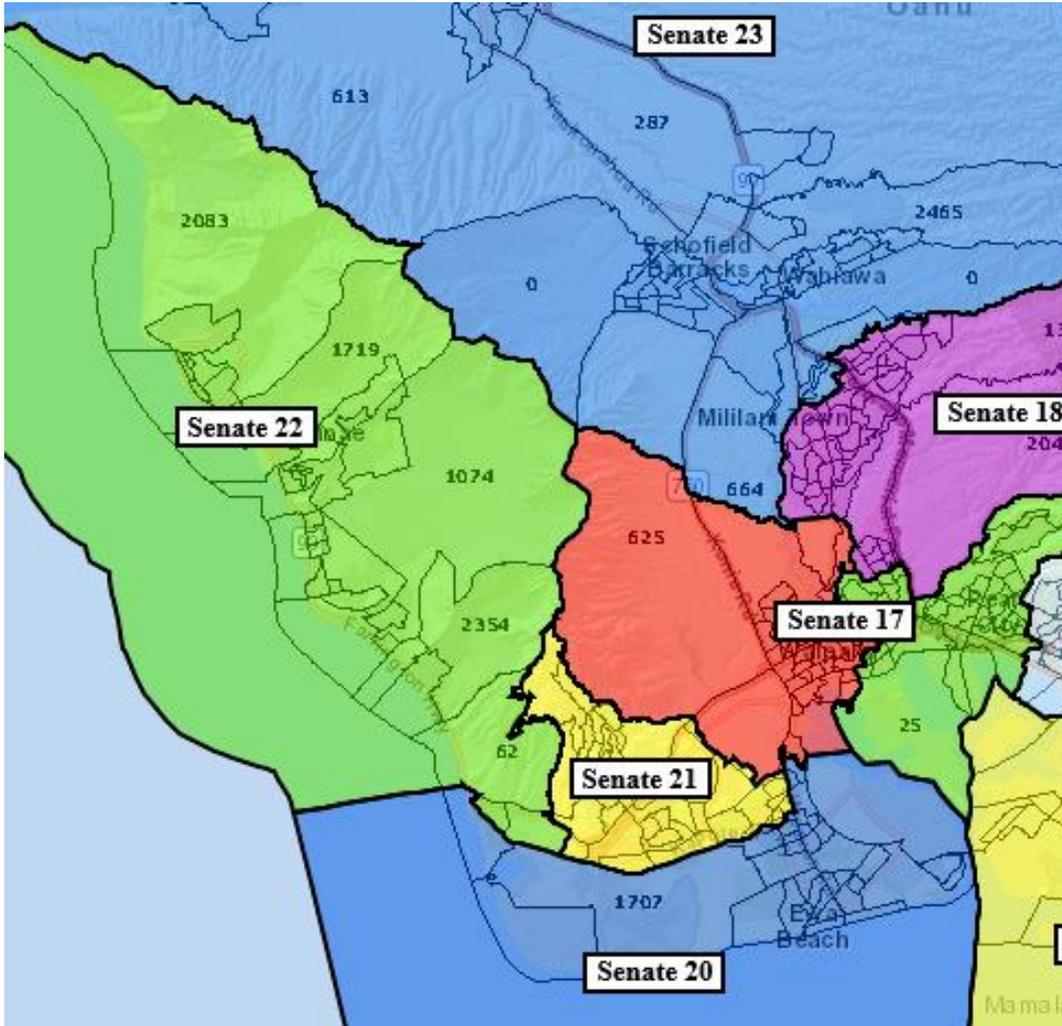


Aligned Plan (w/TC House Map)

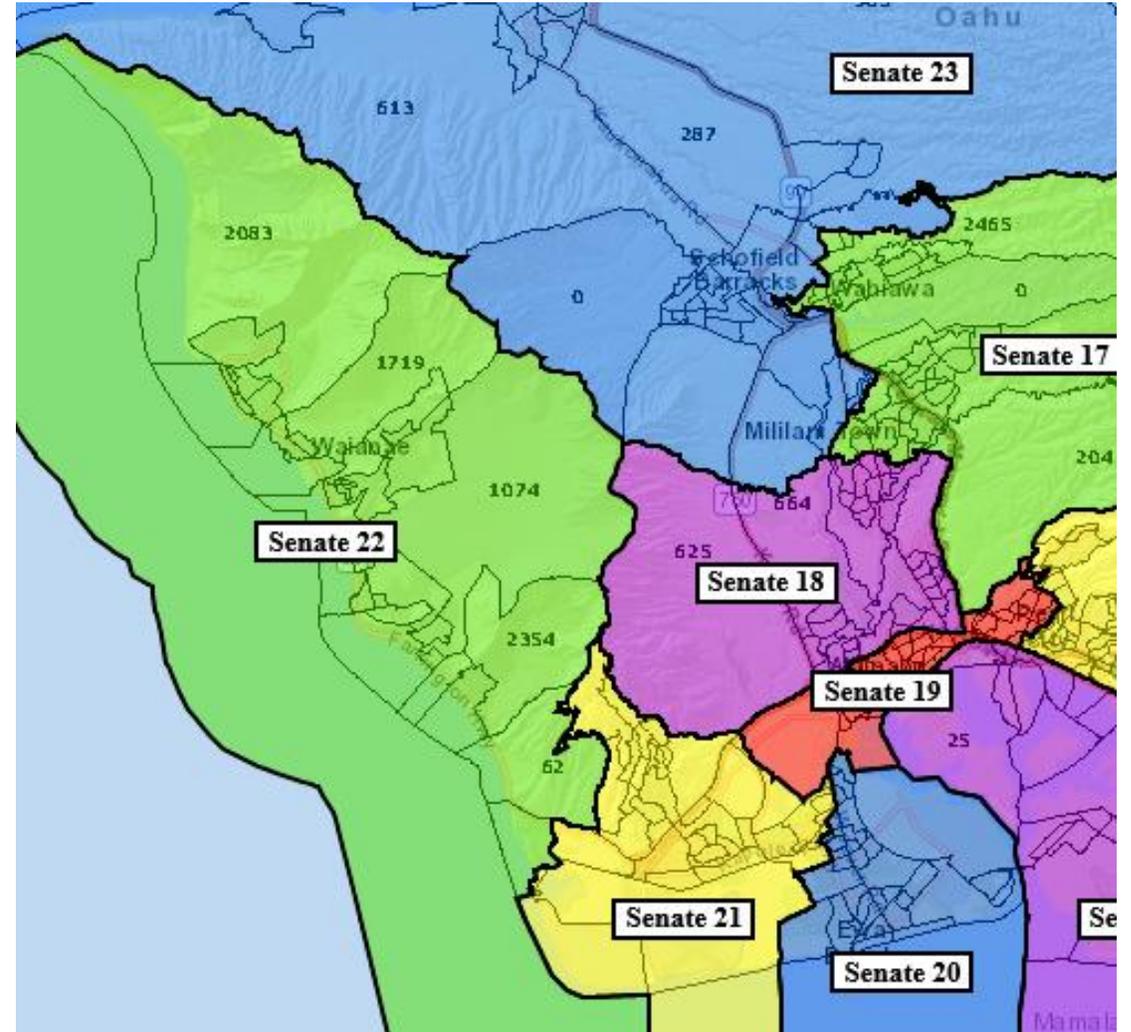


Technical Committee Plan

Leeward Oahu Overview

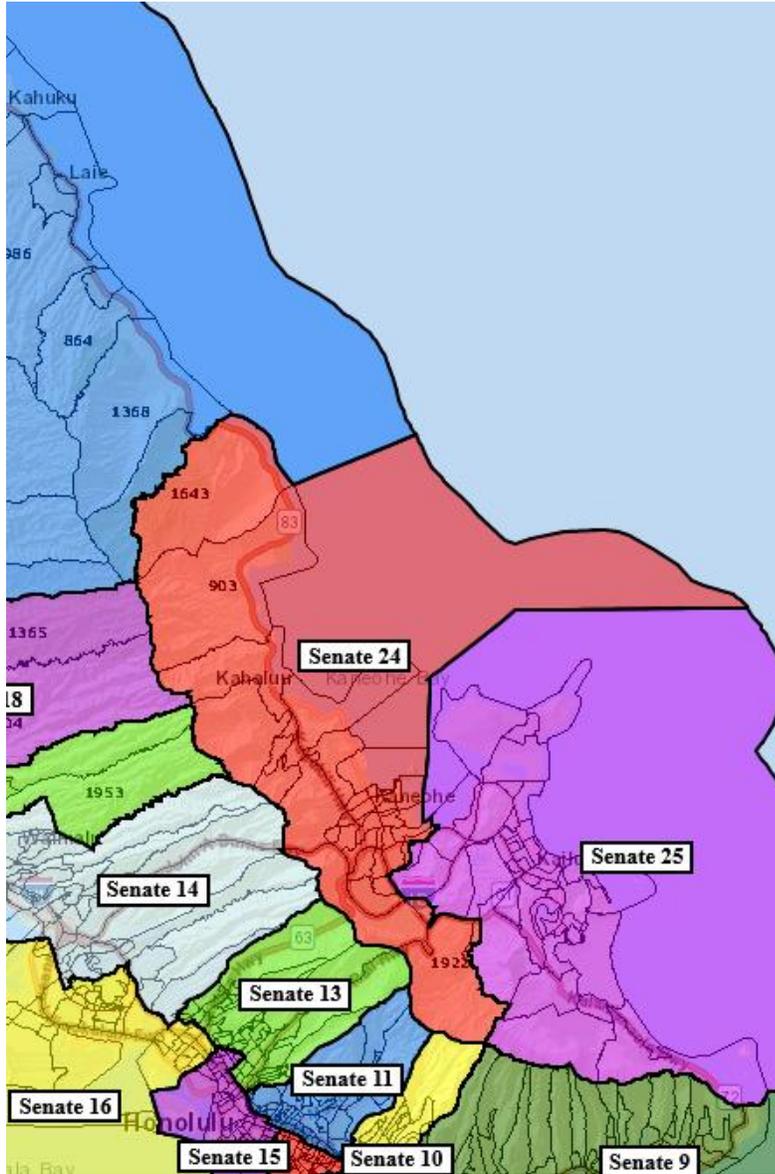


Aligned Plan (w/TC House Map)

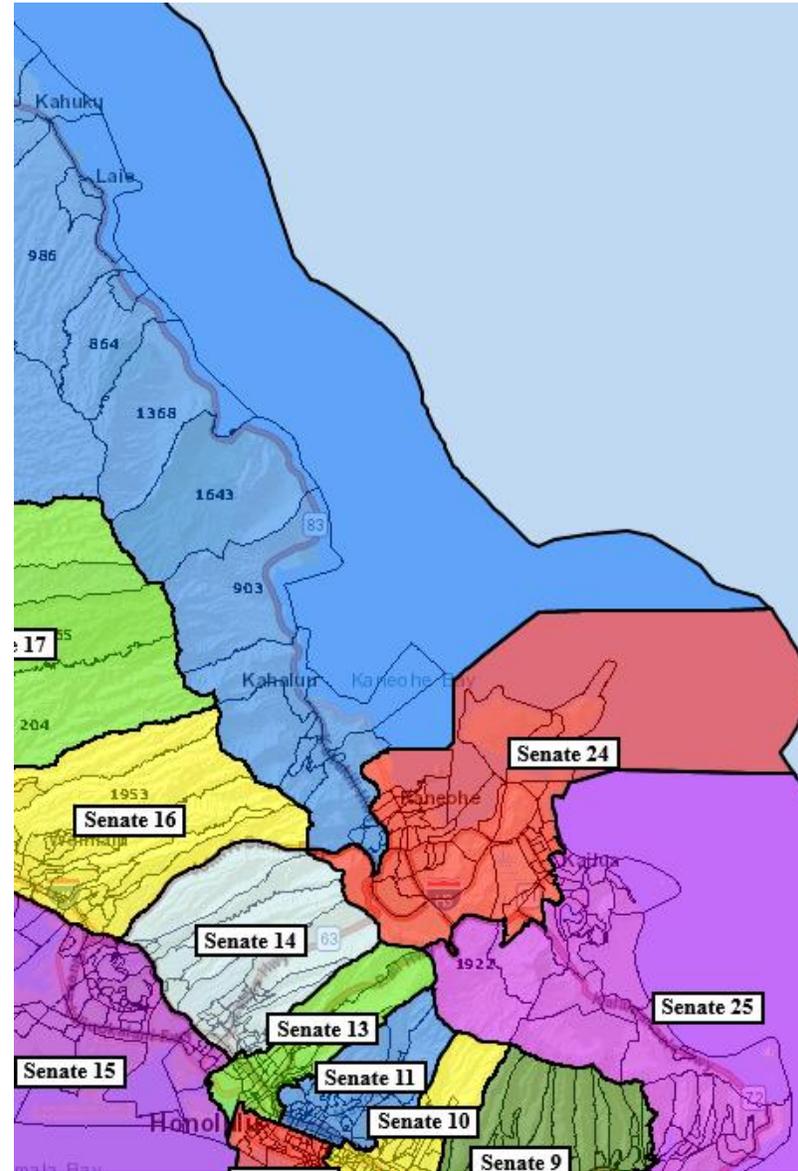


Technical Committee Plan

Windward Oahu Overview



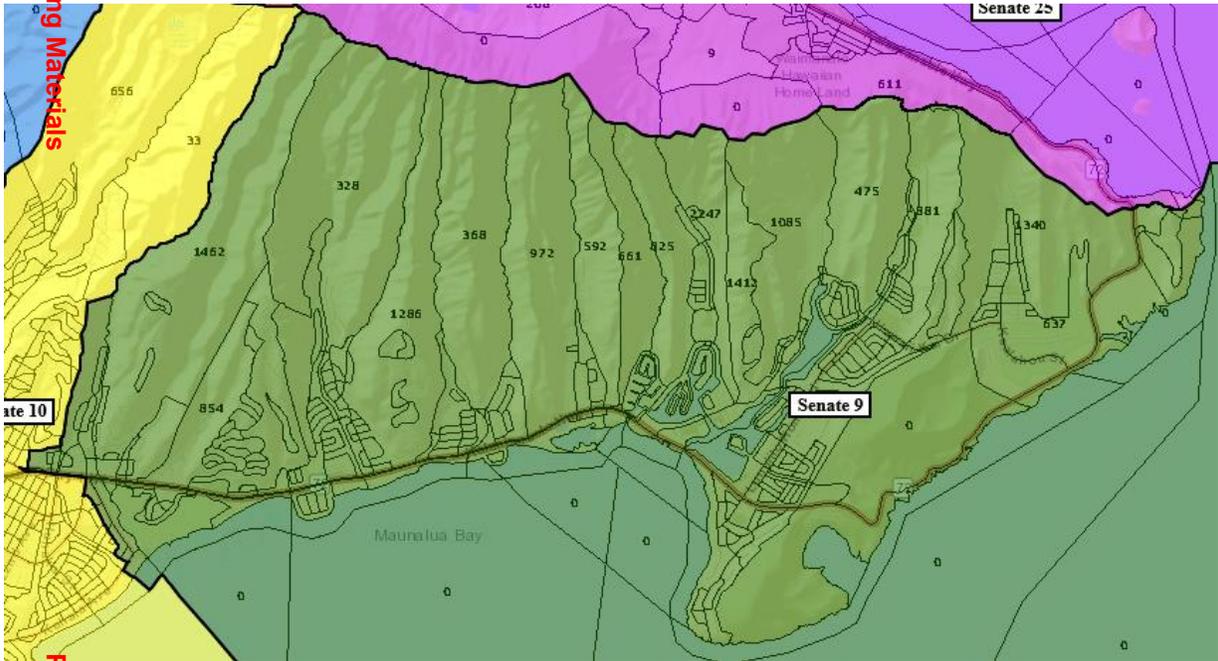
Aligned Plan (w/TC House Map)



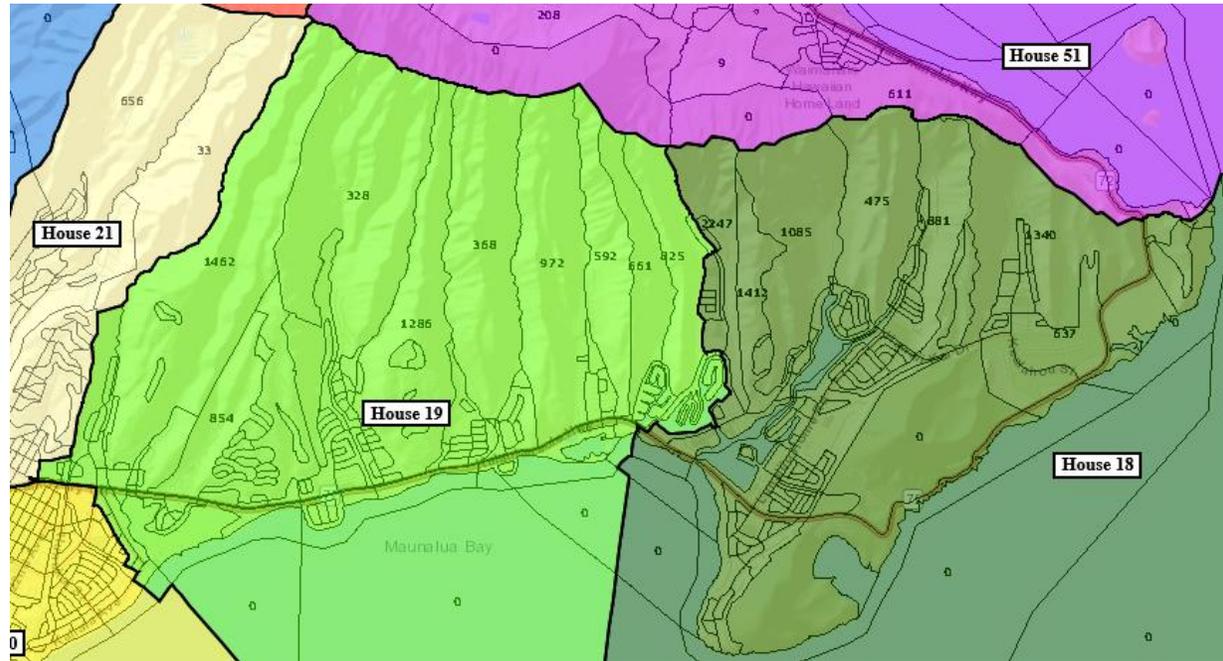
Technical Committee Plan

Senate District 9

Exactly Aligned with TCs House Districts 18 & 19



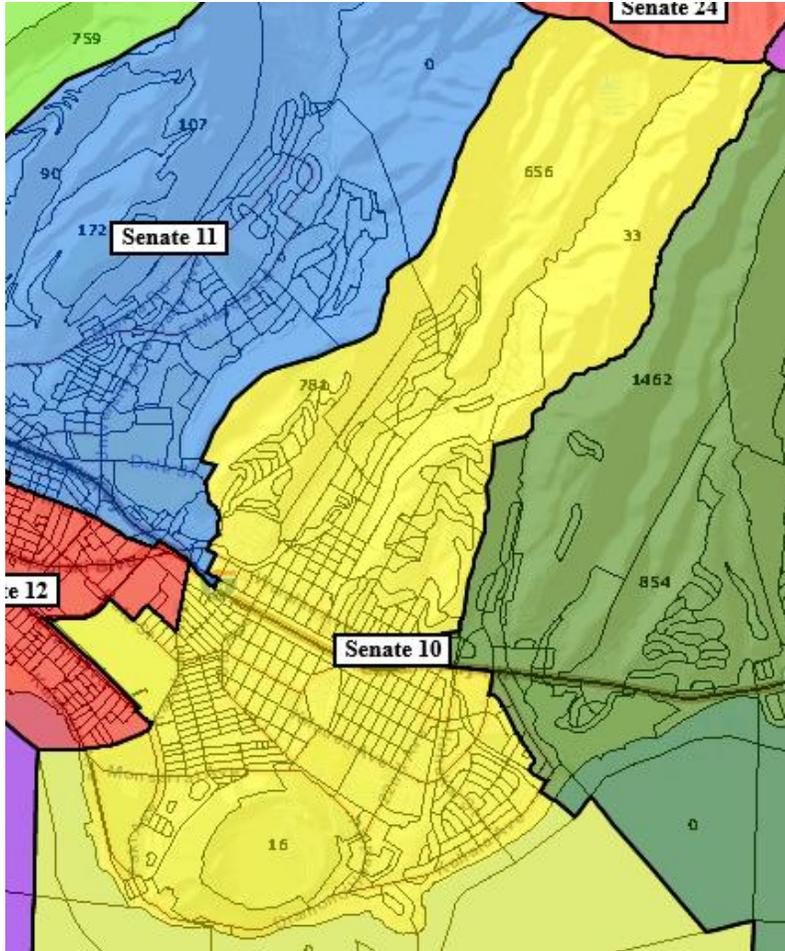
Aligned Senate Plan



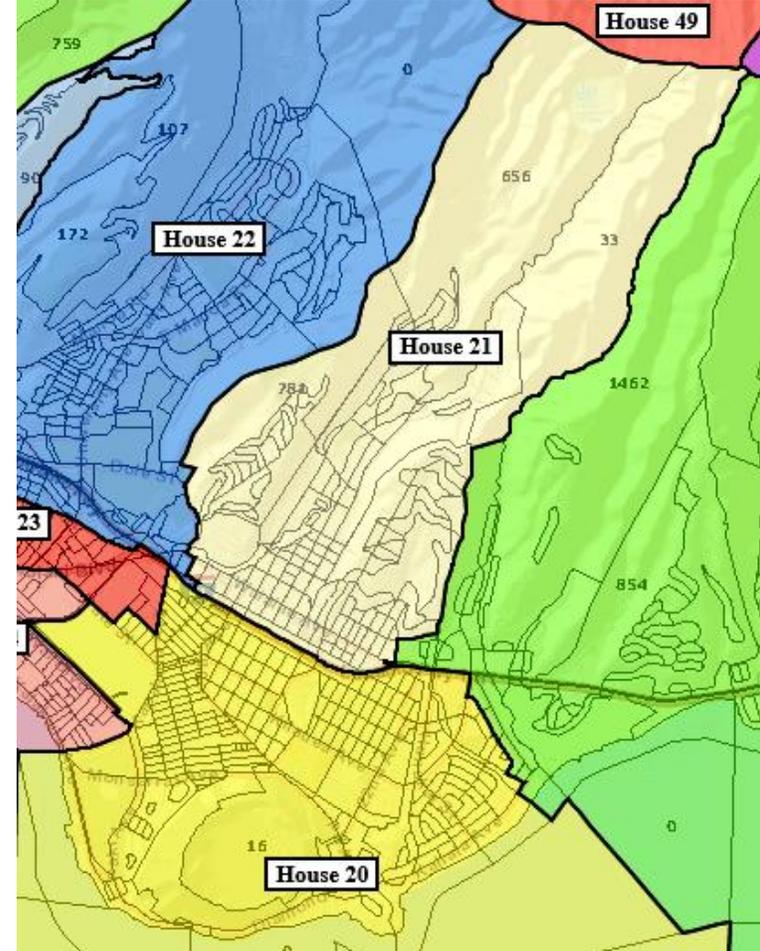
Technical Committee's House Map

Senate District 10

Exactly Aligned with TCs House Districts 20 & 21



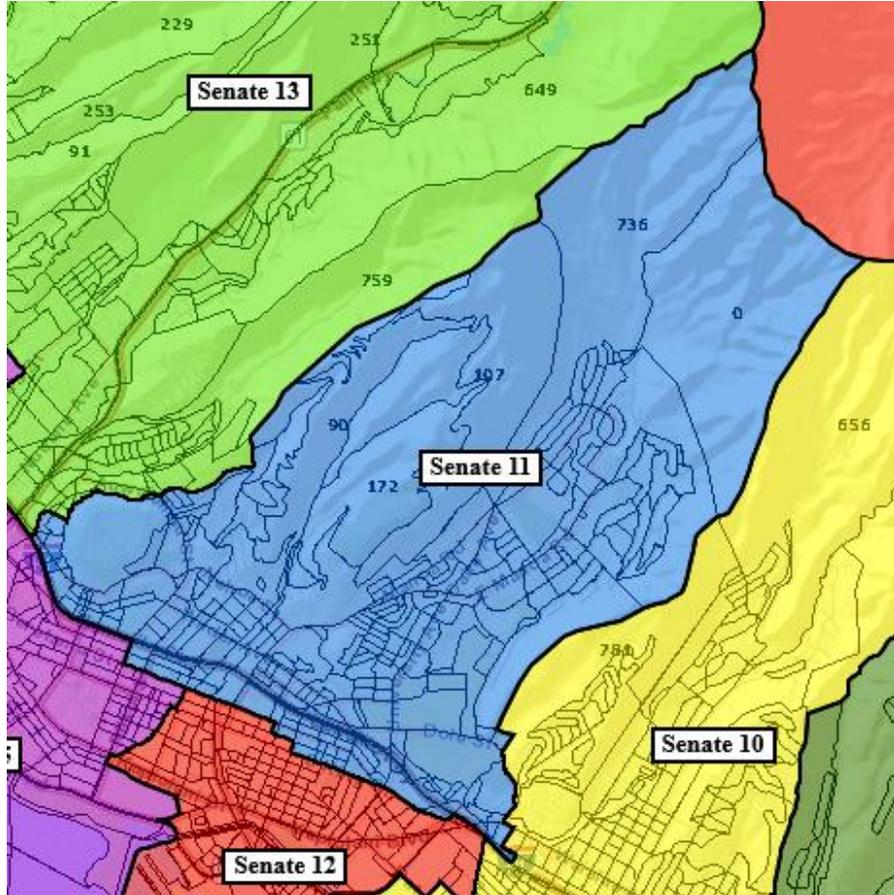
Aligned Senate Plan



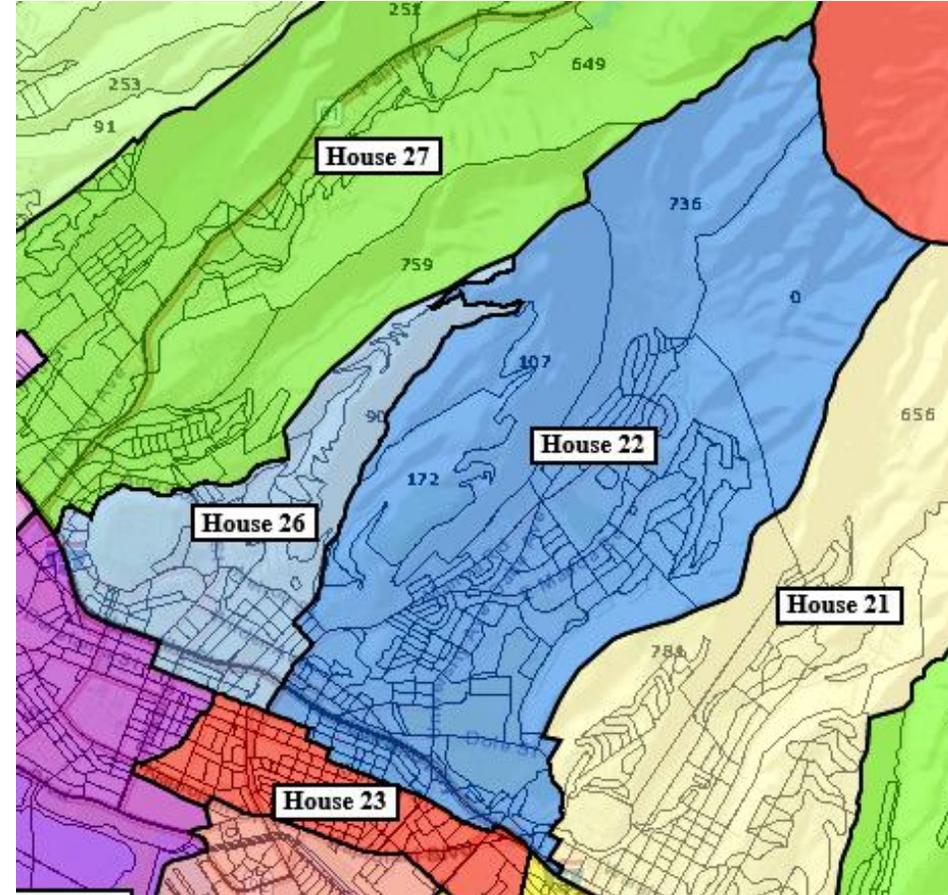
Technical Committee's House Map

Senate District 11

Exactly Aligned with TCs House Districts 22 & 26



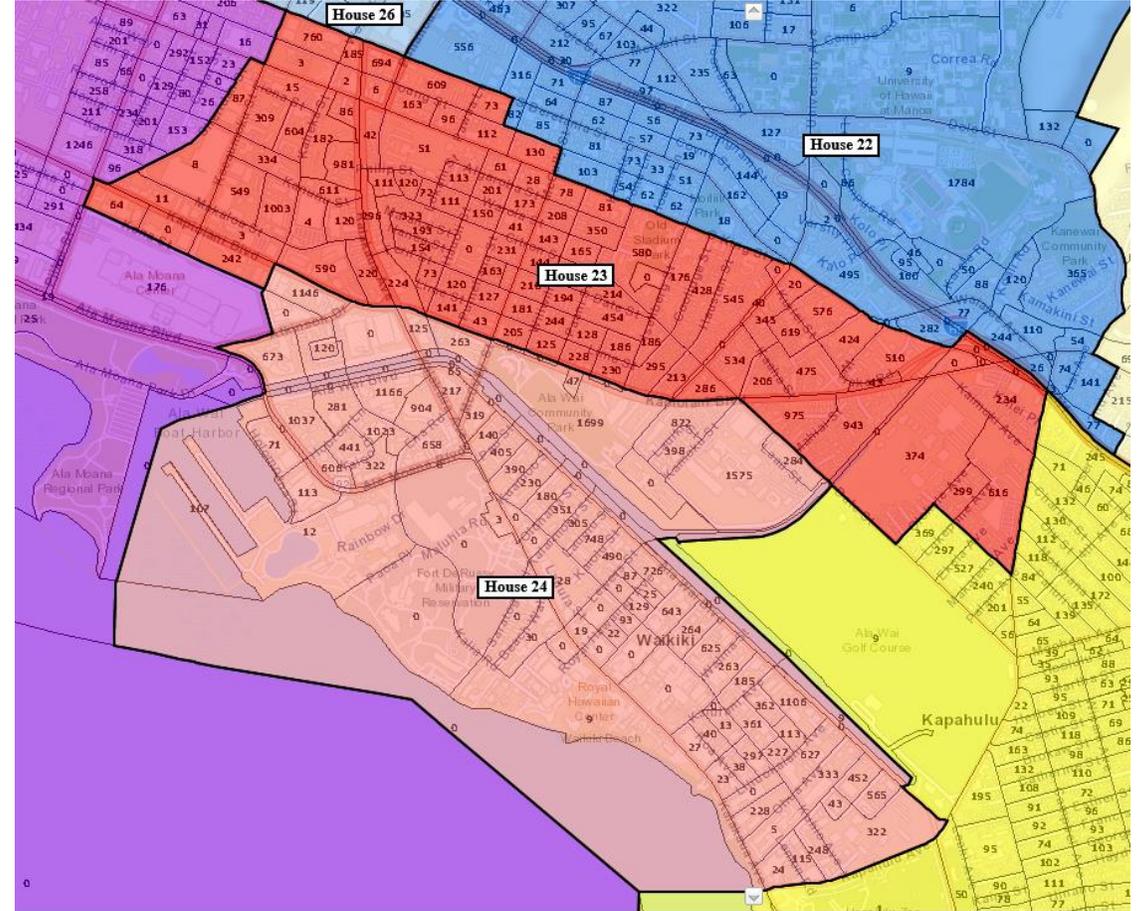
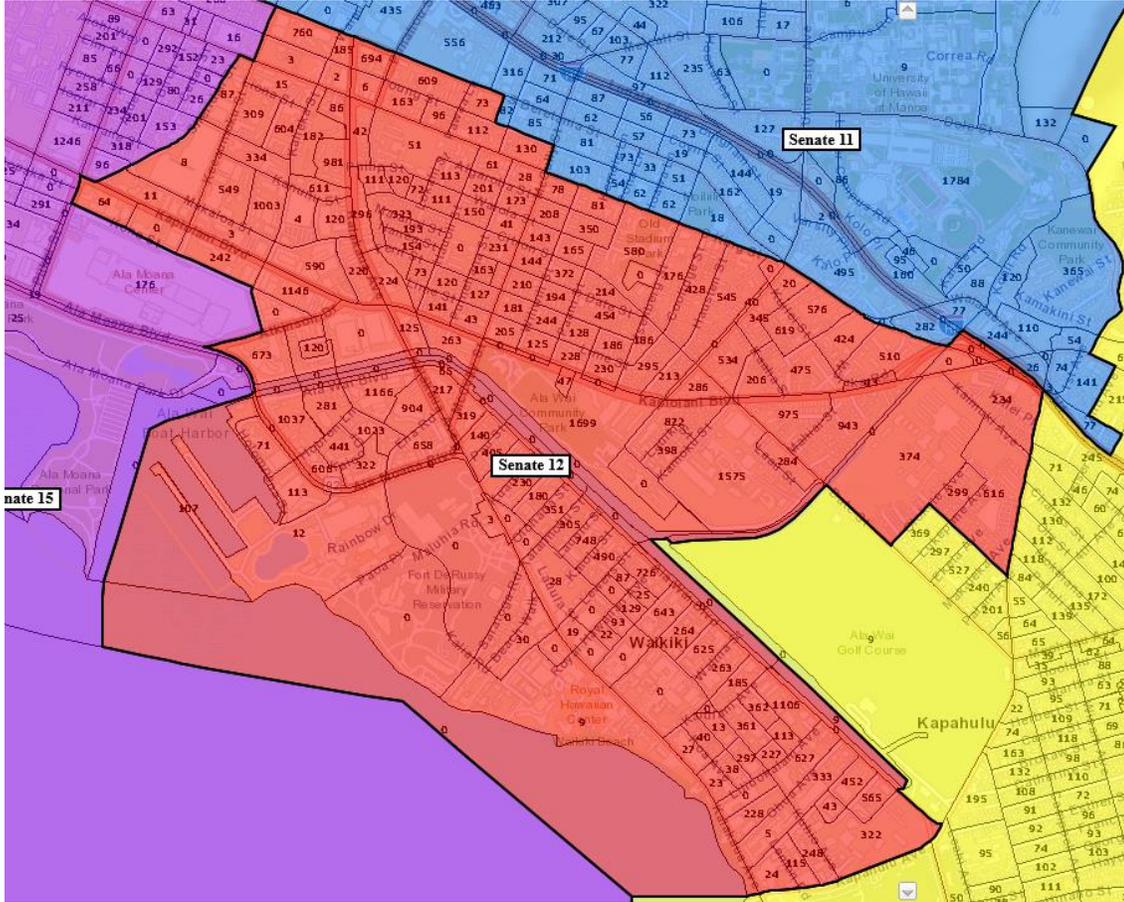
Aligned Senate Plan



Technical Committee's House Map

Senate District 12

Exactly Aligned with TCs House Districts 23 & 24

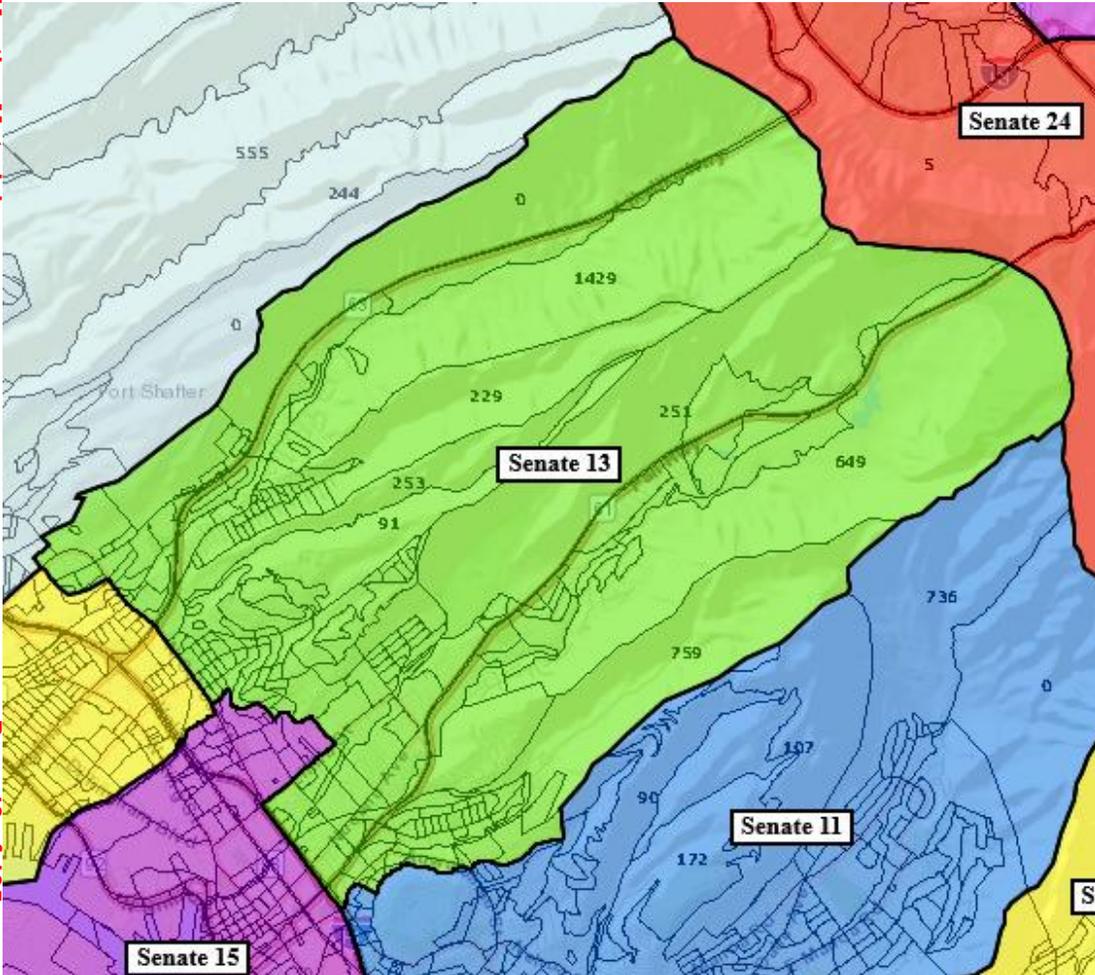


Aligned Senate Plan

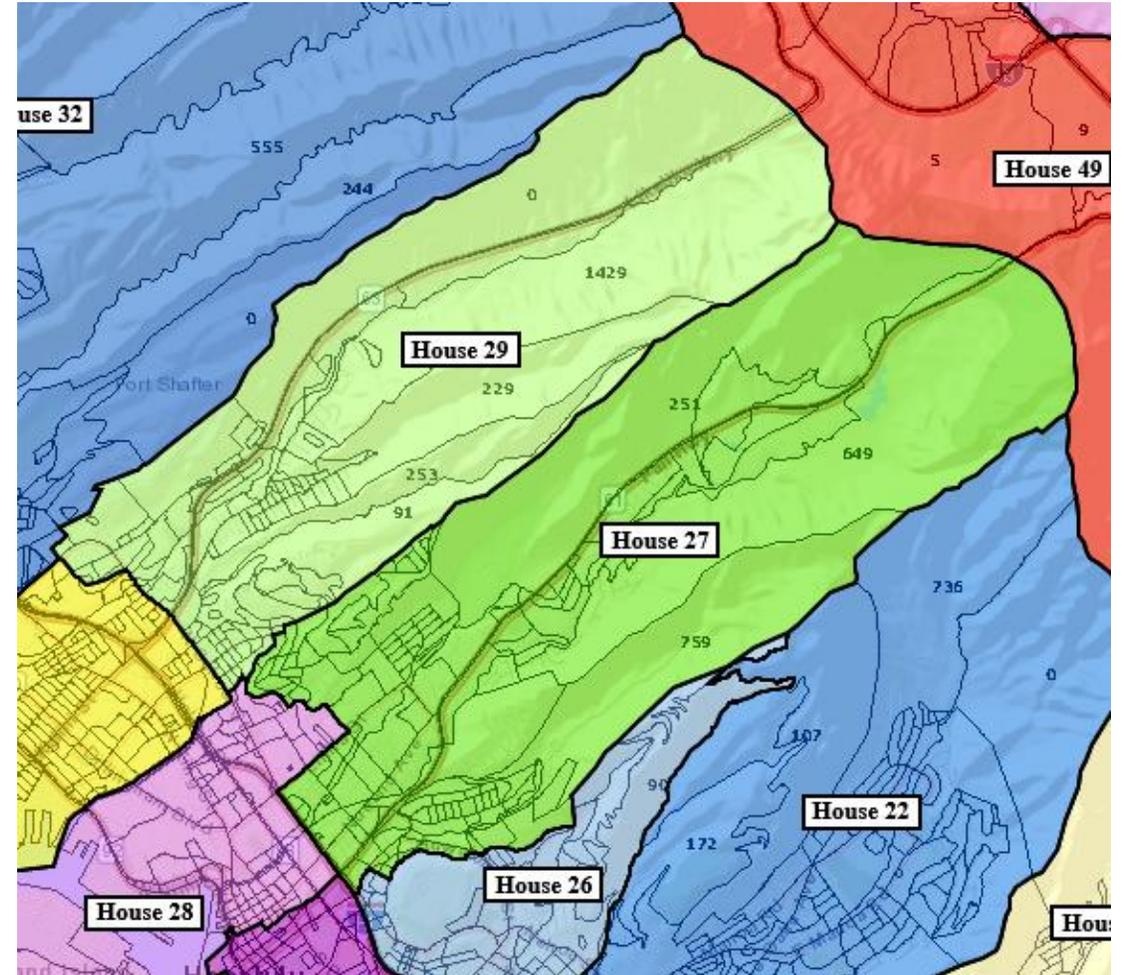
Technical Committee's House Map

Senate District 13

Exactly Aligned with TCs House Districts 27 & 29



Aligned Senate Plan

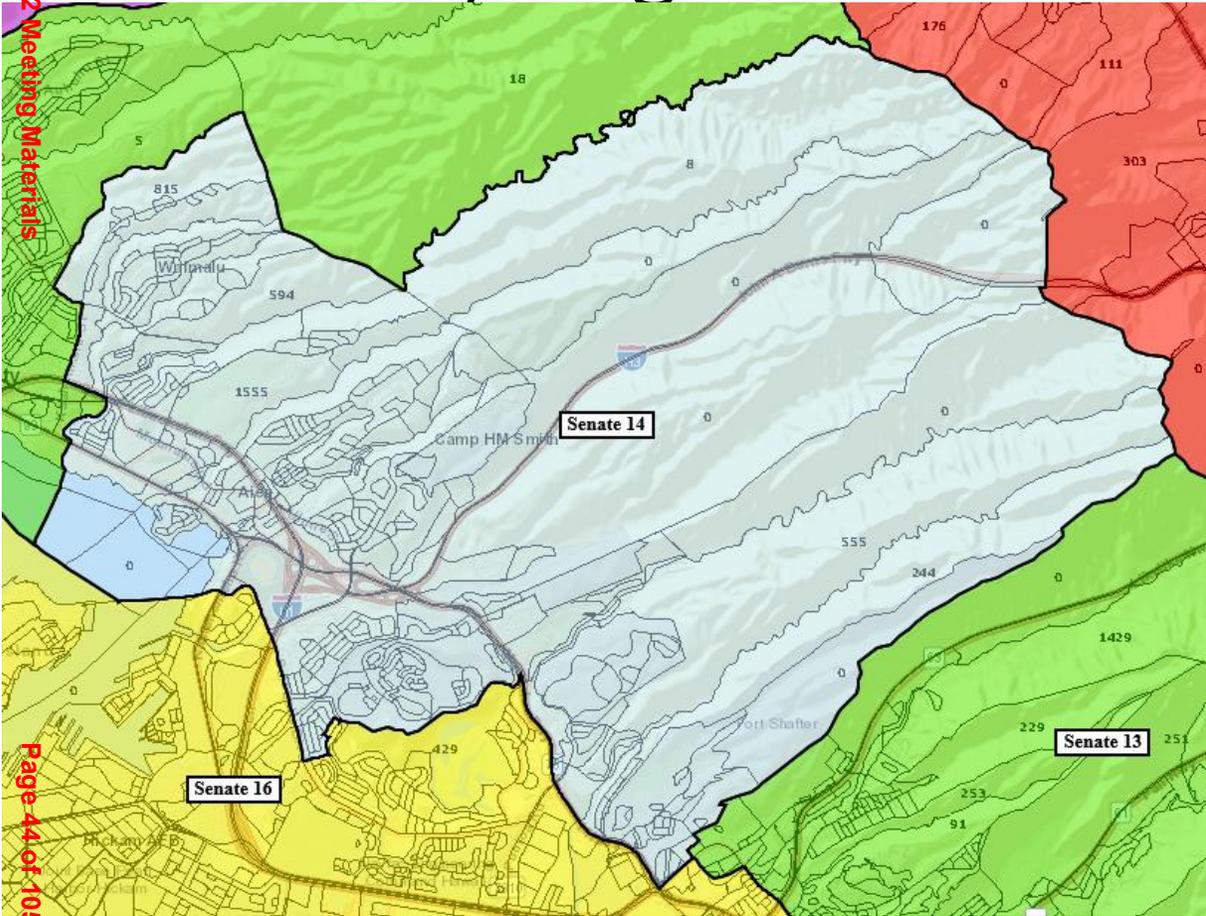


Technical Committee's House Map

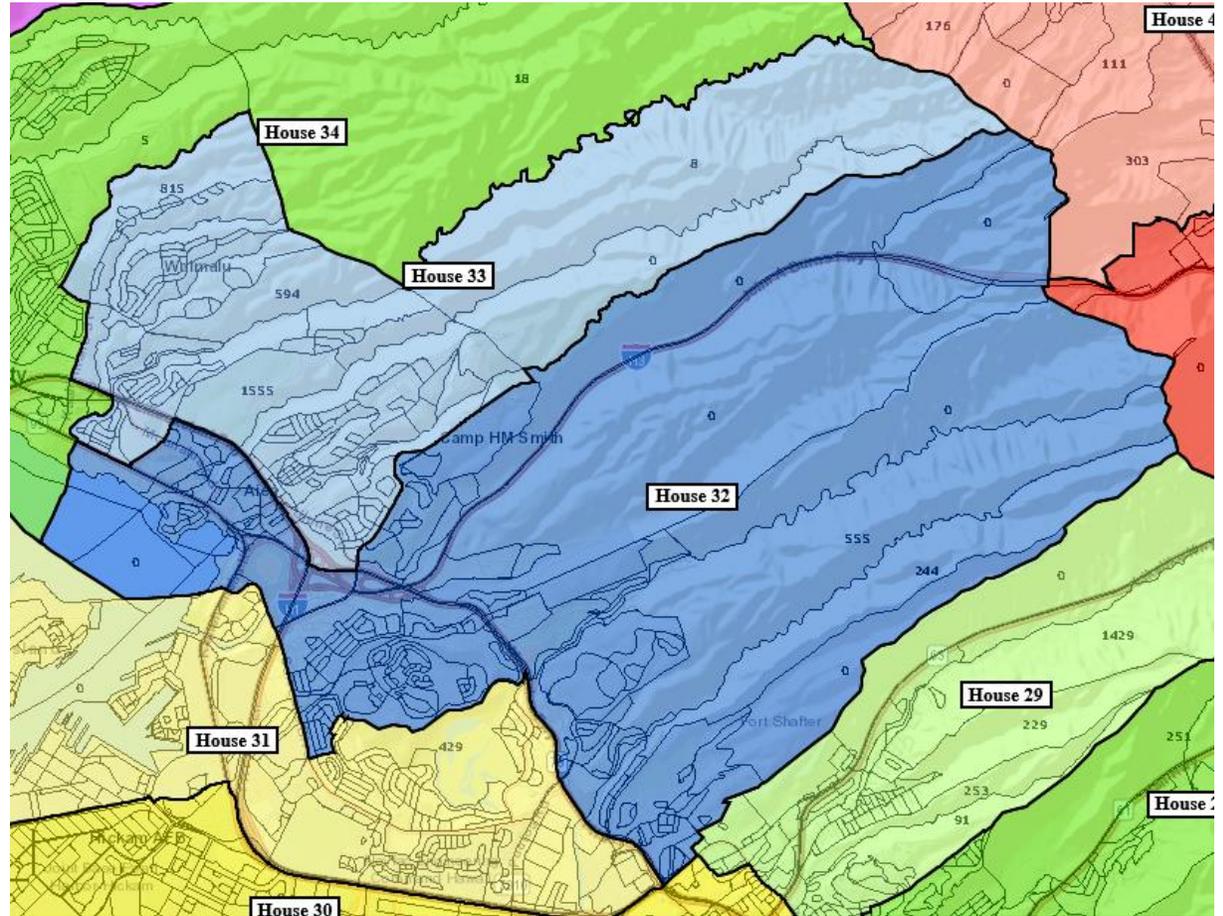
Senate District 14

Exactly Aligned with TCs House Districts 32 & 33

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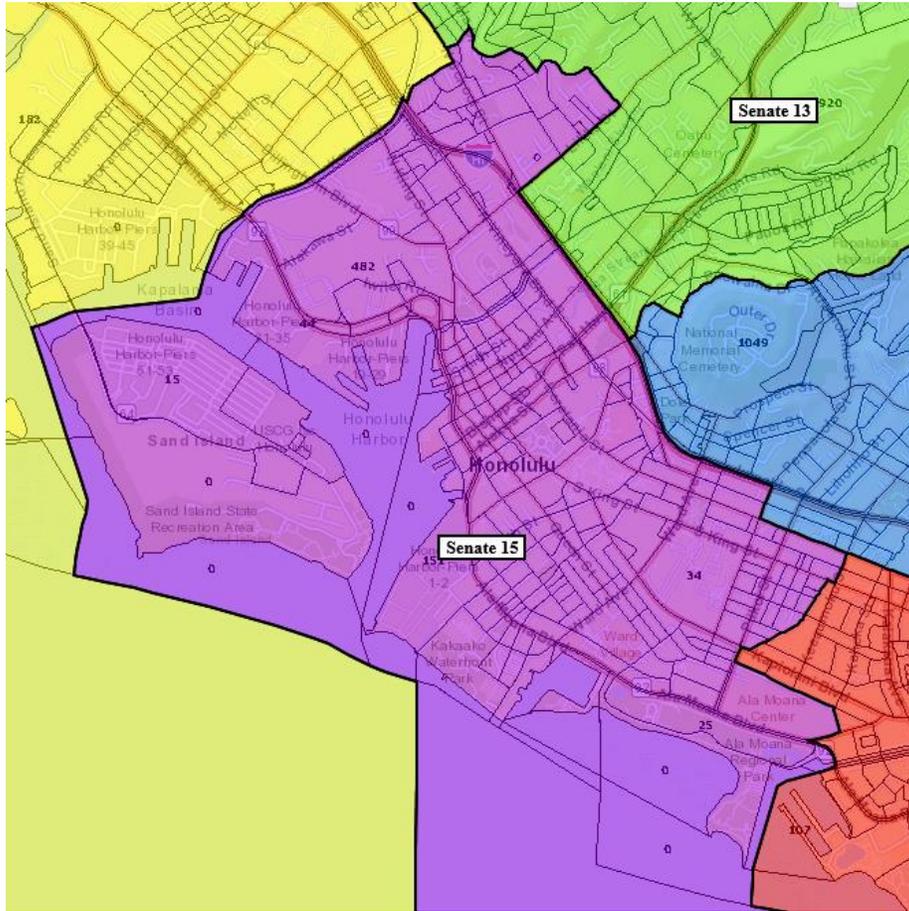
Aligned Senate Plan



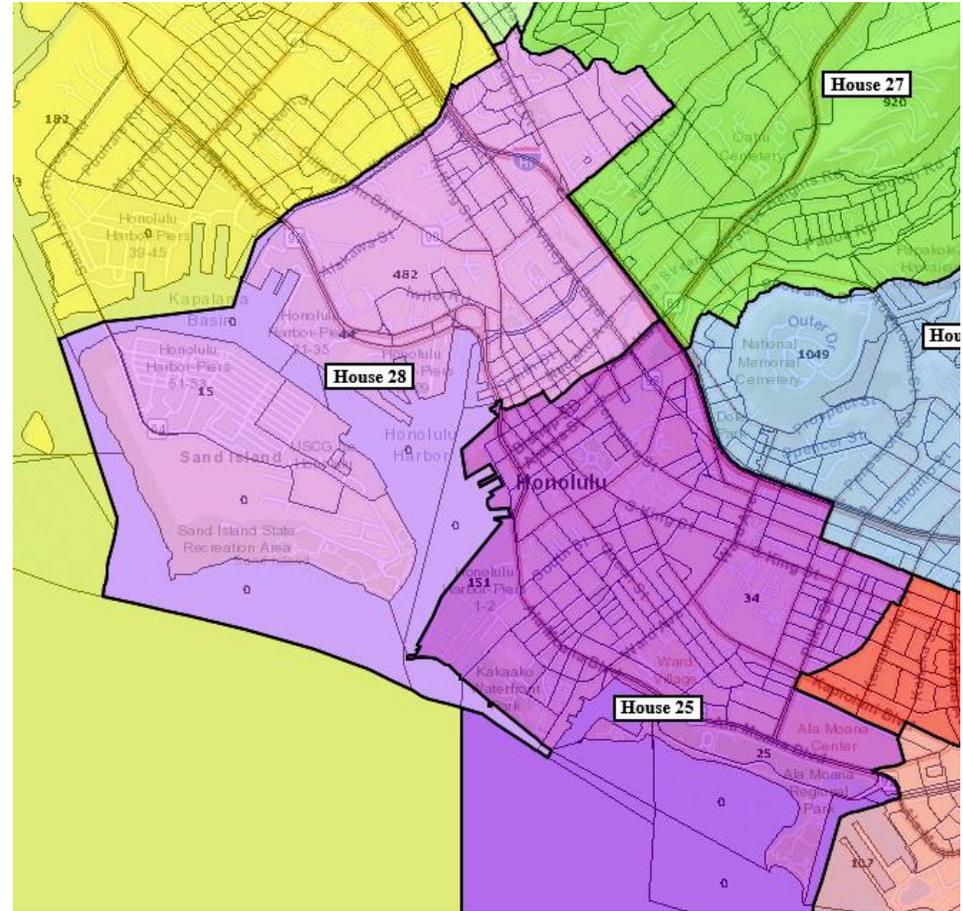
Technical Committee's House Map

Senate District 15

Exactly Aligned with TCs House Districts 25 & 28



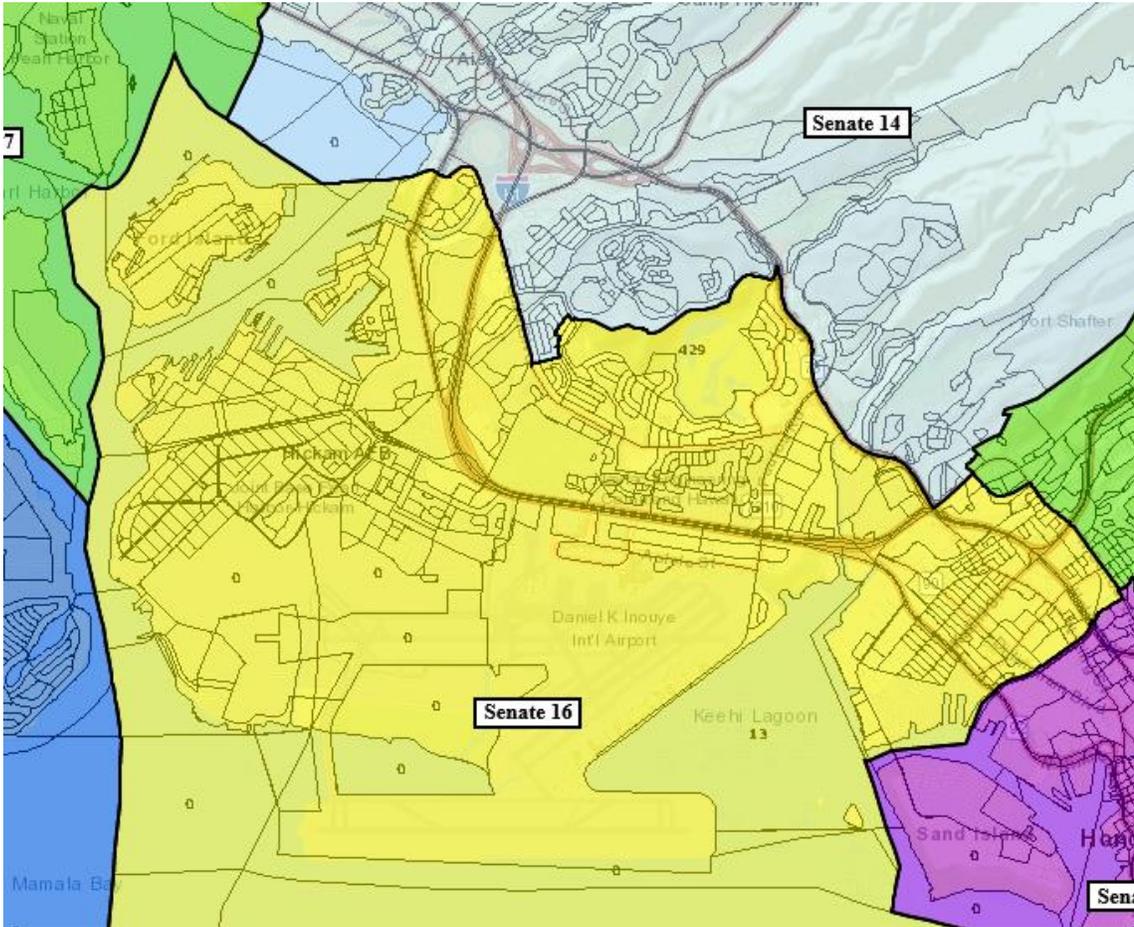
Aligned Senate Plan



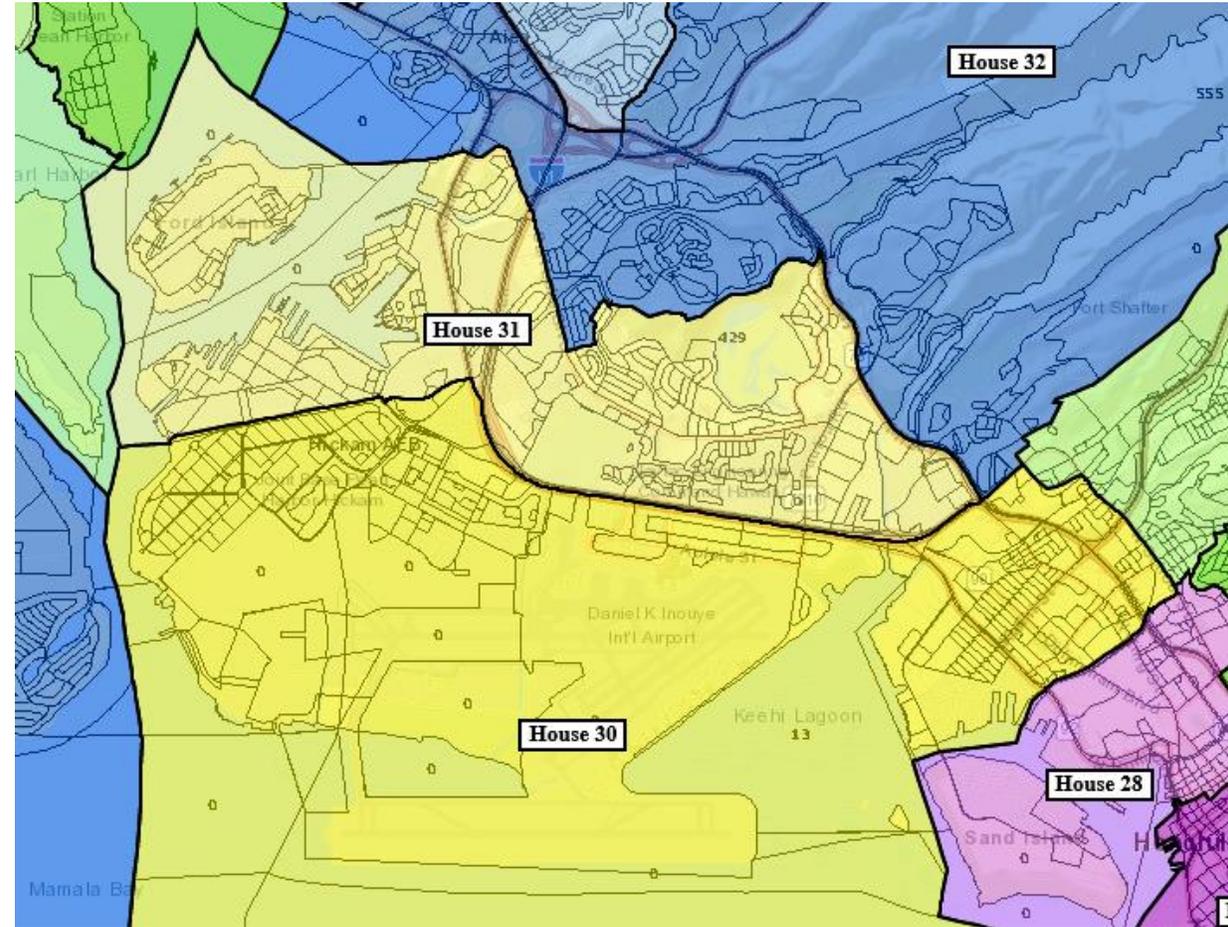
Technical Committee's House Map

Senate District 16

Exactly Aligned with TCs House Districts 30 & 31



Aligned Senate Plan



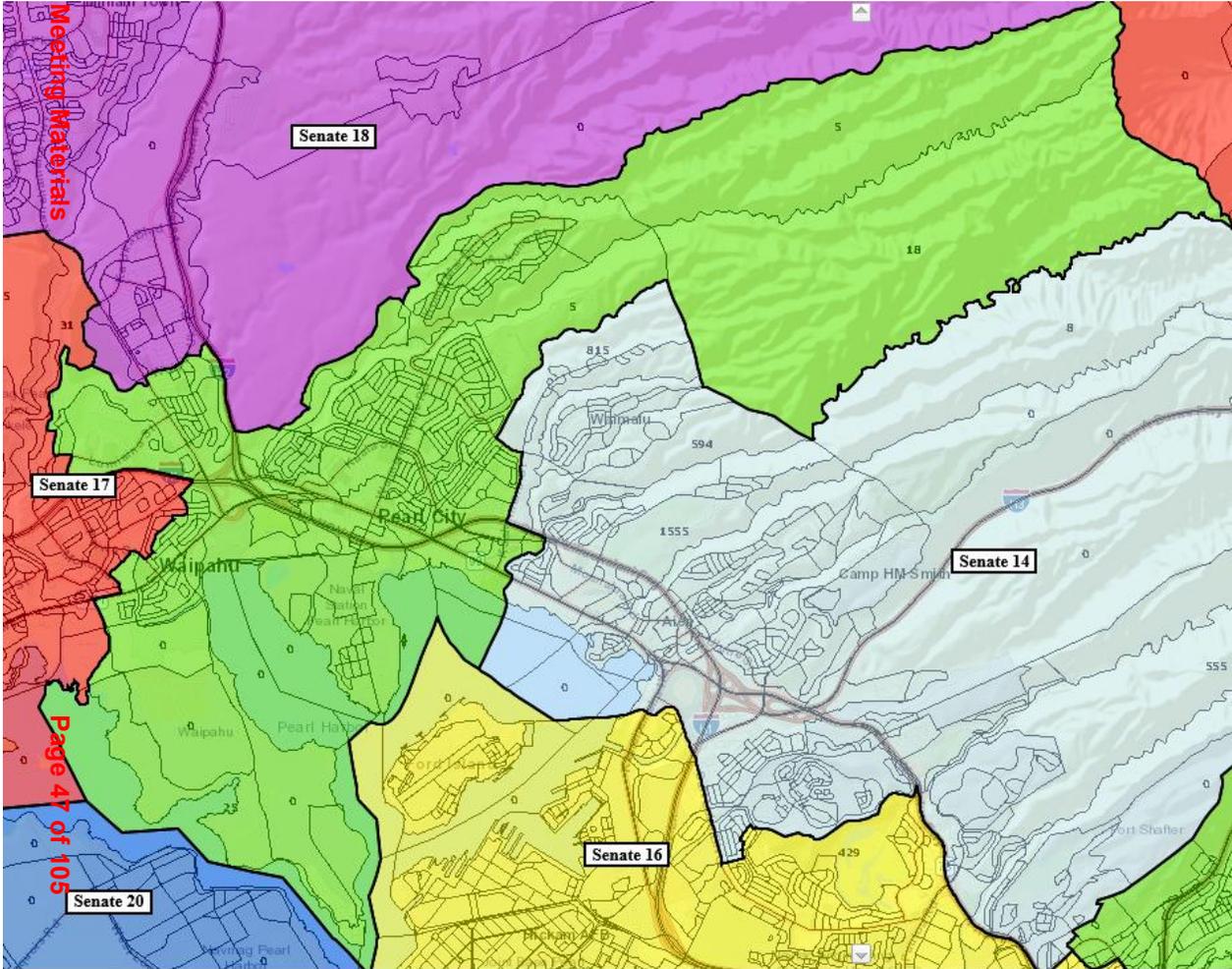
Technical Committee's House Map

Senate District 17

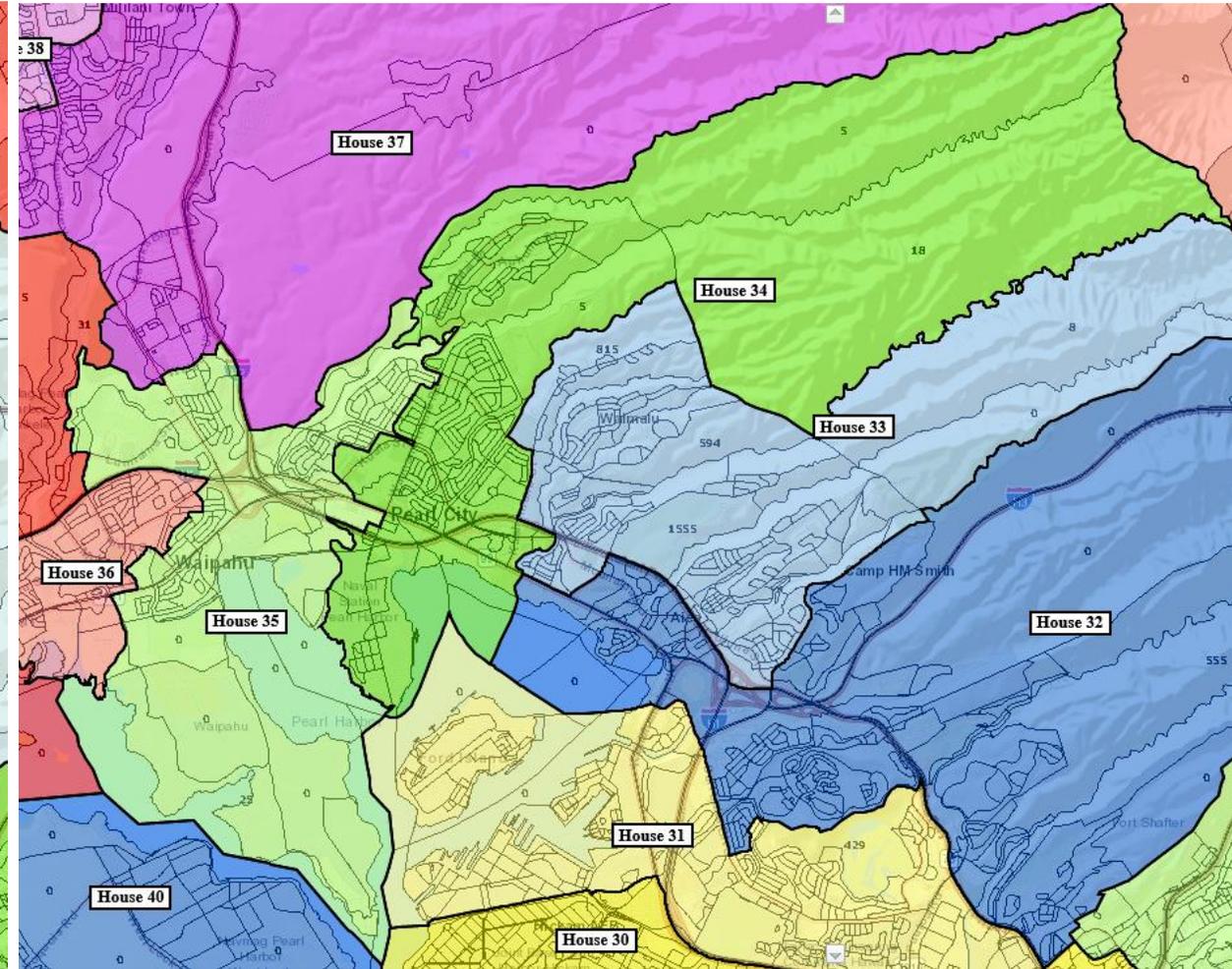
Exactly Aligned with TCs House Districts 34 & 35

01/20/2022 Meeting Materials

Page 47 of 105



Aligned Senate Plan



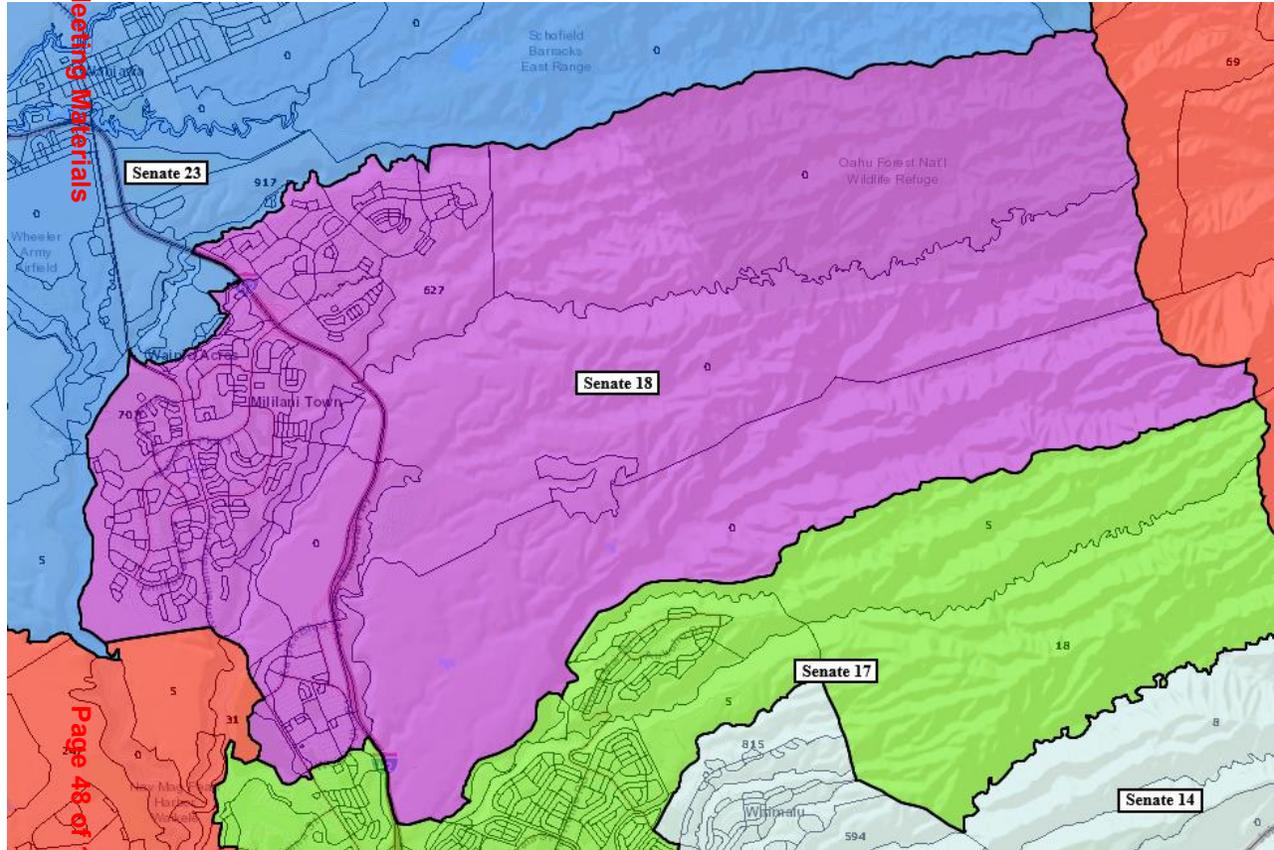
Technical Committee's House Map

Senate District 18

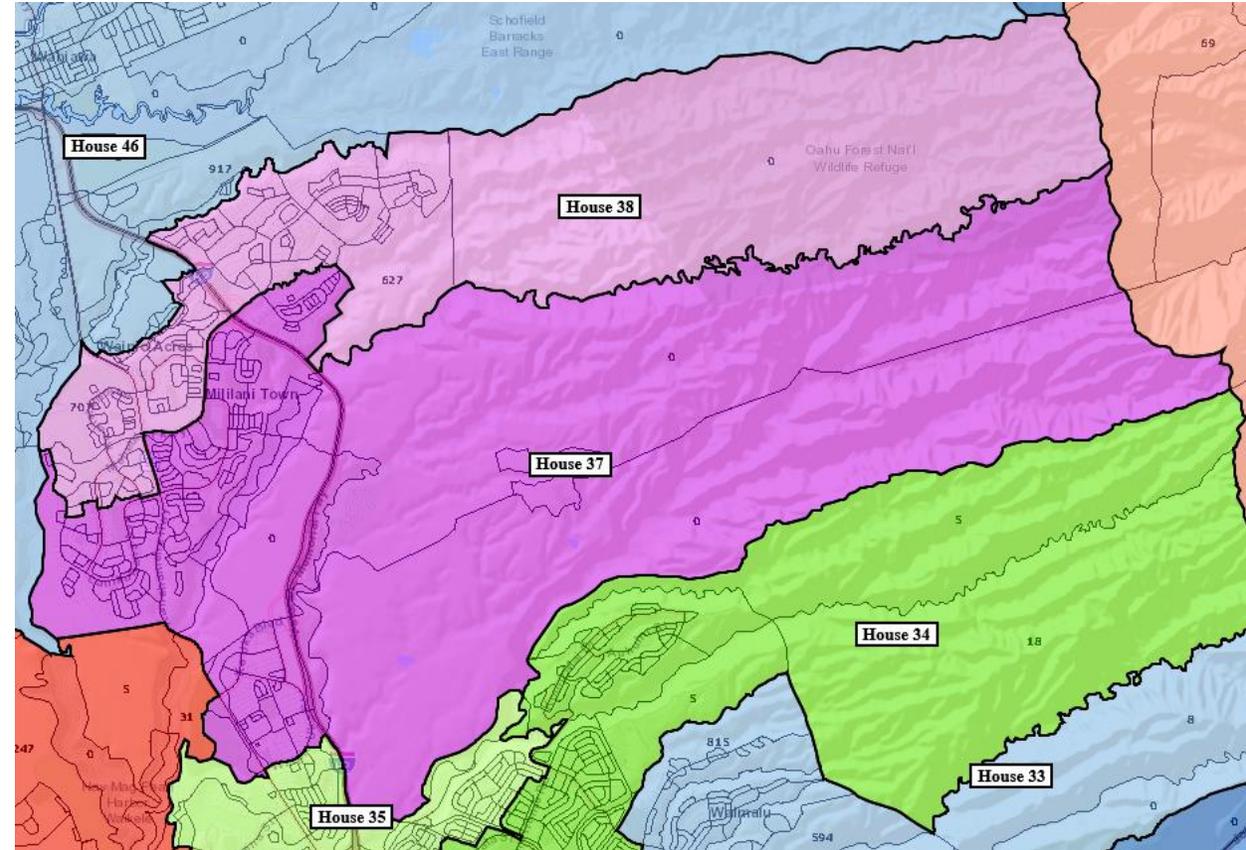
Exactly Aligned with TCs House Districts 37 & 38

01/20/2022 Meeting Materials

Page 48 of 105



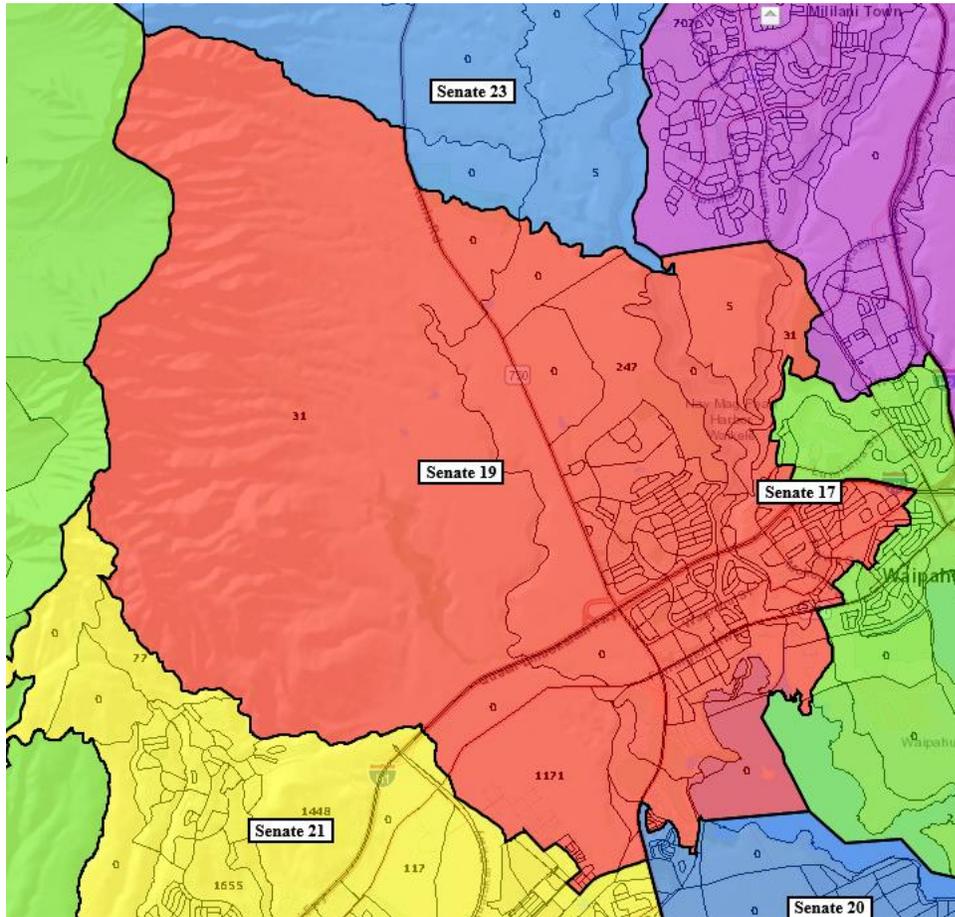
Aligned Senate Plan



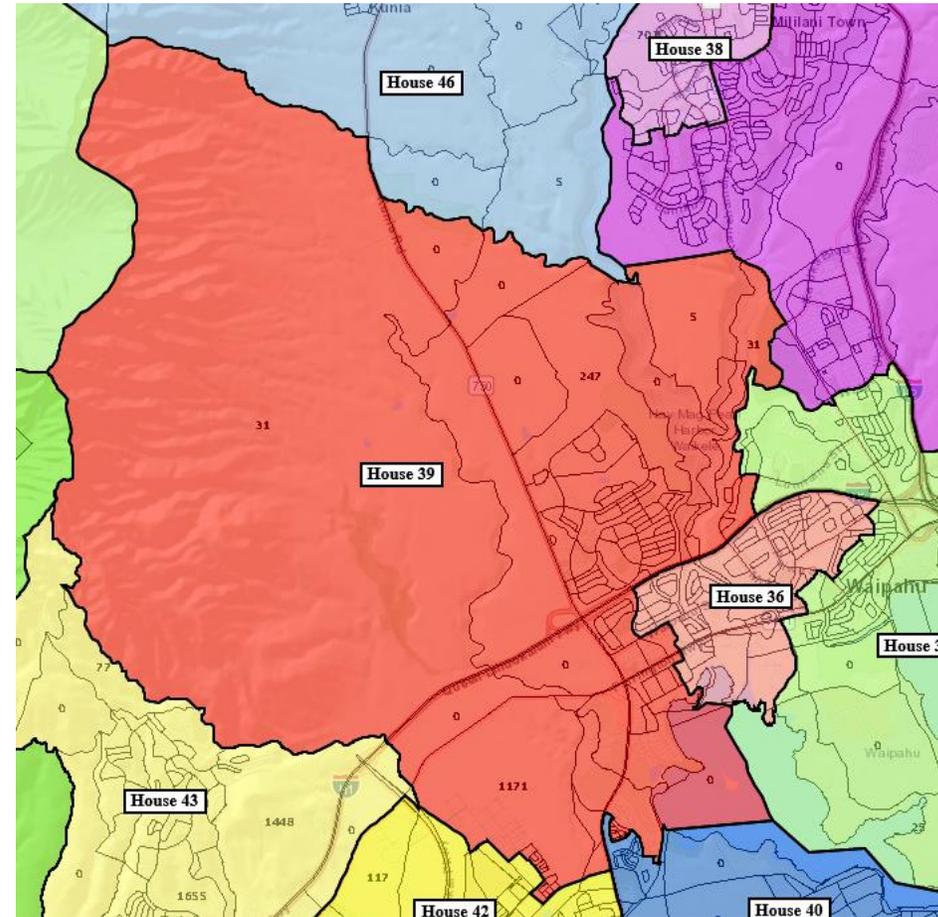
Technical Committee's House Map

Senate District 19

Exactly Aligned with TCs House Districts 36 & 39



Aligned Senate Plan

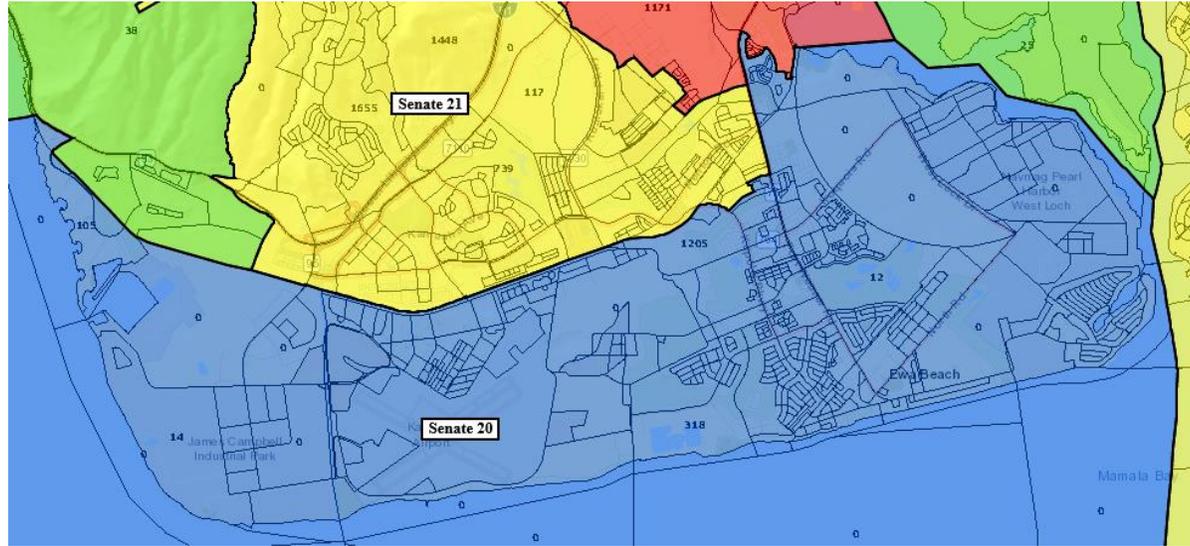


Technical Committee's House Map

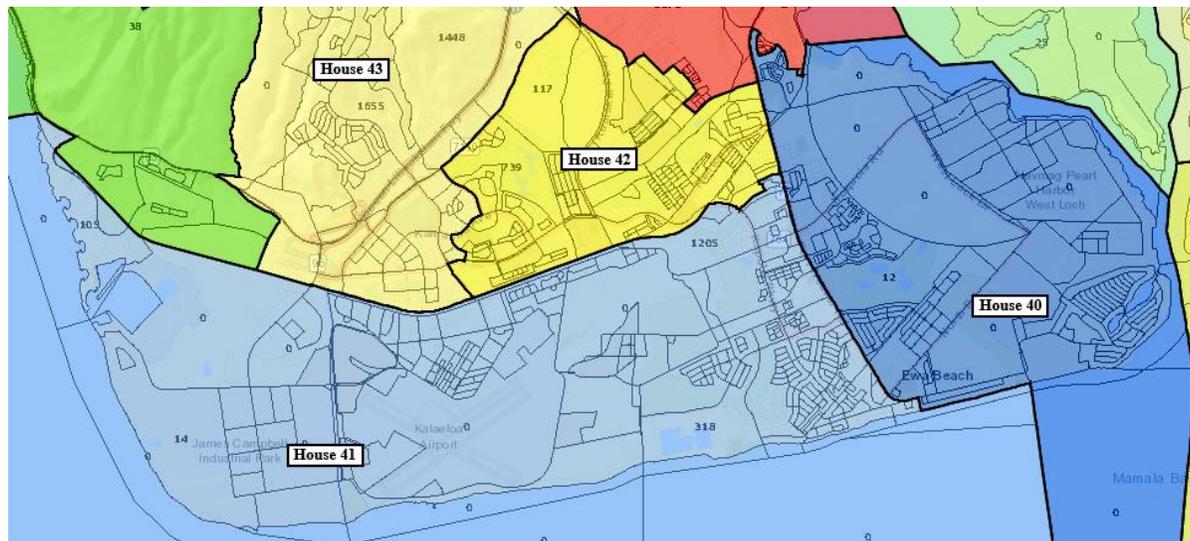
Senate District 20

Exactly Aligned with TCs House Districts 40 & 41

Aligned Senate Plan

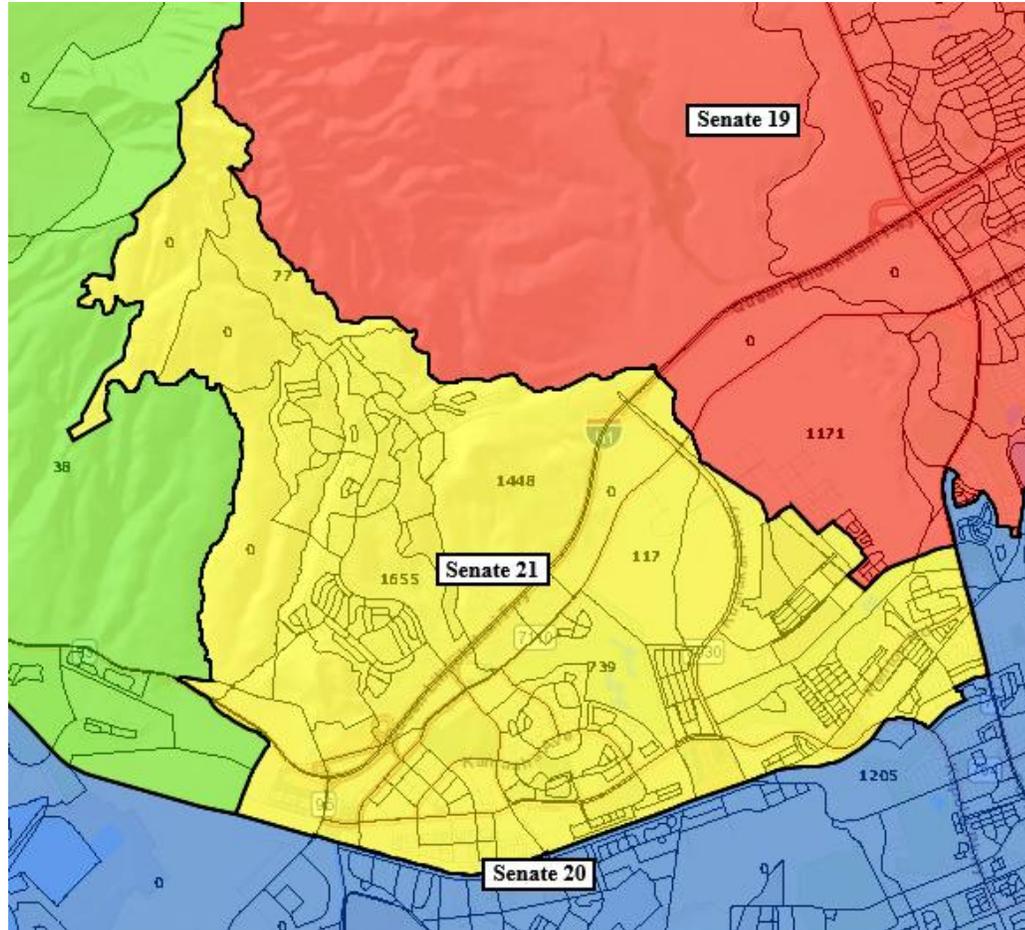


Technical Committee's House Map

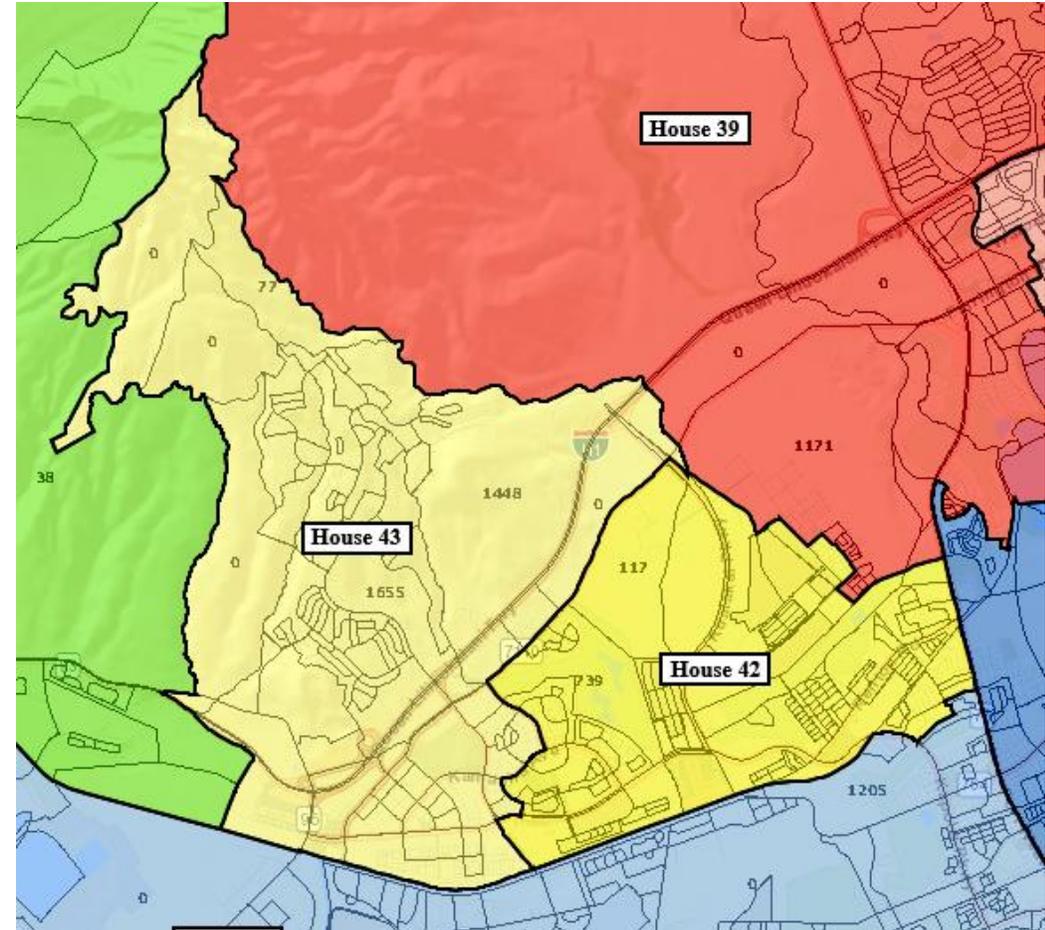


Senate District 21

Exactly Aligned with TCs House Districts 42 & 43



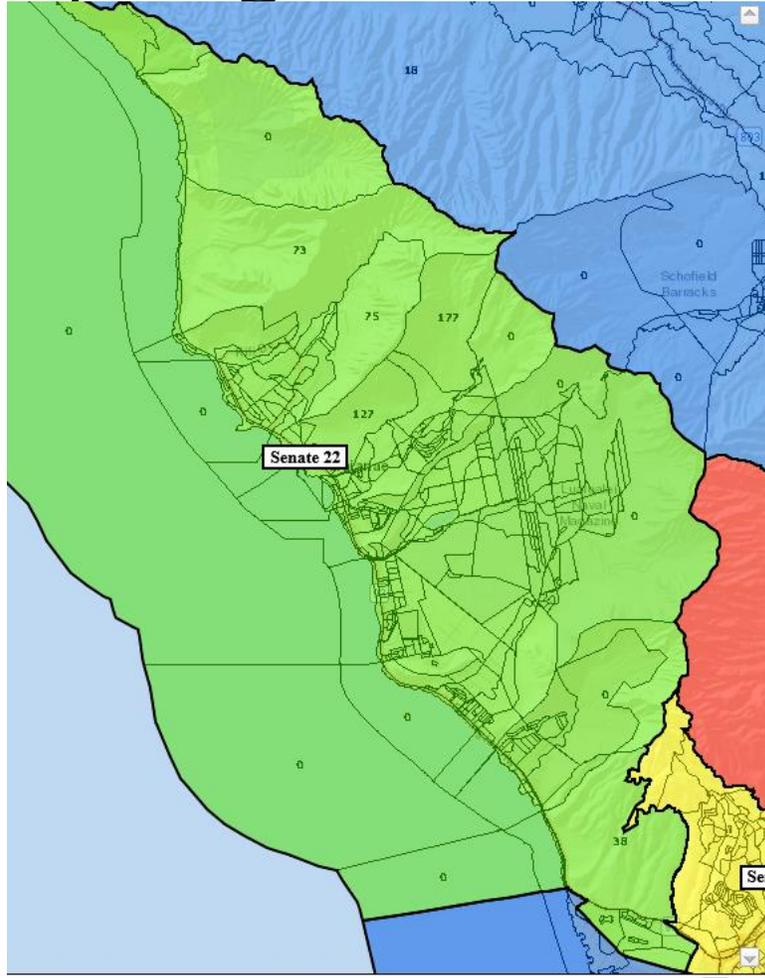
Aligned Senate Plan



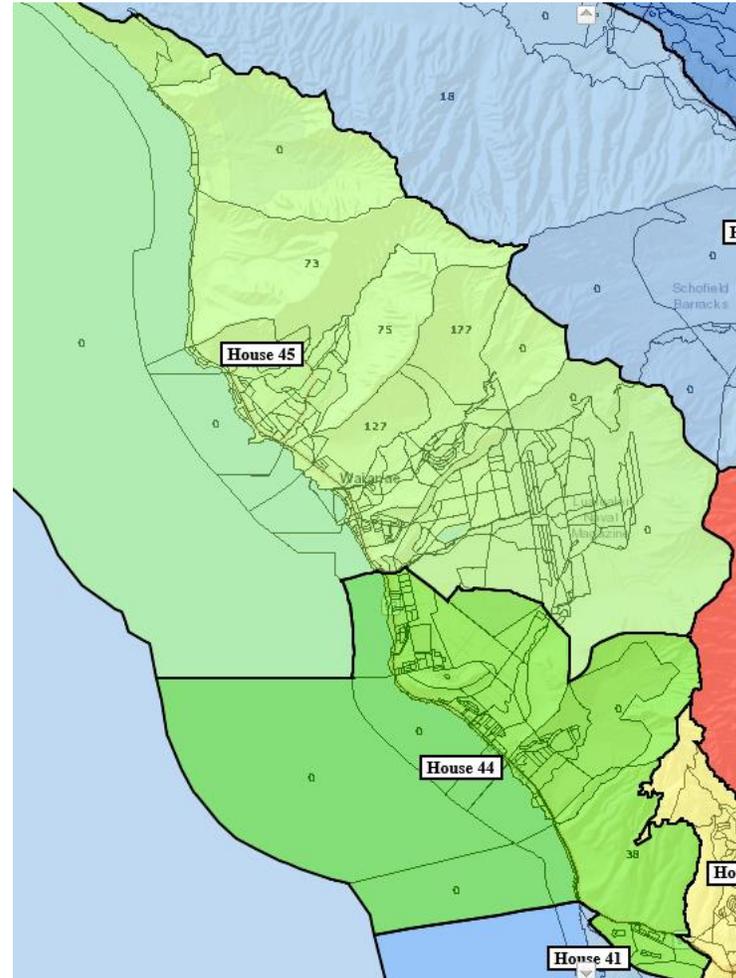
Technical Committee's House Map

Senate District 22

Exactly Aligned with TCs House Districts 44 & 45



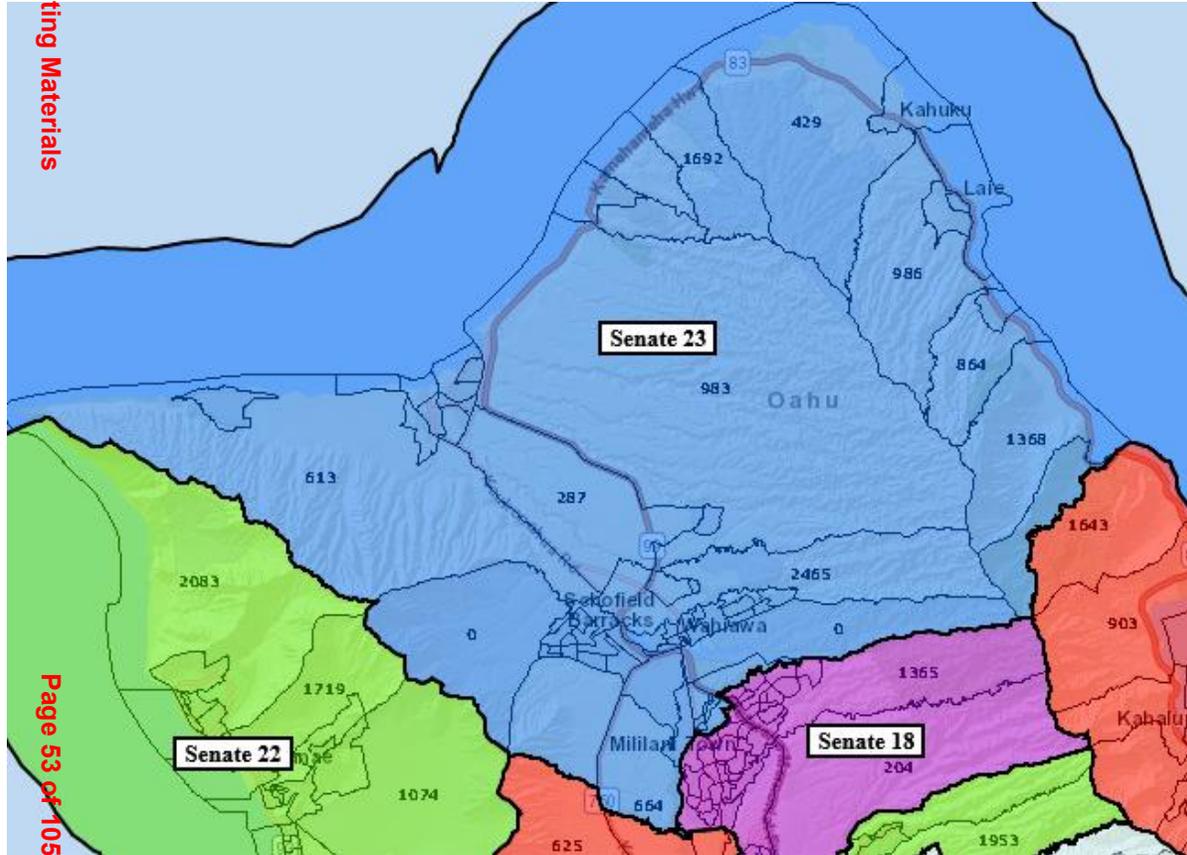
Aligned Senate Plan



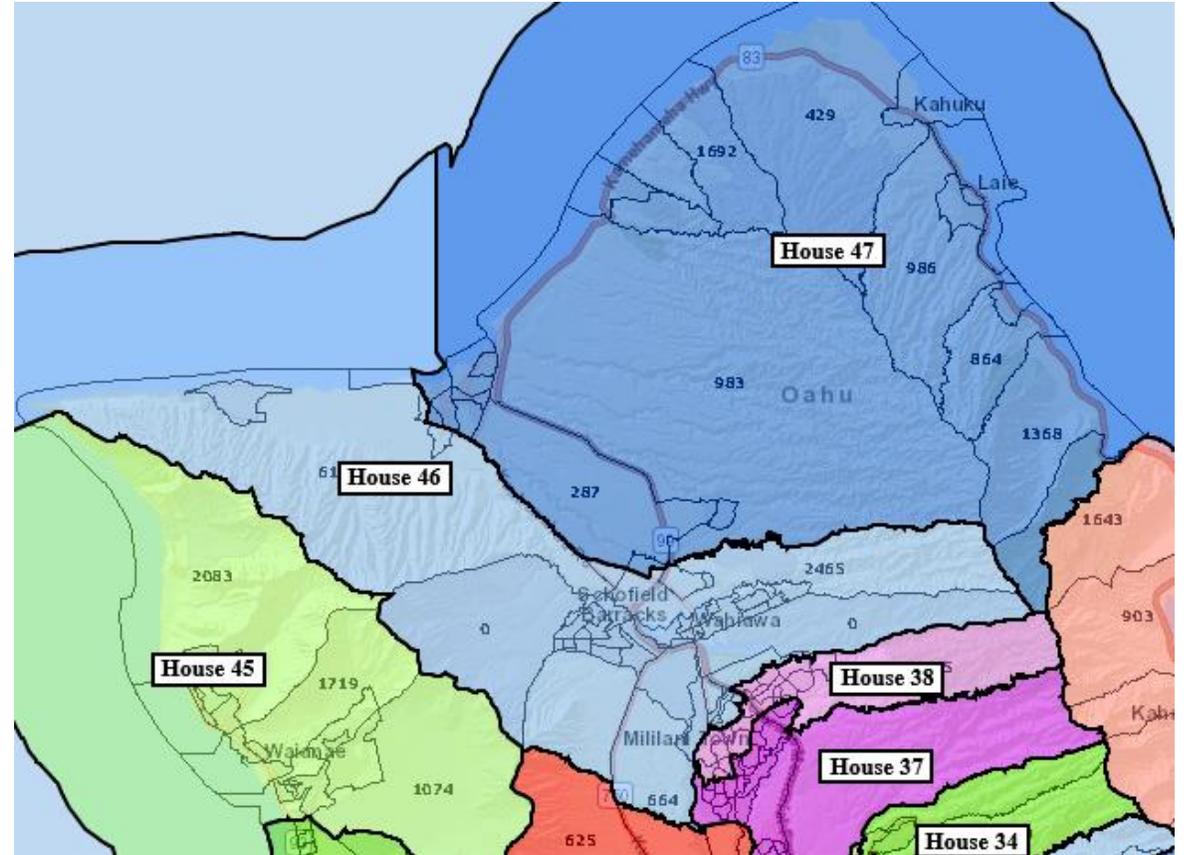
Technical Committee's House Map

Senate District 23

Exactly Aligned with TCs House Districts 46 & 47



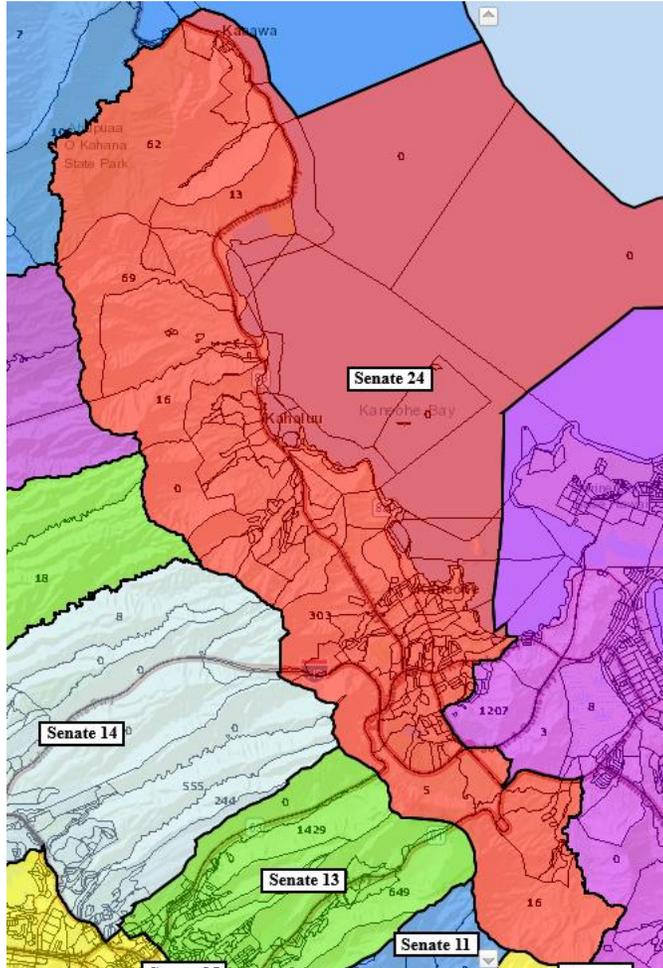
Aligned Senate Plan



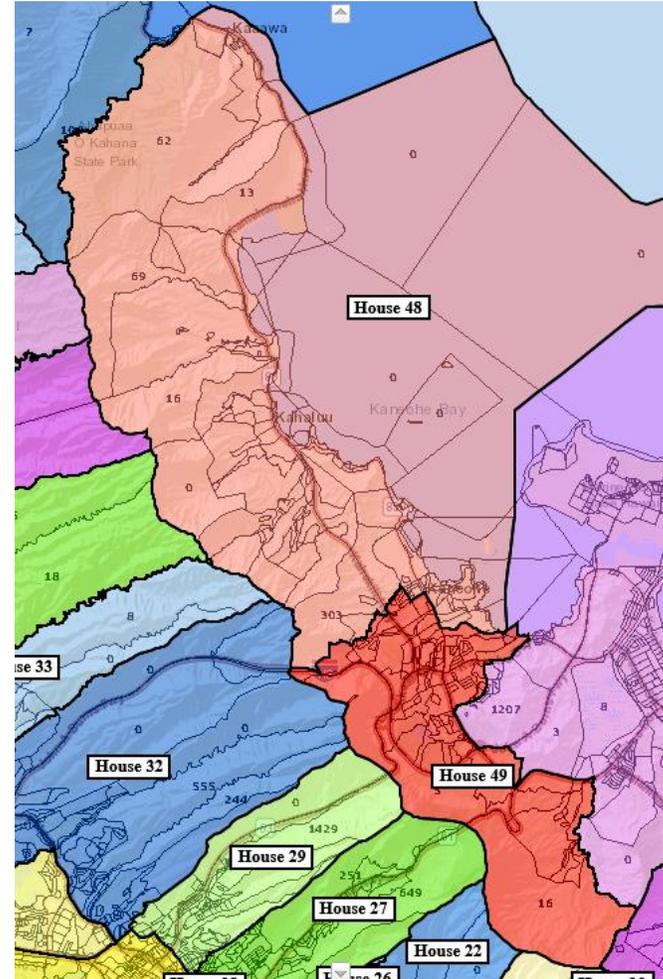
Technical Committee's House Map

Senate District 24

Exactly Aligned with TCs House Districts 48 & 49



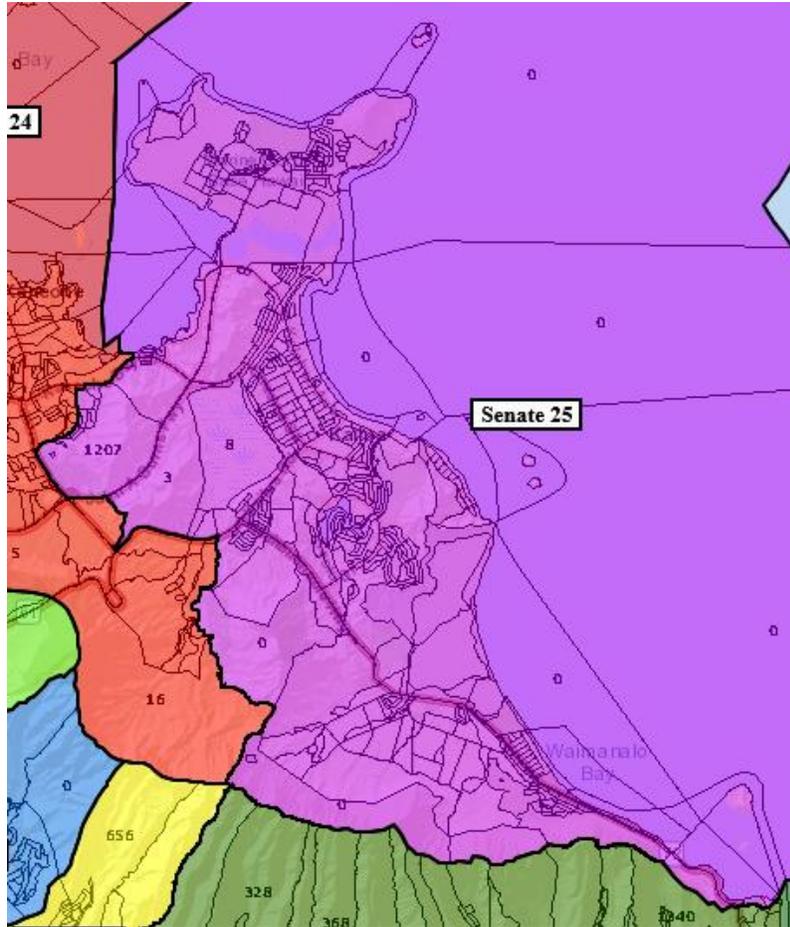
Aligned Senate Plan



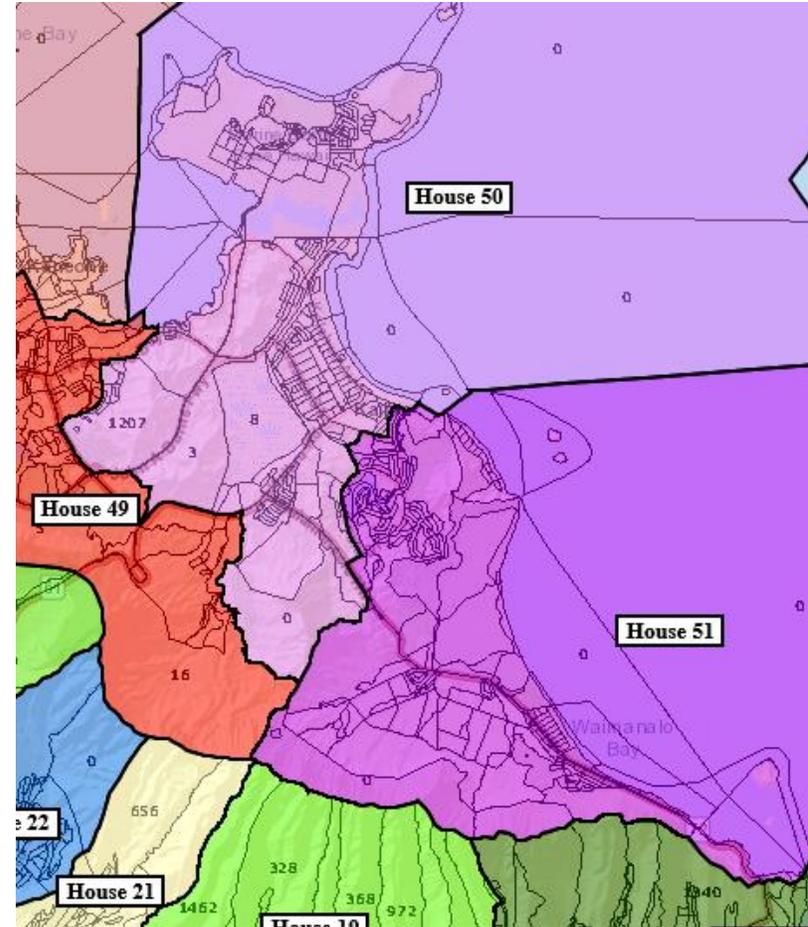
Technical Committee's House Map

Senate District 25

Exactly Aligned with TCs House Districts 50 & 51



Aligned Senate Plan



Technical Committee's House Map

“...state legislative districts shall be wholly included within congressional districts.”

Chapter 25 Hawaii Revised Statutes

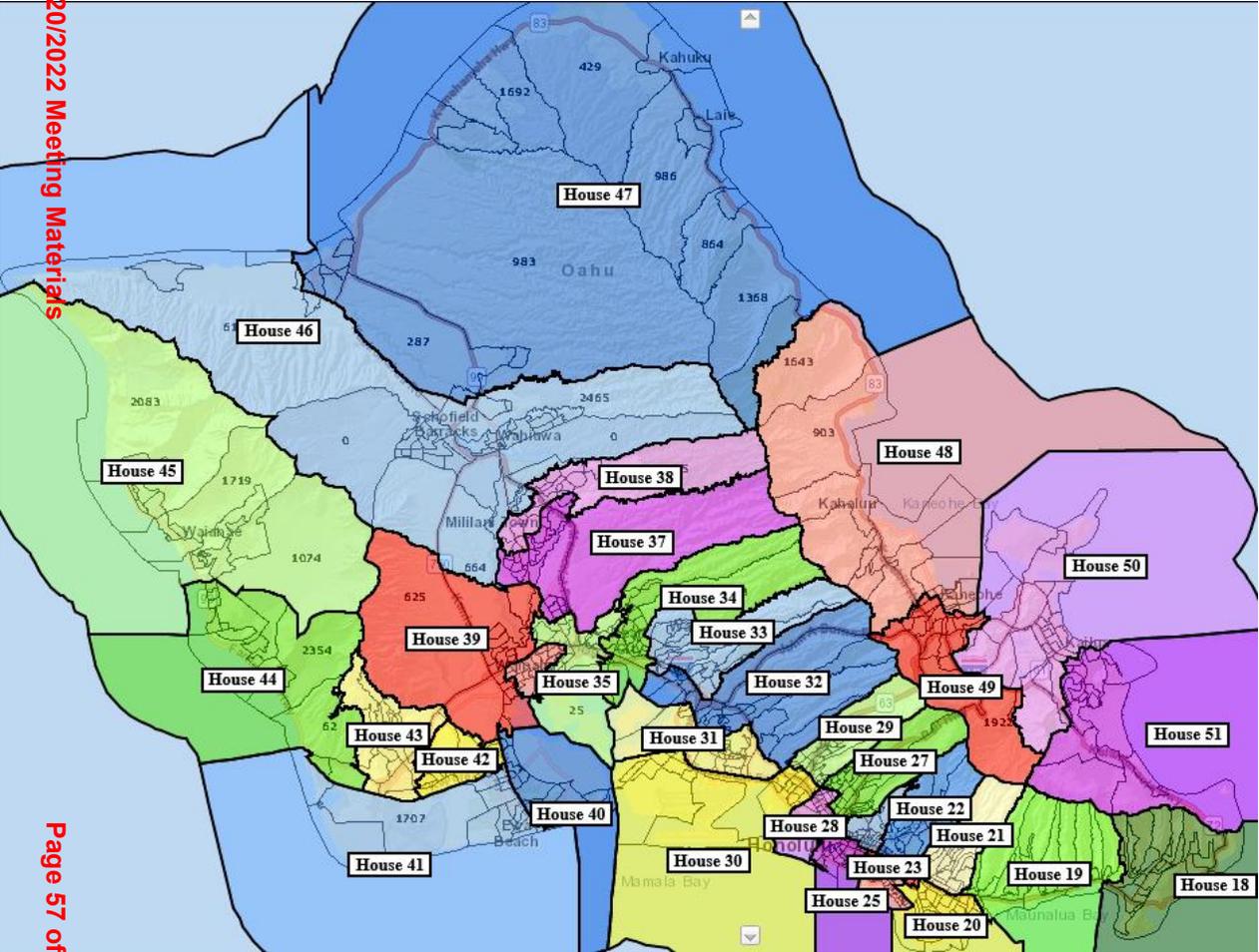
Aligned Plan: **ALL** 34 House Districts are contained within 1 Congressional District

- Uses Technical Committee’s House Plan & forms the Congressional District boundary along House District lines
- Technical Committee’s Plan:
 - On Oahu 6 House and 5 Senate Districts cross the Congressional District boundary

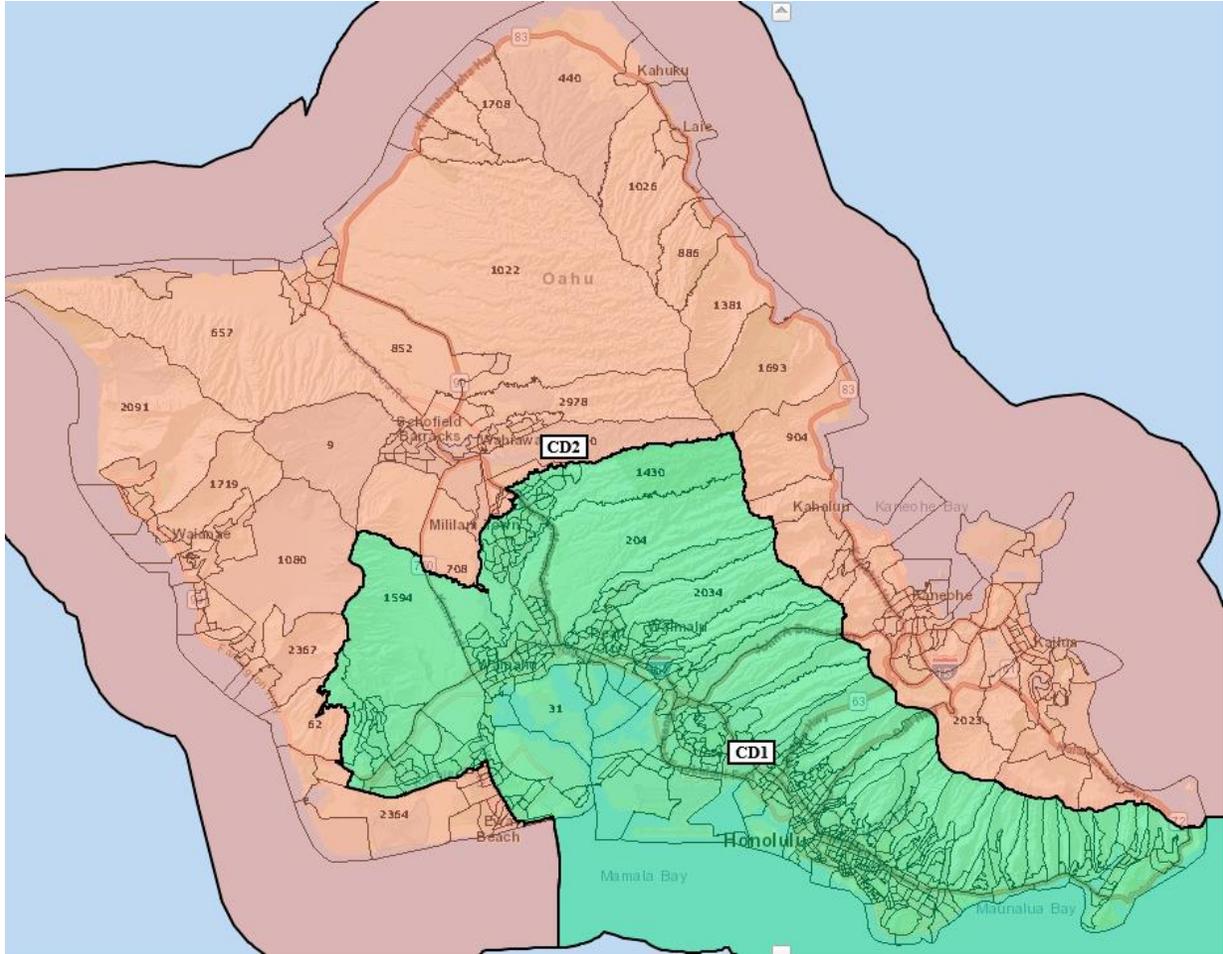
Every House District Fully Contained Within a Congressional District

01/20/2022 Meeting Materials

Page 57 of 105



34 House Districts (Technical Committee)



2 Congressional Districts Aligned with House Map

Aligned Congressional Plan (w/Technical Committee House Map)

Recommendations

- I urge the Reapportionment Commission to carefully examine the advantages of using an aligned approach for the Oahu Senate and Congressional maps.
 - It is logical
 - It provides greater coordination between 1 Senator and 2 Representatives who are all familiar with a community's local needs for schools, roads, and infrastructure
 - It complies with ALL Constitutional and HRS requirements
- Additionally on December 17, 2021 the Oahu Advisory Council recommended:
 - “Furthermore the OAC recommends that after there is evidence and confidence of accurate extraction numbers, Oahu maps be drawn in accordance with Article IV in it's entirety, which will establish Ka'ena Point and Makapu'u Point as natural boundaries for both house and senate districts.”