BOARD OF WATER SUPPLY

JOSEPH E. TAIT
MANAGER AND CHIEF ENGINEER

REGULAR MONTHLY MEETING NOTICE AND AGENDA

Thursday, December 18, 2025
9:30 a.m. or shortly thereafter

Meetings of the Board of Water Supply, County of Kaua'i will be conducted in-person at the Department of Water Board Room, 2nd Floor located at 4398 Pua Loke Street, Līhu'e, Kaua'i, Hawai'i, and remotely in accordance with Act 220, Session Laws of Hawai'i 2021 via interactive conference technology as follows:

Click on the link below to join on your computer or mobile app by VIDEO:
https://us06web.zoom.us/j/82021521637
Passcode: 167636
OR
Dial phone number and enter conference ID to call in and join by AUDIO:
Phone: 888 788 0099 US Toll-free
Phone Conference ID: 820 2152 1637

Please Note: If you do not provide a name, unique identifier, or alias when joining the meeting, you will be renamed to allow staff to address and manage individual guests.
In the event of a lost connection the Board will recess for up to 30 minutes to restore the connection. If the connection cannot be restored within 30 minutes, the Board will continue the meeting to 12:00 p.m. or shortly thereafter. If the visual link cannot be restored, the Board may reconvene with an audio-only link using the above dial-in phone number and conference ID. A lost connection only applies to remote connections provided as part of the remote meeting but does not apply to a public member being unable to access the meeting due to a connectivity issue on their end.

Prior to the start of the meeting, the Board welcomes student Board member Anastasia Perry

CALL TO ORDER

ROLL CALL

ANNOUNCEMENTS
1. Next Scheduled Board Meeting: Thursday, January 22, 2026

APPROVAL OF AGENDA

MEETING MINUTES
1. Regular Board Meeting – November 20, 2025

PUBLIC TESTIMONY

NEW BUSINESS

1. *Manager's Report No. 26-16* Discussion and Possible Action on Namahana Education Foundation's Water Minimization Plan
2. *Manager's Report 26-17* Discussion and Possible Action on the Namahana Education Foundation's Water Service Agreement
3. *Manager's Report No. 26-18* Discussion and Possible Action for Adoption of Budget Resolution 26-02 for the acceptance and expenditure of grant monies from the Legislature of the State of Hawaii under Act 230 for the Kapa'a Homesteads Well No. 4 Project
4. *Manager's Report No. 26-19* Discussion and Possible Action for Adoption of Resolution 26-03, Safe Drinking Water State Revolving Fund (DWSRF) Loan of $18M for Kilauea 1.0 MG Tank
5. *Manager's Report No. 26-20* Discussion and Possible Action for Adoption of Resolution 26-04, Safe Drinking Water State Revolving Fund (DWSRF) Pro-Fi Loan of $3M for SFYs 2026-2027 for Kauai Board of Water Supply (Board)
6. *Manager's Report No. 26-21* Discussion and Possible Action on the Joint Funding Agreement (JFA) with U.S. Geological Survey (USGS) for the Period of October 1, 2025 to September 30, 2026
7. Election of Board Chair, Vice-Chair and Secretary for 2026 *(deferred from the November 20, 2025 meeting)*

INFORMATIONAL BRIEFING

1. Water Systems Investment Plan (WSIP) Water Rate and FRC Results Summary
   - CIP Development and Prioritization
   - Water Rate Study – Recap of Revenue Requirements Results
   - FRC Study Results
   - Next Steps

STAFF REPORTS

1. **Fiscal**
   a. Monthly dashboard – Number of Service Calls, Number of Walk-in Customers, Number of Customer Emails and Correspondence, Number of Customer Rebills, Accounting Highlights, Transponder Replacement highlights and progress, Staff Overtime hours
   b. Budget Report for November 2025
2. **Operations**
   a. Monthly dashboard – Annual Financial Impact Overview, Staff Overtime Hours, Budgeted and Vacant Positions, Services Received/Completed, Highlights: New Hires and Recruitment **(Ops hired 10 new employees in 2025; New Ops record for New Hires!)**, Interviews scheduled, Training: Large Customer and Source Meter Calibration Testing
3. **Engineering**
   a. Monthly dashboard – Budgeted and Vacant Positions, Staff Overtime Hours, Projects In Design, In Construction, Completed; Water Resources and Planning Statistics –

Customer Requests, Applications and Permits, Service and Records Requests, Number of Backflow Devices tested

i. Capital Improvement Plan (CIP) Project Highlights/Status Updates:
   - Kapa'a Homesteads 325' Tanks
   - Pu'u Pane 1.0 Million Gallon Tank
   - Kalāheo Water System Improvements
   - University of Hawai'i Experimental Station 605' Tank
   - Hā'ena 0.2 MG Tank
   - Kīlauea Wells 1 & 2 MCC, Chlorination Facilities
   - Kūhiō Hwy (Hardy-Oxford) 18" Main Replacement

ii. DOW Project Highlights/Status Updates:
   - Water Systems Investment Plan (WSIP)
   - Kaua'i Water Use and Development Plan (KWUDP)
   - As-Needed Grant Writing and Preparation Services: WaterSMART Grant for Advanced Metering Infrastructure (AMI) Meters

4. **Administration**
   a. Human Resources – updates on Personnel Vacancies

5. **Manager and Chief Enginee**r
   a. Reports to Manager:
      1. Change Order No. 7 for Contract No. 701 with Glenmount Global Solutions, LLC, Job No. 20-03 SCADA System Maintenance and Professional Consultation Services
      2. Multi-Term Contract Encumbrance for Construction Contace C765, Job No. 24-05 – Kapa'a Homesteads Well No. 4 Pump and Controls
      3. Change Order No. 1 for Contract No. 778 with ABR Ventures LLC dba Honua Waterworks, GS-2025-04 Hydrants & Appurtenances and Various Building Water Pipe Repair and Maintenance Fittings

TOPICS FOR NEXT BOARD OF WATER SUPPLY MEETING: *(January)*

1. Confirmation of Board Committee Appointments for 2026

TOPICS FOR FUTURE BOARD OF WATER SUPPLY MEETING:

EXECUTIVE SESSION:

Pursuant to Hawai'i Revised Statues (HRS) §92-7(a), the Board may, when deemed necessary, hold an executive session on any agenda item without written public notice if the Executive Session was not anticipated in advance. Any such executive session shall be held pursuant to HRS §92-4 and shall be limited to those items described in HRS §92-5(a).

ADJOURNMENT

WRITTEN TESTIMONY

The Board is required to afford all interested persons an opportunity to present testimony on any agenda item. The Board encourages written testimony at least two (2) business days prior to a scheduled Board meeting. At each Board meeting, the Board will accept oral and written testimony on any agenda item during the Public Testimony portion.

Please include:

1. Your name and if applicable, your position/title and organization you are representing
2. The agenda item that you are providing comments on; and
3. Whether you are a registered lobbyist and, if so, on whose behalf you are appearing.

Send written testimony to:

Board of Water Supply, County of Kaua'i
C/O Administration
4398 Pua Loke Street
Līhu'e, Hawai'i 96766

E-Mail: board@kauaiwater.org
Phone: (808) 245-5406
Fax: (808) 245-5813

Public Testimony

You do not need to register to provide oral testimony on the day of the meeting. Please note that public testimony is taken after the approval of the meeting agenda to ensure public testimony is received before any action is taken on an agenda item. The length of time allocated to present oral testimony may be limited at the discretion of the chairperson.

SPECIAL ASSISTANCE

If you need an auxiliary aid/service or other accommodation due to a disability, or an interpreter for non-English speaking persons, please call (808) 245-5406 or email board@Kaua'iwater.org as soon as possible. Requests made as early as possible will allow adequate time to fulfil your request. Upon request, this notice is available in alternate formats such as large print, Braille, or electronic copy.

Draft Minutes

MINUTES
BOARD OF WATER SUPPLY
Thursday, November 20, 2025

The Board of Water Supply, County of Kauaʻi, met in a regular meeting in Līhu'e on Thursday, November 20, 2025. Vice Chair Shigemoto called the meeting to order at 9:32 a.m. The following Board members were present:

BOARD:
Ms. Julie Simonton, *Chair*
Ms. Micah Finnila
Mr. Clyde Kodani
Mr. Eric Fujikawa

EXCUSED:
Mr. Tom Shigemoto, *Vice-Chair*
Mr. Kaʻaina Hull
Mr. Troy Tanigawa

Quorum was achieved with **4** members present at Roll Call

ANNOUNCEMENTS
1. Next Scheduled Board Meeting: Thursday, December 18, 2025

APPROVAL OF AGENDA
The agenda was approved with no objections

MEETING MINUTES
1. Regular Board Meeting – October 23, 2025
2. Executive Session – October 23, 2025

The minutes of the October 23, 2025 Regular Board meeting and the October 23, 2025 Executive Session were received for the record.

PUBLIC TESTIMONY
The Board received public testimony from Felicia Cowden for Informational Briefing Item 1 Water Systems Investment Plan (WSIP) Water Rate Study Revenue Requirements Preliminary Results. Ms. Cowden suggested that the Department go on Hoʻike to communicate with the public. Ms. Cowden expressed her frustration with government silos and lack of communication between agencies providing some examples of concerns she has with the decommissioning of a reservoir in her area, water for agriculture use, and greater partnership between surface water and potable water. She continued testimony related to the decommissioning of reservoirs, the deaths of residents due to dam failures, and fire protection. She added that the Department needs to communicate with the State and Public Works on how fire flow protection is handled.
Staff instructed Ms. Cowden to keep the testimony related to the WSIP Water Rate Study Revenue Requirements.

NEW BUSINESS
1. *Manager's Report No. 26-15* Discussion and Possible Action for Adoption of Budget Resolution 26-01 for the acceptance and expenditure of grant monies from the Legislature of the State of Hawaiʻi under Act 250 for the Kūhiō Highway (Hardy-Oxford) 18" Main Replacement Project

Acting Engineering Division Head Jason Kagimoto provided a brief summary of the Manager's Report submitted.
Board member Kodani moved to approve Manager's Report No. 26-15, seconded by Ms. Finnila; with no objections, motion carried with 4 Ayes.

2. Discussion and possible action on the salary increase for the Department of Water's Manager & Chief Engineer pursuant to Salary Resolution No. 2025-1, A Resolution Relating to the Salaries of Certain Officers and Employees of the County of Kaua'i

Boards and Commissions Administrator Ellen Ching provided a summary of Salary Resolution No. 2025-1, and an explanation of the Salary table included. She mentioned that in the past, the Board voted to approve the Manager's salary increases for all 3 of the salary increase periods. However, County Human Resources expressed a concern that this may not be the best action because Board members may change over that time period, and the manager's evaluation each year may result in the Board's desire to change the decision on the salary for that respective period. Chair Simonton stated for the record that the Manager's most recent evaluation reflected that the Manager exceeded the Board's expectations.
Board member Finnila moved to approve a salary increase of $164,208.00 for the period of July 1, 2025 to June 30, 2026 to be retroactively paid effective July 1, 2025, seconded by Mr. Fujikawa; with no objections, motion carried with 4 Ayes.

3. Election of Board Chair, Vice-Chair and Secretary for 2026

Chair Simonton noted that 3 Board members were absent, and her preference would be that Vice-Chair Shigemoto at least be present for the election of officers.
Board member Kodani moved to defer the Election of Board Chair, Vice Chair and Secretary for 2026 to the December 18, 2025 meeting, seconded by Ms. Finnila; with no objections, motion carried with 4 Ayes.

4. Proposed Board meeting calendar for 2026

Board member Fujikawa moved to accept the Board meeting calendar for 2026, seconded by Mr. Kodani; with no objections, motion carried with 4 Ayes.

INFORMATIONAL BRIEFING ***(non-action item)***
1. Water Systems Investment Plan (WSIP) Water Rate Study Revenue Requirements Preliminary Results

Acting Engineering Division Head Jason Kagimoto introduced consultants Ann Hajnosz of Harris & Associates and Michelle Sorensen of Brown and Caldwell. He noted that this project has been a years-long heavy lift as part of the long-range plan which included revamping their GIS (Geographic Information System) hydraulic model, identifying CIP projects, and holding public meetings to provide information on those projects. The goal of the Department is to get to a better financial place to meet different goals and requirements which could involve evaluating our rates and updating impact fees and Facility Reserve Charges.

Agenda, Next Steps, and Updated Schedule (Slide 2 through 4)
Ms. Hajnosz provided an overview of the agenda for the presentation beginning with a recap from the August 2025 Board Workshop on rate-making policies and financial assurances, followed by the Manager's perspective, and obtaining Board feedback and recommendations. After this presentation, they would like to bring the proposed rate recommendation package to

the Board at a subsequent meeting in December or January, followed by public outreach meetings in early 2026 that will continue through Quarter 2. The ideal goal would be to implement rate increases at the start of FY26-27, at the same time starting the second and third parts of the rate study, which is the cost of service and rate design, through Quarter 3 of 2026.

When they get to the point of looking at the cost of service and rate design, they will take a deeper dive into how the actual customer costs align with the cost recovery from those customer classes. Currently the Department has 2 customer classes, General and Agricultural, which they will look further into and possibly adding in a Single-Family Residential class. After that, the focus moves to rate design to discuss recovering costs from your fixed component which is your monthly service charge, or your consumption charge which is your variable charge. They will also be looking at the power cost adjustment option currently in place and see how that may be implemented. These topics related to cost of service and rate design will be addressed later in the year.

August Board Meeting Recap (Slides 5 through 6)

Ms. Hajnosz stated that the August workshop provided an overview of the rate-making process; today will be focused on the revenue requirements and the level of adjustment needed for revenues and the impact on our water bills.

The Financial Assurance Elements help to answer those questions always asked when discussing rate increases like What is the driver? What level of increase is enough or too much? Where is the sweet spot? As shown on Slide 6, Ms. Hajnosz provided a summary of each of the Financial Assurance Elements:

Operating Reserve:
The operating reserve is primarily concerned with maintaining a sustainable level of resources to effectively manage operations, particularly in responding to variances in revenues and expenses. It addresses the unpredictability of operating costs and unforeseen emergency expenditures. There is already an established guidance for the operating reserve based on revenues. However, this proposal shifts focus towards costs, specifically targeting operating and maintenance expenses along with servicing costs, which is a driver for the rate increases.

Rate-Funded Capital Contribution
Rate-funded capital contribution refers to the capital paid through rates or revenues, also known as cash-funded capital. Depreciation may be used as a method to determine cash-funded capital, which is essential for maintaining sustainable utility infrastructure, similar to maintaining a house.

Capital Reserve
Capital reserve refers to funds set aside for unexpected capital expenses, similar to an operating reserve. It is typically aligned with an organization's annual capital expenditures or depreciation, with the average annual capital expenditures used as a target for this reserve.

Debt Service Coverage
Debt service coverage refers to the assurance that there are sufficient funds to cover the current year's annual debt service and provide assurance to bondholders. Debt as a percentage of net plant assets is a useful financial metric, allowing the cost of long-lived assets to be

distributed across generations. However, it is important to manage debt levels, ideally keeping them below 35%, with a maximum threshold of 50%. Currently, the debt level is well below 35%, but monitoring future debt sales is crucial to manage costs effectively.

Follow up from September CIP Public Meetings (Slides 7 through 15)

Ms. Hajnosz stated that the Department conducted Capital Improvement Project (CIP) meetings all across the island to inform the public about upcoming, planned CIP projects and actual infrastructure that needs to be taken care of. From those public meetings, questions and answers regarding rates were extracted and are being provided to the Board:

1. **Where does KDOW get funding from?** Mainly from water sales with varying usage rates, Facility Reserve Charge (FRC), Interest Income, Grants, State Appropriations, Bonds, State Revolving Fund (SRF) Loans.

2. **Why hasn't KDOW raised rates in so long?** Various reasons but mostly due to changes in leadership (Manager level) and not having an update to Water Plan 2020.
   Ms. Hajnosz added that now that the Water Systems Investment Plan is largely completed, it is aligned with how the Department will be moving forward and how it will be funded.

3. **What does KDOW have in reserves?** As the beginning of FY 2026 (July 1, 2025) there was about $31.7 million in unencumbered operating and capital reserves.
   Ms. Hajnosz reminded the Board that there was a plan to spend the additional reserves of approximately $13 million between operating and capital, so it was known that there was about a $13 million deficit in the current budget. Slide 10 shows a Review of the Reserves Drawdown, which was shared with the Board during a previous Board meeting/workshop.
   Ms. Hajnosz noted that over the last 10 years or so, the revenues and expenses have not been aligned. Though there was some coverage of Operating and Maintenance and debt service after the last rate increase in 2015, expenses were exceeding revenues in the last 6 years or so. By the end of 2024 the delta was close to $46 million, which was all funded by the drawdown cash reserves. Ms. Hajnosz added that if the Department had increased rates each year for all these 10 years, we would not be in the financial position we are currently in where we are deficit funding our operations and capital. Cumulatively, this averages out to about a 55% rate increase over that 10 year span.

4. **What financing options are being considered?** Rates, Facility Reserve Charges (FRC), Grants (State and Federal), State Appropriations, State Revolving Fund (SRF) Loans.

5. **How feasible are grants and bonds?** Grants are difficult to secure due to the relatively limited pool of funds. Bonds are an option although State Revolving Fund (SRF) Loans are a cheaper, more flexible alternative.

6. **Is there a funding solution that doesn't rely on State/County/Federal support?**
   - Water sales with varying usage rates from customers are the primary funding source.
   - Developers and new customers pay FRCs.
   - Public/private partnerships (P3) could be used to provide funding to water systems.
   - Private water companies could acquire County assets and operate them (not currently considering that option)

7. **What are the different categories of rates? Can we structure rates to be less of a burden on our Kupuna? What do people have to do to get Ag rates?**
   - Rate Categories: General Use Customer Class, Agriculture Customer Class
   - Rate Structure: KDOW should consider customer assistance alternatives including low income rates when evaluating Cost-of-Service in FY 2027
   - KDOW rule for Ag rates must be followed

   Ms. Hajnosz stated this will be discussed during the rate design phase, but customer assistance alternatives and low-income rates will be considered if needed. She added that the current rate structure recognizes low use, but it is still a burden if a customer uses a little more than that; with rate increases, that could be in the double digits. All of this will be looked at in the next phase.

   Board member Fujikawa asked if the categories that are planned to be discussed in the next phase are too problematic to be included in the current discussion. Ms. Hajnosz explained that a cost of service study cannot be done in time to get the proposed rate increases implemented by July 1, 2026, or even close to that. There is a lot of customer billing data that needs to be researched, and there have been a lot of billing data challenges because of the meter issues. The goal is to have one year of complete meter data before getting into the cost of service analysis.

8. **How do KDOW water rates compare to the other islands?** This analysis will be provided later in today's presentation.

   Board member Micah Finnila asked about how many residents attended the public outreach meetings, and what was the temperature of the public in hearing the responses from the Department and consultants. Manager Joe Tait stated he attended many of the public meetings and was pleasantly surprised with how supportive the residents were both during the presentation as well as during outside conversations taking place around the room. Acting Engineering Division Head Jason Kagimoto stated that the meeting they held so far were attended by 20 to 30 people. The Department's takeaway was that the public seemed very supportive of the work put in and the path forward and understanding of how the Department is going to accomplish those goals. He noted that there was not a formal point of discussion regarding rates, but it generally came up at each meeting in which instance the Department would identify the length of time since the last rate increase and that a rate study analysis is in progress. There seemed to be much community support with people being aware that they may live in water restricted areas where there is concern about fire flow and such. Mr. Kagimoto noted that at the Lihue meeting, they received feedback from a member of the public to please begin the rate analysis so the Department can begin to do all the work that needs to be done. He feels there will be much more attendance when the subject of the meetings focus on rates, but based on the feedback they received during this CIP outreach, he is hopeful that people will have the same sentiment. He wants to ensure that the Department emphasizes that there is a reason for increasing the rates.

   Board member Eric Fujikawa asked whether any considered percentages for rate increases shared with the public or is that something that will be reserved for the next phase of outreach? Mr. Kagimoto stated that while there was general discussion about the amount needed to move forward with these projects and bigger picture numbers, they did not share any potential percentage increases and the discussion were mainly focused on the scope of work for the projects. Manager Tait shared that he did get a few questions from the public, informally as he was circulating around the room, stating how low their water bill was in comparison to their other bills such as power, cable, etc. He noted that if your cable goes

out, you are still flushing your toilet and washing your clothes and feels the perspective of the value of water versus the value of other things needs to be expressed.

In response to Ms. Finnila on the tone of the meeting, Ms. Michelle Sorensen stated that when funding-related questions came up, there was a lot of very practical, information-based discussion around what the needs are. In response to Mr. Fujikawa, Ms. Sorensen stated that the expectation was that the Department would be out discussing with the public as the projects progressed, and the commitment to building on that outreach to include discussion on rates in 2026. Ms. Finnila asked if it were possible to include this information on the website to provide information and maintain communication should anyone have questions. Ms. Sorensen stated the intent is to post all the FAQ's on the website along with other related information, which is something that Ani Turner and Malia Reis (PR/PIO) started to build through the outreach process, and the intent is to expand on that as we get more information.

Review: Current Financial Overview Revenues and Expenses (Slide 16)

Ms. Hajnosz pointed out the delta between revenues and expenses starting about 2018. This can be used as a baseline to see what revenues are doing relative to the O & M itself plus the debt service plus any contributions that we add to capital and to the reserves. She noted that depreciation is not included on this slide as it is a non-cash item.

Scenarios Driven by Capital Assumption (Slide 17)

Ms. Hajnosz explained this slide focuses on two different capital scenarios – the 20-year prioritized CIP of $34 million of capital a year, and the prioritized achievable CIP of $16.5 million per year.

Strategy for Sufficient Cost Recovery (Slide 18)

Ms. Hajnosz stated that before they can discuss capital scenarios, they have to look at baseline operations, which are currently not being covered sufficiently by revenues right now. Baseline Operations is the minimum rate increase that is necessary to cover these three items:

1. Projected Operating and Maintenance expenses, which are salaries, power costs, administrative costs, and other operating expenses.
2. Existing Annual Debt Service, which is not being covered right now
3. Contributions to our Operating Reserve

This will serve as the starting point for adding on additional capital expenditures for Fiscal Year 2026; the capital funding scenarios are going to move on from FY27 through the next 10 years.

Capital Funding Scenarios

- Scenario 1 – Build capital reserve to $16.5 million by year 5 and maintain through year 10; achieve average spend of $16.5 million by year 10.

Ms. Hajnosz explained that though the focus is on the first 5 years, for Board decision-making it may be an even smaller time period because budgets are adopted on an annual basis. For the analysis to really make sense for everything the Department wants to achieve in terms of building up capital spend, they need to look at a 10-year time period.

- Scenario 2 – Build capital reserve to $16.5 million by year 5 and increase to $34 million by year 10; move closer to $16.5 average spend by year 5 and closer toward $34 million average spend by year 10.

- Scenario 3 – Build capital reserves to $34 million by year 5; achieve average spend of $34 million over 10 years; CIP staff augmentation of $2 million/year beginning FY 2027.

Ms. Hajnosz stated Scenario 3 looks at the same kind of scenario as Scenario 1, but at a higher level of $34 million. This scenario includes a CIP staff augmentation of $2 million a year, beginning in FY27. Current staff capacity for doing this higher level of capital expenditures is not achievable without program management assistance. The analysis always talks about building up to these numbers because we will not get there right away; this is why they have to look at a 10-year time period.

Board member Fujikawa noted that Scenario 2 seems like something the staff is capable of achieving now and asked if Scenario 2 would need staff augmentation to accomplish. Ms. Hajnosz stated that there have been discussions about adding additional CIP augmentation in all Scenarios; .5 million in Scenario 1, 1 million in Scenario 2, 2 million in Scenario 3. Chair Simonton asked if these scenarios can be tied to how quickly we can lift restrictions in the water restricted areas, for example, if Scenario 2 doesn't get us much farther than Scenario 1 in terms of lifting water restrictions in Kilauea. She thinks that information would be helpful to the Board's decision-making as well as provide a better understanding to the public of how the different scenarios may affect that. Mr. Fujikawa added that if we are going to start attaching rate increases to the results, he would be interested to see what the more immediate impacts, such as up to 5 years, could result from the different scenarios; this would help his understanding of what the Board and the Department are trying to accomplish. Ms. Hajnosz stated they will work on that.

Financial Policy Recommendations (Slide 19)

Ms. Hajnosz stated that these recommendations are based on the specific conditions here at DOW.

Operating-Related Financial Policies

- Operating revenue pays for all O&M and debt service
- Build up WUF operating reserve from current policy of 30% of prior year operating revenues (~$8.7M) to 160 days of annual O&M + debt service over 3 years (~$19M by FY 2029) Ms. Hajnosz stated that she thinks the industry has moved away from this policy and is looking to base their operating reserves on costs. DOW is looking to change that to base the operating reserve on 160 days of annual O&M plus the annual debt service payment, which equates to about $19 million a year with the intent to build up to that number and keep that number. Another reason they don't want to base the operating reserve on revenues is because the revenue number covers both operations and capital, and they want the operating reserve to reflect operating costs, not capital. She added the importance of keeping operating costs and income to cover that to be separate from capital costs, revenues and other funds coming in to pay for capital.
- Maintain positive annual operating cash flow (minimum 1.0 debt service coverage)
- Target of 1.50 debt service coverage; to be achieved in concert with capital scenarios
- Ms. Hajnosz stated once debt service is covered, they are targeting 1.50 debt service coverage, which provides high assurance from a financial sustainability and resilience standpoint and will provide extra cash to finance all your capital.

Capital-Related Financial Policies

- Establish WUF capital reserve targeted to equal average annual capital program; will vary by capital scenario (e.g. $16.5 M or $34 M): achieve by year 5 (FY 2031)

- Maintain debt-to-fixed asset ratio at <=35%; currently at 21% and projected to decrease over time as existing debt obligations are paid off

Ms. Hajnosz stated that these are the financial guidelines they are applying in addition to the capital spending scenarios to figure out what the ratings are.

Baseline Operations Analysis FY 2027-FY 2031 (Slide 20)

Ms. Hajnosz explained that the bars represent the O&M and existing debt service, and the bottom line (dotted) represents the revenue under the current rates, which we are not making debt service payments with, and the top (solid) line represents revenues under proposed rate adjustments. The results are that a 23.5% rate adjustment is needed in fiscal year 2027.

Key Assumption

- Incorporates recommended operating policy targets
- FY 2026 operating budget serves as basis for revenue and expense projections
- Operating Revenues
  - Annual customer growth: 0.80% per historical review
  - ~83% progress on improved meter reads; complete by FYE 2028
  - Interest earnings on cash balances: 3.0%
- Operating Expense
  - Budgeted vacant positions (~20%) assumed to be filled
  - Annual cost escalation: 3.5%
- Debt service per existing Bonds and SRF loans

Ms. Hajnosz stated they do not want to over over-project revenues or under-project expenses, so they give a little bit more in expenses. The delta is 23.5% rate adjustment needed to close the gap.

Strategy for Managing Debt Service (Slide 21)

Ms. Hajnosz explained that the goal is to keep debt levels relatively even to avoid big rate spikes to cover more debt. Looking at the existing debt profile which shows a drop in debt as historical SRF loans and outstanding bonds get paid off. Projecting new debt to replace existing debt really helps give flexibility in making future debt decision. With the level of rate increases being discussed, there will be high levels of cash, so there won't be a need for a lot of debt, but it will provide some really good debt ratios to give you that capacity. This is what they are seeing in other utilities where doing this 10-year debt projections offer some flexibility if there is a big emergency.

Rate Scenario Results FY 2027-FY 2036 (Slide 22)

The rate adjustments for all 3 scenarios span a 10-year time period to allow the annual capital expenditure levels to build up to the levels needed as reflected in the Water Systems Investment Plan (WSIP).

Scenario 1 for a $16.5 million spend per year shows a 25% rate increase for 2027, another 25% rate increase for 2028, 6% from 2029 through 2031, and then 0% for the remaining 5 years. The cumulative rate impact for the 10-year scenario is 86%. The historical lookback shows that if rate increases had been applied back in 2015, the cumulative rate impact today would have been 55%.

Scenario 3 for a high $34 million per year CIP shows a 30% increase for 2027 and 2028, a 15% increase from 2029 through 2031, and a 3.5% increase for the remaining 5 years. That 3.5% is encouraging having rate increases every year at a minimum of 2% or 3%. That could be done through a rule change so that even if you don't have those numbers, the Department could say that rates could go up or be adjusted for CPI (Consumer Price Index)

Rate Scenario Results FY 2027 – FY 2036 (Slide 23)

In the interest of time, Ms. Hajnosz focused on Scenarios 1 and 3, but would take questions on any of the scenarios listed.

Scenario 1

For $16.5 million capital spend per year, they are coming up with a total of first 5-year spend of $81.3 million; a total time period of 10 years is $181.5 million. The average annual capital spend for the first 5 years, which includes the budget, is about $13.6 million per year; $16.5 million for the total 10 year time period.

Scenario 3

Over the first 5 years we will spend about $104 million; $373 million over the total 10 year time period. The annual average spend over the first 5 years is $174 million, which includes the budget year; average annual capital spend over the 10-year period is $34 million.

Staff augmentation is only included for scenario 3, but to address Board member Fujikawa's question, Ms. Hajnosz stated they will be including about $0.5 million for Scenario 1, and $1 million for Scenario 2.

Chair Simonton asked if Scenario 3 is achievable in any form in terms of engineers to design the plans, staff to execute them, contractors to do the work, materials supply on-island, etc.? Mr. Kagimoto stated he thinks that would be pushing the limits in terms of both in-house capabilities and the availability of contractors. The purpose of this scenario from an Engineering analysis standpoint is to consider the infrastructure upgrades that are needed, but it would be a very big lift to accomplish. Ms. Simonton stated from a practical perspective, to look at what the Department is currently doing and expect to be able to get there in a year or two is not realistic, though it is a great piece of information to have. In looking at this information, is there any value in potentially creating a Scenario 1.5 depending on what that does for our restriction areas, and whether it is worth taking additional time and energy from the consultants. Mr. Kagimoto stated that looking at the $16 million on an annual basis sounds like a decent amount, but when the project spans over 20 years, it doesn't really move the needle. Meanwhile, infrastructure that didn't get touched is 20 years older at that point. The Department is definitely motivated to do as much as it can, but there is also a practical aspect that needs to be considered. Ms. Simonton stated she wouldn't support starting at Scenario 3 because that would be a set up for failure, but maybe they could start with a Scenario 1.5 knowing you want to get to Scenario 3. She also made a plea to future board members to have the grit to keep with it and not back down because they don't want to be the ones raising rates. Ms. Hajnosz clarified that even at $16.5 million, the Department will not get there right away, which is why they did it over the 10-year time period, knowing that in the first 5 years, you're not going to get close to $34 million. However, in the last 5 years, they are over that doing $40 or $50 million a year, so it averages out. They have to be compelling and persuasive in how they get to these levels of capital execution.

Ms. Simonton asked how much of Water Plan 2020 has been completed to which the response was 40% of projects. Mr. Kagimoto stated that the goal is to be able to have a framework in place for the Board to assess, so if the Department is over-promising and not achieving, some of the future projects can be adjusted. The intent is not to just put in for the 10 years and hope all of

these things will happen, the Department needs to be accountable for what they deliver. Ms. Simonton agreed that you want to be able to achieve those goals because missing them gives the Board the opportunity to pull it back because they are not being completed. Ms. Sorensen highlighted that the costs include today's construction numbers so if you have $16.5 million over the next 10 years, how far will that get you over time.

Ms. Hajnosz discussed Capital Financial Policy Targets explaining how capital will be funded, which is more than 90% cash-funded for all scenarios because a rate increase will generate a lot of cash, so there won't be as much of a need for debt. There are State appropriations at about 1% or 2%, and projected SRF Loans set at $13 million, and annual debt service is ranging between $1.2 and $1.6 million in all scenarios. The debt service coverage goal is 1.5, but it will be well exceeded because the rate increases will generate a lot of cash revenue, operating expenses will not be going up, and there won't be a lot of debt, resulting in pretty good debt ratios. Debt ratios are predicted to be less than 35%, likely peaking out at 21% in the first or second year, and operating cash reserves targets are anticipated to be reached within the 5-year time period.

10-Year Capital Scenario 1: $16.5M/YR (Slide 24)

Ms. Hajnosz explained the top left graph is the CIP spend with the bars representing annual capital expenditures over the 10-year time period – Gray bars are the new capital expenditures, the gold bars are encumbered capital at about $72 million in current contracts. They have to figure out what they are going to do with that as they are fully funded, but they wanted to include it to show that in addition to the Average Annual CIP there are these contracts for current projects that are in progress. That adds to the capital picture, especially in the first 6 years. Focusing just through 2031, the average capital is just under $14 million per year for new capital; if they add encumbered capital, it goes up to $26 million. For the next 5 years, about $20 million a year in capital will be added to get to the $16.5 million average capital spend. Looking at the big picture of encumbered projects, it was spread over 6 years, but some of these projects have been in progress for over 10 years.

The graph on the bottom left puts everything together in terms of revenue requirement – Gray bars are the O&M, Green bars are existing debt service, Yellow bars are contributions to the reserve. With new debt service coming up, it tops out going from $40 million all the way to $64 million. The dotted line shows revenue under the current rates, and the solid line shows revenues under the projected rates.

The graph on the bottom right reflects the balances of the minimum reserves for operating capital, with the operating reserve target represented by the dotted line. The top line, the capital reserve target, shows that you will hit your operating reserve target in about 2027, and 2031 is when you will hit the capital reserve target. There is a little dip around 2034 when debt service goes down.

Ms. Hajnosz acknowledged that there is a lot of information, but it is because they are trying to accomplish a lot of things in this analysis which is why they extended it over 10 years.

10-Year Capital Scenario 3: $34M/YR (Slide 26)

Ms. Hajnosz explained that capital expenditures are still going to be about $20 million, and will ramp up to about $30 to $40 million within the 5-year time period; the $34 million will be exceeded in the last 5-year time period. The chart on the bottom left shows how the fees will be

building up to those reserves, building up to the capital spend, which gives the profile for the rate adjustments shown on Slide 22.

Ms. Hajnosz stated the intent of today's presentation is to provide all of the information to the Board to consider before they return to the Board in December with any adjustments to the proposal based on today's feedback and discussion. She encouraged the Board to reach out with any additional feedback prior to the December meeting.

Comparison with Other Counties (Slide 27)

- Focus is on FY 2027 (July 1, 2026)
- Typical monthly bill assumes 12,000 gallons per month
- 5/8" meter
- Honolulu BWS and Hawaii DWS have adopted multi-year rate schedules – using FY 2027 and FY 2028 rates
- Maui DWS adopts rates annually – using FY 2026 rates
- Average bill is the average of Kauai DOW Scenario 1. Honolulu BWS, Hawaii DWS and Maui DWS for FY 2027

Monthly Bill Comparison (Slides 28 and 29)

The green bars represent Kauai DOW and show the potential rate increases for FY 2027 for each scenario as compared to the other islands for single-family 5/8" meter at 12,000 gals/month. Ms. Simonton asked if the 12,000 gals/month is based on a family of 4 at 100 gallons per day per person, is that a real average for a single family? Waterworks Controller Renee Yadao stated that for presentation purposes this is a very good example of where we stand. The slide on the next page shows the monthly bill comparisons for FY 2028

Typical Bill Changes – FY 2026 – FY 2031 (5YRs)

This slide shows the actual dollar amounts for the existing rates, and for Scenarios 1 through 3 for Fiscal Year 27 based on 12,000 gallons/month with a 5/8" meter. Ms. Simonton asked if these rates are implemented and it results in a 10% or 15% reduction in water use, could that affect some of our CIP? Ms. Hajnosz stated it could certainly affect our revenues, noting that water is so inelastic in terms of price increases and price use that there is some erosion of consumption and subsequently revenues, but it usually only happens at the very highest levels with those who have a lot of discretionary use. For a utility that has not raised its rates in over 10 years, it will be incumbent upon the Department to do a good job with public outreach and making them aware of the value of water.

Scenario 1 Monthly Service Charge Across-the-Board (ATB) FY 2027 thru FY 2036 (Slide 31)

This slide shows the usage charges for General Use and Agricultural use. Ms. Hajnosz stated the 10-year time period is shown to parry it up with the rest of the analysis even though the Board is not going to adopt a 10-year rate recommendation.

Scenario 3 Usage Charge – General Use and Agricultural Customers (Slide 31)

Scenario 3 is the high end of what was shown in Scenario 1.

The Manager's Perspective

Manager Joe Tait stated that as he has observed engineers, and there are a lot of smart ones in this room, those smart people depend on 2 things – a sustainable, provable process, and who the people are entrusted to. He expressed his trust in the engineers in the room as well as those DOW has contracted with, adding that along with the smart engineers and smart business people on the Board, there is no excuse for failure. He shared that he learned to do early on in coming to DOW – 1. Base our decisions on reality. 2. Eliminate excuses. He thinks that has happened so far during this process. Water utilities are marathoners, not sprinters, and we are looking at a marathon process, whether 5 or 10 years. He touched on a couple of things mentioned by Ms. Simonton and Mr. Fujikawa, which is that nowhere in any of this have we accounted for a major event, or for emergency response. There are no considerations for a Hurricane Iniki, or California wildfires. Another thing missing is how the public may not even think about the Water Department because 99% of it is buried, and not sticking above-ground. He recognized Water Service Supervisor II Chris Nakamura, who was present, sharing that he has put 10 repair clamps on a section of pipe that the public doesn't see. The Department knows it, we know it's going to fail again and again, but the public doesn't know it. We need to explain to the public in very simple terms that this is what we inherited, it's not something that happened yesterday. With regard to staff augmentation, Mr. Tait stated that our finance systems need to be updated, and with the supportive, talented staff leading the Fiscal group, the excuses are gone. It's now to the point where we don't say no, we say how much? Mr. Tait added that he is a big believer in things within our capacity, yes, we want to stretch goals, but the proof is in the 38% of projects that were completed in Water Plan 2020. That fact will result in DOW losing all confidence from our customers, and we will not get support for the rates. There has to be a process with the Board that not only support, but also keeps an eye on the staff. Mr. Tait shared some of his observations:

- Status quo is not going to happen, if it does, turn the lights off today
- Our water system is in emergency status today, the crew over in Operations are basically a fire department – something breaks, they run to fix it.
- We do not have critical fire protection.
- We do not have adequate system storage, transmission or distribution.
- We do not have adequate pressure in all of our systems – this would be a luxury the Department has not seen in decades
- The IT team – all two of them – are in a daily "cross-your-fingers" mode

So, these rates are not just going to be for capital projects in the field, they're going to be for capital projects in the building, systems that need replacement all while they are running to answer help calls.

Mr. Tait shared his advice on what their partnership with the Board would look like:

1. Approve a couple of years of plan at a healthy, significant increase that gets us through this initial hump of fiscal being unsure of where we get the money to maintain the Department's impending needs.
2. As we near the second year, partner with the Fiscal team to determine where we are at after 2 years of rates, and where do we stand fiscally so the Board can make a decision based on reality rather than estimating, as we are doing now.
3. Have a 5-year progressive rate structure.
4. Have the team that's in this room, specifically the outside experts, verify how the Department is doing shortly before the end of the 5-year process that we've agreed to
5. Ensure that this Board and management team in place at that time don't have to repeat this unknown process with the customer.

6. Make sure future managers report on a quarterly basis what is about to be approved or adjusted, check with fiscal on how they are doing with the plan; don't wait a year, that's too long.

Ms. Hajnosz encouraged any other important feedback, maybe specifics on which scenario the Board is leaning towards, other considerations they should be incorporating, and any other information the Board may need to make a decision. Whatever feedback is received will be incorporated as best as possible and will be reported back to the Board at the December meeting as to what those adjustments may look like. They will also include the FRC recommendation that was made back in April in that whole package. In January, they are hoping to come back to the Board and get some action and approval on a rate package, including the FRC, to go out to the public towards the end of the Quarter in March or April.

Board member Fujikawa asked to confirm his understanding that what the Board is now considering is the percentage increase we want to move forward with, and that the potential breakdown of categories will be held off until after this action. Ms. Hajnosz confirmed that the Board would be looking at approving a percentage adjustment for next July, ideally with a 2-year recommendation. Those adjustments would be applied across the board to all rates.

Ms. Hajnosz provided a background on cost-of-service and rate design, noting that these adjustments proposed are significant. To do a cost-of-service and rate design analysis, which comes up with results that change the different allocations between classes, and then add a new customer class would be at an exponential level of complexity. Collectively, they felt that it was a priority to obtain some financial stability first, and then look at customer allocations. DOW currently has a fairly aggressive rate structure in terms of conservation so they considered the benefit of doing those complex analyses right now on top of the pressing financial stability issues.

Mr. Fujikawa stated for clarification that those adjustments can be made at a later date when there will be a new round of rates to introduce. He asked if 2 years is needed to perform the analysis, or could it be done in 1 year? Ms. Hajnosz stated that they would do it based on 1 year and then move forward with adjustments made if you add or change customer classes. Mr. Kagimoto added that their current evaluation was two-fold to address both the significant rate increase and to add the customer classes, which would have been a lot to undertake in one fell swoop. The other consideration was the amount of time it would take to do that, so it was decided to get the Department more financially stable sooner knowing there are improvements and adjustments that can still be made. He noted that one of the things mentioned earlier in the presentation identified our reserves at $31 million, of which $13 million was already going to be used; the longer we push out the implementation of a rate increase will prolong the amount of time we are dipping into our reserves. Once the Department is a the point of being more financially stable, they can then figure out how to possibly introduce additional customer classes, etc.

Mr. Fujikawa stated that his reason for asking for clarification is that the recommendation was to approve for 2 years, so he is wondering if the assessment can be done in 1 year, and then introduce the new classes for the second year; is that realistic or do the complexities span into additional years which would warrant the 2 year approval. He stated that he understands the first year and the need to try and get this approved by July, but he is contemplating more of the following year. Ms. Hajnosz stated if they are able to do it in time to get it to the second year,

there would need to be more public outreach, and a rule change process. Maui did it, but it took longer than a year to get the Board comfortable with all of it. In response to Mr. Fujikawa, Board member Kodani stated that timing-wise, even if we start next year, it's going to likely take a year for the consultants to do their study. Maybe if the Board is leaning toward changing or adding categories, it would be something to advise the public that may be coming up and keep them informed of what is being considered.

Mr. Kagimoto stated one of the bigger concerns that have come up in public meetings was for people of fixed incomes, specifically our kupuna. The across-the-board rate doesn't provide any difference for that, which was a motivator to get to a point to see that they don't make things unaffordable for those on a fixed income.

STAFF REPORTS

1. **Fiscal**
   a. Monthly dashboard – Number of Service Calls, Number of Walk-in Customers, Number of Customer Emails and Correspondence, Number of Customer Rebills, Accounting Highlights, Transponder Replacement highlights and progress, Staff Overtime hours
   b. Budget Report for October 2025

2. **Operations**
   a. Monthly dashboard – Annual Financial Impact Overview, Staff Overtime Hours, Budgeted and Vacant Positions, Services Received/Completed, Highlights: New Hires and Recruitment, DSO/WTPO Exams conducted

3. **Engineering**
   a. Monthly dashboard – Budgeted and Vacant Positions, Staff Overtime Hours, Projects In Design, In Construction, Completed; Water Resources and Planning Statistics – Customer Requests, Applications and Permits, Service and Records Requests, Number of Backflow Devices tested
      i. Capital Improvement Plan (CIP) Project Highlights/Status Updates:
         - Kapa'a Homesteads 325' Tanks
         - Pu'u Pane 1.0 Million Gallon Tank
         - Kalāheo Water System Improvements
         - University of Hawai'i Experimental Station 605' Tank
         - Hā'ena 0.2 MG Tank
         - Kīlauea Wells 1 & 2 MCC, Chlorination Facilities
         - Kūhiō Hwy (Hardy-Oxford) 18" Main Replacement
      ii. DOW Project Highlights/Status Updates:
         - Water Systems Investment Plan (WSIP)
         - Kaua'i Water Use and Development Plan (KWUDP)
         - As-Needed Grant Writing and Preparation Services: WaterSMART Grant for Advanced Metering Infrastructure (AMI) Meters

4. **Administration**
   a. Human Resources – updates on Personnel Vacancies

5. **Manager and Chief Engineer**
   a. Reports to Manager:

1. Fourth Amendment to Contract No. 721 with Brown and Caldwell, Job No. 21-01, Water Systems Investment Plan
2. Sixteenth Amendment to Contract No. 535 with Fukunaga & Associates, Inc., Job No. WRP 01 FY05-06, Kaua‘i Water Use and Development Plan (WUDP) Update

TOPICS FOR NEXT BOARD OF WATER SUPPLY MEETING: *(December)*

1. Discussion and Possible Action on the Water Minimization Plan and Water Service Agreement for Namahana Education Foundation
2. Discussion and Possible Action to Request Board Approval of the Indemnification Provision in the Construction Right-of-Entry Agreement between the Board of Water Supply, County of Kaua'i and The Harry and Jeanette Weinberg Foundation Incorporated
3. Confirmation of Board Committee Appointments for 2026

TOPICS FOR FUTURE BOARD OF WATER SUPPLY MEETING:

EXECUTIVE SESSION:
Pursuant to Hawai'i Revised Statues (HRS) §92-7(a), the Board may, when deemed necessary, hold an executive session on any agenda item without written public notice if the Executive Session was not anticipated in advance. Any such executive session shall be held pursuant to HRS §92-4 and shall be limited to those items described in HRS §92-5(a).

ADJOURNMENT
The meeting was adjourned at 11:20 a.m.

Respectfully submitted,

Cherisse Zaima
Commission Support Clerk

New Business

DEPARTMENT OF WATER

County of Kaua'i

"Water has no Substitute – Conserve It!"

MANAGER'S REPORT No. 26-16

December 18, 2025

Re: Discussion and Possible Action on Namahana Education Foundation's Water Use Minimization Plan

RECOMMENDATION:

It is recommended that the Board approve Namahana Education Foundation's Water Use Minimization Plan.

FUNDING: N/A

BACKGROUND:

At the August 21, 2025 Board Meeting, the Board made the following motions:

Motion 1: The Board finds that there is legitimate public interest in granting water service to Namahana Charter School.

Motion 2: The Board hereby directs the Water Department to address the deed restriction, the waiver and release form, and any other documents preventing the site from obtaining water service.

Motion 3: The Board also requires that prior to building permit approval, the applicant provide the Board of Water with a water minimization plan that will be subject to Board review, amendment, and approval.

The Department has coordinated with Namahana Education Foundation on the Water Use Minimization Plan and is ready to present it for Board action.

OPTIONS:

Option 1: **Approve Manager's Report as recommended.**

Pro: DOW will move forward with the additional steps for Namahana Education Foundation to obtain water service.

Con: DOW will retain the added obligation of confirming that the Water Use Minimization Plan is being adhered to.

Option 2: **Do Not Approve Manager's Report as recommended.**

Pro: DOW will not retain the added obligation of confirming that the Water Use Minimization Plan is being adhere to.

Con: DOW will not move forward with the additional steps for Namahana Education Foundation to obtain water service.

JK/crz

Attachment(s): Namahana Education Foundation's Water Minimization Plan

MEMORANDUM

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Suite 170
Honolulu, HI 96813
808.523.5866
www.g70.design

TO:	County of Kauai Department of Water Water Resources and Planning Division 4398 Pua Loke Street Lihue, HI 96766		
ATTENTION:	Regina Reyes-Flores		
DATE:	11/7/2025	**EMAIL/FAX:**	
PROJECT:	Namahana Public Charter School – Phase 1	**PROJECT NO:**	223008-01
SUBJECT:	Proposed Water Use Minimization Plan (R9)	**NO. OF PAGES:**	16

On behalf of Namahana Education Foundation (the "Foundation"), and in response to directives issued during the Department of Water Board meeting, held on August 21, 2025, the Foundation hereby submits for consideration the following proposed Water Use Minimization Plan related to the anticipated future development at Namahana Public Charter (the "School").

Project Overview

The future development is structured in multiple phases. The initial scope, encompassing Phases 1A (August 2026-June 2027) and 1B (August 2027-June 2028), is projected to accommodate up to 120 students upon completion. Phases 1A and 1B are anticipated to include the construction of facilities with dedicated plumbing fixtures as detailed herein. Specifically, each phase will include the addition of 2 Advisory Buildings (providing 4 classrooms) and 1 bathroom structure. Modifications between phases are expected to reflect adjustments in student enrollment and faculty numbers, in alignment with the phased facility buildout.

Buildings	Fixtures (per building)	Notes
(4) classrooms	0	Removed sink, water bottle filler, (2) hose bibs from each
(2) bathrooms	5 – water closets 5 – lavatories 2 – drinking fountains 2 – hose bibs 1 – mop sink	See page 2 for detailed fixture unit breakdown for informing size of meter
(0) maker space	0	Removed (2) sinks
(0) cafeteria	0	No food prep or service space to be included in this phase of work
(0) faculty break room	0	No faculty breakroom with plumbing fixtures to be included in this phase of work

Enrollment	Phase 1A (Year 1)	Phase 1B (Year 2)
	60 students	120 students
	7 teachers (full-time) 3 admin (full-time) 4 elective staff (part-time, 2 days/wk)	13 teachers (full-time) 3 admin (full-time) 4 elective staff (part-time, 2 days/wk)

Design and Operational Considerations

Certain design and operational considerations were presented to the Board during the August 21, 2025 meeting. Subsequent to that meeting, the Foundation engaged in coordination meetings with County representatives to refine the project scope. Through this process, initial planning documents reflecting approximately 134 fixture units were reduced to approximately 109 fixture units through revised design parameters and operational modifications.

Through these discussions, it was mutually recognized that meter sizing is determined by fixture unit calculations under applicable plumbing codes, whereas actual water consumption reflects operational usage patterns. It was further acknowledged that reducing fixture count does not necessarily correlate to proportional reductions in actual water usage. The Foundation has addressed both aspects through design modifications and operational considerations that account for realistic usage patterns.

Design considerations:

- Use of metering faucets – adjustable run-time for water savings and user convenience
- Consider removal of facility shower fixtures
- Use of low-flow toilet fixtures
- Use of flush valves, due to durability for high-traffic school use
- Automated flow monitoring plan with submetering of different uses or buildings
- Install water flow and pressure reducers
- Water catchment approach could be used to supplement irrigation of landscape/gardens for curriculum needs (note below, use of drought-tolerant landscaping)

Operational considerations:

- Limit fixture usage to school operation hours of approximately 7am to 5pm, Monday through Friday. Of note, for off-peak summer months of June and July, class will not be in session and water usage will further be reduced.
- Provide drought-tolerant landscaping, which does not require additional irrigation
- Reduce the quantity and use of exterior hose bibs, with keyed valves to limit use for school maintenance needs
- To regulate use of exterior fixtures beyond typical school hours, the owner retains the ability to implement mitigation measures, including isolating exterior fixtures via valve shutoffs, as conditions warrant.

Planning Projections

The Foundation has also prepared preliminary planning projections, as follows:

- Phase 1A projected usage: 478 gallons per day
- Phase 1B projected usage: 918 gallons per day

These projections are provided for informational and transparency purposes to illustrate the planned distribution and types of plumbing fixtures per user and are calculated in accordance with Table 2 of the LEED (Leadership in Energy and Environmental Design) baseline indoor water use methodology and best practice assumptions.

Actual Use Data

In further support of the proposed plan, the Foundation has obtained actual water consumption data from its current temporary school facility at Kula School. Water usage data was collected over a representative 30-day period, specifically from August 12, 2025 through September 11, 2025, reflecting typical operational conditions:

- Total consumption: 37 kilogallons (kgal)
- Daily average: 1,233 gallons per day serving approximately 120 students and staff

This empirical data is provided to demonstrate the School's real-world operational water demand and to provide context for the Board's consideration of the proposed infrastructure.

Comparison to County Planning Standards

Notably, the County's planning standards as outlined in Table 100-18 (Domestic Consumption Guidelines) project an average daily demand of 60 gallons per student for schools. Applied to the School's student population of 120, this County standard would anticipate water consumption of approximately 7,200 gallons per day. The School's documented actual usage of 1,233 gallons per day represents approximately 17% of the County's planning benchmark.

This substantial variance between the County's planning guidelines and the School's demonstrated operational efficiency underscores the School's commitment to water conservation and supports the adequacy of the proposed infrastructure.

Conclusion and Request

Based on the reduced fixture count of 108.5 units, applicable plumbing codes, the operational requirements necessary to serve the student population in Phases 1A and 1B, and the documented actual consumption patterns, the Foundation respectfully submits that a 1.5-inch meter connection represents the minimum adequate infrastructure to support the School's anticipated water demand, reflecting the use of flush valve toilets, chosen in consideration of maintenance needs.

The Foundation will enter into a separate Water Service Agreement with the County, which will reference this Water Use Minimization Plan to establish water consumption parameters for the phased development. The Water Service Agreement is expected to reference water consumption of 600 gallons per day (GPD) for Phase 1A and 1,100 gallons per day (GPD) for Phase 1B, with such parameters supported by the design considerations, empirical data, and planning projections outlined herein.

The Foundation respectfully requests the Board's approval of this Water Use Minimization Plan and authorization for a 1.5-inch meter connection.

Attachments:

- Itemized fixture unit count calculations
- Water usage calculations for Phase 1A and 1B
- Table 100-18 (Domestic Consumption Guidelines)
- Drawings:
    - C07 – Utility Plan 1 – see color-coded mark-up
    - C08 – Utility Plan 2 – see color-coded mark-up
    - A02 – Site Plan – Phase 1
    - A20 – Advisory Building Plan – with Delta D revisions
    - A50 – Restroom Building Plan – with Delta D revisions
    - P05 – Advisory Plumbing Plan – with Delta D revisions
    - P07 – Restroom Building Plumbing Plan – with Delta D revisions
    - P09 – Advisory Building Plumbing Diagrams – with Delta D revisions
    - P10 – Restroom Building Plumbing Diagrams – with Delta D revisions

NAMAHANA SCHOOL - PHASE 1

as of 2025.10.13

references 2018 UPC, tables 610.3, 610.10

FIXTURE UNIT ITEMIZATION – Phase IA: Restroom 1			
	NEW WORK		
FIXTURE TYPE	**QTY**	**FU EA**	**FU TOTAL**
LAV	5	1.0	5.0
WC (flush valve)	4	10.0	40.0
WC (flush tank)	1	2.5	2.5
MOP SINK	1	3.0	3.0
SHOWER	0	1.6	0.0
DRINKING FOUNTAIN	2	0.5	1.0
HB (1st)	1	2.5	2.5
HB (ADD'L)	1	1.0	1.0
SUBTOTAL	-	-	**55.0**

FIXTURE UNIT ITEMIZATION – Phase IB: Restroom 2			
	NEW WORK		
FIXTURE TYPE	**QTY**	**FU EA**	**FU TOTAL**
LAV	5	1.0	5.0
WC (flush valve)	4	10.0	40.0
WC (flush tank)	1	2.5	2.5
MOP SINK	1	3.0	3.0
SHOWER	0	1.6	0.0
DRINKING FOUNTAIN	2	0.5	1.0
HB (ADD'L)	2	1.0	2.0
SUBTOTAL	-	-	**53.5**

				AWWA (GPM)
TOTAL			**108.5**	**70.0**
Previous total			***134.2***	***76.0***

Meter Size	AWWA (capacity/ gpm)	Factor based on 5/8
5/8 inch	20	1
3/4 inch	30	1.5
1 inch	50	2.5
1-1/2 inch	**100**	**5**
2 inch	160	8

NAMAHANA SCHOOL - BATHROOM 1 & 2
Wastewater Flow Calculations
10/13/2025

August 2026-June 2027 — PHASE 1A (Year 1)

60 students
7 teachers (full-time)
3 admin (full-time)
1.6 elective (part-time, 4 teachers at 2 days/wk)

FIXTURE TYPE PER USER (NOTE 6)	FLOW RATE	USES PER DAY	DURATION (MIN)	QTY (USER)	GAL/DAY	NOTE
WATER CLOSET (MALE STUDENT)	1.6 GPF	3	N/A	30	144	**1**
WATER CLOSET (FEMALE STUDENT)	1.6 GPF	3	N/A	30	144	**1**
WATER CLOSET (MALE EMPLOYEE)	1.6 GPF	3	N/A	5	24	**1**
WATER CLOSET (FEMALE EMPLOYEE)	1.6 GPF	3	N/A	6.6	31.68	**1**
LAVATORY (STUDENTS)	0.5 GPM	3	0.5	60	45	**1**
LAVATORY (EMPLOYEES)	0.5 GPM	3	0.5	11.6	8.7	**1**
MOP SINK (FIXTURES)	4 GPM	1	15	1	60	**3**
DRINKING FOUNTAIN	0.25 GAL/USE	1	N/A	72	18	**4**
HOSE BIBB	8 GPM	-	-	-	2.63	**5**
			TOTAL	**478.01**	**GPD**	

August 2027-June 2028 — PHASE 1B (Year 2)

120 students
13 teachers (full-time)
3 admin (full-time)
1.6 elective (part-time, 4 teachers at 2 days/wk)

FIXTURE TYPE PER USER (NOTE 6)	FLOW RATE	USES PER DAY	DURATION (MIN)	QTY (USER)	GAL/DAY	NOTE
WATER CLOSET (MALE STUDENT)	1.6 GPF	3	N/A	60	288	**1**
WATER CLOSET (FEMALE STUDENT)	1.6 GPF	3	N/A	60	288	**1**
WATER CLOSET (MALE EMPLOYEE)	1.6 GPF	3	N/A	8	38.4	**1**
WATER CLOSET (FEMALE EMPLOYEE)	1.6 GPF	3	N/A	9.6	46.08	**1**
LAVATORY (STUDENTS)	0.5 GPM	3	0.5	120	90	**1**
LAVATORY (EMPLOYEES)	0.5 GPM	3	0.5	17.6	13.2	**1**
MOP SINK (FIXTURES)	4 GPM	2	15	1	120	**3**
DRINKING FOUNTAIN	0.25 GAL/USE	1	N/A	138	32.5	**4**
HOSE BIBB	8 GPM	-	-	-	2.63	**5**
			TOTAL	**918.81**	**GPD**	

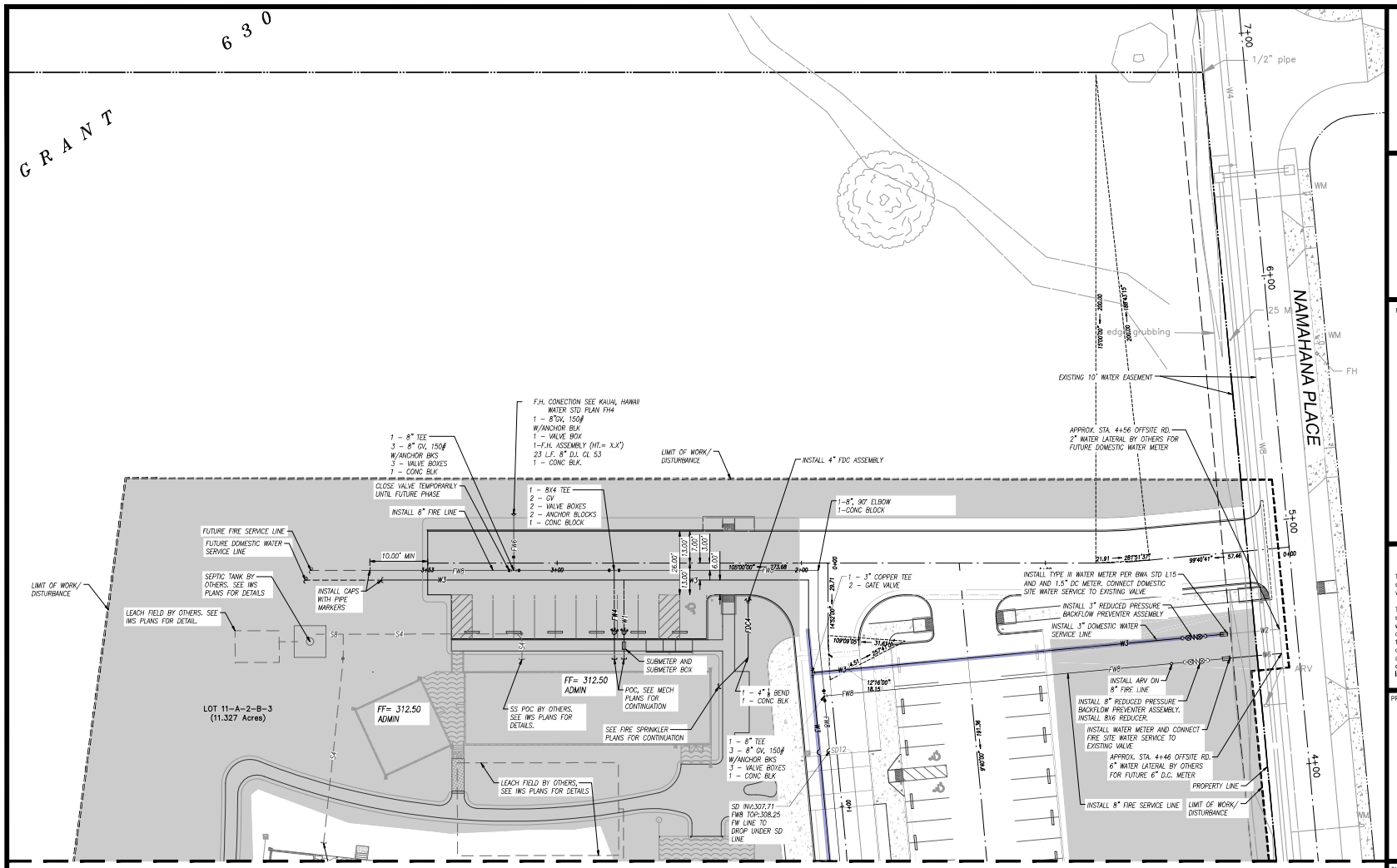
ASSUMPTIONS:

1. FLUSH RATES/FLOW RATES, USES PER DAY, AND DURATION VALUES ARE BASED ON TABLE 2: LEED BASELINE INDOOR WATER USAGE.
2. STUDENTS AND TEACHERS ARE SPLIT EVENLY BETWEEN MALE AND FEMALE. USAGE IS SPLIT EVENLY AMONG BATHROOM 1 AND BATHROOM 2 BUILDINGS.
3. IT IS ESTIMATED THAT THE MOP SINK WILL RUN FOR 15 MINUTES ON AVERAGE DAILY FOR EACH BATHROOM.
4. ASSUMING EACH STUDENT AND STAFF MEMBER FILLS THEIR WATER BOTTLE ONCE A DAY. ASSUMING A 1 LITER WATER BOTTLE EQUAL TO APPROXIMATELY 0.25 GALLONS.
5. IT IS ESTIMATED THAT HOSE BIBB WILL BE USED TWICE PER YEAR FOR 30 MIN DURATION EACH TIME FOR EACH BATHROOM. TOTAL USE FOR ALL BATHROOMS IS 960 GALLONS PER YEAR. AVERAGE DAILY USE IS 2.63 GPD. (8 GPM X 30 MIN X 2 (TWICE/PER) X 2 (BATHROOMS)/365 DAYS = 2.63 GPD)
6. THE CALCULATION IS FOCUSED ON THE USE OF THE FIXTURES BY OCCUPANTS. THE ACTUAL QUANTITY OF PLUMBING FIXTURES IS NOT PART OF THIS CALCULATION.

DIVISION 100 - PLANNING

Table 100-18 - DOMESTIC CONSUMPTION GUIDELINES				
AVERAGE DAILY DEMAND*				
ZONING DESIGNATION	HAWAII	KAUAI	MAUI	OAHU
RESIDENTIAL:				
Single Family or Duplex	400 gals/unit	500 gals/unit	600 gals/unit or 3000 gals/acre	500 gals/unit or 2500 gals/acre
Multi-Family Low Rise	400 gals/unit	350 gals/unit	560 gals/unit or 5000 gals/acre	400 gals/unit or 4000 gals/acre
Multi-Family High Rise	400 gals/unit	350 gals/unit	560 gals/unit	300 gals/unit
COMMERCIAL:				
Commercial Only	3000 gals/acre	3000 gals/acre	6000 gals/acre	3000 gals/acre
Commercial/Industrial Mix	--	5000 gals/acre	140 gals/1000 sq. ft.	100 gals/1000 sq. ft.
Commercial/Residential Mix	--	3000 gals/acre	140 gals/1000 sq. ft.	120 gals/1000 sq. ft.
RESORT (To include hotel for Maui only)	400 gals/unit (1)	350 gals/unit	350 gals/unit or 17000 gals/acre	350 gals/unit or 4000 gals/acre
LIGHT INDUSTRY:	4000 gals/acre	4000 gals/acre	6000 gals/acre	4000 gals/acre
SCHOOLS, PARKS:	4000 gals/acre or 60 gals/student	4000 gals/acre or 60 gals/student	1700 gals/acre or 60 gals/student	4000 gals/acre or 60 gals/student
AGRICULTURE:		2,500 gals/acre	5000 gals/acre	4000 gals/acre

* - Where two or more figures are listed for the same zoning, the daily demand resulting in higher consumption use shall govern the design unless specified otherwise.
(1) - Subject to special review and control by the Manager.



MATCHLINE
FOR CONTINUATION SEE DWG. C08

LEGEND

- LIMIT OF GRADING AND DISTURBANCE
- PROPERTY LINE
- LOT LINE
- EASEMENT
- D18 — EXISTING DRAINLINE AND SIZE
- SD12 — PROPOSED STORM DRAIN LINE AND INLET
- S4 — PROPOSED 4" SEWER LINE BY OTHERS
- FW6 — PROPOSED 6" FIRE SERVICE WATER LINE
- W1 — PROPOSED 1" DOMESTIC WATER LINE
- W4 — PROPOSED 4" FDC WATER LINE
- PROPOSED FDC ASSEMBLY
- PROPOSED 6" FIRE HYDRANT ASSEMBLY PER KAUAI, HI WATER STD F4
- PROPOSED BLOWOFF ASSEMBLY
- PROPOSED AIR PRESSURE RELEASE VALVE PER KAUAI, HI WATER STD V10
- PROPOSED BACKFLOW PREVENTER PER KAUAI, HI WATER STD V9
- PROPOSED SANITATION MANHOLE, BY OTHERS
- PROPOSED SANITATION CLEAN OUT, BY OTHERS
- CONCRETE SIDEWALK
- GRAVEL
- DECK - SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS
- NOT IN CONTRACT

KEY:

- PLANNED DOMESTIC WATER SCOPE
- DOMESTIC WATER SCOPE TO BE REMOVED

UTILITY PLAN 1

20 10 0 20 40
SCALE IN FEET

NOTE:
SEWER SHOWN FOR COORDINATION PURPOSES ONLY. SEE IWS AND PLUMBING PLANS

NOTE:
INSTALL THRUST BLOCKS PER COUNTY STANDARDS. IF THRUST BLOCK CANNOT BE INSTALLED USE RESTRAINED JOINT FITTINGS PER MANUFACTURER'S SPECIFICATIONS AND LENGTH REQUIREMENTS. SUBMIT PRODUCT SHEET TO ENGINEER FOR APPROVAL.

NOTE:
FUTURE PUBLIC STREET UNDER CONSTRUCTION ON NAMAHANA PLACE IS FROM RECORD AND DESIGN DRAWINGS ONLY. THE ROADWAY IS NOT YET CONSTRUCTED. ONCE CONSTRUCTED, THE DESIGN SHOULD BE VERIFIED AGAINST AS-BUILT INFORMATION PROVIDED BY THE COUNTY AND THE PRIVATE DEVELOPER BUILDING THE FUTURE PUBLIC STREET ON NAMAHANA PLACE

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

Date	Description

PERMIT SET
1/19/2024

04/30/2026

This work was prepared by me or under my supervision and construction of this project will be under my observation.

This work was prepared by me or under my supervision and construction of this project will be under my observation, (Observation of construction as defined in section 16-115-2 of the state of Hawai'i, department of commerce and consumer affairs,Hawaii administrative rules for professional engineers, architects, surveyors, and landscape architects 8/29/94).

PROJECT TITLE
NAMAHANA SCHOOL PHASE 1

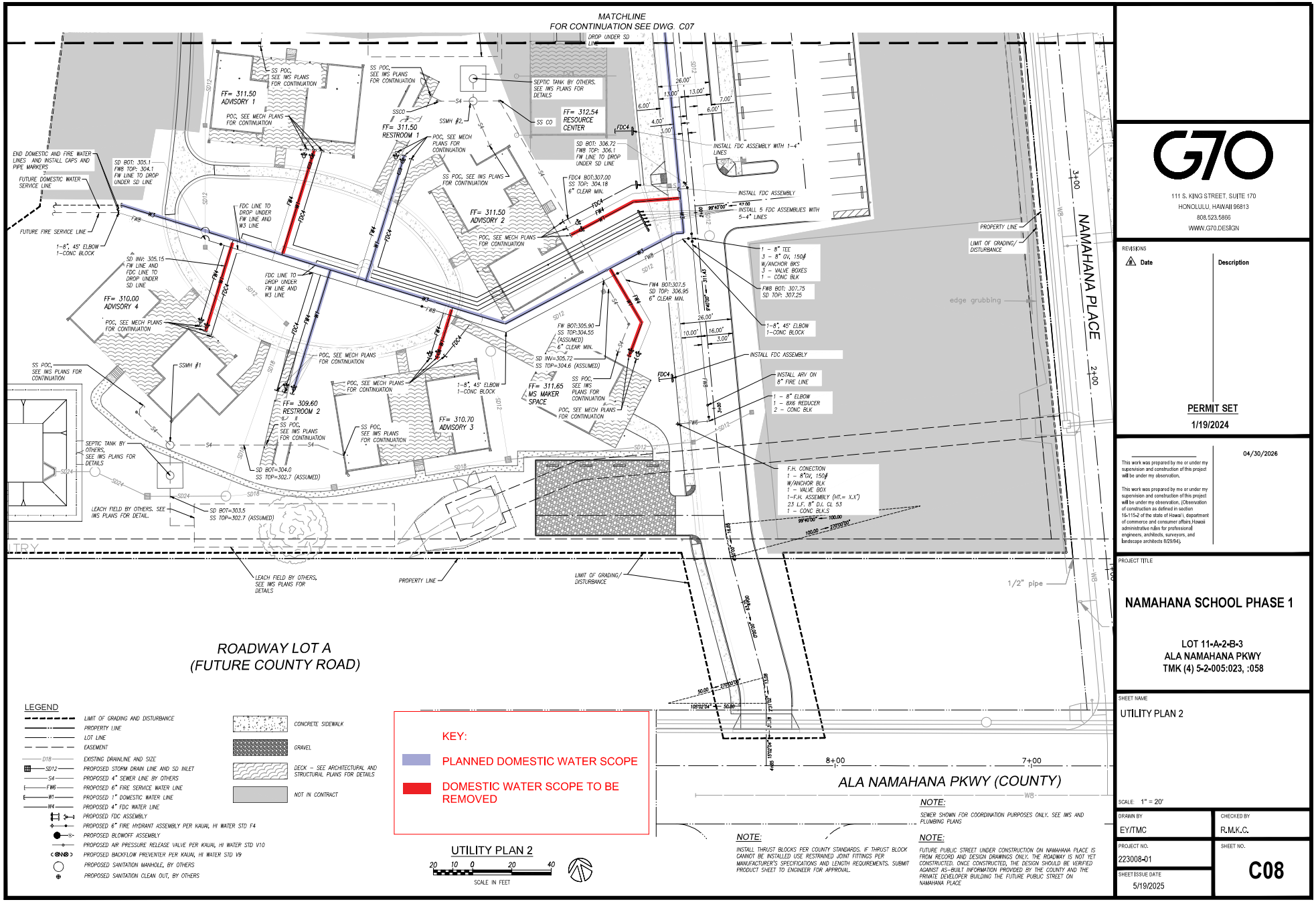
LOT 11-A-2-B-3
ALA NAMAHANA PKWY
TMK (4) 5-2-005:023, :058

SHEET NAME
UTILITY PLAN 1

SCALE: 1" = 20'

DRAWN BY	CHECKED BY
EY/TMC	R.M.K.C.
PROJECT NO.	SHEET NO.
223008-01	C07
SHEET ISSUE DATE	
5/19/2025	

PLOTTED BY: Teresa Cohen DATE: May. 19, 2025 05:34:55 PM FILE: P:\2023\223008-01 Namahana School\Civil\DWGs\223008-01 C07-C08 UTILITY PLAN.dwg



G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description
1		

PERMIT SET
1/19/2024

04/30/2026

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PROJECT TITLE
NAMAHANA SCHOOL PHASE 1

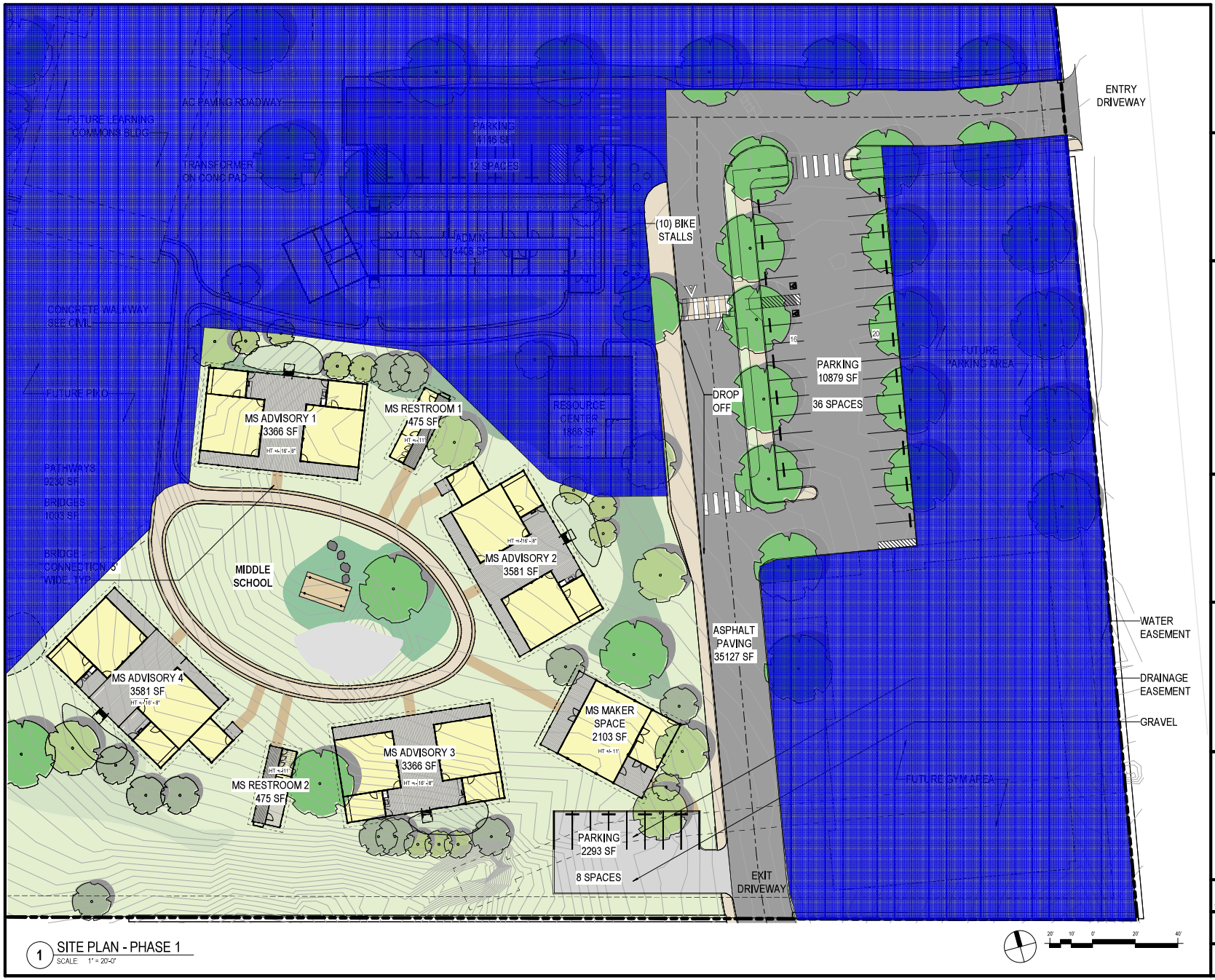
LOT 11-A-2-B-3
ALA NAMAHANA PKWY
TMK (4) 5-2-005:023, :058

SHEET NAME
UTILITY PLAN 2

SCALE: 1" = 20'

DRAWN BY	CHECKED BY
EY/TMC	R.M.K.C.
PROJECT NO.	SHEET NO.
223008-01	C08
SHEET ISSUE DATE	
5/19/2025	

PLOTTED BY: Teresa Cohen DATE: May. 19, 2025 05:34:57 PM FILE: P:\2023\223008-01 Namahana School\Civil\DWGs\223008-01 C07-C08 UTILITY PLAN.dwg



1 SITE PLAN - PHASE 1
SCALE: 1" = 20'-0"

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

Date	Description

BID SET
05/20/2025

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Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL
PHASE 1
ALA NAMAHANA PKWY
KILAUEA, KAUAI, HAWAII 96754
TMK#: (4) 5-2-005:053

SHEET NAME
SITEPLAN - PHASE 1

SCALE: 1" = 20'-0"

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO. 223008-01	SHEET NO. A02
SHEET ISSUE DATE 05/02/24	

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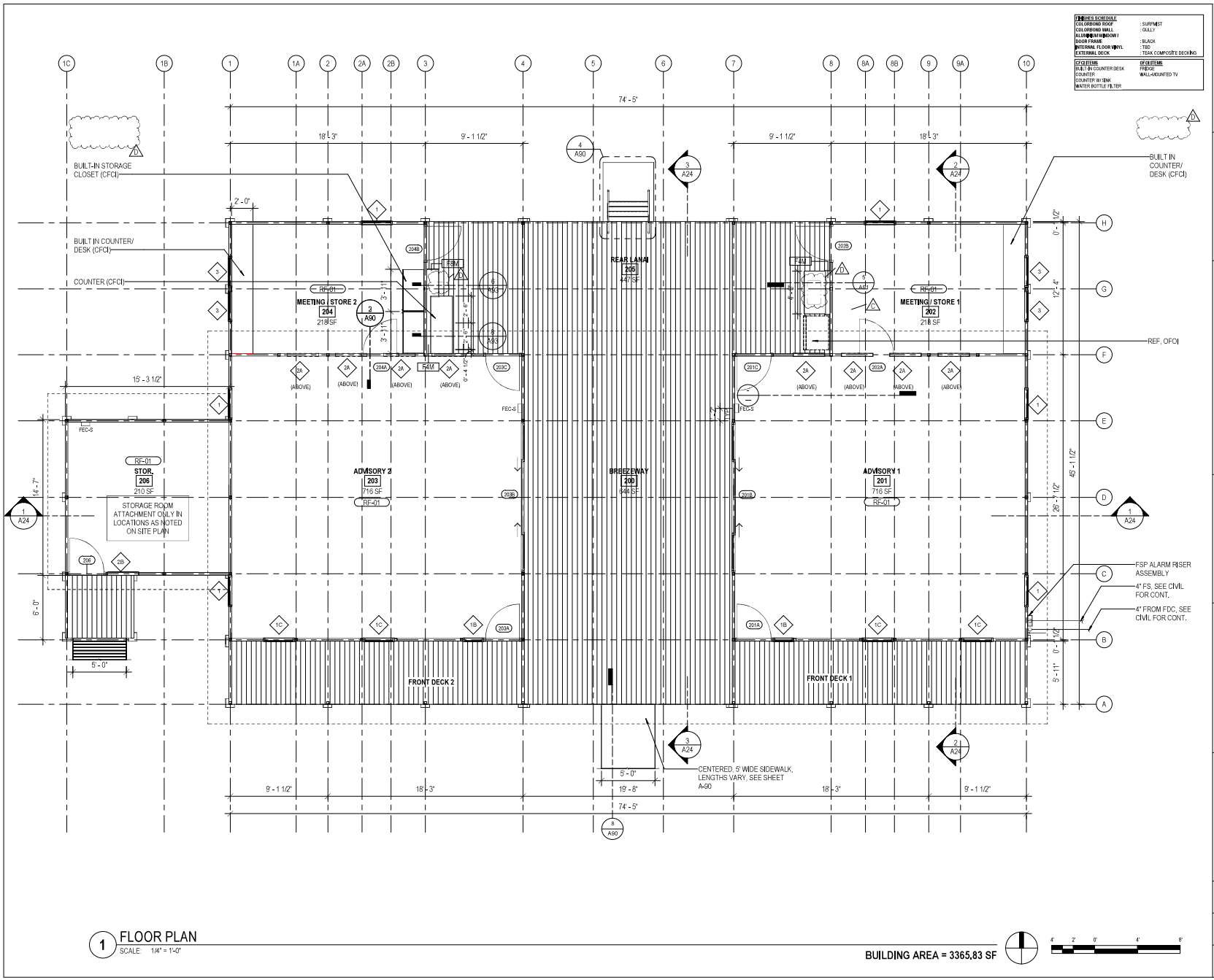

1 FLOOR PLAN
SCALE: 1/4" = 1'-0"

BUILDING AREA = 3365.83 SF

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description
C	07/24/2025	DCAB COMMENTS
D	10/06/2025	DOW COMMENTS

BID SET
05/20/2025

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License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL
PHASE 1
ALA NAMAHANA PKWY
KILAUEA, KAUAI, HAWAII
TMK#: (4) 5-2-005:053

SHEET NAME
ADVISORY BUILDING PLAN

SCALE: As indicated

DRAWN BY	CHECKED BY
CD	LH
PROJECT NO.	SHEET NO.
223008-01	A20
SHEET ISSUE DATE	
05/02/24	

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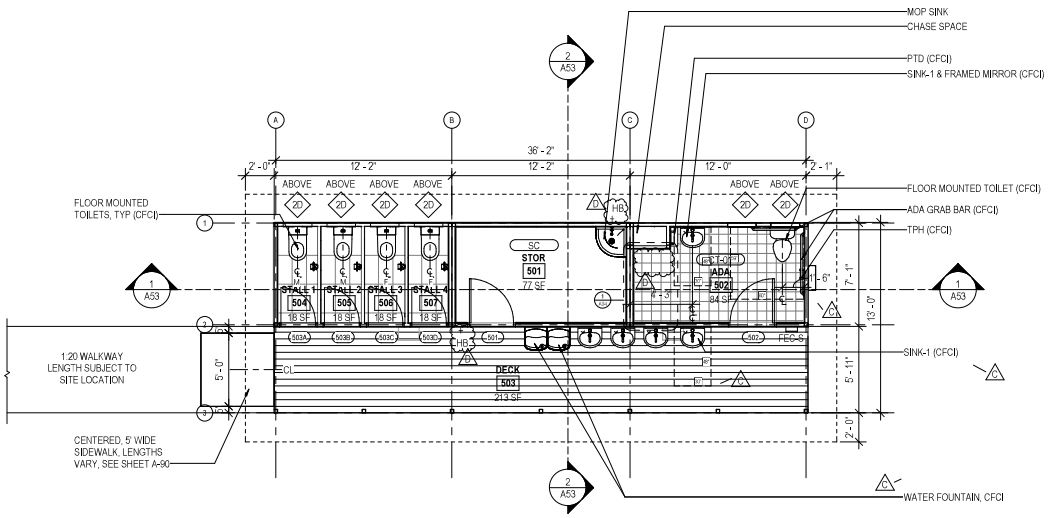
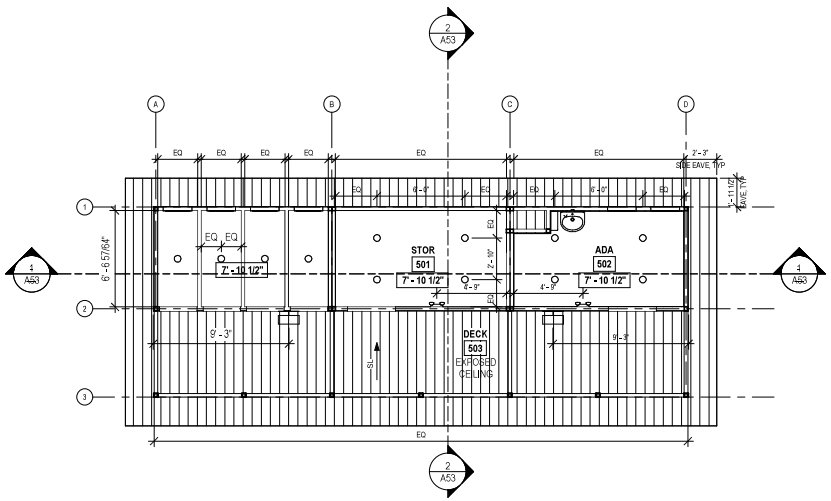


1 FLOOR PLAN
SCALE: 1/4" = 1'-0"

BUILDING AREA = 474.68 SF



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

FINISHES SCHEDULE

COLORBOND ROOF	: SURFMIST
COLORBOND WALL	: GULLY
ALUMINUM WINDOW / DOOR FRAME	: BLACK
INTERNAL FLOOR	: TBD
EXTERNAL DECK	: TEAK COMPOSITE DECKING

EQUITMENT

PTD
WATER FOUNTAIN
FLOOR-MOUNTED TOILET
SINK-1 & FRAMED MIRROR
SINK-2
ADA GRAB BAR

LEGEND

- PT GYP BD 1 LAYER
- EXPOSED CEILING / UNDERSIDE OF ROOF
- SUSPENDED LUMINAIRE
- DOWNLIGHT
- CONCEALED PENDANT FS HEAD
- UPRIGHT FIRE SPRINKLER HEAD WITH CORROSION RESISTANT FINISH
- WALL LIGHT

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description
1	06/18/2025	Addendum 01
C	07/24/2025	DCAB COMMENTS
D	10/06/2025	DOW COMMENT

BID SET
05/20/2025

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License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL
PHASE 2
ALA NAMAHANA PKWY
KILAUEA, KAUAI, HAWAII
TMK#: (4) 5-2-005:053

SHEET NAME
RESTROOM BUILDING PLAN & REFLECTED CEILING PLAN

SCALE: As indicated

DRAWN BY	CHECKED BY
CD	LH
PROJECT NO.	SHEET NO.
223008-01	A50
SHEET ISSUE DATE	
05/02/24	

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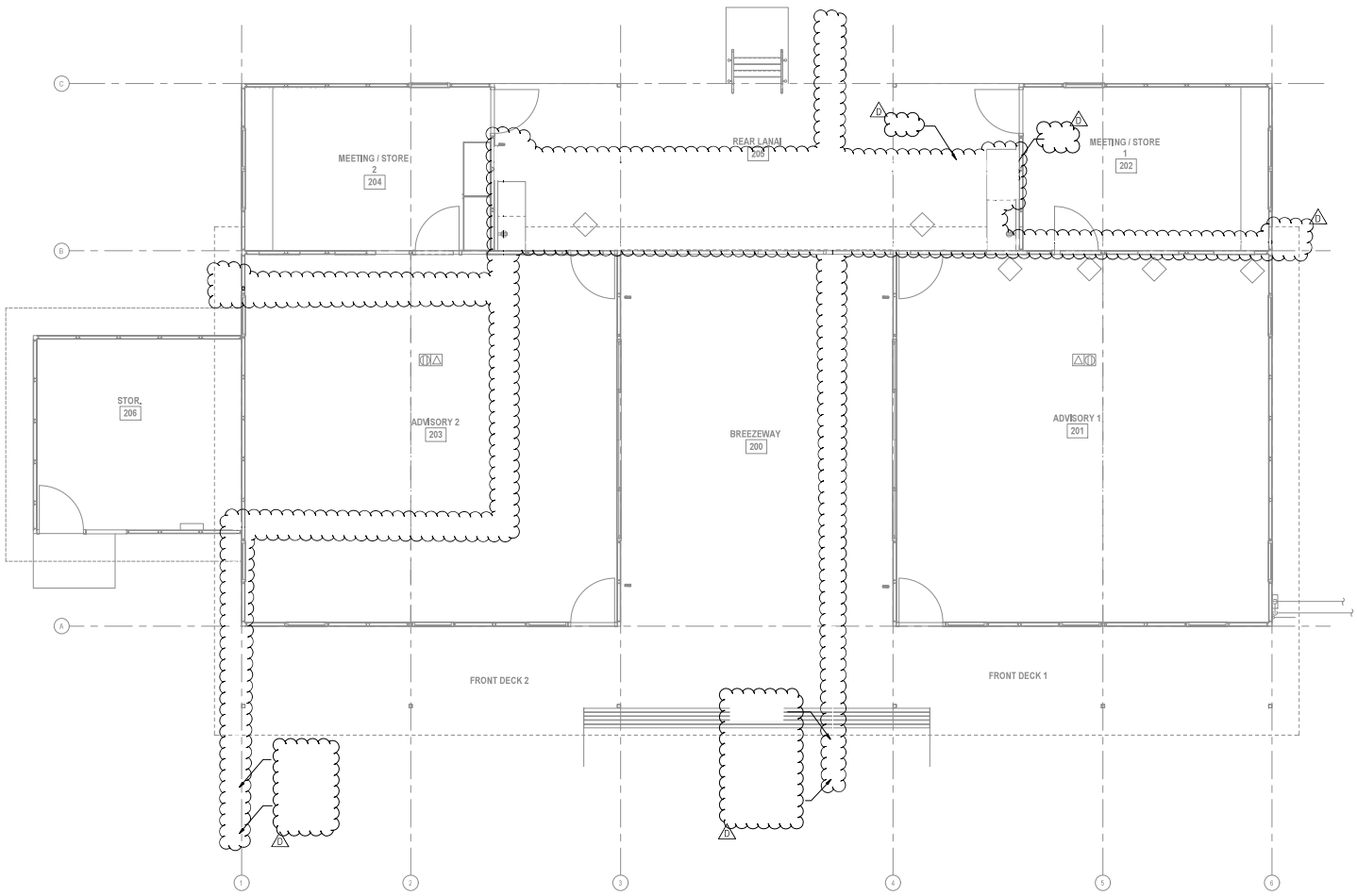

A ADVISORY BUILDING – PLUMBING PLAN
SCALE: 1/4"=1'-0"

0' 2' 4' 8'
1/4"=1'-0"

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

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Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

SCOTT H. INATSUKA
LICENSED PROFESSIONAL ENGINEER
No. 9384-M
HAWAII, U.S.A.

APRIL 30, 2026
License Expiration Date

PROJECT TITLE

NAMAHANA PUBLIC CHARTER SCHOOL

PHASE 1

PERMIT SET

SHEET NAME

ADVISORY BUILDING - PLUMBING PLAN

SCALE:

DRAWN BY	CHECKED BY
IE LLC	SI
PROJECT NO.	SHEET NO.
223008-01	P05
SHEET ISSUE DATE	
01/28/25	

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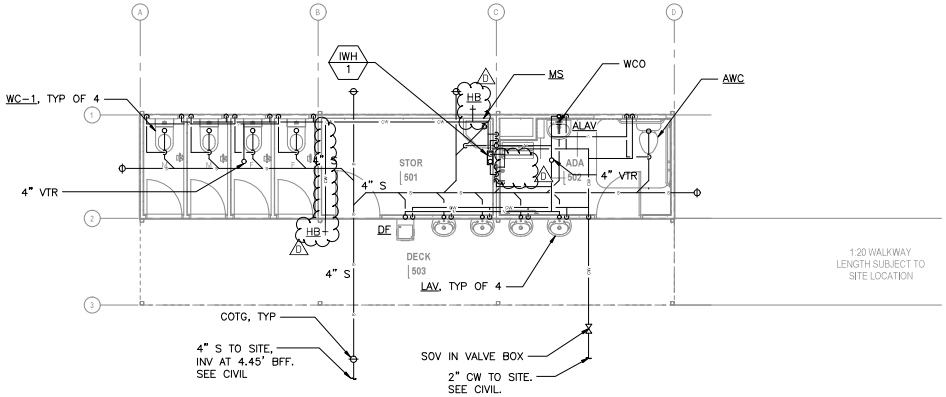

A RESTROOM BUILDING – PLUMBING PLAN
SCALE: 1/4"=1'-0"

0' 2' 4' 8'
1/4"=1'-0"

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

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HAWAII, U.S.A.

APRIL 30, 2026
License Expiration Date

PROJECT TITLE

NAMAHANA PUBLIC CHARTER SCHOOL

PHASE 1

PERMIT SET

SHEET NAME

RESTROOM BUILDING - PLUMBING PLAN

SCALE:

DRAWN BY	CHECKED BY
IE LLC	SI
PROJECT NO.	SHEET NO.
223008-01	P07
SHEET ISSUE DATE	
01/28/25	

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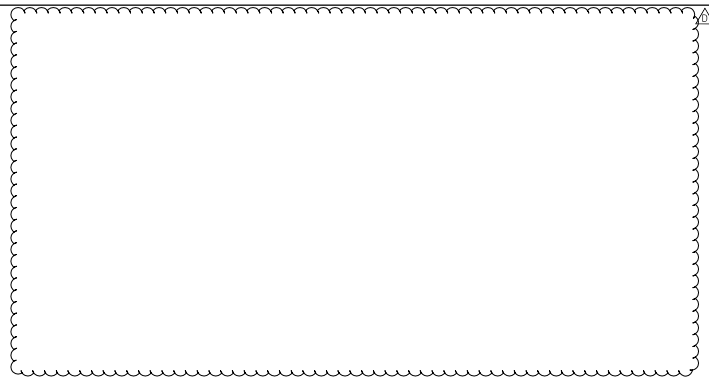

Ⓐ ADVISORY BUILDING – SANITARY DIAGRAM
SCALE: NOT TO SCALE

Ⓑ ADVISORY BUILDING – WATER DIAGRAM
SCALE: NOT TO SCALE

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

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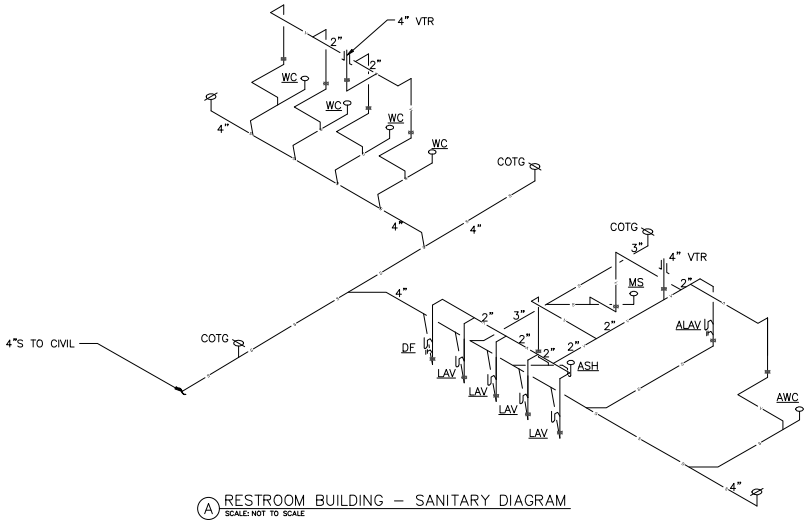
SCOTT H. INATSUKA
LICENSED PROFESSIONAL ENGINEER
No. 9384-M
HAWAII, U.S.A.

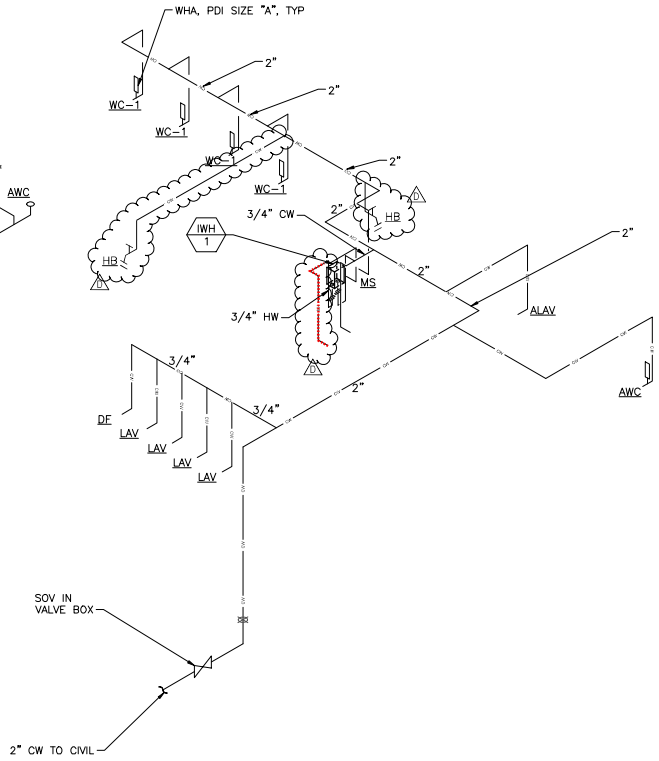
APRIL 30, 2026
License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL

FIXTURE CONNECTION SCHEDULE					
MARK	DESCRIPTION	CW	HW	S OR W	V
WC (FLUSH VALVE)	WATER CLOSET	1"	-	4"	2"
WC (FLUSH TANK)	WATER CLOSET	1/2"	-	4"	2"
LAV	LAVATORY	1/2"	1/2"	2"	2"
SK	SINK	1/2"	1/2"	2"	2"
MS	MOP SINK	3/4"	3/4"	3"	2"
HB	HOSE BIBB	3/4"	-	-	-
DF	DRINKING FOUNTAIN	1/2"	-	2"	2"
SH	SHOWER	1/2"	1/2"	2"	2"



A RESTROOM BUILDING – SANITARY DIAGRAM
SCALE: NOT TO SCALE



B RESTROOM BUILDING – WATER DIAGRAM
SCALE: NOT TO SCALE

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

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SCOTT H. INATSUKA LICENSED PROFESSIONAL ENGINEER No. 9384-M HAWAII, U.S.A.

APRIL 30, 2026
License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL

PHASE 1

PERMIT SET

SHEET NAME
RESTROOM BUILDING - PLUMBING DIAGRAMS

SCALE:

DRAWN BY	CHECKED BY
IE LLC	SI
PROJECT NO. 223008-01	SHEET NO. P10
SHEET ISSUE DATE 01/28/25	

Autodesk Docs://223008-01 Namahana School/namahana_A22-central.rvt
12/6/2024 11:26:27 AM

DEPARTMENT OF WATER

County of Kaua'i

"Water has no Substitute – Conserve It!"

MANAGER'S REPORT No. 26-17

December 18, 2025

Re: Discussion and Possible Action on Namahana Education Foundation's Water Service Agreement

RECOMMENDATION:

It is recommended that the Board approve Namahana Education Foundation's Water Service Agreement.

FUNDING: N/A

BACKGROUND:

At the August 21, 2025 Board Meeting, the Board made the following motions:

Motion 1: The Board finds that there is legitimate public interest in granting water service to Namahana Charter School.

Motion 2: The Board hereby directs the Water Department to address the deed restriction, the waiver and release form, and any other documents preventing the site from obtaining water service.

Motion 3: The Board also requires that prior to building permit approval, the applicant provide the Board of Water with a water minimization plan that will be subject to Board review, amendment, and approval.

The Department has coordinated with Namahana Education Foundation on the Water Service Agreement and is ready to present it for Board action.

OPTIONS:

Option 1: **Approve Manager's Report as recommended.**

Pro: DOW will move forward with the additional steps for Namahana Education Foundation to obtain water service.

Con: DOW will retain the added obligation of monitoring and enforcing the permitted domestic water flow at the Property, as outlined in the Water Service Agreement.

Option 2: **Do Not Approve Manager's Report as recommended.**

Pro: DOW will not retain the added obligation of monitoring and enforcing the permitted domestic water flow at the Property, as outlined in the Water Service Agreement.

Con: DOW will not move forward with the additional steps for Namahana Education Foundation to obtain water service.

JK/crz

Attachment(s): Namahana Education Foundation's Water Service Agreement with Exhibits

WATER SERVICE AGREEMENT

This Water Service Agreement ("Agreement") is made by and among NAMAHANA EDUCATION FOUNDATION, a Hawaii nonprofit corporation, whose mailing address is P.O. Box 1353, Kilauea, HI 96754 (hereinafter called "NEF"), and the BOARD OF WATER SUPPLY, COUNTY OF KAUAI, whose mailing address is 4398 Pua Loke St, Lihue, HI 96766 (hereafter called "Board").

WITNESSETH:

WHEREAS, the Board approved of the Water Minimization Plan, dated November 7, 2025, for NEF at the _____, 20__ Board Meeting; and

WHEREAS, the Water Minimization Plan included the implementation of a one and a half-inch (1.5") water meter based on itemized fixture types and quantities; and

WHEREAS, the Water Minimization Plan requested an average daily water demand of 600 gallons per day (gpd) for Phase 1A from August 2026 through July 2027, and 1,100 gpd for Phase 1B from August 2027 and thereafter; and

WHEREAS, NEF, with the concurrence of the Department of Water, County of Kauai ("DOW"), has designed and constructed a new two-inch (2") potable water lateral beginning at STA. 4+56 NAMAHANA PLACE and running west-northwest of real property identified as Lot 11-A-2-B-3 of the Kilauea Plateau Subdivision, further described at Tax Map Key No. (4) 5-2-005:053 ("Property"); and

WHEREAS, NEF, whose State of Hawaii public-charter school operations, are located on the Property, requests permission to connect to the water meter on the new two-inch (2") potable water lateral; and

WHEREAS, as a condition of the Property being serviced by DOW in a limited capacity, as described herein, for potable water via the new two-inch (2") potable water lateral, the Board is requiring NEF to complete and execute this Agreement stating, among other matters, the maximum amount of water to which the Property is entitled, subject to the terms provided herein; and

WHEREAS, no changes to the Water Minimization Plan or this Water Service Agreement are permitted without prior Board approval; and

WHEREAS, this Agreement is intended to satisfy the foregoing condition imposed by the Board.

NOW, THEREFORE, in consideration of the mutual terms and conditions set forth herein, the parties hereto agree as follows:

A. No Guarantee of Increased Water Service in the Future.

1. NEF desires to commence water service to the Property with the knowledge that no water service of any kind has previously existed at the Property. In consideration for water service being provided to the Property by DOW, NEF acknowledges and accepts the fact that DOW is unable to provide greater water service other than as described herein, and there is no guarantee of DOW improvements or infrastructure to service the Property at a capacity greater than as described within this Agreement. The issuance of water to the Property shall not infer, warrant, or guarantee that water service, other than as described within this Agreement, will be provided to the Property by DOW at any time in the future.

B. NEF Obligations: NEF agrees to the following:

1. The following requirements are based on the Board-approved Water Minimization Plan, dated November 7, 2025, attached and incorporated herein as Exhibit "A".
2. NEF requests that the DOW install a one and a half-inch (1.5") water meter on the new two-inch (2") potable water lateral and agrees to pay for the necessary fees, including the Facilities Reserve Charge, as specified in the DOW Rules and Regulations.
3. Prior to NEF being allowed to connect to the one and a half-inch (1.5") water meter, NEF shall design and construct the necessary appurtenances for DOW to install the water meter, including the water meter box. NEF shall also design, construct and test the backflow preventer for the one and a half-inch (1.5") water meter. NEF shall also complete annual tests of the backflow preventer. Additionally, NEF shall design, construct and test a reduced pressure detector assembly (RPDA) on the fire line for the Property. The installation of the backflow preventer immediately downstream of the water meter and the RPDA shall conform to the requirements set forth in the DOW Rules and Regulations.
4. NEF shall be limited to a one and a half-inch (1.5") water meter and shall not exceed the average daily maximum water allocation of six hundred (600) gallons per day for any two (2) consecutive months during Phase IA from August 2026 through July 2027, and no more than one thousand and one hundred (1,100) gallons per day in Phase IB from August 2027 and thereafter, as shown in the conclusion of Exhibit A, the Water Minimization Plan .

5. NEF shall email a written report to DOW no later than the end of each calendar month stating the average daily water used during the immediate prior month and certifying that the water use has not exceeded the average daily maximum water allocation identified in this Agreement. The report shall be in the form attached and incorporated herein as Exhibit "B", and sent via email to engineering@kauaiwater.org.
6. Should NEF exceed its average daily maximum water allocation for any two (2) consecutive months, DOW shall provide written notice to NEF that it has exceeded its average daily maximum water allocation and NEF shall immediately reduce its water use to no more than the average daily maximum water allocation within thirty (30) calendar days of the date of the written notice and identify and explain why the average daily maximum water allocation was exceeded. DOW's written notice shall be sent via U.S. mail, postage, prepaid or email in accordance with the Notices provision in Section D(3) of this Agreement below. If NEF continues to exceed its average daily maximum water allocation after the thirty (30) calendar day notice period, NEF shall immediately develop a written corrective water management consumption plan to be submitted to DOW. The plan shall describe, in detail, measures NEF will take to immediately reduce water consumption to no more than its average daily maximum water allocation. The plan shall be prepared and signed by a licensed engineer in the State of Hawaii and submitted to DOW no later than thirty (30) calendar days after the end of the thirty (30) calendar day notice period. If a written water management consumption plan is not submitted within the required time period (or any extended period approved by DOW), or DOW in its reasonable engineering judgment determines the plan to be deficient or insufficient, or NEF continues to exceed its average daily maximum water allocation, DOW may terminate the domestic water service. DOW shall resume NEF's water service only after NEF has submitted such evidence and taken satisfactory actions to DOW that provide NEF has taken adequate measures to ensure the water consumption shall not exceed the average daily maximum water allocation. Failing the submission of such evidence or taking such actions, DOW need not resume water service to NEF, provided NEF retains the right to appeal the rejection of any timely-submitted corrective water management consumption plan or termination of domestic water service to the Board.
7. NEF shall conform to all DOW Policies and/or Rules and Regulations.

8. NEF shall promptly pay all water meter charges and fees when billed by DOW.
9. NEF shall be responsible for the maintenance and repair of the water line beginning immediately after the one and a half-inch (1.5") water meter serving NEF, including the backflow preventer.
10. NEF shall be responsible for the maintenance and repair of the fire line, including the RPDA.

C. DOW Obligations: The DOW agrees to the following:

1. The DOW will install the one and a half-inch (1.5") water meter for NEF at NEF's expense, upon request by NEF to DOW.
2. The DOW will maintain and repair the new two-inch (2") potable water lateral upstream of the one and half-inch (1.5") water meter.
3. The DOW will bill NEF based on water usage for NEF's one and a half-inch (1.5") water meter readings and any other applicable fees and charges in accordance with the DOW Rules and Regulations.

D. GENERAL PROVISIONS.

1. Counterpart. This Agreement may be executed in more than one counterpart, each of which shall be considered an original, but all of which shall constitute a single document.
2. Modification; No Assignment. This Agreement may not be modified or cancelled, in whole or in part, except by another agreement in writing, duly executed by all of the parties. This Agreement cannot be assigned and any purported assignment in violation of this section shall be null and void.
3. Notices. All notices will be in writing and will be duly given to NEF when sent to:

   Namahana Education Foundation
   P.O. Box 1353
   Kilauea, HI 96754
   Attention: Sarah Wright
   Email: accounts@namahanafoundation.org

   and to DOW when sent to :

   Engineering Division
   Department of Water, County of Kauai
   4398 Pua Loke Street

Lihue, Hawaii 96766
Email: engineering@kauaiwater.org

4. Controlling Law. The performance and interpretation of this Agreement shall be controlled by the laws of the State of Hawaii.
5. Rights and Obligations. The rights and obligations set forth herein shall be binding upon, and shall inure to the benefit of, the parties and their respective heirs, estates, personal representatives, successors, successors in trust and assigns.
6. Effective Date. This Agreement shall not become effective and binding unless and until signed by all of the parties hereto. The effective date of this Agreement shall be the date of the last signatory.

[Remainder of this page intentionally left blank]

IN WITNESS WHEREOF, the parties have signed this Agreement effective on the date signed by the Chairperson of the Board below.

NAMAHANA EDUCATION FOUNDATION, a Hawaii nonprofit corporation

_____

JESSICA FU, Its Board Chair

RECOMMEND APPROVAL:

BOARD OF WATER SUPPLY
COUNTY OF KAUA`I

_____

JOSEPH E. TAIT
Manager and Chief Engineer

_____

JULIE SIMONTON
Chairperson

APPROVED AS TO FORM
AND LEGALITY:

_____

LAURA M. ESSENBERG
Deputy County Attorney

Exhibit A

MEMORANDUM

111 S. King Street
Suite 170
Honolulu, HI 96813
808.523.5866
www.g70.design

TO:	County of Kauai Department of Water Water Resources and Planning Division 4398 Pua Loke Street Lihue, HI 96766		
ATTENTION:	Regina Reyes-Flores		
DATE:	11/7/2025	**EMAIL/FAX:**	
PROJECT:	Namahana Public Charter School – Phase 1	**PROJECT NO:**	223008-01
SUBJECT:	Proposed Water Use Minimization Plan (R9)	**NO. OF PAGES:**	16

On behalf of Namahana Education Foundation (the "Foundation"), and in response to directives issued during the Department of Water Board meeting, held on August 21, 2025, the Foundation hereby submits for consideration the following proposed Water Use Minimization Plan related to the anticipated future development at Namahana Public Charter (the "School").

Project Overview

The future development is structured in multiple phases. The initial scope, encompassing Phases 1A (August 2026-June 2027) and 1B (August 2027-June 2028), is projected to accommodate up to 120 students upon completion. Phases 1A and 1B are anticipated to include the construction of facilities with dedicated plumbing fixtures as detailed herein. Specifically, each phase will include the addition of 2 Advisory Buildings (providing 4 classrooms) and 1 bathroom structure. Modifications between phases are expected to reflect adjustments in student enrollment and faculty numbers, in alignment with the phased facility buildout.

Buildings	Fixtures (per building)	Notes
(4) classrooms	0	Removed sink, water bottle filler, (2) hose bibs from each
(2) bathrooms	5 – water closets 5 – lavatories 2 – drinking fountains 2 – hose bibs 1 – mop sink	See page 2 for detailed fixture unit breakdown for informing size of meter
(0) maker space	0	Removed (2) sinks
(0) cafeteria	0	No food prep or service space to be included in this phase of work
(0) faculty break room	0	No faculty breakroom with plumbing fixtures to be included in this phase of work

Enrollment	Phase 1A (Year 1)	Phase 1B (Year 2)
	60 students	120 students
	7 teachers (full-time) 3 admin (full-time) 4 elective staff (part-time, 2 days/wk)	13 teachers (full-time) 3 admin (full-time) 4 elective staff (part-time, 2 days/wk)

Design and Operational Considerations

Certain design and operational considerations were presented to the Board during the August 21, 2025 meeting. Subsequent to that meeting, the Foundation engaged in coordination meetings with County representatives to refine the project scope. Through this process, initial planning documents reflecting approximately 134 fixture units were reduced to approximately 109 fixture units through revised design parameters and operational modifications.

Through these discussions, it was mutually recognized that meter sizing is determined by fixture unit calculations under applicable plumbing codes, whereas actual water consumption reflects operational usage patterns. It was further acknowledged that reducing fixture count does not necessarily correlate to proportional reductions in actual water usage. The Foundation has addressed both aspects through design modifications and operational considerations that account for realistic usage patterns.

Design considerations:

- Use of metering faucets – adjustable run-time for water savings and user convenience
- Consider removal of facility shower fixtures
- Use of low-flow toilet fixtures
- Use of flush valves, due to durability for high-traffic school use
- Automated flow monitoring plan with submetering of different uses or buildings
- Install water flow and pressure reducers
- Water catchment approach could be used to supplement irrigation of landscape/gardens for curriculum needs (note below, use of drought-tolerant landscaping)

Operational considerations:

- Limit fixture usage to school operation hours of approximately 7am to 5pm, Monday through Friday. Of note, for off-peak summer months of June and July, class will not be in session and water usage will further be reduced.
- Provide drought-tolerant landscaping, which does not require additional irrigation
- Reduce the quantity and use of exterior hose bibs, with keyed valves to limit use for school maintenance needs
- To regulate use of exterior fixtures beyond typical school hours, the owner retains the ability to implement mitigation measures, including isolating exterior fixtures via valve shutoffs, as conditions warrant.

Planning Projections

The Foundation has also prepared preliminary planning projections, as follows:

- Phase 1A projected usage: 478 gallons per day
- Phase 1B projected usage: 918 gallons per day

These projections are provided for informational and transparency purposes to illustrate the planned distribution and types of plumbing fixtures per user and are calculated in accordance with Table 2 of the LEED (Leadership in Energy and Environmental Design) baseline indoor water use methodology and best practice assumptions.

Actual Use Data

In further support of the proposed plan, the Foundation has obtained actual water consumption data from its current temporary school facility at Kula School. Water usage data was collected over a representative 30-day period, specifically from August 12, 2025 through September 11, 2025, reflecting typical operational conditions:

- Total consumption: 37 kilogallons (kgal)
- Daily average: 1,233 gallons per day serving approximately 120 students and staff

This empirical data is provided to demonstrate the School's real-world operational water demand and to provide context for the Board's consideration of the proposed infrastructure.

Comparison to County Planning Standards

Notably, the County's planning standards as outlined in Table 100-18 (Domestic Consumption Guidelines) project an average daily demand of 60 gallons per student for schools. Applied to the School's student population of 120, this County standard would anticipate water consumption of approximately 7,200 gallons per day. The School's documented actual usage of 1,233 gallons per day represents approximately 17% of the County's planning benchmark.

This substantial variance between the County's planning guidelines and the School's demonstrated operational efficiency underscores the School's commitment to water conservation and supports the adequacy of the proposed infrastructure.

Conclusion and Request

Based on the reduced fixture count of 108.5 units, applicable plumbing codes, the operational requirements necessary to serve the student population in Phases 1A and 1B, and the documented actual consumption patterns, the Foundation respectfully submits that a 1.5-inch meter connection represents the minimum adequate infrastructure to support the School's anticipated water demand, reflecting the use of flush valve toilets, chosen in consideration of maintenance needs.

The Foundation will enter into a separate Water Service Agreement with the County, which will reference this Water Use Minimization Plan to establish water consumption parameters for the phased development. The Water Service Agreement is expected to reference water consumption of 600 gallons per day (GPD) for Phase 1A and 1,100 gallons per day (GPD) for Phase 1B, with such parameters supported by the design considerations, empirical data, and planning projections outlined herein.

The Foundation respectfully requests the Board's approval of this Water Use Minimization Plan and authorization for a 1.5-inch meter connection.

Attachments:

- Itemized fixture unit count calculations
- Water usage calculations for Phase 1A and 1B
- Table 100-18 (Domestic Consumption Guidelines)
- Drawings:
    - C07 – Utility Plan 1 – see color-coded mark-up
    - C08 – Utility Plan 2 – see color-coded mark-up
    - A02 – Site Plan – Phase 1
    - A20 – Advisory Building Plan – with Delta D revisions
    - A50 – Restroom Building Plan – with Delta D revisions
    - P05 – Advisory Plumbing Plan – with Delta D revisions
    - P07 – Restroom Building Plumbing Plan – with Delta D revisions
    - P09 – Advisory Building Plumbing Diagrams – with Delta D revisions
    - P10 – Restroom Building Plumbing Diagrams – with Delta D revisions

NAMAHANA SCHOOL - PHASE 1

as of 2025.10.13

references 2018 UPC, tables 610.3, 610.10

FIXTURE UNIT ITEMIZATION – Phase IA: Restroom 1			
	NEW WORK		
FIXTURE TYPE	**QTY**	**FU EA**	**FU TOTAL**
LAV	5	1.0	5.0
WC (flush valve)	4	10.0	40.0
WC (flush tank)	1	2.5	2.5
MOP SINK	1	3.0	3.0
SHOWER	0	1.6	0.0
DRINKING FOUNTAIN	2	0.5	1.0
HB (1st)	1	2.5	2.5
HB (ADD'L)	1	1.0	1.0
SUBTOTAL	-	-	**55.0**

FIXTURE UNIT ITEMIZATION – Phase IB: Restroom 2			
	NEW WORK		
FIXTURE TYPE	**QTY**	**FU EA**	**FU TOTAL**
LAV	5	1.0	5.0
WC (flush valve)	4	10.0	40.0
WC (flush tank)	1	2.5	2.5
MOP SINK	1	3.0	3.0
SHOWER	0	1.6	0.0
DRINKING FOUNTAIN	2	0.5	1.0
HB (ADD'L)	2	1.0	2.0
SUBTOTAL	-	-	**53.5**

				AWWA (GPM)
TOTAL			**108.5**	**70.0**
Previous total			***134.2***	***76.0***

Meter Size	AWWA (capacity/ gpm)	Factor based on 5/8
5/8 inch	20	1
3/4 inch	30	1.5
1 inch	50	2.5
1-1/2 inch	**100**	**5**
2 inch	160	8

NAMAHANA SCHOOL - BATHROOM 1 & 2
Wastewater Flow Calculations
10/13/2025

August 2026-June 2027 — PHASE 1A (Year 1)

60 students
7 teachers (full-time)
3 admin (full-time)
1.6 elective (part-time, 4 teachers at 2 days/wk)

FIXTURE TYPE PER USER (NOTE 6)	FLOW RATE	USES PER DAY	DURATION (MIN)	QTY (USER)	GAL/DAY	NOTE
WATER CLOSET (MALE STUDENT)	1.6 GPF	3	N/A	30	144	**1**
WATER CLOSET (FEMALE STUDENT)	1.6 GPF	3	N/A	30	144	**1**
WATER CLOSET (MALE EMPLOYEE)	1.6 GPF	3	N/A	5	24	**1**
WATER CLOSET (FEMALE EMPLOYEE)	1.6 GPF	3	N/A	6.6	31.68	**1**
LAVATORY (STUDENTS)	0.5 GPM	3	0.5	60	45	**1**
LAVATORY (EMPLOYEES)	0.5 GPM	3	0.5	11.6	8.7	**1**
MOP SINK (FIXTURES)	4 GPM	1	15	1	60	**3**
DRINKING FOUNTAIN	0.25 GAL/USE	1	N/A	72	18	**4**
HOSE BIBB	8 GPM	-	-	-	2.63	**5**
			TOTAL	**478.01**	**GPD**	

August 2027-June 2028 — PHASE 1B (Year 2)

120 students
13 teachers (full-time)
3 admin (full-time)
1.6 elective (part-time, 4 teachers at 2 days/wk)

FIXTURE TYPE PER USER (NOTE 6)	FLOW RATE	USES PER DAY	DURATION (MIN)	QTY (USER)	GAL/DAY	NOTE
WATER CLOSET (MALE STUDENT)	1.6 GPF	3	N/A	60	288	**1**
WATER CLOSET (FEMALE STUDENT)	1.6 GPF	3	N/A	60	288	**1**
WATER CLOSET (MALE EMPLOYEE)	1.6 GPF	3	N/A	8	38.4	**1**
WATER CLOSET (FEMALE EMPLOYEE)	1.6 GPF	3	N/A	9.6	46.08	**1**
LAVATORY (STUDENTS)	0.5 GPM	3	0.5	120	90	**1**
LAVATORY (EMPLOYEES)	0.5 GPM	3	0.5	17.6	13.2	**1**
MOP SINK (FIXTURES)	4 GPM	2	15	1	120	**3**
DRINKING FOUNTAIN	0.25 GAL/USE	1	N/A	138	32.5	**4**
HOSE BIBB	8 GPM	-	-	-	2.63	**5**
			TOTAL	**918.81**	**GPD**	

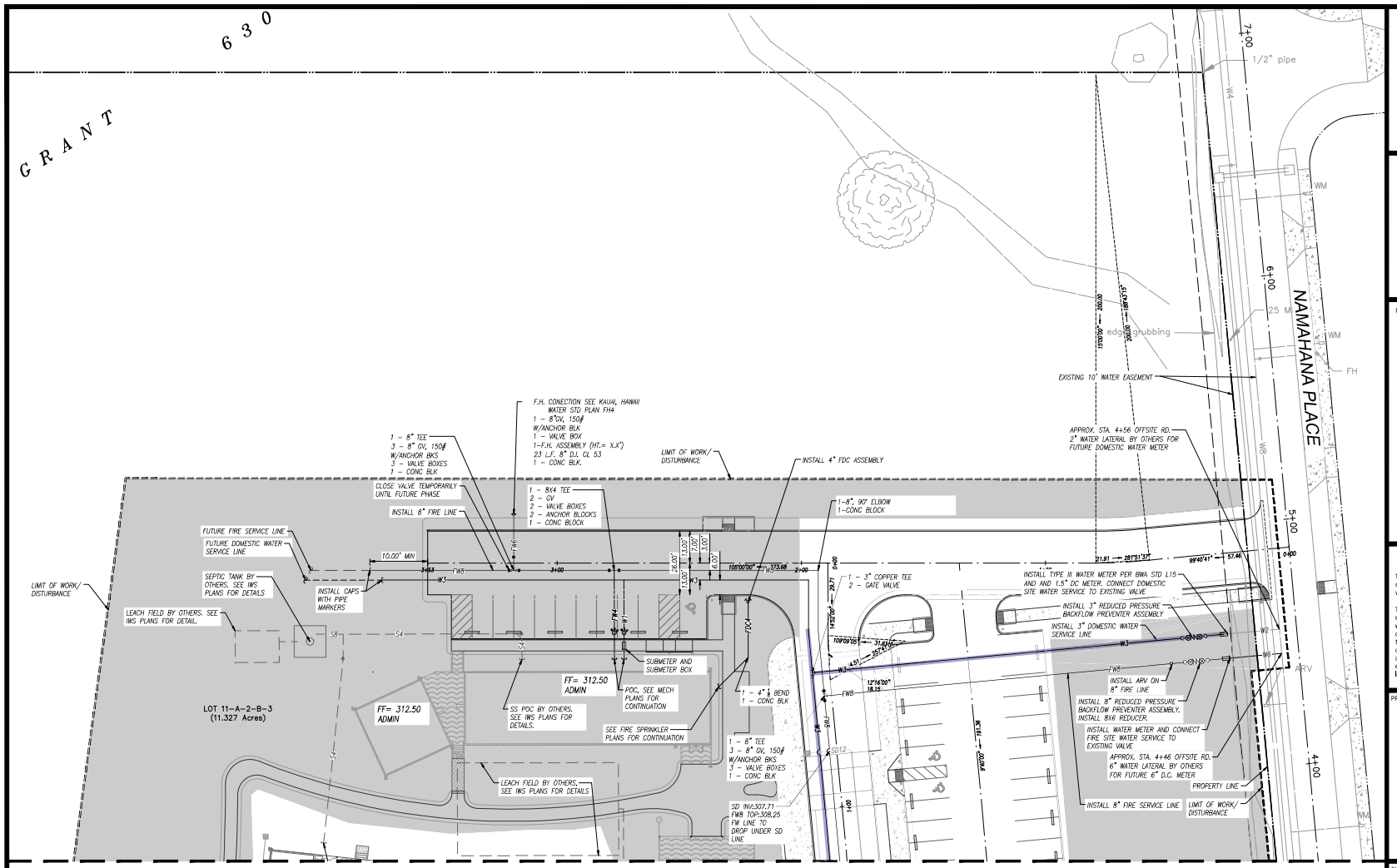
ASSUMPTIONS:

1. FLUSH RATES/FLOW RATES, USES PER DAY, AND DURATION VALUES ARE BASED ON TABLE 2: LEED BASELINE INDOOR WATER USAGE.
2. STUDENTS AND TEACHERS ARE SPLIT EVENLY BETWEEN MALE AND FEMALE. USAGE IS SPLIT EVENLY AMONG BATHROOM 1 AND BATHROOM 2 BUILDINGS.
3. IT IS ESTIMATED THAT THE MOP SINK WILL RUN FOR 15 MINUTES ON AVERAGE DAILY FOR EACH BATHROOM.
4. ASSUMING EACH STUDENT AND STAFF MEMBER FILLS THEIR WATER BOTTLE ONCE A DAY. ASSUMING A 1 LITER WATER BOTTLE EQUAL TO APPROXIMATELY 0.25 GALLONS.
5. IT IS ESTIMATED THAT HOSE BIBB WILL BE USED TWICE PER YEAR FOR 30 MIN DURATION EACH TIME FOR EACH BATHROOM. TOTAL USE FOR ALL BATHROOMS IS 960 GALLONS PER YEAR. AVERAGE DAILY USE IS 2.63 GPD. (8 GPM X 30 MIN X 2 (TWICE/PER) X 2 (BATHROOMS)/365 DAYS = 2.63 GPD)
6. THE CALCULATION IS FOCUSED ON THE USE OF THE FIXTURES BY OCCUPANTS. THE ACTUAL QUANTITY OF PLUMBING FIXTURES IS NOT PART OF THIS CALCULATION.

DIVISION 100 - PLANNING

Table 100-18 - DOMESTIC CONSUMPTION GUIDELINES				
AVERAGE DAILY DEMAND*				
ZONING DESIGNATION	HAWAII	KAUAI	MAUI	OAHU
RESIDENTIAL:				
Single Family or Duplex	400 gals/unit	500 gals/unit	600 gals/unit or 3000 gals/acre	500 gals/unit or 2500 gals/acre
Multi-Family Low Rise	400 gals/unit	350 gals/unit	560 gals/unit or 5000 gals/acre	400 gals/unit or 4000 gals/acre
Multi-Family High Rise	400 gals/unit	350 gals/unit	560 gals/unit	300 gals/unit
COMMERCIAL:				
Commercial Only	3000 gals/acre	3000 gals/acre	6000 gals/acre	3000 gals/acre
Commercial/Industrial Mix	--	5000 gals/acre	140 gals/1000 sq. ft.	100 gals/1000 sq. ft.
Commercial/Residential Mix	--	3000 gals/acre	140 gals/1000 sq. ft.	120 gals/1000 sq. ft.
RESORT (To include hotel for Maui only)	400 gals/unit (1)	350 gals/unit	350 gals/unit or 17000 gals/acre	350 gals/unit or 4000 gals/acre
LIGHT INDUSTRY:	4000 gals/acre	4000 gals/acre	6000 gals/acre	4000 gals/acre
SCHOOLS, PARKS:	4000 gals/acre or 60 gals/student	4000 gals/acre or 60 gals/student	1700 gals/acre or 60 gals/student	4000 gals/acre or 60 gals/student
AGRICULTURE:		2,500 gals/acre	5000 gals/acre	4000 gals/acre

* - Where two or more figures are listed for the same zoning, the daily demand resulting in higher consumption use shall govern the design unless specified otherwise.
(1) - Subject to special review and control by the Manager.



LEGEND

- LIMIT OF GRADING AND DISTURBANCE
- PROPERTY LINE
- LOT LINE
- EASEMENT
- D18 — EXISTING DRAINLINE AND SIZE
- SD12 — PROPOSED STORM DRAIN LINE AND INLET
- S4 — PROPOSED 4" SEWER LINE BY OTHERS
- FW6 — PROPOSED 6" FIRE SERVICE WATER LINE
- W1 — PROPOSED 1" DOMESTIC WATER LINE
- W4 — PROPOSED 4" FDC WATER LINE
- PROPOSED FDC ASSEMBLY
- PROPOSED 6" FIRE HYDRANT ASSEMBLY PER KAUAI, HI WATER STD F4
- PROPOSED BLOWOFF ASSEMBLY
- PROPOSED AIR PRESSURE RELEASE VALVE PER KAUAI, HI WATER STD V10
- PROPOSED BACKFLOW PREVENTER PER KAUAI, HI WATER STD V9
- PROPOSED SANITATION MANHOLE, BY OTHERS
- PROPOSED SANITATION CLEAN OUT, BY OTHERS
- CONCRETE SIDEWALK
- GRAVEL
- DECK - SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS
- NOT IN CONTRACT

KEY:

- PLANNED DOMESTIC WATER SCOPE
- DOMESTIC WATER SCOPE TO BE REMOVED

UTILITY PLAN 1

20 10 0 20 40

SCALE IN FEET

NOTE:

SEWER SHOWN FOR COORDINATION PURPOSES ONLY. SEE IWS AND PLUMBING PLANS

NOTE:

INSTALL THRUST BLOCKS PER COUNTY STANDARDS. IF THRUST BLOCK CANNOT BE INSTALLED USE RESTRAINED JOINT FITTINGS PER MANUFACTURER'S SPECIFICATIONS AND LENGTH REQUIREMENTS. SUBMIT PRODUCT SHEET TO ENGINEER FOR APPROVAL.

NOTE:

FUTURE PUBLIC STREET UNDER CONSTRUCTION ON NAMAHANA PLACE IS FROM RECORD AND DESIGN DRAWINGS ONLY. THE ROADWAY IS NOT YET CONSTRUCTED. ONCE CONSTRUCTED, THE DESIGN SHOULD BE VERIFIED AGAINST AS-BUILT INFORMATION PROVIDED BY THE COUNTY AND THE PRIVATE DEVELOPER BUILDING THE FUTURE PUBLIC STREET ON NAMAHANA PLACE

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

Date	Description

PERMIT SET
1/19/2024

04/30/2026

This work was prepared by me or under my supervision and construction of this project will be under my observation.

This work was prepared by me or under my supervision and construction of this project will be under my observation, (Observation of construction as defined in section 16-115-2 of the state of Hawai'i, department of commerce and consumer affairs,Hawaii administrative rules for professional engineers, architects, surveyors, and landscape architects 8/29/94).

PROJECT TITLE

NAMAHANA SCHOOL PHASE 1

LOT 11-A-2-B-3
ALA NAMAHANA PKWY
TMK (4) 5-2-005:023, :058

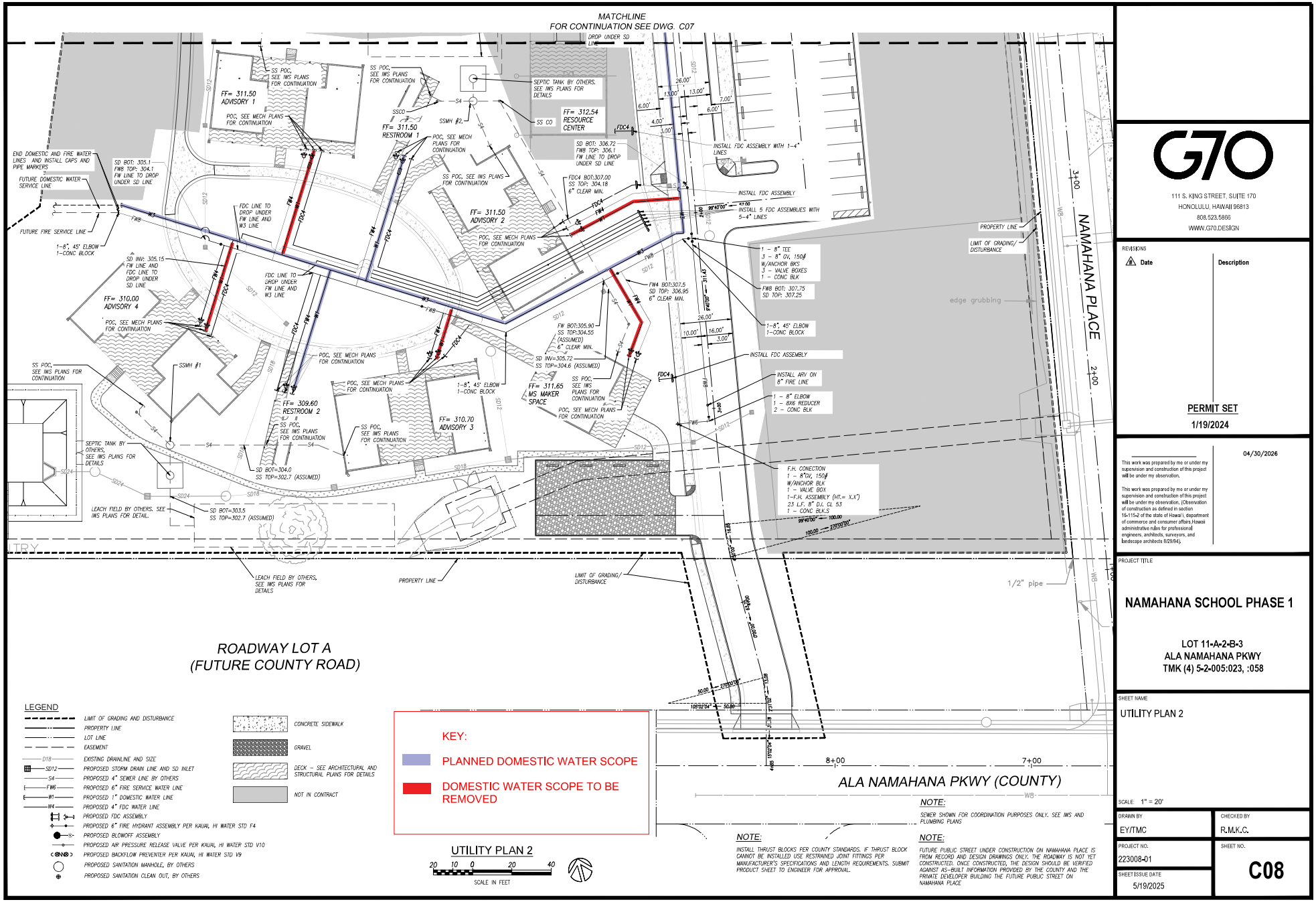
SHEET NAME

UTILITY PLAN 1

SCALE: 1" = 20'

DRAWN BY	CHECKED BY
EY/TMC	R.M.K.C.
PROJECT NO.	SHEET NO.
223008-01	C07
SHEET ISSUE DATE	
5/19/2025	

PLOTTED BY: Teresa Cohen DATE: May. 19, 2025 05:34:55 PM FILE: P:\2023\223008-01 Namahana School\Civil\DWG\223008-01 C07-C08 UTILITY PLAN.dwg



G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description
1		

PERMIT SET
1/19/2024

04/30/2026

This work was prepared by me or under my supervision and construction of this project will be under my observation.

This work was prepared by me or under my supervision and construction of this project will be under my observation, (Observation of construction as defined in section 16-115-2 of the state of Hawai'i, department of commerce and consumer affairs, Hawaii administrative rules for professional engineers, architects, surveyors, and landscape architects 8/29/94).

PROJECT TITLE
NAMAHANA SCHOOL PHASE 1

LOT 11-A-2-B-3
ALA NAMAHANA PKWY
TMK (4) 5-2-005:023, :058

SHEET NAME
UTILITY PLAN 2

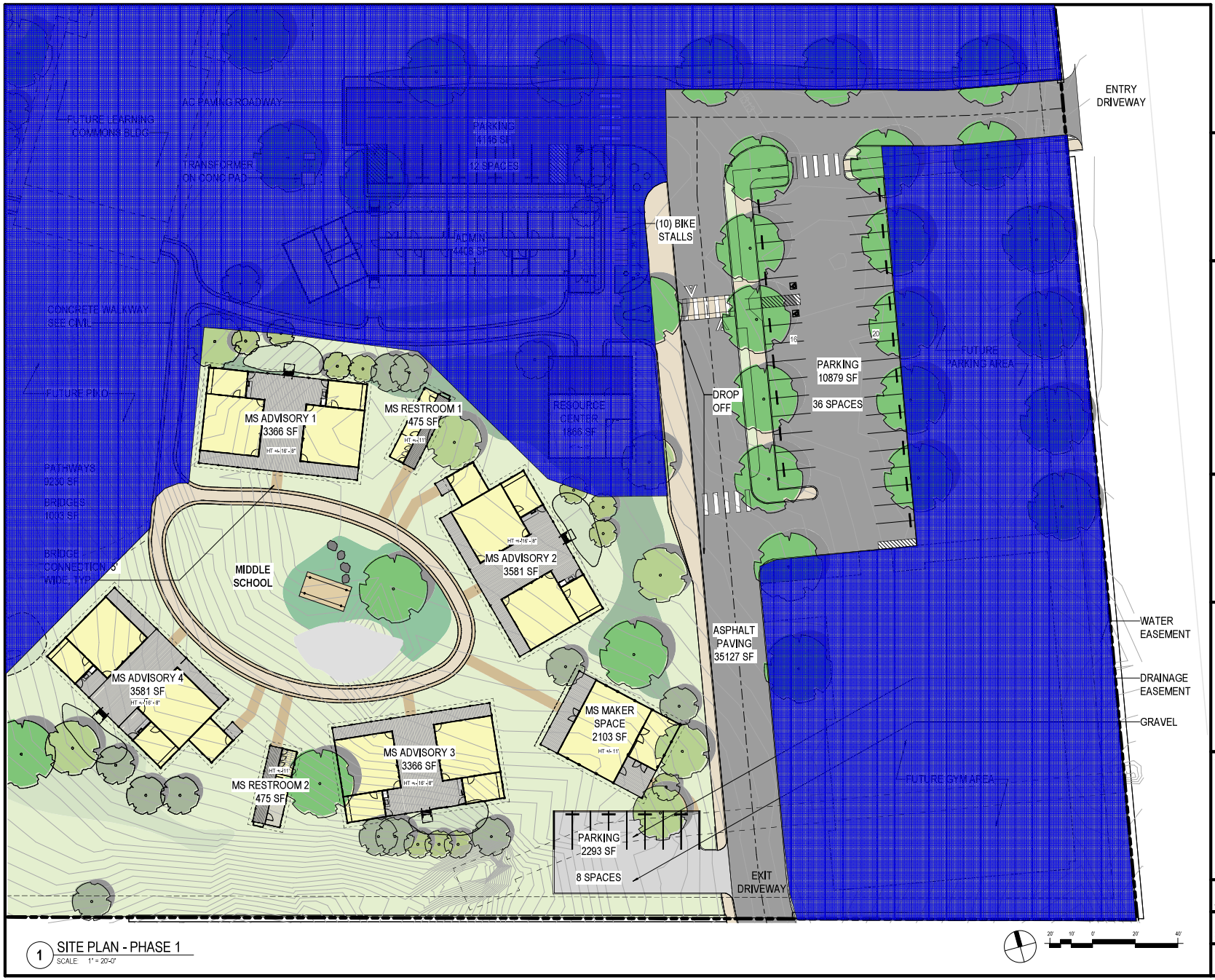
SCALE: 1" = 20'

DRAWN BY	CHECKED BY
EY/TMC	R.M.K.C.

PROJECT NO.	SHEET NO.
223008-01	C08

SHEET ISSUE DATE
5/19/2025

PLOTTED BY: Teresa Cohen DATE: May 19, 2025 05:34:57 PM FILE: P:\2023\223008-01 Namahana School\Civil\UWG\223008-01 C07-C08 UTILITY PLAN.dwg



1 SITE PLAN - PHASE 1
SCALE: 1" = 20'-0"

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

Date	Description

BID SET
05/20/2025

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL
PHASE 1
ALA NAMAHANA PKWY
KILAUEA, KAUAI, HAWAII 96754
TMK#: (4) 5-2-005:053

SHEET NAME
SITEPLAN - PHASE 1

SCALE: 1" = 20'-0"

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO. 223008-01	SHEET NO. A02
SHEET ISSUE DATE 05/02/24	

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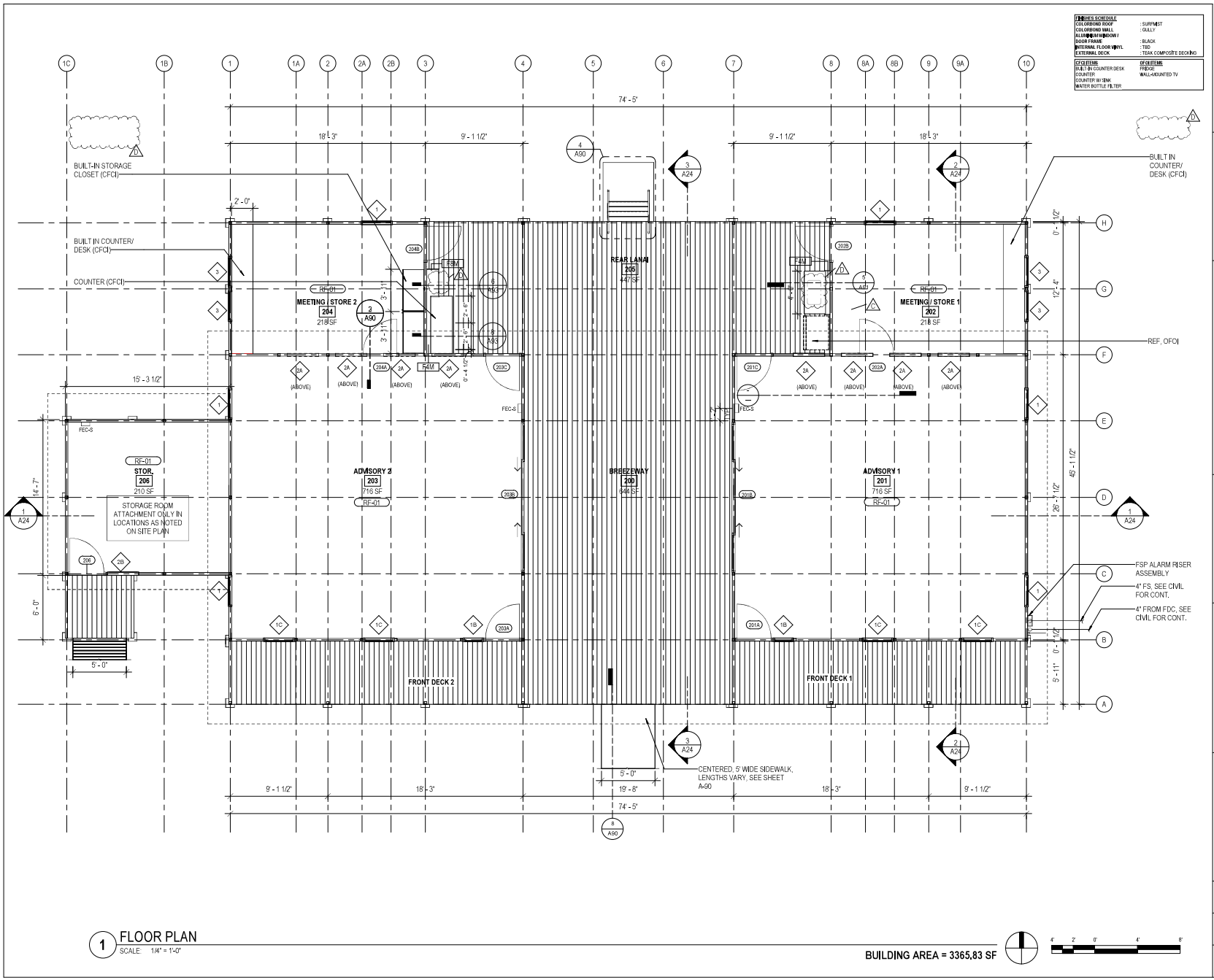

1 FLOOR PLAN
SCALE: 1/4" = 1'-0"

BUILDING AREA = 3365.83 SF

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description
C	07/24/2025	DCAB COMMENTS
D	10/06/2025	DOW COMMENTS

BID SET
05/20/2025

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL
PHASE 1
ALA NAMAHANA PKWY
KILAUEA, KAUAI, HAWAII
TMK#: (4) 5-2-005:053

SHEET NAME
ADVISORY BUILDING PLAN

SCALE: As indicated

DRAWN BY	CHECKED BY
CD	LH
PROJECT NO.	SHEET NO.
223008-01	A20
SHEET ISSUE DATE	
05/02/24	

Autodesk Docs://223008-01 Namahana School/801-1005 01 Advisory Building-revF.rvt
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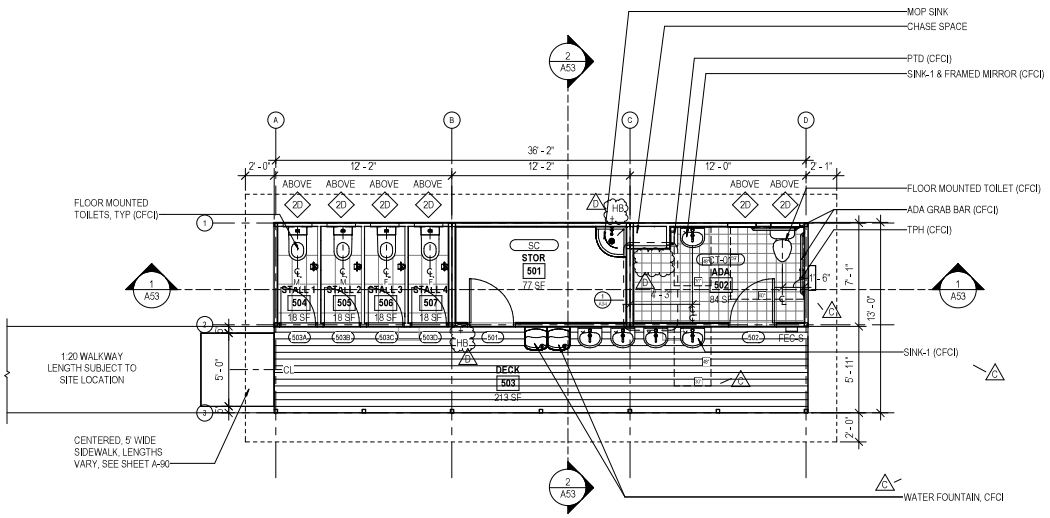
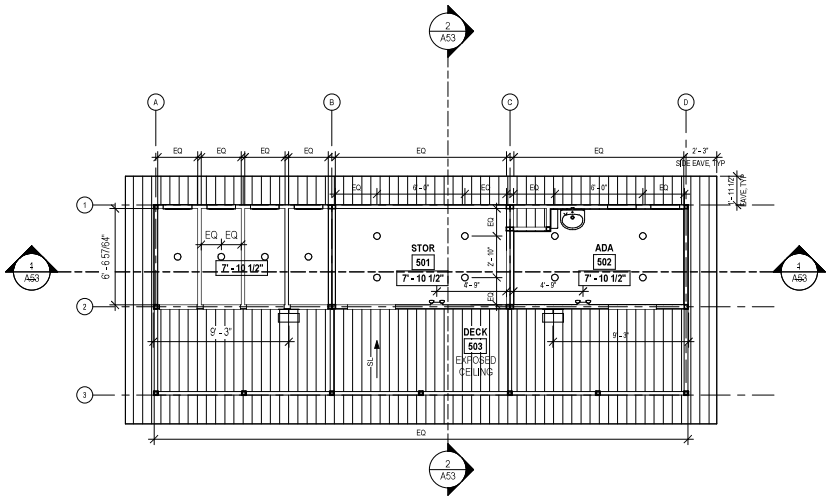


1 FLOOR PLAN
SCALE: 1/4" = 1'-0"

BUILDING AREA = 474.68 SF



2 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

FINISHES SCHEDULE

COLORBOND ROOF	: SURFMIST
COLORBOND WALL	: GULLY
ALUMINUM WINDOW / DOOR FRAME	: BLACK
INTERNAL FLOOR	: TBD
EXTERNAL DECK	: TEAK COMPOSITE DECKING

FIXTURES

PTD
WATER FOUNTAIN
FLOOR-MOUNTED TOILET
SINK-1 & FRAMED MIRROR
SINK-2
ADA GRAB BAR

LEGEND

- PT GYP BD 1 LAYER
- EXPOSED CEILING / UNDERSIDE OF ROOF
- SUSPENDED LUMINAIRE
- DOWNLIGHT
- CONCEALED PENDANT FS HEAD
- UPRIGHT FIRE SPRINKLER HEAD WITH CORROSION RESISTANT FINISH
- WALL LIGHT

4' 2' 0' 4' 8'

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description
1	06/18/2025	Addendum 01
C	07/24/2025	DCAB COMMENTS
D	10/06/2025	DOW COMMENT

BID SET
05/20/2025

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Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL
PHASE 2
ALA NAMAHANA PKWY
KILAUEA, KAUAI, HAWAII
TMK#: (4) 5-2-005:053

SHEET NAME
RESTROOM BUILDING PLAN & REFLECTED CEILING PLAN

SCALE: As indicated

DRAWN BY	CHECKED BY
CD	LH
PROJECT NO.	SHEET NO.
223008-01	A50
SHEET ISSUE DATE	
05/02/24	

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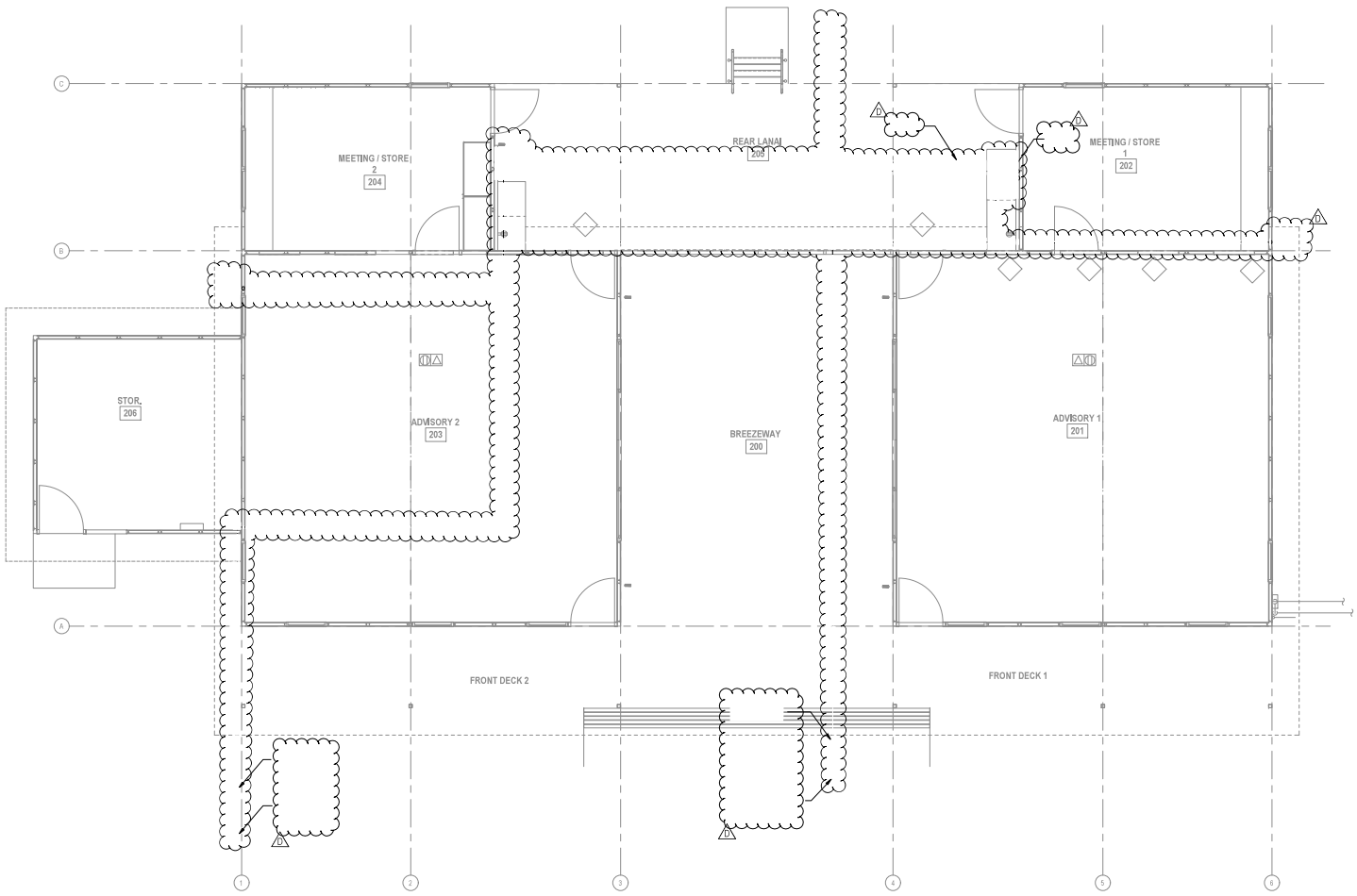

A ADVISORY BUILDING – PLUMBING PLAN
SCALE: 1/4"=1'-0"

0' 2' 4' 8'
1/4"=1'-0"

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

SCOTT H. INATSUKA
LICENSED PROFESSIONAL ENGINEER
No. 9384-M
HAWAII, U.S.A.

APRIL 30, 2026
License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL

PHASE 1

PERMIT SET

SHEET NAME
ADVISORY BUILDING - PLUMBING PLAN

SCALE:

DRAWN BY	CHECKED BY
IE LLC	SI
PROJECT NO.	SHEET NO.
223008-01	P05
SHEET ISSUE DATE	
01/28/25	

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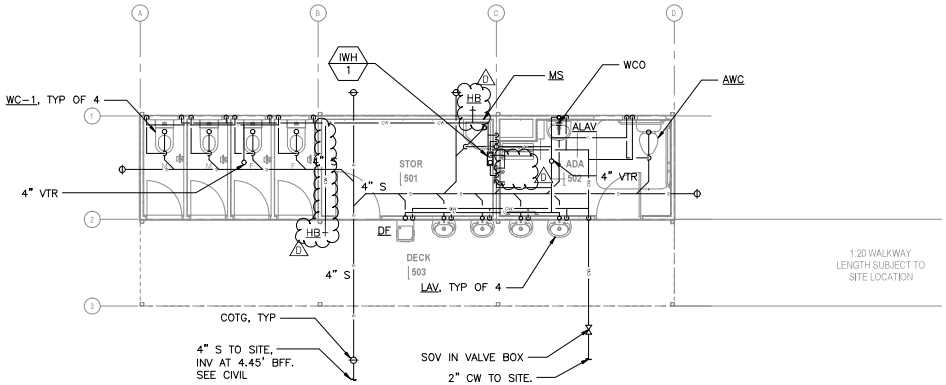

A RESTROOM BUILDING – PLUMBING PLAN
SCALE: 1/4"=1'-0"

0' 2' 4' 8'
1/4"=1'-0"

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

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SCOTT H. INATSUKA
LICENSED PROFESSIONAL ENGINEER
No. 9384-M
HAWAII, U.S.A.

APRIL 30, 2026
License Expiration Date

PROJECT TITLE

NAMAHANA PUBLIC CHARTER SCHOOL

PHASE 1

PERMIT SET

SHEET NAME

RESTROOM BUILDING - PLUMBING PLAN

SCALE:

DRAWN BY	CHECKED BY
IE LLC	SI
PROJECT NO.	SHEET NO.
223008-01	P07
SHEET ISSUE DATE	
01/28/25	

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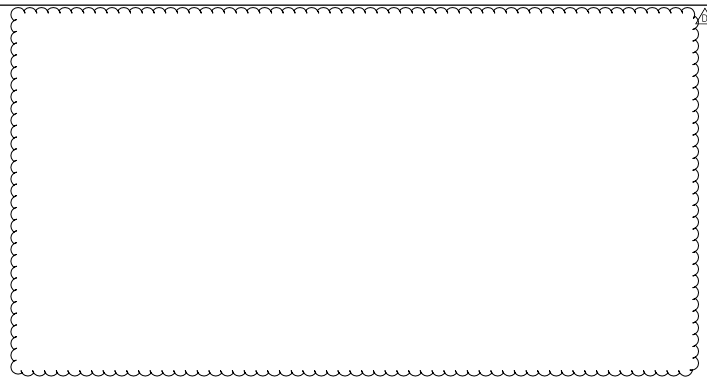

Ⓐ ADVISORY BUILDING – SANITARY DIAGRAM
SCALE: NOT TO SCALE

Ⓑ ADVISORY BUILDING – WATER DIAGRAM
SCALE: NOT TO SCALE

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

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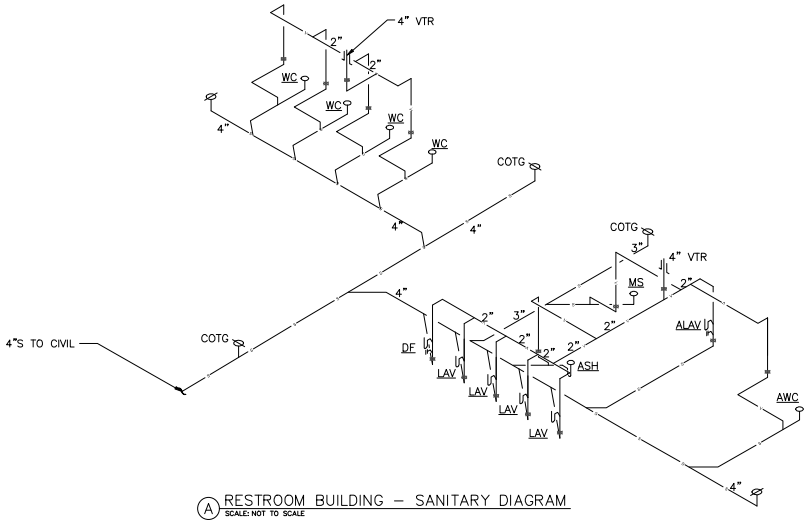
Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

SCOTT H. INATSUKA
LICENSED PROFESSIONAL ENGINEER
No. 9384-M
HAWAII, U.S.A.

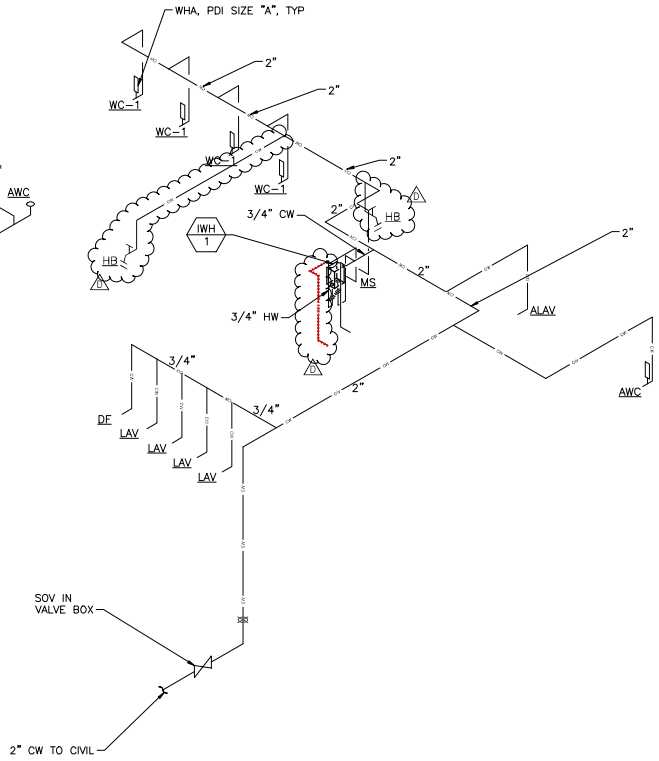
APRIL 30, 2026
License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL

FIXTURE CONNECTION SCHEDULE					
MARK	DESCRIPTION	CW	HW	S OR W	V
WC (FLUSH VALVE)	WATER CLOSET	1"	-	4"	2"
WC (FLUSH TANK)	WATER CLOSET	1/2"	-	4"	2"
LAV	LAVATORY	1/2"	1/2"	2"	2"
SK	SINK	1/2"	1/2"	2"	2"
MS	MOP SINK	3/4"	3/4"	3"	2"
HB	HOSE BIBB	3/4"	-	-	-
DF	DRINKING FOUNTAIN	1/2"	-	2"	2"
SH	SHOWER	1/2"	1/2"	2"	2"



A RESTROOM BUILDING – SANITARY DIAGRAM
SCALE: NOT TO SCALE



B RESTROOM BUILDING – WATER DIAGRAM
SCALE: NOT TO SCALE

INATSUKA ENGINEERING LLC
1003 Bishop Street, Suite 1960
Honolulu, HI 96813
Ph. 808.469.3200

REVISIONS

	Date	Description
D	10/06/2025	DOW COMMENT

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

SCOTT H. INATSUKA LICENSED PROFESSIONAL ENGINEER No. 9384-M HAWAII, U.S.A.

APRIL 30, 2026
License Expiration Date

PROJECT TITLE
NAMAHANA PUBLIC CHARTER SCHOOL

PHASE 1

PERMIT SET

SHEET NAME
RESTROOM BUILDING - PLUMBING DIAGRAMS

SCALE:

DRAWN BY	CHECKED BY
IE LLC	SI
PROJECT NO. 223008-01	SHEET NO. P10
SHEET ISSUE DATE 01/28/25	

Autodesk Docs://223008-01 Namahana School/namahana_A22-central.rvt
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Exhibit "B"

Certification of Water Usage

PURSUANT TO WATER SERVICE AGREEMENT
NAMAHANA EDUCATION FOUNDATION

Engineering Division
Department of Water, County of Kauai
4398 Pua Loke Street
Lihue, Hawaii 96766
engineering@kauaiwater.org

Re: Tax Map Key no. (4) 5-2-005:053

The average daily amount of water used by this subdivided parcel during the immediate prior calendar month of __, 20____ was _____ gallons per day (gpd) based on the previous month's water bill.

I hereby certify that the average daily amount of water used by the above parcel during the immediate prior calendar month does not exceed the above parcel's maximum water allocation (on a per month basis) established by the Water Service Agreement between the Board of Water Supply, County of Kauai, and Namahana Education Foundation, dated _____, 20_____.

Signature of Certifying Individual: _____

Print Signatory's Name:_____

Title: _____

Date of Certification: _____

DEPARTMENT OF WATER

County of Kaua‘i

“Water has no Substitute – Conserve It!”

MANAGER’S REPORT No. 26-18

December 18, 2025

Re: Discussion and Possible Action for Adoption of Budget Resolution No. 26-02 for the acceptance and expenditure of grant monies from the State of Hawai'i under Act 230, SLH 2024 for the Kapa‘a Homesteads Well No. 4

RECOMMENDATION:

It is recommended that the Board approve the request to accept and expend the total sum of $2,400,000.00 as authorized by Act 230, SLH 2024.

FUNDING:

The grant monies required a 100% match. The Department of Water has budgeted for the match as follows:

Account No.: 10-20-00-605-118
Account Description: WU/Eng/Admin/Capital Outlay – Expansion
Project Name: WK-39 Kapa‘a Homesteads Well No. 4 Pump and Controls
Budget: $2,400,000.00

BACKGROUND:

The Department of Water has requested Capital Improvement State-Aid funds for the subject project. The State legislature approved the appropriation for the project under Act 230, SLH 2024 in the amount of $2,400,000.00. The Legislature previously approved an appropriation for the project with Act 88, SLH 2021 in the amount of $2,600,000.00. This results in a combined appropriation of $5,000,000.00.

The State funds are available, pending the release of the funds by the Governor. Prior to requesting the Governor to release the funds, it is required that the Board of Water Supply approve to accept and expend these funds from the State. It is proposed to also document this by Resolution.

The use of State funds will allow the Department to move forward with the capital improvement project that will provide additional source improvements for the Wailua-Kapa‘a Water System.

For reference, this was the previous breakdown to request the appropriation with Act 88, SLH 2021.

Account No.: 30-20-00-605-118
Account Description: BAB/Eng/Admin/Capital Outlay – Expansion
Project Name: BAB-Cns-WK-39-Kapa‘a Homesteads Well No. 4
Budget: $2,600,000.00

OPTIONS:

Option 1: **Approve Manager's Report as recommended.**

Pro: State funds will supplement the Department of Water's funds and allow for the project to move forward with less impact to the Department's customers.

Con: State funds will require additional project management oversight to ensure that the funds are expended per State regulations and are subject to State project level audits.

Option 2: **Do Not Approve Manager's Report as recommended.**

Pro: Additional project management oversight to ensure that the funds are expended per State regulations and potential State project level audits will not be required.

Con: Additional Department funds will be required and may be passed onto the Department's customers with water rate increases.

JK/crz

Attachment(s): Resolution No. 26-02 Acceptance and Expenditure of Grant Monies from SLH Act 230 of 2024 – Kapa'a Homesteads Well No. 4

RESOLUTION NO. 26-02

Resolution No. 26-02 (12/18/25) Board Meeting

A RESOLUTION APPROVING THE ACCEPTANCE AND EXPENDITURE OF GRANT FUNDS FROM THE STATE OF HAWAII UNDER ACT 230 SLH 2024 IN THE AMOUNT OF TWO MILLION FOUR HUNDRED THOUSAND DOLLARS ($2,400,000.00).

WHEREAS, the State of Hawai'i approved funds under Act 230, SLH 2024, the supplemental budget act, in the total amount of TWO MILLION FOUR HUNDRED THOUSAND DOLLARS ($2,400,000.00) to the Department of Water, County of Kaua'i (hereinafter "DOW") for the design and construction of the Kapa‘a Homesteads Well No. 4, including ground and site improvements, and equipment and appurtenances, and drainage and other related improvements (hereinafter "Project"), provided that partial matching funds be provided by the Board of Water Supply, County of Kaua'i (hereinafter "Board"); and

WHEREAS, the Board has appropriated the required matching funds for the Project; and

WHEREAS, the Board desires to accept said approved funds under Act 230, SLH 2024, from the State of Hawai'i, and to expend said funds for the Project; now, therefore,

BE IT RESOLVED BY THE BOARD OF WATER SUPPLY, COUNTY OF KAUA'I, STATE OF HAWAI'I:

1. That it does authorize the Manager and Chief Engineer of the DOW, or his duly authorized representative, to accept funds on behalf of the Board in the amount of TWO MILLION FOUR HUNDRED THOUSAND DOLLARS ($2,400,000.00) from the State of Hawai'i for the Project; and

2. That the Manager and Chief Engineer of the DOW, or his duly authorized representative, is hereby authorized to execute any and all documents necessary to process and accept such funds, including amendments thereto; and

3. That the Manager and Chief Engineer of the DOW, or his duly authorized representative, is hereby authorized to expend such funds solely for the Project.

APPROVED AS TO FORM AND LEGALITY:

Laura M. Essenberg
Deputy County Attorney,
County of Kaua'i

BOARD OF WATER SUPPLY

Julie Simonton, Chair
4398 Pua Loke Street
Līhu'e, Hawai'i 96766

DEPARTMENT OF WATER

County of Kaua‘i

“Water has no Substitute – Conserve It!”

MANAGER’S REPORT No. 26-19

December 18, 2025

Re: Discussion and Possible Action of Resolution No. 26-03, Safe Drinking Water Revolving Fund (DWSRF) Loan of $18M for Kīlauea 1.0 MG Tank for Kaua‘i Board of Water Supply (Board)

RECOMMENDATION:

It is recommended that the Board adopt Resolution No. 26-03 pertaining to the subject loan agreement between the Board of Water Supply (Board) and the State of Hawai‘i, Department of Health.

FUNDING:

None required.

BACKGROUND:

The State of Hawai‘i, Department of Health, Safe Drinking Water Branch is proposing to issue a loan to the Department from the Drinking Water State Revolving Fund for the subject project. The Safe Drinking Water Branch has committed loan funds in the amount of $18M, with $2,161,500.00 of the $18M identified as principal forgiveness, with 1.15% interest and 1.50% annual loan fee, for a term of 20 years.

Board of Water Supply approval, documented by resolution, is required to enter into this loan agreement to secure and expend the DWSRF funds.

The funds will allow the Department to move forward with construction of the subject project.

OPTIONS:

Option 1: **Approve Manager’s Report as recommended.**

Pro: The DWSRF loan provides a 20-year, low-interest loan to fund the construction of the subject project.

Con: DWSRF funds require an additional level of project management oversight to ensure that the funds are expended per State regulations and are subject to State project level audits.

Option 2: **Do Not Approve Manager’s Report as recommended.**

Pro: Project management expenditures will not be subject to State project level audits.

Con: The Department will not be able to move forward with the construction of the subject project in the near future due to the lack of the fund.

JK/crz

Attachment(s): Resolution No. 26-03 Safe Drinking Water Revolving Fund (DWSRF) Loan of $18M for Kīlauea 1.0 MG Tank for Kaua‘i Board of Water Supply (Board)

RESOLUTION NO. 26-03

Resolution No. 26-03 (12/18/25) Board Meeting

A RESOLUTION APPROVING THE RECEIPT AND EXPENDITURE OF MONIES FOR:

DW407-0003, WKK-15 Kilauea 1.0 MG Tank for the Department of Water:

FUNDED BY THE DRINKING WATER STATE REVOLVING FUND (DWSRF); AND AUTHORIZING THE MANAGER AND CHIEF ENGINEER TO REDUCE, REPLACE, ALLOCATE, AND EXPEND UP TO $18,000,000.00 IN MONIES FOR SAID PROJECT, THE AMOUNT PROJECTED FOR FUTURE CONSTRUCTION, CONSTRUCTION MANAGEMENT, PLUS CHANGE ORDER AMENDMENTS, IN THE FORM OF A LOAN AGREEMENT OR GRANT BETWEEN THE STATE OF HAWAI'I (State) AND BOARD OF WATER SUPPLY, COUNTY OF KAUA'I (Board)

WHEREAS, the Board of Water Supply, County of Kaua'i (Board) desires to authorize the Manager and Chief Engineer, County of Kaua'i, to request and execute loan/grant applications and agreements with the State of Hawai'i (State) in order to receive funding from the Drinking Water State Revolving Fund (DWSRF) for the subject project to achieve and maintain compliance in accordance with the Federal Safe Drinking Water Act and its amendments, 42 USCA 300f et seq.; and

WHEREAS, Hawai'i Revised Statutes (HRS) Sections 340E-31 through 340E-41 establish a drinking water treatment revolving loan fund, also known as the DWSRF, for the purpose of protecting and improving drinking water quality by financing eligible projects consistent with applicable federal and state laws; and

WHEREAS, the State Department of Health may execute a loan and/or grant to the Board funded by the DWSRF for the project pursuant to HRS Sections 340E-34 through 340E-37; and

WHEREAS, the Department of Water, County of Kaua'i (DOW) anticipates encumbering or receiving up to $18,000,000.00 in DWSRF funds for the subject project; and

WHEREAS, under Article XVII of the Kaua'i County Charter, expressly and by implication, the Board is the governing body of the DOW and the Board warrants that it has the full authority to manage, control, and operate the DOW waterworks of the County of Kaua'i, and all DOW waterworks finances and property; and

WHEREAS, the Board and DOW also have broad authorities over County waterworks and facilities under the authorities granted to Counties and their Boards of Water Supply by HRS Sections 46-1.5 (19) and (23), and Chapter 54; and to the extent that such statutes are not superseded by the County Charter's provisions; and

WHEREAS, the Board, to the extent permitted by law, may request and consent to the pledge of revenues for the construction and acquiring of capital improvements, and the Board warrants that it has such authority for these Projects; and

WHEREAS, for the purpose of this Resolution, any loan/grant from the DWSRF shall constitute an obligation of the DOW; therefore,

RESOLUTION NO. 26-03

BE IT RESOLVED BY THE BOARD OF WATER SUPPLY COUNTY OF KAUA'I, STATE OF HAWAI'I:

1. That the Board Chair is authorized to enter into loan agreements with the State of Hawai'i for the project mentioned in paragraph 2 below, and

2. That the Manager and Chief Engineer of DOW is hereby authorized to reduce, replace, and/or allocate up to **$18,000,000.00** in funds advanced by the DOW to undertake the project DW407-0003, WKK-15, Kilauea 1.0 MG Tank, in the form of a loan or grant agreement(s) between the State Department of Health and the Board, and is hereby authorized to execute any and all documents necessary to effectuate such loan and/or grant agreement(s); and

3. That the receipt and expenditure of loan and/or grant monies from the DWSRF for the CIP project is hereby approved; and

4. That any monies received as a loan and/or grant be used to reduce or replace funds advanced by the DOW to undertake the eligible CIP project; and

5. That the monies received as a loan and the resulting debt service be included as a part of DOW debt service with annual payments budgeted according to the debt service schedule to be provided by the State; and

6. That the funds borrowed by the DOW are to be held to the same accounting standards as funds borrowed through the issuance of bonds; and

7. That the Board and DOW further pledge sufficient DOW revenue as to provide security for repayment of the loan, plus interest and loan fees, pursuant to the loan agreement; and

8. That the Board and DOW pledge it shall exercise their revenue bond, revenue, assessment, and other authority as needed, to the extent allowed by law, to pay the semiannual repayments and any loan fees under this agreement. As needed, the Board and DOW shall establish, increase, and collect such fees, assessments, and revenues and make such adjustments to raise funds sufficient to repay the loan and pay any loan fees under this agreement, as permitted by law; and

BE IT FURTHER RESOLVED that this Resolution shall take effect upon the adoption thereof, and that the Secretary be directed to provide certified copies of this Resolution to the Manager and Chief Engineer of the DOW, Controller of DOW, Mayor of the County of Kaua'i, and the Director of the State Department of Health.

APPROVED AS TO FORM AND LEGALITY:

Laura M. Essenberg
Deputy County Attorney,
County of Kaua'i

BOARD OF WATER SUPPLY

Julie Simonton, Chair
4398 Pua Loke Street
Līhu'e, Hawai'i 96766

DEPARTMENT OF WATER

County of Kaua‘i

“Water has no Substitute – Conserve It!”

MANAGER’S REPORT No. 26-20

December 18, 2025

Re: Discussion and Possible Action of Resolution No. 26-04, Safe Drinking Water Revolving Fund (DWSRF) Pro-Fi Loan of $3M for SFY 26-27 for Kaua‘i Board of Water Supply (Board)

RECOMMENDATION:

It is recommended that the Board adopt Resolution No. 26-04 pertaining to the subject loan agreement between the Board of Water Supply (Board) and the State of Hawai‘i, Department of Health.

FUNDING:

None required.

BACKGROUND:

The State of Hawai‘i, Department of Health, Safe Drinking Water Branch is proposing to issue a loan to the Department from the Drinking Water State Revolving Fund for the subject project. The Safe Drinking Water Branch has committed loan funds in the amount of $3M, with $228,000.00 of the $3M identified as principal forgiveness, with 1.15% interest and 1.50% annual loan fee, for a term of 20 years.

Board of Water Supply approval, documented by resolution, is required to enter into this loan agreement to secure and expend the DWSRF funds.

The funds will allow the Department to move forward with its projects and specific equipment purchases that will provide critical infrastructure improvements.

OPTIONS:

Option 1: **Approve Manager’s Report as recommended.**

Pro: The DWSRF loan provides 20-year, low-interest supplemental funding to facilitate equipment purchases which will be used to address critical water system needs and enable the Department's projects to move forward.

Con: DWSRF funds require an additional level of project management oversight to ensure that the funds are expended per State regulations and are subject to State project level audits.

Option 2: **Do Not Approve Manager’s Report as recommended.**

Pro: Project management expenditures will not be subject to State project level audits.

Con: The Department will be limited in the amount of projects and specific equipment purchases it can perform because of the funds required.

JK/crz

Attachment(s): Resolution No. 26-04 DWSRF Pro-Fi SFY 2026-2027 for KBWS

RESOLUTION NO. 26-04

Resolution No. 26-04 (12/18/25) Board Meeting

A RESOLUTION APPROVING THE RECEIPT AND EXPENDITURE OF MONIES FOR:

KAUA'I DOW PRO-FI SFY 2026-2027, KDOW-PF26-27

FUNDED BY THE DRINKING WATER STATE REVOLVING FUND (DWSRF); AND AUTHORIZING THE MANAGER AND CHIEF ENGINEER TO REDUCE, REPLACE, ALLOCATE, AND EXPEND UP TO $3,000,000.00 IN MONIES FOR SAID PROJECT, IN THE FORM OF A LOAN AGREEMENT OR GRANT BETWEEN THE STATE OF HAWAI'I (State) AND BOARD OF WATER SUPPLY, COUNTY OF KAUA'I (Board)

WHEREAS, the Board of Water Supply, County of Kaua'i (Board) desires to authorize the Manager and Chief Engineer, County of Kaua'i, to request and execute loan/grant applications and agreements with the State of Hawai'i (State) in order to receive funding from the Drinking Water State Revolving Fund (DWSRF) for various eligible Board Capital Improvement Program (CIP) Projects and equipment purchases to achieve and maintain compliance in accordance with the Federal Safe Drinking Water Act and its amendments, 42 USCA 300f et seq.; and

WHEREAS, Hawai'i Revised Statutes (HRS) Sections 340E-31 through 340E-41 establish a drinking water treatment revolving loan fund, also known as the DWSRF, for the purpose of protecting and improving drinking water quality by financing eligible projects and equipment purchases consistent with applicable federal and state laws; and

WHEREAS, the State Department of Health may execute a loan and/or grant to Board funded by the DWSRF for the Projects pursuant to HRS Sections 340E-34 through 340E-37; and

WHEREAS, Department of Water, County of Kaua'i (DOW) anticipates encumbering or receiving up to $3,000,000.00 in DWSRF funds for various CIP Projects, including design, construction and contingency costs, and eligible equipment purchases in Fiscal Years 2026-2027 ending June 30, 2027; and

WHEREAS, DOW will budget and reflect the anticipated loan amounts according to the applicable fiscal year, subject to Board approval, although the loan period covers two fiscal years; and

WHEREAS, actual design, construction, and contingency costs associated with DOW CIP Projects and eligible equipment costs are unknown at this time, but shall be confirmed and this resolution amended accordingly should DOW be eligible to receive reimbursement for CIP Project costs and equipment purchases in excess of the amount authorized herein by this resolution; and

WHEREAS, under Article XVII of the Kaua'i County Charter, expressly and by implication, the Board is the governing body of the DOW and the Board warrants that it has the full authority to manage, control, and operate the DOW waterworks of the County of Kaua'i, and all DOW waterworks finances and property; and

WHEREAS, the Board and DOW also have broad authorities over County waterworks and facilities under the authorities granted to Counties and their Boards of Water Supply by HRS Sections 46-1.5 (19) and (23), and Chapter 54; and to the extent that such statutes are not superseded by the County Charter's provisions; and

WHEREAS, the Board, to the extent permitted by law, may request and consent to the pledge of revenues for the construction and acquiring of capital improvements, and the Board warrants that it has such authority for these Projects; and

RESOLUTION NO. 26-04

WHEREAS, for the purpose of this Resolution, any loan/grant from the DWSRF shall constitute an obligation of the DOW; therefore,

BE IT RESOLVED BY THE BOARD OF WATER SUPPLY COUNTY OF KAUA'I, STATE OF HAWAI'I:

1. That the Board Chair is authorized to enter into loan agreements with the State of Hawai'i for the projects mentioned in paragraph 2 below, and

2. That the Manager and Chief Engineer of DOW is hereby authorized to reduce, replace, and/or allocate up to **$3,000,000.00** in funds advanced by the DOW to undertake the eligible CIP Projects and equipment purchases in the form of loan or grant agreement(s) between the State Department of Health and the Board, and is hereby authorized to execute any and all documents necessary to effectuate such loan and/or grant agreement(s); and

3. That the receipt and expenditure of loan and/or grant monies from the DWSRF for CIP Projects is hereby approved; and

4. That any monies received as a loan and/or grant be used to reduce or replace funds advanced by the DOW to undertake the eligible CIP Projects and equipment purchases; and

5. That the monies received as a loan and the resulting debt service be included as a part of DOW debt service with annual payments budgeted according to the debt service schedule to be provided by the State; and

6. That the funds borrowed by the DOW are to be held to the same accounting standards as funds borrowed through the issuance of bonds; and

7. That the Board and DOW further pledge sufficient DOW revenue as to provide security for repayment of the loan, plus interest and loan fees, pursuant to the loan agreement; and

8. That the Board and DOW pledge it shall exercise their revenue bond, revenue, assessment, and other authority as needed, to the extent allowed by law, to pay the semiannual repayments and any loan fees under this agreement. As needed, the Board and DOW shall establish, increase, and collect such fees, assessments, and revenues and make such adjustments to raise funds sufficient to repay the loan and pay any loan fees under this agreement, as permitted by law; and

BE IT FURTHER RESOLVED that this Resolution shall take effect upon the adoption thereof, and that the Secretary be directed to provide certified copies of this Resolution to the Manager and Chief Engineer of the DOW, Controller of DOW, Mayor of the County of Kaua'i, and the Director of the State Department of Health.

APPROVED AS TO FORM AND LEGALITY:

Laura M. Essenberg
Deputy County Attorney,
County of Kaua'i

BOARD OF WATER SUPPLY

Julie Simonton, Chair
4398 Pua Loke Street
Līhu'e, Hawai'i 96766

DEPARTMENT OF WATER

County of Kaua'i

"Water has no Substitute – Conserve It!"

MANAGER'S REPORT No. 26-21

December 18, 2025

Re: Discussion and Possible Action on the Joint Funding Agreement (JFA) with U.S. Geological Survey (USGS) for the Period of October 1, 2025 to September 30, 2026

RECOMMENDATION:

It is recommended that the Board approve the JFA to continue the Department of Water's (DOW's) cooperative groundwater and surface water monitoring program at selected sites for the period of October 1, 2025 to September 30, 2026.

FUNDING:

Account No.	10-20-10-540-010				
Acct Description	WU/Eng/Admin/Professional Services				
Funds Available	*Verified by WWC*			$	Fiscal to verify
Contract No.	N/A				
Vendor	USGS				
	Contract Amount	$	$74,960.00		
	5% Contingency	$	N/A		
	Total Funds Certified To Date	$			
Amendment:					
Description		$	N/A		
	Total Amendment	$	N/A		
Contract Amount To Date		$	$74,960.00		
Fund Balance				$	Fiscal to verify

BACKGROUND:

DOW continues to use the services of the USGS through the JFA cooperative groundwater and surface water monitoring program. The purpose of the monitoring programs are to collect data needed to evaluate the status and trends of water levels in selected wells, streamflow, and rainfall at selected sites on Kaua'i. Data is collected by USGS in accordance with well-documented techniques and quality-assurance procedures.

OPTIONS:

Option 1: **Approve Manager's Report as recommended.**

Pro: Continue the cooperative groundwater and surface water monitoring program with the U.S. Geological Survey (USGS).

Con: The cooperative groundwater-monitoring program requires funding.

Option 2: **Approve Manager's Report only "As-Needed Support Services."**
Pro: Reduce our expenses although the information we obtain is useful.

Con: Discontinue the cooperative groundwater and surface water monitoring program with the USGS.

JK/crz

Attachment(s): USGS Joint Funding Agreement (October 1, 2025 through September 30, 2026)

United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Pacific Islands Water Science Center
1845 Wasp Blvd, Bld 176
Honolulu, HI 96818

September 4, 2025

Joseph Tait
Manager and Chief Engineer
Department of Water, County of Kauai
4398 Pua Loke Street
Lihue, HI 96766

Dear Joseph Tait:

Subject: Joint Funding Agreement to continue our cooperative water-resources monitoring program with Kauai Department of Water at selected sites on the island of Kauai during the period October 1, 2025, to September 30, 2026.

Enclosed is our standard joint-funding agreement 26ZHJFA00010 between the U.S. Geological Survey (USGS) Pacific Islands Water Science Center and the County of Kauai Department of Water (KDOW) to continue our cooperative water-resources monitoring program at selected sites on the Island of Kauai, during the period October 1, 2025 through September 30, 2026 in the amount of $74,960 from your agency. U.S. Geological Survey contributions for this agreement are $8,540 for a combined total of $83,500. Please sign and return one fully executed original to Sharbra Gordon-Scott at gs-w-hi-piwsc_agreements@usgs.gov or mail to the address above.

The purpose of the water-resources monitoring program is to collect data necessary to assess the current conditions and long-term trends of groundwater levels, streamflow, and rainfall at selected sites across the island of Kauai. Data are collected by the USGS in accordance with well documented techniques and quality assurance procedures. Data are stored in the USGS Water Data for the Nation database and are publicly available on the internet website (http://hi.water.usgs.gov).

The number and type of monitoring stations is periodically adjusted to meet current priorities and available funds. A complete list of monitoring stations and associated costs for the period October 1, 2025 to September 30, 2026 (Federal Fiscal Year 2026) is attached to the JFA.

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **October 1, 2025**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact Christopher Laveau at (701) 213-8694 or email cdlaveau@usgs.gov to make alternative arrangements.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Sharbra Gordon-Scott at phone number (253) 552-1698 or gs-w-hi-piwsc_agreements@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

SCOTT VANDERKOOI
Digitally signed by SCOTT VANDERKOOI
Date: 2025.09.02 20:58:39 -07'00'

Scott VanderKooi
Acting Center Director

Enclosure
26ZHJFA00010 (1)

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000001186
Agreement #: 26ZHJFA00010
Project #: ZH00GSN
TIN #: 99-6000658

Fixed Cost Agreement YES[X] NO[ ]

THIS AGREEMENT is entered into as of **October 1, 2025**, by the U.S. GEOLOGICAL SURVEY, Pacific Islands Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Department of Water, County of Kauai party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation for negotiated deliverables (see attached), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of $0.00

(a) **$8,540** by the party of the first part during the period **October 1, 2025 to September 30, 2026**

(b) **$74,960** by the party of the second part during the period **October 1, 2025 to September 30, 2026**

(c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: $0

Description of the USGS regional/national program:

(d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.

(e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (https://www.usgs.gov/office-of-science-quality-and-integrity/fundamental-science-practices).

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000001186
Agreement #: 26ZHJFA00010
Project #: ZH00GSN
TIN #: 99-6000658

9. Billing for this agreement will be rendered **quarterly**. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Christopher Laveau
Supervisory Hydrologist
Address: 934 Broadway Suite 300
Tacoma, WA 98402
Telephone: (701) 213-8694
Fax: (n/a)
Email: cdlaveau@usgs.gov

Customer Technical Point of Contact

Name: Joseph Tait
Manager and Chief Engineer
Address: 4398 Pua Loke Street
Lihue, HI 96766
Telephone: (808) 245-5403
Fax: (n/a)
Email: jtait@kauaiwater.org

USGS Billing Point of Contact

Name: Sharbra Gordon-Scott
Budget Analyst
Address: 934 Broadway Suite 300
Tacoma, WA 98402
Telephone: (253) 552-1698
Fax: (253) 552-1581
Email: sgordon-scott@usgs.gov

Customer Billing Point of Contact

Name: Renee Yadao
Waterworks Controller
Address: 4398 Pua Loke Street
Lihue, HI 96766
Telephone: (808) 245-5422
Fax: (n/a)
Email: ryadao@kauaiwater.org

U.S. Geological Survey
United States
Department of Interior

Signature

By SCOTT VANDERKOOI Digitally signed by SCOTT VANDERKOOI Date: 2025.09.02 20:59:07 -07'00' **Date:** 9/2/2025
Name: Scott VanderKooi
Title: Acting Center Director

Department of Water, County of Kauai

Signatures

By_____ **Date:** _____
Name:
Title:

By_____ **Date:** _____
Name:
Title:

By_____ **Date:** _____
Name:
Title:

Department of Water, County of Kauai

Attachment for 26ZHJFA00010
2025-10-01 to 2026-09-30

SURFACE WATER

SITE Collection Description	FUNDS USGS	COOP	TOTAL
16057900 Waiahi Str US Upper Powerhouse, Kauai, HI Full Range Streamflow Station	$4,415	$23,065	**$27,480**
16060000 SF Wailua River nr Lihue, Kauai, HI Full Range Streamflow Station	$2,916	$15,224	**$18,140**
Total:	**$7,331**	**$38,289**	**$45,620**

Department of Water, County of Kauai
26ZHJFA00010 (continued)

CLIMATE

SITE Collection Description	FUNDS USGS	COOP	TOTAL
220122159275401 10545.0 Waiahi RG at alt. 815 ft., Kauai, HI Precipitation, Continuous	$1,209	$6,311	**$7,520**
Total:	**$1,209**	**$6,311**	**$7,520**

Department of Water, County of Kauai
26ZHJFA00010 (continued)

GROUND WATER

SITE Collection Description	FUNDS USGS	COOP	TOTAL
215454159274201 2-5427-01 Koloa W-A, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
215522159342601 2-5534-03 Hanapepe Town, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
215630159265101 2-5626-01 Puakukui Springs, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
215803159401201 2-5840-01 Waimea W-A, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
215857159430101 2-5843-01 Kekaha Shaft (S12), Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
215901159235301 2-5923-01 Kilohana W-A, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
215950159231601 2-5923-08 Hanamaulu Mon. Well, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
215958159214301 2-5921-01 Kalepa Ridge W-10, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
220354159205602 2-0320-03 Nonou W-B, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
220825159185301 2-0818-03 Anahola C, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
221247159324801 2-1232-01 Wainiha W-1, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
221318159335901 2-1333-01 Haena W-66, Kauai, HI Groundwater Level, Measurement		$2,530	**$2,530**
Total:		**$30,360**	**$30,360**
GRAND TOTAL:	**$8,540**	**$74,960**	**$83,500**

DEPARTMENT OF WATER

County of Kaua‘i

Board of Water Supply

Officers and Committee Members for 2026

(Effective January 1, 2026)

Current Members

2025 Board Officers:		**2026 Board Officers:**
Chair:	Julie Simonton	Chair:
Vice Chair:	Tom Shigemoto	Vice Chair:
Secretary:	Micah Finnila	Secretary:

Rules Committee		**Rules Committee**
Chair:	Vacant	Chair:
Member:	Julie Simonton	Member:
Member:	Troy Tanigawa	Member:

Finance Committee		**Finance Committee**
Chair:	Tom Shigemoto	Chair:
Member:	Ka‘aina Hull	Member:
Member:	Micah Finnila	Member:

Committee of the Whole *(All Board Members)*		**Committee of the Whole** *(All Board Members)*
Chair:	Julie Simonton	Chair:

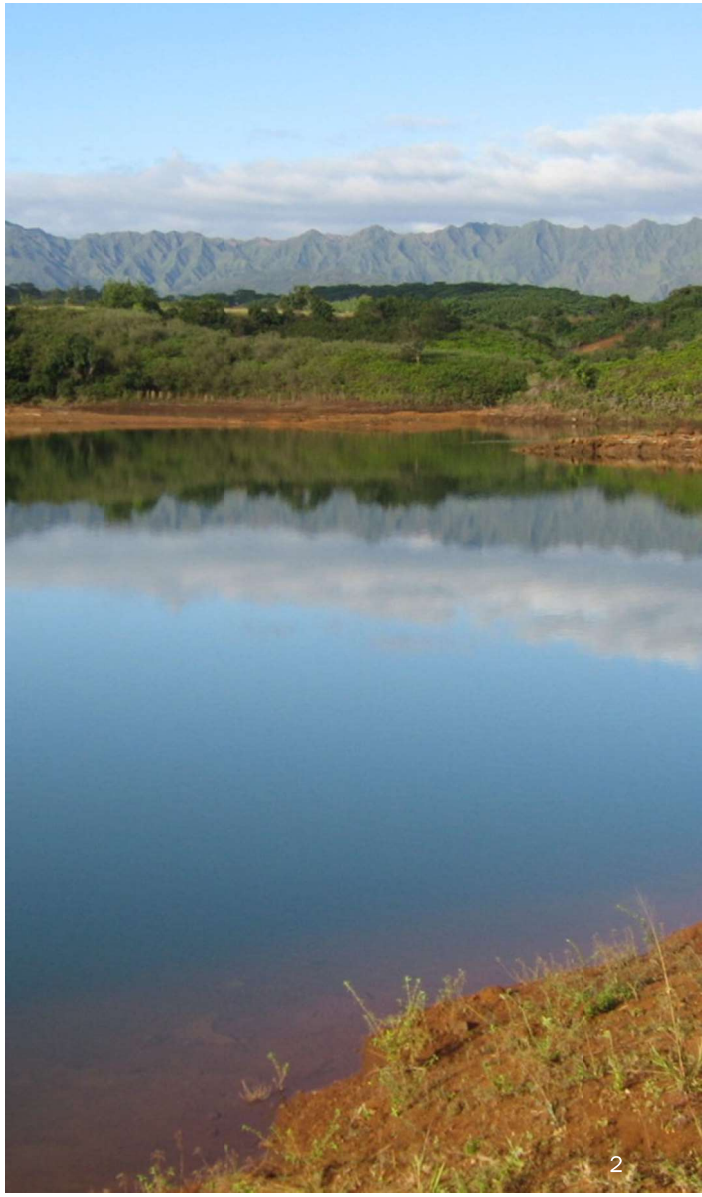
Informational Briefing

Water Systems Investment Plan (WSIP)
Water Rate and FRC Results Summary

December 18, 2025

Agenda

- CIP Development and Prioritization
- Water Rate Study - Recap of Revenue Requirements Results
  - Summarize changes and impacts from November Board Mtg, i.e. add staff augmentation in Scenarios 1 and 2
  - Any follow up questions/comments from November Board Mtg?
- FRC Study Results
  - Brief summary from April 2025 Board Mtg
  - Any follow up questions/comments?
- Next Steps
  - At January 22nd Board Mtg, Board Approves
    - Water Rate Scenario recommendation to go to the public
    - FRC recommendation to go to the public
  - Public Outreach in Q2 2026
  - Implement New Rates and FRC by Q3 2026
  - Start Cost-of-Service and Rate Design efforts in Q3 2026



Updated Schedule

Line No.	Process for New Rate Implementation	2025 APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2026 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	**Board In-Person FRC Workshop - April 22**	Board																		
2	FY 2026 Budget Implemented				FY26															
3	**Board In-Person Presentation Rates Process - August 11**					Board														
4	BC Conducts Public Information Meetings - CIP						CIP Public Mtgs													
5	Harris Updates Revenue Requirements (RR)																			
6	Review of RR by KDOW Staff and BC Team																			
7	**Board In-Person Presentation Draft Rates & FRC - November 20**								Board											
8	Harris Update Rates and FRC as needed per Board feedback																			
9	**Board Meeting Discuss Rates & FRC Issues - December**									Board										
10	Board Meeting Finalize Rates & FRC - January										Board									
11	Harris Supports Outreach Activities Including Board Mtg Support																			
12	**Public Information Outreach (In-Person Meetings TBD)**											Public Outreach								
13	**Small Business Association Outreach (In-Person Meetings TBD)**											SBA Outreach								
14	Conduct Ka Pa'akai Analyses											Ka Pa'akai Analysis								
15	Board Meeting Discuss Rates & FRC Issues as needed - February											Board								
16	Board Meeting Discuss Rates & FRC Issues as needed - March												Board							
17	Board Meeting Discuss Rates & FRC Issues as needed - April													Board						
18	Board Meeting Send Out Public Hearing Notice - May														Board					
19	Public Hearing at June-August Board Meetings															Public Hearings				
20	Harris Update Rate Schedules as Needed/Draft Final Recommendation																			
21	Board Meeting - Final Rates Approved - August																	Board		
22	KDOW Updates Billing System																			
23	Implement New FRC and Rates - Q2/Q3 as soon as practical																FY27		New Rates/FRC	

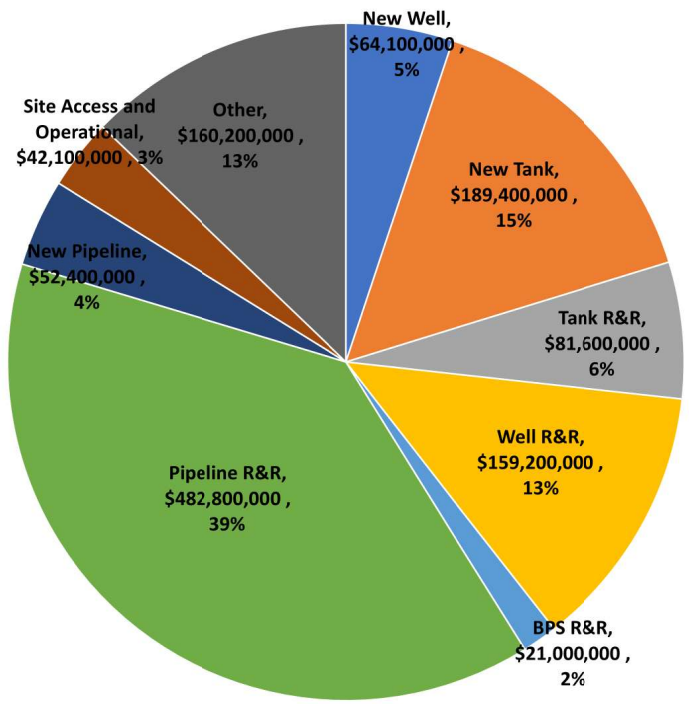
CIP Development and Prioritization

CIP Definitions

- “Planned Buildout” CIP
- “Prioritized 20-year” CIP
- “Prioritized Achievable” CIP

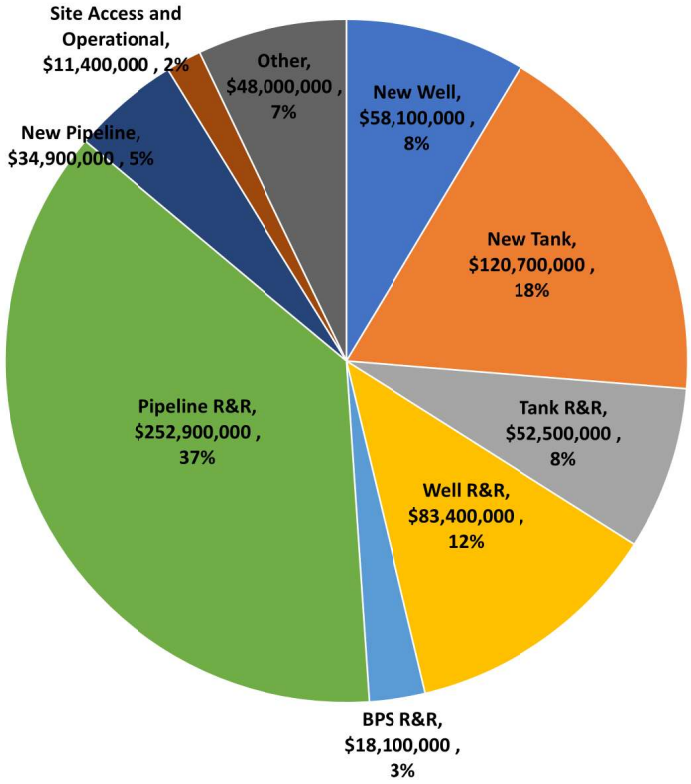
Planned Buildout

173 Projects, $1.3B, $63M/yr



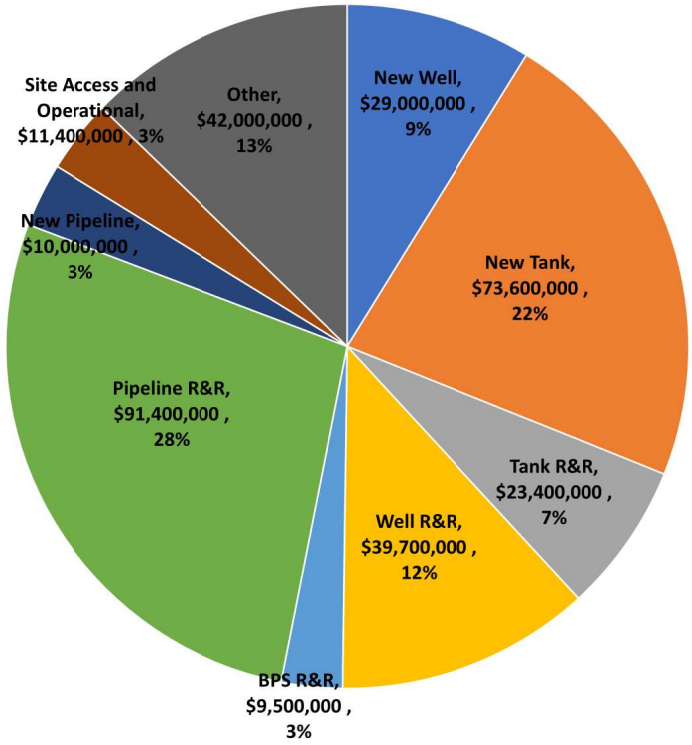
Prioritized 20-Year

109 Project, $680M, $34M/yr



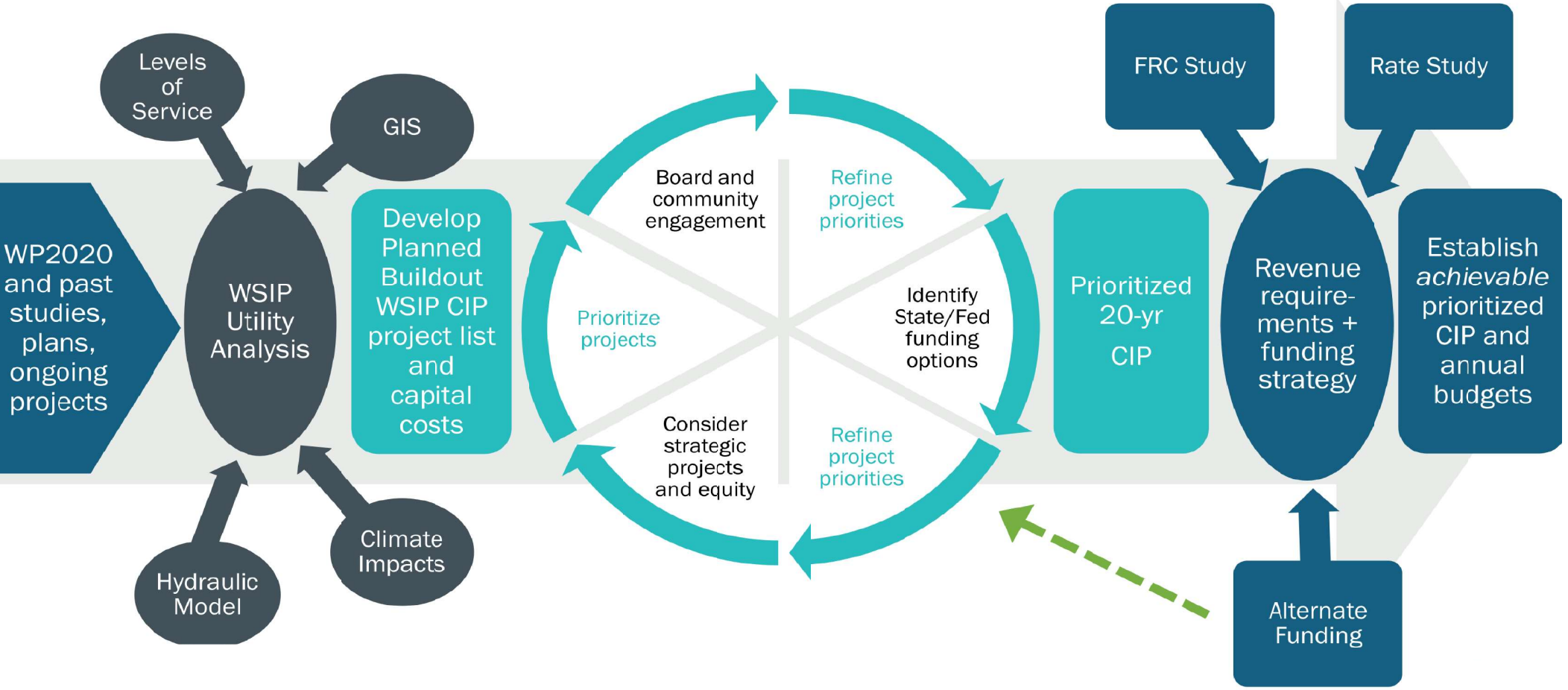
Prioritized Achievable

54 Projects, $330M, $16.5M/yr



*As of December 10, 2025

The CIP "Process"



Prioritizing the CIP

How should DOW and the Board of Water Supply **prioritize** CIP investments to align with the department's **values, goals**, and **commitments**?

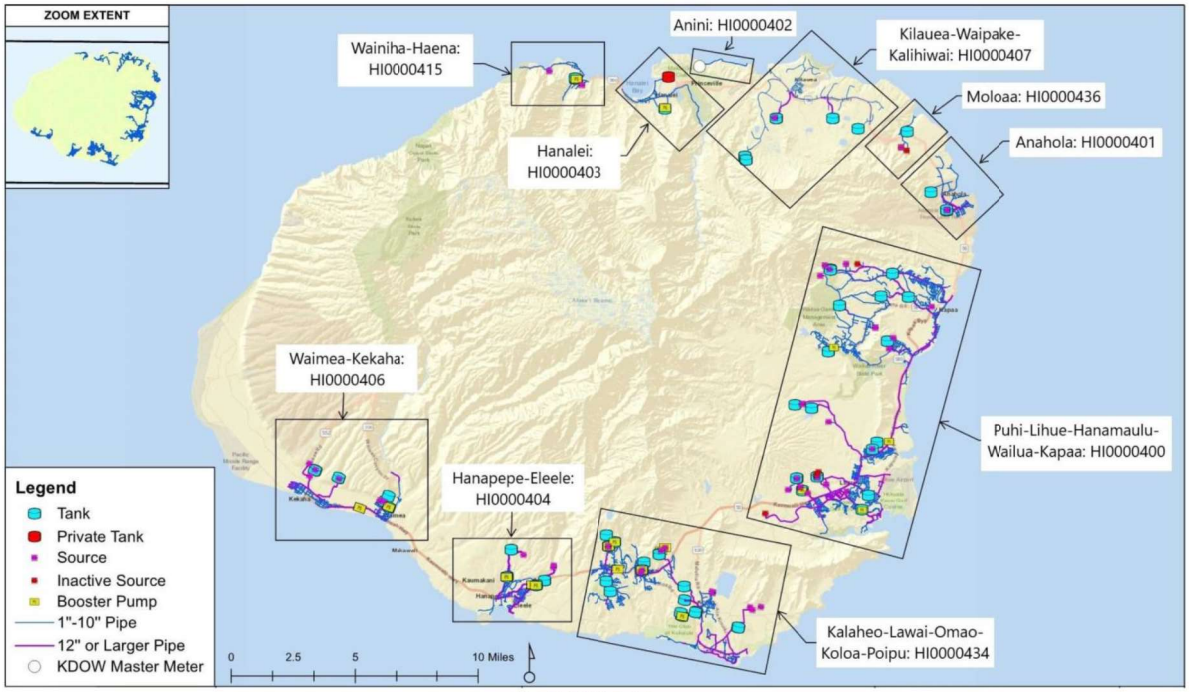


Figure 1-1. KDOW Water Systems

Multiple Criteria Decision Analysis (MCDA): Determine Key Criteria for Levels of Service

*Considered in the Water Plan 2020 criteria

LOS CATEGORY	PROPOSED CRITERIA
Workforce	• Not a differentiator - factor is so important that ANY and ALL CIP must include the proper amount of training and staffing
Financial	1. Availability of funding for project
Regulatory/Standards	2. Resolves fire flow deficiencies* 3. Improves water safety*
Customer Service	4. Replaces components in poor condition* 5. Project serves a critical connection in the water system
Redundancy/Resiliency	6. Improvement addresses system vulnerabilities – Redundancy 7. Improvement addresses system vulnerabilities – Climate
Growth & Expansion	8. Addresses capacity deficiency*
System Operations	• Not a differentiator - factor so important that ANY and ALL CIP must be operable and maintainable
Water Resource Stewardship	• Environmental impact

Criteria Scoring: Addresses Capacity Deficiency

9

LOS: Ability to Adapt // Growth & Expansion
Description: Projects that would address capacity deficiencies in the existing system.

Meets Mandatory Criteria → **Additional Benefits**

- Pipes: N/A
- **Storage:** Project serves pressure zone with the greatest MDD or supply *surplus* (gallons)

- Pipes: N/A
- **Storage:** Project serves pressure zone with the greatest MDD or supply *deficiency* (gallons)

Examples:

Project Name	Description		Normalized "Score"
HW-11	Construct 0.2 MG Storage Tank, 144'	59,000 gallon **deficiency**	0.67
K-05a	Kalaheo New Tank, 0.5MG, 886'	231,000 gallon **surplus**	0.0
K-16	Abandon Kalaheo Well No. 24	N/A	Does not address criterion

Criteria Scoring: Resolves Fire Flow Deficiencies

2

LOS: Duty to Public // Regulatory & Standards
Description: Projects that would reduce or resolve fire flow deficiencies in the existing system.

Meets Mandatory Criteria → **Additional Benefits**

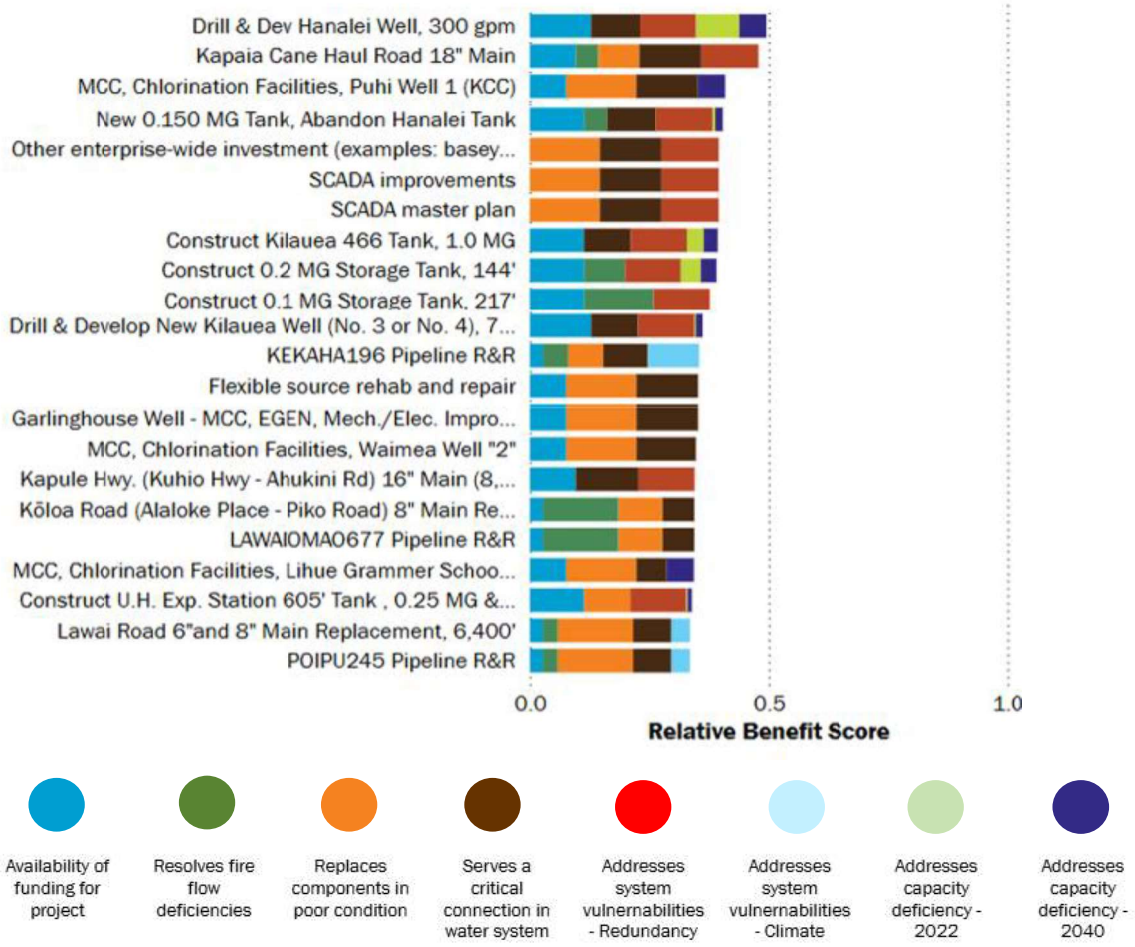
- **Pipes:** In pressure zone with no deficient hydrants
- **Storage:** Serves pressure zone with the greatest fire flow *surplus* (gallons)

- **Pipes:** In pressure zone with most deficient hydrant connections (# connections)
- **Storage:** Serves pressure zone with the greatest fire flow *deficiency* (gallons)

Examples:

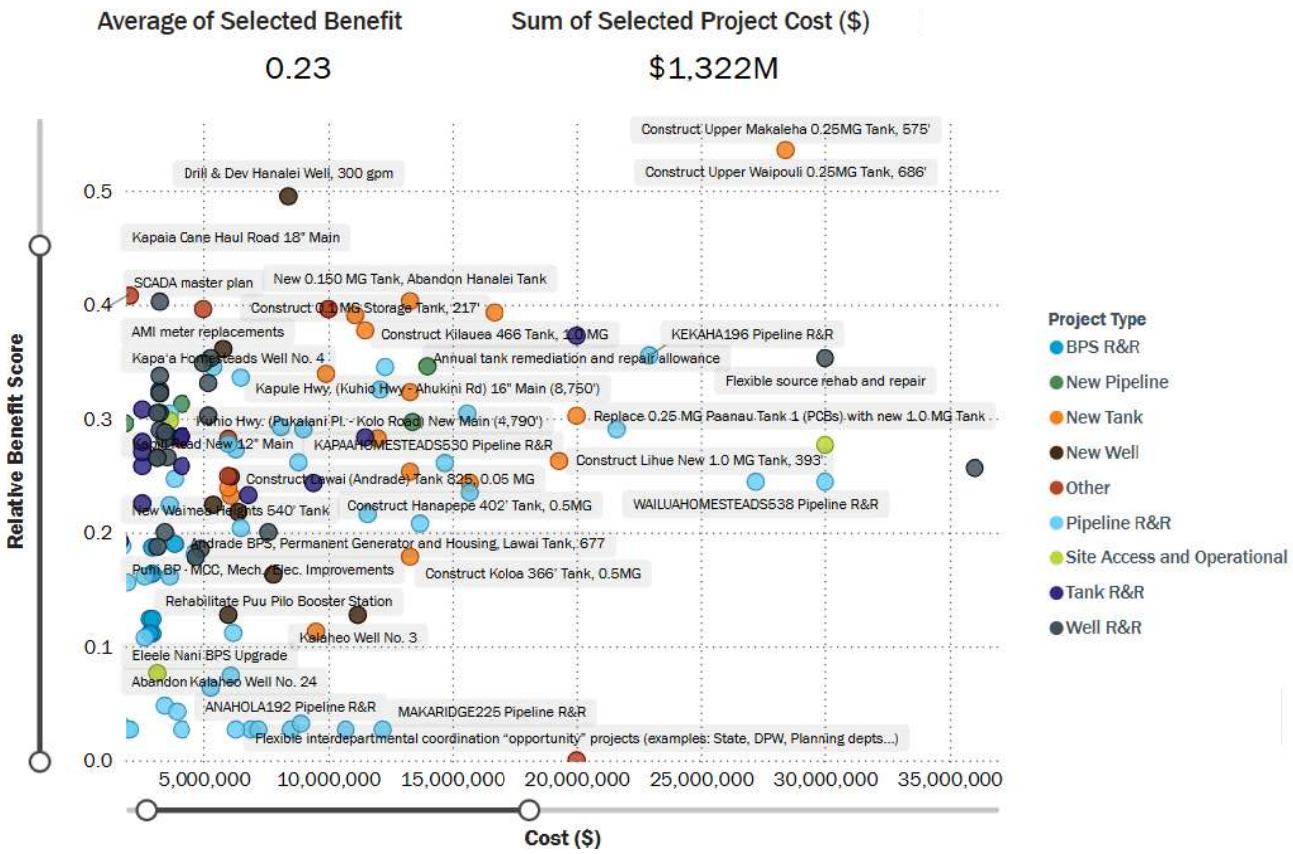
Project Name	Description	Score	Normalized Score
HW-11	Construct 0.2 MG Storage Tank, 144'	104,958 gallon **deficiency**	1.00

MCDA Tool



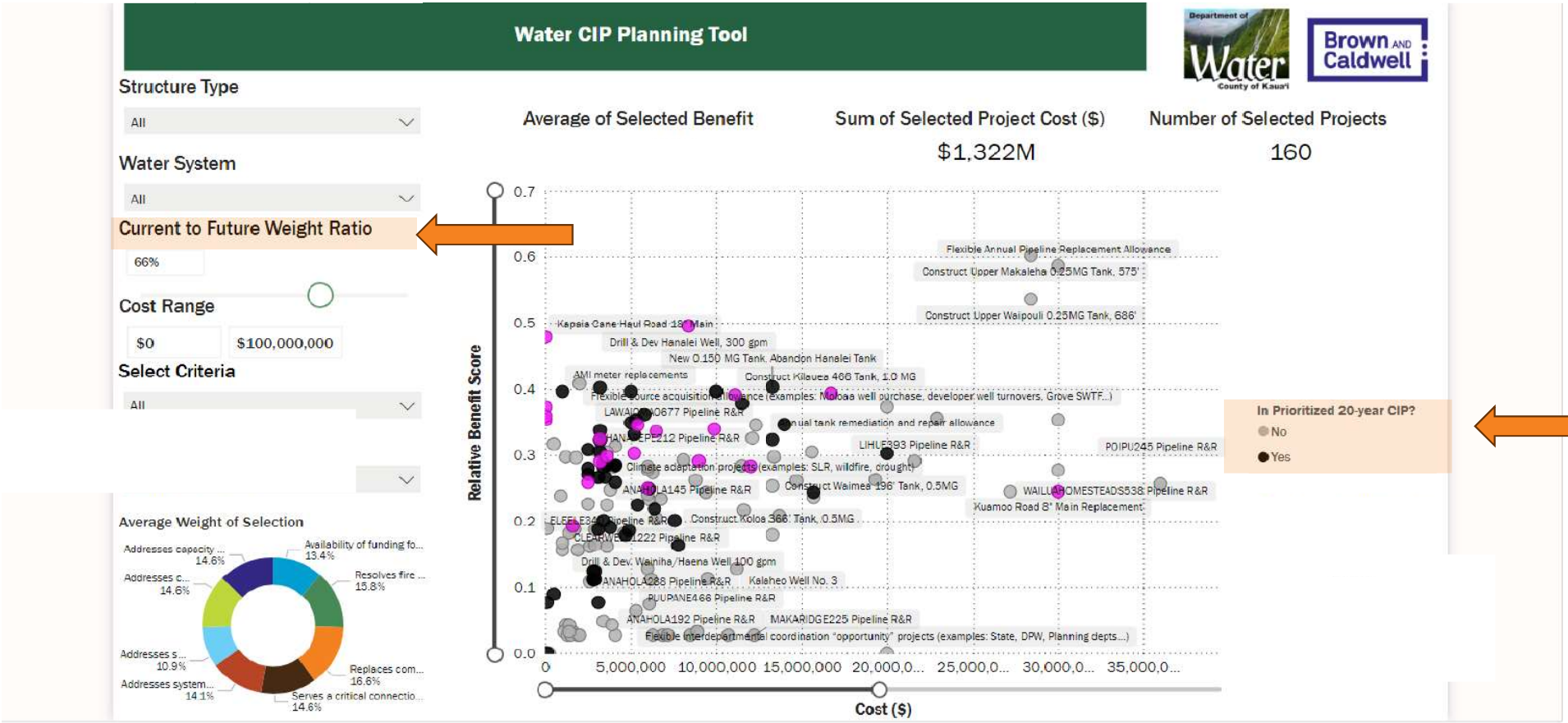
It is important to look first at **benefits**, and reasons for benefits...

Identifying High-Value Capital Projects

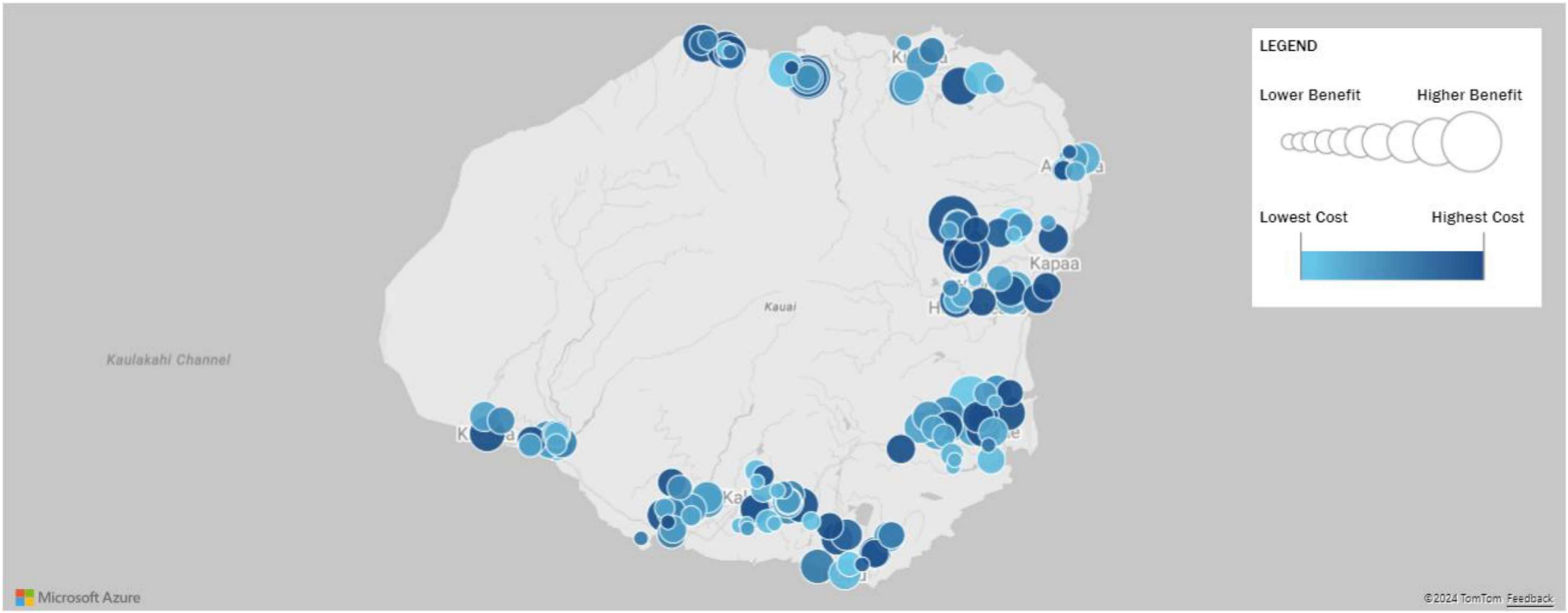


... and then layer in cost to fully grasp high value projects.

Identifying High-Value Capital Projects

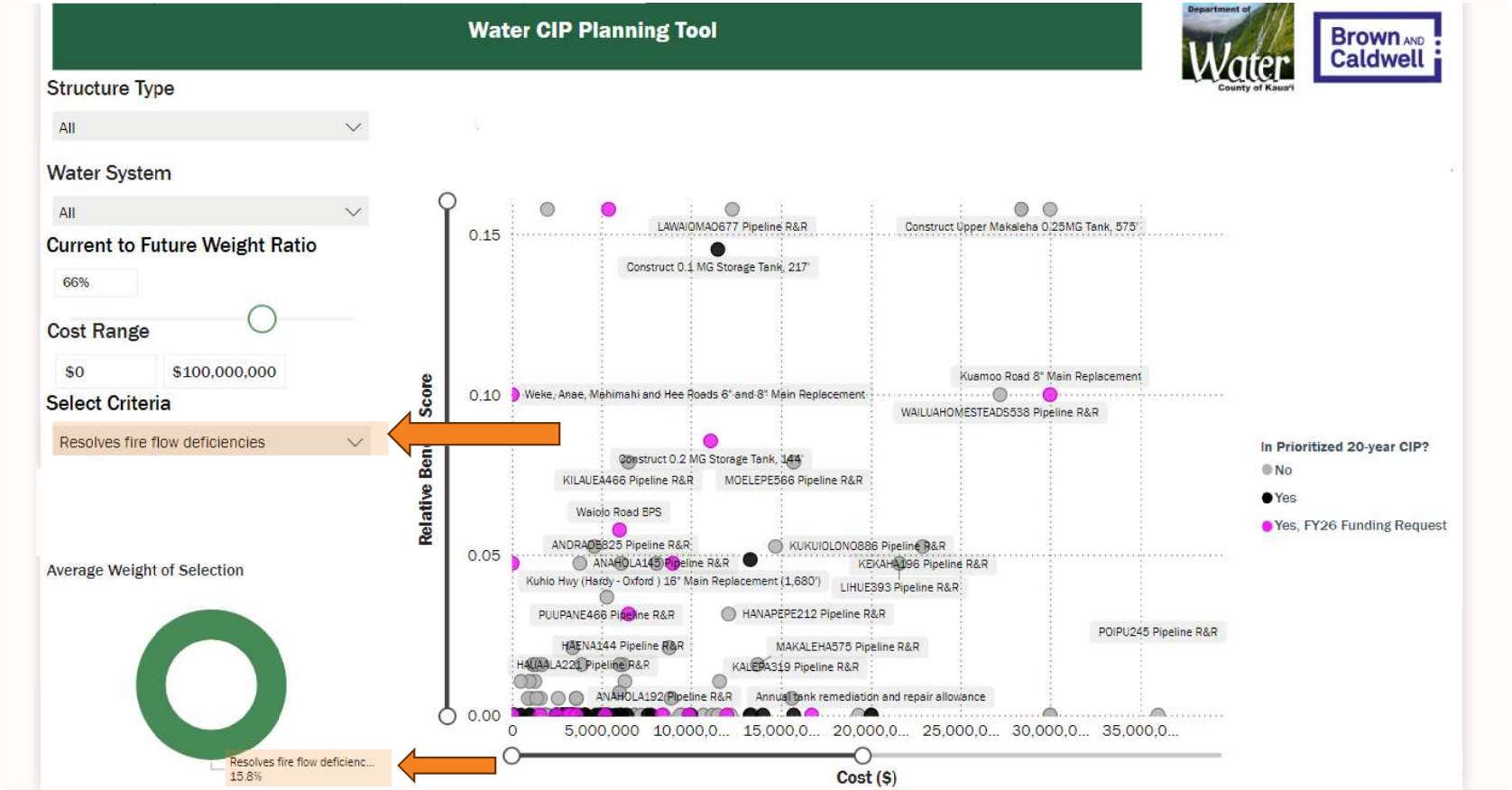


Identifying High-Value Capital Projects



Identifying Projects that Target Key Needs

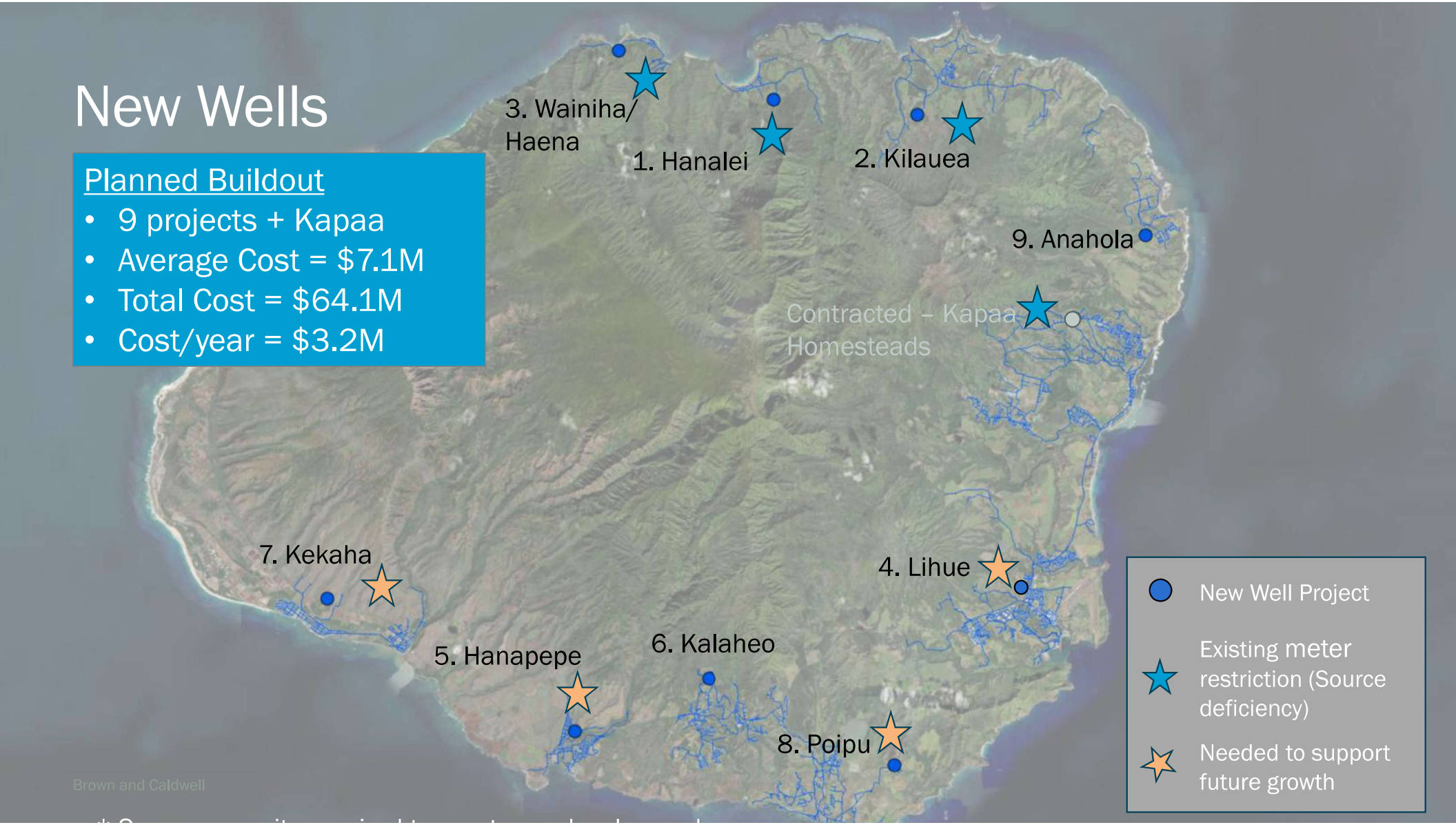
Example: Fire Flow Deficiencies



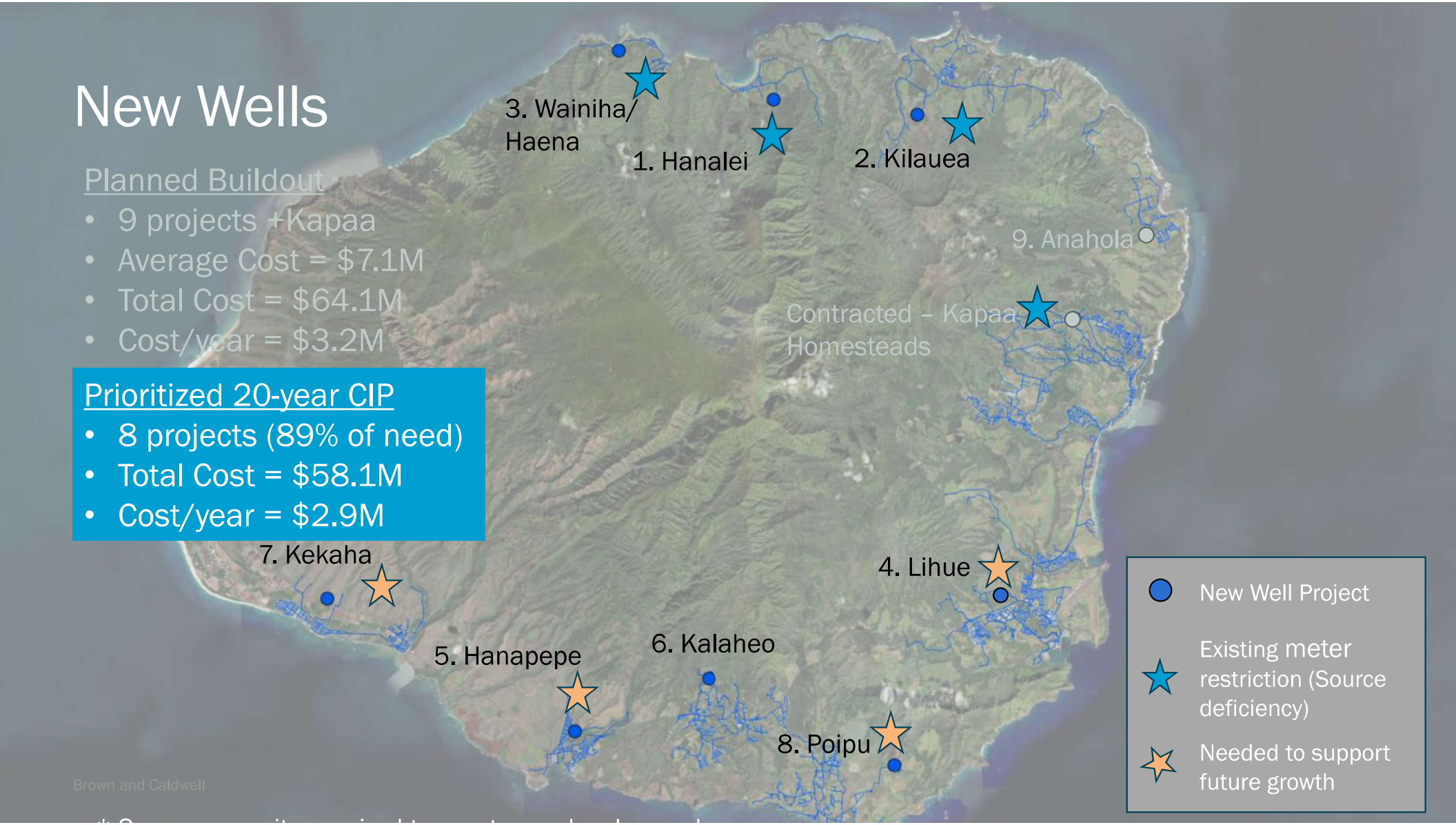
New Wells

Planned Buildout

- 9 projects + Kapaa
- Average Cost = $7.1M
- Total Cost = $64.1M
- Cost/year = $3.2M



New Wells



Planned Buildout

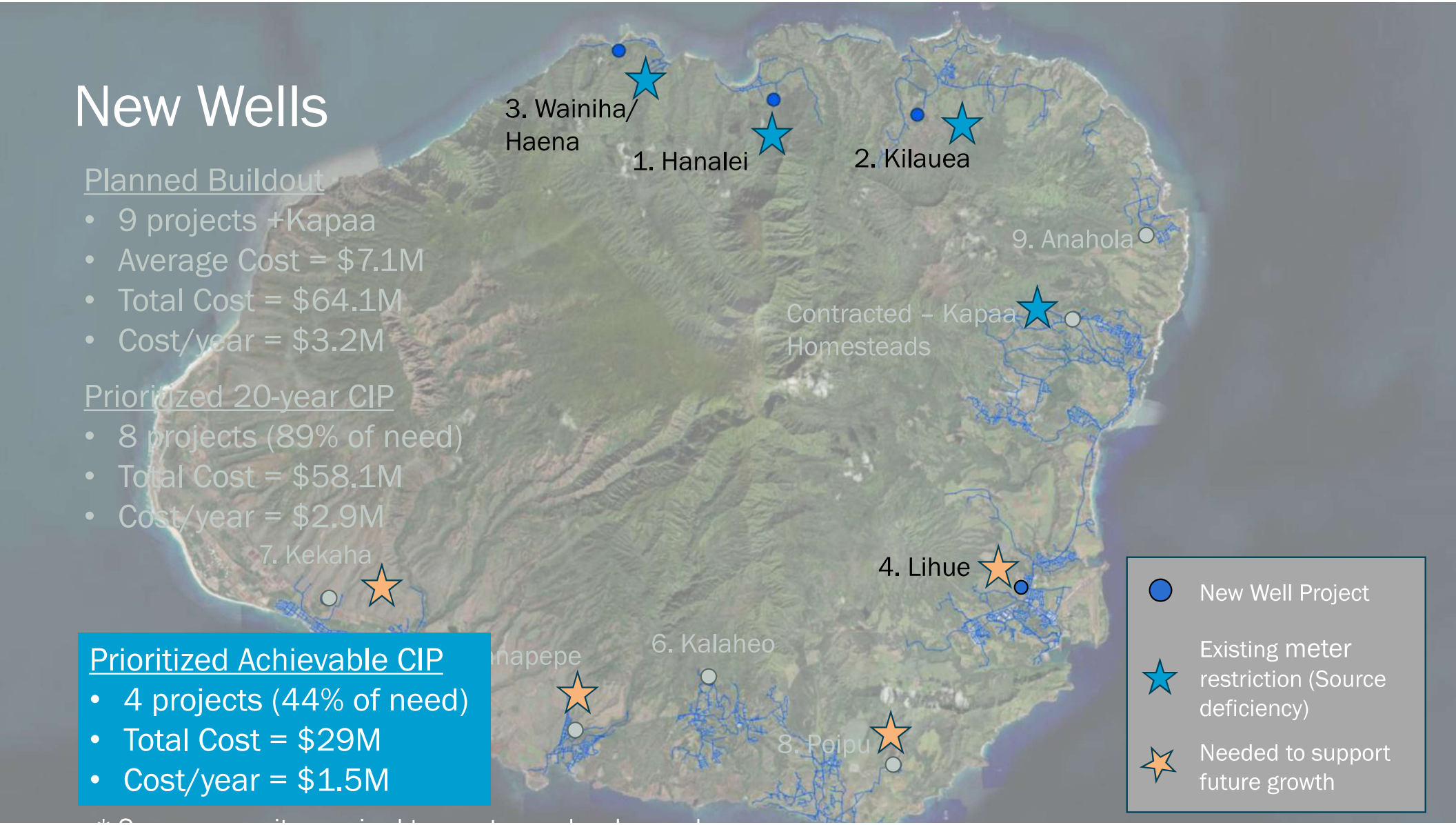
- 9 projects +Kapaa
- Average Cost = $7.1M
- Total Cost = $64.1M
- Cost/year = $3.2M

Prioritized 20-year CIP

- 8 projects (89% of need)
- Total Cost = $58.1M
- Cost/year = $2.9M

Brown and Caldwell

New Wells



Planned Buildout
- 9 projects +Kapaa
- Average Cost = $7.1M
- Total Cost = $64.1M
- Cost/year = $3.2M

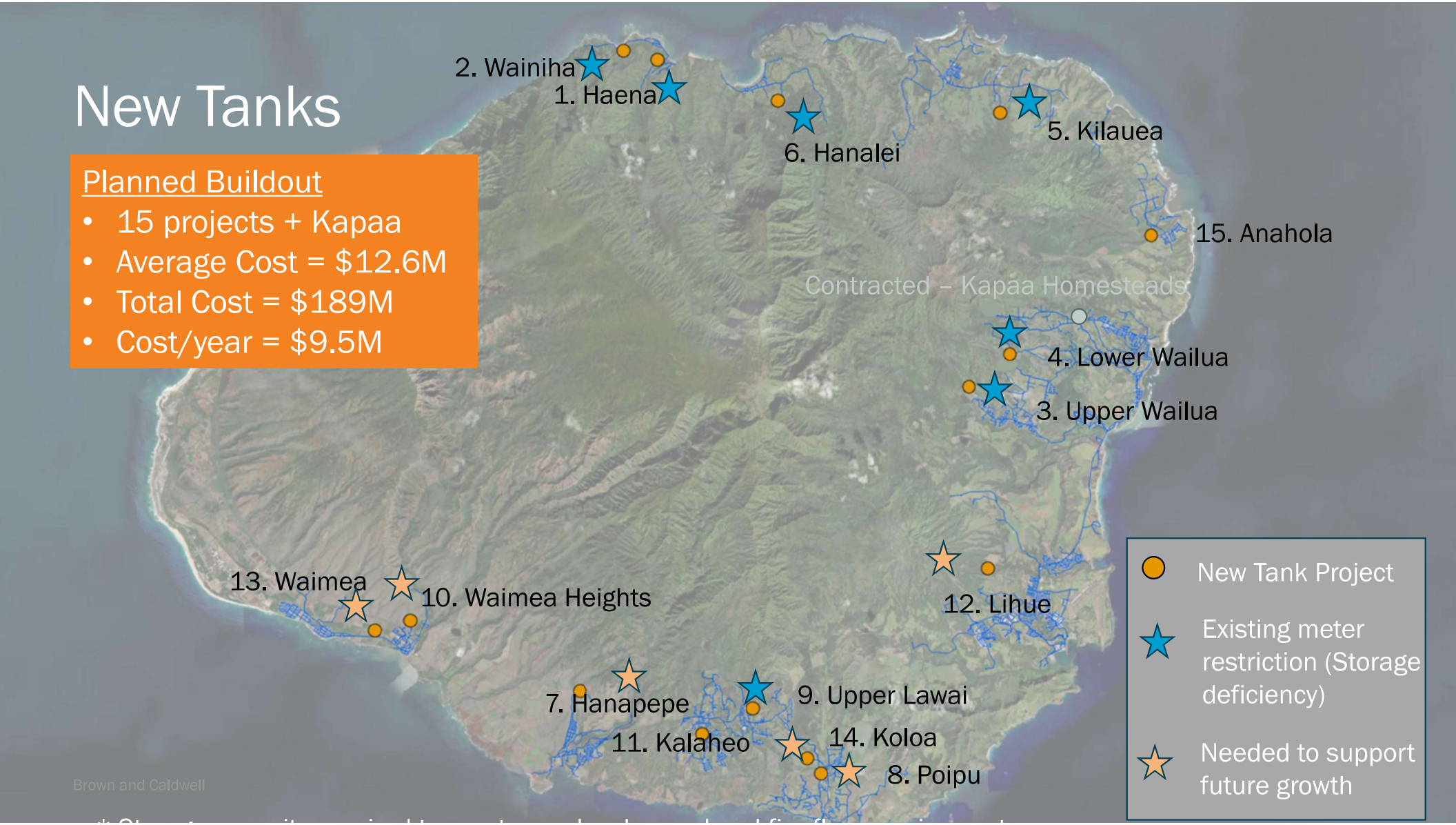
Prioritized 20-year CIP
- 8 projects (89% of need)
- Total Cost = $58.1M
- Cost/year = $2.9M

Prioritized Achievable CIP
- 4 projects (44% of need)
- Total Cost = $29M
- Cost/year = $1.5M

New Tanks

Planned Buildout

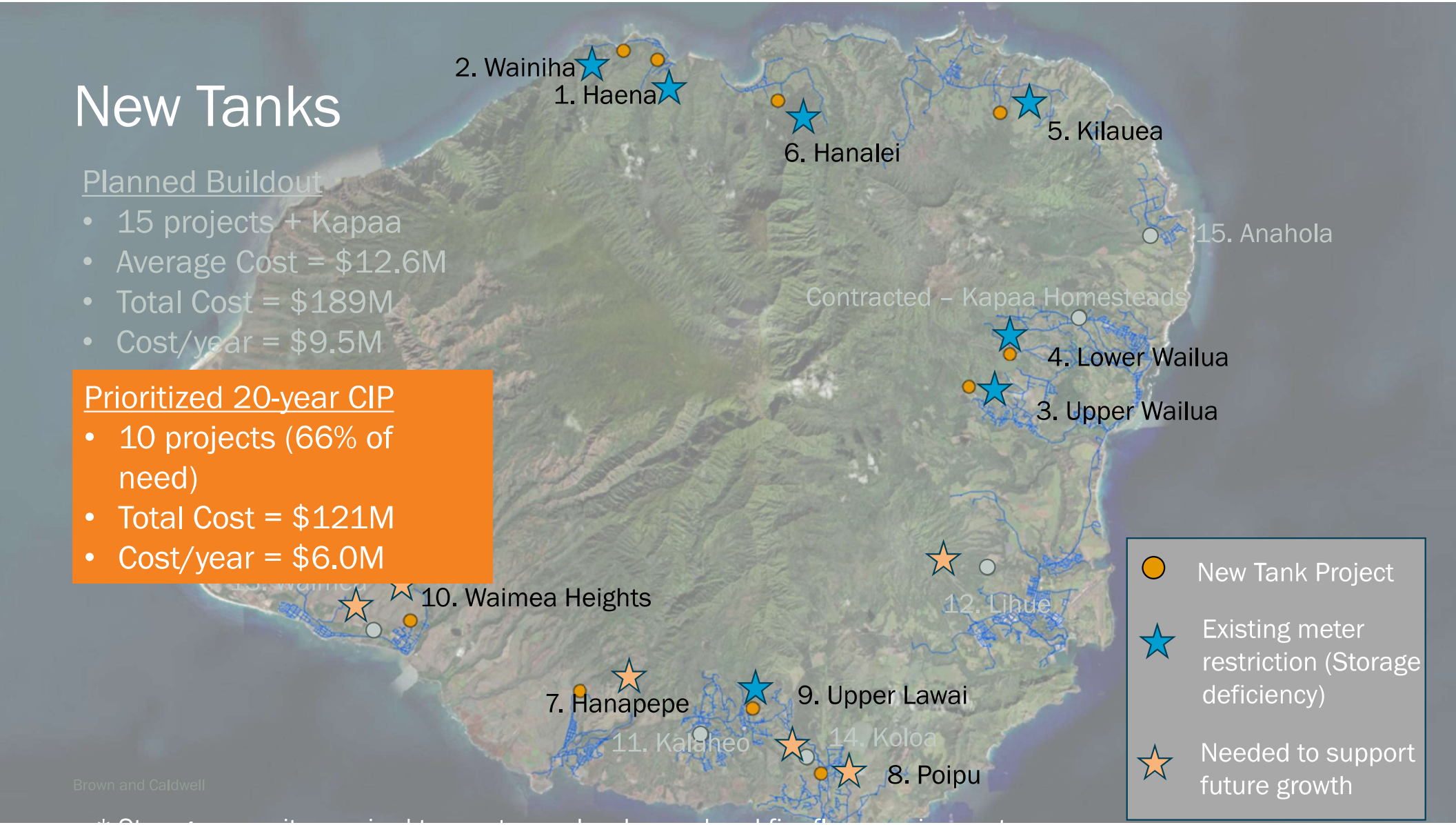
- 15 projects + Kapaa
- Average Cost = $12.6M
- Total Cost = $189M
- Cost/year = $9.5M



New Tanks

Planned Buildout
- 15 projects + Kapaa
- Average Cost = $12.6M
- Total Cost = $189M
- Cost/year = $9.5M

Prioritized 20-year CIP
- 10 projects (66% of need)
- Total Cost = $121M
- Cost/year = $6.0M



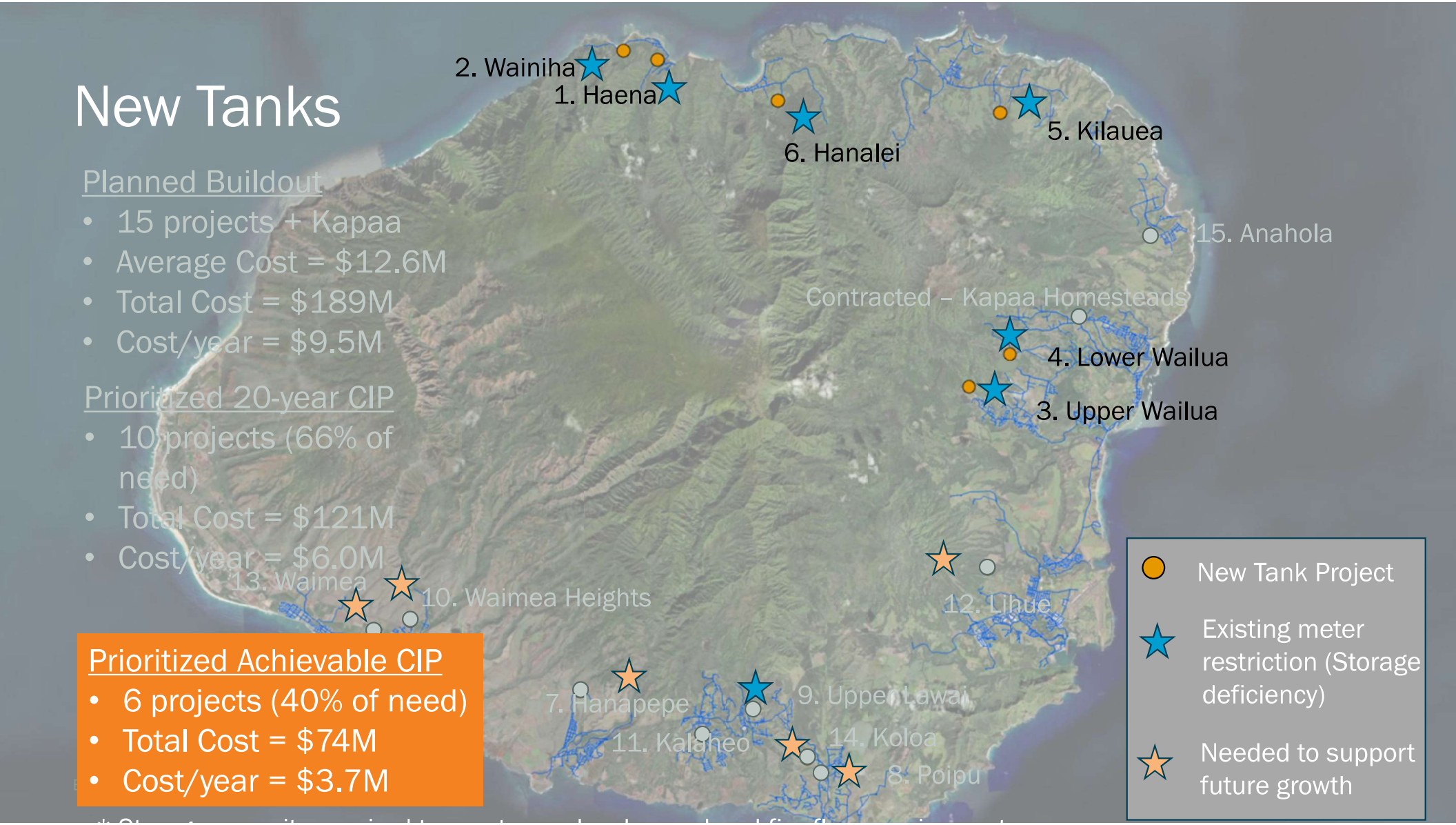
Brown and Caldwell

New Tanks

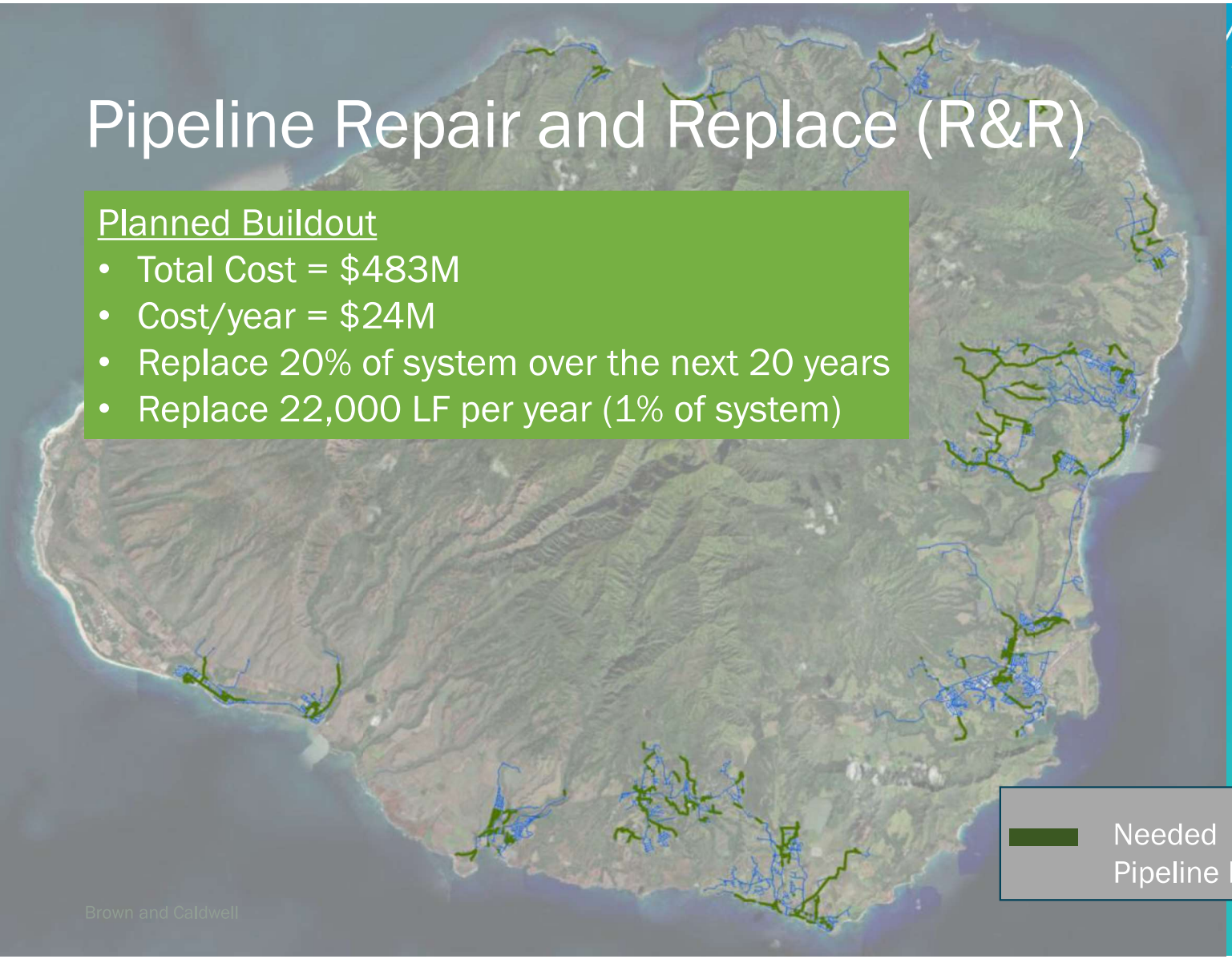
Planned Buildout
- 15 projects + Kapaa
- Average Cost = $12.6M
- Total Cost = $189M
- Cost/year = $9.5M

Prioritized 20-year CIP
- 10 projects (66% of need)
- Total Cost = $121M
- Cost/year = $6.0M

Prioritized Achievable CIP
- 6 projects (40% of need)
- Total Cost = $74M
- Cost/year = $3.7M



Pipeline Repair and Replace (R&R)



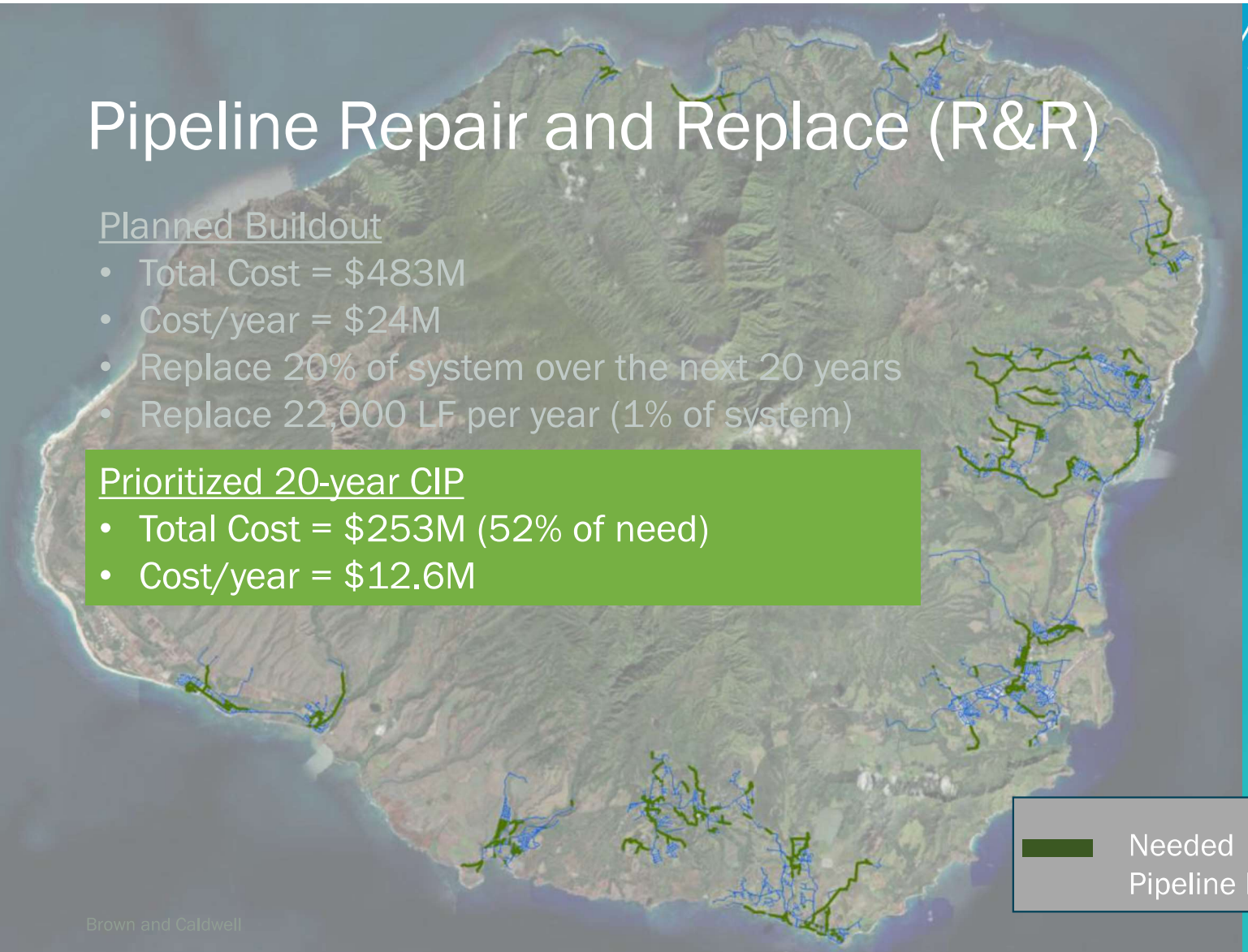
Planned Buildout

- Total Cost = $483M
- Cost/year = $24M
- Replace 20% of system over the next 20 years
- Replace 22,000 LF per year (1% of system)

Pipeline Age and Capacity:

- Oldest pipes are from the 1920s
- 15% of system built before 1960
- 7% of pipes are undersized to provide fire flow

Pipeline Repair and Replace (R&R)



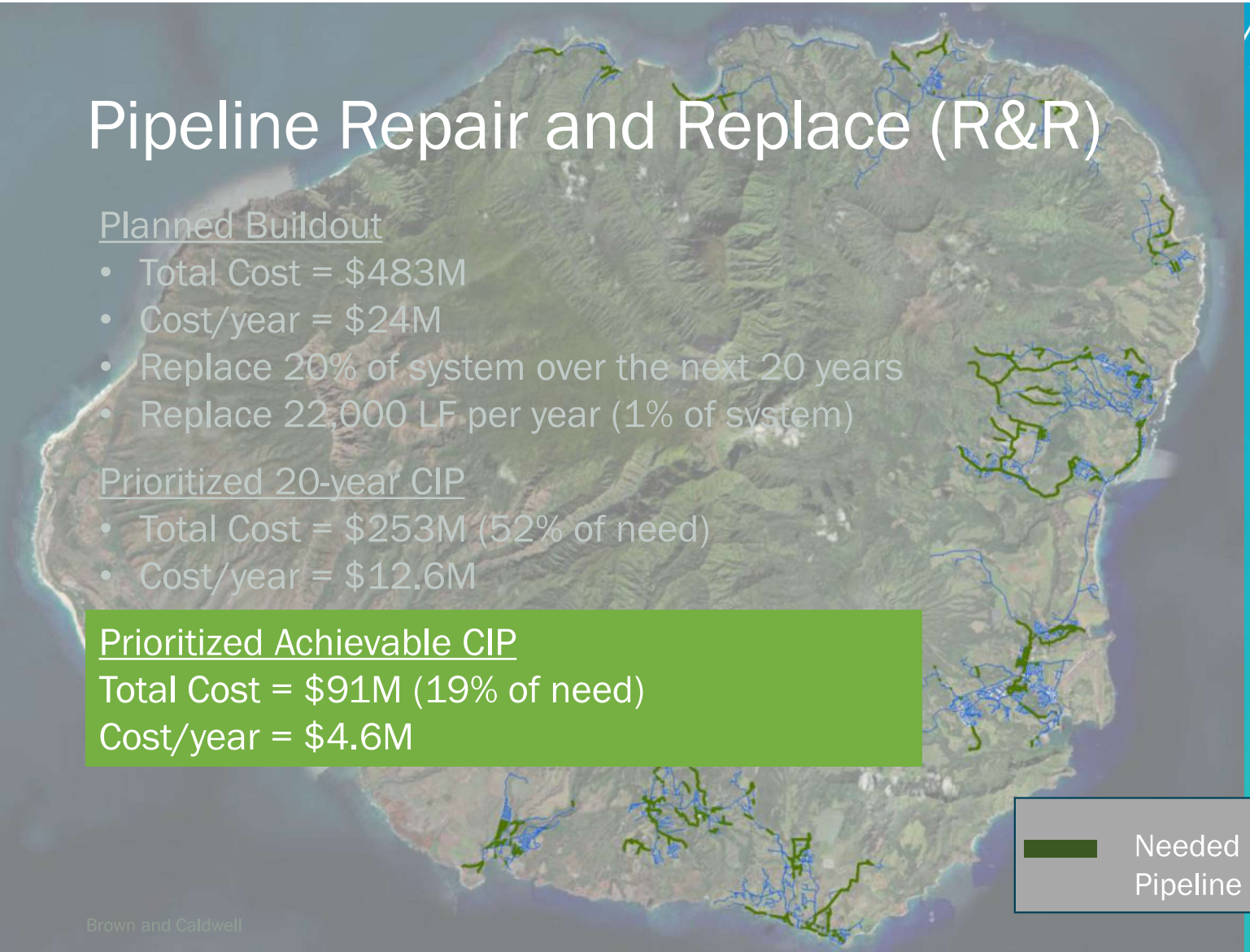
Planned Buildout
- Total Cost = $483M
- Cost/year = $24M
- Replace 20% of system over the next 20 years
- Replace 22,000 LF per year (1% of system)

Prioritized 20-year CIP
- Total Cost = $253M (52% of need)
- Cost/year = $12.6M

Pipeline Age and Capacity:

- Oldest pipes are from the 1920s
- 15% of system built before 1960
- 7% of pipes are undersized to provide fire flow

Pipeline Repair and Replace (R&R)



Planned Buildout
- Total Cost = $483M
- Cost/year = $24M
- Replace 20% of system over the next 20 years
- Replace 22,000 LF per year (1% of system)

Prioritized 20-year CIP
- Total Cost = $253M (52% of need)
- Cost/year = $12.6M

Prioritized Achievable CIP
Total Cost = $91M (19% of need)
Cost/year = $4.6M

Pipeline Age and Capacity:

- Oldest pipes are from the 1920s
- 15% of system built before 1960
- 7% of pipes are undersized to provide fire flow

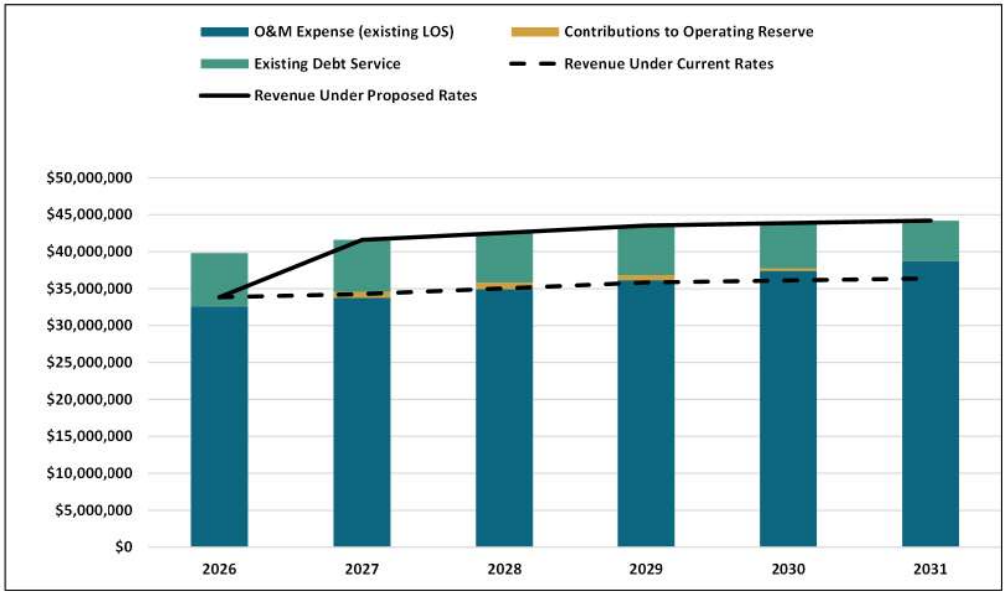
Water Rate Study
Revenue Requirements Results

Water Rates Summary of 3 Water Rate Scenarios

- Baseline Needed to Close Operations and Debt Service Gap
- Time Period is 10 Years
- 3 Scenarios Developed to Achieve Financial Targets
- Scenarios Built on Achieving Capital Scenarios
- Comparison of Typical Bill Impacts

Baseline Operations Analysis FY 2027- FY 2031

- Incorporates recommended operating policy targets
- FY 2026 operating budget serves as basis for revenue and expense projections
- Operating Revenues
  - Annual customer growth: 0.80% per historical review
  - ~83% progress on improved meter reads; complete by FYE 2028
  - Interest earnings on cash balances: 3.0%
- Operating Expense
  - Budgeted vacant positions (~20%) assumed to be filled
  - Annual cost escalation: 3.5%
- Debt service per existing Bonds and SRF loans



Result = minimum 23.5% rate adjustment needed in FY 2027

Rate Scenario Results FY 2027- FY 2036

CAPITAL SCENARIOS (Budget + FY 2027- FY 2036)	SCENARIO 1 ($16.5M/YR)	SCENARIO 2 ($16.5M-$34M/YR)	SCENARIO 3 ($34M/YR)
Annual % Increases (FYs 2027-2036)			
FY 2027	25.0%	25.0%	30.0%
FY 2028	25.0%	25.0%	30.0%
FY 2029	6.5%	12.0%	15.0%
FY 2030	6.5%	12.0%	15.0%
FY 2031	6.5%	12.0%	15.0%
FY 2032	0.0%	3.5%	3.5%
FY 2033	0.0%	3.5%	3.5%
FY 2034	0.0%	3.5%	3.5%
FY 2035	0.0%	3.5%	3.5%
FY 2036	0.0%	3.5%	3.5%
FYs 2027-2036 Cumulative Rate Impacts	89%	161%	205%

Rate Scenario Results FY 2027- FY 2036

CAPITAL SCENARIOS (Budget + FY 2027- FY 2036)	SCENARIO 1 ($16.5M/YR)	SCENARIO 2 ($16.5M-$34M/YR)	SCENARIO 3 ($34M/YR)
Total Capital Spending (FY 2026-2031; by FY 2036)	$80.0M/$181.5M	$96.3M/$277.6M	$107.2M/$372.4M
Average Annual Capital Spending (Budget + 5-Yr)	$13.3M	$16.0M	$17.9M
Average Annual Capital Spending (Budget + 10-Yr)	$16.5M	$25.2M	$33.9M
Staff Augmentation	$500k/Yr	$1M/Yr	$2M/Yr
10 Yr Capital Funding Plan (Budget + FY 2027-FY 2036)			
Cash-Funded	91%	94%	96%
Debt-Financed	7%	5%	3%
State Appropriations	2%	1%	1%
Total	100%	100%	100%
Projected SRF Loans:			
FY 2027	$3.0M	$3.0M	$3.0M
FY 2029	$5.0M	$5.0M	$5.0M
FY 2030	$5.0M	$5.0M	$5.0M
Total	$13.0M	$13.0M	$13.0M
Additional Annual Debt Service thru FY 2036	$1.60 M	$1.60 M	$1.60 M
CAPITAL FINANCIAL POLICY TARGETS			
Debt Service Coverage	>= 1.5 times annual debt service		
Projected Range FY 2027 to FY 2036	1.1 to 9.0	1.0 to 19.1	1.1 to 24.9
Achieved 1.5 Debt Service Coverage	2028	2028	2028
Maximum Debt as % of Net Assets	<=35% to 50% Debt		
Projected (FY 2027)	21%	21%	21%
Operating Cash Reserve (160 Days)	160 Days of O&M + Debt Service		
Projected (as of FY 2027)	75%	75%	75%
Achieved (as of FY 2029)	100%	100%	100%
Annual Ending Capital Reserve Balance	=> Average Annual Capital Expenditures		
Target Achievement (as of FY 2027/FY 2031)	15%/100%	11%/100%	6%/100%

Scenario 1 –

- 25%, 25%, 6.5%, 6.5%, 6.5%,
- 0% (last 5 yrs)

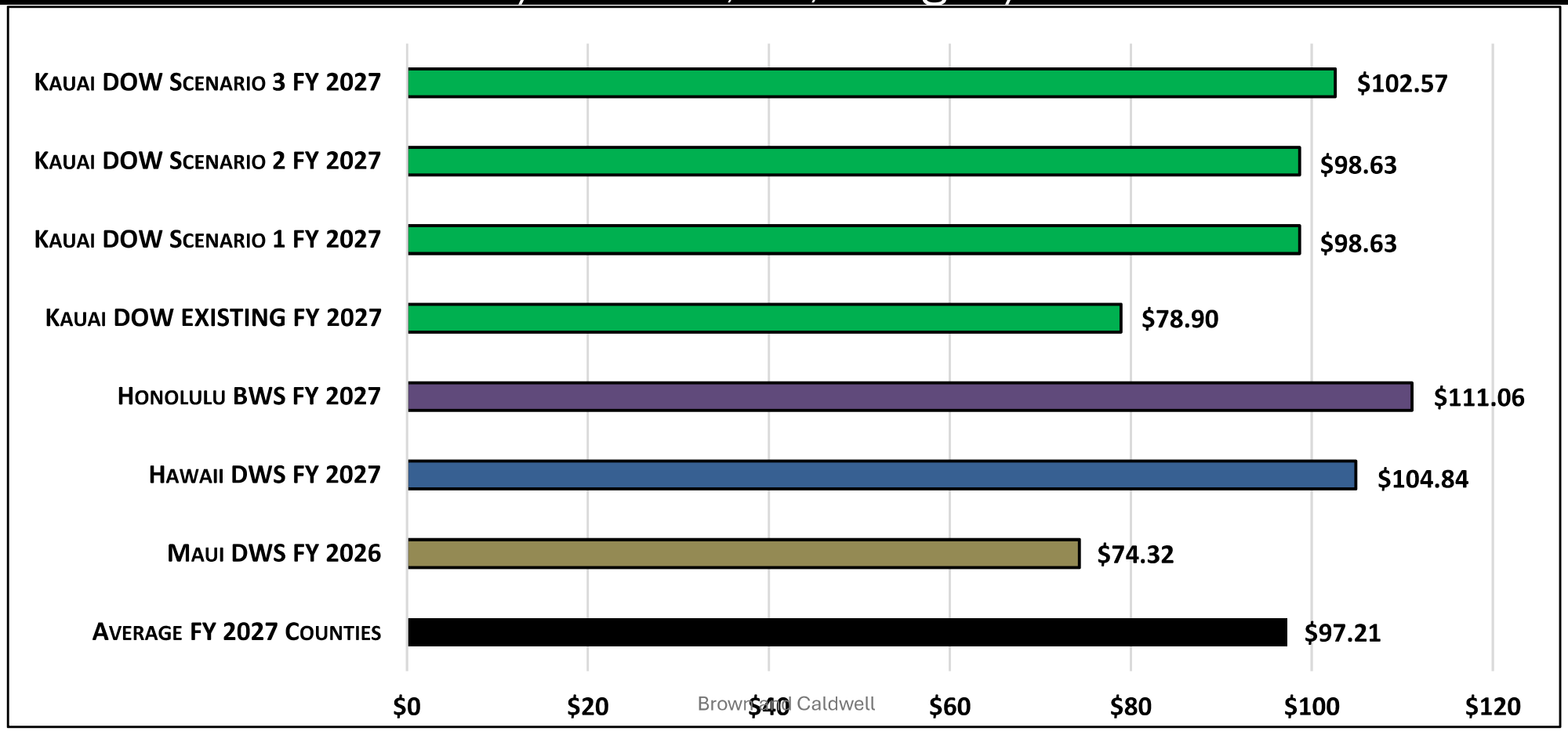
Scenario 2 –

- 25%, 25%, 12%, 12%, 12%,
- 3.5% (last 5 yrs)

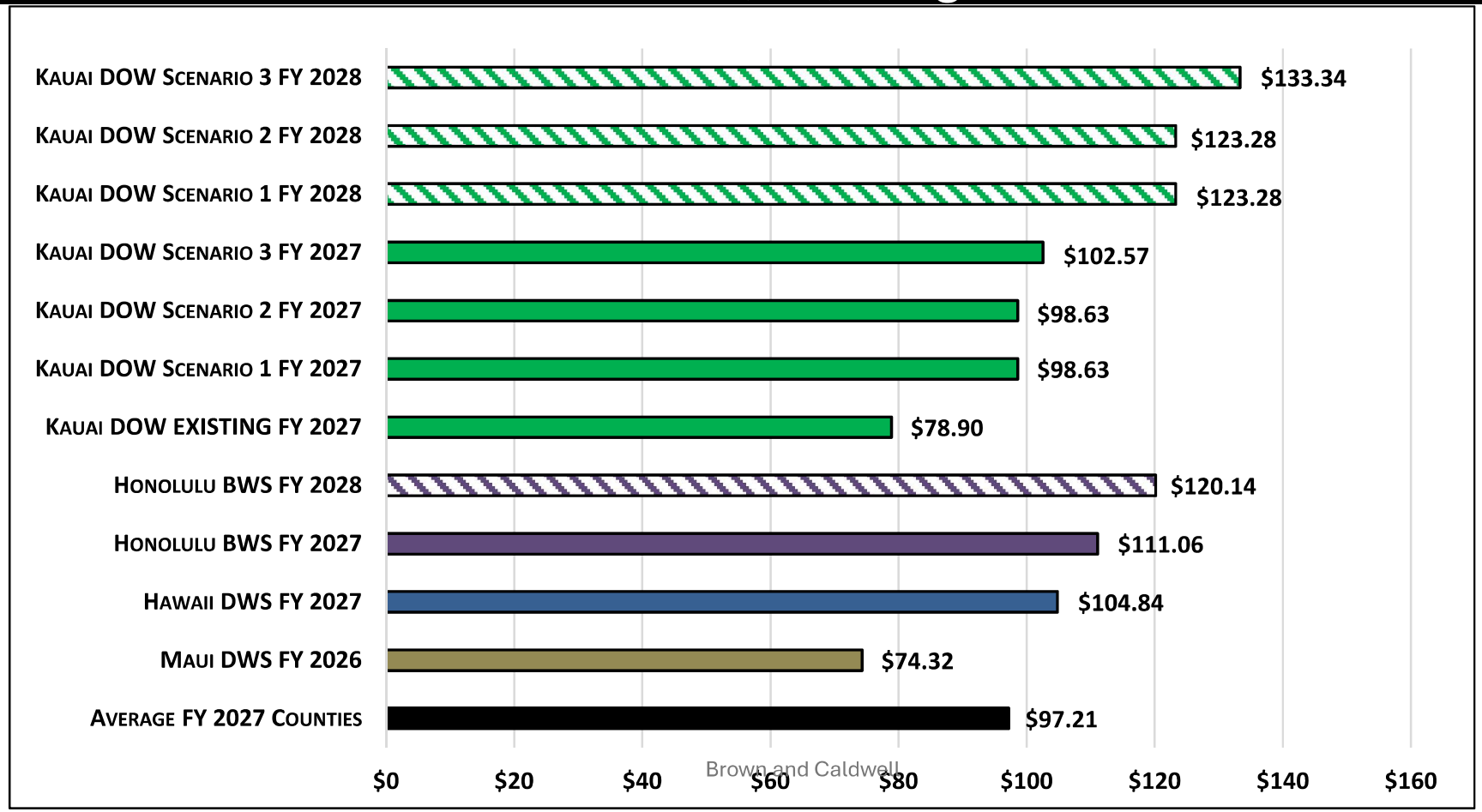
Scenario 3 –

- 30%, 30%, 15%, 15%, 15%,
- 3.5% (last 5 yrs)

Monthly Bill Comparison:
SF 5/8" meter; 12,000 gals/month



Monthly Bill Comparison:
SF 5/8" meter; 12,000 gals/month



Rate Scenarios and CIP

CIP Summary

Project Type	Planned Buildout		Prioritized 20-year		Prioritized Achievable	
	No. of Projects	Annual Cost	No. of Projects	Annual Cost	No. of Projects	Annual Cost
New Well	9	$3.2M	8	2.9M	4	$1.5M
New Tank	15	$9.5M	10	$6.0M	6	$3.7M
Tank R&R	16	$4.1M	12	$2.6M	8	$1.2M
Well R&R	26	$8.0M	21	$4.2M	9	$2.0M
BPS R&R	7	$1.1M	6	$1.0M	3	$0.5M
Pipeline R&R	70	$24.1M	35	$12.6M	11	$4.6M
New Pipeline	8	$2.6M	4	$1.7M	1	$0.5M
Site Access and Operational	10	$2.1M	7	$0.6M	7	$0.6M
Other	12	$8.0M	6	$2.4M	5	$2.1M
Total	**173**	**$63M**	**109**	**$34M**	**54**	**$16.5M**

Cost of one new tank (in $2025) ~ $13,000,000
Cost of one new well (in $2025) ~ $7,000,000

A Note on Inflation…

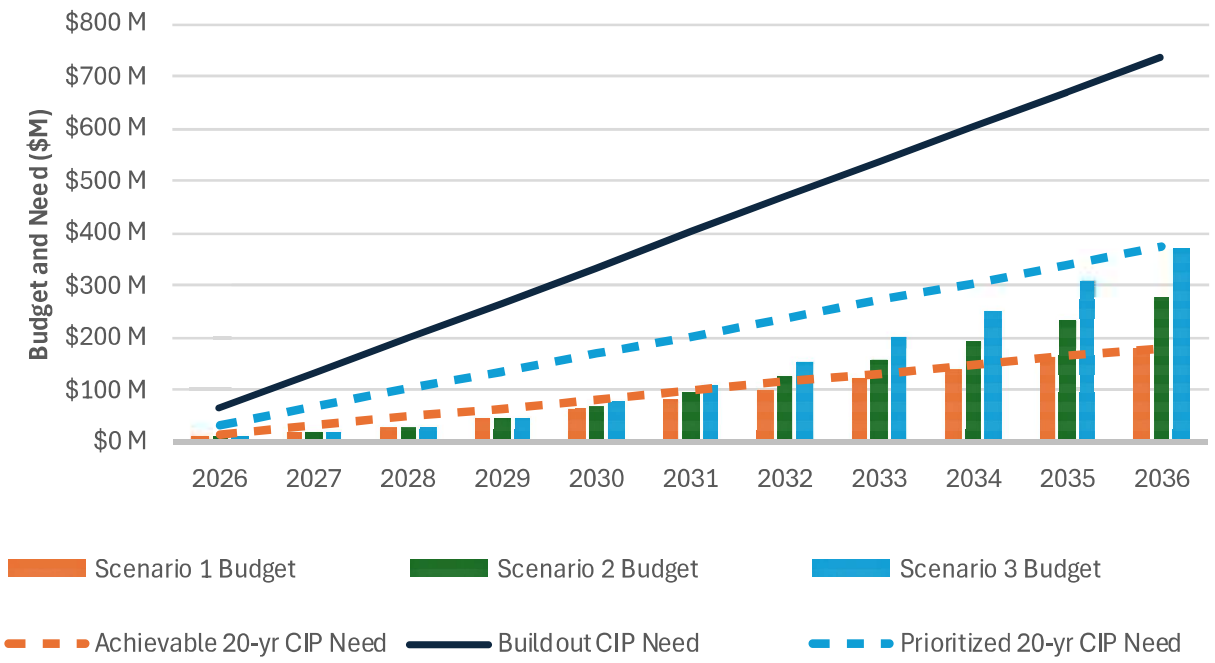
- The average inflation rate in Hawaii between 2000 and 2025 has been approximately 2.5% per year.
- This means a capital project with a budget of $1,000,000 in 2000 would cost nearly $2,000,000 in today's market.
- This surge is attributed to various factors, including the state's remote location, the high cost of imported materials, scarcity of labor, and evolving regulations.
- Additionally, natural disasters such as hurricanes and flooding have necessitated extensive rebuilding efforts.
- All of these factors are amplified on Kauai.

"The price to construct a Department of Water tank on Kauai has increased by a factor of 3 between 2008 and 2023."

Rate Scenarios and CIP

- The **"Prioritized Achievable" CIP** ($16.5 M) corresponds to Rate Scenario 1
- The **"Prioritized 20-year" CIP** ($34 M) corresponds to Rate Scenario 3
- No Rate Scenario will fund the **"Planned Buildout" CIP**

Funds Available for Each Rate Scenario and CIP Need (Cumulative)



- In Scenario 1, sufficient funds become available to meet the annual Achievable **Prioritized 20-yr CIP** need by 2036.
- In Scenario 3, sufficient funds become available to meet the annual **Prioritized 20-yr CIP** need by 2036.
- The gap between the **Planned Buildout CIP** needs and funds available widens over time in all Rate Scenarios.

Annual 5- and 10-year CIP Funds Generated by Rate Scenarios (Average)

The three Rate Scenarios provide for similar CIP investment in the first five years ($13 M to $18 M).

Scenario 3 correlates with the 20-year Prioritized CIP, taking ten years to ramp up to an average of $34 M/yr.

FRC Results

Facilities Reserve Charge (FRC) Summary from April 2025 Board Workshop

- Definition and Purpose
- Key Steps for Calculation
- Key Capital Assumptions
- FRC Results
- County Comparison
- Alignment with Rates

FRC Overview – Definition and Purpose

- A FRC is a one-time charge imposed on new water service connections and represents a proportionate share of the cost of facilities necessary to provide water system capacity for new development.
- The AWWA "Incremental Approach" methodology was used to calculate the DOW FRC
  - Incremental cost of additional system capacity (utility-funded portion) needed to serve growth
    - Growth-related cost divided by growth-related capacity added
    - Most appropriate when upsizing and/or new facilities are needed to accommodate growth
    - DOW has existing capacity limits in majority of water systems
    - FRC calculated by water system components of Source, Storage, and Transmission and summed for total FRC
- The calculated FRC is the maximum allowable charge. Board can adopt a FRC lower than the calculated charge but not higher than the calculated charge
  - Impact of reduced FRC collections from charging lower than the max FRC could result in deferred projects and/or use of rates to fund the shortfall
- FRC revenues used to directly fund growth-related CIP projects

FRC Overview - Key Steps for the FRC Calculation

1. Develop a prioritized and achievable 20-year CIP
2. Identify the growth-related (capacity-increasing) projects from the prioritized 20-year CIP for inclusion in the FRC
3. Identify assumptions by CIP project for potential grant funding (assume $0 grant funding)
4. Allocate total demand by project between existing and future growth needs
5. Determine cost basis by project for growth (% growth demand x project cost)
6. Derive unit cost of growth-related capacity ($/gpd)
7. Convert unit cost to equivalent residential unit (ERU) charge basis (max-day demand for 5/8" meter)
8. Apply ERU to FRC schedule (currently based on meter size)
9. Calculate applicable credits:
   - Cash balance in FRC Fund available for new growth-related projects (all cash committed to prior projects)

FRC Overview - Key Capital Assumptions

Total prioritized 20-year CIP of $679.5M; average annual expenditure of $34M

1. Total growth share for FRC of $145.2M (~21% of total)
   - Average annual expenditure of $7.3M
2. Average annual expenditure of $34M/year needs to be considered from a financial and execution perspective
   - Prioritizing the annual capital spend to a lower level, e.g. $16.5M, did not reduce the FRC due to the $ to capacity relationship
3. Board considerations for final FRC recommendation:
   - Analysis results in $28k per 5/8" meter as the maximum allowable amount (under existing rate structure)
   - Board can adopt lower FRC; this is a policy decision
   - Consider two rate structure changes for single-family 5/8" meter to FRC based on 1) livable area in square feet or 2) fixture units (FXTUs)

FRC Results

- Updated FRC analysis per DOW direction based on 20-Year Prioritized growth-related CIP, associated costs, and capacity demand shared between existing and future deficiency/needs
- Derived FRC
  - Maximum allowable FRC of $28.8k compared to existing $14.1k FRC

FRC Calculation per 5/8-inch Meter

	Proposed FRC Based on Meter Size			Compared to Existing FRC		
Component	Unit Cost per max-day gpd	Per 5/8-Inch Meter	Percentage of Total	Unit Cost per max-day gpd	Per 5/8-Inch Meter	Percentage of Total
Source	$14.50	$7,251	25%	$6.06	$3,030	21%
Storage	$38.49	$19,244	67%	$11.55	$5,773	41%
Transmission	$4.57	$2,284	8%	$10.62	$5,312	38%
Total	**$57.56**	**$28,779**	**100%**	**$28.23**	**$14,115**	**100%**

Table below assumes current rate structure based on meter size

FRC Calculation by Meter Size			
Water Meter Size	AWWA Maximum GPM (M22 Manual)	Equivalents Relative to 5/8-Inch meter	Updated FRC
5/8-Inch	20	1.00	$ 28,779
3/4-Inch	30	1.50	$ 43,168
1-Inch	50	2.50	$ 71,947
1 1/2-Inch	100	5.00	$ 143,894
2-Inch	160	8.00	$ 230,230
3-Inch	320	16.00	$ 460,461
4-Inch	500	25.00	$ 719,470
6-Inch	1000	50.00	$ 1,438,940
8-Inch	1600	80.00	$ 2,302,304

Option 1 FRC Rate Structure: Based on Single-Family Residence (SFR) Livable Area

- Consider basing 5/8”SFR meter FRC to focus on SFR livable area up to 3,000 SF
- Assume 2,000 SF of a SFR would be the 5/8" equivalent rate of $28,779 or $14.39/SF.
- Assume 3,000 SF of a SFR would be the 3/4" equivalent rate of $43,168 or $14.39/SF.
- Revise 5/8" meter FRC rule to charge SFR based on 1" or appropriate meter size for homes over 3,000 SF
- Non-single family residential customers continue under meter size approach

– Example FRC Amount for Suggested Livable Area:

ARU/Guest House (800 SF) - $11,512

SFR (1,000 SF) - $14,389

SFR (1,500 SF) - $21,584

SFR (2,000 SF) - $28,779

SFR (3,000 SF) - $43,168

Examples for Phased-in FRC for Option 1

- Assume 5-year phase in period to reach the maximum allowable FRC in FY 2030

FY 2025 **7/1/2024**	FY 2026 **7/1/2025**	FY 2027 **7/1/2026**	FY 2028 **7/1/2027**	FY 2029 **7/1/2028**	FY 2030 **7/1/2029**
$14,115	$16,276	$18,769	$21,643	$24,957	$28,779

FRC based on $14.39/SF at Year 5

FRC for Year 1 is $7.06/SF

- Using Option 1 – 5/8" Meter and Livable Area FRC Structure over 5 years

Per SQ ft Basis

Area (SF)	Existing	YR 1	YR 2	YR 3	YR 4	YR 5
800	$ 14,115	$6,511	$7,508	$8,657	$9,983	$11,512
1,000	$ 14,115	$8,138	$9,384	$10,821	$12,479	$14,389
1,500	$ 14,115	$12,207	$14,077	$16,232	$18,718	$21,584
2,000	$ 14,115	$16,276	$18,769	$21,643	$24,957	$28,779
3,000	$ 14,115	$24,415	$28,153	$32,464	$37,436	$43,168

Option 2 FRC Rate Structure: Based on SFR Fixture Units (FXTU)

- Revise 5/8”meter FRC policy to charge SFR $959.29/FXTU based on 30 FXTUs per SFR
- Non-single family residential customers continue on meter size approach

- Example FRC Amount for FXTU Based on Approximate Livable Area

  ARU/Guest House (800 SF, 17 FXTU) - $16,307
  SFR (1,000-1,500 SF, 22 FXTU) - $21,104
  SFR (1,501-2,000 SF, 26.6 FXTU) - $25,517
  SFR (2,001-2,500 SF, 36.6 FXTU) - $35,110
  SFR (2,501-3,000 SF, 37 FXTU) - $35,494

KDOW Existing FRC Compared to Rates for Other Hawaii Water Agencies

Meter Size	Kauai DOW (1)	Maui DWS (2)	Honolulu BWS (3)	Hawaii DWS (4)
5/8"	$ 14,115	$ 12,060	$ 5,745	$ 6,095
3/4"	$ 21,170	$ 18,884	$ 9,822	n/a
1"	$ 35,290	$ 33,356	$ 23,722	$ 15,237
1-1/2"	$ 70,580	$ 71,948	$ 70,425	$ 30,474
2"	$ 112,920	$ 125,012	$ 128,248	$ 48,759
3"	$ 225,840	$ 279,380	$ 356,946	$ 97,518
4"	$ 352,880	$ 496,460	$ 670,895	$ 152,372
6"	$ 705,750	$ 1,113,932	$ 1,538,239	$ 304,744
8"	$ 1,129,200	$ 1,977,428	$ 2,223,960	$ 487,591
10"	n/a	$ 3,089,360	n/a	$ 1,279,927
12"	n/a	$ 4,447,436	n/a	$ 1,615,146
Updated	2015	2017	1996	2021

(1) Existing FRC. Considered ranges up to $22,000 per 5/8" meter in 2012; at the time rate was $4,600 per 5/8".

(2) WSDF for a 5/8" meter was set at $6,060 between 2002-2013; raised to $12,060 in FY 2014; decreased to $6,030 in FY 2015 and increased again to $12,060 in FY 2017.

(3) Based on fixture units (FUs), e.g. 31 FUs for a 5/8" meter/avg is 20 FUs or $3,700.

(4) 5/8" value is for second and subsequent meters. First 5/8" meter is $1,319.

Alignment Between FRC and Water Rates

- **Growth assumptions**
  - Should be reasonably consistent between FRC and water rate study but can and often do vary
  - DOW FRC growth projections derived to ensure adequate facilities and associated capacities are put in place to serve potential future growth in all areas of the water system (based on WSIP)
    - For this FRC analysis growth projections were developed in close coordination with DOW and based on a combination of the County's General Plan and more recent proposed development information (estimate of 3.5% system-wide)
  - Rate study growth projections should be more conservatively set based on growth that is likely to connect and generate annual rate revenue within the planning period (estimate of <1% based 5-year historical average growth)

- **Capital assumptions**
  - FRC analyzes total growth needs over longer horizon (20 years); doesn't matter if costs are identified for Year 1 or Year 20 last year over the horizon.
  - Rate study analyzes total annual funding needs (existing + growth) over a shorter horizon (10 years)

FRC and Water Rates

Alignment Between FRC and Water Rates

- Both FRC and water rates analyses incorporate consideration of other funding sources (conclusion - assumed $0 other funding for the FRC analysis):
  - Developer contributions
  - Grants
  - State grants and loans
  - Federal grants and loans
- Water rates pay for:
  - All non-growth-related CIP costs (in-kind, existing deficiencies) net of grant funding
  - Funding growth-related projects net of available FRC balance, annual FRC collections and grant funding
    - All capital project costs need to be funded by time of construction
    - FRC collections occur over long period of time
    - Due to timing issues, rates pay for some level of growth projects in the short term
  - All debt service obligations (per Harris policy recommendation)
- FRC pays for:
  - A proportionate share of the cost of facilities necessary to provide water system capacity for new development; if FRC is lower than allowed, rates will supplement growth related capital.

Preview of January 2026 Board Action

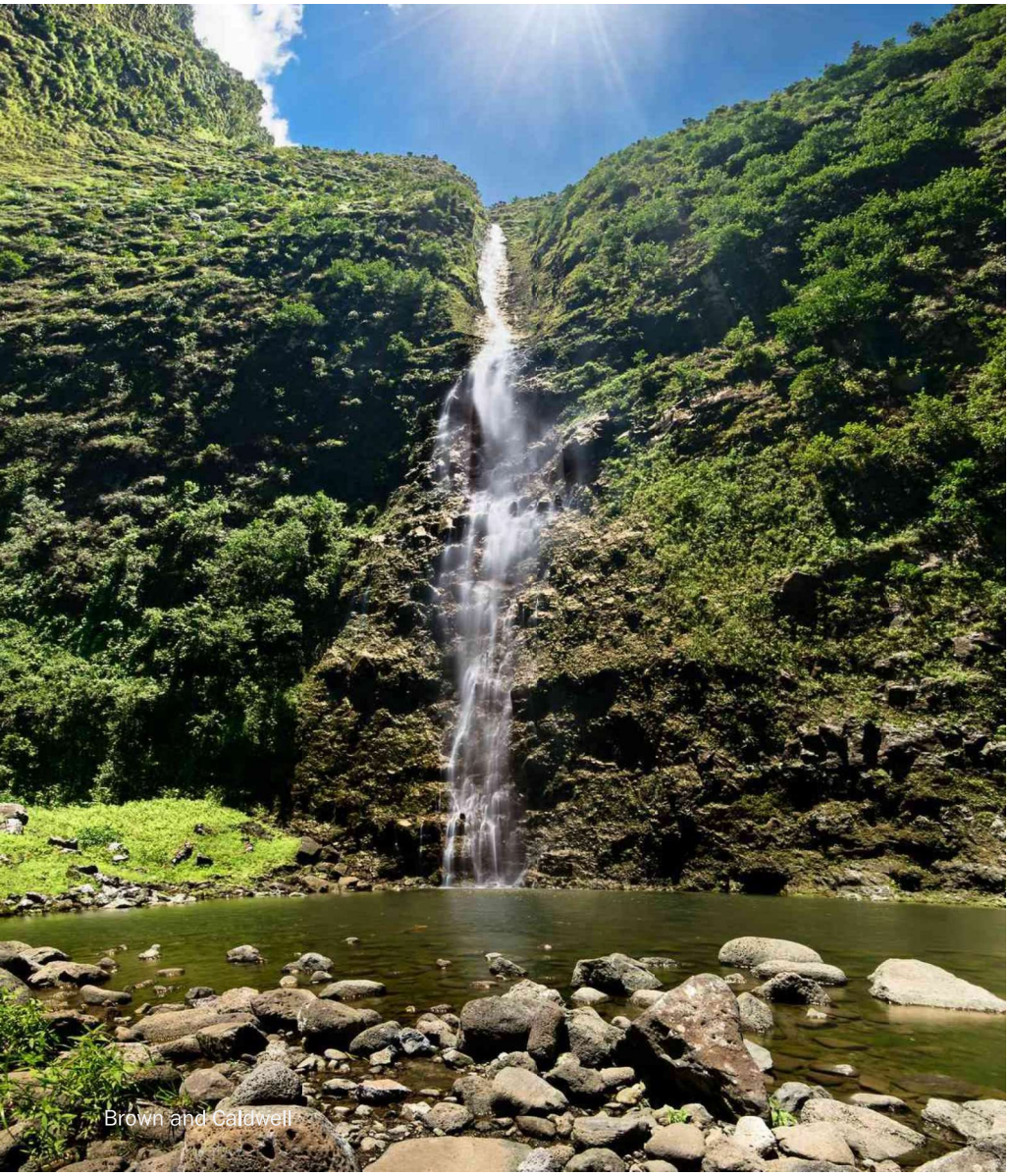
1. Approve one rate scenario for 5-yr time period FYs 2027-2031 to be presented to the public:
   a) Scenario 1: 25%, 25%, 6.5%, 6.5%, 6.5%
   b) Scenario 2: 25%, 25%, 12%, 12%, 12%
   c) Scenario 3: 30%, 30%, 15%, 15%, 15%

   Consider annual CPI adjustment rule subsequent to year 5
2. Approve FRC changes to be presented to the public:

   Increase FRC up to the maximum of $28,779 over a 5 year phase in period and (pick a, b or c below)
   a) Continue with existing meter size rate structure with 1 adjustment to charge by meter size for SFR
   b) Adopt livable area rate structure as the basis for setting FRC for SFR
   c) Adopt fixture units rate structure as the basis for setting FRC for SFR

Next Steps

- Present Recommended Rates and FRC proposal to Board in January 2026
- Board Approves Rates and FRC proposals to proceed with Public Outreach stage in January 2026
- Public Outreach in Q2 2026
- Implement New Rates and FRC by Q3 2026
- Start Cost-of-Service and Rate Design efforts in Q3 2026



Department of Water County of Kaua'i

Brown AND Caldwell

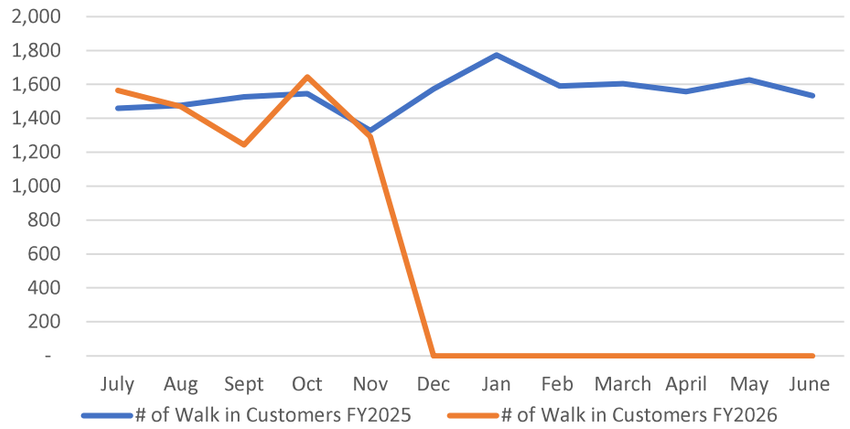
Harris & Associates

Thank you!

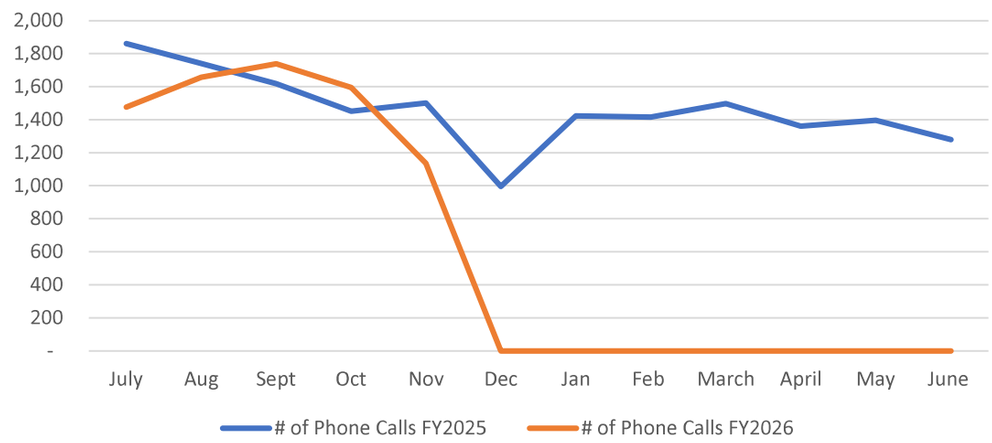
Staff Reports

FISCAL DIVISION DASHBOARD

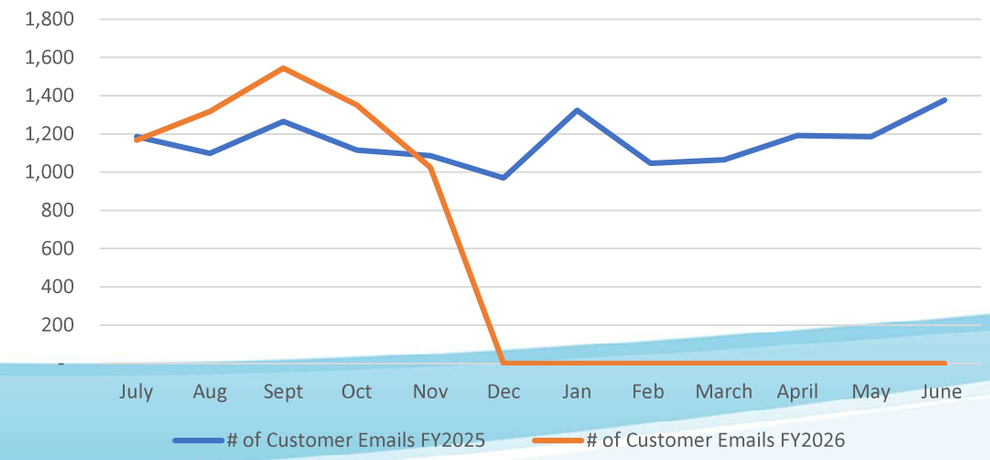
of Walk in Customers



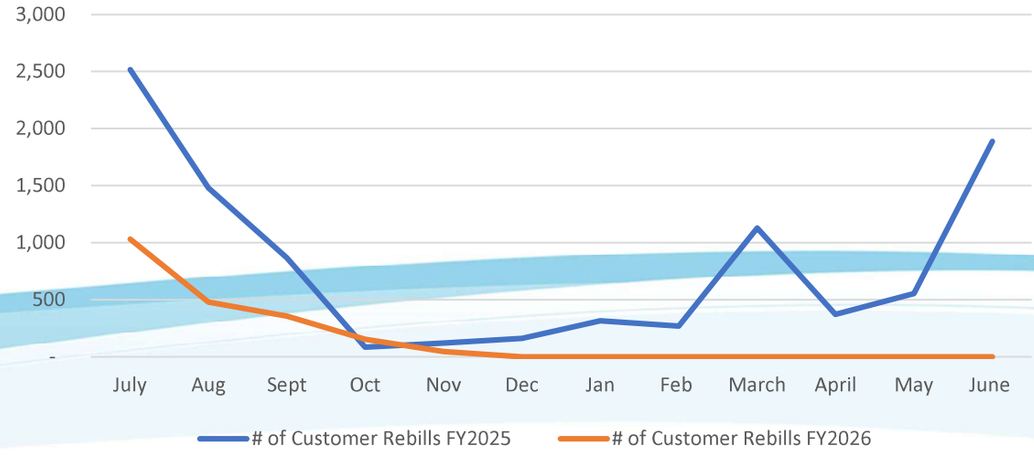
of Customer Service Calls



of Customer Emails and Correspondence

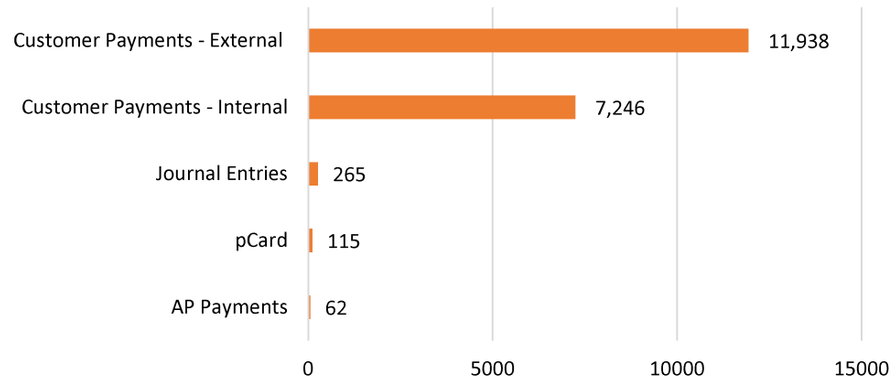


of Customer Rebills



FISCAL DIVISION DASHBOARD

Accounting Highlights

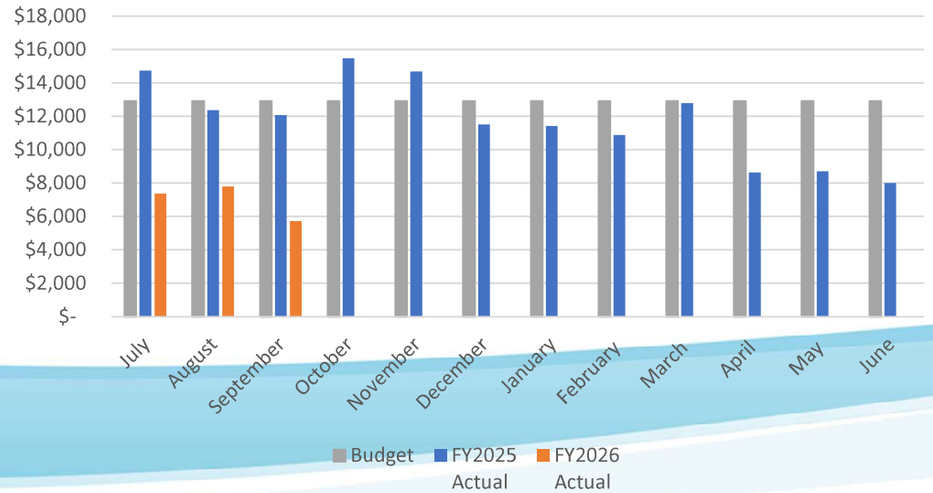


Monthly Transactional Volume processed and reconciled by the Accounting Team.

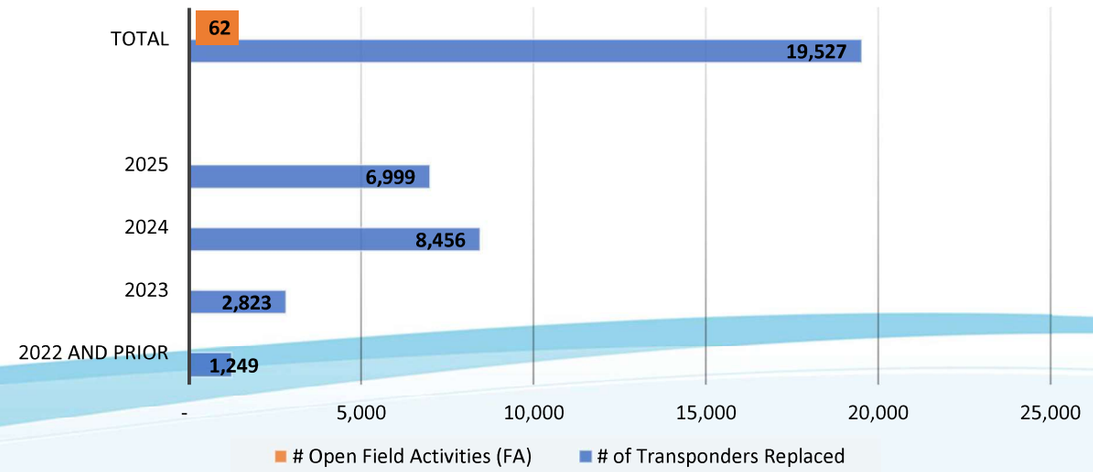
Transponder Replacement Highlights:

- 50 Transponders Replaced in November 2025.
- 85% Replaced to date.
- <1>% Failed; awaiting replacement.
- 14% Active; expected to fail soon.

Overtime



Transponder Replacement Progress (Calendar Year)



Department Of Water Budget Report for November 2025

	November 2025			Fiscal Year 2026			
	Budget	Actual	Variance	Year to Date Budget	Year to Date Actual	Variance	Variance %
Operating Revenue	$ 2,995,974.00	$ 3,235,481.80	$ 239,507.80	$ 14,979,870.00	$ 15,919,130.08	$ 939,260.08	6.3.%
Expenses							
Labor *	$ 1,278,478.42	$1,142,114.85	$ 136,363.57	$ 6,392,392.08	$5,710,574.25	$ 681,817.83	10.7.%
Services	1,361,349.08	$493,694.90	867,654.18	6,806,745.42	$2,508,775.45	4,297,969.97	63.1.%
Utilities & Materials	797,635.75	$335,871.99	461,763.76	3,988,178.75	2,298,077.12	1,690,101.63	42.4.%
Total Operating Expenses	$ 3,437,463.25	$ 1,971,681.74	$ 1,465,781.51	$ 17,187,316.25	$ 10,517,426.82	$ 6,669,889.43	38.8.%
Debt Service Principal & Interest	-	-	-	5,239,479.00	5,319,811.54	(80,332.54)	(1.5.%)
Operating and Debt Expenses	$ 3,437,463.25	$ 1,971,681.74	$ 1,465,781.51	$ 22,426,795.25	$ 15,837,238.36	$ 6,589,556.89	29.4.%
Net Income (Loss)	***$ (441,489.25)***	***$ 1,263,800.06***	***$ 1,705,289.31***	***$ (7,446,925.25)***	***$ 81,891.72***	***$ 7,528,816.97***	**101.1.%**

* Current month's labor is estimated

Capital Projects and Purchases**

	Fiscal Year Budget	November YTD 2026 Actual	Remaining Budget
Water Utility Funded Projects			
WU-IT-RandR Capital Purchases--	$ 57,665.38	$ -	$ 57,665.38
WU-IT-Expansion Capital Purchases--	978,197.32	79,614.43	898,582.89
WU-Eng-ALLR-17-10-KW-07 Paua Valley Tank R	9,407.62		9,407.62
WU-Eng-ALLR-Hanapepe Stream Crossing	54,498.95		54,498.95
WU-Eng 11-04 LO-10 Lawai 6n8inch Main Repla	75,324.96		75,324.96
WU-Eng WK-08, Kapaa Homesteads 2-0.5MG T	2,597,000.00		2,597,000.00
WU -23-05 Weke, Anae, Mahimahi Hee 6-8 incl	3,424,663.00		3,424,663.00
WU-Eng-23-08 Hanapepe Town Well MCC	502,319.08		502,319.08
WU-Eng-Job 18-3 -Kuhio Hwy Hardy-Oxford 16I	3,199,896.96	5,959.73	3,193,937.23
WU-Eng-56%R-Job 23-03 Kuhio Hwy Papaloa to	69,074.57		69,074.57
WU-Eng-16-4-WKK-03-Kilauea Wells MCC Reha	233,462.60		233,462.60
WU-Eng Phase I-Demo Admin Bldg/MoveCondi	230,700.00		230,700.00
WU-23-02 WK-34, Kuamoo Rd 8" Main Replace	99,063.00		99,063.00
WU-Eng-WK-08-Kapaa Homesteads 2-0.5MG Ta	400,000.00		400,000.00
WU-Eng-WK-39 Kapaa Homesteads Well #4 Pur	2,400,000.00		2,400,000.00
WU-Eng PLH-35b, Kapaia Cane Haul Road 18" M	1,124,375.70		1,124,375.70
WU-Eng-Security Fencing Admin Bldg	368,315.39		368,315.39

WU-Eng-Expansion Capital Purchases	13,867.01		13,867.01
Job 17-10 KW-07 Paua Valley Tank Repair	278,450.95		278,450.95
WU-Cns-44%R-09-01 Yamada Tank Clearwell, C	2,520,810.21	80,107.81	2,440,702.40
WU-Const-R&R-Tank Remediation Repair	32,899.55		32,899.55
Job 16-02 PLH-35B Kapaia Cane Haul Rd 18" Ma	2,990,220.00		2,990,220.00
Job 02-14 WK39 WK08 Kapaa Hmstd Well 4; Pk	194,120.62		194,120.62
WU-Ops-R&R-Upgrade and Replace SCADA RTU	19,498.65		19,498.65
WU-Ops-RandR Capital Purchases	3,274,252.87	240,082.74	3,034,170.13
WU-Ops-Expansion Capital Purchases	1,355,094.26		1,355,094.26
Projects with budget but no activity	-		-
	$ 26,503,178.65	$ 405,764.71	$ 26,097,413.94

FRC Funded Projects			
FRC-Eng-ALLE--H-08 Hanalei Well 2	$ 130,000.00	$ -	$ 130,000.00
FRC-Eng WK-08, Kapaa Homesteads 2-0.5MG T	3,000,000.00	122,751.00	2,877,249.00
FRC-Eng-ALLE-12-02 WK-23 UH Expmntal Stora	198,957.00		198,957.00
FRC Eng 04-08 WK-39 Drill Kapaa Homestead W	102,328.99	(122,751.00)	225,079.99
FRC-Eng-90%E-Kilauea 1.0MG Tank Job 02-06	7,212.24		7,212.24
Job 15-08-HW-11-Haena 0.2MG Tank	1,306.63		1,306.63
FRC-Eng-ALLE-Wainiha Well #4	200,000.00		200,000.00
Projects with budget but no activity			-
	$ 3,639,804.86	$ -	$ 3,639,804.86

Build America Bonds Funded Projects			
Eng-ALLR-09-01 K-01 Kalaheo 1111FT & 1222FT	$ 63,998.94		$ 63,998.94
Eng-ALLE-02-14 WK-08 Kapaa Homesteads Tanl	5,600,000.00		5,600,000.00
Eng WK-39, Drill/Dev Kapaa Homesteads Well I	2,600,000.00		2,600,000.00
Cns-ALLE-02-06WKK15-Kilauea 466 Tank Puu Pa	9,706.76		9,706.76
Eng-98%E-02-01 Land for Kukuiolono Tank Site	53,508.05		53,508.05
Cons-Exp-Kapaia Cane Haul Road	1,091,650.00		1,091,650.00
	$ 9,418,863.75	$ -	$ 9,418,863.75

State Allotment Funded Projects			
WK-08-Kapaa Homesteads 2-0.5MG Tanks	$ -		$ -
17-10-KW-07 Paua Valley Tank Repair	-		-
WK-39, Kapaa Homesteads Well No. 4 Pump ar	-		-
PLH-27 Kūhiō Highway (Hardy-Oxford) 16' Mair	-		-
	$ -	$ -	$ -

State Revolving Funded Projects			
WK-08, Kapaa Homsteads 2.0 5MG Tanks	$ 5,200,000.00		$ 5,200,000.00
Yamada Tank Conn Pipe	4,128,478.23		4,128,478.23
	$ 9,328,478.23	$ -	$ 9,328,478.23

Total Capital Projects	**$ 48,890,325.49**	**$ 405,764.71**	**$ 48,484,560.78**

Selected Divisions

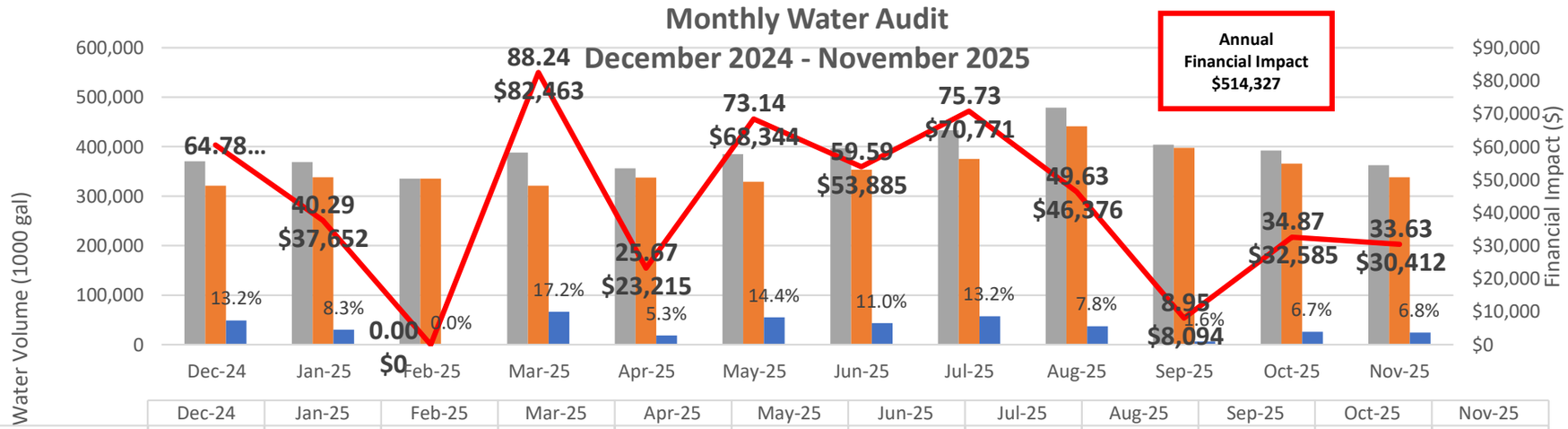
	November 2025			Fiscal Year 2026			
	Budget	Actual	Variance	Year to Date Budget	Year to Date Actual	Variance	Variance %
Engineering	$ 931,395.00	$ 327,711.49	$ 603,683.51	$ 4,656,975.00	$ 1,628,897.87	$ 3,028,077.13	65.0%
Fiscal	234,918.00	178,038.87	56,879.13	1,174,590.00	812,709.83	361,880.17	30.8%
Operations	1,441,899.00	888,147.10	553,751.90	7,209,495.00	5,150,720.10	2,058,774.90	28.6%
	$ 2,608,212.00	$ 1,393,897.46	$ 1,214,314.54	$ 13,041,060.00	$ 7,592,327.80	$ 5,448,732.20	41.8%

OPERATIONS DASHBOARD

Ops Highlights:

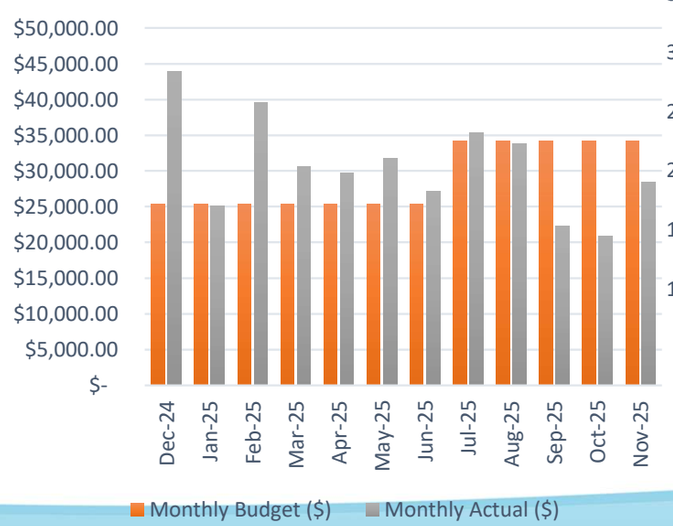
1. Interviewing for Lead Pipefitter, Lead Water Meter Mechanic, and Constr & Maint Worker II. Janitor Working Supervisor re-posted. Water Service Investigator I & II on continuous recruitment.
2. Hired Assistant Water Plant Operator.
3. Training conducted was for Large Customer and Source Meter calibration testing.

****OPS HIRED 10 NEW EMPLOYEES IN 2025! NEW OPS RECORD FOR NEW HIRES!****

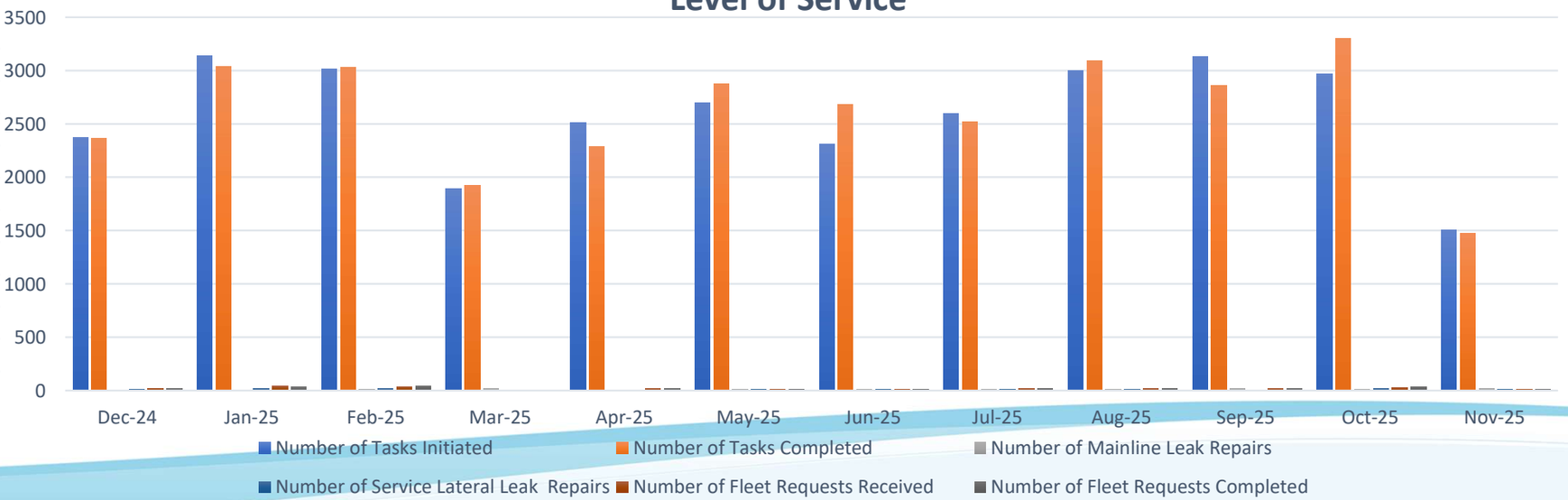


	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25
Produced (Kgals)	370,356	368,847	335,512	387,916	356,362	384,673	397,151	432,800	478,834	404,003	392,013	362,519
Customer Read (Kgals)	321,320	338,345	335,512	321,113	337,556	329,308	353,499	375,469	441,265	397,446	365,616	337,882
Non-Rev Water (Kgals)	49,036	30,502	0	66,803	18,806	55,365	43,652	57,331	37,569	6,557	26,397	24,637
Financial Impact	$60,531	$37,652	$0	$82,463	$23,215	$68,344	$53,885	$70,771	$46,376	$8,094	$32,585	$30,412

Overtime



Level of Service



OPERATIONS

	Last Month		Current Month		Previous FY Year to Date		Current FY Year to Date	
STAFFING								
Budgeted Staff | Vacancies	49	11	50	10	49	10	50	10
OVERTIME								
Budget ($) \| Actual ($)	$34,166.67	$20,931.31	$34,166.67	$28,409.04	$127,083.33	$165,555.82	$170,833.33	$140,717.37
FLEET MANAGEMENT								
# of Fleet Requests Received	30		13		102		99	
# of Fleet Requests Completed	36		15		112		116	
METER PROGRAM								
# of Existing Meters Replaced	0		0		243		3	
# of Existing Meters Repaired	150		63		1719		1224	
# of New Meters Installed	7		7		53		44	
# of New Laterals Installed	0		0		2		0	

OPERATIONS

LEVEL OF SERVICE

	Last Month	Current Month	Previous FY YTD	Current FY YTD
# of Tasks Initiated	2965	1510	12581	13203
# of Tasks Completed	3300	1478	13327	13251
# of Mainline Leak Repairs	11	18	85	76
# of Service Lateral Leak Repairs	18	14	93	67
# of Calls for Service	194	197	1076	972
# of Temporary Hydrant Meters Installed	0	0	11	6
# One Call Request Received | Completed	87 | 98	54 | 52	197 | 195	410 | 404
# of Hydrant Hits	2	3	7	11

WATER AUDIT

	Last Month	Current Month	Previous FY YTD	Current FY YTD
Water Produced (Million Gallons)	392.013	362.519	2097.462	2070.169
Customer Meter Reading (Million Gallons)	365.616	337.882	1715.819	1917.678
Non-Revenue Water (Million Gallons)	26.397	24.637	381.643	152.491
Non-revenue %	7%	7%	18%	7%
Financial Impact	$32,584.98	$30,412.41	$471,107.75	$188,237.94

Department of Water County of Kaua'i

ENGINEERING DASHBOARD

	Last Month		Current Month		Previous FY Year to Date		Current FY Year to Date	
STAFFING								
Budgeted Staff | Vacancies	22	4	22	4	25	4	-	-
OVERTIME								
Budget ($) \| Actual ($)	$15,400	$10,200	$15,400	$2,400	$64,600	$116,800	$77,100	$63,300

	Last Month		Current Month	
PROJECT MANAGEMENT				
DOW Projects In Design | In Construction	8	12	8	11
Private Projects Design Approved | In Construction	5	170	2	170
Private Projects Construction Completed	0		1	

CIP Project Highlights:

- Kapa‘a Homesteads 325’ Tanks
  - Probing for water lines
  - Installing retaining wall
- Pu‘u Pane 1.0 MG Tank
  - Completing permitting and bid docs to bid FY26
  - Received commitment letter from DOH SDWB for DWSRF Loan
- Kalāheo Water System Improvements
  - Working on change order proposal to upgrade booster pumps at 908’ Tank site and Yamada Tank site
- UH Experimental Station 605’ Tank
  - Working on water line profile
- Hā‘ena 0.2 MG Tank
  - Completing permitting and bid docs to bid FY26
  - Coordinating funding with DOH SDWB for DWSRF Loan
- Kīlauea Wells 1 & 2 MCC, Chlorination Facilities
  - Coordinating to energize and test temporary MCC
  - Coordinating permanent MCC
- Kūhiō Hwy (Hardy-Oxford) 18” Main Replacement
  - Preparing to start work on Kūhiō Highway

Department of Water County of Kaua‘i

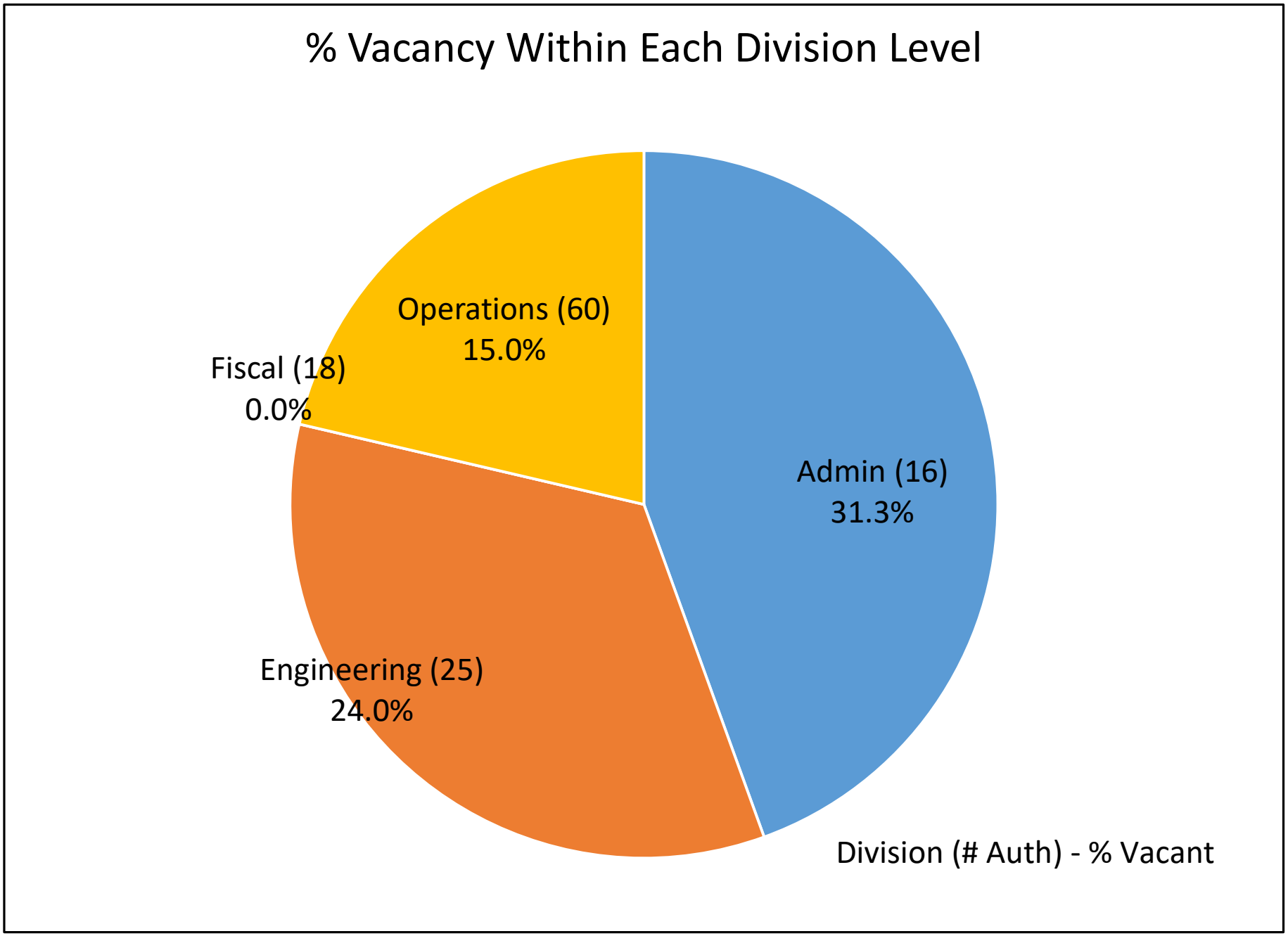
ENGINEERING DASHBOARD

	Last Month		Current Month		Previous FY Year to Date		Current FY Year to Date	
WATER RESOURCES AND PLANNING								
Number of Customer Requests Received | Completed							
Subdivision Applications, Zoning, Land Use and Variance Permits	8	1	8	11	33	29	46	38
ADU/ARU Clearance Applications	9	29	19	17	14	14	65	63
Building Permits	48	63	133	128	766	726	614	609
Water Service Requests	25	33	8	41	150	172	129	158
Government Records Request	0	0	3	3	18	13	14	18
Backflow Inspection # of Devices Tested	126		70		588		435	

DOW Project Highlights:

- Water Systems Investment Plan (WSIP)
  - Working on Rate Study Update
  - Working on FRC Update
- Kaua‘i Water Use and Development Plan (KWUDP)
  - Coordinating near-term conditions
- As-Needed Grant Writing and Preparation Services
  - Applied for WaterSMART Grant for AMI Meters 11/13/24

Department of Water County of Kaua‘i


% Vacancy Within Each Division Level
Operations (60)
15.0%
Fiscal (18)
0.0%
Admin (16)
31.3%
Engineering (25)
24.0%
Division (# Auth) - % Vacant

DEPARTMENT OF WATER
County of Kaua'i

"Water has no substitute – Conserve It!"

MANAGER'S UPDATE

December 18, 2025

Pursuant to Board Policy No. 3

1. CHANGE ORDER NO. 7 FOR CONTRACT NO. 701 WITH GLENMOUNT GLOBAL SOLUTIONS, LLC.
JOB NO. 20-03 SCADA SYSTEM MAINTENANCE AND PROFESSIONAL CONSULTATION SERVICES

RECOMMENDATION:
It is recommended that the Manager approve Change Order No. 7 for Contract No. 701 with Glenmount Global Solutions, LLC.

FUNDING:

Account No.	10-02-10-561-000		
Acct Description	WU/IT/Admin/Repairs and Maintenance-Other than Water System (Line 7-SCADA System Annual Maintenance Contract)		
Funds Available	*Verified by WWC*		$ N/A
Contract No.	701		
Vendor	Glenmount Global Solutions, LLC		
	Contract Amount	$158,764.00	
	5% Contingency	$0.00	
	CO1 (12/23/21)	$71,236.00	
	2nd Year Services (12/23/21)	$158,764.00	
	3rd Year Services (12/15/22)	$158,764.00	
	CO2 (09/21/23)	$29,890.00	
	CO3, 4th Year Services (12/21/23)	$161,939.28	
	CO4 (05/16/24)	$8,688.00	
	CO5, 5th Year Services (11/21/24)	$165,178.07	
	CO6 (09/18/25)	$25,864.33	
	Total Funds Certified To Date	$939,087.68	
Change Order No. 7:			
Contract Time Extension		$0.00	
	Total Change Order	$0.00	<$ N/A>
Contract Amount To Date		$939,087.68	

BACKGROUND:
Contract NTP Date: January 2, 2021
Original Contract End Date: January 1, 2024
New Contract End Date: April 1, 2026

This is a no cost time extension of 90 days to complete Change Order No. 6 with Etech for the assessment and evaluation of our SCADA network.

The Etech team will come to KAUAI and visit our SCADA operations data center as well as a sample remote site to document all of the hardware assets, interactivity points and trust boundaries. They will produce a detailed findings report as well as recommended remediations to their findings.

2. MULTI-TERM CONTRACT ENCUMBRANCE FOR CONSTRUCTION CONTRACT C765, JOB NO. 24-05 – KAPA'A HOMESTEADS WELL NO. 4 PUMP AND CONTOLS, WAILUA-KAPA'A WATER SYSTEM

RECOMMENDATION:
It is recommended that the Manager approve the budget line-item movements.

FUNDING:

From Account No.	10-20-00-604-138		
Acct Description	WU-Eng-HE-03a Hanapepe Town Well MCC		<$83,000.00>
To Account No.	10-20-00-605-118		
	WU-Eng-WK-39 Kapa'a Homesteads Well No. 4 Pump and Controls		$83,000.00
	2026 Budget		$2,400,000.00
Contract No.	765		
Vendor	Hawaiian Dredging Construction Company, Inc.		
	Contract Amount	$7,683,000.00	
	5% Contingency	$N/A	
	Total Funds Certified	$5,083,000.00	$2,483,000.00

BACKGROUND:

Contract C765 is a multi-term contract. The additional funding needed to encumber the total contract amount is $2,483,000.00. A total of $2,400,000.00 was approved and budgeted in the FY2026 Capital Budget, under account 10-20-00-605-118, WK-39 Kapa'a Homesteads Well No. 4 Pump and Controls. The additional budget needed of $83,000.00 will be moved from account 10-20-00-604-138 HE-03a Hanapēpē Town Well MCC, Chlorination Facilities.

3. CHANGE ORDER NO. 1 FOR CONTRACT NO. 778 WITH ABR VENTURES LLC dba HONUA WATERWORKS
GS-2025-04 HYRDANTS & APPURTENANCES AND VARIOUS DRINKING WATER PIPE REPAIR AND MAINTENANCE FITTINGS

RECOMMENDATION:
It is recommended that the Manager approve a no cost time extension with ABR Ventures LLC dba Honua Waterworks to furnish and deliver the subjects materials.

FUNDING:

Account No.	10-40-60-563-010		
Acct Description	WU/Ops/TandD/Operating Supplies/Invty. Stock		
Funds Available	*Verified by WWC*		$ N/A
Contract No.	778		
Vendor	ABR Ventures LLC dba Honua Waterworks		
	Contract Amount	$624,891.89	
	5% Contingency	$0.00	
	Total Funds Certified	$624,891.89	
Fund Balance			$ N/A

BACKGROUND:
Contract NTP Date: March 11, 2025
Original Contract End Date: December 5, 2025
New Contract End Date: January 31, 2026

Honua Waterworks has requested a no cost time extension for the subject contract due to manufacturing and shipping delays outside of their control. The Department has deemed this request fair and reasonable and recommends approval of the extension.

CONVEYANCE OF WATER FACILITIES NONE

APPLICANT	TMK #	LOCATION