

DEAN BOILER TUBE CLEANER

Cleans both water-tube and fire-tube boilers, employing vibration to accomplish its work. Made for all sizes of tubes from 1 1/2" to 6" diameter and can be equipped to operate in two or more different sizes of tubes.

We invite you to try one and return it at our expense if it does not prove satisfactory.

Honolulu Iron Works Co.

SPALDING

The name that you always find on the very best Sporting Goods made. We are the Spalding Distributors for this Territory and carry a splendid stock of these well known goods.

Do you play Base ball, Foot ball, Basket ball, Tennis, Golf, Hand ball, Croquet or any of the many games that are played in these Islands? If you do, or if you go in for Athletics of any sort, send to **US** for your equipment and we will guarantee satisfaction.

E. O. HALL & SON, Ltd.
HONOLULU.

The World's Highway

The World's travel passes through Honolulu. All indications point to a great growth in the importance of our city; and this means a steady upward rise in real estate values.

**NOW IS THE TIME
TO GET A HOME**

**COLLEGE HILLS LOTS
FOR SALE**

Trent Trust Co., Ltd.

CRYSTAL WHITE SOAP

Best for the home laundry.
White; there is no rosin in it.
Hard; lasts longer than common soap.
Heavy; therefore will do more work.

SOLD BY ALL GROCERS.

H. Hackfeld & Co., Ltd.

WHOLESALE DISTRIBUTERS. HONOLULU.

READ THE MAUI NEWS

Concrete Electric Lighting Proposition.

In view of the need for better lights for the towns of Wailuku and Kahului, and the apparent apathy of the parties who hold the franchise for furnishing said towns with electric lights. We publish the following communication on the subject from a practical engineer.

Electric Stations For Towns of About 1500 Inhabitants.

The size of the equipment is the first thing to consider, which is arrived at by a careful canvas over the territory to be lighted, so as to determine the actual amount of current used by the three kinds of loads which should be estimated separately to get a correct idea of what is required.

1st consideration, is the commercial incandescent lighting load, being mostly residential and merchant. (All night service.)

2nd consideration, is the multiple or series incandescent and Arc lighting load, that is, public streets and parks, etc. (Night service.)

3rd consideration, is the power service load. (Day service.)

Now take the towns of Wailuku and Kahului which are situated advantageously for one plant common to both, which should be located somewhere between the two towns.

The 1st consideration would be a Multiple Service Connection of about 1500 sixteen candle-power lamps. In towns like the above this service would be expected all night, every night in the year without any close down emergencies. 50% of this load would be a conservative estimate to be generated at any one time, 41.2 K. W. actually required.

This current should be metered out to the consumers by a Recording Integrating Watt Meter, and the consumer will pay for exactly the amount of current he consumes. The rate should be 15¢ per Kilowatt hour. Allowing a slight discount upon prompt payment of monthly bills within a specified time, the revenue derived from this service would approximate \$2.50 per lamp per year, equal \$3,750, not considering the discount.

The 2nd consideration would be a multiple or series service connection of 100-60 Watt 50 candle-power Incandescent Tungsten Lamps, - 6 K. W., and a multiple series connection of 10 Arc lamps, - 6 K. W.

The series service require a special type transformer with a constant current. With the multiple service ordinary House Lighting transformers will suffice.

This service should be flat rate and inaugurate what is called The Moo Light Schedule, say \$6.50 per arc lamp per month, - \$65, and \$2 per month per lamp for 100-60 Watt Inc. lamps, - \$200.

\$65 plus \$200 by 12 make, \$3,180 income per year. This service and revenue would be dependent upon an appropriation from the Board of Supervisors.

The 3rd consideration of Power load (Day Service) is not really necessary to determine the size of equipment in this case, only to determine the kind or type of electric generator. This service should be developed up to the normal capacity of generator, if possible to do so, as it will increase the revenue and place the Plant in a more modern category. Make a special rate for this current and fix operating times so as not to run over onto night operating and overload generator.

3 Phase currents are considered best for commercial motors. Now then the size of equipment will be 41.2 K. W. plus 6 K. W. plus 6 K. W. - make 53.2 K. W. Allowing 25% more K. W. than actually required would be 66.5 or say 70 Kilo-Watts, which will allow a good margin for increase of business.

Therefore the generator would be a 70 K. W. 3 phase 2200 Volt 60 Cycle revolving field type alternating current Generator 70 K. W. make 93.3 Horse Power. A prime mover will be 10% larger 102.6 H. P. A vertical compound condensing steam engine of 105 H. P., capacity direct connected to generator with boilers and accessories using crude oil for fuel would be a modern plant. Generator accessories and steam engine accessories would cost about \$4,600.

A very modern Prime Mover would be a Homsby-Akroyd Patent safety crude or kerosene oil engine, four cylinder verticle type 105 H. P. accessories would probably cost \$5,000.

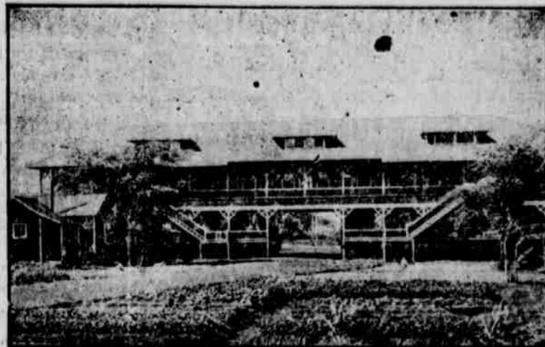
The Pole and Line primary construction and pole and line secondary construction materials including single phase standard transformers, cut out etc. and integrating watt meters all bunched as a whole would cost approximately \$600 per mile, about seven miles for the two towns would cost \$4,200. The estimate stands big.

ALIOLANI COLLEGE

A BOARDING SCHOOL FOR BOYS

Offers at Moderate Cost a Practical Education Preparing for Business or College Entrance. Competent Staff of Resident Masters

New
Buildings
Campus
of
Five Acres



Splendid
Prospect

Liberal
Diet

Main building from campus showing vegetable garden. Note open lanais.

Aliolani College is beautifully situated at the mouth of Paalo Valley in the most healthful of the Honolulu suburbs. The life and discipline are directed to the development of character and manliness. Outdoor life and games given due prominence. Frequent expeditions to mountains and beach are arranged. Special attention given to small boys. Resident Matron attends to comfort of students. Fees from \$125 to \$150 per annum according to age. School commences Tuesday, Sept. 12th. Prospectus sent on request, or may be obtained at office of this paper.

L. G. BLACKMAN, Principal
P. O. BOX 502, HONOLULU

NOTICE.

Board of Public Lands.

Notice is hereby given that the following proposed land transactions are before this Board for consideration. All persons desiring to object because the land should be homesteaded or otherwise are requested to present such objections to this Board in writing, or in person on Monday, August 29th, at 2 p. m., at Executive Building, Honolulu, T. H.

IN COUNTY OF MAUI.

General lease of Pastoral land of Waiolani and Keokea, between the Government road and the sea, containing 10,264 acres. Terms of lease 21 years. Upset rental \$1,028 per annum. Applicant, A. M. Brown.

General lease of the lands of Waiolani Keokea, lying mauka of the homestead tract, and below the forest reserve, containing 1300 acres, more or less. Term of lease 21 years. Upset rental \$135 per annum.

General lease of portion of Waiakoa-Alae 3 and 4, containing 365 acres. Term 21 years. Upset rental \$36 per annum.

Exchange of remnant, of Alae 3 and 4, lying makai of the Government road, and containing 310 acres. Offer to purchase for cash \$3 per acre; or exchange for the portion of Kaonoulu and Alae 1 and 2, mauka of the forest reserve line. Applicant for the above leases and exchange, A. M. Brown.

Land exchange between the Government and the Kaeleku Sugar Co. for a portion of the old Mission Lot, situated in the town of Hana, for 108.5 acres of agricultural land. Applicant, County of Maui.

Kaeleku Sugar Co. right-of-way for road through certain lands situated in the District of Hana. Applicant, T. H. Davies & Co., Ltd.

Land exchange between the Government and J. H. Raymond land at Kanaole and the Kanahena remnants, Maui. Applicant, J. H. Raymond.

ISLAND OF MOLOKAI.

General lease of land of Punalau of pastoral-agricultural quality, containing 89 acres, more or less. Term of lease 15 years. Upset rental \$150 per annum. Applicant, Joel Kahinui.

(Signed) J. F. BROWN,
Secretary of Board of Public Lands.
June 21st, 1910.
June 25 to Aug. 13.

Buildings, Real Estate, Legal expenses and 10% extras	\$ 2800
Central Station, Cost Steam Equipment	4600
Pole and Line Construction, Distribution & Material	4200
Grand total first cost entire Installation	\$11,600
Revenue on 41.2 K. W. for Commercial Lighting	\$ 3750
Revenue on 12. K. W. for County Lighting	3180
	\$6930
Operating Expenses, sundry supplies, fuel, depreciation, etc. etc., approximately	7600
Profits	\$1330

This equals approximately 11.4 per cent on money invested. These figures are conservative, and it is probable by careful supervision the cost of a plant as a whole could be reduced. To make a business success of a proposition such as this it requires a practical man experienced with modern methods of distribution, illumination, transformers, meters and operating systems.

AVISO.

Junta das Terras Publicas.

Por esta noticia e' feito publico que estao perante esta Junta as as propostas abaixo mencionadas para serem consideradas:

Qualquer pessoa que deseje oppor-se pelo facto que estas terras devam ser dispostas como "homesteads" ou d'outra qualquer forma deverao apresentar suas objecoes a esta Junta por escripto ou propria pessoa Segunda-feira 29 d'Agosto pelas 2 horas da tarde no Palacio do Governo em Honolulu, T. H.

NO CON. DAJO DE MAUI.

Arrendamento de terreno de pastagem em Waiolani e Keokea, entre a estrada Publica e o mar, contendo 10,264 acres. Termo de arrendamento 21 annos. Offerta de renda annual \$1,028. Requerente: A. M. Brown.

Arrendamento dos terrenos de Waiolani e Keokea, situados acima dos terrenos dos "homesteads" e abaixo dos terrenos reservados para floresta, contendo 1300 acres mais ou menos. Termo de arrendamento 21 annos. Offerta de renda annual \$135.

Arrendamento d'uma parte de Waiakoa-Alae 3 & 4, contendo 365 acres. Termo de arrendamento 21 annos. Offerta de renda annual \$36.

Troca dos restos de Alae 3 & 4, situados abaixo da estrada Publica, contendo 310 acres. Offerta para comprar a \$3 por acre; ou trocar pela parte de Kaonoulu, Alae 1 & 2 acima da linha da reserva da floresta. Requerente para os acima mencionados arrendamentos e troca. A. M. Brown.

Troca de terrenos entre o Governo e a Companhia de Kaeleku por uma parte do terreno denominado "Mission Lot" situado na Villa de Hana, por 108 e meio acres de terra propria para agricultura. Requerente, Condado de Maui.

Kaeleku Sugar Co. para um direito de caminho atravez certos terrenos situados no Districto de Hana. Requerente T. H. Davies & Co. Ltd. Troca entre o Governo e J. H. Raymond por terreno em Kanaole e os restos de Kanahena, Maui. Requerente J. H. Raymond.

NA ILHA DE MOLOKAI.

Arrendamento de terra em Punalau de pastagem e de agricultura contendo 89 acres maisou menos. Termo de arrendamento 5 annos. Offerta de renda annual \$150. Requerente: Joel Kahinui.

(Assignado) J. F. BROWN,
Secretario das Junta da Terras Publicas.
Junho 21 de 1910.
June 25 to Aug. 13.

The cost of residential wiring amounts to \$1.50 per outlet for all open work on knobs and cleats. If concealed wiring is desired they amounts to \$4.50 per outlet. Outlets are openings left in the wiring for one lamp or a cluster of lamps in any one place and switch loops. Hydro-Electric installations cost much more than steam installation by as much as 50 or 100 per cent on first cost dependent on development of water resources etc., etc.

Trusting that this article will be of some benefit to those concerned, I am,

C. W. HUDSON,
One of the Engineers,
Pioneer Mill Co.,
Lahaina.

OLELO HOOLAHA.

Hooloha Papa o na Aina Aupuni.

Ke hoolahaia aku nei ke noonooia nei inua o keia Papa keia mau hana pili i na Aina Aupuni: O na kanaka aupuni e makemake ana e kua mai no keia manao e wehe i ka aina i mau home hookunoono a no kekahi kumu e ae paha, ke kooia aku nei e waiho mai i ka lakou mau kumu kua ma ke kakau, a i ole ma ka hele kino ana mai inua o ka Papa, Poakahi, Augate 29, ma ka hora 2 auna la, ma ka Hale Mana Hooko, Honolulu, T. H.

MALOKO O KE KALANA O MAUI.

Hoolimalima akea i na aina hanai holoholona ma Waiolani ame Keokea, mawaena o ke Alanui Aupuni ame kekai, nona ka ili he 10,364 eka. Manawa o ka hoolimalima 21 makahiki. Uku hoolimalima, \$1,028 o ka makahiki. Mea noi: A. M. Brown

Hoolimalima akea i na aina o Waiolani ame Keokea, mauka o kahi i hookaawaleia i mau home hookunoono, a malalo mai o kahi i waihoia i wahi hoomalua no ka ululau, nona ka ili he 1300 eka, oi a emi mai paha. Manawa hoolimalima 21 makahiki. Uku hoolimalima \$135 o ka makahiki.

Hoolimalima akea o kekahi hapa o Waiakoa-Alae 3 me 4, nona ka ili he 365 eka. Manawa hoolimalima 21 makahiki. Uku hoolimalima \$36 o ka makahiki.

Kuapo i ke koena o Alae 3 ame 4, e waiho ala makai o ke Alanui Aupuni, nona ka ili he 310 eka. He noi e kuai ma ke dala kuike no ka \$3 o ka eka, a i ole e kuapo no kekahi wahi ma Kaonoulu ame Alae 1 ame 2, mauka o ka palena o kahi i hoomalua no ka ululau. Mea nana keia mau noi hoolimalima ame kuapo maluna'e, A. M. Brown.

Kuapo aina mawaena o ke Aupuni ame Kaeleku Sugar Co, no kekahi hapa o ka Apana Aina Misiona, ma ke taona o Hana, no 108.5 eka aina mahiai. Mea noi. Ke Kalana o Maui.

Kaeleku Sugar Co., i pono alanui maluna o kekahi mau aina e waiho ala ma ka Apana o Hana. Mea noi T. H. Davies & Co., Ltd.

Kuapo aina mawaena o ke Aupuni me J. H. Raymond no ka aina ma Kanaole ame koena Aina Aupuni ma Kanahena, Maui. Mea noi: J. H. Raymond.

MOKUPUNI O MOLOKAI.

Hoolimalima akea o ka aina kupo no ka hanai holoholona ame mahiai ma Punalau, nona ka ili he 89 eka, oi a emi paha. Manawa hoolimalima he 15 makahiki. Uku hoolimalima \$150 o ka makahiki. Mea noi: Joel Kahinui.

(Kakaunooia) J. F. BROWN,
Kakaunooia Papa o na Aina Aupuni.
June 21, 1910.
June 21 to Aug. 13.