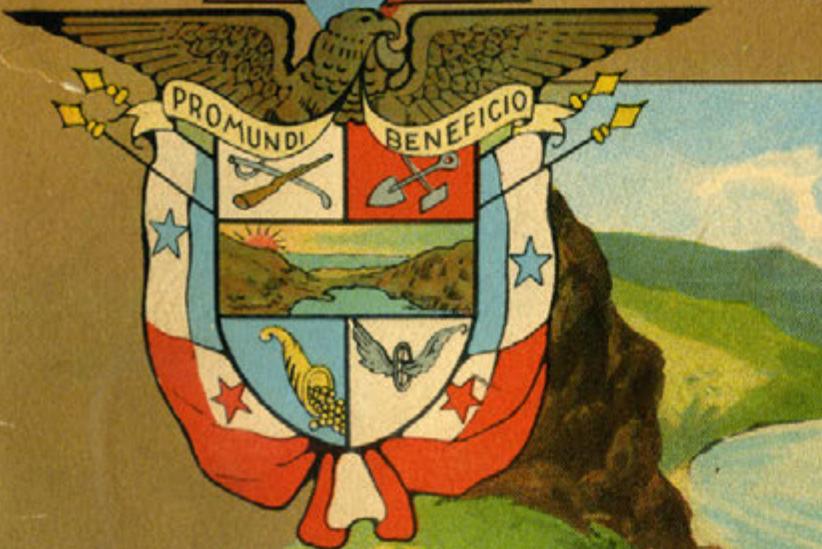


Souvenir

OF



PANAMA AND THE CANAL

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*H. W. Bailey*

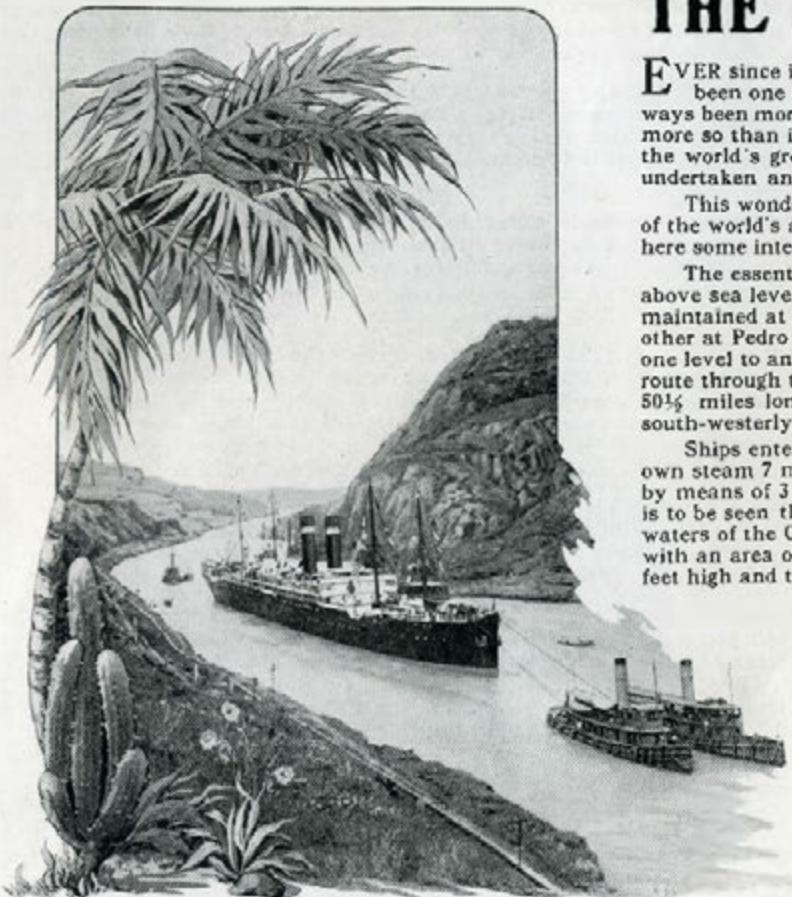
## THE PANAMA CANAL

EVER since its discovery in 1501 the Isthmus of Panama has been one of the great trade routes of the world and has always been more or less prominently before the public; but never more so than in the early days of the twentieth century, when the world's greatest engineering feat, The Panama Canal, was undertaken and brought to completion.

This wonderful waterway has for years past been the focus of the world's attention, and it will not be inappropriate to give here some interesting statistics about it.

The essential features of the Canal are: A lake at 85 feet above sea level and two approaches to it at sea level. The lake is maintained at its high level by two dams, one at Gatun and the other at Pedro Miguel, and ships passing through are raised from one level to another by means of a series of locks. The entire route through the canal from deep water to deep water is about  $50\frac{1}{2}$  miles long, and runs in a more-or-less north-easterly to south-westerly direction.

Ships enter the Canal at Limon Bay and proceed under their own steam 7 miles inland to Gatun where they are raised 85 feet by means of 3 flights of locks to the level of the Lake. At Gatun is to be seen the great Dam, mentioned above, impounding the waters of the Chagres River and thereby forming the great Lake with an area of 164 miles. The Gatun dam is  $1\frac{1}{2}$  miles long, 115 feet high and tapers from a width of 2500 feet at the bottom to 100 feet at the top. Contrary to expectations very little masonry can be found about this dam, having been constructed of enormous masses of rock and earth piled across the valley, and to all appearances, it is one of the natural features of the landscape. About midway in the dam the Spillway is located through which the surplus water from the lake is discharged into the Atlantic Ocean. The Spillway is cut through a natural hill of solid rock, which forms part of the dam and is capable of discharging 154,000 cubic feet of water per second. Part of the surplus water from the lake is diverted through pipes into the Hydroelectric Plant which is situated at the side of the dam and is forced through great turbines which generate sufficient electric current to light the whole Canal Zone and supply power for all electrical machinery connected with the Canal.



sufficient electric current to light the whole Canal Zone and supply power for all electrical machinery connected with the Canal.

After entering into the lake, ships proceed under their own steam at almost full speed 23 miles until they reach the Culebra Cut, now called "Gaillard Cut" after Colonel Gaillard, whose genius and perseverance contributed greatly towards bringing this difficult engineering feat to a successful conclusion. Here speed has to be reduced, as the channel narrows to 300 feet.

Passing the "Cut" Pedro Miguel is reached and here vessels are lowered 30 feet to the level of Miraflores Lake, a small artificial lake about 2 miles square, and after traversing this lake the vessels arrive at Miraflores Locks where they are lowered 55 feet by two flights of locks to the sea level channel on the Pacific side whence they steam 8 miles to deep water in the Pacific Ocean. The time occupied in passing through the Canal is about 10 to 12 hours according to the speed of the vessel. Three hours of this time are used in passing through the locks.

The Locks are constructed in pairs in order to allow ships to pass in either direction at the same time. Each lock is a massive concrete chamber that can be closed at either end by great steel gates. Each chamber will admit a ship 1000 feet long and 110 feet wide with a draft of 40 feet; but as it is hardly likely that vessels of this enormous size will frequently pass through the canal, the locks have been divided by intermediate gates into two chambers 400 and 600 feet long respectively, in order to save water and time in making lockages.

The City of Colon is situated at the Atlantic end of the Canal. This town, almost entirely the outgrowth of the Rail Road and the Canal has undergone many improvements in the last years and to-day can be considered an up to date tropical town. In 1916 fire destroyed the greater part of Colon, which up to the time was constructed almost entirely of wood, and now handsome concrete buildings have taken the place of the old wooden structures. Among the buildings of interest are the Panamanian Government Building, the new Panama Rail Road Station and the Washington Hotel, the latter an up to date hostelry built by the Panama Canal provided with every modern comfort and erected on a cool open spot facing the Atlantic breeze.

Next to Colon is the twin town "Cristobal." This town, which is situated within the limits of the Canal Zone was built by the Panama Canal to accommodate its employes and its offices and here are situated the Residences of Canal employes as well as the large Cold Storage Plant. All the Steamship Companies have their offices in Cristobal and the water-front is occupied by a number of modern concrete wharves as well as the Atlantic Coaling Plant, the largest of its kind in the world.

The City of Panama is on the Pacific end of the Canal. This city although thoroly sanitated and modernized since the United States began the construction of the Canal, still preserves its quaint spanish character with its winding narrow streets, its old churches and cathedral and old ruins. Although in Colon the english language is mostly spoken, in Panama spanish is predominant although english is generally understood by the greater part of the population and the merchants. There are a number of fine buildings in Panama such as the Government Palace, the Theater, the Post Office Building, the City Hall, and beyond the city limits is the newly built residential section called Bella Vista with its picturesque cottages and villas and the bathing pavilion facing a beautiful stretch of sandy sea beach.

A motor car ride of about 8 miles over a splendid road will take visitors to the ruins of Old Panama, which was destroyed by the Pirate Morgan and his band of pirates about 250 years ago.

Adjoining Panama within the Zone limits is the American Settlement "Balboa" with the Canal Administration Building, Canal Zone High School, Pacific Terminal Wharves, Coaling Plant and numerous concrete residences for the Canal Employes. Joining another section of the city is the Zone district "Ancon" with the Tivoli Hotel and the famous Ancon Hospital, the best equipped tropical Hospital.



Bird's Eye View of the City of Panama, Republic of Panama.  
Vista de pajaro de la ciudad de Panama, Rep. de Panama.



Cathedral Church and Plaza, Panama, Rep. of P.  
Iglesia y Plaza de la Catedral, Panama, Rep. de Panamá.



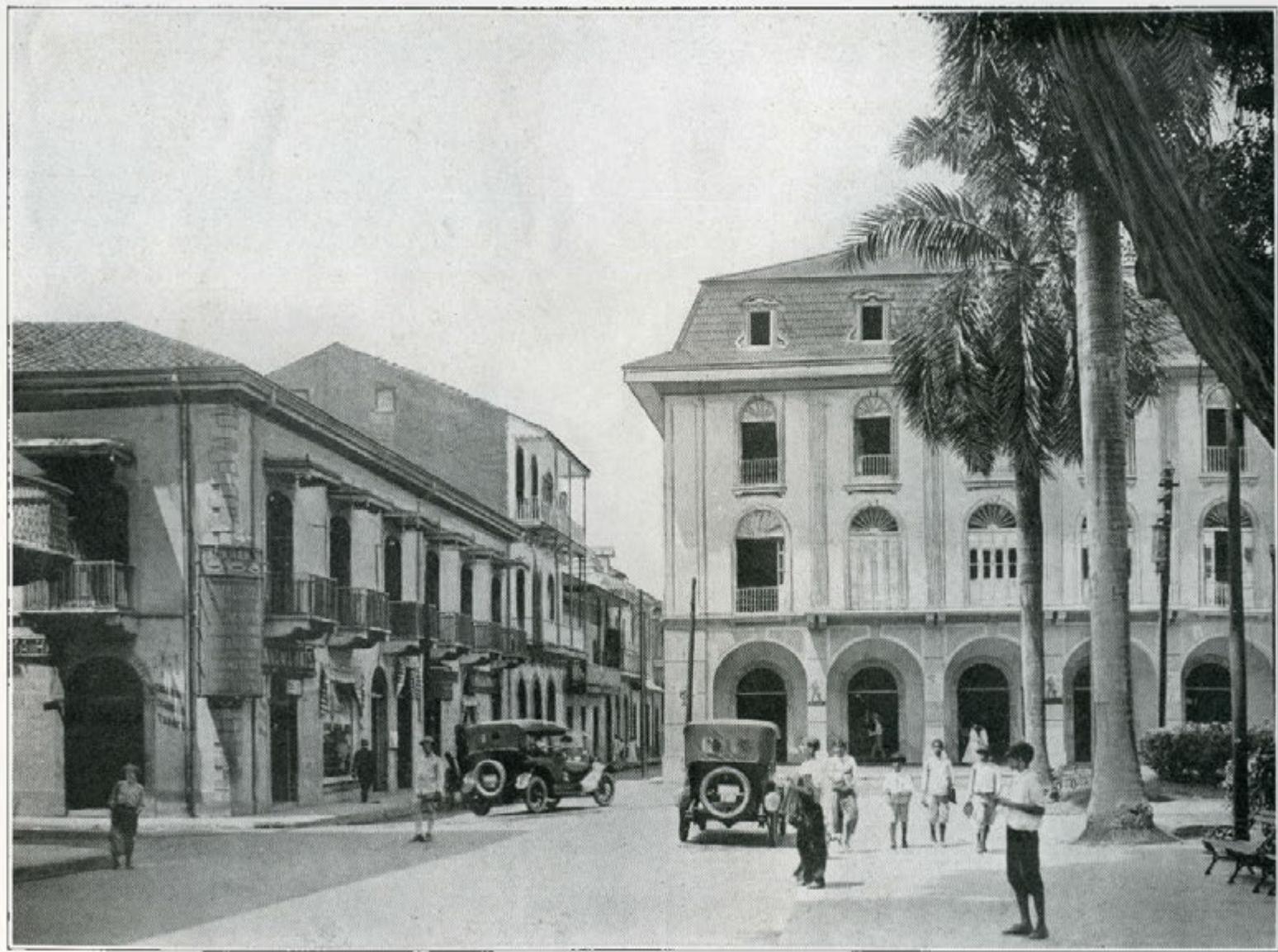
Cathedral Plaza, Panama, Rep. of Panama, showing Hotel Central.  
Plaza de la Catedral mostrando el Hotel Central, Panama, R. de P.



View of Central Avenue, Panama City, Rep. of Panama.  
Vista de la Avenida Central, ciudad de Panamá, Rep. de Panamá.



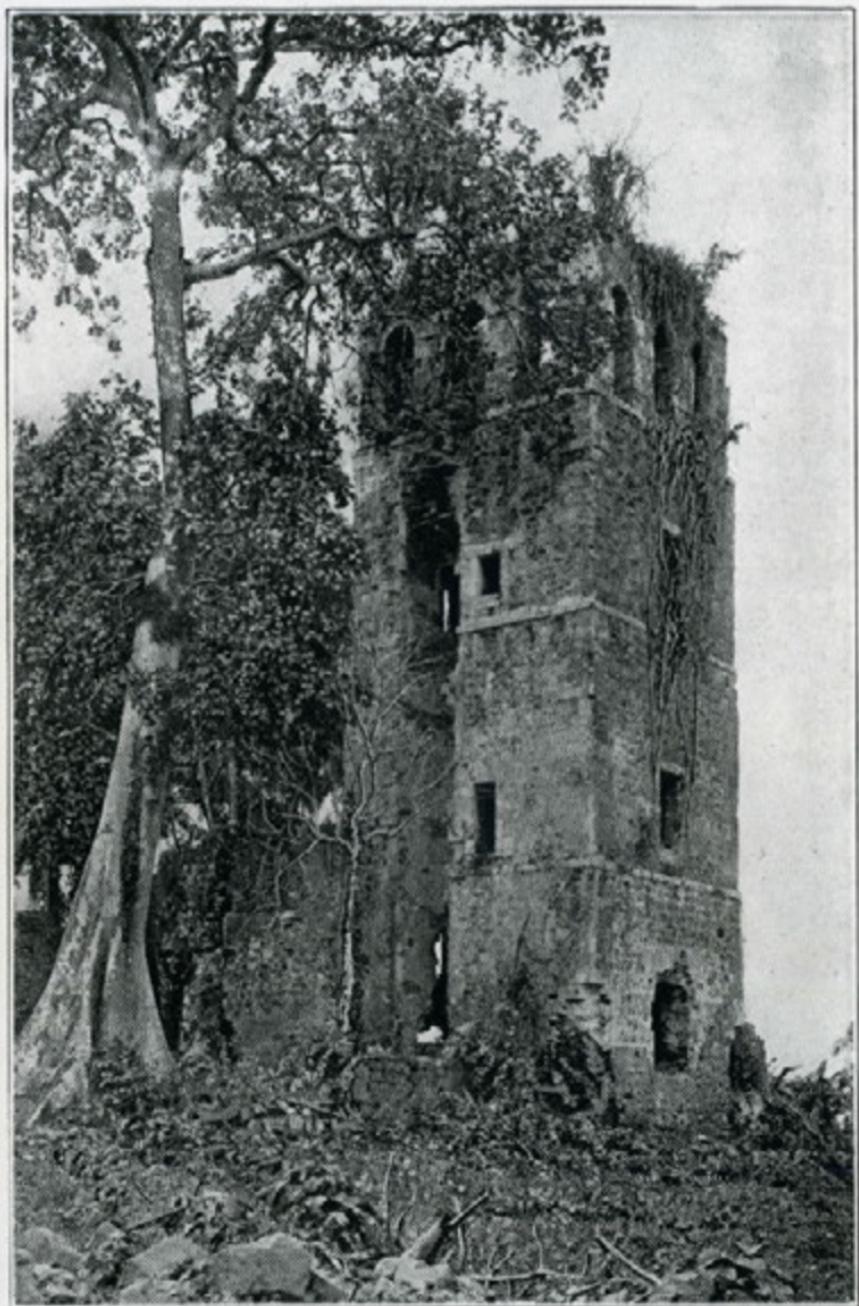
Cathedral Plaza and 5th Street showing Hotel Central, Panama.  
Plaza de la Catedral y Calle 5a mostrando el Hotel Central, Panamá, R. P.



Fifth Street, Panama, Rep. of Panama, showing Post Office Building.  
Calle 5a mostrando el edificio de la Agencia Postal, Panama, R. de P.



San Francisco Park with Church in background. Panama, Rep. of Panama.  
Parque de San Francisco con la Iglesia en el fondo, Panama, R. de P.



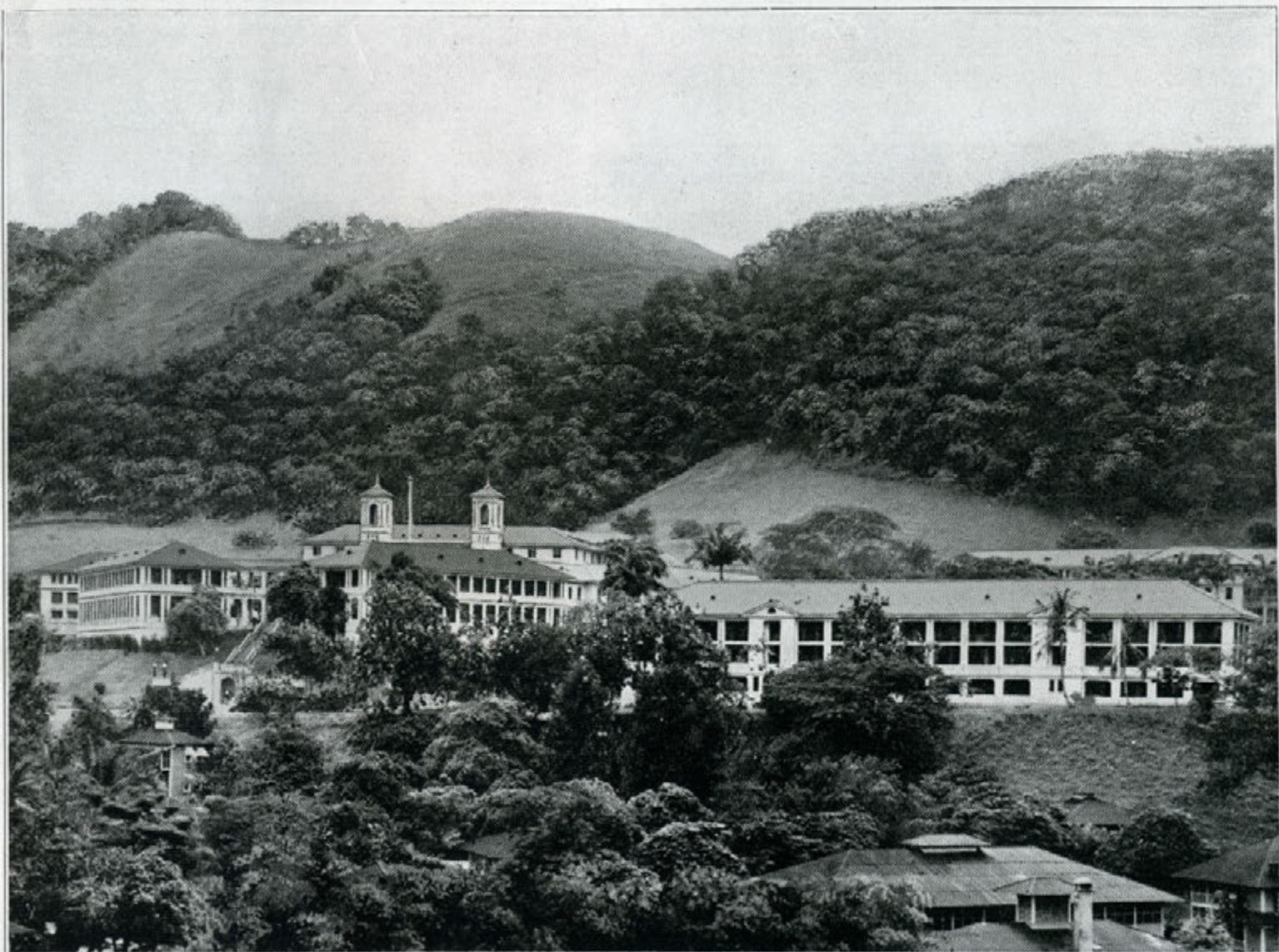
Ruined Tower at Old Panama. Republic of Panama.  
Ruinas de la torre de la antigua Panama, Republica de Panama.



Ruins of Sto. Domingo Church, Panama City, showing the famous old Flat Arch.  
Ruinas del Convento de Santo Domingo, ciudad de Panamá, mostrando el famoso y antiguo arco chato.



Bird's Eye View of Taboga Island with village, Republic of Panama.  
Isla de Taboga con la aldea a vista de pajaro, Republica de Panama.



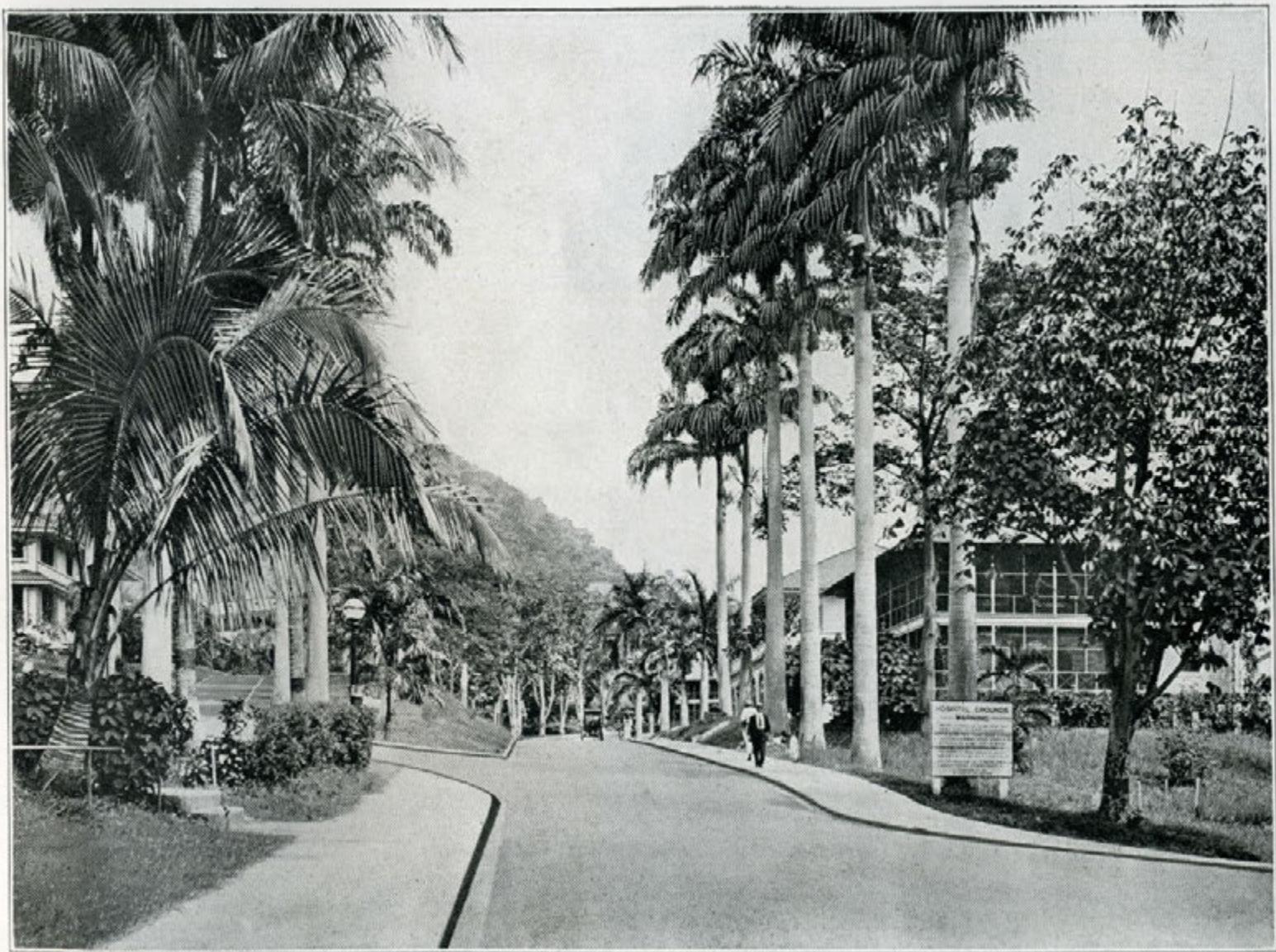
New Hospital Buildings. Ancon. Canal Zone.  
Nuevos edificios del Hospital, Ancon, Zona del Canal.



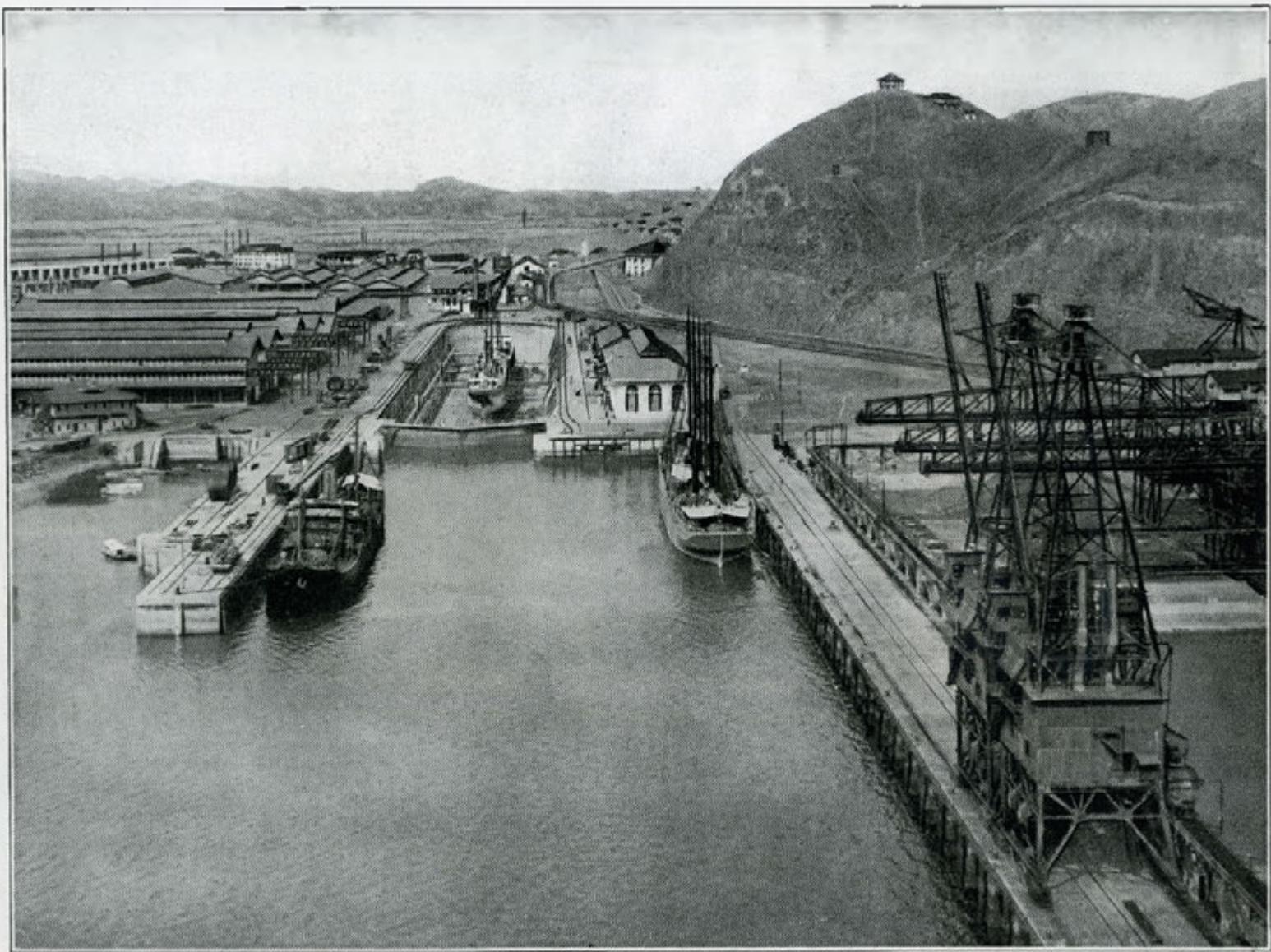
Ancon Hospital, New Administration Building, Panama Canal.  
Hospital Ancon, Nuevo edificio de administracion, Canal de Panama.



Royal Palms, Ancon, Canal Zone.  
Palmas reales, Ancon, Zona del Canal.



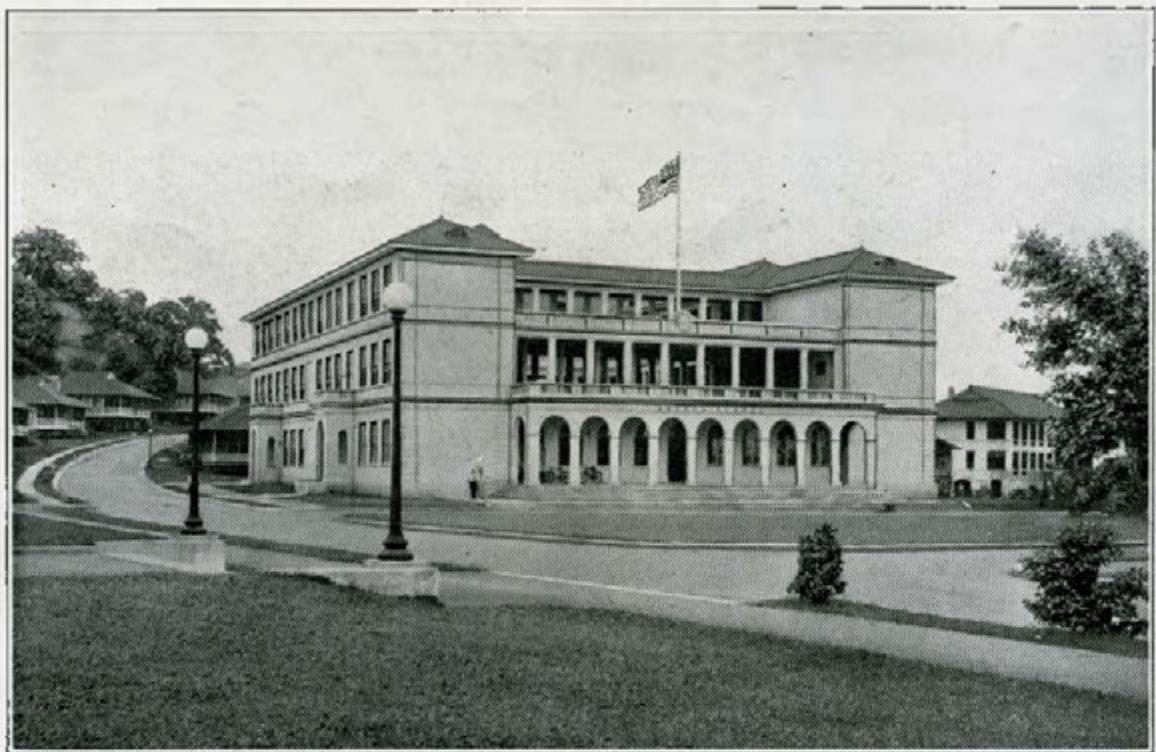
Palm Avenue, Hospital Grounds, Ancon, Canal Zone.  
Avenida de las Palmeras, terrenos del Hospital, Ancon, Zona del Canal.



Balboa Coaling Plant with dry docks in background, Panama Canal.  
Planta carbonera de Balboa con el Dique en el fondo, Canal de Panamá.



The "Prado," Balboa, Canal Zone, with Balboa High School in foreground.  
"El Prado." escuela publica en el fondo. Balboa, Zona del Canal.



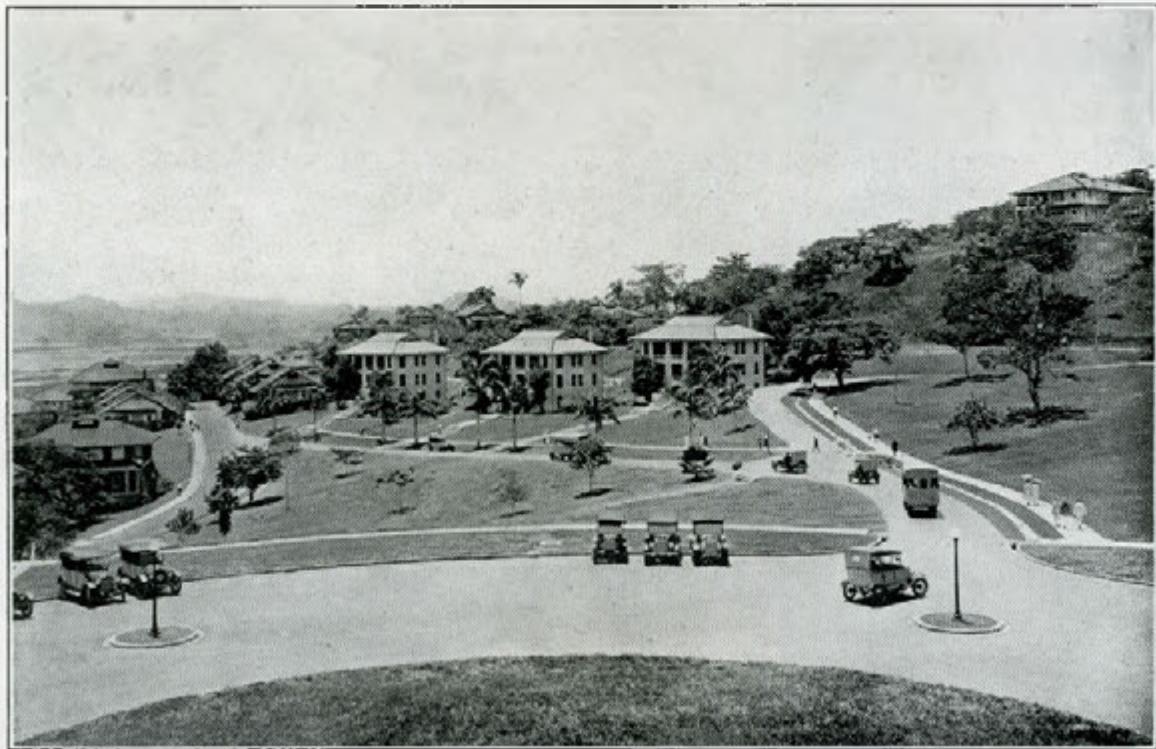
Balboa School, Balboa, Canal Zone.  
Escuela de Balboa, Palboa, Zona del Canal.



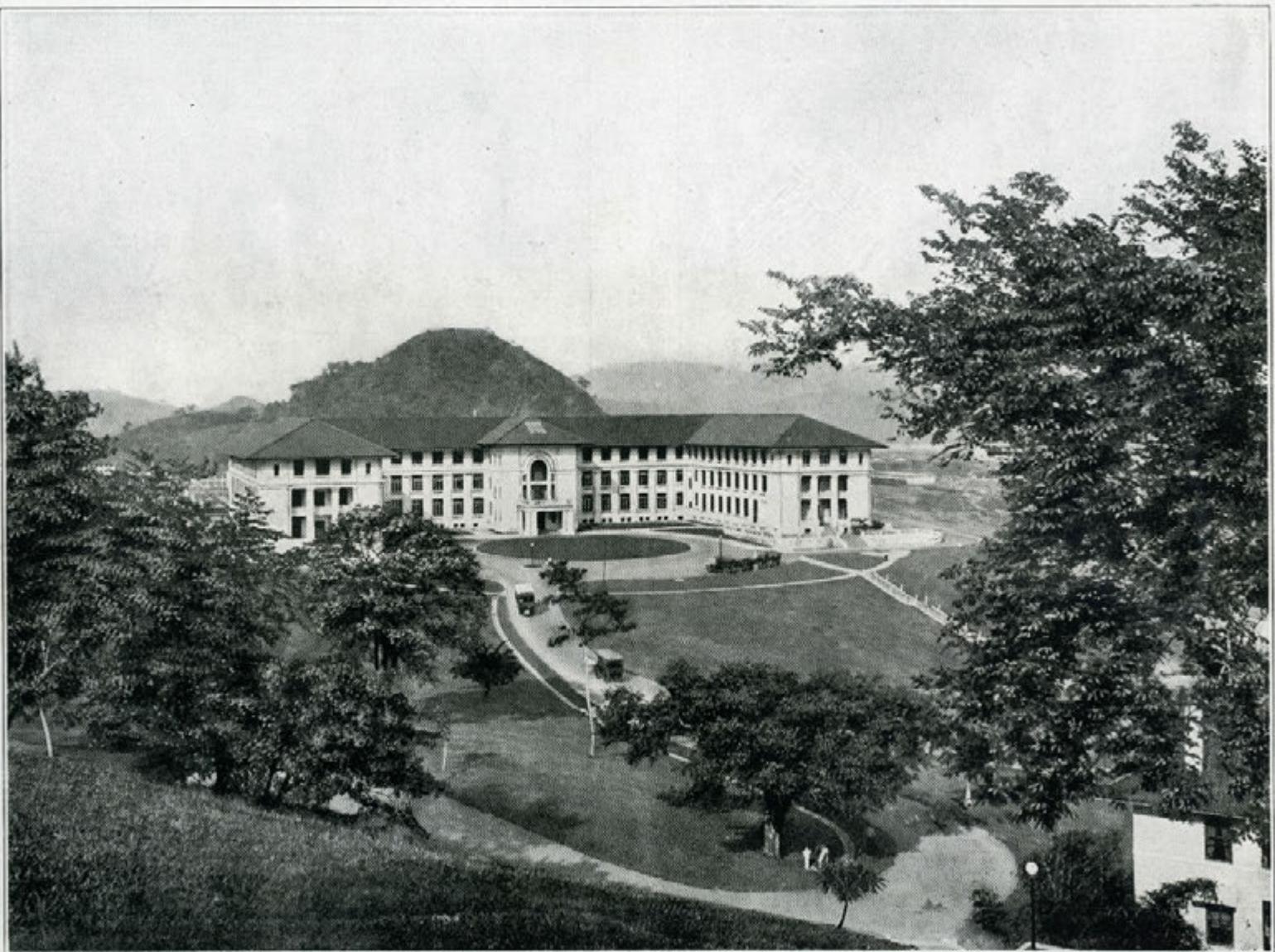
Panama Canal Club House, Balboa, Canal Zone.  
Edificio del Club Canal de Panamá, Balboa, Zona del Canal.



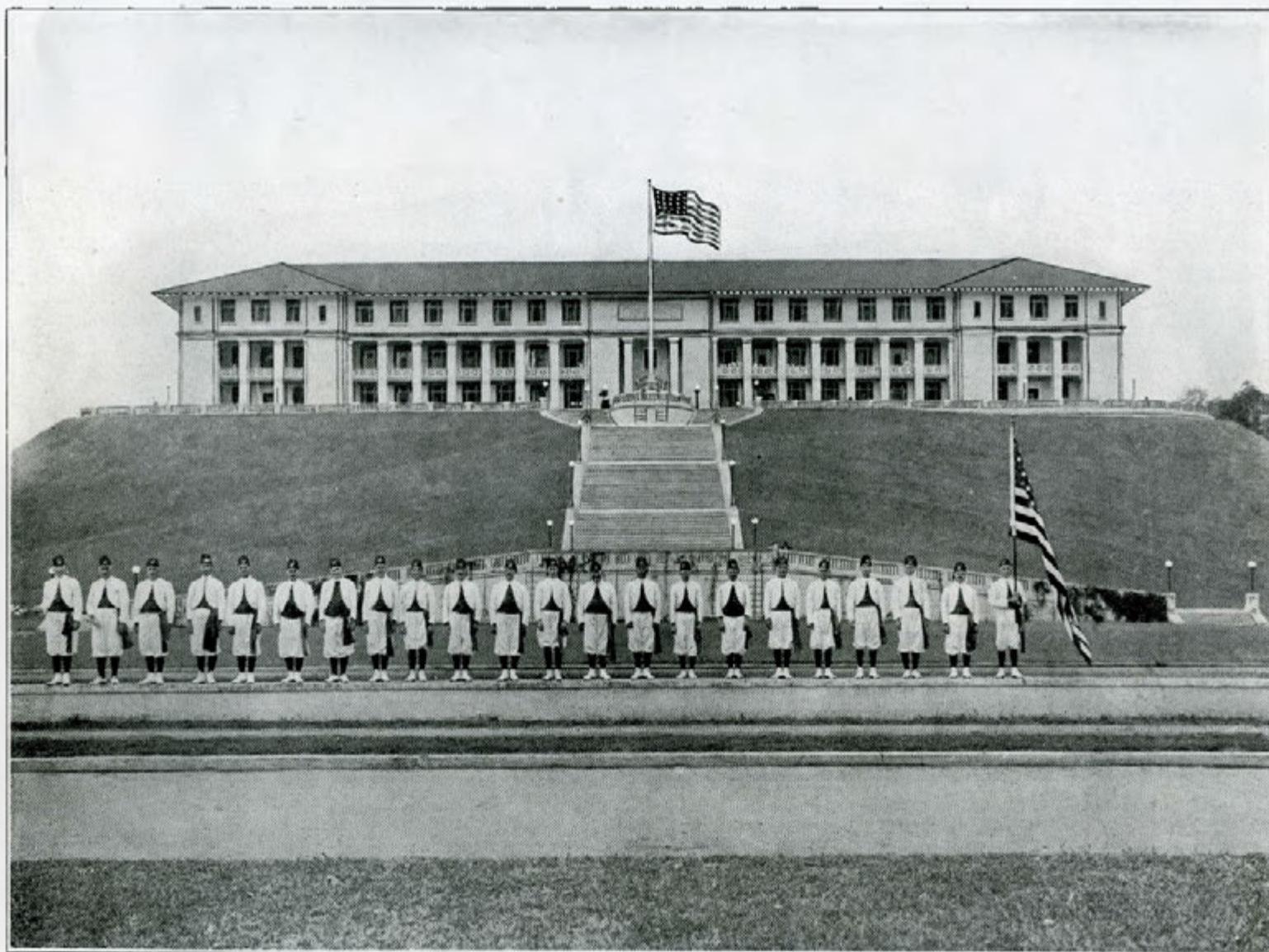
Panama Canal Commissary and Dispensary, Balboa, Canal Zone.  
Comisariato y Dispensario del Canal de Panamá, Balboa, Zona del Canal.



Street Scene and Employees Quarters, Balboa, Canal Zone.  
Residencias de Empleados, Balboa, Zona del Canal.



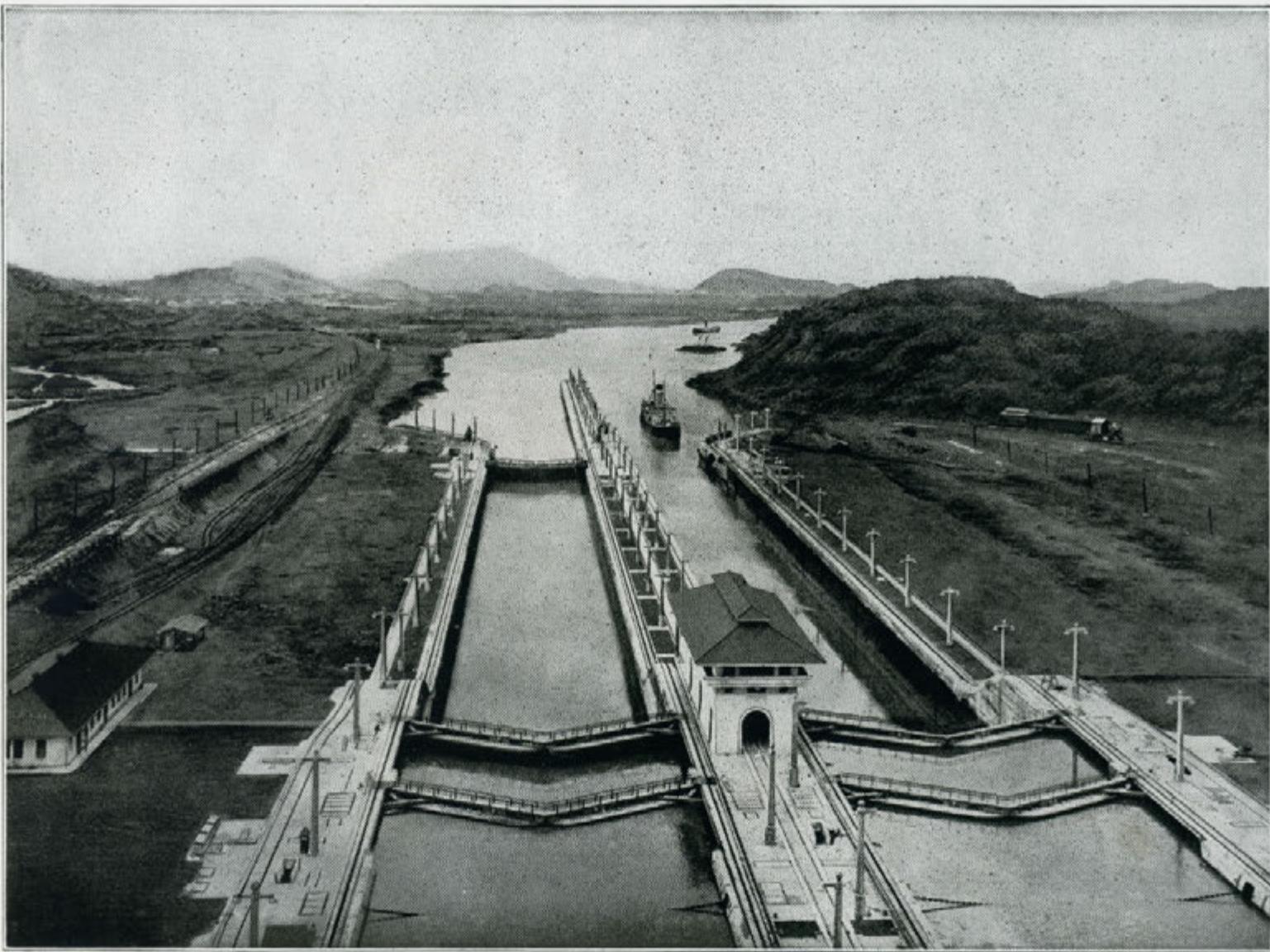
Panama Canal Administration Building, Rear View, Balboa, Canal Zone.  
Vista trasera del Edificio de Administración del Canal de Panamá, Balboa, Zona del Canal.



Canal Administration Building with Shriners in foreground, Balboa, C. Z.  
Edificio de Administración del Canal con los Shriners en el frente, Zona del Canal.

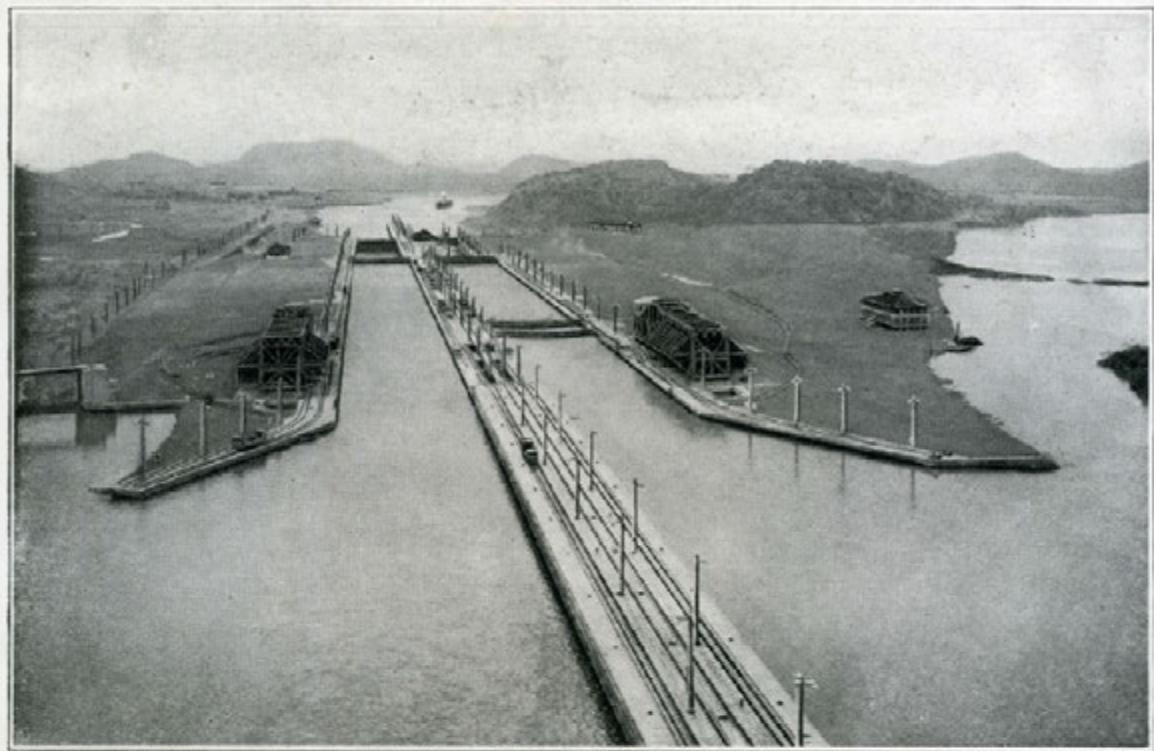


Employee's Quarters, Balboa, Canal Zone.  
Residencias de empleados, Balboa, Zona del Canal.

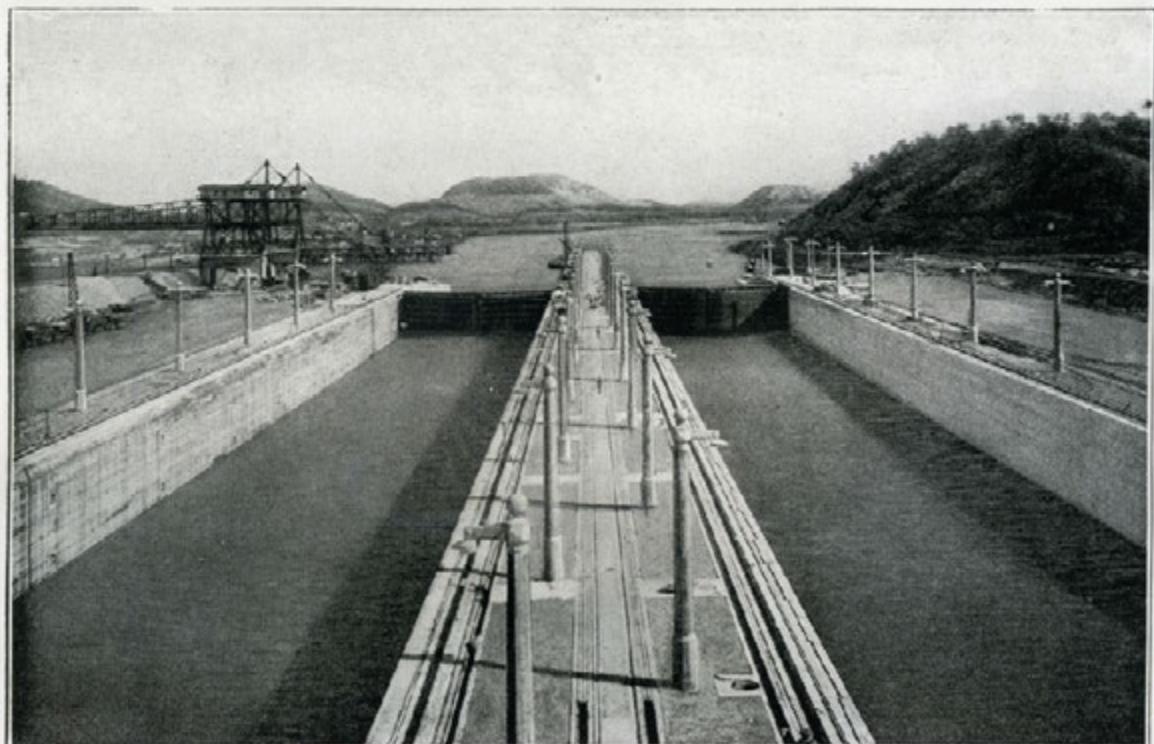


General View, Miraflores Locks, looking South, Panama Canal.  
Vista general de las exclusas de Miraflores, mirando hacia el Sur, Canal de Panama.

*Dawn big & rose up over Miraflores*



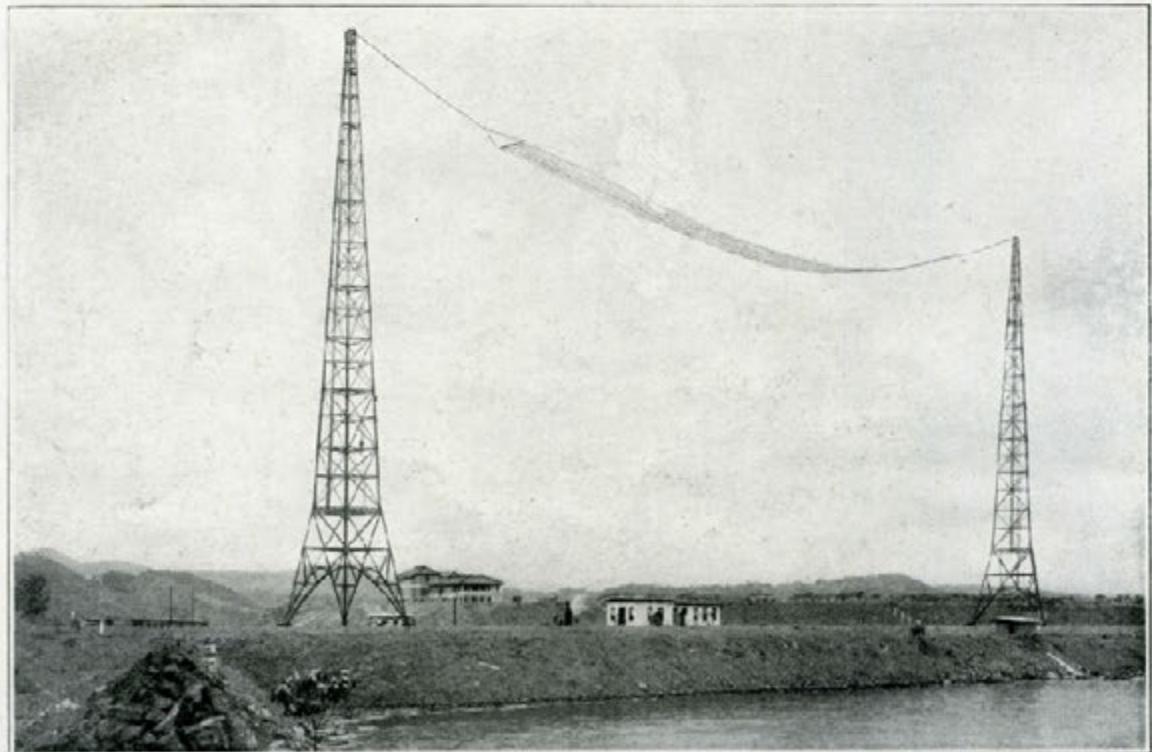
General View of Miraflores Locks, Panama Canal.  
Vista general de las exclusas de Miraflores, Canal de Panamá.



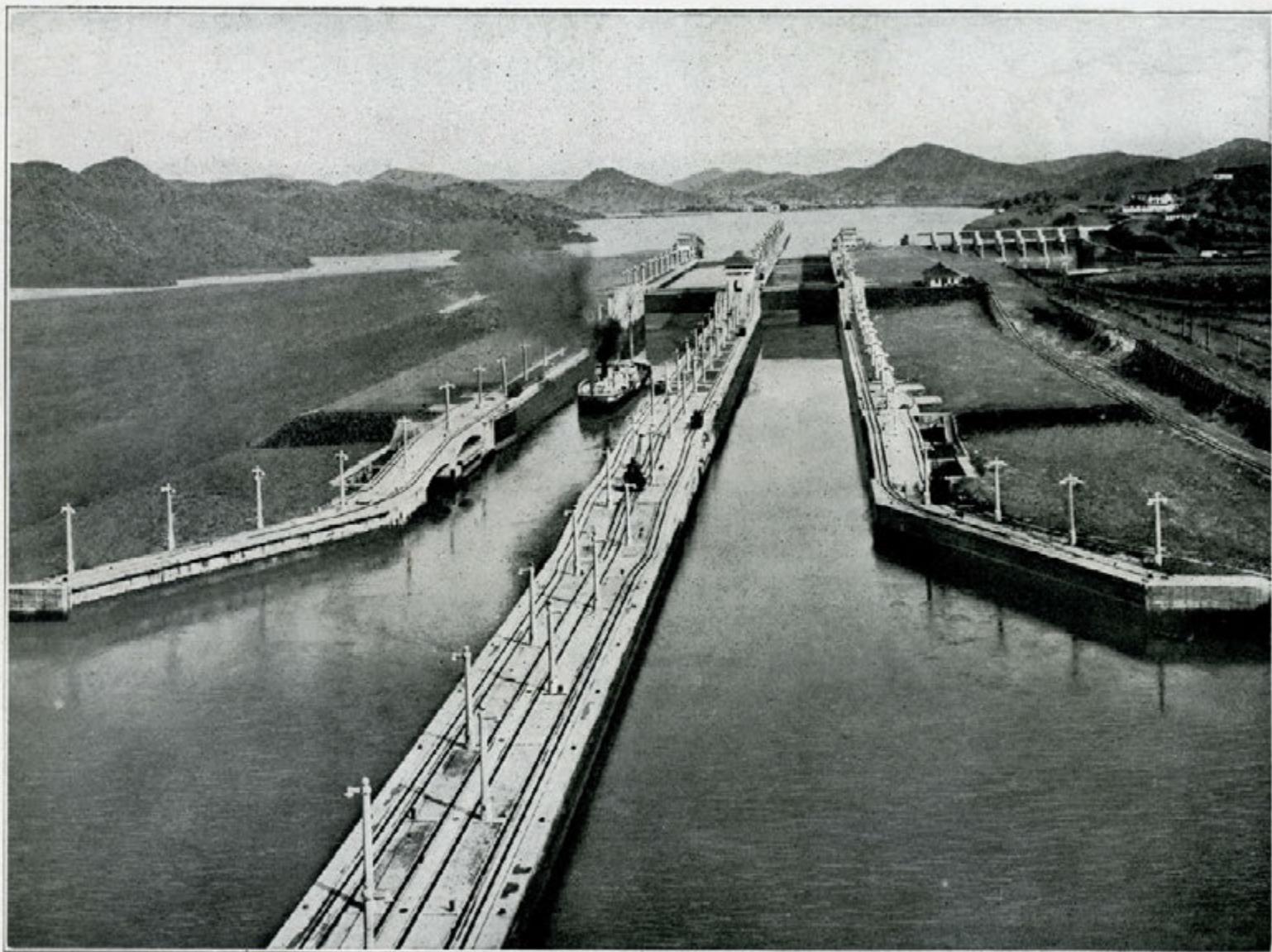
Lower Chamber, Miraflores Locks, Looking South, Panama Canal.  
Recamara inferior de las exclusas de Miraflores, mirando hacia el Sur. Canal de Panamá.



Pacific Terminal Office, Building and Port Captain's Office, Balboa, Canal Zone.  
Edificio de oficinas terminal del Pacífico y oficina del Capitán del Puerto, Balboa, Zona del Canal.



U. S. Naval Radio Station, Balboa, Canal Zone.  
Estación radiográfica naval de los E. E. U. U., Balboa, Zona del Canal.



General View of Miraflores Locks, looking North, Panama Canal.  
Vista general de las exclusas de Miraflores, mirando hacia el Norte, Canal de Panamá.

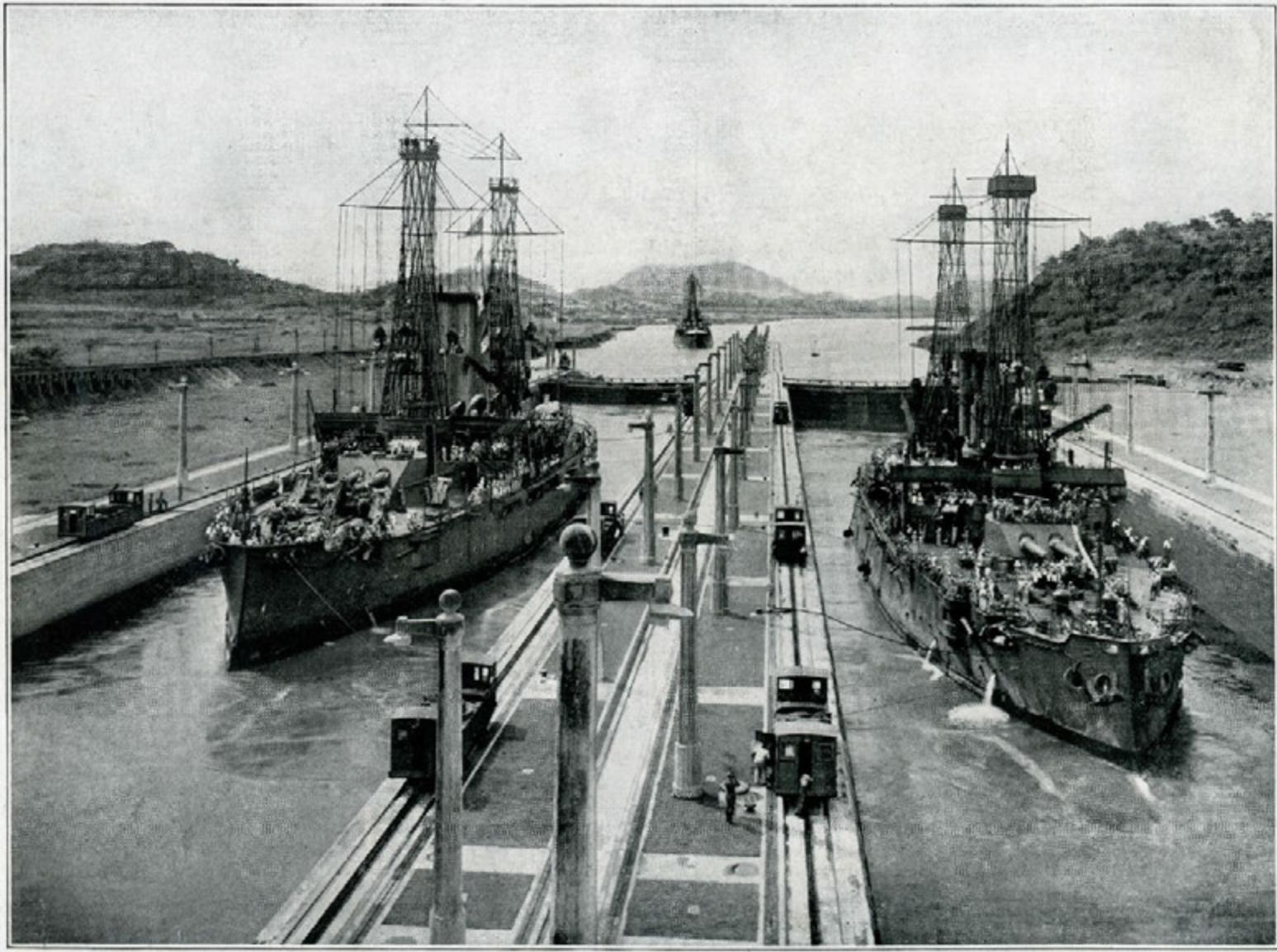
Miraflores Locks, looking North



Miraflores Spillway Dam, Panama Canal.  
Represa de desague de Miraflores, Canal de Panamá.

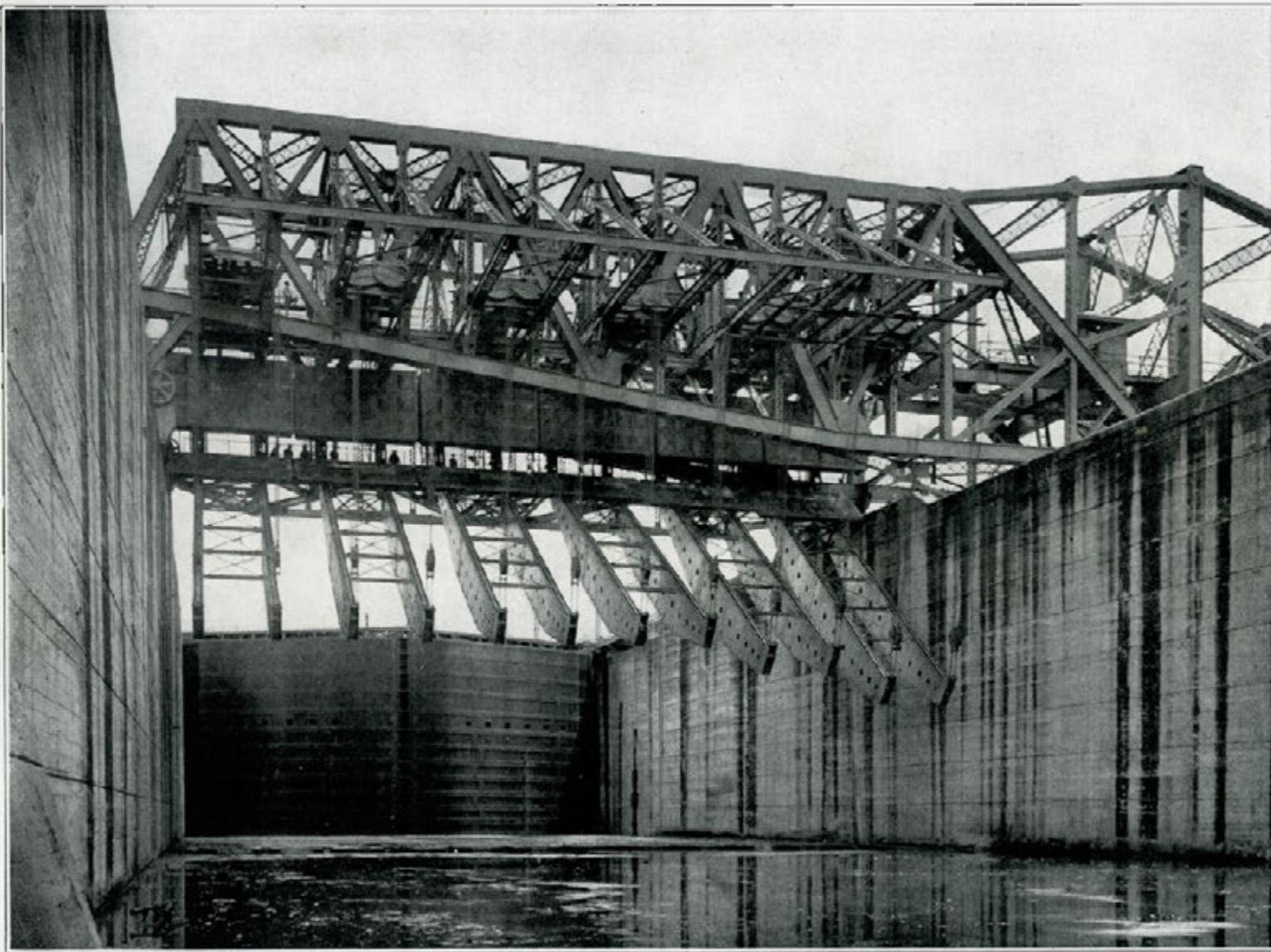


Filling upper Miraflores Lock, Panama Canal.  
Llenando la exclusa superior de Miraflores, Canal de Panamá.



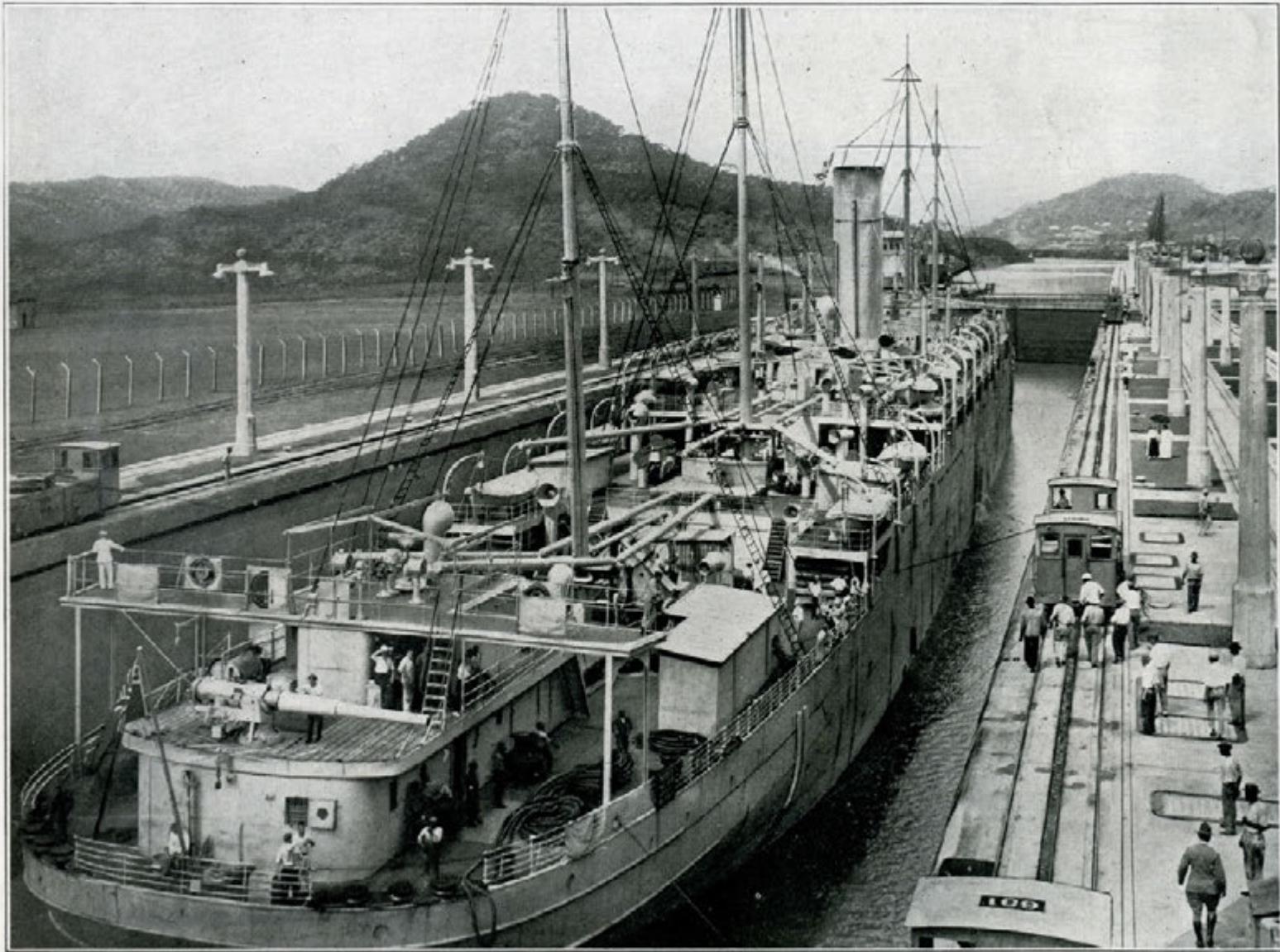
Two U. S. Battleships locking simultaneously in Pedro Miguel Locks, Panama Canal.  
Dos buques de guerra americanos atracando simultáneamente en las exclusas de Pedro Miguel, Canal de Panamá.

*Una aeronave en vuelo sobre el canal de Panamá*

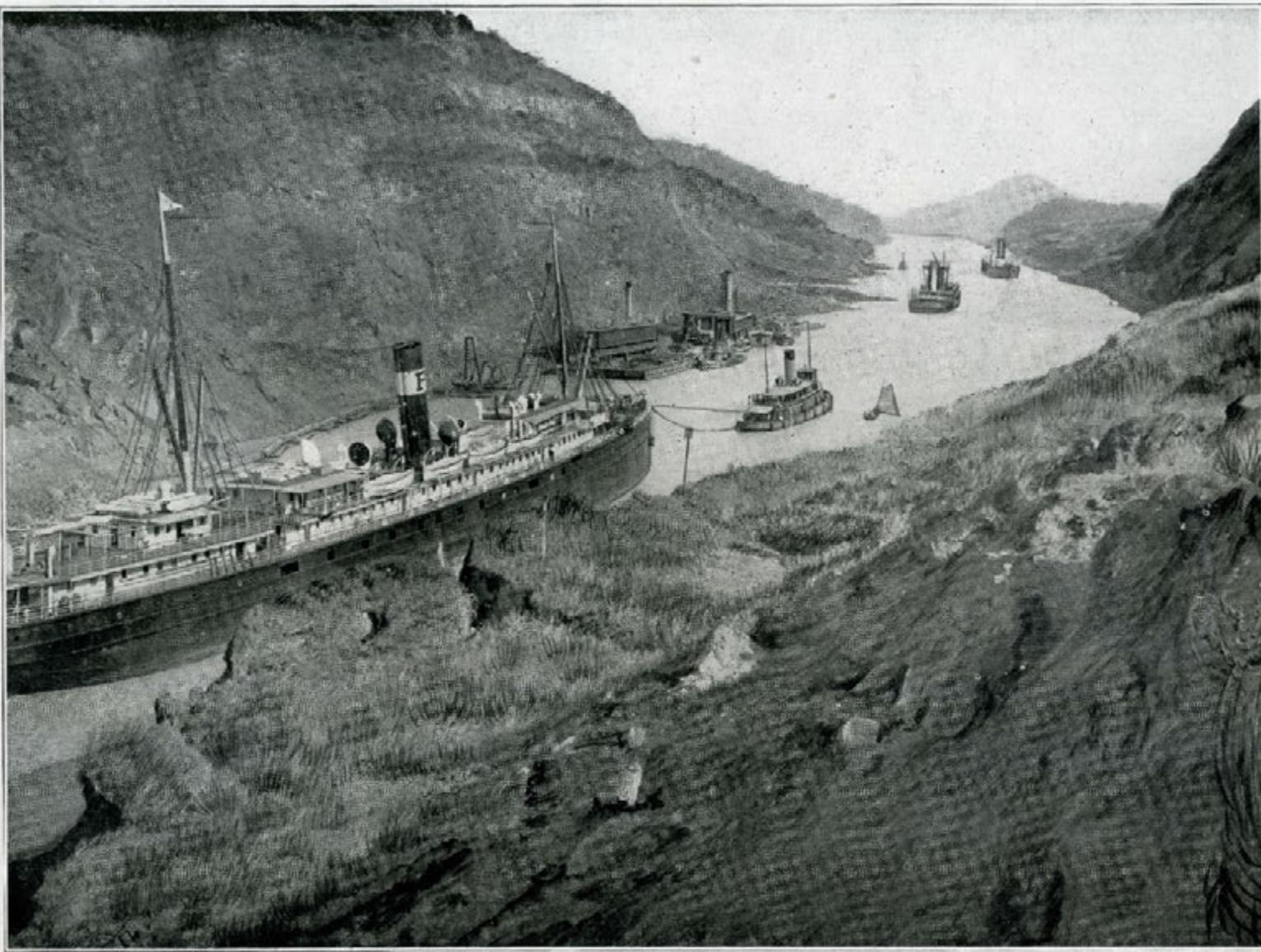


Testing Emergency Dam of Pedro Miguel Locks, Dam swung across Lock, Panama Canal.  
Probando la represa de emergencia de las exclusas de Pedro Miguel, Represa giratoria a través de la exclusa. Canal de Panamá.

Montaje zanacón encajón l pedro miguel (muelle)  
Montaje zanacón encajón



Armed Merchant Vessel passing Pedro Miguel Locks, Panama Canal.  
Vapor mercante armado pasando las exclusas de Pedro Miguel, Canal de Panamá.

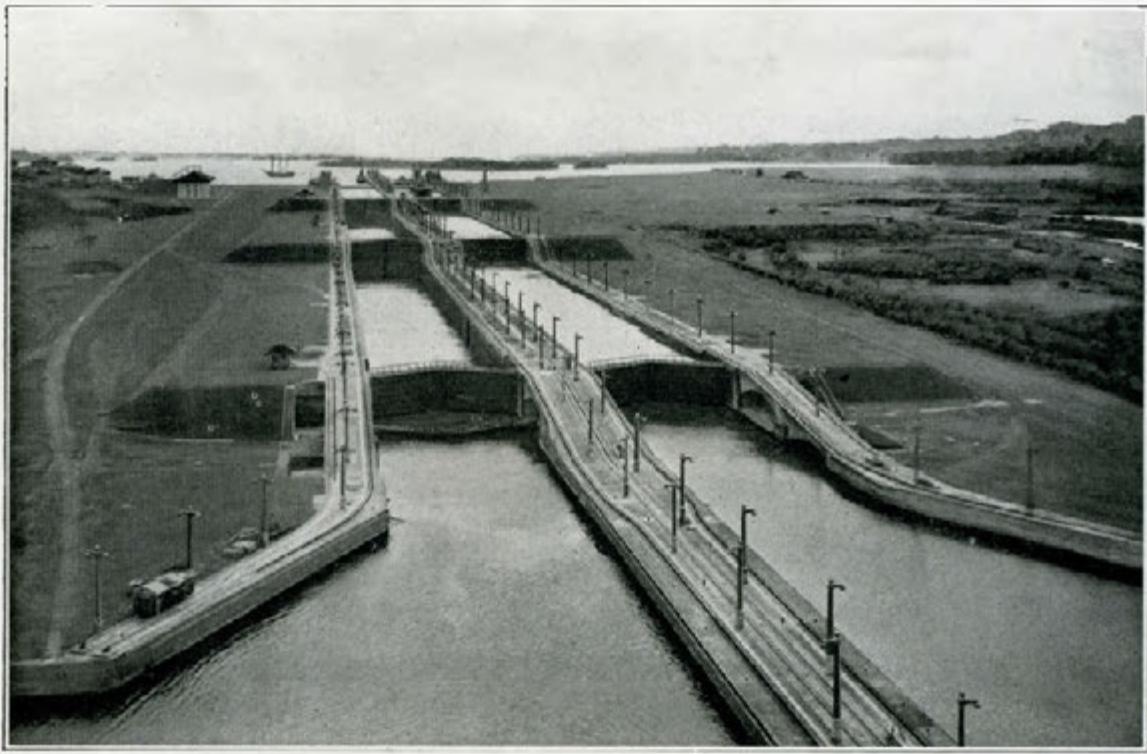


Culebra Cut showing Panama Railroad Steamer and other vessels passing Panama Canal.  
Corte de Culebra, mostrando vapores del ferrocarril y otros, pasando el Canal, Canal de Panamá.

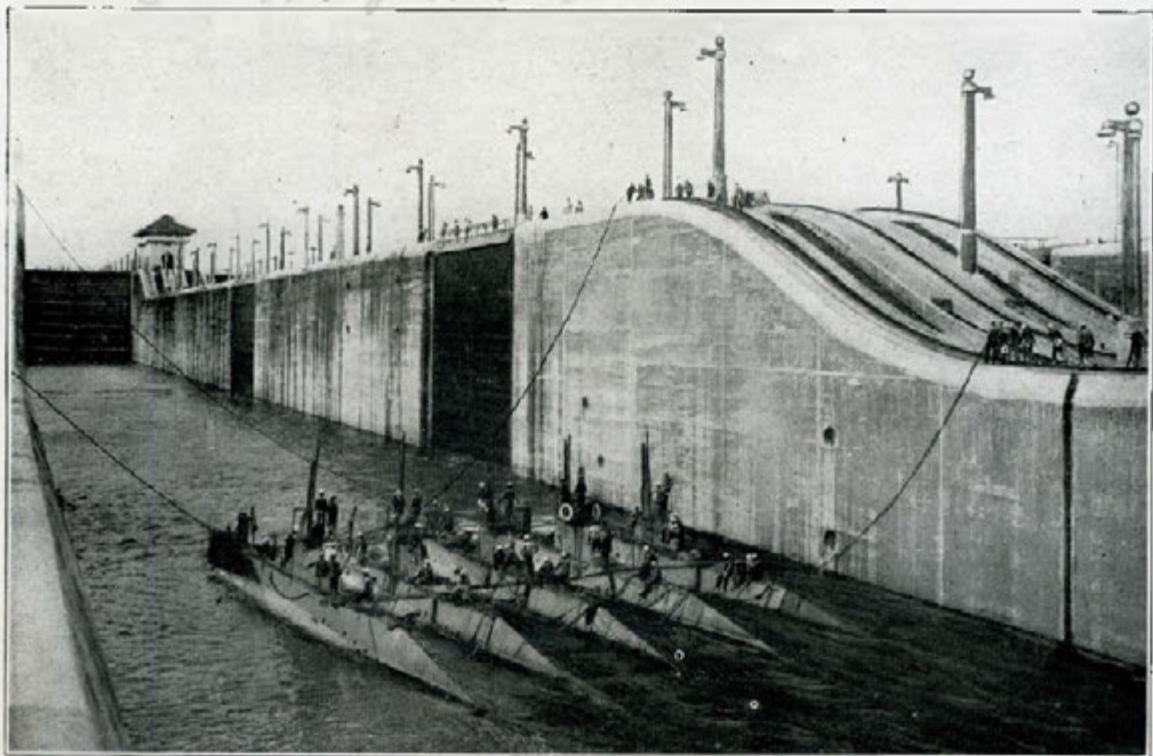
Compañía Nacional de Ferrocarriles del Centro Americano, 1899  
Cortesía de la Biblioteca Nacional de Panamá



Large Sailing Vessel passing through Culebra Cut, Panama Canal.  
Un gran buque velero pasando el corte de Culebra, Canal de Panamá.



General View of Gatun Locks, Looking South, Panama Canal.  
Vista general de las exclusas de Gatun mirando hacia el Sur. Canal de Panamá.



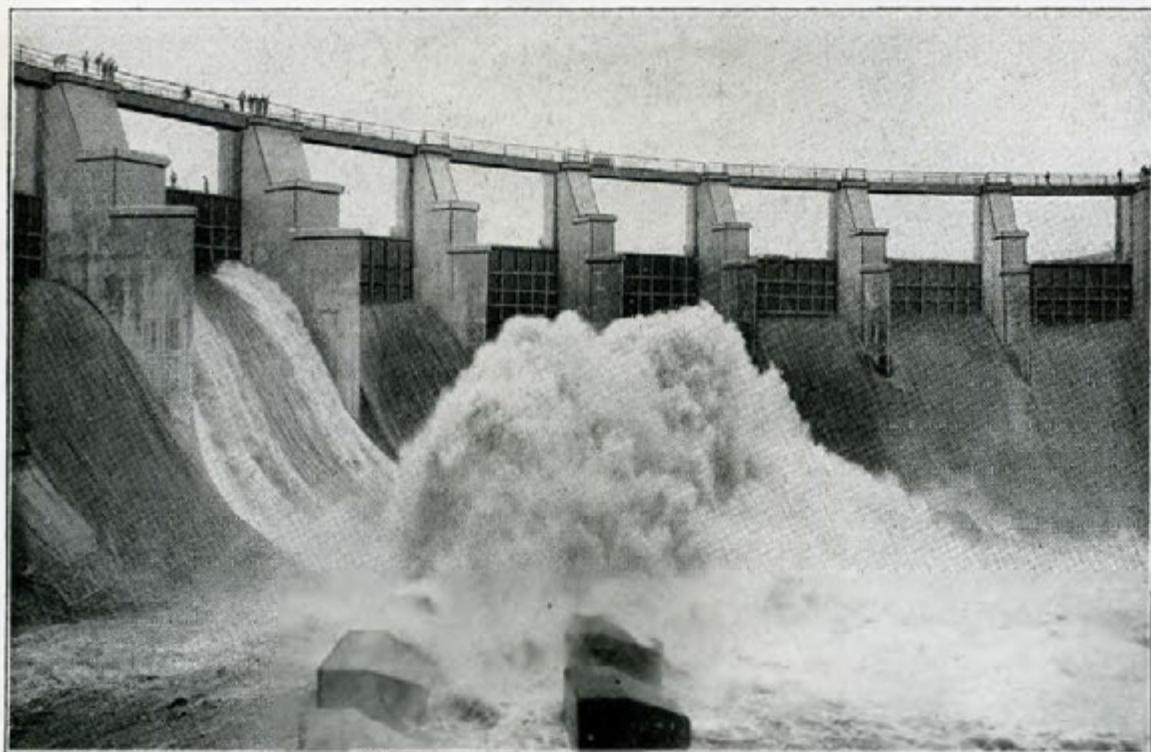
U. S. "C" Class Submarines in Gatun Locks, Panama Canal.  
Submarinos americanos clase "C" en las exclusas de Gatun, Canal de Panamá.



Gatun Locks by Moonlight. Panama Canal.  
Exclusas de Gatun en noche de luna. Canal de Panamá.



U. S. Warship passing Culebra Cut, Panama Canal.  
Vapor de guerra Americano pasando el corte de Culebra.



Gatun Spillway in Operation, Panama Canal.  
Desague de Gatun funcionando, Canal de Panamá.



Steamer passing through Culebra Cut, Panama Canal.  
Vapor pasando el corte de Culebra, Canal de Panamá.



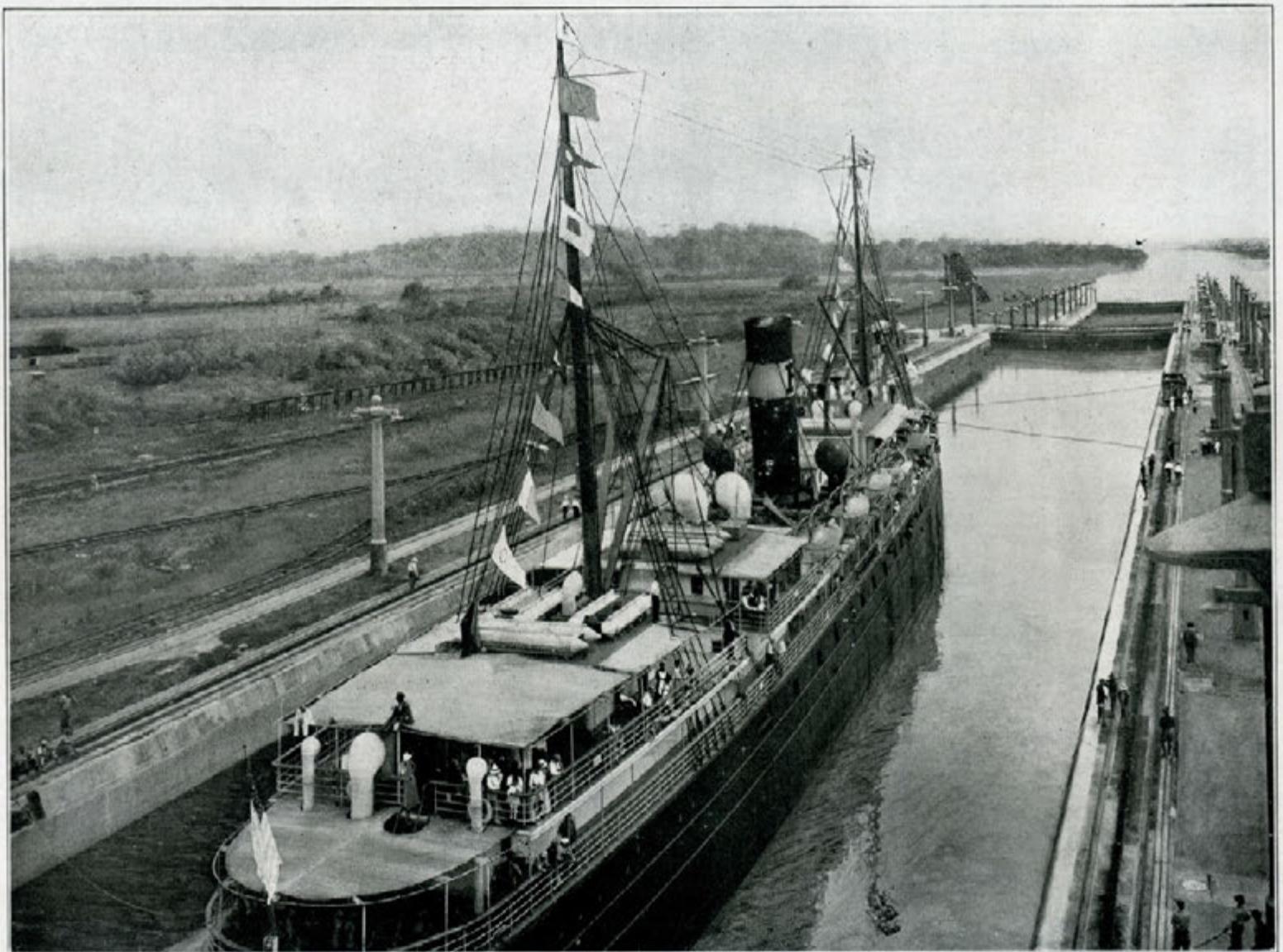
Australian troops returning from France, passing through Gatun Locks, Panama Canal.

Tropas australianas de regreso de Francia pasando las exclusas de Gatun, Canal de Panamá.

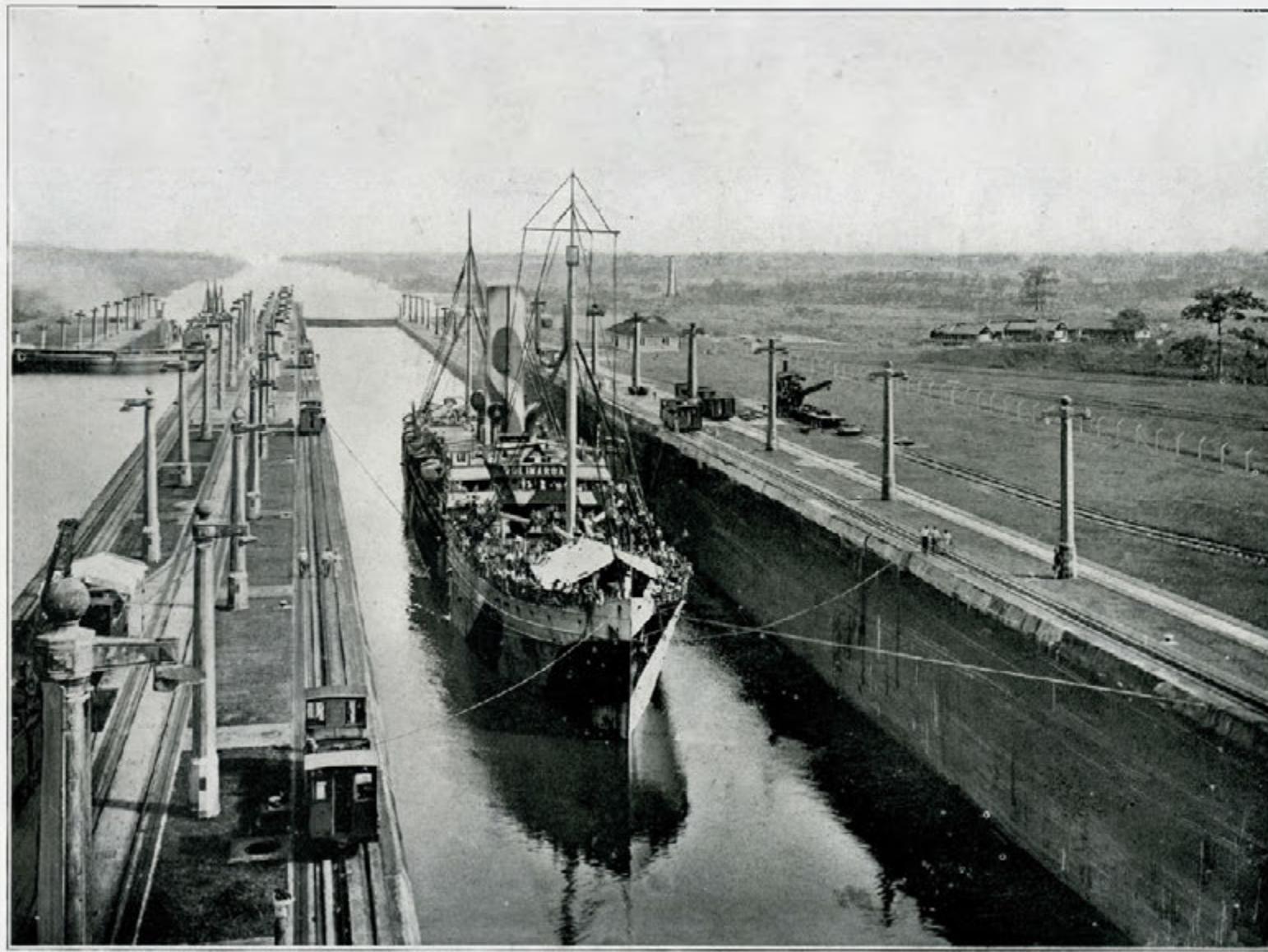


Australian troops back from France passing through Gatun Locks, Panama Canal.

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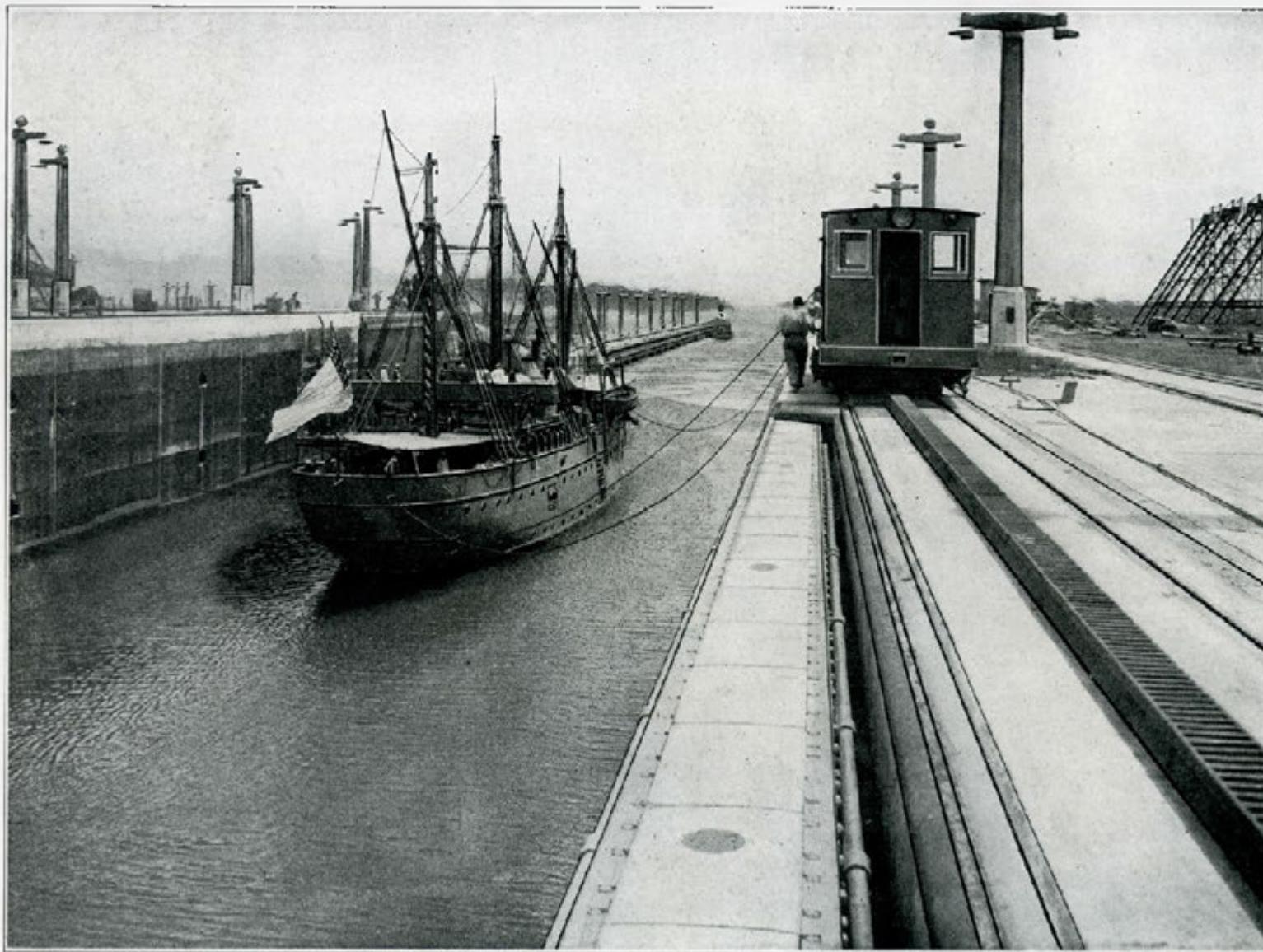


Panama Railroad Steamer passing through Gatun Locks, Panama Canal.  
Vapor del Ferrocarril de Panamá pasando las exclusas de Gatún, Canal de Panamá.



Hospital Ship with wounded New Zealanders passing through Gatun Locks, Panama Canal.  
Vapor hospital con heridos neozelandeses pasando las exclusas de Gatun, Canal de Panamá, en vía para Nueva Zelanda.

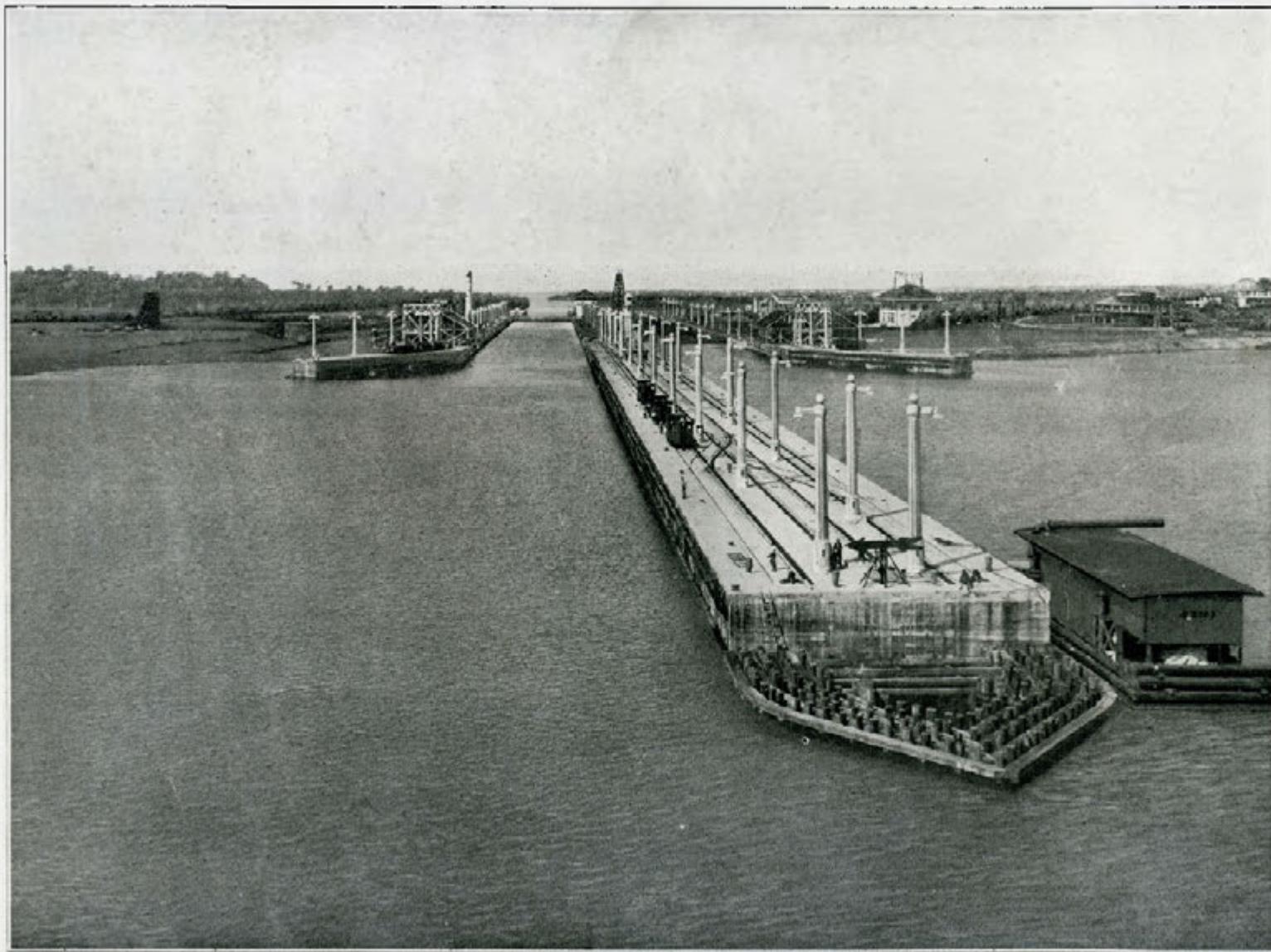
*Tanquem en el vapor e pasillo en el tren que viene de Panamá*



Submarine Tender "Severn" being towed through Gatun Locks by Electric Locomotive (Mule) Panama Canal.  
Remolcador de Submarinos "Severn" remolcado por Hilanderas Electricas en las exclusas de Gatun, Canal de Panama.



Street Scene, Gatun, Canal Zone.  
Escena en una calle de Gatun, Zona del Canal.



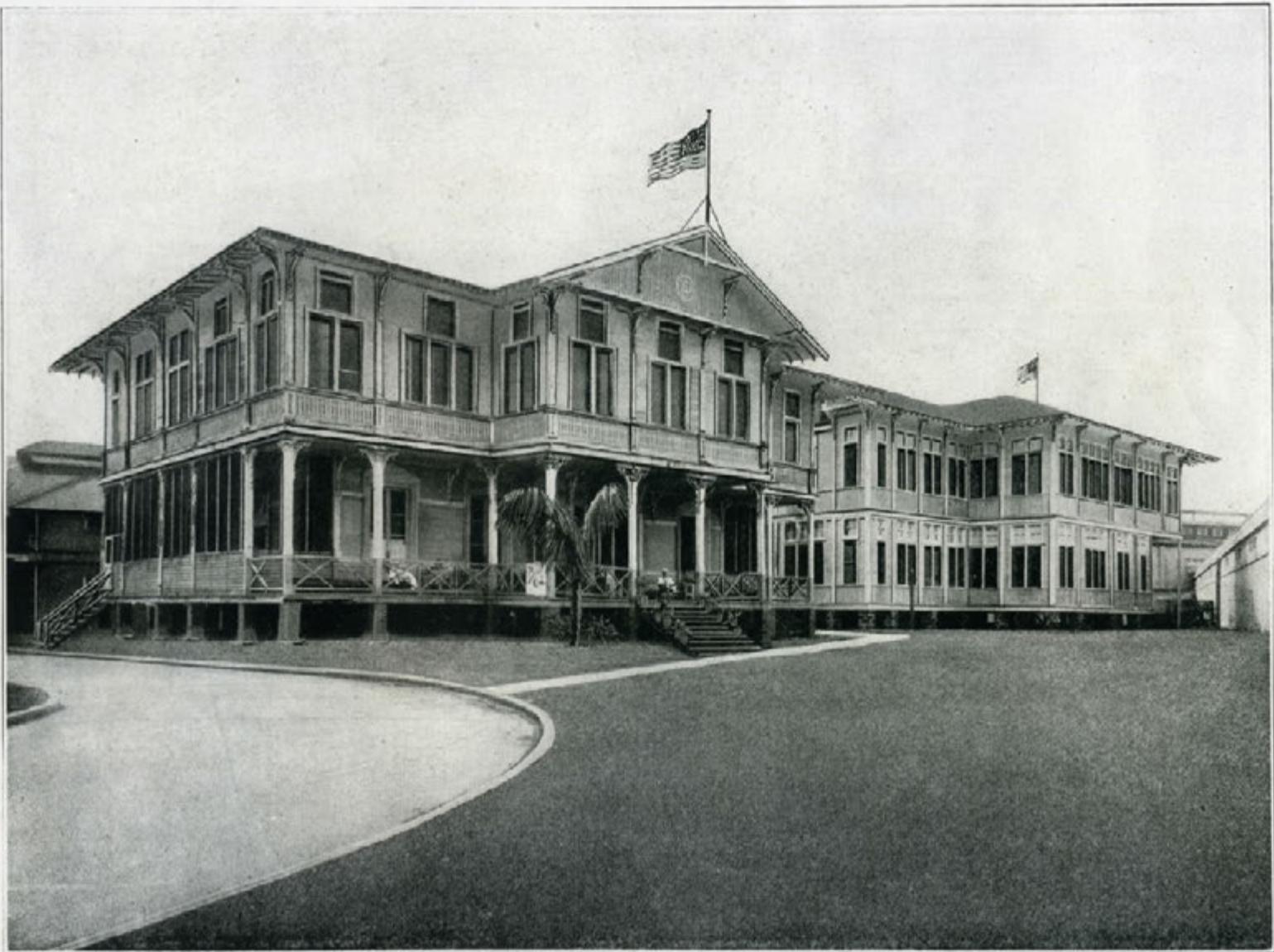
South approach Wall to Gatun Locks, Panama Canal.  
Muro de acercamiento por el lado sur a las exclusas de Gatun, Canal de Panamá.



Panama Canal Club House, Cristobal, Canal Zone.  
Edificio del club Canal de Panamá, Cristobal, Zona del Canal.



Naval Headquarters, Atlantic Division, Cristobal, Canal Zone.  
Cuartel General Naval, Division del Atlántico, Cristobal, Zona del Canal.



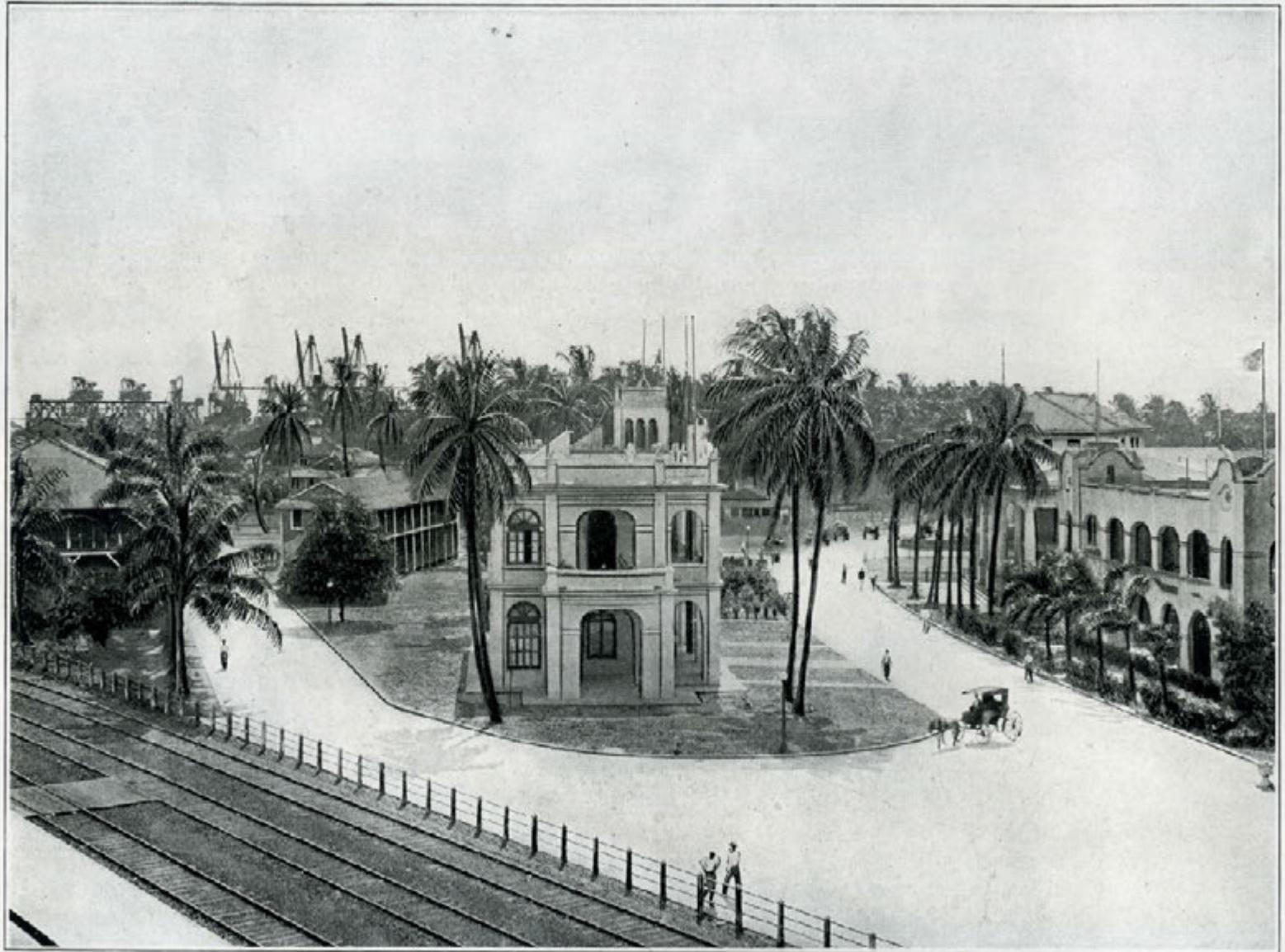
Army and Navy Y. M. C. A., Cristobal, C. Z.  
Club del Ejercito y la Marina, Cristobal, Zona del Canal.



Bird's Eye View of Cristobal from Aeroplane, Rep. of Panama.  
Cristobal a vista de pajaro, Zona del Canal, tomado de un aeroplano.



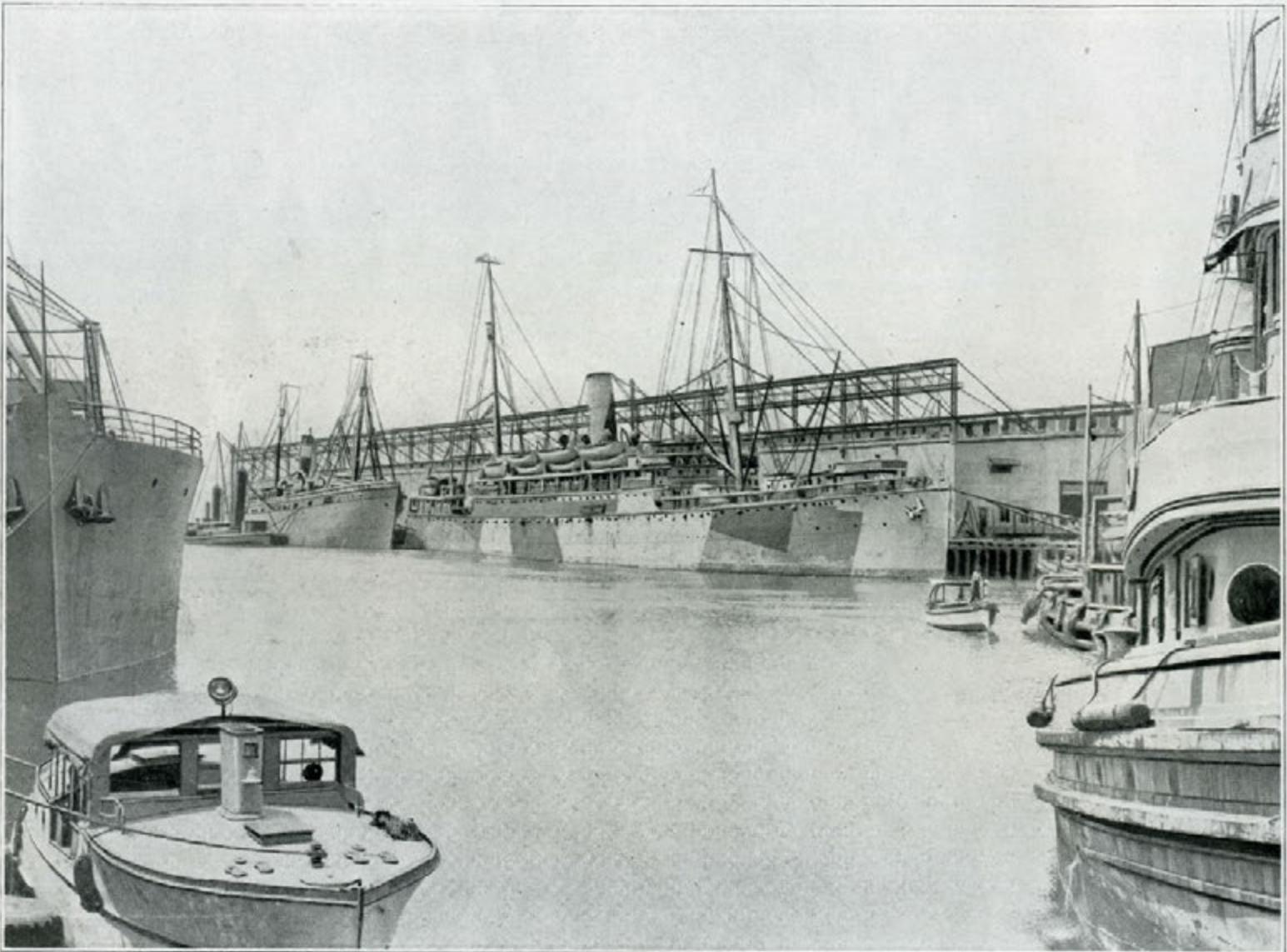
Piers 7 and 8, Cristobal, Canal Zone.  
Muelles 7 y 8, Cristobal, Zona del Canal.



Late View of Cristobal, Canal Zone, showing Concrete Steamship Offices.  
Vista reciente de Cristobal, Zona del Canal, mostrando oficinas de agencias de vapores construidas de hormigon.



Atlantic Terminal Coal Plant, the largest of its kind in the world, Cristobal, Canal Zone.  
Planta carbonera terminal del Atlántico, la más grande del mundo en su clase. Cristobal, Zona del Canal.



Pier 8, Cristobal, Canal Zone.  
Muelle 8, Cristobal, Zona del Canal.



Cristobal, Canal Zone, with Piers 7, 8 and 9 in background.  
Cristobal, Zona del Canal, con los Muelles 7, 8 y 9 al fondo.



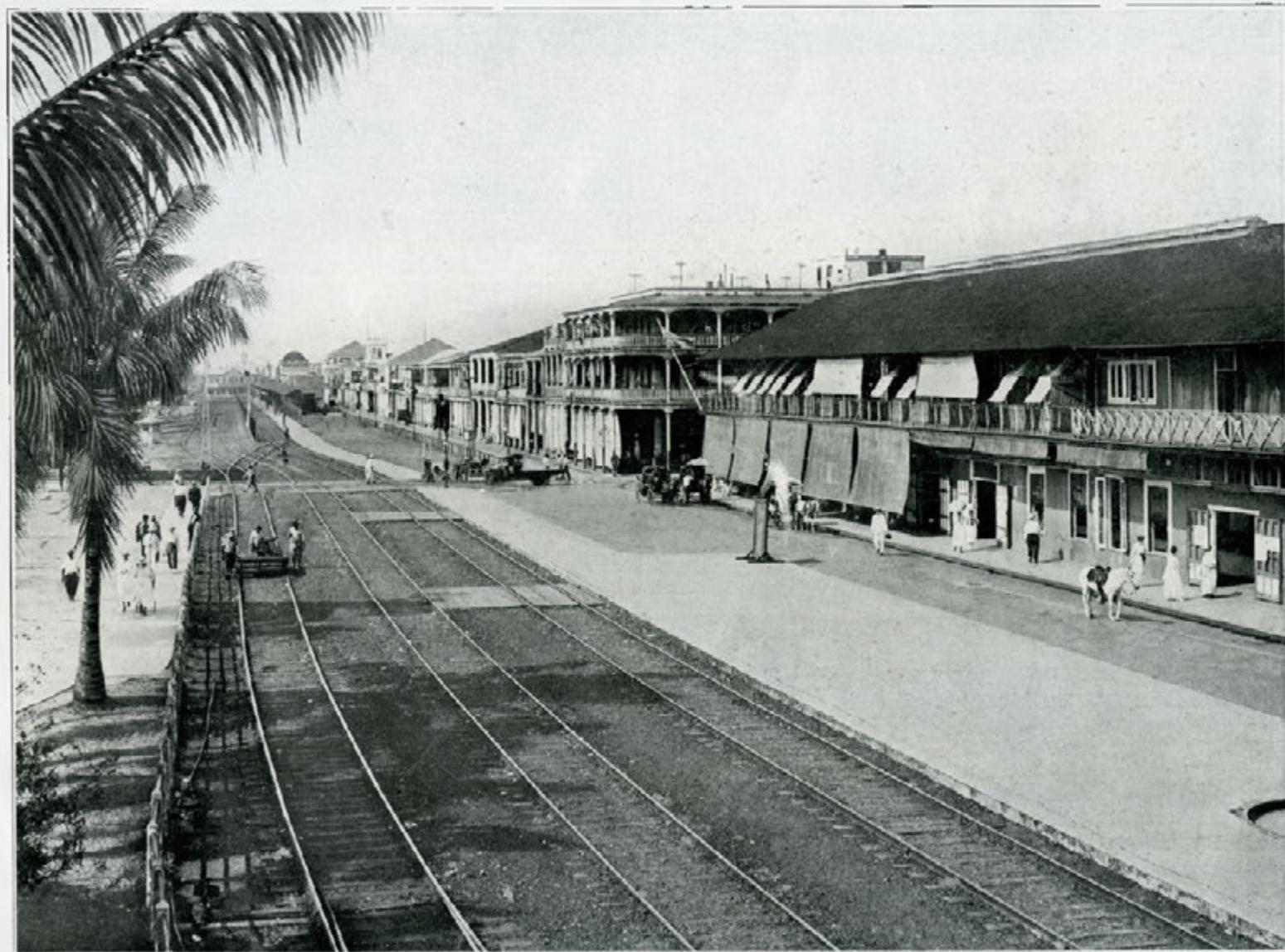
Street in New Cristobal, Canal Zone.  
Calle en Nueva Cristobal, Zona del Canal.



Dropping 25 ton Concrete Blocks into Limon Bay. These blocks form the Foundation of the Breakwater, Panama Canal.  
Echando trozos de hormigon de 25 toneladas en la bahia de Limon. Estos trozos forman la fundacion del rompe olas, Canal de Panama.



Panama Canal Hospital, Colon, R. P.  
Hospital del Canal de Panama, Colon, R. de P.



Front St., Colon, taken from Cristobal, showing P. R. R. Commissary.  
Calle del Frente, Colon, tomada de Cristobal, mostrando el Comisariato de la Compañía del Ferrocarril de Panamá.



Washington Hotel, Colon, R. P.  
Hotel Washington, Colon, R. de P.



Front Street, Colon, looking South, Republic of Panama.  
Calle del Frente, Colón, Republica de Panama.



Broadway, Colon, Rep. of Panama, showing Cottages.  
Calle Broadway mostrando viviendas, Colon, R. de P.



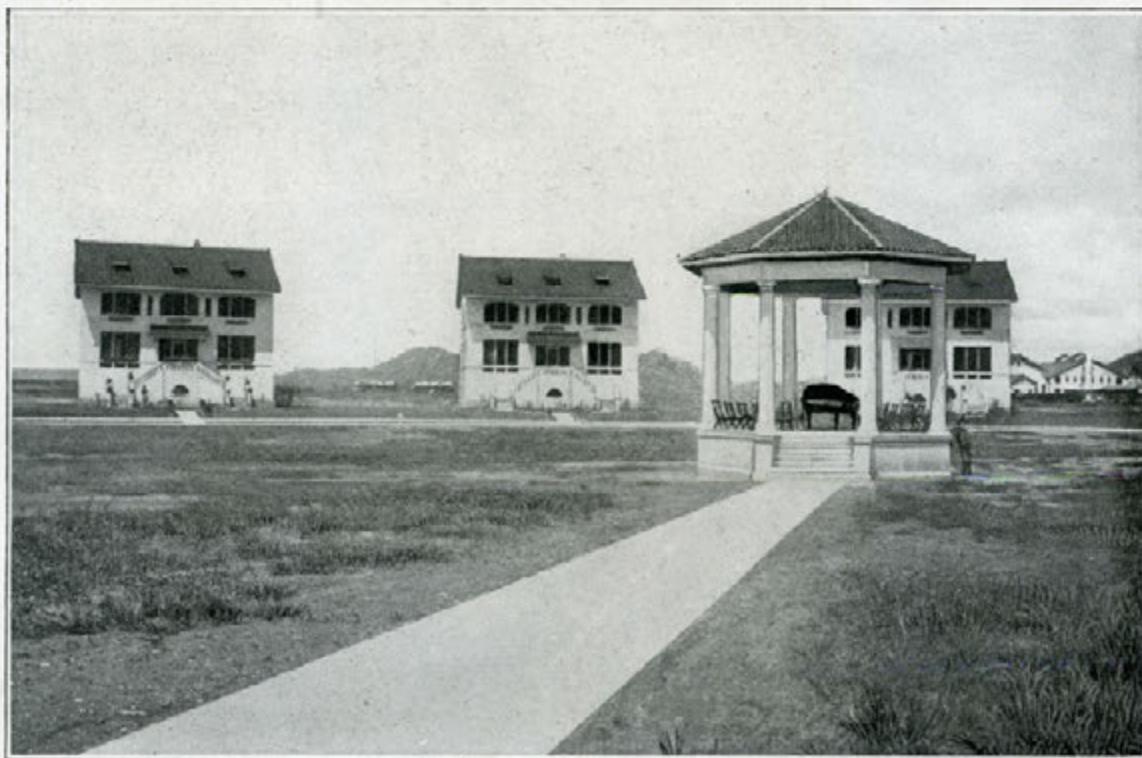
Native Huts in the village of Taboga, Taboga Island, Rep. of Panama.  
Chozas nativas en el pueblo de Taboga, Isla de Taboga, Rep. de Panamá.



Interior of Panama Canal Employee's Residence, Canal Zone.  
Interior de una residencia de un empleado del Canal, Zona del Canal.



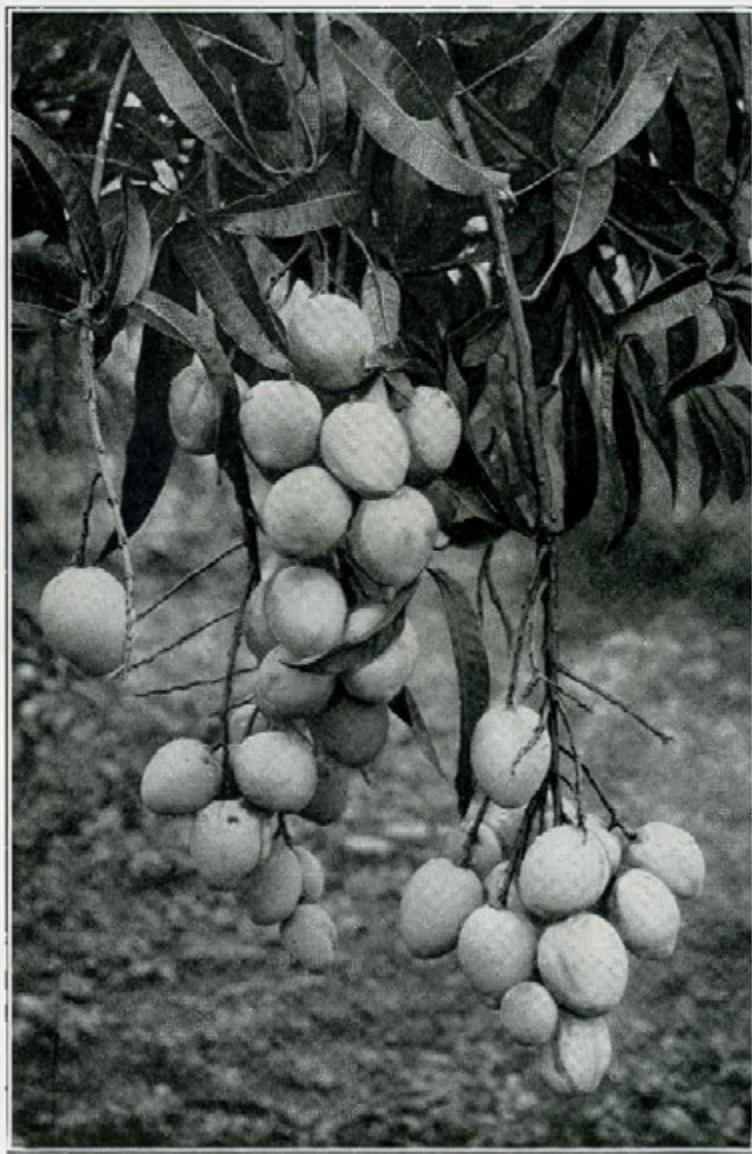
Company Barracks, Fort Grant, Canal Zone.  
Cuartel de Compañía, Fuerte Grant, Zona del Canal.



Concrete Officers' Quarters and Band Stand, Fort Amador, Canal Zone.  
Residencia de oficiales y kiosko de banda de hormigón, Fuerte Amador, Zona del Canal.



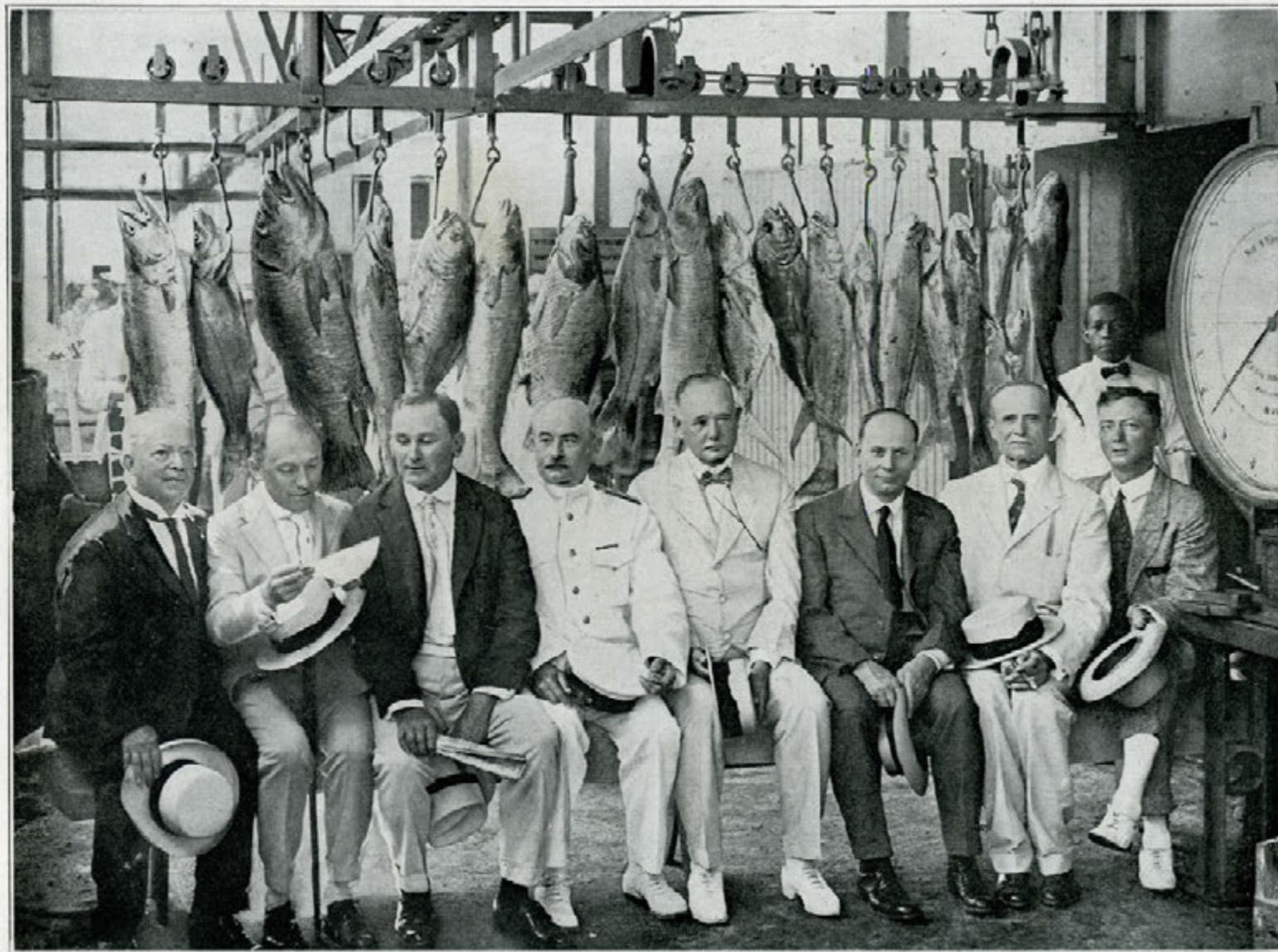
Mount Hope Purification Plant, Mount Hope, Canal Zone.  
Planta purificadora de Mount Hope, Mount Hope, Zona del Canal.



A Bunch of Mangoes, Panama, Rep. of Panama.  
Racimo de Mangos, Panama, Rep. de Panama.



Washington Hotel with Statue of Columbus which was presented to Panama  
by the Empress Eugenie, Colon, R. P.  
Hotel Washington, con la estatua de Cristóbal Colón [a cual fue regalada a la  
República de Panamá por la Emperatriz Eugenia, Colon, República de Panamá.]



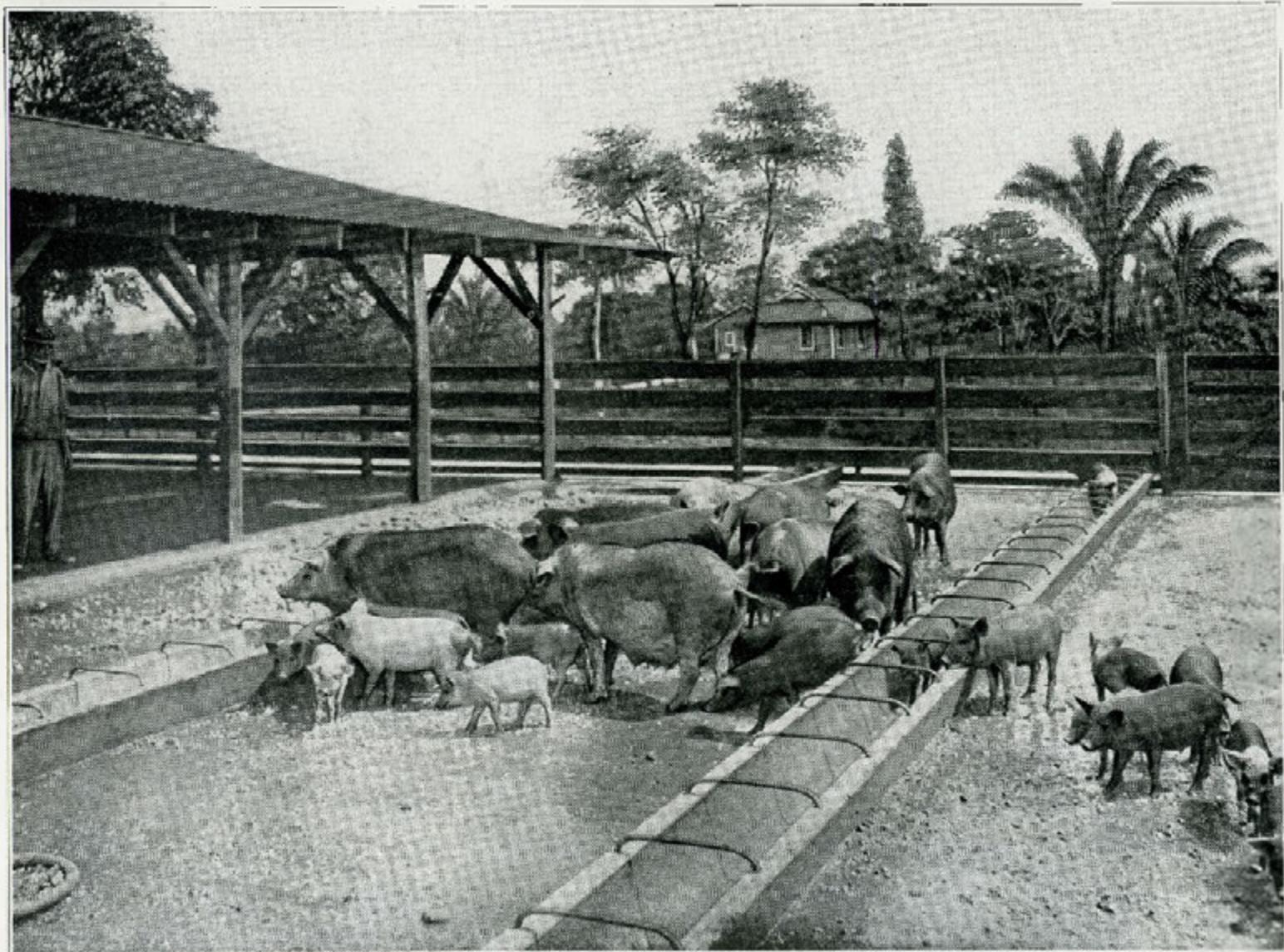
"Panama" is the Indian word for "Fish." This picture bears out the correctness of the name.

"Panama" equivale en dialecto indígena a "Pez." Esta fotografía justifica la exactitud de este nombre.

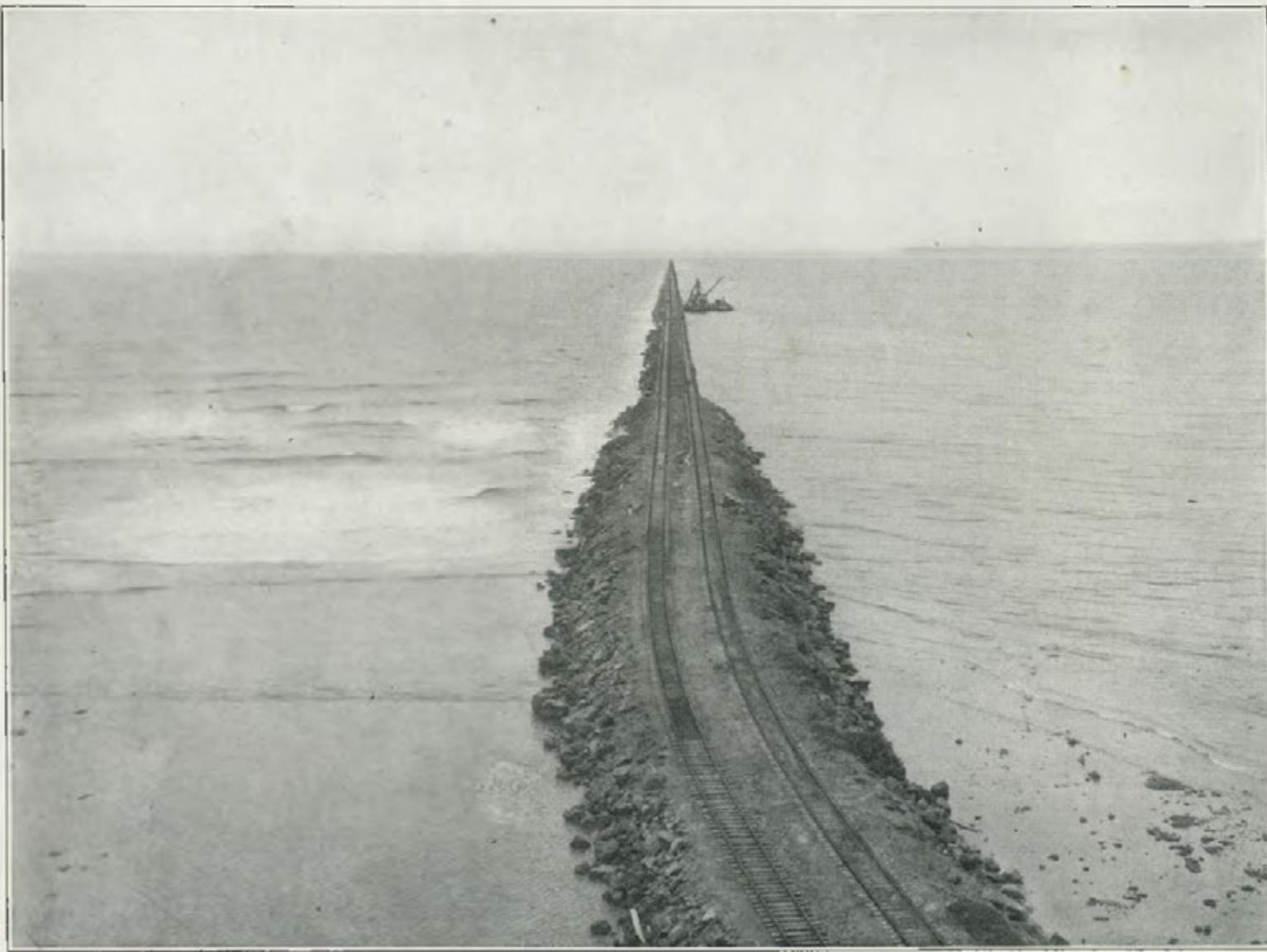
Peces cejidos en aguas panamenas por un grupo de congresistas americanos durante una visita a Panamá.



Native Village in the interior of the Republic of Panama.  
Aldea nativa en el interior de la Republica de Panama.



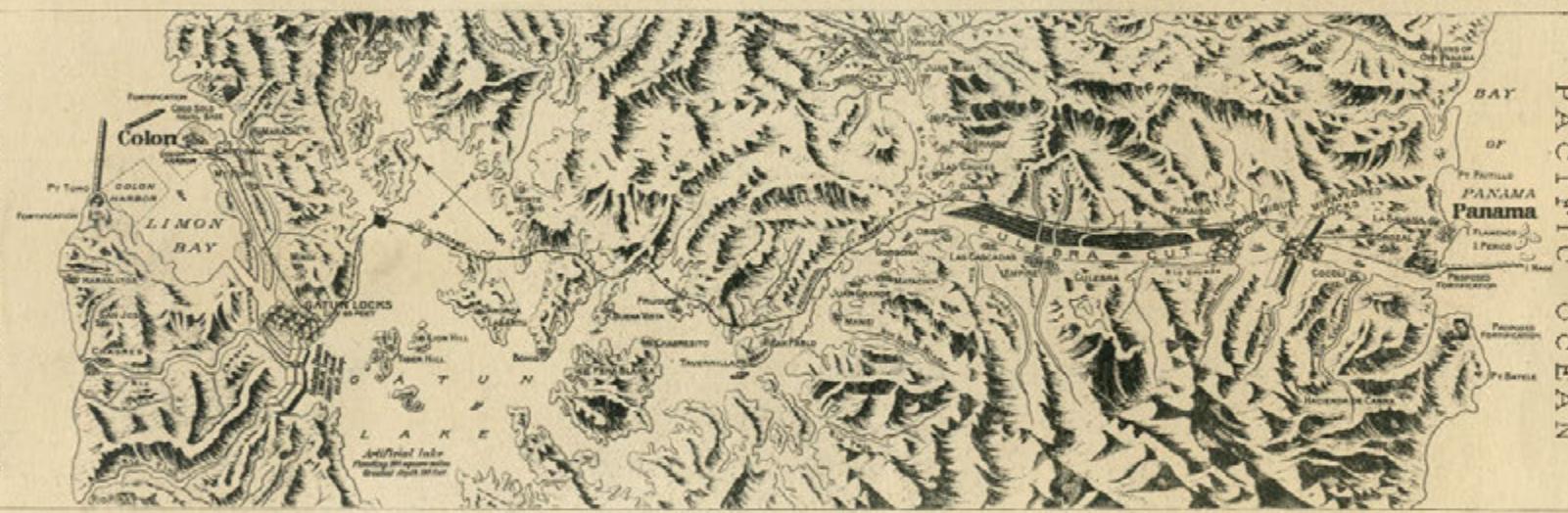
Pig Farm maintained by the Panama Canal at Margarita, Canal Zone.  
Granja de Cerdos sostenida por el Canal de Panamá en Margarita, Zona del Canal.



Toro Point Breakwater, Atlantic Entrance, Panama Canal.  
Rompe olas de Punta Toro, entrada del Atlántico, Canal de Panamá.

Roken bouwzijde van deze paalwateren teken b  
V

ATLANTIC OCEAN



PACIFIC OCEAN

Model of the Panama Canal.

Cathedral, Panama City

