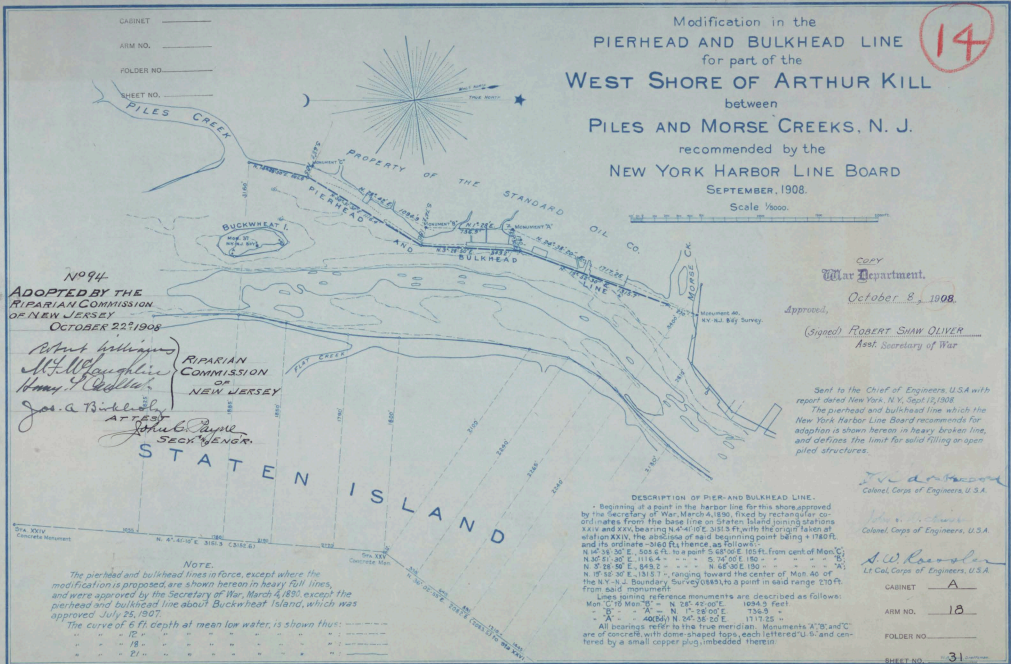
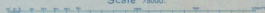


14

Modification in the
PIERHEAD AND BULKHEAD LINE
 for part of the
WEST SHORE OF ARTHUR KILL
 between
PILES AND MORSE CREEKS, N. J.
 recommended by the
NEW YORK HARBOR LINE BOARD

SEPTEMBER, 1908.

Scale 1/8000.



Copy
 War Department,
 October 8, 1908.

Approved,
 (Signed) **ROBERT SHAW OLIVER**
 Asst. Secretary of War

Sent to the Chief of Engineers, U.S.A with
 report dated New York, N.Y., Sept 12, 1908.
 The pierhead and bulkhead line which the
 New York Harbor Line Board recommends for
 adoption is shown hereon in heavy broken line,
 and defines the limit for solid filling or open
 piled structures.

J. W. Johnson
 Colonel Corps of Engineers, U.S.A.

J. W. Johnson
 Colonel Corps of Engineers, U.S.A.

S. W. Casselman
 Lt Col Corps of Engineers, U.S.A.

CABINET A
 ARM NO. 18
 FOLDER NO. _____

SHEET NO. 31

No 94
 ADOPTED BY THE
 RIPARIAN COMMISSION
 OF NEW JERSEY
 OCTOBER 22, 1908

Robert Williams
M. W. Laughlin
Henry J. Collier
John B. Plante
 RIPARIAN
 COMMISSION
 OF
 NEW JERSEY
 ATTORNEY
 JOHN B. PLANTE
 SECKENBURG

STATEN ISLAND

DESCRIPTION OF PIER- AND BULKHEAD LINE.
 Beginning at a point in the harbor line for this shore approved by the Secretary of War, March 4, 1890, fixed by rectangular coordinates from the base line on Staten Island joining stations XXIV and XXV, bearing N 47° 41' 0" E, 3151.5 ft. with the origin taken at station XXIV, the abscissa of said beginning point being +1780 ft. and its ordinate -3160 ft. thence, as follows:
 N 46° 35' 30" E, 505.6 ft. to a point 5 68° 00' E 165 ft. from cent of Man C.
 N 30° 31' 30" E, 1116.4 " " " 5 74° 00' E 180 " " " B.
 N 3° 38' 30" E, 849.2 " " " N 46° 30' E 180 " " " A.
 N 18° 15' 30" E, 1315.7 " " " ranging toward the center of Man A. of the N.Y.-N.J. Boundary Survey (1885), to a point in said range 130 ft. from said monument.

Lines joining reference monuments are described as follows:
 Man C. to Man B. - N 38° 42' 00" E, 1034.5 feet.
 " " " " - A - N 1° 26' 00" E, 736.9 " "
 " " " " - A' - 40° 04' N 245° 35' 20" E, 1117.25 "

All bearings refer to the true meridian. Monuments A', B, and C are of concrete with dome-shaped tops, each lettered 'U. S.' and centered by a small copper plug, imbedded therein.

NOTE.
 The pierhead and bulkhead lines in force, except where the modification is proposed, are shown hereon in heavy full lines, and were approved by the Secretary of War, March 4, 1890, except the pierhead and bulkhead line about Buckwheat Island, which was approved July 25, 1907.
 The curve of 6 ft. depth at mean low water, is shown thus:

--- 12 ---	--- 12 ---	--- 12 ---	--- 12 ---	--- 12 ---	--- 12 ---
--- 18 ---	--- 18 ---	--- 18 ---	--- 18 ---	--- 18 ---	--- 18 ---
--- 21 ---	--- 21 ---	--- 21 ---	--- 21 ---	--- 21 ---	--- 21 ---