

Primary Battery File

National Archives, Washington D.C.

Record Group 77

Correspondence of the Chief of Engineers

Entry 103

File, Fort, Battery:

46259

Ft. Andrews

Btty Bumpus

WAR DEPARTMENT,
UNITED STATES ENGINEER OFFICE,

~~-42-BOW-STREET,~~

~~PORTSMOUTH, N. H.~~

P. O. BOX 5346, ROOM 917 WINTHROP BUILDING,
BOSTON, MASS.

April 10, 1903.

Brig. Gen. G. L. Gillespie,
Chief of Engineers, U. S. Army,
Washington, D. C.

General:

1. In compliance with instructions contained in your letter of March 6, 1903 (46259), I have the honor to submit herewith plans and estimate for two emplacements for 3-inch rapid-fire guns on pedestal mounts at Fort Andrews, Mass.

2. As it is proposed to follow the type plans in all respects, detailed plans are not forwarded, the plans showing only the relation of the two emplacements which it is proposed to build to the other emplacements already built and the field of fire of the various batteries.

3. The site is practically level and the battery has been so located as to have the cut and fill balance. It is located on the right flank of the battery of two 6-inch rapid-fire guns on pedestal mounts in a prolongation of the line drawn through the centers of the two 6-inch emplacements. This location interferes as little as practicable with the field of fire of the 6-inch guns, while giving the 15-pounder guns as large a field of fire as practicable. Throwing the 15-pounders more to the front would interfere with the fire of the 6-inch battery, and pushing it more to the rear would

decrease the field of fire of the 15-pounders.

4. The mixing plant which was used in the construction of the mortar battery at Fort Andrews is not so located that it can be used advantageously in the construction of this 15-pounder battery, and as the amount of concrete to be laid is not sufficient to justify the erection of a mixing plant for this battery alone, it will be necessary to mix the concrete by hand; for this reason and for the further reason that the prices of cement and labor are now extremely high the unit rates have been made large but it is not believed that the work can be constructed for any less at the present time.

5.	Estimate of Cost.	
	Concrete, 700 cu. yds. @ \$11.00,	7,700.00
	Waterproofing,	700.00
	Excavation and fill, 1400 cu. yds. @ 75¢,	1,050.00
	Sodding, 1000 sq. yds. @ 90¢,	900.00
	Drainage,	350.00
	Doors, 3 @ \$75.00,	225.00
	Steel rods, etc.,	200.00
	Electric light system,	<u>200.00</u>
		11,325.00
	Superintendence, contingencies, etc.,	<u>1,175.00</u>
	Total,	\$12,500.00

6. It may be remarked that to prevent condensation it is proposed to line the magazines and storerooms with a wood lining.

This will be done by leaving wood strips in the walls when the concrete is built upon which the lining, which will probably be 7/8-inch tongued and grooved cedar, can be fastened. Back of the tongued and grooved cedar will be placed a waterproof paper in order to keep the wood away from direct contact with the walls. The cost of this has been included in the item of waterproofing in the estimate.

7. From observations which have been thus far made upon the wooden linings which have been placed in the magazines in this district, this method of lining appears to be entirely effective in preventing condensation; and as great precaution will be taken to prevent any percolation, it is hoped that the battery thus constructed will be perfectly dry.

8. No new wharves, roads or railroads will be needed in connection with the construction of this battery.

Very respectfully,

Your obedient servant,

Henry Taylor
Captain, Corps of Engineers.

Through Col. Chas. R. Suter,

Corps of Engineers,

Division Engineer of the Northeast Division.

1 tracing in sep. roll.

42 1 1903

OFFICE OF CHIEF OF ENGINEERS
APR 11, 1903

46259

WAR DEPARTMENT Boston, Mass.,
April 10, 1903

Taylor,
Captain Harry

In compl. with Dept. letter of March 6, 1903, submits plans and est. for two empls. for 3" R.F. Guns, ped. mts., at Fort Andrews, Mass.

Will follow type plans; detailed plans not forwarded.
Remarks on location.
Estimate \$12,500.

Also remarks on prevention of percolation and condensation.

Inc. 2 in check files: 85, 185, 284, 4.

1 inclo. (tr.) 52

147	FORTIF- U.S. ENGINEER OFFICE,
2	CATIONS, BOSTON, MASS.
	BOSTON, APR 17 1903

RECD. BACK, OFFICE CHIEF OF ENGRS. APR 23 1903

McHardin

Room 9

OK up

WMS

AT

1st indorsement
NORTHEAST DIVISION
ENGINEER OFFICE

New York, April 11, 1903.
Respectfully forwarded to the Chief of Engineers, U. S. Army.
By direction of Colonel Suter, in his absence.

Wm. S. Suter

Clerk.

42, 1903.

Inclo. 2 (tr.) in sep. roll.

2d indorsement.

Office Chief of Engineers,

U. S. ARMY.

April 14, 1903.

Respectfully returned to Captain Taylor, approved.

2. An allotment of \$12,500 for the purpose is hereby made from the appropriation for "Gun and Mortar Batteries," for construction of gun batteries, Act of June 6, 1902.

3. These papers to be returned.

By command of Brig. Gen. Gillespie:

Wm. V. Allen
Major, Corps of Engineers.

46259

Inclo. 2 in sep. roll.

Thorough Col. CHAS. F. SUTER,

Corps of Engineers,

Division Engineer, Northeast Division,

Recd by, Apr. 16, 1903

3rd indorsement
NORTHEAST DIVISION
ENGINEER OFFICE

New York, April 16, 1903.
Respectfully forwarded to Captain Taylor.

By direction of Colonel Suter in his absence.

Wm. S. Suter

Clerk.

42, 1903.

Inclo. 2 (tr.) in sep. roll.

4th indorsement.

U. S. Engineer Office,
Boston, Mass.

April 22, 1903.

Respectfully returned to the Chief of Engineers.

Harry Taylor
Captain, Corps of Engineers.

147

2.

Forts. B.

Inclo. 3 in sep. roll.

RECD. OFFICE CHIEF OF ENGRS. APR 23 1903