

Primary Battery File

National Archives, Washington D.C.

Record Group 77

Correspondence of the Chief of Engineers

Entry 103

File, Fort, Battery:

43486

Ft. Getty

Btty Whiting

Subject: Estimate- 15-pdr. gun emplacements-Fox Hill, R.I. 38-2855

U. S. Engineer Office,

Newport, R. I. December 15, 1902.

Brig. Gen. G. L. Gillespie,

Chief of Engineers, U. S. Army,

Washington, D.C.

General:

1. In compliance with instructions contained in letter of June 27, 1902, E.D.F.M. No. ⁴³⁴⁸⁶ 43846, I have the honor to submit herewith plans and estimates for the construction of emplacements for two 15-pdr. rapid-fire guns on pedestal mounts at Fox Hill, R.I.

2. At the time that the 12-inch and 6-inch gun emplacements at that locality were under consideration, it was contemplated to place the two 15-pdr. gun emplacements to the west of the 6-inch gun battery, but at the suggestion of the Division Engineer, the location was changed to that now located on the drawing, as the objections to the site near the 6-inch gun battery were too great.

3. An examination of the site of the proposed location shows sand down to the water level, intermixed with a soft peaty formation, and below this level, the material consists of alternate layers of sand and peat as far as the pits were sunk, - about ten feet below the low water mark. Experimentally, it was determined that the material will bear about 1500 pounds to the square foot, whereas the maximum pressure under the parapet due to the concrete is about 2100 pounds per square foot. To avoid settlement after completion, it is proposed to excavate to a depth of two feet below the present surface of the ground and fill in with broken stone and concrete over a sufficiently large area, so as to distribute the pressure in such a way as to allow no greater pressure per square foot than

about 1400 pounds. It is further intended to inclose the entire area in sheet piling, both to add greater security against settlement and also to prevent any excavation that may subsequently be undertaken in the vicinity by the Quartermaster's Department from unsettling the foundation in any way.

4. The battery is designed in accordance with outlines prepared by Colonel P. C. Hains, Corps of Engineers, and the portion in rear of the gun platforms in accordance with the design of Major W. L. Marshall, Corps of Engineers. It is proposed to use Shawnee bricks as lining of the magazines and rooms, with two-foot air spaces around the magazines for drainage, electric light wires, water supply, &c. The roofs of the magazines are to be covered with lead; the roofs of the other rooms to be covered with asbestos felt.

5. Estimates. Labor & Material.	Quantity.	Price.	Cost.
Excavation,	1100 cu.yds.	50¢	\$ 550.00
Embankment,	1200 " "	75¢	900.00
Sodding,	560 sq."	55¢	308.00
Concrete,	875 cu."	\$7 1/2	6562.50
Forms,			500.00
Brick, facing,	1000 sq."	65¢	650.00
backing,	15000 bricks	\$18	240.00
Waterproofing,	600 sq.ft.	20¢	120.00
Steel rods, twisted,	3000 lbs.	8¢	240.00
Speaking tubes,	60 ft.	50¢	30.00
Electric conduit from 12"			
gun battery,	900 ft.	60¢	540.00
Doors and windows, iron,	4 doors	\$100	400.00
	2 windows	\$50	100.00
Railing, iron,	100 ft.	\$1 1/2	150.00
Anchor plates and bolts,	2 sets		90.00
Water supply & drainage,	300 ft.	75¢	225.00
Hauling & mounting guns,			100.00
Foundation,			870.00
			<u>\$12575.50</u>
			1257.55
			<u>\$13833.05</u>
Engineering, contingencies, &c., 10%			
Very respectfully,			
your obedient servant.			

90 14 1902

Dec. 16 1902

43486

Newport, R. I.
Dec. 15, 1902.

Major Geo. W. Goethals

REPRODUCED AT THE NATIONAL ARCHIVES

compl. with Dept. letter of
Dec. 7, 1902, submits plan and
cost of two 15-pdr. empls. at Fox
R. I.
The character of site sel-
ected and that it will sustain
1500 lbs. per sq. ft., and weight
under parapet will be about 2100
lbs. per foot. Proposes to dis-
tribute weight to limit pressure
to 1400 lbs., and to inclose with
sheet piling.
States special points of con-
struction, and estimates cost at
\$13,833.05.

1 Inc., E.D. (Tracing.)

39957
27

Dec. 16 1902

RECD. OFFICE OF CHIEF OF ENGRS.

4

1st

December 20, 1902.

Respectfully forwarded to the
Chief of Engineers, U. S. Army,
recommended for approval.

The change of position alluded
to is embraced in the revised
project of The Board of Engineers,
approved by the Secretary of War
December 17, 1902.

Colonel, Corps of Engineers,
Division Engineer.

90, 1902.

Incl. 5 (tr.) in sep. roll.

2d indorsement.

Chief of Engineers,
U. S. Army.

December 23, 1902.

Respectfully returned to Major
Goethals, approved. \$14,000 for the
An allotment of \$14,000 for the ap-
propriation for "Gun and Mortar
batteries," for construction of gun
batteries, Act of June 6, 1902. nec-
essary has been made, these papers

will be returned to this office.

Major V. Allen
Major, Corps of Engineers

43486

Incl. 2 in sep. roll.

Through the Chief of Engineers,
Division Engineer, Northeast Division.

3rd indorsement.
NORTHEAST DIVISION
ENGINEER OFFICE

New York, December 26, 1902.

Respectfully forwarded to Maj.
Goethals, inviting attention to
the preceding indorsement.

Colonel, Corps of Engineers,
Division Engineer.

90, 1902.

Incl. 5 (tr.) in sep. roll.

4th indorsement. ✓

U. S. Engineer Office,
Newport, R. I., December 28, 1902.

Respectfully returned to the
Chief of Engineers, U. S. A., the
necessary record having been

made.

Major, Corps of Engrs., U. S. A.

43486

Incl. 2 in sep. roll.

Thro' Col. Chas. R. Suter,
Corps of Engineers, U. S. A.,
Div. Engr., N. E. Division.

38-2932

4th indorsement.
NORTHEAST DIVISION
ENGINEER OFFICE

New York, Dec. 30, 1902

Respectfully forwarded to the
Chief of Engineers, U. S. Army.

Colonel, Corps of Engineers,
Division Engineer.

90/4 - 1902

Incl. 5 (tr) in sep. roll

Dec. 31 1902
RECD. OFFICE OF CHIEF OF ENGRS. JAN 2 1903