

Primary Battery File

National Archives, Washington D.C.

Record Group 77

Correspondence of the Chief of Engineers

Entry 103

File, Fort, Battery:

11200

Ft. Strong

Btty Hitchcock and Ward

LT. COL. S. M. MANSFIELD,
Corps of Engineers, U. S. A.

Subject: Platforms for disappearing-carriages.

UNITED STATES ENGINEER OFFICE,

P. O. BOX 5346, ROOM 124 P. O. BUILDING,

BOSTON, MASS.

June 6, 1895.

Brig. Gen. W. P. Craighill,
Chief of Engineers, U.S.A.,
Washington, D.C.

General:

I have the honor to acknowledge the receipt of one blue print, Platform Sheet, Buffington-Crozier disappearing carriage, Model of 1894, presumably sent to me in response to my application of May 31, 1895, for drawings of the Crozier-Buffington Carriage, for use in preparing plans and estimates for platforms, etc.

The two blue prints accompanying a copy of a report of The Board of Engineers dated April 27, 1895, relating to the platform and emplacement for a 10-inch gun mounted on a Crozier-Buffington disappearing carriage, sent me under date of May 28, 1895, are typical only, and do not supply the information I require to adapt the sites at Fort Warren and Long Island Head to this carriage.

These drawings are for an emplacement 62 feet in width and allow a traverse of the gun through 120°. In the Ravelin at Fort Warren the width of emplacement is 52 feet and a traverse of only 100° is required. In the Bastion of the Fort the same traverse of 100° is called for while the site is a very irregular one.

The emplacement at Long Island Head is also peculiar, and provides for a traverse of but 85°, and all these sites require some

degree of depression for the gun.

Most of the masonry of these emplacements is in place, and in order that it may be economically completed, more information is required.

I have therefor respectfully to renew my request for drawings of the carriage, and that they be in as full detail as possible.

Very respectfully,

~~Your obedient servant,~~

Lt. Col., Corps of Engineers.

OFFICE OF CHIEF OF ENGINEER.

8

JUN 8 11200
2 1895

WAR DEPARTMENT.

Doctor,
June 6, 1895.

Manassas,
A. Lee. A. M.

Chgo. receipt of Lp. of
platform sheet, Burlington.
Ingers disapparing car-
riage, model of 1894, and
inves his reg. of May 31,
95, for detail drawings of
the carriage

And. June 12/95.
Letter to Dr. Lee. Manassas
June 17/95.

Subject: Estimate for platform.
LT. COL. S. M. MANSFIELD,
Corps of Engineers, U. S. A.

UNITED STATES ENGINEER OFFICE

P. O. BOX 5346, ROOM 124 P. O. BUILDING,

BOSTON, MASS.

11947

Ft. Strong

Ward-Hitchcock

Brig. Gen. W. P. Craighill,
Chief of Engineers, U.S.A.,
Washington, D.C.

General:

In accordance with instructions of May 28, 1895 (11200),
I have the honor to submit the following estimate of the cost of
constructing a platform for a 10-inch service high power gun
mounted on a Crozier-Buffington disappearing carriage, at the
Battery at Long Island Head, Mass.

The original estimate for this emplacement was submitted Oct.	
11, 1892; it amounted to	\$73,174.75
On Nov. 17, 1892, there was allotted	58,000.00
	<hr/>
Balance necessary to complete emplacement	15,174.75

For the platform:

925 cubic yards rammed earth embankment @ \$1 per C.y.	925.00
80 running feet drains @ \$1 per r.ft.	80.00
448 cubic yards concrete @ \$6 per c. y.	2,688.00
544 cubic feet stone masonry @ \$1 per c. ft.	544.00
283 running feet I steel beams 7", 4,245 lbs.	
20 " " " " 12", 400 "	
	<hr/>
4,645 lbs. @ 5¢ p.lb	232.25
16 bolts, nuts and washers,)	
28 " " " ") 4,680 lbs. @ 7¢ per lb.	327.60

	2
250 s. yards sodding @ \$1 per s. yd.	250.00
Iron steps	100.00
Iron ladder	25.00
3 cranes	100.00
Assembling carriage and mounting gun	1,000.00
Contingencies	1,053.40
	<hr/>
Total,	22,500.00
	<hr/>

A tracing showing the proposed arrangement of emplacement and platform is herewith inclosed.

Very respectfully,

Your obedient servant,

Lt. Col., Corps of Engineers.

(1 inclo.-tracing in separate roll.)

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RECEIVED

AUG 3 1895

Boston
July 29, 1895

Mansfield,

Lieut. Col. S. M.

In accordance with
motion of May 25, 1895
relative estimate of
the cost of erecting
a platform for a
10-inch service high
power gun mounted
on a Craigie-Buffington
hoisting carriage
at the Battery at
Long Island Head
Mass. about \$23,500

1 Engr. E. O. (Inspector)
Encl. 1 (Tracing of plan of gun-23 inch high,
from Mass. 3rd Reg. 28th Aug. 1895, Office,
Boston, Mass.)

297

RECEIVED

9

1895

\$21,674.75 allotted (1895) Mansfield
advised Aug. 16, 1895.

RECD. OFFICE CHIEF OF ENGRS. BY AUG 7 1895
Encl. 1, accompanying letter, 14
Encl. 1, 2 with view accompany
the

1st Indorsement

Office, Chief of Engineers,
W. D. Army,
August 2, 1895.

Respectfully referred to
The Board of Engineers, for
remarks

W. D. Army

Brig. Gen., Chief of Engineers.

11947.

Encl. 1 in sep-
arate roll.

2d Indorsement

The Board of Engineers,
Army-Building,
New York City, Aug. 5, 1895.

Respectfully returned to
the Chief of Engineers.

There was a discrepancy in
the Board drawing which has al-
ready formed the subject of a re-
port dated July 29, 1895 (Inclos-
ure 109 of 9857) relative to the
level of the floor between the
pintle masonry and the breast
height wall. Col. Mansfield has

followed the plan, while the
section correctly representing
the views of the Board. It is
therefore recommended that this
level be at reference (10'.9)
instead of (9'.6) and that the
portion thus raised be limited
by vertical planes extending
from the angles of the recess
in the breast height wall nor-
mally to the pintle masonry.

The Board considers that
drainage pipe 6 inches in diam-
eter is sufficient for the main
delivery and that 4 inches in
diameter is large enough for
all the rest, and therefore
so recommends.

The Board is also of opin-
ion that no granite masonry is
needed in this platform, con-
crete having sufficient strength
for the purpose, and therefore
recommends that this change in
the project be made.

The Board prefers the con-
struction shown on the typical
drawing for the recess magazine
and therefore recommends that
the shell recess be 5 feet wide
and terminated in rear by an 8-
inch brick wall.

The Board is of opinion

that, as was formerly the cu-
tom, guns should be mounted
the Ordnance Department. It
has been found to be desir-
in order that every detail
be arranged exactly as con-
templated by that Department, which
is properly responsible for the
working of the carriage. If
this view be adopted the item
of \$1,000 in Col. Mansfield's
estimate will be unnecessary.

For the Board:

Henry S. (Sgt.)

Colonel of Engineers,
Bvt. Brig. Gen., U.S.A.,
President of the Board.

RECD. OFFICE CHIEF OF ENGRS AUG 7 1895

Subject: Estimate for emplacement.
LT. COL. S. M. MANSFIELD,
Corps of Engineers, U. S. A.

UNITED STATES ENGINEER OFFICE,

P. O. BOX 5346, ROOM 124 P. O. BUILDING,

BOSTON, MASS.

August 13, 1895.

Brig. Gen. W. P. Craighill,
Chief of Engineers, U.S.A.,
Washington, D.C.

General:

In accordance with 3d indorsement on Department 11947, I have the honor to submit the following estimate of the amount necessary to complete an emplacement for a 10-inch service high power gun, at the Battery at Long Island Head, Mass.

The original estimate for this emplacement was submitted Oct. 11, 1892; it amounted to	\$73,174.75
On Nov. 17, 1892, was allotted	58,000.00
	<hr/>
	15,174.75
Estimated cost of assembling carriage and mounting gun	1,000.00
	<hr/>
	16,174.75

Very respectfully,

Your obedient servant,

Lt. Col., Corps of Engineers.

Subject: Estimate for platform.
LT. COL. S. M. MANSFIELD,
Corps of Engineers, U. S. A.

UNITED STATES ENGINEER OFFICE,

P. O. BOX 5346, ROOM 124 P. O. BUILDING.

BOSTON, MASS.

11947/2

August 13, 1895.

Brig. Gen. W. P. Craighill,
Chief of Engineers, U.S.A.,
Washington, D.C.

General:

In accordance with 3d indorsement on Department 11947, I have the honor to submit the following revised estimate of the cost of constructing a platform for a 10-inch service high power gun mounted on a Crozier-Buffington disappearing carriage at the Battery at Long Island Head, Mass.

1,025 cubic yards rammed earth embankment @ \$1 per c.y.	\$1,025.00
415 cubic yards concrete @ \$6 per c.y.	2,490.00
75 running feet drains @ \$1 per foot	75.00
80 cubic feet stone masonry @ \$1 per c.ft.	80.00
348 cubic feet brick masonry @ 75¢ per c.ft.	261.00
210 running feet I beams 5", 2,100 lbs.	
20 running feet [beams 12", 400 lbs.	

2,500 lbs. @ 5¢ per lb.	125.00
16 bolts, nuts and washers)	
28 bolts, nuts and washers)	4,680 lbs. @ 7¢ per lb.
	327.60
250 s. yards sodding @ \$1 per s.y.	250.00
Iron steps	100.00
Iron ladder	25.00

3 cranes

L.I. 2

100.00

Contingencies

641.40

5,500.00

Very respectfully,

Your obedient servant,

Lt. Col., Corps of Engineers.