

Primary Battery File

National Archives, Washington D.C.

Record Group 77

Correspondence of the Chief of Engineers

Entry 103

File, Fort, Battery:

46248

Ft. Greble

Btly Mitchell

Subject: 6-inch battery construction at Ft. Greble, R.I. 38-3552

U. S. Engineer Office,

Newport, R. I., March 19, 1903.

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

General:

Under date of March 6, 1903, E.D.F.M. No. 46248, instructions were received by which plans and estimates are to be submitted for the construction of two 6" gun emplacements with disappearing mounts at Fort Greble, R.I. The only place available on the reservation for these emplacements is west of and adjoining the present 6-inch gun emplacement, on pedestal mount. This emplacement is in very poor condition. It was built by contract in 1898; the superior slope is in very bad shape; the concrete is poor and it is impossible to keep out percolation; and I would respectfully recommend that if funds available will permit, this battery be torn down and rebuilt in connection with the other emplacements now contemplated. It is proposed to build the emplacement, if this authority be granted, identical with the plans now on file.

Very respectfully,

Your obedient servant,

W. H. Suter
Major, Corps of Engineers, U.S.A.

Thro' Col. Chas. R. Suter,
Corps of Engineers, U. S. A.,
Division Engineer, Northeast Division.

57 4 1898

Rec'd N.Y. Mch 30, 1903

46248

Newport, R. I.,
March 19, 1903.

Goethals,
Major Geo. W.

REPRODUCED AT THE NATIONAL ARCHIVES
says the present 6-inch empl-
mt., at Fort Greble, R. I., is
in very poor condition. Records
th it be torn down, and rebuilt
(id tical with the plans now on
fi) in connection with the
other 6-inch empls., dis.mts.,
now contemplated.

File
97-1114

RECEIVED, OFFICE CHIEF OF ENGINEERS, APR 3 1903

1st indorsement.
NORTHEAST DIVISION
ENGINEER OFFICE

New York, March 20, 1903.

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

Chas. R. Suter
Colonel, Corps of Engineers,
Division Engineer.

57, 1898.
4

2d indorsement.
Office Chief of Engineers,
U. S. ARMY.

March 24, 1903.

Respectfully returned to Major
Goethals, approved.

A separate item in the estimate
for the battery should be so stat-
ed that the cost of the two types
of emplacement and the cost of re-
moval of the old work can be kept
distinct on the accounts in this
office.

This paper to be returned.

By order of the
Acting Chief of Engineers:

Chas. R. Suter
Major, Corps of Engineers.

46248
1

Through Col. CHAS. R. SUTER.

Corps of Engineers,
Division Engineer, Northeast Division.

3rd indorsement.
NORTHEAST DIVISION
ENGINEER OFFICE

New York, March 26, 1903.

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

Chas. R. Suter
Colonel, Corps of Engineers,
Division Engineer.

57, 1898.
4

4th indorsement.

U. S. ENGINEER OFFICE,
NEWPORT, R. I. Mch 31-1903

Respectfully returned to the Chief
of Engineers U. S. Army the neces-
sary record having been made.

Chas. R. Suter
Major, Corps of Engineers.

38-3653

Thro' Col. Chas. R. Suter,

Corps of Engineers, U. S. A.,

Division Engineer, Northeast Division.

New York, Apr. 1, 1903

the

57,
4

REC

Subject: Estimates: Construction and reconstruction of 6" r.f. gun ³⁸⁻⁴⁰¹⁷
U. S. Engineer Office, ^{emplts. Fort Greble,} R.I.

Newport, R. I., May 19, 1903.

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

General:

1. Under authority granted by Department indorsement of March 24, 1903, E.D.F.M.No.46248-1, I have the honor to submit estimates for tearing down and rebuilding the emplacement for the 6-inch Armstrong pedestal mounted gun now emplaced at Fort Greble, Rhode Island, and in compliance with Department instructions of March 6, 1903, E.D.F.M.No.46248, to submit estimates for the construction of emplacements for two 6-inch rapid-fire guns at said post.

2. The plan of the former battery is indicated on the accompanying tracing, which also includes those of the new 6-inch gun emplacements, the battery is to occupy the same site and is to be constructed with the same disposition of rooms as the original.

3. Attention is invited to the location of the new 6-inch gun battery at this post, more particularly in its relation to the 3-inch gun battery further to the south on the reservation. It will be observed that these 6-inch guns will fire, in a certain position, over the smaller battery, but on account of the contracted width of the reservation, this can not be avoided. The position of these six-inch guns is practically limited to the site selected. To conform as nearly as practicable to the general contour of the ground, the

emplacements are stepped down towards the west.

4. The estimates, in each case, are based upon the use of Shawnee brick lining for the rooms and the waterproofing of copper.

5. Estimates.

Material and labor.	1 6-inch gun em- placement (to re- place present one.)			2 6-inch gun emplace- ments (new).		
	Quantity.	Price.	Cost.	Quantity.	Price.	Cost.
Embankment:						
From excavation,	1300 cu.yds.	\$0.50	\$650	3400 cu.yds.	\$ 0.50	\$ 1700
To be bought,	720 cu.yds.	\$1.00	720	3300 " "	1.00	3300
Excavation: earth,	1300 " "	0.50	650	3400 " "	0.50	1700
" old masonry,	720 " "	1.75	1260			
" rock,				720 " "	1.75	1260
Roadway, sand for,	20 cu.yds.	1.25	25	40 " "	1.25	50
Sodding,	1260 sq.yds.	0.50	630	2920 sq. "	0.50	1460
Crushed stone,	50 cu. "	2.50	125	200 cu.yds.	2.50	500
Concrete:						
Facing (Portland)	100 cu.yds.	12.00	1200	200 " "	12.00	2400
Portland,	950 " "	8.00	7600	3000 " "	8.00	24000
Form s,			600			1600
Brickwork: facing,	1700 sq.ft.	0.60	1020	4450 sq.ft.	0.60	2670
: walls,	75 cu.yds.	20.00	1500	130 cu.yds.	20.00	2600
Terra cotta tiles,				1160 sq.ft.	0.35	406
Waterproofing,	290 sq.yds.	3.00	870	738 sq.yds.	2.60	1918
Anchor plate,						
bolts & ring			100			
bolts,						
Anchor bolts and				30 No.	7.00	210
ring bolts,						
Twisted steel bars						
& I beams,	3000 lbs.	0.04	120	7000 lbs.	0.04	280
Doors, windows &						
frames, (iron)	7 No.	90.00	630	18 No.	90.00	1620
Speaking tubes,	200 ft.	0.60	120			
Speaking tubes				500 ft.	0.60	300
& fixtures,				65 "	1.80	117
Handrails, (iron)	35 "	1.80	63			
Ventilators,	4 No.	6.00	24	8 No.	6.00	48
Corners (cast iron)	10 "	10.00	100	24 "	10.00	240
Manholes & covers,	1 "		70	4 "	70.00	280
Gratings,			15			50
Elect. conduits,			150			40
Drainage,			100			
Water supply,			180			40
(pipes & hydrants)			10			4
Painting,			885			180
Plant,						\$ 5185
Carried forward,			\$ 19417			

3-

Brought forward,	\$19417	\$51852
Guns, moving & mounting,	200	1000
	<u>\$19617</u>	<u>\$52852</u>
Engineering & contingencies,	1950	5300
about 10%,	<u>\$21567</u>	<u>\$58152</u>

Very respectfully,

Your obedient servant,

W. S. Macgregor
Major, Corps of Engineers, U.S.A.

1 inclo. in sep. roll.

Thro' Col. Chas. R. Suter,
Corps of Engineers, U. S. A.,
Division Engineer, Northeast Division.

49
H-E-D
1903

RECEIVED
OFFICE OF ENGINEERS
RECEIVED N. Y. May 20, 1903.

DEPARTMENT
Newport, R. I.,
May 19, 1903.

Goethals,
Major Geo. W.

Under auth. of Dept. Indt. of
h 24, 1903, submits estimates
re-construction of the empl.
the 6-inch R.F. Gun, pad. mtd.,
at
ort Greble, R. I.
stimates, \$21,567.
Iso, in compl. with Dept. letter
of arch 6, 1903, submits plans &
es. for empls. for two 6-inch
R. I. runs, dis. carr., at Fort Greble
R. I.
Estimates, \$58,152.

1 inclo. (tr.) *GR*
Inclo 3 in map file On 29. 44. 37.

W. H. ...

47

1297

RECEIVED
OFFICE CHIEF OF ENGS. JUN 11 1903
W. H. ...

1st indorsement.

NORTHEAST DIVISION

ENGINEER OFFICE

New York May 25, 1903.

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

W. H. ...
Colonel, Corps of Engineers,
Division Engineer.

49,
1
1903.

Inclo. 2 in sep. roll.

2nd indorsement.

Office Chief of Engineers,
U. S. Army.

May 27, 1903.

1. Respectfully returned to Major Goethals, approved.
2. An allotment of \$21,600 for the pedestal-mount emplacement and one of \$58,000 for the two disappearing-carriage emplacements are hereby made from the appropriation for "Gun and Mortar Batteries," for construction of gun and mortar batteries, Act of March 3, 1903.
3. These papers to be returned to this office.

By order of the
Acting Chief of Engineers:

W. H. ...
Major, Corps of Engineers.

46248
2
Thorough Col. CHAS. R. SUTER,
Corps of Engineers,

Inclo. 3 in
syn. roll
Division Engineer, Northeast Division.

3d indorsement.

NORTHEAST DIVISION

ENGINEER OFFICE

New York, May 29, 1903.

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

W. H. ...
Colonel, Corps of Engineers,
Division Engineer.

49/1, 1903.

Inclo. 2 in sep. roll.

4th indorsement.

U. S. ENGINEER OFFICE,
NEWPORT. R. I. June 4, 1903

Respectfully returned to the Chief
of Engineers, U. S. Army. The neces-
sary record having been made.

W. H. ...

Captain, Corps of Eng'rs., U. S. A.

Thro' Col. Chas. R. Suter,
Corps of Engineers, U. S. A.,
Division Engineer, Northeast Division.

38-4092

U. S. Engineer Office,

Newport, R. I., July 24, 1903.

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

General:

1. Under date of May 27, 1903, plans sent from this office May 19, 1903, were approved for tearing out and rebuilding the single emplacement for 6-inch Armstrong gun at Fort Greble, R.I., and adding to it emplacements for two 6-inch r. f. guns on disappearing carriages. The retransfer of the single 6-inch gun emplacement to the Engineer Department has been approved and it is expected that the transfer will be made in a few days.

2. The following objections to the mixture of guns in this battery appear:

First- The non-disappearing gun would enable the enemy to locate the full battery.

Second-The different kinds of ammunition and the different drill systems in the same battery would be awkward in its operation, especially as these batteries have to be worked very rapidly.

3. It would appear desirable either to send this gun elsewhere where it can be combined with others of its own kind or to send others like it to this point and let the disappearing guns go elsewhere. In this connection, it would appear that there are few localities where barbette rapid-fire guns could be used to better advantage than at the site of this battery. It would be straight in front of an approaching ship and rather withdrawn from the line of fire, the batteries at Fort Getty and Boston Neck on the sides

being both considerably in advance. It would also be somewhat masked by the smoke from the 10-inch gun battery at Fort Greble. For these reasons, it may be advisable to send one or two similar guns to be added to it and let the disappearing guns go somewhere else.

4. Another reason for this would be the fact that while the tearing out of this battery has been authorized on account of the wetness of the magazine, it is possible that a waterproof white brick room with copper roof can be placed inside of this magazine at a cost which would be only a small fraction of the cost of tearing out and rebuilding the emplacement. This latter question is now under consideration and a report will be made upon it in a few days.

5. Meantime, it would appear advisable that the views of the proper artillery officers be obtained upon the subject of non-disappearing and disappearing guns in the same battery.

6. If the plan of combining 8-inch Armstrong guns in the same battery either here or elsewhere be deemed advisable, I would respectfully request to be furnished with a list of such guns now on hand and their localities, with a view to correspondence with the various officers looking to such combination.

Very respectfully,

Cassius E. C. [Signature]

Captain of Engrs., U. S. A.

*Thos. Col. Chas. R. Suter,
Corps of Engineers, U. S. A.,
Division Engineer, Northeast Division.*

49 3 1903

Rec'd N.Y. July 28, 1903
OFFICE CHIEF OF ENGINEERS

62 46248

Newport, R. I.,
July 24, 1903.

WAR DEPARTMENT
Gillette,
Captain C. E.

Refrg. to approval of plans for
two empls. of 6-inch R.F. guns on
dis.carr., and for rebuilding the
6" Armstrong gun empl., at Fort
Greble, R. I., also to retransfer
of this latter emplacement to the
Engineer Dept., cites objections
to the mixture of guns in this
battery and makes recommendations
in the matter.

File
9/1

already attached to

H

1st indorsement.
NORTHEAST DIVISION
ENGINEER OFFICE.

New York, July 28, 1903.
Respectfully forwarded to the
Chief of Engineers, U. S. Army.

The subject matter of this com-
munication would appear to be cov-
ered by the instructions of the
Department of July 24, 1903 (46247).

Chas. E. Fuller

Colonel, Corps of Engineers,
Division Engineer.

49,
3

d.

Subject: Plans & estimates-3 6"gun empls.Ft.Adams,R.I.38-3779

U. S. Engineer Office,

Newport, R. I., April 11, 1903.

Brig. Gen. G. L. Gillespie,

Chief of Engineers, U. S. Army,

Washington, D.C.

General:

1. In compliance with instructions contained in Department letter of March 6, 1903, E.D.F.M.No.46247, I have the honor to submit herewith plans and estimates for the construction of emplacements for three 6-inch rapid-fire guns on disappearing carriages at Fort Adams, R.I.

2. The site of this battery is the locality selected by the Board of Engineers at the time that the project was under consideration, and the estimates are based on going no deeper than is actually necessary, as indicated on the plans, somewhat spreading out the foundation so as to be secure against settlement.

Material & labor.	Quantity.	Price.	Cost.
Excavation, earth,	4600 cu.yds.	\$ 0.50	\$ 2,300.00
old masonry,	1260 " "	1.75	2,205.00
Embankment,	3220 " "	0.50	1,610.00
Sodding,	2480 sq."	0.50	1,240.00
Crushed stone,	380 cu."	2.50	950.00
Concrete, Portland facing,	320 " "	12.00	3,840.00
Portland,	3620 " "	8.00	28,960.00
Forms,			3,000.00
Brickwork, facing,	7240 sq.ft.	0.60	4,344.00
walls,	160 cu.yds.	20.00	3,200.00
Forwarded,			\$ 51,649.00

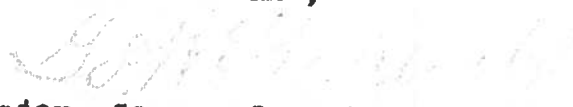
Brought forward,

\$ 51,649.00

Terra cotta tiles,	1280	sq.ft.	\$0.35	448.00
Waterproofing,	870	sq.yds.	2.00	1,740.00
Anchor bolts & ring bolts,	42		7.00	294.00
Twisted steel bars & I beams,	11000	lbs.	0.05	550.00
Doors, windows & frames, (iron)	24		90.00	2,160.00
Speaking tubes & fixtures,	610		0.60	366.00
Handrails, (iron)	80		1.80	144.00
Corners (cast iron),	44		10.00	440.00
Ventilators	12		8.00	96.00
Gratings,	18		4.00	72.00
Manholes & covers,	7		70.00	490.00
Elect. conduits,	680	ft.	0.70	476.00
Drainage,	1000	"	0.60	600.00
Water supply, pipes,	810	"	0.60	486.00
hydrants,	9		20.00	180.00
Sand for roadway,	80	cu.yds.	1.25	100.00
Painting,	2000	sq.ft.	0.04	80.00
Plant,				2,399.00
Guns, moving & mounting,				1,500.00
Engineering & contingencies,				\$ 64,270.00
Total,				6,000.00
				\$ 70,270.00

Very respectfully,

Your obedient servant,


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

1 inclo.

Thro' Col. Chas. R. Suter,

Corps of Engineers, U.S.A.,

Division Engineer, Northeast Division.

57 1403

Apr. 13, 1903

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ATTN

Newport, R. I.
April 11, 1903.

thals,
Major Geo. W.

compl. With Dept. letter of
5, 1903, submits plans and
or empls. for three 6-inch
ns, dis. carries. At Fort
R. I.

e, as selected by The Board
ineers. \$70, 270.
imates, \$70, 270.

1 inclo. (tr.)
1 inclo. 2 in sep. roll.

1st

April 13, 1903.

Respectfully forwarded to the
Chief of Engineers, U. S. Army.
By direction of Colonel Suter,
in his absence.

W. D. Suter
Clerk.

51, 1903.

1
Inclo. 2 (tr.) in sep. roll.
2d inclo. 2 in sep. roll.

April 15, 1903.

Respectfully returned to Major
Goethals, approved.

2. An allotment of \$70, 300 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 Major Geo. W. Suter

W. D. Suter
Major, Corps of Engineers

46247
1
Inclo. 2 in sep. roll.

Recd. Apr. 17, 1903.

3rd

April 17, 1903.

Respectfully forwarded to
Major Goethals.
By direction of Colonel Suter
in his absence.

W. D. Suter
Clerk.

51, 1903.

1
Inclo. 2 (tr.) in sep. roll.

W. D. Suter
inclosure.

U. S. ENGINEER OFFICE,
NEWPORT, R. I. April 30, 1903

Respectfully returned to the Chief
of Engineers, U. S. Army, the neces-
sary record having been made.

W. D. Suter
Major, Corps of Engineers

Inclo. 2 in sep. roll.

Thos' Col. Chas. R. Suter,
Corps of Engineers, U. S. A.,
Division Engineer, Northeast Division.

38-3881 Recd. May 2, 1903

Chief of

W. D. Suter

Colonel

51, 1903

Inc

Subject: 6" gun emplacement-Fort Greble, R.I.

38-4570

U. S. Engineer Office,

Newport, R. I., August 3, 1903.

Brig. Gen. Geo. L. Gillespie,

Chief of Engineers, U. S. Army,

Washington, D. C.

General:

1. Referring to my letter of July 24, 1903, upon the subject of the 6-inch gun emplacement at Fort Greble, R.I., and also to the sixth indorsement on letter of Major E. R. Hills, Artillery Corps, A. A. A. G., June 30, 1903, (E.D.46248-6) and also to letter of the Chief of Engineers of July 24, 1903, (E.D.46247), I have the honor to submit the following for consideration:

2. I have just made a careful examination of the emplacement for the single 6-inch Armstrong gun at Fort Greble, R.I., and while the emplacement makes a very poor appearance and the magazine is very wet, yet the gun is very substantially mounted and the protection to the magazine is ample. The faulty appearance can be remedied, a better shape to the gun platform and its parapet be given and a perfectly dry white brick magazine with a copper roof built inside the present magazine at a cost of not to exceed \$5,000, whereas the cost of tearing out and rebuilding the new emplacement will be from \$22,000 to \$28,000 and the new emplacement will be little better than the present one repaired, if a barbette mount be adopted, and not much better if a disappearing gun be mounted, except as to the disappearing feature, which is not especially essential at this place.

3. If two batteries of three 6-inch guns each- one disappearing, the other barbette- are to be erected, one at Fort Adams and one at Fort Greble, it would appear advisable to place the more efficient disappearing guns at Fort Adams, rather than at Fort Greble, for reasons given in my letter of July 24, 1903.

4. The addition of two more 6-inch guns to the right of the present gun at Fort Greble will undoubtedly be followed by a request from the artillery to tear out and remove the present emplacements for two 15-pounder guns, which will be directly in front of the new right flank 6-inch gun.

5. One of the functions of the present 6-inch gun is to fire against a commanding hill across the channel on the main land, in a northwesterly direction, to the right and rear of the emplacement. This function will be interfered with by the two guns on its right flank, but could be transferred to the new right flank gun.

6. The most important consideration of all is that this western channel appears to be already decidedly over-fortified. It is a secondary channel carrying a scant 25 feet of water at low tide, whereas the eastern channel has nearly as many fathoms. The western passage is very easily defended by torpedoes and in time of war can be filled full of mines and abandoned for commercial purposes. The armament, therefore, is really only necessary as a protection to the mine fields. For this purpose, we have at present the following armament:

Three 12-inch disappearing guns,
Three 10-inch disappearing guns,
Two 6-inch disappearing guns,
One 6-inch non-disappearing gun,
Four 15-pdr. guns,
Two 6-pounder guns.

Besides, a fleet attempting to remove the mines would be under the fire of sixteen 12-inch mortars at Fort Adams and eight 12-inch mortars at Fort Greble. It is, therefore, difficult to see the necessity for any further armament for this channel either at Fort Greble or at Boston Neck on the mainland.

7. The only apparent menace to this channel appears to be that the enemy might land a force under the lee of the new shore arm of the Point Judith breakwater or other landing place on the mainland and by means of portable guns take the batteries at Forts Greble and Getty in reverse, from the high ground mentioned, but additional sea coast artillery at either Fort Greble or Fort Getty would add little to the defense against this contingency. An infantry force on the main land with headquarters at Boston Neck with perhaps some sea coast guns at Point Judith would be the proper defense against such landing parties.

8. In contradistinction to the shallow, easily mined channel through the western passage, we have in the eastern passage a very deep channel with strong tides where it would be very difficult to

plant and successfully operate submarine mines, which mines must be supplemented by plenty of heavy armor-piercing guns.

9. The present armament is all that can be properly cared for in time of peace by the present or proposed garrison which is not nearly enough to man the guns for one relief. The island would be overcrowded with men should the garrison be increased to give three reliefs in war time by regular or local troops. This post is an exceedingly expensive one to maintain; water is expensive; the present cost I understand is about \$1500.00 per month for half as many men as at Fort Adams, where the cost is only 1-10 that sum. Transportation is also expensive. For these reasons, if any more armament is put on the western passage, it should be on Conanicut Island, or Boston Neck, preferably the former.

10. The present Battery Hale at Fort Greble is in a very unsatisfactory condition; the hoists cannot be operated and the magazines and galleries are very wet. It needs remodeling. The shot trolleys and lifting arrangements should all be taken out; a water-proof white brick and copper room should be built in each magazine, shell room and in each gallery where it is practicable; the shot hoisting passages should be remodeled and modern shot hoists installed. This work will add much more to the defense of the channel than two new 6-inch guns. We have at present available for

work at Fort Greble, \$21,600 for remodeling the 6-inch gun emplacement and \$58,000 for building two new 6-inch gun emplacements. As stated above, the 6-inch gun emplacement can be put in good condition for \$5,000. Battery Hale can be remodeled for \$25,000, including hoists.

It is, therefore, recommended:

First- That the 6-inch gun emplacement at Fort Greble, R.I., be remodeled, at an estimated cost of \$5,000.00.

Second- That Battery Hale, Fort Greble, R.I., be remodeled at an estimated cost of \$25,000.00.

Third- That the battery of three 6-inch disappearing guns at Fort Adams, R.I., be built this year as originally contemplated.

Fourth- That the balance, \$49,600.00, of the amount at present allotted for 6-inch gun emplacements at Fort Greble, R.I., be not re-allotted for the present, pending a report on other features of the defense of this harbor.

It is respectfully suggested that the work at Battery Hale is not properly work of preservation and repair, but is reconstruction work and as the battery is at present unserviceable to the artillery, for drills involving the use of ammunition hoists, it is respectfully requested that its temporary retransfer to the Engineer Department be obtained. The work can be done in about four months.

Very respectfully,

44
M.L.D. 1903.

Newport, R. I.,
Aug. 3, 1903.

Gillette,
Capt. C. E.

to prev. correspondence
matter of substituting a 6"
le, dis. carr., for the 6" Arm-
one rifle now at Fort Greble
to replacing the latter gun
at Fort Adams, and to estimates
a battery of three 6" Arm-
one guns on ped. mts. at Fort
to take the place of three
rifles on dis. carr., for
which allot. was made April 15,
1903, makes report on the sub-
ject - including his views on
the armament for both the east-
ern and western passages - with
recommendations and estimates.

46247

1st Indorsement.
Office Chief of Engineers,
U. S. ARMY.
August 12, 1903.

1. Respectfully returned to Captain Gillette.
2. The changes suggested are not approved. They are not in accord with the views of the Chief of Engineers as to the defenses of Narragansett Bay and would cause this Department to be criticised for a failure to provide emplacements for 6-inch carriages already ordered by the Ordnance Department with funds provided by the last Act of Congress.
3. When the next fortification bill becomes a law, consideration will be given to a new location of the 3-inch guns at Fort Greble. They should then be withdrawn and placed on the extreme western point of the island.
4. This paper to be returned.

By command of Brig. Gen. Gillespie:
Chas. R. Suter
Major, Corps of Engineers

Throug Col. CHAS. R. SUTER,
Corps of Engineers,
Division Engineer, Northeast Division.

2d. Indorsement.
NORTHEAST DIVISION
ENGINEER OFFICE.
New York, August 14, 1903.

Respectfully forwarded to Captain C. E. Gillette, inviting attention to preceding indorsement.

Chas. R. Suter
Colonel, Corps of Engineers,
Division Engineer.

49/4, 1903.

U. S. Engineer Office,
Newport, R. I., August 15, 1903.

1. Respectfully returned to the Chief of Engineers, record made.
2. Concerning the matter of carriages mentioned in the second paragraph of the first indorsement, attention is respectfully invited to the fact that plans were submitted and funds allotted for the construction at Fort Adams of emplacements for three 6-inch guns on disappearing mounts and at Fort Greble for two such guns on similar mounts, to be combined with the existing 6-inch Armstrongs, making a total of five carriages to be provided by the Ordnance Department.

Letter from the Chief of Engineers dated July 24, 1903, (E.D. 46247) and the sixth indorsement on E.D. 46248-6, provide, apparently, for utilizing only three of these carriages.

3. It is understood that the disapproval in the first indorsement applies not only to the recommendations of the within letter, but to the suggestion in the third paragraph that the disappearing guns placed at Fort Adams and the barbette guns at Fort Greble and also disapproves of the suggestion to remodel rather than rebuild the present 6-inch emplacement at Fort Greble. These matters are discussed in my letter of July 124, 1903, which has not yet been returned. I am now 14. My understanding now is that the Chief of Engineers desires that the 6-inch emplacement at Fort Greble be torn out and replaced by a battery of three 6-inch disappearing guns and that plans for three 6-inch Armstrong guns emplacements be prepared for Fort Adams, and the Armstrong gun now at Fort Greble be held for transfer to the place if this is not contrary to instructions to that

effect are respectfully requested.

Ernest Z. Gillette

Captain of Engrs., U.S.A.

38-4704

Thro' Col. Chas. R. Suter,
Corps of Engineers, U. S. A.,
Division Engineer, Northeast Division.

Rec'd back N.Y. Aug. 17, 1903.

4th. indorsement.

NORTHEAST DIVISION
ENGINEER OFFICE.

New York, August 17, 1903.

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

Chas. R. Suter
Colonel, Corps of Engineers,
Division Engineer.

49/4, 1903.

REGD. OFFICE CHIEF OF ENGRS. AUG 18 1903

5th indorsement.

Office Chief of Engineers,

U. S. ARMY.

August 20, 1903.

1. Respectfully returned to Captain Gillette.

2. The 3d and 4th paragraphs of the 3d indorsement form an entirely correct expression of the wishes of this office..

3. To be returned.

Frederic V. Allen
Acting Chief of Engineers.

46248

8

Through Col. CHAS. R. SUTER.

Corps of Engineers,

Division Engineer, Northeast Division.

Rec'd back N.Y. Aug. 21, 1903.

6th. indorsement.

NORTHEAST DIVISION
ENGINEER OFFICE.

New York, August 21, 1903.

Respectfully forwarded to Captain

C. W. Gillette, Corps of Engineers.

Chas. R. Suter
Colonel, Corps of Engineers,
Division Engineer.

49/4, 1903.

RECEIVED U.S. ENGINEER OFFICE, NEW YORK, N.Y. Aug. 27, 1903

Subject: Estimate -3 6" emplacements-Ft. Greble, R.I. 38-4815

U. S. Engineer Office,

Newport, R. I., September 1, 1903.

Brig. Gen. Geo. L. Gillespie,

Chief of Engineers, U.S. Army,

Washington, D. C.

General:

1. In compliance with paragraph 3 of 6th indorsement on E.D. No. 46248-6, I have the honor to inclose herewith tracing showing the proposed three-gun 6-inch battery for Fort Greble, R.I., on disappearing carriages, the two right emplacements being precisely the same as in the approved plan and the other being of the same general type. The location of the two right guns has not been changed.

2. The estimate for constructing this battery on the same lines as the approved plan is as follows:

Material and labor.	Quantity.	Price.	Cost.
Embankment:			
From excavation,	5300 cu.yds.	\$0.30	\$1590
To be bought,	4020 " "	1.00	4020
Excavation: earth,	5900 " "	0.50	2950
rock,	720 " "	1.75	1260
old masonry,	720 " "	1.75	1260
Roadway, sand for,	60 " "	1.25	75
Sodding,	4330 sq."	0.50	2165
Crushed stone,	230 cu."	2.50	700
Concrete: facing (Portl.)	300 " "	12.00	3600
Portland,	4500 " "	8.00	36000
Forms,			2400
Brickwork: facing,	6700 sq.ft.	0.60	4020
walls,	200 cu.yds.	20.00	4000
Carried forward,			<u>\$64040</u>

Material and labor.	Quantity.	Price.	Cost.
Brought forward,			\$64040
Torra cotta tiles,	1700 sq.ft.	\$0.35	595
Waterproofing,	1100 sq.yds.	2.00	2200
Anchor plates,bolts & ring bolts,	45	7.00	315
Twisted steel bars and I beams,	10500 pounds	0.04	420
Doors, windows and frames,(iron)	27	90.00	2430
Speaking tubes,	750 ft.	0.60	450
Hand rails,(iron)	100 "	1.30	130
Ventilators,	12	6.00	72
Corners,(cast iron,)	40	10.00	400
Manholes and covers,	5	70.00	350
Gratings,		75.00	75
Electric conduits,		650.00	650
Drainage,		500.00	500
Water supply (pipes and hydrants)		600.00	600
Painting,		63.00	63
Plant,		2700.00	2700
Guns, moving and mounting,		1560.00	1560
			\$ 77600
Engineering and contingencies,			7760
Total,			\$ 85360

3. \$79,600.00 was allotted May 27, 1903, and an additional allotment of \$5,760.00 is respectfully requested.

Very respectfully,

Cassius E. Swell

Captain of Engrs., U. S. A.

1 inclo.(tr.)

Chas. Col. Chas. B. Suter,
Corps of Engineers, U. S. A.
District Engineer, Northeast Division.

49

N.E.D

1903.

Recd. N. Y. Sept. 3, 1903.

OFFICE OF THE CHIEF OF ENGINEERS

46248

9

Newport, R.I.,
Sept. 1, 1903.Gillette,
Capt. C.E.

In compl. with par. 3, 6th Ind.,
E.D. 46248/6 incloses tracing of pro-
posed 3-gun, 6" battery at Ft. Greble
R. I., Disappg. carriage.
Est. \$85,360.

States that \$79,600 was allotted
May 27, 1903, and requests an addi-
tional allotment of \$5,760.

1 Inc. E.D. (tracing)

Incls. 10 in 9th Files: 8429, 44.37.

File

a

Bureau

9/15/1903

RECD. ENGR. OFFICE CHIEF OF ENGRS. SEP 15 1903

A Inc. 10 accg.

1st. indorsement.

NORTHEAST DIVISION

ENGINEER OFFICE.

New York, September 4, 1903.

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

Colonel, Corps of Engineers,
Division Engineer.

49/5, 1903.

Incls. 6, (tra.) sep. roll.

2d indorsement.

Office Chief of Engineers,

U. S. ARMY.

September 5, 1903.

1. Respectfully returned to
Captain Gillette, approved.
2. An additional allotment of
\$5,760 is hereby made for the pur-
pose from the appropriation for
"Gun and Mortar Batteries," for
construction of gun and mortar bat-
teries, Act of March 3, 1903.
3. To be returned.

By command of Brig. Gen. Gillespie:

Major, Corps of Engineers,

46248

9

Incls. 10 in sep. roll.

Through Col. CHAS. R. SUTER,

Corps of Engineers,

Division Engineer, Northeast Division

3rd indorsement.

NORTHEAST DIVISION

ENGINEER OFFICE.

New York, September 9, 1903.

Respectfully forwarded to
Captain Gillette, inviting
attention to the preceding in-
dorsement.

Colonel, Corps of Engineers,
Division Engineer.

49, 1903.

Incls. 6 (trac.) in sep. roll.

4th indorsement.

U. S. ENGINEER OFFICE,

NEWPORT, R. I. September 10, 1903.

Respectfully returned to the Chief
of Engineers, U. S. Army. The neces-
sary records having been made.

Captain, Corps of Engineers,

Thrd Col. Chas. R. Suter,

Corps of Engineers, U. S. A.,

Division Engineer, Northeast Division,
5th indorsement.

38-46248 NORTHEAST DIVISION

ENGINEER OFFICE.

New York, Sept. 14, 1903.

Respectfully forwarded to
of Captain Gillette.
149 1903. Col. Corps of Engineers, New York.