

Primary Battery File

National Archives, Washington D.C.

Record Group 77

Correspondence of the Chief of Engineers

Entry 103

File, Fort, Battery:

16 440

Ft. Greble

Btty Hale

Subject: Gun Battery, Dutch Island, R. I.

U. S. Engineer Office,

MAJOR D. W. LOCKWOOD,
Corps of Engineers, U. S. A., in Charge.

Newport, R. I.

October 28, 1896.

Brig. General Wm. P. Craighill,
Chief of Engineers, U. S. Army,
Washington, D. C.

General:-

I have the honor to submit herewith, Plans and Specification for the construction by contract, of emplacements for two 10" Guns mounted on disappearing carriages on Dutch Island, R. I.

The contract is intended to cover everything with regard to the emplacements except the construction of the road with gutters in rear of the battery, the cranes in rear of loading platforms, and the fittings of speaking tubes. The holding down bolts of gun platforms will be furnished by the United States but will be set by the contractor.

These emplacements are at the eastern end of a proposed battery consisting of three 10" Guns and two 8" Guns. The observation station and Relocator Room are to be located in or near the salient angle formed by the two faces of the battery.

It is proposed to establish the guns in the present battery at a distance of 52 feet in rear of the line of the pintles of the old 15" gun battery, which will permit of leaving the old concrete magazines where they are; they will thus constitute a part of the new parapet, being filled with concrete for a part of their extent, the rest of their interior space being filled with earth, or concrete if deemed advisable. The plan submitted is for the three 10"

guns on the eastern face of the battery.

The elevations given are above mean low water. Should the plan &c., of the emplacements be approved, it is proposed to construct the two emplacements on the left by contract, and drawings to be shown bidders will include if deemed advisable only those two.

Special drawings showing details will be prepared as soon as possible.

Very respectfully,

Your obedient servant,

Wm. L. Wood

2 Inclosures.

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

1 Specification herewith,
Tracing, rolled separate.

Through Col. John M. Wilson,

Corps of Engineers, U. S. Army,

Division Engineer N. E. Division.

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Head

Corps

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W.L.W.

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OFFICE CHIEF OF ENGINEERS

08 16440 963 130 3

DEPARTMENT

Newport, R.I. Oct. 28, 1896.

od, Major D.W.
orns of Engrs. U.S.A.

ubmits plans and specifica-
for the construction by
act of emplacements for two
uns mounted on disappearing
ages on Dutch Island, R.I.
nclos. & 1 tracing separate

Forward by Air Mail

Specs. 11-16 & more addde
line accompanying
Read back in 1896.
FROM OFFICE CHIEF OF ENGRS. R.I. DIST.
7 article was accompanying

3

NORTH EAST DIVISION
ENGINEER'S OFFICE.

Washington, Oct. 30, 1896.

Respectfully forwarded to
the Chief of Engineers with re-
commendation for favorable consid-
eration.

I have carefully examined
these specifications but have not
made the computations required to
prove the quantities indicated in
par. 74.

The following suggestions
are submitted:

Par. 41- next last line, in-
sert words "measured in position"
as indicated in pencil.

Par. 42- same change in 3rd
line as suggested for par. 41.

Par. 54- Correct so as to
have contractor furnish volts
and incorporate the specifica-
tions therefor, prepared in the
Office of Chief of Engineers.

Par. 74- Include approximate
amount of holding down bolts
for platforms.

Colonel, Corps of Engrs. U.S.A.
Division Engineer, N.E. Division.
(557-No. Ea. Div -1896)

John M. Wilson

2d indorsement.

Office Chief of Engineers,

U.S. ARMY,

Nov. 2, 1896.

Respectfully returned.

The plans are approved, ex-
cepting that ~~that~~ the field of
fire to the westward should be
increased to the full amount ad-
mitted by the carriage.

The emplacements to be built
will be the second and third,
reckoned from the east end of the
battery. The location is ap-
proved, the emplacements being
kept as far to the eastward as
the configuration of the land
will permit, with room left for
the east flank emplacement, to be
built later.

The specifications as modi-
fied in accordance with 1st in-
dorsement were returned, with au-
thority to print, on the 31st ul-
timo.

Tracings of the revised
plans and details of the battery,
together with estimates, are re-
quested.

These papers to be returned.

16440 Acting Chief of Engineers.

3
Specs. 11-16 & more addde

through Col. JOHN M. WILSON,

Corps of Engineers,

Division Engineer, Northeast Division.

3rd indorsement.

NORTH EAST DIVIS
ENGINEER'S OFFICE.

Washington, Nov. 3, 1896

Respectfully trans
Major I. W. Lockwood, Corp
Engineers.

John M. Wilson

Colonel, Corps of Engrs.
Division Engineer, N.E. D
(557-No. Ea. Div. -1896)

4th indorsement.
U.S. Engineer Office
Newport, R.I., November 2

Respectfully returned
Chief of Engineers, U.S.A.,
being invited to the accom-
estimate and plans.

John M. Wilson

Major of Eng
6 Inclosures:

5 in separate roll,
1 herewith.
Thro Col. John M. Wilson
Corps of Engineers, U.
Div. Engr. N.E. Di

NORTH EAST DIVISION

Washington, Nov. 30, 1896.

Respectfully forwarded to
the Chief of Engineers.

The plans appear to be satisfactory, but the estimates for excavation, sod, I beams, white pine lumber, galvanized iron pipe and 8 in. glazed sewer pipe appear to be high.

It is assumed from the closing paragraph that bids have already been received for this work.

Colonel, Corps of Engrs. U.S.A.
Division Engineer, N.E. Division.
(557-No. Ea. Div.-1896)

RECD. OFFICE CHIEF OF ENGRS.

DEC 1

6th Indorsement.

Office, Chief of Engineers,
U. S. Army,
December 3, 1896.

Respectfully returned, approved.

Major Lockwood is requested to make the necessary record and to return this paper and inclosures, together with a tracing of the ammunition lift, with the least delay possible.

In this connection attention is invited to Circular letter from the office of the Chief of Engineers of March 5, 1896.

By command of Brig. Gen. Craighill:

15440
3

A. H. Bush
Captain, Corps of Engineers.

Inclo. 11 accompg.

Inclos. 12-17 in sep. roll.

Through Col. JOHN M. WILSON,

Corps of Engineers,

Division Engineer, Northeast Division.

Subject: Estimate of cost for construction of Gun Battery.

M. S. Engineer Office,

MAJOR D. W. LOCKWOOD,
Corps of Engineers, U. S. Army in Charge.

Newport, R. I., November 27, 1896.

General Wm. P. Craighill,
Chief of Engineers, U. S. Army,
Washington, D. C.

General:-

I have the honor to forward this day in a separate package, a tracing of two 10" gun emplacements on Dutch Island, R.I.; also tracings showing details of Doors, Hinges and Gudgeons, Door Fittings, Man Hole and Cover, and blue print of Ammunition Lift.

The following is the estimate of cost based upon approximate quantities &c., given in proposals:

Excavation,	7,000 cu.yds.	\$1.60	\$11,200.00
Fill, Earth,	3,000 "	.30	900.00
Loam,	800 "	.30	240.00
Sod,	2,350 sq.yds.	.75	1,762.50
Broken stone,	300 cu.yds.	2.00	600.00
CONCRETE:			
Natural Cement,	6,200 cu.yds.	5.50	34,100.00
American Portland:			
Ordinary,	320 cu.yds.	7.50	2,400.00
Granolithic,	130 "	7.50	975.00
Facing,	200 "	10.00	2,000.00
Stone in mass of concrete,	3,500 tons (2240lbs)	2.25	7,875.00
"I" Beams, (Steel)	33,000 pounds,	.05	2,250.00
Steel Trolley Beams & Trolleys,	12,000 "		
Anchor bolts, nuts and plates,	4,300 "	.03	129.00
Lumber (Doors) White Pine,	1,300 ft.B.M.	85.00	110.50
Brass door fittings, including locks,			
fastenings, etc.	1,800 pounds,	.30	540.00
White Pine Strips, (electric connection)	600 ft. F.M.	85.00	51.00
Galvanized iron pipe 1 1/2 inch with fittings,	302 feet.	.40	120.80
Granite steps and curbing,	10 cu.yds.	27.00	270.00
Iron Pipe, 4-inch,	130 feet,	.30	39.00
Sewer Pipe, 8-inch glazed,	385 feet,	.75	288.75
4-inch Porous Drain Tile,	600 feet,	.65	390.00
Brick for Man Holes,	3 M,	16.00	48.00
Man Hole Covers,	2	20.00	40.00
Stairs & hand rails,	2	200.00	400.00
Two Double Lifts complete,			3,000.00
Superintendence & Engineering Contingencies, - -			\$69,729.55
			6,000.00
			\$75,729.55

The above estimate with the exception of the amount for Lifts was made up before bids were received.

Very respectfully,

Your obedient servant,



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

6 Inclosures, rolled separate:
(5 tracings & 1 Blue print)

Through Col. John M. Wilson,

Corps of Engineers, U. S. Army,

Division Engineer, N. E. Division.

OFFICE CHIEF OF ENGL.

DEC. 11 1898
WAR DEPARTMENT

ST. Louis To
- 7.00
+ 5

Col. 1000

copy 1000

Subject: Gun Emplacements- Dutch Island.

U. S. Engineer Office,

MAJOR D. W. LOCKWOOD,
 Corps of Engineers, U. S. A., in Charge

Newport, R. I., April 12, 1897.

Brig. Gen. John W. Wilson,
 Chief of Engineers, U. S. Army,
 Washington, D. C.

General:

I have the honor to submit herewith plans and estimates for three 10" gun emplacements on Dutch Island, R. I. These plans are a combination of two previous plans, one approved by the Chief of Engineers, U. S. Army, on November 2, 1896, Engr. File No. 16640³, for the two emplacements on the west and the other, the flank emplacement, was furnished me under date of December 21, 1896, Engr. File No. 16440²⁰, by the Chief of Engineers.

The original contract said nothing about the old magazine in front of the western emplacement, as it was intended to fill it with concrete, and leave it. It appears advisable, however, after uncovering a part of it to break down the top possibly to the level of the floor and remove it, and also to remove the old brick breast wall and gun platforms for 15" guns in front of the western emplacement. The contractor has been requested to submit a proposition covering the above.

The estimated cost of constructing 3 10" Gun Emplacements on Dutch Island is as follows:

Excavation,	15000 cubic yards @	.30	=	\$ 4500.
Fill, Earth,	7200 cubic yards @	.25	=	1800.
Loam,	1200 cubic yards @	.25	=	300.

2.

Broken Stone,	200 cubic yards, @	2.50	=	500.
Concrete.				
Natural Cement,	9300 cubic yards, @	5.40	=	52920.
American Portland:				
Ordinary,	470 cubic yards, @	7.40	=	3478.
Granolithic,	280 cubic yards, @	8.40	=	2134.
Facing,	350 cubic yards, @	11.00	=	3850.
Stone in mass of concrete,	5250 tons (2340 lbs) @	1.90	=	9975.
"I" Beams, (Steel)	53400 pounds, @	.02 3/4	=	1463.50
Steel Trolley Beams and				
Trolleys,	10000 pounds, @	.04	=	400.
Anchor Bolts, nuts and				
plates,	10500 pounds, @	.03 1/2	=	367.50
Lumber (Doors) White Pine,	2700 feet F.M. @	.20	=	540.
Brass door fittings, includ-				
ing locks, fasten-				
ings, etc.	2000 pounds @	.30	=	600.
White Pine Strips, (electric				
connection)	1000 feet R. M. @	.20	=	200.
Galvanized Iron Pipe 1 1/2				
inch with fittings,	452 feet @	.25	=	113.
Granite Steps and Curbing,	14 cubic yards, @	.27	=	378.
Iron Pipe, 4-inch,	240 feet @	.50	=	120.
Sewer Pipe, 8-inch glazed,	370 feet @	.30	=	111.
4-inch Porous Drain Tile,	900 feet @	.08	=	72.
Brick for Man Holes,	5000 @	.20	=	100.
Man Hole Covers,	3 @	10.	=	30.
Stairs and Hand rails.	3 @	100.	=	300.
Two Double Lifts complete in				
accordance with plan	3 @ 1700.		=	5100.
				<u>90457.</u>
Superintendence and office expenses, and contingencies,				<u>7500.</u>
Total,				<u>\$97957.</u>

Very respectfully,

Your obedient servant,

1 Inclosure, a

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

Through

Col. G. L. Fillepie,

Corps of Engineers,

Division Engineer,

Northeast Division.

RECEIVED *W. A. R. Co. Apr. 15*

OFFICE OF THE ATTORNEY GENERAL

16440

24

Harport, Pa.

April 12, 1899.

of Major A. M.
Chief of Engineers.

to place out. Strands
re 10" Gun Buckle
on shifted Island,
these are (contamination
within place).

Chloroform

1800. ELYON OFFICE CHIEF OF ENGRS. JUN 14 1897
4400. 25, 37 & 38 accm m

REPRODUCED FROM THE NATIONAL ARCHIVES

NORTH EAST DIVISION
ENGINEER, OFFICE.

New York, ...

April 14, 1897.

Respectfully forwarded to the Chief of Engineers. It is recommended that the right flank of the present Co. B be arranged in a manner similar to the left flank of the present Co. B, so as to clear the fire over a wider area of Sharps-gate Bay on the inside. The earth cover to the magazine system on the right left flank of the battery seems needlessly great, and may be economically reduced to the thickness shown on Section C-D in front of the present Co. B. All plans submitted are in general conformity with the recommendations of the Board of Engineers and are therefore recommended for approval.

C. A. Macrae
Colonel, Corps of Engineers.

126-1897
Division Engineer
Chas. Tracy-Separate.

2nd infirmosmith.

Office Chief of Engineers,

U.S. Army

April 23, 1997.

Respectfully returned. The recommendation of the Division Engineer regarding emplacement No. 3 is concurred in, and this emplacement should be arranged as a flank emplacement to give a wider field of fire to the right. A portion of this added field of fire will probably be cut off when the remaining two emplacements of this battery are constructed, but this will not interfere with the future usefulness of the emplacement and will in the meantime more effectually cover the western passage into Narragansett Bay.

The cover on the retired last blank of emplacement No. 1 should be reduced to that shown on section C-D.

With these exceptions, the plans are approved.

The replacements should be removed from flight to left as required by A. R. 548.

Major Lockwood is requested to indicate the desired modifications in emplacement No. 3 on the tracing herewith and after the necessary record, to return these papers.

NORTH EAST DIVISION

ENGINEERING OFFICE

New York, April 24, 1897

Effectually forwarded to
Major Johnston.
G. A. Thompson

Colonel, Corps of Engineers.

Division Engine

126-1897

fect. / in separate cell.

4th indorsement.

U.S. Engineer Office,
Newport, R.I., May 4, 1897.

Respectfully returned to the Chief of Engineers, U. S. Army, accompanied by tracing and bivy print on which modification has been made in accordance with the directions in the 2nd indorsement.

Stichting

Major, Corps of Engineers.

$$\begin{array}{r} 16440 \\ \hline 24 \end{array}$$

44

2019 5-15-20

REC'D. EXCH OFFICE SINGAPORE.
MAY 24 1897

me. 2522 add in

REC'D, CHIEF OF ENGRS. MAY 1 1907

line. 25 cc or 12 1/2

5th
.....indorsement.
NORTH EAST DIVISION
ENGINEER OFFICE.

New York, May 7, 1897.

Respectfully forwarded to the
Chief of Engineers.

The modifications required in
2^d indorsement have been made
upon the tracing.

The Chief of Engineers, under date
of May 3, 1897, approved the

Recommendations of the Board of
Engineers April 28, 1897 that

the two 8-inch N.P. guns
projected for emplacement to

1 & 2, be replaced by three
6-inch R.F. guns, for service

in sweeping the mine fields
and taking part in the general

defense.

In arranging for these rapid
fire guns, it may be possible

to extend still farther the
inside area of the western

passage, to be covered by
the fire of the new battery.

G. L. McCaslin

Colonel, Corps of Engineers.

126-1897 Division Engineer.

1 Incls. tracing, separate.

Recd. Apr. 29/97

6th Indorsement.

Office, Chief of Engineers,
U. S. Army,
May 12, 1897.

Respectfully returned.

The second indorsement heretofore
was written before the project
for the rapid-fire armament for
Narragansett Bay had been received
by this office. By the adoption
of this project the two
8-inch emplacements originally
proposed on the right flank of
this battery are now omitted and
are replaced by three 6-inch
rapid-fire guns. In view of
this modification in the project,
it appears desirable that the
western passage should be covered
farther to the rear by the fire
of the right 10-inch gun. By
placing the front of the right
flank emplacement at an angle of
about 20° with the adjacent front
and arranging it as a flank em-
placement with 170° of fire (60°
to the left of the perpendicular
and 110° to the right) the field
of fire will be extended about
30° more to the rear and right.

As this battery is now no longer
to be extended, the embankment
and concrete on the right flank
should be completed in a manner
similar to that shown on the
left flank.

Major Lockwood is requested to
submit a revised drawing embody-
ing the above changes with return
of these papers.

By command of Brig. Gen. Wilson:

16440

24

Incls. 25

in sep. roll. Captain, Corps of Engineers.

Thro' Col. Gillespie, Div. Engr.

Recd. May 13, 1897

Joseph C. Kuhn

17th indorsement.
NORTH EAST DIVISION

May 13, 1897.
Respectfully returned to
Major Lockwood, inviting
attention to 6th indorsement.

G. L. Gillespie

126-1897.
Incls. 1 in sep. roll.

8th indorsement.

U.S. Engineer Office,
Newport, R.I., May 20, 1897.

Respectfully returned to
the Chief of Engineers, U.S. Ar-
my, with inclosure 25 in sepa-
rate roll, accompanied by a
revised drawing embodying the
changes directed in the 8th
indorsement.

Attention is respectfully
invited to the inclosed letter
of this date and tracing show-
ing field of fire.

Major, Corps of Engineers

16440

34 Thro' Col. G. L. Gillespie,
Corps of Engineers, Div. Engr.,
Northeast Division.

4 Incls. 3 on Recd. May 22/97
May 27/97

4th indorsement.
NORTH EAST DIVISION

May 27, 1897.
Respectfully returned
to the Chief of Engineers

G. L. Gillespie

Colonel, Corps of Engineers,
Division Engineer.

126-1897
Incls. 1, 5-6, separate

REC'D. OFFICE CHIEF OF ENGRS. MAY 28 1897

10th Indorsement.

Office, Chief of Engineers,
U. S. Army,
May 28, 1897.

Respectfully returned.
The plans shown on the revis-
ed drawing are approved.
When such record as may be
necessary has been made, these
papers will be returned to this
office.

By command of Brig. Gen. Wilson:

Joseph E. Kuhn

16440
24 Captain, Corps of Engineers.
Incls. 25, 37 & 38 in sep. roll.
Thro' Col. Gillespie, Div. Engr.

11th indorsement.

NORTH EAST DIVISION
ENGINEER OFFICE.

New York, June 1, 1897.

Respectfully returned
to Major Goodwood.

J. L. Gillespie
Colonel, Corps of Engineers.

126-1897

Incls. 1, 5 & 6, in Sep. roll.

12th indorsement.

U.S. Engineer Office,
Newport, R.I., June 5, 1897.

Respectfully returned to
the Chief of Engineers, U.S. Ar-
my, the necessary record hav-
ing been made.

Major, Corps of Engineers

16440
24

Inlosures 25, 27 and 28
in separate roll.

Through Col. G.L. Gillespie,
Corps of Engineers,
Division Engineer,
Northeast Division.

Recd. M. June 7, 1897.

Recd. M. June 7, 1897.

13th indorsement.

NORTH EAST DIVISION
ENGINEER OFFICE.

New York, June 11, 1897.

Respectfully returned to
the Chief of Engineers.

J. L. Gillespie
Colonel, Corps of Engineers,
Division Engineer.
126-1897.

Incls. 1, 5 & 6, in separate
roll.

Subject: Gun Battery on Conanicut Island, R. I.

U. S. Engineer Office,

MAJOR D. W. LOCKWOOD,
Corps of Engineers, U. S. A., in Charge.

Newport, R. I., December 12, 1896.

Brig. General Wm. P. Craighill,
Chief of Engineers, U. S. Army,
Washington, D. C.

General:-

I have the honor to acknowledge the receipt of Department letter of December 10, 1896, File No. 16440, directing me to prepare and submit plans and estimates for the construction of the three 10-inch Gun Battery on Conanicut Island, R. I.

In connection therewith, I have to state that these plans have been under consideration for some time, and that they can be completed and forwarded at an early date.

Very respectfully,

Your obedient servant,

D. W. Lockwood

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

Through Col. John M. Wilson,

Corps of Engineers, U. S. A.

Division Engineer, N.E. Division.

652	ENGINEER OFFICE, Northeast Division,	1896
RECEIVED Dec 14		

16440
19

Newport, R.I. Dec. 12, 1896.

Lockwood, Major D. W.
Corps of Engrs. U.S.A.

States that plans and estimates for the three 10" gun Batty on Conanicut Isld., requested by Dft. letter of Dec. 10, (16440), have been under consideration some time and can be completed and forwarded at an early date.

Hand signed

Indorsement.
NORTH EAST DIVISION
ENGINEER OFFICE
Washington, Dec. 14, 1896.

Respectfully forwarded to
the Chief of Engineers.

W. H. H. H.
Colonel, Corps of Engrs. U.S.A.
Division Engineer, N.E. Division.
(652-No. Ea. Div.-1896)

Subject: Gun Battery on Dutch Island, R.I.

U. S. Engineer Office,

MAJOR D. W. LOCKWOOD,
Corps of Engineers, U. S. A., in Charge.

Newport, R. I., December 12, 1896.

Brig. General Wm. P. Craighill,
Chief of Engineers, U. S. Army,
Washington, D. C.

General:-

I have the honor to acknowledge the receipt of Department letter of December 10, 1896, File No. 16440, directing me to arrange for the construction of three emplacements for 10-inch guns on Dutch Island, R.I. instead of two, in making the contract for this work.

In reply I would state that I have written Mr. Dudley, to whom the contract for the construction of two 10-inch gun emplacements was recently awarded, on the subject.

In connection with this matter and referring to a conversation in the Office of the Chief of Engineers early in November, I have to state that the eastern gun of this battery can have no fire on the channel north of Dutch Island; at the most it can only cover what is known as Dutch Island Harbor.

In connection with the general subject of covering the channel to the north of Dutch Island, I have the honor to inclose herewith a letter prepared by me shortly after my return from Washington early in November, but which was retained to enable me to reexamine certain features of the situation.

I would respectfully request information as to whether it will be necessary to design an emplacement for the eastern gun of this battery to fire more than about 20° to the rear of the line of

the interior crest. The extreme field of fire to the rear by the left, is about 90° measuring from the interior crest, the extreme line of fire bearing North 24° East.

The information &c., required in the two concluding paragraphs of the above mentioned letter will be forwarded as soon as it can be prepared.

very respectfully,

Your obedient servant,

1 Inclosure.

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

Through Col. John M. Wilson,

Corps of Engineers, U.S.A.

Division Engineer N.E. Division.

1st indorsement
NORTH EAST DIVISION

ENGINEER OFFICE

Washington, Dec. 14, 1896.

Newport, R.I. Dec. 12, 1896.

1, Major D.W.
Ops of Engrs. U.S.A

REPRODUCED FROM THE NATIONAL ARCHIVES

knowles receipt of Dept
of Dec. 10, (18440), as to
sld. battery. Mr. Dudley to
s written was let for
a contract was let for
emplacements.

as that east gun of
battery can have no fire
in north of Dutch I. Har
in only cover Dutch
requests information wheth-
er emplacement for east
fire more than 20° to the
rear of line of interior crest.
Information requested in
above Dept. letter will be furn-

ished as soon as possible.
Incloses letter on subject
of covering channel north of
Dutch Isld. (1 inclos.)

RECEIVED BY THE ENGINEER OFFICE
Dec. 12 21 21 with inc. accmly.

2nd indorsement
NORTH EAST DIVISION

ENGINEER OFFICE

Washington, Dec. 14, 1896.

Respectfully forwarded to
the Chief of Engineers concur-
ring in the views of Major Lock-
wood as expressed in his letter
of Nov. 7th, transmitted herewith.

Major Lockwood refers in
his letter of Dec. 12th, to a con-
versation in the office of the
Chief of Engineers early in Nov-
ember; I assume from his lan-
guage that it was in regard to
the field of fire of the eastern
gun of the proposed battery; I
concur in his views that the gun
can have no fire on the channel
north of Dutch Island, and I re-
commend that he be requested to
design an emplacement for this
eastern gun which will afford as
broad a field of fire to the
rear by the left, as is practic-
able, so as to cover as much as
is possible of what is known as
Dutch Island harbor.

Colonel, Corps of Engrs. U.S.A
Division Engineer, N.E. Division.
(557-No Ea.Div.-1896)

3rd indorsement
2nd indorsement.

Office Chief of Engineers,

U.S. Army,

December 21, 1896.

Respectfully returned. The Di-
vision Engineer regarding the
field of fire of the eastern gun
is concurred in.

Owing to the remote and uncer-
tain date when centre pindle dis-
appearing carriages may be ex-
pected, it is thought advisable
to utilize the present front
pindle carriage model 1896, for
the eastern emplacement. By
breaking back the crest of the
flank emplacement and arrang-
ing it for 170° field of fire,
practically the whole of Dutch
Island Harbor will be covered.

The disposition of the flank
emplacement as outlined above
and its connection with the
adjoining emplacement are shown
on the accompanying tracing
prepared in this office for
Major Lockwood's guidance.

The question of centre pindle
carriages for the eastern flank
gun of this battery and for the
fox hill site is reserved for
future consideration.

After the necessary record,
the return of this paper and
its enclosures is requested.

18440

Acting Chief of Engineers.

557-20, 21 accompanying
12 and 13 with inclos. in separate
through Col. JOHN A. WILSON,

Corps of Engineers,

Division Engineer, Northeast Division.

3rd indorsement
NORTH EAST DIVISION

ENGINEER OFFICE

Washington, Dec. 22, 1896

4th indorsement.

U. S. Engineer Office,
Newport, R.I., April 12, 1897

Respectfully returned to
the Chief of Engineers, U. S. A.
Incloses plan and e
notes for 3 Emplacements.

Major, Corps of Engineers.
18440
20

3 Inclosures accompanying, and
3 Inclosures in separate roll

through

Col. G. L. Allen,

Corps of Engineers,
Division Engineer,
Northeast Division

Subject: Defenses of Narragansett Bay, R.I.

U. S. Engineer Office,

MAJOR D. W. LOCKWOOD,
Corps of Engineers, U. S. A., in Charge.

Newport, R. I., November 7, 1896:

Brig. General Wm. P. Craighill,
Chief of Engineers, U.S. Army,
Washington, D. C.

General:-

Referring to a recent discussion of the defense of the western entrance to Narragansett Bay, I have the honor to submit the following with regard to covering the channel north of Dutch Island.

1st. A gun mounted on a center pintle carriage in the west flank of the Battery on Dutch Island will cover the channel north of Dutch Island.

2nd. A gun mounted as above in the east flank of the Battery will only cover what is known as Dutch Island Harbor, and will not command the channel to the north of the Island unless located on the north eastern side of the Island or on the highest part of same.

3rd. No gun mounted on Fox Hill, the reference of which is about 30 to 35 feet, would have much command over the channel north of Dutch Island as that Island would almost entirely mask its fire in that direction. Dutch Island harbor and the channel west of Dutch Island would however be thoroughly covered by a gun in this locality mounted on a center pintle carriage. Such a gun would cover a part of the channel to the north of the Island i.e. that part to the east of a line drawn through the gun's position and tangent to the Island at the horizontal having the same reference as the gun.

-2-

It will thus be seen that fire to the rear to any general extent, can only be obtained for one gun i.e. the one first described, but that its fire in connection with that from the guns last mentioned would cover the area north of the Island.

Very respectfully,

Your obedient servant,

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

Through Col. John M. Wilson,
Corps of Engineers, U.S. Army,
Div. Engineer, N. E. Div.

657 Enc 1 6

Newport, R. I.
Nov. 7, 1896.

Lockwood, D. W.
Major of Engineers.

Remarks as to what territory
certain guns mounted on Dutch
Island, R.I. would cover north
of said Island.

16440
21

Subject: Gun Battery- Dutch Island.

U. S. Engineer Office,

MAJOR D. W. LOCKWOOD,
Corps of Engineers, U. S. A., in Charge

Newport, R. I., May 20, 1897.

Brig. Gen. John M. Wilson,

Chief of Engineers, U.S. Army,

Washington, D. C.

General:

I have the honor to submit the following with reference to the proposed 3-10" gun battery on Dutch Island, R.I., plans for which are forwarded this day in a separate package.

The plans were prepared in accordance with instructions contained in 6th indorsement on Engineer File No. 13440-24.

The project for the defence of the Western Entrance to Narragansett Bay dated October 28, 1892, provided for one gun-lift battery on Fox Hill for five 12-inch guns; one 5-gun disappearing battery on Dutch Island and one 16-mortar battery. The 5-gun battery on Dutch Island was to consist of three 10-inch guns and two 8-inch guns, the latter mounted on the west flank of the battery.

Under date of April 28, 1897, the Board recommended the omission of the two 8-inch guns on Dutch Island," provided * * * and that the two 8-inch guns to be mounted on Dutch Island be retained unless at least three of the rapid fire guns finally adopted for sweeping the western passage be of 6 inches calibre". The Board also states, "The heavy rapid fire guns should be mounted in permanent emplacements, so located as to sweep the mine fields and to take part in the general defence."

The present plan for the three 10-inch guns is to make a separate battery for them, and the arrangement of the emplacement for the western gun makes it impossible to locate the three heavy

Rapid Fire guns on the Island so that they will fully meet the conditions imposed by the Board, "sweep the mine fields and to take part in the general defence," without having one or more of the 10-inch guns fire over them.

It had been my intention to locate the 6-inch Rapid Fire guns just west of the 10-inch guns or where the 8-inch guns were located according to the original plan, in which locality they would cover the entire channel of approach and sweep the mine fields on both sides of the Island, or in case the site on Fox Hill should be found too contracted for the five 12-inch guns, even at reduced intervals, to put two of them where the 8-inch guns were to have been placed, and arrange the extreme western emplacement for fire to the north, but this would necessitate placing the 6-inch Rapid Fire guns so that the heavier guns would fire over them.

There is forwarded with the plan of the 10-inch gun battery a tracing showing field of fire for that battery, and also for the 12-inch guns to be mounted on Fox Hill. The red lines in the latter case are those of the Board of Engineers, the guns being mounted in lifts. The blue lines show the fields of fire, the guns being mounted on disappearing carriages, except that the field of fire should be limited to 120° for all but the flank emplacement next the channel.

Very respectfully,

Your obedient servant,

1 Inclosure, in roll.

Through
Col. G. I. Gillespie,

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

Page 1

June 1

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Wickert, Dr. O.
May 20, 1897.

and Major Sir.
C. J. A. G. G. G. G.

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RECD. BLACK OFFICE CH OF ENGRS. JUN 25 1897

1st indorsement.
NORTH EAST DIVISION
ENGINEER'S OFFICE.

New York. June 2, 1897

Respectfully forwarded to the
Chief of Engineers.

The construction according to which the plans are authorized are contained in 6th endorsement, Office Chief of Engineers, dated 12, 1897, on Coast Artillery report authorizing plans and estimates for ten 10" gun equipments on Dutch Island, April 12, 1897. The estimate by the Chief of Engineers, the ten 10" guns were considered as battery, the funds being arranged to cover in a good degree the water area in case of a shell upon both sides of the island. The construction and irregularity of the site requires the disadvantage that the local office has also in regard to the heavy battery firing over the rapid fire battery at or near the extreme western extremity of the malar high power gun. This condition cannot be properly provided against, but it is believed that the rapid fire gun

can be located near the
most margin of the island,
on forest ground, in a way
to reduce this objection to
a minimum, and give the
game a good view of the
driving field in the case
of a failure in advance of
shot skill.

Ohio announced that the
high tower falling has un-
dermined, with the least
delay practicable, according
to the plans approved by the
Chief of Engineers, May 12, 1971,
and that the location of the
6" pipes five feet, to make
the subject of a future com-
munication after the whole
question has been studied
in connection with the mud-
slide plans for minor repairs.
This report was held consid-
ered to be the order for
consequence been delayed in
transmission to the Chief of
Engineers.

The river was to be
offered report was the being
reopening of it without
this Office, May 27, 1971, and

Returned from the Chief
of Engineers to 10th Indiana
with delay 28, 1897. At
will be returned later to
the Chief of Engineers by
the local officer.

J. A. Hucelyn
Colonel, Corps of Engineers,

Division Engineer.

$\frac{126}{4}, 1897.$

2nd Indorsement.

Office, Chief of Engineers,
U. S. Army,
June 5, 1897.

Respectfully returned.

The consideration which influenced the Department to adopt the design of the 10-inch gun battery for Dutch Island, finally approved under date of May 12, 1897, was to cover the greatest area of waterway possible with the limited fire type of carriages now available. In the absence of definite information as to the location of the 6-inch rapid-fire guns proposed by the Board of Engineers on Dutch Island and as to the modifications in the mine field now undergoing study, it was impracticable without an undesirable loss of time to consider

the effect the increased field of fire of the right 10-inch gun might have on the location of the rapid-fire guns. The principal object in view was to secure the maximum immediate results from the construction of the 10-inch battery, and this the design adopted is believed to do.

If it should prove desirable to reduce the field of fire of the right gun at a later time, in order to afford a safer and better position for the 6-inch rapid-fire guns, this may be done.

The Ordnance Department now supplies traversing stop pins with gun carriages, which limit the azimuth of the gun to any desired field of fire.

The recommendation of the Division Engineer that the 10-inch gun battery be constructed with the least delay practicable is approved.

The question of the best location of the rapid-fire guns can be determined when the revised location of the mine fields becomes known, and it is believed that the matter can then be satisfactorily adjusted.

To be returned.

By command of Brig. Gen. Wilson:

Captain, Corps of Engineers. 16440

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39

Through Col. G. L. GILLESPIE.

Corps of Engineers.

Division Engineer, Northeast Division.

Recd. N.Y. June 7, 1897.

3rd. indorsement.

NORTH EAST DIVISION

ENGINEER OFFICE.

New York, June 11, 1897.

Respectfully returned to Major Lockwood.

J. L. Gillespie

Colonel, Corps of Engineers,
Division Engineer.

126, 1897.

4

4th indorsement.

U.S. Engineer Office,
Newport, R.I., June 12, 1897.

Respectfully returned to the Chief of Engineers, U.S. Army. In connection with the recommendation of the Division Engineer, approved by the Chief of Engineers, U. S. Army, that the 10-inch battery be constructed with the least delay practicable, it is respectfully submitted that this work is under contract and that the date of completion as fixed in the contract is November 1, 1897.

Major, Corps of Engineers.

Through Col. G. L. Gillespie,
Corps of Engineers, Div. Engr.
Northeast Division.

Recd. N.Y. June 14, 1897.