*Salvage of armament approved by AC of S 1/22/43 — 400.93 (New York) 29085

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Gun and Mortar Batteries)

COAST DEFENSES OF Sandy Hook
FORT Hancock, N.J.
BATTERY Granger

Form 1. Corrected to July 1, 1921 *No. of guns 2 Caliber 10" Carriage Dis

Battery commenced	1896	Sources of electric current	C.P.P.Bloomfield #1; 25 KW.set & Alexander 25 K.W.sets
Battery completed	1898		
Date of transfer	Mar.22,1898	Max. kw. required for lights	4-1/20 K.W.
Material of construction	Cyclopean conc.	Max. kw. required for motors	14-3/4 K.W.
Portland or Rosendale cement	Rosendale		
Cost to date of transfer	$87,300.00		
Connected to water supply	Yes	Present condition battery	Good
Connected to sewer	-	Rooms wet or dry	Fairly dry
Type of latrine	-		
Type of data transmission	Telephone	How ventilated	Through doorways, passages and air spaces
Trunnion elevation in battery	Emp.#1;33.373 " #2;33.431	Remarks:-	Battery "modernized", platforms widened
Datum plane	M.L.W.		

ARMAMENT

Emplacement or Motor No.	Guns or Motors: Cal.	Length	Model	Serial No.	Mfgr.	Mounted	Carriages: Type	Model	Ser.No.	Manufacturer	Motor
1	10"		1888MII	#61	Watervliet Ars.	Yes 1898	Dis	1896	#19	Bethlehem Iron Co.	Yes
2											
3											
4	10"		1888ML	# 36	do.	do.	do.	do.	#20	do.	Yes
5											
6	To be replaced with guns #5 and #10;										
7	M-1895, now in storage at Ft. Hancock,										
8	after above guns outlive their usefulness,										

see 1st Ind., 660.2-18.

HOISTS

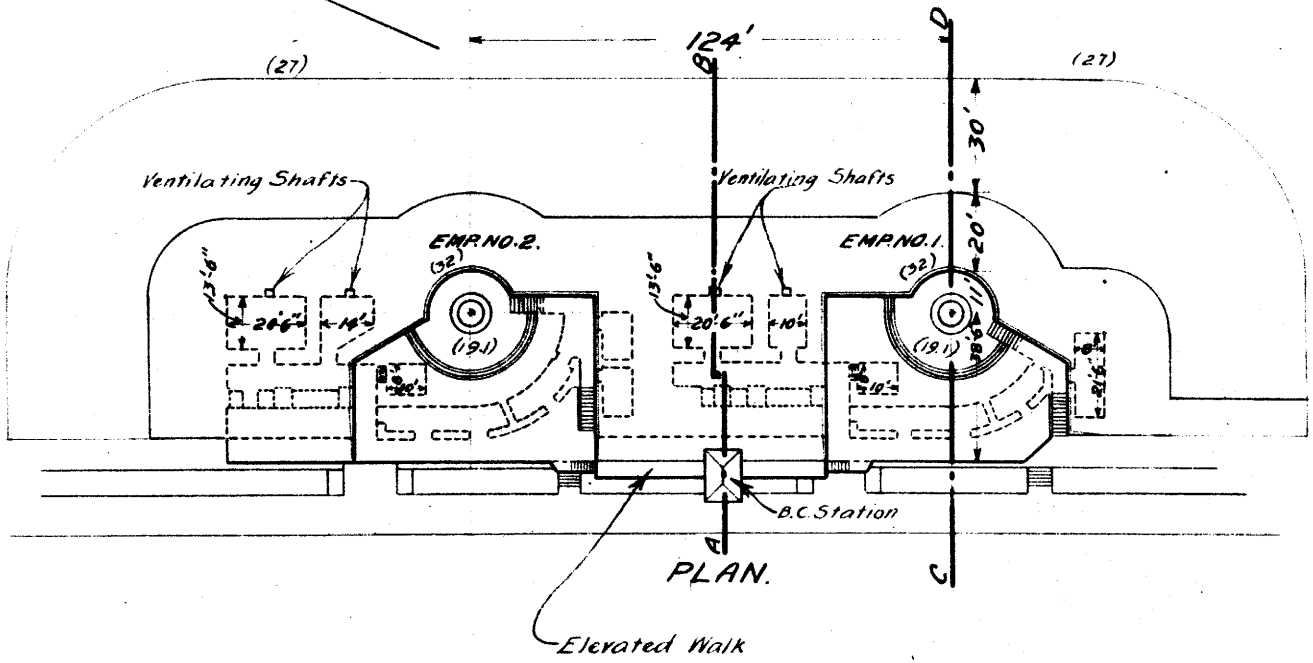
Emplacement Number	Type	Delivery	Motor: Ser.No.	Makes	H.P.	Volts	RPM	Type of control	Date of Transfer	Remodeled for long points.
1		Back	88876	G.E.	5	110	1060	R/67	July 6,1905	Yes
2		"	91117	" "	5	110	1060	R.67	do.	yes
Powder 1	A		179123	" "	3	110	1060	R.96 A	Aug. 17,1911	—
Powder 2	A		178767	" "	3	110	1060	R.96 A	do.	—

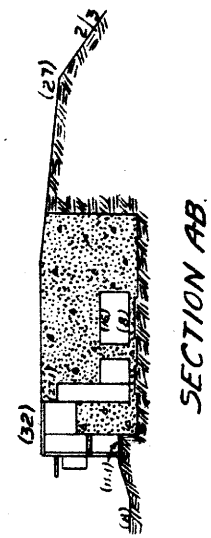
See copy of 7th Ind., 471.88 (Sandy Hook)/3 relative to disposition, which is attached

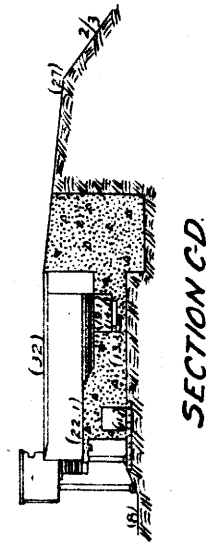
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

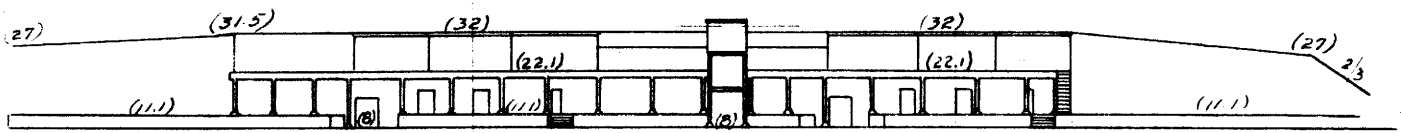
Corrected to July 1, 1921.

COAST DEFENSES OF SANDY HOOK.
FORT HANCOCK.
BATTERY GRANGER
No. of Guns 2 Caliber 10" Carriage Dis.
Scale:- 1"=50'







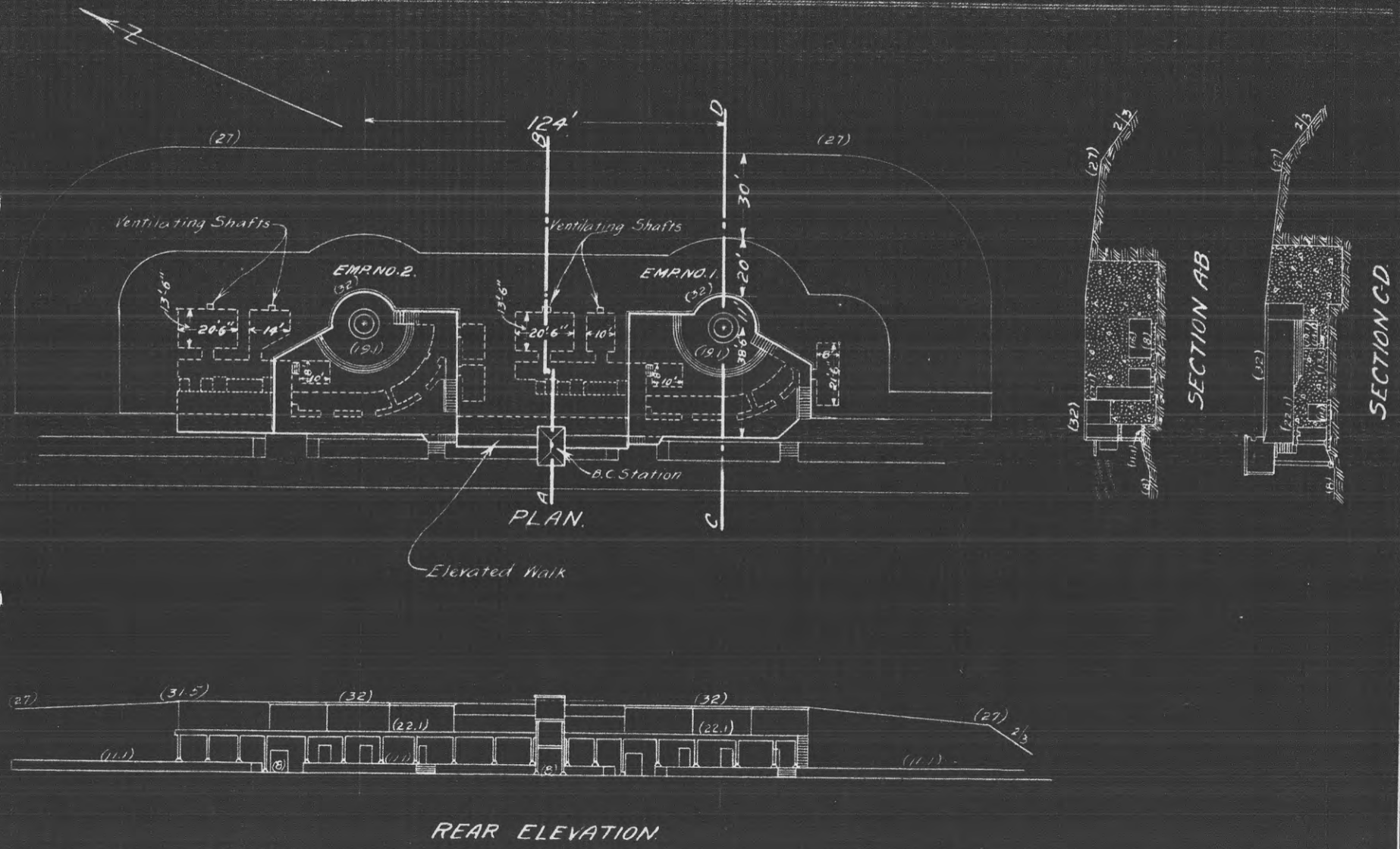


REAR ELEVATION.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

Corrected to July 1, 1921.

COAST DEFENSES OF SANDY HOOK.
FORT HANCOCK.
BATTERY GRANGER
No. of Guns 2 Caliber 10" Carriage Dis.
Scale:- 1"=50'



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COAST DEFENSES OF Sandy Hook

FORT Hancock BATTERY Granger NO. OF GUNS: 2 CALIBER: 10'

	Emplacement Number 1.		Emplacement Number 2.		Emplacement Number 3		Emplacement Number 4	
1- a. Azimuth	336° - 0'		156° - 0'					
b. Distance.	1032'		124'					
2- a. Model of Gun.	1888MII #61		1888MI #36					
b. " " Carriage	1896 #19		1896 #20					
c. Type of "	Dis.		Dis.					
3- Elevations of.	- -		- -					
a. Gun trunnions (in battery.)	33.48		33.48					
b. Interior crest.	32.02		32.00					
c. Loading platform.	22.1		22.1					
4- Angle of depression.	0°		0°					
	From.	To.	From.	To.	From.	To.	From.	To.
5- Limiting azimuths of field of fire as determined by:	° '	° '	° '	° '	° '	° '	° '	° '
a. Construction of emplacement.	185.26	332.03	156.44	301.36				
b. Interference by adjacent emplacements.	185.26	332.03	156.44	301.36				
	185.26	187.23	168.84	189.50				
c. Interference of other obstacles external to emplacement.	188.00	298.17	190.92	301.36				
d. Position of ordnance stops.	185.26	328.03	156.44	297.36				

NOTES.

1. Azimuth and distance of emplacement No.2 are given with reference to No.1; of No.3, with reference to No.2, etc. Azimuth and distence of No.1, are given with reference to Bolt on Gun Lift Battery.

3. Above plane of M.L.W.

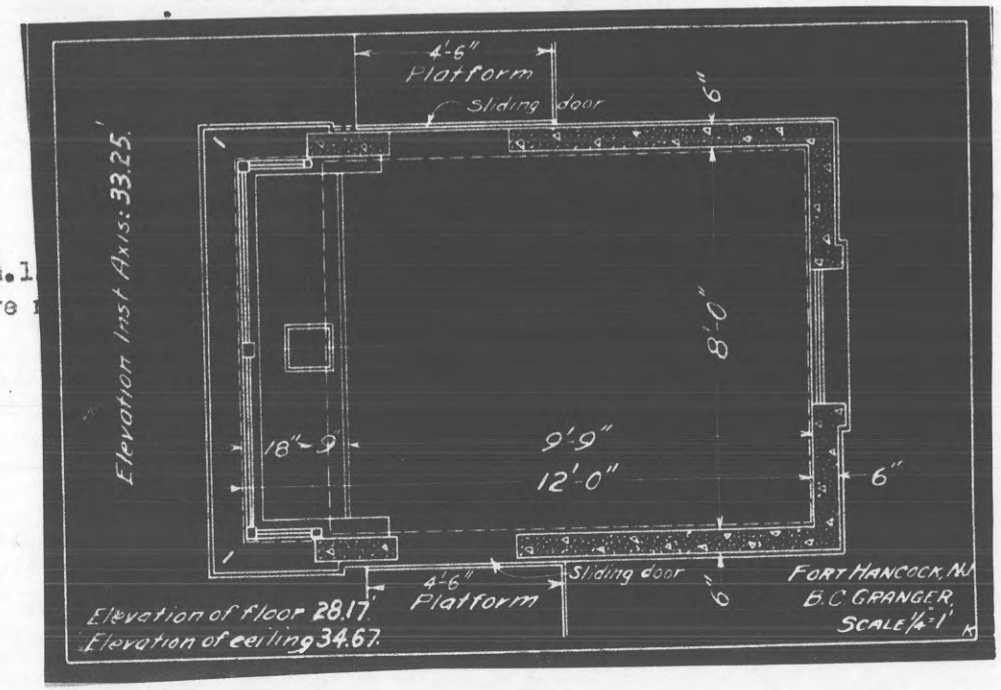
5-c Nature of obstacles: Gun No.1-Dead angle-Trees-298°.17 to 332°.03 AZ. (Trees can out away)
" " " " " Ord.Range Tower-187°.23 to 188°.00 AZ.
Gun No.2-Dead angle -Gun Lift (Batty Potter) & Batty Richardson = 156°.44 to 168°.84 AZ.
" " " " " Ord.Range Tower = 189.50 to 190°.92 AZ.

2-c Use one of following abbreviations or designations: Dis.; Nondis.; Alt. gun-lift, Turret; Casemate; Ped.; B.P.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Fire control and torpedo structures)

Form 2 Corrected to July 1, 1921

COAST DEFENSES OF Sandy Hook
FORT Hancock, N.J.
STRUCTURE B.C.Granger

Location	On center traverse of Battery Granger.
Date of transfer	Sept.20,1907.
Cost to date	$3000.00
Type of construction	
(a) Roof	Concrete
(b) Remainder of building	Concrete
How concealed	Battery Granger
How protected	do.
Height above concealment	About 3 ft.
Height above protection	do.
Conspicuous at 5000 ± yards	Yes
Source of electric current	Emp.Sw.Box;C.P.P.Bloomfield and Alexander
Kilowatts required	.20 K.W.
Type of lighting fixtures	Wall lamps
How heated	No heat
Connected to water mains	No
Connected to sewer	No
Type of latrine	None
Permanent or temporary installation	Permanent
Present condition	Good
Reference of site	8.0 ft.above m.l
Reference of instrumental axis	33.25 ft. above
Type of observing instrument	-
Type of plotting board	-
Type and capacity of crane	-
Max. dimensions of reel handled	-

Type of data transmission	-
Date of transfer	-
Cost of data transmission equipment.	-
For tide stations give description of tide gauge.	-
For datum points give Forts from which visable	-
For dormitories give stations served	-
For cable hut give S.C.type	-