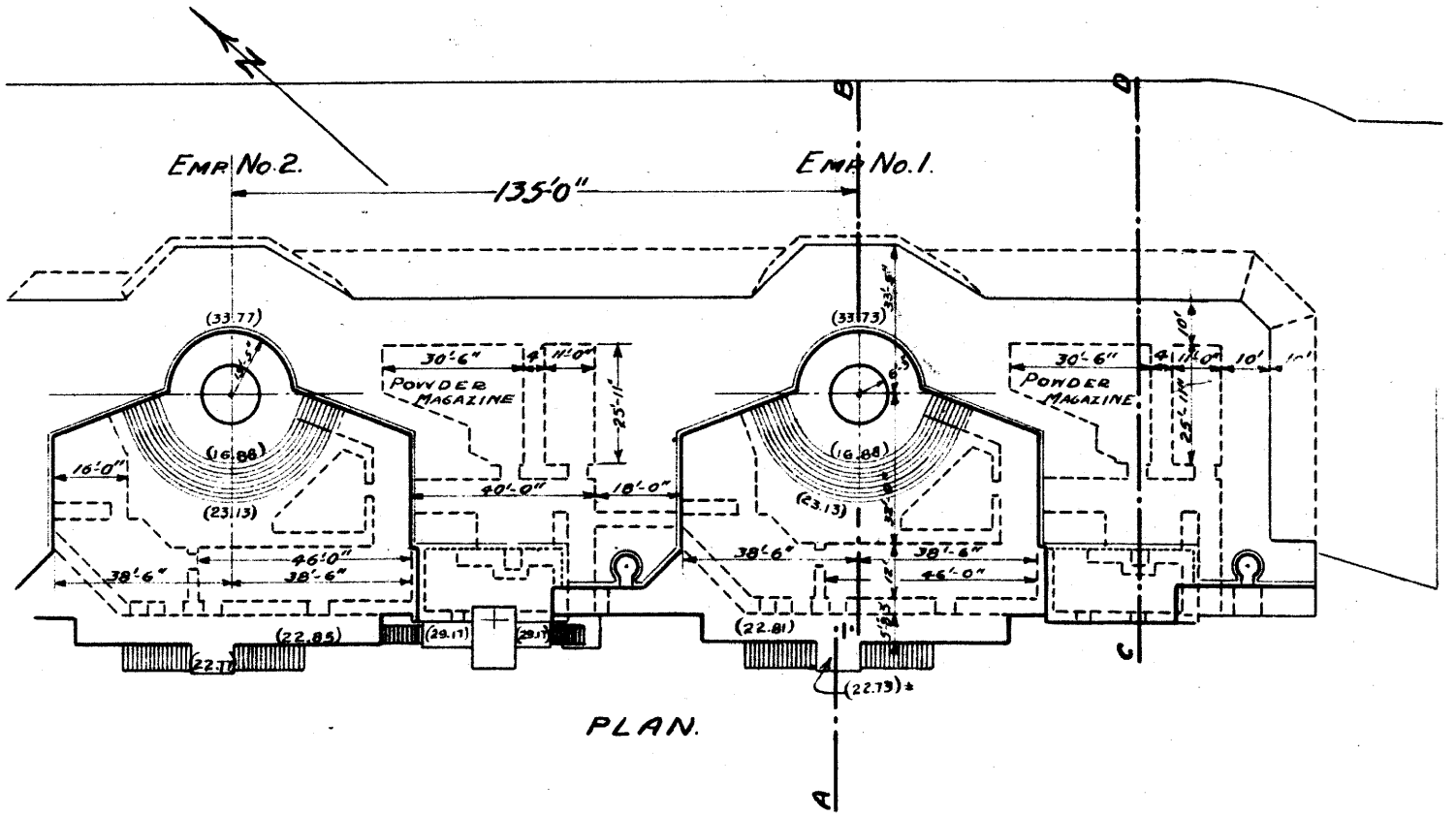
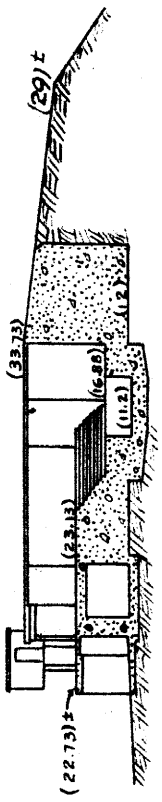
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

Corrected to July 1, 1921

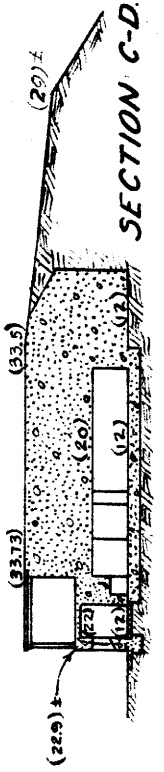
COAST DEFENSES OF SANDY HOOK.
FORT HANCOCK.
BATTERY JOSEPH BLOOMFIELD.
No. of Guns 2. Caliber 12" Carriage D.
Scale 1"=40'



PLAN.



SECTION A-B.



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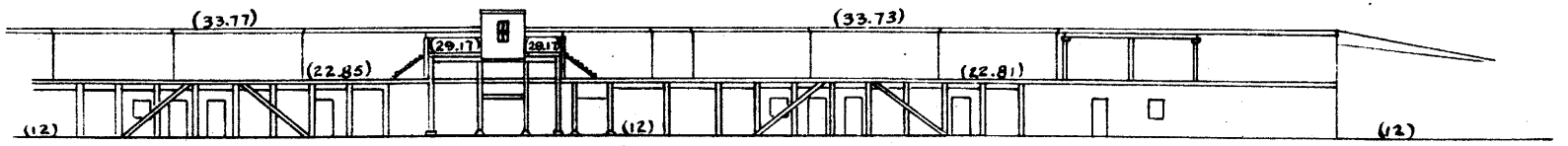


REAR ELEVATION.

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

COAST DEFENSES OF Sandy Hook
FORT Hancock
* BATTERY Bloomfield
No. of guns 2 Caliber 12" Carriage Dis

Form 1 Corrected to July 1, 1921

Battery commenced	1898	Sources of electric current	C.P.P.Bloomfield #1; 25 K.W. and Alexander 25 K.W. sets
Battery Completed	1899		
Date of transfer	Dec.20,1899	Max. kw. required for lights	6-1/2 K.W.(K.W.based on 50 watt lamps)
Material of construction	Concrete	Max. kw. required for motors	29 K.W.
Portland or Rosendale cement	Portland		
Cost to date of transfer	$94,227.89		
Connected to water supply	Yes	Present condition battery	Good
Connected to sewer	-	Rooms wet or dry	Dry
Type of latrine	-		
Type of data transmission	Telephone (Emp.#1;35.565 (" #2;35.575	How ventilated	Through doorways, passages and air spaces.
Trunnion elevation in battery		Remarks:-	Battery "modernized" - platforms widened.
Datum plane	M.L.W.		

ARMAMENT

Emplacement or mortar No.	Guns or Mortars						Carriages				
	Cal.	Length	Model	Serial No.	Manufacturer	Mounted	Type	Model	Serial No.	Manufacturer	Motor
1	12"		1888M1/2	#43	Watervliet Ars.	yes 1899	Dis	1896	# 22	Morgan Eng.Co.	Yes
2	12"		1888	do. #42	do.	do.	Dis	1896	# 19	do.	Yes
3											
4											
5											
6											
7											
8											

HOISTS

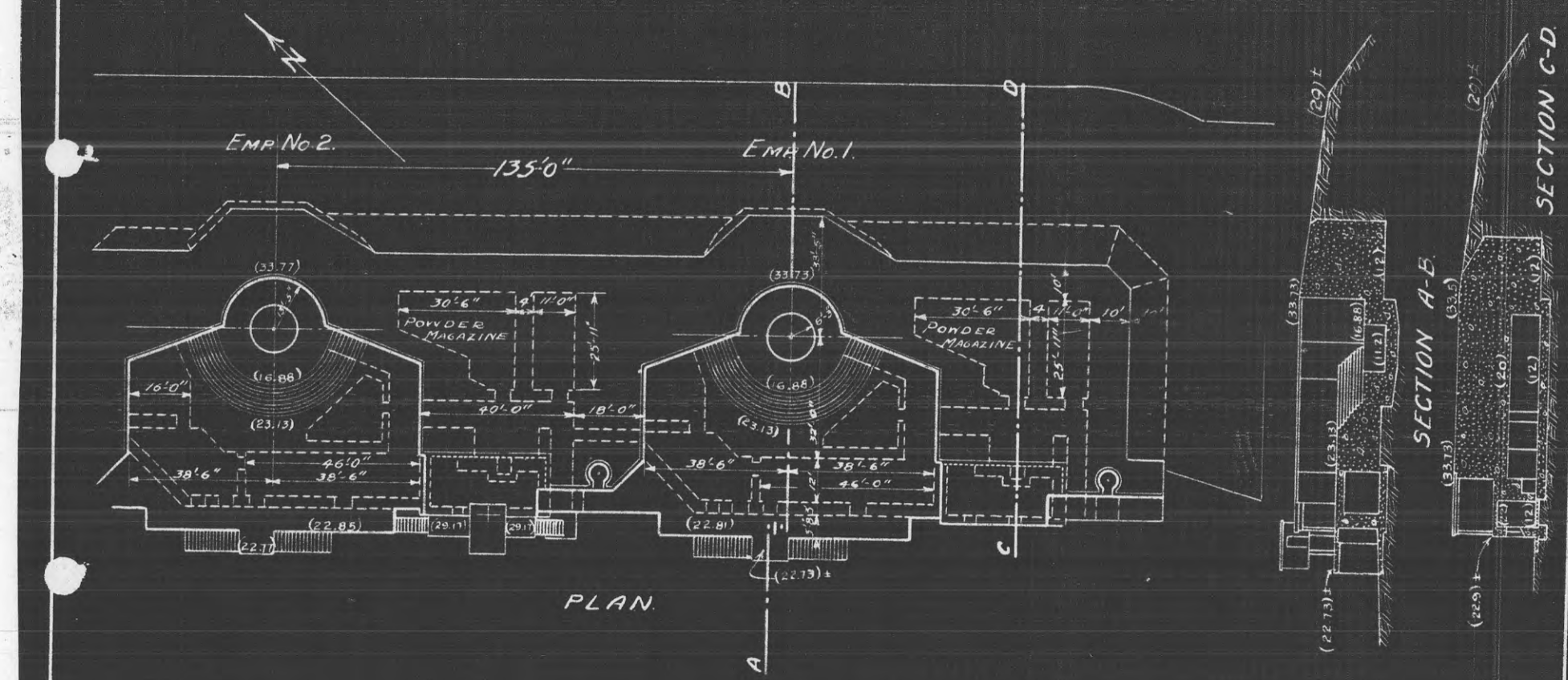
Emplacement Number	Type	Delivery	Motor						Date of transfer	Remodeled for long points
			Serial No.	Maker	H.P.	Volts	RPM	Type of control		
1	T.R.	Back	652236	G.E.	7½	110	800	Contractor controller	Sept.20,1917	Yes
2	do.	do.	642530	G.E.	7½	110	800	do. do.	do.	Yes
3										

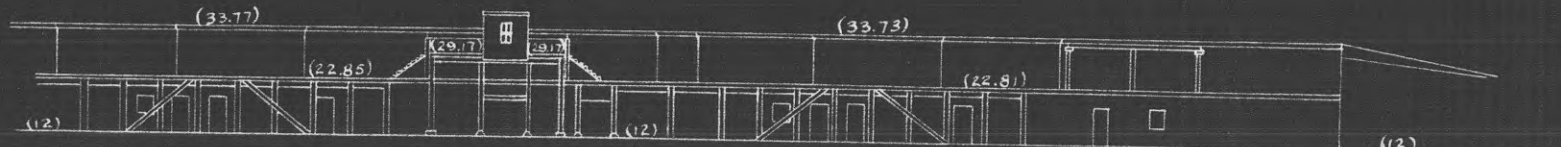
*Salvage of armament & accessory equipment directed by ASF 11/27/43 — 400.93(New York)CM 74659

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

Corrected to July 1, 1921

COAST DEFENSES OF SANDY HOOK.
FORT HANCOCK.
BATTERY JOSEPH BLOOMFIELD.
No. of Guns 2. Caliber 12" Carriage D.
Scale 1"=40'





REAR ELEVATION.

K

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

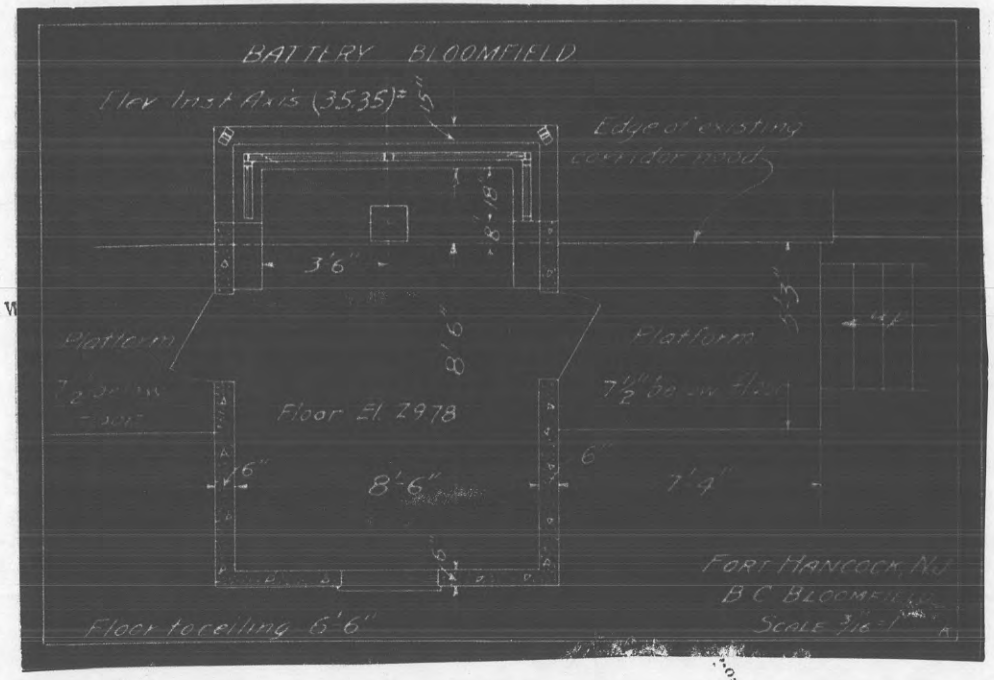
COAST DEFENSES OF Sandy Hook

FORT Hancock, N.J.

STRUCTURE B.C. Bloomfield

Form 2 Corrected to July 1, 1921.

Location	In rear of center traverse of Battery Bloomfield.	Type of data transmission	-
Date of transfer	June 27,1921.	Date of transfer	-
Cost to date	$3,537.55	Cost of data transmission equipment.	-
Type of construction			
(a) Roof	Concrete	For tide stations give description of tide gauge.	-
(b) Remainder of building	concrete		
How concealed	Partially by Battery Bloomfield.	For datum points give Forts from which visable	-
How protected	do.		
		For dormitories give stations served	-
Height above concealment	About 3 ft.		
		For cable hut give S.C.type	-
Height above protection	" " "		
Conspicuous at 5000 ± yards			
Source of electric current	Central Power Plant, Bloomfield and Alexander 25 KW. sets.		
Kilowatts required	.20 KW.		
Type of lighting fixtures	Wall light		
How heated	None		
Connected to water mains	No		
Connected to sewer	No		
Type of latrine	None		
Permanent or temporary installation	Permanent		
Present condition	Good		
Reference of site	12.0 ft. above m.l.w.		
Reference of instrumental axis	35.0 ± ft. above m.l.w		
Type of observing instrument	None installed		
Type of plotting board	"		
Type and capacity of crane	-		
Max. dimensions of reel handled	-		



COAST DEFENSES OF Sandy Hook

FORT Hancock BATTERY Bloomfield NO OF GUNS: 2 CALIBER: 12"

	Emplacement Number 1.	Emplacement Number 2.	Emplacement Number 3	Emplacement Number 4
1- a. Azimuth	137° - 30'	137° - 30'		
b. Distance.	145' - 0"	135' - 0"		
2- a. Model of Gun.	1888 Ml½ #43	1888 Ml½ #42		
b. " " Carriage.	1896 #22	1896 #19		
c. Type of "	Dis.	Dis.		
3- Elevations of.	-	-		
a. Gun trunnions (in battery.)	35.71	35.71		
b. Interior crest.	33.73	33.77		
c. Loading platform.	23.13	23.13		
4- Angle of depression.	0°	0°		

5- Limiting azimuths of field of fire as determined by:-	From.	To.	From.	To.	From.	To.	From.	To.
	° '	° '	° '	° '	° '	° '	° '	°
a. Construction of emplacement.	151.72	296.21	152.99	296.87				
b. Interference by adjacent emplacements.	151.72	296.21	152.99	296.87				
c. Interference of other obstacles external to emplacement.	151.72	296.21	152.99	296.87				
d. Position of Ordnance stops.	151.72	296.21	168.59	296.87				

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 distance of No.1, are given with reference to #2 Richardson gun center

3. Above plane of M. L. W.

5-c. Nature of obstacles None

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

No. 1 Gun strikes emplacement before reaching stops, both right and left.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Electric Plants)

COAST DEFENSES OF SANDY HOOK
FORT HANCOCK, N.J.
POWER FOR Reserve (Batteries Bloomfield, Richardson, Halleck, Alexander.)

Form 5. Corrected to Sept. 28, 1921.

(Bloomfield No.1)

	Serial No.	Type	Size	Mfgr.	Date of transfer	Cost	Condition	RPM	Belt or Direct Drive	Radiator for Engine No.	Fuel	Switchboard Material	Switchboard No. of Panels
Boi. No. 1													
No. 2													
No. 3													
Engine No. 1	14493	G.M.12	43/54 H.P.	G.E.			Good	560	Direct		Gasoline.		
No. 2													
No. 3													
No. 4													
Generator No.1	679225	M.P.C.	25 K.W.	G.E.		$4,700.	Good	560	Direct				
No.2													
No. 3													
No. 4													
Radiator No. 1	14890	F.F.54		G.E.			Good			14493			
No. 2													
No. 3													
No. 4													
Motor-Generator s													
No. 1	931373												
No. 2													
No. 3													
Swi nboard	149	Dis.	82" x 20"				Good					Marble	1-Dis
Storage Battery													
Transformer													
No. 1													
No. 2													
No. 3													
Auxiliaries													
Fan Mptor No. 1	931373	C.V.C.	2-3/4 KW	G.E.			Good	1150					
No. 2													
No. 3													

DISTRIBUTION OF KW. Note:- This is a reserve set. See distribution listed under Power Plant in Bloomfield No.2.

*Salvage of armament and accessory equipment of Battery Bloomfield directed by ASF 11/27/43 — 400.93 (New York) CM 74655

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Electric Plants)

* COAST DEFENSES OF SANDY HOOK
FORT HANCOCK, N.J.
RESERVE POWER FOR Batteries Bloomfield, Richardson, Halleck, Alexander.
(Bloomfield No.2 Power Plant.)

Form 5. Corrected to Sept.28,1921

	Serial No.	Type	Size	Mfgr.	Date of transfer	Cost	Condition	RPM	Belt or Direct Drive	Radiator for Engine No.	Fuel	Switchboard Material	Switchboard No. of Panels
Boi. No. 1													
No. 2													
No. 3													
Engine No. 1	14453	G.M.12	43/54 H.P.	G.E. Co.	Apl.1,1921		New	560	Direct				
No. 2	14495	G.M.12	43/54 H.P.	"	Apl.1,1921		"	560	"				
No. 3													
Generator No.1	679185	M.P.C.	Amps.217 Volts 115	"	"	$4,700. Per Set	"	560	"				
No.2	679227	"	"	"	"		"	560	"				
No. 3													
Radiator No. 1	14892	FF 54								1			
No. 2	14887	"								2			
No. 3													
Motor-Generator													
No. 1													
No. 2													
No. 3													
Swi hboard	474	Feeder										Composition	3
~~Storage Battery~~	778	Gen.											
~~Transformer~~	746	Gen.											
No. 1													
No. 2													
No. 3													
Auxiliaries													
No. 1													
No. 2													
No. 3													

Note: The Central Power Plant, Bloomfield Power Plants (Emplacement No.1) and Bloomfield No.2, and Alexander 25 K.W. sets are all cross connected through the Distributing panel in Bloomfield No 2.

DISTRIBUTION OF KW.

Total for Power Plants Bloomfield Nos. 1 and 2--{Lights 24 K.W. / Power 56 K.W. (Motors)} For above Batteries.

Note: This power plant is located in Bloomfield No.2

*Salvage of armament & accessory equipment of Btry. Bloomfield directed by ASF 11/27/43 - 400.23(N.Y.) CM 74653