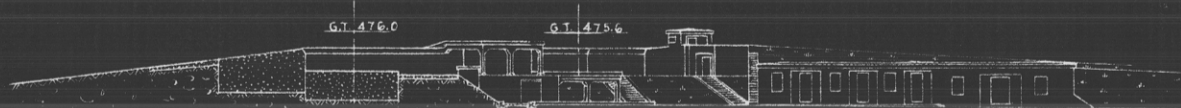


REPORT OF COMPLETED WORKS ~ SEACOAST FORTIFICATIONS
 (BATTERY PLAN)

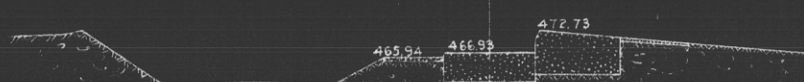
COAST DEFENSES OF SAN FRANCISCO, CAL.
 FORT BAKER
 BATTERY SPENCER
 NO. OF GUNS 2 : CALIBER 12^{IN.} : 2 NONDISAPPEARING
 CARRIAGES

CORRECTED TO AUG. 1923.

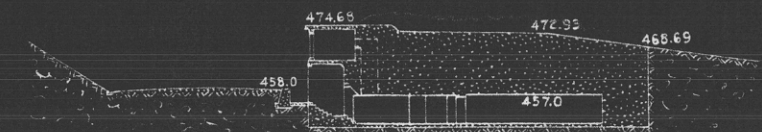
FORM ~ 7



REAR ELEVATION ~ C-1-2-C.



SECTION A-1-2-A.



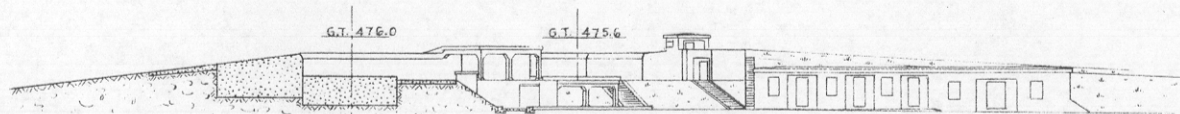
SECTION B-1-2-B.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
 (BATTERY PLAN)

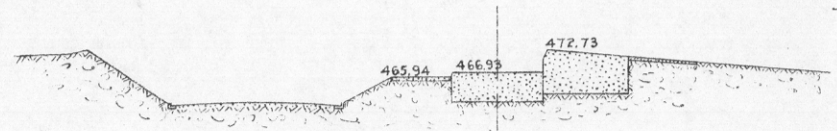
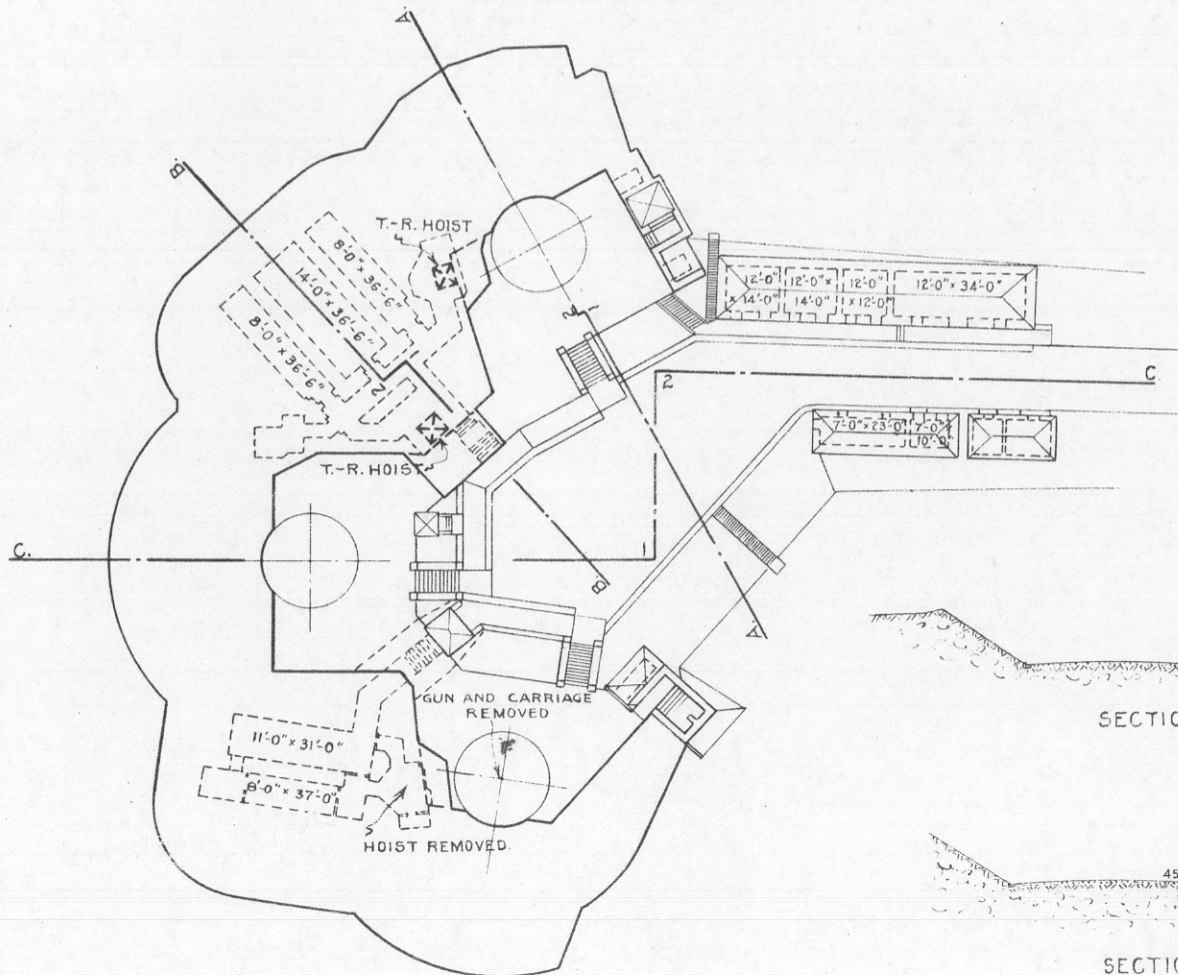
COAST DEFENSES OF SAN FRANCISCO, CAL.
 FORT BAKER
 BATTERY SPENCER
 NO. OF GUNS 2 : CALIBER 12^{IN.} : 2 NONDISAPPEARING
 CARRIAGES

CORRECTED TO AUG. 1923.

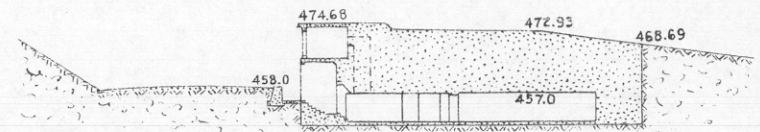
FORM-7



REAR ELEVATION - C-1-2-C.



SECTION - A-1-2-A.



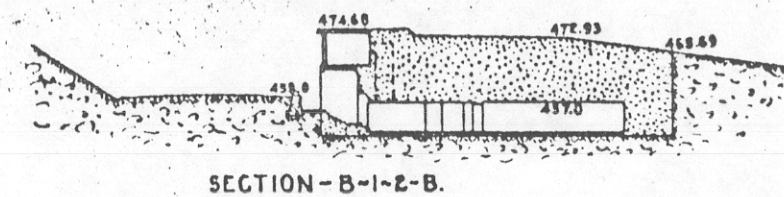
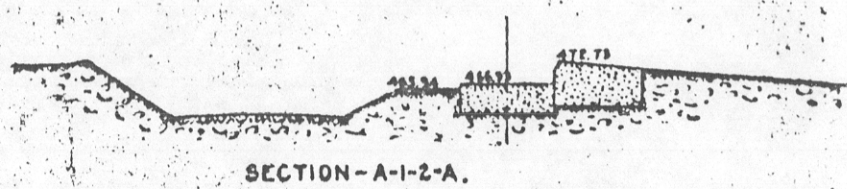
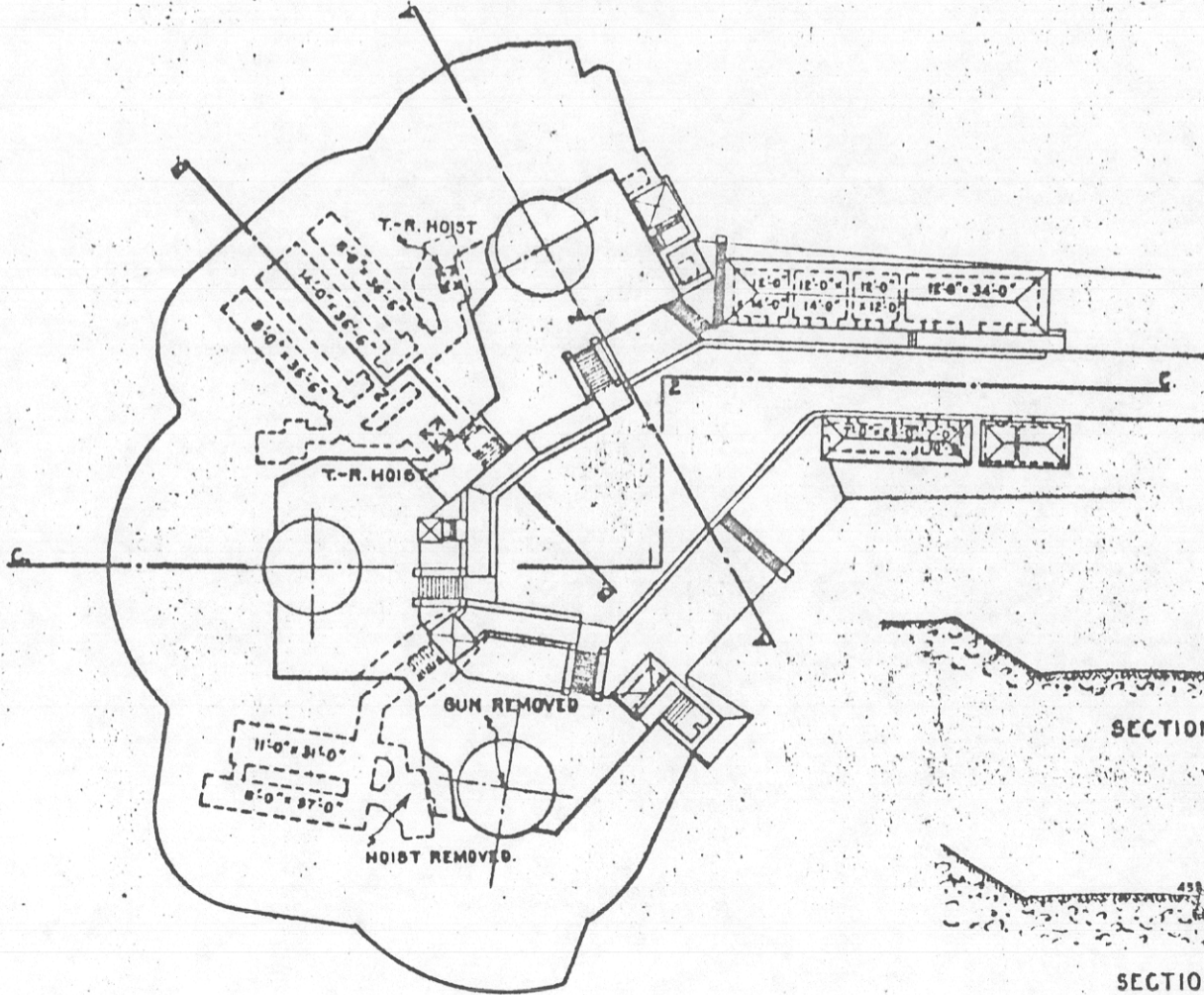
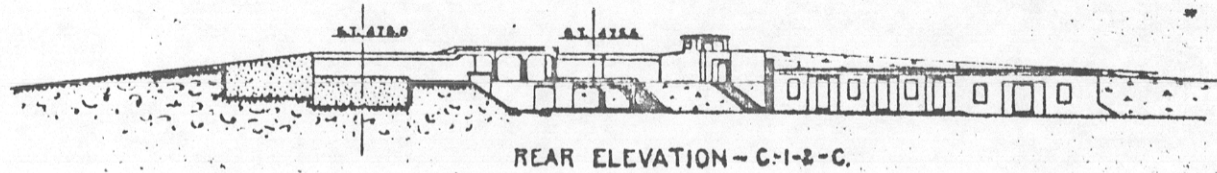
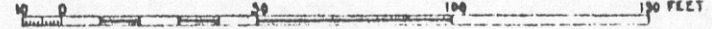
SECTION - B-1-2-B.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(BATTERY PLAN)

COAST DEFENSES OF SAN FRANCISCO, CAL.
FORT BAKER
BATTERY SPENCER
NO. OF GUNS 2 : CALIBER 12" : 3 NONDISAPPEARING
CARRIAGES

CORRECTED TO DEC. 1919.

FORM-7



COAST DEFENSES OF San Francisco, California

FORT Baker BATTERY Spencer NO. OF GUNS: 3 CALIBER: 12"

	EMPLACEMENT NUMBER 1.	EMPLACEMENT NUMBER 2.	EMPLACEMENT NUMBER 3.	EMPLACEMENT NUMBER 4.				
1-a. Azimuth.	319°07'	112°41½'	35°20'					
b. Distance.	78.9	102'	77'					
2-a. Model of Gun.	1888	1888	1888					
b. " " Carriage.	1892	1892	1892					
c. Type of " "	Non Dis.	Non Dis.	Non Dis.					
3- Elevations of.								
a. Gun trunnions (in battery)	475.6	476.0	475.9					
b. Interior crest.	471.8	472.2	472.1					
c. Loading platform.	461.0	461.4	461.4					
4- Angle of depression.	5°05'	3°15'	7°00'					
5- Limiting azimuths of field of fire as determined by:								
a. Construction of emplacement.	305°42'	114°15'	245°21'	89°03'	201°18'	346°25'		
b. Interference by adjacent emplacements.		No	interference					
c. Interference of other obstacles external to emplacement.	72°51'	110°33'	74°27'	85°18'				
d. Position of Ordnance stops.	326°46'	110°33'	253°00'	85°18'	200°54'	348°15'		

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 Battery Point, latitude: -37°49', longitude: 125°7.8 meters. No. 1, are given with reference to Spencer longitude -122°28'-1276.2 "
3. Above plane of M.L.L.W.
- 5-c. Nature of obstacles: Topography of bluffs west of Battery Kirby.
- 2-c. Use one of following abbreviations or designations: Dis.; Non Dis.; Alt. gun-lift; Turret; Casemate; Ped.; B.P.

obsolete

N

REPORT OF COMPLETED WORKS -- SEACOAST FORTIFICATIONS.
(Fire control or Torpedo Structures)

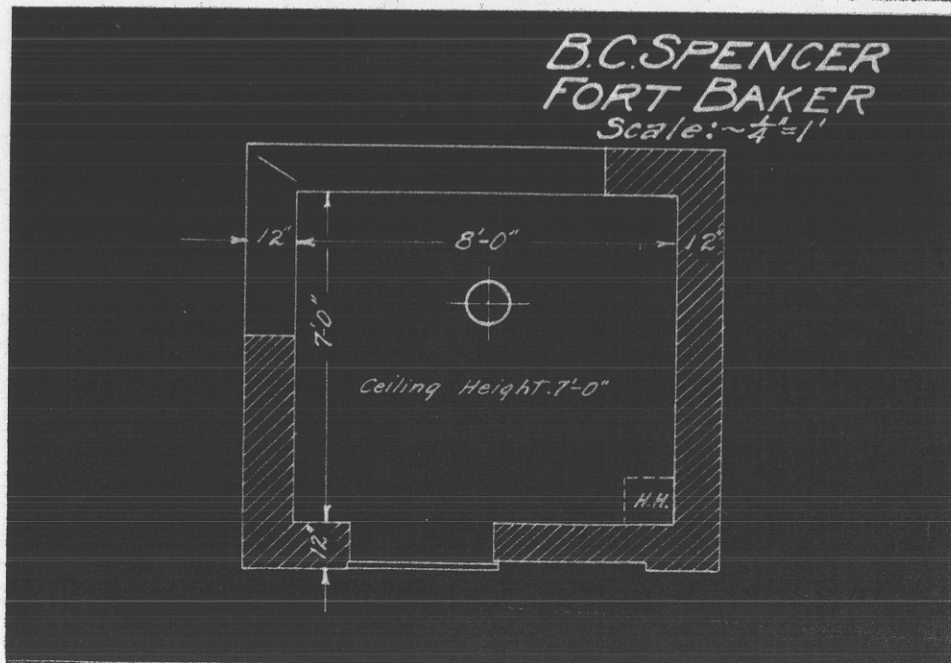
COAST DEFENSES OF SAN FRANCISCO.
FORT.. BAKER.....
STRUCTURE. B.C. (SPENCER).....

1920

Form 2.

Corrected to MARCH 1, 1920

Location-----	On traverse at right Emp. #1, Battery Spencer.	Type of data transmission-----	Telephone.
Date of transfer-----	Aug. 5, 1910.	Date of transfer-----	:
Cost to that date-----	MODIFICATIONS \$1,419.14	Cost of data transmission equipment-----	Installed by Sig. Corps
Type of construction-----	:	For tide stations give descrip- tion of tide gauge-----	:
(a) Roof-----	Concrete.	For datum points give Forts from which visible-----	:
(b) Remainder of bldg.-----	Concrete.	For dormitories give stations served-----	:
How concealed-----	Parapet wall.	For cable; hut give S.C. Type-----	:
How protected-----	Parapet wall.	:	:
Heights above concealment-----	4.03	:	:
Heights above protection-----	4.03	:	:
Conspicuous at 1500 yards-----	from sea.	:	:
Source of electric current-----	Battery Spencer power plant.	:	:
Kilowatts required-----	.12	:	:
Type of lighting fixtures-----	W.T. fixtures, iron conduit	:	:
How heated-----	Not heated.	:	:
Connected to water mains-----	No.	:	:
Connected to sewer-----	No.	:	:
Type of latrines-----	Use battery latrine.	:	:
Permanent or temporary installation-----	Permanent.	:	:
Present condition-----	Good.	:	:
Reference of site-----	473.9	:	:
Reference of instrument axis-----	475.1	:	:
Type of observing inst-----	W. & S. Az. inst. M.1910.	:	:
Type of plotting board-----	:	:	:
Type and capacity of crane-----	:	:	:
Max. dimensions of reel handled-----	:	:	:



obsolete

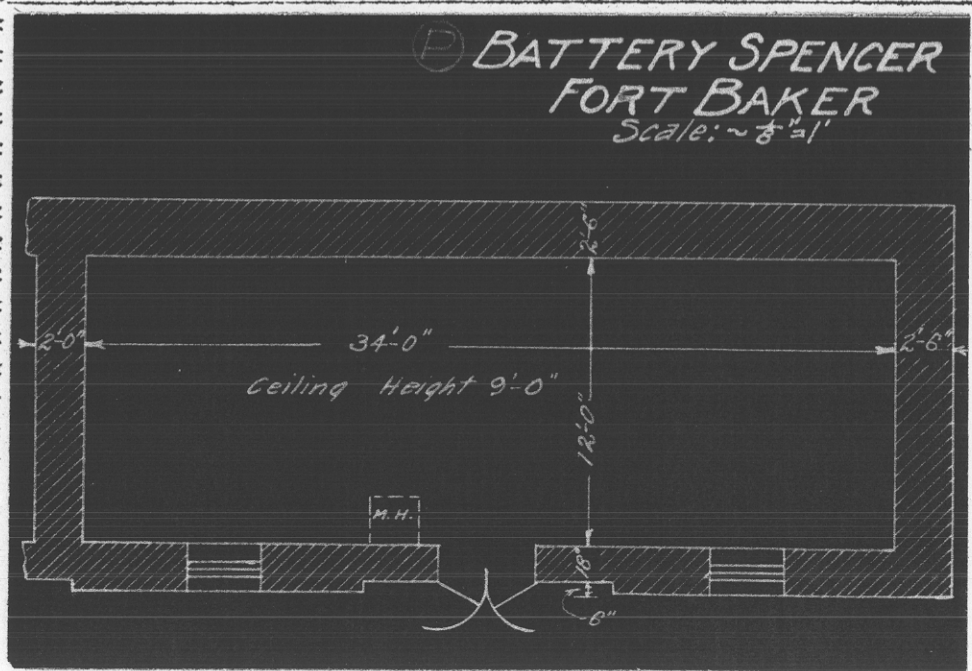
REPORT OF COMPLETED WORKS -- SEACOAST FORTIFICATIONS.
(Fire control or Torpedo Structures)

COAST DEFENSES OF SAN FRANCISCO.
FORT. BAKER.....
STRUCTURE. PLOTTING ROOM, Battery SPENCER.....

Form 2.

Corrected to MARCH 1, 1920

Location -----	In earth parapet at right Emp. #1, Battery Spencer.	Type of data transmission -----	Telephone.
Date of transfer -----	Aug. 5, 1910.	Date of transfer -----	
Cost to that date -----	MODIFICATIONS \$261.54.	Cost of data transmission -----	
Type of construction -----		equipment -----	Installed by Sig. Corps.
(a) Roof -----	Concrete.	For tide stations give descrip- tion of tide gauge -----	
(b) Remainder of bldg. -----	Concrete.	For datum points give Forts from which visible -----	
How concealed -----	Earth parapet.	For dormitories give stations served -----	
How protected -----	Earth parapet.	For cable hut give S.C. Type -----	
Heights above concealment -----	Not above concealment.		
Heights above protection -----	Not above protection.		
Conspicuous at _____ yards -----	Not visible from sea.		
Source of electric current -----	Baty Spencer power plant.		
Kilowatts required -----	.84 k.w.		
Type of lighting fixtures -----	w.t. fixtures and iron conduit.		
How heated -----	Not heated.		
Connected to water mains -----	No.		
Connected to sewer -----	No.		
Type of latrine -----	Use battery latrine.		
Permanent or temporary installation -----	Permanent.		
Present condition -----	Good.		
Reference of site -----	473.		
Reference of instrument axis floor level -----	457.25		
Type of observing inst. -----	W. & H. M. 1904.		
Type of plotting board -----			
Type and capacity of crane -----			
Max. dimensions of reel handled -----			



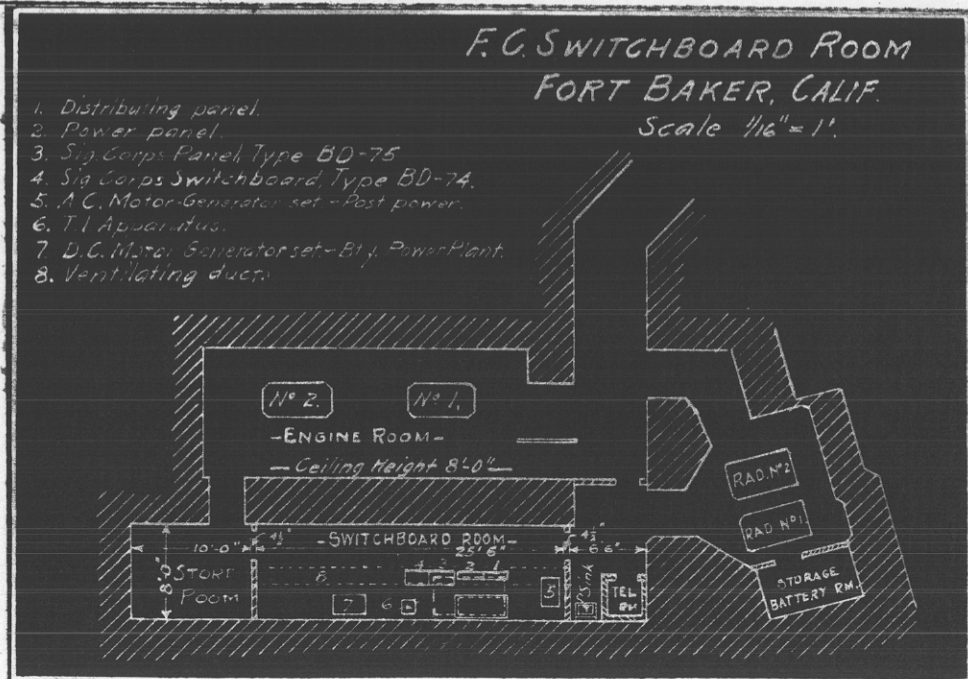
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Fire control or Torpedo Structures)

HARBOR DEFENSES OF San Francisco
FORT Baker
STRUCTURE F.C. Switchboard Room.

Form 2. Corrected to Nov. 16, 1936.

Probably Obsolete

STRUCTURE:	:	INSTRUMENTS AND EQUIPMENT:	:
Location	: In abandoned magazine, : Empl. #3, Battery Spencer.	Type of observing inst.	:
Date of completion	: July, 1921 (a)	Type of plotting board	:
Cost to that date	: \$2,311.50		:
Type of construction	:	DATA TRANSMISSION:	:
(a) Roof	: (a) Concrete	Type of	:
(b) Remainder of bldg.	: (b) Concrete		:
How concealed	: (By position in traverse of battery; : (Overhead protection, concrete 14' to : (16' thick; Horizontal protection, 12' : (to 25' of concrete plus 100' or more : (of earth.	Date of transfer	:
Height above concealment	: Not above concealment.	Cost of data transmission equip.	:
Height above protection	: Not above protection.	For tide stations give descrip-	:
Conspicuous at yards	: Not visible.	tion of tide gauge	:
ELECTRIC CURRENT:	:	For datum points give Forts	:
Source of	: Bty. power plant (DC) : Post Power (AC)	from which visible	:
Kilowatts required	: Lights, .5 : Power, 1.0 (total 1.5)	For dormitories give sta. served:	:
Type of lighting	: Engr. Dept. std. fixtures	For cable hut give S.C. type	:
HEAT:	:		:
How heated	: Not heated.	(a) In room of battery previously transferred to Artillery.	:
WATER & SEWER:	:	Equipment, previously transferred, moved from abandoned un-	:
Connected to water mains	: Yes.	protected F.C. Switchboard Room.	:
Connected to sewer	: Yes. For floor drainage.		:
Type of latrine	: Use Bty. Spencer latrine.		:
Permanent or temporary inst.	: Permanent.		:
Present condition	: Good.		:
REFERENCE:	:		:
Reference of site	: 473.0 MLLW (top of trav- : (erse.		:
Reference of instrument axis	: ----		:
Floor of room	: Elev. 449.0 MLLW		:



Obsolete

REPORT OF COMPLETED WORKS -- SEACOAST FORTIFICATIONS.
(Fire control or Torpedo Structures)

COAST DEFENSES OF SAN FRANCISCO.
FORT. BAKER.
STRUCTURE. SWITCHBOARD ROOM, TYPE A.

Form 2. Corrected to MARCH 1, 1920

Location ----- At entrance to Battery Spencer.

Date of transfer ----- Aug. 5, 1910.

Cost to that date ----- \$5,605.62.

Type of construction -----

(a) Roof ----- Tar and gravel.

(b) Remainder of bldg. ----- Concrete.

How concealed ----- Earth parapet.

How protected ----- Earth parapet.

Heights above concealment ----- Not above concealment.

Heights above protection ----- Not above protection.

Conspicuous at ----- yards ----- Not conspicuous from sea.

Source of electric current ----- Baty Spencer power plant

Kilowatts required ----- 1.0 k.w.

Type of lighting fixtures ----- Porc. sockets, k.& b, and iron conduit wiring.

How heated ----- Stove.

Connected to water mains ----- No.

Connected to sewer ----- No.

Type of latrine ----- No latrine.

Permanent or temporary -----

installation ----- Permanent.

Present condition ----- Good.

Reference of site ----- 440. M.L.L.W.

Reference of ~~instrument~~ floor -----

~~xxxx~~ level ----- 431.

Type of observing inst. -----

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 -----

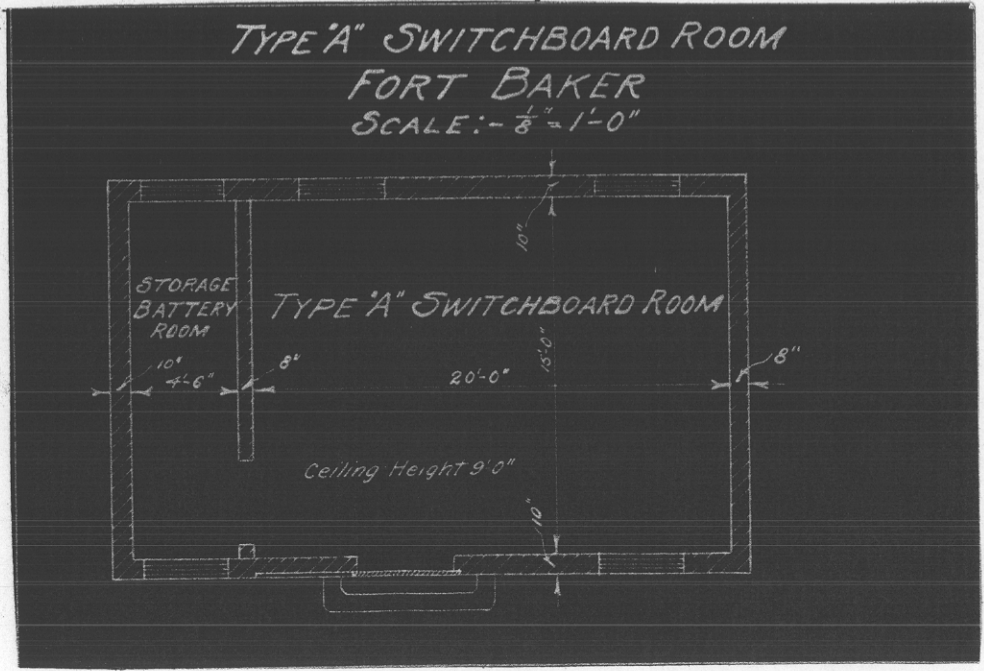
equipment -----

For tide stations give description of tide gauge -----

For datum points give Forts from which visible -----

For dormitories give stations served -----

For cable hut give S.C. Type -----



REPORT OF COMPLETED WORKS * SEACOAST FORTIFICATIONS
(Electric Plants)

COAST DEFENSES OF SAN FRANCISCO, CAL.
FORT BAKER
POWER FOR BATTERIES SPENCER & WAGNER, F.C. STATIONS AND
F.C. SWITCHBOARD ROOM.

Form 5.

Corrected to OCT. 1, 1921

	Serial No.	Type	Size	Mfgr.	Date of transfer	Cost	Con- dition	RPM	Belt or Direct Drive	Radiator for Engine No.	Fuel	Switchboard		
												Material	No. of Panels	
Boiler No.1													Gen	Feed
No.2														
No.3														
Engine No.1	26	GM 12	43/54 H.P.	G.E.Co.	8/5/10		Good	560	Direct		gasln.			
No.2	5466	do.	do.	do.	do.		do.	do.	do.		do.			
No.3														
Generator														
No.1	177329	MPC 6	25-k.w.	do.	do.		do.	do.	do.					
No.2	183204	do.	do.	do.	do.		do.	do.	do.					
No.3														
Radiator														
No.1	None			Long- Turney	do.		do.	1050	do.	1				
No.2	do.			do.	do.		do.	do.	do.	2				
No.3														
Motor-generator														
No.1														
No.2														
No.3														
Switchboard	41		60"x 82"	Taunton New Bedford Copper Co.			do.					Marble	2	1
Storage Battery														
Transformer														
No.1														
No.2														
No.3														
Auxiliaries														
No.1														
No.2														
No.3														

\$6,818.13

DISTRIBUTION OF K.W.-----

	Lights	Power	Total
Battery Spencer, -----	5.76	11.2	16.96
Battery Wagner, -----	1.7	.0	1.7
5 f.c. stations, -----	1.7	.0	1.7
Eng. room and Fan room and Sbd. rm., -----	1.26	.5	1.76
TOTAL -----	10.42	11.7	22.02

REPORT OF COMPLETED WORKS * SEACOAST FORTIFICATIONS
(Electric Plants)

COAST DEFENSES OF SAN FRANCISCO, CAL.
FORT BAKER
POWER FOR BATTERIES SPENCER & WAGNER, F.C. STATIONS AND
F.C. SWITCHBOARD ROOM.

Form 5. Corrected to OCT. 1, 1921

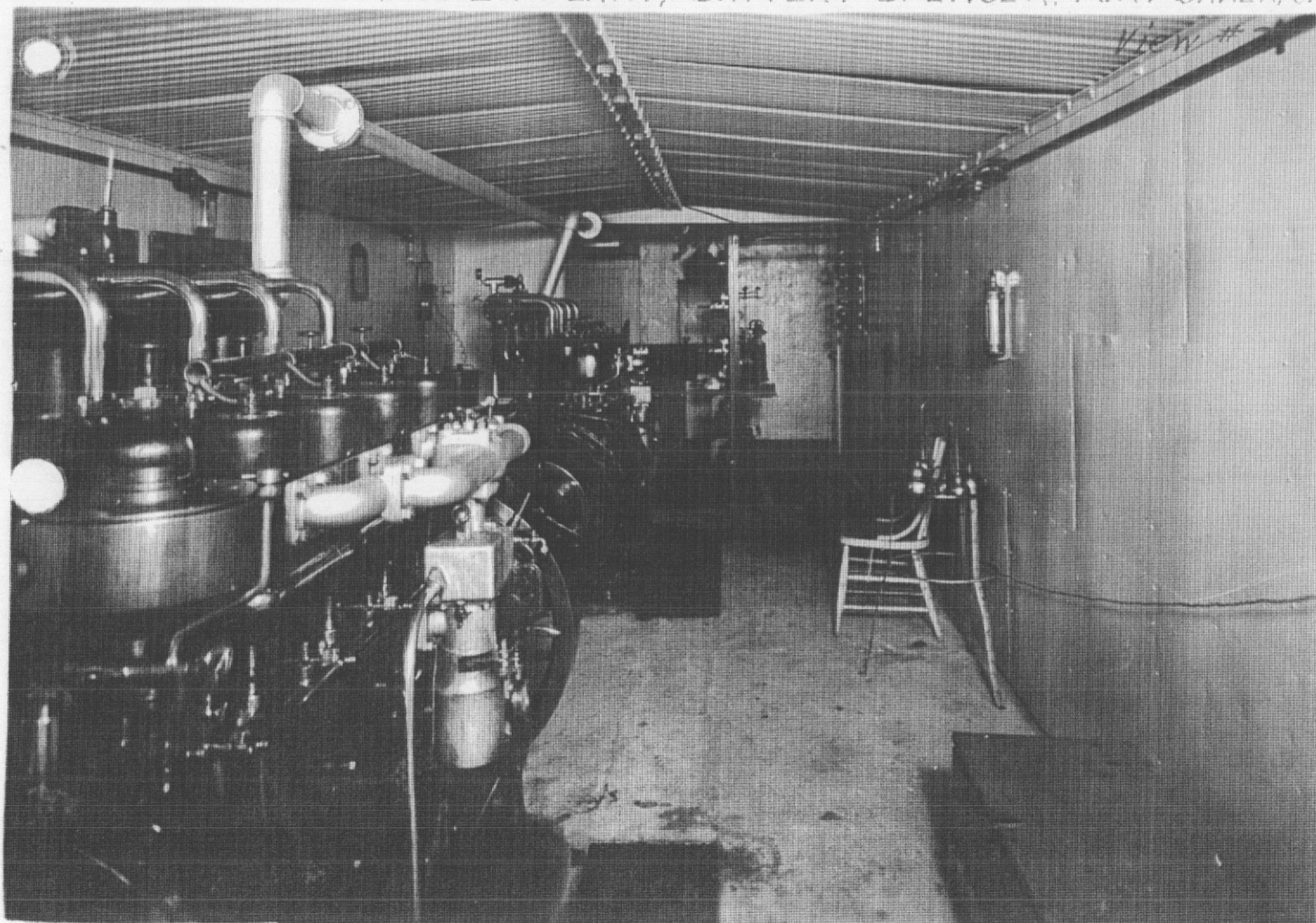
	Serial No.	Type	Size	Mfgr.	Date of transfer	Cost	Con- dition	RPM	Belt or Direct Drive	Radiator: for Engine No.	Fuel	Switchboard							
												Material	No. of Panels	Gen. Feed					
Boiler No.1																			
No.2																			
No.3																			
Eng. rm No.1	26	GM 12	43/54 H.P.	G.E.Co.	8/5/10	----- \$6,818.13 -----	Good	560	Direct		gasln.		sec	175.1	(95 C.A.)				
No.2	5466	do.	do.	do.	do.		do.	do.	do.	do.	do.	do.		Volts	115 DC	Wire	2	Used for OM Power	No
No.3								do.	do.	do.		do.			115 DC	2	No		
Generator																			
No.1	177329	MPC 6	25-k.w.	do.	do.			do.	do.	do.									
No.2	183204	do.	do.	do.	do.			do.	do.	do.									
No.3								do.	do.	do.									
Radiator																			
No.1	None			Long-Turney	do.			do.	1050	do.									
No.2	do.			do.	do.			do.	do.	do.									
No.3							do.	do.	do.										
Motor-generator																			
No.1																			
No.2																			
No.3																			
Switchboard	41		60"x 82"	Taunton New Bedford Copper Co.			do.												
Storage Battery																			
Transformer																			
No.1																			
No.2																			
No.3																			
Auxiliaries																			
No.1																			
No.2																			
No.3																			

DISTRIBUTION OF K.W. -----

	Lights	Power	Total
Battery Spencer, -----	5.76	11.2	16.96
Battery Wagner, -----	1.7	.0	1.7
5 f.c. stations, -----	1.7	.0	1.7
Eng. room and Fan room & Swbd. rm., -----	1.26	.5	1.76
TOTAL, -----	10.42	11.7	22.12

Blue unit long 5-9-33
connected to DE for
service see 6608 (57)

POWER PLANT, BATTERY SPENCER, FORT BAKER, CALIF.

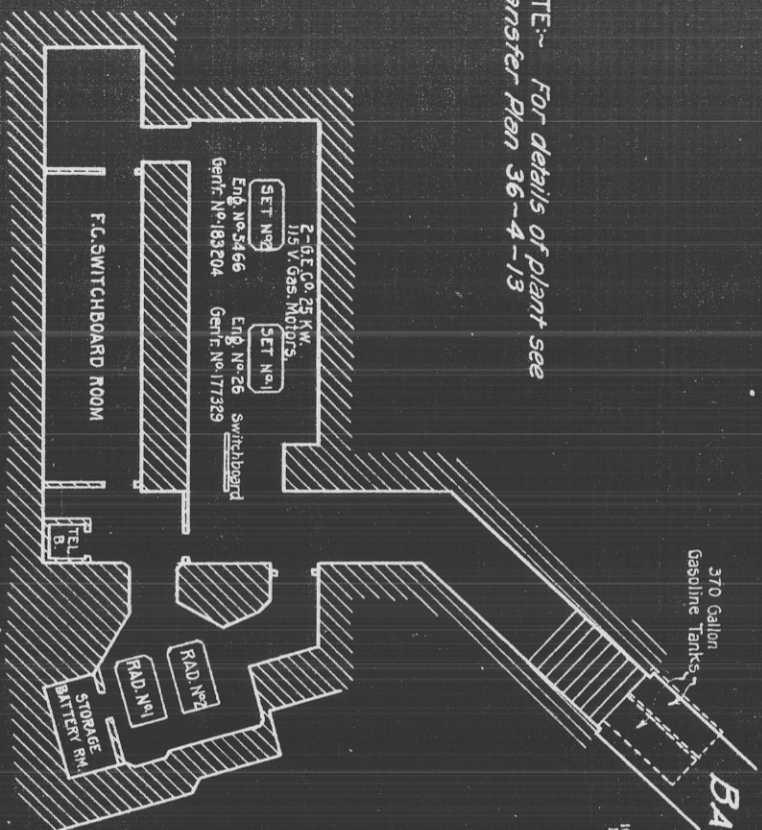


Engine Room February 1921

**F.C. SWITCHBOARD ROOM
AND**

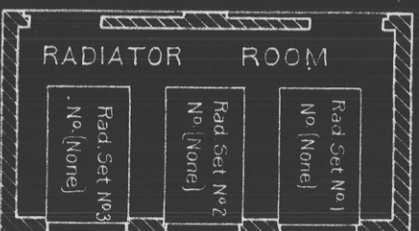
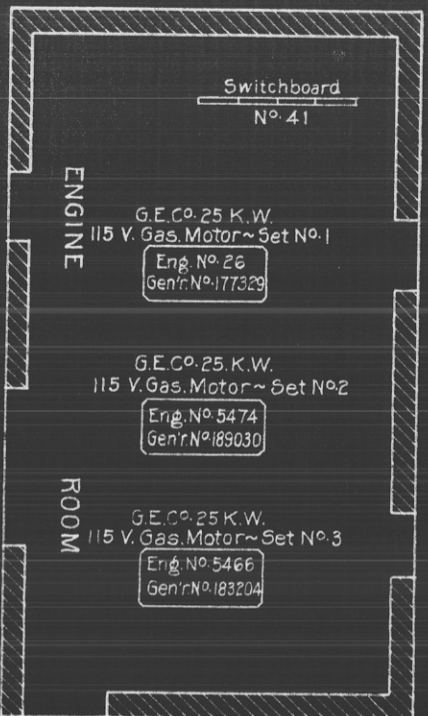
**BATTERY SPENCER POWER PLANT
FORT BAKER, CAL.**

NOTE-- For details of plant see
Transfer Plan 36-4-13

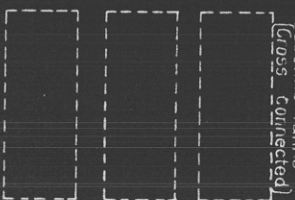


U.S. ENG. OFFICE 1ST DIST. SAN FRANCISCO, CAL. 36-4-14

**EMPT. POWER PLANT
BATTERY SPENCER, FT. BAKER
CALIFORNIA**



370 Gallon
Gasoline Tanks
(Cross Connected)



NOTE-- For details of plant see
Transfer Plan 36-4-6 E.D. 38970/189

**EMPT. POWER PLANT
BATTERY SPENCER, FT. BAKER
CALIFORNIA**



U.S. ENG. OFFICE 2ND DIST. SAN FRANCISCO, CAL. 36-4-9

1st Ind.

Agrs. Ninth Corps Area, Office of the Engineer, Presidio of San Francisco, Cal.,
May 16, 1933. - To: Chief of Engineers, T.S. Army, Washington, D. C.

1. Plan EG-4-9, inclosed with basic letter, is a layout of the original Spencer power plant. During 1920, the plant was relocated in a bomb-proofed room at Emplacement No. 2, Battery Spencer. Two power units only were moved to the new location, the third set (Engine No. 5474, etc.) being reinstalled at Battery Wallace, Fort Barry.

2. A Report of Completed Works - Form 5 revised to Oct. 1, 1921, Plan EG-4-14, and 3 photographs dated February, 1921 - covering the new Spencer plant, (together with revised reports of other power plants) was forwarded to the Chief of Engineers by the District Engineer, First San Francisco District, with letter of September 22, 1921, on the subject "Report of Completed Works, Seacoast Fortifications, Searchlights and Electric Plants". A photostat copy of the revised Form 5, together with duplicates of Plan EG-4-14 and of the three photographs, are herewith.

6 Incls.-

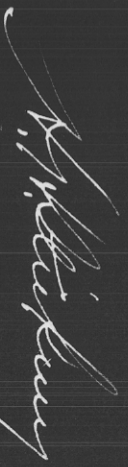
#1 - No change.

Added:

#2 Photo of Form 5.

#3 Plan EG-4-14.

#4, #5 and #6, Photographs.


H. E. STICKNEY,
Major, Corps of Engineers,
Engineer.