

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Gun Battery - Reserve Magazine)

HARBOR DEFENSES OF SAN FRANCISCO  
FORT CRONKHITE, CALIFORNIA  
BATTERY TOWNSLEY - RESERVE MAGAZINE

Form 1.

Corrected to July 24, 1940.

GENERAL		ELECTRIC CURRENT:	
Magazine Commenced	: June 1938	: Sources of	: Kohler 2-kw. light plant
Magazine Completed	: July 1, 1940	:	:
Date of transfer	: July 24, 1940	: Max. kw. required for lights	: 1.26 at 115 Volts
Cost to date of transfer	: \$52,950	: Max. kw. required for motors	: None
Materials of construction	: Reinf. Concrete	:	:
Type of cement	: Conf. to Fed. Spec. SS-C-191 (for cement)	: Present condition of battery	: New
WATER & SEWER:	: None at Reserve Magazine	: Rooms wet or dry	: Dry
Connected to water supply	: No	:	:
Connected to sewer	: No	: How ventilated	: Ventilating doors, 24"-dia. vent shafts with non-metallic tops
Type of latrine	: None	: Type of data transmission	:
:	:	:	:
Union elevation in btry.	: None	: Remarks	: The Reserve Magazine is approximately 2500 feet southeast of Gun No. 1, on the reverse slope of the hill. Not visible from sea
Datum plane	:	:	:

ARMAMENT

Emplacement	Guns or Mortars	Carriages
or mortar No. :: Cal.: length: model :	Serial No.: Manufacturer: mounted::	Type: model: Serial No.: Manufacturer: Motor

No guns at Reserve Magazine

HOISTS

Emplacement	Motor	Remarks
Number : Type : Delivery	Serial No. : Maker : H.P. : Volts : RPM : Type of control	Date of transfer : long points

2 Trolley blocks of  $1\frac{1}{2}$ -ton capacity each - for shell room  
4 Trolley blocks of  $\frac{1}{2}$ -ton capacity each - for powder room

Transfer & Const. Drawgs. - See O.C.E. # 215-20-23

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Central Traverse Magazine)

Corrected to July 24, 1940

Form 1

HARBOR DEFENSES OF SAN FRANCISCO

FORT CRONKHITE, CALIFORNIA

BATTERY TOWNSLEY

No. of guns-2. Caliber-50. Carriage-L.F.

16" Gun

GENERAL		ELECTRIC CURRENT	
Battery Commenced	: January 1938	: Sources of	: Battery Power Plant
Battery Completed	: July 1, 1940	:	:
Date of transfer	: July 24, 1940	: Max. KW. required for lights	: 57.24 at 125 volts
Cost to date of transfer	: \$595,000.	: Max. KW. required for motors	: 274.99 at 125 volts
Materials of construction	: Reinf. Concrete	:	:
Type of cement	: Conf. to Fed. Spec	Pres condition of battery	: New
	: SS-C-191 (for	: Rooms wet or dry	: Dry
	: cement):	:	:
WATER AND SEWER:	:	:	:
Connected to water supply	: yes	: How ventilated	: Ventilating Doors. 18" diameter vent
Connected to sewer	: yes	:	: shafts in Magazines. Transite vent covers.
Type of latrine	: Reinf. Concrete	Type of data transmission	: Telephone (Installed by Signal Corps)
Trunnion elevation in btry:	Gun #1 - 345.64:	Remarks	:
	Gun #2 - 345.66:	:	:
Datum plane	: M.L.L.W.	:	:
	:	:	:

ARMAMENT

Emplacement:		Guns or Mortars						Carriages			
Number	: Cal.:	length:	model:	Serial No.:	Manufacturer:	mounted:	Type	model:	Serial No.:	Manufacturer:	Motor
Gun #1	: 50	: 68 ft.:	1919:	87	: Navy	: yes	: Barbette	: 1919	: 15	: Navy	: Each Gun
2	: 50	: 68 ft.:	1919:	86	: Navy	: yes	: Barbette	: 1919	: 16	: Navy	: Elev. Motor-50HP
	:	:	:	:	:	:	:	:	:	:	: Rammer " 30HP
	:	:	:	:	:	:	:	:	:	:	: Traverse " 7 1/2 HP
	:	:	:	:	:	:	:	:	:	:	: Comp Motor 30HP

HOISTS

Emplacement:		Motor										
Number	: Type	: Delivery:	Serial No.:	Maker:	H.P.:	Volts:	RPM:	Type of control:	Date of transfer:	for long points	Remodeled	
			One Level Battery - No Ammunition Hoists required									
			Twenty-five 1 1/2 ton, hand-powered hoists for conveying shells to guns									

Note: The Central Traverse Magazine includes two gun emplacements in casemates, two magazines, several storerooms and a power room. Cost to date of transfer, if Reserve magazine, Plotting Switchboard, Radio room, B.C. Station, Boundary fence and utilities are included, is \$1,007,500.

Transfer & Const. Drawgs. - See O.C.E. # 215-20-23

Superseded - See Form 1 corrected to July 1942

Note: The Central Traverse Magazine includes two gun emplacements in casemates, two magazines, several storerooms and a power room. Cost to date of transfer, if Reserve magazine, Plotting Switchboard, Radio Room, B. C. Station, Foundary fence and utilities are included, is \$1,007,500.

Additional Latrine Facilities & Prison Type Bunks.

Additional Latrine facilities installed in main entrance to Central Traverse Magazine, per drawing File 60-4-15 sheet 1, in 1943, at cost of \$2470.44. Prison Type steel bunks installed in corridors, storeroom & shop to accomodate 150 men, in accordance with drawing File 60-10-1 Sheet #1 at cost of \$2100.

TOTAL COST OF WORK IN 1943: \$ 4570.44

OFFICE DIVISION ENGINEER  
PACIFIC DIVISION  
NOV 16 43-11 30 AM  
SAN FRANCISCO CALIF

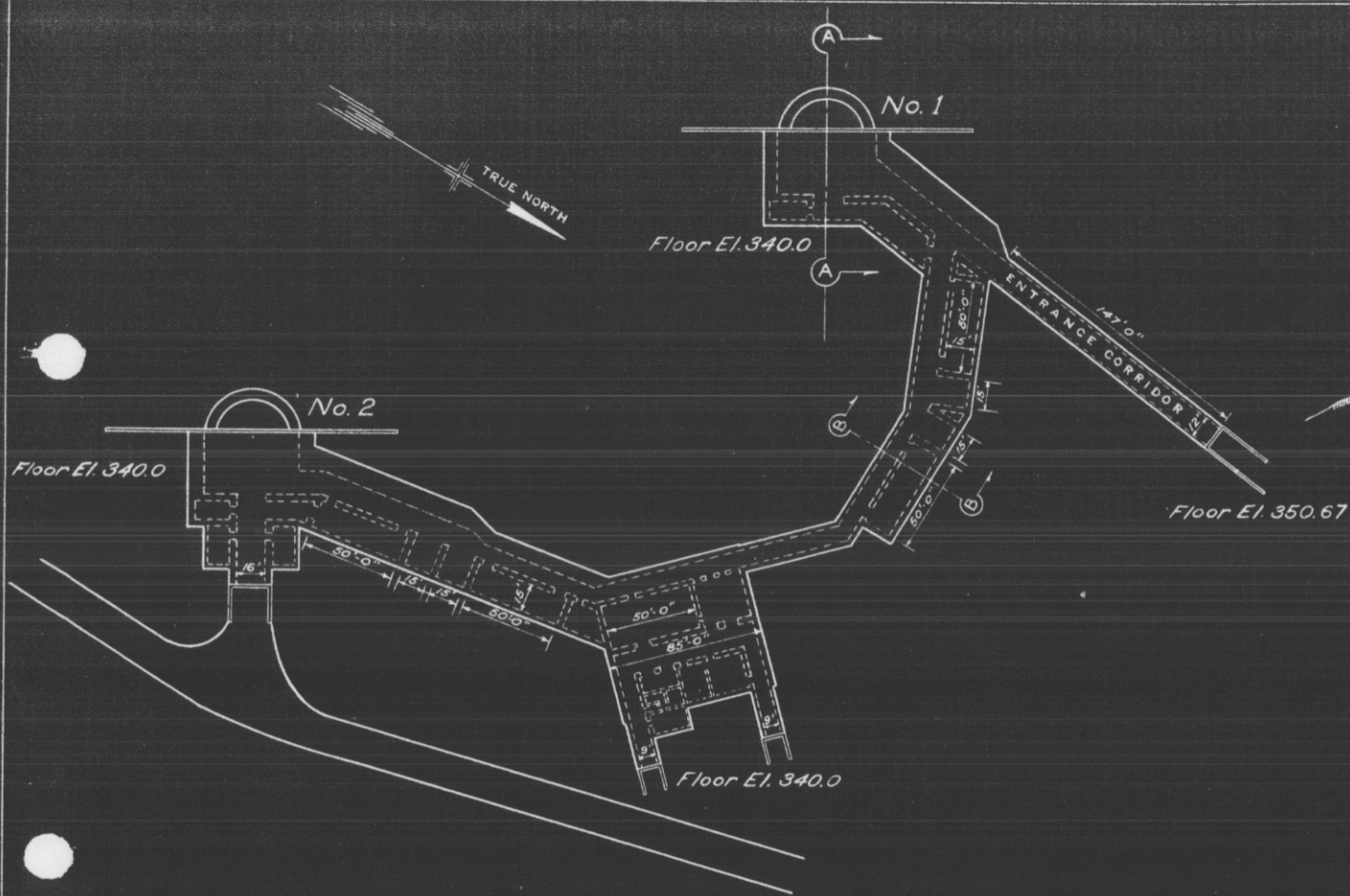
21017

REPORT OF COMPLETED WORKS—SEACOAST FORTIFICATIONS  
 BATTERY PLAN

FORM 7

CORRECTED TO JULY 24, 1940

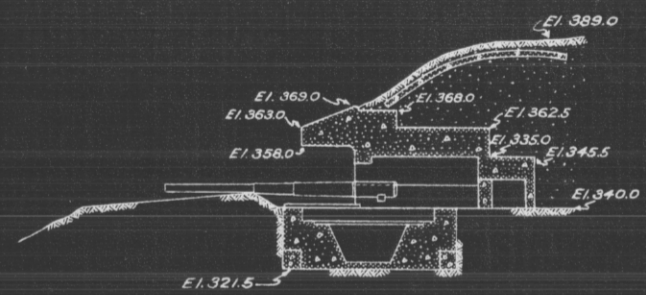
HARBOR DEFENSES OF SAN FRANCISCO  
 FORT CRONKHITE CALIFORNIA  
 BATTERY—TOWNSLEY  
 NO. OF GUNS—2 CALIBER—50 CARRIAGE—L-F  
 SCALE AS SHOWN



**PLAN OF BATTERY**

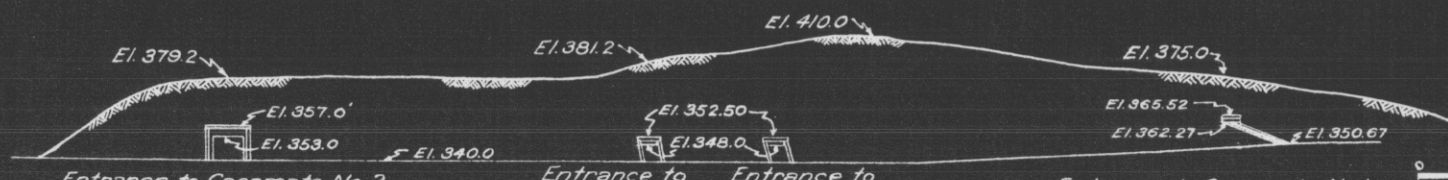
Scale: 1"=100'  
 50 0 50 150

16" Gun

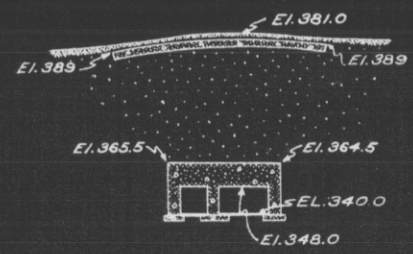


**SECTION A-A**

Scale: 1/4"=8'0"  
 0 15 30 45 60 120



**REAR ELEVATION**

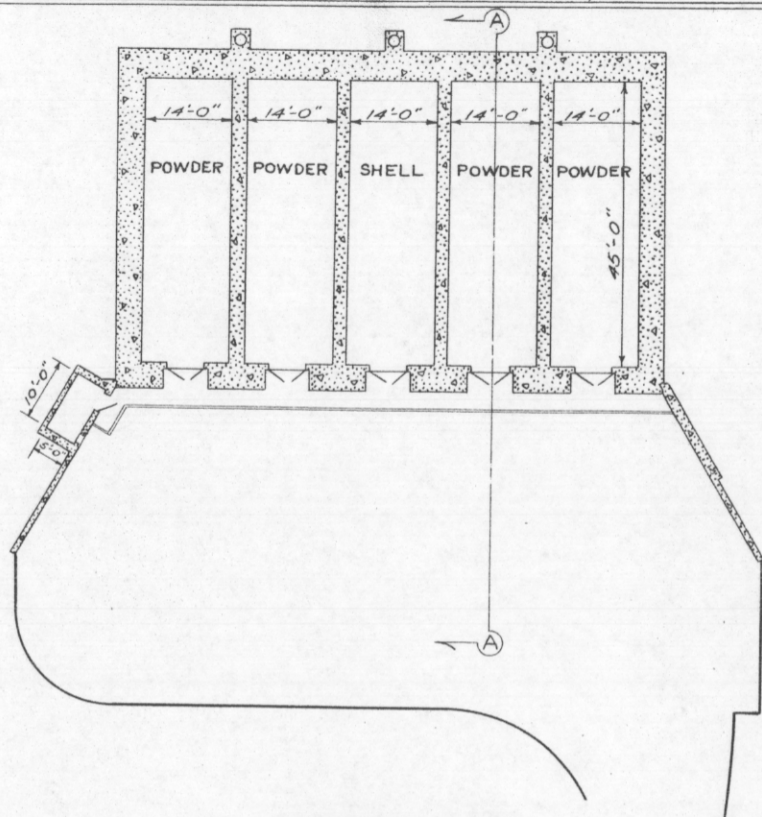


**SECTION B-B**

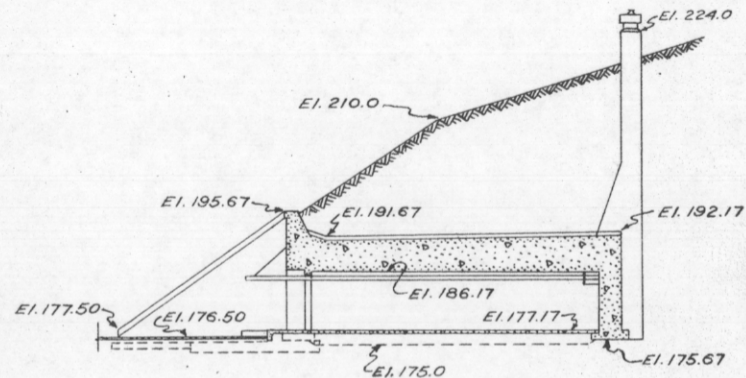
Scale: 1/4"=8'0"  
 0 15 30 45 60 120

FORM 7

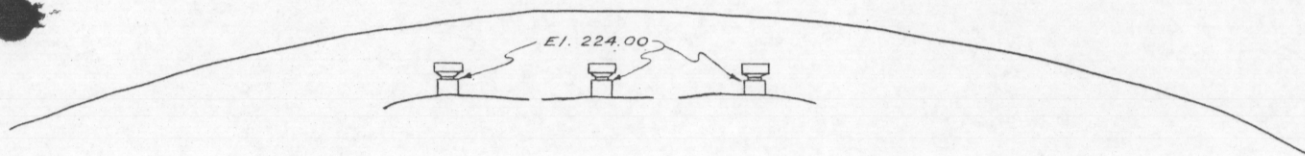
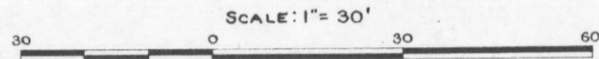
CORRECTED TO JULY 24, 1940



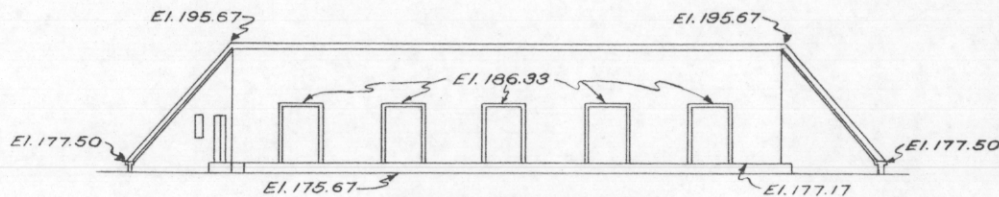
GENERAL PLAN



SECTION A-A



REAR ELEVATION



REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Fire-control Structure)

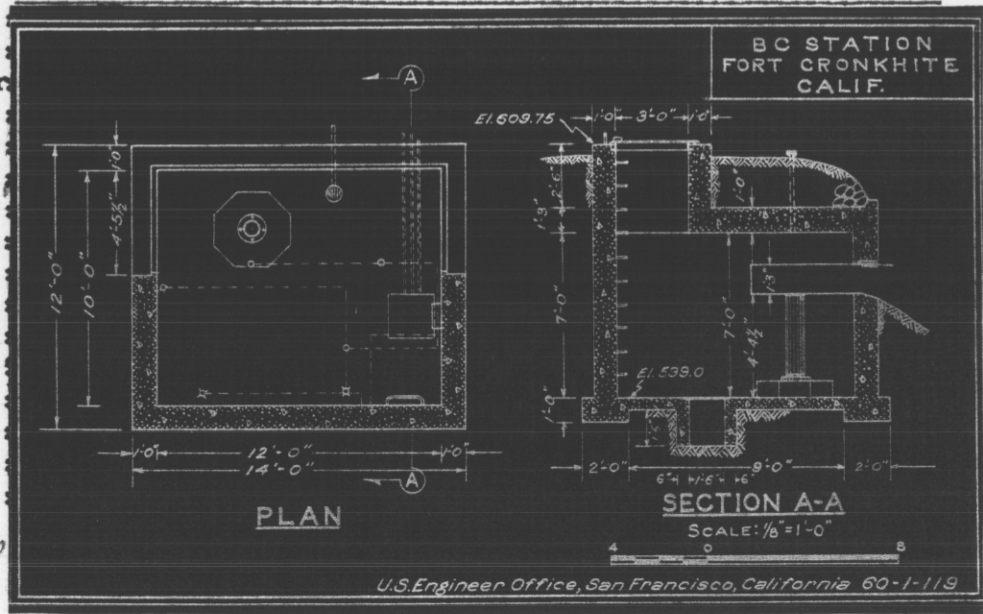
Form 2

Corrected to July 24, 1940.

HARBOR DEFENSES OF SAN FRANCISCO  
FORT CRONKHITE, CALIFORNIA  
B. C. TOWNSLEY

STRUCTURE:	:	: INSTRUMENTS AND EQUIPMENT	:
Location	: Fort Cronkhite. Approx.	: Type of observing inst.	: Pier mount for Azimuth
Date of transfer	: 1300 ft. N.W. of Gun #1	: Type of plotting board	: Instrument. Portable pedestal for B.C. Telescope.
Cost to that date	: July 24, 1940	:	: None
Type of construction	: \$2,435.	: DATA TRANSMISSION:	:
(a) Roof	: Reinforced Concrete	: Type of	: Telephone (Installed by
(b) Remainder of building	: Reinforced Concrete	: Date of transfer	: Signal Corps)
How concealed	: Earth cover & vegetation	: Cost of data transmission equip.	:
How protected	: Two ft. of backfill over	: For tide stations give description of tide gauge	:
Height above concealment	: the roof	: For datum points give Forts from which visible	:
Height above protection	: Not above concealment	: For dormitories give sta. served.	:
Conspicuous at 1,000 yards	: Not above protection	: For cable hut give S.C. type	:
ELECTRIC CURRENT:	:	:	:
Source of	: Btry. Townsley Power Plant *	:	:
Kilowatts required	: 2.30	:	:
Type of lighting fixtures	: U.S.E.D. SF 1	:	:
HEAT:	:	:	:
How heated	: Plug receptacle provided for	:	:
WATER & SEWER:	: attachment of elec. heater.	:	:
Connected to water mains	: No	:	:
Connected to sewer	: No	:	:
Type of latrine	: None	:	:
Permanent or temporary inst'n.	: None	:	:
resident condition	: None	:	:
REFERENCE:	:	:	:
Reference of site	: El 605	:	:
Reference of instrument axis	: El 604.08	:	:
Type and capacity of crane	: None	:	:
Max. dim. of reel handled	: None	:	:

\* AC commercial power to be supplied. 675.1 (San Fran.) XM 0050



Transfer & Const. Drawgs. - O.C.E. # 215-20-23.

Superseded;  
See Form 2 corrected to Dec. 1942

San Francisco (M 53927)  
53927

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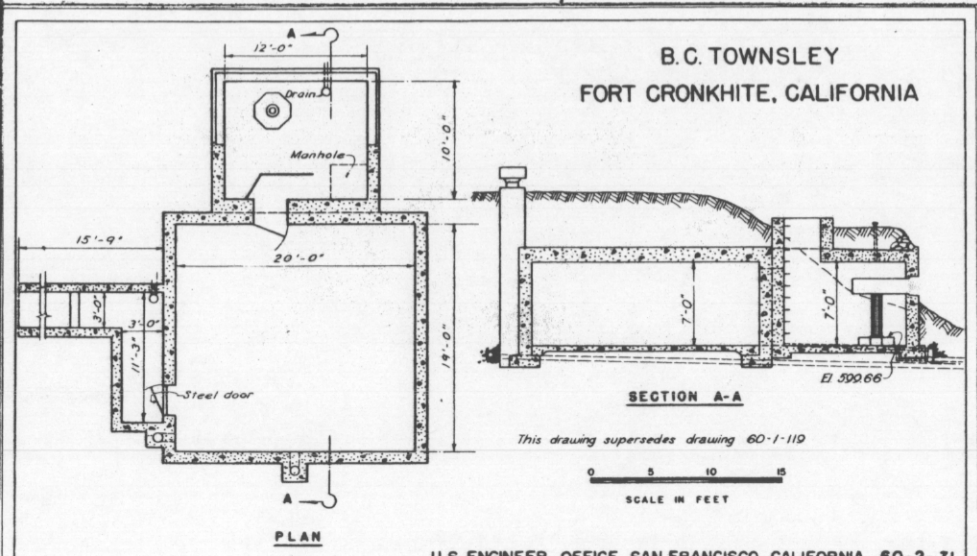
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Fire Control ~~or Concrete Structures~~)

HARBOR DEFENSES OF San Francisco.....  
FORT... Cronkhite.....  
STRUCTURE... BC, Townsley.....

Form 2

Corrected to December 1942

<p>STRUCTURE: Location</p> <p>Date of transfer</p> <p>Cost to that date</p> <p>Cost of Alterations</p> <p>Type of construction</p> <p>(a) Roof</p> <p>(b) Remainder of bldg. how concealed</p> <p>How protected</p> <p>Height above concealment</p> <p>Height above protection</p> <p>Conspicuous at 1000 yards</p> <p>ELECTRIC CURRENT: Source of</p> <p>Kilwatts required</p> <p>Type of lighting fixtures</p> <p>HEAT: How heated</p> <p>WATER &amp; SEWER: Connected to water mains</p> <p>Connected to sewer</p> <p>Type of latrine</p> <p>Permanent or temp. inst'n.</p> <p>Present condition</p> <p>REFERENCE: Reference of site</p> <p>Reference of inst. axis</p> <p>Elev. of inst. pedestal</p> <p>Type and capacity of crane</p> <p>Max. dim. of reel handled</p>	<p>Fort Cronkhite, approx. 1300' NW of Gun #1</p> <p>July 24, 1940</p> <p>\$2435.00</p> <p>\$3659.34</p> <p>Reinf. concrete</p> <p>Reinf. concrete</p> <p>Earth cover and vegetation</p> <p>Two to five feet of backfill</p> <p>Not above concealment</p> <p>Not above protection</p> <p>Not conspicuous from sea</p> <p>Batt. Townsley Power Plant</p> <p>USED SF &amp; CSF</p> <p>Electric heater by others</p> <p>No</p> <p>No</p> <p>None</p> <p>None</p> <p>Good</p> <p>605.0</p> <p>604.08</p>	<p>INSTRUMENTS AND EQUIPMENT: Type of observing inst.</p> <p>Type of plotting board None</p> <p>DATA TRANSMISSION: Type of</p> <p>Date of transfer</p> <p>Cost of data transmission equip.</p> <p>For tide stations give description of tide gauge</p> <p>For datum points give Forts from which visible</p> <p>For dormitories give sta. served</p> <p>For cable hut give S.C. type</p>	<p>(Pier mount for Azimuth instrument. Portable pedestal for BC telescope)</p> <p>Installation by Signal Corps.</p>
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Incl 2a' FS-955 Rev. 6-20

CONFIDENTIAL

600.714 (S2) 105090

105090

SECRET

SPERM-1

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(FIRE CONTROL ~~XXXXXXXXXXXXXXXXXX~~)

HARBOR DEFENSES OF SAN FRANCISCO.....  
FORT .. CRONKHITE, CALIFORNIA.....  
STRUCTURE. B.C. TOWNSLEY.....

PART II Corrected to June 1944

STRUCTURE: x. 122° 32' 38.825".....  
Location (by coordinates) y. 37° 50' 23.996".....  
Location (by site description) Ft. Cronkhite, approx.....  
Date of transfer 24 July 1940- / 1500' NW Gun #1.....  
Cost to that date \$2,435.00 - Cost Alt. \$3,699.34\*\*.....  
Type (for observing stat. -- tower, dug-in, cottages, etc.).....  
Type of construction.....  
(a) Roof Reinforced Concrete.....  
(b) Remainder of bldg. Reinforced concrete.....  
How concealed Earth cover and vegetation.....  
How protected Two to five feet of backfill.....  
Height above concealment Not above concealment.....  
Height above protection Not above protection.....  
Conspicuous at 1000 yards Not conspicuous from sea.

INSTRUMENTS & EQUIPMENT: (Pier mount for Azimuth instrument. Portable pedestal for BC telescope).....  
Type of observing inst. BC telescope.....  
Type of plotting board None.....

DATA TRANSMISSION: Installation by Signal Corps.....  
Type.....  
Date of transfer.....

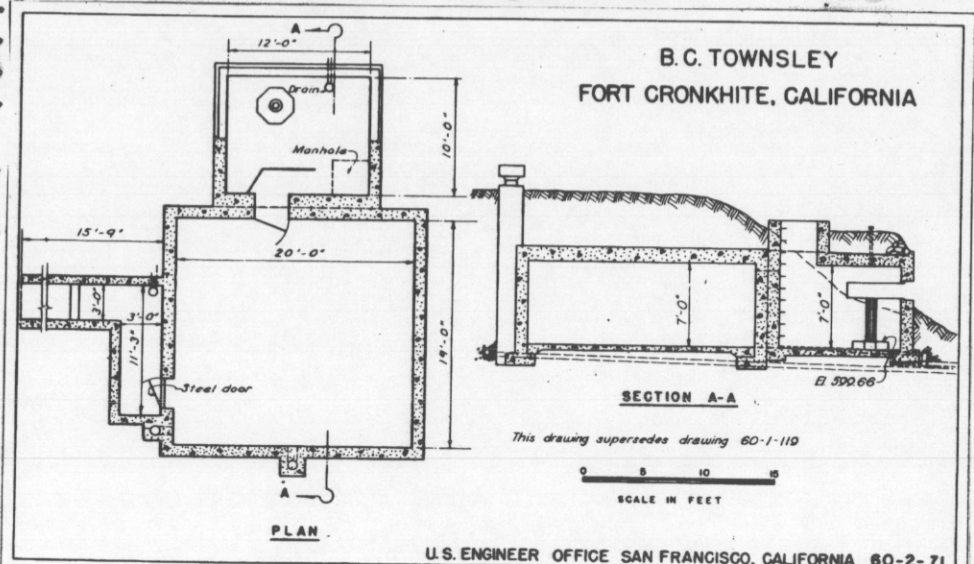
TIDE STATION: Give description of tide gauge.....

Permanent or temporary installation... Permanent.....  
Present condition... Good.....

\*See reverse side for work accomplished in 1944.  
alterations transferred 1 June 1943.  
Coordinates not shown on original Form 2.

UTILITIES:  
Electric Power Battery Townsley Power Plant.....  
Source of.....  
Characteristics: Voltage 120 ~~XXXXX~~ DC..Phase 1.....  
Kilowatts required.....  
Type of lighting fixtures U.S.E.D. SF and CSF.....  
Heat.....  
How heated Electric heaters by others.....  
Water Sewer.....  
Connected to water mains... No.....  
Connected to sewer... No.....  
Type latrine None.....

REFERENCE:  
Reference of site 605.0.....  
Reference of instrument axis 604.08.....



ED Form A-162B  
16 Sept. 1943

FS-955

SECRET



100001

Work Accomplished in 1944

Standby power furnished this station by 3 KVA generator, No. 2 installed in new power house built under this Job No.

Existing 120V Cable serving this station tied into one set of 2- $\frac{1}{2}$  VUL Conductors from one of the 60A 2 P.D.T. Switches in power house.

(See Report of Completed Works, Part II (Modified) for Power House showing size of cables, switching instructions and other information)

Standby Power--Voltage 120 AC - Phase Single.

Kilowatts required..... 2.0 KW .....

Date of transfer of this work..... 11 July 1944 .....

Cost to date of transfer for all new work at this location including Power House, Cables etc.--\$2,083.58.

This is a portion of Job No. SF PS-21, Dir. Cons. PS-1254.

100  
100

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Paste on blue print showing  
plan of each story of building  
giving principal dimensions  
including height of ceiling.

OFFICE DIVISION ENGINEER  
PACIFIC DIVISION  
AUG 25 44 11 00 AM  
SAN FRANCISCO, CALIFORNIA

3620

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS  
(Electric Plants)

HARBOR DEFENSES OF SAN FRANCISCO  
FORT CRONKHITE, CALIFORNIA  
POWER FOR BATTERY TOWNSLEY

Form 5. Sheet 1 of 4. Corrected to July 24, 1940.

	: Serial No.	: Type	: Size	: Manufacturer	: Date of: Trans-fer	: Cost	: Con-: di-: tion:	: R.P.M.	: Type : of : Drive :	: Fuel :	: Switchboard : No. : Mat'l: Panels
Engine No. 1	15332	LGD	175 HP	Cummins	7-24-40	*	New	700	--	Diesel	
No. 2	15330	LGD	175 HP	Cummins	"	*	"	700	--	"	
No. 3	15331	LGD	175 HP	Cummins	"	*	"	700	--	"	
No. 4	15536	HGD	73 HP	Cummins	"	*	"	900	--	"	
Generator No. 1	1758517	CDM175A	100 kw.	G.E.	"	*	"	700	Eng-Dir.	--	
No. 2	1758474	CDM175A	100 kw.	G.E.	"	*	"	700	Eng-Dir.	--	
No. 3	1758475	CDM175A	100 kw.	G.E.	"	*	"	700	Eng-Dir.	--	
No. 4	1758473	2G454	35 kw.	G.E.	"	*	"	900	Eng-Dir.	--	
Radiator No. 1	None	RL-317-AW	--	Perfex	"	*	"	--	Mtr-Belt	--	
No. 2	None	RL-317-AW	--	Perfex	"	*	"	--	Mtr-Belt	--	
No. 3	None	RL-317-AW	--	Perfex	"	*	"	--	Mtr-Belt	--	
No. 4	None	RL-318-AW	--	Perfex	"	*	"	--	Mtr-Belt	--	
Radiator Motor											
No. 1	1756197	CDM75	7.5 HP	G.E.	"	*	"	1310/1750	Elec-DC	--	
No. 2	1756224	CDM75	7.5 HP	G.E.	"	*	"	1310/1750	Elec-DC	--	
No. 3	1756223	CDM75	7.5 HP	G.E.	"	*	"	1310/1750	Elec-DC	--	
No. 4	1756270	B225	7.5 HP	G.E.	"	*	"	1400/1750	Elec-DC	--	
M.G. Set-Motor	1748799	RA	15 HP	Wagner	"		"	1750	Elec-AC	--	
Generator	797195	CCD	10 kw.	Crocker-Whlrl.	"	660.25	"	1750	Mtr-Dir	--	
Transformer	52023	--	15 KVA	Gardner Elec.	"	250.90	"	--	Elec-AC	--	
Switchboard	None	Special	14'2"x7'2"	G.E.	"	*	"	--	--	--	Steel 7
Air Compressor	AS744	20	3000#	Ing.-Rand	"		"	500	Mtr-Dir	--	
Comp. Motor	1S22W795	SK	25 HP	Westinghouse	"	7,853.00	"	500	Elec-DC	--	
Fuel Strge. Tanks											
North	None	Steel	2400 gal.	Boiler Tank	"	183.00	"	--	--	--	
South	None	Steel	2400 gal.	Boiler Tank	"	183.00	"	--	--	--	
Fuel Serv. Tank	None	Steel	250 gal.	Cummins	"	*	"	--	--	--	
Fuel Pump No. 1	None	IGS	20 g.p.m.	Worthington	"	*	"	1750	Mtr-Dir	--	
No. 2	None	IGS	20 g.p.m.	Worthington	"	*	"	1750	Mtr-Dir	--	
Fuel Pump Motor											
No. 1	1760206	BC	1.5 HP	G.E.	"	*	"	1750	Elec-DC	--	
No. 2	1760207	BC	1.5 HP	G.E.	"	*	"	1750	Elec-DC	--	

AC commercial power to be supplied for BC stations etc. 675.1 (San Fran.) CM 0050  
Transfer & Const. Drawgs. - See O.C.E. # 215-20-23

(Electric Plants)

FORT CRONKHITE, CALIFORNIA  
POWER FOR BATTERY TOWNSLEY

Form 5. Sheet 2 of 4. Corrected to July 24, 1940.

	: Serial No.	: Type	: Size	: Manufacturer	: Date of Trans-fer	: Cost	: Con-: di-: tion:	: Type : of : Drive :	: Fuel :	: Switchboard : No. : Panels
Storage Btries. (2)	Type	Cat. No.								
	6XCK-21-3R	22600	12 V. Ea.	Exide	7-24-40	*	New	--	Elec-DC	--
Air Tank No. 1	21502	Steel	350#	) Pressed	"	*	"	--	--	--
No. 2	21501	Steel	350#	) Steel Tank	"	*	"	--	--	--
No. 3	21500	Steel	350#	) Co.	"	*	"	--	--	--
No. 4	21503	Steel	350#	)	"	*	"	--	--	--

NOTES:

1. Total available power, 335 kw. @ 125 V., D. C.
2. Itemized costs of items marked \* not available. Power plant, including generator sets, radiators, switchboard, fuel-service tank, fuel pumps, storage batteries, air tanks and accessories purchased from Cummins Diesel Sales Corp. under contract W-978-eng-1013 for \$56,473.36

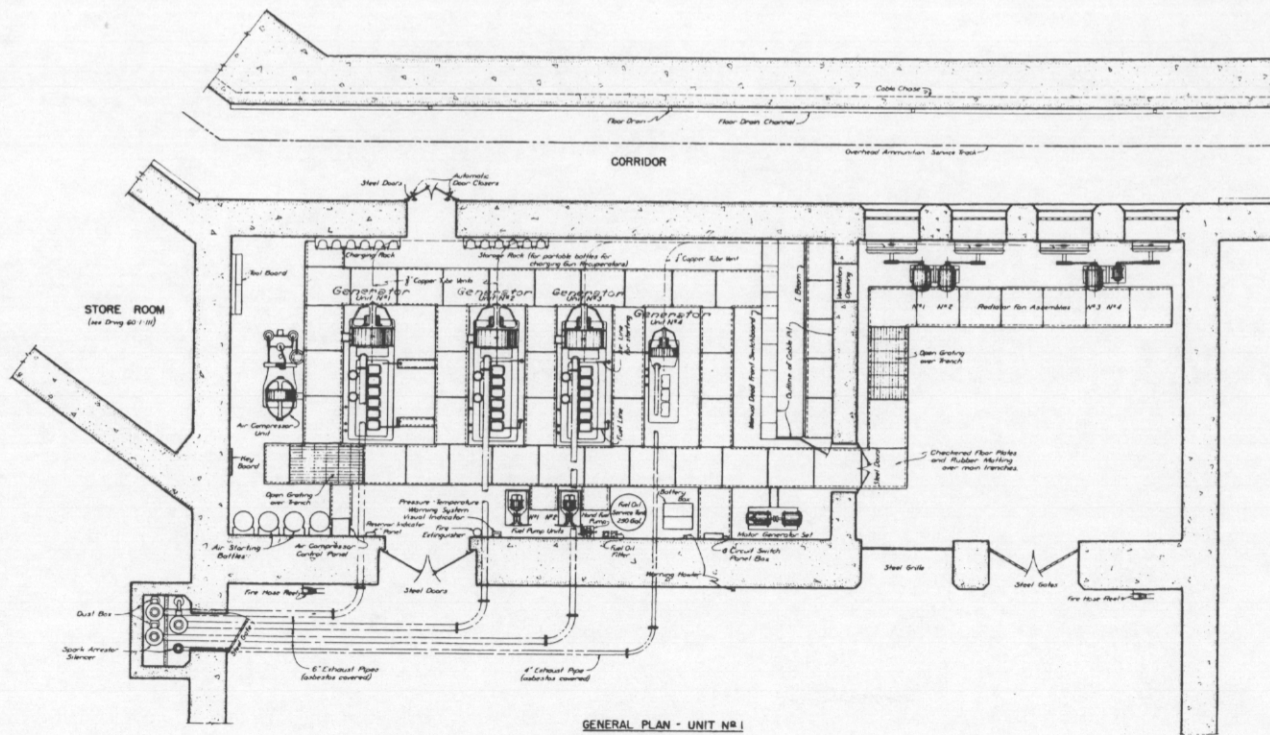
DISTRIBUTION OF POWER

Structure or Location	Name	MOTORS				LIGHTS (INCLUDING PLUGINS)											
		H.P.	F.L.	K.W.	Pln:	Number of Lights (115 V.)											
				Req'd.	Box:	2c.p.:	8c.p.:	40w.:	60w.:	100w.:	150w.:	200w.:	1.5	2.0	Req'd.	Req'd	
		Amps.	125 V	No.:	30 w.:	100w.:							kw.	kw.	115 V:	125 V	
Power	3 Radiators	7.5ea	58.5ea	21.93													
Rooms	1 Radiator	2.0	16.1	2.01													
Central	Air Comp.	25.0	168	21.00													
Traverse	2 Fuel Pumps	1.5ea	12.3ea	3.10	A								39		5		13.41
Magazine)	Coll. Prot.	0.5	5	0.63													
Subtotals	8 Motors	53.0	388.8	48.67									39		5		13.41
Magazine	Fan Motor No.1	.75	6.1	.76													
and	Fan Motor No.2	.75	6.1	.76	B,C								76		5		15.83
Casemates	Fan Motor No.3	.75	6.1	.76	D,E												
	Fan Motor No.4	.75	6.1	.76	& F												
Subtotals	4 Motors	3.00	24.4	3.04									76		5		15.83
Gun	Rammer	30.0	227	28.38													
No.	Elevating	50.0	375	46.88		6	3	10						8			14.00
1	Traversing	7.5	60	7.50													
	Compressor	30.0	231	28.88													
Subtotals	4 Motors	117.5	893	111.64		6	3	10						8			14.00
Gun	Rammer	30.0	227	28.38													
No.	Elevating	50.0	375	46.88		6	3	10						8			14.00
2	Traversing	7.5	60	7.50													
	Compressor	30.0	231	28.88													
Subtotals	4 Motors	117.5	893	111.64		6	3	10						8			14.00

DISTRIBUTION OF POWER 1

Structure or Location	MOTORS				LIGHTS (INCLUDING PLUGINS)												
	Name	H.P.	F.L.	Req'd.	Box	2 c.p.	8 c.p.	40 W.	60 W.	100 W.	150 W.	200 W.	1.5	2.0	Req'd.	Req'd.	
			Amps:	125 V.	No.	30 w.	100 w.						kw.	kw.	115 V.	125 V.	
Plotting ) Switchboard)	4 Coll. Prot.	.5ea	5	.63ea													
Radio Room )	2 Vent. Fans	.5ea	4.6	.58ea	A&B			18	15			4		10		25.40	
	MG Set Sw'Board	2	15	1.88													
	MG Set Radio	2	16	2.00													
SUBTOTALS	8 Motors	3	42.2	7.56				18	15			4		10		25.40	
B C Station													2		1	2.30	
SUBTOTALS													2		1	2.30	
Reserve Magazine																1	1.26
SUBTOTALS																1	1.26

FORT CRONKHITE, CALIF.



Form 6.

Corrected to July 24, 1940.

MISCELLANEOUS STRUCTURES

**WATER SUPPLY SYSTEM:**

- Spring Development - Spring area is approximately 2,000 feet east of Gun No. 1. Three spring sumps constructed of reinforced concrete. Each sump is 2-foot square by 4-foot deep with a 4-inch tile inlet and a 2-inch C.I. outlet. Water from the spring sumps gravity-flows to the collecting reservoir through a 2-inch C.I. pipe.
- Collecting Reservoir - Approximately 1,300 feet east of Gun No. 1. Old structure which has been reconditioned by placing Laykold on the interior walls and constructing a reinforced concrete roof and floor. Inside dimensions - 10 feet by 20 feet by 8 feet high. Approximately 2 feet of backfill over the structure. Capacity - 10,000 gallons.
- Pump House - Approximately 1,300 feet east of Gun No. 1. Constructed of reinforced concrete. Inside dimensions - 12 feet by 10 feet by 7 feet high. A 10-H.P. Fairbanks Morse gasoline engine and a double-acting duplex Fairbanks Morse pump with a capacity of 51 gallons per minute are used to pump water from the collecting reservoir to the storage reservoir or from the 3"-C.I. water line from Fort Barry to the storage reservoir.
- Storage Reservoir - Approximately 1,100 feet north of Gun No. 1. Constructed of reinforced concrete. The reservoir is divided into two equal compartments with a reinforced concrete manhole to each compartment and another manhole containing all of the valves. The inside dimensions of each compartment are 10 feet by 43 feet by 8 feet high. The floor of each compartment slopes 8 inches toward the outlet end. Approximately 2 feet of backfill over the structure. Capacity - 50,000 gallons.

**SEWAGE SYSTEM:**

- The sewage system consists of approximately 2,200 feet of 6-inch Ivanstone sewage pipe. The outfall of the sewage system is approximately where Rodeo Lagoon flows into the Pacific Ocean.

**PORTABLE WAREHOUSE:**

- On the lower extension of Wolf Ridge roadway, approximately 2,100 feet northwest of Gun No. 1. Pre-fabricated structural steel framed portable building, assembled on reinforced concrete footings. The floor is reinforced concrete and the sides and roof are corrugated metal. Inside dimensions - 50 feet by 20 feet by 10 feet high.

*Transfer & Const. Drwgs. - O.C.E. # 215-20-23*