

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

COAST DEFENSES OF LOS ANGELES, CALIF.
FORT MACARTHUR.

* *Connected to*
BATTERIES LEARY AND MERRIAM. *HDCP*
No. of guns TWO Caliber 14-INCH Carriage

Form L.

Corrected to May 11, 1926.

Battery commenced	: Jan. 20, 1916	: Sources of electric current	: Two 25-kw. sets in batteries and
Battery completed	: Oct. 10, 1919	:	: commercial power
Date of transfer	: Oct. 10, 1919	: Max. kw. required for lights	: 10.92
Material of construction	: Concrete, reinforced	: Max. kw. required for motors	: 28.87
Portland or Rosendale cement	: Portland	:	:
Cost to date of transfer	: \$251,362.63	:	:
Connected to water supply	: Yes.	: Present condition of battery	: Good
Connected to sewer	: Yes.	: Rooms wet or dry	: Dry
Type of latrine	: Syphon	:	:
Type of data transmission	: Telephone, mechanical	: How ventilated	: Blowers and 10-inch vent pipes in
	: indicators & speaking	:	: plotting rooms and officers
	: tubes	:	: toilet, 10" tile ventilators in
Trunnion elevation in battery	: Leary 293.10	:	: latrine and magazines.
	: Merriam 293.08	: Remarks-	:
Datum plane	: M.L.L.W.	:	:

ARMAMENT.

Emplacement	Guns or Mortars					Carriages					
or mortar No.:	Cal.:	length:	Model	Serial No.:	Manufacturer	Mounted	Type	Model	Serial No.:	Manufacturer:	Motor
Leary	:14"	:48'3"	:1910 Mi.:	14	:Watervliet Ars.	:May 14, 1917:	Dis LF:1907 Mi:	18	:	: Watertown Ars	405410
Merriam	:14"	:48'3"	:1910 Mi.:	16	: " "	:Apr. 24, 1917:	Dis LF:1907 Mi:	19	:	: " "	:405411
:	:	:	:	:	:	:	:	:	:	:	:

HOISTS

Emplacement	Motor									
Number	Type	Delivery	Serial No.	Maker	H.P	Volts	RPM	Type of control	Date of transfer	Remodeled for
:	:	:	:	:	:	NONE	:	:	:	: long points
:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:

* Salvage of armament & equipment directed by ASF 14 Jan 44 - 400.93 (Los Angeles) CM 76093
HDCP-HECP being constructed in this emplacement.
* Battery converted to HDCP-HECP-HDCP₂ & G, See Fire Control this Port.

BATTERY PLAN

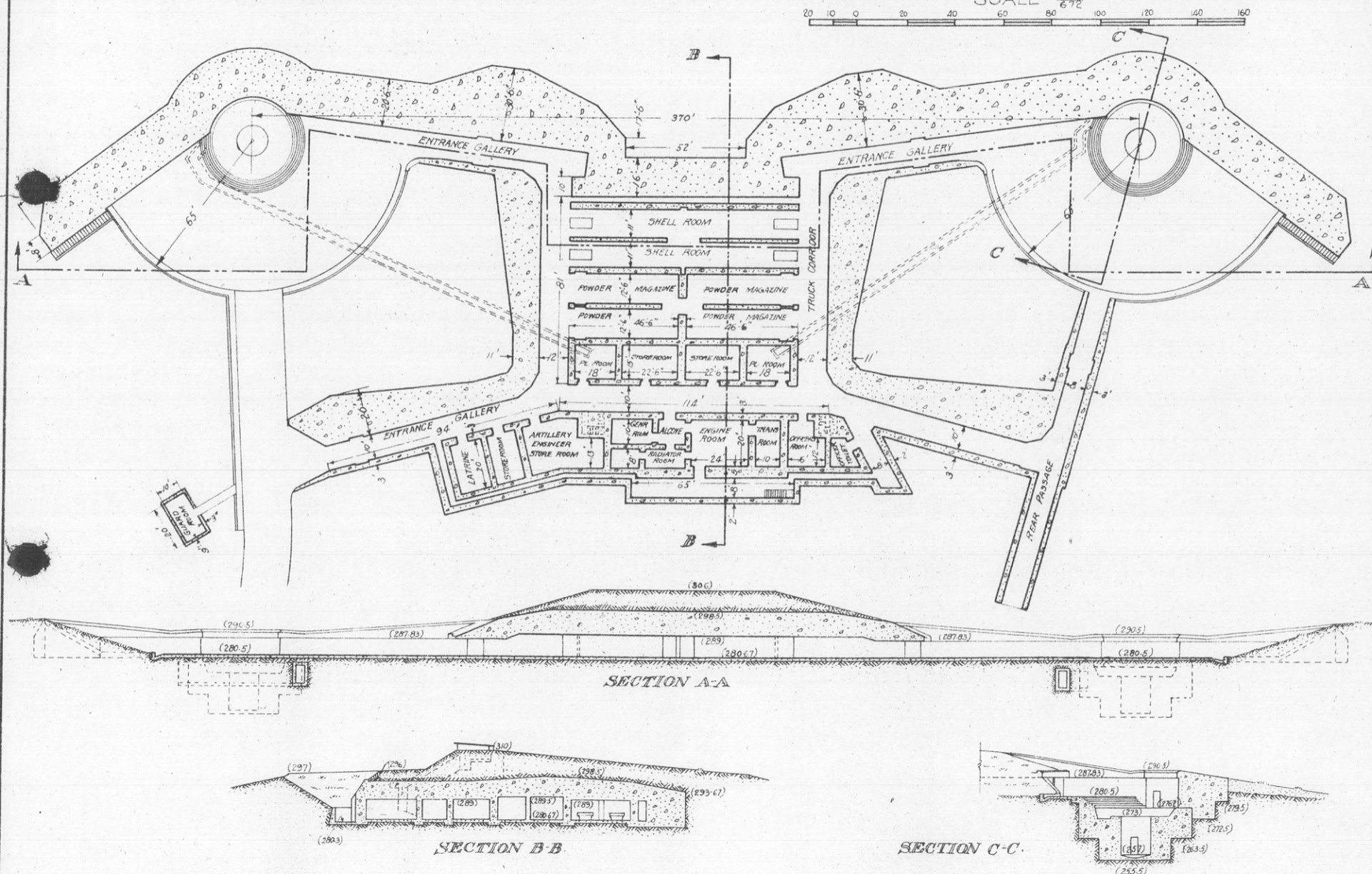
CORRECTED TO OCTOBER 6, 1919.

FORT MAC ARTHUR, CAL.

BATTERIES LEARY AND MERRIAM.

NO. OF GUNS TWO, CALIBER FOURTEEN INCH, CARRIAGE DIS. L.F.

SCALE $\frac{1}{672}$

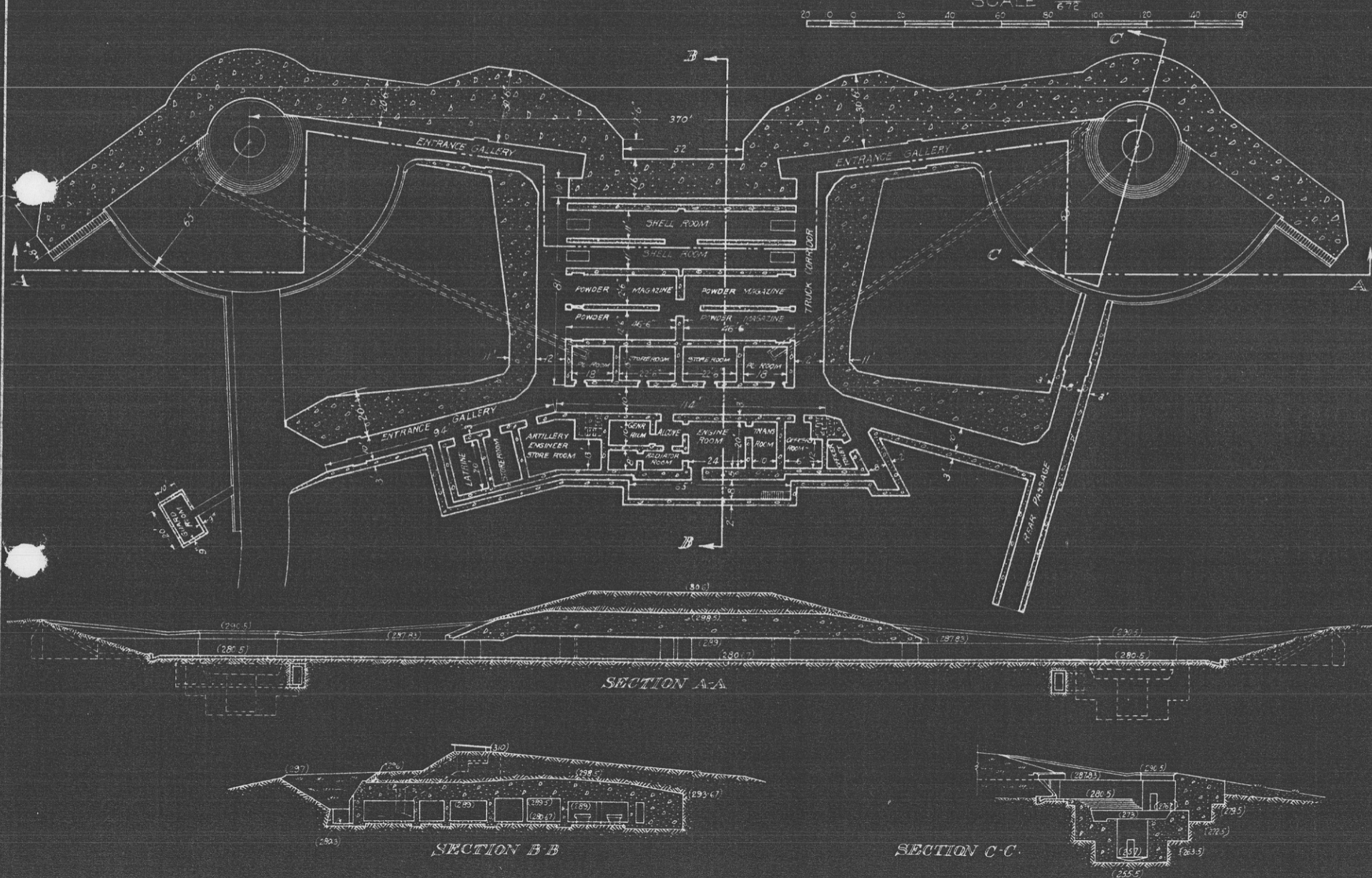


CORRECTED TO OCTOBER 6, 1919.

FORT MAC ARTHUR, CAL.

BATTERIES LEARY AND MERRIAM.

SCALE 672



REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Electric Plants)

COAST DEFENSES OF LOS ANGELES, CAL.
FORT MACARTHUR.
POWER FOR BATTERIES LEARY & MERRIAM

Form 5.

Corrected to OCT 10 1919

	Serial No.	Type	Size	Mfr.	Date of transfer	Cost	Con- dition	RPM	Belt or Direct Drive	Radiator for Engine No.	Fuel	Switchboard		
												Mate- rial	No. of Panels	
Boiler No. 1					See 675.1 (4th C.A.) Date on completion drawing shown as 8/20/19. Actual date of installation not available.									
No. 2														
No. 3														
Engine No. 1	11266	GM-12	43/54	G.E.			Good	600	Direct			Gasoline		
No. 2	19610	GM-12	43/54	G.E.			Good	600	Direct			Gasoline		
No. 3														
Generator														
No. 1	1423857	ATI-10	25-kw.	G.E.			Good	600	Direct					
No. 2	1423858	ATI-10	25-kw.	G.E.			Good	600	Direct					
No. 3														
Radiator														
No. 1	17096	FF 54	B-10	G.E.			Good	1000	Direct		1			
No. 2	17098	FF 54	B-10	G.E.			Good	1000	Direct		2			
No. 3														
Motor-generator														
No. 1														
No. 2														
No. 3														
Switchboard	394													
Storage Battery														
Transformer														
No. 1														
No. 2														
No. 3														
Induction Motors														
No. 1	1479861	KT 201	3 H.P.	G.E.			Good	1000	Direct					
No. 2	1400203	KT 201	50 cyl. do	G.E.			Good	1000	Direct					
No. 3														

See	675.1 (9th C.A.)		
Volts	Cycle	Wires	Used for
115 AC	50	3	Q.M. Panels
115 AC	50	3	No

Vermont	4 full
marble	panels, 1
	Tyrol re
	gulator, 1
	gen., 1
	syn. pane

DISTRIBUTION OF KW. Battery Leary Panel No.1 3.56 K.W. Panel No.2 1.80 K.W. From main switchboard in Power Rm. 0.88 K.W.
Battery Merriam. Panel No.1 2.04 K.W. Panel No.2 2.64 K.W.

3-1/8 H.P. Fans. 0.30 K.W. 38.3 H.P. Motor (Motor Generator Set in Power Rm) 28.57

Salvage of armament & equipment of Leary-Merriam directed by ASF 1/14/44 - 400.93 (Los Angeles) CIM 76093

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

S. SKM-1
HARBOR DEFENSES OF LOS ANGELES
FORT MAC ARTHUR
STRUCTURE: HDOP - HECF - HDOP₂ - G₁

Part II Corrected to 13 January 1945

STRUCTURE: W 7213
Location (by coordinates) S 4819
Location (site description) Site No. 6
Date of transfer: 7 November 1944
Cost to that date: \$69,356.02 * *see other side*
Type: Dug-in
Type of construction
(a) Roof: Reinforced concrete -(HDOP₂ & G₁ - Plastic Armor)
(b) Remainder of bldg.: Reinforced concrete
How concealed: HDOP-HECF underground
How protected: HDOP₂-G₁ splinterproofed
Height above concealment: HDOP₂-G₁ - 3 feet
Height above protection: HDOP₂-G₁ - 3 feet
Conspicuous at 100 yards

UTILITIES:

Electric power
Source of: Commercial & 2 - 25 KW standby generators
Characteristics: Voltage 2400 AC
Kilowatts required: 45 at 3 phase & 100 KW at 1 phase
Type of lighting fixtures: Direct
Heat
How heated: Air conditioning system
Water sewer
Connected to water mains: Yes
Connected to sewer: Yes
Type latrine: Syphon-jet

REFERENCE:

Reference of site: Elevation 310.0
Reference of instrument axis: HDOP₂ - Elevation 312.91
G₁ - Elevation 310.92
Datum is Mean Lower Low Water

INSTRUMENT & EQUIPMENT:

Type of observing inst.: 1 azimuth & 1-DPF each,
in HDOP₂ & G₁
Type of plotting board: None

DATA TRANSMISSION:

Type: Telephone
Date of transfer: No record (Signal Corps item)

REMARKS: (SEE ALSO REVERSE)

HDOP - HECF: Formerly Battery Leary-Merriam
HDOP₂: Formerly G₂ Station (prior to Mod. Program)
G₁: Formerly BC-Leary (Prior to Mod. Program)

Origin of local coordinates: Station "R" (U.S.C. & G.S.
Sta. "Deadman's Island")

DUE TO SIZE OF STRUCTURE, ACCOMPANYING 8" x 10 1/2"
DRAWING IS FURNISHED IN LIEU OF PRESCRIBED 3" x 5 1/2"
DRAWING ATTACHED TO FORM FOR FIRE CONTROL STRUCTURES.

~~CONFIDENTIAL~~

THIS REPORT SUPERSEDES THE FOLLOWING:

1. Report, dated 11 May 1926, "Batteries Leary & Merriam," with drawing, Form 7, dated 6 October 1919. Transferred 10 October 1919; cost to that date: \$251,362.63.
(Armament removed by Ordnance Department during November 1944)
(2 - 25 KW generators remain in place; 3 - 10 KW transformers replaced by 3 - 15 KW and 1 - 100 KW, added, as shown on Part V of report).
2. Report, dated 30 June 1920, "F₂¹ Station." Transferred 30 June 1920, cost to that date: \$2213.51, structure later designated: G₂, is now HDOP₂(Mod. Program - 1941).
3. No record of original report for BC-Leary (now G₁ Command Post)

No record of original report for BC-Merriam (now B₆ S₆ located to left flank on top HDOP-HECP structure. Splinter-proofed under Job No. Fort MacArthur FS-5, Directive Consecutive No. FS-1009; see report dated 18 August 1944, submitted to OCE, letter of same date).

Cost reported on reverse covers conversion of structures, Items Nos. 1, 2, and 3, above.

5512

OFFICE DIVISION ENGINEER
PACIFIC DIVISION

FEB 5 45-1030 AM

SAN FRANCISCO, CALIFORNIA

HARBOR DEFENSES OF LOS ANGELES, CALIF.

FORT MAC ARTHUR

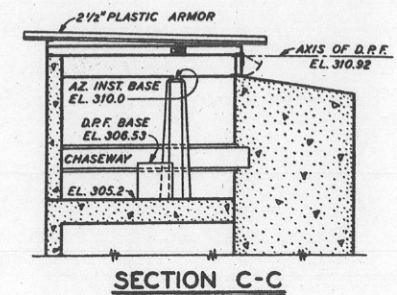
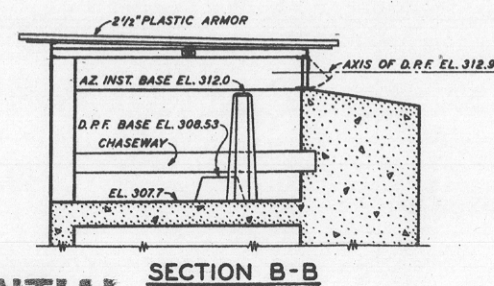
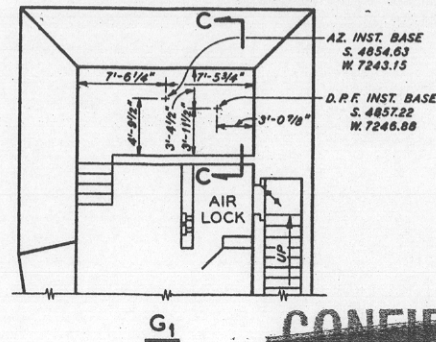
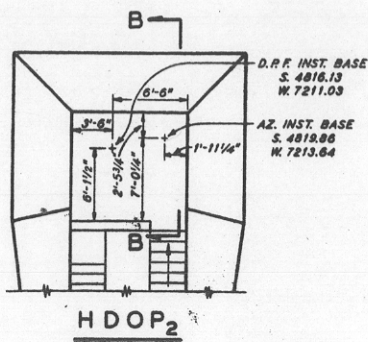
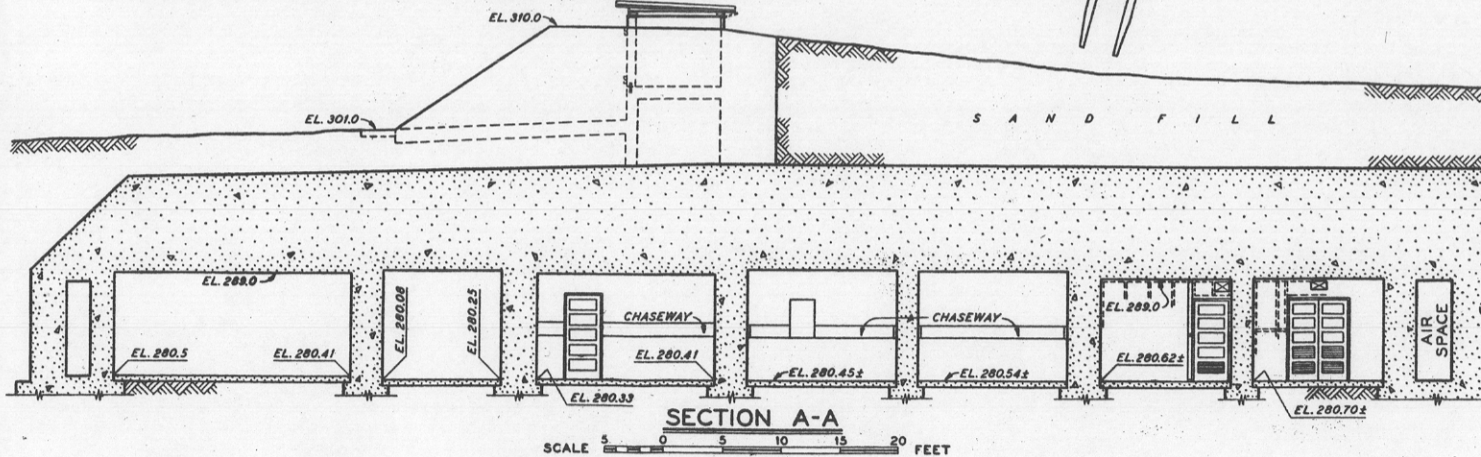
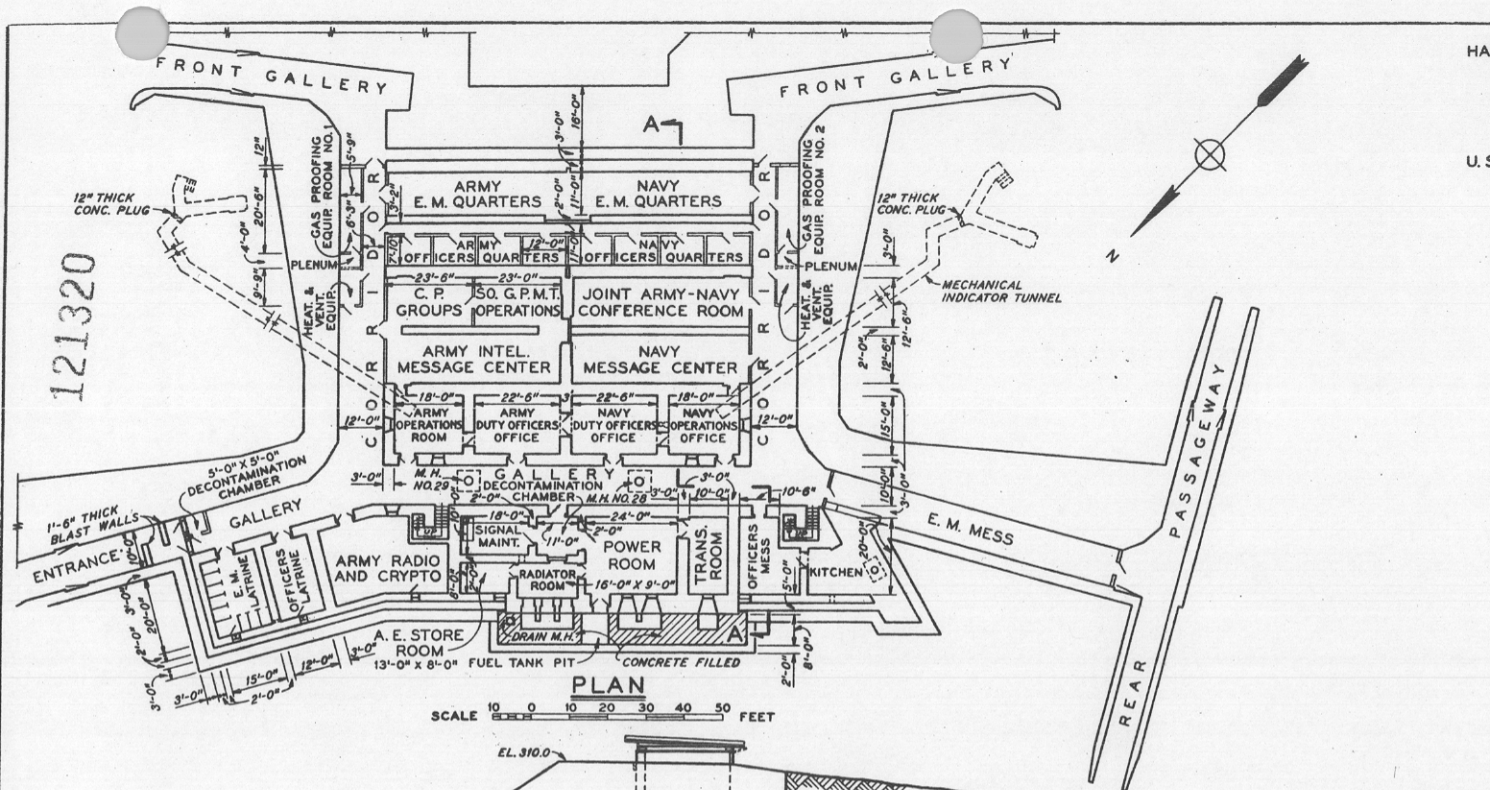
HDCP-HECP-HDOP₂-G₁

U. S. ENGINEER OFFICE, LOS ANGELES, CALIF.

~~CONFIDENTIAL~~

JAN 13 1945

Arch 21



~~CONFIDENTIAL~~

SCALE 1 0 5 10 FEET