

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

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

Form 1. Corrected to Dec. 10, 1924.

No. of guns 2 Caliber 12" Carriage Barbette
Model 1917.

Battery commenced	: Mar. 1917	: Sources of electric current	: 2-25 K.W. sets (Gasoline-Electric)
Battery completed	: Apr. 2, 1921		
Date of transfer	: Apr. 2, 1921	: Max. kw. required for lights	: 7.850 k.w.
Material of construction	: Concrete	: Max. kw. required for motors	: 15.0 k.w.
Portland or Rosendale cement	Portland		
Cost to date of transfer	: \$297,933.04		
Connected to water supply	: Yes	: Present condition battery	: Excellent
Connected to sewer	: Yes (to septic tank)	: Rooms wet or dry	: Dry -(some condensation)
Type of latrine	: Syphon (jet tank)	: How ventilated	: Through grating doorways and windows, & motor driven blower connecting to air ducts to magazines. All magazines are separate rooms with air passages between.
Type of data transmission	: Telephones & Speaking Tubes		
Trunnion elevation in battery	: Empl #1-14.376 ft. #2-14.367 "	Remarks: -	: Steam heat in Qtrs, Toilets, Plot'g Rms. install'd Sept. 1919. : Vent. duct & blower for Mag. instal. Dec. 1923 : Plottg. Room (right flank) sheathed (asbestos) Dec. 1923. : 25 K.W. exhaust mufflers installed in pit, top of cover, Dec. 1923. : Electric driven sump pump installed in M.H. Gun #1 Kingman Dec. 1923.
Datum plane	: M.L.W.		

ARMAMENT

Emplacement No.	GUNS or MORTARS						Carriages				
	Cal.	Length	Model	Serial No.	Mfgr.	Mount	Type	Model	Ser. No.	Manufacturer	Motor
1	12"	35 cal.	1895MI	65	Ord. Dept.	April 1919	Barbette	1917	4	Ord. Dept.	None
2	12"	do.	do.	53	do.	March 1919	do.	1917	5	do.	None
3											
4											
5											
6											
7											
8											

HOISTS

Emplacement Number	Type	Deli-very	Motor					Date of Transfer	Remodeled for long points.
			Ser. No.	Maker	H.P.	Volts	RPM		

Trolley hoists (hand chain hoists) operating on I beam track are installed in powder and shell rooms. *Electric driven sump pump installed in M.H. Gun #2 - see Report of Operations December 2nd 1924 over*

Major Repair work since July 1, 1923:

F.Y. 1927 - Conc. platforms and retaining walls.
work at Batty Mills

\$4200 - This includes similar

" 1928 - Service Ry. for Kingman & Mills

\$6210

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Electric Plants)

COAST DEFENSES OF SANDY HOOK
FORT HANCOCK, N.J.

POWER FOR Kingman & Mills Batteries.
(Battery Kingman.)

Form 5.

Corrected to September 28, 1921.

	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													
No. 2													
No. 3													
Engine No. 1	11234	G.M. 12	43/54 HP	G.E.	Mar. 31, 1921		New	560	Direct		Gasoline		
No. 2	14472	"	"	"	"		"	"	"		"		
No. 3													
Generator No. 1	449034	M.P.C. 6	25 K.W.	G.E.	Mar. 31, 1921	84,700	New	"	"				
No. 2	679204	"	"	"	"	per set	"	"	"				
No. 3													
Radiator No. 1	10528	F.F. 54		G.E.	Mar. 31, 1921		New			11234			
No. 2	14869	"		"	"		"			14472			
No. 3													
Fan Motor-Generator No. 1	689073	C.V.C. 112	3 H.P.	G.E.	Mar. 31, 1921		New	1150					
No. 2	930059	"	"	"	Mar. 31, 1921		"	"					
No. 3													
Switchboard No. 1 Gen.	F.O. 235	Gen. Panel	82"x 20"	Walker Co.	Mar. 31, 1921		New					Marble	1-Gen. Panel.
Storage Battery No. 2	" 234	" "	" "	" "	" "		"					"	"
Transformer No. 3 Dis.		Dis. "	" "	" "	" "		"					"	1-Dis. Panel.
No. 1													
No. 2													
No. 3													
Auxiliaries No. 1													
No. 2													
No. 3													

DISTRIBUTION OF KW. Lights 9 K.W.
Power 6 K.W. (Elev. motors.)

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

Harbor Defenses of Sandy Hook
 FORT Hancock
 STRUCTURE Provisional (Frame) B.C. Station at
Battery Kingman

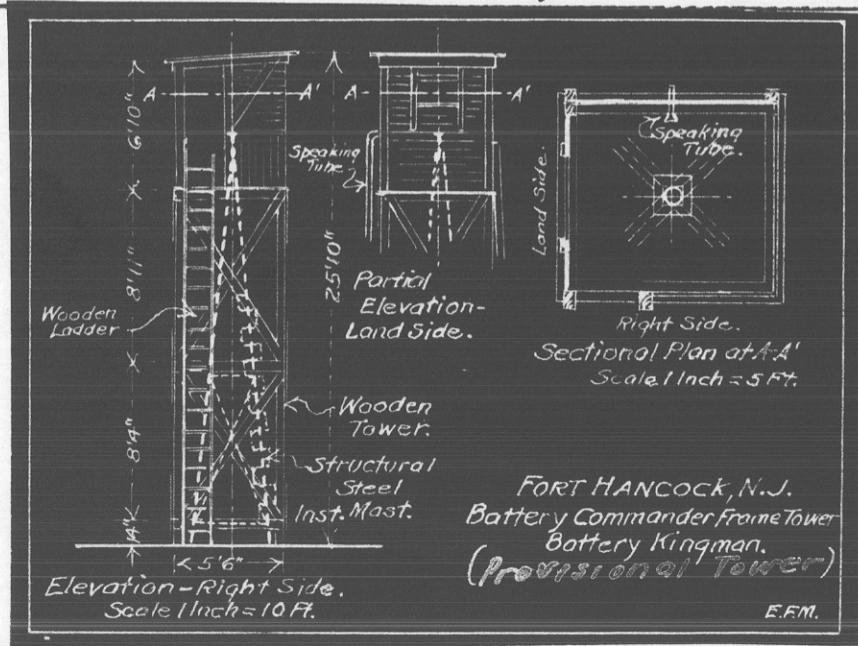
Form 2

Corrected to May 18, 1926.

Location	: Atop southerly concrete	: Type of data transmission	: Speaking tube to sta-
	: B.C. Station at Battery	:	: tion. B.C. Telephones
	: Kingman	:	: at foot of tower.
Date of transfer	: Feb. 3, 1926.	: Date of transfer	: Feb. 3, 1926.
Cost to date	: \$350. (excl. of steel tripod)	: Cost of data transmission equipment	: -
Type of construction	:	: For tide stations give description:	:
(a) Roof	: Wood sheathing, waterproofed	of tide gage	: -
(b) Remainder of building	: frame (steel inst. tripod)	: For datum points give Forts from	: All Fort Hancock
How concealed	: No concealment (trees in	: which visable	: datum points are
	: front) of Battery	: For dormitories give stations	: visable
How protected	: Not protected	: served	: -
	:	: For cable hut give S.C. type	: -
Height above concealment	: 26 ft.	:	:
Height above protection	: 26 ft.	:	:
Conspicuous at 3000 yards from rear:	:	:	:
Not conspicuous " front:	:	:	:
Source of electric current	: No light or power current	:	:
	: used in station	:	:
Kilowatts required	: -	:	:
Type of lighting fixtures	: -	:	:
How heated	: Not heated	:	:
Connected to water mains	: No	:	:
Connected to sewer	: No	:	:
Type of latrine	: -	:	:
Permanent or temporary installation:	: Semi-temporary	:	:
Present condition	: Fair	:	:

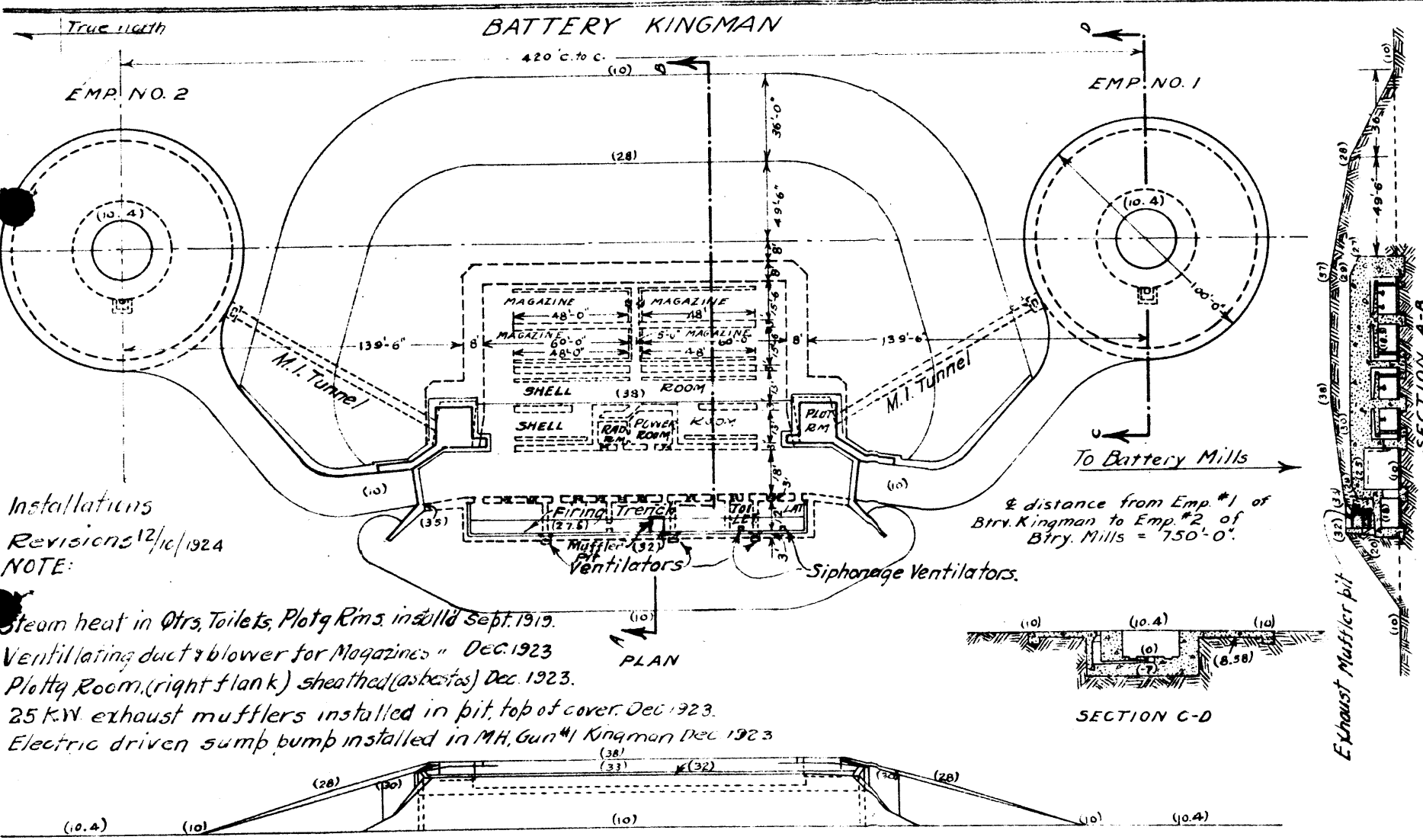
Reference of site	: (38.0) top of concrete
	: wall at B.C. Station
# Reference of instrumental axis	: 59.67 = top of inst. tripod
Type of observing instrument	: -
Type of plotting board	: -
Type and capacity of crane	: -
Max. dimensions of reel handled	: -

Instrument not in place this date.



Corrected to Dec. 10, 1924.

Scale: 1" = 60'



Installations

Revisions 12/10/1924

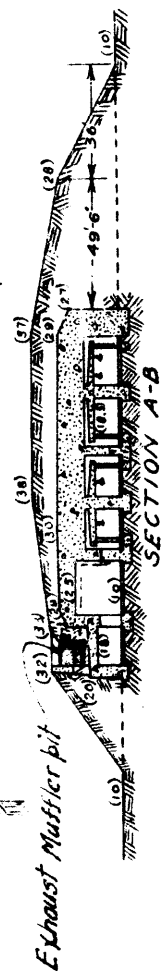
NOTE:

- Steam heat in Qtrs, Toilets, Plotg Rms. installed Sept. 1919.
- Ventilating duct & blower for Magazines" Dec. 1923
- Plotg Room, (right flank) sheathed (asbestos) Dec. 1923.
- 25 K.W exhaust mufflers installed in pit, top of cover. Dec. 1923.
- Electric driven sump pump installed in MH, Gun #1 Kingman Dec. 1923

Distance from Emp. #1 of Btry. Kingman to Emp. #2 of Btry. Mills = 750'-0".

PLAN

SECTION C-D



REAR ELEVATION

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

COAST DEFENSES OF SANDY HOOK FORT HANCOCK

Dec. 10, 1924.

Corrected to

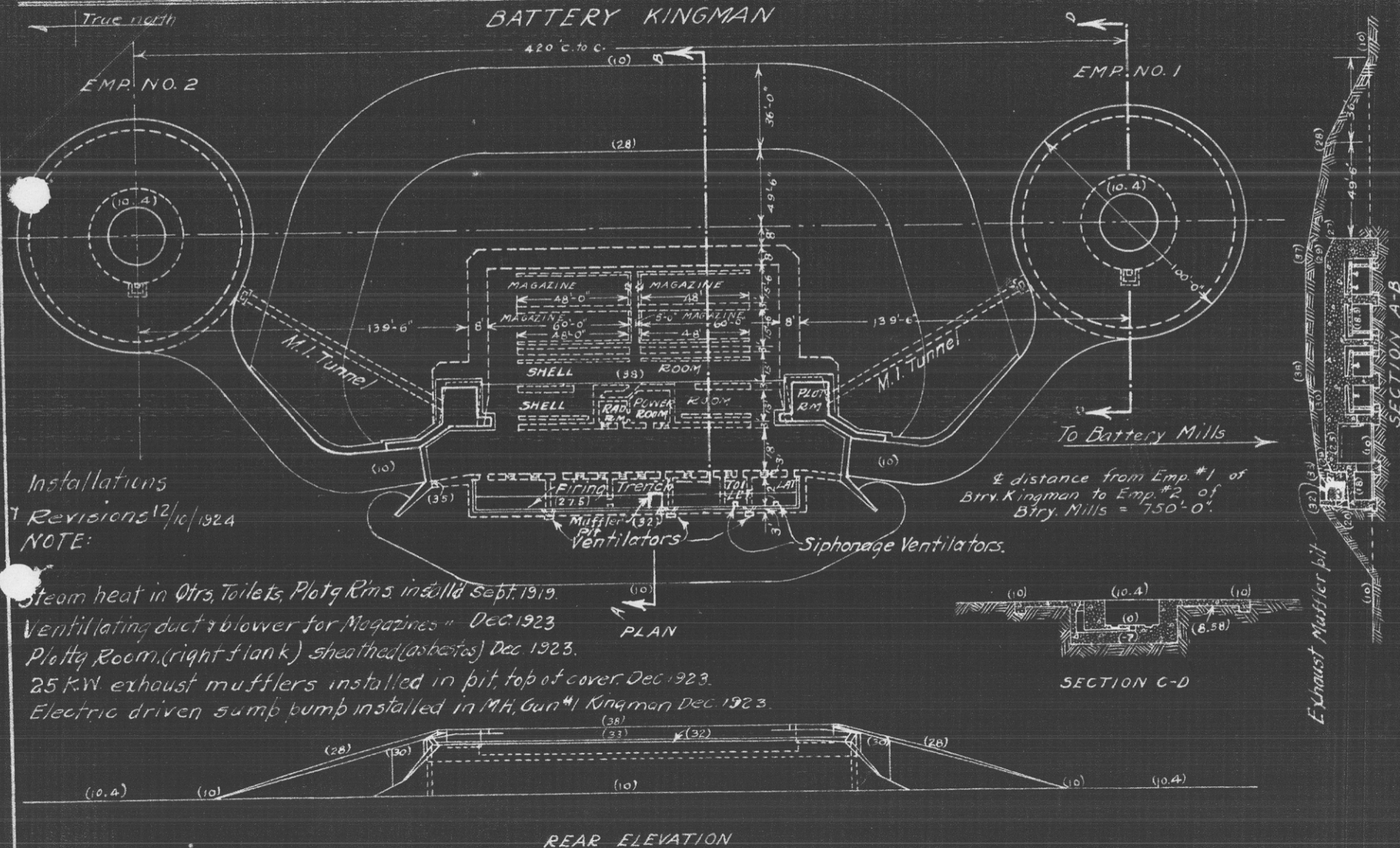
BATTERY KINGMAN

No. of Guns 2

Caliber 12"

Carriage Barbette

Scale: 1" = 60'



Installations

Revisions 12/10/1924

NOTE:

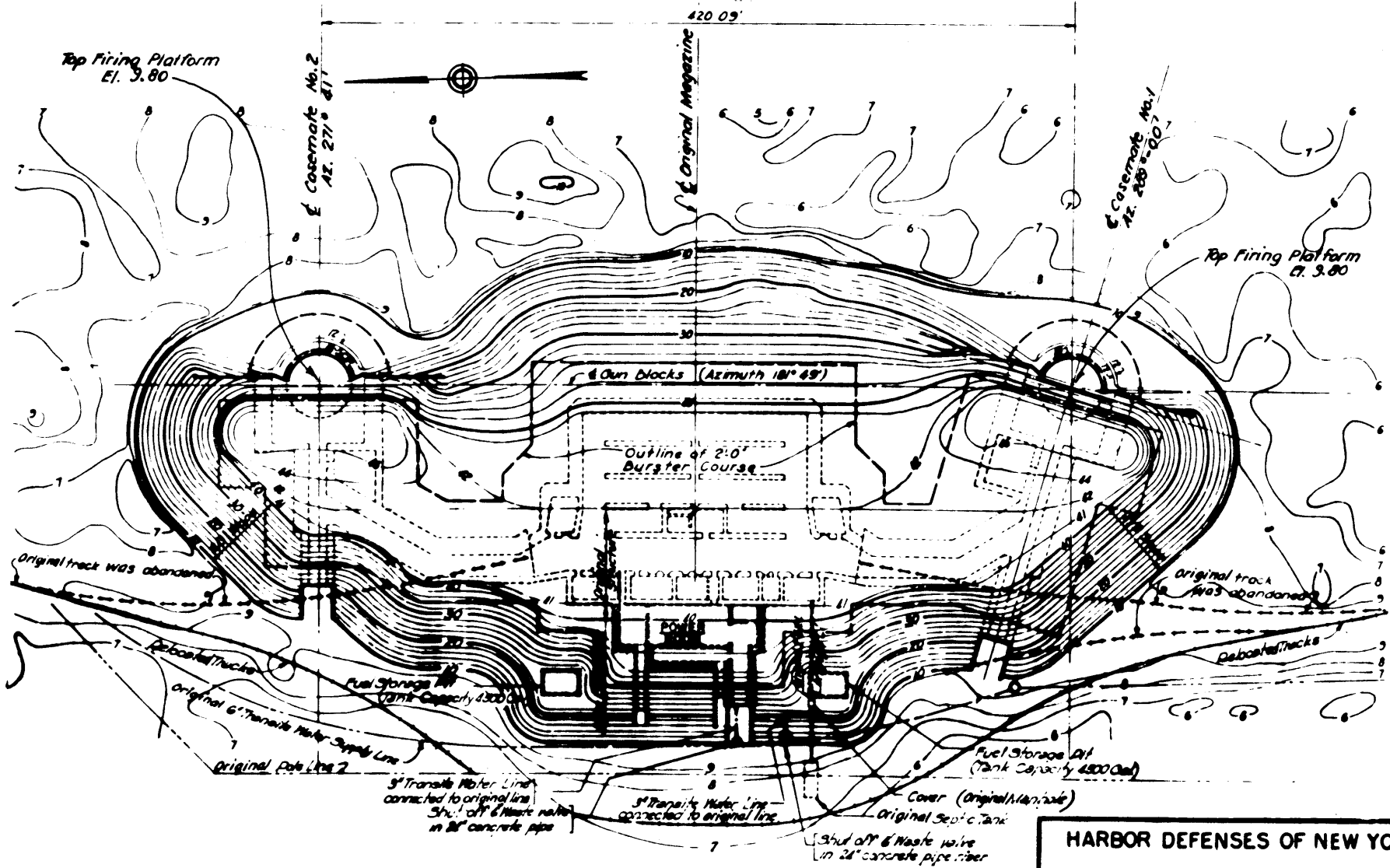
Steam heat in Qtrs, Toilets, Plotg Rms installed Sept. 1919.

Ventilating duct & blower for Magazines - Dec. 1923

Plotting Room, (right flank) sheathed (asbestos) Dec. 1923.

25 H.P. exhaust mufflers installed in pit, top of cover. Dec. 1923.

Electric driven sump pump installed in MH, Gun #1 Kingman Dec. 1923.



BATTERY KINGMAN

SCALE IN FEET



NOTE
Elevations refer to Mean Low Water Datum

HARBOR DEFENSES OF NEW YORK

BATTERY KINGMAN

CASEMATES AND POWER ROOM

FT. HANCOCK **NEW JERSEY**

600.914(74) 114220
 REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
 (Batteries)

HARBOR DEFENSES OF NEW YORK
 FORT HANCOCK, NEW JERSEY
 BATTERY KINGMAN * No. of Guns 2
 Caliber 12" Carriage Barrette

SPEKM-1

114220

Part I Corrected to 28 NOV. 1944

GENERAL:

Battery commenced March 1917
 Battery completed 2 April 1921
 Date of transfer 2 April 1921
 Cost to date of transfer \$297,933.04. Project 270. Funds
 Materials of construction Concrete
 Battery new or modernized Modernized
 (If modernized give detailed statement
 on reverse side) No. 1 - El. 14.376 M.L.W.
 Trunion elevation in btry. No. 2 - El. 14.367 M.L.W.
 Datum plane Mean Low Water

UTILITIES:

WATER SUPPLY

Source of Reservation System
 Alternate source
 Size of Main 6" ϕ Transite

SEWER

Connected to sewer Yes
 Type of Disposal Septic Tank
 Type of Latrine Sanitary Flush Syphon Jet (Tank)

UTILITIES (Cont'd)

ELECTRIC POWER

Sources of Engine Generators & Commercial
 Procured & installed by (OCE or ORD) Commercial by O.C.E.
 Characteristics: Voltage 450/120/208 Ac or DC Phase 3 Ord.
 No. of units and capacity 3
 Max. K.W. required for utilities 25 KVA
 Max. K.W. required for non-battle conditions 25 KVA
 Commercial power provided (yes or no) Yes Capacity 50 KVA
 Auxiliary power unit provided (yes or no) no Capacity
 Type of lighting fixtures Std. U.S.E.D. & Comm. Std. C.S.F. Westinghouse 10 H.P.
 Dehumidifying Unit.. Make and capacity Westinghouse* 10 H.P.
 Rooms Wet or Dry Dry
 How ventilated Vent shafts (Plott. Rm., Exhaust fans, (Power Room)
 How heated Steam heat installed in quarters, latrines & plotting rooms - Sept. 1919.
DATA TRANSMISSION
 Type Telephones

REMARKS See attached sheet for additional construction.

* 3 HP Dehumidifying units in main corridors.

ARMAMENT

SECRET

Emplacement No.	Cal.	Length	Model	Guns			Carriages				
				Serial No.	Manufacturer	Mounted	Type	Model	Serial No.	Manufacturer	Motor
1	12"	35 Cal.	1895 M.1	65	Ordnance Dept.	Apr. 1919	Bar-bette	1917	4	Ordnance Dept.	None
2											
3	12"	35 Cal.	1895 M.1	63	" "	Mar. 1919	Bar-bette	1917	5	" "	" "

Sandy Hook project ca. 1917

* Declared Excess Apr. 30 1947 ACF
 (1) 2021/100 (2) 3000-41000000 1/2 D.

Kingman

Nature & Cost of Additional Repairs & Modifications (Battery Kingman)

1923

Sump Pump Installation..... \$ 200.00

1925

Modification to Plotting Room..... 1,500.00

January 1937

Installation of dehumidifying and air circulating equipment to eliminate condensation.

Material: Freon gas compressor, cooling coil, heating coil, fan, humidistat, control switches, ducts & grilles..... 2,113.00
Labor..... 1,721.64
\$ 3,834.64

1937

Electric Power installation - 3 phase A.C. line to Battery Kingman..... \$ 681.00

1937

Water Supply System -

Pumping unit: Deming Co.; Unit #83400, 930 gallons per hour capacity, 1 1/2" discharge with 1 1/2 H.P. motor..... 121.00
Check & relief valves and gauge..... 9.75
Electric panel board with pressure switch, gauge and magnetic starting switch..... 44.25
(Tanks were from surplus stock) \$ 175.00

1942-1943

(a) Casemates and corridors added to original magazine..... \$475,097.27
(b) Power Room added to C.T. Magazine..... 131,745.63
(c) Electrical Power Extension..... 1,760.77
(d) Gasproofing system installed..... 6,582.54
(e) Alterations to original septic tank..... 1,510.84
(f) Additions to original ventilating system..... 2,463.22
(g) New wood doors (Powder Magazine Rooms)..... 590.35
(h) Blastproofing - Modifications resulting from gunfire tests 4,068.18
\$623,818.80

1944

Power Room Heating System

This project consists of the installation of oil fired hot water boiler, induced draft fan.

4 unit heaters and necessary piping.

2 new closures to isolate heated areas as follows: Power Room, Water Cooler Room, Muffler Gallery and Corridor..... \$2,186.97

1944 - Additional Dehumidification System.

This project consists of installation of 3 self-contained dehumidifying units with 3 H.P. compressor. Necessary wiring, ductwork, condensate dry wells and closures for corridors..... \$10,033.72

SECRET

SECRET

FS-295

2186.97
26005.77

FS-996

FS 143441473

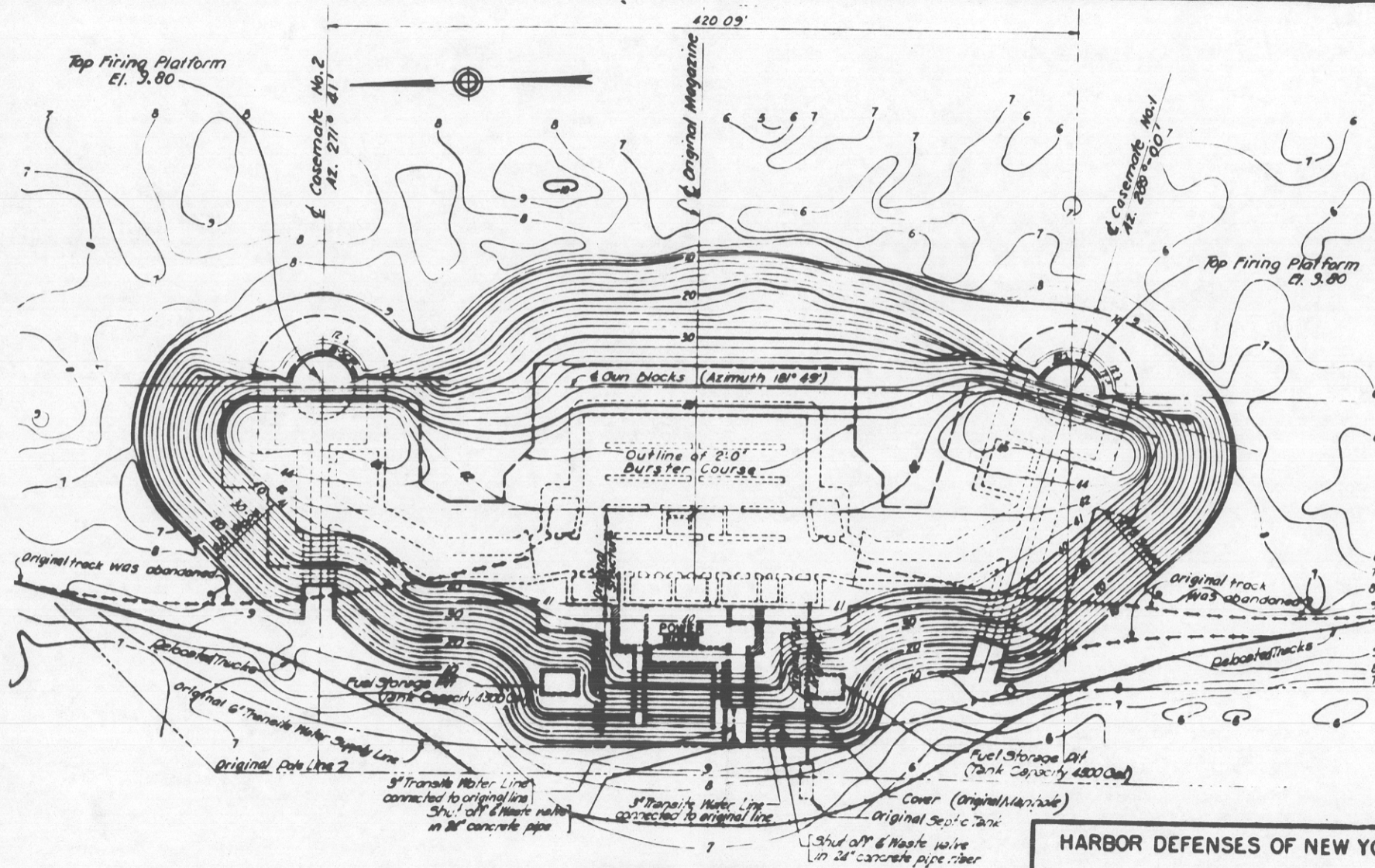
Kingman

Nature & Cost of Additional Repairs & Modifications (Cont'd.)

1944 - This project consists of the removal of existing direct current, gasoline engine driven generators, switchboard, jacket water cooling radiators and related equipment. Restoration of floors and miscellaneous repairs...\$ 1,380.00

637,419.49

SECRET



BATTERY KINGMAN

SCALE IN FEET



NOTE
Elevations refer to Mean Low Water Datum

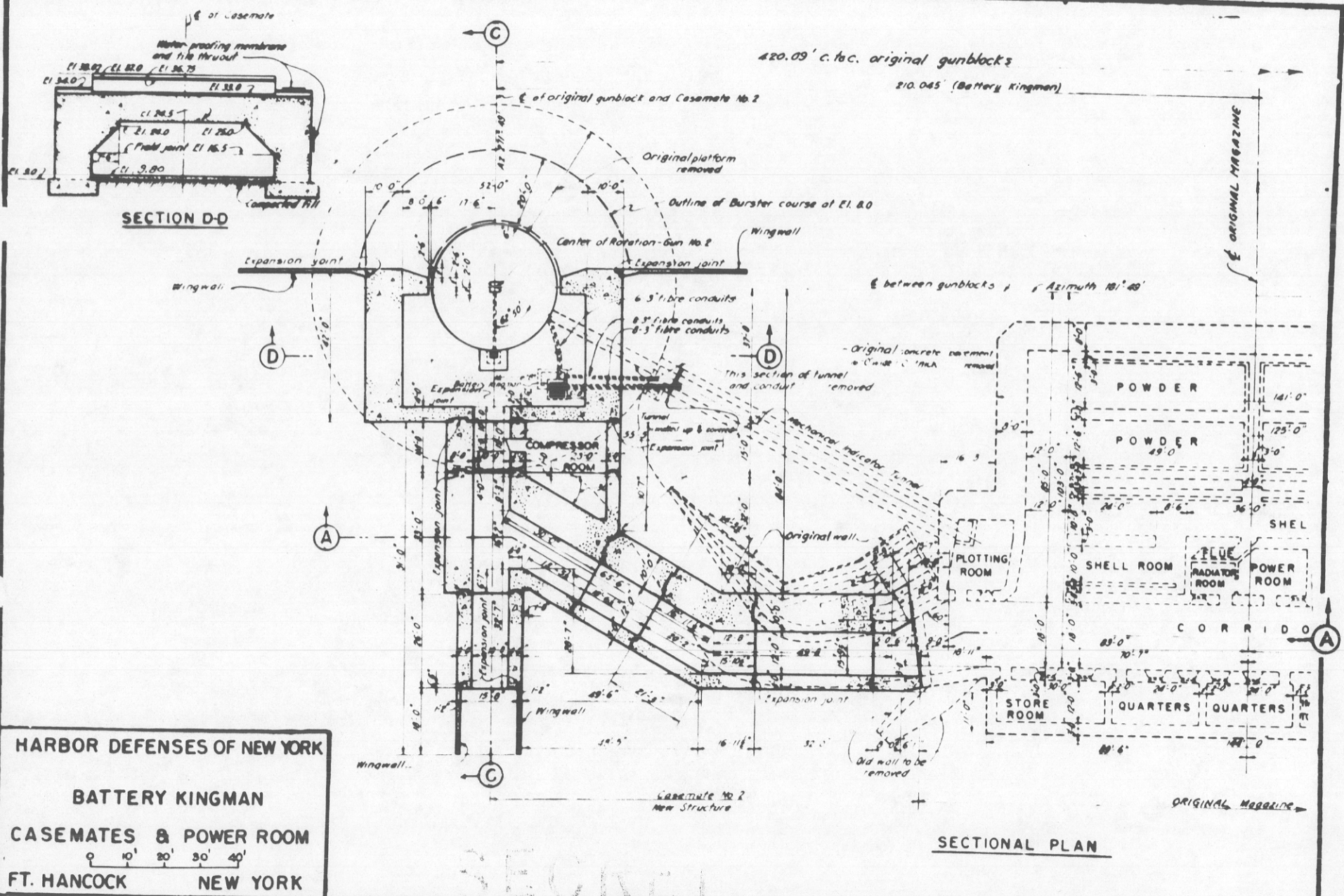
HARBOR DEFENSES OF NEW YORK

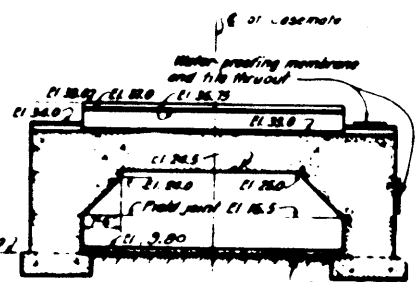
BATTERY KINGMAN

CASEMATES AND POWER ROOM

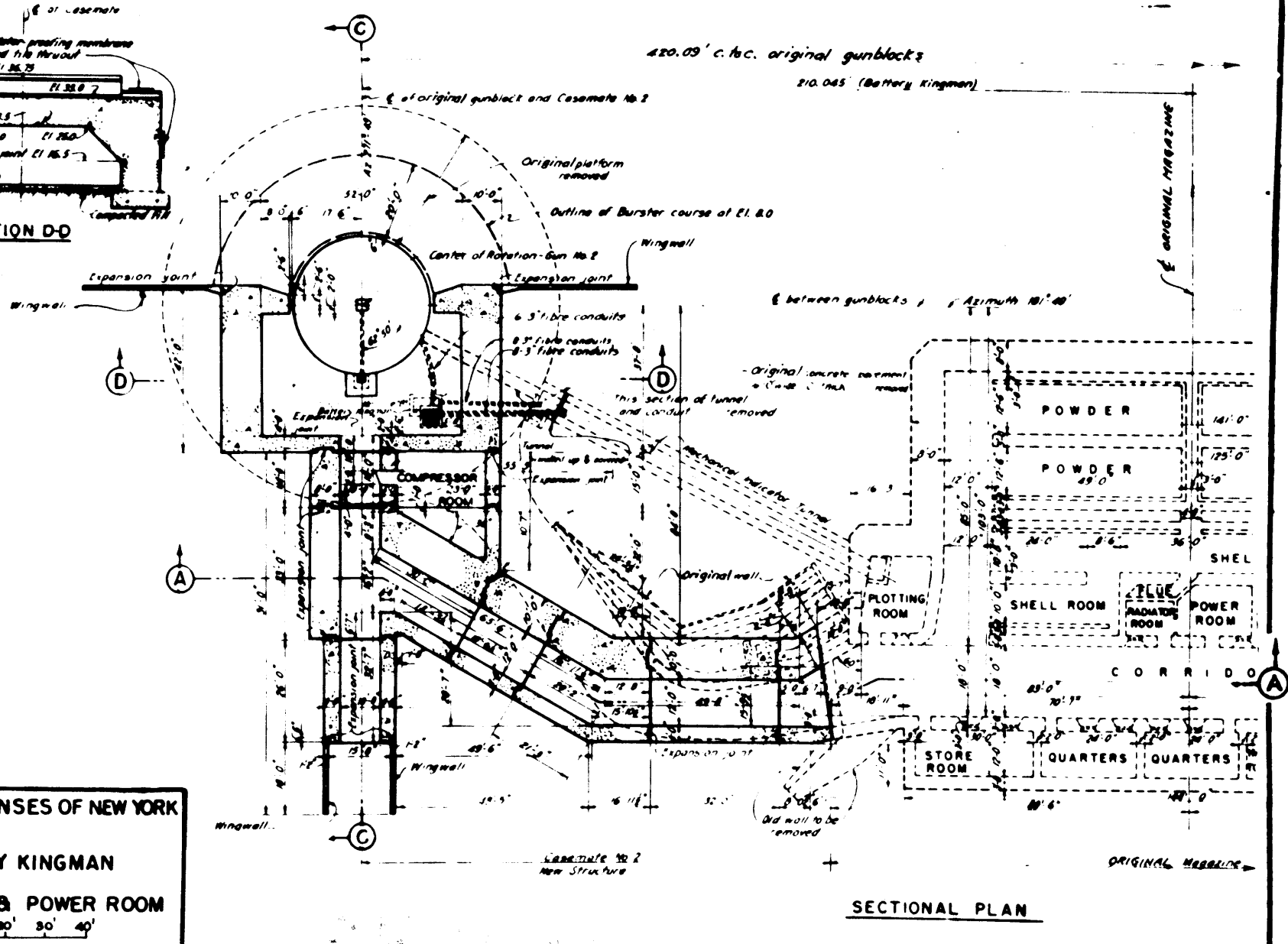
FT. HANCOCK

NEW JERSEY





SECTION D-D



HARBOR DEFENSES OF NEW YORK

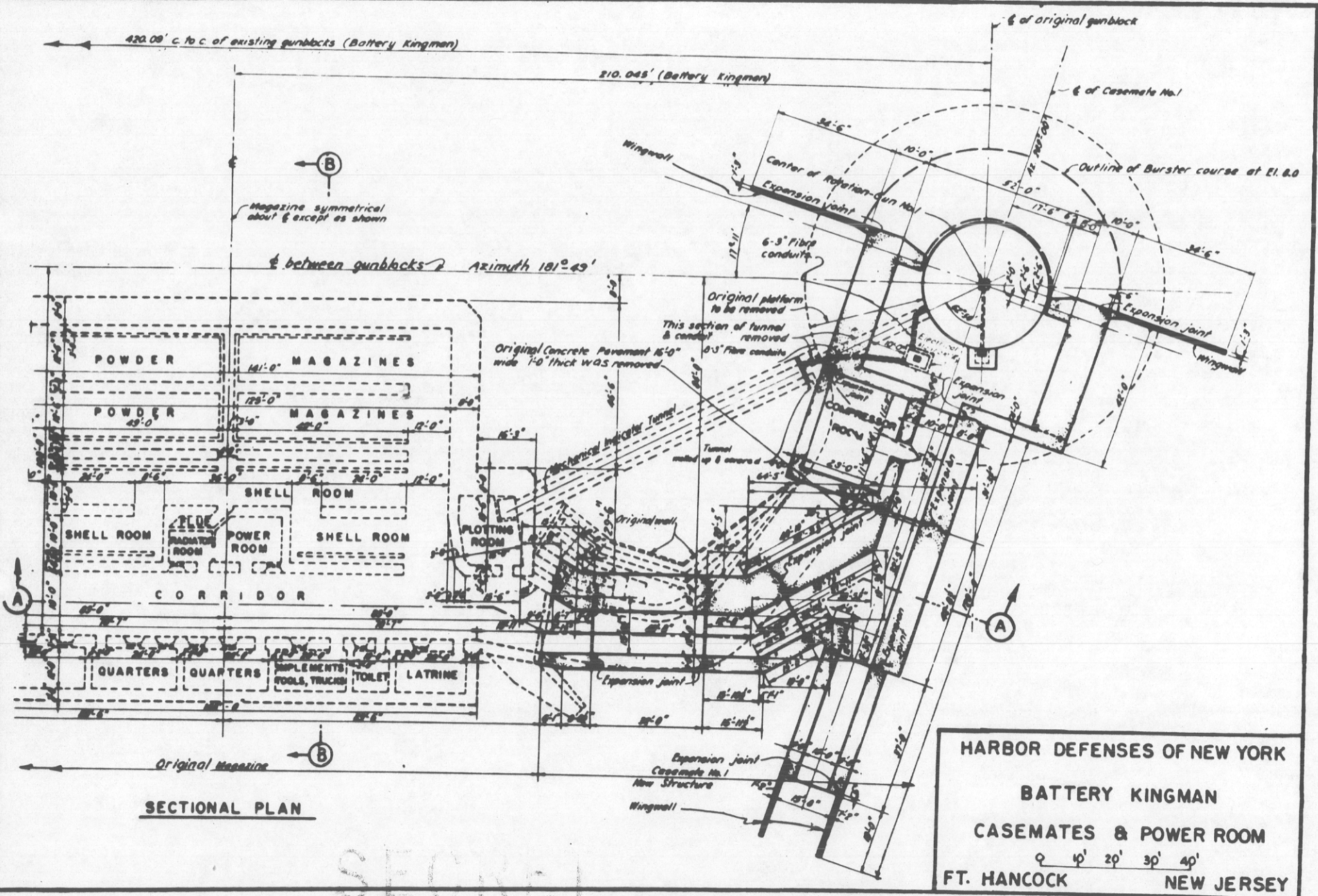
BATTERY KINGMAN

CASEMATES & POWER ROOM

0 10' 20' 30' 40'

FT. HANCOCK NEW YORK

SECTIONAL PLAN



SECTIONAL PLAN

HARBOR DEFENSES OF NEW YORK

BATTERY KINGMAN

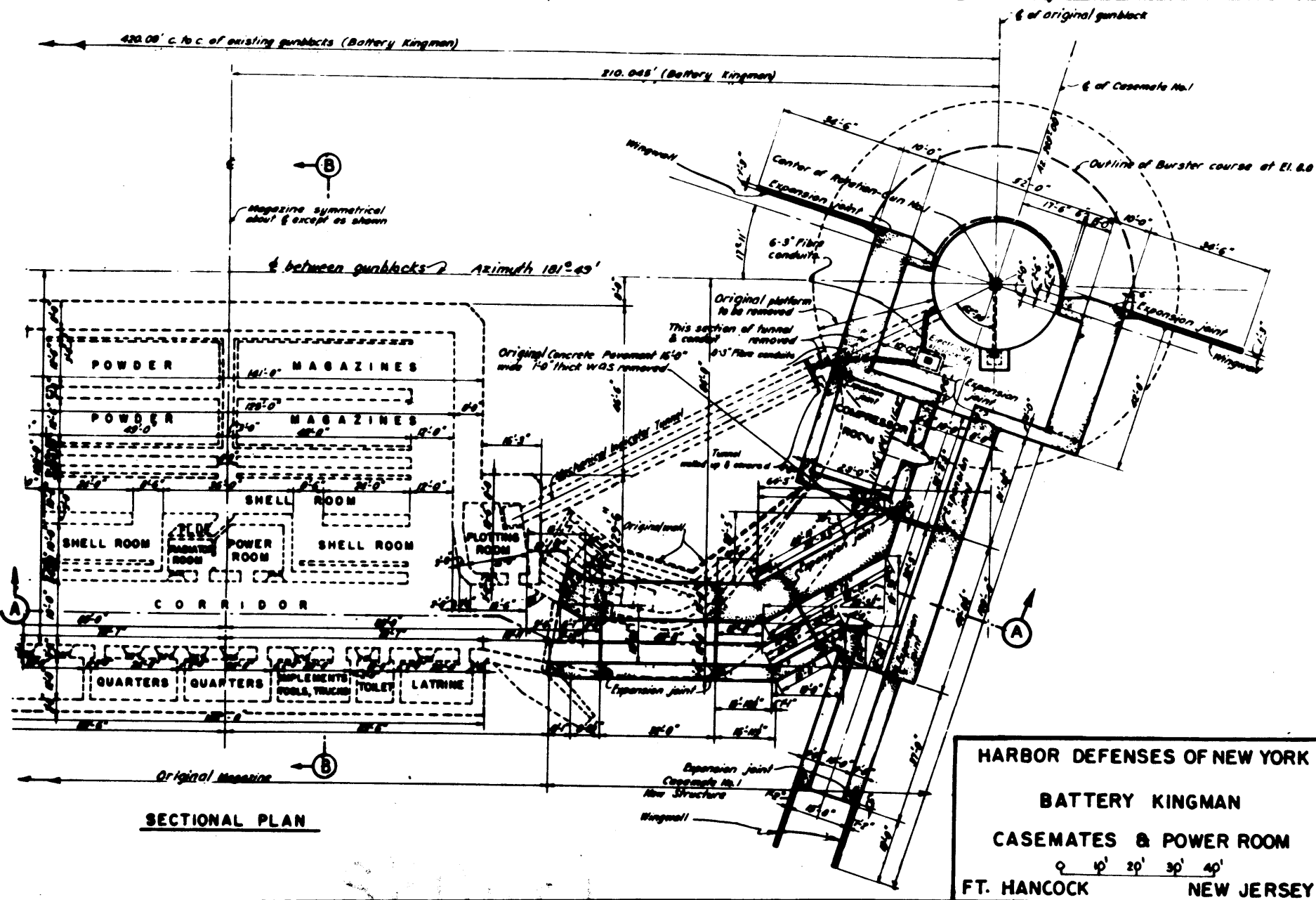
CASEMATES & POWER ROOM

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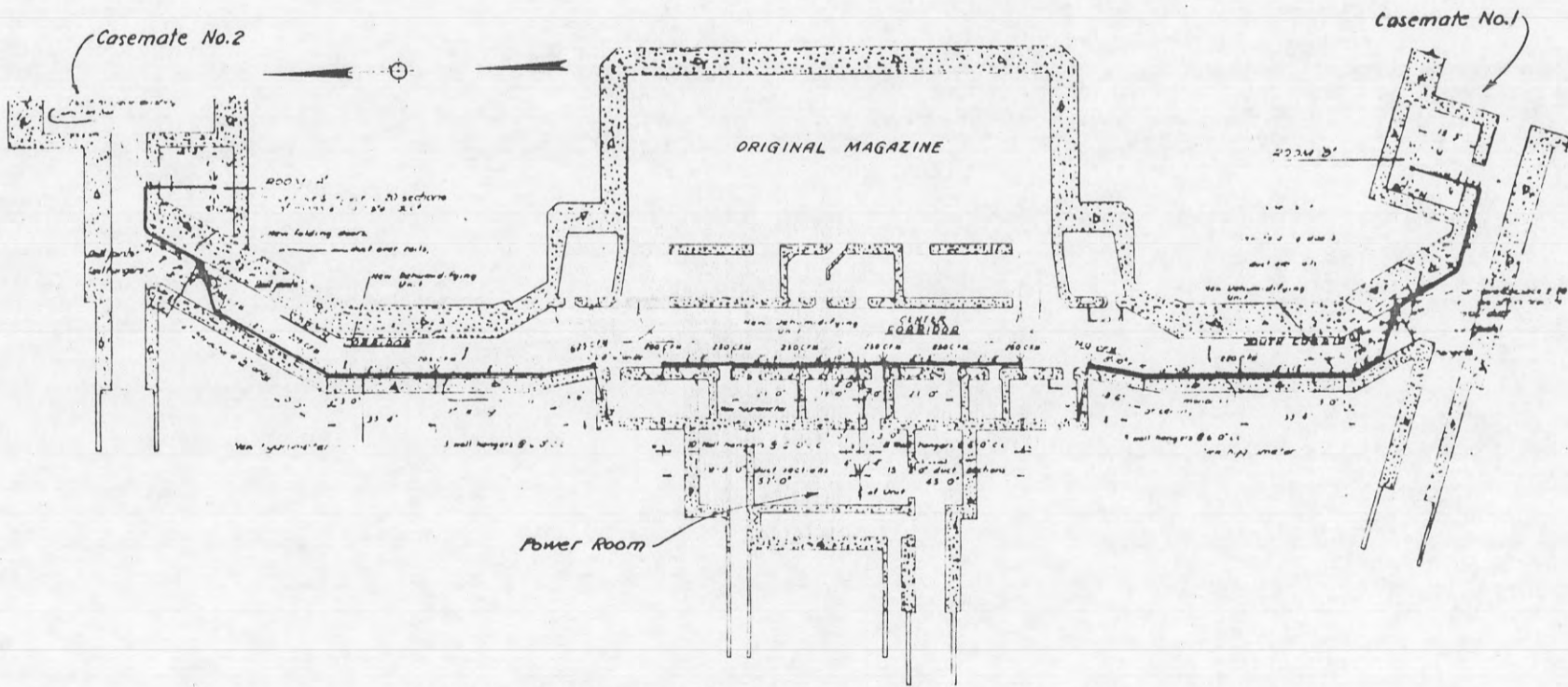
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SECRET



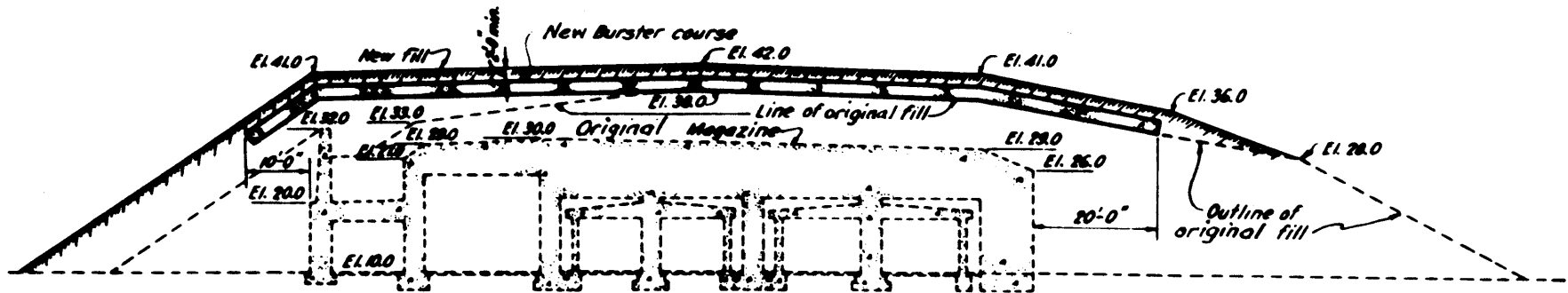
HARBOR DEFENSES OF NEW YORK
BATTERY KINGMAN
CASEMATES & POWER ROOM
4' 2' 3' 4'
FT. HANCOCK NEW JERSEY



PLAN

HARBOR DEFENSES OF NEW YORK
BATTERY KINGMAN
ADDITIONAL DEHUMIDIFYING SYSTEM
0 15' 30' 45'
FORT HANCOCK NEW JERSEY

SECRET



SECTION "B-B"

~~SECRET~~

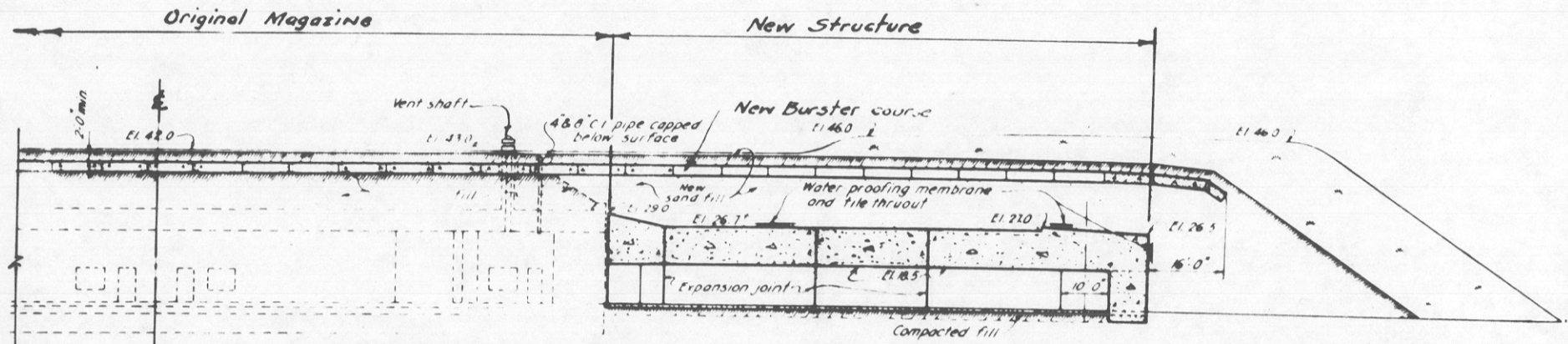
HARBOR DEFENSES OF NEW YORK

BATTERY KINGMAN

CASEMATES & POWER ROOM

FT. HANCOCK

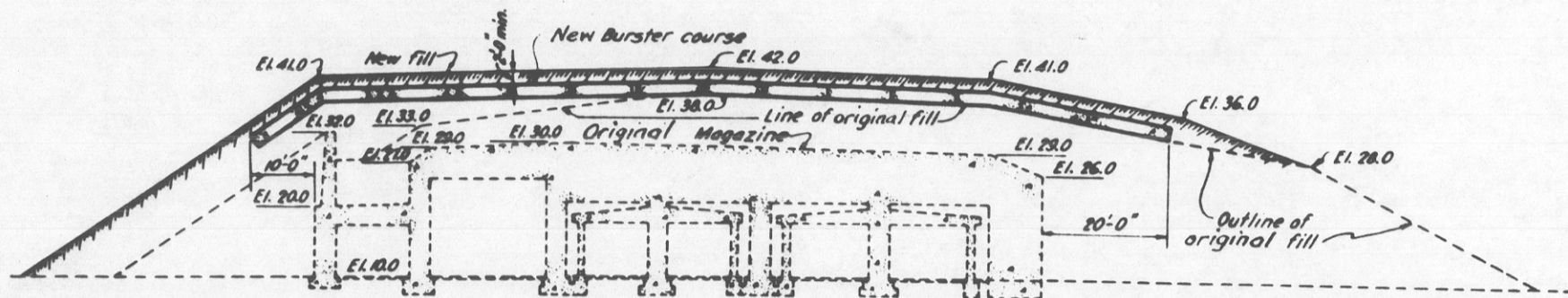
NEW JERSEY



SECTION A-A ON C OF CORRIDOR

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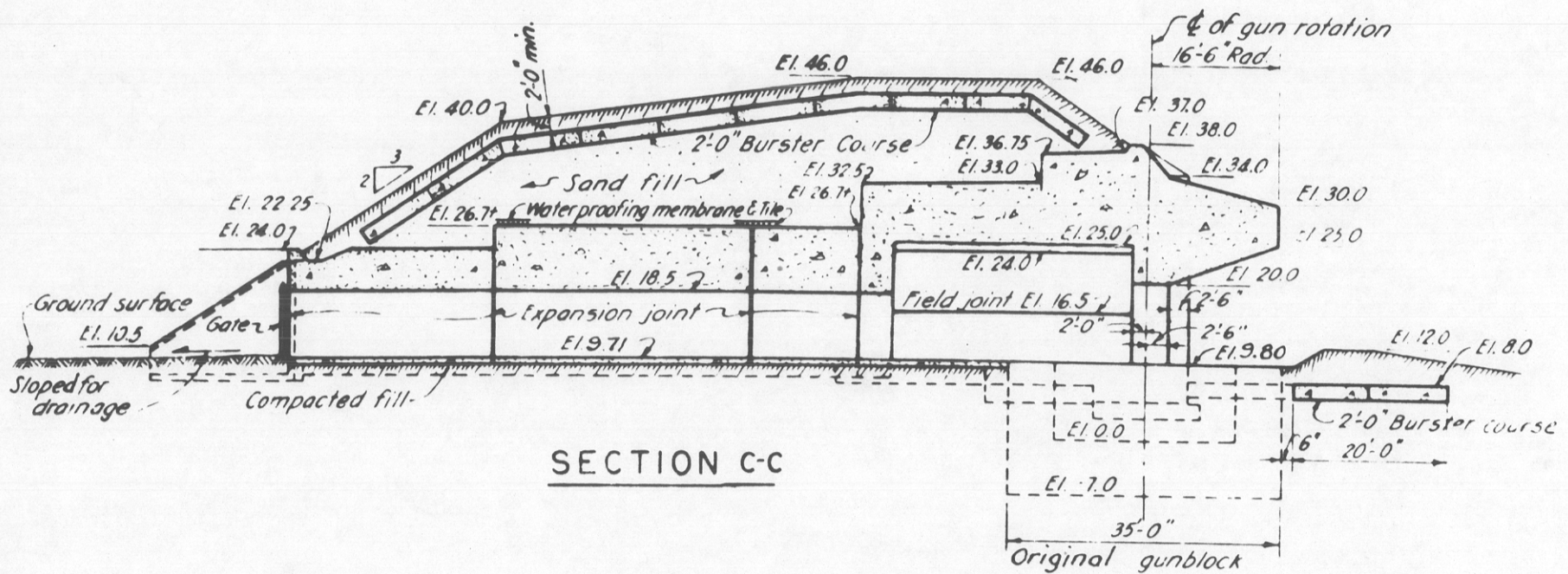
HARBOR DEFENSES OF NEW YORK
BATTERY KINGMAN
CASEMATES & POWER ROOM
FT. HANCOCK NEW JERSEY



SECTION "B-B"

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HARBOR DEFENSES OF NEW YORK
BATTERY KINGMAN
CASEMATES & POWER ROOM
FT. HANCOCK NEW JERSEY

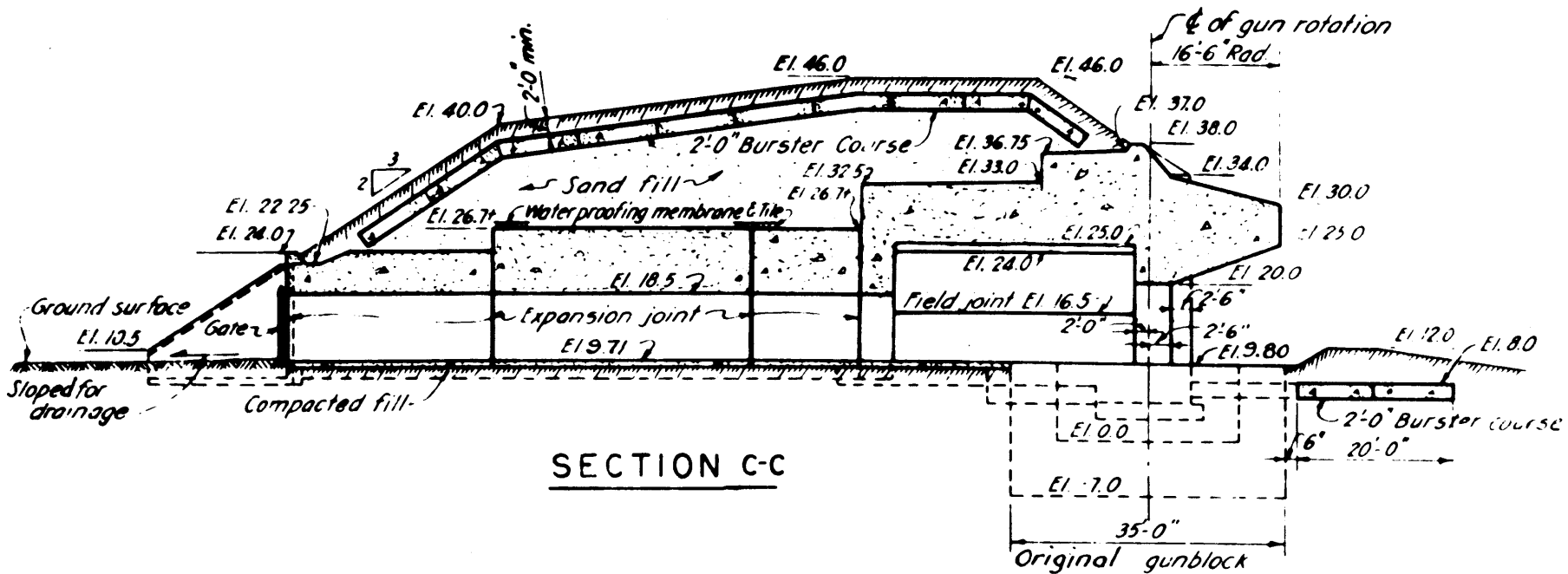


SECTION C-C

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 NCWN by *Q* date *6-11-70*

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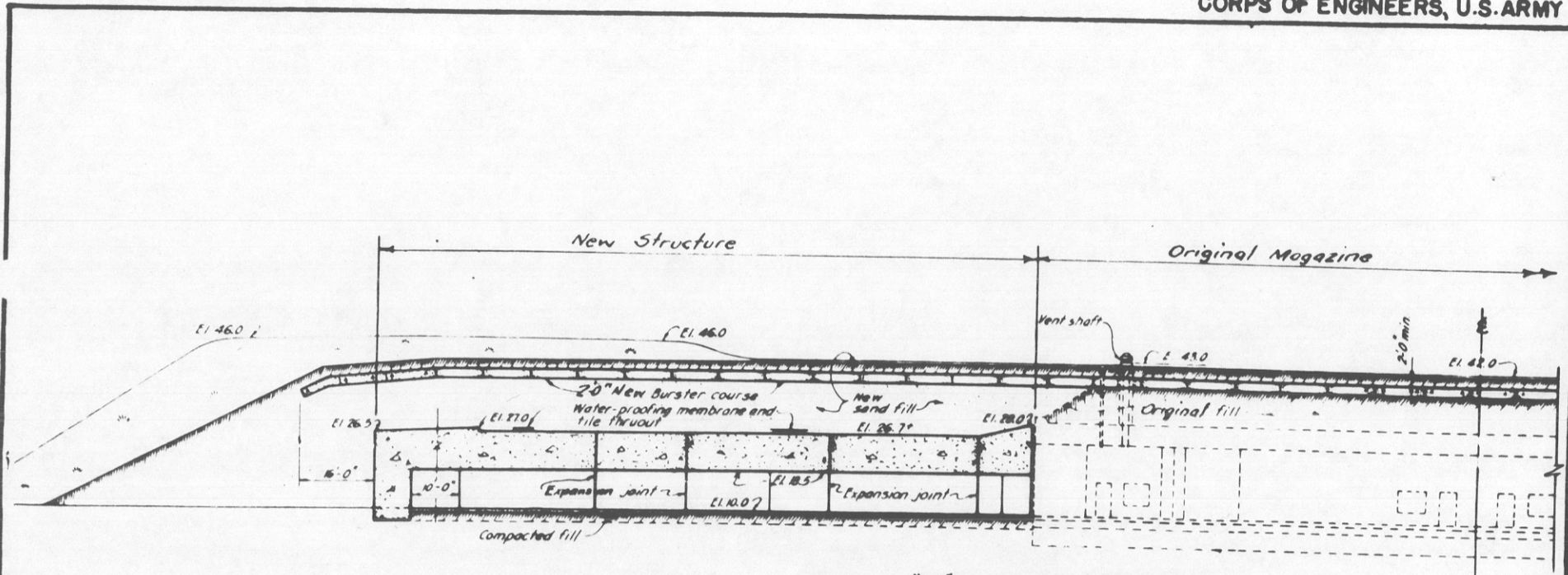
HARBOR DEFENSES OF NEW YORK
 BATTERY KINGMAN
 CASEMATES & POWER ROOM
 FT. HANCOCK NEW JERSEY



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HARBOR DEFENSES OF NEW YORK
 BATTERY KINGMAN
 CASEMATES & POWER ROOM
 FT. HANCOCK NEW JERSEY

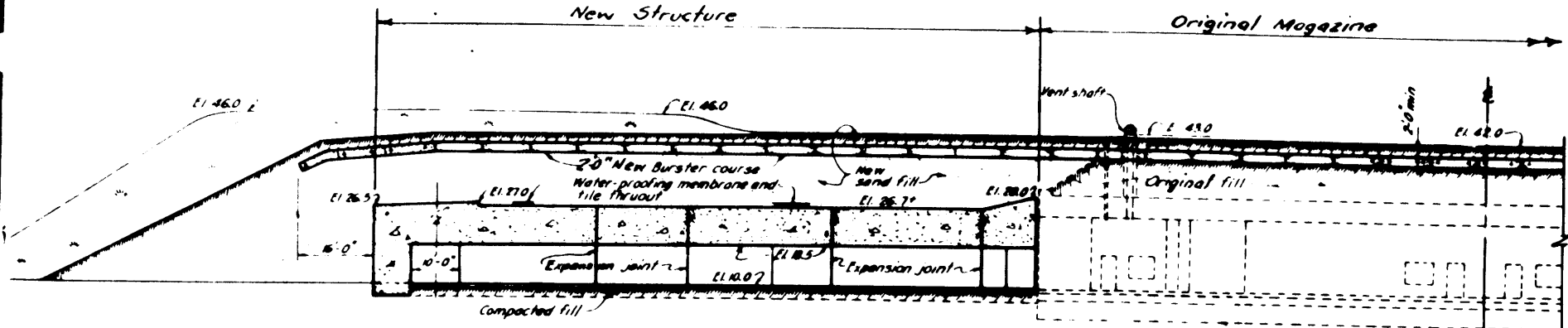


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NCWN by *A* Date *6-11-70*

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HARBOR DEFENSES OF NEW YORK
BATTERY KINGMAN
CASEMATES & POWER ROOM
FT. HANCOCK NEW JERSEY

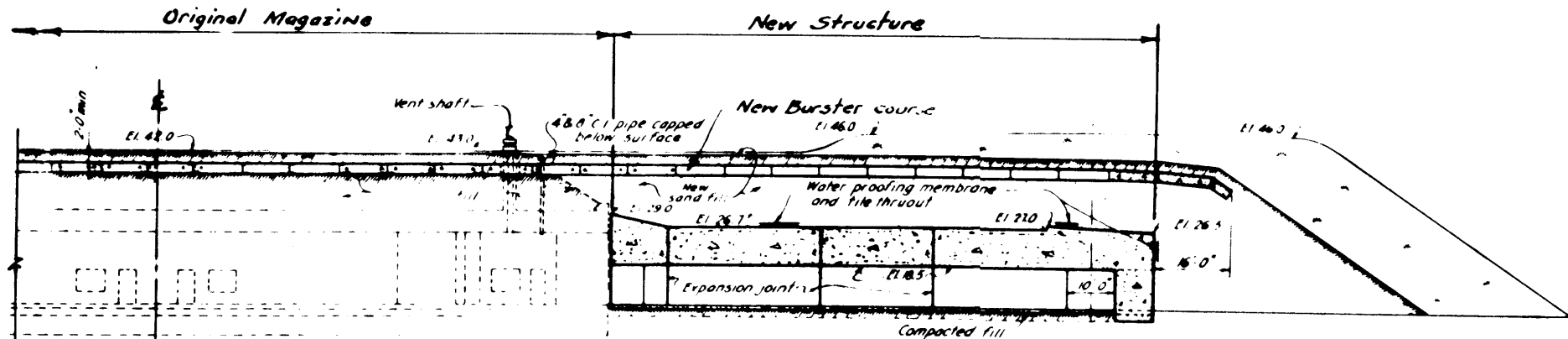


SECTION A-A ON C OF CORRIDOR

RECOMMENDED
 APPROVED BY: [Signature]
 DRAWN BY: [Signature] DATE: 6-11-70

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HARBOR DEFENSES OF NEW YORK
 BATTERY KINGMAN
 CASEMATES & POWER ROOM
 FT. HANCOCK NEW JERSEY



SECTION A-A ON C OF CORRIDOR

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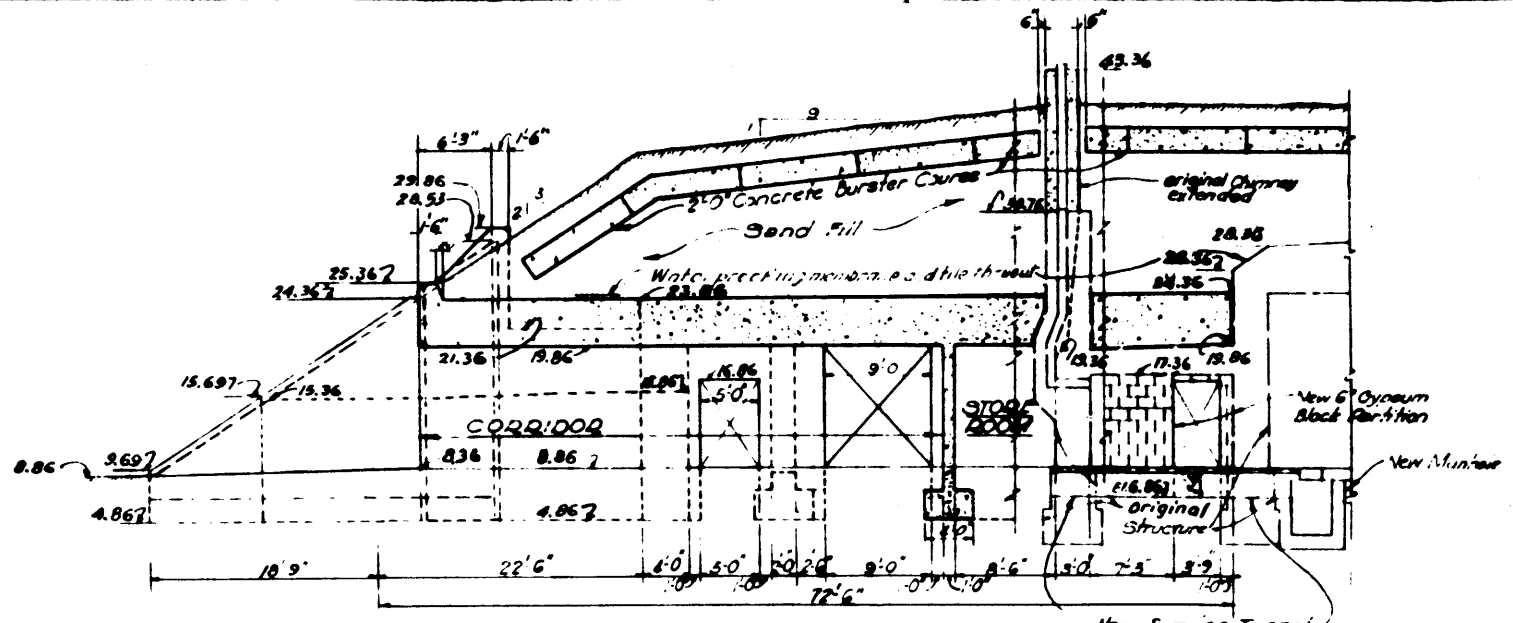
HARBOR DEFENSES OF NEW YORK

BATTERY KINGMAN

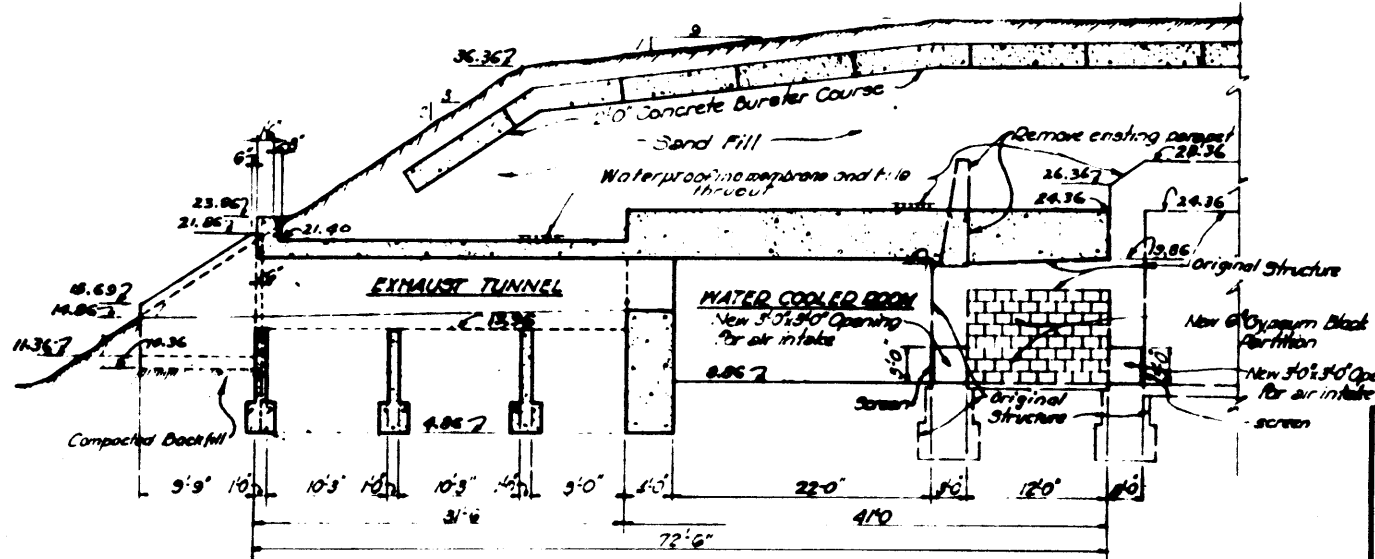
CASEMATES & POWER ROOM

FT. HANCOCK

NEW JERSEY



SECTION E-E

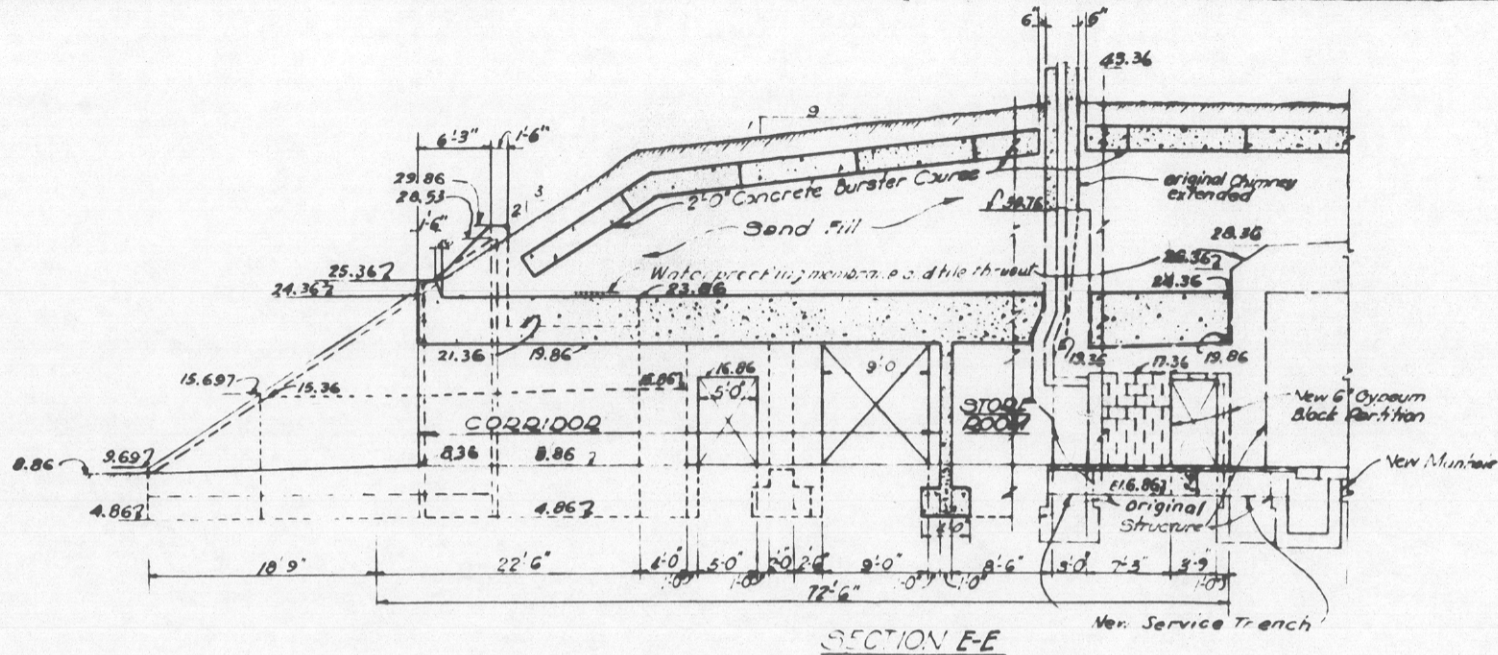


SECTION F-F

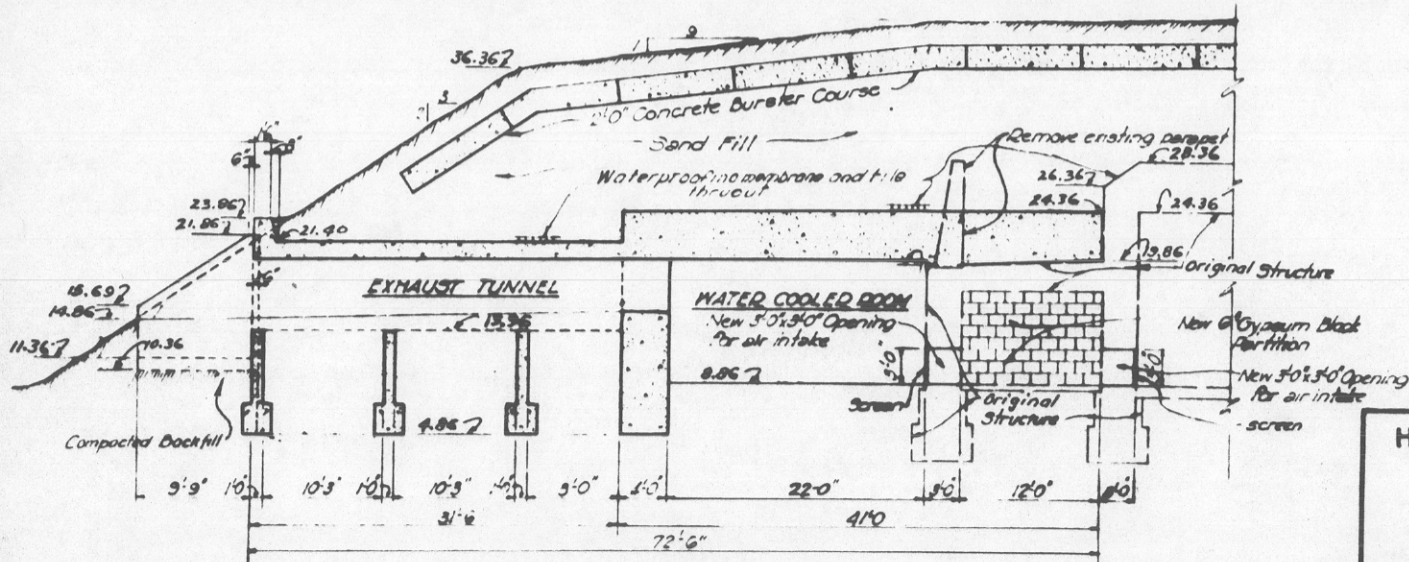
HARBOR DEFENSES OF NEW YORK
 BATTERY KINGMAN
 POWER ROOM

FT. HANCOCK NEW JERSEY

SECRET



SECTION E-E



SECTION F-F

HARBOR DEFENSES OF NEW YORK

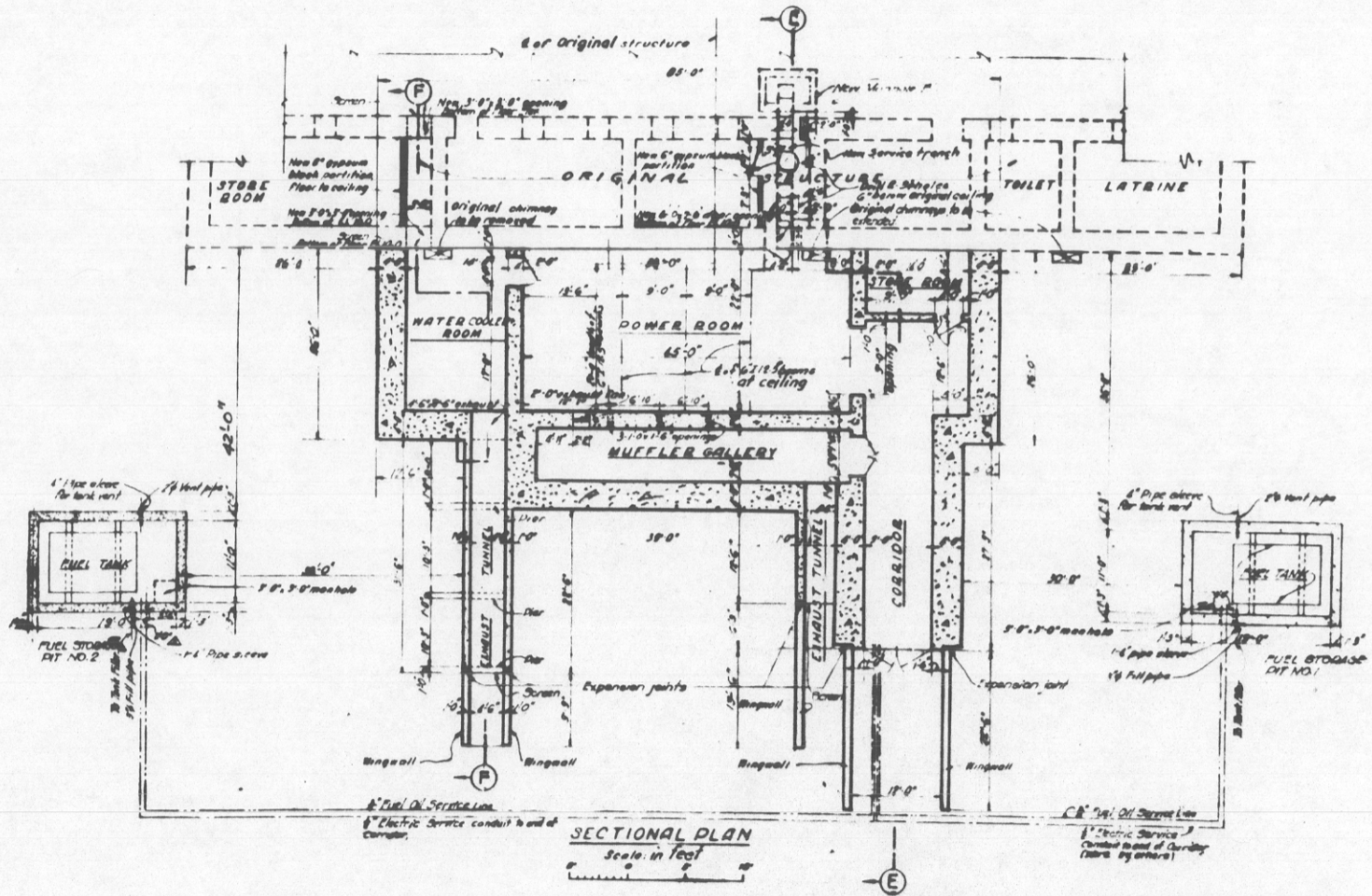
BATTERY KINGMAN

POWER ROOM

FT. HANCOCK

NEW JERSEY

SECRET

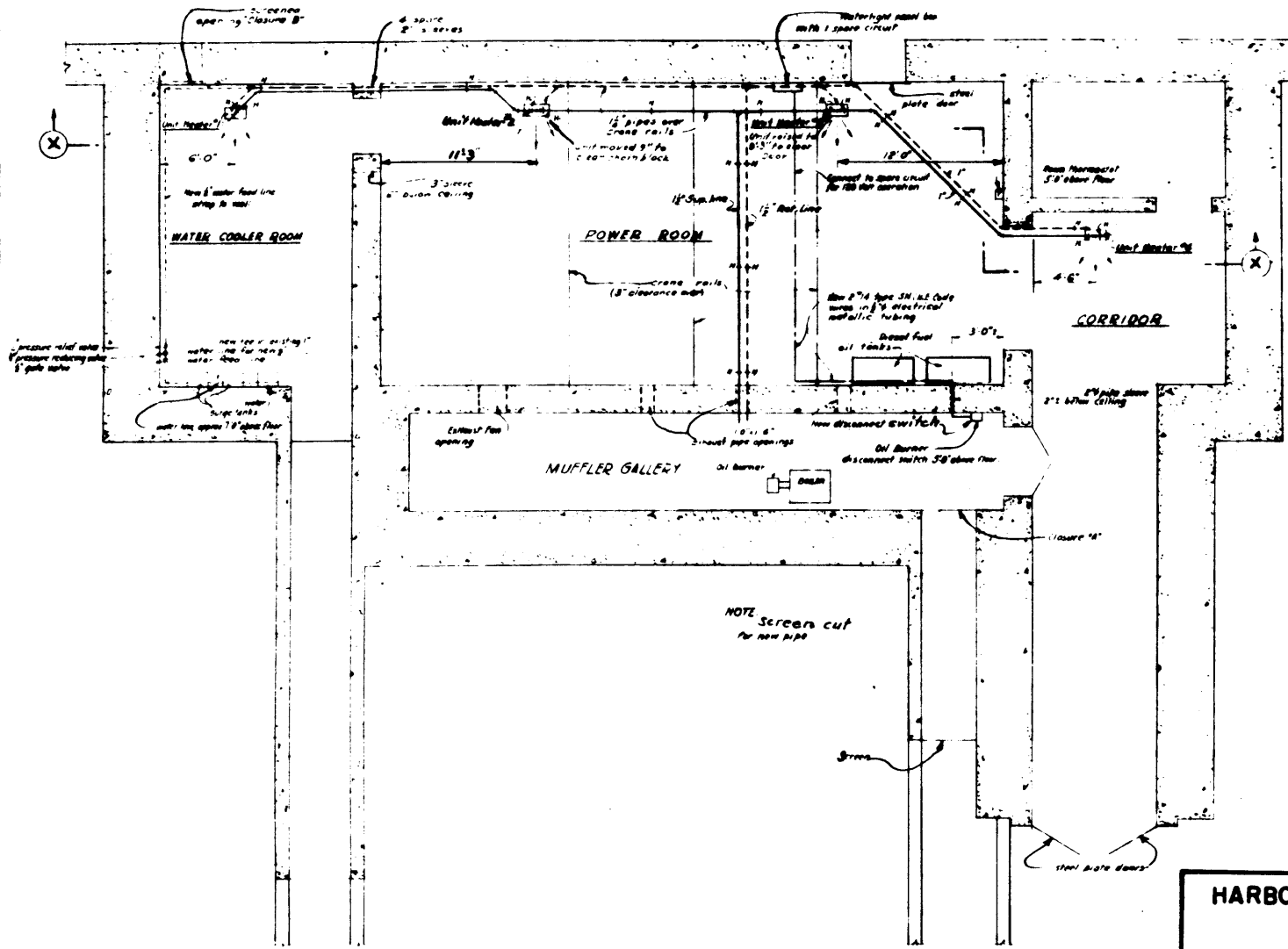


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HARBOR DEFENSES OF NEW YORK

BATTERY KINGMAN
POWER ROOM

FT. HANCOCK NEW JERSEY



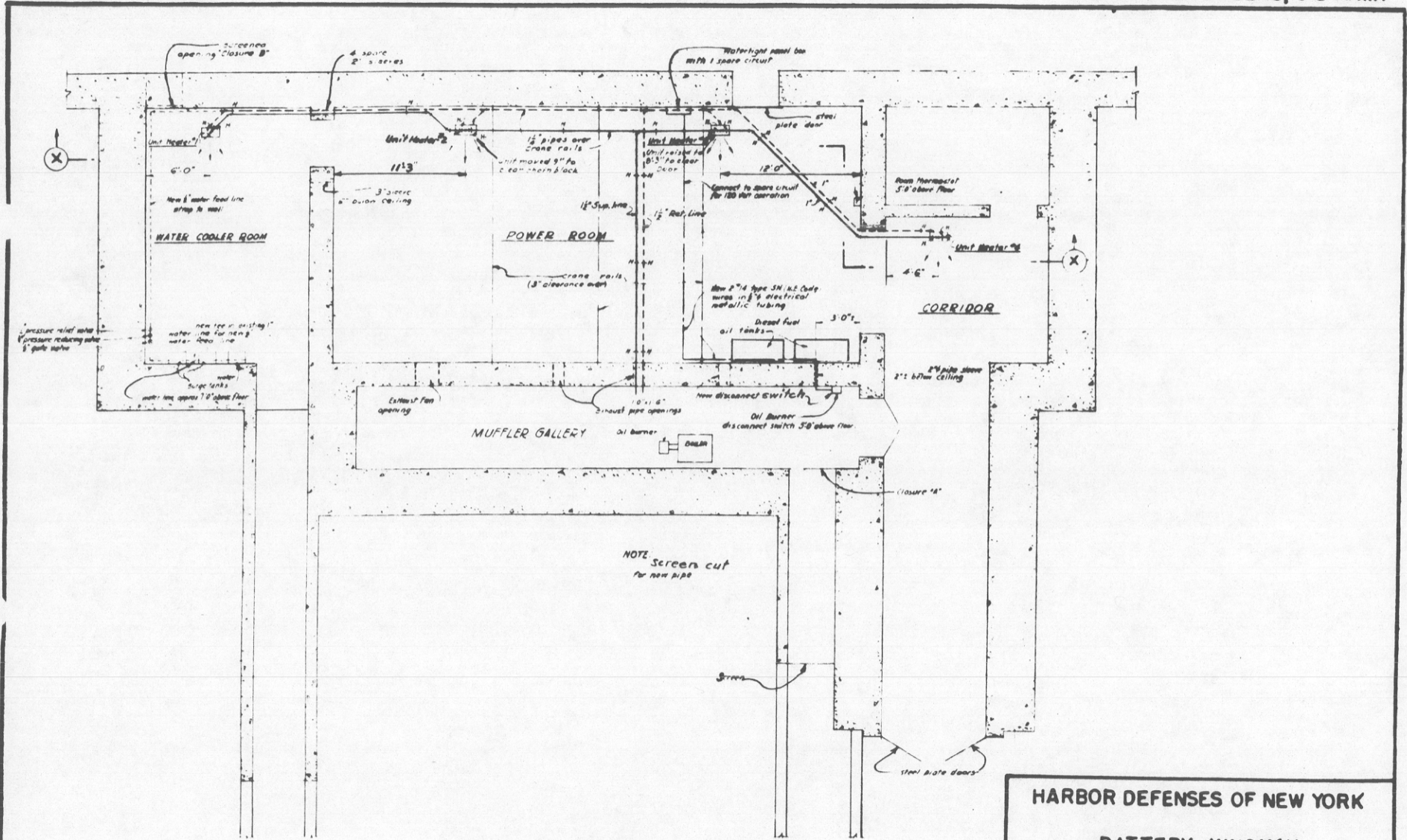
NOTE screen cut for new pipe

HARBOR DEFENSES OF NEW YORK
BATTERY KINGMAN
POWER ROOM HEATING SYSTEM
 0 6' 12' 18' 24'
FORT HANCOCK NEW JERSEY

SECRET

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



NOTE
Screen cut
for new pipe

HARBOR DEFENSES OF NEW YORK
BATTERY KINGMAN
POWER ROOM HEATING SYSTEM
9' 6' 12' 18' 24'
FORT HANCOCK NEW JERSEY

SECRET