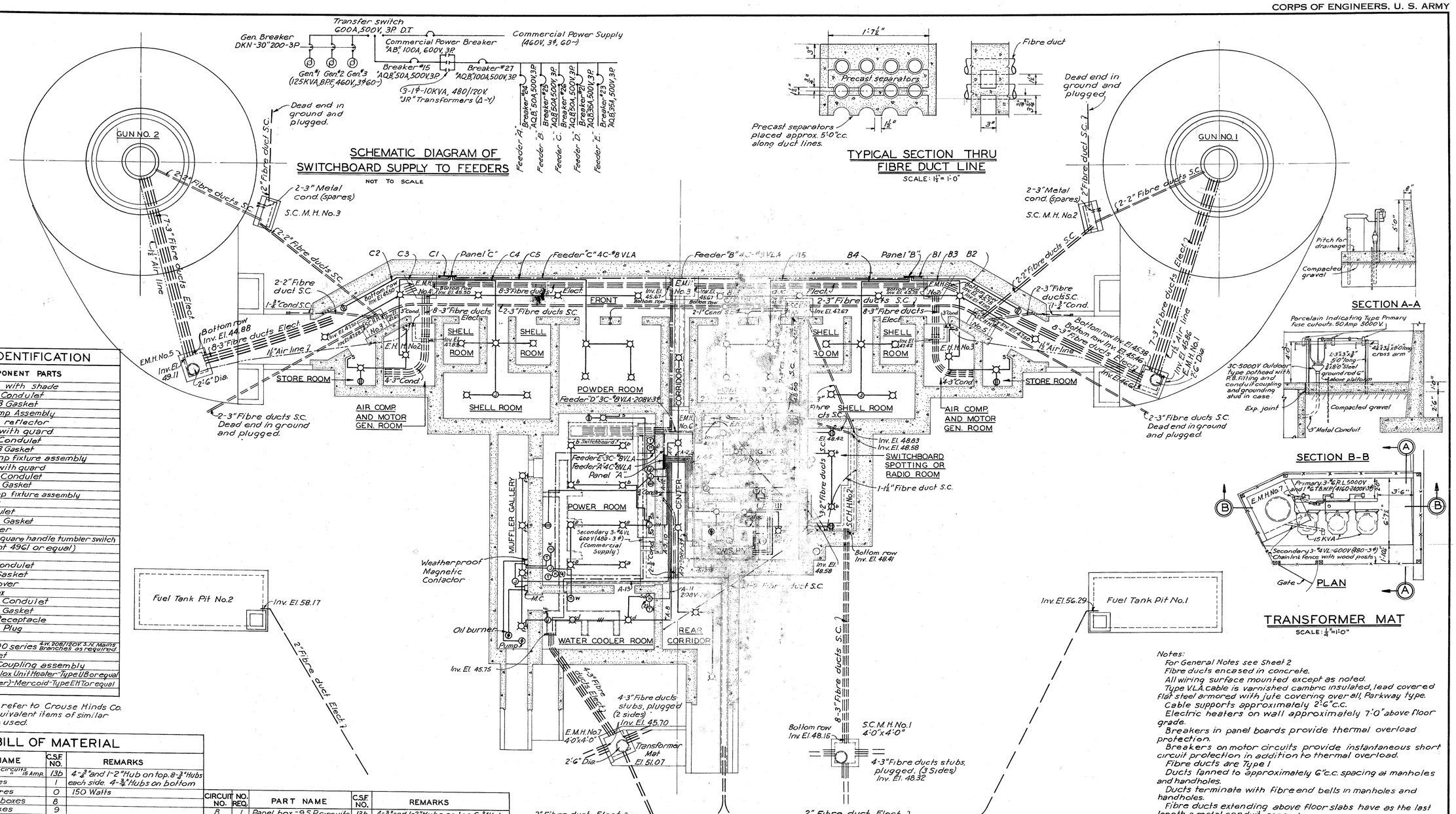

C.S.F. IDENTIFICATION

C.S.F. NO.	COMPONENT PARTS
0	Ceiling fixture with shade
	1-G.R.F.X. 229 Condulet
	1-G.A.S.K. 643 Gasket
	1-A.R.B. 93 Lamp Assembly
	1-SH-28 Dome reflector
1	Ceiling fixture with guard
	1-G.R.F.X. 229 Condulet
	1-G.A.S.K. 643 Gasket
	1-A.R.B. 91 Lamp fixture assembly
3	Wall fixture with guard
	1-G.R.F.X. 229 Condulet
	1-G.A.S.K. 643 Gasket
	1-A.R.B. 95 Lamp fixture assembly
8	Snap switch box
	1-F.S. 2 Condulet
	1-G.A.S.K. 425 Gasket
	1 D.S. 181 Cover
	1-Switch (Std. square handle tumbler switch 10A. S.P. Bryant 4961 or equal)
9	Junction box
	1-G.R.F.X. 229 Condulet
	1-G.A.S.K. 643 Gasket
	1-G.R.F. 10 Cover
10	Plugging-in box
	1-G.R.F.X. 229 Condulet
	1-G.A.S.K. 643 Gasket
	1-A.R.B. 327 Receptacle
	1-B.P. 8522 Plug
13b	Panel box
	1 Type D.V.P. 500 series 4W. 208/120V. S.N. Mains Branches as required.
16	Coupling outlet
	1-C.G.B. 295 Coupling assembly
	Unit Heater-Chromalox Unit Heater-Type U8 or equal
	Thermostat (Unit Heater)-Mercoid-Type EH T or equal

All catalog numbers refer to Crouse Hinds Co. Catalog No. 2500. Equivalent items of similar manufacture may be used.

BILL OF MATERIAL

CIRCUIT NO.	NO. REQ.	PART NAME	C.S.F. NO.	REMARKS
A	1	Panel box 12 S.P. circuits, 6 3 P. " 15 Amp.	13b	4-$\frac{3}{4}$" and 1-2" Hub on top. 8-$\frac{3}{4}$" Hubs each side. 4-$\frac{3}{4}$" Hubs on bottom
1	5	Ceiling fixtures	1	
2,3	6	Ceiling fixtures	0	150 Watts
	2	Snap switch boxes	8	
	2	Junction boxes	9	
4,5	4	Plugging-in boxes	10	
	3	Junction boxes	9	
6	5	Ceiling fixtures	1	
	2	Snap switch boxes	8	
7	1	Junction box	9	C.W.S. Equipment 208V-3φ
8	2	Ceiling fixtures	1	
	4	Wall fixtures	3	
	2	Snap switch boxes	8	
	1	Junction box	9	
9,10	8	Ceiling fixtures	1	With Crouse Hinds Cat. No. SH27 reflector or equal
	2	Snap switch boxes	8	
	1	Junction box	9	
11				Unit Heater 208V-1φ
12	1	Ceiling fixture	1	
	1	Snap switch box	8	
	2	Junction boxes	9	
	3	Plugging-in boxes	10	
13	2	Junction boxes	9	Hot water heating system
14				Spare
15				Dehumidifying system 208V-3φ
16,17,18				Spares 208V-3φ

CIRCUIT NO.	NO. REQ.	PART NAME	C.S.F. NO.	REMARKS
B	1	Panel box-9 S.P. circuits	13b	4-$\frac{3}{4}$" and 1-2" Hubs on top. 6-$\frac{3}{4}$" Hubs each side. 1-2" Hub on bottom
1		2" Cond. Panel to manhole		Gun platform circuit
2	1	Plugging-in box	10	
3	7	Ceiling fixtures	1	
	2	Snap switch boxes	8	
	1	Plugging-in box	10	
4	5	Ceiling fixtures	1	
	1	Junction box	9	
5	4	Ceiling fixtures	1	
C-9				Spares
C	1	Panel box-9 S.P. circuits	13b	4-$\frac{3}{4}$" and 1-2" Hubs on top. 6-$\frac{3}{4}$" Hubs each side. 1-2" Hub on bottom.
1		2" Cond. Panel to manhole		Gun platform circuit
2	1	Plugging-in box	10	
3	7	Ceiling fixtures	1	
	2	Snap switch boxes	8	
	1	Plugging-in box	10	
4	5	Ceiling fixtures	1	
	1	Junction box	9	
5	4	Ceiling fixtures	1	
C-9				Spares
Feeder D				Heater circuit 208V-3φ
Feeder E				Unit Heaters 208V-3φ

LEGEND

- Circuit exposed (2c-#12 V.L.A. unless otherwise noted)
- Feeder exposed
- Feeder in trench
- Ceiling outlet
- Wall outlet
- Plugging-in box
- Junction box
- Heater outlet
- (2) (size in KW) Electric Unit Heater (Blower type)
- W Unit Heater (water)
- T Thermostat
- Motor
- S Switch
- Panel
- S.C. Signal Corps
- M.H. Manhole
- H.H. Handhole
- Fibre duct and conduits
- Air line
- 4 11/16" x 4 11/16" x 2 1/8" Junction box Universal No. 72171 ± 4'-0" above floor.
- Air Conditioning Unit and Controls
- H Humidistat.

Notes:
For General Notes see Sheet 2
Fibre ducts encased in concrete.
All wiring surface mounted except as noted.
Type V.L.A. cable is varnished cambric insulated, lead covered flat steel armored with jute covering overall, Parkway type.
Cable supports approximately 2'-6" c.c.
Electric heaters on wall approximately 7'-0" above floor grade.
Breakers in panel boards provide thermal overload protection.
Breakers on motor circuits provide instantaneous short circuit protection in addition to thermal overload.
Fibre ducts are Type I
Ducts fanned to approximately 6" c.c. spacing at manholes and handholes.
Ducts terminate with fibre end bells in manholes and handholes.
Fibre ducts extending above floor slabs have as the last length a metal conduit, capped.
The hot water heating system thermostat controls both the unit heaters and circulating pump simultaneously.

RESTRICTED RECORD DRAWING

NO.	CHARACTER	DATE	BY

REVISIONS

HARBOR DEFENSES OF BOSTON
BATTERY NO. 207

ELECTRICAL AND CONDUIT LAYOUTS

IN 6 SHEETS — SHEET NO 5 — SCALE: 1/8" = 1'-0"

U. S. ENGINEER OFFICE, BOSTON, MASS. 22 JULY 1944

APPROVAL RECOMMENDED: John E. Allen, CHIEF ENGINEERING DIVISION

SUBMITTED: CHIEF DESIGN SECTION, SR. ENGINEER

APPROVED: LT. COLONEL, CORPS OF ENGINEERS, DISTRICT ENGINEER

ENGINEER

DES. BY L.E.C. DR. BY L.H.M. TR. BY L.H.M. CH. BY L.E.C.

FILE NO. 207/5

BOSTON BLUE PRINT CO.