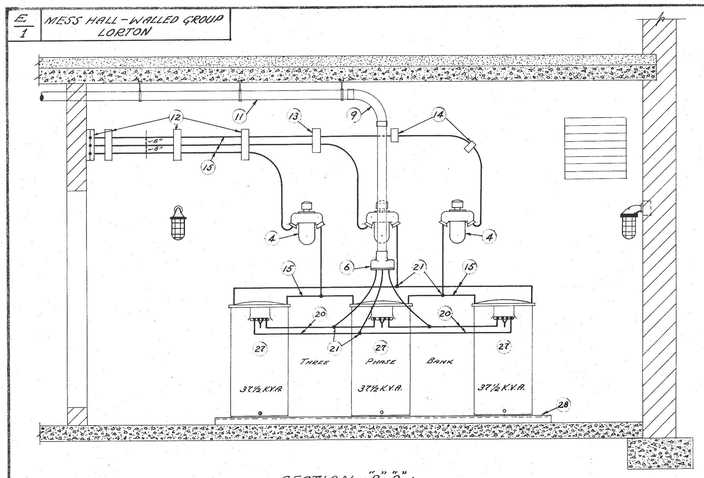
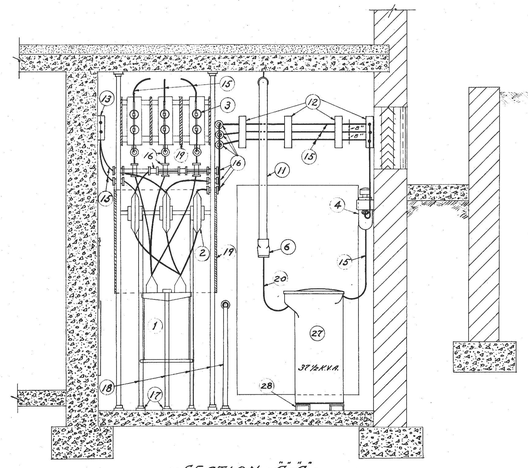
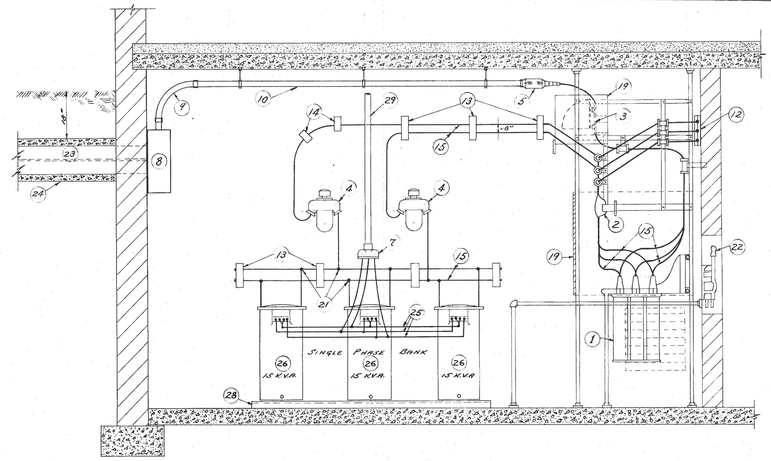
E 1 | MESS HALL - WALLED GROUP LORTON



· SECTION - "B"-"B" ·
· Scale - ½" = 1'-0" ·

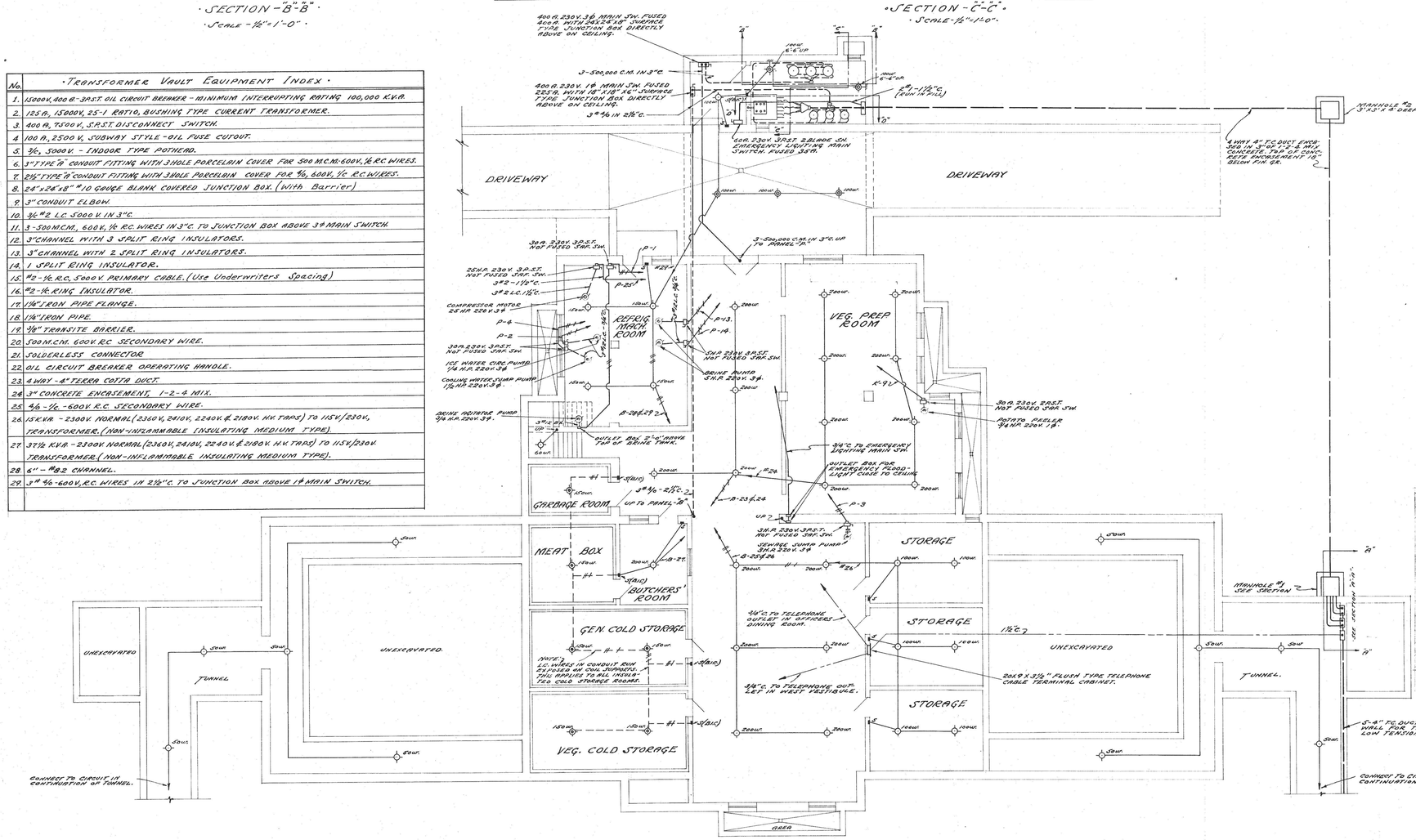


· SECTION - "C"-"C" ·
· Scale - ½" = 1'-0" ·

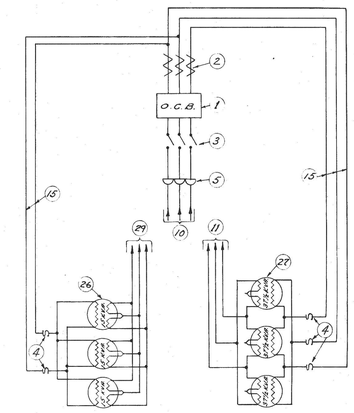


· SECTION - "D"-"D" ·
· Scale - ½" = 1'-0" ·

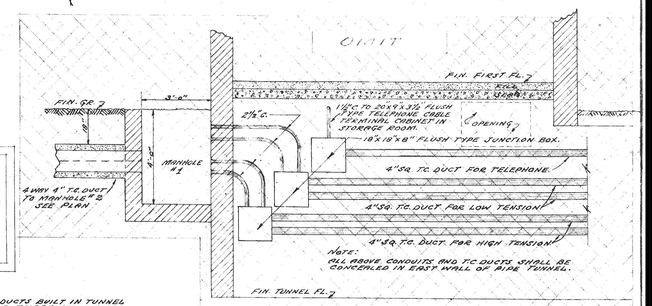
No.	· Transformer Vault Equipment Index ·
1.	15000 V, 400 A - 3 P.S.T. OIL CIRCUIT BREAKER - MINIMUM INTERRUPTING RATING 100,000 K.V.A.
2.	125 A, 15000 V, 25-1 RATIO, BUSHING TYPE CURRENT TRANSFORMER.
3.	400 A, 7500 V, S.P.S.T. DISCONNECT SWITCH.
4.	100 A, 2500 V, SUBWAY STYLE - OIL FUSE CUTOUT.
5.	3/0, 5000 V. - INDOOR TYPE POTHEAD.
6.	3" TYPE "A" CONDUIT FITTING WITH 3 HOLE PORCELAIN COVER FOR 500 M.C.M. 600 V., 1/0 R.C. WIRES.
7.	2½" TYPE "A" CONDUIT FITTING WITH 3 HOLE PORCELAIN COVER FOR 4/0, 600 V., 1/0 R.C. WIRES.
8.	24" x 24" x 8" #10 GAUGE BLANK COVERED JUNCTION BOX. (With Barrier)
9.	3" CONDUIT ELBOW.
10.	3/0 #2 L.C. 5000 V. IN 3" C.
11.	3 - 500 M.C.M., 600 V., 1/0 R.C. WIRES IN 3" C. TO JUNCTION BOX ABOVE 3 φ MAIN SWITCH.
12.	3" CHANNEL WITH 3 SPLIT RING INSULATORS.
13.	3" CHANNEL WITH 2 SPLIT RING INSULATORS.
14.	1 SPLIT RING INSULATOR.
15.	#2 - 1/0 R.C. 5000 V. PRIMARY CABLE. (Use Underwriters Spacing)
16.	#2 - 1/0 RING INSULATOR.
17.	1¼" IRON PIPE FLANGE.
18.	1¼" IRON PIPE.
19.	3/16" TRANSITE BARRIER.
20.	500 M.C.M. 600 V. R.C. SECONDARY WIRE.
21.	SOLDERLESS CONNECTOR
22.	OIL CIRCUIT BREAKER OPERATING HANDLE.
23.	4 WAY - 4" TERRA COTTA DUCT
24.	3" CONCRETE ENCASEMENT, 1-2-4 MIX.
25.	4/0 - 1/0 - 600 V. R.C. SECONDARY WIRE.
26.	15 K.V.A. - 2300 V. NORMAL (2360 V, 2410 V, 2240 V. & 2180 V. H.V. TAPS) TO 115 V./230 V. TRANSFORMER. (NON-INFLAMMABLE INSULATING MEDIUM TYPE).
27.	37½ K.V.A. - 2300 V. NORMAL (2360 V, 2410 V, 2240 V. & 2180 V. H.V. TAPS) TO 115 V./230 V. TRANSFORMER. (NON-INFLAMMABLE INSULATING MEDIUM TYPE).
28.	6" - #8.2 CHANNEL.
29.	3 # 4/0 - 600 V. R.C. WIRES IN 2½" C. TO JUNCTION BOX ABOVE 1 φ MAIN SWITCH.



· BASEMENT PLAN ·
· Scale - 1/8" = 1'-0" ·



· SCHEMATIC WIRING DIAGRAM OF TRANSFORMER VAULT ·
· No Scale ·



· SECTION "A"-"A" ·
· No Scale ·

APPROVED BY THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA SITTING AS A BOARD

SECRETARY.

REVISIONS	WORK RECORD	BUILDING · MESS HALL - WALLED GROUP ·	FILE NO.
	DRAWN BY BATT PAE	LOCATION D.C. PENAL INSTITUTIONS - LORTON, VA.	
	TRACED BY RIKE	OFFICE OF MUNICIPAL ARCHITECT - WASHINGTON, D. C.	DRWG. NO.
	CHECKED BY GAB	CHIEF OF ARCHITECTURAL DIVISION	DATE 7-17-36
	DATE 7-17-36	CHIEF OF STRUCTURAL DIVISION	DATE 7-17-36
	SHEET	CHIEF OF MECHANICAL DIVISION	DATE 7-17-36
		MUNICIPAL ARCHITECT	DATE 7-17-36

E 1