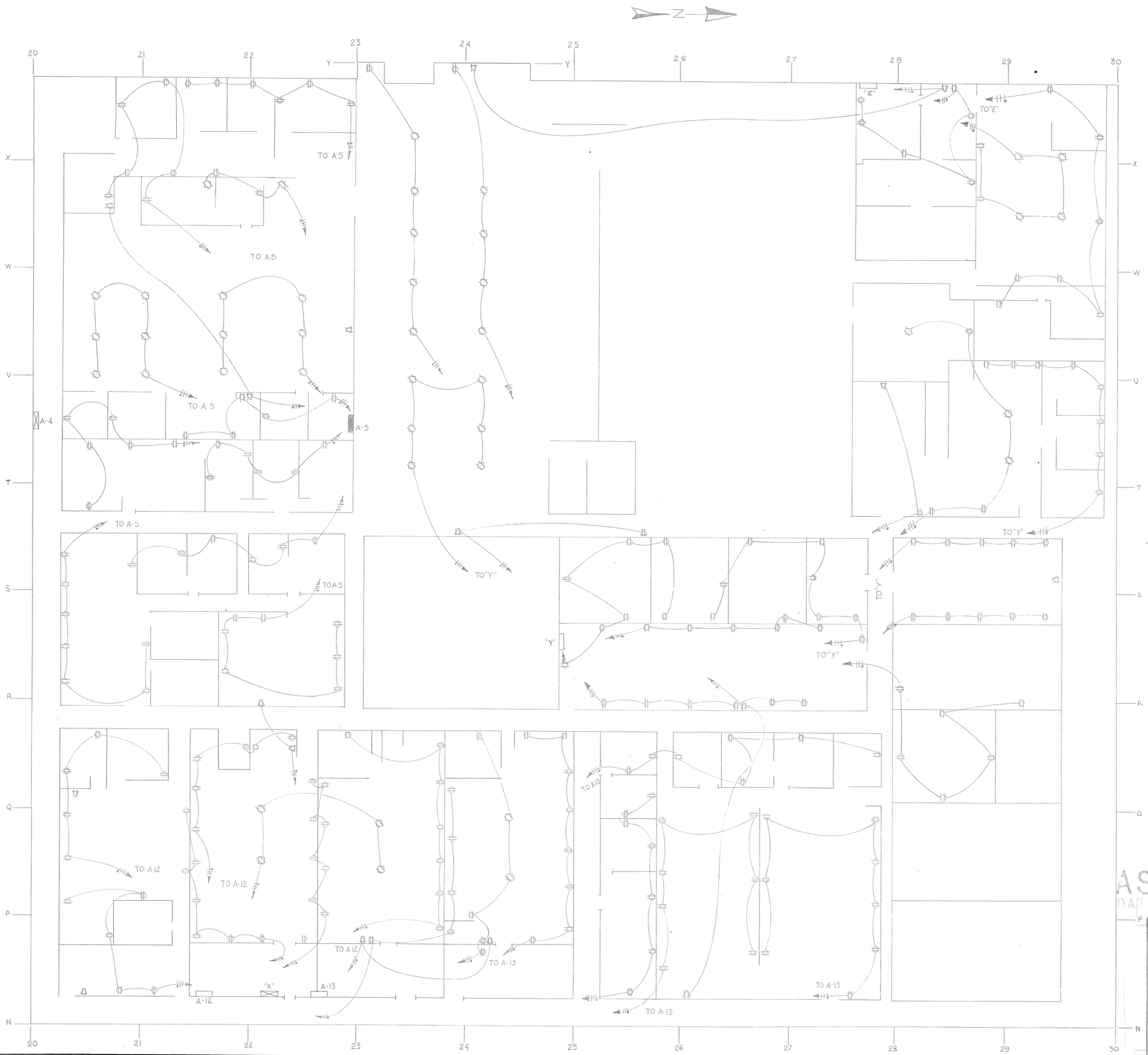
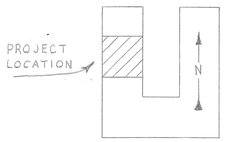


KEY PLAN



BLDG. I

LEGEND

PANEL BOARDS TO REMAIN
" " " REMOVE
" " " REPLACE
DUPLEX RECEPTACLE
SINGLE RECEPTACLE
RECEPTACLE POLE
BRANCH CIRCUIT
ARROW - HOME RUN
LONG HASH - LINE CONDUCTOR
SHORT HASH - NEUTRAL CONDUCTOR
DOT HASH - GROUNDING CONDUCTOR

NOTE: HOME RUNS MAY BE INSTALLED IN COMMON RACEWAYS, PER N.E.C.

AS BUILT
DATE Sept-'77

REVISION	DATE	DESCRIPTION	BY	CHK'D
1	MAY 74			

DEPARTMENT OF THE AIR FORCE
TINKER AIR FORCE BASE
OCAMA
CIVIL ENGINEERING DIVISION
OKLAHOMA CITY — OKLAHOMA

DESIGNED BY BLUM
DRAWN BY JORDAN
TRACED BY
CHECKED BY
SUBMITTED BY — DATE
CHIEF, ENGR. & CONST. BRANCH — APPROVED — DATE
DEPUTY CIVIL ENGINEER — APPROVED — DATE
OFFICE, GROUND SAFETY ENGINEER — APPROVED — DATE
OFFICE, SURGEON (SAN/IND. HYG. ENGR) — APPROVED — DATE

REPAIR ELECTRIC SERVICE, BLDG. I

PLAN

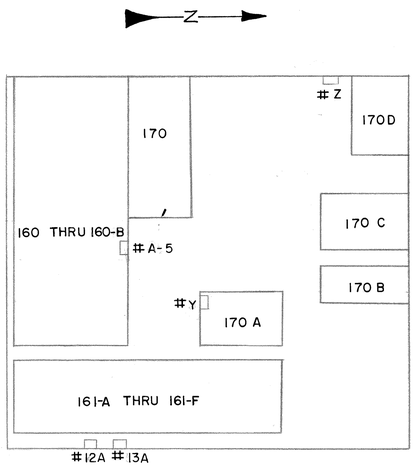
APPROVED — DATE
THE CIVIL ENGINEER

PROJECT NR OC-72-3 — DATE JAN 73
DRAWING NUMBER DE-F-7361-1
SHEET 1 OF 2

OKLAHOMA CITY ALC FORM JUN '63 2298 PREVIOUS EDITION MAY BE USED

T1 - 1 - F 6 - 194

MAMA APR 71, 500



NO SCALE

GENERAL NOTES:

(1.) PREWIRE SYSTEMS AS REQUIRED BEFORE DISCONNECTING TO REDUCE DOWNTIME.

(2.) DEMOLITION: REMOVE ALL DROP CORD (CEILING SUPENDED) RECEPTACLES AND ALL ASSOCIATED BRANCH CIRCUITS AND RACEWAY IN ALL AREAS OF WORK.

(3) ALL NEW MATERIALS SHALL BE AS FOLLOWS:

(a.) CIRCUIT BREAKERS- 250 VAC, 250/125 VDC, BOLT ON TYPE, 10,000 A. SYM. 20 AMP ALL SINGLE POLE EXCEPT CIRCUIT 15, PANELBOARD A-5.

(b) PANELBOARD A-5- 120/208 VAC, 3 PHASE, 4 WIRE, 60 HZ, SURFACE MOUNTED, 225 A. MAIN LUGS, 100% NEUTRAL.

(c.) WIRE- TYPE "TW" # 12 AWG.

(d.) RACEWAY- E MT, ½" OR LARGER.

(e.) RECEPTACLE POLES- HEIGHT AS REQUIRED, CROSS-SECTION 1 7/16" X 2 3/4", POLE WITH STANCHION, WIRED WITH 2 GROUNDING DUPLEX RECEPT RATED 15 A, 125 V. (WIREMOLD TELE-POWER POLE # 30 TP-2 OR EQUAL.

(f.) DUPLEX RECEPTACLES- 15 AMP GROUNDING RECEPTACLE (NEMA 5-15R)
SINGLE RECEPTACLE- 20 AMP GROUNDING RECEPTACLE (NEMA 5-20 R.)

(4.) WHEN REMOVING EXISTING RACEWAYS, WIRE AND RECEPTACLES, REMOVE COMPLETELY BACK TO PANELBOARD OR REMAINING ACTIVE TAP.

(5) RECEPTACLE POLES SHALL BE SECURED TO BUILDING STRUCTURE (NOT TO SUSPENDED CEILING MEMBERS) AND SHALL BE FLOOR MOUNTED WITH MASONRY ANCHORS. POLES SHALL BE ADJACENT TO DESKS WITH EXACT LOCATIONS AS DIRECTED BY THE CONTRACTING OFFICER.

(6.) SINGLE RECEPTACLES, 20 A, ARE INTENDED FOR USE OF COFFEE MAKERS AND ARE TO BE SERVED BY INDIVIDUAL BRANCH CIRCUITS AS SHOWN.

(7) ALL EXISTING CIRCUIT BREAKERS IN PANELBOARDS TO BE REMOVED SHALL REMAIN AS GOVERNMENT PROPERTY.

(8.) FOLLOWING NOTES APPLY TO RECEPTACLE CIRCUITS IN SPECIFIC AREAS:

A. AREA 160

(1.) AFTER COMPLETING THE PREWIRING REMOVE THE TWO PANELBOARDS (A-4 & A-5) AND PLACE NEW PANELBOARD IN LOCATION PREVIOUSLY USED BY A-5. THE PANELBOARD SHALL CONSIST OF 39 SP 20 A & (1) 3P 20 A BREAKERS (SEE SCHEDULE). REMOVE ALL EXISTING DROPCORDS, RACEWAYS BACK TO PANELBOARD.

(2.) EXISTING CEILING HEIGHT IN THIS AREA IS APPROX 11' 11".

B. AREA 161

(1.) REMOVE PANELS IN SUSPENDED CEILING AND PROCEED TO PREWIRE BEFORE DISCONNECTING EXISTING CIRCUITS. AFTER THIS HAS BEEN COMPLETED REMOVE ALL CONDUIT AND WIRES BACK TO PANELBOARDS.

(2.) ON EAST WALL LOCATE PANELBOARDS A-12 AND A-13, TRANSFER CIRCUITS FROM PANELBOARD X (AS OUTLINED IN SCHEDULE AS SHOWN) TO A-12 AND A-13.

(3.) EXPAND A-12 AND A-13 CAPACITY BY ADDING (10)-20 ASP CIRCUIT BREAKERS TO EACH.

(4) CONDUIT SHALL BE PLACED ABOVE SUSPENDED CEILING, FASTENDED TO THE MAIN STRUCTURE AND NOT THE SUSPENDED CEILING.

(5) EXISTING CEILING HEIGHT IN THIS AREA IS APPROX. 9'6".

C. AREA 170, 170 A, 170 B, AND 170 C

(1.) AFTER PREWIRING HAS BEEN COMPLETED, REMOVE ALL DROP CORD RECEPTACLES IN AREAS 170 AND 170 C, AND WALL MOUNTED RECEPTACLES IN AREAS 170 A AND 170 B (INCLUDING RACEWAYS AND WIRES) BACK TO LAST ACTIVE TAP ON PANELBOARD.

(2) USE SCHEDULE AS SHOWN FOR PANEL Y REGARDLESS OF WHERE CIRCUIT WAS ORIGINALLY LOCATED. PANELBOARD IS LOCATED ON SOUTH WALL IN ROOM 170 A.

(3) CONDUIT SHALL BE CONCEALED ABOVE SUSPENDED CEILING FASTENDED TO MAIN STRUCTURE NOT CEILING.

(4.) EXISTING CEILING HEIGHTS ARE APPROXMATELY 10'6" IN AREA 170 AND 11' IN AREAS 170 A, 170 B AND 170 C.

D. AREA 170 D

(1.) AFTER PREWIRING, REMOVE ALL DROPCORD RECEPTACLES, RACEWAYS AND WIRE BACK TO PANELBOARD OR LAST ACTIVE TAP.

(2.) POWER TO BE SUPPLIED FROM PANELBOARD Z LOCATED AT POST 28Y AND SHALL USE AVAILABLE BREAKERS OR THOSE LISTED AS SHOWN ON PANEL Z SCHEDULE.

(3.) CONCEAL RACEWAY AND WIRES ABOVE SUSPENDED CEILING, FASTEN TO MAIN STRUCTURE, NOT CEILING.

(4.) EXISTING CEILING IS APPROXIMATELY 10½ IN THIS AREA.

PANELBOARD SCHEDULE

PANEL A-5 (NEW)

120/208 VAC 3PH 4W 60 HZ 225A MAIN LUGS
100% NEUTRAL SURFACE MOUNTED WITH
BRANCH CIRCUIT BREKERS 250 VAC, 250/125 VDC
BOLT ON TYPE, 10,000 A SYM.

CIRCUIT NUMBERS	POLES	TRIP A	LOAD
1-6	SP	20 A	EXISTING LIGHTING ON PANEL A-4
7-14	SP	20 A	EXISTING LIGHTING ON PANEL A-5
15	3P	20 A	EXISTING SORTER ON PANEL A-5
16-18	SP	20 A	NEW COFFEE RECEPT.
19-32	SP	20 A	NEW RECEPTACLES
33-40	SP	20 A	SPARES

PANEL A-12 (EXISTING)

ZINSCO - # -473739
3φ 120/208 VOLTS
100 AMP
3φ-4W

CIRCUIT NUMBERS	POLES	TRIP A	LOAD
1.	SP	20 A	RELOCATE CRT. 1 FROM A-X (LIGHTS)
2.	SP	20 A	EXISTING (LIGHTS)
3-5	SP	20 A	RELOCATE CRT. 2, 4, 6 FROM A-X
6-8	SP	20 A	SPARE
9.	SP	20 A (NEW)	RELOCATE 1 WIRE FROM CRT. 10 (LIGHTS)
10.	SP	20 A	ONE WIRE TO REMAIN (LIGHTS)
11.	SP	20 A	SPARE
12.	SP	20 A	NEW RECEPTACLES
13.	SP	20 A	NEW RECEPTACLES
14.	SP	20 A	RELOCATE 1 WIRE FROM CRT. 16 (LIGHTS)
15.	SP	20 A	RELOCATE 1 WIRE FROM CRT. 17 (LIGHTS)
16.	SP	20 A	ONE WIRE TO REMAIN (LIGHTS)
17.	SP	20 A	ONE WIRE TO REMAIN (LIGHTS)
18-20	SP	20 A	EXISTING LIGHTS
21-30	SP	20 A (NEW)	NEW RECEPTACLES

PANEL A-13 (EXISTING)

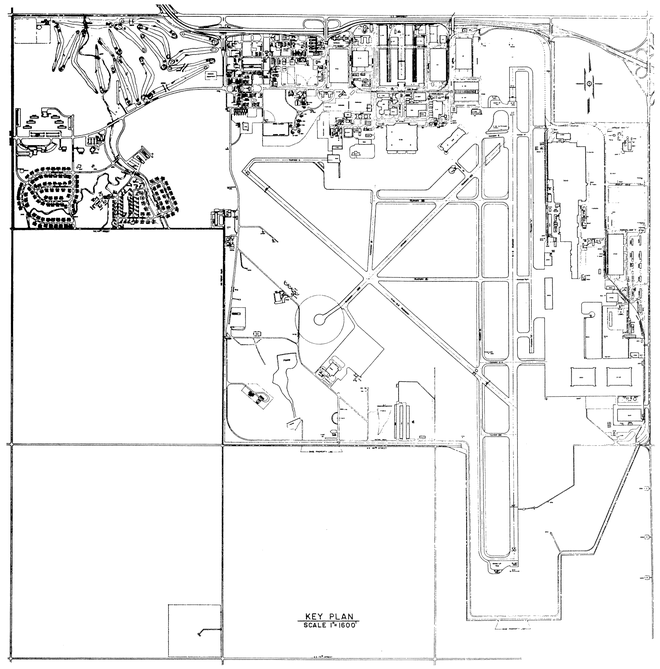
ZINSCO
3φ 120/208 VOLTS
100 AMP
3φ-4W

CIRCUIT NUMBERS	POLES	TRIP A	LOAD
1.	SP	20 A	EXISTING (DOCK LIGHTS)
2-7	SP	20 A	EXISTING (OLD LIGHTS)
8-10	SP	20 A	RELOCATE CRT. 7, 9, 15 FROM A-Y (LIGHTS)
11-16	SP	20 A	EXISTING
17	SP	20 A	EXISTING REMOTE STATION
18	SP	20 A	RELOCATE CRT. 20 FROM A-Y (LIGHTS)
19-20	SP	20 A	SPARE
21-29	SP	20 A (NEW)	NEW RECEPTACLES
30	SP	20 A (NEW)	SPARE

PANEL Y (EXISTING)

GENERAL ELECTRIC
TYPE NAB
225 A 120/208 VAC
3φ-4W

CIRCUIT NUMBERS	POLES	TRIP A	LOAD
1-3	SP	20 A	EXISTING
4	SP	20 A	SPARE
5-15	SP	20 A	EXISTING
16	SP	20 A	SPARE
17-19	SP	20 A	EXISTING
20	SP	20 A	SPARE
21-24	SP	20 A	EXISTING
25	SP	20 A	SPARE
26	SP	20 A	EXISTING
27	SP	20 A	SPARE
28	SP	20 A	EXISTING
29	SP	20 A	WIRE RECEPTACLES IN AREA 170 C
30	SP	20 A	EXISTING
31	SP	20 A	WIRE RECEPTACLES IN AREA 170 C
32	SP	20 A	EXISTING
33-35	SP	20 A	WIRE RECEPTACLES IN AREA 170
36-38	SP	20 A	WIRE RECEPTACLES IN AREA 170 A
39-41	SP	20 A	WIRE RECEPTACLES IN AREA 170 B
42	SP	20 A	WIRE RECEPTACLES IN AREA 170 C

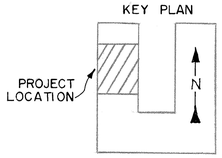


PANEL Z (EXISTING)

ZINSCO # 473717
120/208 VAC 100 AMP
3φ-4W

CIRCUIT NUMBERS	POLES	TRIP A	LOAD
1-4	SP	20 A	EXISTING
5-6	SP	20 A	
7-16	SP	20 A	EXISTING
17	SP	20 A	(USE)
18-19		20 A	EXISTING
20		20 A	(USE)
21-27		20 A	EXISTING
28	SP	20 A	(USE)
29-30	SP	20 A	EXISTING

KEY PLAN



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AS BUILT
DATE Sept. '77

REVISION	DATE	DESCRIPTION	BY	CHK'D

DEPARTMENT OF THE AIR FORCE
TINKER AIR FORCE BASE
OCAMA
OKLAHOMA CITY — CIVIL ENGINEERING DIVISION — OKLAHOMA

DESIGNED BY: BLOM
DRAWN BY: JORDAN
TRACED BY:
CHECKED BY
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CHIEF, ENGR. & CONST. BRANCH — DATE
APPROVED — DATE
DEPUTY CIVIL ENGINEER
APPROVED — DATE
OFFICE, GROUND SAFETY ENGINEER
APPROVED — DATE
OFFICE, SURGEON (SAN/IND. HYG. ENGR)

APPROVED: CHIEF, FIRE PREVENTION — DATE 5 Mar 73; DEPUTY CIVIL ENGINEER — DATE 5 March 73; DEPUTY CIVIL ENGINEER — DATE 5 Mar 73; CHIEF, ENGR. & CONST. BRANCH — DATE 5 Mar 73; DEPUTY CIVIL ENGINEER