

1 **SECTION 623 – TRAFFIC SIGNAL SYSTEM**

2
3 Make the following amendments to said Section:

4
5
6 **(I)** Amend **Subsection 623.02 Materials**, by replacing lines 99 to line 131 to
7 read as follows:

8

9 “Traffic Management Center (TMC)	770.01
10 Signal Performance Measures (SPM)	770.02
11 Cellular Communications	770.03
12 Conflict Monitor Unit (CMU)	770.04
13 Video Detection System	770.05”

14
15
16
17
18

19 **(II)** Remove lines 188-192 in its entirety.

20
21 **(III)** Remove lines 196-327 in its entirety.

22
23 **(IV)** Remove lines 437-451 in its entirety.

24
25 **(V)** Amend **Subsection 623.03(C) Installation** by adding the following after line
26 451 to read as follows:

27
28 **“(15) Traffic Management Center (TMC).** Install a traffic management
29 center in a select room at the Department of Transportation Kauai
30 Baseyard, as directed by the Engineer. The traffic management system will
31 consist of servers, monitors, workstations and all necessary hardware
32 including, but not limited to, network switches, and hardwiring to operate
33 existing Centracs software in accordance with the contract documents.
34 Contractor to coordinate with HDOT to configure TMC software and traffic
35 signal system communication and ensure that all components are operating
36 accordingly.

37
38 A general layout of the TMC is shown in Figure 2 and is subject to change
39 upon approval by the Engineer. Furniture shall be office-modular with quality
40 similar to existing, installed to maximize space as shown in Figure 2. The
41 Contractor shall provide a submittal layout of the TMC room to the Engineer
42 for approval.

43
44 **(16) Signal Performance Measures (SPM).** Install a supplemental traffic
45 data collection and analytics software for signal optimization applications.
46

47 **(17) Cellular Communications.** Install cellular communication devices
48 connected through a priority network service to select signalized
49 intersections as directed by the Engineer.
50

51 **(18) Conflict Monitor Unit (CMU)** Install conflict monitor units to select
52 signalized intersections as directed by the Engineer.
53

54 **(19) Video Detection System.** Install video detection systems to select
55 signalized intersections as directed by the Engineer.”
56

57 **(VI)** Remove lines 453-465 in its entirety.
58

59 **(VII)** Amend **Subsection 623.03(G) Other Services** from line 493 to line 494 to
60 read as follows:
61

62 “**(1)** The contractor shall perform the following upon submittal of a work
63 plan and approval by the Engineer:”
64

65 **(VIII)** Remove line 505 in its entirety.
66

67 **(IX)** Amend **Subsection 623.03(G) Other Services** from line 507 to line 508
68 to read as follows:
69

70 “**(2)** Upon approval of the Engineer, the Contractor shall perform the
71 following.”
72

73 **(X)** Amend **Subsection 623.04 Measurement** from line 578 to line 579 to read
74 as follows:
75

76 “**623.04 Measurement.** The TMC system and SPM software will be paid
77 per Lump Sum. Other traffic signal system items will be paid per each in
78 accordance with the contract documents.”
79

80 **(XI)** Amend **Subsection 623.05 Payment** from line 581 to line 590 to read as
81 follows:
82

83 “**623.05 Payment.** The Engineer will pay for accepted items listed below at
84 the contract price per pay unit, as shown in the proposal schedule. Payment will
85 be full compensation for the work prescribed in this section and the contract
86 documents.

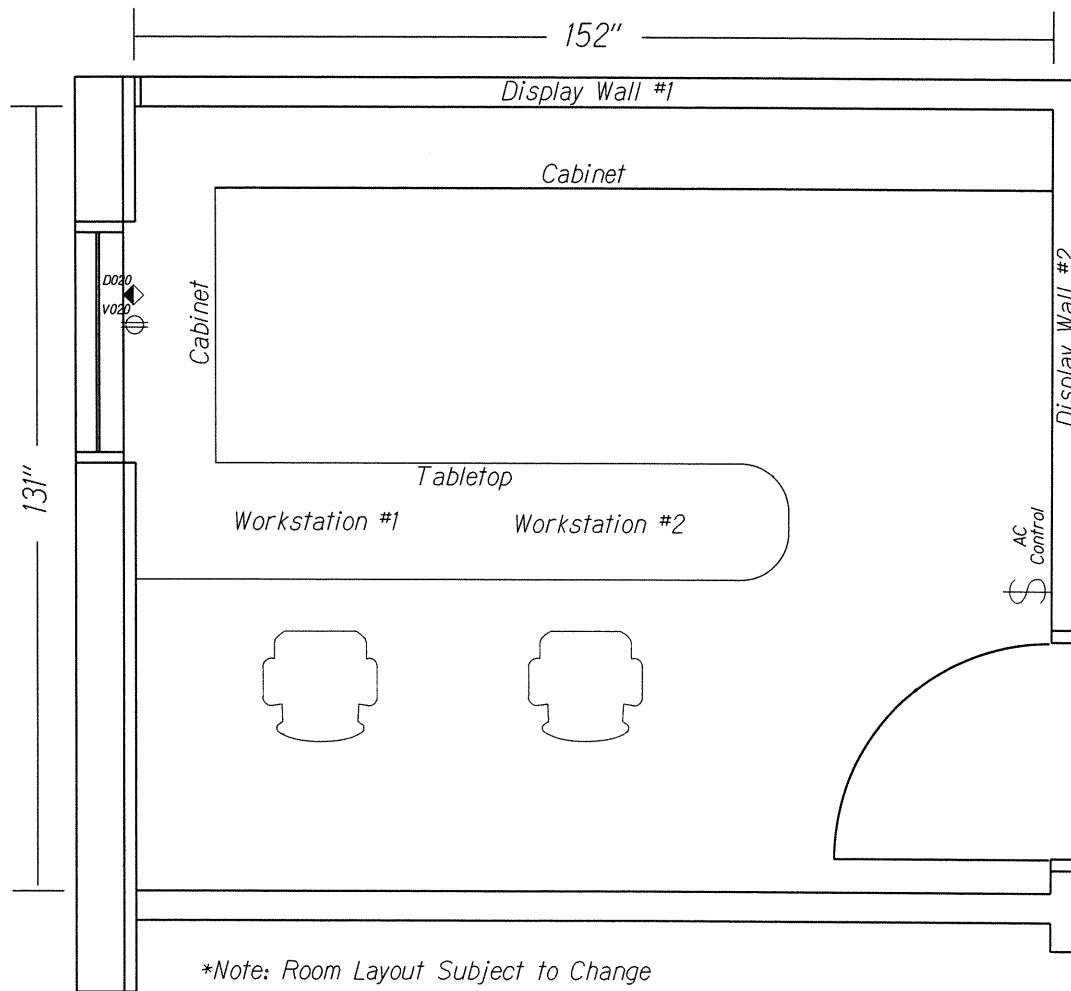
87
88 The Engineer will pay for each of the following pay items when included in
89 the proposal schedule:

90	Pay Item	Pay Unit
91		
92		
93	(A) Traffic Management Center (TMC)	Lump Sum
94		
95	(B) Signal Performance Measures (SPM)	Lump Sum
96		
97	(C) Cellular Communication	Each
98		
99	(D) Conflict Monitor Unit (CMU)	Each
100		
101	(E) Video Detection System – 3-Leg Intersection	Each
102		
103	(F) Video Detection System – 4-Leg Intersection	Each"
104		
105		
106		
107		

END OF SECTION 623

Traffic Management Center (TMC)

Not to Scale

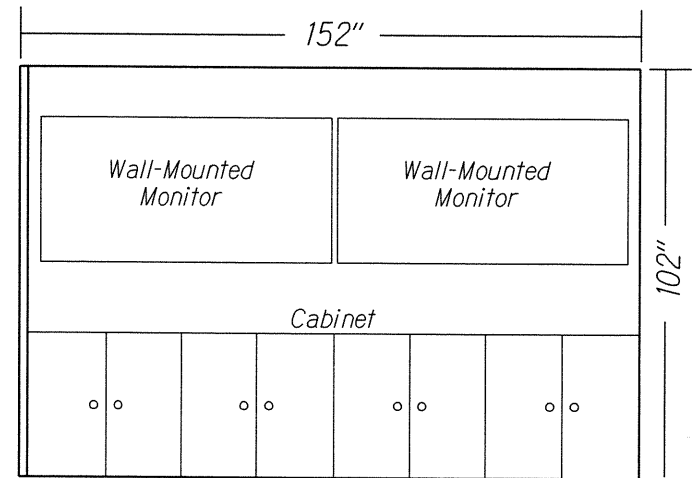


**Note: Room Layout Subject to Change
Upon Approval by the Engineer.*

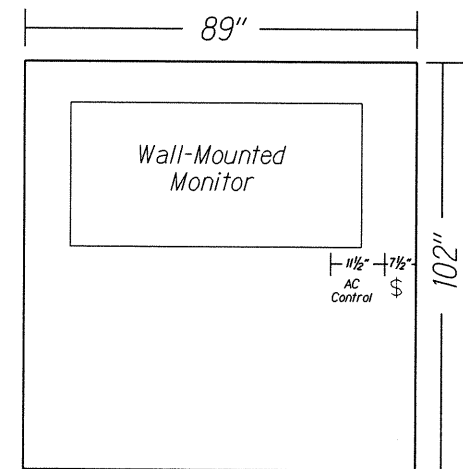
Legend:

- ⊕ Receptable, Duplex, Wall Mounted
- ◀ Tel/Data Outlet, Wall Mounted
- \$ Switch, Flush Tumbler, Wall Mounted

*HWY-K-03-18
Figure 2*

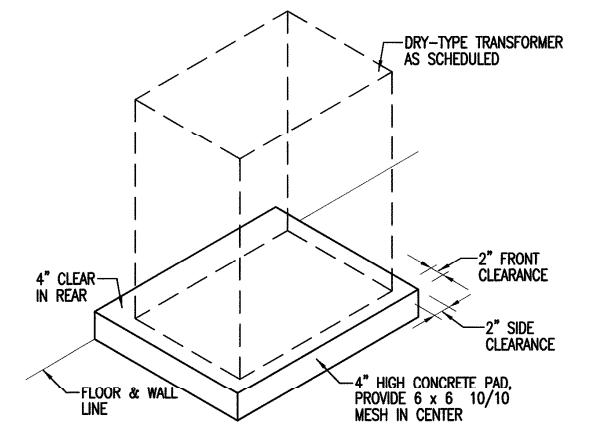


Display Wall #1

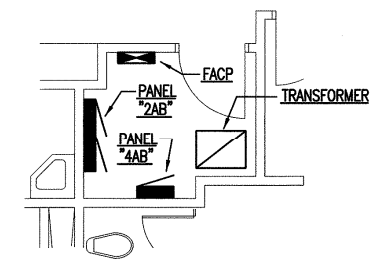


Display Wall #2

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	141	150

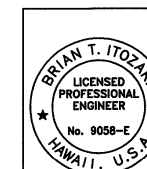


2 DETAIL - DRY-TYPE TRANSFORMER PAD
E2.01 NOT TO SCALE



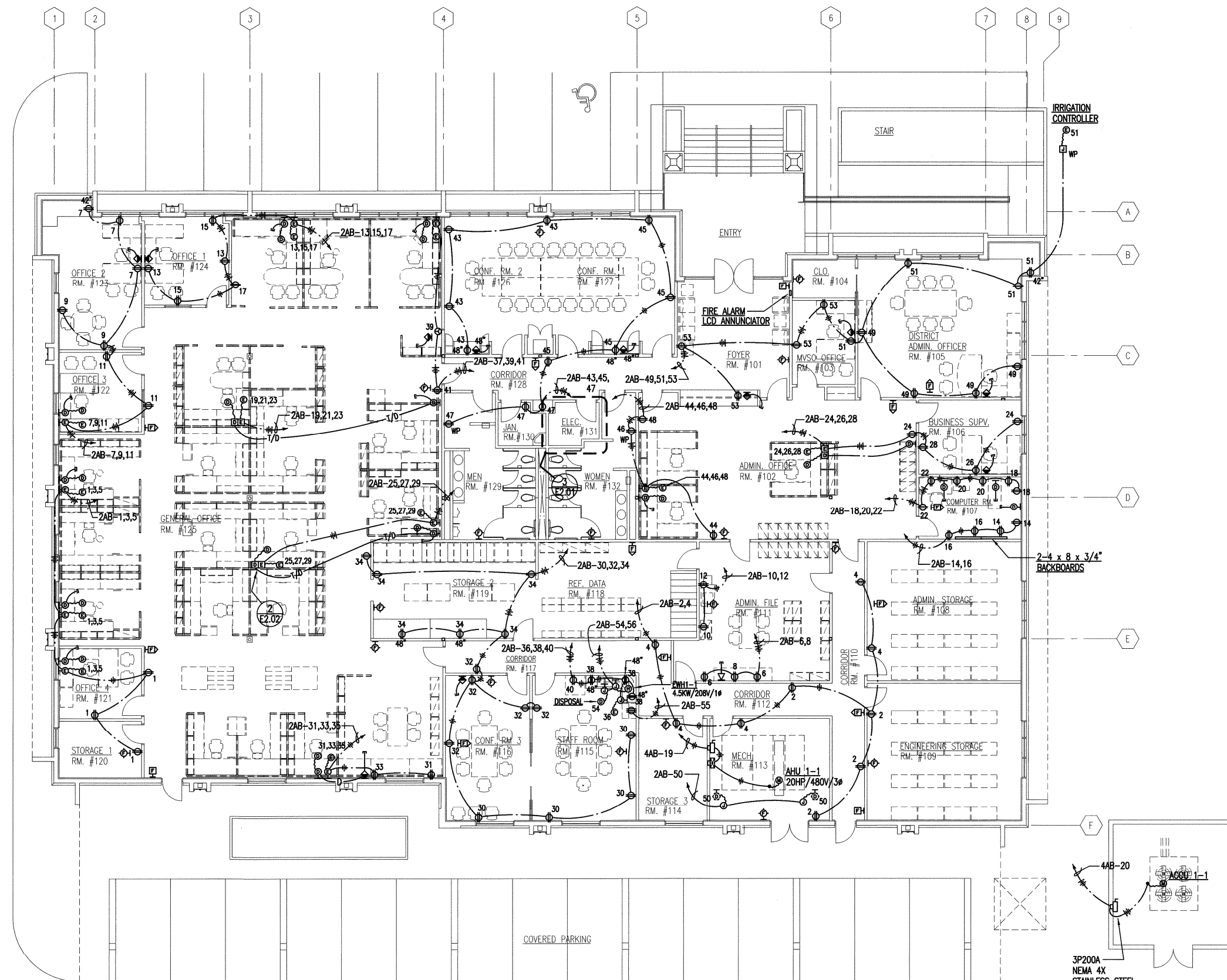
3 PLAN - ELECTRIC ROOM
E2.01 SCALE: 1/4" = 1' - 0"

NOTE:
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR INTERCONNECTION OF FIRE ALARM SYSTEM DEVICES.



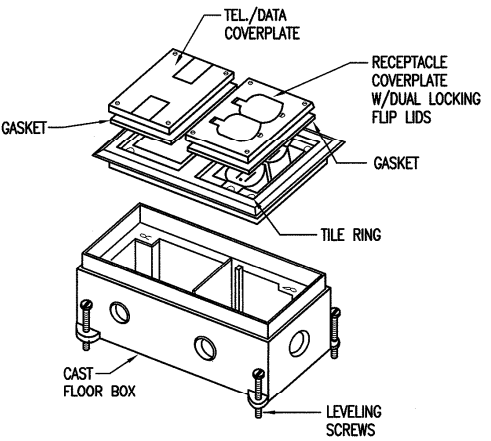
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CENTRALIZED DISTRICT OFFICE
AND BASEYARD COMPLEX**
LIHUE, KAUAI
PROJECT NO. HWY-K-03-98
**ADMINISTRATION BUILDING
ELECTRICAL PLAN**
SCALE: AS SHOWN
DATE: MAR. 30, 01
SHEET NO. E2.01 OF 150 SHEETS



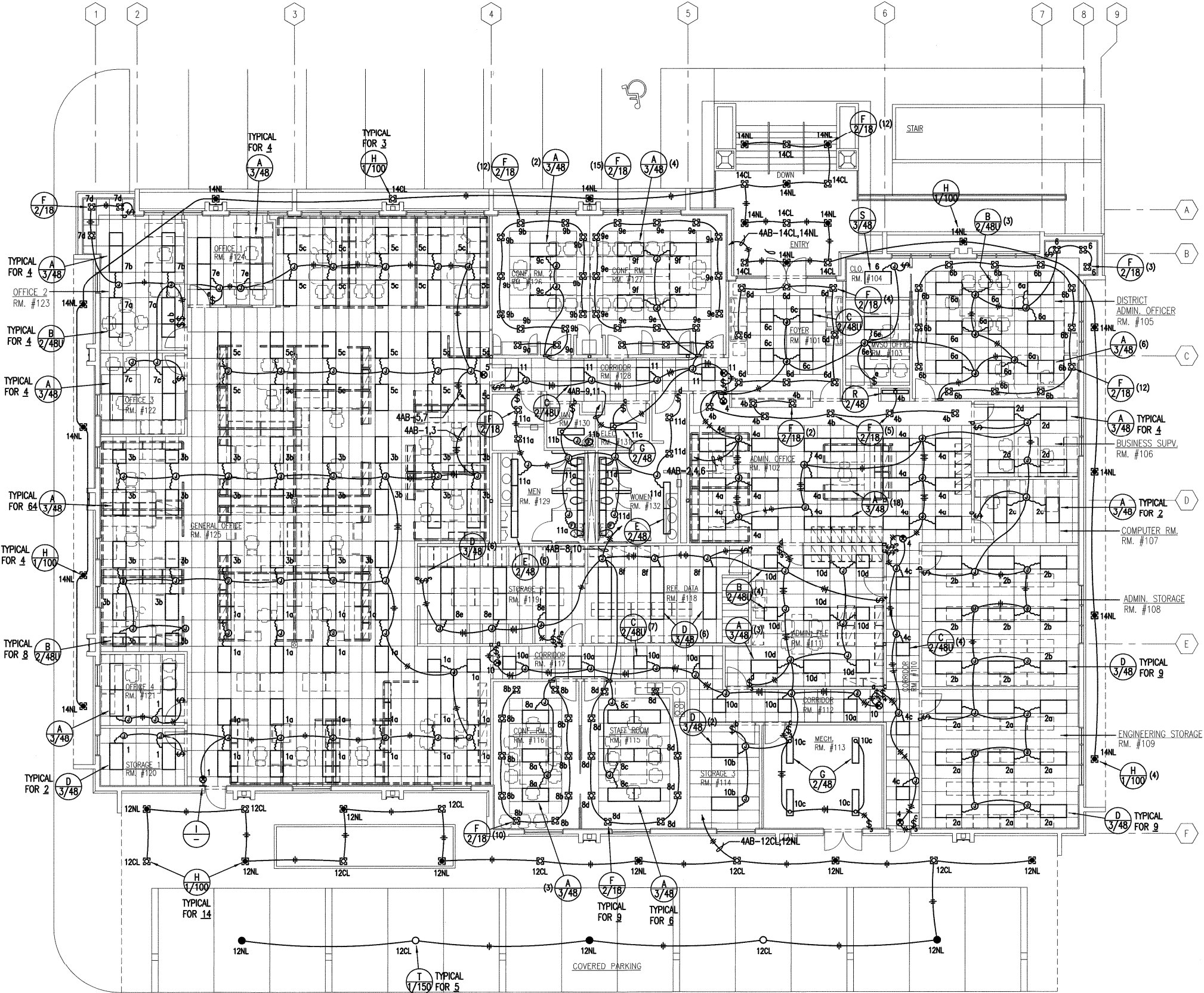
1 ADMINISTRATION BUILDING ELECTRICAL PLAN
E2.01 SCALE: 1/8" = 1' - 0"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	142	150

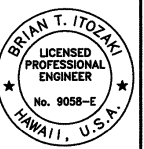


2-GANG SYMBOL ON PLAN: **[DE]**
 MANUFACTURER:
 WALKER OMNIBOX
 FLOOR BOX: 880 CM2, 2 7/16"H
 BRASS TILE RING: # 827T
 BRASS COVERPLATE:
 POWER: 828R
 TEL/DATA: 829S
 WALKER, STEEL CITY OR APPROVED EQUAL

2 FLOOR MOUNTED OUTLET BOX
 NOT TO SCALE



1 ADMINISTRATION BUILDING LIGHTING PLAN
E2.02 SCALE: 1/8" = 1' - 0"



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**CENTRALIZED DISTRICT OFFICE
 AND BASEYARD COMPLEX**
 LIHUE, KAUAI
 PROJECT NO. HWY-K-03-98
**ADMINISTRATION BUILDING
 LIGHTING PLAN**

SCALE: AS SHOWN DATE: MAR. 30, 01
 SHEET NO. E2.02 OF 150 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-98	2001	143	150

PANEL "2AB" SCHEDULE		208Y/120 VOLTS, 3 PHASES, 4 WSN BREAKER MIN. A.I.C. 10,000 SURFACE MTG. 225A MAIN BKR.					
(SECTION 1)		CIRCUIT BREAKER		CONNECTED LOAD (KVA)			WIRE SIZE
CKT. NO.	USE	POLES	AMPS	A	B	C	
1	RECEPTACLES	1	20	1.2			12
2	RECEPTACLES	1	20	1.2			12
3	RECEPTACLES	1	20		1.2		12
4	RECEPTACLES	1	20		1.2		12
5	RECEPTACLES	1	20			1.2	12
6	RECEPTACLES	1	20			1.2	12
7	RECEPTACLES	1	20	1.2			12
8	RECEPTACLES	1	20	1.2			12
9	RECEPTACLES	1	20		1.2		12
10	RECEPTACLES	1	20		1.2		12
11	RECEPTACLES	1	20			1.2	12
12	RECEPTACLES	1	20			1.2	12
13	RECEPTACLES	1	20	1.2			12
14	RECEPTACLES	1	20	1.2			12
15	RECEPTACLES	1	20		1.2		12
16	RECEPTACLES	1	20		1.2		12
17	RECEPTACLES	1	20			1.2	12
18	RECEPTACLES	1	20			1.2	12
19	RECEPTACLES	1	20	1.2			12
20	RECEPTACLES	1	20	1.2			12
21	RECEPTACLES	1	20		1.2		12
22	RECEPTACLES	1	20		1.2		12
23	RECEPTACLES	1	20			1.2	12
24	RECEPTACLES	1	20			1.2	12
25	RECEPTACLES	1	20	1.2			12
26	RECEPTACLES	1	20	1.2			12
27	RECEPTACLES	1	20		1.2		12
28	RECEPTACLES	1	20		1.2		12
29	RECEPTACLES	1	20			1.2	12
30	RECEPTACLES	1	20			1.2	12
31	RECEPTACLES	1	20	1.2			12
32	RECEPTACLES	1	20	1.2			12
33	RECEPTACLES	1	20		1.2		12
34	RECEPTACLES	1	20		1.2		12
35	RECEPTACLES	1	20			1.2	12
36	RECEPTACLES	1	20			1.2	12
37	RECEPTACLES	1	20	1.2			12
38	RECEPTACLES	1	20	1.2			12
39	RECEPTACLES	1	20		1.2		12
40	RECEPTACLES	1	20		1.2		12
41	RECEPTACLES	1	20			1.2	12
42	RECEP. -- REFRIG.	1	20			1.2	12
		TOTAL LOAD/ PHASE		-	-	-	
		TOTAL LOAD		KVA			
		DEMAND FACTOR					
		DEMAND LOAD		KVA			

[illegible][illegible]