

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HNY-M-01-75	1977	28	32

ELECTRICAL SYMBOLS

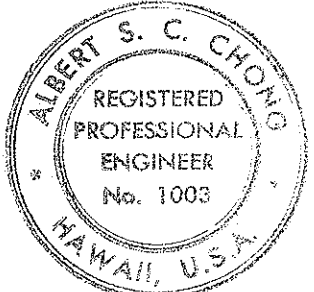
- CEILING OUTLET, INCANDESCENT
- WALL OUTLET, INCANDESCENT, NITE LIGHT
- CEILING OUTLET, FLUORESCENT
- S SWITCH, 1P20A, + 4
- S₃ SWITCH, 3W20A, + 4
- S₂ SWITCH, 2P20A, + 4
- S_P SWITCH, 1P20A WITH PILOT LIGHT, + 4
- ⊕ DUPLEX CONVENIENCE OUTLET, 3W15A, GROUNDING TYPE, + 12" UNLESS OTHERWISE NOTED.
- ⊙ SPECIAL OUTLET, SIZE AND TYPE AS NOTED +12" UNLESS OTHERWISE NOTED
- ⊙ CLOCK OUTLET
- ⊙ JUNCTION BOX, WALL, 4-11/16" SQUARE MINIMUM
- ⊙ JUNCTION BOX, CEILING, 4-11/16" SQUARE MINIMUM
- ⊙ JUNCTION BOX, LARGE
- PANELBOARD
- ⊙ TELEPHONE OUTLET, +12"
- ⊙ TIME SWITCH
- ⊙ TELEPHONE CABINET
- WP WEATHERPROOF
- EP EXPLOSION PROOF
- DT DUST-TIGHT
- ⊙ MOTOR OUTLET
- ⊙ MOTOR CONTROLLER
- ⊙ SAFETY SWITCH
- ⊙ EXPLOSION PROOF SEAL
- FLOOR OUTLET
- ⊙ TELEPHONE FLOOR OUTLET
- EXISTING UTILITY POLE

- WIRING IN RACEWAY CONCEALED IN WALL OR CEILING
- WIRING IN RACEWAY CONCEALED IN FLOOR OR BELOW GRADE
- WIRING IN EXPOSED RACEWAY
- WIRING IN EXISTING UNDERGROUND OR UNDERFLOOR RACEWAY
- E-T- EXISTING OVERHEAD ELECTRIC AND TELEPHONE LINES
- E-T-X- EXISTING OVERHEAD ELECTRIC AND TELEPHONE LINES TO BE REMOVED

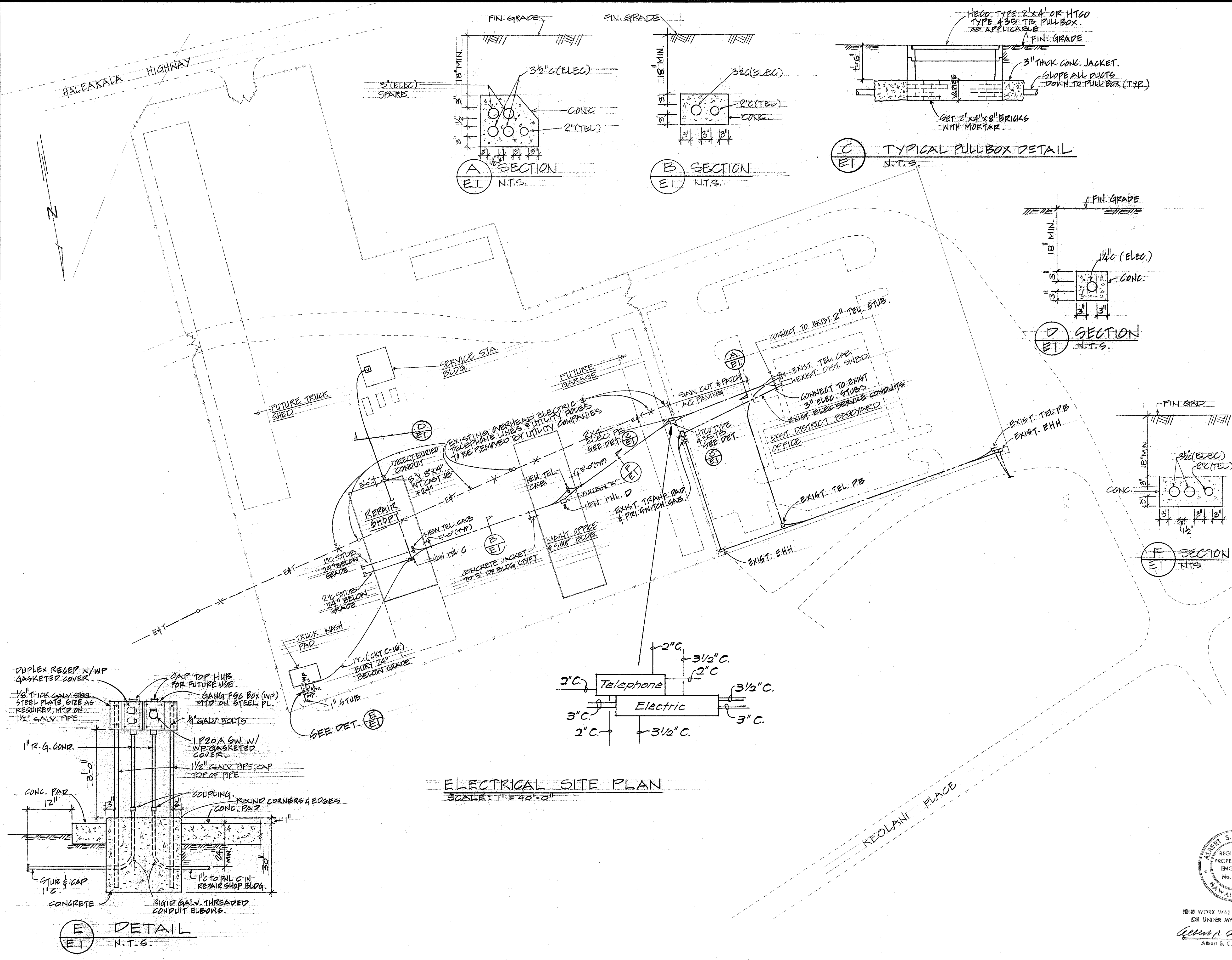
NOTES: ANY CIRCUIT WITH NO FURTHER DESIGNATION INDICATES A TWO WIRE CIRCUIT. CIRCUITS WITH ADDITIONAL WIRES ARE INDICATED AS FOLLOWS:
 /// , 3 WIRES:
 /// , 4 WIRES, ETC.

GROUND WIRE PER NATIONAL ELECTRICAL CODE INDICATED AS FOLLOWS: —C—

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
ELECTRICAL SITE PLAN, SYMBOLS AND DETAILS		
MAUI DISTRICT BASEYARD PHASE II		
KAHULUI	MAUI	HAWAII
PROJECT NO. HNY-M-01-75		
NISHIMURA AND OKI ENGINEERS JAN, 1977		
SHEET No. E-1 OF 4 SHEETS		



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Albert S. C. Chong
 Albert S. C. Chong, P.E.



DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

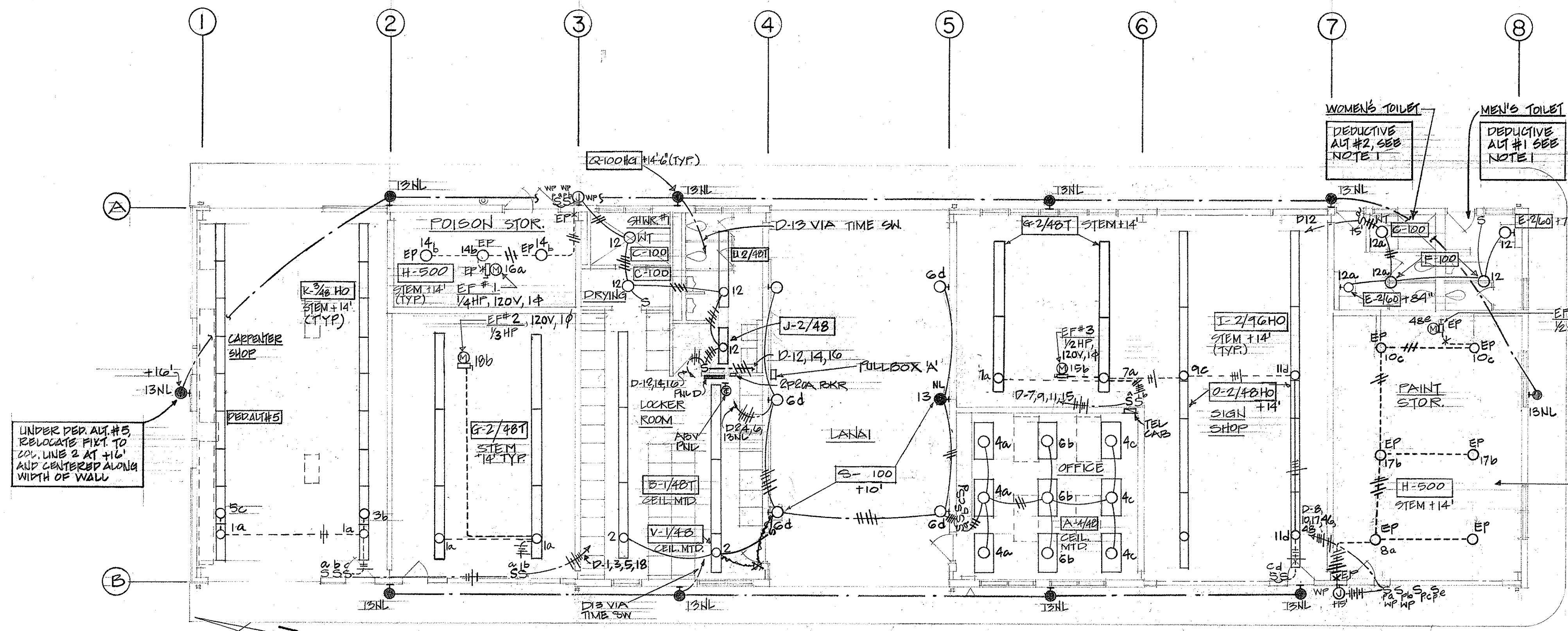
E-1 DETAIL
 N.T.S.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-75	1977	24	32

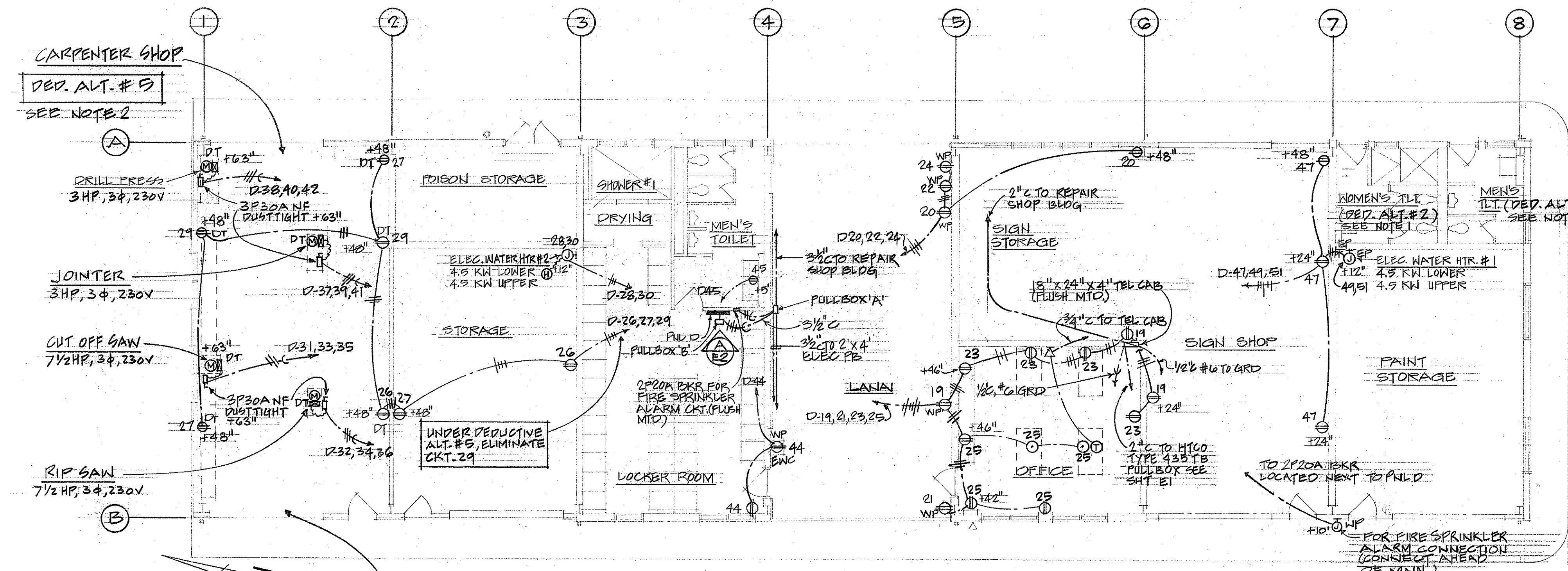
PANEL D - 208Y/120 VOLTS, 3Ø 4WSN TWO SECTIONS
BREAKER I.C. 10,000A. SURFACE
INDUSTRIAL-BOLTED 15" WIDE

CKT NO.	BKR.	LOAD	ØA	ØB	ØC	WIRE SIZE
1	IP20A	LTS	1.7			12
2			0.6			
3		*		1.8		
4				1.2		
5		*			1.8	
6					1.2	
7			0.8			
8			1.0			
9				1.1		
10				1.0		
11					1.1	
12					1.0	
13		NL	1.3			
14			1.5			
15	IP30A	EF NO. 3		1.2		
16	IP20A	EF NO. 1		0.7		
17	IP20A	LTS			1.0	
18	IP20A	EF NO. 2		0.9		
19	IP20A	RECEP	1.0			
20			1.0			
21		CIGARETTE MACH.		1.0		
22		SODA DISP		1.0		
23	IP20A	RECEP			1.0	
24		ICE MACH.			1.0	
25			1.0			
26			1.0			
27				1.0		
28,30	2P30A	EWB NO. 2		2.3	2.3	10
29	IP20A	RECEP	*		1.0	12

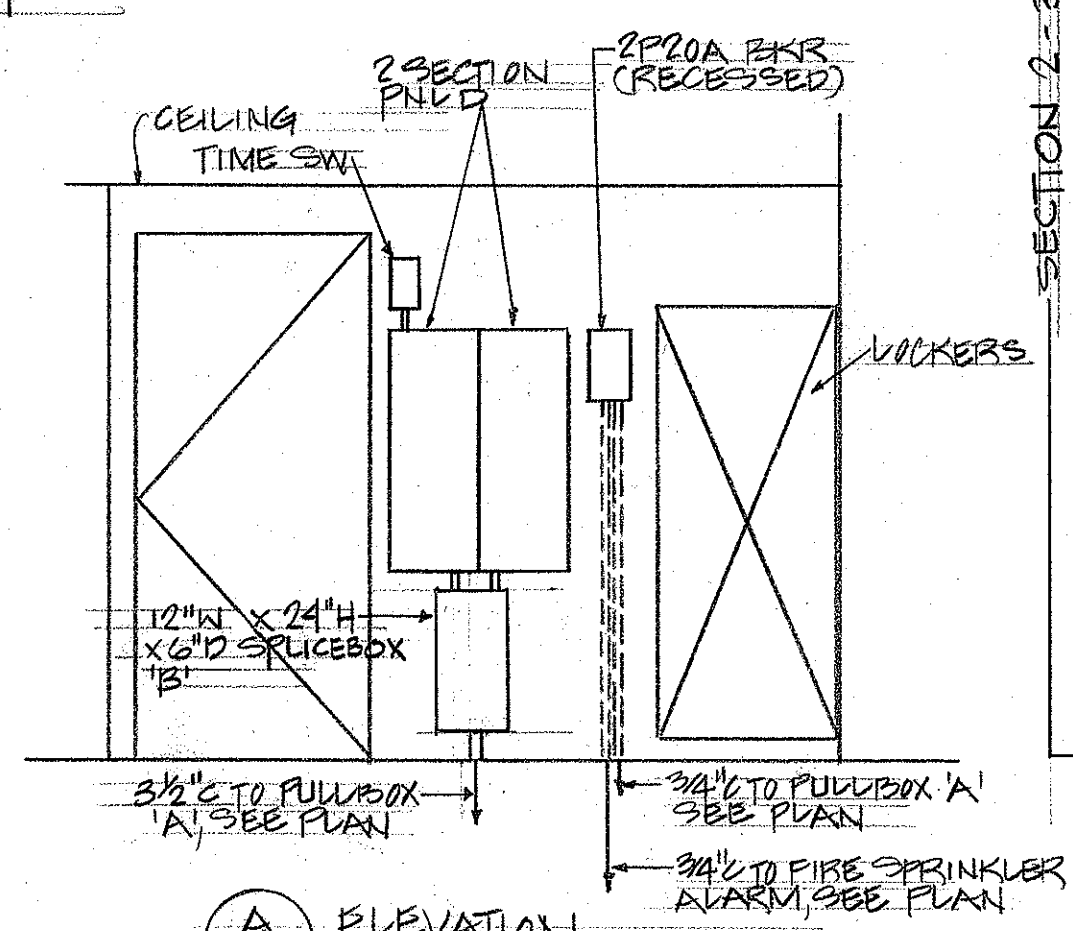
31,33,35	3P60A	CUT OFF SAW	*	2.9	2.9	2.9	8
32,34,36	3P60A	RIP SAW	*	2.9	2.9	2.9	8
37,39,41	3P30A	JOINTER	*	1.3	1.3	1.3	12
38,40,42	3P30A	DRILL PRESS	*	1.3	1.3	1.3	12
43	IP20A	SPARE					
44		EWB		1.0			12
45		RECEP	GFB	1.0			
46		SPARE					
47		RECEP			1.0		12
48	IP30A	EF #4			1.2		
49,51	2P30A	EWB #1		2.3	2.3		10
50	IP20A	SPARE					
52	IP	SPACE					
53							
54							
55							
56							
57							
58							
59							
60							
* PROVIDE SPACES ONLY UNDER DED. ALT. #5				TOTALS			
				22.6 24.0 22.9			



MAINT. OFFICE AND SHOP BLDG. - LIGHTING PLAN
SCALE: 1/8" = 1'-0"



MAINT. OFFICE AND SHOP BLDG. - POWER & SIGNAL PLAN
SCALE: 1/8" = 1'-0"

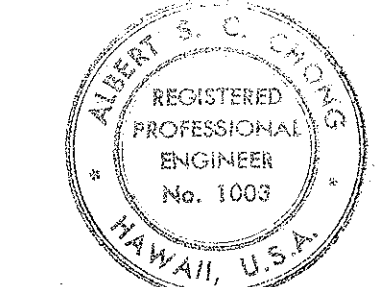


ELEVATION E2
SCALE: 1/8" = 1'-0"

NOTES:
1. UNDER DEDUCTIVE ALTERNATES #1 & 2, PROVIDE ROUGHING AS INDICATED IN (A) E4.
2. UNDER DEDUCTIVE ALTERNATE #5, OMIT ALL LIGHT FIXTURES, OUTLETS, CONNECTIONS TO EQUIPMENT, RECEPTACLES, WIRING DEVICES, CONDUITS, WIRES, AND CIRCUIT BREAKERS IN PANEL D FOR CARPENTER SHOP. PROVIDE SPACES IN PANEL D FOR CIRCUITS FOR CARPENTER SHOP. (ALL WIRING TO THE CARPENTER SHOP TO BE RUN EXPOSED IN THE FUTURE)

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

NOTE:
ALL ENCLOSURES AND WIRING TO BE PUSTIGHT. ALL WIRING IN RIGID STEEL CONDUIT WITH THREADED CONNECTIONS.



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Albert S. C. Chong
Albert S. C. Chong, P.E.

MAINTENANCE OFFICE & SHOP BLDG.

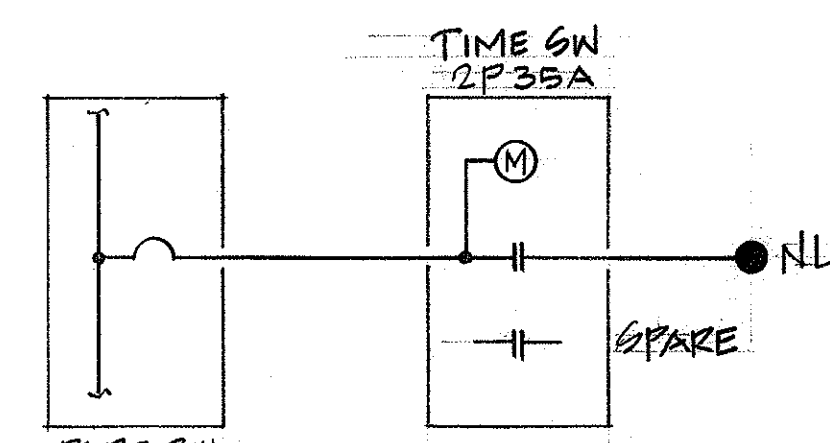
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAINTENANCE BLDG., PANEL SCHEDULE

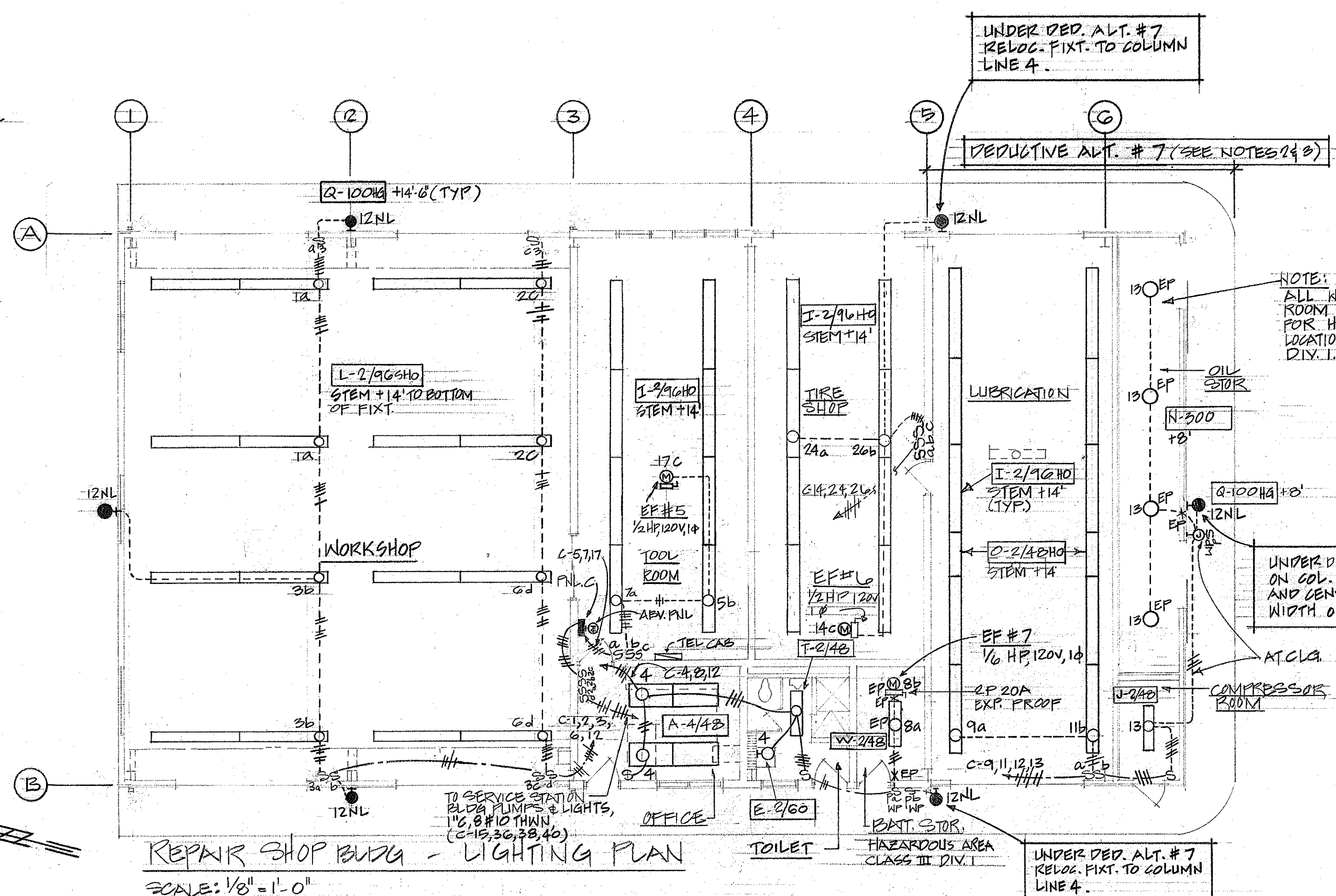
MAUI DISTRICT BASEYARD PHASE II
KAHULUI MAUI HAWAII

PROJECT NO. HWY-M-01-75
NISHIMURA AND OIKI ENGINEERS JAN. 1977

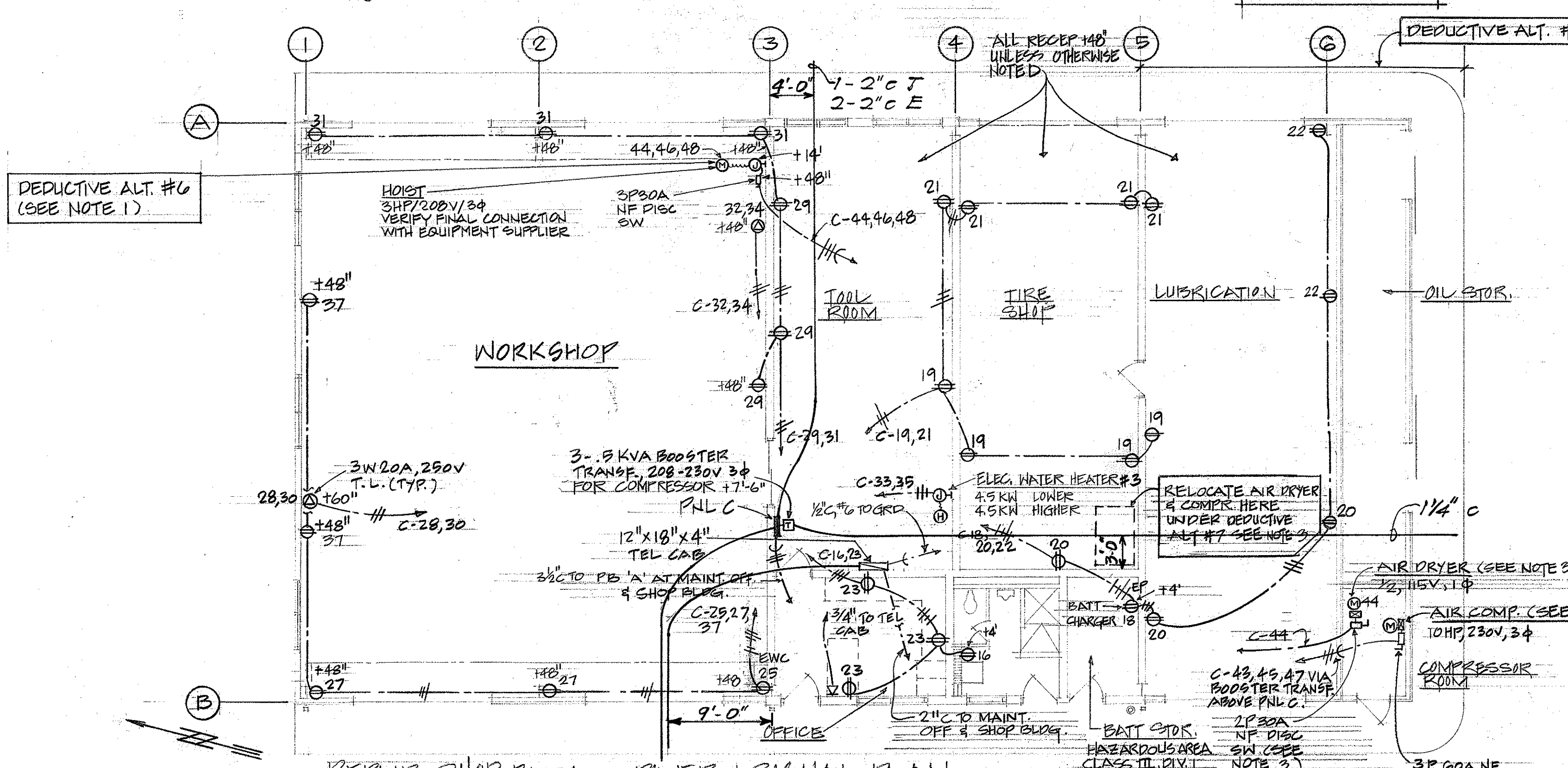
SHEET No. E-2 OF 4 SHEETS



TYP. N. L. CONTROL DIAGRAM



REPAIR SHOP BLDG - LIGHTING PLAN
SCALE: 1/8" = 1'-0"



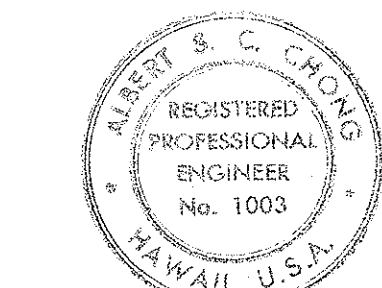
REPAIR SHOP BLDG - POWER & SIGNAL PLAN
SCALE: 1/8" = 1'-0"

NOTES:

1. UNDER DEDUCTIVE ALTERNATE #6, OMIT ALL OUTLETS, WIRING DEVICES, CONDUITS, WIRES AND CIRCUIT BREAKERS IN PANEL C FOR POWER TO HOIST.
2. UNDER DEDUCTIVE ALTERNATE #7, OMIT ALL LIGHTING FIXTURES, OUTLETS, WIRING DEVICES, CONDUITS, WIRES AND CIRCUIT BREAKERS IN PANEL C FOR LUBRICATION, OIL STOR. & COMP. RM. (WIRING TO LUBRICATION, COMP. RM. & OIL STOR. WILL BE INSTALLED EXPOSED IN THE FUTURE)
3. UNDER DEDUCTIVE ALTERNATE #7, RELOCATE AIR COMPRESSOR AND DRYER CKT. WIRING & EQUIPMENT TO TIRE SHOP.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-75	1977	30	32

PANEL C - 208Y/120 VOLTS, 3Ø 4WSN					
3P200A MAIN BKR. BREAKER I.C. 10,000A					
INDUSTRIAL-BOLTED TWO SECTIONS					
CKT. NO.	BKR.	LOAD	ØA	ØB	ØC
1	IP20A	LTS	1.9		
2			1.9		
3				1.9	
4				1.0	
5					1.0
6					1.9
7			1.0		
8		& E.F. NO. 7	1.1		
9				1.4	
10				0.6	
11		NL			0.7
12			1.3		
13			1.2		
14	IP30A	EXH FAN NO. 6			
15	IP20A	LTS - SERVICE STATION		0.5	
16		RECEP GFB		1.0	
17	IP30A	EXH FAN NO. 5			1.2
18	IP20A	BATTERY CHARGER			1.0
19		RECEP	1.0		
20			1.0		
21				1.0	
22				1.0	
23					1.0
24		LTS			1.0
25		RECEP	1.0		
26		LTS	1.0		
27		RECEP			1.0
28,30	2P20A	SPECIAL PURPOSE OUTLET		1.0	1.0
29	IP20A	RECEP			1.0
31	IP20A	RECEP	1.0		
32,34	2P20A	SPECIAL PURPOSE OUTLET	1.0	1.0	
33,35	2P30A	EXH NO. 3		2.3	2.3
36	IP20A	GAS PUMP			0.9
37	IP20A	RECEP	1.0		
38	IP20A	GAS PUMP	0.9		
39	IP20A	SPARE			
40	IP20A	GAS PUMP		0.9	
41	IP20A	SPARE			
42	IP30A	AIR DRYER			1.2
43,45,47	3P70A	COMPRESSOR	3.4	3.4	3.4
44,46,48	3P30A	HOIST	1.3	1.3	1.3
49	IP	SPACE			
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
TOTALS			20.3	19.3	20.3



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OR UNDER MY SUPERVISION
Albert S. Chong
Albert S. C. Chong, PE

REPAIR SHOP BLDG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REPAIR SHOP BLDG., PANEL SCHED, NIGHT
LIGHT DIAGRAM

MAUI DISTRICT BASEYARD PHASE II

KAHULUI MAUI HAWAII

PROJECT NO. HWY-M-01-75

NISHIMURA AND OKI ENGINEERS JAN. 1977

SHEET No. E-3 OF 4 SHEETS

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____

