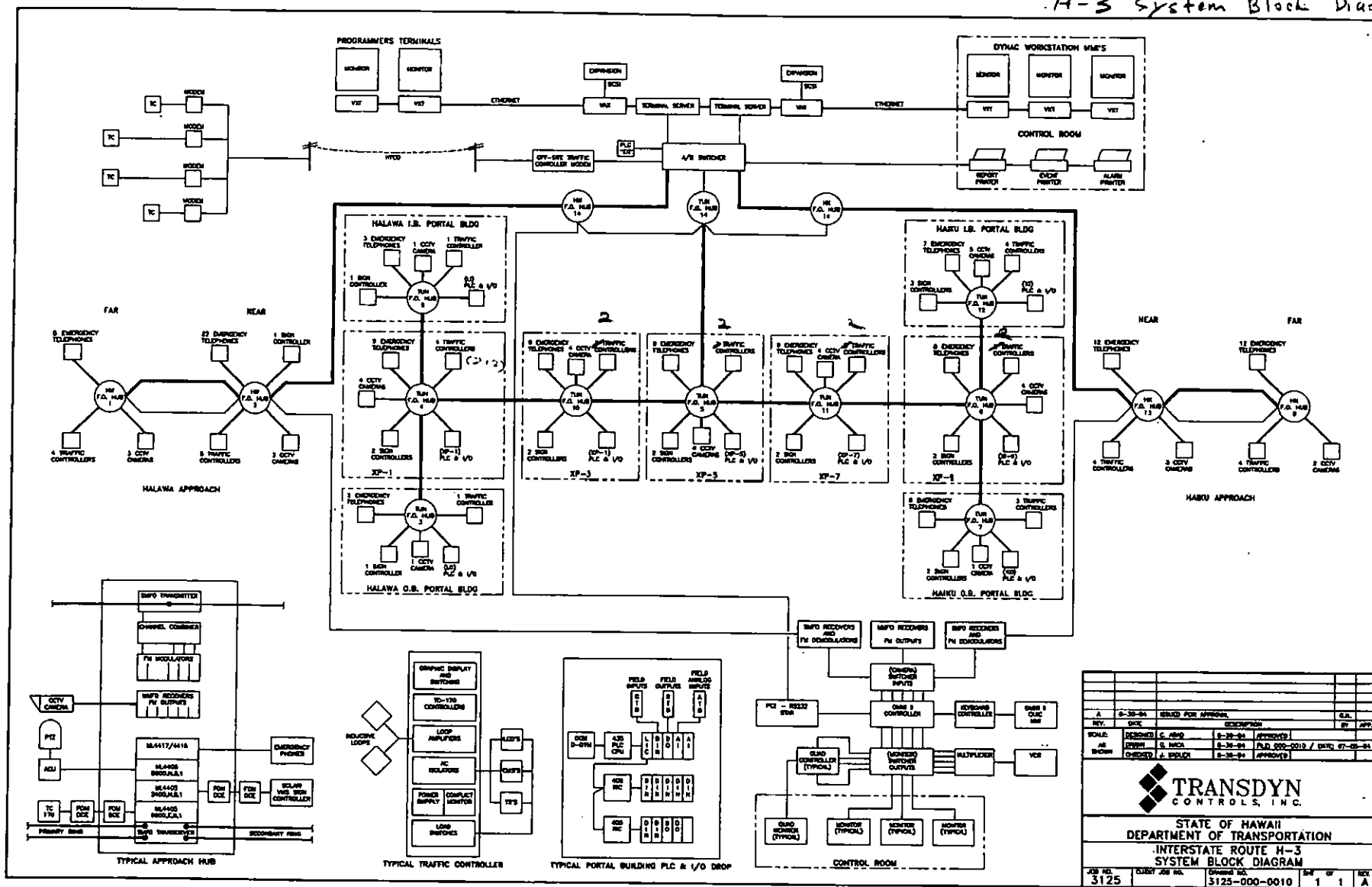


Exhibit C
H-3 AS-BUILT DRAWINGS FOR
EXISTING OPCOM
COMMUNICATION SYSTEM

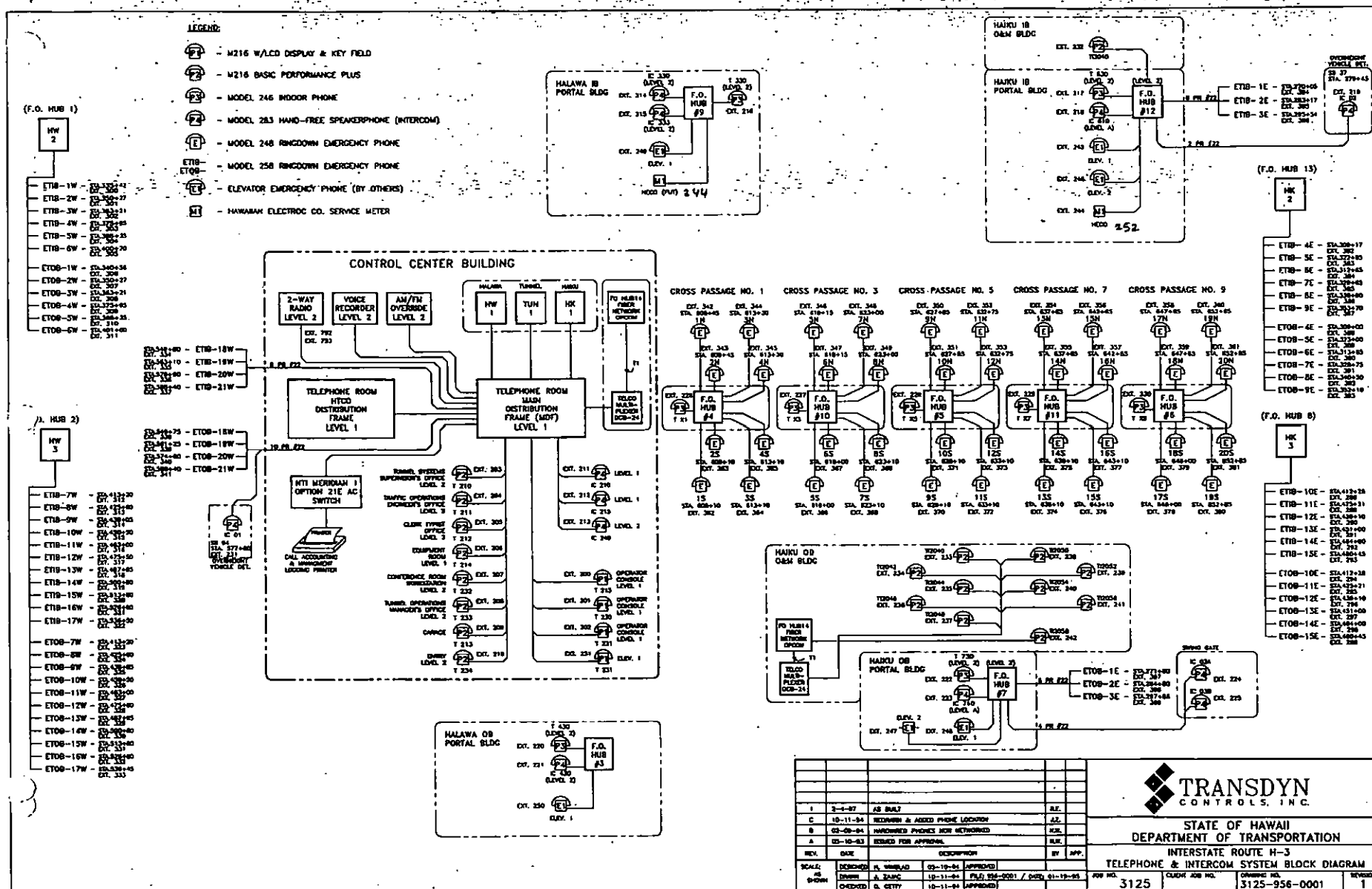
H-3 Legend

ABBREVIATIONS		FIRE ZONE IDENTIFICATION SYSTEM		SYMBOL		ABBR.		DESCRIPTION		SYMBOL		ABBR.		DESCRIPTION		SYMBOL		ABBR.		DESCRIPTION	
AF	ABOVE FINISHED FLOOR	1X	BOX NUMBER (ALPHABETICAL)	NO	SMOKE DETECTOR	FD	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
BL	BELOW	FL	FLOOR LEVEL (ALPHABETICAL)	JA	JUNCTION BOX CEILING MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CB	CONTROL, BULB	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CD	CARBON MONOXIDE DETECTOR	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
COM	COMMUNICATIONS	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING	JB	JUNCTION BOX WALL MOUNTED	FD	FD	FIRE DETECTOR	FD	FD	NO	NO	NO	FIRE DETECTOR	FD	FD	NO	NO	NO	NO	NO
CS	CORNER	BL	BUILDING																		

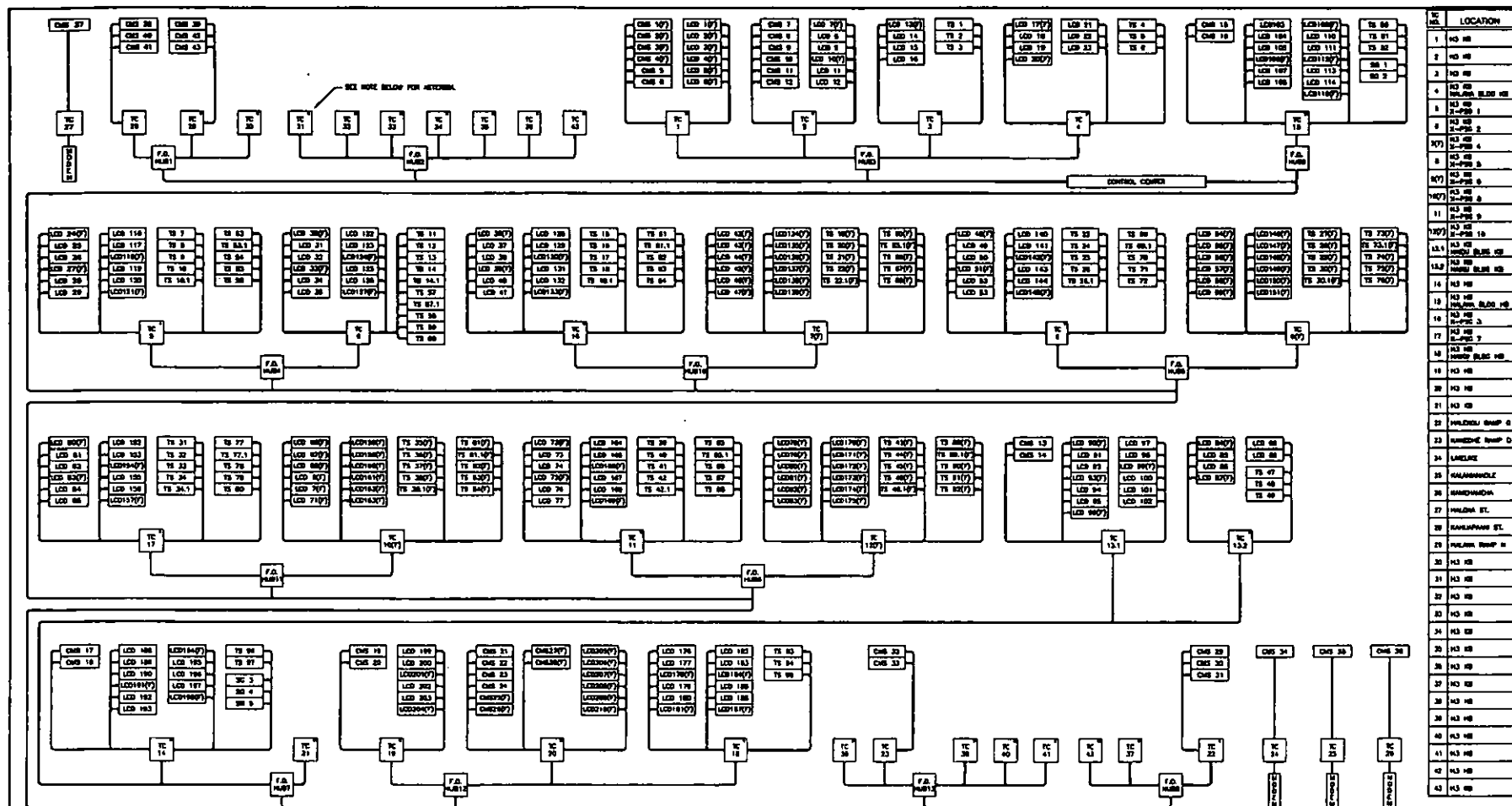
H-3 System Block Diagram



Telephone & Intercom System



Traffic Control System



NOTE:

• THESE TRAFFIC CONTROLLERS HAVE VOS.
(REFER TO DRAWING NO. 3125-965-0004)

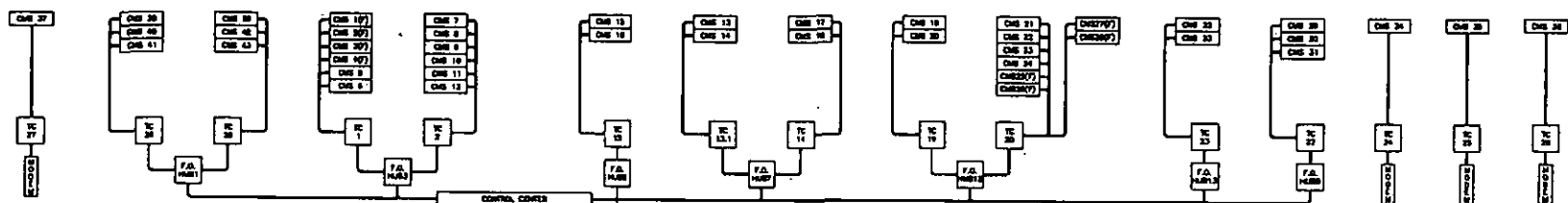
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2	12-28-82	CHECKED	S. BAKER	
3	12-28-82	APPROVED	S. BAKER	
4	12-28-82	DESIGNED	S. BAKER	
5	12-28-82	CHECKED	S. BAKER	
6	12-28-82	APPROVED	S. BAKER	

SCALE: 1" = 100'

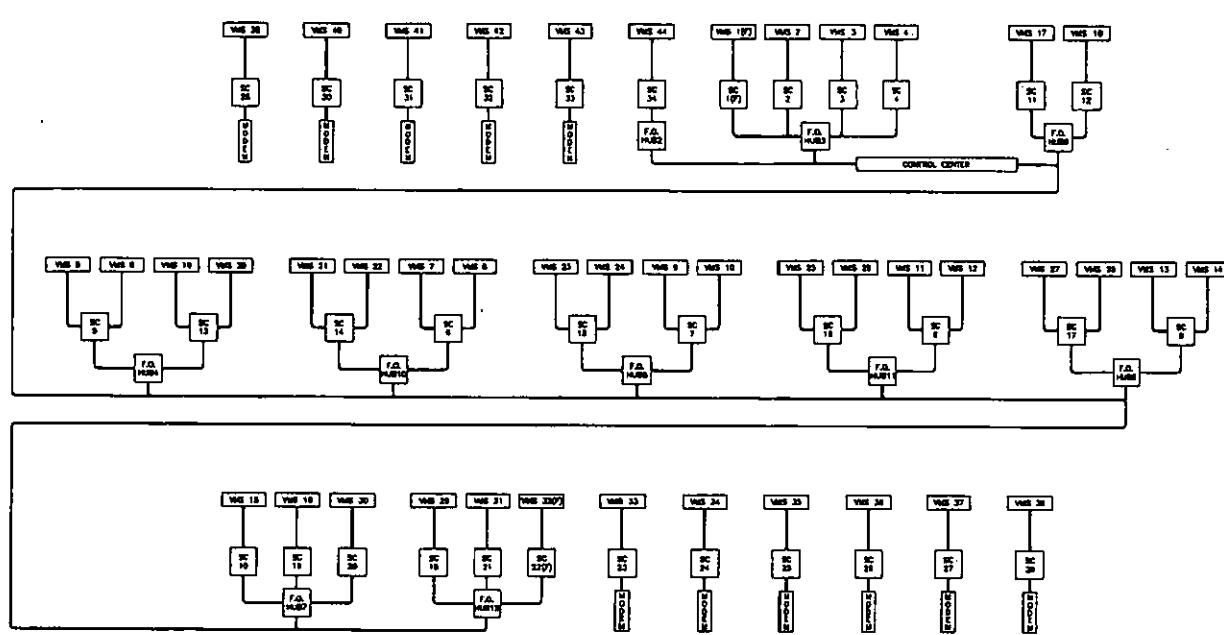
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
INTERSTATE ROUTE H-3
TRAFFIC CONTROLLER BLOCK DIAGRAM

3125 3125-965-0001

CMS system

[illegible]

VMS system



SC NO.	LOCATION	SC NO.	LOCATION
0107	H3 KB	0107	H3 KB
2	H3 KB	2	H3 KB
3	H3 KB	3	H3 KB
4	H3 KB	4	H3 KB
5	1-PSC 2 KB	5 & 6	H3 KB
6	1-PSC 4 KB	7 & 8	H3 KB
7	1-PSC 6 KB	9 & 10	H3 KB
8	1-PSC 8 KB	11 & 12	H3 KB
9	1-PSC 10 KB	13 & 14	H3 KB
10	H3 KB	15	H3 KB
11	H3 KB	17	H3 KB
12	H3 KB	18	H3 KB
13	1-PSC 2 KB	18 & 20	H3 KB
14	1-PSC 4 KB	21 & 22	H3 KB
15	1-PSC 6 KB	23 & 24	H3 KB
16	1-PSC 8 KB	25 & 26	H3 KB
17	1-PSC 10 KB	27 & 28	H3 KB
18	H3 KB	29	H3 KB
19	H3 KB	18	H3 KB
20	H3 KB	20	H3 KB
21	H3 KB	21	H3 KB
2207	H3 KB	2207	H3 KB
23	KAMAHAMUA	23	KAMAHAMUA
24	KAMAHAMUA	24	KAMAHAMUA
25	H3 KB	25	H3 KB
26	KAMAHAMUA	26	KAMAHAMUA
27	KAMAHAMUA	27	KAMAHAMUA
28	KAMAHAMUA	28	KAMAHAMUA
29	KAMAHAMUA	29	KAMAHAMUA
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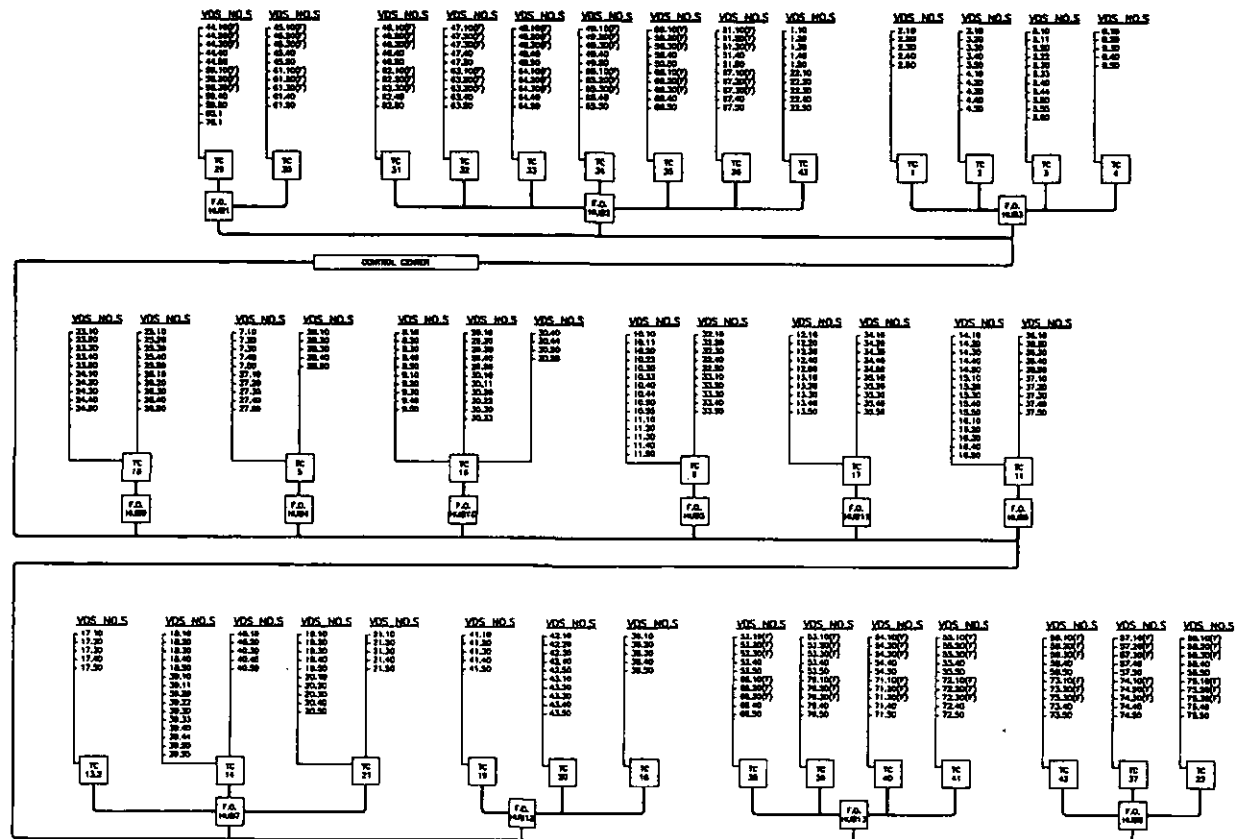
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9	0-10-85	CLARIFICATION CHANGES			
A	12-20-85	REWORK FOR APPROVAL			
REV.	DATE	DESCRIPTION	BY	APP.	
10	12-20-85	ADDITIONAL CHANGES			
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13	12-20-85	ADDITIONAL CHANGES			
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99	12-20-85	ADDITIONAL CHANGES			
100	12-20-85	ADDITIONAL CHANGES			



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
INTERSTATE ROUTE H-3
VMS BLOCK DIAGRAM

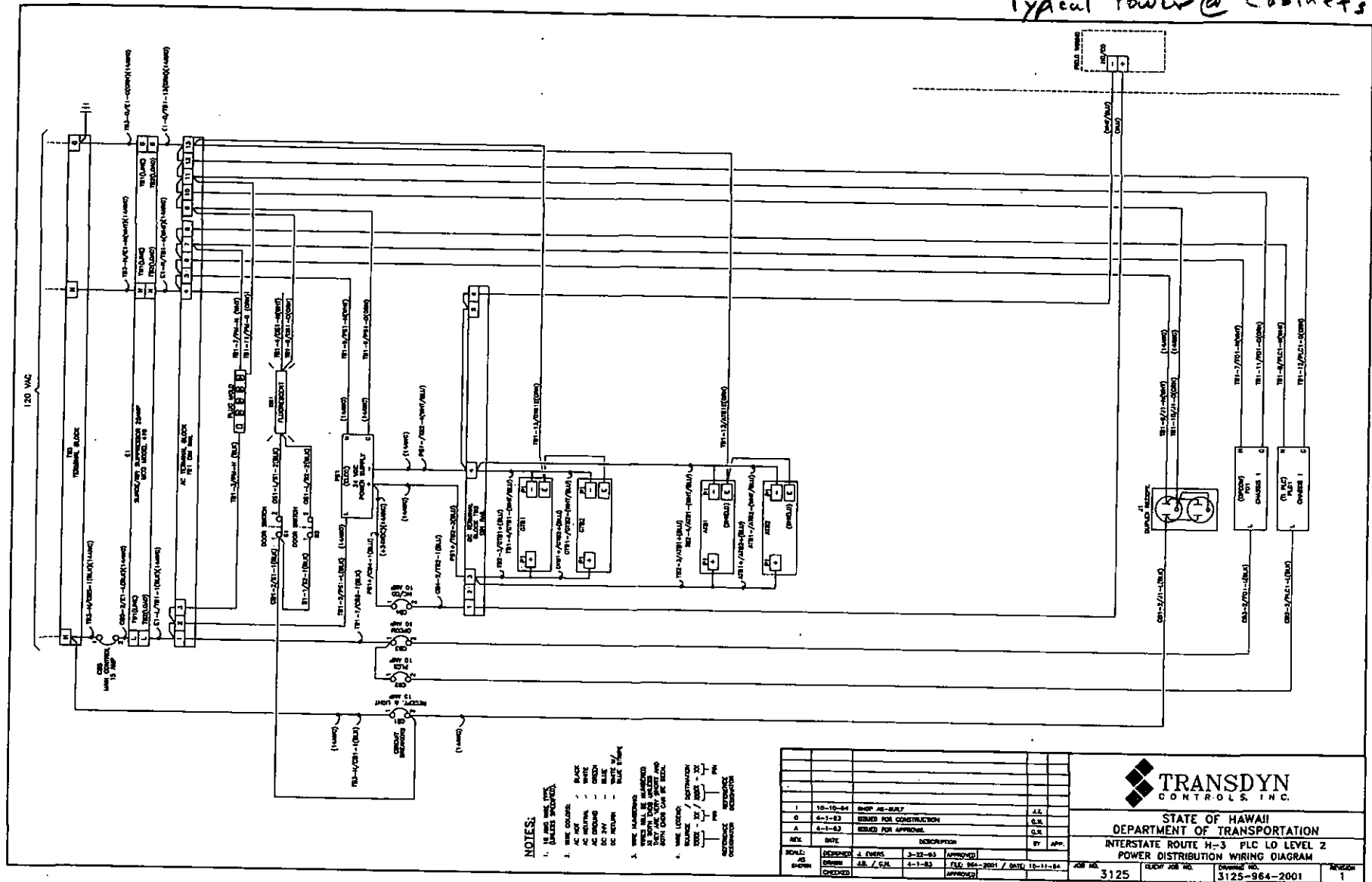
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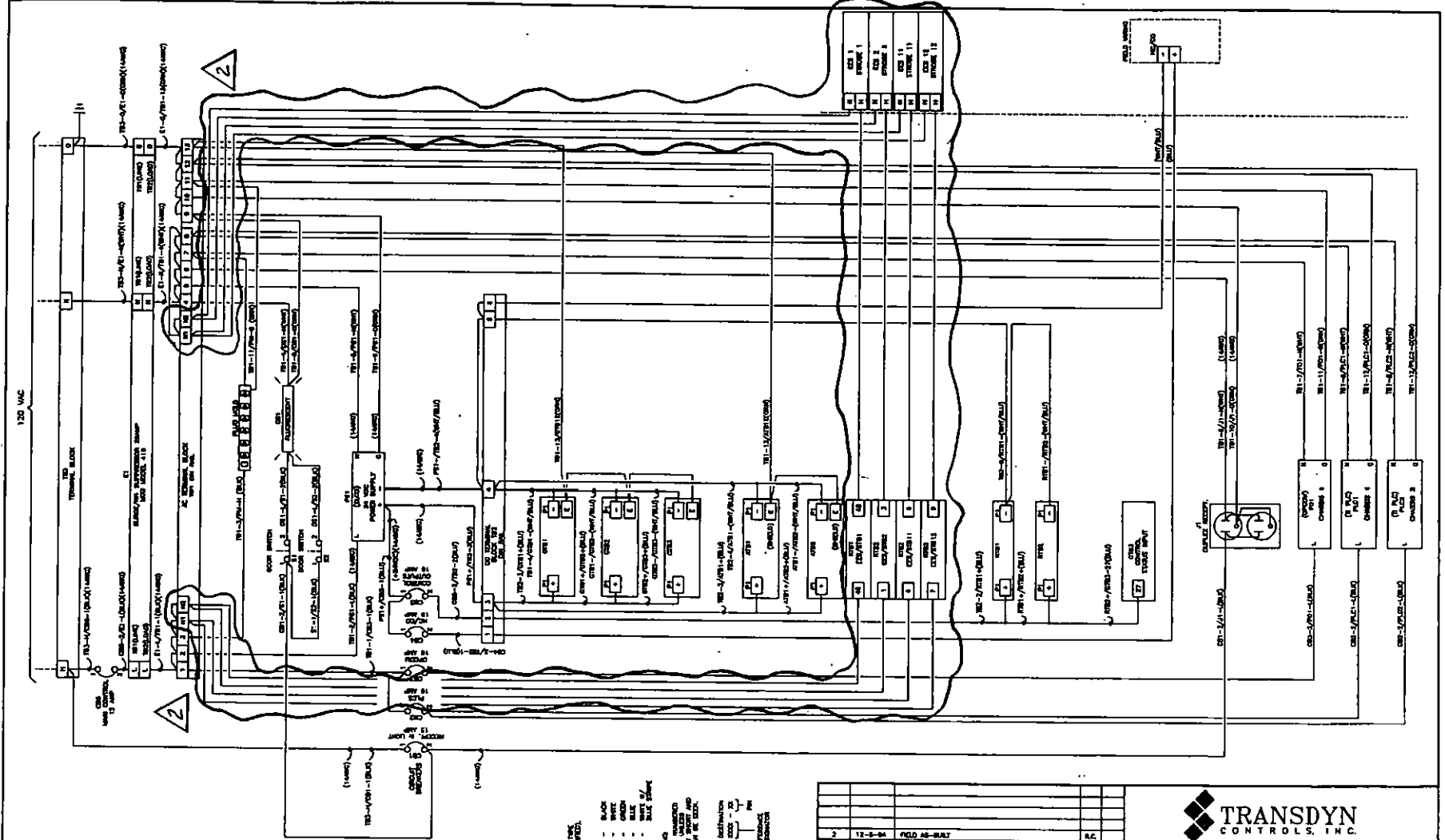
Vehicle Detection System



				 TRANSODYN CONTROLS, INC.	
B 5-15-83 CLERKSHIP COVERED				STATE OF HAWAII DEPARTMENT OF TRANSPORTATION	
A 12-28-83 ISSUED FOR APPROVAL				INTERSTATE ROUTE H-3 VDS BLOCK DIAGRAM	
REV.	DATE	DESCRIPTION	BY	APP.	
1	5-15-83	DESIGNED	E. HENRY	12-28-83	APPROVED
2	12-28-83	CHECKED	E. HENRY	12-28-83	APPROVED
				228 NO.	3125
				CURT 228 NO.	3125-965-0004
				REVISION	B

Typical Power @ Cabinets





NOTES:

1. 120 VAC
2. 120 VAC
3. 120 VAC
4. 120 VAC
5. 120 VAC
6. 120 VAC
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99. 120 VAC
100. 120 VAC

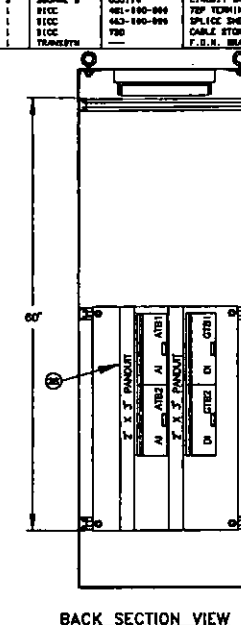
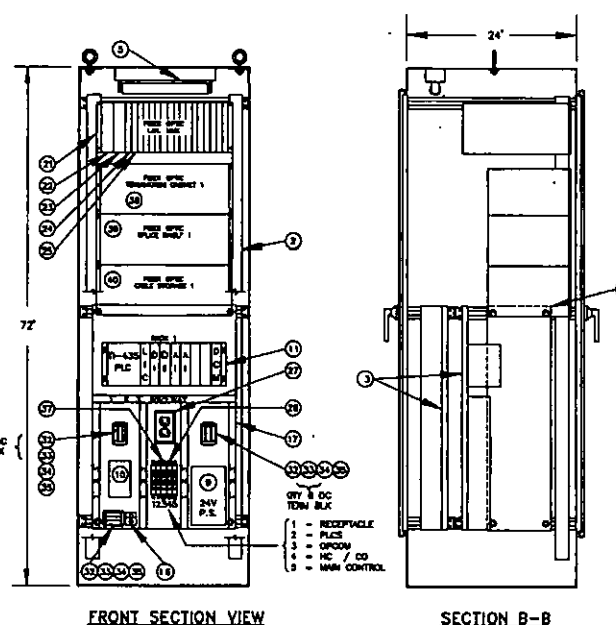
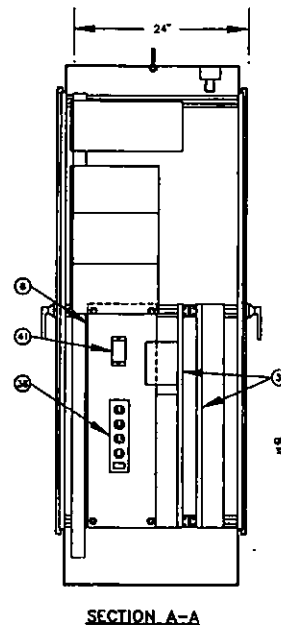
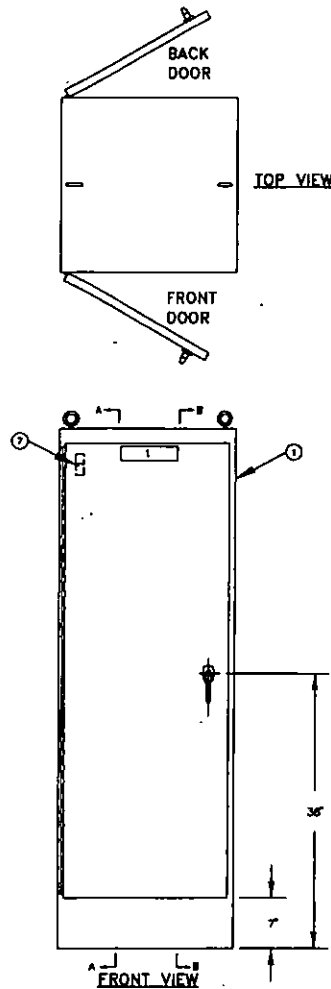
REV.	DATE	DESCRIPTION	BY	APP.
1	12-8-84	FIELD AS-BUILT		
2	10-10-84	FIELD AS-BUILT		
3	4-1-83	ISSUED FOR CONSTRUCTION		
4	4-1-83	ISSUED FOR APPROVAL		

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION INTERSTATE ROUTE H-3 CROSS PASSAGE - X1 POWER DISTRIBUTION WIRING DIAGRAM	
3125	3125-964-2005
2	2

EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE							LOCATION	
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	3RD LINE DESCRIPTION	TYPE	UNIT	SIZE	
1	1	MAIN DISTRIBUTION	FEED OPTIC BUS 3	LINE 2	PLC	1/2"	1" x 1"	
2								
3								
4								
5								

ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1	REFMAN	A-7524475A	ENCLOSURE, 20"X24"X24", NOM. 12"
2	1	REFMAN	A-7524475B	BACK HTS. RACKS
3	1	REFMAN	A-7524475C	"BACKPACKED, HALF"
4	1	REFMAN	A-7524475D	FLUORESCENT LIGHT STRIP, 18" LAMP
5	1	REFMAN	A-7524475E	3/4"X1/2"X1/2" 1/2" X 1/2"
6	1	REFMAN	A-7524475F	3/4"X1/2"X1/2" 1/2" X 1/2"
7	1	REFMAN	A-7524475G	3/4"X1/2"X1/2" 1/2" X 1/2"
8	1	REFMAN	A-7524475H	3/4"X1/2"X1/2" 1/2" X 1/2"
9	1	REFMAN	A-7524475I	3/4"X1/2"X1/2" 1/2" X 1/2"
10	1	REFMAN	A-7524475J	3/4"X1/2"X1/2" 1/2" X 1/2"
11	1	REFMAN	A-7524475K	3/4"X1/2"X1/2" 1/2" X 1/2"
12	1	REFMAN	A-7524475L	3/4"X1/2"X1/2" 1/2" X 1/2"
13	1	REFMAN	A-7524475M	3/4"X1/2"X1/2" 1/2" X 1/2"
14	1	REFMAN	A-7524475N	3/4"X1/2"X1/2" 1/2" X 1/2"
15	1	REFMAN	A-7524475O	3/4"X1/2"X1/2" 1/2" X 1/2"
16	1	REFMAN	A-7524475P	3/4"X1/2"X1/2" 1/2" X 1/2"
17	1	REFMAN	A-7524475Q	3/4"X1/2"X1/2" 1/2" X 1/2"
18	1	REFMAN	A-7524475R	3/4"X1/2"X1/2" 1/2" X 1/2"
19	1	REFMAN	A-7524475S	3/4"X1/2"X1/2" 1/2" X 1/2"
20	1	REFMAN	A-7524475T	3/4"X1/2"X1/2" 1/2" X 1/2"
21	1	REFMAN	A-7524475U	3/4"X1/2"X1/2" 1/2" X 1/2"
22	1	REFMAN	A-7524475V	3/4"X1/2"X1/2" 1/2" X 1/2"
23	1	REFMAN	A-7524475W	3/4"X1/2"X1/2" 1/2" X 1/2"
24	1	REFMAN	A-7524475X	3/4"X1/2"X1/2" 1/2" X 1/2"
25	1	REFMAN	A-7524475Y	3/4"X1/2"X1/2" 1/2" X 1/2"
26	1	REFMAN	A-7524475Z	3/4"X1/2"X1/2" 1/2" X 1/2"
27	1	REFMAN	A-7524475AA	3/4"X1/2"X1/2" 1/2" X 1/2"
28	1	REFMAN	A-7524475AB	3/4"X1/2"X1/2" 1/2" X 1/2"
29	1	REFMAN	A-7524475AC	3/4"X1/2"X1/2" 1/2" X 1/2"
30	1	REFMAN	A-7524475AD	3/4"X1/2"X1/2" 1/2" X 1/2"
31	1	REFMAN	A-7524475AE	3/4"X1/2"X1/2" 1/2" X 1/2"
32	1	REFMAN	A-7524475AF	3/4"X1/2"X1/2" 1/2" X 1/2"
33	1	REFMAN	A-7524475AG	3/4"X1/2"X1/2" 1/2" X 1/2"
34	1	REFMAN	A-7524475AH	3/4"X1/2"X1/2" 1/2" X 1/2"
35	1	REFMAN	A-7524475AI	3/4"X1/2"X1/2" 1/2" X 1/2"
36	1	REFMAN	A-7524475AJ	3/4"X1/2"X1/2" 1/2" X 1/2"
37	1	REFMAN	A-7524475AK	3/4"X1/2"X1/2" 1/2" X 1/2"
38	1	REFMAN	A-7524475AL	3/4"X1/2"X1/2" 1/2" X 1/2"
39	1	REFMAN	A-7524475AM	3/4"X1/2"X1/2" 1/2" X 1/2"
40	1	REFMAN	A-7524475AN	3/4"X1/2"X1/2" 1/2" X 1/2"
41	1	REFMAN	A-7524475AO	3/4"X1/2"X1/2" 1/2" X 1/2"

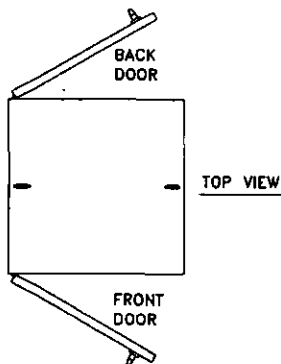


NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2001

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/94	SHOP AS-BUILT	J.Z.	C.H.A.			
B	5/27/93	SPLICE CABINETS	G.J.	J.E.			
A	3/31/93	8 AI MODULES	G.J.	J.E.			
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE

TRANS-DYN H-3 TRANS-KOOLAU TUNNEL TI PLC & OPCOM EQUIPMENT ELEVATION PLC-LO LEV2	JOB NO. 3125 CLIENT JOB NO. SCALE 1/16" = 1" SHEET 1 OF 1 DRAWING NO. 3125-964-3001
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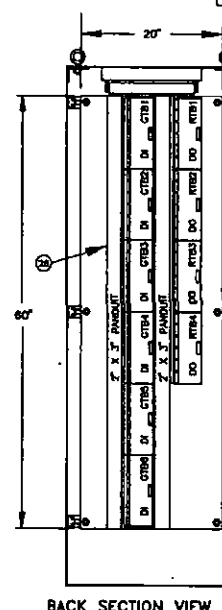
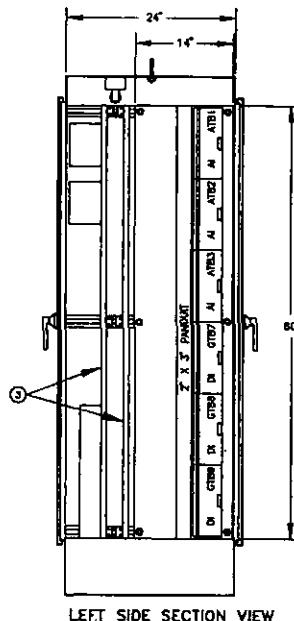
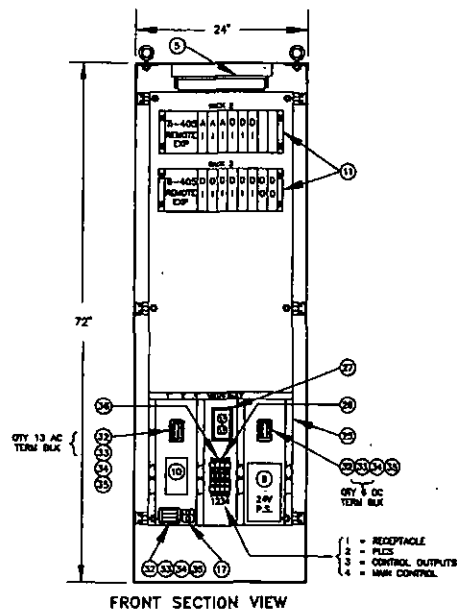
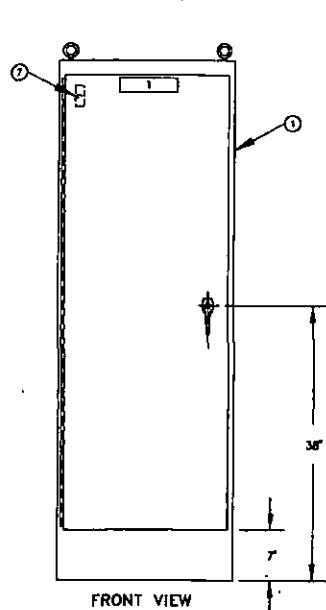


EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	NAME PLATE	ALUM. 3	1/4" X 2 1/2"	
2					
3					
4					
5					

LOCATION	
NAME PLATE	ALUM. 3

ITEM	QTY	REV.	PART NO.	DESCRIPTION
1	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
2	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
3	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
4	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
5	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
6	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
7	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
8	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
9	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
10	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
11	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
12	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
13	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
14	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
15	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
16	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
17	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
18	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
19	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
20	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
21	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
22	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
23	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
24	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
25	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
26	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
27	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
28	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
29	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
30	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
31	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
32	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
33	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
34	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
35	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
36	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
37	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
38	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
39	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
40	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
41	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
42	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
43	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
44	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
45	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
46	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
47	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
48	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
49	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
50	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
51	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
52	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
53	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
54	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
55	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
56	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
57	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
58	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
59	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
60	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
61	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
62	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
63	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
64	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
65	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
66	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
67	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
68	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
69	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
70	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
71	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
72	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
73	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
74	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
75	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
76	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
77	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
78	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
79	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
80	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
81	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
82	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
83	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
84	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
85	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
86	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
87	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
88	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
89	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
90	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
91	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
92	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
93	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
94	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
95	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
96	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
97	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
98	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
99	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"
100	1		A-7242-010A	"HOLD-ON", 70"X24"X12", NEMA 1B"



NOTES

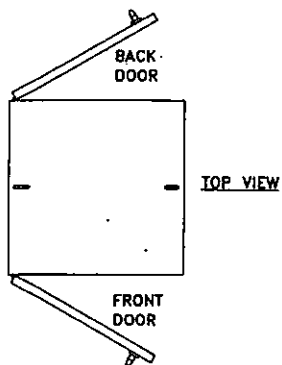
- FOR 11 MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAMS REFER TO DRAWINGS: 3125-964-2011(KO LEV3) 3125-964-2002(KO LEV3)

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/94	SHOP AS-BUILT	J.L.	CH.A.			
8	5/27/93	CABINET SIZE	G.N.	J.E.			
A	3/31/93	8 AI MODULES	G.N.	J.E.			
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
					3-3-1993	964-3002	01-19-95



H-3 TRANS-KOOLAU TUNNEL
11 PLC
EQUIPMENT ELEVATION
PLC-LO LEV3

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/16" = 1"
SHEET NO.	1 OF 1
DRAWING NO.	3125-964-3002

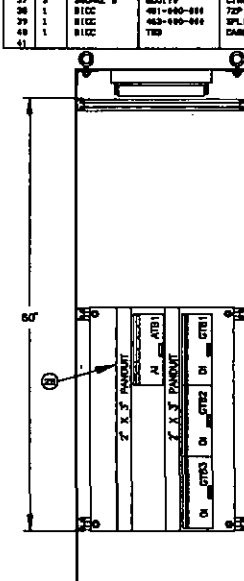
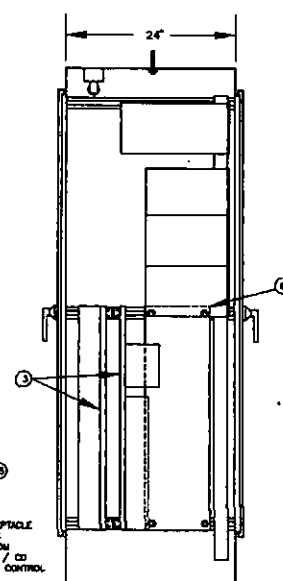
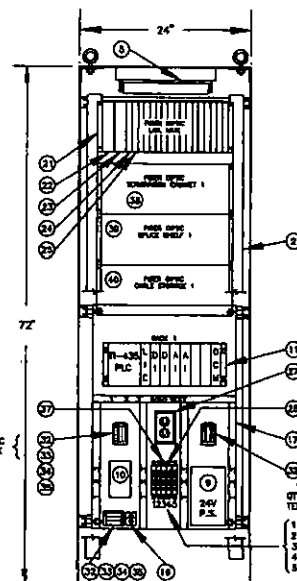
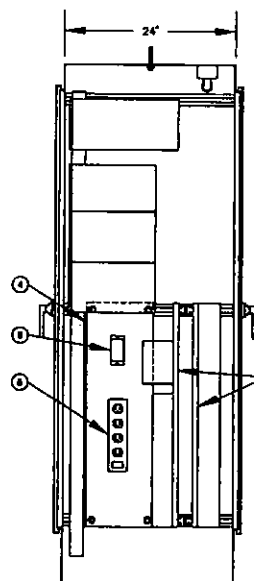
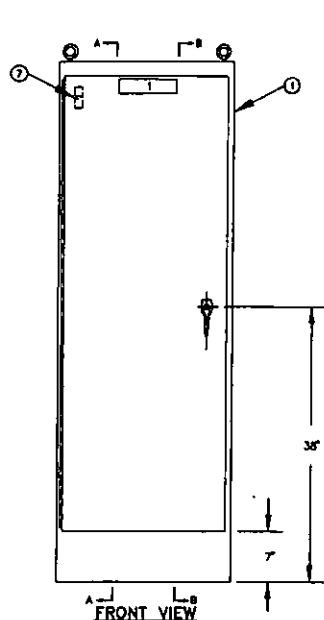


EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE						
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	3RD LINE DESCRIPTION	TYPE	UNIT
1	1	NAMEPLATE	PLC	PLC	PLC	PLC
2	1	NAMEPLATE	PLC	PLC	PLC	PLC
3	1	NAMEPLATE	PLC	PLC	PLC	PLC
4	1	NAMEPLATE	PLC	PLC	PLC	PLC
5	1	NAMEPLATE	PLC	PLC	PLC	PLC

LOCATION	
1	NAMEPLATE
2	NAMEPLATE
3	NAMEPLATE
4	NAMEPLATE
5	NAMEPLATE

ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1	REFMAN	A-72240475A	ENCLOSURE, 72"X24"X24", NOMA 12"
2	1	REFMAN	A-72240475B	BACK HTS. MOUNT
3	1	REFMAN	A-72240475C	BACK HTS. MOUNT
4	1	REFMAN	A-72240475D	2160 POWER, 1/2" X 31"
5	1	REFMAN	A-72240475E	BLACKOUT LIGHT STRIP, 18" LAMP
6	1	REFMAN	A-72240475F	F.O.B. BRACKET
7	1	REFMAN	A-72240475G	2000 SWITCH
8	1	REFMAN	A-72240475H	4-PLUG OUTLET STRIP
9	1	REFMAN	A-72240475I	120V POWER SUPPLY, 24V, 20A WATT
10	1	REFMAN	A-72240475J	SLIDE-OUT SUPPRESSOR
11	1	REFMAN	A-72240475K	PLC CPU
12	1	REFMAN	A-72240475L	DATA COMMUNICATIONS SERIAL
13	1	REFMAN	A-72240475M	400 BK
14	1	REFMAN	A-72240475N	400 BK
15	1	REFMAN	A-72240475O	400 BK
16	1	REFMAN	A-72240475P	400 BK
17	1	REFMAN	A-72240475Q	400 BK
18	1	REFMAN	A-72240475R	400 BK
19	1	REFMAN	A-72240475S	400 BK
20	1	REFMAN	A-72240475T	400 BK
21	1	REFMAN	A-72240475U	400 BK
22	1	REFMAN	A-72240475V	400 BK
23	1	REFMAN	A-72240475W	400 BK
24	1	REFMAN	A-72240475X	400 BK
25	1	REFMAN	A-72240475Y	400 BK
26	1	REFMAN	A-72240475Z	400 BK
27	1	REFMAN	A-72240475A	400 BK
28	1	REFMAN	A-72240475B	400 BK
29	1	REFMAN	A-72240475C	400 BK
30	1	REFMAN	A-72240475D	400 BK
31	1	REFMAN	A-72240475E	400 BK
32	1	REFMAN	A-72240475F	400 BK
33	1	REFMAN	A-72240475G	400 BK
34	1	REFMAN	A-72240475H	400 BK
35	1	REFMAN	A-72240475I	400 BK
36	1	REFMAN	A-72240475J	400 BK
37	1	REFMAN	A-72240475K	400 BK
38	1	REFMAN	A-72240475L	400 BK
39	1	REFMAN	A-72240475M	400 BK
40	1	REFMAN	A-72240475N	400 BK
41	1	REFMAN	A-72240475O	400 BK



NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2003

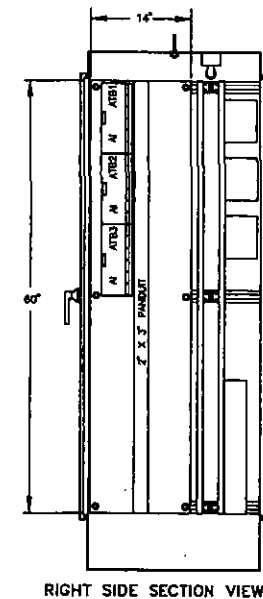
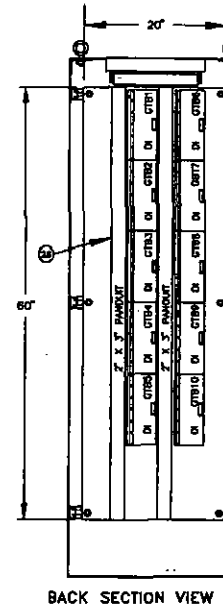
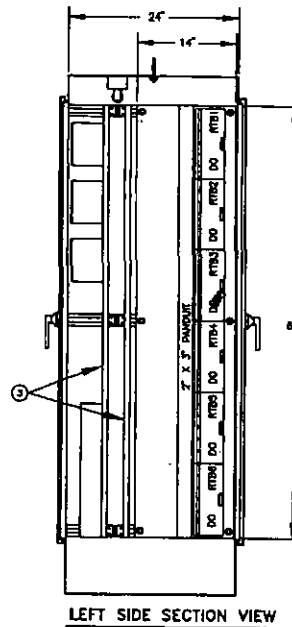
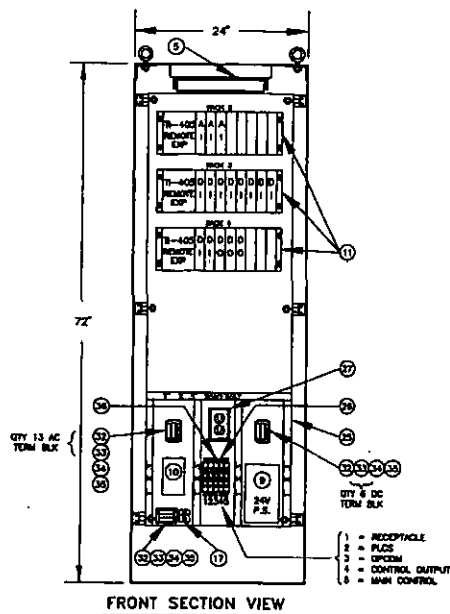
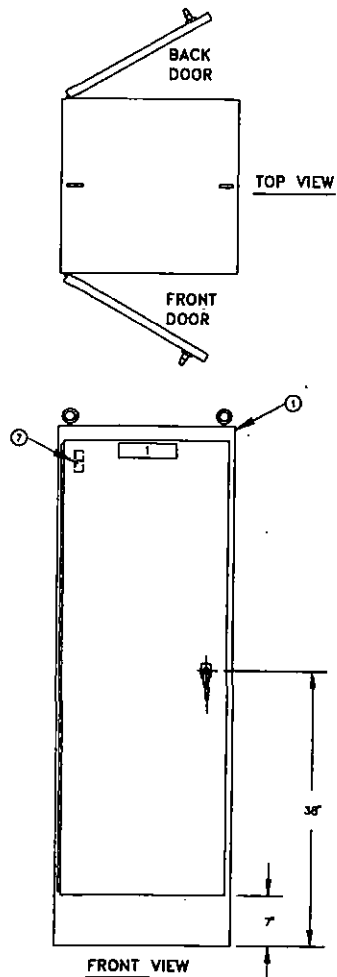
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE
1	10/5/94	SHOP AS-BUILT	J.Z. CHA.			
B	5/27/93	SPLICE CABINETS	D.N. J.E.			
A	3/31/93	B AI MODULES	G.N. J.E.			
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE
					3-4-1993	FILE: 964-3003 / DATE: 01-19-95



H-3 TRANS-KOOLAU TUNNEL
PLC & OPCOM
EQUIPMENT ELEVATION
PLC-LI LEV2

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/16" = 1"
DRAWING NO.	3125-964-3003
SHEET	1 OF 1

EQUIPMENT ELEVATION



NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	NAMEPLATE	LINE 3	ALUMINUM	1/2" X 3"
2					
3					
4					
5					

LOCATION	
1	FRONT DOOR
2	
3	
4	
5	

BILL OF MATERIAL				
ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1	REF 1	A-789467824	ENCLOSURE, 72" X 24" X 12", HEAVY 12"
2	2	REF 2	A-789467824	"BACKPANEL, FULL"
3	2	REF 3	A-789467824	"FRONTPANEL, FULL"
4	1	REF 4	A-789467824	FLUORESCENT LIGHT STRIP, 18" LAMP
5	2	REF 5	A-789467824	DOOR SWITCH
6	1	REF 6	A-789467824	DOOR SWITCH
7	1	REF 7	A-789467824	DOOR SWITCH
8	1	REF 8	A-789467824	DOOR SWITCH
9	1	REF 9	A-789467824	DOOR SWITCH
10	1	REF 10	A-789467824	DOOR SWITCH
11	1	REF 11	A-789467824	DOOR SWITCH
12	1	REF 12	A-789467824	DOOR SWITCH
13	1	REF 13	A-789467824	DOOR SWITCH
14	1	REF 14	A-789467824	DOOR SWITCH
15	1	REF 15	A-789467824	DOOR SWITCH
16	1	REF 16	A-789467824	DOOR SWITCH
17	1	REF 17	A-789467824	DOOR SWITCH
18	1	REF 18	A-789467824	DOOR SWITCH
19	1	REF 19	A-789467824	DOOR SWITCH
20	1	REF 20	A-789467824	DOOR SWITCH
21	1	REF 21	A-789467824	DOOR SWITCH
22	1	REF 22	A-789467824	DOOR SWITCH
23	1	REF 23	A-789467824	DOOR SWITCH
24	1	REF 24	A-789467824	DOOR SWITCH
25	1	REF 25	A-789467824	DOOR SWITCH
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29	1	REF 29	A-789467824	DOOR SWITCH
30	1	REF 30	A-789467824	DOOR SWITCH
31	1	REF 31	A-789467824	DOOR SWITCH
32	1	REF 32	A-789467824	DOOR SWITCH
33	1	REF 33	A-789467824	DOOR SWITCH
34	1	REF 34	A-789467824	DOOR SWITCH
35	1	REF 35	A-789467824	DOOR SWITCH
36	1	REF 36	A-789467824	DOOR SWITCH
37	1	REF 37	A-789467824	DOOR SWITCH
38	1	REF 38	A-789467824	DOOR SWITCH
39	1	REF 39	A-789467824	DOOR SWITCH
40	1	REF 40	A-789467824	DOOR SWITCH
41	1	REF 41	A-789467824	DOOR SWITCH
42	1	REF 42	A-789467824	DOOR SWITCH
43	1	REF 43	A-789467824	DOOR SWITCH
44	1	REF 44	A-789467824	DOOR SWITCH
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49	1	REF 49	A-789467824	DOOR SWITCH
50	1	REF 50	A-789467824	DOOR SWITCH
51	1	REF 51	A-789467824	DOOR SWITCH
52	1	REF 52	A-789467824	DOOR SWITCH
53	1	REF 53	A-789467824	DOOR SWITCH
54	1	REF 54	A-789467824	DOOR SWITCH
55	1	REF 55	A-789467824	DOOR SWITCH
56	1	REF 56	A-789467824	DOOR SWITCH
57	1	REF 57	A-789467824	DOOR SWITCH
58	1	REF 58	A-789467824	DOOR SWITCH
59	1	REF 59	A-789467824	DOOR SWITCH
60	1	REF 60	A-789467824	DOOR SWITCH
61	1	REF 61	A-789467824	DOOR SWITCH
62	1	REF 62	A-789467824	DOOR SWITCH
63	1	REF 63	A-789467824	DOOR SWITCH
64	1	REF 64	A-789467824	DOOR SWITCH
65	1	REF 65	A-789467824	DOOR SWITCH
66	1	REF 66	A-789467824	DOOR SWITCH
67	1	REF 67	A-789467824	DOOR SWITCH
68	1	REF 68	A-789467824	DOOR SWITCH
69	1	REF 69	A-789467824	DOOR SWITCH
70	1	REF 70	A-789467824	DOOR SWITCH
71	1	REF 71	A-789467824	DOOR SWITCH
72	1	REF 72	A-789467824	DOOR SWITCH
73	1	REF 73	A-789467824	DOOR SWITCH
74	1	REF 74	A-789467824	DOOR SWITCH
75	1	REF 75	A-789467824	DOOR SWITCH
76	1	REF 76	A-789467824	DOOR SWITCH
77	1	REF 77	A-789467824	DOOR SWITCH
78	1	REF 78	A-789467824	DOOR SWITCH
79	1	REF 79	A-789467824	DOOR SWITCH
80	1	REF 80	A-789467824	DOOR SWITCH
81	1	REF 81	A-789467824	DOOR SWITCH
82	1	REF 82	A-789467824	DOOR SWITCH
83	1	REF 83	A-789467824	DOOR SWITCH
84	1	REF 84	A-789467824	DOOR SWITCH
85	1	REF 85	A-789467824	DOOR SWITCH
86	1	REF 86	A-789467824	DOOR SWITCH
87	1	REF 87	A-789467824	DOOR SWITCH
88	1	REF 88	A-789467824	DOOR SWITCH
89	1	REF 89	A-789467824	DOOR SWITCH
90	1	REF 90	A-789467824	DOOR SWITCH
91	1	REF 91	A-789467824	DOOR SWITCH
92	1	REF 92	A-789467824	DOOR SWITCH
93	1	REF 93	A-789467824	DOOR SWITCH
94	1	REF 94	A-789467824	DOOR SWITCH
95	1	REF 95	A-789467824	DOOR SWITCH
96	1	REF 96	A-789467824	DOOR SWITCH
97	1	REF 97	A-789467824	DOOR SWITCH
98	1	REF 98	A-789467824	DOOR SWITCH
99	1	REF 99	A-789467824	DOOR SWITCH
100	1	REF 100	A-789467824	DOOR SWITCH

NOTES

- FOR T1 MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2004

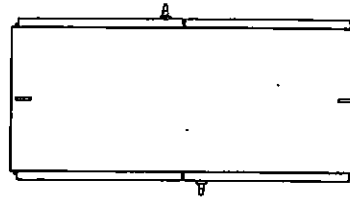
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/84	SHOP AS-BUILT	J.Z.	CH.A.			
2	5/27/83	CABINET SIZE	G.N.	J.E.			
3	3/31/83	8 AI MODULES	G.N.	J.E.			
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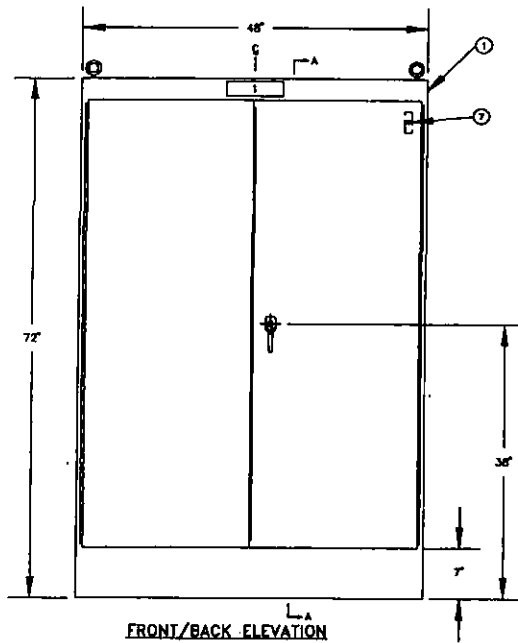
H-3 TRANS-KOOLAU TUNNEL
PLC
EQUIPMENT ELEVATION
PLC-LI LEVS

JOB NO.	3125
CUSTOMER JOB NO.	
SCALE	1/16" = 1"
DRAWING NO.	3125-964-3004
SHEET NO.	1 OF 1

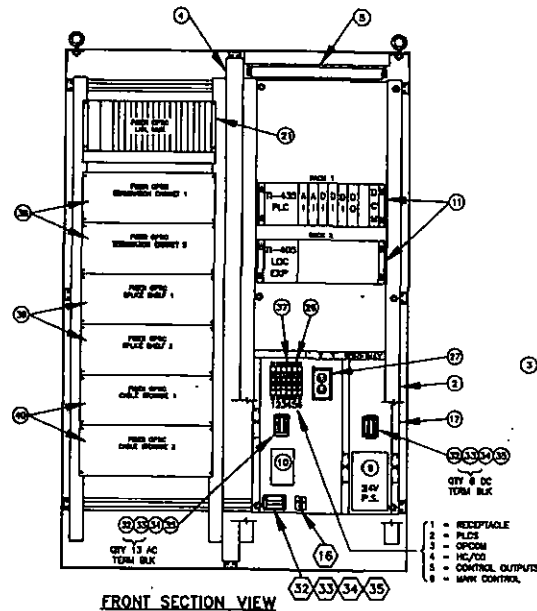
EQUIPMENT ELEVATION



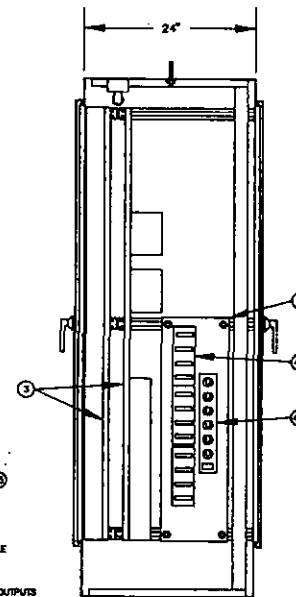
TOP VIEW



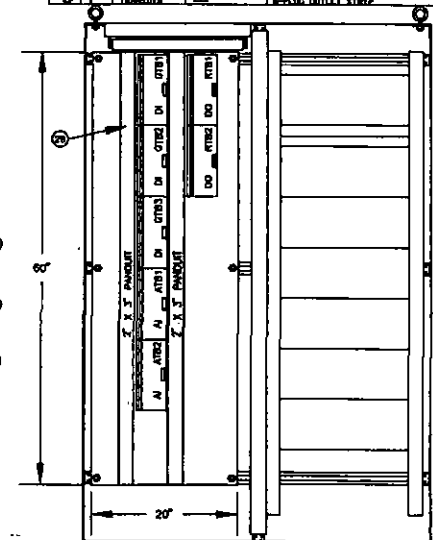
FRONT/BACK ELEVATION



FRONT SECTION VIEW



SECTION A-A



BACK SECTION VIEW

NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	POWER PANEL 1	POWER SUPPLY 1	PLC	1/2" x 1/2" x 1/2"
2					
3					
4					
5					

BILL OF MATERIAL			
ITEM	QTY	REF.	DESCRIPTION
1	1	HOFFMAN	A-7018H/2548 "ENCLOSURE, 72" x 48" x 24", NEMA 1B"
2	1	HOFFMAN	A-7018H/2548 "BACK MTS. MOUNT"
3	1	HOFFMAN	A-7018H/2548 "MOUNTING, WALL"
4	1	HOFFMAN	A-7018H/2548 "CENTER PANEL, SUPPORT"
5	1	HOFFMAN	A-7018H/2548 "FLUORESCENT LIGHT STRIP, 18" LAMP"
6	1	HOFFMAN	A-7018H/2548 "SIDE PANEL, 9 1/2" x 3 1/2"
7	1	HOFFMAN	A-7018H/2548 "DOOR SWITCH"
8	1	HOFFMAN	A-7018H/2548 "DOOR SWITCH"
9	1	ELCO	P000-04 "DC POWER SUPPLY, 24V, 20A WATT"
10	1	WCS	415 "SURGE-PROT. SUPPRESSOR"
11	1	TI	U-200 "PLC BASE"
12	1	TI	400-000 "PLC CPU"
13	1	TI	400-000 "DATA COMMUNICATIONS MODULE"
14	1	TI	400-000 "LOCAL I/O EXPANSION"
15	1	TI	400-000 "POWER SUPPLY 4"
16	1	TI	400-000 "PLASTIC WINDOW"
17	1	TI	400-000 "DC DIGITAL INPUT MODULE"
18	1	TI	400-000 "DC DIGITAL OUTPUT MODULE"
19	1	TI	400-000 "8 ANALOG INPUT MODULE"
20	1	TI	400-000 "8 ANALOG OUTPUT MODULE"
21	1	TI	400-000 "FIBER OPTIC LAN"
22	1	TI	400-000 "POWER SUPPLY"
23	1	TI	400-000 "FIBER OPTIC CONTROL CARD"
24	1	TI	400-000 "80000 16-12-0000 CARD"
25	1	TI	400-000 "CIRCUIT BREAKER, 10 AMP"
26	1	TI	400-000 "FIBER OPTIC RECEPTACLE"
27	1	TI	400-000 "RELAY, 12VDC, 10A"
28	1	TI	400-000 "RELAY, 12VDC, 10A"
29	1	TI	400-000 "RELAY, 12VDC, 10A"
30	1	TI	400-000 "RELAY, 12VDC, 10A"
31	1	TI	400-000 "RELAY, 12VDC, 10A"
32	1	TI	400-000 "RELAY, 12VDC, 10A"
33	1	TI	400-000 "RELAY, 12VDC, 10A"
34	1	TI	400-000 "RELAY, 12VDC, 10A"
35	1	TI	400-000 "RELAY, 12VDC, 10A"

NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAMS REFER TO DRAWINGS: 3125-964-2005(X1), 3125-964-2006(X3), 3125-964-2008(X7)

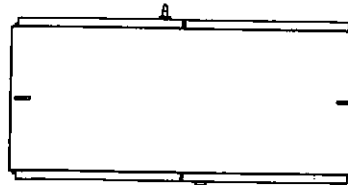
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE
1	10/5/94	SHOP AS-BUILT	J.Z.	C.H.A.		
2	5/27/93	SPLICE CABINETS	G.N.	J.E.		
3	3/31/93	8 AI MODULES	G.N.	J.E.		
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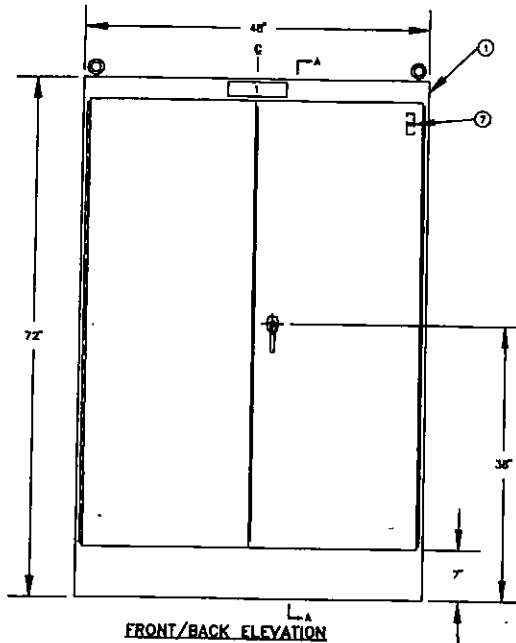
H-3 TRANS-KOOLAU TUNNEL
TI PLC & OPCOM
EQUIPMENT ELEVATION
CROSS PASSAGE X1

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/16" = 1"
SHEET	1 OF 1
DRAWING NO.	3125-964-3005

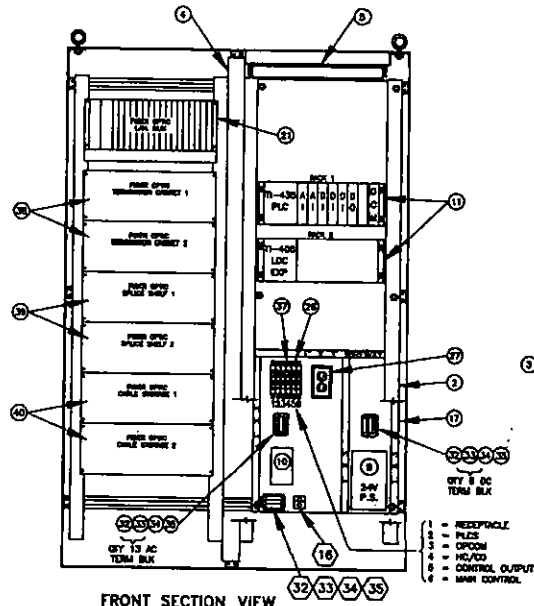
EQUIPMENT ELEVATION



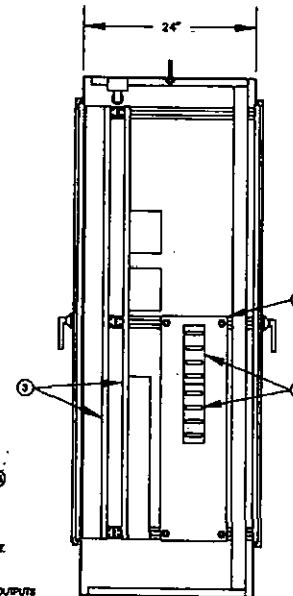
TOP VIEW



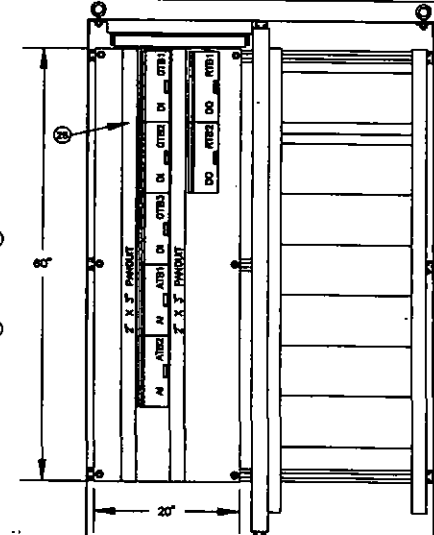
FRONT/BACK ELEVATION



FRONT SECTION VIEW



SECTION A-A



BACK SECTION VIEW

NAMEPLATE SCHEDULE				
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE
1	1	CROSS PASSAGE 3	PLC	PLC
2	1			
3	1			
4	1			
5	1			

BILL OF MATERIAL				
ITEM	QTY	WTR.	PART NO.	DESCRIPTION
1	1	WTRFM	A-784847000	ENCLOSURE, 78"x48"x24", NEMA 12
2	1	WTRFM	A-7828000	BACK HTS ANGLE
3	1	WTRFM	A-7828001	ENCLOSURE, FULL
4	1	WTRFM	A-7828002	CLUTCH PANEL, SUPPORT
5	1	WTRFM	A-7828003	FLUORESCENT LIGHT STRIP, 18" LAMP
6	1	WTRFM	A-7828004	TRIMMER
7	1	WTRFM	A-7828005	300V SWITCH
8	1	WTRFM	A-7828006	300V SWITCH
9	1	WTRFM	A-7828007	300V SWITCH
10	1	WTRFM	A-7828008	300V SWITCH
11	1	WTRFM	A-7828009	300V SWITCH
12	1	WTRFM	A-7828010	300V SWITCH
13	1	WTRFM	A-7828011	300V SWITCH
14	1	WTRFM	A-7828012	300V SWITCH
15	1	WTRFM	A-7828013	300V SWITCH
16	1	WTRFM	A-7828014	300V SWITCH
17	1	WTRFM	A-7828015	300V SWITCH
18	1	WTRFM	A-7828016	300V SWITCH
19	1	WTRFM	A-7828017	300V SWITCH
20	1	WTRFM	A-7828018	300V SWITCH
21	1	WTRFM	A-7828019	300V SWITCH
22	1	WTRFM	A-7828020	300V SWITCH
23	1	WTRFM	A-7828021	300V SWITCH
24	1	WTRFM	A-7828022	300V SWITCH
25	1	WTRFM	A-7828023	300V SWITCH
26	1	WTRFM	A-7828024	300V SWITCH
27	1	WTRFM	A-7828025	300V SWITCH
28	1	WTRFM	A-7828026	300V SWITCH
29	1	WTRFM	A-7828027	300V SWITCH
30	1	WTRFM	A-7828028	300V SWITCH
31	1	WTRFM	A-7828029	300V SWITCH
32	1	WTRFM	A-7828030	300V SWITCH
33	1	WTRFM	A-7828031	300V SWITCH
34	1	WTRFM	A-7828032	300V SWITCH
35	1	WTRFM	A-7828033	300V SWITCH
36	1	WTRFM	A-7828034	300V SWITCH
37	1	WTRFM	A-7828035	300V SWITCH
38	1	WTRFM	A-7828036	300V SWITCH
39	1	WTRFM	A-7828037	300V SWITCH
40	1	WTRFM	A-7828038	300V SWITCH
41	1	WTRFM	A-7828039	300V SWITCH

NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAMS REFER TO DRAWINGS: 3125-964-2005(X1), 3125-964-2005(X2), 3125-964-2005(X3), 3125-964-2005(X4), 3125-964-2005(X5), 3125-964-2005(X6), 3125-964-2005(X7)

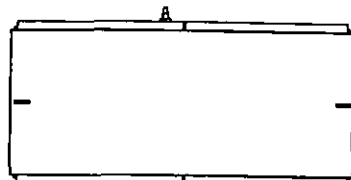
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/94	SHOP AS-BUILT	J.Z.	CH.A.			
B	9/27/93	SPLICE CABINETS	G.N.	J.E.			
A	3/31/93	8 AI MODULES	G.N.	J.E.			
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
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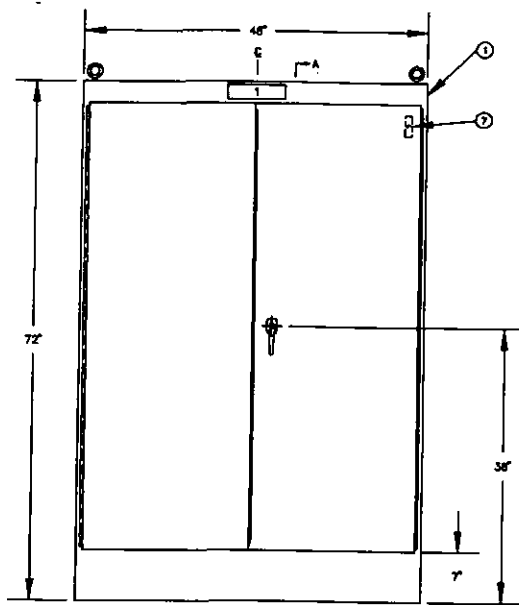
H-3 TRANS-KOOLAU TUNNEL
TI PLC & OPCOM
EQUIPMENT ELEVATION
CROSS PASSAGE X3

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/8" = 1"
DRAWING NO.	3125-964-3006
SHT 1 OF 1	

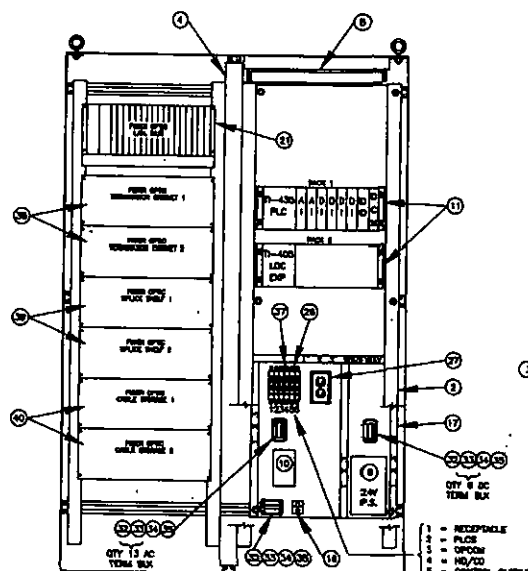
EQUIPMENT ELEVATION



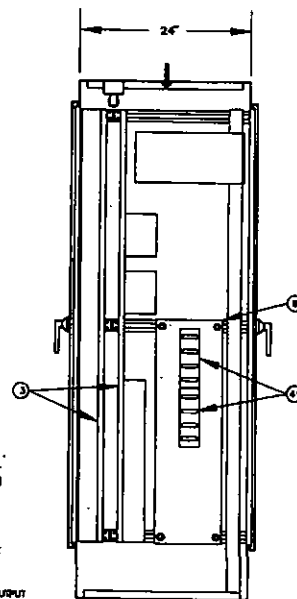
TOP VIEW



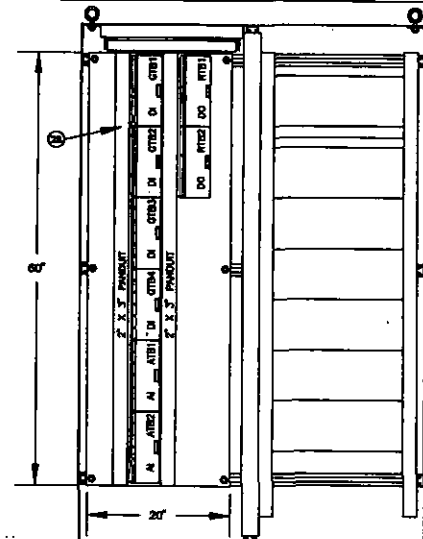
FRONT/REAR ELEVATION



FRONT SECTION VIEW



SECTION A-A



BACK SECTION VIEW

NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	UOM	SIZE
1	1	CROSS PASSAGE X5	PLC	PLC	1/2"	1/2"
2	1	PLC	PLC	PLC	1/2"	1/2"
3	1	PLC	PLC	PLC	1/2"	1/2"
4	1	PLC	PLC	PLC	1/2"	1/2"
5	1	PLC	PLC	PLC	1/2"	1/2"

ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
2	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
3	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
4	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
5	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
6	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
7	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
8	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
9	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
10	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
11	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
12	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
13	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
14	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
15	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
16	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
17	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
18	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
19	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
20	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
21	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
22	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
23	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
24	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
25	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
26	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
27	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
28	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
29	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
30	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
31	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
32	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
33	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
34	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
35	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
36	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
37	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
38	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
39	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
40	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
41	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"
42	1		A-754847B80	CROSSPASSAGE X5, 1/2" X 1/2" X 1/2"

NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-984-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-984-2007(X5)

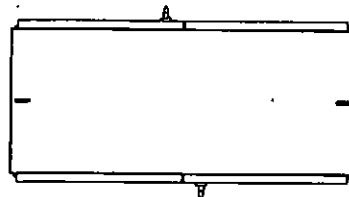
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE
1	10/5/94	SHOP AS-BUILT	J.Z.	C.N.A.		
2	5/27/93	SPICE CABINETS	C.N.	J.E.		
3	3/31/93	8 AI MODULES	C.N.	J.E.		
4	2-22-1993					

TRANSDYN
CONTROL INC.

H-3 TRANS-KOOLAU TUNNEL
TI PLC & OPCOM
EQUIPMENT ELEVATION
CROSS PASSAGE X5

JOB NO. 3125
CLIENT JOB NO.
SCALE 1/8" = 1"
SHEET 1 OF 1
DRAWING NO. 3125-984-3007

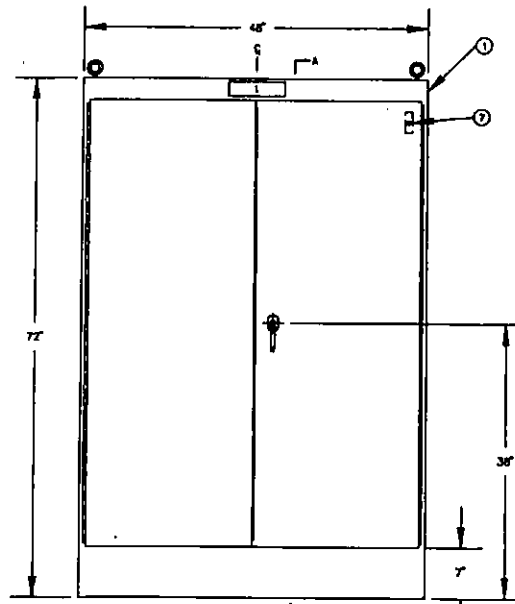
EQUIPMENT ELEVATION



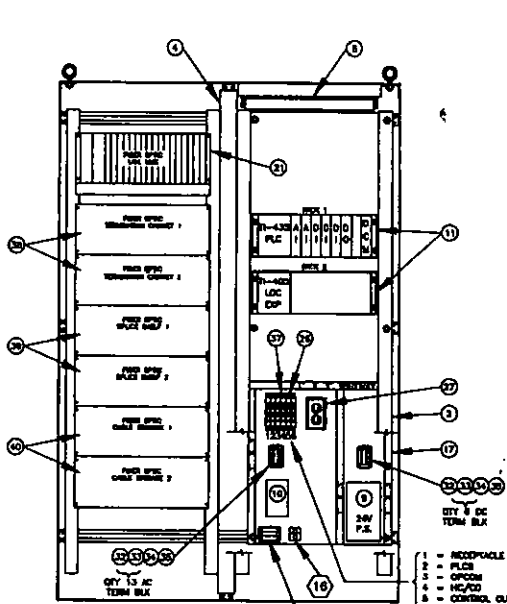
TOP VIEW

NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	NAMEPLATE	NAMEPLATE	ALUMINUM	4" X 8" X 1/8"
2	1				
3	1				
4	1				
5	1				

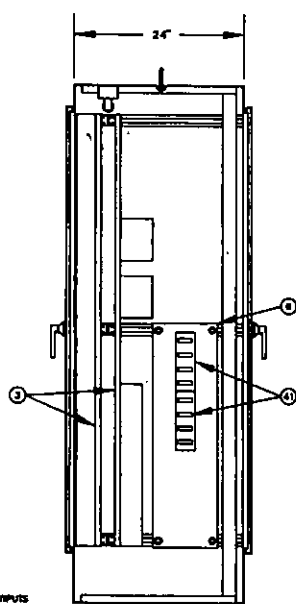
BILL OF MATERIALS			
ITEM	QTY	REF.	DESCRIPTION
1	1	NOTHING	ENCLOSURE, 72" X 48" X 24", MESH 18"
2	1	NOTHING	BACK MTS. ANGLE
3	1	NOTHING	NAMEPLATE, PLATE
4	1	NOTHING	CONTROL PANEL, SUPPORT
5	1	NOTHING	FLUORESCENT LIGHT STRIP, 18" LAMP
6	1	NOTHING	210V PANEL, 1 1/2" X 3 1/2"
7	1	NOTHING	DOOR SWITCH
8	1	NOTHING	DOOR SWITCH
9	1	NOTHING	DOOR SWITCH
10	1	NOTHING	DOOR SWITCH
11	1	NOTHING	DOOR SWITCH
12	1	NOTHING	DOOR SWITCH
13	1	NOTHING	DOOR SWITCH
14	1	NOTHING	DOOR SWITCH
15	1	NOTHING	DOOR SWITCH
16	1	NOTHING	DOOR SWITCH
17	1	NOTHING	DOOR SWITCH
18	1	NOTHING	DOOR SWITCH
19	1	NOTHING	DOOR SWITCH
20	1	NOTHING	DOOR SWITCH
21	1	NOTHING	DOOR SWITCH
22	1	NOTHING	DOOR SWITCH
23	1	NOTHING	DOOR SWITCH
24	1	NOTHING	DOOR SWITCH
25	1	NOTHING	DOOR SWITCH
26	1	NOTHING	DOOR SWITCH
27	1	NOTHING	DOOR SWITCH
28	1	NOTHING	DOOR SWITCH
29	1	NOTHING	DOOR SWITCH
30	1	NOTHING	DOOR SWITCH
31	1	NOTHING	DOOR SWITCH
32	1	NOTHING	DOOR SWITCH
33	1	NOTHING	DOOR SWITCH
34	1	NOTHING	DOOR SWITCH
35	1	NOTHING	DOOR SWITCH



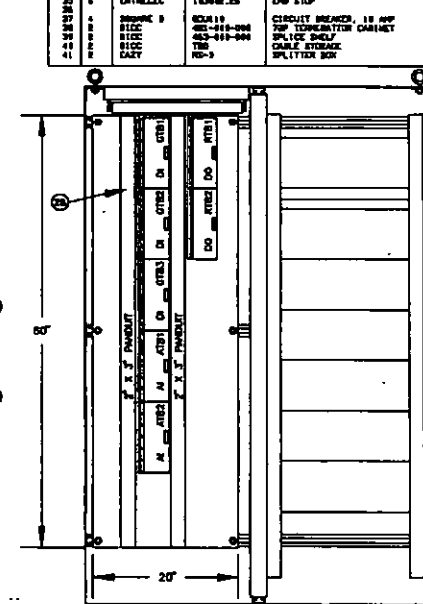
FRONT/BACK ELEVATION



FRONT SECTION VIEW



SECTION A-A



BACK SECTION VIEW

NOTES

- FOR IT MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAMS REFER TO DRAWINGS: 3125-964-2005(11), 3125-964-2006(13), 3125-964-2006(17)

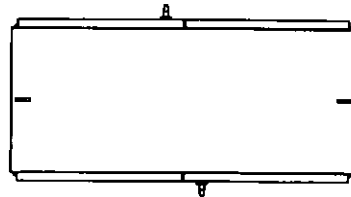
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/84	SHOP AS-BUILT	J.Z.	C.H.			
B	5/27/83	SPLICE CABINETS	C.H.	J.E.			
A	3/31/83	8 AI MODULES	C.H.	J.E.			
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE



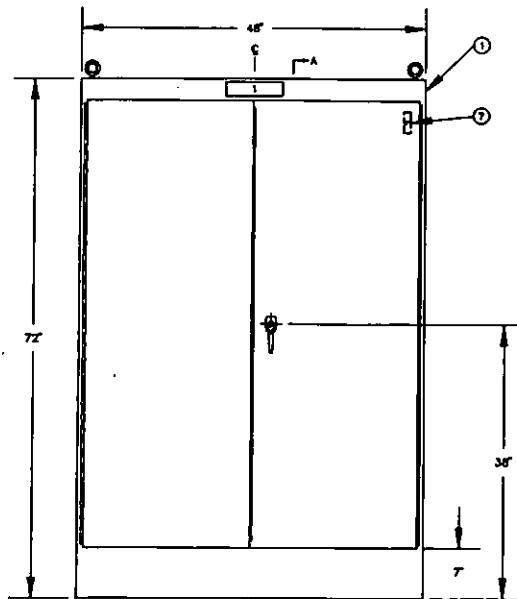
H-3 TRANS-KOOLAU TUNNEL
TI PLC & OPCOM
EQUIPMENT ELEVATION
CROSS PASSAGE X7

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/8" = 1"
DRAWING NO.	3125-964-3008
SHEET	1 OF 1

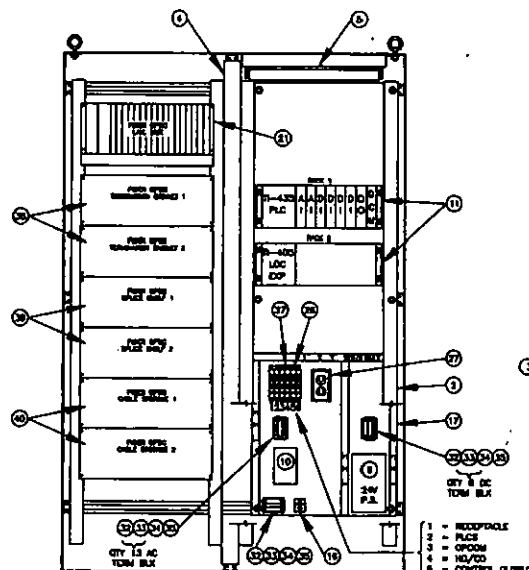
EQUIPMENT ELEVATION



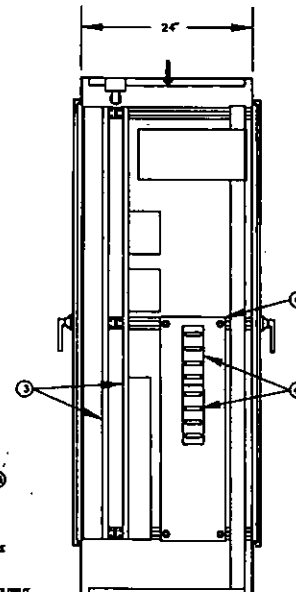
TOP VIEW



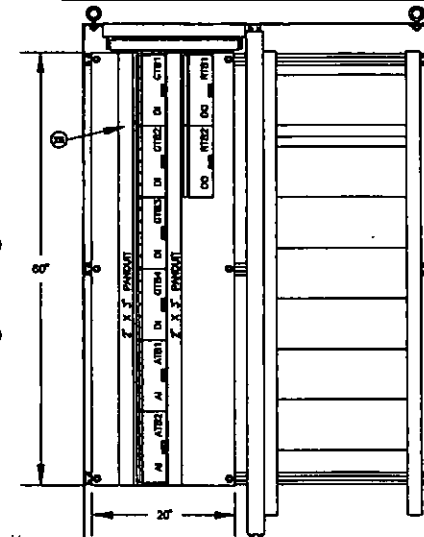
FRONT/REAR ELEVATION



FRONT SECTION VIEW



SECTION A-A



BACK SECTION VIEW

NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	THICK	UNIT
1	1	NAMEPLATE	NAMEPLATE		
2	1	NAMEPLATE	NAMEPLATE		
3	1	NAMEPLATE	NAMEPLATE		
4	1	NAMEPLATE	NAMEPLATE		
5	1	NAMEPLATE	NAMEPLATE		
6	1	NAMEPLATE	NAMEPLATE		

ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1		A-7500-1000	CHASSIS, 75"X48"X24", MOD. 10"
2	1		A-7500-1000	MOD. 10" RAIL
3	1		A-7500-1000	MOD. 10" RAIL
4	1		A-7500-1000	MOD. 10" RAIL
5	1		A-7500-1000	MOD. 10" RAIL
6	1		A-7500-1000	MOD. 10" RAIL
7	1		A-7500-1000	MOD. 10" RAIL
8	1		A-7500-1000	MOD. 10" RAIL
9	1		A-7500-1000	MOD. 10" RAIL
10	1		A-7500-1000	MOD. 10" RAIL
11	1		A-7500-1000	MOD. 10" RAIL
12	1		A-7500-1000	MOD. 10" RAIL
13	1		A-7500-1000	MOD. 10" RAIL
14	1		A-7500-1000	MOD. 10" RAIL
15	1		A-7500-1000	MOD. 10" RAIL
16	1		A-7500-1000	MOD. 10" RAIL
17	1		A-7500-1000	MOD. 10" RAIL
18	1		A-7500-1000	MOD. 10" RAIL
19	1		A-7500-1000	MOD. 10" RAIL
20	1		A-7500-1000	MOD. 10" RAIL
21	1		A-7500-1000	MOD. 10" RAIL
22	1		A-7500-1000	MOD. 10" RAIL
23	1		A-7500-1000	MOD. 10" RAIL
24	1		A-7500-1000	MOD. 10" RAIL
25	1		A-7500-1000	MOD. 10" RAIL
26	1		A-7500-1000	MOD. 10" RAIL
27	1		A-7500-1000	MOD. 10" RAIL
28	1		A-7500-1000	MOD. 10" RAIL
29	1		A-7500-1000	MOD. 10" RAIL
30	1		A-7500-1000	MOD. 10" RAIL
31	1		A-7500-1000	MOD. 10" RAIL
32	1		A-7500-1000	MOD. 10" RAIL
33	1		A-7500-1000	MOD. 10" RAIL
34	1		A-7500-1000	MOD. 10" RAIL
35	1		A-7500-1000	MOD. 10" RAIL
36	1		A-7500-1000	MOD. 10" RAIL
37	1		A-7500-1000	MOD. 10" RAIL
38	1		A-7500-1000	MOD. 10" RAIL
39	1		A-7500-1000	MOD. 10" RAIL
40	1		A-7500-1000	MOD. 10" RAIL
41	1		A-7500-1000	MOD. 10" RAIL

NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2007(XS)

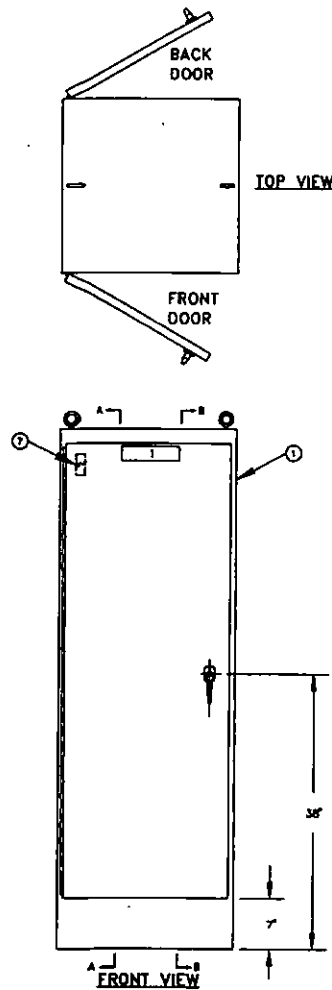
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE
1	10/5/94	SHOP AS-BUILT	A.Z.	C.H.A.		
2	5/27/93	SPLICE CABINETS	C.H.A.	J.E.		
3	3/31/93	8 AI MODULES	C.H.A.	J.E.		
4	2-22-1993					



H-3 TRANS-KOOLAU TUNNEL
TI PLC & OPCOM
EQUIPMENT ELEVATION
CROSS PASSAGE X9

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/16" = 1"
DRAWING NO.	3125-964-3009

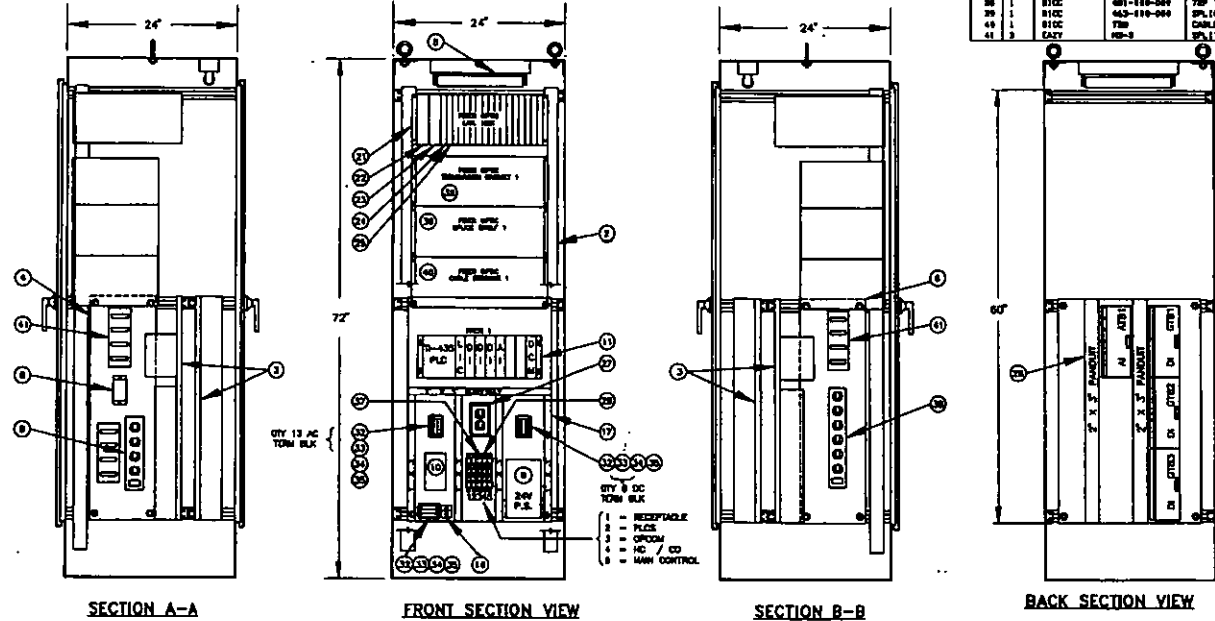
EQUIPMENT ELEVATION



NAMEPLATE SCHEDULE					
REL. QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	3RD LINE DESCRIPTION	TYPE	SIZE
1	MAIN SYSTEMS	FROM QP20 HUB 7	LINE 2	RELAY	1/2" x 1"
2					
3					
4					
5					

LOCATION	
	MAIN SYSTEMS PANEL, BLK

ITEM	QTY	WTR.	PART NO.	DESCRIPTION
1	1	NOTHING	A-720404754	ENCLOSURE, 72"x24"x24", MESH 1/2"
2	1	NOTHING	A-720404754	BACK HINGE ASSEMBLY
3	1	NOTHING	A-720404754	FRONT HINGE ASSEMBLY
4	1	TRANS-DYN	X-LT14210	FLUORESCENT LIGHT STRIP, 18" LAMP
5	1	TRANS-DYN	X-LT14210	FLUORESCENT LIGHT STRIP, 18" LAMP
6	1	NOTHING	A-LT100	LOCK SWITCH
7	1	TRANS-DYN	A-LT100	LOCK SWITCH
8	1	TRANS-DYN	A-LT100	LOCK SWITCH
9	1	TRANS-DYN	A-LT100	LOCK SWITCH
10	1	TRANS-DYN	A-LT100	LOCK SWITCH
11	1	TRANS-DYN	A-LT100	LOCK SWITCH
12	1	TRANS-DYN	A-LT100	LOCK SWITCH
13	1	TRANS-DYN	A-LT100	LOCK SWITCH
14	1	TRANS-DYN	A-LT100	LOCK SWITCH
15	1	TRANS-DYN	A-LT100	LOCK SWITCH
16	1	TRANS-DYN	A-LT100	LOCK SWITCH
17	1	TRANS-DYN	A-LT100	LOCK SWITCH
18	1	TRANS-DYN	A-LT100	LOCK SWITCH
19	1	TRANS-DYN	A-LT100	LOCK SWITCH
20	1	TRANS-DYN	A-LT100	LOCK SWITCH
21	1	TRANS-DYN	A-LT100	LOCK SWITCH
22	1	TRANS-DYN	A-LT100	LOCK SWITCH
23	1	TRANS-DYN	A-LT100	LOCK SWITCH
24	1	TRANS-DYN	A-LT100	LOCK SWITCH
25	1	TRANS-DYN	A-LT100	LOCK SWITCH
26	1	TRANS-DYN	A-LT100	LOCK SWITCH
27	1	TRANS-DYN	A-LT100	LOCK SWITCH
28	1	TRANS-DYN	A-LT100	LOCK SWITCH
29	1	TRANS-DYN	A-LT100	LOCK SWITCH
30	1	TRANS-DYN	A-LT100	LOCK SWITCH
31	1	TRANS-DYN	A-LT100	LOCK SWITCH
32	1	TRANS-DYN	A-LT100	LOCK SWITCH
33	1	TRANS-DYN	A-LT100	LOCK SWITCH
34	1	TRANS-DYN	A-LT100	LOCK SWITCH
35	1	TRANS-DYN	A-LT100	LOCK SWITCH
36	1	TRANS-DYN	A-LT100	LOCK SWITCH
37	1	TRANS-DYN	A-LT100	LOCK SWITCH
38	1	TRANS-DYN	A-LT100	LOCK SWITCH
39	1	TRANS-DYN	A-LT100	LOCK SWITCH
40	1	TRANS-DYN	A-LT100	LOCK SWITCH
41	1	TRANS-DYN	A-LT100	LOCK SWITCH



NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2010

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/84	SHOP AS-BUILT	J.Z. CHA.				
B	5/27/83	SPLICE CABINETS	G.N. J.E.				
A	3/31/83	8 AI MODULES	G.N. J.E.				

TRANS-DYN
CONTROLS INC.

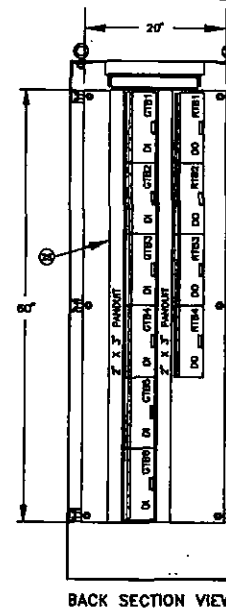
H-3 TRANS-KOOLAU TUNNEL
TI PLC & OPCOM
EQUIPMENT ELEVATION
KO LEV2

JOB NO. 3125

CLIENT JOB NO.

SCALE 1/16" = 1"

DRAWING NO. 3125-964-3010

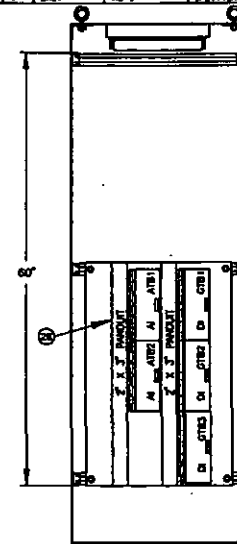
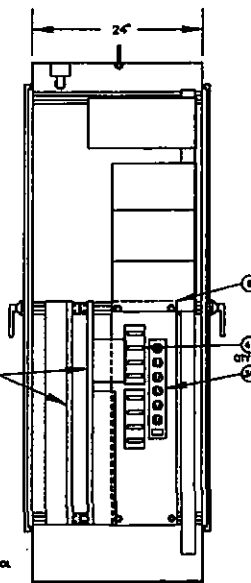
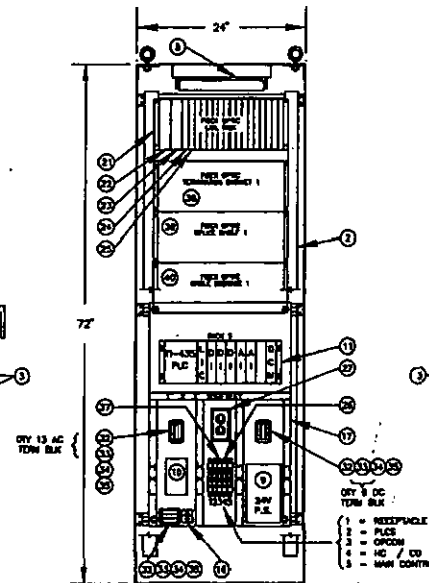
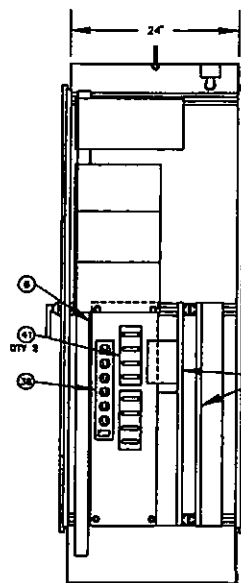
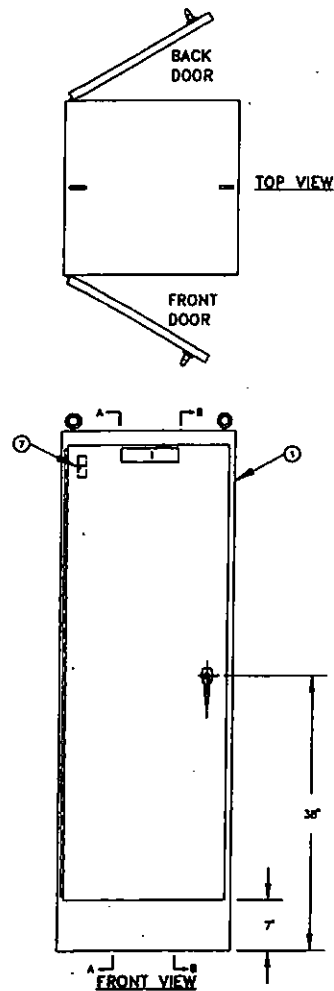


JOB NO.		3125
CLIENT JOB NO.		
SCALE	SHT 1 OF 1	
1/16" = 1"		
DRAWING NO.		
3125-964-3011		

EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE						
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	3RD LINE DESCRIPTION	TYPE	UNIT
1	1	NAME PLATE	TYPE 1000, 1/2" X 1/2"	1000	1/2" X 1/2"	1/2" X 1/2"
2						
3						
4						
5						

LOCATION	
NAME PLATE	1000



NOTES

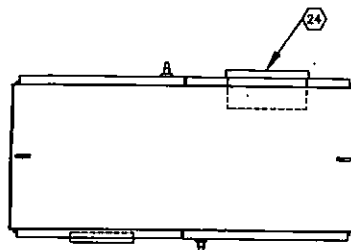
- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-954-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-954-3012

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/94	SHOP AS-BUILT	J.E. CHA.				
2	9/27/93	SPLICE CABINETS	G.M. J.E.				
3	3/31/93	8 AI MODULES	G.M. J.E.				
4							
5							

ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
2	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
3	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
4	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
5	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
6	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
7	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
8	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
9	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
10	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
11	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
12	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
13	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
14	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
15	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
16	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
17	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
18	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
19	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
20	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
21	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
22	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
23	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
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32	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
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36	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
37	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
38	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
39	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
40	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"
41	1	NOTES	A-72244/PSA	"MODULE, 78"X18"X24", 1000 12"

TRANS-DYN		JOB NO.	3125
CONTROL INC.		CLIENT JOB NO.	
H-3 TRANS-KOOLAU TUNNEL		SCALE	1/16" = 1"
TI PLC & OPCOM		SHEET	1 OF 1
EQUIPMENT ELEVATION		DRAWING NO.	3125-954-3012
PLC-KI LEV2			

JOB NO.		3125
CLIENT JOB NO.		
SCALE	SHT 1 OF 1	
1/16" = 1"		
DRAWING NO.		
3125-964-3013		

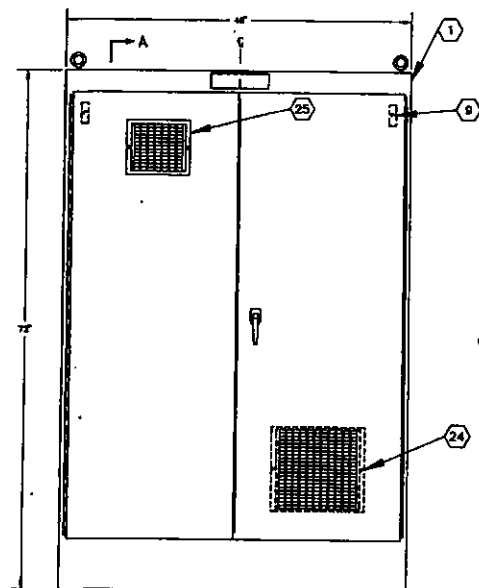


TOP VIEW

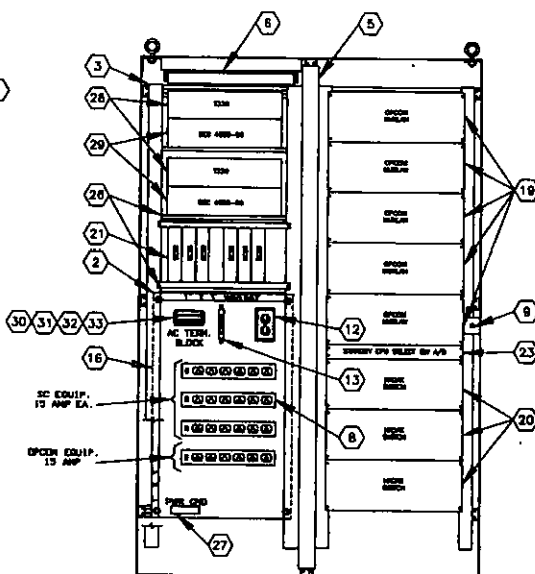
NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	CONTROL CENTER	NAME PLATE 1/2" X 1/2"	1/2" X 1/2"	1/2" X 1/2"
2	1				
3	1				
4	1				
5	1				

LOCATION	
CONTROL CENTER	

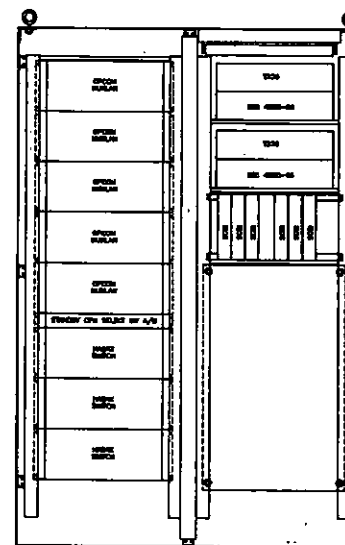
BILL OF MATERIAL			
ITEM	QTY	REF.	DESCRIPTION
1	1	HEFTMAN	A-78484F30AD
2	1	HEFTMAN	A-78484F30AD
3	1	HEFTMAN	A-78484F30AD
4	1	HEFTMAN	A-78484F30AD
5	1	HEFTMAN	A-78484F30AD
6	1	HEFTMAN	A-78484F30AD
7	1	HEFTMAN	A-78484F30AD
8	1	HEFTMAN	A-78484F30AD
9	1	HEFTMAN	A-78484F30AD
10	1	HEFTMAN	A-78484F30AD
11	1	HEFTMAN	A-78484F30AD
12	1	HEFTMAN	A-78484F30AD
13	1	HEFTMAN	A-78484F30AD
14	1	HEFTMAN	A-78484F30AD
15	1	HEFTMAN	A-78484F30AD
16	1	HEFTMAN	A-78484F30AD
17	1	HEFTMAN	A-78484F30AD
18	1	HEFTMAN	A-78484F30AD
19	1	HEFTMAN	A-78484F30AD
20	1	HEFTMAN	A-78484F30AD
21	1	HEFTMAN	A-78484F30AD
22	1	HEFTMAN	A-78484F30AD
23	1	HEFTMAN	A-78484F30AD
24	1	HEFTMAN	A-78484F30AD
25	1	HEFTMAN	A-78484F30AD
26	1	HEFTMAN	A-78484F30AD
27	1	HEFTMAN	A-78484F30AD
28	1	HEFTMAN	A-78484F30AD
29	1	HEFTMAN	A-78484F30AD
30	1	HEFTMAN	A-78484F30AD
31	1	HEFTMAN	A-78484F30AD
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33	1	HEFTMAN	A-78484F30AD
34	1	HEFTMAN	A-78484F30AD



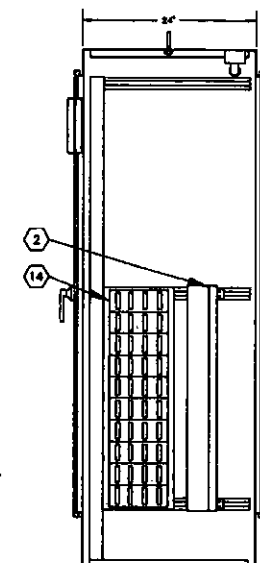
FRONT/REAR ELEVATION



FRONT SECTION VIEW



REAR SECTION VIEW



SECTION A-A

NOTES

- FOR TI MODULE LOCATION REFER TO BLOCK DIAGRAM DRAWING: 3125-964-0002
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2014
- SEE DWG 3125-964-3024 FOR (2 OF 2) OF SC & OPCOM CONTROL CENTER.

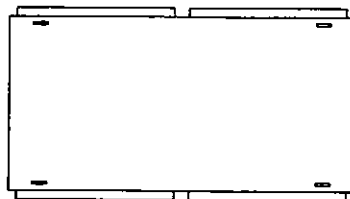
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
0	9-21-84	SHOP AS-BUILT	J.Z.	S.R.	2-23-1993	984-3014	DATE: 01-19-85
B	5-27-93	POWER STRIPS	G.N.	J.E.			
A	3-31-93	TR. SS, CB & PS	G.M.	J.E.			



H-3 TRANS-KOOLAU TUNNEL
SC & OPCOM (1 OF 2)
EQUIPMENT ELEVATION
CONTROL CENTER

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/4" = 1'
DRAWING NO.	3125-964-3014
SHEET NO.	1 OF 1

EQUIPMENT ELEVATION

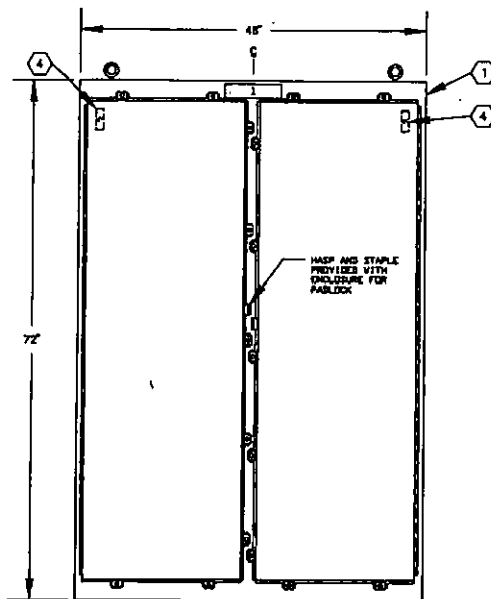


TOP VIEW

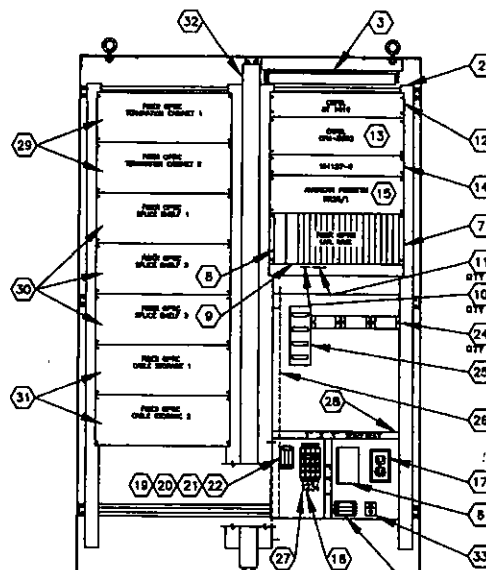
NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	NAMEPLATE FOR APPROACH	FIBER OPTIC FIBER 1/2" DIA	1/2" x 1/2"	1" x 2"
2					
3					
4					
5					

LOCATION	
345+00	

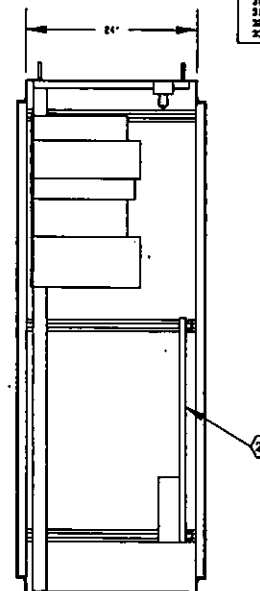
BILL OF MATERIAL			
ITEM	QTY	REV.	DESCRIPTION
1	1		HOFFMAN 4-7200P4F3 DUSTON
2	1		HOFFMAN 4-7200P4F3 DUSTON
3	1		HOFFMAN 4-7200P4F3 DUSTON
4	1		HOFFMAN 4-7200P4F3 DUSTON
5	1		HOFFMAN 4-7200P4F3 DUSTON
6	1		HOFFMAN 4-7200P4F3 DUSTON
7	1		HOFFMAN 4-7200P4F3 DUSTON
8	1		HOFFMAN 4-7200P4F3 DUSTON
9	1		HOFFMAN 4-7200P4F3 DUSTON
10	1		HOFFMAN 4-7200P4F3 DUSTON
11	1		HOFFMAN 4-7200P4F3 DUSTON
12	1		HOFFMAN 4-7200P4F3 DUSTON
13	1		HOFFMAN 4-7200P4F3 DUSTON
14	1		HOFFMAN 4-7200P4F3 DUSTON
15	1		HOFFMAN 4-7200P4F3 DUSTON
16	1		HOFFMAN 4-7200P4F3 DUSTON
17	1		HOFFMAN 4-7200P4F3 DUSTON
18	1		HOFFMAN 4-7200P4F3 DUSTON
19	1		HOFFMAN 4-7200P4F3 DUSTON
20	1		HOFFMAN 4-7200P4F3 DUSTON
21	1		HOFFMAN 4-7200P4F3 DUSTON
22	1		HOFFMAN 4-7200P4F3 DUSTON
23	1		HOFFMAN 4-7200P4F3 DUSTON
24	1		HOFFMAN 4-7200P4F3 DUSTON
25	1		HOFFMAN 4-7200P4F3 DUSTON
26	1		HOFFMAN 4-7200P4F3 DUSTON
27	1		HOFFMAN 4-7200P4F3 DUSTON
28	1		HOFFMAN 4-7200P4F3 DUSTON
29	1		HOFFMAN 4-7200P4F3 DUSTON
30	1		HOFFMAN 4-7200P4F3 DUSTON
31	1		HOFFMAN 4-7200P4F3 DUSTON
32	1		HOFFMAN 4-7200P4F3 DUSTON
33	1		HOFFMAN 4-7200P4F3 DUSTON
34	1		HOFFMAN 4-7200P4F3 DUSTON
35	1		HOFFMAN 4-7200P4F3 DUSTON
36	1		HOFFMAN 4-7200P4F3 DUSTON
37	1		HOFFMAN 4-7200P4F3 DUSTON
38	1		HOFFMAN 4-7200P4F3 DUSTON
39	1		HOFFMAN 4-7200P4F3 DUSTON
40	1		HOFFMAN 4-7200P4F3 DUSTON
41	1		HOFFMAN 4-7200P4F3 DUSTON
42	1		HOFFMAN 4-7200P4F3 DUSTON
43	1		HOFFMAN 4-7200P4F3 DUSTON
44	1		HOFFMAN 4-7200P4F3 DUSTON
45	1		HOFFMAN 4-7200P4F3 DUSTON
46	1		HOFFMAN 4-7200P4F3 DUSTON
47	1		HOFFMAN 4-7200P4F3 DUSTON
48	1		HOFFMAN 4-7200P4F3 DUSTON
49	1		HOFFMAN 4-7200P4F3 DUSTON
50	1		HOFFMAN 4-7200P4F3 DUSTON
51	1		HOFFMAN 4-7200P4F3 DUSTON
52	1		HOFFMAN 4-7200P4F3 DUSTON
53	1		HOFFMAN 4-7200P4F3 DUSTON
54	1		HOFFMAN 4-7200P4F3 DUSTON
55	1		HOFFMAN 4-7200P4F3 DUSTON
56	1		HOFFMAN 4-7200P4F3 DUSTON
57	1		HOFFMAN 4-7200P4F3 DUSTON
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65	1		HOFFMAN 4-7200P4F3 DUSTON
66	1		HOFFMAN 4-7200P4F3 DUSTON
67	1		HOFFMAN 4-7200P4F3 DUSTON
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72	1		HOFFMAN 4-7200P4F3 DUSTON
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83	1		HOFFMAN 4-7200P4F3 DUSTON
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91	1		HOFFMAN 4-7200P4F3 DUSTON
92	1		HOFFMAN 4-7200P4F3 DUSTON
93	1		HOFFMAN 4-7200P4F3 DUSTON
94	1		HOFFMAN 4-7200P4F3 DUSTON
95	1		HOFFMAN 4-7200P4F3 DUSTON
96	1		HOFFMAN 4-7200P4F3 DUSTON
97	1		HOFFMAN 4-7200P4F3 DUSTON
98	1		HOFFMAN 4-7200P4F3 DUSTON
99	1		HOFFMAN 4-7200P4F3 DUSTON
100	1		HOFFMAN 4-7200P4F3 DUSTON



FRONT / BACK VIEW



FRONT SECTION VIEW



SIDE SECTION VIEW

NOTES

1.) FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2015

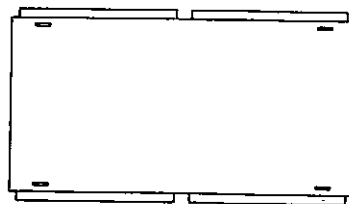
REV.	DATE	DESCRIPTION	BY	APP.
1	10/5/84	SHOP AS-BUILT	J.Z.	C.H.A.
C	5/27/83	SPLICE CABINETS	G.H.	J.E.
B	3/31/83	DOOR & TEMP. CONTROL SWL	G.H.	J.E.
DATE:	2-23-1993	FILE: 964-3015 / DATE: 01-19-95		



H-3 TRANS-KOOLAU TUNNEL
CCTV & OPCOM
EQUIPMENT ELEVATION
HALAWA FAR APPROACH

JOB NO.	3125
CUSTOMER NO.	
SCALE	1/16" = 1"
DRAWING NO.	3125-964-3015

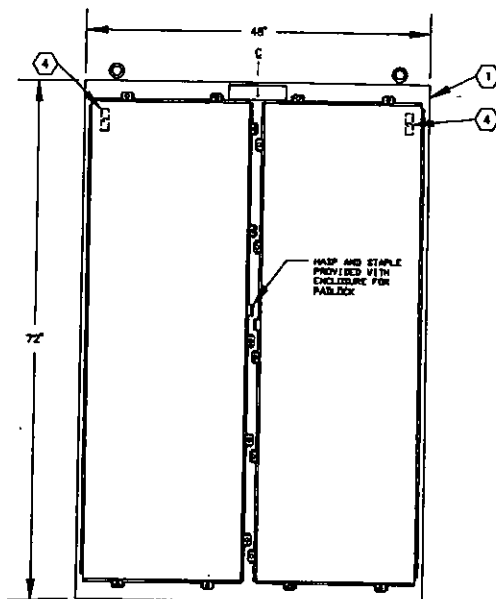
EQUIPMENT ELEVATION



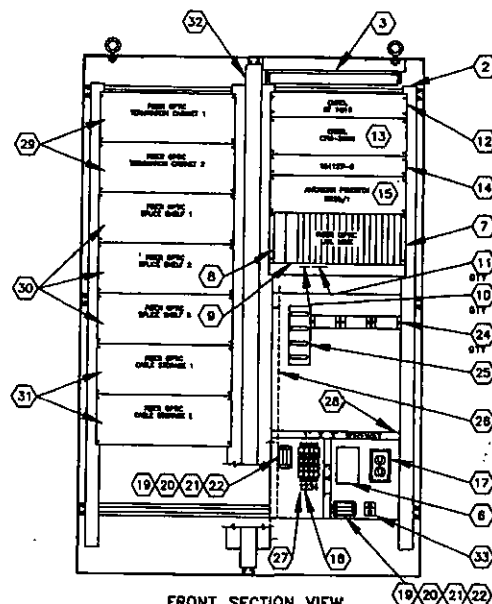
TOP VIEW

NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	1000 AMP APPROACH	1000 AMP APPROACH	1/4"	1/4" x 1/4"
2					
3					
4					
5					
6					

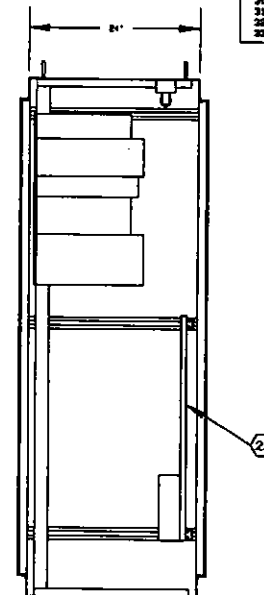
LOCATION	
1100-00	



FRONT / BACK VIEW



FRONT SECTION VIEW



SIDE SECTION VIEW

BILL OF MATERIAL			
ITEM	QTY	REF.	DESCRIPTION
1	1	HOFFMAN	ENCLOSURE, 700X400X4, NEMA 4
2	1	HOFFMAN	A-70000000
3	1	HOFFMAN	PLATEMOUNT LOCK STRIP, 18" LAMP
4	1	HOFFMAN	A-70000000
5	1	HOFFMAN	FIBER OPTIC CENTER
6	1	HOFFMAN	FIBER OPTIC CENTER
7	1	HOFFMAN	CHASSIS, FIBER OPTIC LAN
8	1	HOFFMAN	POWER SUPPLY
9	1	HOFFMAN	FIBER OPTIC CONTROL CARD
10	1	HOFFMAN	8000 SUP CARD
11	1	HOFFMAN	PHONE CARD
12	1	HOFFMAN	OPTICAL TRANSMITTER
13	1	HOFFMAN	CONTROLLER
14	1	HOFFMAN	151127-00
15	1	HOFFMAN	MULTIPLEXER M
16	1	HOFFMAN	CIRCUIT BREAKER, 15 AMP
17	1	HOFFMAN	TRIP
18	1	HOFFMAN	TRIP
19	1	HOFFMAN	151127-00
20	1	HOFFMAN	151127-00
21	1	HOFFMAN	151127-00
22	1	HOFFMAN	151127-00
23	1	HOFFMAN	151127-00
24	1	HOFFMAN	151127-00
25	1	HOFFMAN	151127-00
26	1	HOFFMAN	151127-00
27	1	HOFFMAN	151127-00
28	1	HOFFMAN	151127-00
29	1	HOFFMAN	151127-00
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33	1	HOFFMAN	151127-00

NOTES

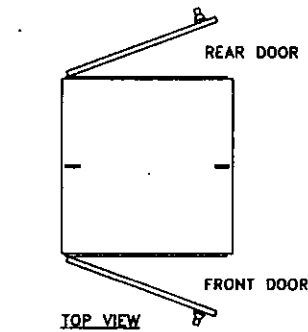
1.) FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2016

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	10/5/94	SHOP AS-BUILT	J.Z.	C.H.A.			
C	5/27/93	SPLICE CABINETS	G.N.	J.E.			
B	3/31/93	DOOR & TEMP. CONTROL SW.	G.N.	J.E.			
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE

TRANS-DYN
CONTROL INC.
H-3 TRANS-KOOLAU TUNNEL
CCTV & OPCOM
EQUIPMENT ELEVATION
HAIKU NEAR APPROACH

JOB NO. 3125
CLIENT JOB NO.
SCALE 1/16" = 1"
SHEET 1 OF 1
DRAWING NO. 3125-964-3016

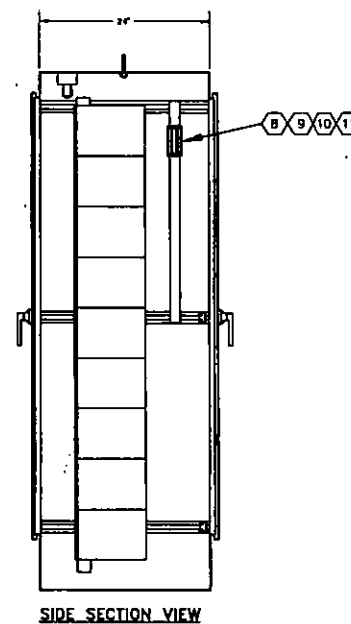
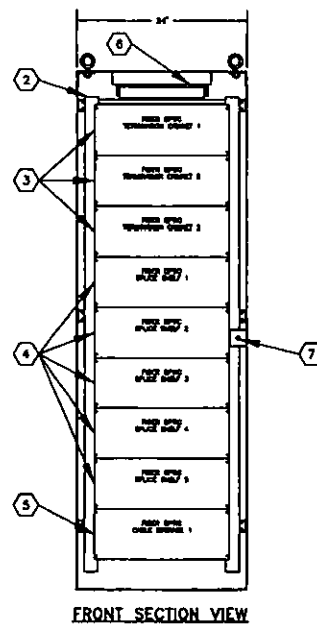
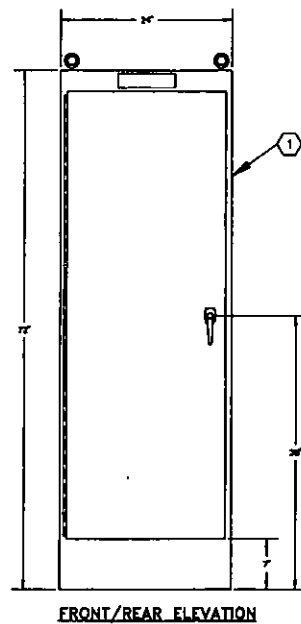
Control Center Cabinets (Equipment Room)



EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE					
REL. QTY.	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	QTY.	SIZE
1	CONTROL CENTER	FRONT SPICE CABINET	1/4" X 1/4" X 1/4"	1	1/4" X 1/4" X 1/4"
2					
3					
4					
5					

BILL OF MATERIAL				
ITEM	QTY.	REV.	PART NO.	DESCRIPTION
1	1		A-72242AF58A	ENCLOSURE, 72242AF58A, NOM 12
2	1		A-72242AF58A	BACK MTS ANGLES
3	1		461-081-969	727 TERMINATION CABINET
4	1		461-081-969	SPICE SHELF
5	1		789	CABLE STORAGE
6	1		2-1716318	FLUORESCENT LIGHT STRIP, 18" LAMP
7	1		A-17329	DOOR SWITCH
8	1		16000-12	MTS RAIL
9	1		113116-07	TERMINAL BLOCK
10	1		118266-16	END SECTION
11	1		16000-06	END STOP



NOTES

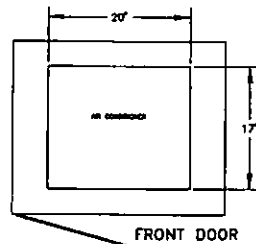
1.) FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2021

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
B	5/27/83	SPICE CABINET	G.M.	J.E.			
A	4-9-83	ISSUED FOR APPROVAL	G.M.	J.E.			



H-3 TRANS-KOOLAU TUNNEL
FIBER OPTIC SPICE CABINET
EQUIPMENT ELEVATION
CONTROL CENTER

JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/16" = 1"
DRAWING NO.	3125-964-3028
SHT 1 OF 1	

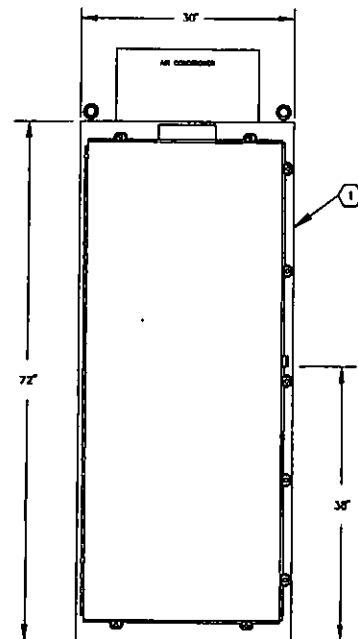


TOP VIEW

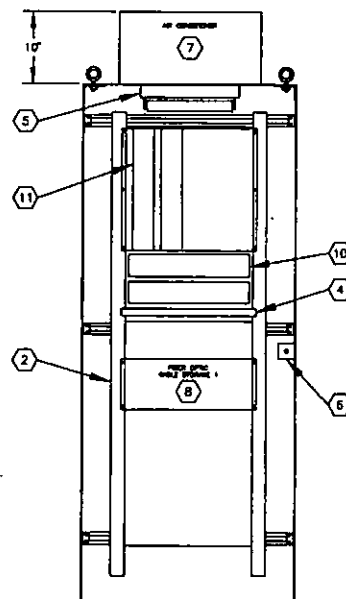
EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE						
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	UNIT	QTY
1	1	VOICE CIRCUITS	CROSS CONNECT	1/4"	1"	1"
2						
3						
4						
5						

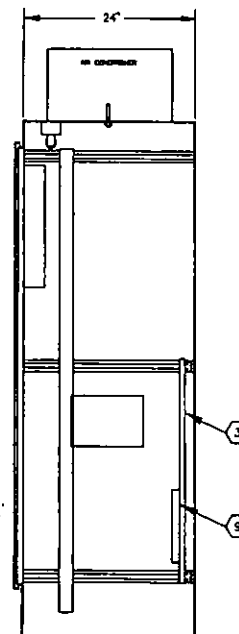
BILL OF MATERIAL				
ITEM	QTY	MFR.	PART NO.	DESCRIPTION
1	1	HOFFMAN	A-720314FE	ENCLOSURE, 72X31X45, NEMA 4
2	1	HOFFMAN	MODIFIER	RACK MOUNTING, 30" CAB./19" EQUIP.
3	1	HOFFMAN	A72P310FE	BACK PANEL, 19X1
4	1	HOFFMAN	A/R	SHIELD
5	1	HOFFMAN	X-LF16218	FLUORESCENT LIGHT STRIP, 18" LAMP
6	1	HOFFMAN	A-17320	220V SWITCH
7	1	HOFFMAN	D-ACDC021	AIR CONDITIONER
8	1	HOFFMAN	193	CABLE STORAGE
9	1	HOFFMAN	229	SURGE SUPPRESSOR V/ 6 OUTLETS
10	2	HOFFMAN	3624	HOFFMAN
11	2	HOFFMAN	3624	HOFFMAN
12				
13				



FRONT / BACK VIEW



FRONT SECTION VIEW



SIDE SECTION VIEW

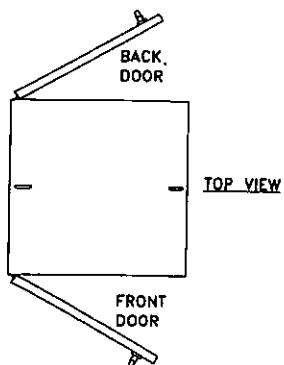
NOTES

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
A	4-8-94	ISSUED FOR APPROVAL	G.N.	J.E.	4-8-94	964-3031	10-05-94



H-3 TRANS-KOOLAU TUNNEL
TELCO CROSS CONNECT
EQUIPMENT ELEVATION
VOICE CIRCUITS

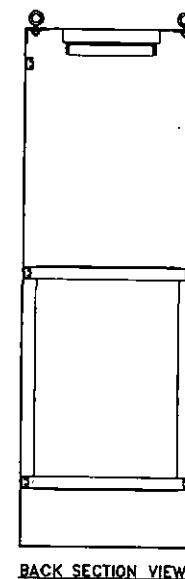
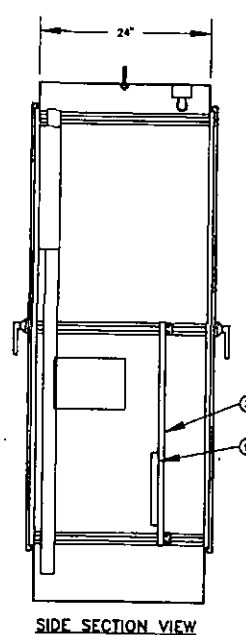
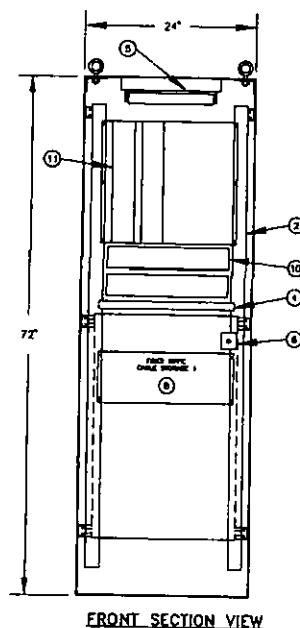
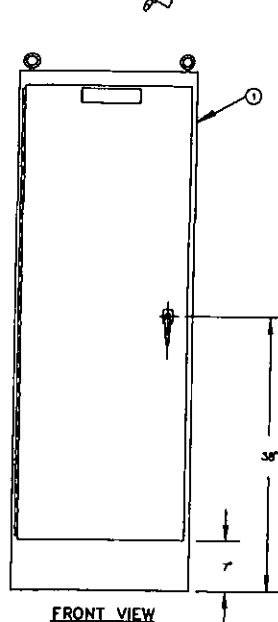
JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/16" = 1"
DRAWING NO.	3125-964-3031



EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	UNIT
1	1	VOICE CIRCUITS	CONTROL BUILDING	1/4"	1 X 1 F
2					
3					
4					
5					

BILL OF MATERIAL				
ITEM	QTY	MFR.	PART NO.	DESCRIPTION
1	1	HOFFMAN	A-722484F3DA	ENCLOSURE, 720X424, NOM 12
2	1	HOFFMAN	A-722484F3	RACK MOUNTING ANGLES
3	1	HOFFMAN	A-722484F2	BACK PANEL, 1/4"
4	1	HOFFMAN	A-722484F1	SHIELD
5	1	HOFFMAN	A-722484F1B	FLUORESCENT LIGHT STRIP, 16" LAMP
6	1	HOFFMAN	A-722484F1C	DOOR SWITCH
7	1	HOFFMAN	A-722484F1D	DOOR SWITCH
8	1	HOFFMAN	A-722484F1E	DOOR SWITCH
9	1	HOFFMAN	A-722484F1F	DOOR SWITCH
10	1	HOFFMAN	A-722484F1G	DOOR SWITCH
11	1	HOFFMAN	A-722484F1H	DOOR SWITCH
12	1	HOFFMAN	A-722484F1I	DOOR SWITCH
13	1	HOFFMAN	A-722484F1J	DOOR SWITCH
14	1	HOFFMAN	A-722484F1K	DOOR SWITCH
15	1	HOFFMAN	A-722484F1L	DOOR SWITCH



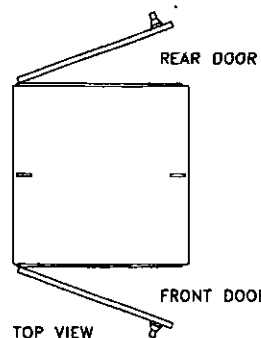
NOTES

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
A	4-6-94	ISSUED FOR APPROVAL	G.H.	J.E.	4-8-94	94-3032	10-05-94



H-3 TRANS-KOOLAU TUNNEL
CONTROL BUILDING
EQUIPMENT ELEVATION
VOICE CIRCUITS

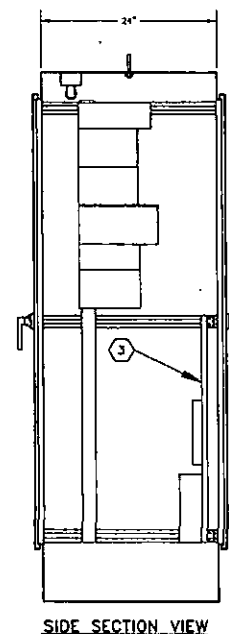
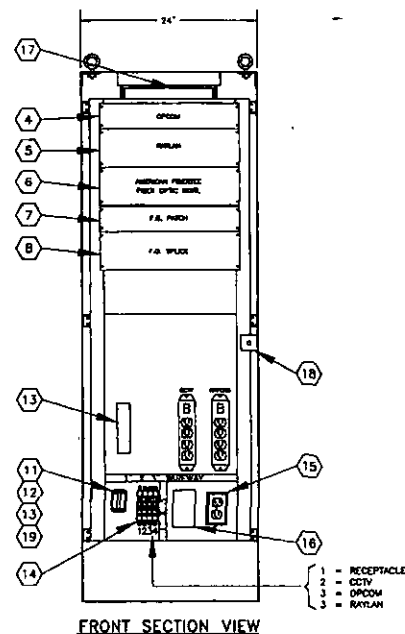
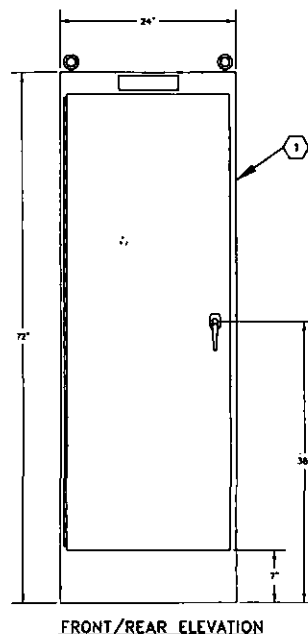
JOB NO.	3125
CLIENT JOB NO.	
SCALE	1/16" = 1"
DRAWING NO.	3225-964-3032



EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE					
NO.	LINE	DESCRIPTION	TYPE	UNIT	QTY
1	1	F.O. HVB OMOB	RECEIPT	1/4"	8" x 1"
2	2				
3	3				
2					

BILL OF MATERIAL				
ITEM	QTY	MFR.	PART NO.	DESCRIPTION
1	1	HOFFMAN	A-72244FSDA	ENCLOSURE, 72X24X4, NEMA 12
2	1	HOFFMAN	A-72244FSDA	RACK MOUNTING ANGLES
3	1	HOFFMAN	A-72244FSDA	RACK PANEL, HALF
4	1	OPCON	ML44V-1	CHASSIS 5 F.O.
5	1	BATLUM	SR-20/1	CHASSIS 5 LUM
6	1	FI BERTEX	SR-20/1	FI BERTEX OPTIC MULTIPLEXER
7	1	TBS	TBS	F.O. PATCH PANEL
8	1	TBS	TBS	F.O. SPLICER SHELF
9	A/R	ENTRELEC	186300, 12	MOUNTING RAIL
10	1	ENTRELEC	118368, 16	END SECTION
11	1	ENTRELEC	183002, 26	END STOP
12	2	TBS	TBS	ETHERNET/FIBER CONVERTER
13	1	SQUARE D	QDU13	CIRCUIT BREAKER, 15 AMP
14	1	TBS	TBS	DUPLEX RECEPTACLE
15	1	HCS	416	SURGE PROTECTOR
16	1	HOFFMAN	A-LFBA2	FLUORESCENT LIGHT
17	1	HOFFMAN	A-LFBA2	DOOR SWITCH



NOTES

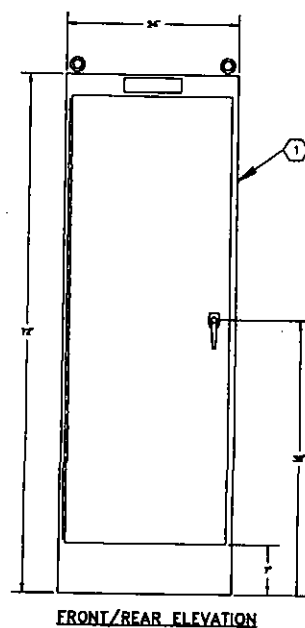
- 1.) FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2022

DESIGNED BY	SCOTT RYSTER				
DRAWN BY	R. DUSEY				
CHECKED BY	S.R.				
DATE: 12-12-12	UPDATE: 09-12-85	REV.	DATE	ISSUED FOR CONSTRUCTION PER CDD-21	R.E. S.R.
				DESCRIPTION	BY APP.

TRANSDYN CONTROLS
Pleasanton, California

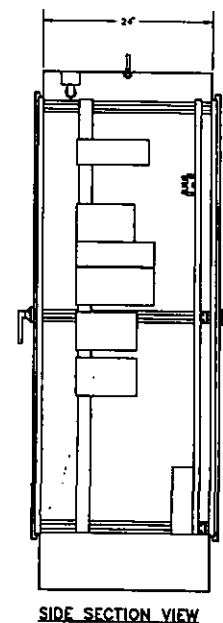
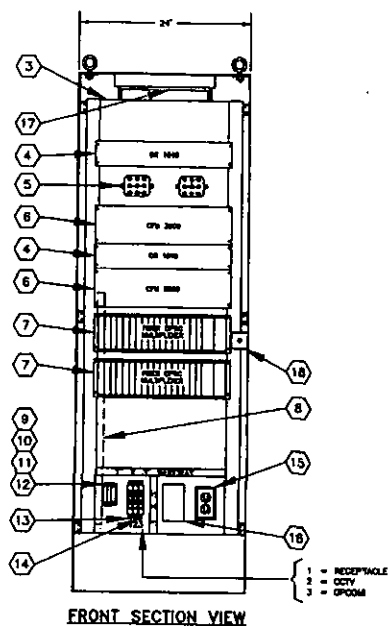
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
H-3 TRANS-KOOLAU TUNNEL
F.O. HVB OMOB - EQUIPMENT ELEVATION

SCALE: AS SHOWN	JOB NO. 3125
CDD FILE NO. 964-3033	SHT. OF 11
DRAWING NO. 3125-964-3033	REV. A



NAMEPLATE SCHEDULE						
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	UNIT	SIZE
1	1	ELECTRIC, CONTROL	GEN CHARG 3	end of line control	1/4"	1" x 1"
2						
3						
4						
5						
6						

BILL OF MATERIAL				
ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1	HOFFMAN	A-72242AF28A	ENCLOSURE, T82044294, NEWA 12
2	1	HOFFMAN	A-72094P'S	BACK MOUNTING ANGLES
3	1	HOFFMAN	A72094P'S	BACK MOUNTING, FLAT
4	1	WATL	1414119	OPTICAL SPLITTER
5	1	RWS	PA2000WCEI	OPTICAL SPLITTER, 8-WAY
6	1	ORTEL	ORTEL 2000	CONTROLLED
7	1	FIBERTEK	SR-25/1	FIBER OPTIC MULTIPLEXER
8	1	SCOUNDA	ACS-1	4-BUNDLE OUTPUT POWER STRIP
9	1	ENTRISOL	1405010.12	TECHNICAL BLOCK
10	1	ENTRISOL	A-13314.07	TECHNICAL BLOCK
11	1	ENTRISOL	112664.16	TECHNICAL BLOCK
12	1	ENTRISOL	103646	TECHNICAL BLOCK
13	1	SCOUNDA	OCU115	CIRCUIT BREAKER, 10 AMP
14	1	SCOUNDA	OCU110	CIRCUIT BREAKER, 10 AMP
15	1	TSD	210	SURGE RECEPTACLE
16	1	HCS	416	SLACK PROTECTOR
17	1	HOFFMAN	A-73704	FLUORESCENT LIGHT
18	2	HOFFMAN	A-13314	DOOR SWITCH



1.) FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING:
3125-964-2020

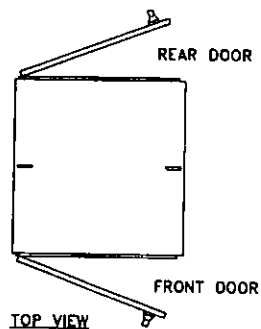
						DRAWN BY	J. SULAMIN	APPR. BY	
B	5/27/93	NAMEPLATE	G.J.L.	J.E.		DESIGN BY	JOHN EWEERS	APPR. BY	
A	4-8-93	ISSUED FOR APPROVAL	J.B.	J.E.		CHECK BY	JOHN EWEERS	APPR. BY	
REV.	DATE:	DESCRIPTION	J.B.	APP.	DATE: 4-9-93	FILE: 964-3023 / DATE: 01-19-95			



TRANSDYN
CONTROLS, INC.

H-3 TRANS-KOOLAU TUNNEL
CCTV CABINET 3
EQUIPMENT ELEVATION
CONTROL CENTER

JOB NO.		3125
CLIENT JOB NO.		3125
SCALE	SHT 1 OF 1	
1/8" = 1"		
DRAWING NO.		
3125-964-3023		

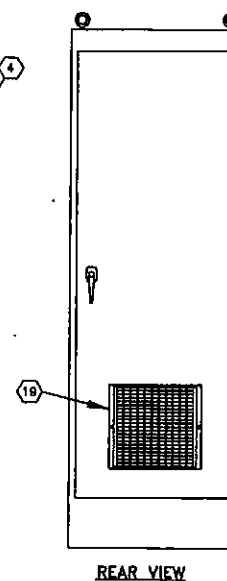
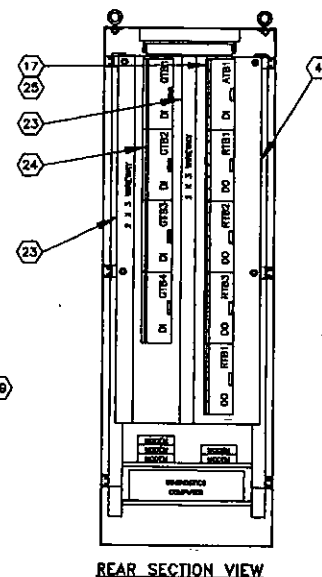
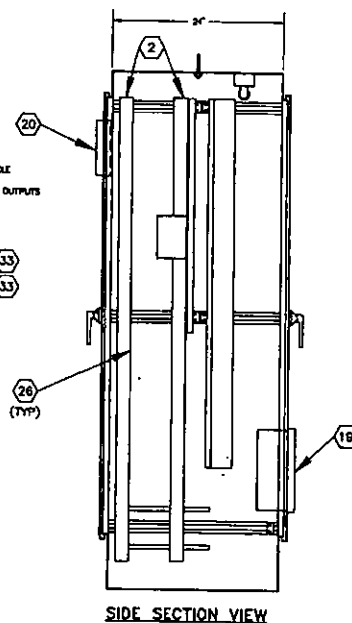
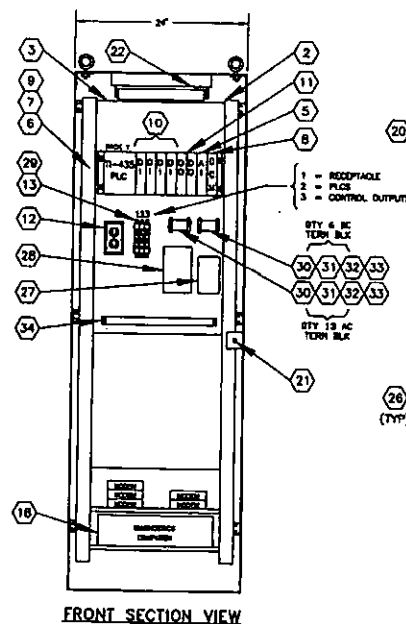
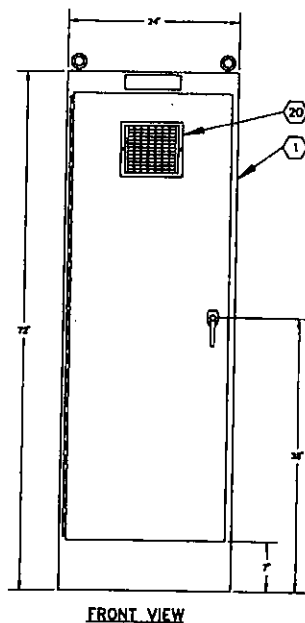


EQUIPMENT ELEVATION

NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	CONTROL CENTER	SUPPLY & CONTROL	1/4"	1' x 1'
2					
3					
4					
5					

LOCATION	
CONTROL CENTER	

ITEM	QTY	REF.	PART NO.	DESCRIPTION
1	1		HOFFMAN A-7284AFSDA	ENCLOSURE, 7284-4004, MONA 12
2	1		HOFFMAN A-7284AFSDA	BACK INTO ANGLES
3	1		HOFFMAN A-7284AFSDA	HALF PANEL
4	1		TAC	51" x 28" PANEL
5	1		FACTS	8 ANALOG INPUT MODULE
6	1		4000AC	PLC CPU
7	1		4000C-CPU	PLC CPU
8	1		U-288	DATA COMM. MODULE
9	1		4000M	PLC BASE
10	1		G-14H	UN. PWR. CARTRIDGE
11	1		V-288	32 DIGITAL INPUT MODULE
12	1		Y-18T	32 DIGITAL OUTPUT MODULE
13	1		T80	DUPLEX RECEPTACLE
14	1		SQUARE D	CIRCUIT BREAKER, 15 AMP
15	1			
16	1			
17	1		POLYUS AT22405	ANALOG TERMINAL BLOCK
18	1		DOX 9252X	DIAGNOSTICS COMPUTER
19	1		HOFFMAN A-PH1802PH	COOLING FAN PACKAGE
20	1		HOFFMAN A-C0818	EXHAUST GRILL & FILTER
21	1		HOFFMAN A-L750V	DOOR SWITCH
22	1		HOFFMAN X-LF1618	FLUORESCENT LIGHT STRIP, 18" LAMP
23	1		PANADUIT DECELO6	VIBRATORY
24	1		POLYUS 0732405	GENERAL TERMINAL BLOCK
25	1		POLYUS 0732405	RELAY TERMINAL BLOCK
26	1		HOFFMAN BLK28H	MOUNTING SHIELD
27	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
28	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
29	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
30	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
31	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
32	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
33	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
34	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
35	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
36	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
37	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
38	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
39	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
40	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
41	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
42	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
43	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
44	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
45	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
46	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
47	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
48	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
49	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
50	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
51	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
52	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
53	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
54	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
55	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
56	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
57	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
58	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
59	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
60	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
61	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
62	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
63	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
64	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
65	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
66	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
67	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
68	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
69	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
70	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
71	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
72	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
73	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
74	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
75	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
76	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
77	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
78	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
79	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
80	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
81	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
82	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
83	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
84	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
85	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
86	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
87	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
88	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
89	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
90	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
91	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
92	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
93	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
94	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
95	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
96	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
97	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
98	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
99	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V
100	1		HOFFMAN BLK28H	32 PIN SUPPLY 24V, 180V



NOTES

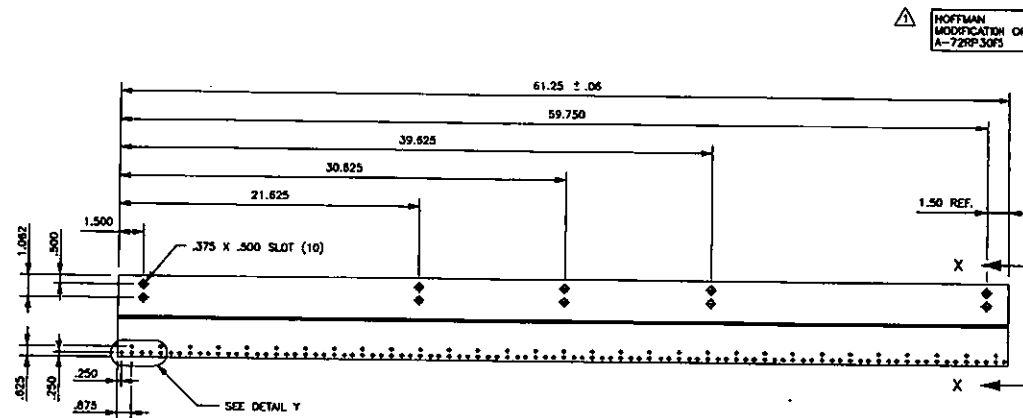
- FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2017
- SEE DWG. 3125-964-3014 FOR (1 OF 2) SC & OPCOM CONTROL CENTER

REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
1	1-26-95	CHANGES PER C.O. #45	J.Z.	S.R.			
0	9-21-94	SHOP AS-BUILT	J.Z.	S.R.			
B	5-27-93	COOLING FAN	G.M.	J.E.			
A	4-9-93	ISSUED FOR APPROVAL	J.B.	J.E.			
REV.	DATE	DESCRIPTION	BY	APP.	DATE	FILE	DATE
					4-9-93	3125-964-3024	01-31-95

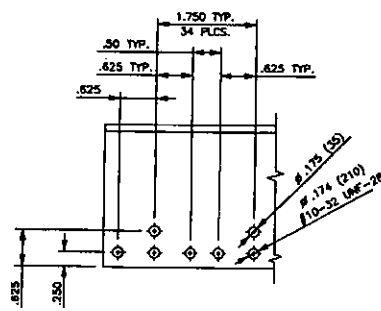


H-3 TRANS-KOOLAU TUNNEL
RTU EG/SC & OPCOM (2 OF 2)
EQUIPMENT ELEVATION
CONTROL CENTER

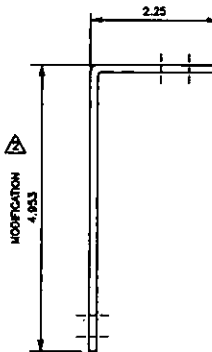
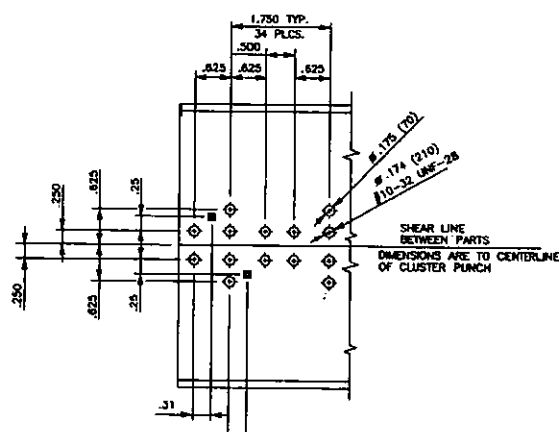
JOB NO.	3125
CLIENT JOB NO.	3125
SCALE	1/16" = 1"
DRAWING NO.	3125-964-3024
SHEET	1 OF 1



△ HOFFMAN
MODIFICATION OF
A-72RP30F3



DETAIL Y



VIEW X-X

NOTES

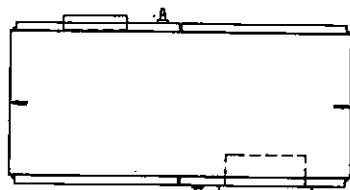
- △ MODIFICATION OF HOFFMAN CAT NO. A-72RP30F3 (MODIFIED)
PART NO. 22312-002 (MODIFIED)
- △ MODIFICATION WAS: 2.453 IS: 4.953

0	8-1-94	ISSUED FOR CONSTRUCTION	G.N.	N.W.	CHECK BY	JOHN EWEERS	APPR. BY	
REV.	DATE	DESCRIPTION	BY	APP.	DATE	4-28-1993	FILE: 964-3025 /	DATE: 10-05-94



HAWAII H-3
MODIFICATION DRAWING
RACK MTG ANGLE
30" CABINET / 19" RACK

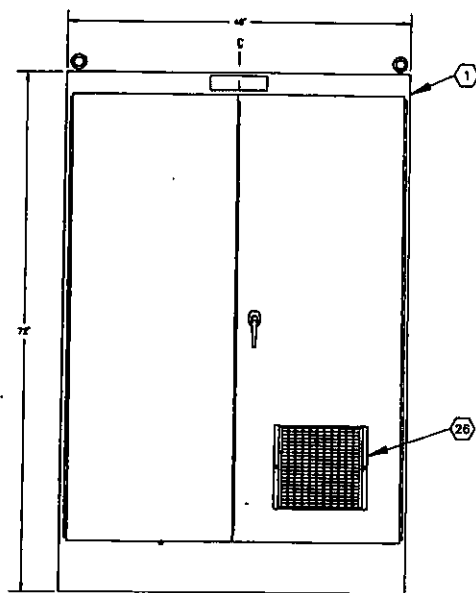
JOB NO.	3125
CLIENT JOB NO.	
SCALE	N/A
SHT 1 OF 1	
DRAWING NO.	3125-964-3025



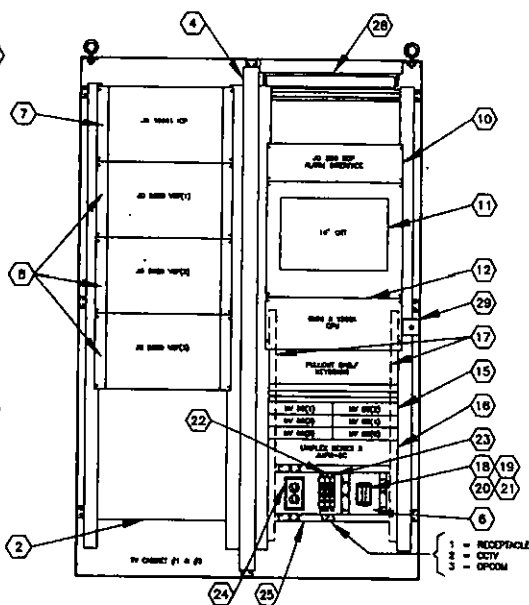
TOP VIEW

EQUIPMENT ELEVATION

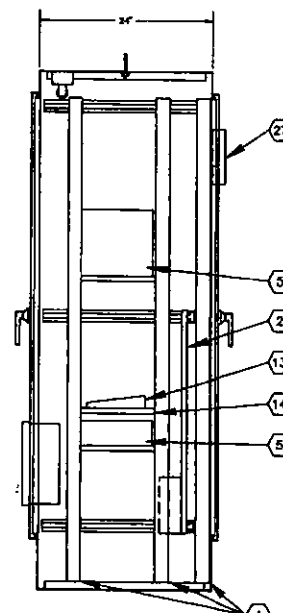
NAMEPLATE SCHEDULE					
NO.	QTY	1ST LINE DESCRIPTION	2ND LINE DESCRIPTION	TYPE	SIZE
1	1	CONTROL CENTER	NEW CHASIS 1 & 2		
2					
3					
4					
5					



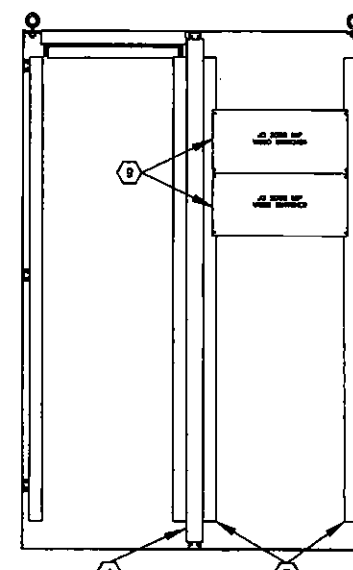
FRONT ELEVATION



FRONT SECTION VIEW



SIDE SECTION VIEW



REAR SECTION VIEW

BILL OF MATERIAL				
ITEM	QTY	MFR.	PART NO.	DESCRIPTION
1	1	HOFFMAN	A-7050FAS	ENCLOSURE, 7050SER, NEW 12
2	1	HOFFMAN	A-7050FAS	BACK PANEL, HALF
3	1	HOFFMAN	A-7050FAS	BACK KIT ANGLES
4	1	HOFFMAN	A-7050FAS	CENTER PANEL SUPPORT
5	1	HOFFMAN	SLASH	MOUNTING SHELF
6	1			
7	1	JAVELIN	JOI 00610P	
8	1	JAVELIN	JOE 00610P	
9	1	JAVELIN	JOE 00610P	VIBRO SWITCHER
10	1	JAVELIN	JOE 00610P	ALARM INTERFACE
11	1	YES	TSD	14" CRT MONITOR
12	1	JAVELIN	1500A	CPU UNIT 1500A
13	1	JAVELIN	NA	EXTENSION
14	1	HOFFMAN	D-1040P	PULLOUT KEYBOARD SHELF
15	1	HOFFMAN	WYIS	COLOR MULTIVISION PROCESSOR
16	1	UNIFLEX	UPP-8C	SERIES 2
17	1	SOUND-B	ACS-1	6 DUPLEX OUTLET POWER STRIP
18	1	ENTRELEC	148094-12	HEATING RAIL
19	1	ENTRELEC	115116-07	TERMINAL BLOCK
20	1	ENTRELEC	118048-16	DIG SECTION
21	1	ENTRELEC	103492-26	DIG STOP
22	1	SQUARE D	QOM115	CIRCUIT BREAKER, 15 AMP
23	1	SQUARE D	QOM110	CIRCUIT BREAKER, 10 AMP
24	1	YES	TSD	DUPLEX RECEPTACLE
25	1	WCS	416	SURGE/PI SUPPRESSOR
26	1	HOFFMAN	A-PA100P	COOLING FAN PACKAGE
27	1	HOFFMAN	A-002018	EXHAUST ORIFICE & FILTER
28	1	HOFFMAN	A-L71018	FLOODLIGHT LIGHT STRIP, 18" LAMP
29	1	HOFFMAN	A-L7018	DOOR SWITCH

NOTES

1.) FOR POWER DISTRIBUTION WIRING DIAGRAM REFER TO DRAWING: 3125-964-2019

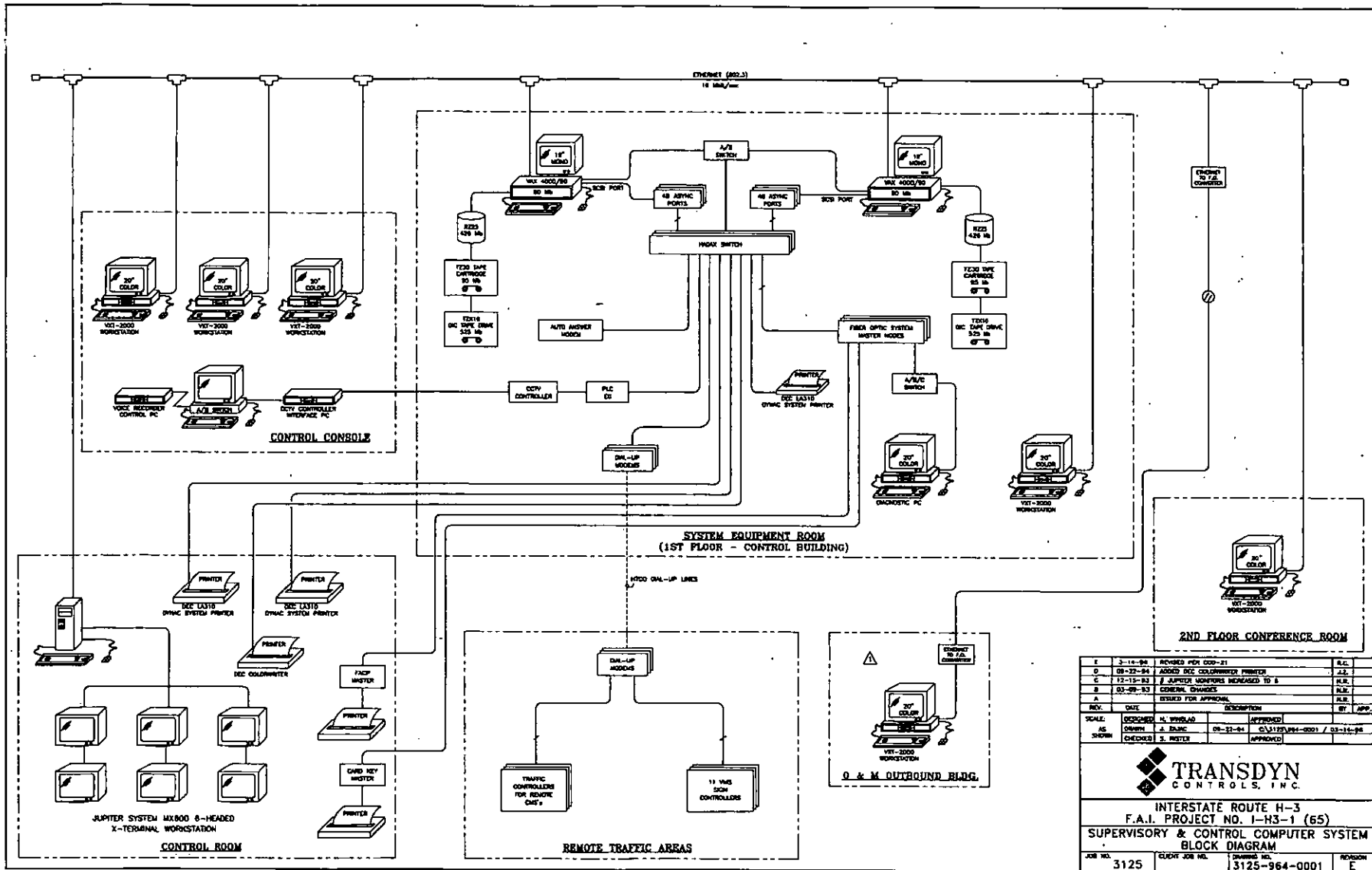
REV.	DATE:	DESCRIPTION	BY	APP.	DATE:	FILE: 964-3022 / DATE: 01-19-85
B	5/27/83	COOLING FAN	G.N.	J.E.		
A	4-9-83	ISSUED FOR APPROVAL	G.N.	J.E.		
REV.	DATE:	DESCRIPTION	BY	APP.	DATE:	FILE: 964-3022 / DATE: 01-19-85

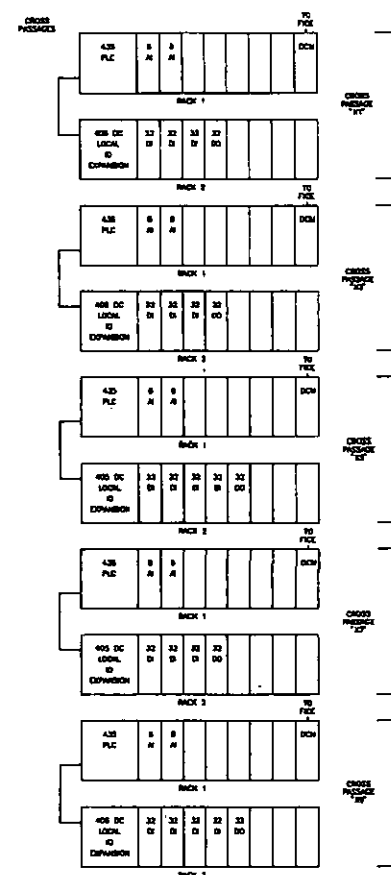
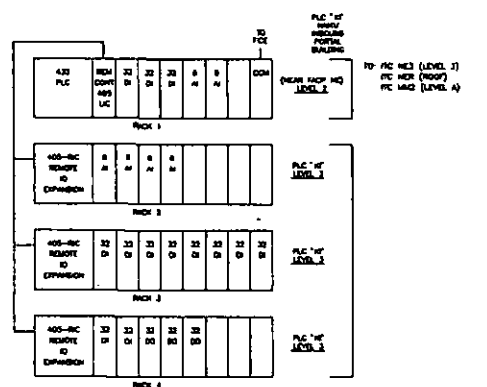
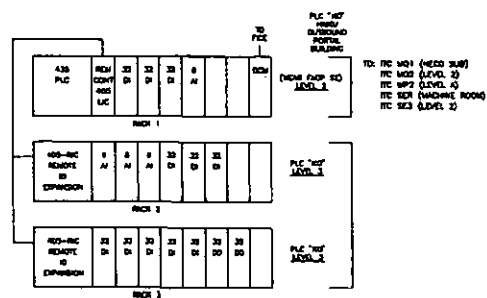
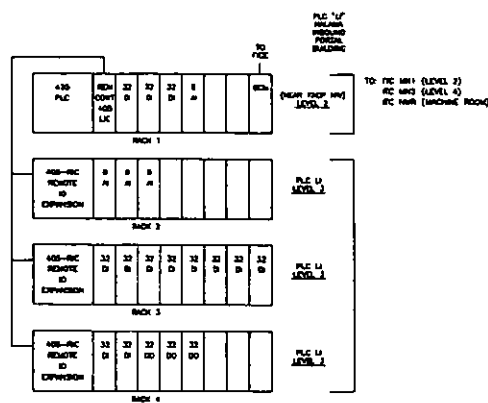
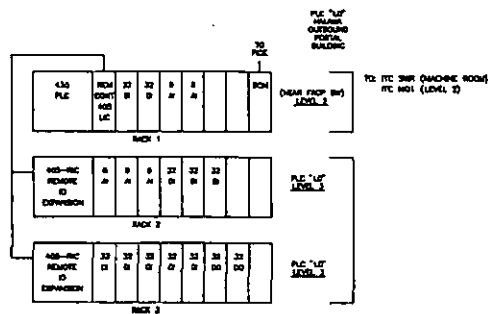
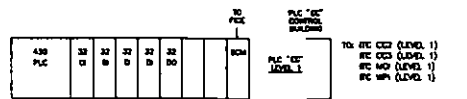


H-3 TRANS-KOOLAU TUNNEL
CCTV CABINETS 1 & 2
EQUIPMENT ELEVATION
CONTROL CENTER

JOB NO. 3125
CLIENT JOB NO.
SCALE 1/16" = 1"
DRAWING NO. 3125-964-3022

SCADA System





NOTES

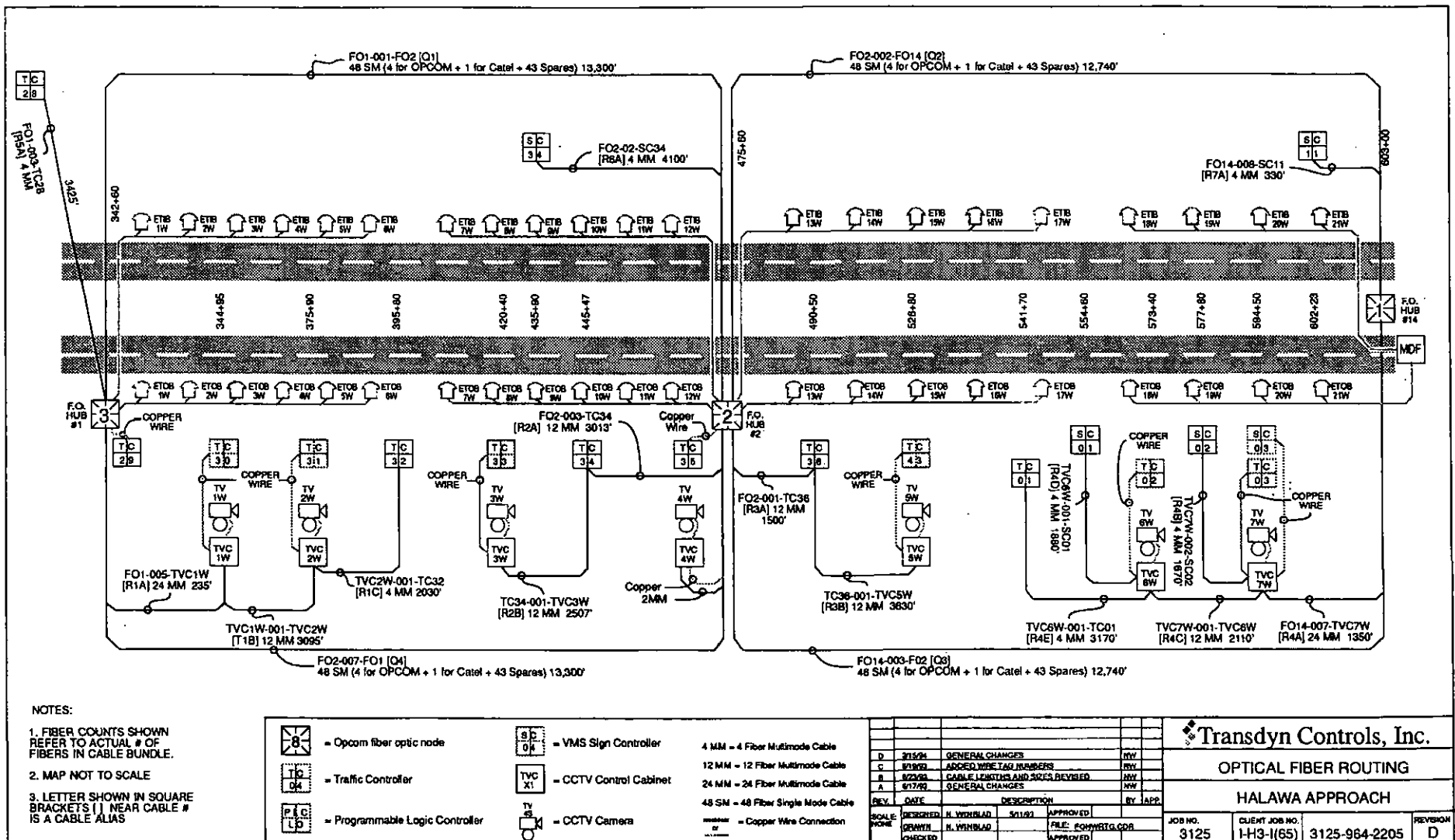
REV.	DATE	DESCRIPTION	BY	APP.	DATE	1-23-1993	FILE: 984-0002 / DATE: 06-29-94
B	3/31/93	8 AI MODULES	G.M.	J.E.			
A	2/11/93	GENERAL CHANGES	D.D.	J.E.			



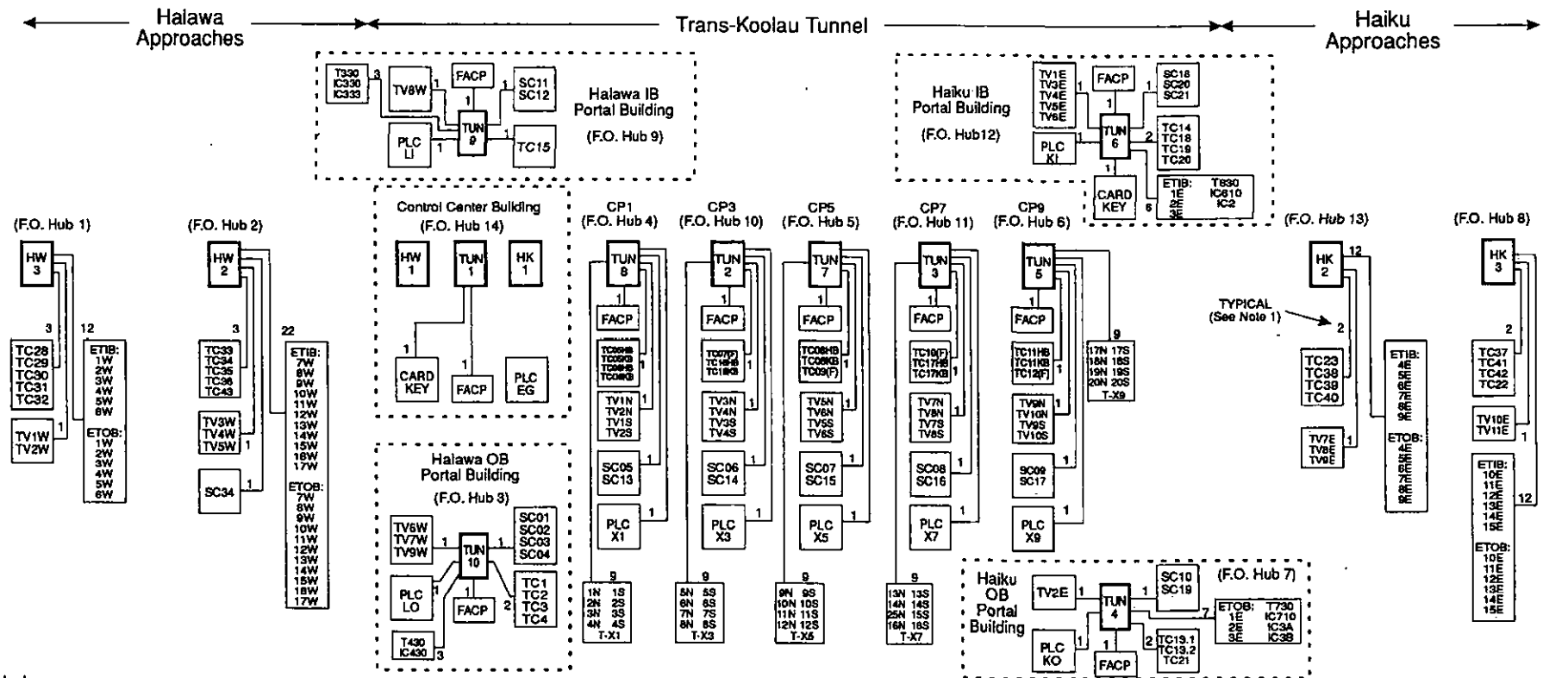
H-3 TRANS-KOOLAU TUNNEL
BLOCK DIAGRAM
PLC LAYOUT

JOB NO.	3125
CLIENT JOB NO.	
SCALE	N/A
DRAWING NO.	3125-964-0002

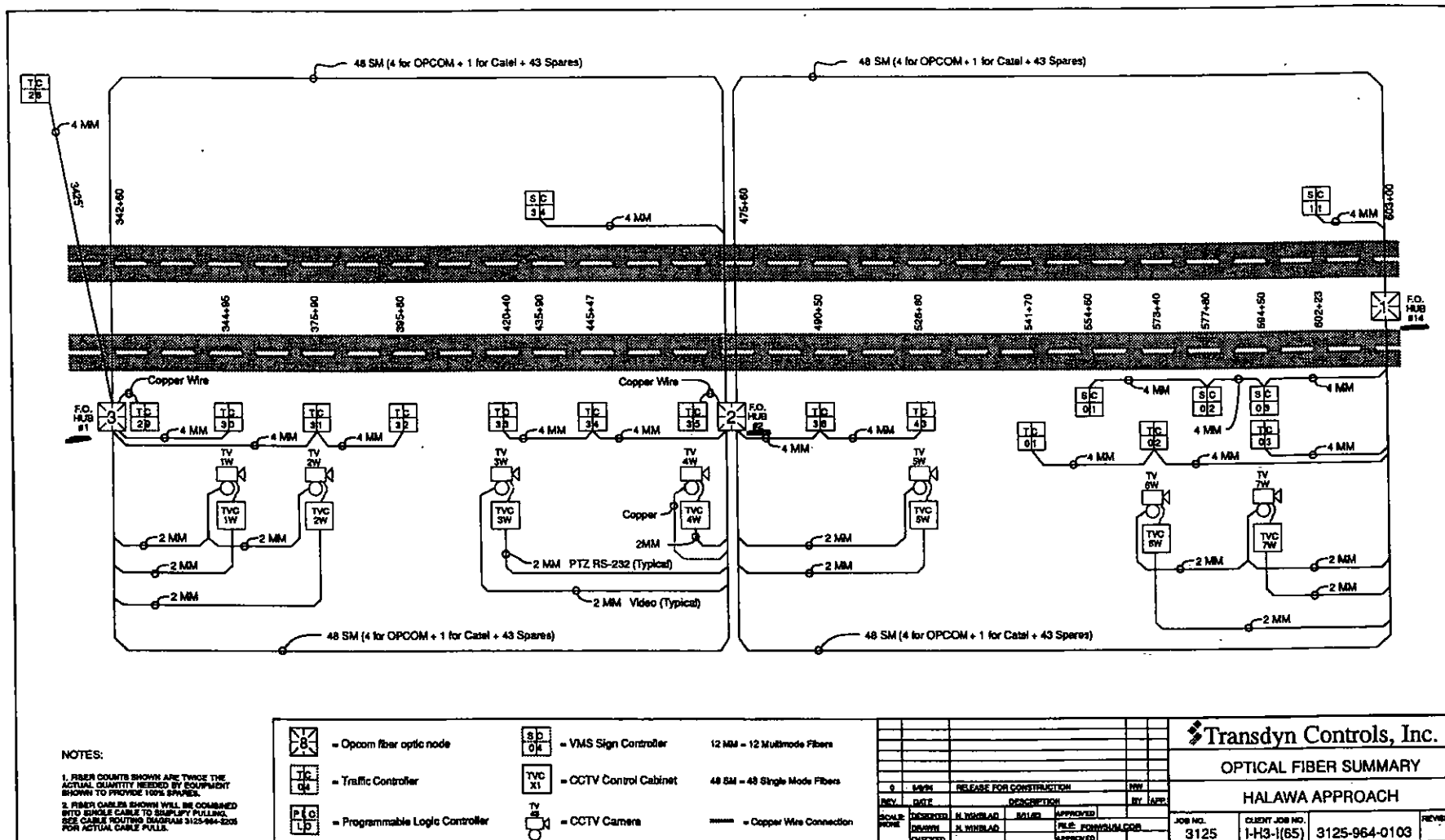
Fiber Optic Cable Routing

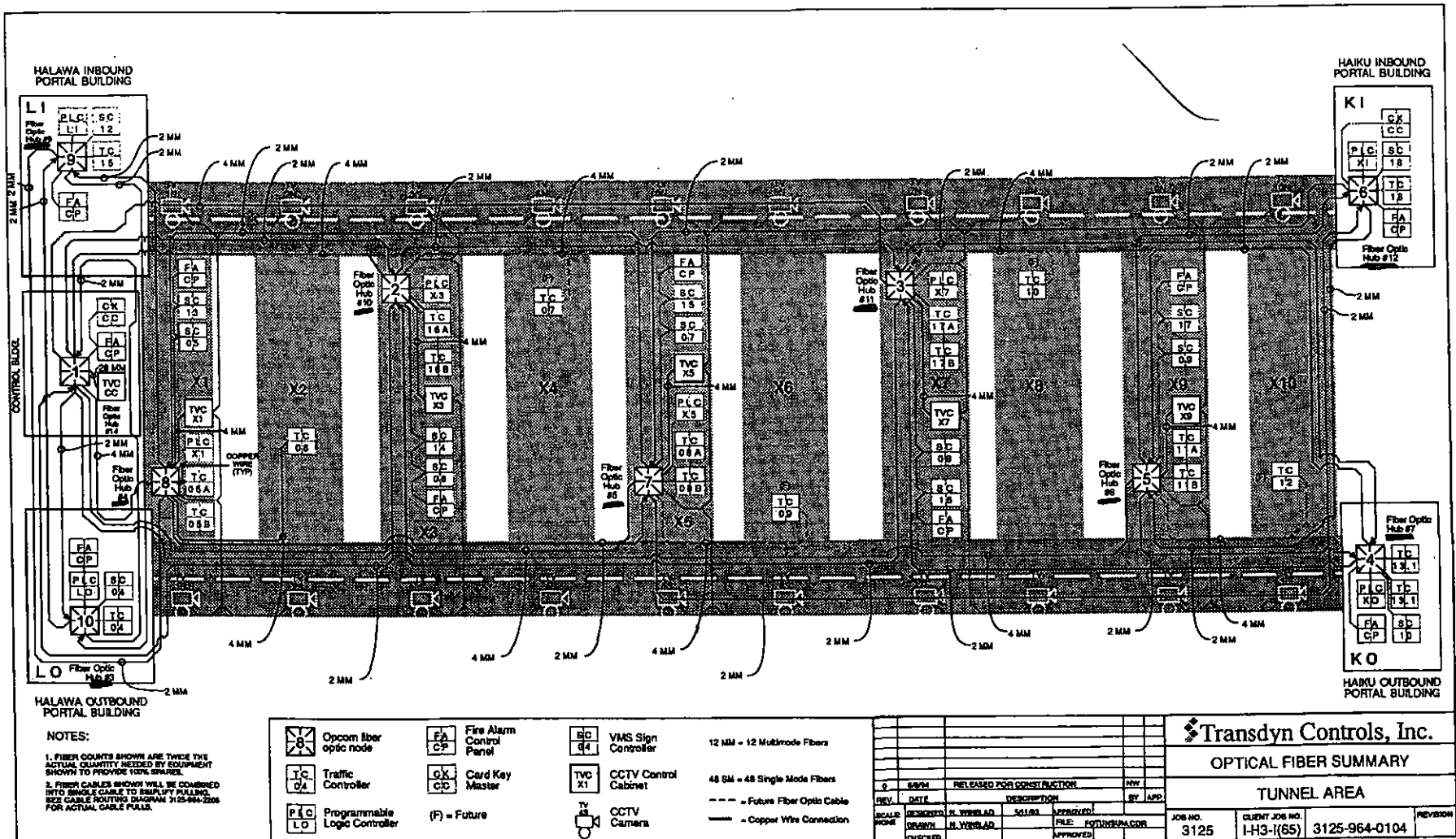


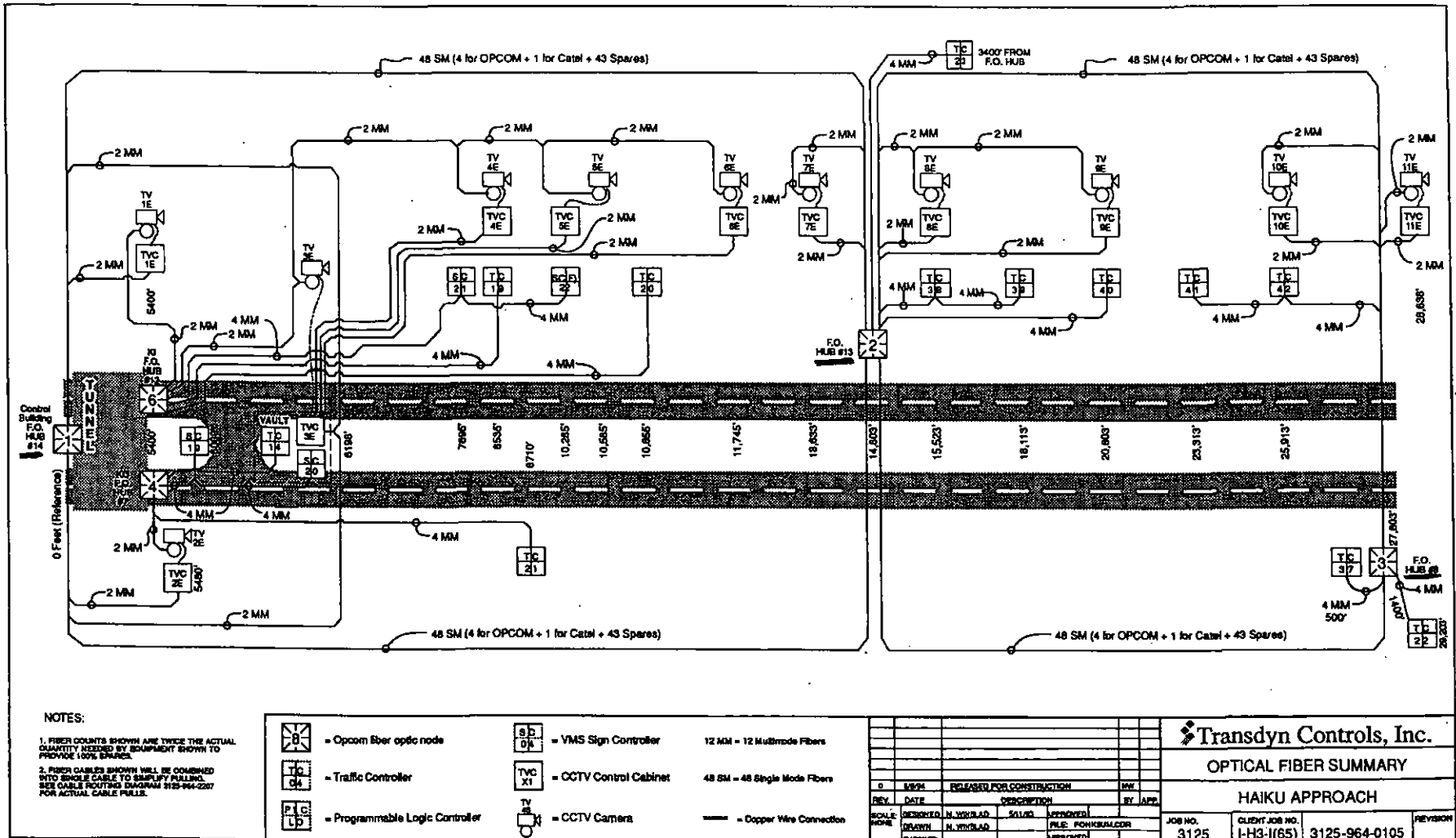
H3 - Fiber Optic Data Network Rings - Block Diagram (Nodes and Components)



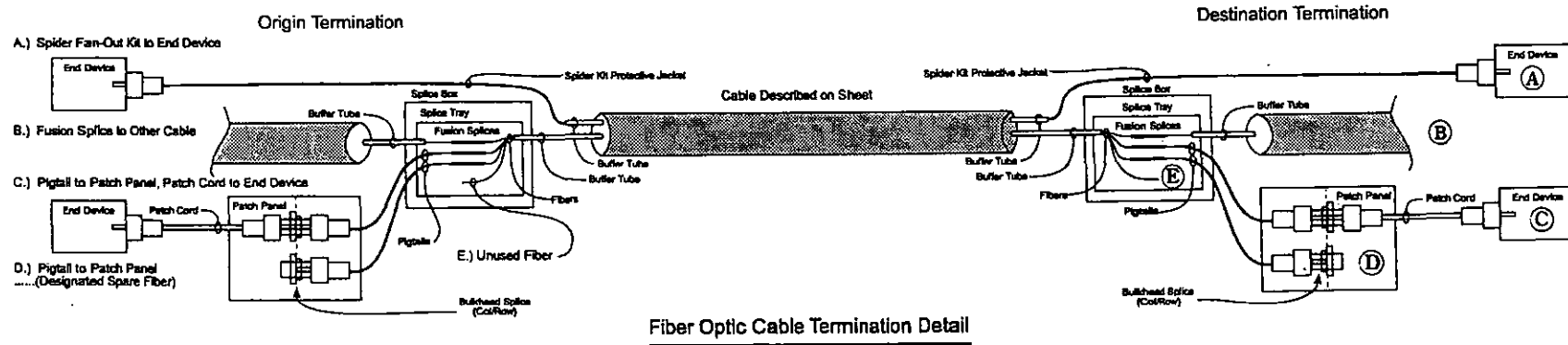
Transdyn Controls, Inc.				
INTERSTATE ROUTE H3				
DATA NETWORK COMPONENTS BLOCK DIAGRAM				
REV.	DATE	DESCRIPTION	BY	APP.
0	1/1/83	REVISION CHANGES	SW	
1	1/1/83	TVSE, SC18, IC20S CHANGED	SW	
2	1/1/83	CHANGED CHANGES	SW	
3	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
4	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
5	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
6	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
7	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
8	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
9	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
10	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
11	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
12	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
13	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
14	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
15	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
16	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
17	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
18	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
19	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
20	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
21	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
22	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
23	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
24	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
25	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
26	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
27	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
28	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
29	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
30	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
31	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
32	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
33	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
34	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
35	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
36	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
37	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
38	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
39	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
40	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
41	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
42	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
43	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
44	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
45	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
46	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
47	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
48	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
49	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
50	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
51	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
52	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
53	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
54	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
55	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
56	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
57	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
58	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
59	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
60	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
61	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
62	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
63	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
64	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
65	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
66	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
67	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
68	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
69	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
70	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
71	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
72	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
73	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
74	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
75	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
76	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
77	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
78	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
79	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
80	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
81	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
82	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
83	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
84	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
85	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
86	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
87	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
88	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
89	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
90	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
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92	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
93	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
94	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
95	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
96	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
97	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
98	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
99	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	
100	1/1/83	CHANGED CHANGES FOR RS FEEDBACK	SW	







Typical FO Termination Details



- A - Spider fan-out kit to end device
- B - Fusion splice to other cable
- C - Pigtail to patch panel, patch cord to end device
- D - Pigtail to patch panel (designated spare fiber)
- E - Unused (dark) fiber

Origin Termination FO Hub #10

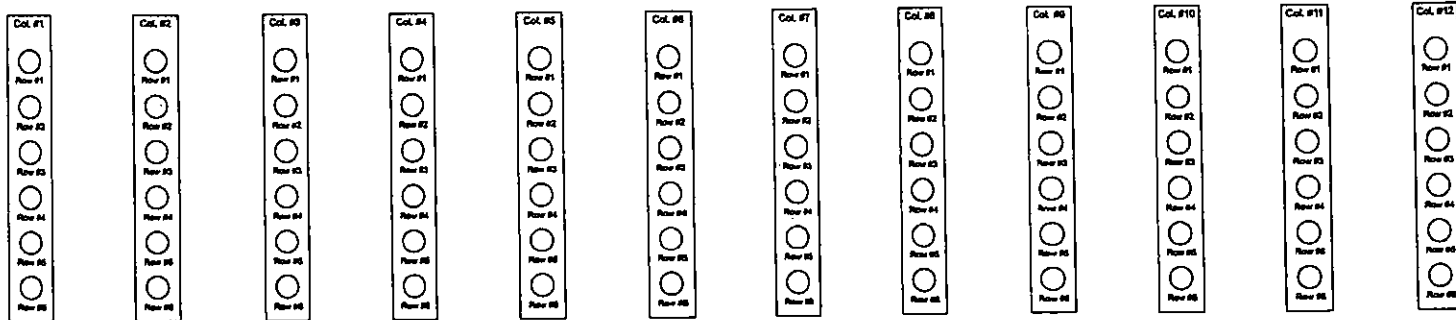
Cable #: FO10-002-FO4

Destination Termination: FO Hub #4

Origin Term. Type	Cable # (B) or Patchcord # (C) on Origin End	Origin Buffer Color (B) or End Device (A)	Origin Fiber Color (B)	Origin Splice Box # (B, C, D, or E)	Origin Splice Tray # (B, C, D, or E)	Origin Patch Box # (C or D)	Origin Patch Box Col/Row # (C or D)	Buffer Color	Fiber Color	Function	Functional Origin	Functional Destination	Dest. Term. Type	Cable # (B) or Patchcord # (C) on Destination Side	Destination Buffer Color (B) or End Device (A)	Dest. Fiber Color (B)	Dest. Splice Box # (B, C, D, or E)	Dest. Splice Tray # (B, C, D, or E)	Dest. Patch Box # (C or D)	Dest. Col/Row # (C or D)
B	FO5-002-FO10	BLU	BLU	SBFO10-1	3/1	N/A	N/A	BLU	BLU	TUN DNS SEC RING	OPCOM NODE 6	OPCOM NODE 7	C	FO4-103-OPCOM8	N/A	N/A	SBFO4-1	3/1	PBFO4-1	2/5
C	FO10-106-OPCOM2	N/A	N/A	SBFO10-1	3/13	PBFO10-1	1/4	BLU	ORG	TUN DNS SEC RING	OPCOM NODE 2	OPCOM NODE 1	B	FO4-002-FO3	BLU	ORG	SBFO4-1	3/2	N/A	N/A
B	FO5-002-FO10	BLU	GRN	SBFO10-1	3/3	N/A	N/A	BLU	GRN	TV 9S, 10S (Video)	TVC-X9	TVC-CC	B	FO4-002-FO3	BLU	GRN	SBFO4-1	3/3	N/A	N/A
B	FO5-002-FO10	BLU	BRN	SBFO10-1	3/4	N/A	N/A	BLU	BRN	TV 9N, 10N (Video)	TVC-X9	TVC-CC	B	FO4-002-FO3	BLU	BRN	SBFO4-1	3/4	N/A	N/A
B	FO5-002-FO10	BLU	SLT	SBFO10-1	3/5	N/A	N/A	BLU	SLT	TV 2E (Video)	TVC-2E	TVC-CC	B	FO4-002-FO3	BLU	SLT	SBFO4-1	3/5	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	3/6	N/A	N/A	BLU	WHT	UNUSED	N/A	N/A	E	N/A	N/A	N/A	SBFO4-1	3/6	N/A	N/A
B	FO5-002-FO10	ORG	BLU	SBFO10-1	3/7	N/A	N/A	ORG	BLU	(Spare) TUN DNS SEC RING	OPCOM NODE 8	OPCOM NODE 7	D	N/A	N/A	N/A	SBFO4-1	3/7	PBFO4-1	2/6
D	N/A	N/A	N/A	SBFO10-1	3/8	PBFO10-1	1/5	ORG	ORG	(Spare) TUN DNS SEC RING	OPCOM NODE 2	OPCOM NODE 1	B	FO4-002-FO3	ORG	ORG	SBFO4-1	3/8	N/A	N/A
B	FO5-002-FO10	ORG	GRN	SBFO10-1	3/9	N/A	N/A	ORG	GRN	(Spare) TV 9S, 10S (Video)	TVC-X9	TVC-CC	B	FO4-002-FO3	ORG	GRN	SBFO4-1	3/9	N/A	N/A
B	FO5-002-FO10	ORG	BRN	SBFO10-1	3/10	N/A	N/A	ORG	BRN	(Spare) TV 9N, 10N (Video)	TVC-X9	TVC-CC	B	FO4-002-FO3	ORG	BRN	SBFO4-1	3/10	N/A	N/A
B	FO5-002-FO10	ORG	SLT	SBFO10-1	3/11	N/A	N/A	ORG	SLT	(Spare) TV 2E (Video)	TVC-2E	TVC-CC	B	FO4-002-FO3	ORG	SLT	SBFO4-1	3/11	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	3/12	N/A	N/A	ORG	WHT	UNUSED	N/A	N/A	E	N/A	N/A	N/A	SBFO4-1	3/12	N/A	N/A
B	FO5-002-FO10	GRN	BLU	SBFO10-1	4/1	PBFO10-1	1/6	GRN	BLU	TV 5S, 6S (Video)	TVC-X5	TVC-CC	B	FO4-002-FO3	GRN	BLU	SBFO4-1	4/1	N/A	N/A
B	FO5-002-FO10	GRN	ORG	SBFO10-1	4/2	N/A	N/A	GRN	ORG	TV 5N, 6N (Video)	TVC-X5	TVC-CC	B	FO4-002-FO3	GRN	ORG	SBFO4-1	4/2	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/3	N/A	N/A	GRN	GRN	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/3	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/4	N/A	N/A	GRN	BRN	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/4	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/5	N/A	N/A	GRN	SLT	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/5	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/6	N/A	N/A	GRN	WHT	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/6	N/A	N/A
B	FO5-002-FO10	BRN	BLU	SBFO10-1	4/7	N/A	N/A	BRN	BLU	(Spare) TV 5S, 6S (Video)	TVC-X5	TVC-CC	B	FO4-002-FO3	BRN	BLU	SBFO4-1	4/7	N/A	N/A
B	FO5-002-FO10	BRN	ORG	SBFO10-1	4/8	N/A	N/A	BRN	ORG	(Spare) TV 5N, 6N (Video)	TVC-X5	TVC-CC	B	FO4-002-FO3	BRN	ORG	SBFO4-1	4/8	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/9	N/A	N/A	BRN	GRN	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/9	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/10	N/A	N/A	BRN	BRN	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/10	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/11	N/A	N/A	BRN	SLT	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/11	N/A	N/A
E	N/A	N/A	N/A	SBFO10-1	4/12	N/A	N/A	BRN	WHT	UNUSED	UNUSED	UNUSED	E	N/A	N/A	N/A	SBFO4-1	4/12	N/A	N/A

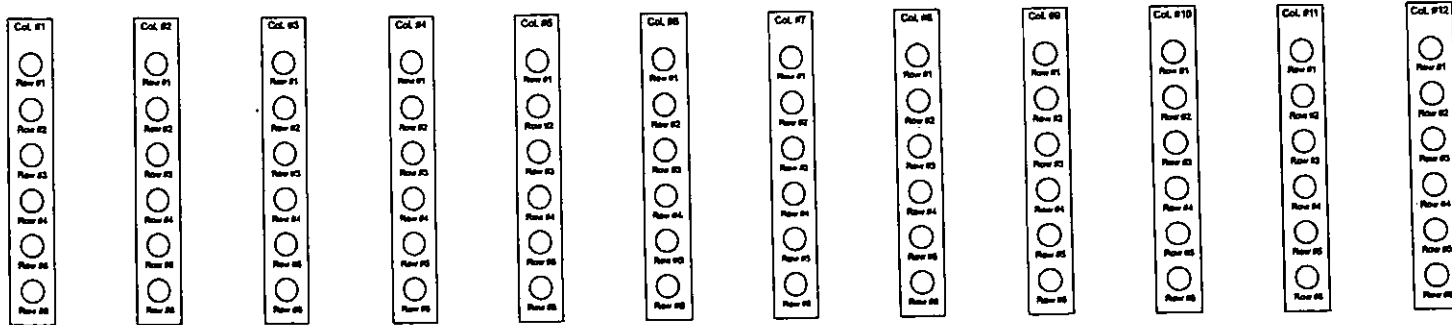
- A - Spider fan-out kit to end device
- B - Fusion splice to other cable
- C - Pigtail to patch panel, patch cord to end device
- D - Pigtail to patch panel (designated spare fiber)
- E - Unused (dark) fiber

Patch Box #: PBFO4-1

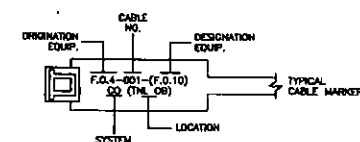
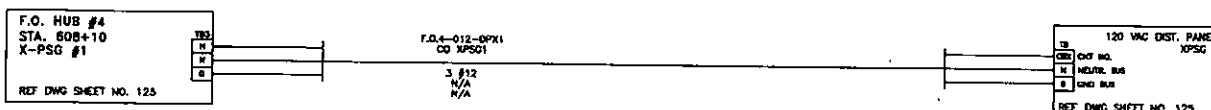
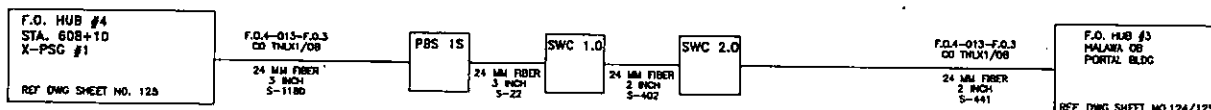
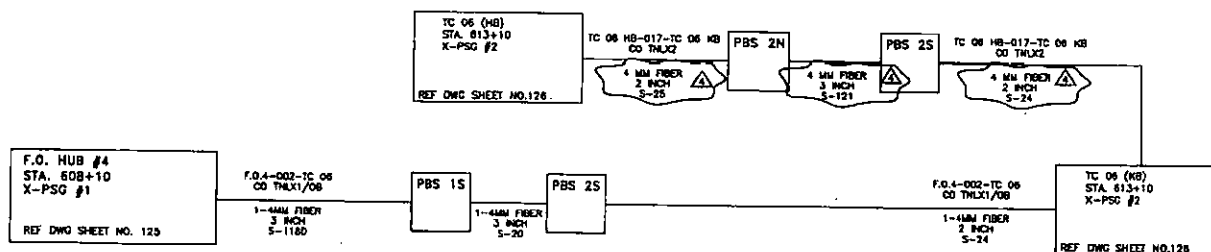
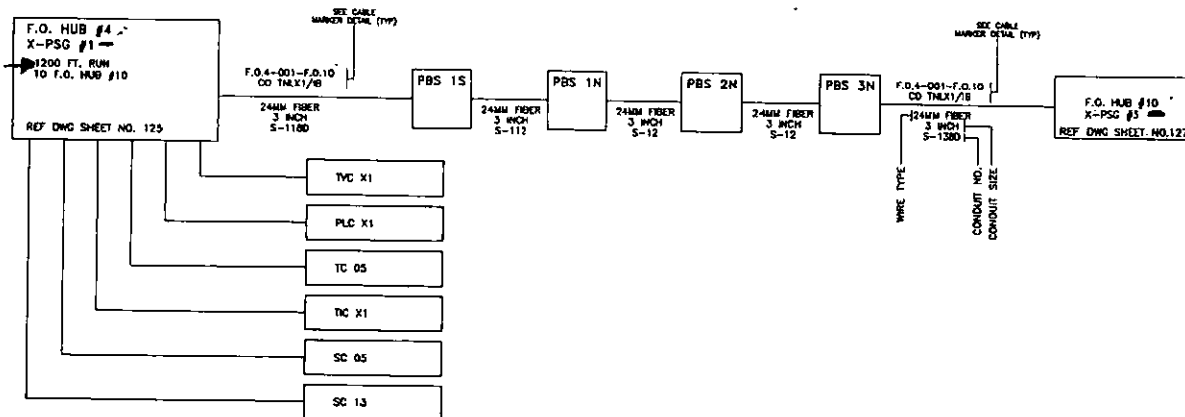


Row		Column #1	Column #2	Column #3	Column #4	Column #5	Column #6	Column #7	Column #8	Column #9	Column #10	Column #11	Column #12
1.	Front	FO4-101-OPCOM8	FO4-101-OPCOM8										
	Func.	OPCOM TX PRI (8-9)	OPCOM RX PRI (9-8)										
	Back	FO4-001-FO4	FO4-002-FO3										
2.	Front	SPARE	SPARE										
	Func.	OPCOM TX PRI (SPARE)	OPCOM RX PRI (SPARE)										
	Back	FO4-001-FO4	FO4-002-FO3										
3.	Front	SPARE	FO4-105-TVXC1										
	Func.	TVXC1 VIDEO 1S, 2S	TVXC1 VIDEO 1S, 2S										
	Back	FO4-002-FO3	FO4-002-FO3										
4.	Front	SPARE	FO4-106-TVXC1										
	Func.	TVXC1 VIDEO 1N, 2N	TVXC1 VIDEO 1N, 2N										
	Back	FO4-002-FO3	FO4-002-FO3										
5.	Front	FO4-103-OPCOM8	FO3-103-OPCOM8										
	Func.	OPCOM RX PRI (7-8)	OPCOM TX SEC (8-7)										
	Back	FO4-001-FO10	FO10-002-FO4										
6.	Front	SPARE	SPARE										
	Func.	OPCOM RX PRI (SPARE)	OPCOM TX SEC (SPARE)										
	Back	FO4-001-FO10	FO10-002-FO4										

Patch Box #: PBFO10-1



Row		Column #1	Column #2	Column #3	Column #4	Column #5	Column #6	Column #7	Column #8	Column #9	Column #10	Column #11	Column #12
1	Front	FO10-101-OPCOM2	FO10-101-OPCOM2										
	Func.	OPCOM RX PRI (1-2)	OPCOM TX PRI (2-3)										
	Back	FO4-001-FO10	FO10-001-F05										
2	Front	SPARE	SPARE										
	Func.	OPCOM RX PRI (SPARE)	OPCOM TX PRI (SPARE)										
	Back	FO4-001-FO10	FO10-001-F05										
3	Front	FO10-102-TVCI3	FO10-103-TVCI3										
	Func.	TVCI3, 3S, 4S VIDEO	TVCI3, 3W, 4W VIDEO										
	Back	FO4-001-FO10	FO4-001-FO10										
4	Front	F05-002-FO10	FO10-105-OPCOM2										
	Func.	OPCOM TX SEC (2-1)	OPCOM RX SEC (2-2)										
	Back	FO10-002-FO4	F05-002-FO10										
5	Front	SPARE	SPARE										
	Func.	OPCOM TX SEC (SPARE)	OPCOM RX SEC (SPARE)										
	Back	FO10-002-FO4	F05-002-FO10										
6	Front	SPARE	SPARE										
	Func.	TVCI3, 3W, 4W VIDEO	TVCI3 1S, 4S VIDEO										
	Back	FO4-001-FO10	FO4-001-FO10										



CABLE MARKER DETAIL

4	12-08-84	CHANGED WIRING FROM 120VAC TO 200VAC	J.E.
3	08-25-84	CHANGED FIBER FROM 12MM TO 4MM FOR WIRING TO 120V	J.E.
2	07-08-84	REVISED FOR PERSONNEL	J.E.
1	04-25-84	REVISED AND RELOCATED TC-06 (H8)	J.E.
0	04-13-84	ISSUED FOR CONSTRUCTION	J.E.
REV.	DATE	DESCRIPTION	BY
SCALE:	APPROVED:	D. BETTY	APPROVED:
AS SHOWN	DRAWN:	E. COOPER	8-3-85
	CHECKED:	D. BETTY	APPROVED:
 TRANSDYN CONTROLS, INC.			
INTERSTATE ROUTE H-3 F.A.I. PROJECT NO. I-H3-1 (65) SUPERVISORY AND CONTROL SYSTEM WIRING DIAGRAM			
JOB NO.	3125	CUSTOMER NO.	3125-964-9010
			REVISION 4

