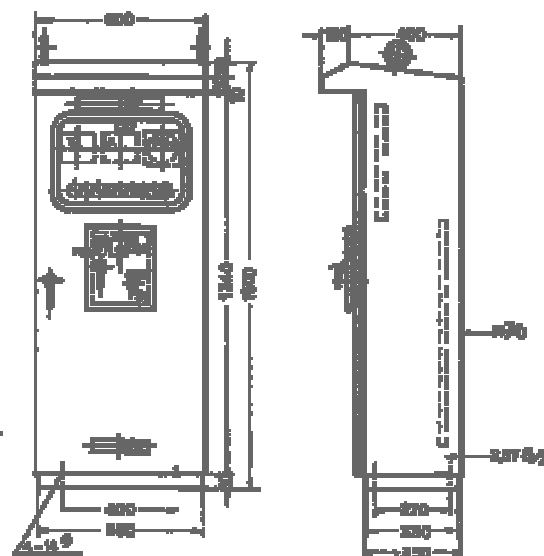


# NOTE

REFER TO DRAWING NO. JCOP106 FOR DETAILS  
POSITION OF THE CONTROL CABINET AND MOUNTING



AVOID SELECTING HEIGHTS (400-1140)  
CONTROL BOARD 2.5t  
WITH REVER ACCESS DOORS

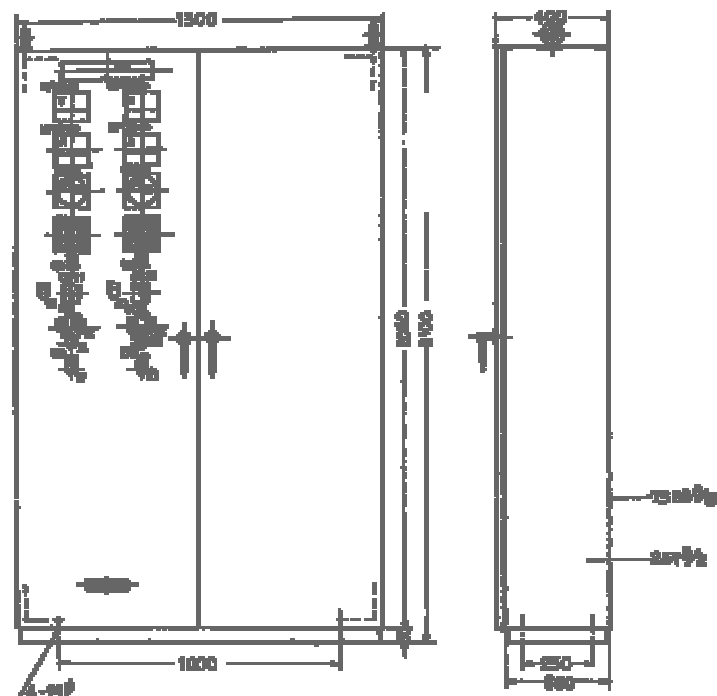
OUTLINE COLOR	K1/0
SHIELD COLOR	SHD/2
TEXT COLOR	TEXT/4
LINE	40
LINE	700
LINE	50

NO.	A	B	C	D	E	F	G	H	I
①	240-110mm (1)	240-110mm (2)	240-110mm (3)						
②	240-110mm (1)	240-110mm (2)	240-110mm (3)						
③	240-110mm (1)	240-110mm (2)	240-110mm (3)						
④	240-110mm (1)	240-110mm (2)	240-110mm (3)						
⑤	240-110mm (1)	240-110mm (2)	240-110mm (3)						
⑥	240-110mm (1)	240-110mm (2)	240-110mm (3)						
⑦	240-110mm (1)	240-110mm (2)	240-110mm (3)						
⑧	240-110mm (1)	240-110mm (2)	240-110mm (3)						
⑨	240-110mm (1)	240-110mm (2)	240-110mm (3)						
⑩	240-110mm (1)	240-110mm (2)	240-110mm (3)						

## INHALE GATE MOUNT LOCAL CONTROL CABINET

NO.	NAME	UNIT	NO.	NAME	UNIT
①	POWER SWITCH	SW	①	POWER SWITCH	SW
②	CONTROL SWITCH	SW	②	CONTROL SWITCH	SW
③	EMERGENCY STOP	SW	③	EMERGENCY STOP	SW
④	INHALE GATE MOUNT	SW	④	INHALE GATE MOUNT	SW
⑤	LOCAL CONTROL CABINET	SW	⑤	LOCAL CONTROL CABINET	SW
⑥	LOCAL CONTROL CABINET	SW	⑥	LOCAL CONTROL CABINET	SW
⑦	LOCAL CONTROL CABINET	SW	⑦	LOCAL CONTROL CABINET	SW
⑧	LOCAL CONTROL CABINET	SW	⑧	LOCAL CONTROL CABINET	SW
⑨	LOCAL CONTROL CABINET	SW	⑨	LOCAL CONTROL CABINET	SW
⑩	LOCAL CONTROL CABINET	SW	⑩	LOCAL CONTROL CABINET	SW
⑪	LOCAL CONTROL CABINET	SW	⑪	LOCAL CONTROL CABINET	SW
⑫	LOCAL CONTROL CABINET	SW	⑫	LOCAL CONTROL CABINET	SW
⑬	LOCAL CONTROL CABINET	SW	⑬	LOCAL CONTROL CABINET	SW
⑭	LOCAL CONTROL CABINET	SW	⑭	LOCAL CONTROL CABINET	SW
⑮	LOCAL CONTROL CABINET	SW	⑮	LOCAL CONTROL CABINET	SW
⑯	LOCAL CONTROL CABINET	SW	⑯	LOCAL CONTROL CABINET	SW
⑰	LOCAL CONTROL CABINET	SW	⑰	LOCAL CONTROL CABINET	SW
⑱	LOCAL CONTROL CABINET	SW	⑱	LOCAL CONTROL CABINET	SW
⑲	LOCAL CONTROL CABINET	SW	⑲	LOCAL CONTROL CABINET	SW
⑳	LOCAL CONTROL CABINET	SW	⑳	LOCAL CONTROL CABINET	SW
㉑	LOCAL CONTROL CABINET	SW	㉑	LOCAL CONTROL CABINET	SW
㉒	LOCAL CONTROL CABINET	SW	㉒	LOCAL CONTROL CABINET	SW
㉓	LOCAL CONTROL CABINET	SW	㉓	LOCAL CONTROL CABINET	SW
㉔	LOCAL CONTROL CABINET	SW	㉔	LOCAL CONTROL CABINET	SW
㉕	LOCAL CONTROL CABINET	SW	㉕	LOCAL CONTROL CABINET	SW
㉖	LOCAL CONTROL CABINET	SW	㉖	LOCAL CONTROL CABINET	SW
㉗	LOCAL CONTROL CABINET	SW	㉗	LOCAL CONTROL CABINET	SW
㉘	LOCAL CONTROL CABINET	SW	㉘	LOCAL CONTROL CABINET	SW
㉙	LOCAL CONTROL CABINET	SW	㉙	LOCAL CONTROL CABINET	SW
㉚	LOCAL CONTROL CABINET	SW	㉚	LOCAL CONTROL CABINET	SW
㉛	LOCAL CONTROL CABINET	SW	㉛	LOCAL CONTROL CABINET	SW
㉜	LOCAL CONTROL CABINET	SW	㉜	LOCAL CONTROL CABINET	SW
㉝	LOCAL CONTROL CABINET	SW	㉝	LOCAL CONTROL CABINET	SW
㉞	LOCAL CONTROL CABINET	SW	㉞	LOCAL CONTROL CABINET	SW
㉟	LOCAL CONTROL CABINET	SW	㉟	LOCAL CONTROL CABINET	SW
㊱	LOCAL CONTROL CABINET	SW	㊱	LOCAL CONTROL CABINET	SW
㊲	LOCAL CONTROL CABINET	SW	㊲	LOCAL CONTROL CABINET	SW
㊳	LOCAL CONTROL CABINET	SW	㊳	LOCAL CONTROL CABINET	SW
㊴	LOCAL CONTROL CABINET	SW	㊴	LOCAL CONTROL CABINET	SW
㊵	LOCAL CONTROL CABINET	SW	㊵	LOCAL CONTROL CABINET	SW
㊶	LOCAL CONTROL CABINET	SW	㊶	LOCAL CONTROL CABINET	SW
㊷	LOCAL CONTROL CABINET	SW	㊷	LOCAL CONTROL CABINET	SW
㊸	LOCAL CONTROL CABINET	SW	㊸	LOCAL CONTROL CABINET	SW
㊹	LOCAL CONTROL CABINET	SW	㊹	LOCAL CONTROL CABINET	SW
㊺	LOCAL CONTROL CABINET	SW	㊺	LOCAL CONTROL CABINET	SW
㊻	LOCAL CONTROL CABINET	SW	㊻	LOCAL CONTROL CABINET	SW
㊼	LOCAL CONTROL CABINET	SW	㊼	LOCAL CONTROL CABINET	SW
㊽	LOCAL CONTROL CABINET	SW	㊽	LOCAL CONTROL CABINET	SW
㊾	LOCAL CONTROL CABINET	SW	㊾	LOCAL CONTROL CABINET	SW
㊿	LOCAL CONTROL CABINET	SW	㊿	LOCAL CONTROL CABINET	SW

Electricite du Laos The Nam Ngum I Hydropower Station Rehabilitation Project			
DWN	K.Seto	SCALE	TITLE
CHKD	N.Nakato	—	Outline of Local Control Panel
APPD	N.Nakato	DATE	
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		15 <sup>th</sup> March, 2001	DWG NO JCOP106-32



APPROXIMATE STRUCTURAL DIMENSIONS (1400x1900)mm  
CONTROL BOARD 2.5'±  
WITH VENTILATION HOLES

SWITCH COLOR	TYPE NO.
EMERGENCY COLOR	RED
EMERGENCY	RED
EMERGENCY	RED
EMERGENCY	RED
EMERGENCY	RED

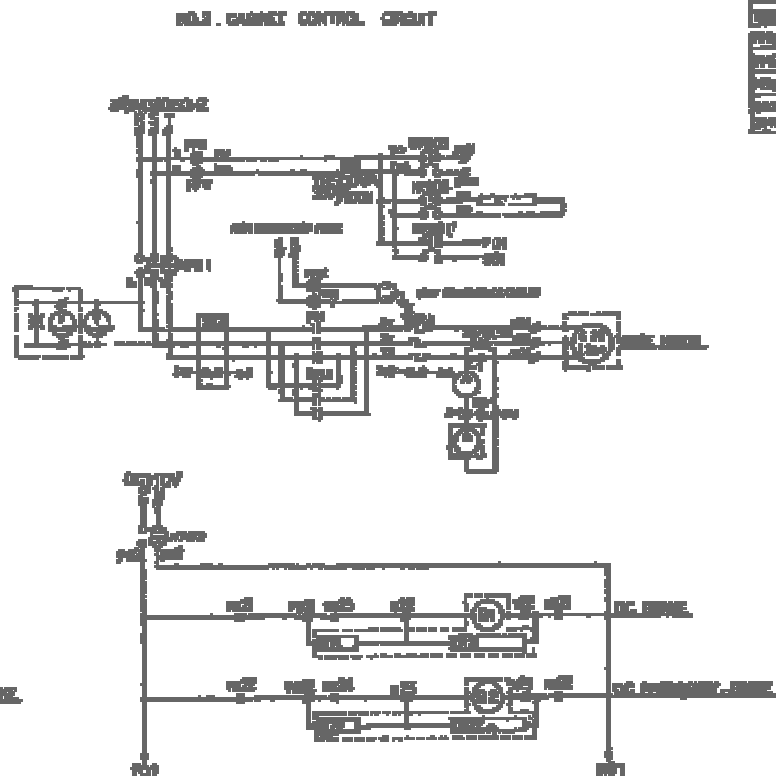
# REMOTE GATE HOIST REMOTE CONTROL CABINET

## REPERE DE SIGNES DE LA VERTICALE DE CHIFFRE DE TELECOMMANDE

01	NOI-100V-100V	02	NOI-100V-100V
03	NOI-100V-100V	04	NOI-100V-100V
05	NOI-100V-100V	06	NOI-100V-100V
07	NOI-100V-100V	08	NOI-100V-100V
09	NOI-100V-100V	10	NOI-100V-100V
11	NOI-100V-100V	12	NOI-100V-100V
13	NOI-100V-100V	14	NOI-100V-100V
15	NOI-100V-100V	16	NOI-100V-100V
17	NOI-100V-100V	18	NOI-100V-100V
19	NOI-100V-100V	20	NOI-100V-100V
21	NOI-100V-100V	22	NOI-100V-100V
23	NOI-100V-100V	24	NOI-100V-100V
25	NOI-100V-100V	26	NOI-100V-100V
27	NOI-100V-100V	28	NOI-100V-100V
29	NOI-100V-100V	30	NOI-100V-100V
31	NOI-100V-100V	32	NOI-100V-100V
33	NOI-100V-100V	34	NOI-100V-100V
35	NOI-100V-100V	36	NOI-100V-100V
37	NOI-100V-100V	38	NOI-100V-100V
39	NOI-100V-100V	40	NOI-100V-100V
41	NOI-100V-100V	42	NOI-100V-100V
43	NOI-100V-100V	44	NOI-100V-100V
45	NOI-100V-100V	46	NOI-100V-100V
47	NOI-100V-100V	48	NOI-100V-100V
49	NOI-100V-100V	50	NOI-100V-100V
51	NOI-100V-100V	52	NOI-100V-100V
53	NOI-100V-100V	54	NOI-100V-100V
55	NOI-100V-100V	56	NOI-100V-100V
57	NOI-100V-100V	58	NOI-100V-100V
59	NOI-100V-100V	60	NOI-100V-100V
61	NOI-100V-100V	62	NOI-100V-100V
63	NOI-100V-100V	64	NOI-100V-100V
65	NOI-100V-100V	66	NOI-100V-100V
67	NOI-100V-100V	68	NOI-100V-100V
69	NOI-100V-100V	70	NOI-100V-100V
71	NOI-100V-100V	72	NOI-100V-100V
73	NOI-100V-100V	74	NOI-100V-100V
75	NOI-100V-100V	76	NOI-100V-100V
77	NOI-100V-100V	78	NOI-100V-100V
79	NOI-100V-100V	80	NOI-100V-100V
81	NOI-100V-100V	82	NOI-100V-100V
83	NOI-100V-100V	84	NOI-100V-100V
85	NOI-100V-100V	86	NOI-100V-100V
87	NOI-100V-100V	88	NOI-100V-100V
89	NOI-100V-100V	90	NOI-100V-100V
91	NOI-100V-100V	92	NOI-100V-100V
93	NOI-100V-100V	94	NOI-100V-100V
95	NOI-100V-100V	96	NOI-100V-100V
97	NOI-100V-100V	98	NOI-100V-100V
99	NOI-100V-100V	100	NOI-100V-100V

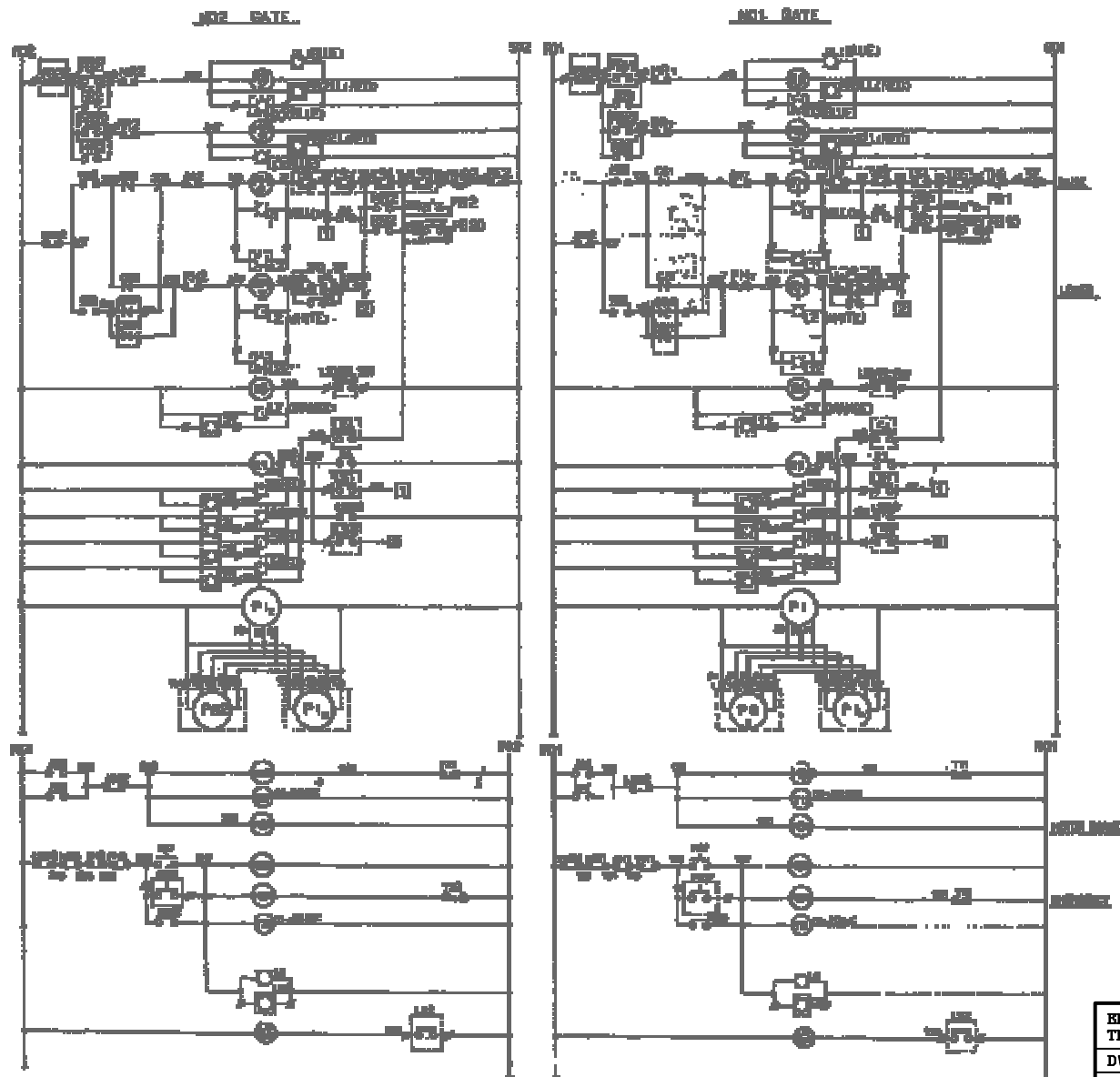
11	NOI-100V-100V	RED	11	NOI-100V-100V	RED
12	NOI-100V-100V	RED	12	NOI-100V-100V	RED
13	NOI-100V-100V	RED	13	NOI-100V-100V	RED
14	NOI-100V-100V	RED	14	NOI-100V-100V	RED
15	NOI-100V-100V	RED	15	NOI-100V-100V	RED
16	NOI-100V-100V	RED	16	NOI-100V-100V	RED
17	NOI-100V-100V	RED	17	NOI-100V-100V	RED
18	NOI-100V-100V	RED	18	NOI-100V-100V	RED
19	NOI-100V-100V	RED	19	NOI-100V-100V	RED
20	NOI-100V-100V	RED	20	NOI-100V-100V	RED
21	NOI-100V-100V	RED	21	NOI-100V-100V	RED
22	NOI-100V-100V	RED	22	NOI-100V-100V	RED
23	NOI-100V-100V	RED	23	NOI-100V-100V	RED
24	NOI-100V-100V	RED	24	NOI-100V-100V	RED
25	NOI-100V-100V	RED	25	NOI-100V-100V	RED
26	NOI-100V-100V	RED	26	NOI-100V-100V	RED
27	NOI-100V-100V	RED	27	NOI-100V-100V	RED
28	NOI-100V-100V	RED	28	NOI-100V-100V	RED
29	NOI-100V-100V	RED	29	NOI-100V-100V	RED
30	NOI-100V-100V	RED	30	NOI-100V-100V	RED

Electricite du Laos The Nam Ngum I Hydropower Station Rehabilitation Project			
DWN	K.Seto	SCALE	TITLE
CHKD	N.Nakato	—	Outline of Remote Control Panel
APPD	N.Nakato	DATE	
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		15 <sup>th</sup> March, 2001	DWG NO JCOP106-33

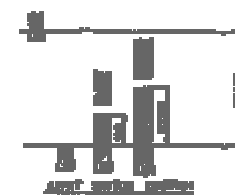


PT	FUSE BOX
FL	FLOOT LIGHT
P	POLYMER
PT	PROTECTOR
PT-2-1-10	PROTECTOR CABLE, 10mm
FL	FLOORING - LAMP
FL	FLOOR LIGHT
FL	FLOOR - FLOORING
P	PROTECTOR
PT-2	PROTECTOR RELAY
PT-2	PROTECTOR RELAY
PT-2-1	
PT-2-1	PROTECTOR CONDUCTOR
PT-2-1-10	
PT-2-1-10	
PT-2-1-10	

Electricite du Laos The Nam Ngum I Hydropower Station Rehabilitation Project			
DWN	K. Seto	SCALE	TITLE
CHKD	N. Nakato	—	Sequence Diagram of Intake Gate (1)
APPD	N. Nakato	DATE	
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		16 <sup>th</sup> March, 2001	DWG NO JCOP106-34

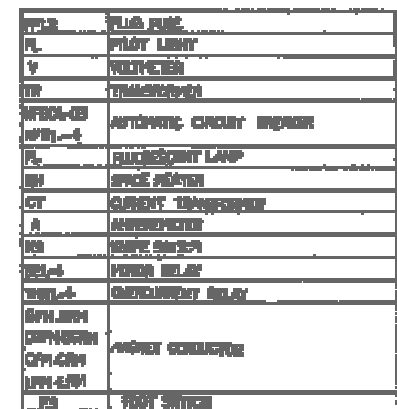


1.1	START SWITCH
1.2	STOP SWITCH
1.3	START SWITCH
1.4	STOP SWITCH
1.5	STOP SWITCH
1.6	STOP SWITCH
1.7	STOP SWITCH
1.8	STOP SWITCH
1.9	STOP SWITCH
1.10	STOP SWITCH
1.11	STOP SWITCH
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1.75	STOP SWITCH
1.76	STOP SWITCH
1.77	STOP SWITCH
1.78	STOP SWITCH
1.79	STOP SWITCH
1.80	STOP SWITCH
1.81	STOP SWITCH
1.82	STOP SWITCH
1.83	STOP SWITCH
1.84	STOP SWITCH
1.85	STOP SWITCH
1.86	STOP SWITCH
1.87	STOP SWITCH
1.88	STOP SWITCH
1.89	STOP SWITCH
1.90	STOP SWITCH
1.91	STOP SWITCH
1.92	STOP SWITCH
1.93	STOP SWITCH
1.94	STOP SWITCH
1.95	STOP SWITCH
1.96	STOP SWITCH
1.97	STOP SWITCH
1.98	STOP SWITCH
1.99	STOP SWITCH
1.100	STOP SWITCH



[ ] SERVICE CONTROL BOARD  
 [ ] OUTSIDE POWER  
 [ ] THERMAL TO OUTSIDE POWER

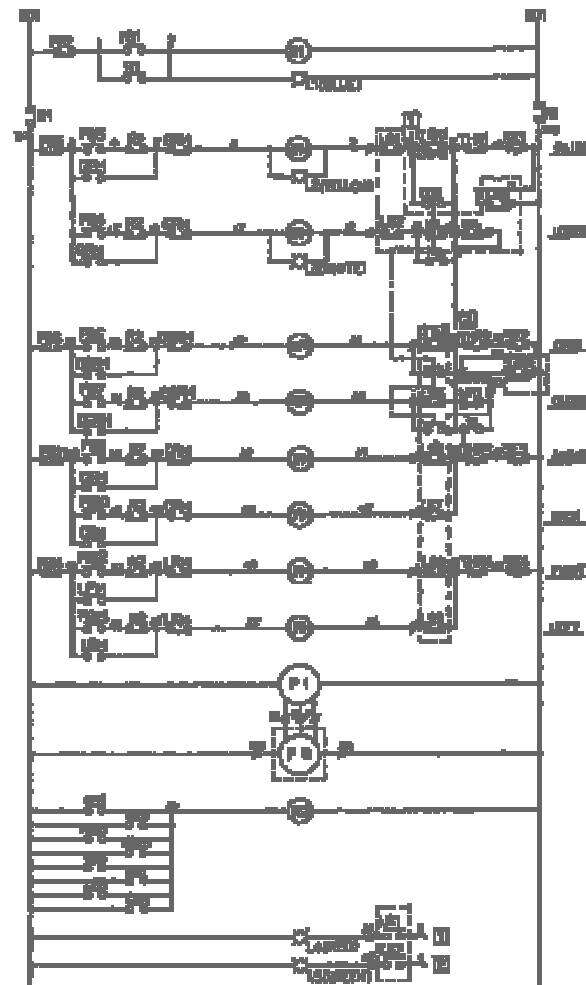
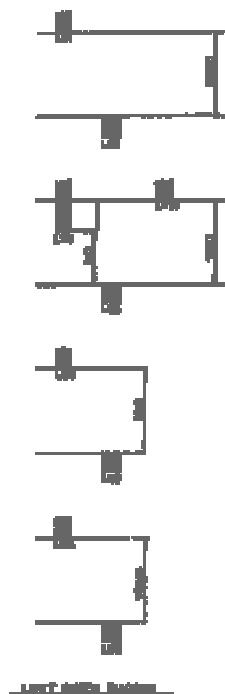
Electricite du Laos The Nam Ngum I Hydropower Station Rehabilitation Project				
DWN	K.Seto	SCALE	TITLE	
CHKD	N.Nakato	—	Sequence Diagram of Intake Gate (2)	
APPD	N.Nakato	DATE		
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		15 <sup>th</sup> March, 2001	DWG NO	JCOP106-36



☐ OUTLINE PAGES OF THE CONTROL BOX

☐ TYPED TO OUTLINE PAGES

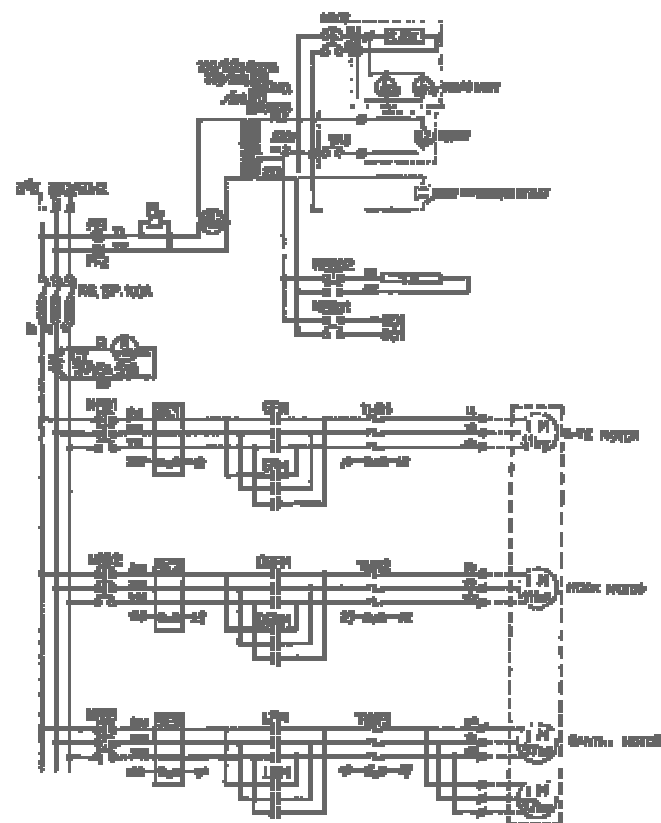
Electricite du Laos The Nam Ngum I Hydropower Station Rehabilitation Project				
DWN	K.Seto	SCALE	TITLE Sequence Diagram of Intake Gantry Crane (1)	
CHKD	N.Nakato	—		
APPD	N.Nakato	DATE		
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		15 <sup>th</sup> March, 2001	DWG NO	JCOP105-36



P1	CRANE POWER SUPPLY
P2	ALL STOP
L1	CRANE LIFT SWITCH
L2	CRANE LIFT SWITCH
P3	CRANE LIFT SWITCH FOR CRANE
P4	"CRANE" FUSION
P5	"CRANE" FUSION
P6	"CRANE" FUSION
P7	CRANE LIFT SWITCH FOR CRANE
P8	CRANE LIFT SWITCH
P9	CRANE LIFT SWITCH
P10	CRANE LIFT SWITCH
P11	CRANE LIFT SWITCH
P12	CRANE LIFT SWITCH
P13	CRANE LIFT SWITCH
P14	CRANE LIFT SWITCH
P15	CRANE LIFT SWITCH
P16	CRANE LIFT SWITCH
P17	CRANE LIFT SWITCH
P18	CRANE LIFT SWITCH
P19	CRANE LIFT SWITCH
P20	CRANE LIFT SWITCH
P21	CRANE LIFT SWITCH
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P23	CRANE LIFT SWITCH
P24	CRANE LIFT SWITCH
P25	CRANE LIFT SWITCH
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P27	CRANE LIFT SWITCH
P28	CRANE LIFT SWITCH
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P83	CRANE LIFT SWITCH
P84	CRANE LIFT SWITCH
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P89	CRANE LIFT SWITCH
P90	CRANE LIFT SWITCH
P91	CRANE LIFT SWITCH
P92	CRANE LIFT SWITCH
P93	CRANE LIFT SWITCH
P94	CRANE LIFT SWITCH
P95	CRANE LIFT SWITCH
P96	CRANE LIFT SWITCH
P97	CRANE LIFT SWITCH
P98	CRANE LIFT SWITCH
P99	CRANE LIFT SWITCH
P100	CRANE LIFT SWITCH

 CRANE LIFT SWITCH  
 CRANE LIFT SWITCH

Electricite du Laos The Nam Ngum I Hydropower Station Rehabilitation Project			
DWN	K.Seto	SCALE	TITLE
CHKD	N.Nakato	—	Sequence Diagram
APPD	N.Nakato	DATE	of Intake Gantry Crane (2)
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		15 <sup>th</sup> March, 2001	DWG NO JCOP106-37



PF <sub>1</sub> PF <sub>2</sub>	FUSE FUSE
PL	PLOT LIGHT
V	VOLT METER
TR	TRANSFORMER
NFB 200A	AUTOMATIC CIRCUIT BREAKER
NFB 100A	"
FL	FLUORESCENT LAMP
SH	SPACE HEATER
CT	CURRENT TRANSFORMER
A	AMPERE METER
SE 1-5	MOTOR RELAY
THW 1-5	OVERCURRENT RELAY
GFN, GGN	MAINNET CONDUCTOR
DFN, DGN	
LFN, LGN	
KB	SAFE SWITCH
FS	FOOT SWITCH

Electricite du Laos The Nam Ngum I Hydropower Station Rehabilitation Project			
DWN	K. Seto	SCALE	TITLE Sequence Diagram of Tailrace Gentry Crane (1)
CHKD	N. Nakato	—	
APPD	N. Nakato	DATE	
NIPPON KOEI CO., LTD. TOKYO, JAPAN		15 <sup>th</sup> March, 2001	DWG NO    JCOP106-38



