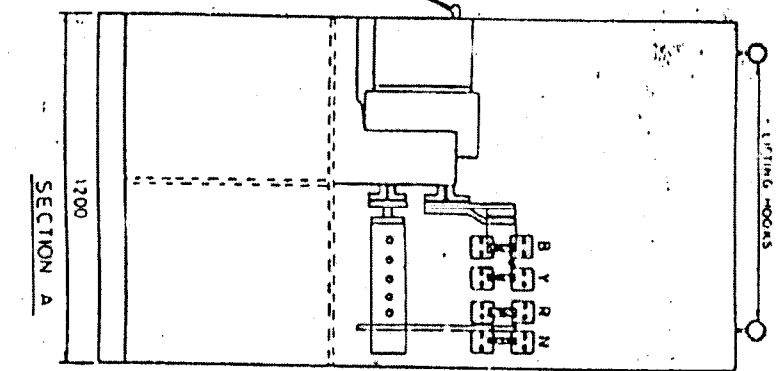
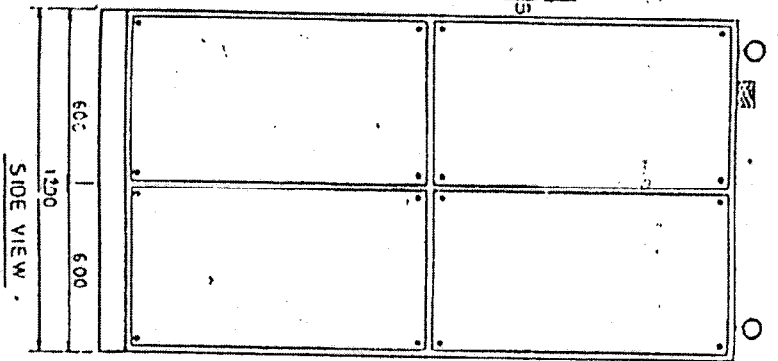
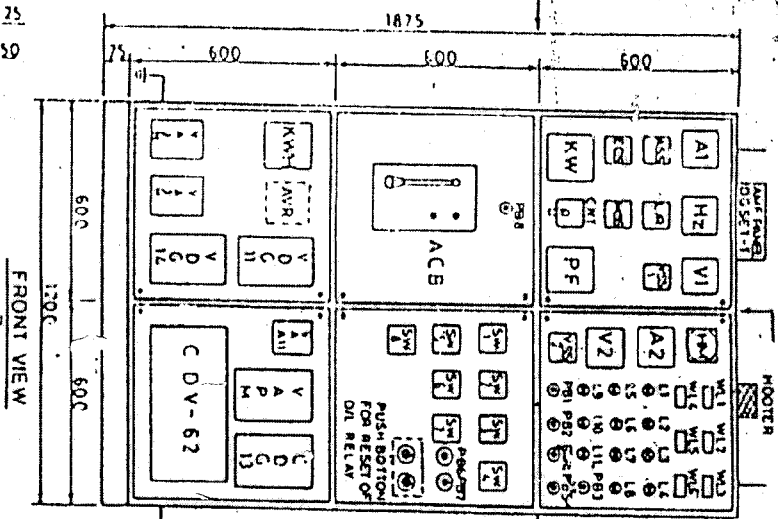
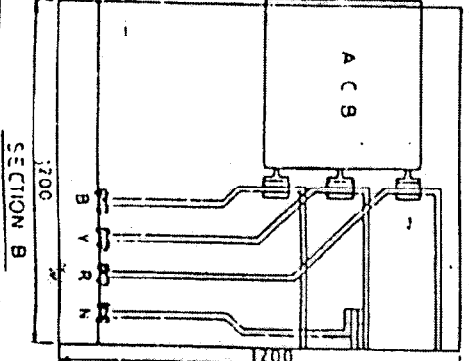
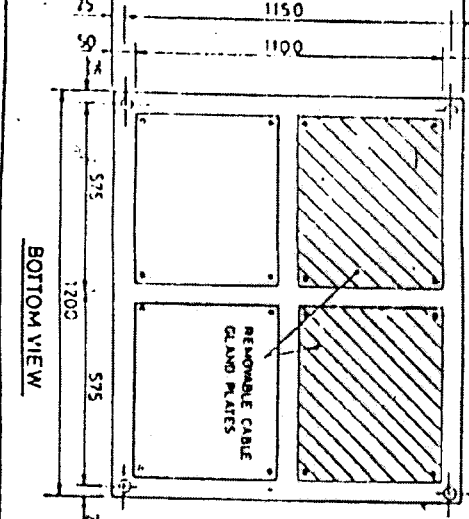




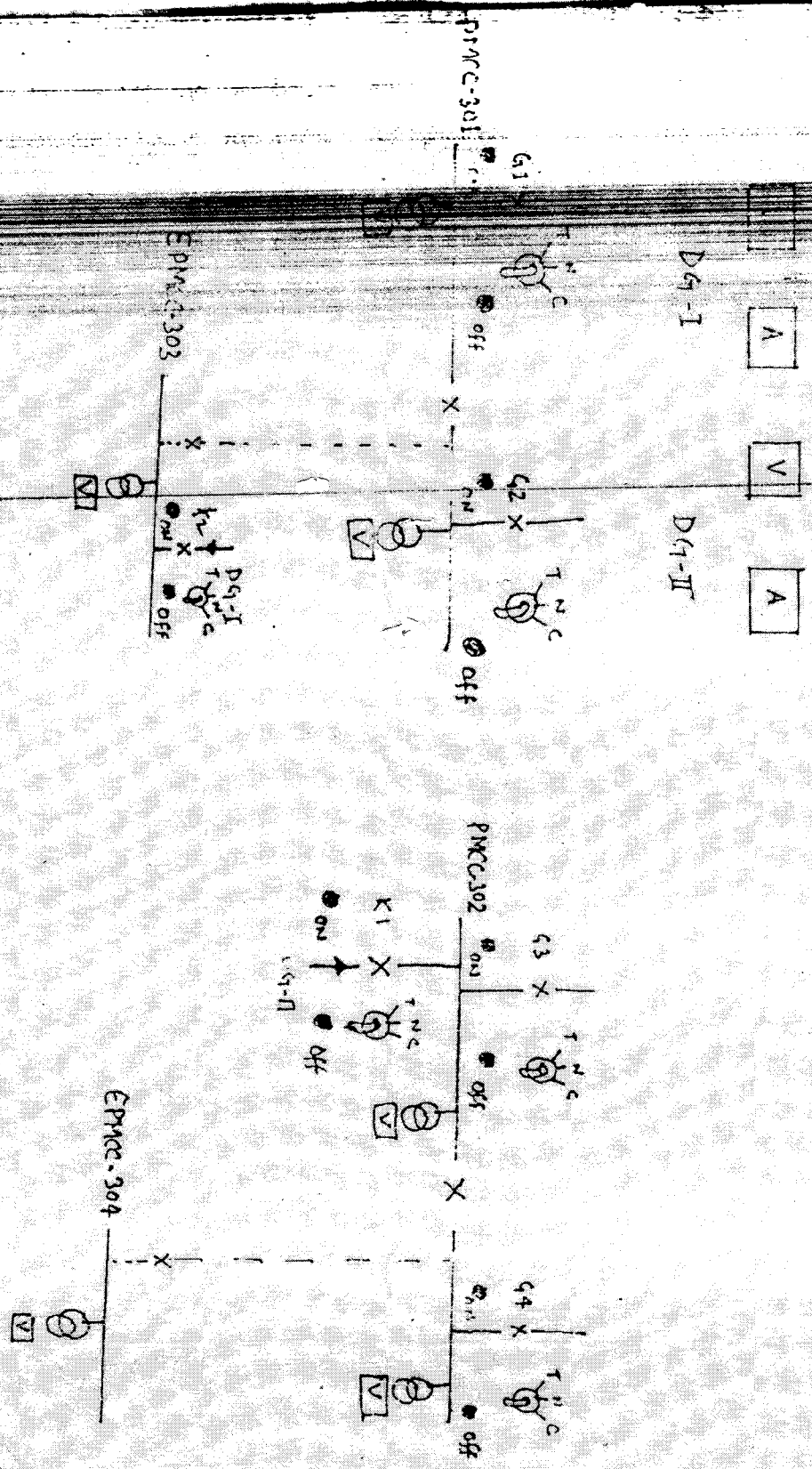
AL BUSBAR SIZE -
INCOMING
PHASE - 150X10
NEUTRAL-150X6
OUTGOING
PHASE - 150X10
NEUTRAL-150X6



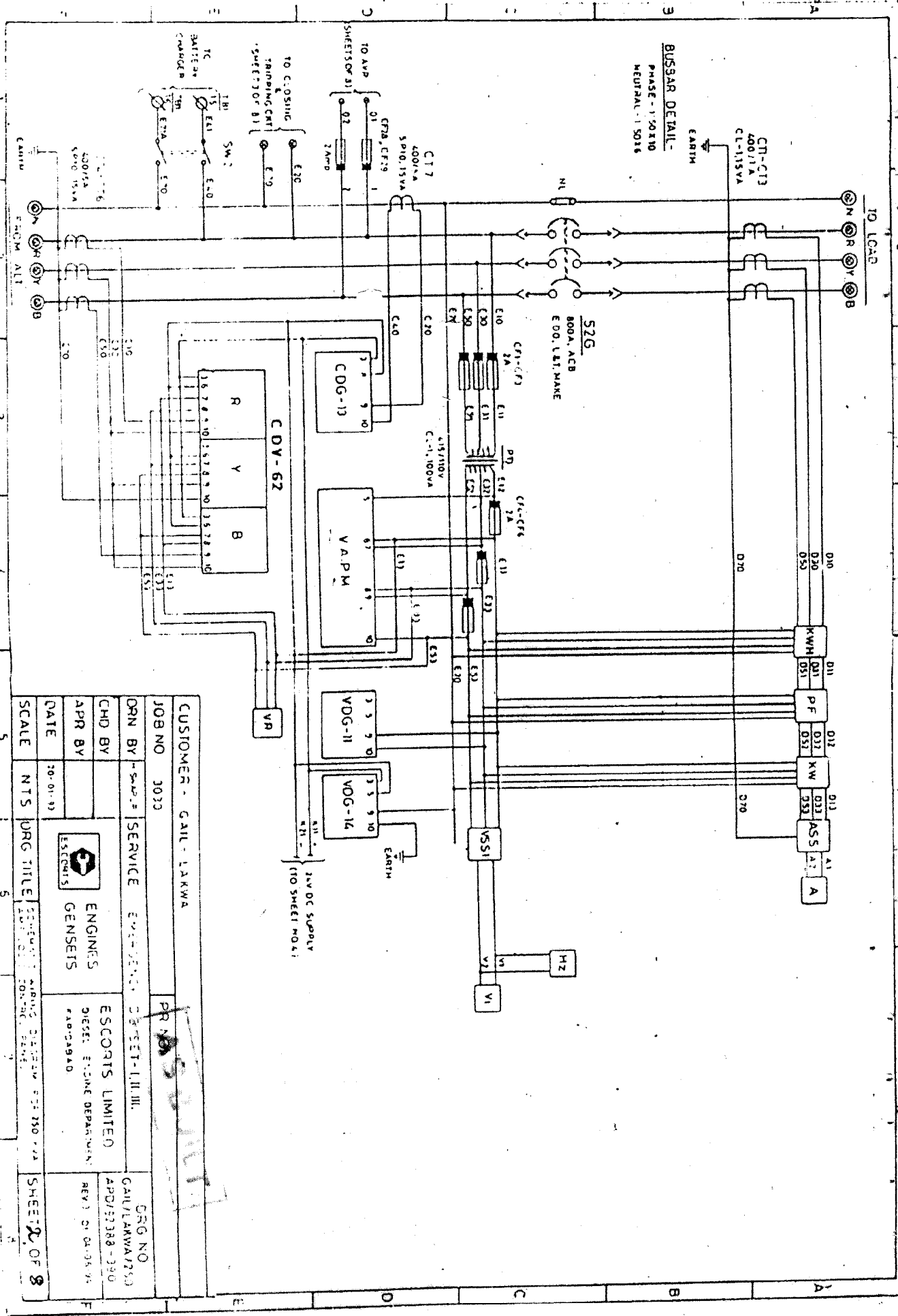
CUSTOMER - GAIL-LAKWA		PR NO.:	
JOB NO. : 3030		DRG. NO.:	
DRN BY	CHO BY	SERVICE : EMERGENCY DG SET - I, II, III	GAIL/LAKWA/250
APR BY	DATE	ESCAPES LIMITED	APD-9238-390
		DIESEL ENGINE DEPARTMENT	REL 24-04-94
SCALE	NTS	DRG TITLE	SHEET 1 OF 8

Layout of LT Distribution Control Desk

ANNEXURE-3

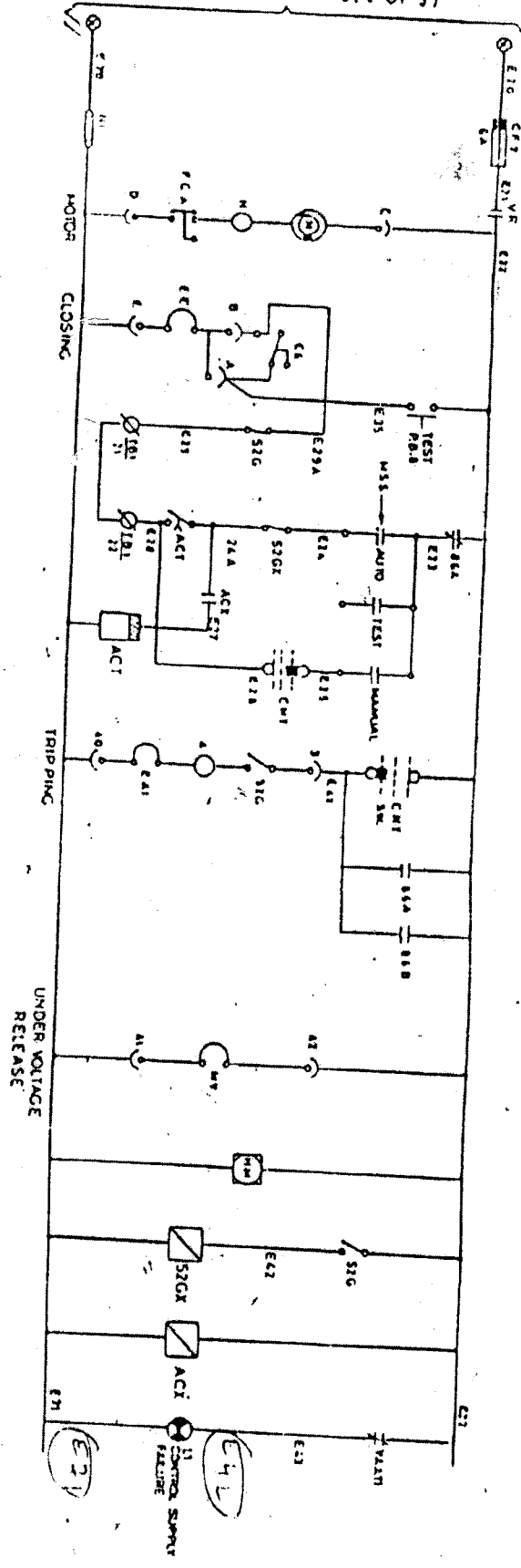


ASSEMBLY



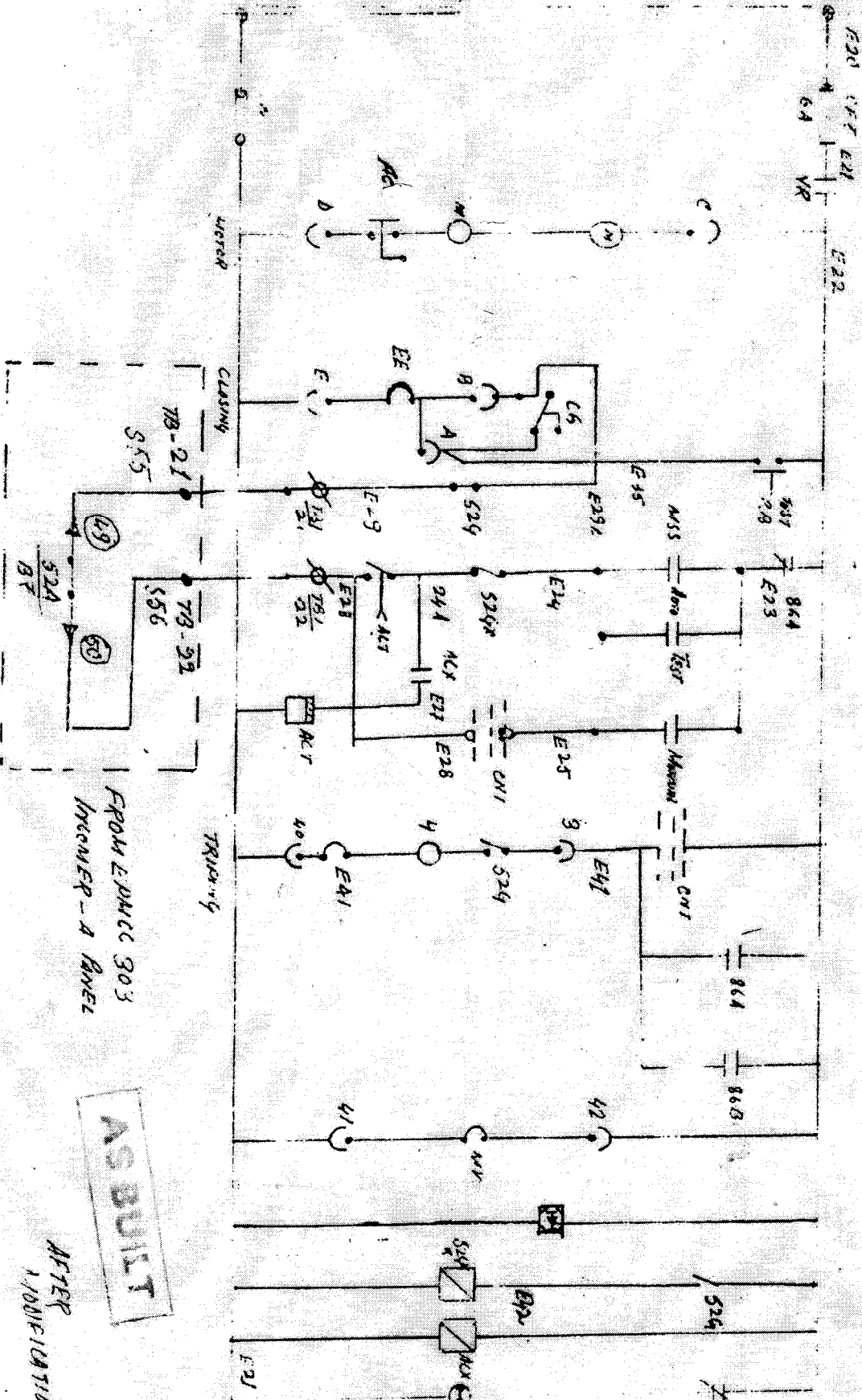
CUSTOMER - GAIL - LAKWA		PR NO. 52117	
JOB NO. 3033	SERVICE ENGINEER	DESIGNER	DRG NO. GAIL/LAKWA/250
CHKD BY	APPR BY	DATE	APPROVED
ESCOMTS LIMITED		DIRECT. ENGINE DEPARTMENT	
ESCOMTS		GENSETS	
SCALE		SHEET 2 OF 8	

(240V AC FROM SHEET NO. 2 OF 3)

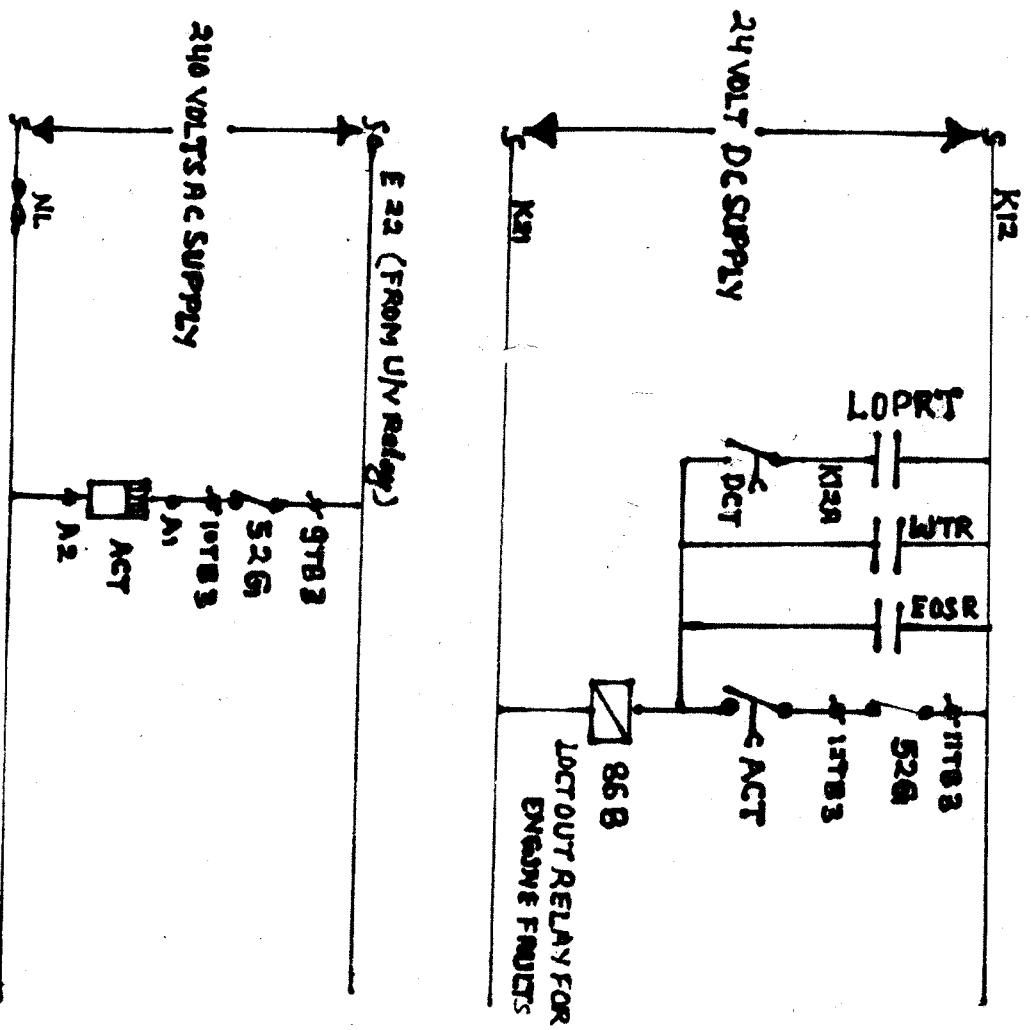


M - MOTOR
 FCA - LIMIT SWITCH
 C6 - SERVICE POSITION MICRO SWITCH
 EE - CLOSING ELECTRO MAGNET
 EAI - SHUNT RELEASE
 MV - UNDER VOLTAGE RELEASE

CUSTOMER - CALULAWA		PR NO. ACTIVITY	
JOB NO. 3030	SERVICE ENGINEER - D. S. S. III	DMS NO. CALULAWA/1750	
DRN BY - S.M.A.	DATE 20-01-93	APR BY	
ENGINE GENSETS		ESCORTS LIMITED	
DATE 20-01-93		20052388-390	
SCALE NTS 1/100		SHEET 3 OF 8	

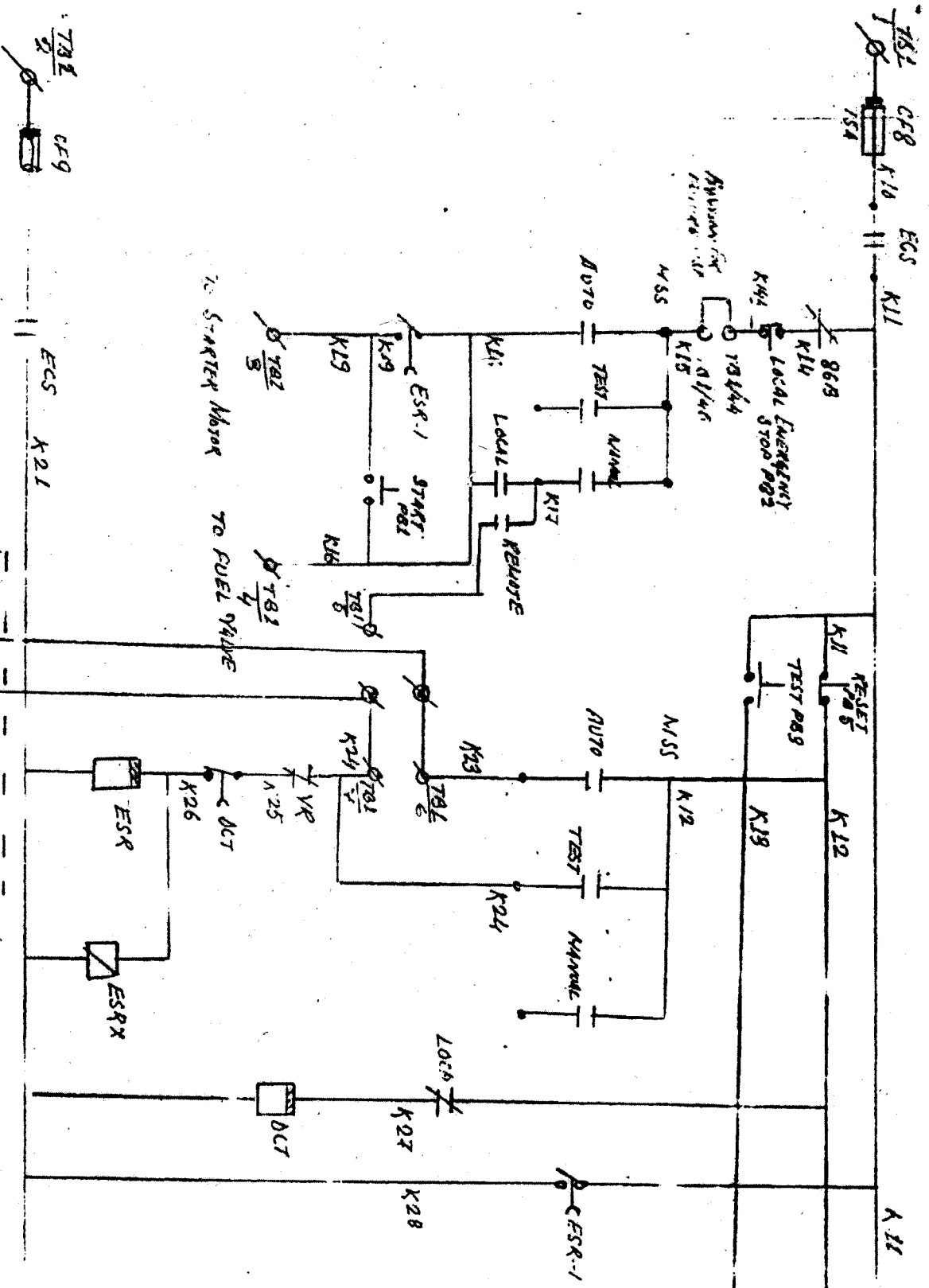


SCHEME FOR DG-1 & 2 DUELL TIME STOP



Reference (A) from DG Set drawing

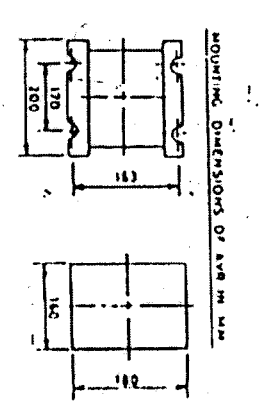
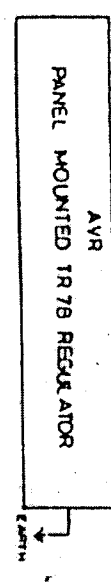
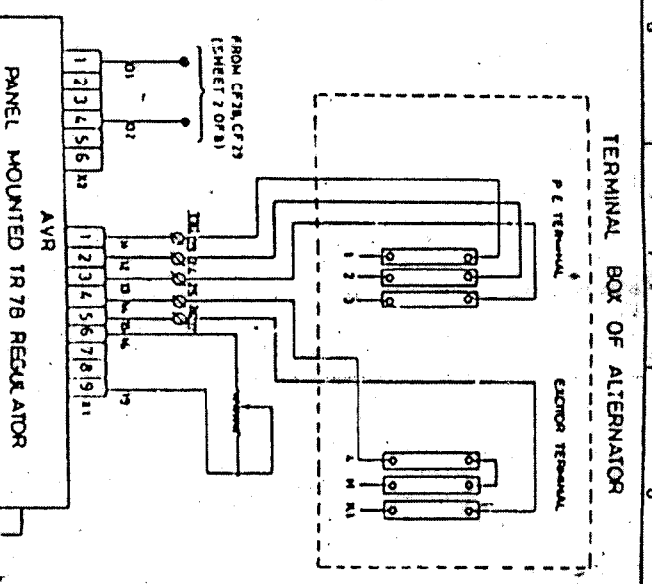
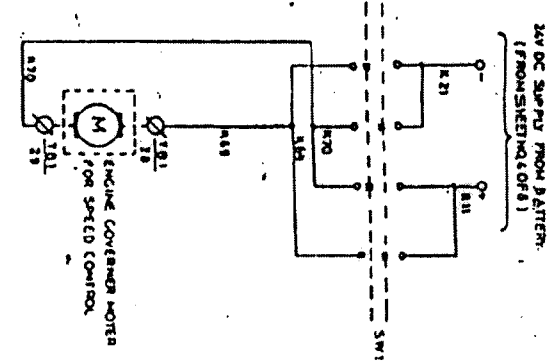
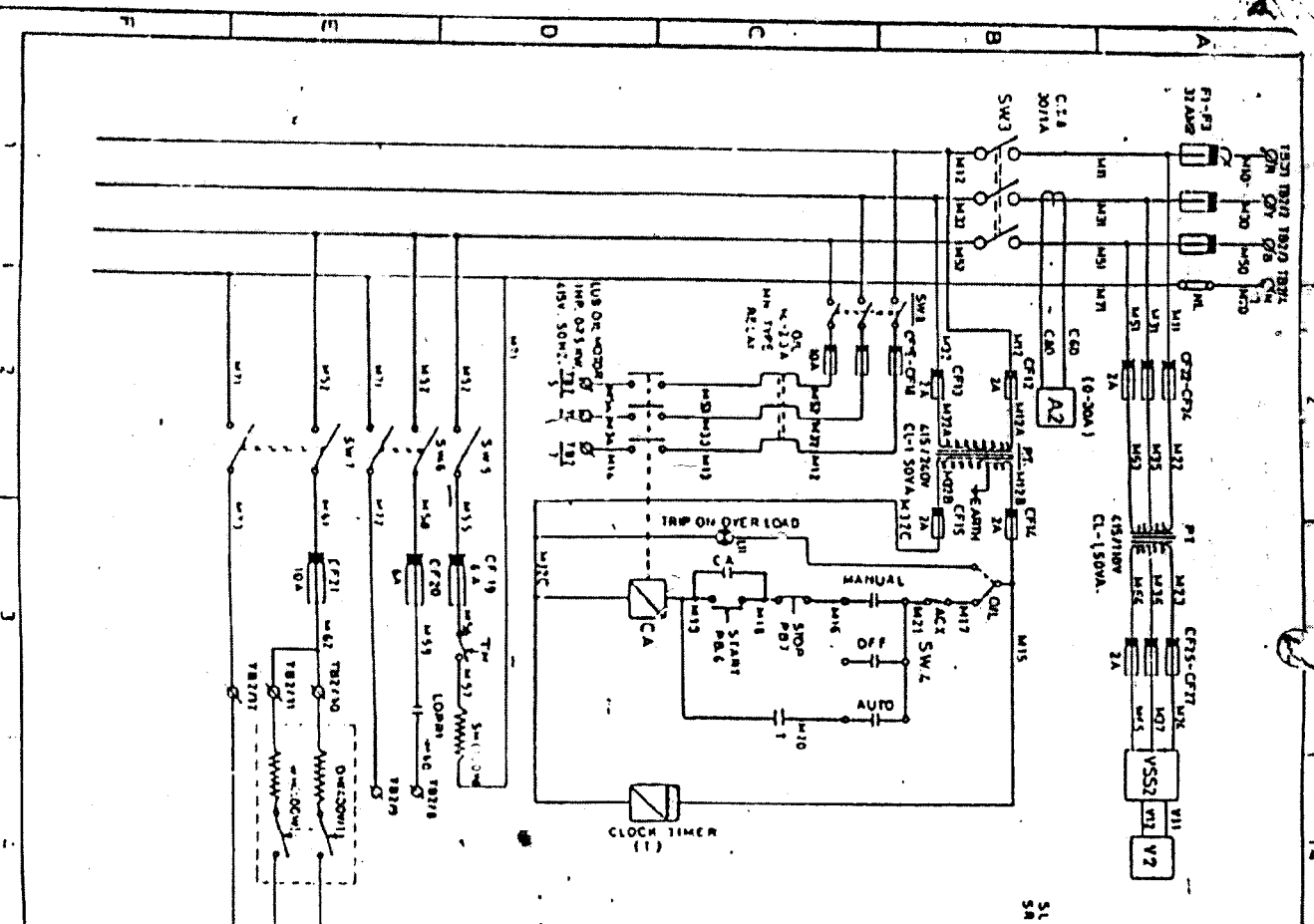




AFTER
 MODIFICATION

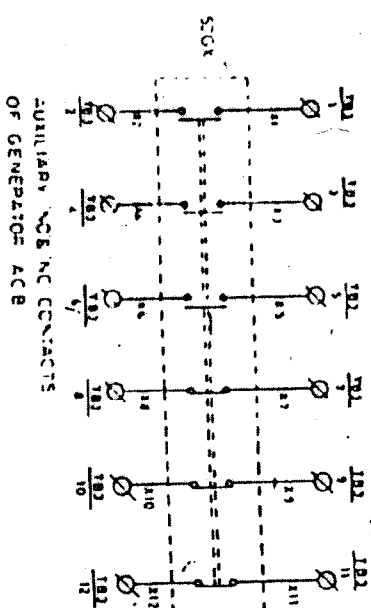
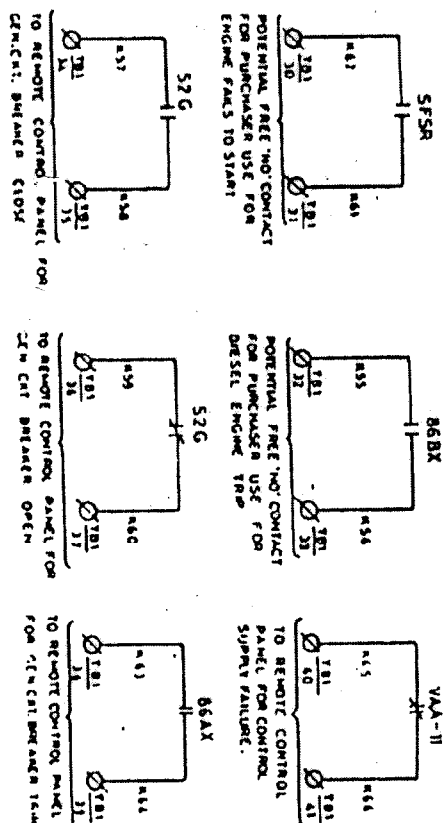
A-3011

FROM CONTACT 303
 INQUIRY-A PANEL

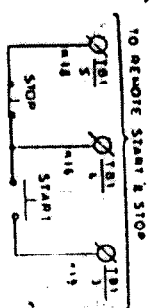
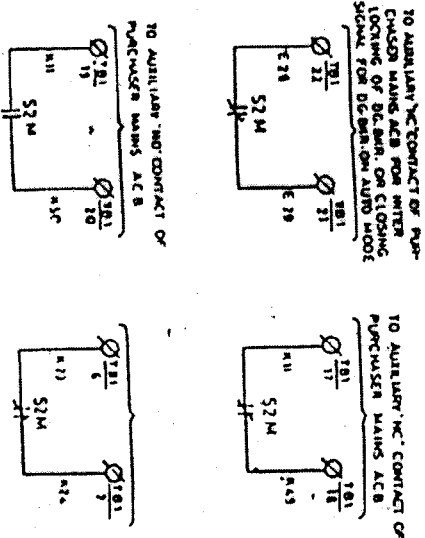


CUSTOMER - GAILAWA		PR NO.		DRG. NO.	
JOB NO	3030	SERVICE	EMERGENCY DO NOT LIFT.	APD/92368-390	
DRN BY		ENGINE	ESCORTS LIMITED	REV 3	20-05-94
APR BY		GENSETS	PANADABAD		
DATE	21.01.91				
SCALE	NTS	PRO TITLE			SHEET 5 OF 8

POTENTIAL FREE CONTACTS FOR PURCHASERS USE



PURCHASERS POTENTIAL FREE CONTACTS FOR SUPPLIER USE



CUSTOMER - GAILANWA		PR. NO.	ORG. NO.
JCB NO 3030	SERVICE - EMERGENCY DEPT. II		GAILANWA/MSI
OWN BY -			APC/32366-190
CHO BY -			
APR BY -			
DATE - 10/11/91	ENGINES	ESCORTS LIMITED	REC'D 20-08-91
	GENERATORS	REPAIR DEPARTMENT	
SCALE - 1:1			SHEET 6 OF 8

181	
N1	1
X1	2
N19	3
N16	4
N14	5
N12	6
N11	7
N10	8
N9	9
N8	10
N7	11
N6	12
N5	13
N4	14
N3	15
N2	16
N1	17
N0	18
N0	19
N0	20

TO 24V DC BATTERY
TO ENGINE TB NO 7
TO ENGINE TB NO 3
TO REMOT START (PURCHASER USE)
TO PURCHASER PANEL FOR
AUTO START SIGNAL
TO ENGINE TB NO 2.3
FOR BYPASS OF LUB OIL PRESS. SW
TO NC CONTACT OF LUB OIL PRESS. SW
TO NC CONTACT OF WATER TEMP SW
TO NC CONTACT OF MECHANICAL OVER
SPEED SW
TO NC CONTACT OF
FUEL (AUEL) SW
TO BATTERY CHARGER
TO AUXILIARY NC CONTACT OF
PURCHASER MAINS ACB
TO AUXILIARY NC CONTACT OF
PURCHASER MAINS ACB

181	
E12	21
E11	22
E10	23
E9	24
E8	25
E7	26
E6	27
E5	28
E4	29
E3	30
E2	31
E1	32
E0	33
E0	34
E0	35
E0	36
E0	37
E0	38
E0	39
E0	40
E0	41
E0	42
E0	43
E0	44
E0	45

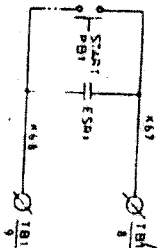
TO AUXILIARY NC CONTACT OF
PURCHASER MAINS ACB FOR INTER
LOCKING OF DC BREAKER ON CLOSING
SIGNAL FOR DC BREAKER ON AUTO MODE.
TO AVR
TO GOVERNOR MOTOR
FOR LOWER & RAISE
POTENTIAL FREE NC CONTACT FOR
PURCHASER USE FOR ENGINE START
POTENTIAL FREE NC CONTACT FOR
PURCHASER USE FOR DIESEL ENGINE
TEMP
TO REMOTE CONTROL PANEL FOR
GEN CIRCUIT BREAKER CLOSE
TO REMOTE CONTROL PANEL FOR
GEN CIRCUIT BREAKER OPEN
TO REMOTE CONTROL PANEL FOR
GEN CIRCUIT BREAKER TRIP
TO REMOTE CONTROL PANEL FOR
CONTROL SUPPLY FAILURE
TO NC CONTACT OF ALTERNATOR
WINDING TEMP SCANNER
PROVISION FOR FUTURE USE.

182	
M10	1
M9	2
M8	3
M7	4
M6	5
M5	6
M4	7
M3	8
M2	9
M1	10
M0	11
M0	12
M0	13
M0	14
M0	15

415V AC 3PHASE SUPPLY
FROM PURCHASER BOARD
TO LUB OIL PRIMING
PUMP MOTOR
TO ALTERNATOR
SPACE HEATER
TO ENGINE LUB OIL HEATER
CYLINDER JACKET HEATER

183	
X1	1
X2	2
X3	3
X4	4
X5	5
X6	6
X7	7
X8	8
X9	9
X10	10
X11	11
X12	12
X13	13
X14	14

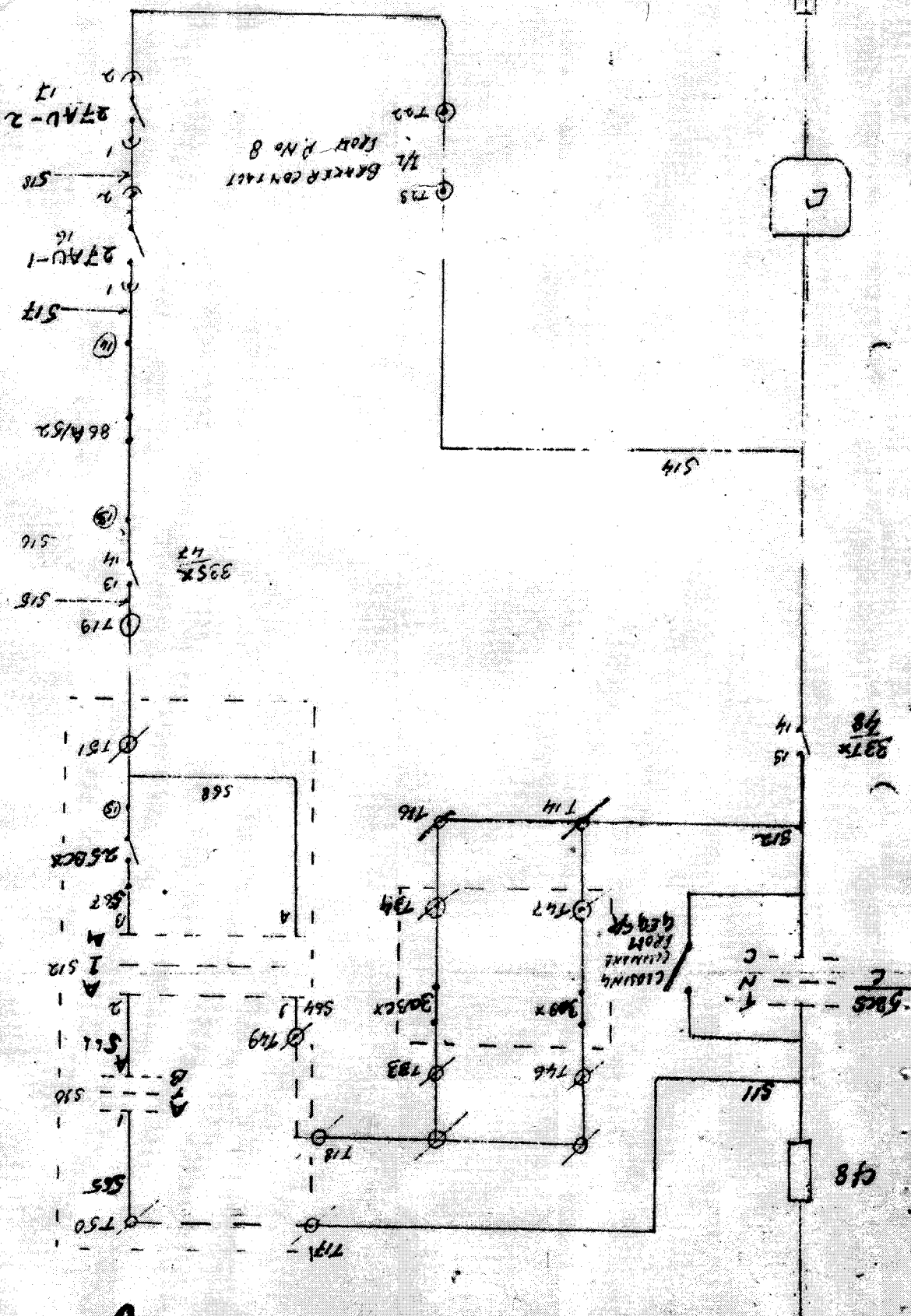
AUXILIARY NC CONTACT
OF GEN. CBT BMT
AUXILIARY NC CONTACT
OF GEN CBT BMT
AUXILIARY NC CONTACT
OF GEN CBT BMT
AUXILIARY NC CONTACT
OF GEN CBT BMT



CUSTOMER - GAIL/LAKWA			
JOB NO 3030		PR NO	
DRN BY - SAMP	SERVICE	EVE-GENCO DO SET-1, II, III	
CHD BY	ESCORTS LIMITED		
DATE	DIESEL ENGINE DEPARTMENT		
SCALE	NTS	ORG TITLE	SHEET 7 OF 8

for financial & reference

66



I/C A48 55#02 closing CRT.

CLOSING COMMONS FROM THIS PANEL

95

7
N
C

89-1

995-2

5-8

75

52/03 INC-A (15-16)

52/03 INC-B (15-16)

864 INC-A (17-18)

868 INC-B (17-18)

2740 INC-A (5-6)

2740 INC-B (5-6)

EXAM 1/6 OF 10471-GR8 JLP MCC 302

AS BUILT

96

INC A/B OF 301&302

SL. No	Core No.	Description	Contact From	Terminal No of IC
1	12	Close Command	From INC in LTDCD	20.21
2	34	Trip Command	From Remote Tripping (TNC in LTDCD)	30.31
3	5.6.7.8	Bus Voltage Indication	From R-Y-B 1φ	5.6.7.8
4	9.10	On Indication	From 30Ax-30Bx	52.53
5	14.12	Off Indication	From 52A/B2-52B/B2	24.25

EPMCC OF 303 ICA

SL NO	CORE NO	DESCRIPTION	CONTACT FROM	TERMINAL OF ICA
1	1.2	CLOSE COMMAND	TNC OF GEG	11.12
2	2.3.4	TRIP COMMAND	TNC OF GEG	7.8
3	5.6.7.8	BUS VOI TAG	LOOP OF BUS(M)	19.20
4	9.10	ON INDICATION	52A/A7	21.2
5	11.12	OFF INDICATION	52A/B7	

EPMCC OF 303 I/C B

SL NO	CORE NO	DESCRIPTION	CONTACT FROM	TERMINAL OF I/CB
1	1.2	CLOSE COMMAND	TNC OF GEG	58.60
2	2.3.4	TRIP COMMAND	TNC OF GEG	57.58
3	3.8	ON INDICATION	52B/A7	18.20
4	13.14	OFF INDICATION	52L B7	21.22

DG-1 TO EPMCC 303

SL NO	CORE NO	DESCRIPTION	CONTACT FROM	TERMINAL(EPMCC)
1	1.2	TO START DG-1	I/CB-52A/B7	17.18(I/C-A)
2	3.4	CLOSE COMMAND I/CB	FROM AMF PANEL	17.18(I/CB)
3	5.6	TRIP COMMAND I/CB	FROM AMF PANEL	7.8

* Core I/CB: I/C A (2.5 x 16) Core Cable

Terminal of ICA
6.7 T3-1
5.6 T8-3
9.10 T6-5

PANEL NO 8 TO GEG C/RTDCD

SL NO	CORE NO	DESCRIPTION	CONTACT FROM	TERMINAL OF P. NO 8	TERMINAL OF LTDCD
1.12		CLOSE COMMAND	TNC FROM LTDCD	3.4	
2.34		TRIP COMMAND	TNC FROM LTDCD	9.10	
3.56		OFF INDICATION	52/A	15.18	
4.78		OFF INDICATION	52/B5	17.18	

PANEL NO 8 TO DG-2

SL NO	CORE NO	DESCRIPTION	CONTACT FROM	TERMINAL OF P. NO 8	TERMINAL OF DG-2
1.12		START COMMAND TO DG-2	27/MAX (MAX OF ICA&B.302)	41.42	
2.34		CLOSE COMMAND TO P. NO 8	FROM AMF PANEL	5.8	
3.56		TRIP COMMAND TO P. NO 8	FROM AMF PANEL	7.8	

I/L FROM I/CA(302) TO PANEL NO 3

SL NO	CORE NO	DESCRIPTION	CONTACT FROM I/CA	TERMINAL OF I/CA	TERMINAL OF P. NO 8
1.12		I/L FOR STARTING	52A/B3	24.25	43.44
2.34		I/L FOR STARTING	86A		45.46
3.56		I/L FOR STARTING	27/AU1		47.48
4.78		I/L FOR I/CA CLOSING	52/B7	82.83	
5.8.10		START CON FOR DG-2(AUTO)	27/MAX	22.23	100.101 55.58

I/L FROM I/C B(302) TO PANEL NO 8

SL NO	CORE NO	DESCRIPTION	CONTACT FROM I/CB	TERMINAL OF I/CB	TERMINAL OF P. NO 8
1.12		I/L FOR STARTING	52B/B3	24.25	49.50
2.34		I/L FOR STARTING	86B		51.52
3.56		I/L FOR STARTING	27B/U1		53.54
4.78		I/L FOR I/CB CLOSING	52/B3	82.83	
5.8.10		START CON FOR DG-2(AUTO)	27/MAX	22.23	100.101 57.58

5.6 of 78.3 [524]
9.10 of 78.3 [524]