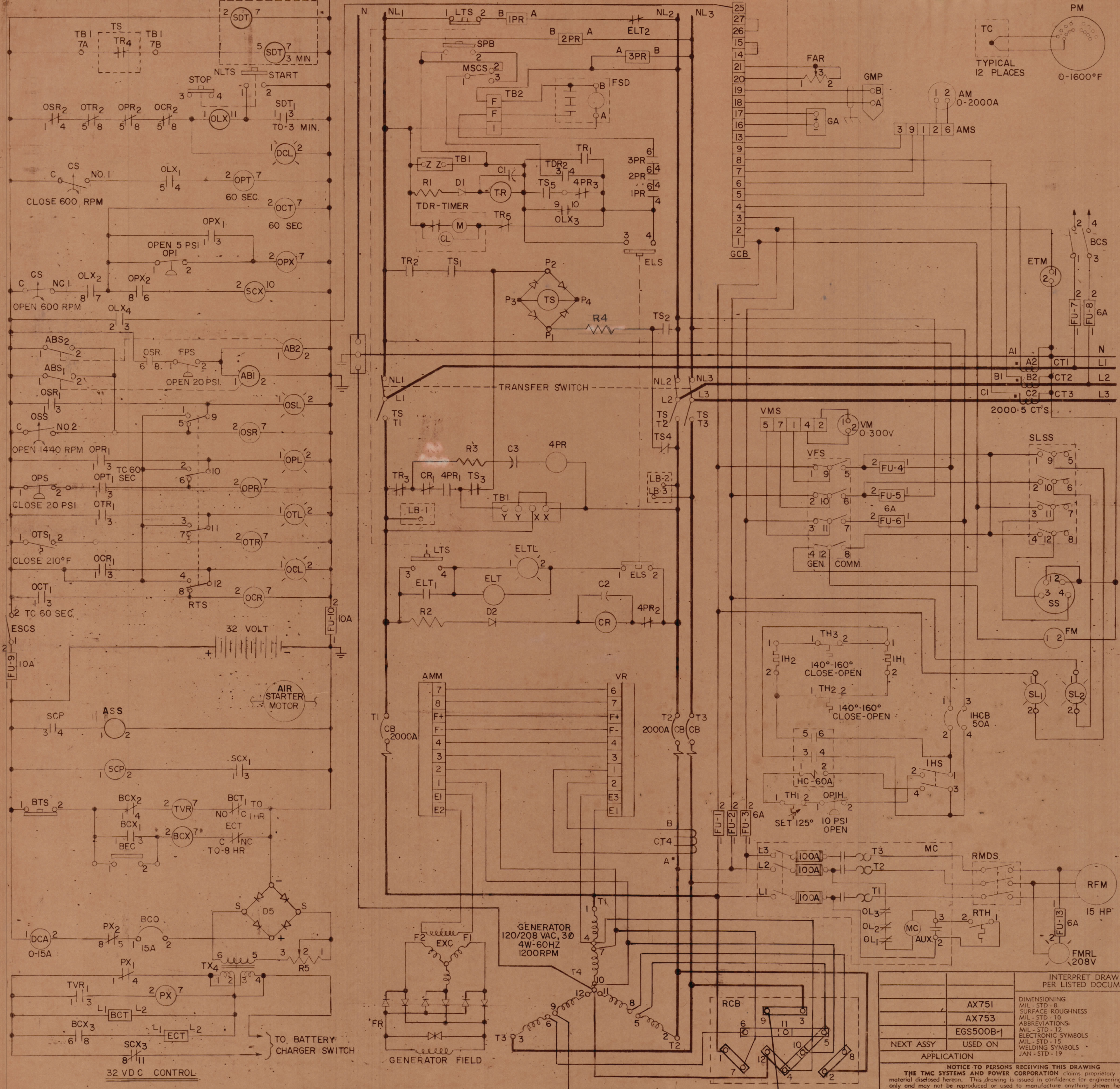


REVISIONS					
ZONE	LTR	DESCRIPTION	DATE	DRAFT	CHK'D
A		ADDED IHCB IN PLACE OF FUI 912	7/13/73	ESF	EL
B		CHANGED AS PER AAP 530 LETTER DATED MAY 23, 1973, ALSO REVISED TVR, PX1 & PX2	7/31/73	ESF	EL



- LEGEND**
- ASS AIR START SOLENOID
  - AB1, 82 AIR BOX DAMPER SOLENOID
  - ABS1, 82 AIR BOX SWITCH (I.N.O.)
  - AM AC AMMETER
  - AMM AUTO-MANUAL MODULE
  - AMS AMMETER SWITCH
  - BCO BATTERY CHARGER OVERLOAD BREAKER
  - BCS BATTERY CHARGER SWITCH
  - BCT BATTERY CHARGER TIMER (I.N.C.)
  - BCX BATTERY CHARGER AUXILIARY RELAY (2 N.O., I.N.C.)
  - BEC BATTERY CHARGER EQUALIZING SWITCH
  - BTS BATTERY CHARGER TEST SWITCH
  - C CAPACITOR
  - CB CIRCUIT BREAKER, GENERATOR
  - RCB RECONNECTION BOARD
  - CL CLUTCH (TDR TIMER)
  - CR TRANSFER TIME DELAY RELAY
  - CS CRANKING SPEED SWITCH
  - CT1, 2, 83 CURRENT TRANSFORMER
  - CT4 CROSS CURRENT COMPENSATING TRANSFORMER
  - D DIODE - OR RECTIFIER
  - DCA DC AMMETER
  - DCL DC CONTROL INDICATOR LIGHT (GREEN)
  - ECT EQUALIZING CHARGE TIMER (I.N.C.)
  - ELS EXTENDED LOAD STOP PUSHBUTTON
  - ELT EXTENDED LOAD TEST RELAY (I.N.O., I.N.C.)
  - ELTL EXTENDED LOAD TEST LIGHT (AMBER)
  - ESCS EMERGENCY STOP AND CONTROL CUT-OUT SWITCH
  - ETM ELAPSED TIME METER
  - EXC GENERATOR EXCITER
  - FAR GOVERNOR CONTROL RHEOSTAT
  - FM FREQUENCY METER
  - FMRL RADIATOR FAN MOTOR RUNNING LIGHT (RED)
  - FPS FUEL PRESSURE SWITCH
  - FR FIELD RECTIFIER
  - FSD FREQUENCY SENSING DEVICE
  - FU FUSE
  - GA GOVERNOR ACTUATOR
  - GCB GOVERNOR CONTROL BOX
  - GMP GOVERNOR MAGNETIC PICKUP
  - IH IMMERSION HEATER
  - IHS IMMERSION HEATER SWITCH
  - LB LOAD BANK TERMINALS
  - LTS LOAD TEST PUSHBUTTON
  - M MOTOR (TDR TIMER)
  - MC RADIATOR FAN MOTOR CONTACTOR
  - MSCS MANUAL SYNCHRONIZING CONTROL SWITCH
  - N NEUTRAL
  - NL NORMAL POWER LINE
  - NLTS NO LOAD TEST START PUSHBUTTON
  - HCI, 2 HEATER CONTACTOR NO. 1 & 2
  - IHCB IMMERSION HEATER CIRCUIT BREAKER
  - OCL OVERCRANK LIGHT (RED)
  - OCR OVERCRANK RELAY (I.N.O., I.N.C.)
  - OCT OVERCRANK TIMER (I.N.O.)
  - OL OVERLOAD, FAN MOTOR STARTER
  - OLX AUXILIARY PILOT RELAY (3 N.O., I.N.C.)
  - OPI OIL PRESSURE INTERLOCK SWITCH
  - OPL OIL PRESSURE LIGHT (RED)
  - OPR OIL PRESSURE RELAY (I.N.O., I.N.C.)
  - OPS OIL PRESSURE SWITCH
  - OPH IMMERSION HEATER CUT-OUT SWITCH
  - OPT OIL PRESSURE TIMER (I.N.O.)
  - OPX OIL PRESSURE AUXILIARY RELAY (2 N.O.)
  - OSL OVERSPEED LIGHT (RED)
  - OSR OVERSPEED RELAY (2 N.O., I.N.C.)
  - OSS OVERSPEED SWITCH
  - OTL OVER TEMPERATURE LIGHT (RED)
  - OTR OVER TEMPERATURE RELAY (I.N.O., I.N.C.)
  - OTS OVER TEMPERATURE SWITCH
  - PM PYROMETER
  - PX BATTERY CHARGER POWER RELAY (2 N.O.)
  - R RESISTOR
  - RFM RADIATOR FAN MOTOR
  - RMDS RADIATOR MOTOR DISCONNECT SWITCH
  - RTH RADIATOR THERMOSTAT
  - RTS SAFETY RESET AND LAMP TEST SWITCH
  - SCP STARTER CONTACTOR PILOT RELAY (I.N.O.)
  - SCX STARTER CONTACTOR AUXILIARY RELAY (2 N.O., I.N.C.)
  - SDT SHUTDOWN TIMER (I.N.O.)
  - SL1, 82 SYNCHRONIZING LIGHTS 1 AND 2 (CLEAR)
  - SLSS SYNCHRONIZING LIGHTS / SYNCHROSCOPE SWITCH
  - SS SYNCHROSCOPE
  - SOL STARTING SOLENOID
  - SPB SYNCHRONIZING PUSHBUTTON
  - TB TERMINAL BOARD
  - TC THERMOCOUPLE
  - TDR TRANSFER TIME DELAY TIMER
  - TH THERMOSTAT
  - TR TRANSFER RELAY
  - TS TRANSFER SWITCH
  - TS1-5 TRANSFER SWITCH AUXILIARY CONTACTS
  - TVR TEMPERATURE COMPENSATED VOLTAGE SENSING RELAY (I.N.C.)
  - TX4 TRANSFORMER, 120/208/240V PRI-38V/12A SEC
  - VFS VOLTMETER / FREQUENCY METER SELECTOR SWITCH
  - VM VOLTMETER
  - VMS VOLTMETER SWITCH
  - VR VOLTAGE REGULATOR
  - I-3PR POTENTIAL RELAY
  - 4PR VOLTAGE FREQUENCY RELAY

**NOTES**

- ALL CIRCUITS ARE SHOWN DE-ENERGIZED
- TRANSFER SWITCH SHOWN IN COMMERCIAL POSITION.

**SWITCH LEGEND**

POSITION	POSITION		
	1	2	3
1-2	X-X		
3-4			X-X
5-6	X-X	X-X	
7-8	X-X	X-X	
9-10	X-X	X-X	
13-14	X-X	X-X	

CONTACT	POSITION		
	OFF	1	2
1-2	X		
3-4			X
5-6		X	X
7-8	X	X	

(VMS) VOLTMETER SWITCH

**TERMINAL BOARDS**

- LB - LOAD BANK
- TB2-F - FREQUENCY SENSING DEVICE
- XX - BYPASS SWITCH INTERLOCK
- TB1 - YY - ALARM RELAY CONNECTION
- ZZ - LOAD DROPPING RELAY

QTY REQ	QTY REQ	QTY REQ	ITEM	PART NO.	MANUFACTURER	DESCRIPTION	SYM

**PARTS LIST**

DRAWN	DATE	THE TMC SYSTEMS AND POWER CORPORATION
R.M. FERNANDEZ	4/4/73	SPRINGFIELD, VIRGINIA

**SCHEMATIC DIAGRAM**

500 KW ENGINE GENERATOR SET 120 / 208VAC

SIZE	CODE IDENT NO	DWG. NO.	REV
D	24146	CK 1815	B

SCALE NONE SHEET 1 OF 1

**INTERPRET DRAWING PER LISTED DOCUMENTS**

AX751	DIMENSIONING MIL - STD - 8
AX753	SURFACE ROUGHNESS MIL - STD - 10
EGS500B-1	ABBREVIATIONS MIL - STD - 12
	ELECTRONIC SYMBOLS MIL - STD - 15
	WELDING SYMBOLS JAN - STD - 19

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