

Tower Dryer



Wiring Diagrams Manual

PNEG-554r99



a division of

THE GSI GROUP



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Control Wiring

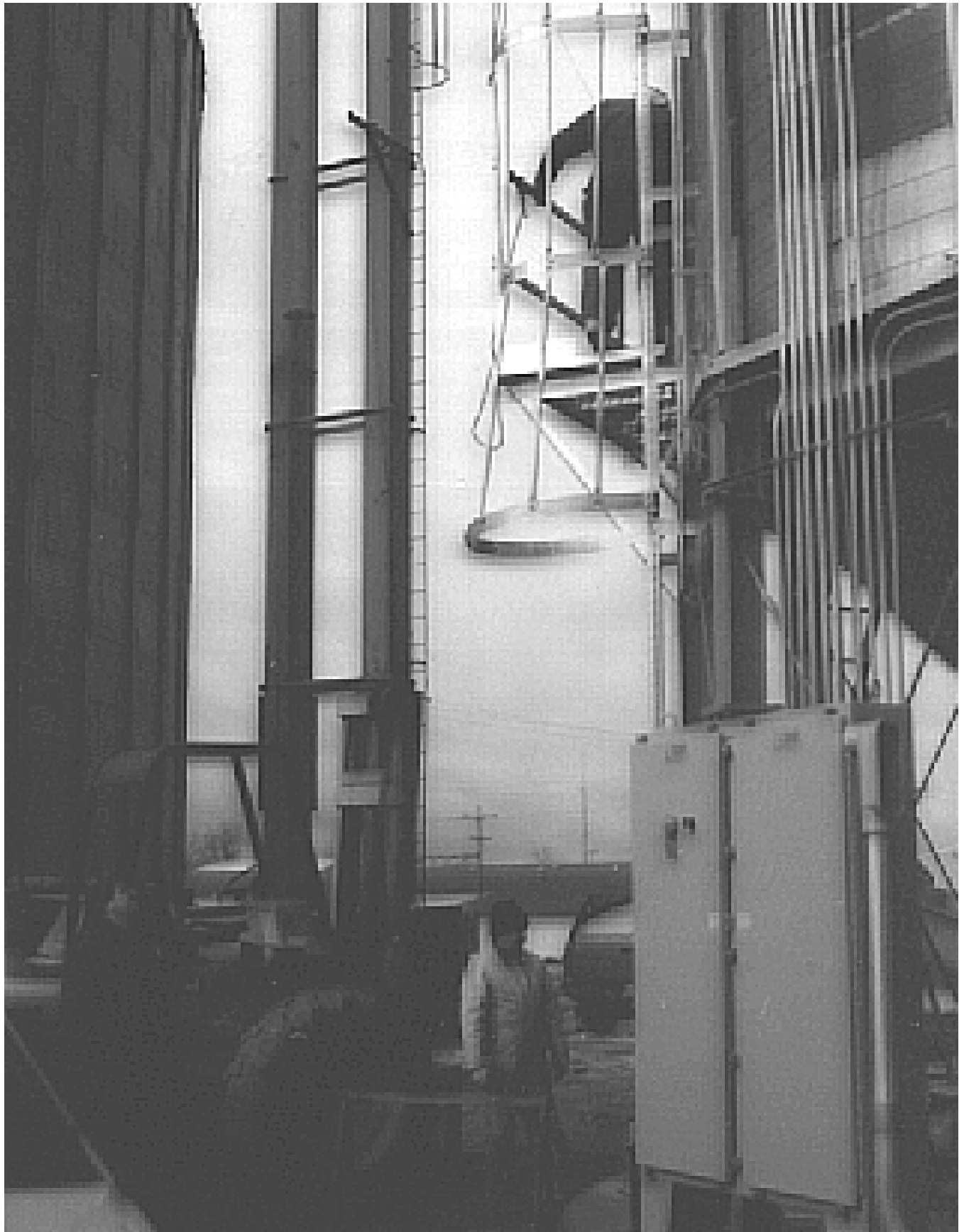
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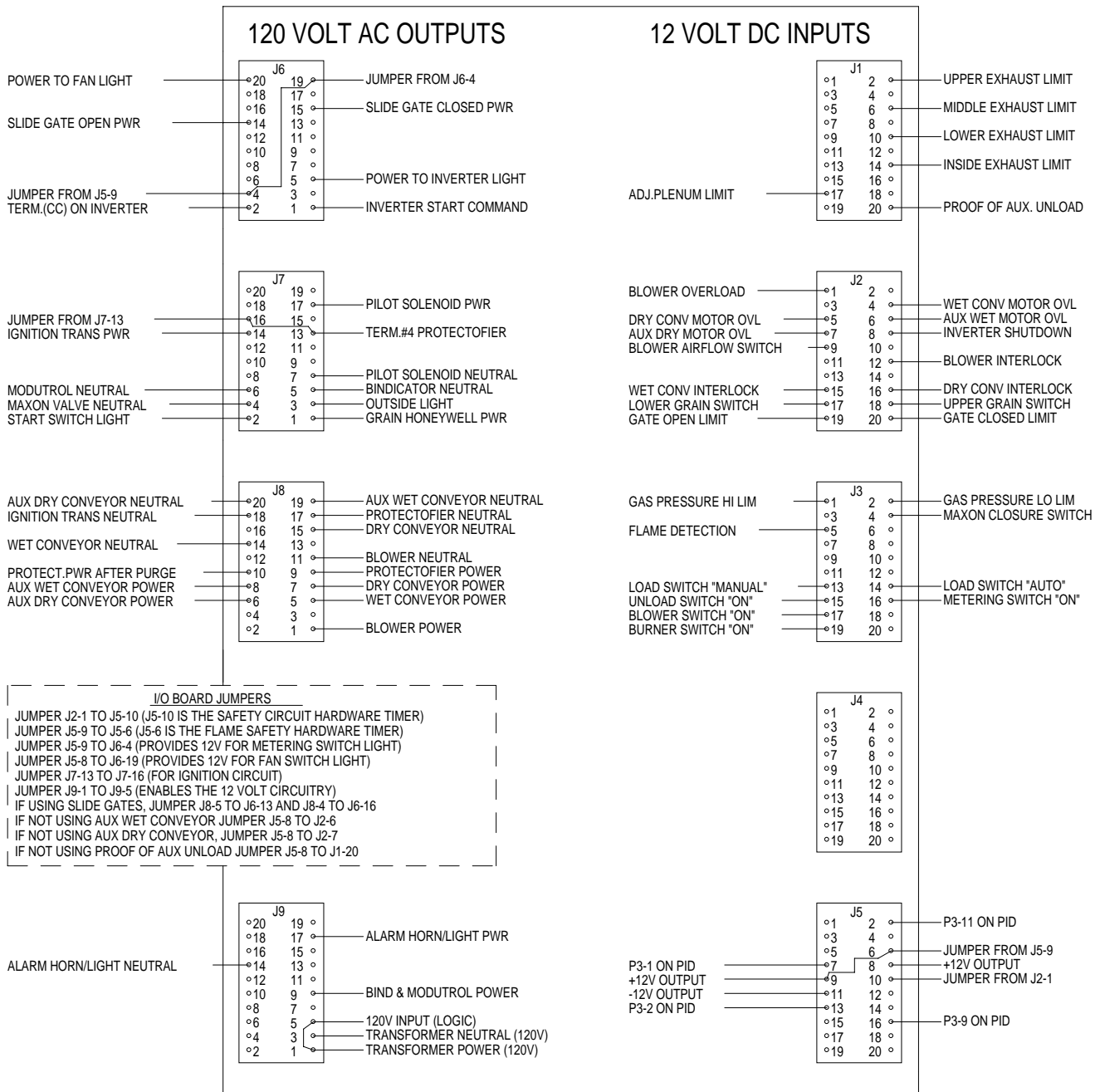
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN WIRING



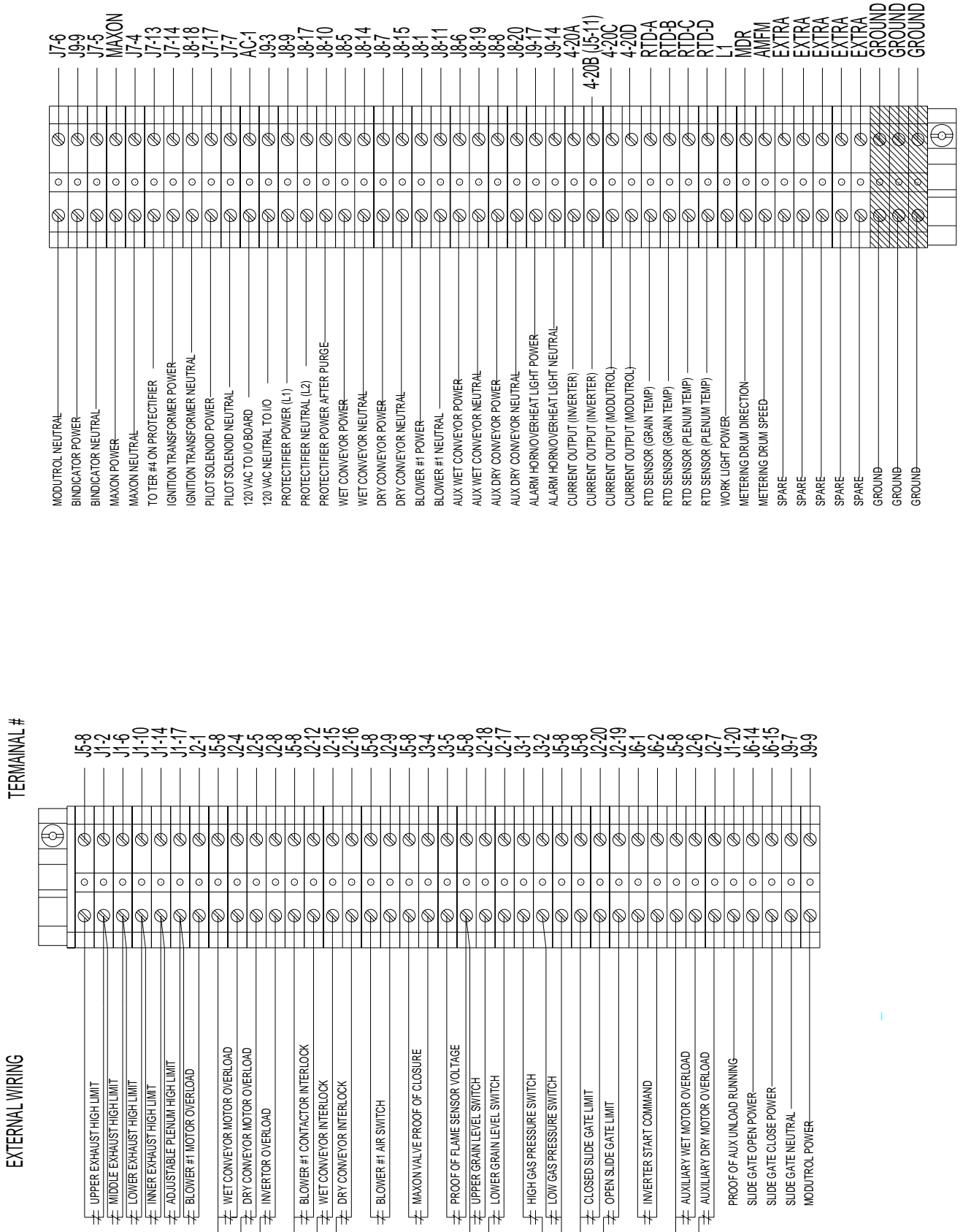
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN INPUT/OUTPUT BOARD



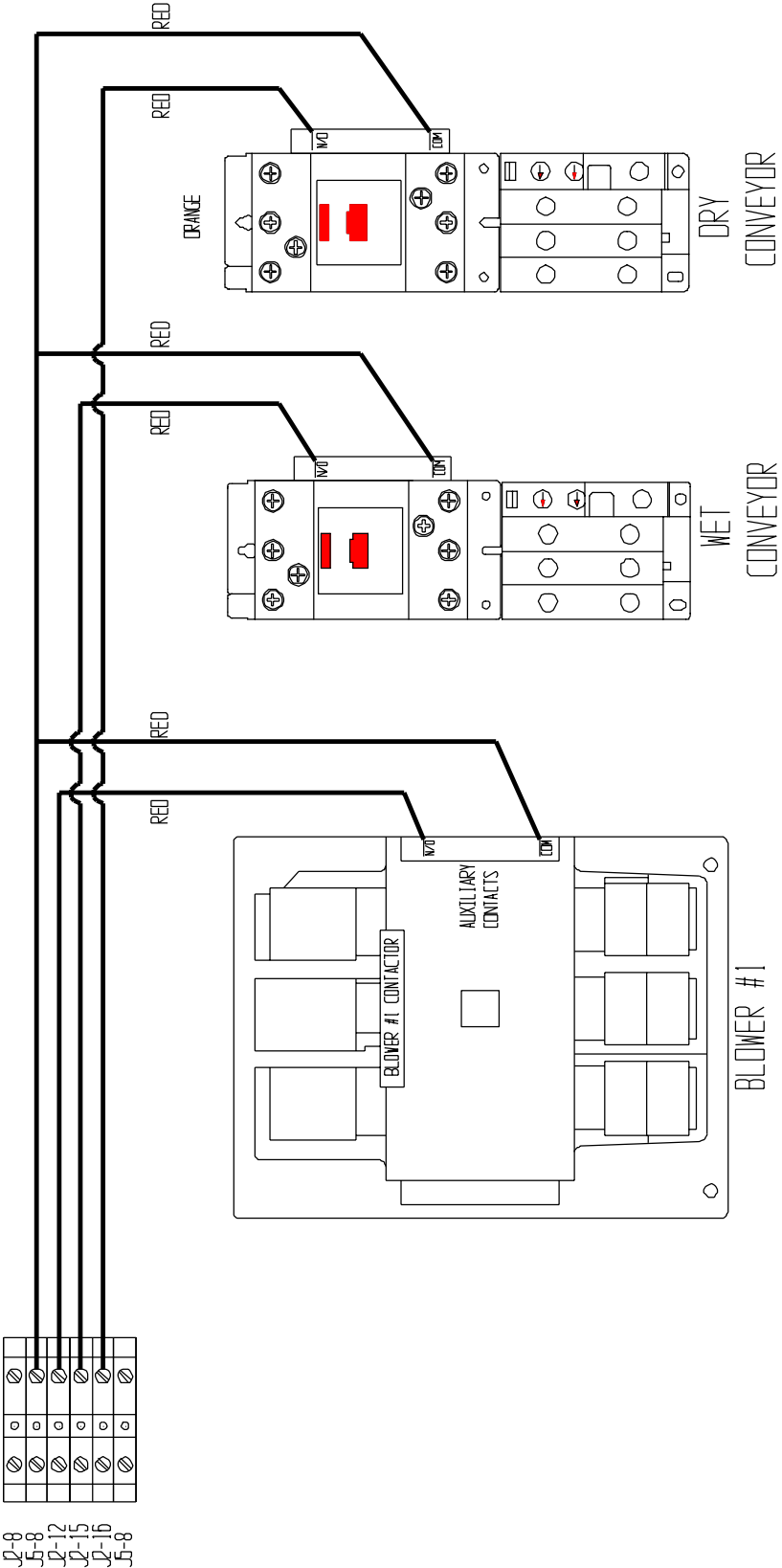
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SINGLE FAN EXTERNAL WIRING



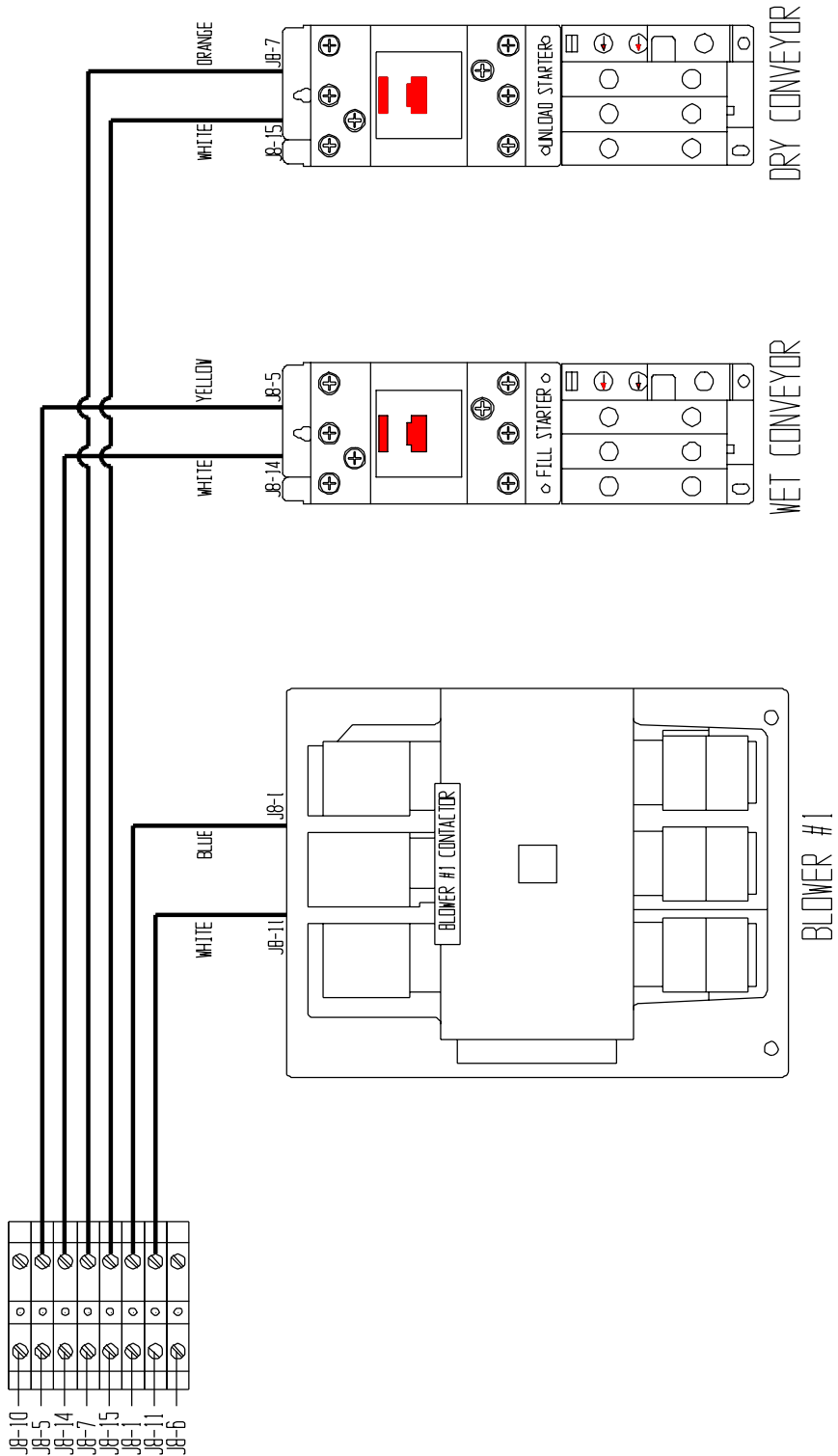
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN AUXILIARY INTERLOCK WIRING



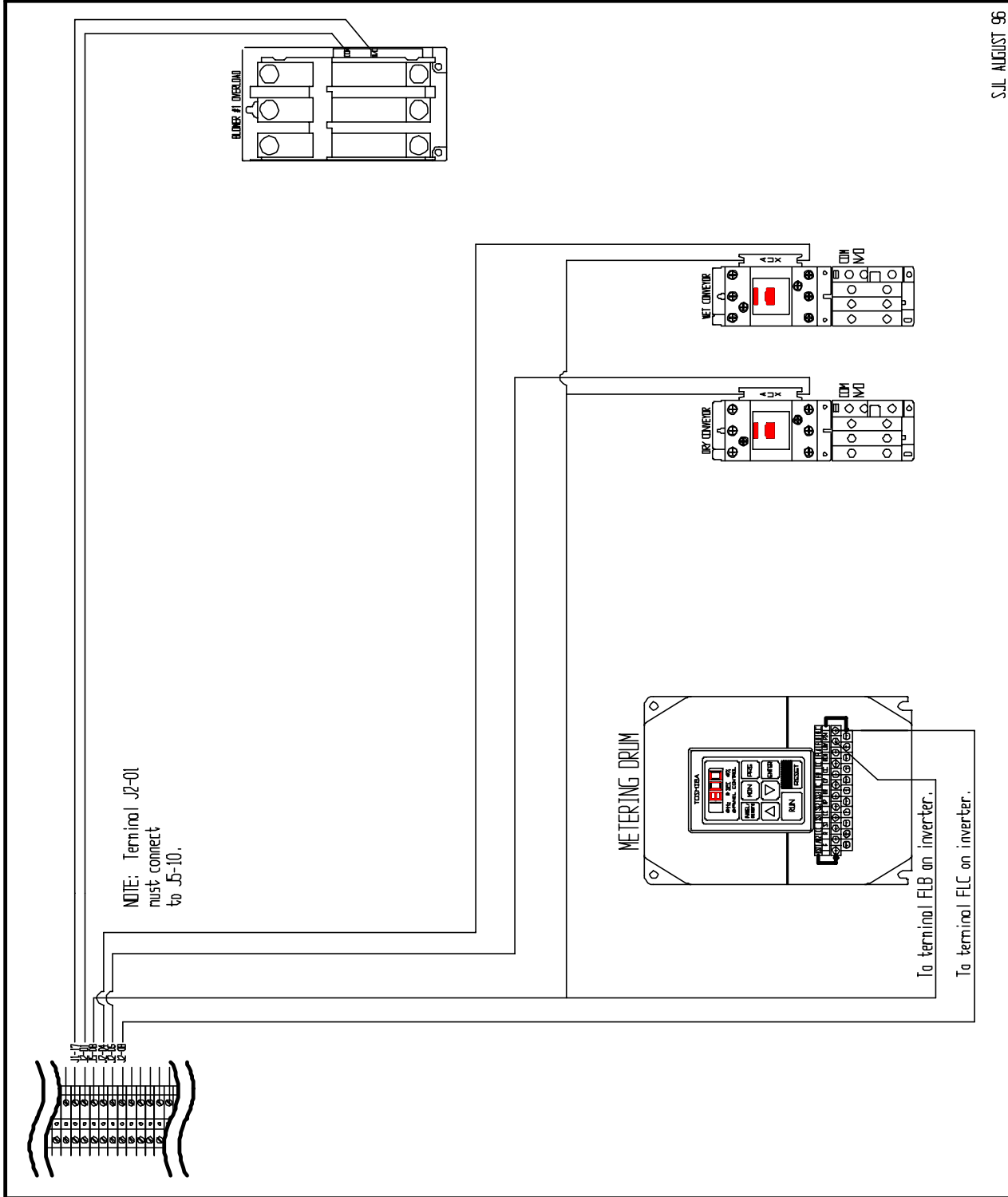
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN CONTACTOR COIL WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

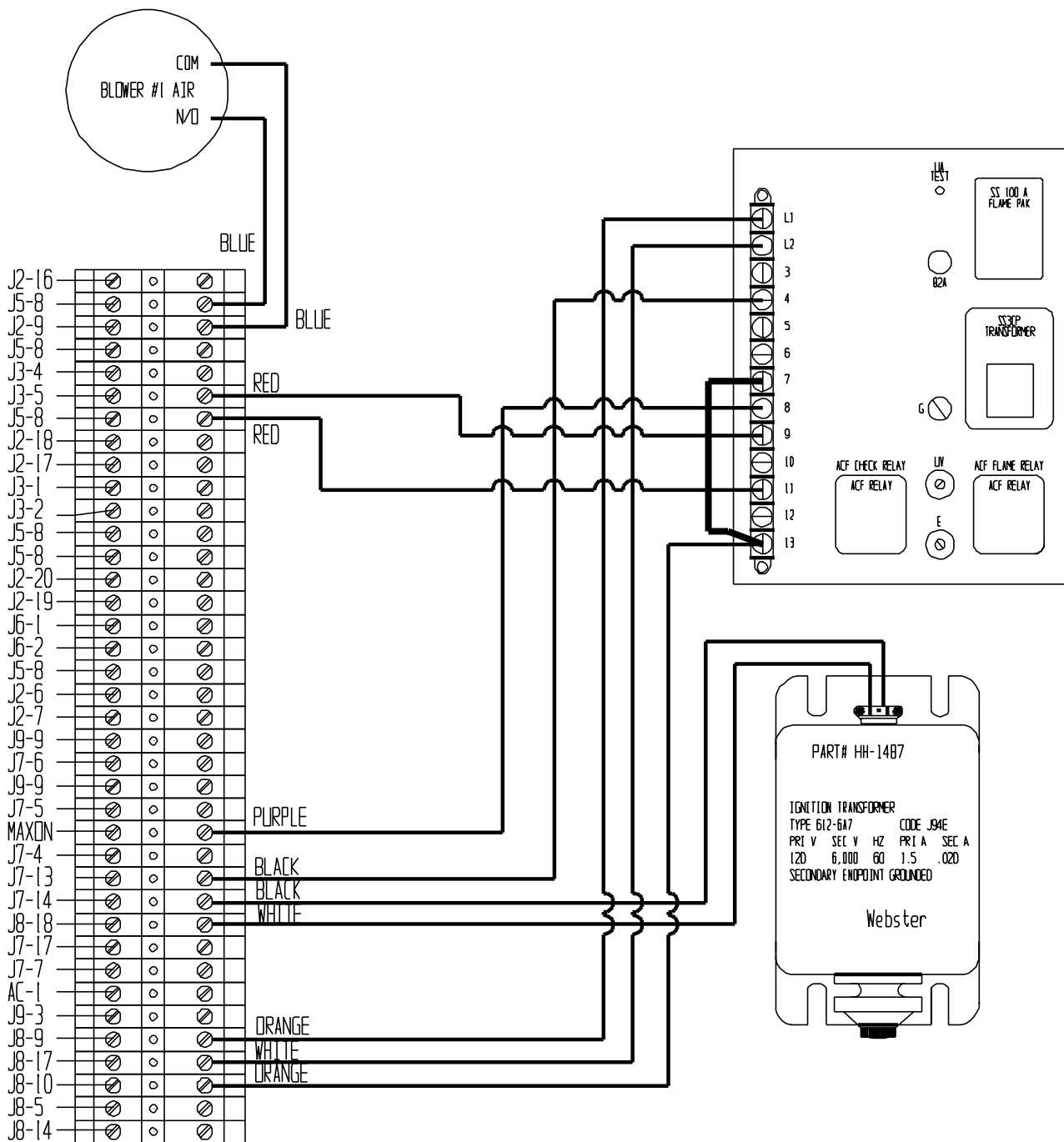
SINGLE FAN OVERLOAD WIRING



S.J.L. AUGUST 96

GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN PROTECTOFIER/IGNITION/AIRSWITCH WIRING



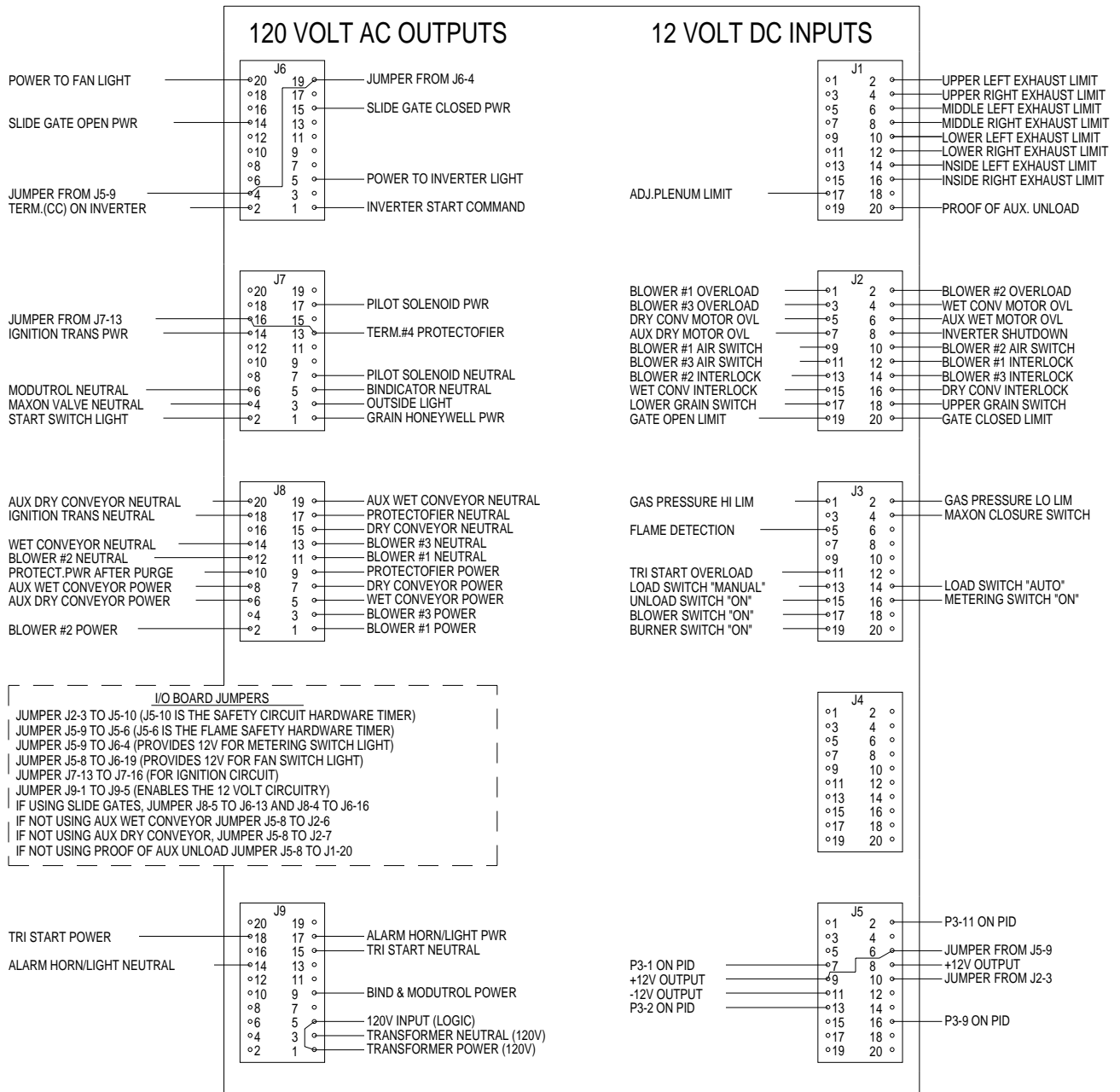
GSI TOWER DRYER WIRING DIAGRAMS

THREE FAN WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

THREE FAN INPUT/OUTPUT BOARD



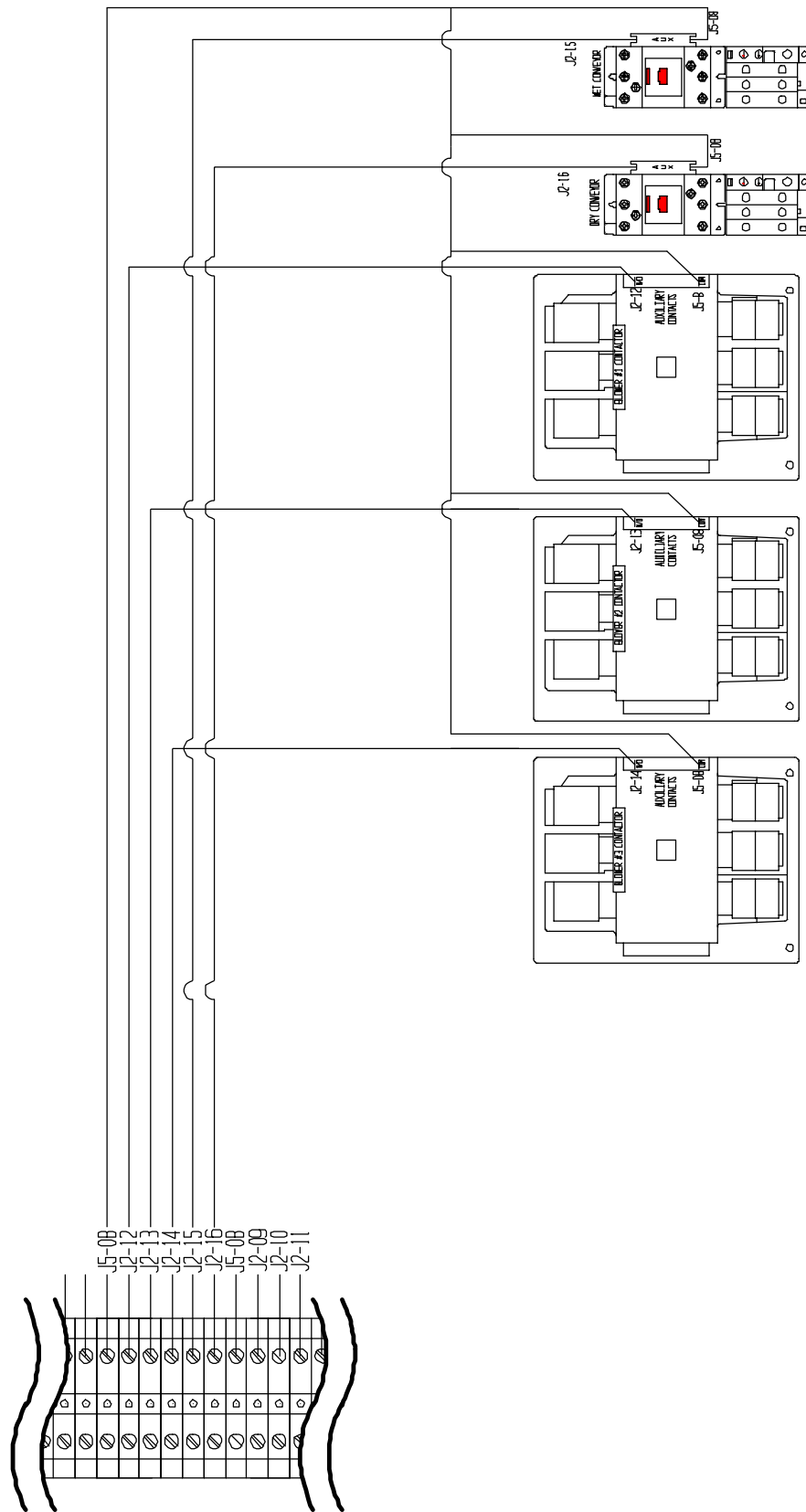
GSi TOWER DRYER WIRING DIAGRAMS

THREE FAN EXTERNAL WIRING

EXTERNAL WIRING	TERMINAL #	Wiring Diagram	TERMINAL #	Wiring Diagram
✓ UPPER EXHAUST HIGH LIMIT (LEFT)	J5-8		MODUTROL NEUTRAL	J7-6
✓ UPPER EXHAUST HIGH LIMIT (RIGHT)	J1-2		BINDICATOR POWER	J9-9
✓ MIDDLE EXHAUST HIGH LIMIT (LEFT)	J1-4		MAXON NEUTRAL	J7-5
✓ MIDDLE EXHAUST HIGH LIMIT (RIGHT)	J1-6		MAXON POWER	MAXON
✓ LOWER EXHAUST HIGH LIMIT (LEFT)	J1-8		MAXON NEUTRAL	J7-4
✓ LOWER EXHAUST HIGH LIMIT (RIGHT)	J1-10		TOTER #4 ON PROTECTIFHER	J7-13
✓ INNER EXHAUST HIGH LIMIT (LEFT)	J1-12		IGNITION TRANSFORMER POWER	J7-14
✓ INNER EXHAUST HIGH LIMIT (RIGHT)	J1-14		IGNITION TRANSFORMER NEUTRAL	J8-18
✓ ADJUSTABLE PLENUM HIGH LIMIT	J1-16		PLOT SOLENOID POWER	J7-17
✓ BLOWER #1 MOTOR OVERLOAD	J1-17		PLOT SOLENOID NEUTRAL	J7-7
✓ BLOWER #2 MOTOR OVERLOAD	J2-1		120 VAC TO IO BOARD	AC-1
✓ BLOWER #3 MOTOR OVERLOAD	J2-2		120 VAC NEUTRAL TO IO	J9-3
✓ WET CONVEYOR MOTOR OVERLOAD	J2-3		PROTECTIFHER POWER (L1)	J8-9
✓ DRY CONVEYOR MOTOR OVERLOAD	J2-5		PROTECTIFHER NEUTRAL (L2)	J8-17
✓ INVERTOR OVERLOAD	J2-8		PROTECTIFHER POWER AFTER PURGE	J8-10
✓ BLOWER #1 CONTACTOR INTERLOCK	J2-12		WET CONVEYOR POWER	J8-5
✓ BLOWER #2 CONTACTOR INTERLOCK	J2-13		WET CONVEYOR NEUTRAL	J8-14
✓ BLOWER #3 CONTACTOR INTERLOCK	J2-15		DRY CONVEYOR POWER	J8-7
✓ WET CONVEYOR INTERLOCK	J2-16		DRY CONVEYOR NEUTRAL	J8-15
✓ DRY CONVEYOR INTERLOCK	J2-18		DRY CONVEYOR NEUTRAL	J8-1
✓ BLOWER #1 AIR SWITCH	J2-9		BLOWER #1 POWER	J8-11
✓ BLOWER #2 AIR SWITCH	J2-10		BLOWER #1 NEUTRAL	J8-1
✓ BLOWER #3 AIR SWITCH	J2-11		BLOWER #2 POWER	J8-2
✓ MAXON VALVE PROOF OF CLOSURE	J5-8		BLOWER #2 NEUTRAL	J8-12
✓ PROOF OF FLAME SENSOR VOLTAGE	J3-4		BLOWER #3 POWER	J8-3
✓ UPPER GRAIN LEVEL SWITCH	J5-8		BLOWER #3 NEUTRAL	J8-13
✓ LOWER GRAIN LEVEL SWITCH	J2-17		AUX WET CONVEYOR POWER	J8-6
✓ HIGH GAS PRESSURE SWITCH	J3-1		AUX WET CONVEYOR NEUTRAL	J8-19
✓ LOW GAS PRESSURE SWITCH	J5-8		AUX DRY CONVEYOR POWER	J8-8
✓ CLOSED SLIDE GATE LIMIT	J2-20		AUX DRY CONVEYOR NEUTRAL	J8-20
✓ OPEN SLIDE GATE LIMIT	J2-19		AUX DRY CONVEYOR NEUTRAL	J8-20
✓ INVERTER START COMMAND	J6-1		ALARM HORN/HEAT LIGHT POWER	J9-17
✓ AUXILIARY WET MOTOR OVERLOAD	J6-2		ALARM HORN/HEAT LIGHT NEUTRAL	J9-14
✓ AUXILIARY DRY MOTOR OVERLOAD	J2-6		CURRENT OUTPUT (INVERTER)	J4-20A
✓ PROOF OF AUX UNLOAD RUNNING	J2-7		CURRENT OUTPUT (MODUTROL)	4-20C
✓ SLIDE GATE OPEN POWER	J1-20		CURRENT OUTPUT (MODUTROL)	4-20D
✓ SLIDE GATE CLOSE POWER	J6-14		RTD SENSOR (GRAIN TEMP)	RTD-A
✓ SLIDE GATE NEUTRAL	J6-15		RTD SENSOR (GRAIN TEMP)	RTD-B
✓ MODUTROL POWER	J9-7		RTD SENSOR (PLENUM TEMP)	RTD-C
	J9-9		RTD SENSOR (PLENUM TEMP)	RTD-D
			WORK LIGHT POWER	L1
			METERING DRUM DIRECTION	MDR
			METERING DRUM SPEED	AMFM
			SPARE	EXTRA
			SPARE	EXTRA
			SPARE	EXTRA
			SPARE	EXTRA
			GROUND	GROUND
			GROUND	GROUND
			GROUND	GROUND
			GROUND	GROUND
			GROUND	GROUND

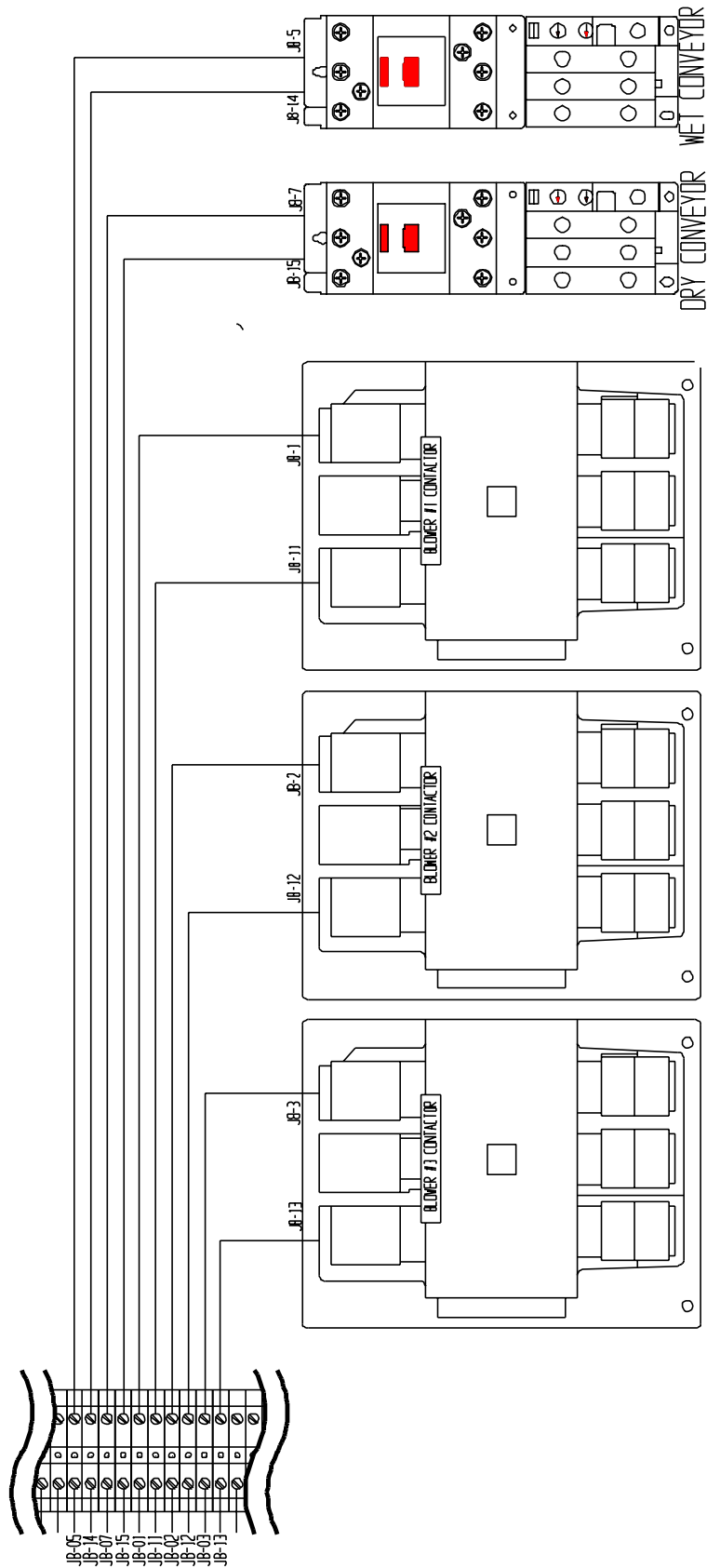
GSI TOWER DRYER WIRING DIAGRAMS

THREE FAN AUXILIARY INTERLOCK WIRING



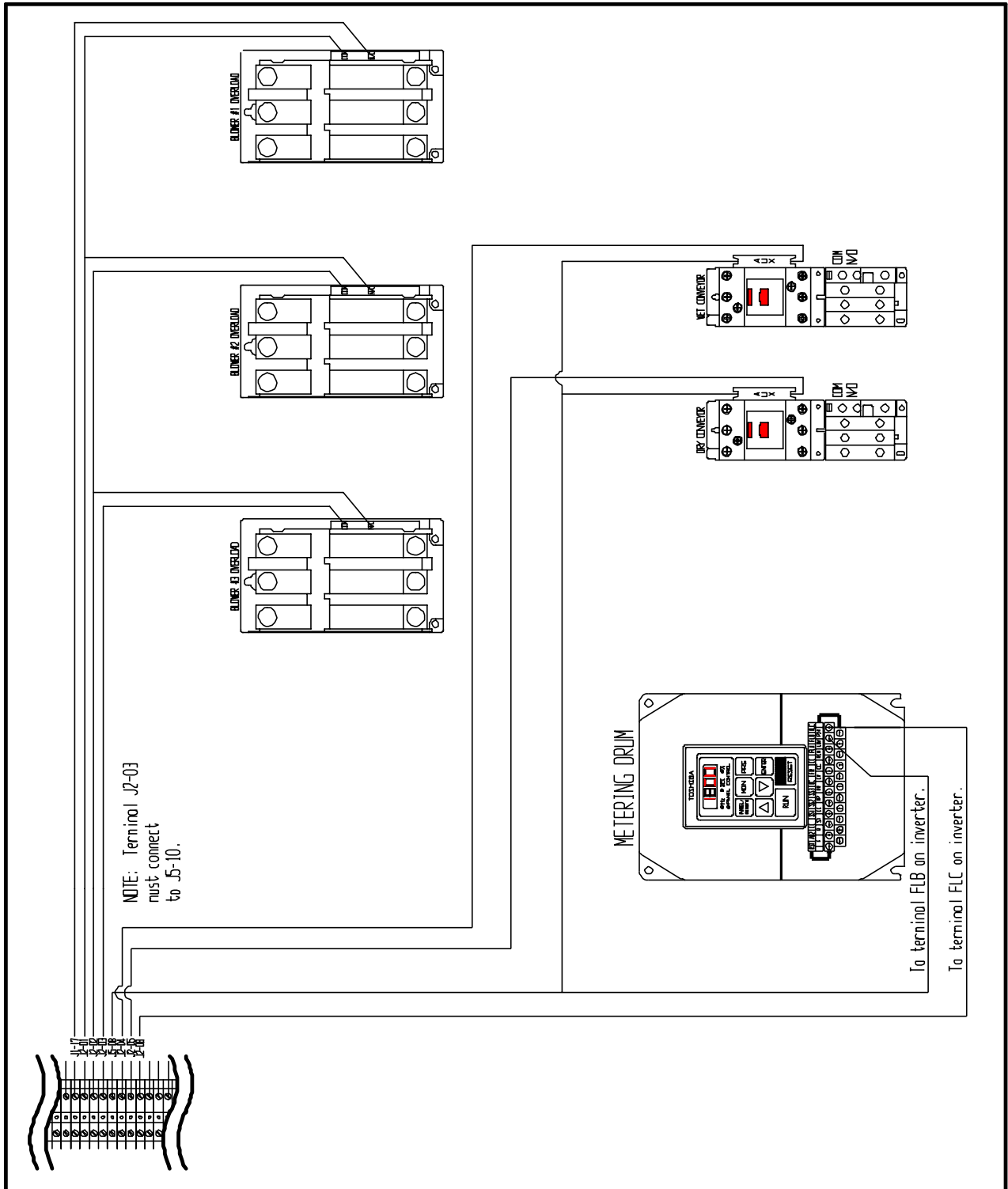
GS1 TOWER DRYER WIRING DIAGRAMS

THREE FAN CONTACTOR COIL WIRING



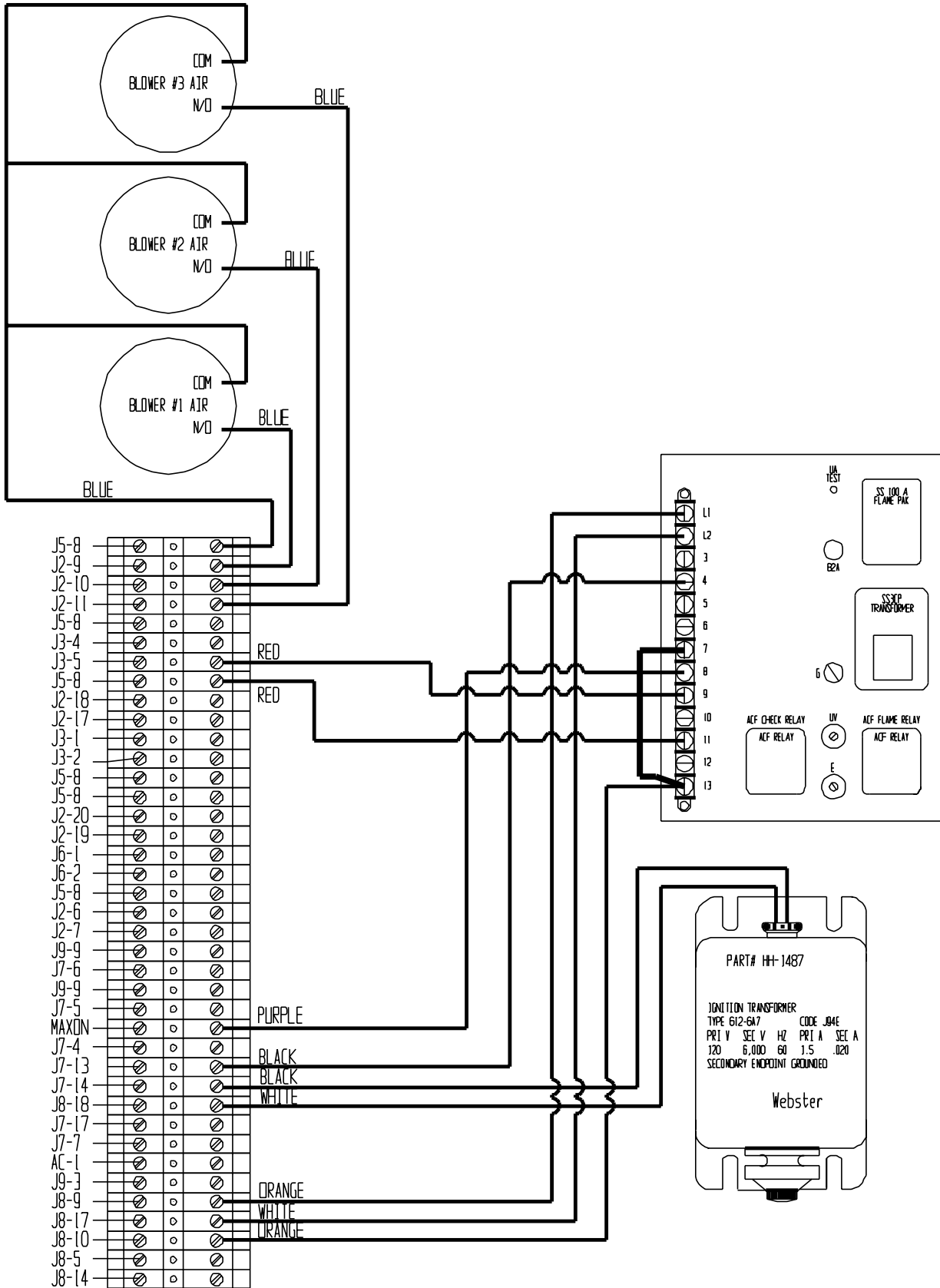
GS1 TOWER DRYER WIRING DIAGRAMS

THREE FAN OVERLOAD WIRING



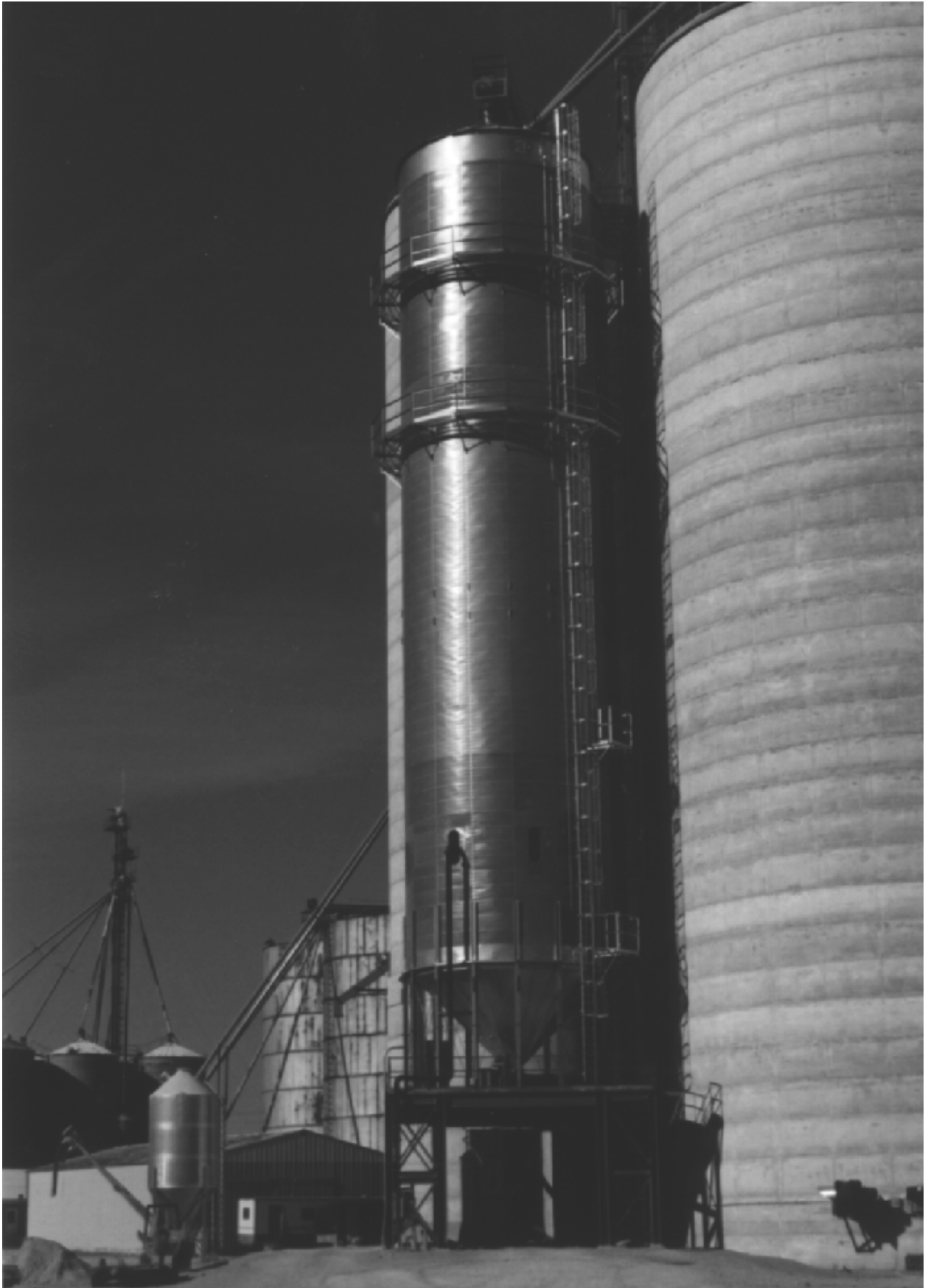
GSI TOWER DRYER WIRING DIAGRAMS

THREE FAN PROTECTOFIER/IGNITION/AIRSWITCH WIRING



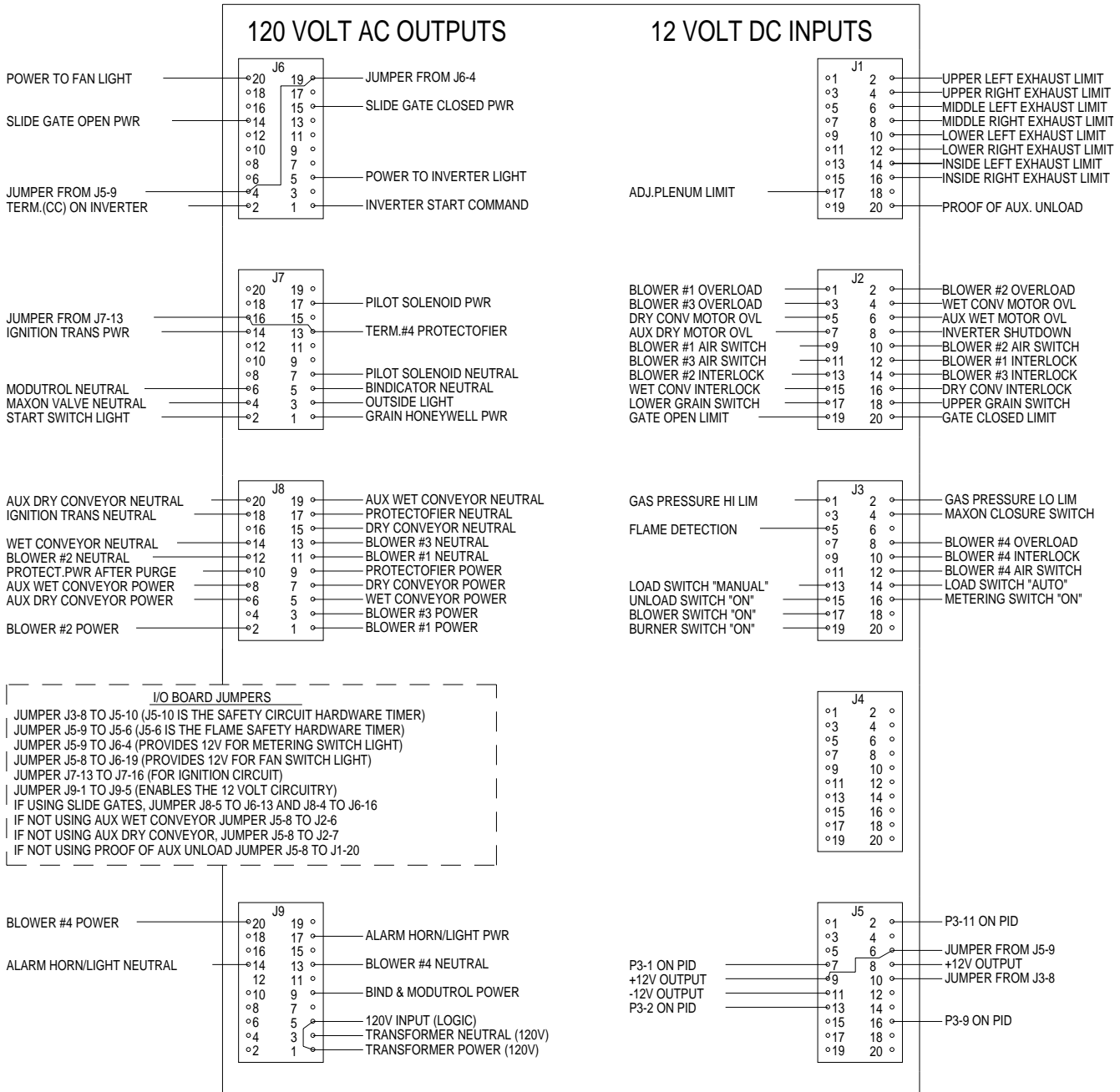
GSI TOWER DRYER WIRING DIAGRAMS

FOUR FAN WIRING



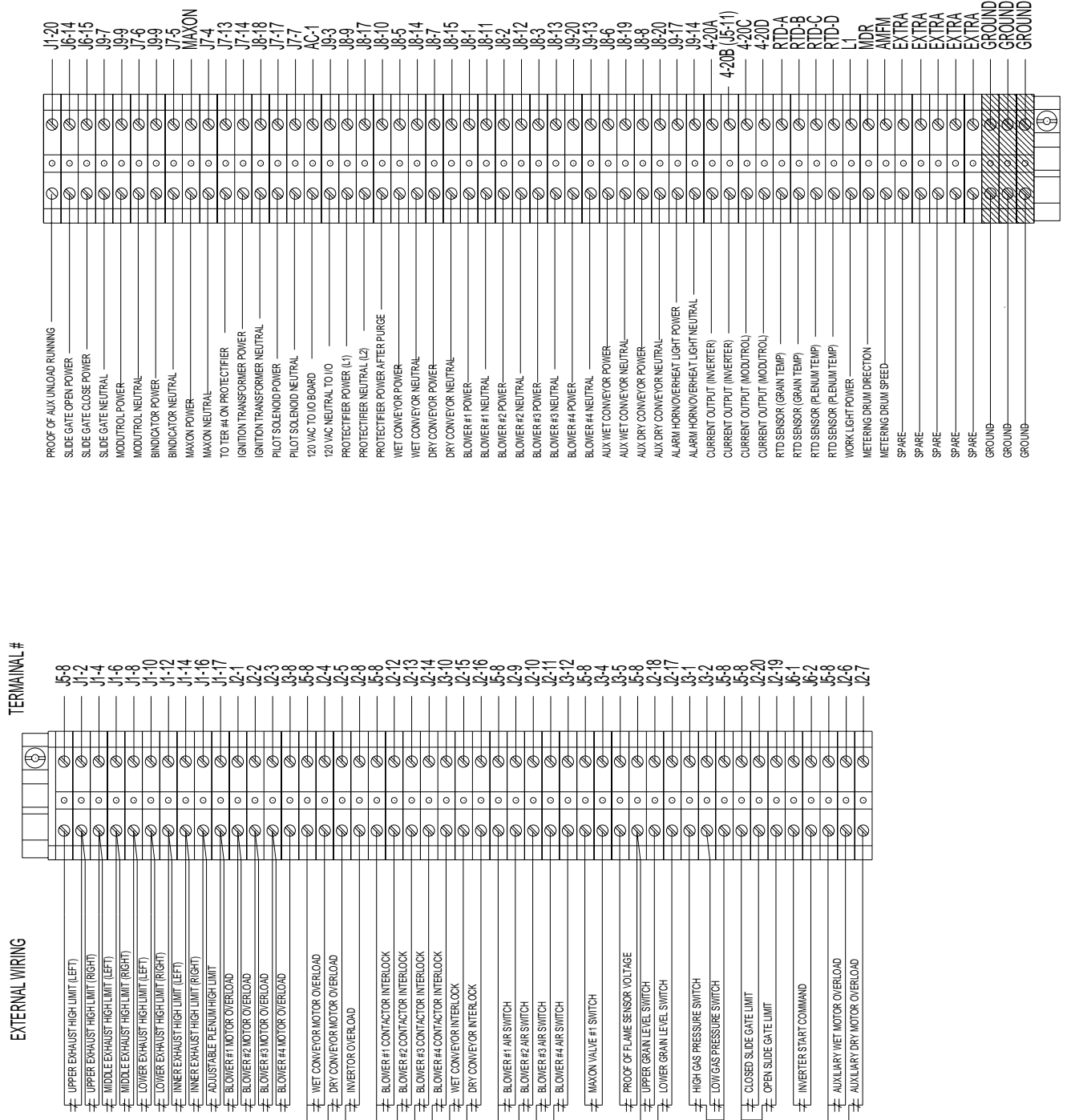
GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN INPUT/OUTPUT BOARD



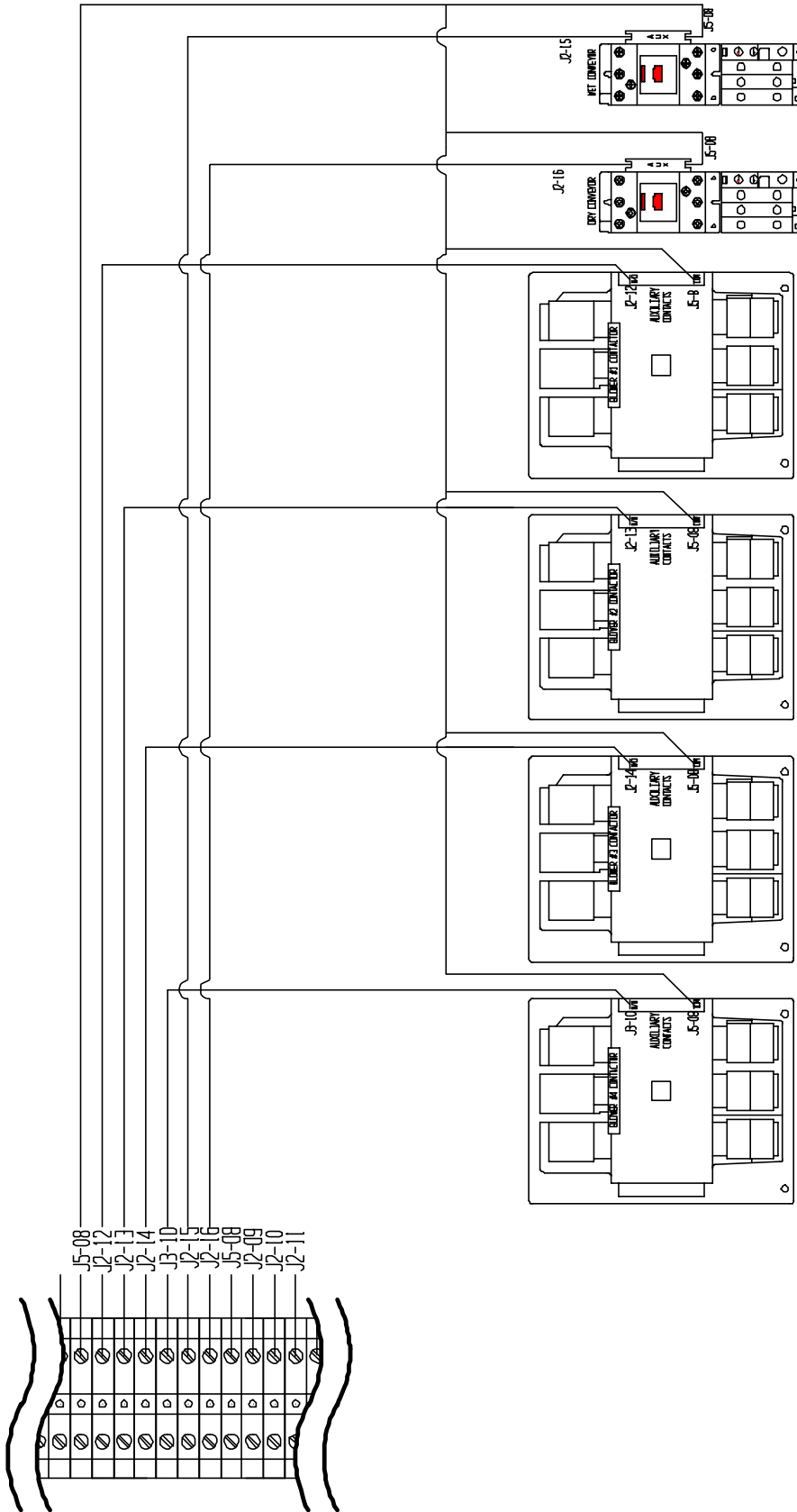
GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN EXTERNAL WIRING



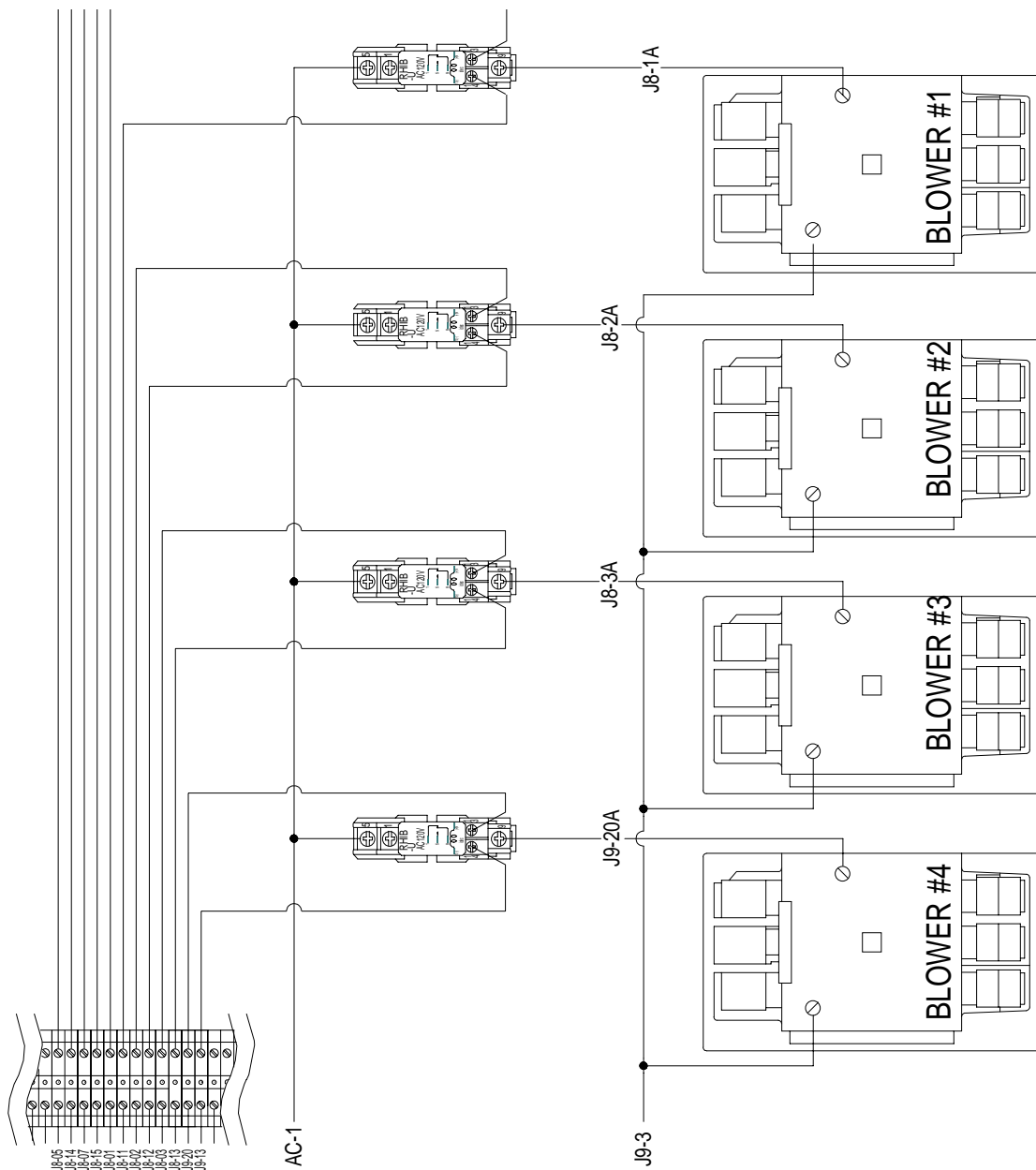
GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN AUXILIARY INTERLOCK WIRING



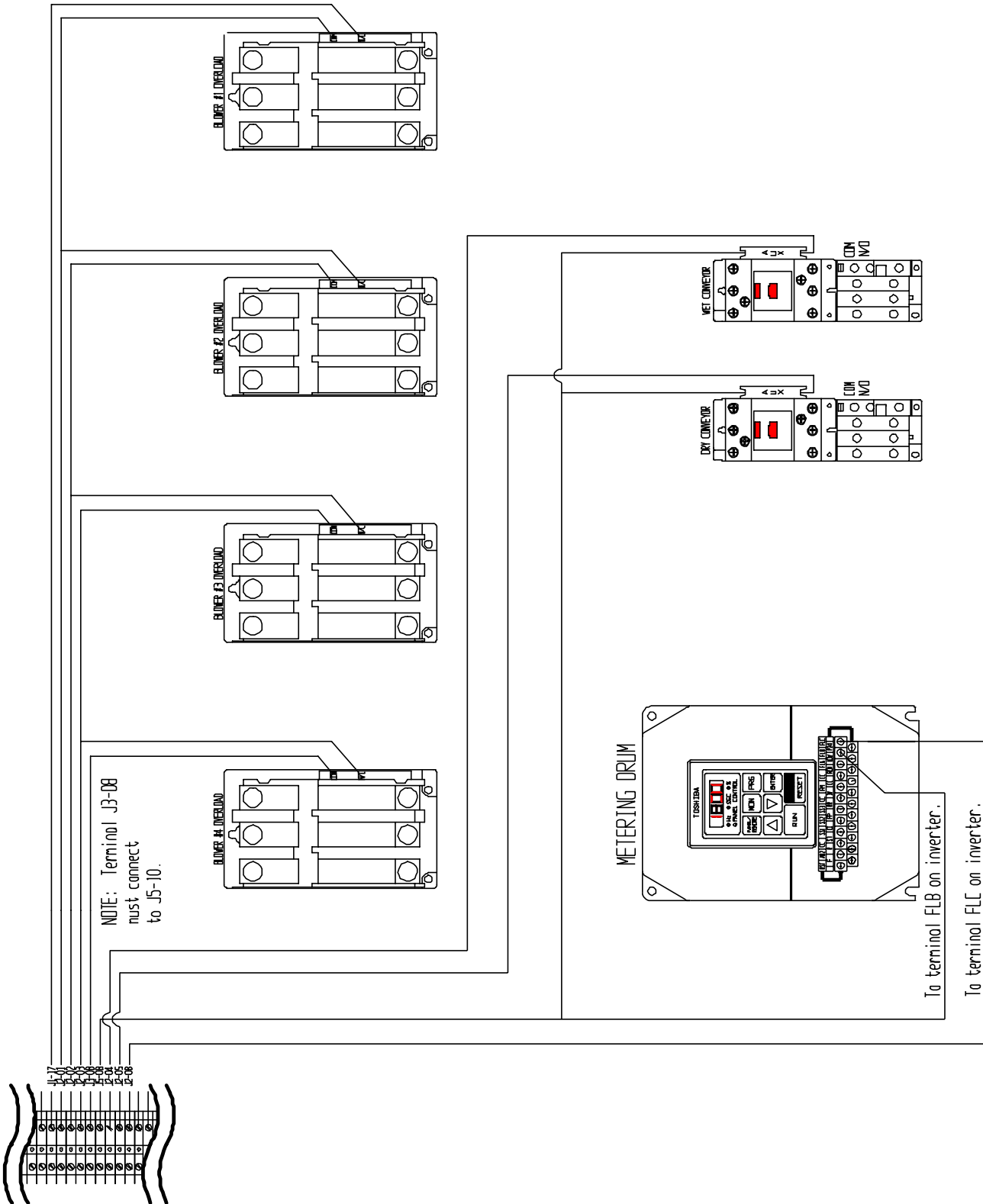
GSI TOWER DRYER WIRING DIAGRAMS

FOUR FAN CONTACTOR COIL WIRING



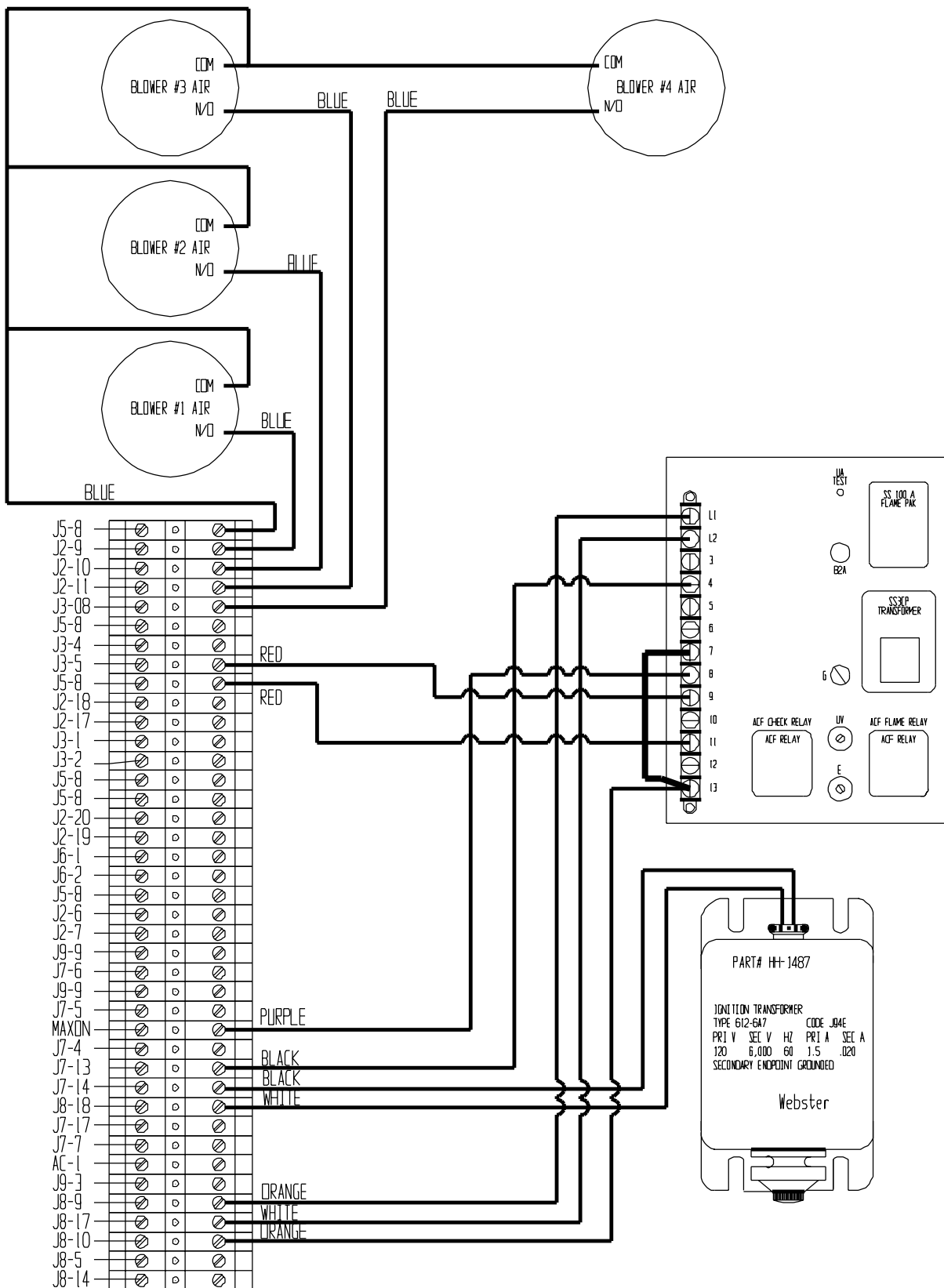
GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN OVERLOAD WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN PROTECTOFIER/IGNITION/AIRSWITCH WIRING

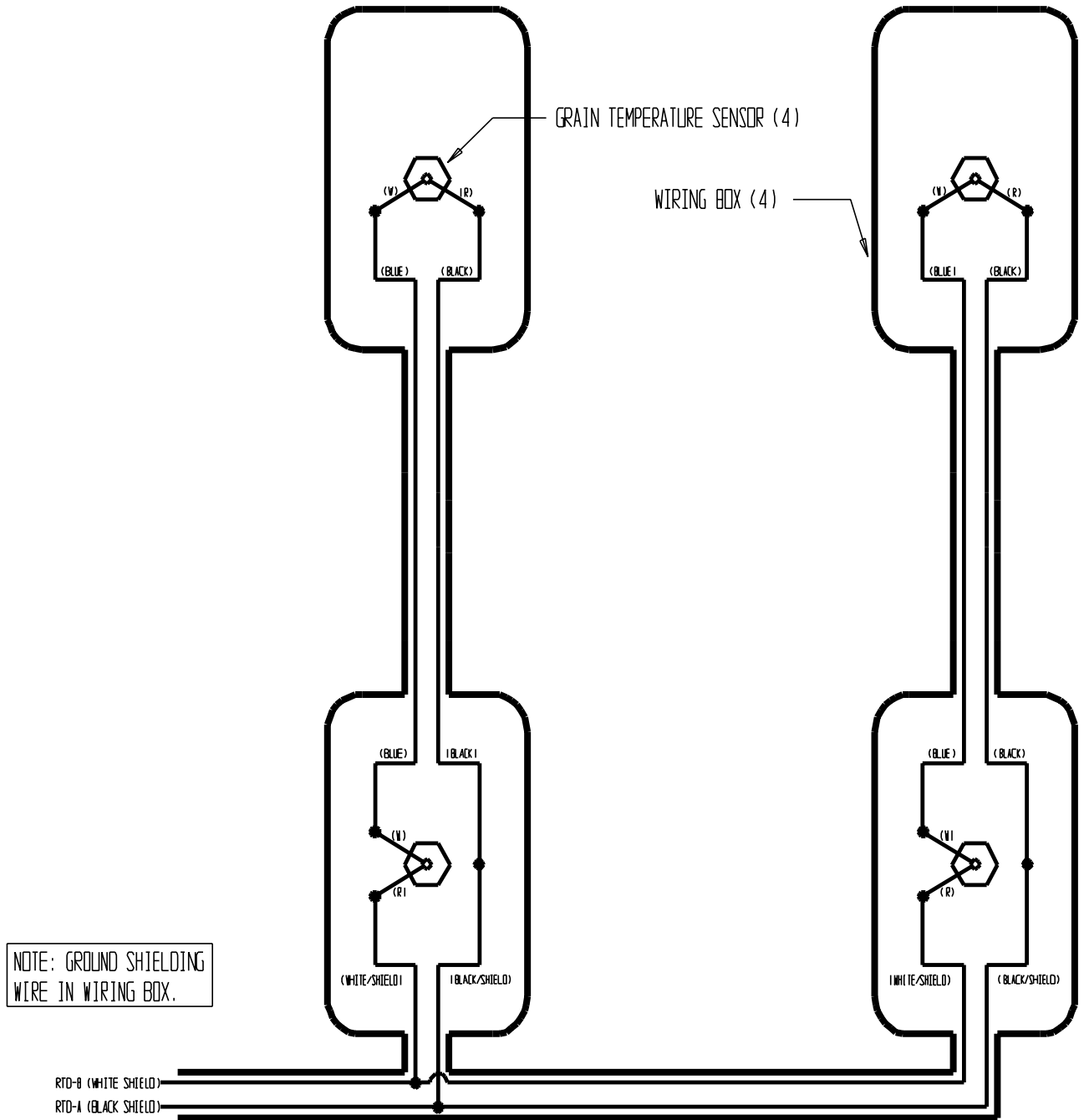


GSI TOWER DRYER WIRING DIAGRAMS

SENSOR WIRING

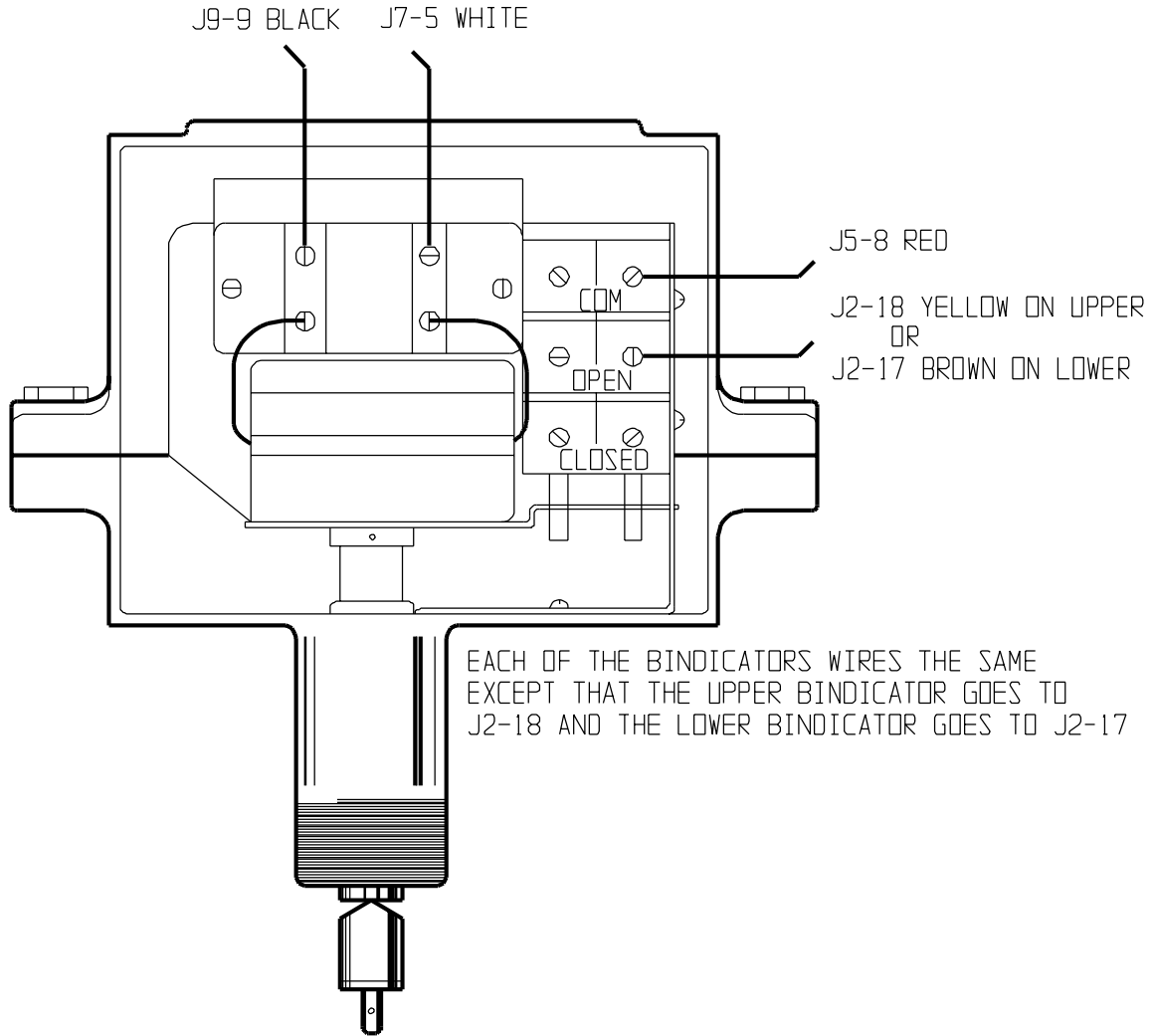
GSI TOWER DRYER WIRING DIAGRAMS

GRAIN TEMPERATURE SENSOR WIRING



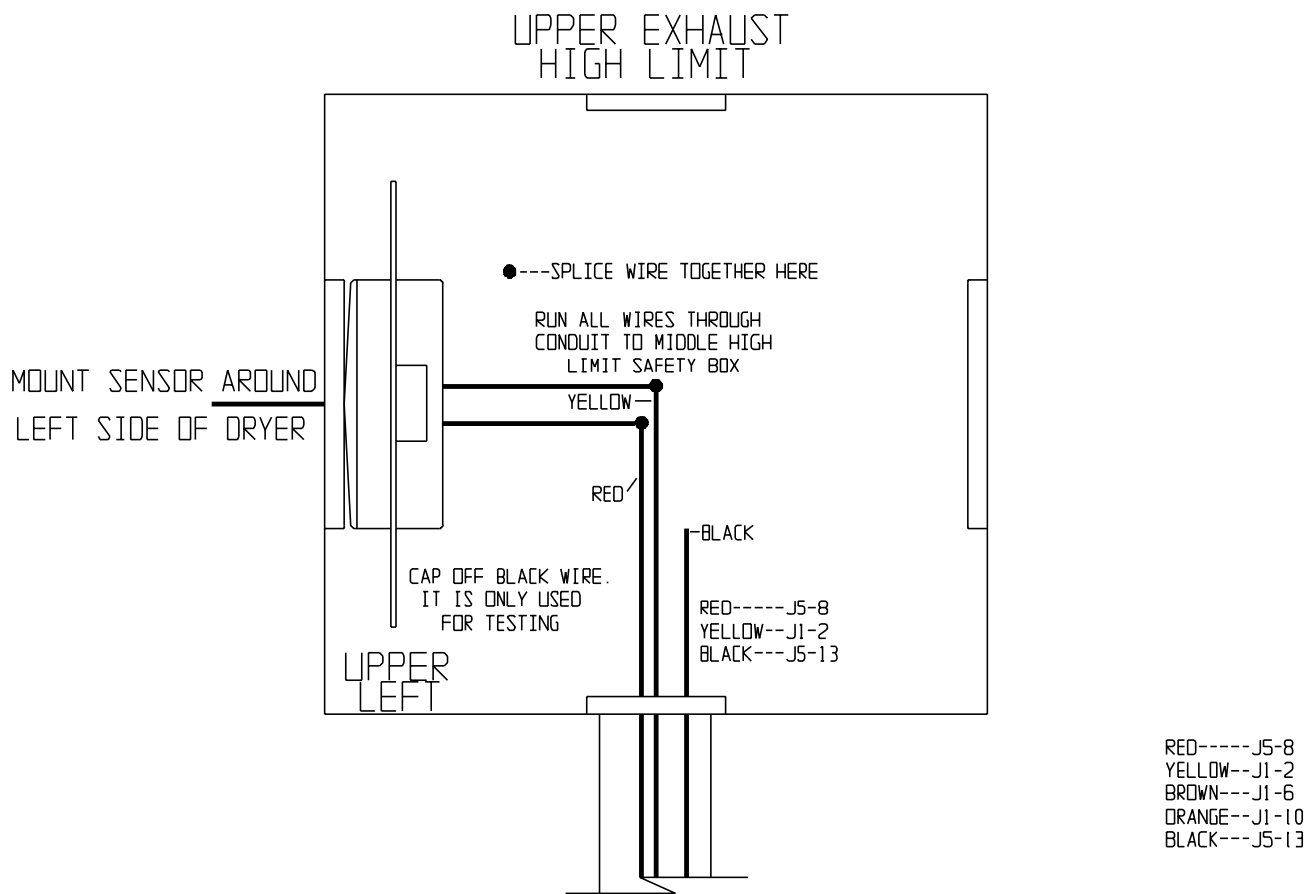
GS1 TOWER DRYER WIRING DIAGRAMS

BINDICATOR WIRING



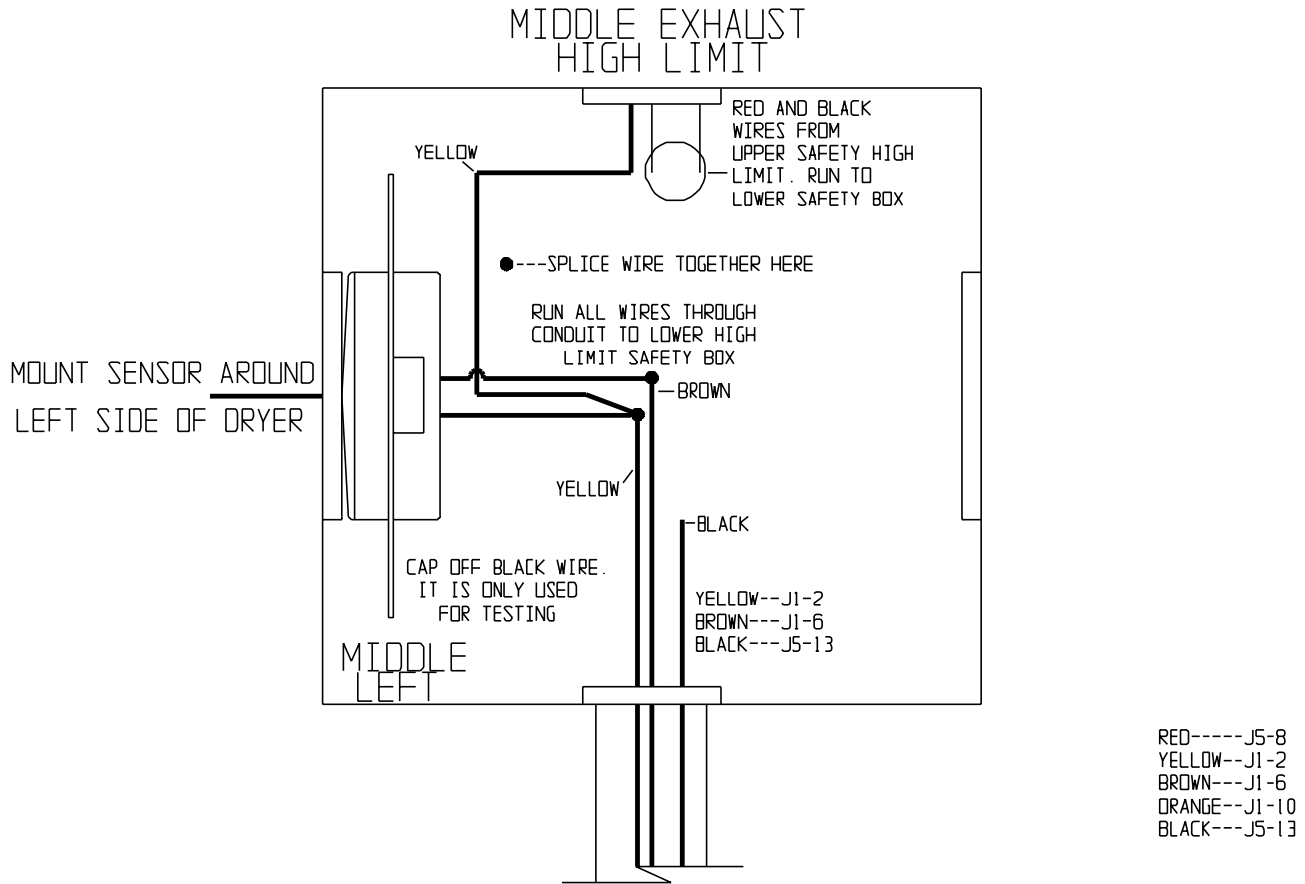
GSI TOWER DRYER WIRING DIAGRAMS

SINGLE FAN UPPER SAFETY HIGH LIMIT WIRING



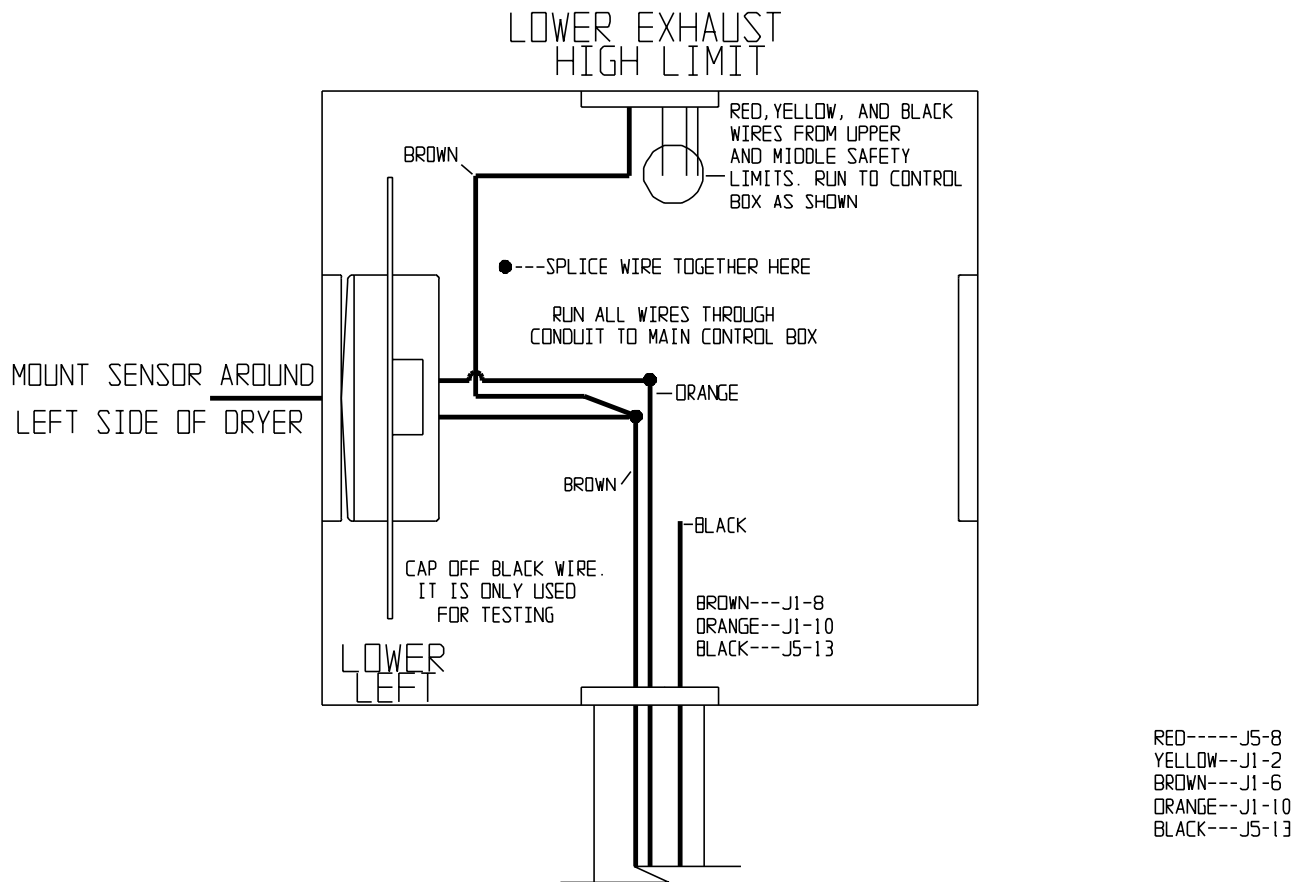
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN MIDDLE SAFETY HIGH LIMIT WIRING



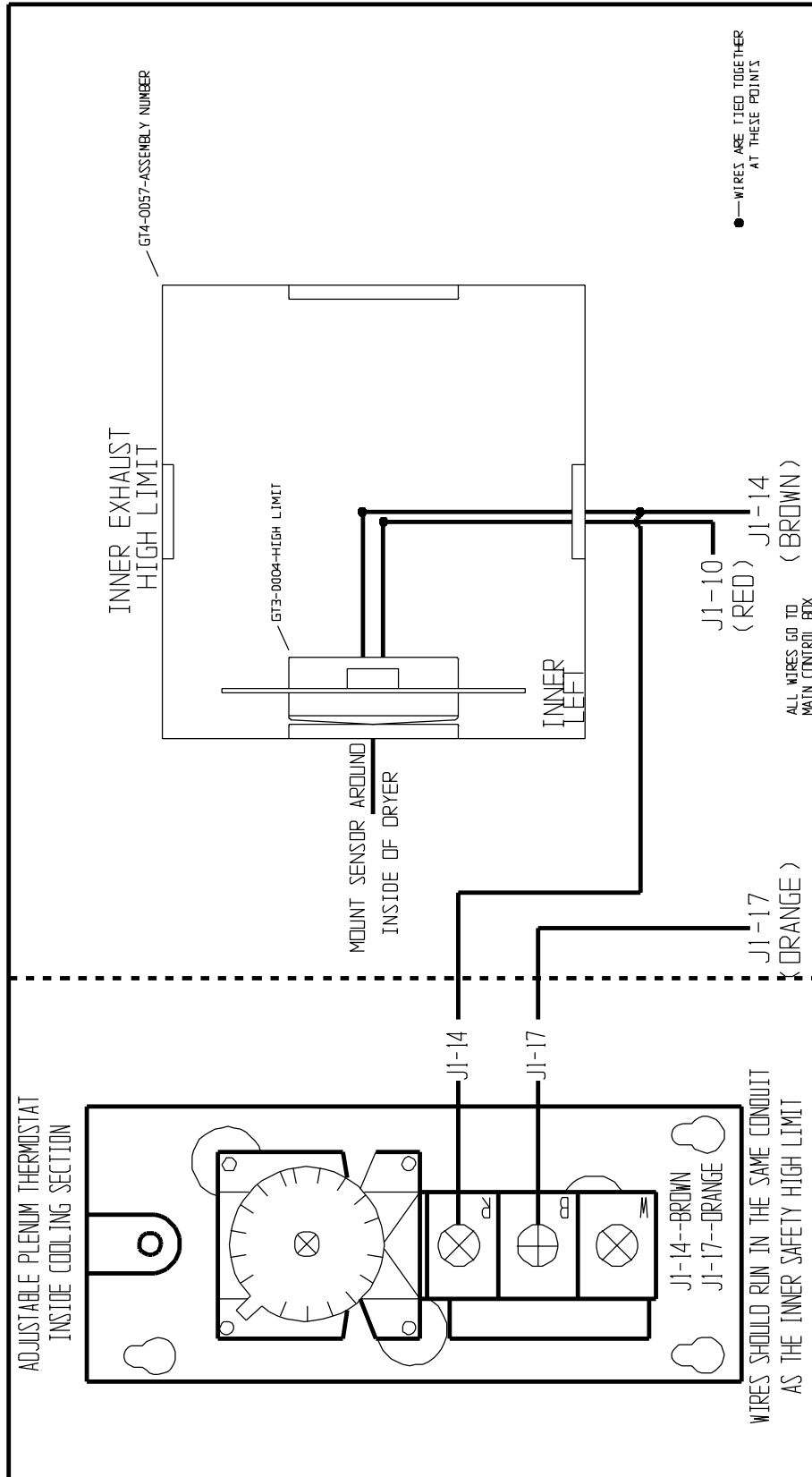
GSI TOWER DRYER WIRING DIAGRAMS

SINGLE FAN LOWER SAFETY HIGH LIMIT WIRING



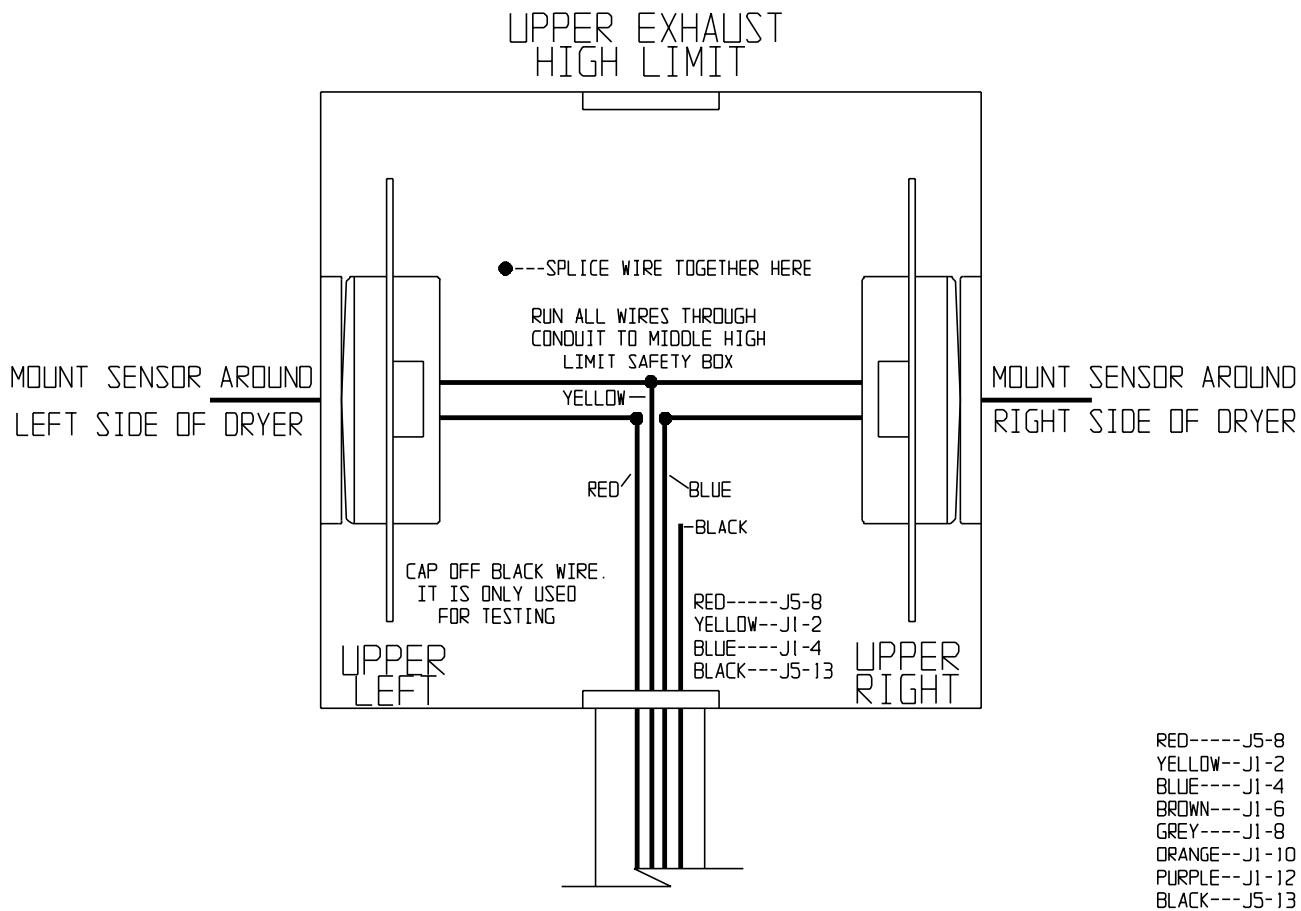
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN INSIDE SAFETY HIGH LIMIT WIRING



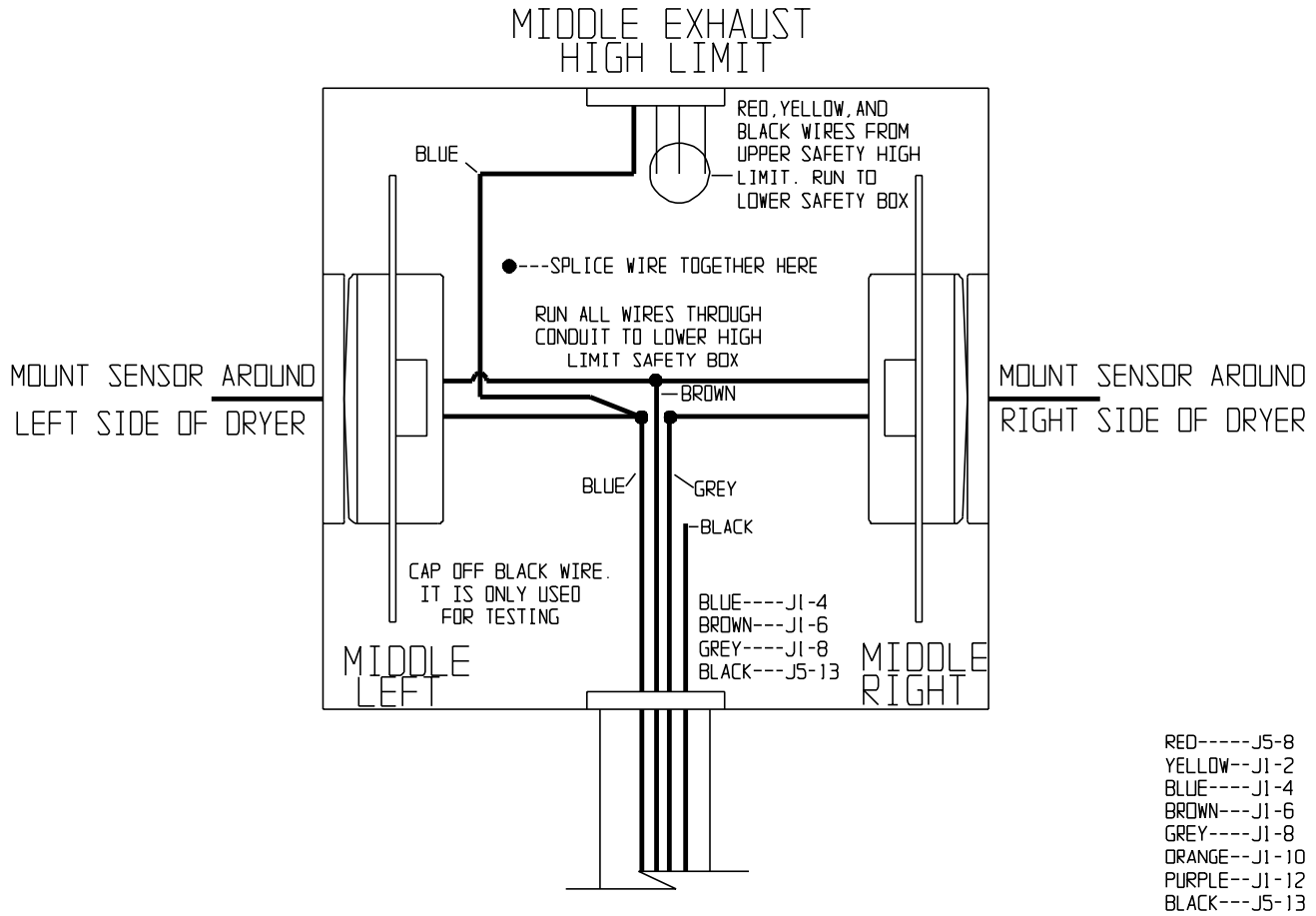
GSI TOWER DRYER WIRING DIAGRAMS

THREE & FOUR FAN UPPER SAFETY HIGH LIMIT WIRING



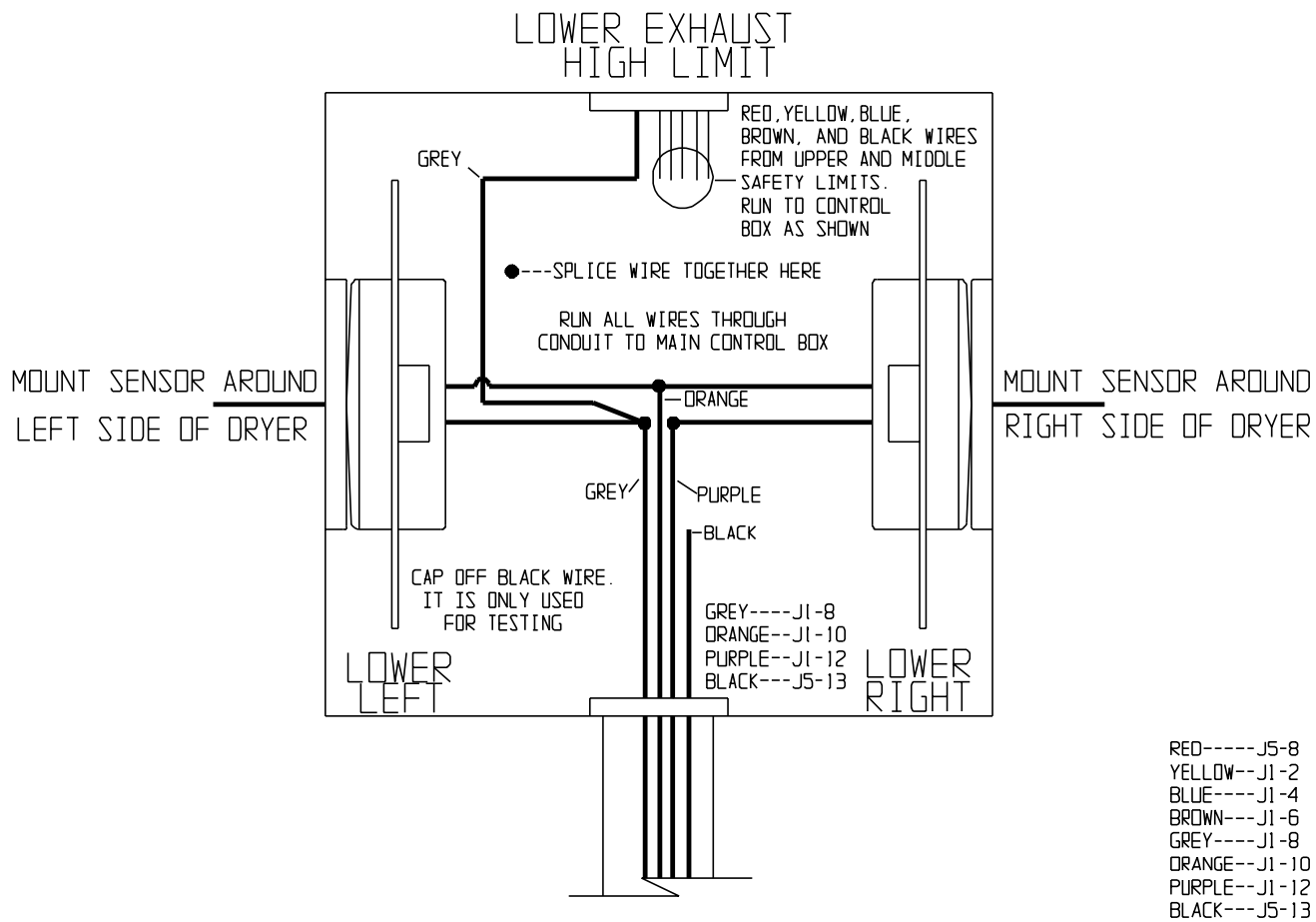
GSI TOWER DRYER WIRING DIAGRAMS

THREE & FOUR FAN MIDDLE SAFETY HIGH LIMIT WIRING



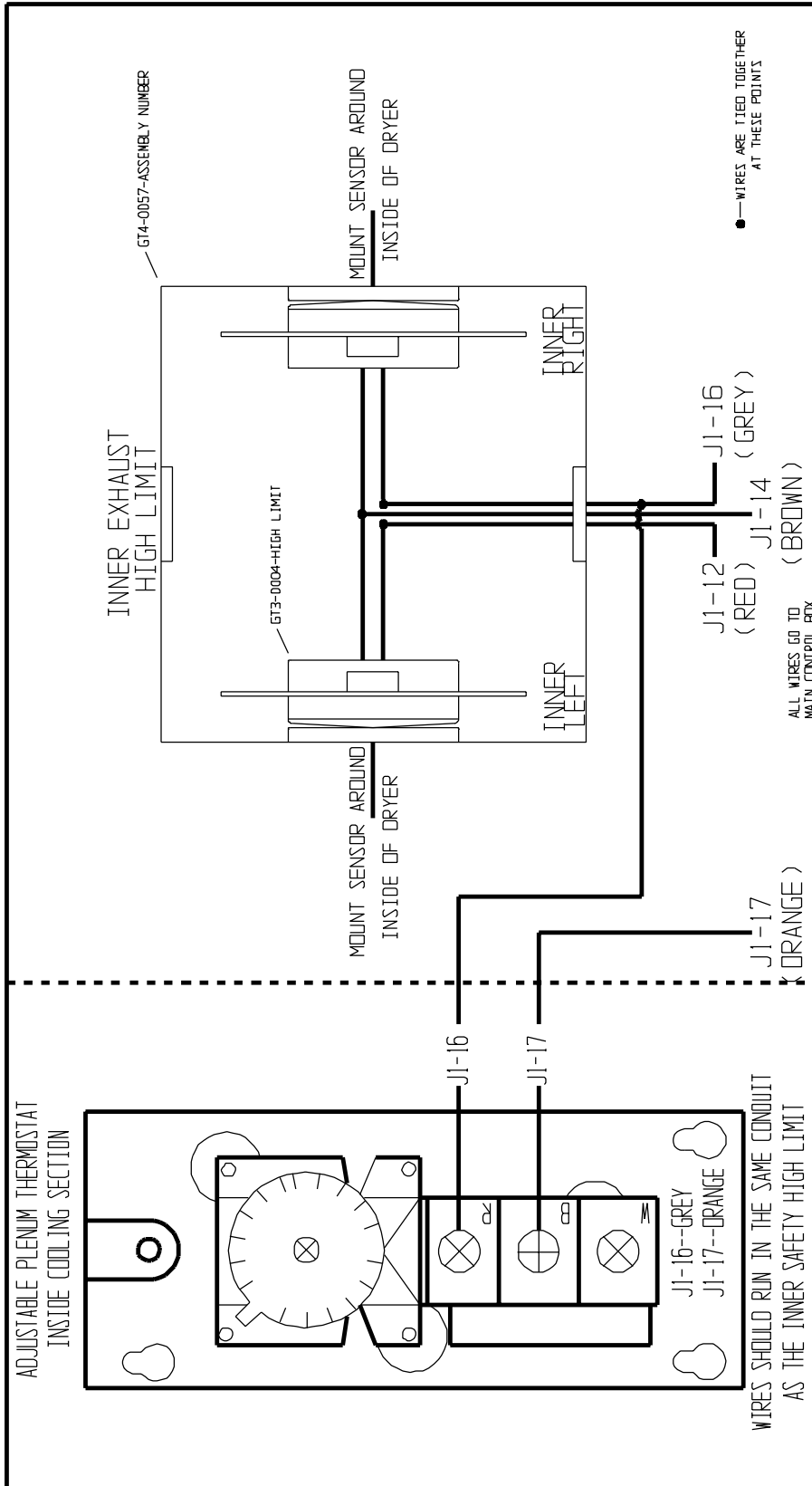
GS1 TOWER DRYER WIRING DIAGRAMS

THREE & FOUR FAN LOWER SAFETY HIGH LIMIT WIRING



GSI TOWER DRYER WIRING DIAGRAMS

THREE & FOUR FAN INSIDE SAFETY HIGH LIMIT WIRING

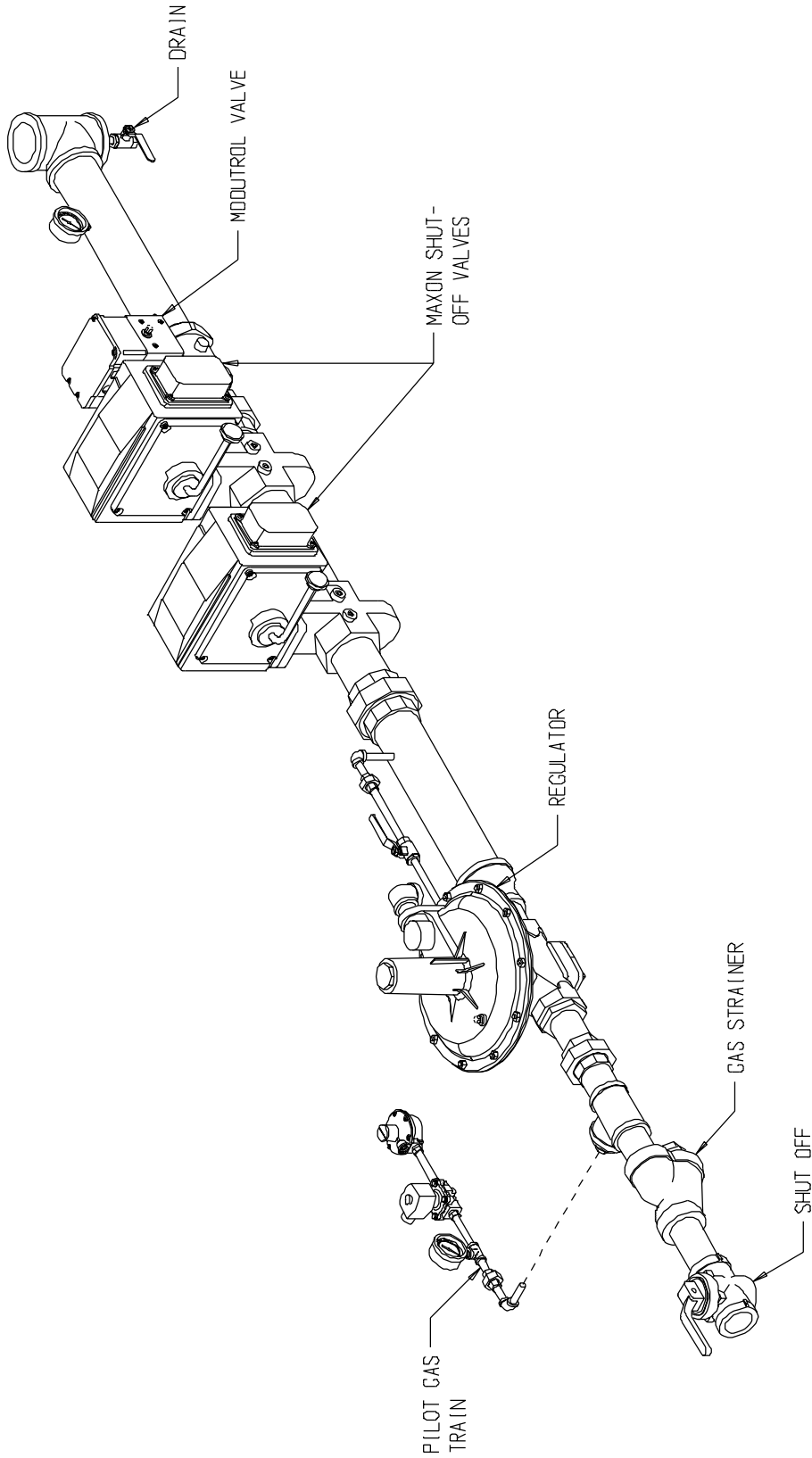


GSI TOWER DRYER WIRING DIAGRAMS

FUEL TRAIN

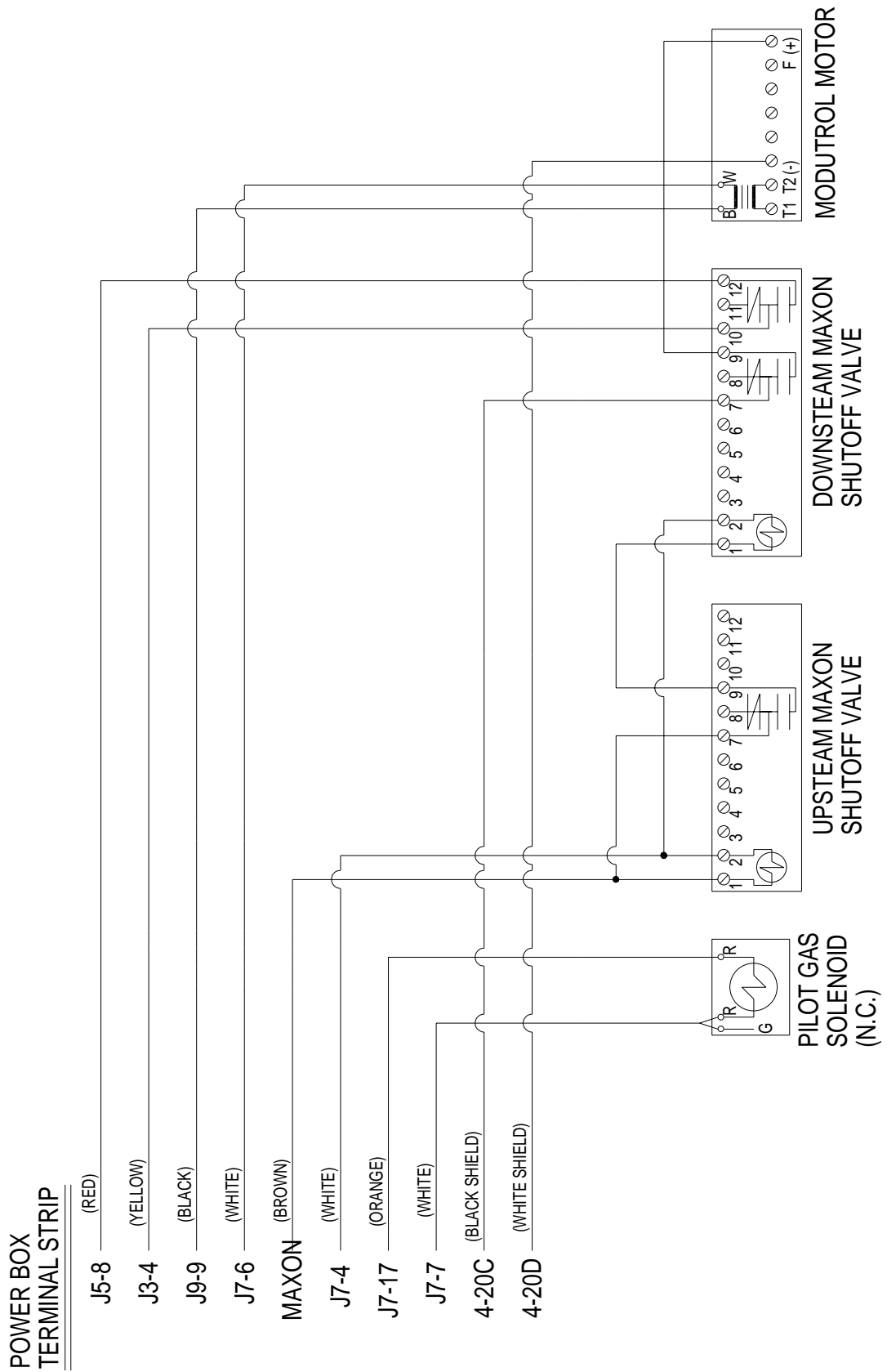
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FUEL TRAIN



GS1 TOWER DRYER WIRING DIAGRAMS

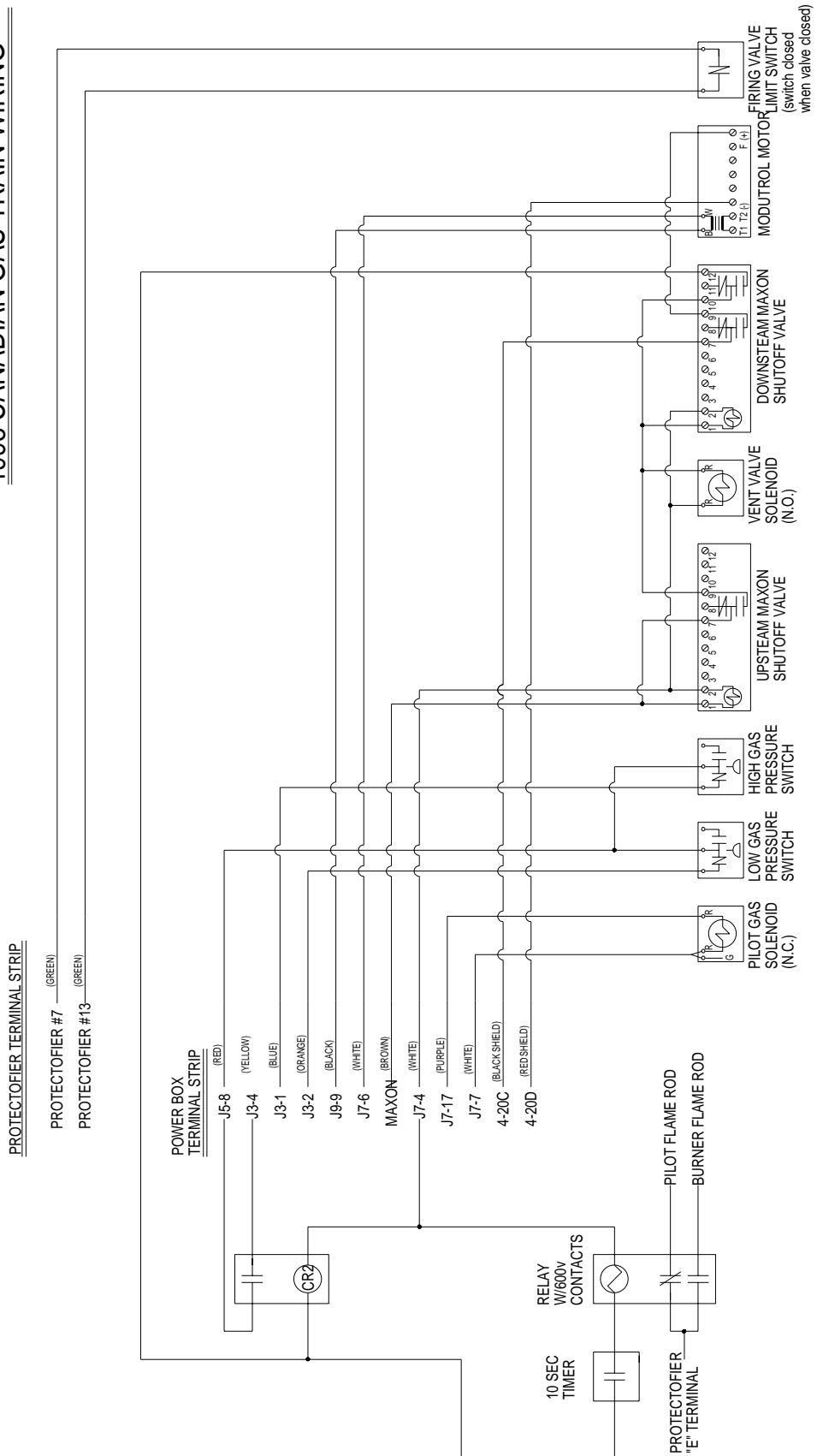
STANDARD FUEL TRAIN WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

CANADIAN FUEL TRAIN WIRING

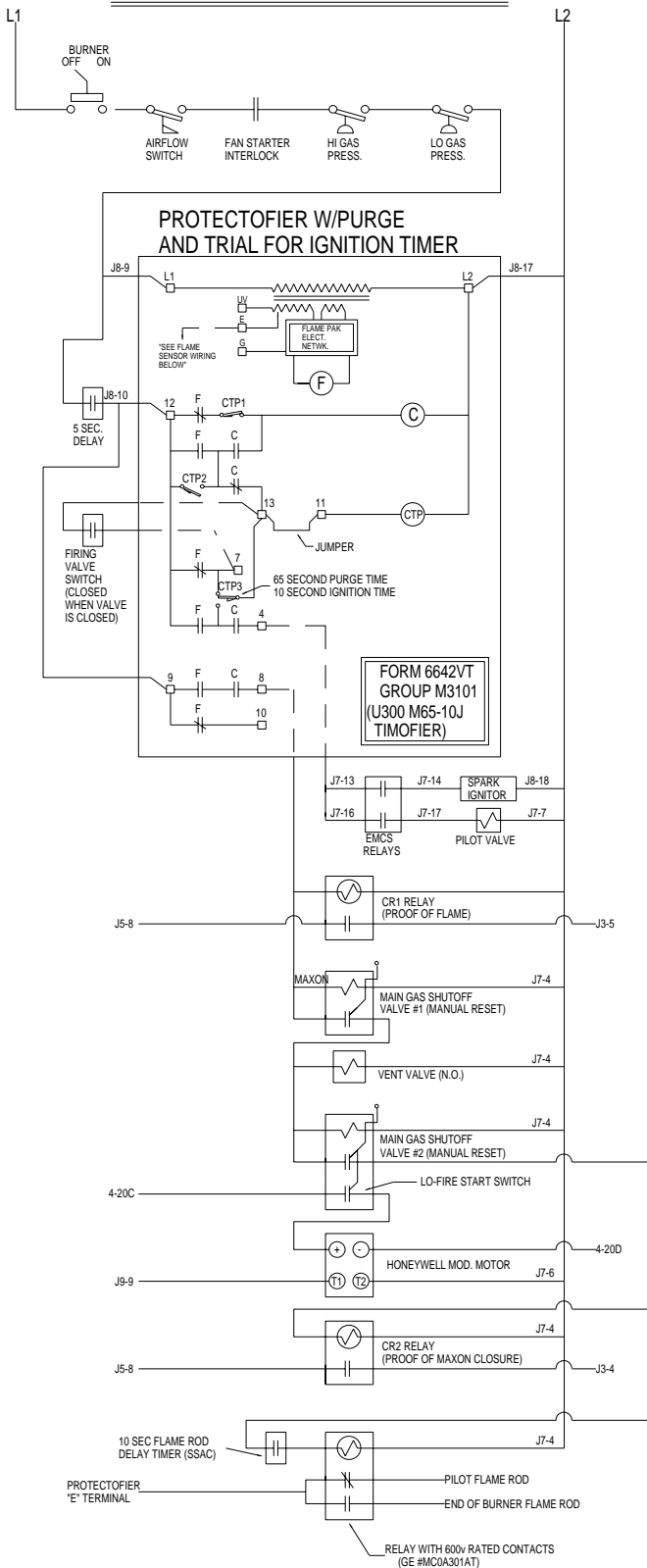
1998 CANADIAN GAS TRAIN WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

CANADIAN PROTECTOFIER WITH TIMOFIER WIRING

1998 CANADIAN FLAME SAFETY WIRING

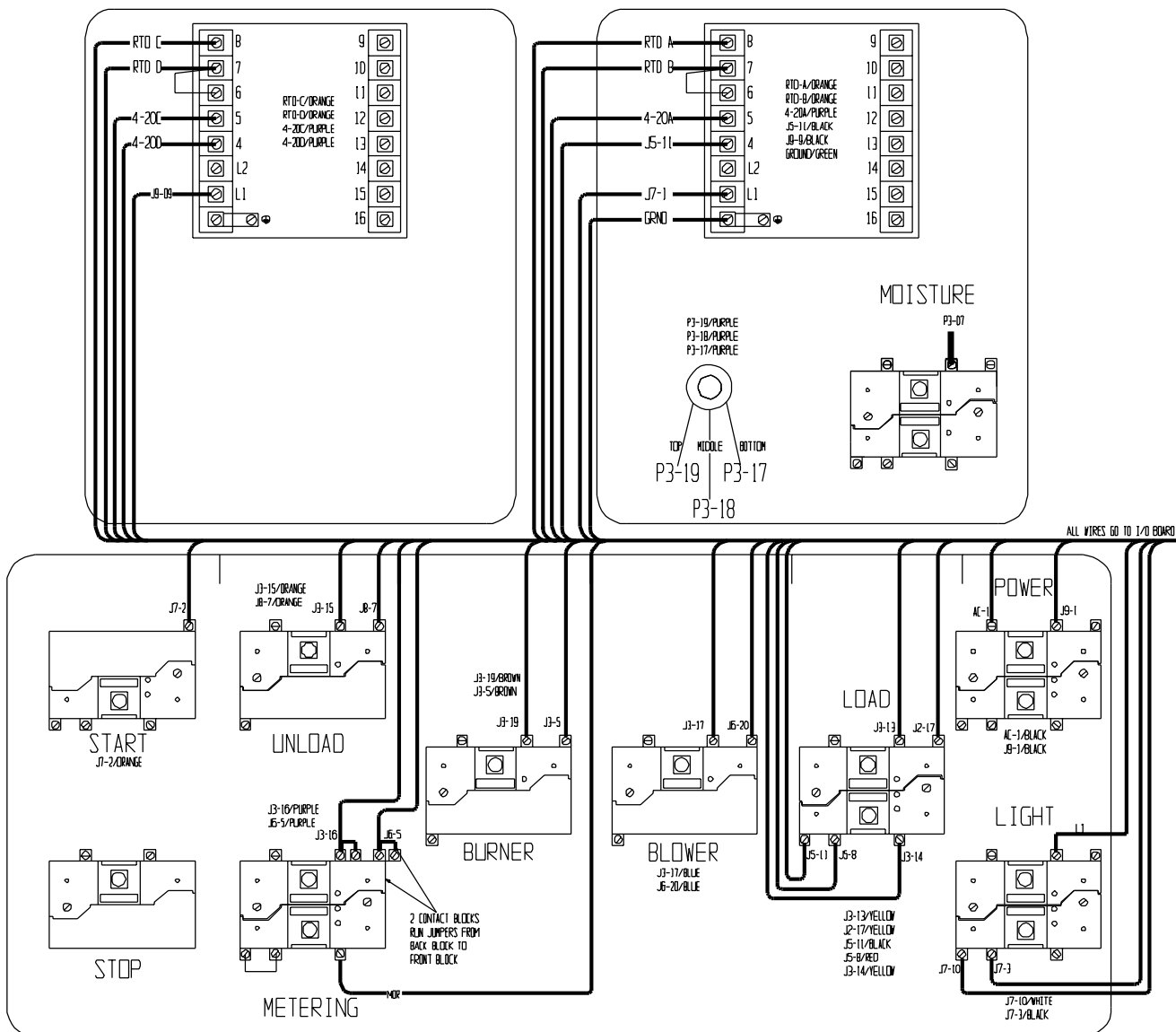


GSI TOWER DRYER WIRING DIAGRAMS

CONTROL PANEL WIRING

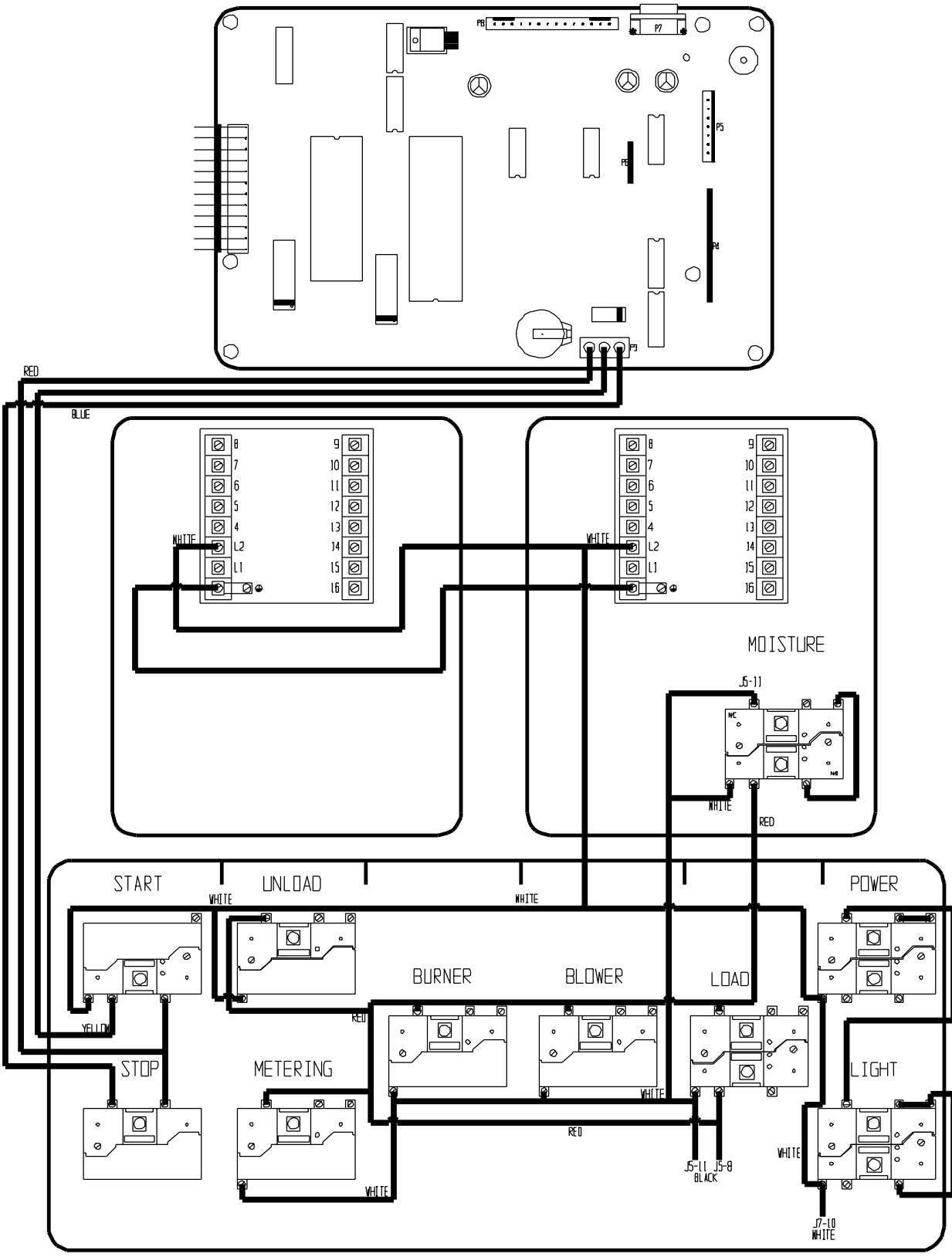
GS1 TOWER DRYER WIRING DIAGRAMS

CONTROL PANEL FRONT PANEL EXTERNAL WIRING



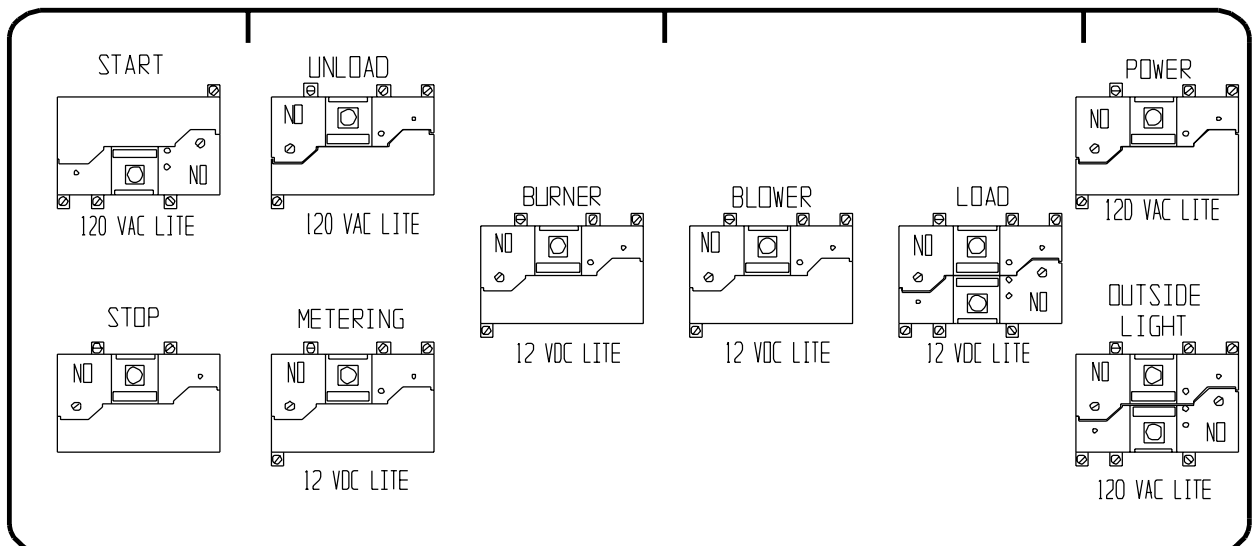
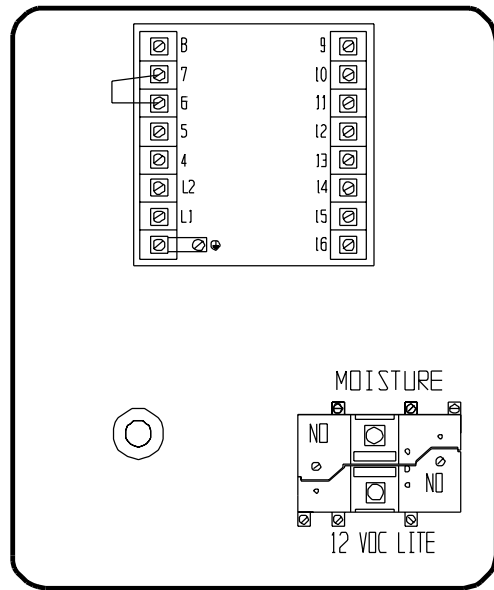
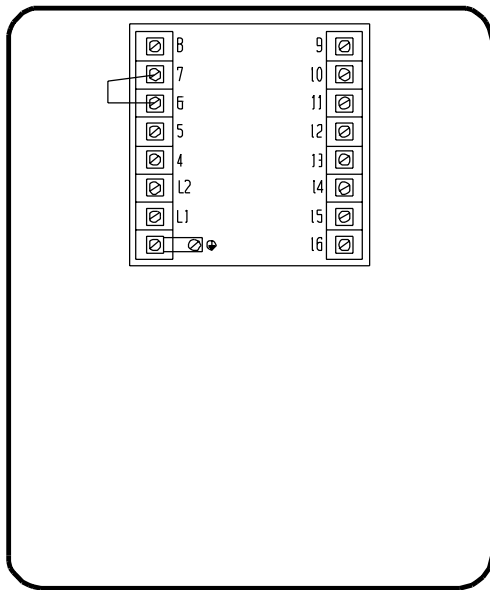
GS1 TOWER DRYER WIRING DIAGRAMS

CONTROL PANEL FRONT PANEL INTERNAL WIRING



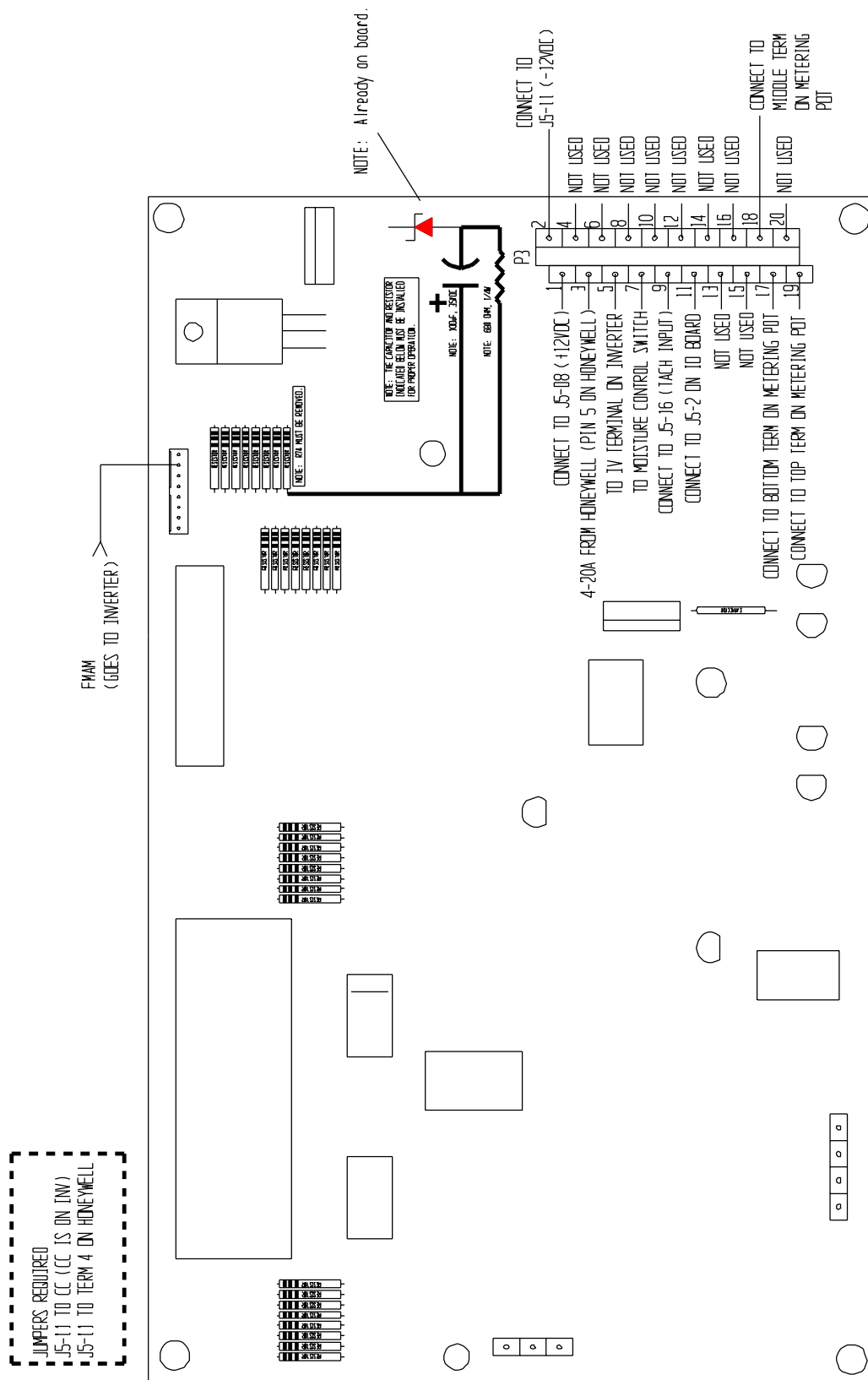
GS1 TOWER DRYER WIRING DIAGRAMS

CONTROL PANEL FRONT PANEL LIGHT BULB VOLTAGES



GS1 TOWER DRYER WIRING DIAGRAMS

PID BOARD WIRING

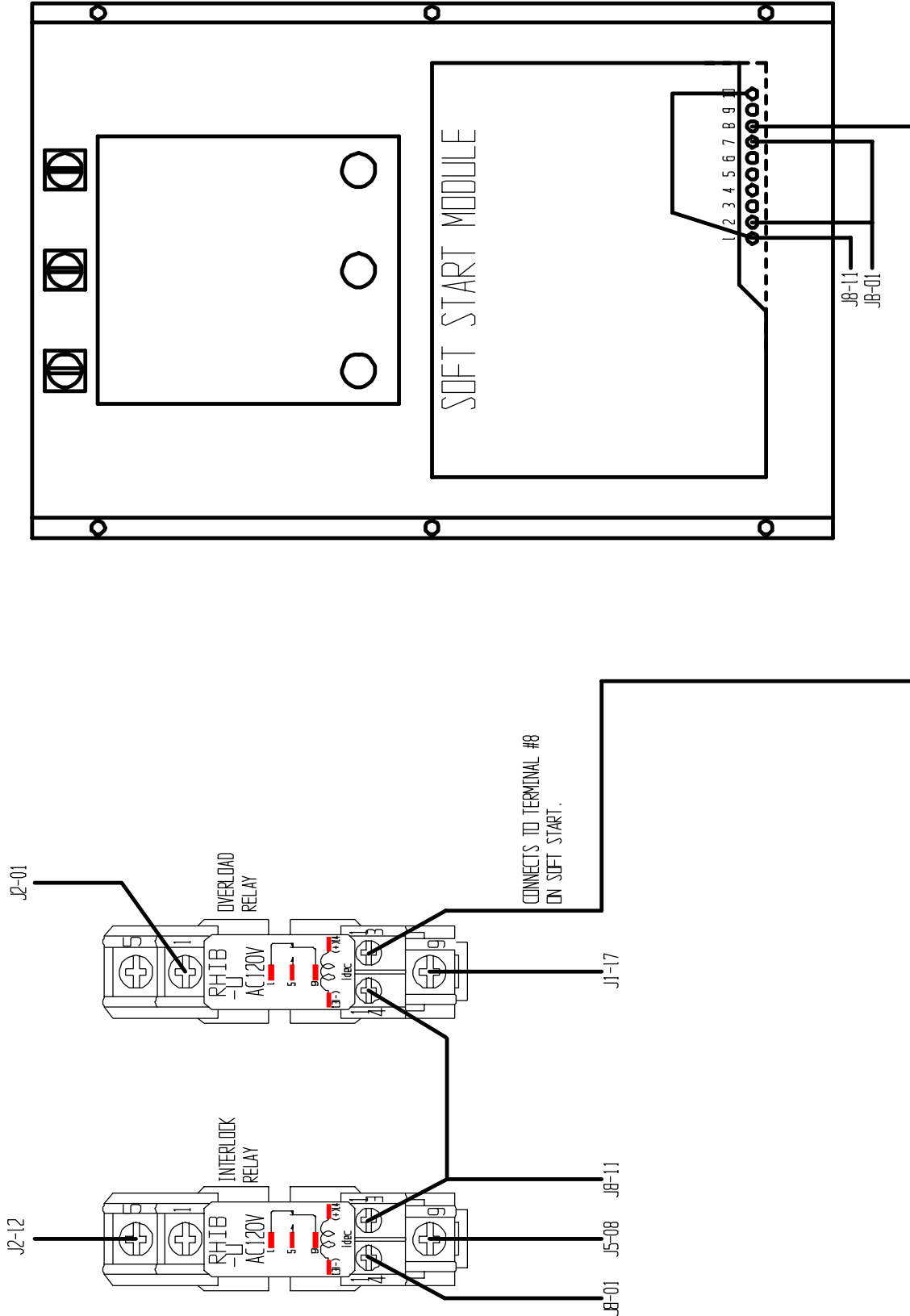


GSI TOWER DRYER WIRING DIAGRAMS

SPECIAL STARTER WIRING

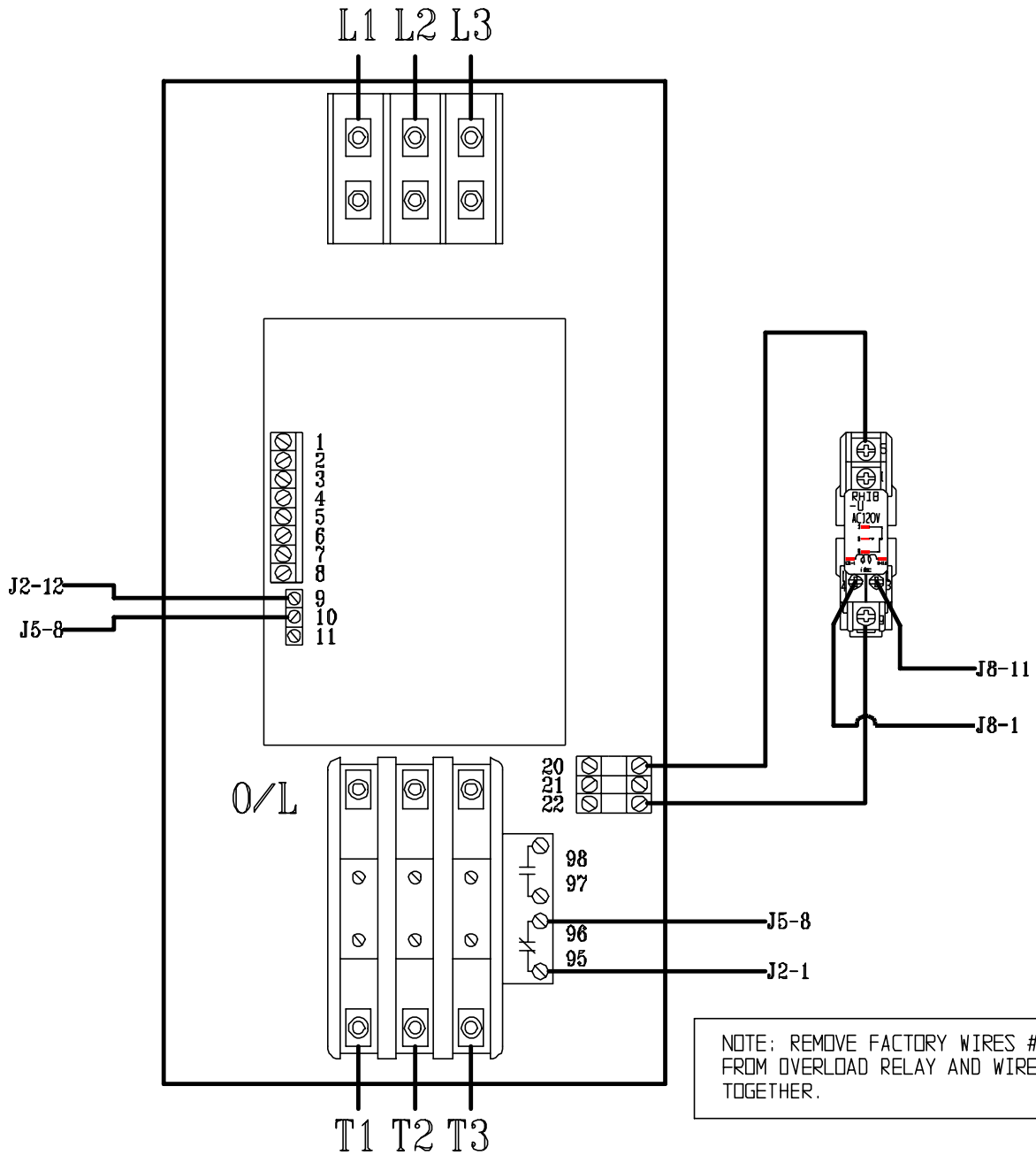
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN CUTLER HAMMER SOFT START WIRING



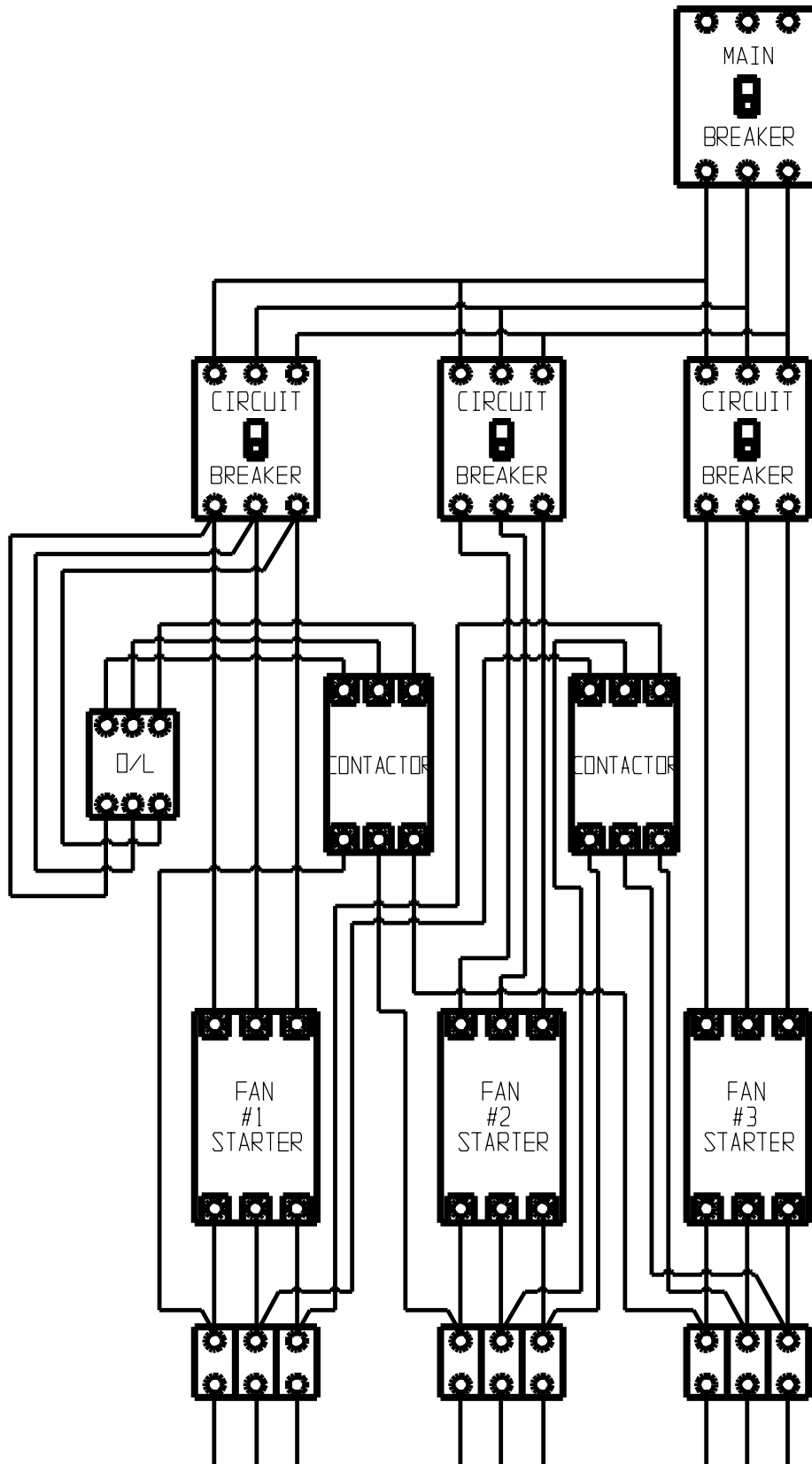
GSI TOWER DRYER WIRING DIAGRAMS

SINGLE FAN BENSCHAW SOFT START WIRING



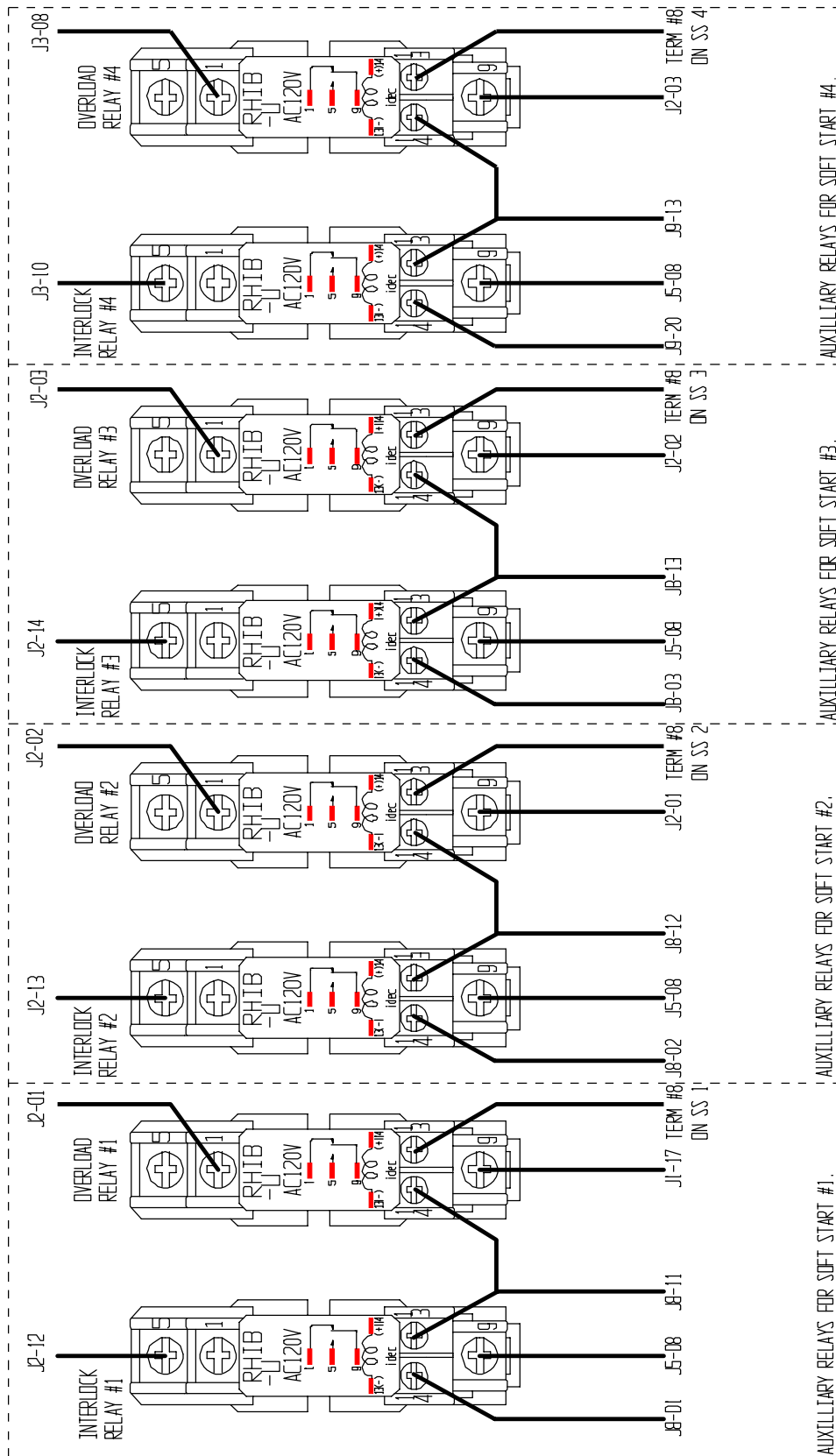
GSI TOWER DRYER WIRING DIAGRAMS

THREE FAN TRI-START POWER WIRING



GSI TOWER DRYER WIRING DIAGRAMS

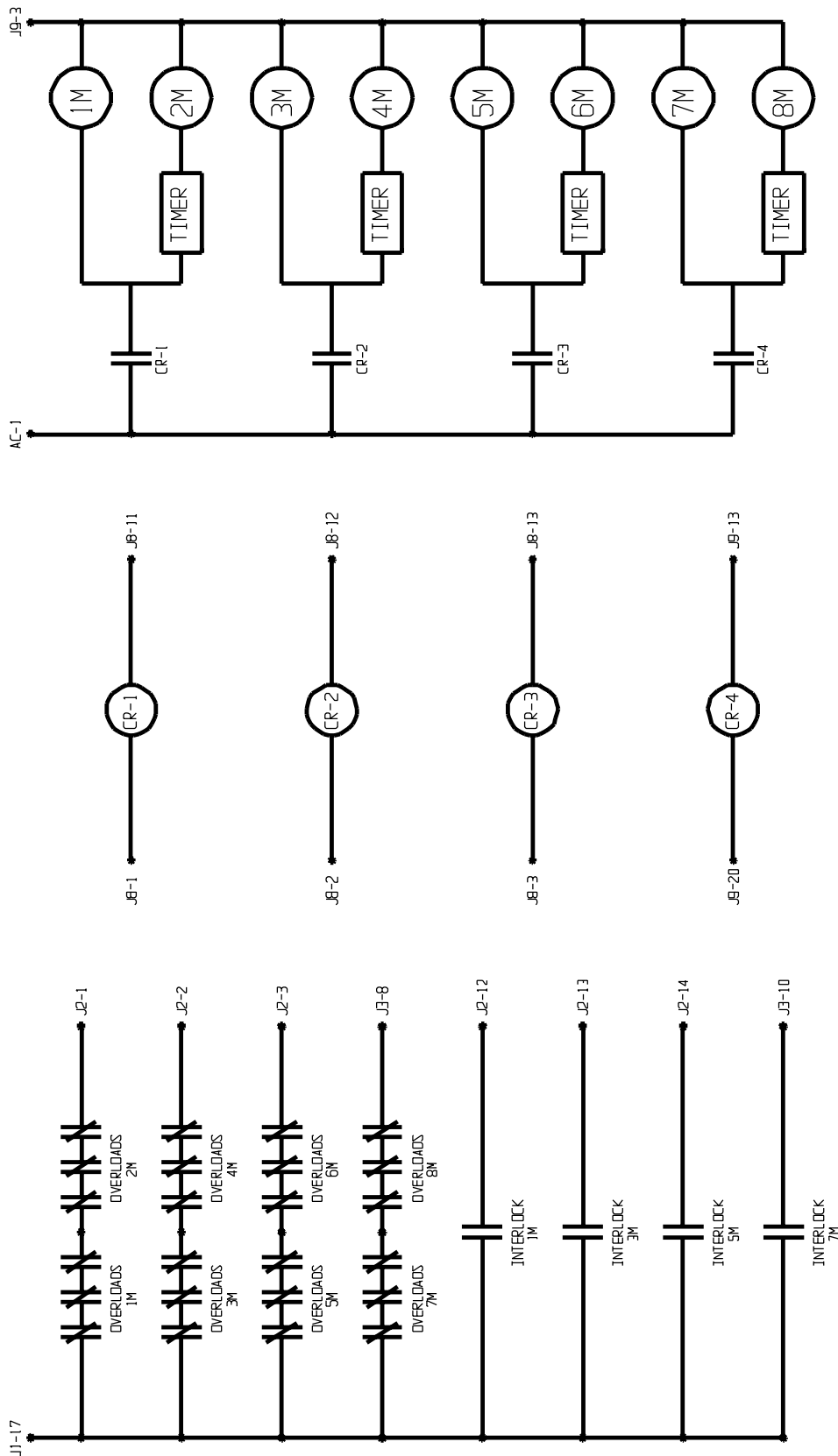
FOUR FAN CUTLER HAMMER SOFT START WIRING



NOTE: Terminals 2 and 7 on each soft start must be connected together.
 Terminals 1 and 10 on each soft start must be connected together.

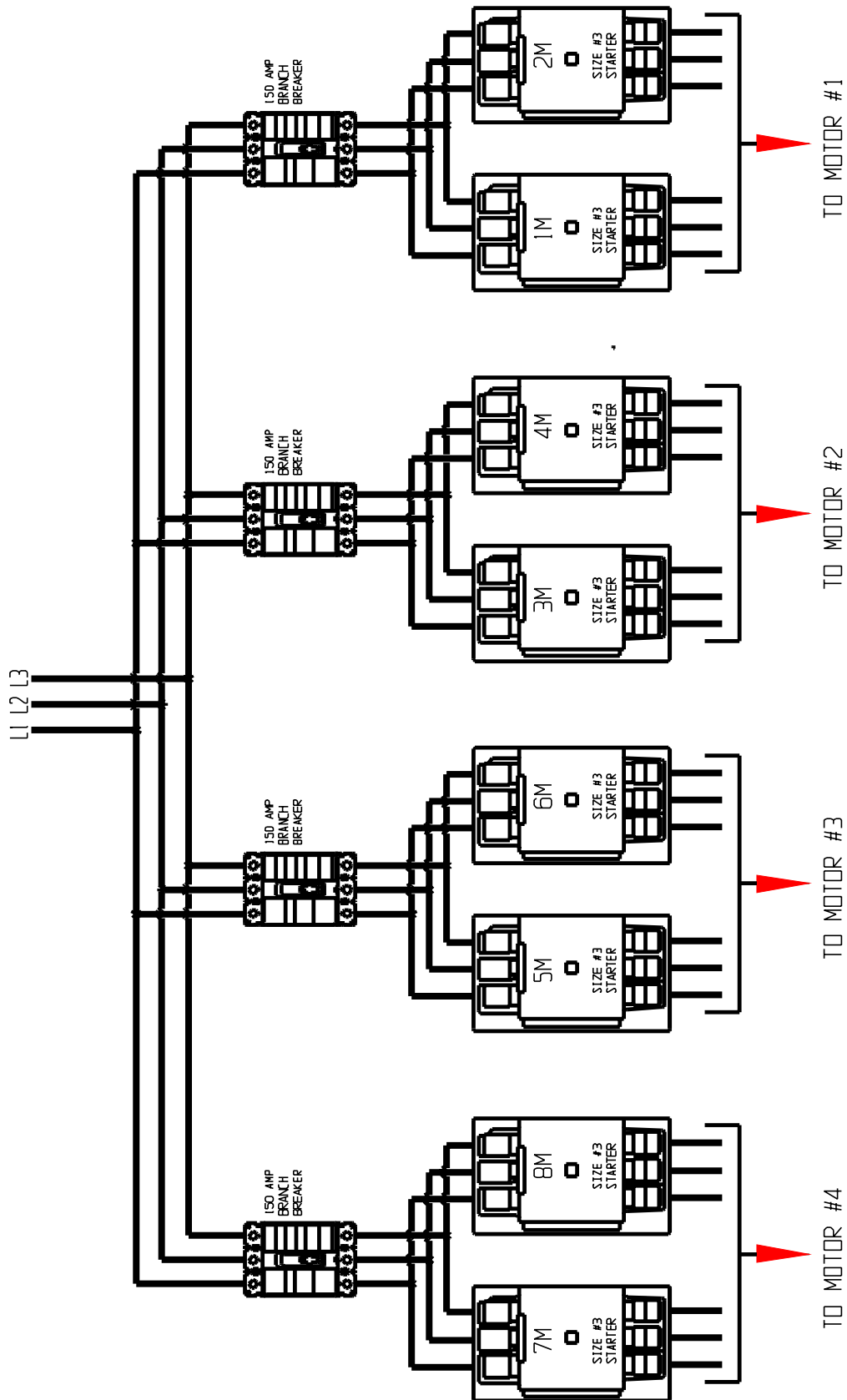
GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN PART WINDING START CONTROL WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN PART WINDING START POWER WIRING

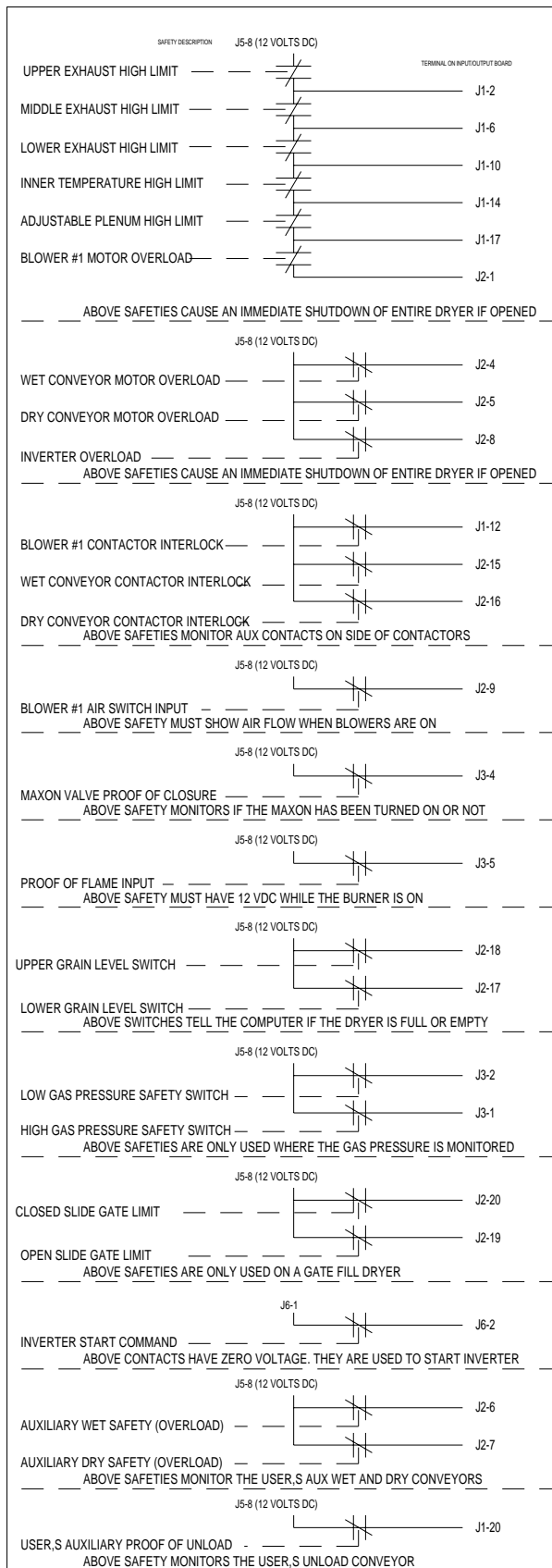


GSI TOWER DRYER WIRING DIAGRAMS

CONTROL WIRING

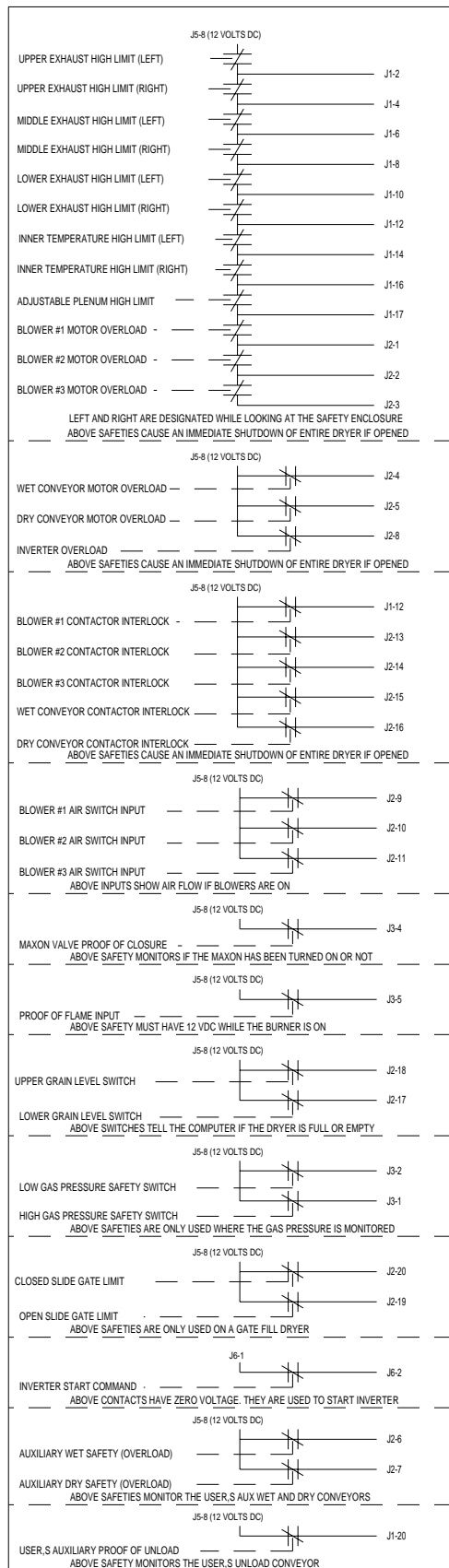
GS1 TOWER DRYER WIRING DIAGRAMS

SINGLE FAN CONTROL WIRING



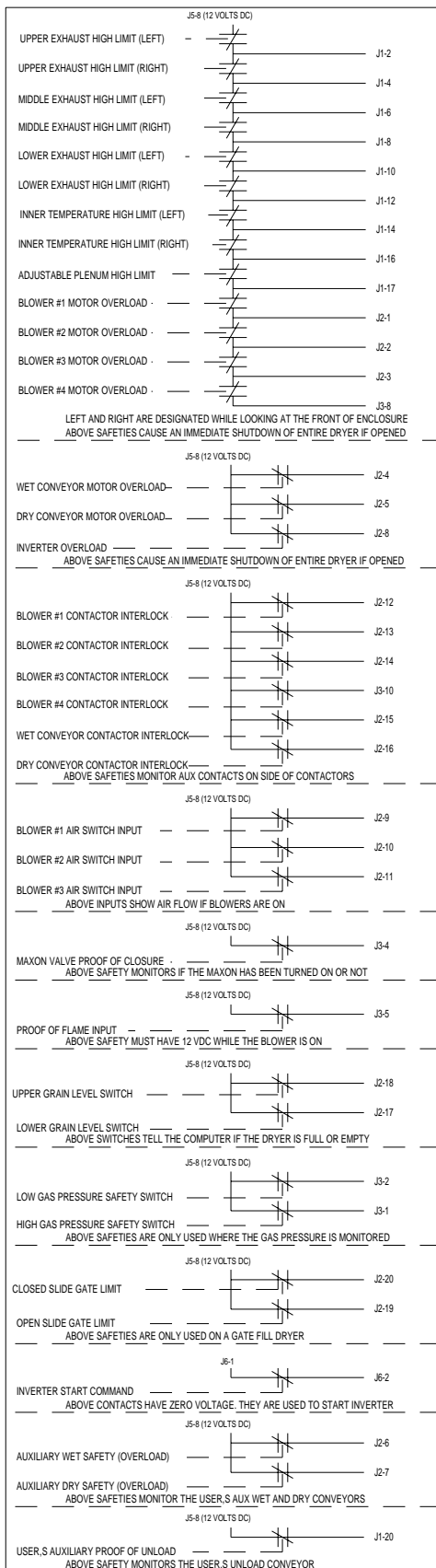
GS1 TOWER DRYER WIRING DIAGRAMS

THREE FAN CONTROL WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

FOUR FAN CONTROL WIRING

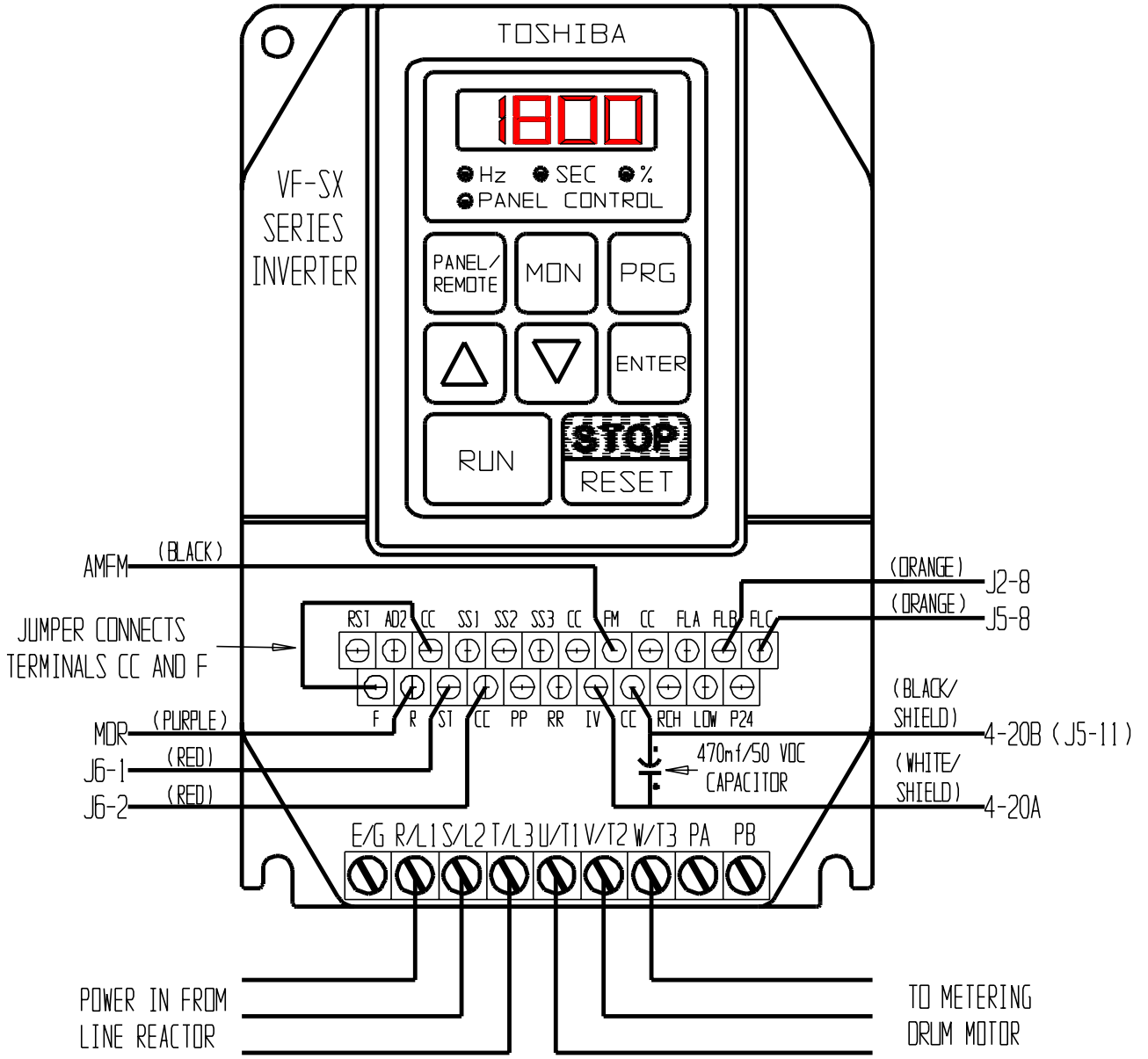


GSI TOWER DRYER WIRING DIAGRAMS

MISCELLANEOUS

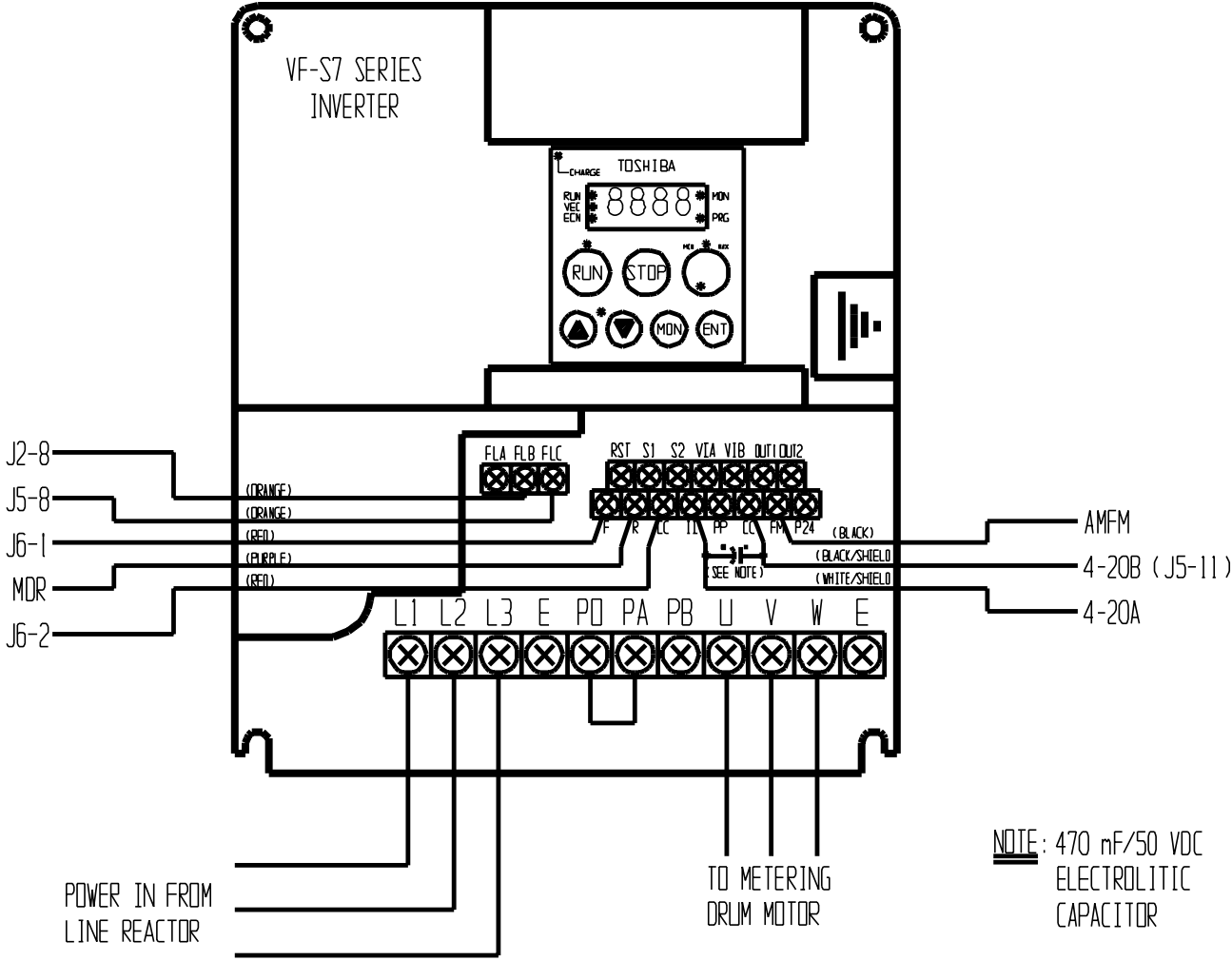
GSI TOWER DRYER WIRING DIAGRAMS

TOSHIBA VF-SX WIRING



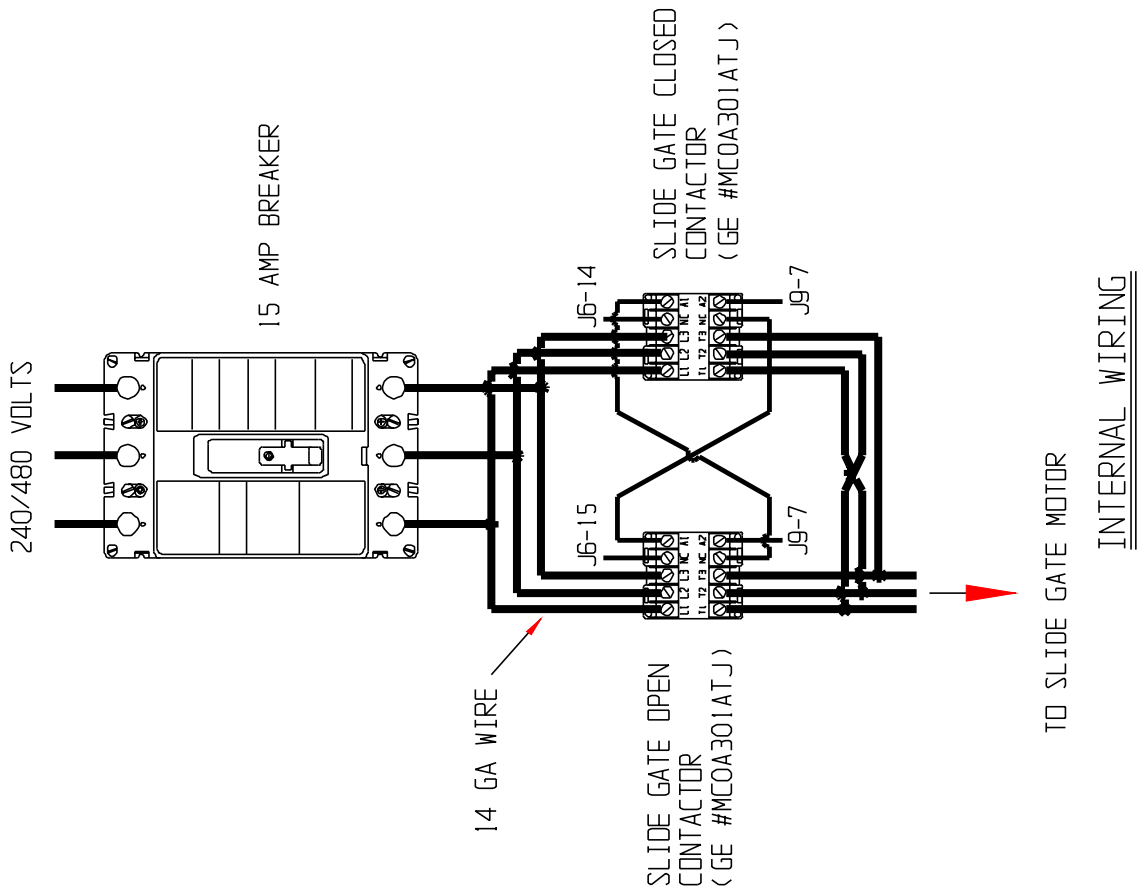
GSI TOWER DRYER WIRING DIAGRAMS

TOSHIBA VF-S7 WIRING



GS1 TOWER DRYER WIRING DIAGRAMS

SLIDE GATE CONTROL WIRING



"OPEN" SLIDE GATE LIMIT



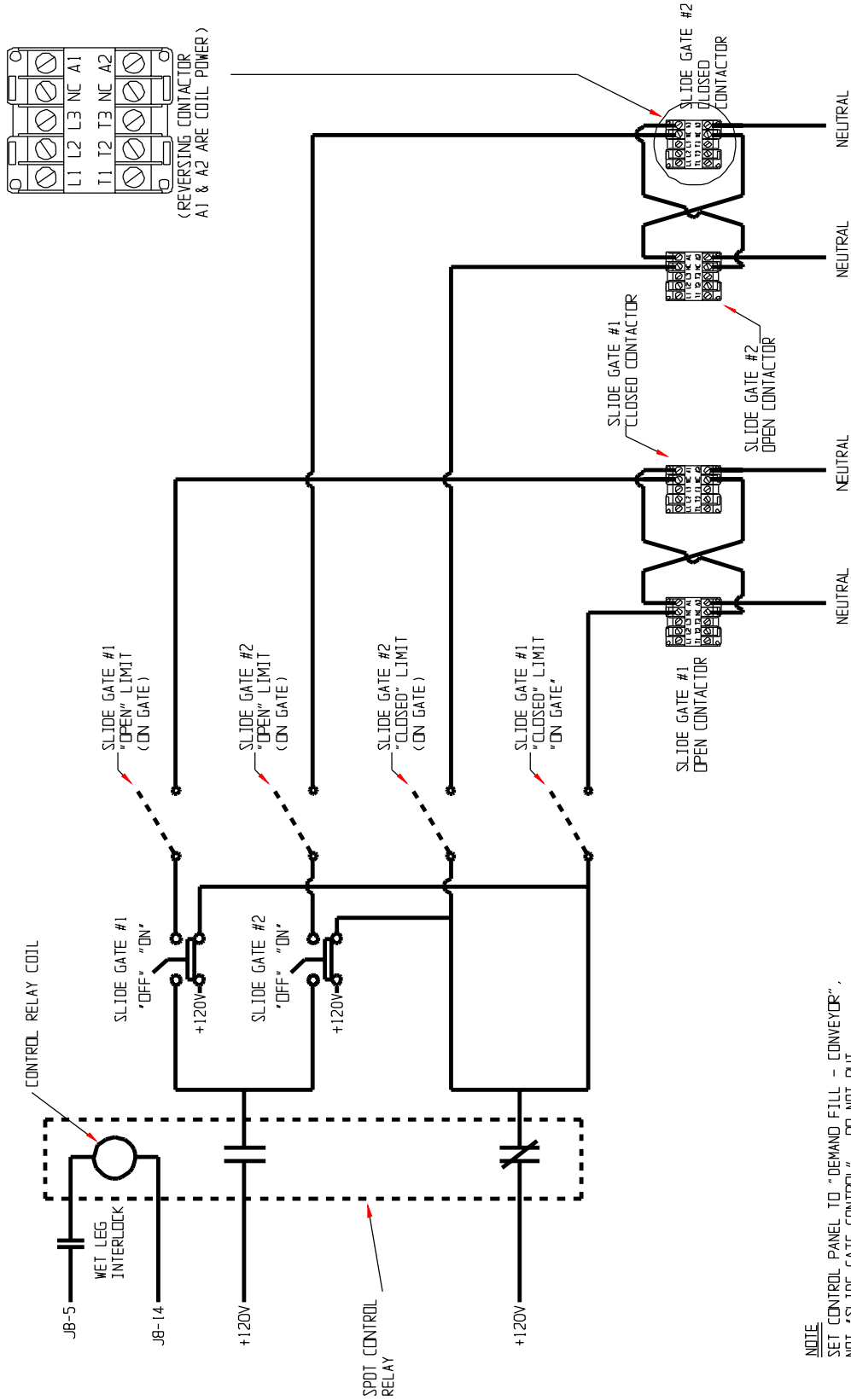
"CLOSED" SLIDE GATE LIMIT



EXTERNAL WIRING

GS1 TOWER DRYER WIRING DIAGRAMS

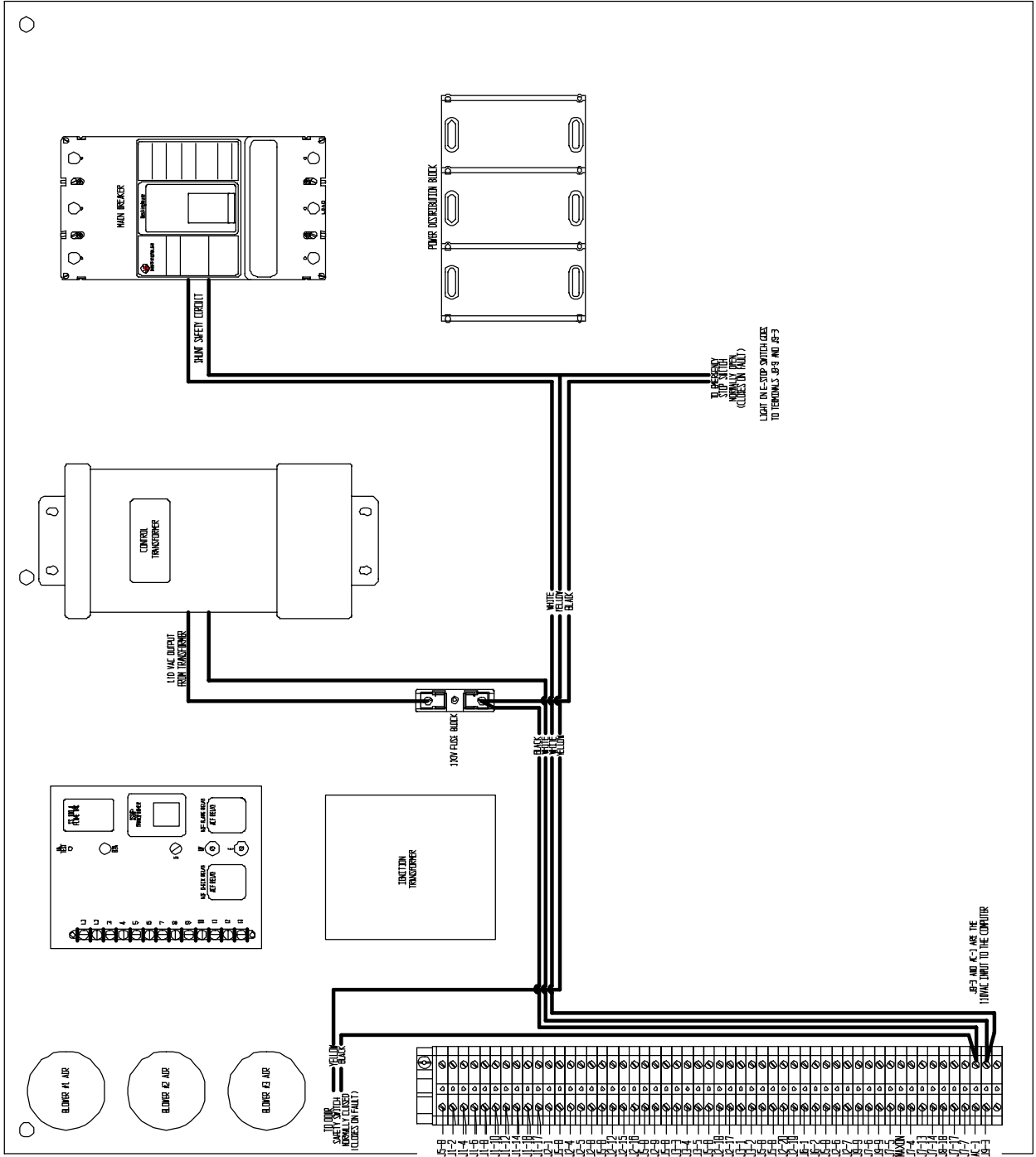
DUAL SLIDE GATE CONTROL WIRING



NOTE
 SET CONTROL PANEL TO "DEMAND FILL - CONVEYOR".
 NOT "SLIDE GATE CONTROL". DO NOT PUT
 IN SLIDE GATE JUMPERS

GSI TOWER DRYER WIRING DIAGRAMS

TRANSFORMER WIRING/DOOR SAFETY CIRCUIT



AIRSTREAM GRAIN CONDITIONING SYSTEMS

a division of

THE GSI GROUP



1004 E. Illinois St., Box 20
Assumption, IL 62510-0020
phone: 217-226-4421
fax: 217-226-4420

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