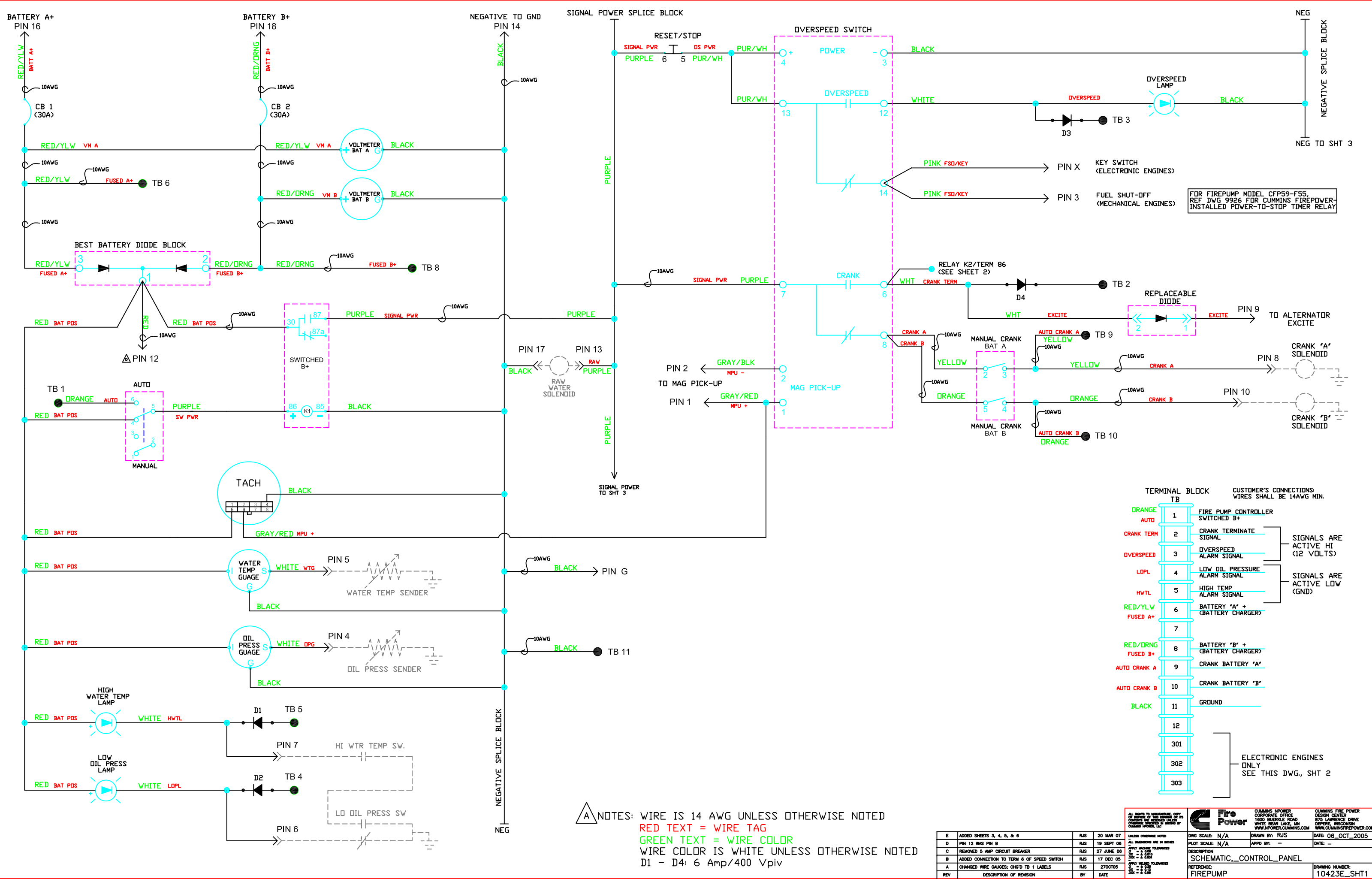


Before 14 December
2009

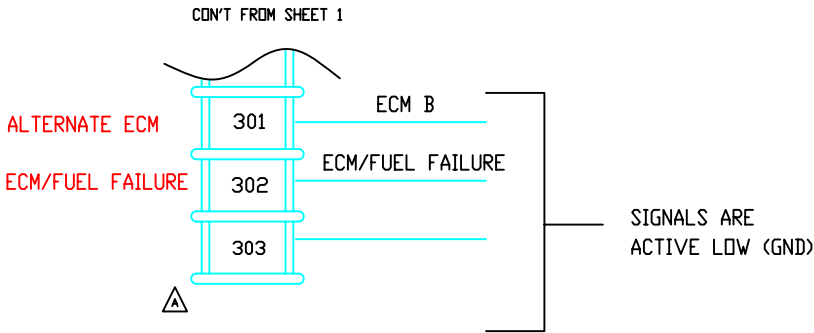
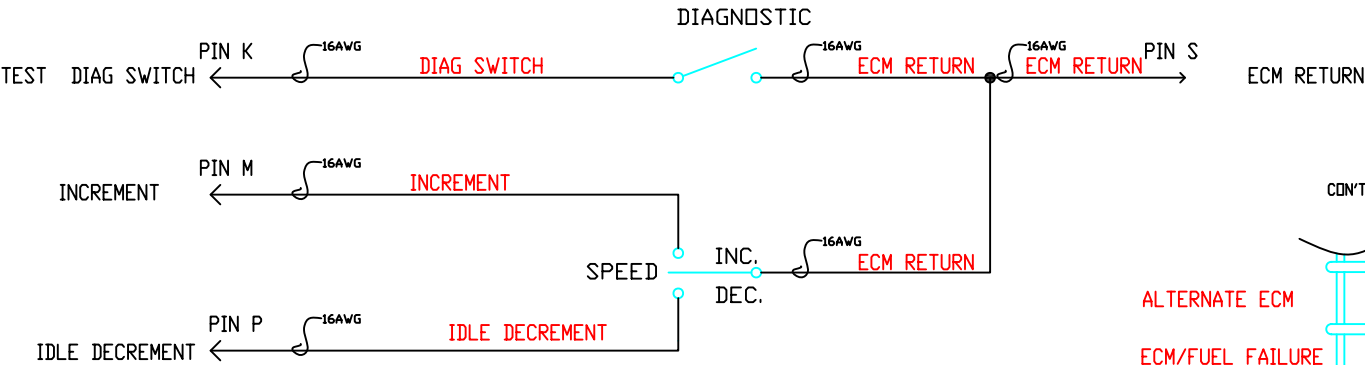
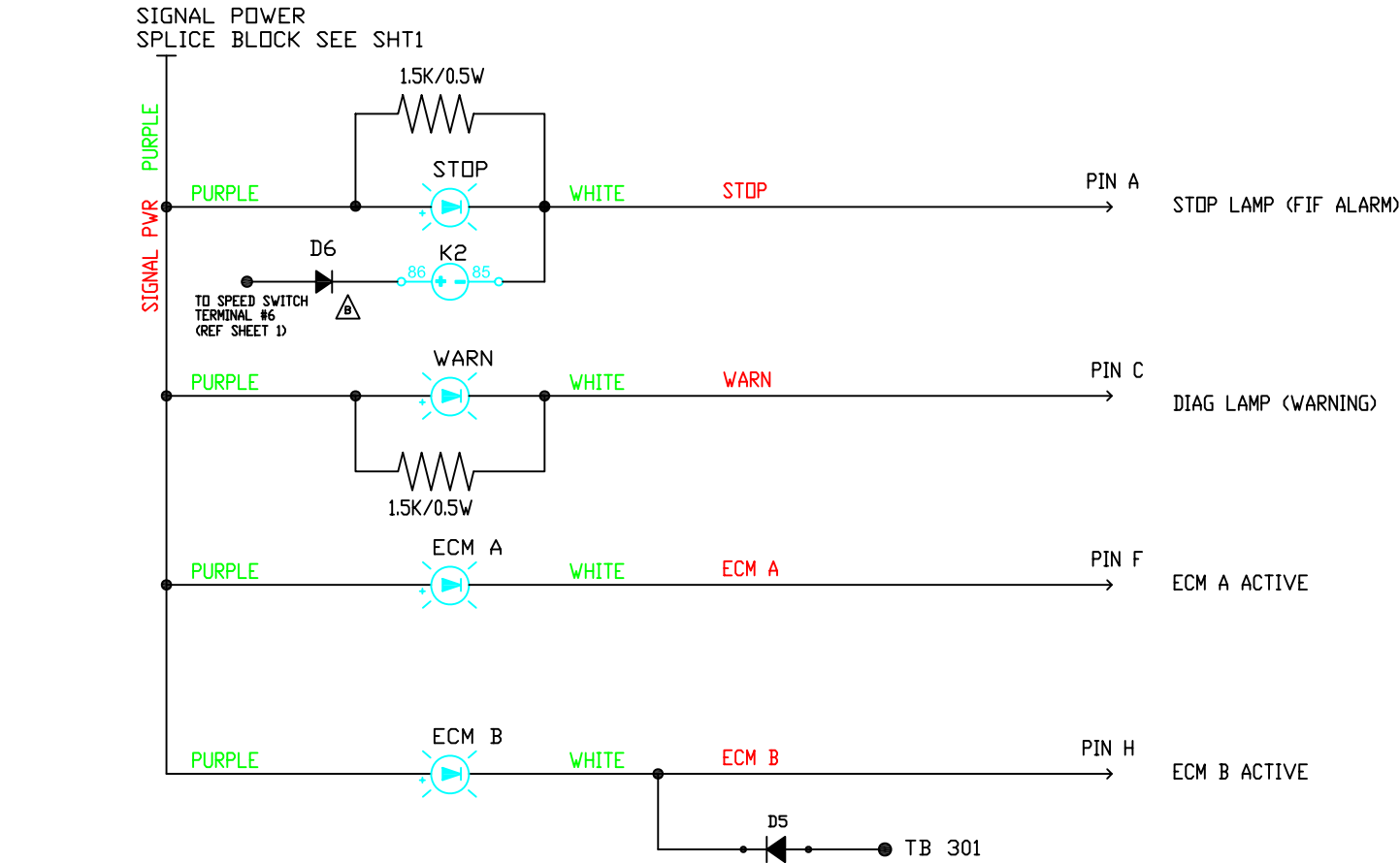


NOTES: WIRE IS 14 AWG UNLESS OTHERWISE NOTED
RED TEXT = WIRE TAG
GREEN TEXT = WIRE COLOR
WIRE COLOR IS WHITE UNLESS OTHERWISE NOTED
D1 - D4: 6 Amp/400 Vpiv

E	ADDED SHEETS 3, 4, 5, & 6	RJS	20 MAR 07	UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES APPLY MACHINE TOLERANCES 3/16" = 0.0015" 3/32" = 0.0015" 1/8" = 0.0015"	DWG SCALE: N/A	DESIGN CENTER 875 LAWRENCE DRIVE DEPERE, WISCONSIN WWW.CUMMINSFIREPOWER.COM	CUMMINS FIRE POWER CORPORATE OFFICE 1800 BLUEBERRY ROAD WHITE BEAR LAKE, MN WWW.CUMMINSFIREPOWER.COM	DATE: 06_OCT_2005
D	PIN 12 WAS PIN 8	RJS	19 SEPT 06		PLOT SCALE: N/A	APPD BY: RJS		DATE: --
C	REMOVED 5 AMP CIRCUIT BREAKER	RJS	27 JUNE 06					
B	ADDED CONNECTION TO TERM 6 OF SPEED SWITCH	RJS	17 DEC 05					
A	CHANGED WIRE GAUGES; CHG'D TB 1 LABELS	RJS	27OCT05					
REV	DESCRIPTION OF REVISION	BY	DATE					

DESCRIPTION	SCHEMATIC, CONTROL PANEL
REFERENCE	FIREPUMP
DRAWING NUMBER	10423E_SHT1

ADDITIONAL CIRCUITS FOR ELECTRONIC ENGINES



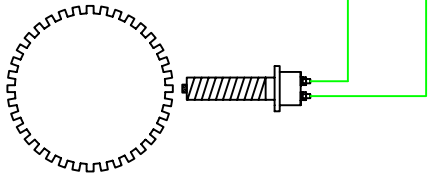
LEGEND:
K2 ECM/FUEL FAIL RELAY
R RESISTOR

NOTES: WIRE IS 14AWG UNLESS OTHERWISE NOTED
RED TEXT = WIRE TAG
GREEN TEXT = WIRE COLOR
WIRE COLOR IS WHITE UNLESS OTHERWISE NOTED
RESISTOR VALUE = 15Kohms, 1/2W
MINIMUM DIODE RATING: 6A/400V

E	ADDED SHEETS 3, 4, 5, & 6	RJS	20 MAR 07	UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES	DWG SCALE: N/A	DRAWN BY: RJS	DATE: 06_OCT_2005
D	SEE SHT 1 FOR REV CHANGE	RJS	19 SEPT 06	APPLY MACHINE TOLERANCES 31 - 2.000 32 - 2.000 33 - 2.000	PLOT SCALE: N/A	APPD BY: --	DATE: --
C	REDREW	RJS	3 JULY 06	APPLY MOLD TOLERANCES 31 - 2.000 32 - 2.000 33 - 2.000	DESCRIPTION SCHEMATIC;_CONTROL_PANEL		
B	CHG'D WIRING OF K2	RJS	17 DEC 05		REFERENCE: FIREPUMP		DRAWING NUMBER: 10423E_SHT2
A	REF PAGE 1 REV NOTES	RJS	27 OCT 05				
REV	DESCRIPTION OF REVISION	BY	DATE				

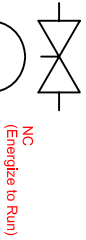
CONTROL PANEL
CONNECTOR

ALL MODELS EXCEPT:
CFP33-Fxx
CFP55-F55



MECHANICAL ENGINES — 3
ELECTRONIC ENGINES — X

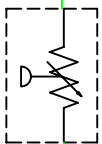
FSO (SW B+); MECHANICAL
KEYSWITCH; ELECTRONIC



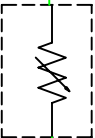
1 < MPU

2 < MPU

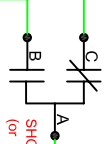
4 < OIL PRES. SENDER



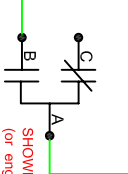
5 < WATER TEMP SENDER



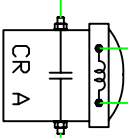
6 < OIL PRES. SWITCH



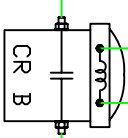
7 < WATER TEMP SWITCH



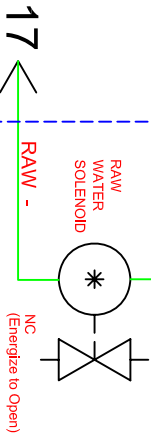
8 < CRANK BAT A



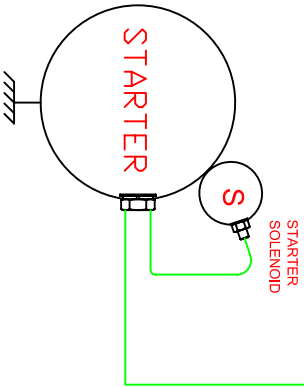
10 < CRANK BAT B



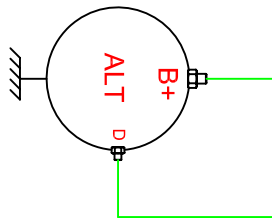
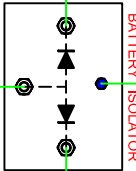
13 < RAW +



17 < RAW -



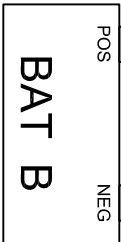
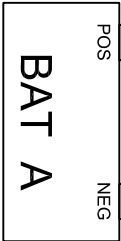
9 < ALT EXC (SW B+)



16 < BAT A

18 < BAT B

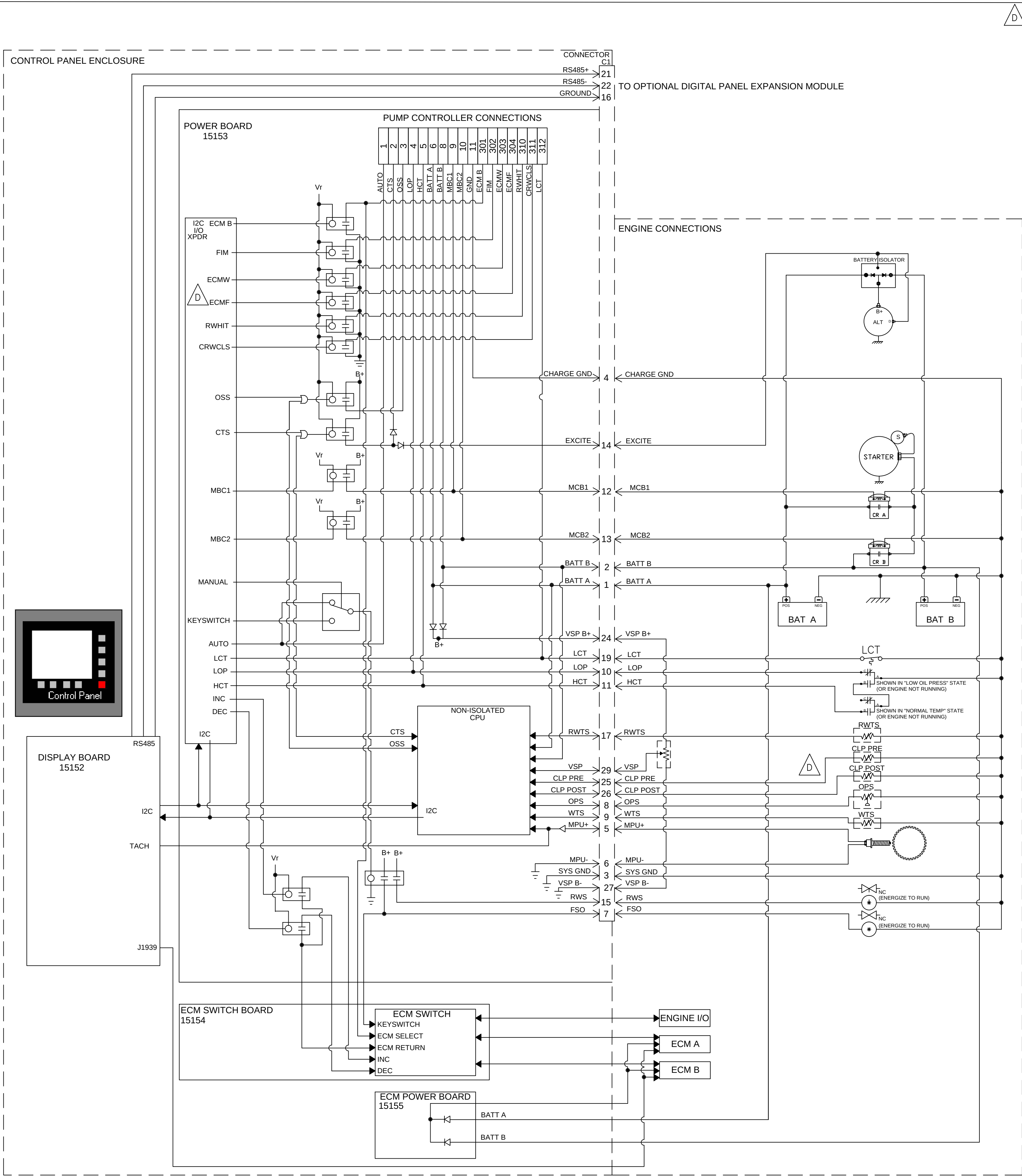
14 < GND



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DWG SCALE: N/A	PLT SCALE: N/A	APPD BY: --	DATE: --	DATE: 06_OCT_2005	DATE: --
DESCRIPTION ENGINE_SCHEMATIC					
REFERENCE: FIREPUMP					DRAWING NUMBER: 10423E_SHT3

E	ADDED SHEETS 3, 4, 5, & 6	RJS	20 MAR 07	UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES
D	SEE SHT 1 FOR REV CHANGE	RJS	19 SEPT 06	APPLY MACHINE TOLERANCES 3X1 = & 0.005 3X2 = & 0.010 3X3 = & 0.015
C	REDREW	RJS	3 JULY 06	APPLY MFG TOLERANCES 3X1 = & 0.005 3X2 = & 0.010 3X3 = & 0.015
B	CHG'D WIRING OF K2	RJS	17 DEC 05	
A	REF PAGE 1 REV NOTES	RJS	27 OCT 05	
REV	DESCRIPTION OF REVISION	BY	DATE	

After 14 December
2009



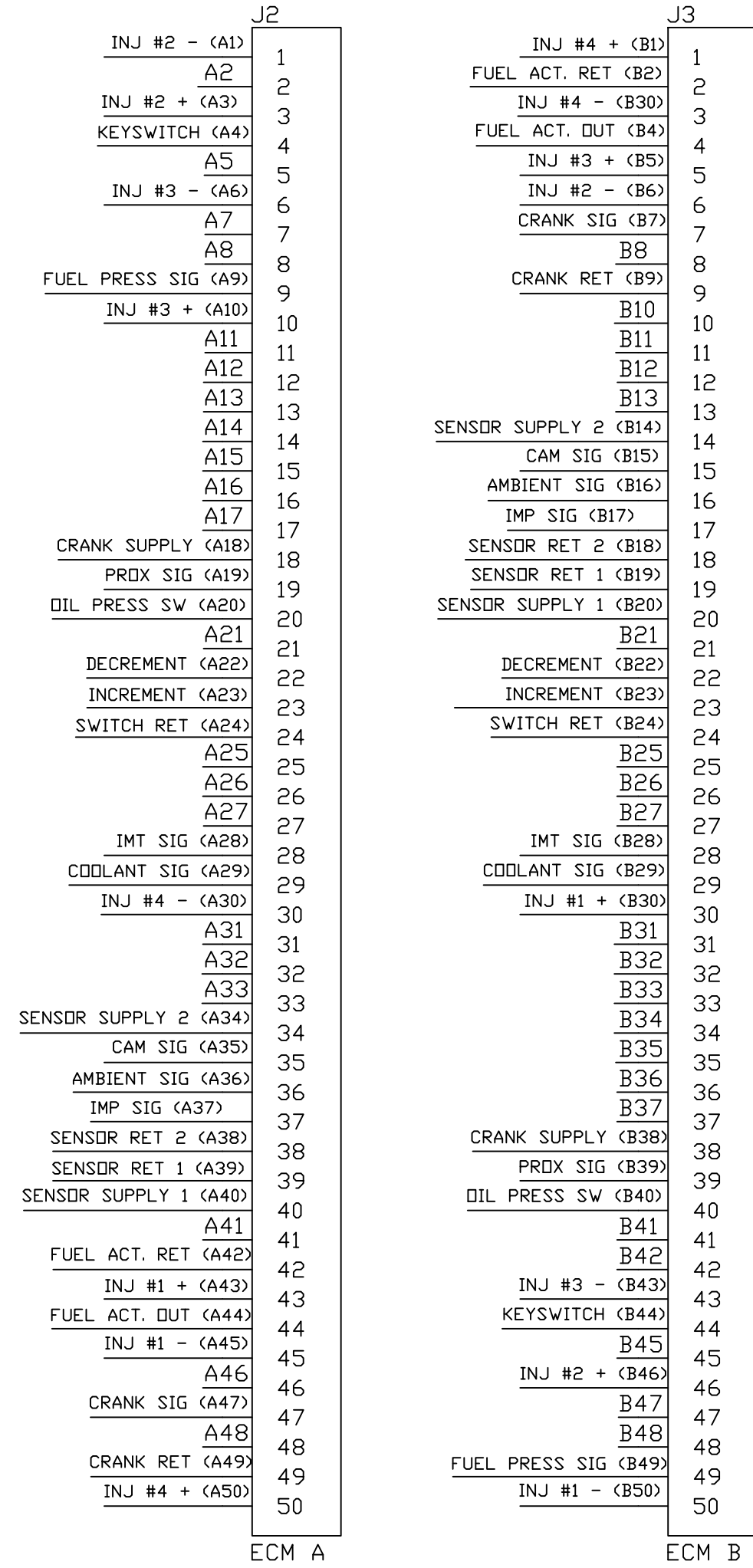
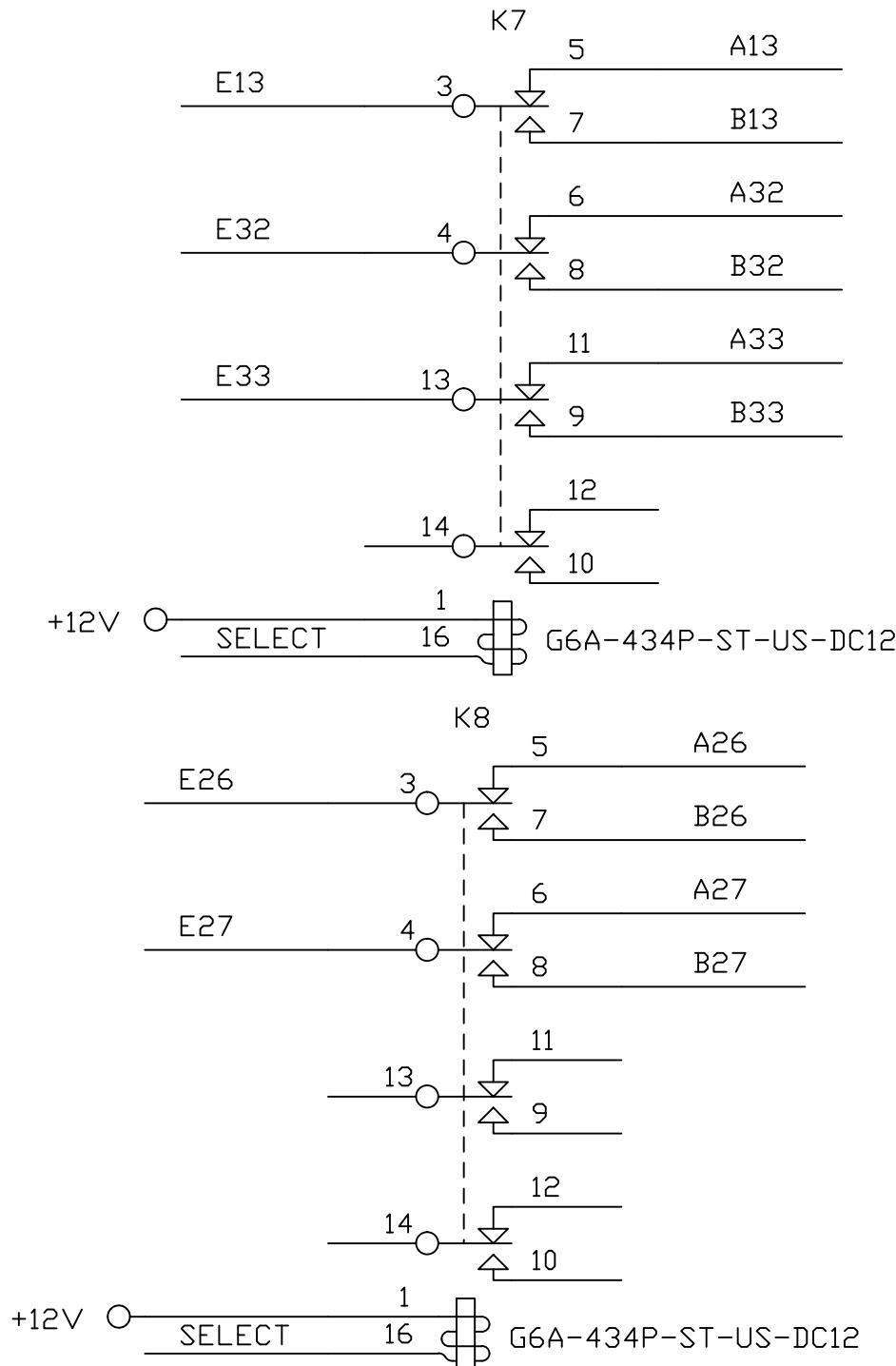
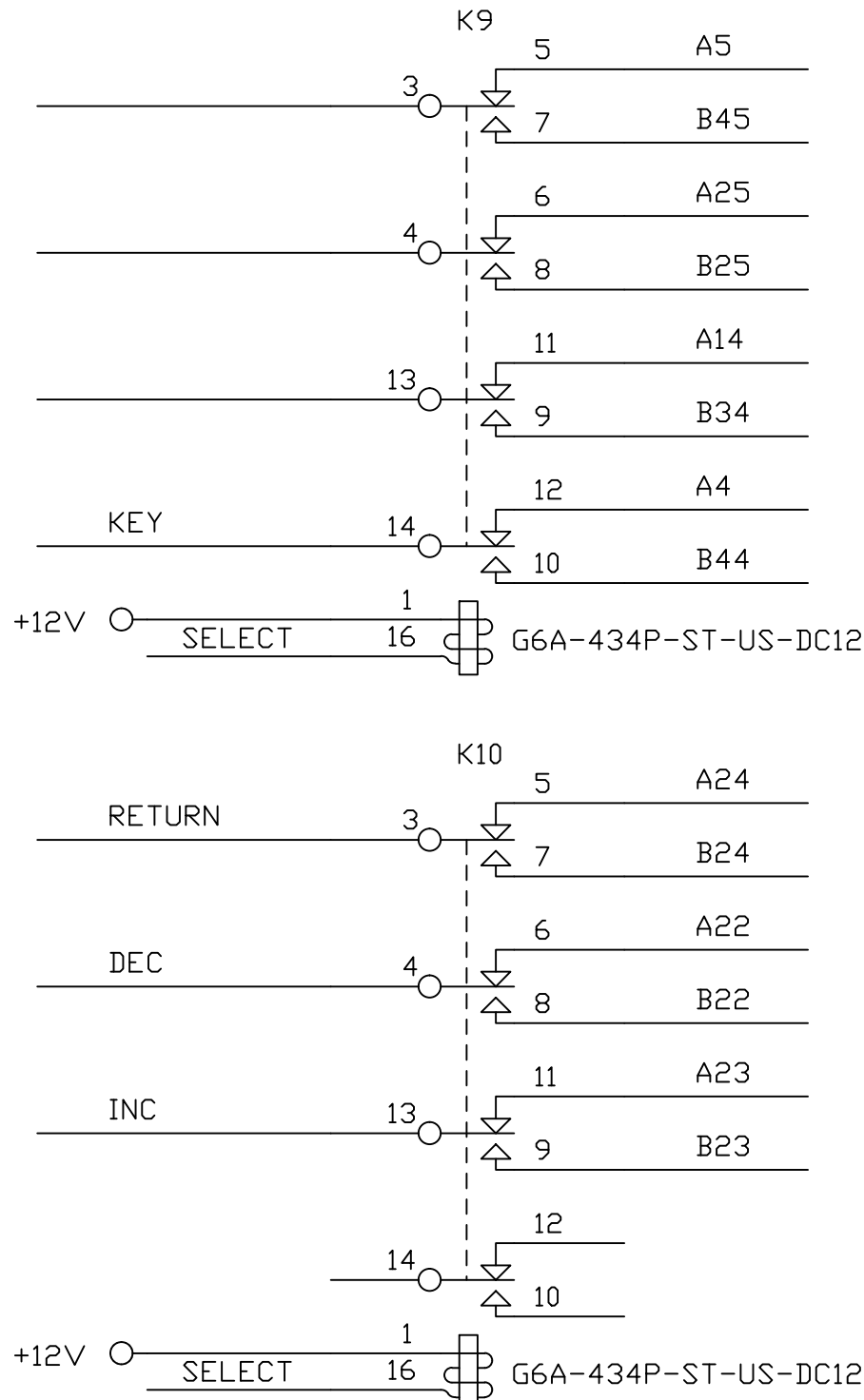
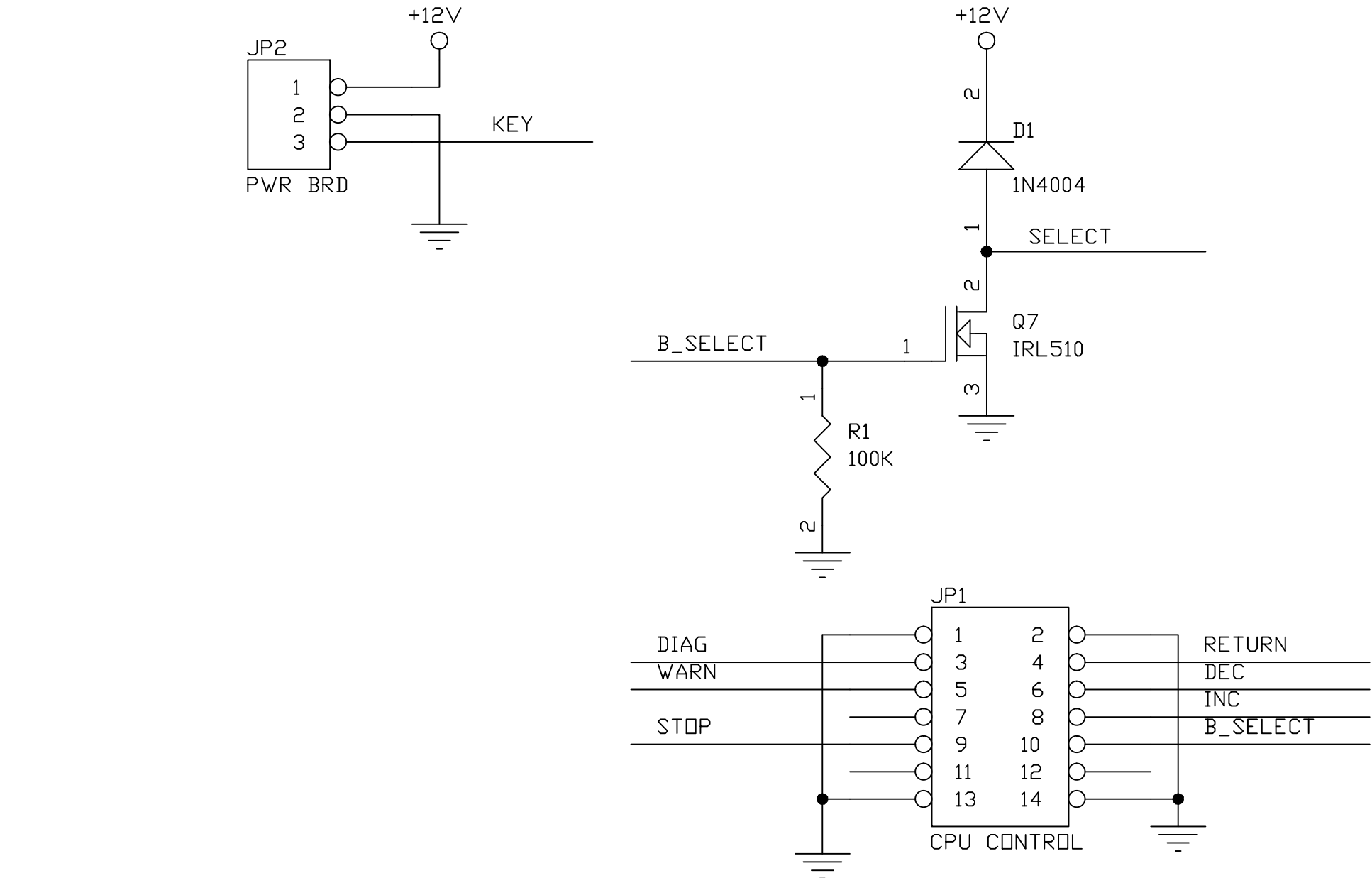
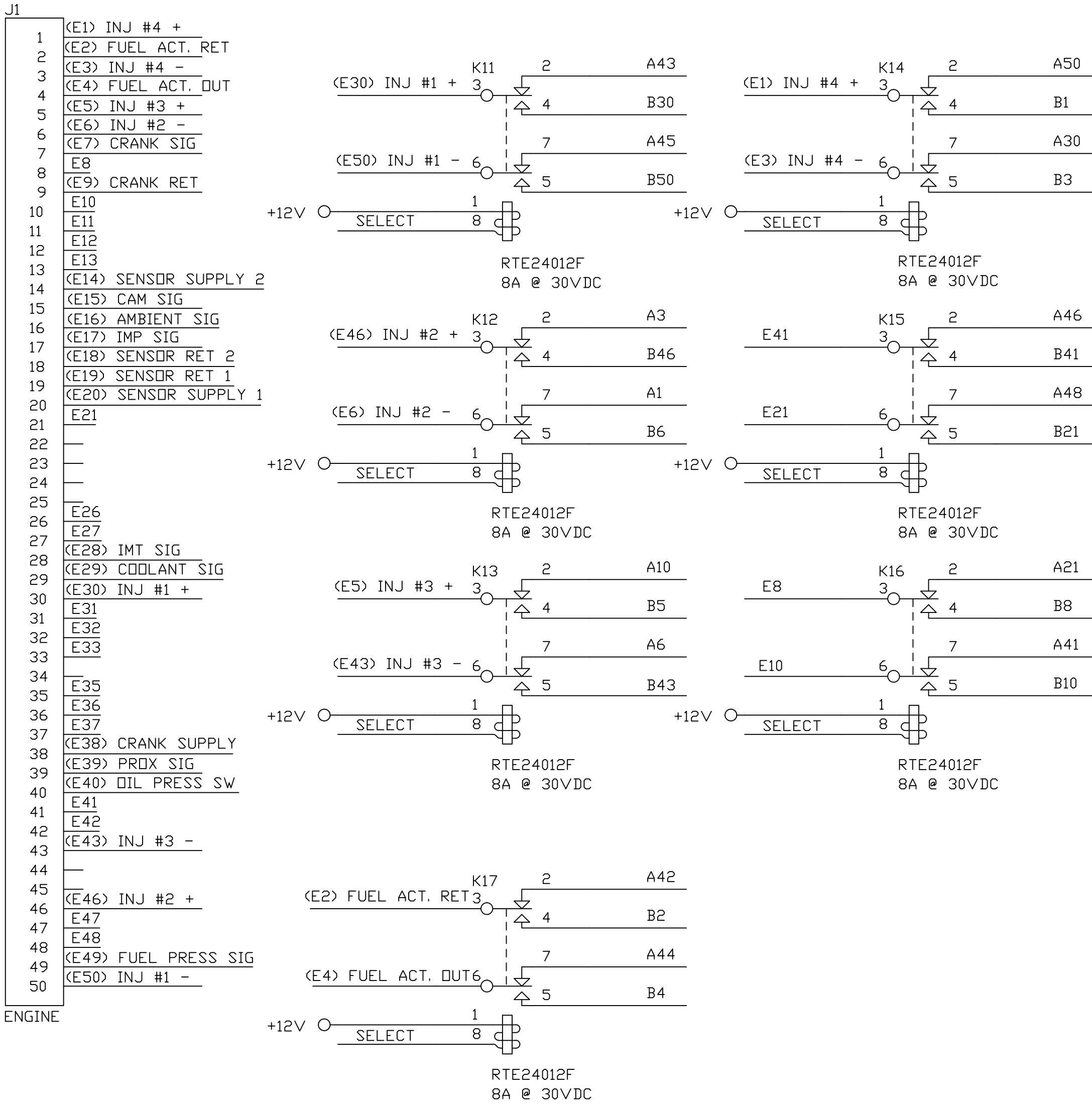
NOTES: 1) SEE SHEET 2 FOR CFP5E ECM SWITCH SCHEMATIC
2) SEE SHEET 3 FOR CFP7E ECM SWITCH SCHEMATIC
3) SEE SHEET 4 FOR CFP9E ECM SWITCH SCHEMATIC
4) SEE SHEET 5 FOR CFP11E ECM SWITCH SCHEMATIC
5) SEE SHEET 6 FOR CFP15E ECM SWITCH SCHEMATIC
6) SEE SHEET 7 FOR CFP23E ECM SWITCH SCHEMATIC

D	2014-107	ADDED COOLING LOOP SENSORS	RMJ	21FEB2014
C		ADDED LOW COOLANT TEMP SWITCH WIRING	KAK	03DEC2013
B	2011-307	MODIFIED SHEET 7, CFP23E	S DUBICK	12-JAN-12
A	2011-189	ADDED RS485 WIRES.	PBS	15JUN2011
REV	ENF	DESCRIPTION OF REVISION	BY	DATE

UNLESS OTHERWISE SPECIFIED ALL DIMENSION TOLERANCES ARE			
ANGULAR DIMENSIONS ± °	IMPERIAL UNITS	METRIC UNITS	
THIRD ANGLE PROJECTION	1/16" = 1.5748 mm	1/32" = 0.7620 mm	
	1/64" = 0.3906 mm	1/128" = 0.3906 mm	

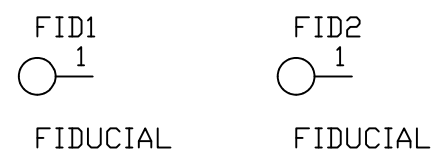
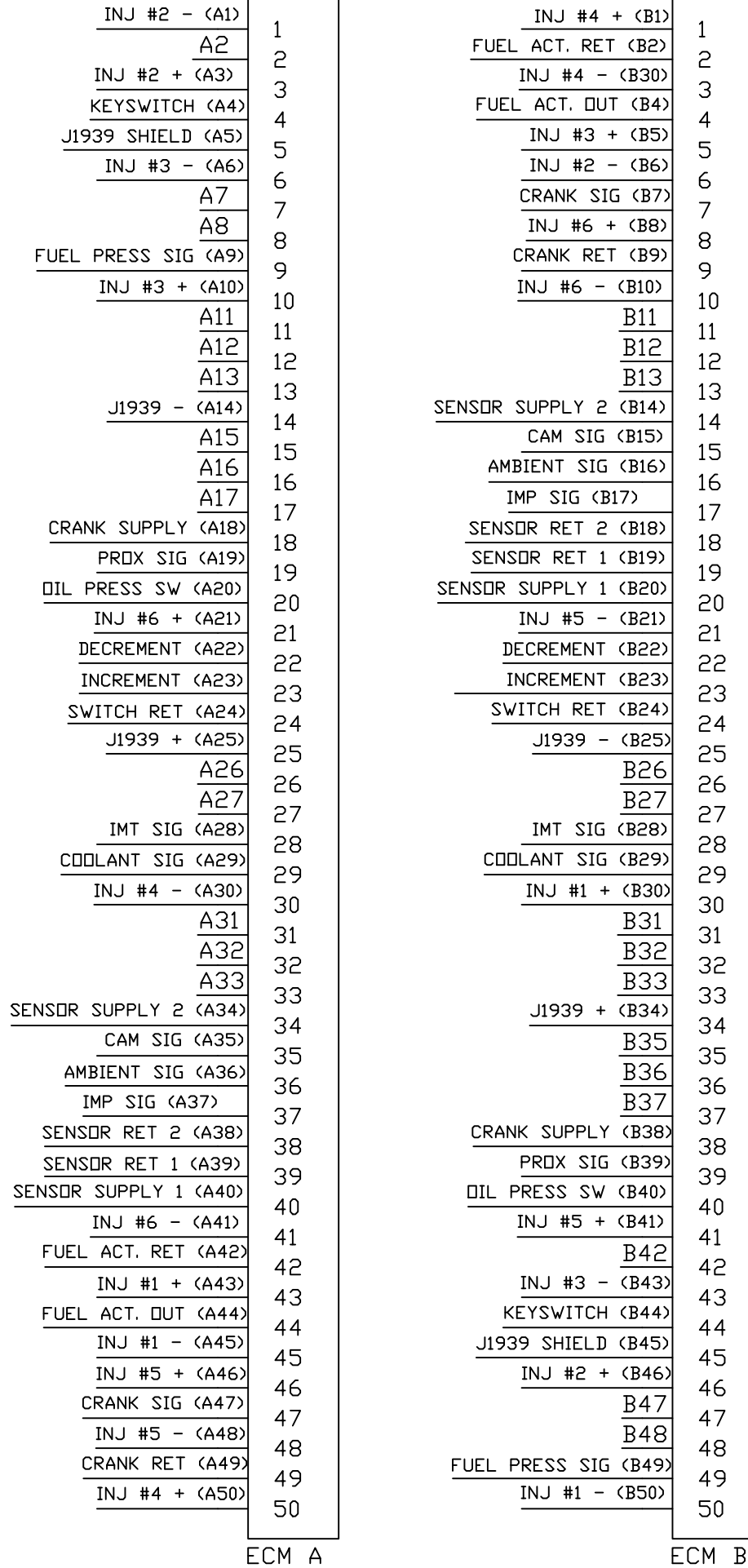
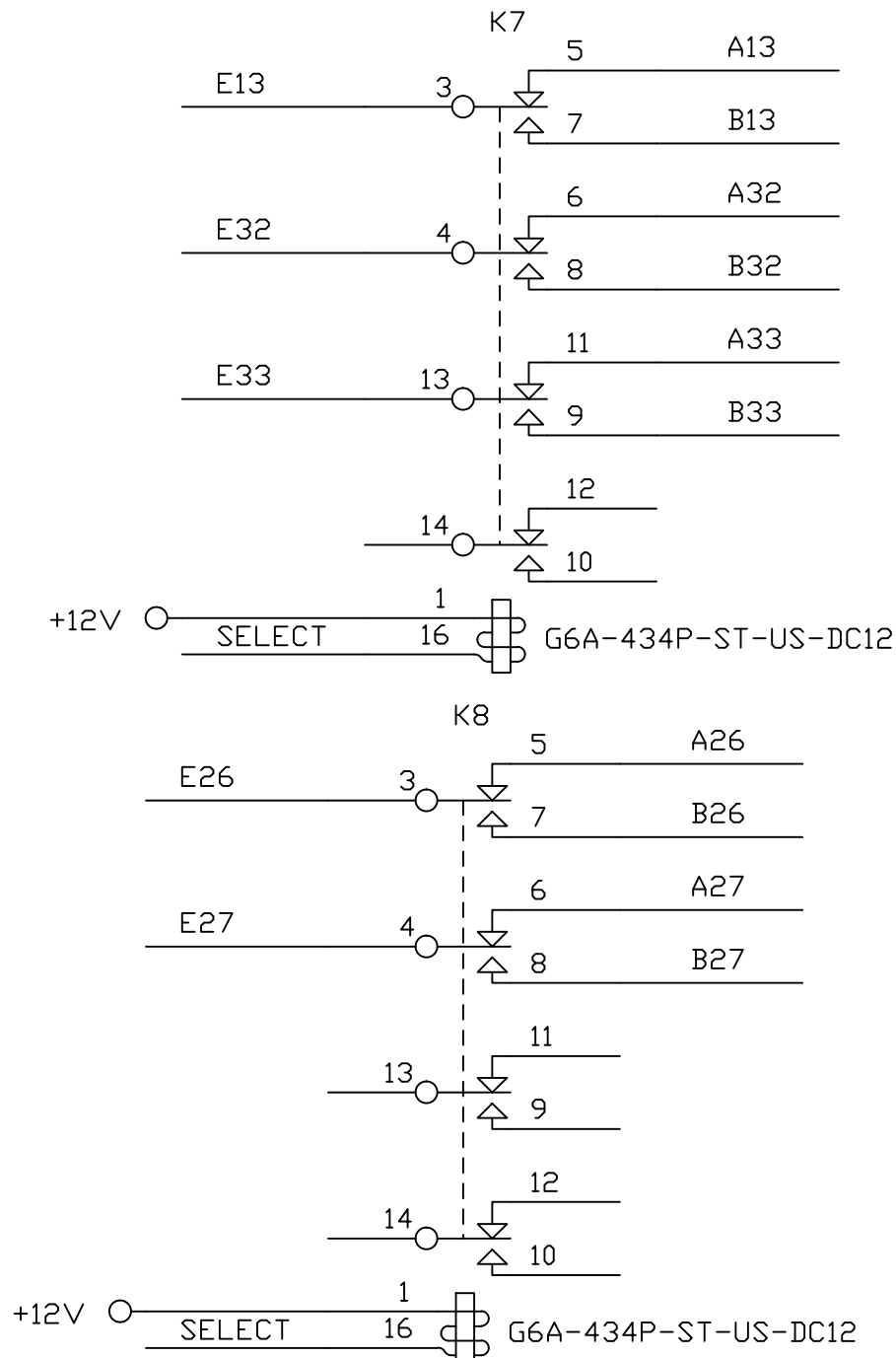
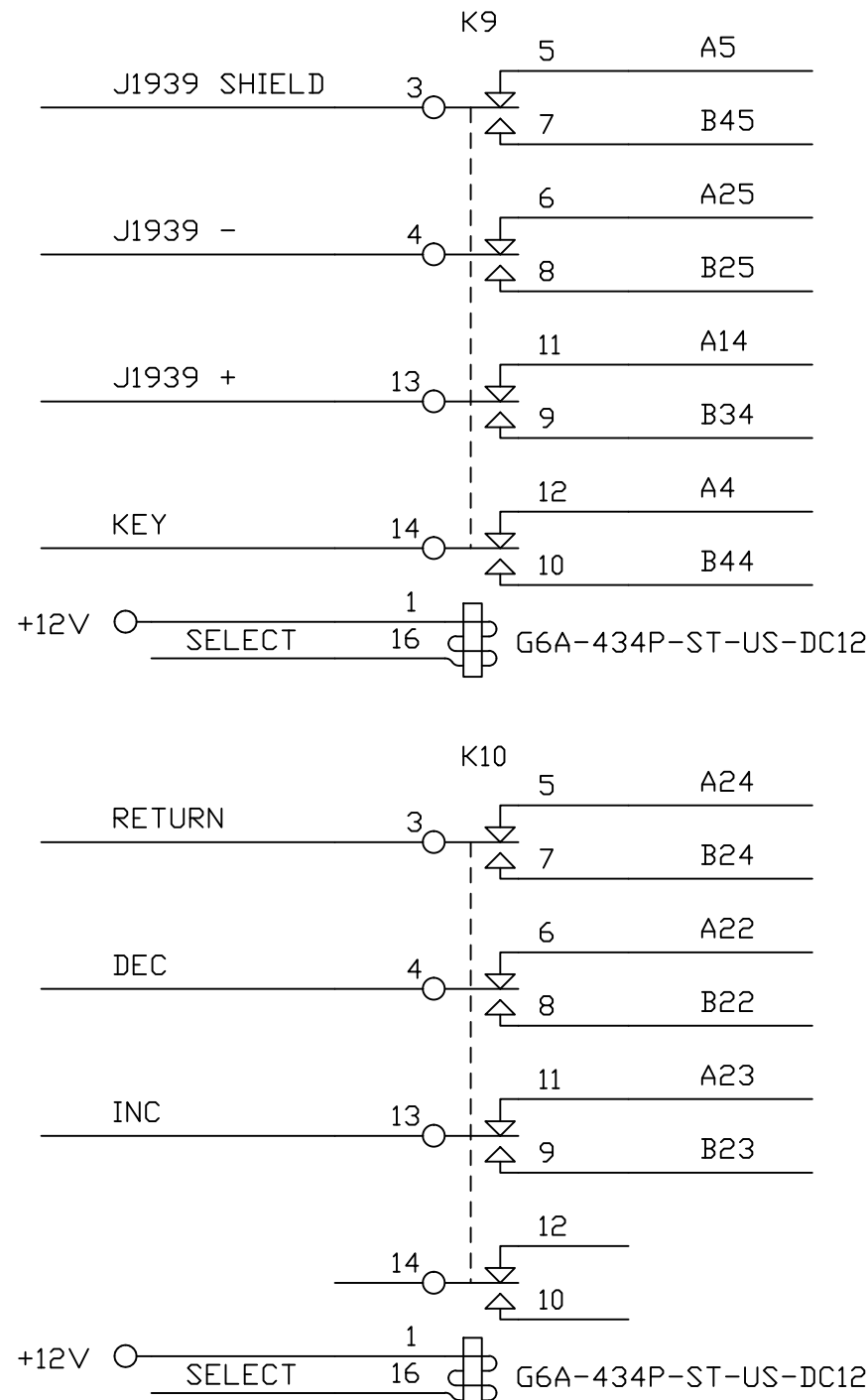
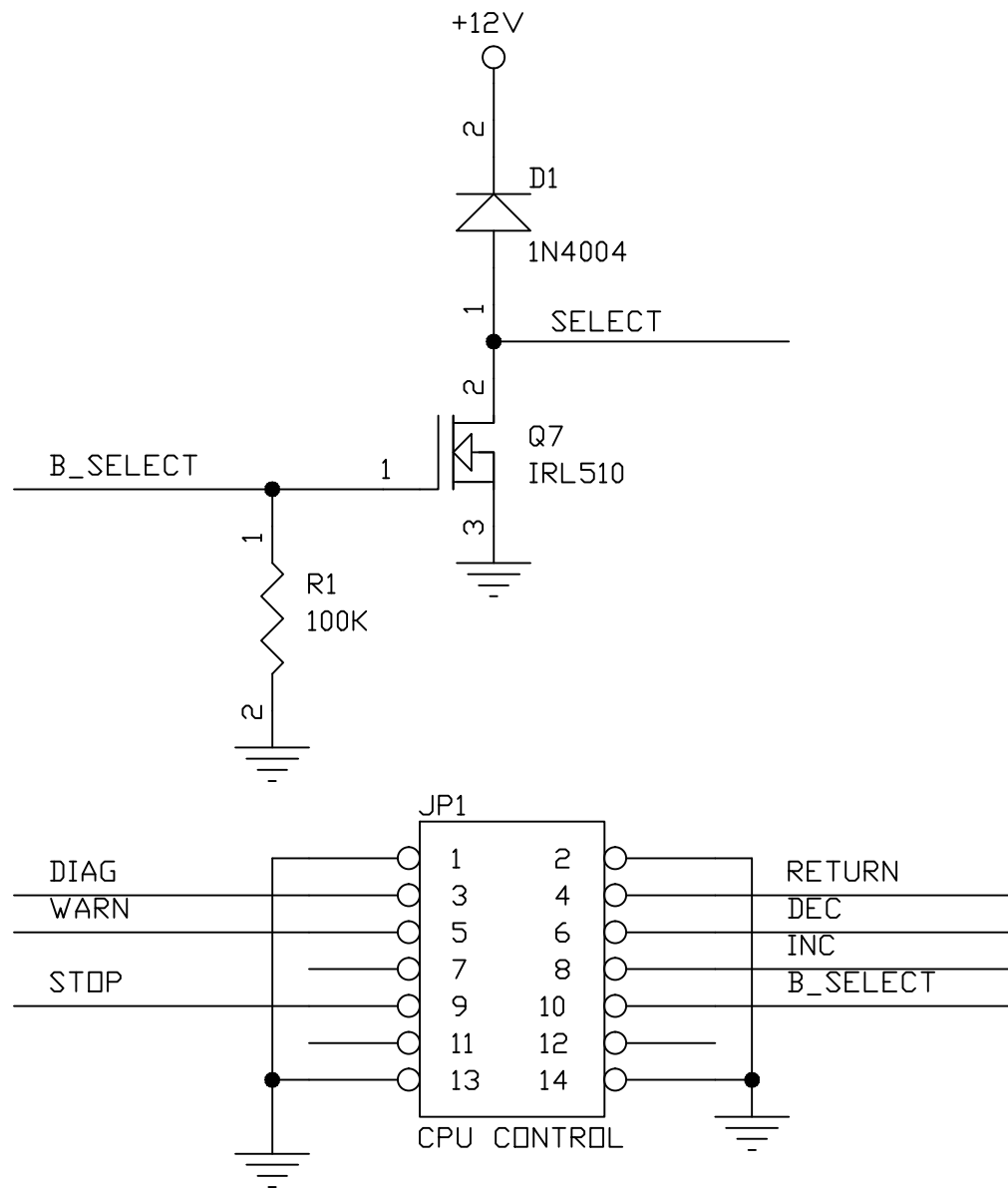
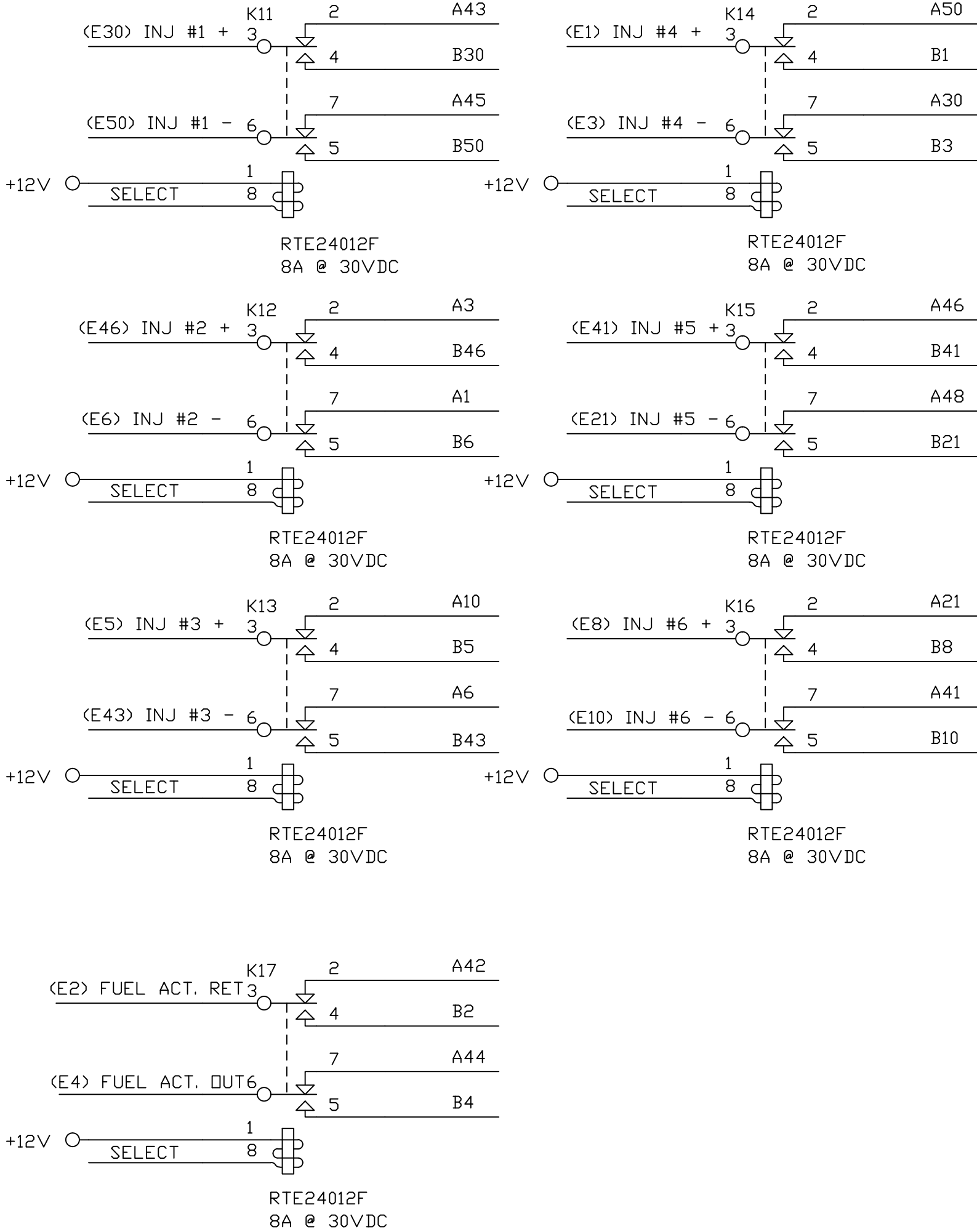
SCHEMATIC, FIRE PUMP DRIVERS	
CFP MODELS: 5E, 7E, 9E, 11E, 15E, 23E	
DWG UNITS: INCH/LB/S	DATE: 14 DEC 2009
SCALE:	REF DRWG:
EST WEIGHT:	

CUMMINS FIRE POWER LLC CORPORATE OFFICE 1500 BIERKLE ROAD WHITE BEAR LAKE, MN WWW.CUMMINSFIREPOWER.COM	
CUSTOM DESIGN AND UPFIT CENTER 875 LAWRENCE DRIVE DEPERE, WISCONSIN	
DRAWN BY: KAK	DATE: 14 DEC 2009
AUTO CAD	REF DRWG:
SHEET 10F7	DRAWING NO: 16260



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UNLESS OTHERWISE SPECIFIED ALL DIMENSION TOLERANCES ARE				SCHEMATIC, ECM SWITCH CFP5E FIRE PUMP DRIVER			
ANGULAR DIMENSIONS ± 1°		IMPERIAL UNITS	METRIC UNITS	DWG UNITS: INCH/LB/S	DRAWN BY: KAK		DATE: 14 DEC 2009
THIRD ANGLE PROJECTION		MACHINE TOLERANCES XX = ± 0.010 XXX = ± 0.005	MACHINE TOLERANCES X = ± 0.1 XX = ± 0.2	SCALE:	AUTO CAD		REF DRWG:
EST WEIGHT:		FAB TOLERANCES XX = ± 0.010 XXX = ± 0.005	FAB TOLERANCES X = ± 0.1 XX = ± 0.2	SHEET 20F7		DRAWING NO: 16260	

D	2014-107	SEE SHEET 1 FOR LATEST REVISION.	RMJ	24FEB2014
C		SEE SHEET 1 FOR LATEST REVISION.	KAK	03DEC2013
REV	ENF	DESCRIPTION OF REVISION	BY	DATE



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CUSTOM DESIGN AND
UPFIT CENTER
875 LAWRENCE DRIVE
DEPERE, WISCONSIN

SCHEMATIC, ECM SWITCH
CFP7E FIRE PUMP DRIVER

UNLESS OTHERWISE SPECIFIED ALL DIMENSION TOLERANCES ARE

ANGULAR DIMENSIONS ± .

IMPERIAL UNITS	METRIC UNITS
----------------	--------------

THIRD ANGLE PROJECTION

MACHINE TOLERANCES $Y_1 = \pm 0.010$	MACHINE TOLERANCES $Y_2 = \pm 0.4$
---	---------------------------------------

.XXX = ± 0.005	.XX = ± 0.2
FORM TON FRANCES	FORM TON FRANCES

DWG UNITS:
INCH/LB/S

DRAWN BY: KAK

AUTO CAD

DATE: 14 DEC 2009

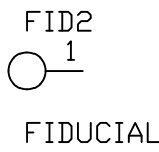
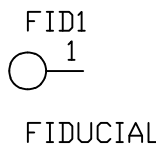
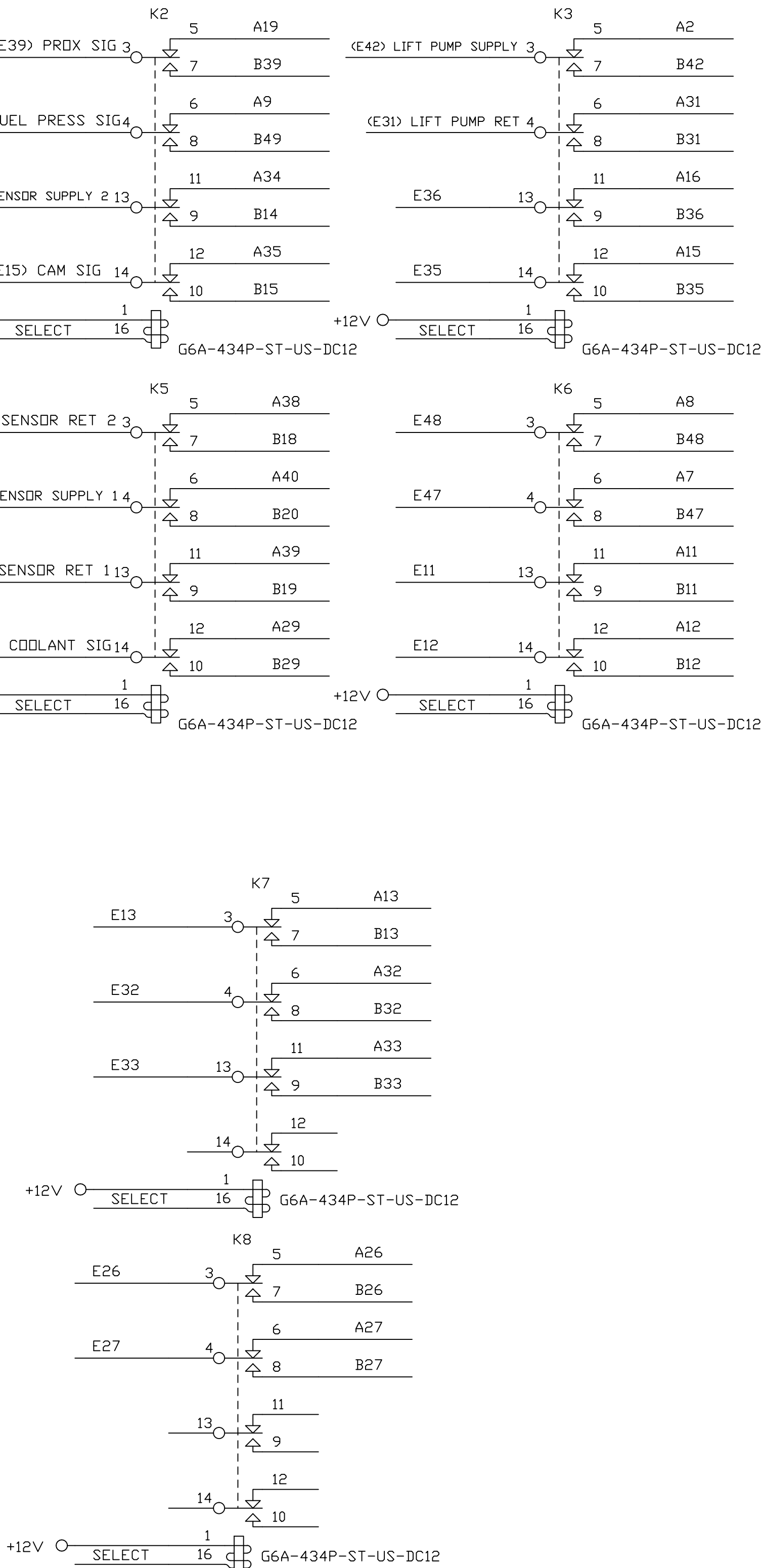
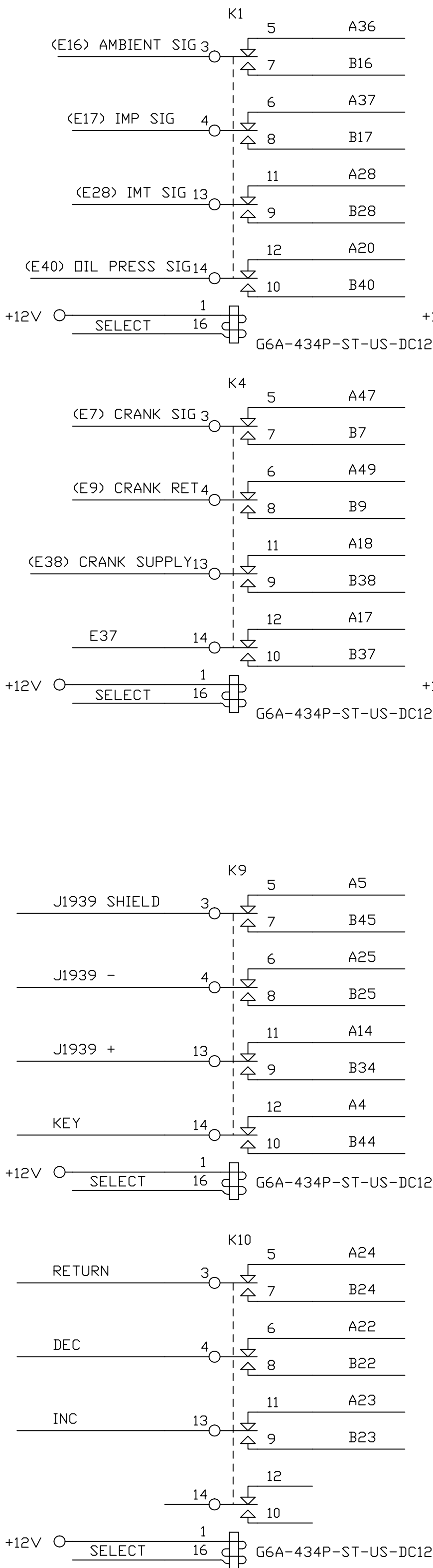
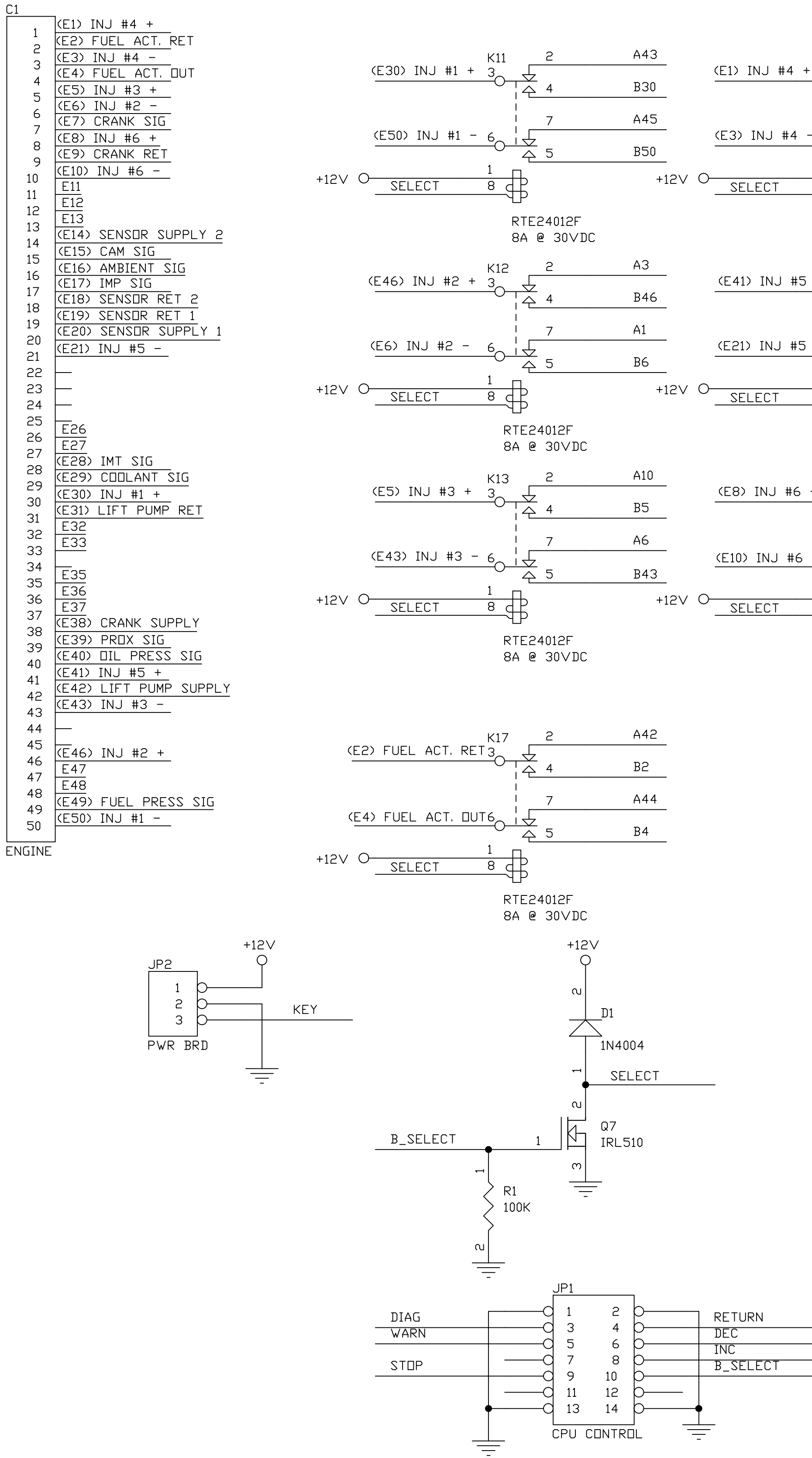
SCALE:

EST WEIGHT:

SHEET 30F7

DRAWING NO: 16260

D	2014-107	SEE SHEET 1 FOR LATEST REVISION.	RMJ	24FEB201
C		SEE SHEET 1 FOR LATEST REVISION.	KAK	03DEC201
REV	ENF	DESCRIPTION OF REVISION	BY	DATE



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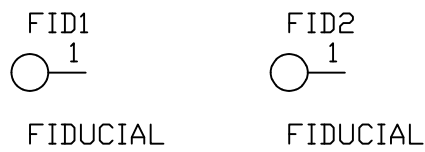
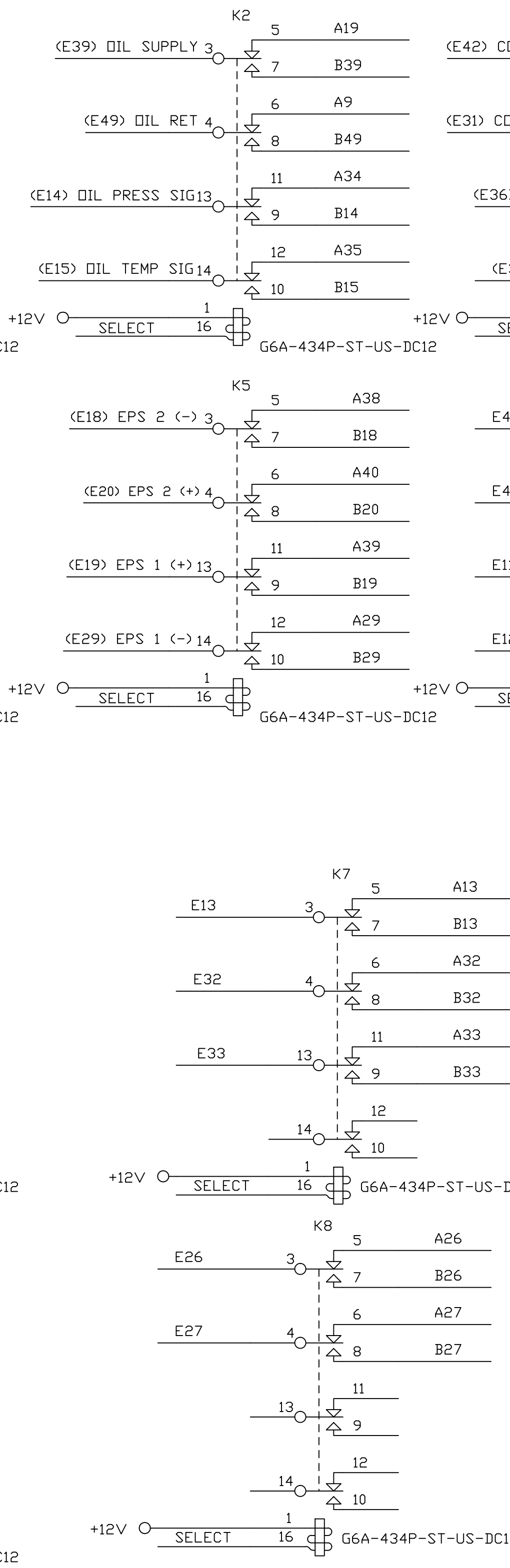
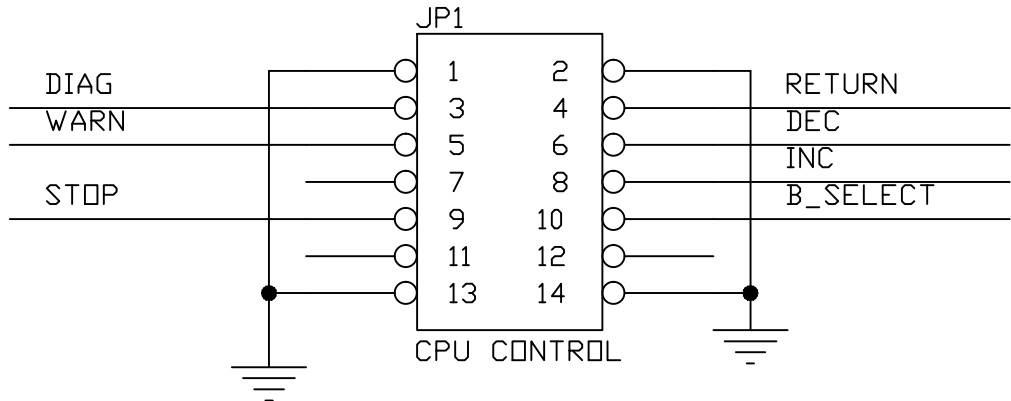
CUSTOM DESIGN AND
UPFIT CENTER
875 LAWRENCE DRIVE
DEPERE, WISCONSIN

SCHEMATIC, ECM SWITCH CFP9E FIRE PUMP DRIVER

DWG UNITS: INCH/LB/S	DRAWN BY: KAK AUTO CAD	DATE: 14 DEC 2009 REF DRWG:
SCALE: EST WEIGHT:	SHEET 40F7	DRAWING NO: 16260

D	2014-107	SEE SHEET 1 FOR LATEST REVISION.	RMJ	24FEB2014
C		SEE SHEET 1 FOR LATEST REVISION.	KAK	03DEC2013
REV	ENF	DESCRIPTION OF REVISION	BY	DATE

UNLESS OTHERWISE SPECIFIED ALL DIMENSION TOLERANCES ARE	ANGULAR DIMENSIONS ± 1°	IMPERIAL UNITS	METRIC UNITS
THIRD ANGLE PROJECTION		Welding Tolerances XX ± 0.005 XX ± 0.006	Welding Tolerances XX ± 0.4 XX ± 0.5
		Form Tolerances XX ± 0.010 XX ± 0.015	Form Tolerances XX ± 0.13 XX ± 0.18
		Fit Tolerances XX ± 0.005 XX ± 0.010	Fit Tolerances XX ± 0.13 XX ± 0.18

DRAWING NO: 16260

