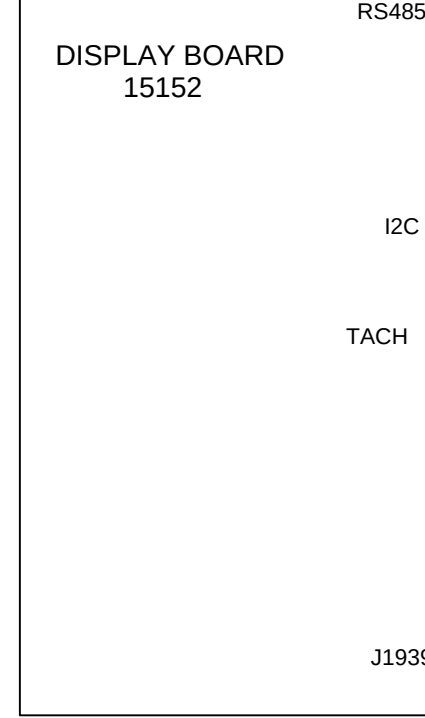
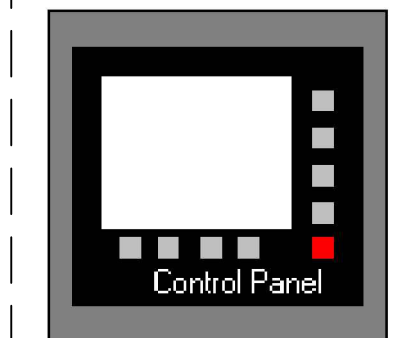
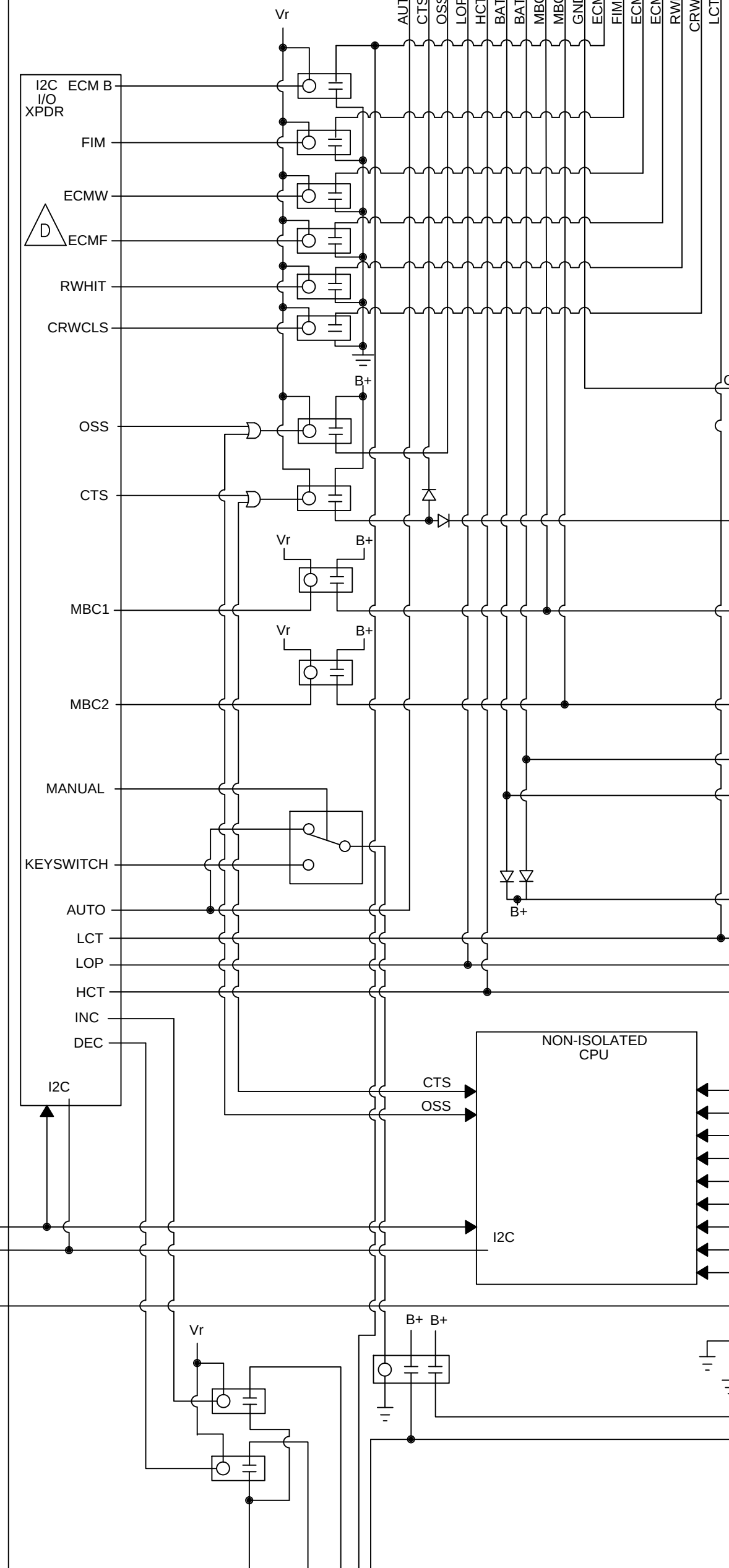


CONTROL PANEL ENCLOSURE

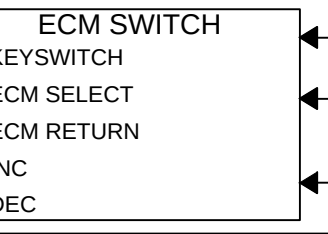


POWER BOARD  
15153

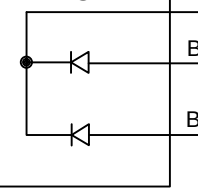
PUMP CONTROLLER CONNECTIONS



ECM SWITCH BOARD  
15154

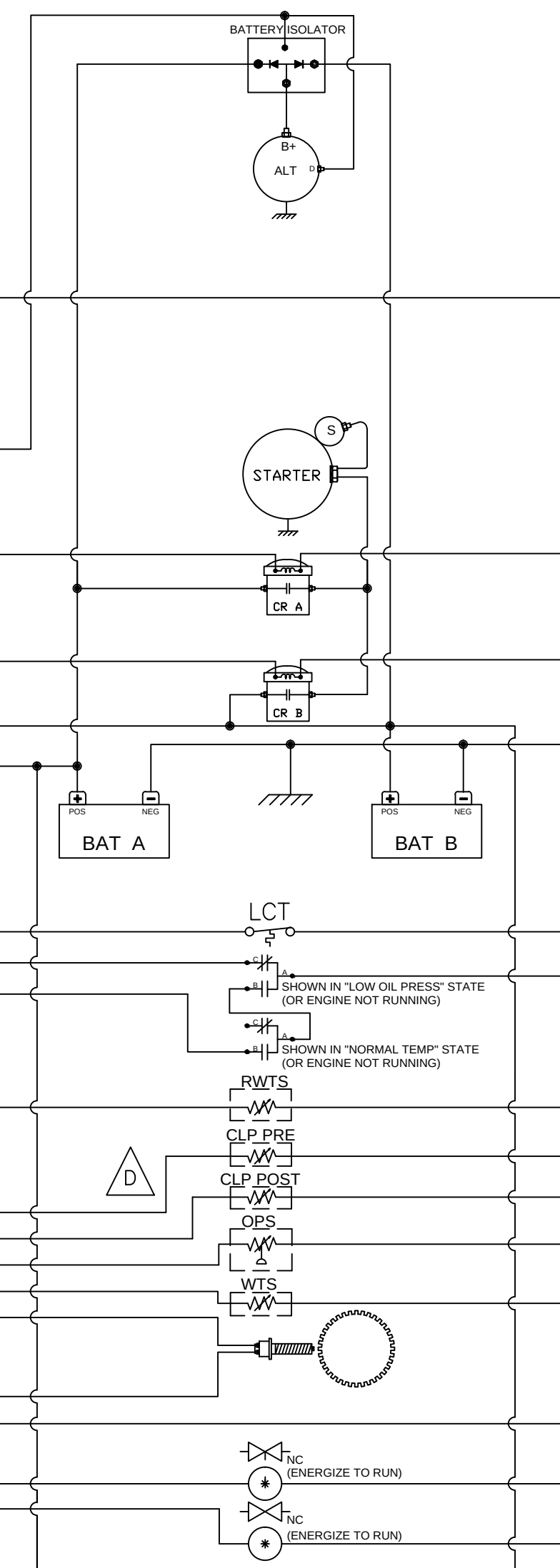


ECM POWER BOARD  
15155



TO OPTIONAL DIGITAL PANEL EXPANSION MODULE

ENGINE CONNECTIONS



LEGEND:  
OSS = OVER SPEED SWITCH  
CTS = CRANK TERMINATION SWITCH  
MBC1 = MAIN BATTERY CONTACTOR 1  
MBC2 = MAIN BATTERY CONTACTOR 2  
LCT = LOW COOLANT TEMPERATURE  
HCT = HIGH COOLANT TEMPERATURE  
LOP = LOW OIL PRESSURE  
FSO = FUEL SHUT OFF  
RWS = RAW WATER SOLENOID  
VSP = VARIABLE SPEED PRESURE  
DOP PRE = DIFFERENTIAL OIL PRESSURE PRE  
DOP POST = DIFFERENTIAL OIL PRESSURE POST  
OPS = OIL PRESSURE SENDER  
WTS = WATER TEMPERATURE SENDER  
MPU = MAGNETIC PICK-UP  
RWHT = RAW WATER HIGH INLET TEMP  
CRWCLS = CLOGGED RAW WATER COOLING LOOP  
STRAINER  
CLP PRE = COOLING LOOP PRESSURE PRE  
STRAINER  
CLP POST = COOLING LOOP PRESSURE POST  
STRAINER  
RWTS = RAW WATER TEMPERATURE SENDER  
ECMW = ELECTRONIC CONTROL MODULE WARNING  
ECMF = ELECTRONIC CONTROL MODULE FAILURE

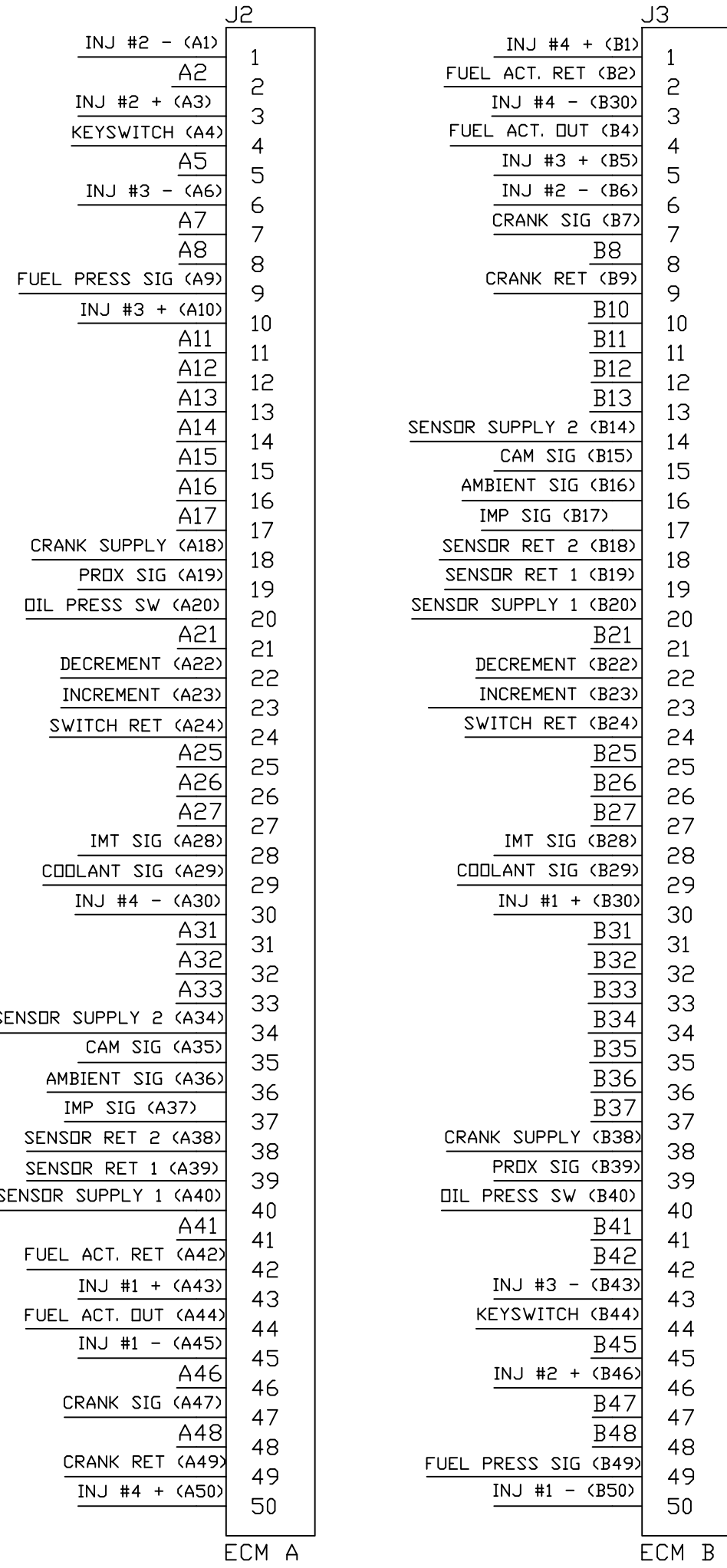
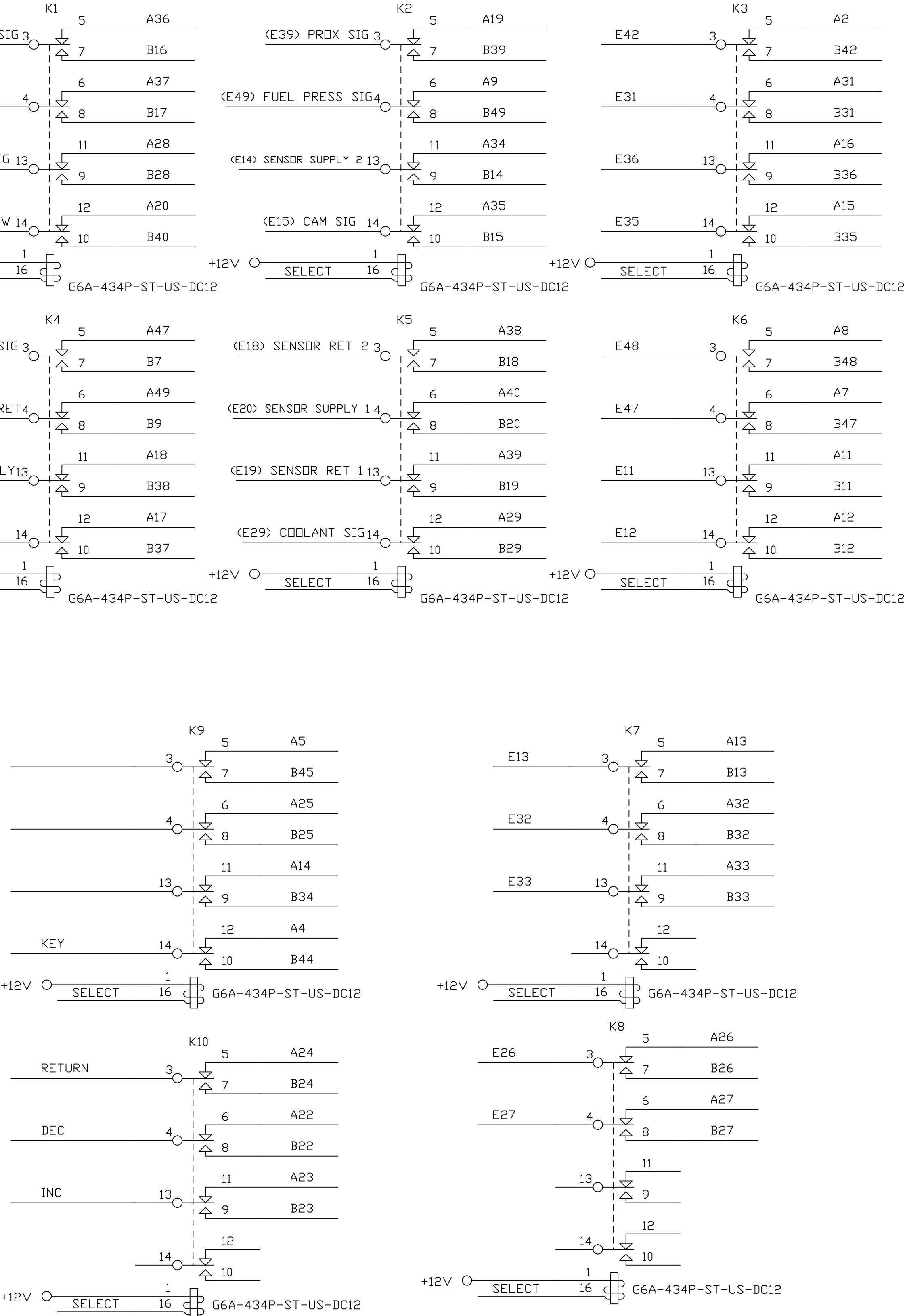
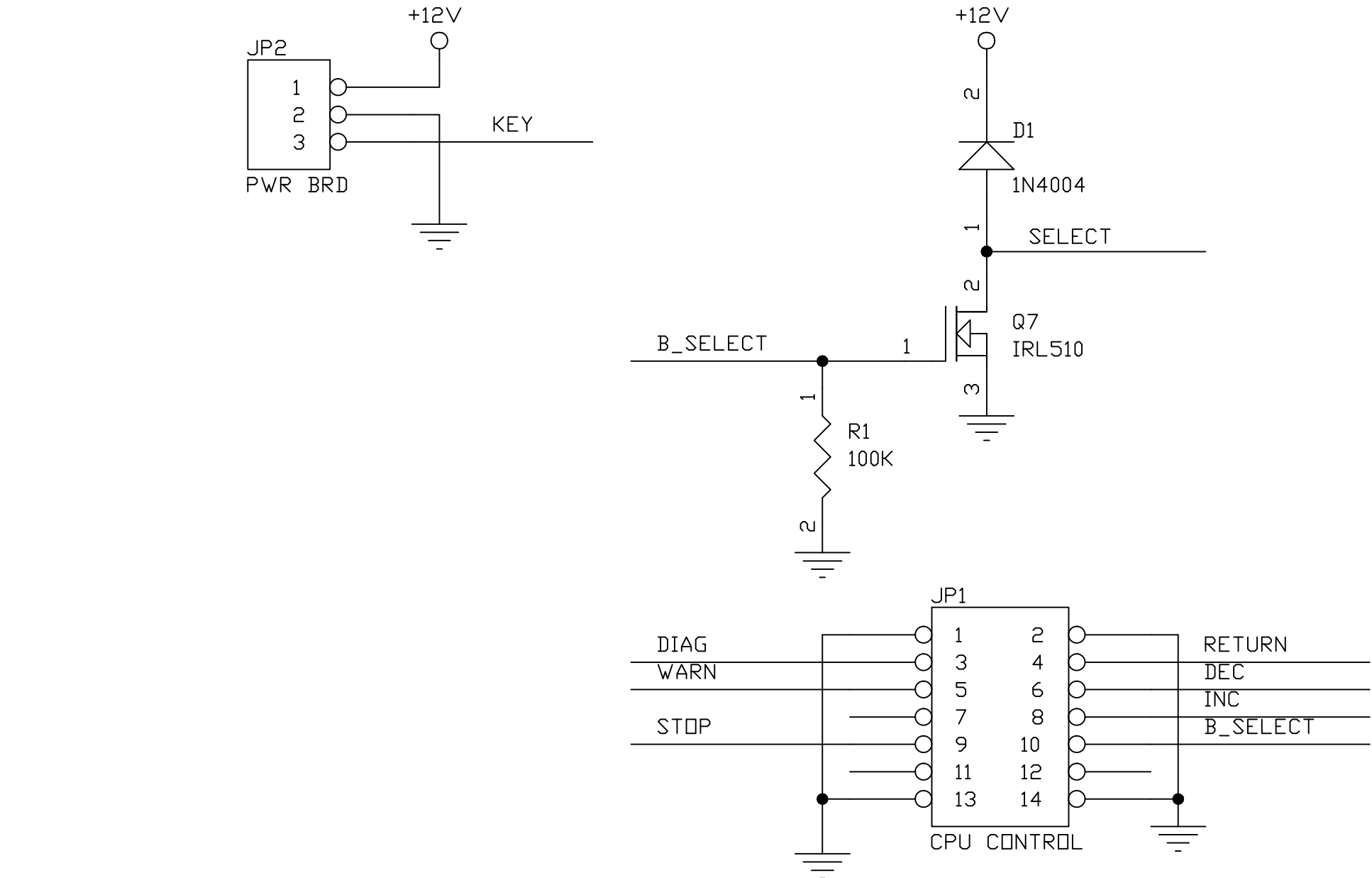
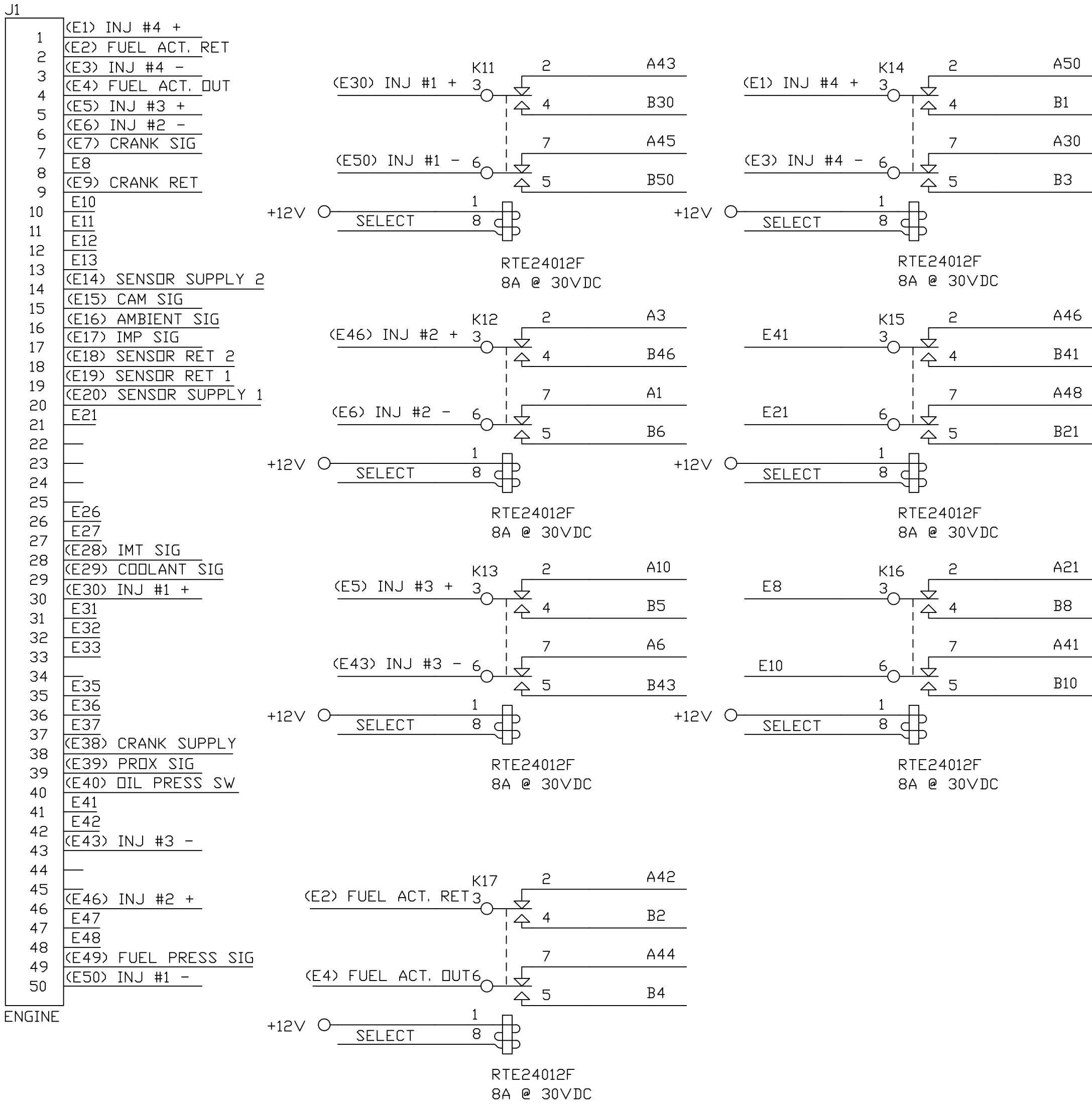
NOTES: 1) SEE SHEET 2 FOR CFP5E ECM SWITCH SCHEMATIC  
2) SEE SHEET 3 FOR CFP7E ECM SWITCH SCHEMATIC  
3) SEE SHEET 4 FOR CFP9E ECM SWITCH SCHEMATIC  
4) SEE SHEET 5 FOR CFP11E ECM SWITCH SCHEMATIC  
5) SEE SHEET 6 FOR CFP15E ECM SWITCH SCHEMATIC  
6) SEE SHEET 7 FOR CFP23E ECM SWITCH SCHEMATIC

| 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      |

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|                                                                       |                                                                                                                    |                                                                              |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Fire Power</b>                                                     | CUMMINS FIRE POWER LLC<br>CORPORATE OFFICE<br>1500 BIERKLE ROAD<br>WHITE BEAR LAKE, MN<br>WWW.CUMMINSFIREPOWER.COM | CUSTOM DESIGN AND<br>UPFIT CENTER<br>875 LAWRENCE DRIVE<br>DEPERE, WISCONSIN |
| SCHEMATIC, FIRE PUMP DRIVERS<br>CFP MODELS: 5E, 7E, 9E, 11E, 15E, 23E |                                                                                                                    |                                                                              |
| DWG UNITS:<br>INCH/LB/S                                               | DRAWN BY: KAK                                                                                                      | DATE: 14 DEC 2009                                                            |
| SCALE:                                                                | REF DRWG:                                                                                                          |                                                                              |
| EST WEIGHT:                                                           | SHEET 10F7                                                                                                         | DRAWING NO: 16260                                                            |

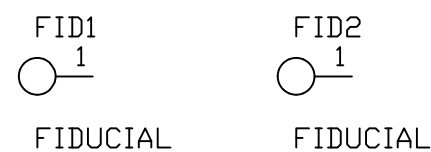
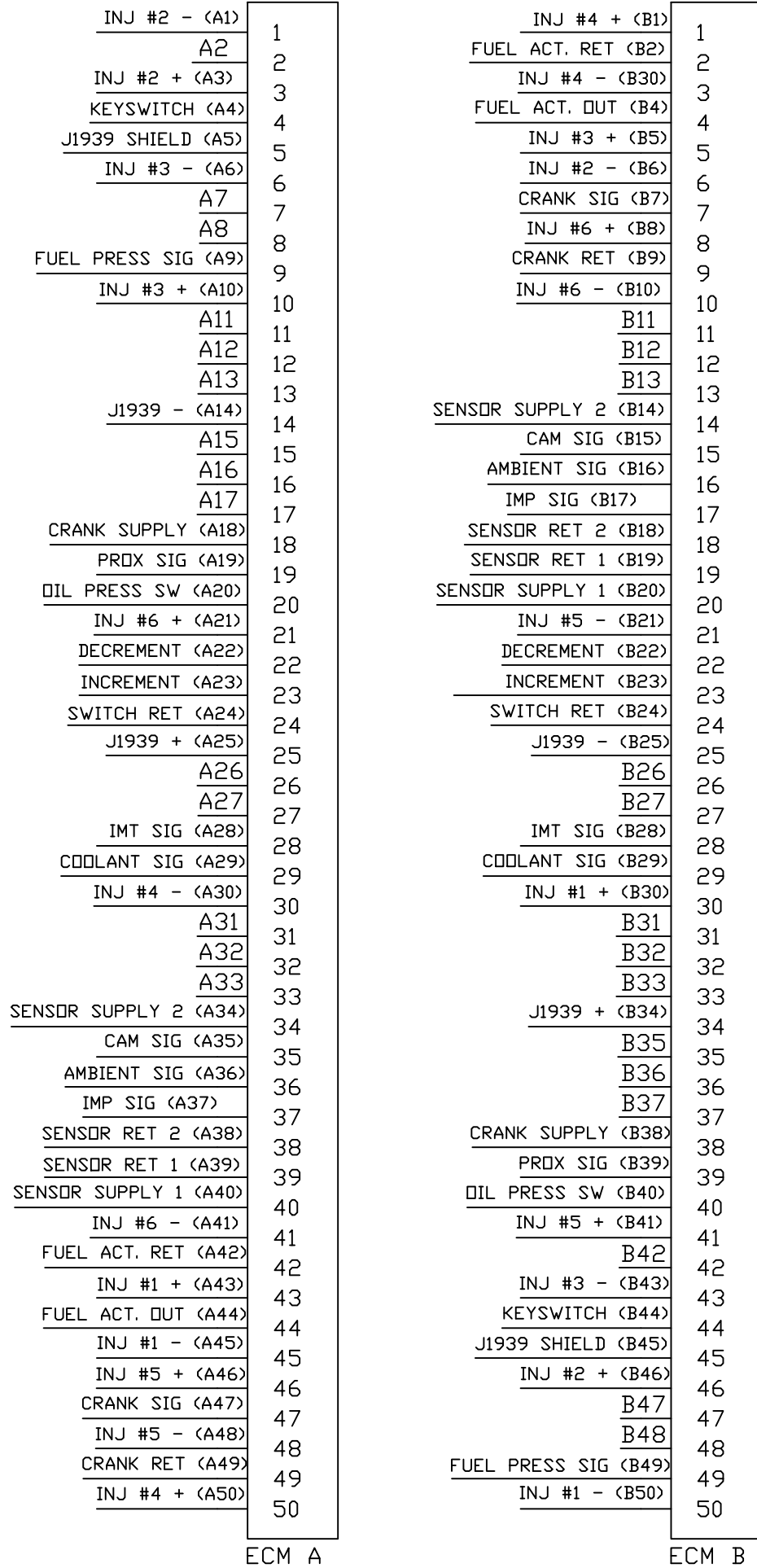
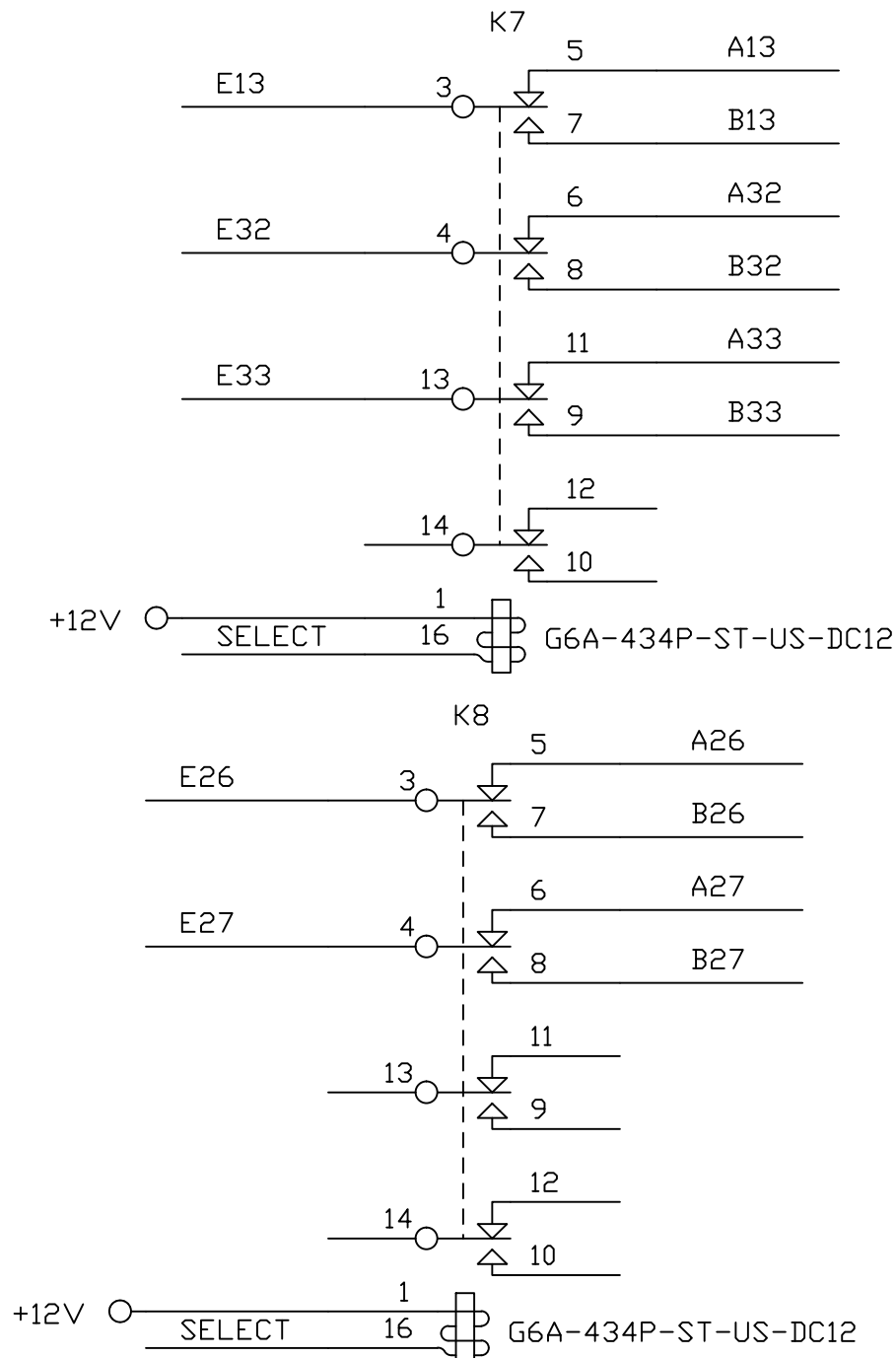
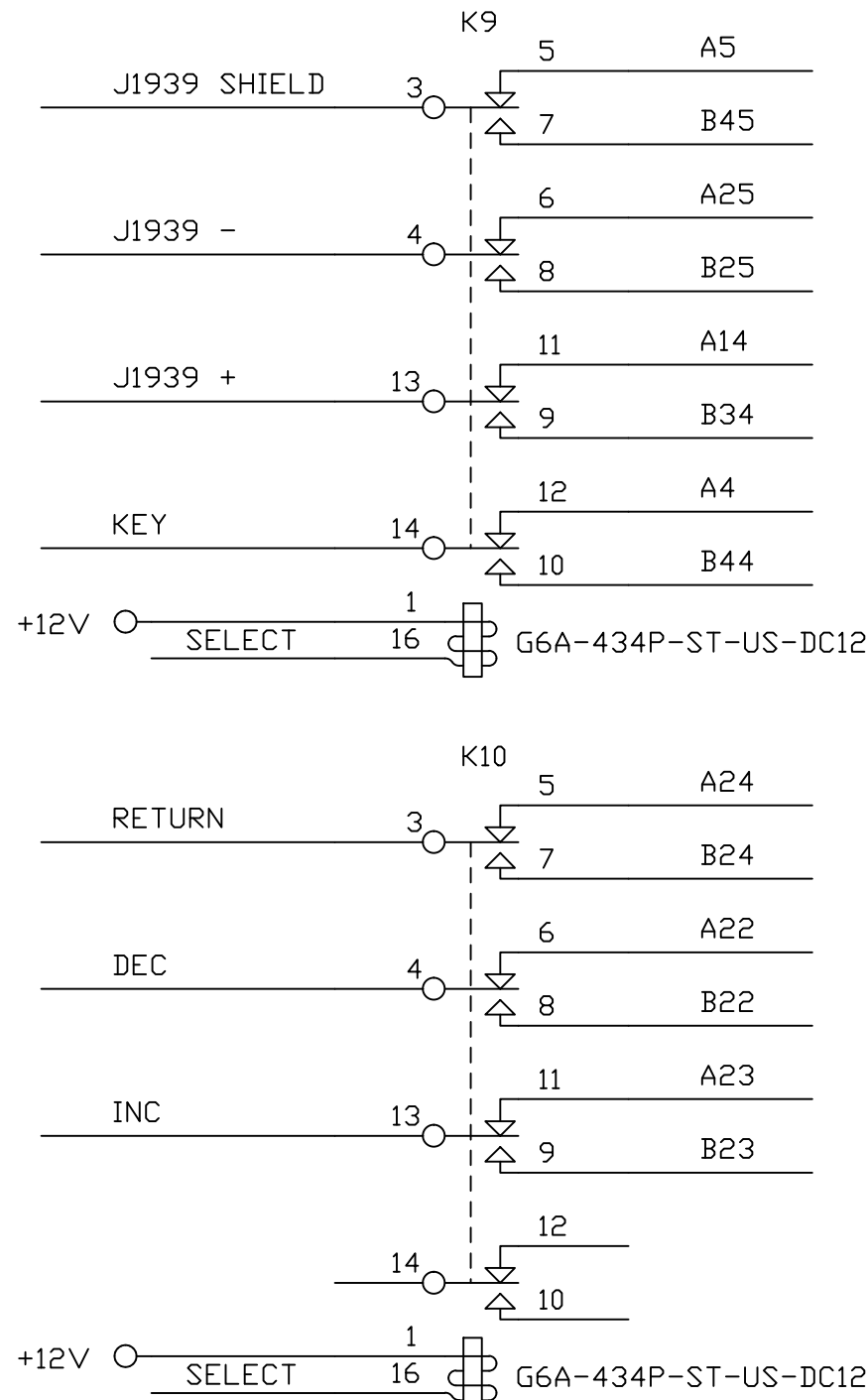
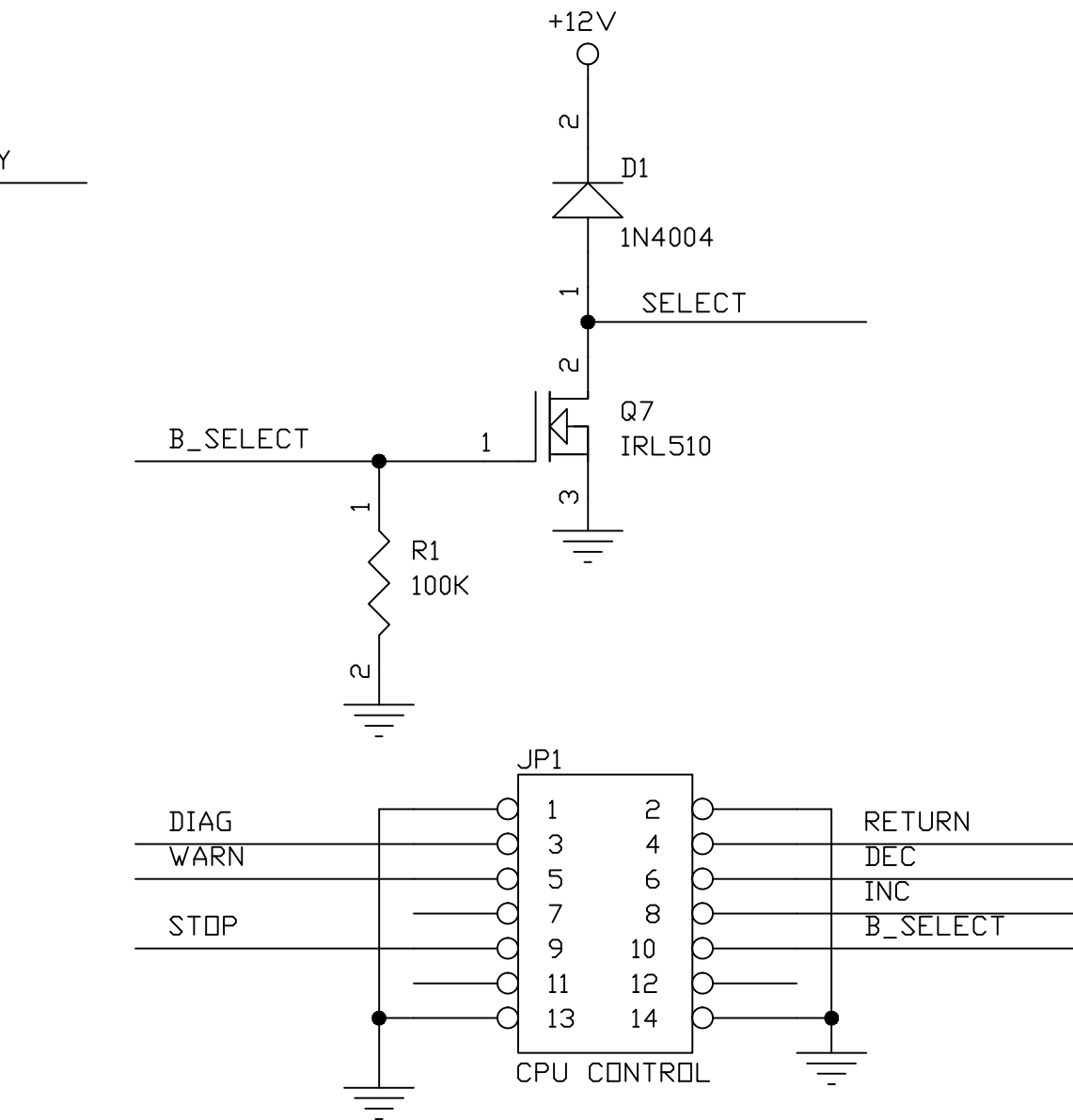
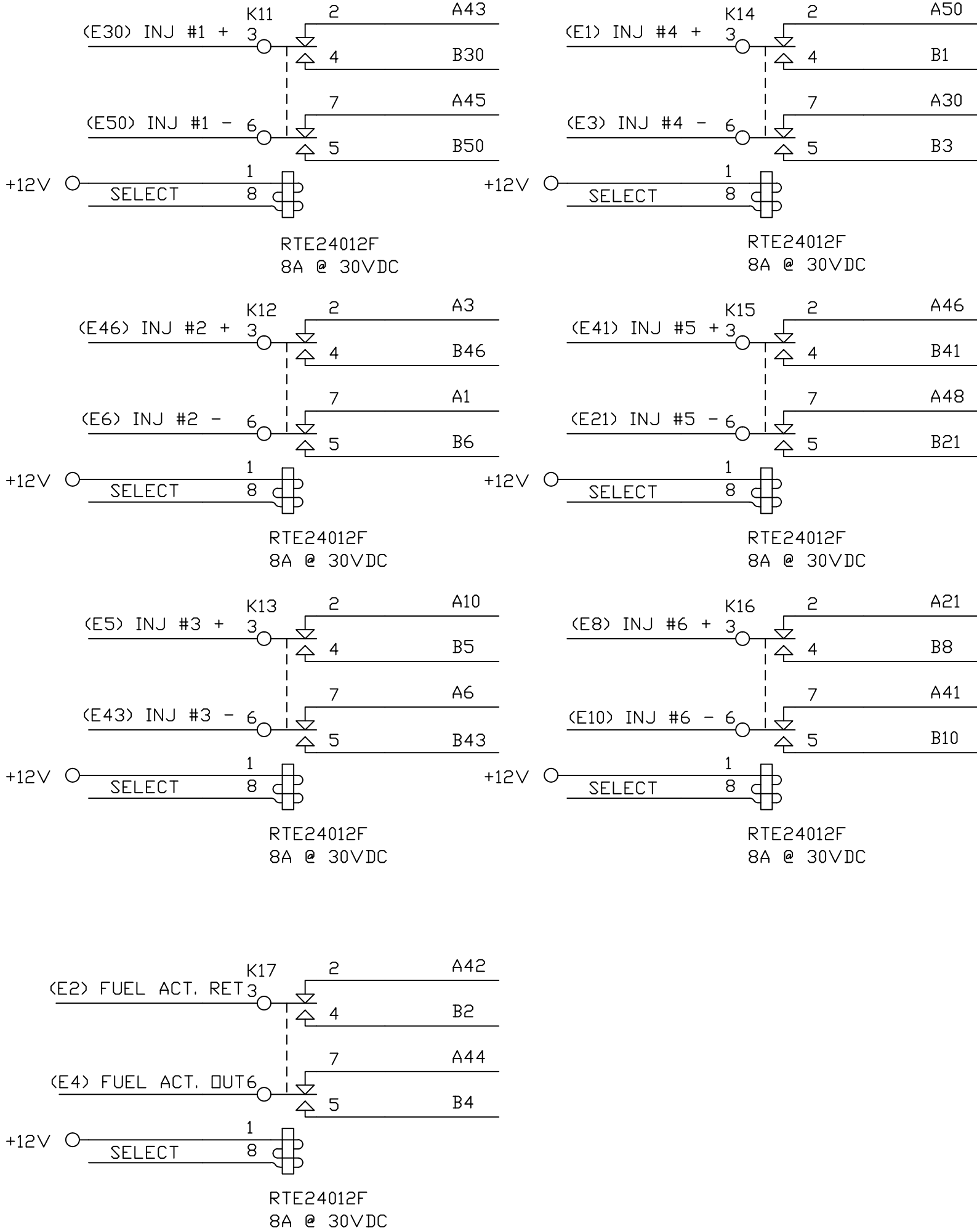




|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                       |  |                                                                                                                               |  |                                                                                        |  |                                                                     |  |                               |  |                   |  |                          |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|-------------------------------|--|-------------------|--|--------------------------|--|
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| <p>SCHEMATIC, ECM SWITCH<br/>CFP5E FIRE PUMP DRIVER</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                       |  |                                                                                                                               |  |                                                                                        |  |                                                                     |  |                               |  |                   |  |                          |  |
| <p>ANGULAR DIMENSIONS ± 1°</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <p>IMPERIAL UNITS</p>                                                                 |  | <p>METRIC UNITS</p>                                                                                                           |  | <p>DWG UNITS:<br/>INCH/LB/S</p>                                                        |  | <p>DRAWN BY: KAK</p>                                                |  | <p>DATE: 14 DEC 2009</p>      |  |                   |  |                          |  |
| <p>THIRD ANGLE PROJECTION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | <p>MACHINE TOLERANCES<br/>XX = ± 0.010<br/>XXX = ± 0.005</p>                          |  | <p>MACHINE TOLERANCES<br/>X = ± 0.1<br/>XX = ± 0.2<br/>XXX = ± 0.5</p>                                                        |  | <p>FORM TOLERANCES<br/>XX = ± 0.010<br/>XXX = ± 0.005</p>                              |  | <p>FORM TOLERANCES<br/>X = ± 0.1<br/>XX = ± 0.2<br/>XXX = ± 0.5</p> |  | <p>SCALE:<br/>EST WEIGHT:</p> |  | <p>SHEET 20F7</p> |  | <p>DRAWING NO: 16260</p> |  |

|     |          |                                  |     |           |
|-----|----------|----------------------------------|-----|-----------|
| 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

| ANGULAR DIMENSIONS ± 1° | IMPERIAL UNITS | METRIC UNITS |
|-------------------------|----------------|--------------|
|-------------------------|----------------|--------------|

| ANGULAR DIMENSIONS ± |  |
|----------------------|--|
|                      |  |

MACHINE TOLERANCES

MACHINE TOLERANCES  
 $X = \pm 0.4$   
 $XX = \pm 0.2$

FORM TOLERANCES  
 .X =  $\pm 0.8$   
 .XX =  $\pm 0.4$

FAB TOLERANCES  
X = ± 1.5

DWG UNITS:  
INCH/LB/S

**AUTO CAD**

DATE: 14 DEC 2009  
REF: 88102

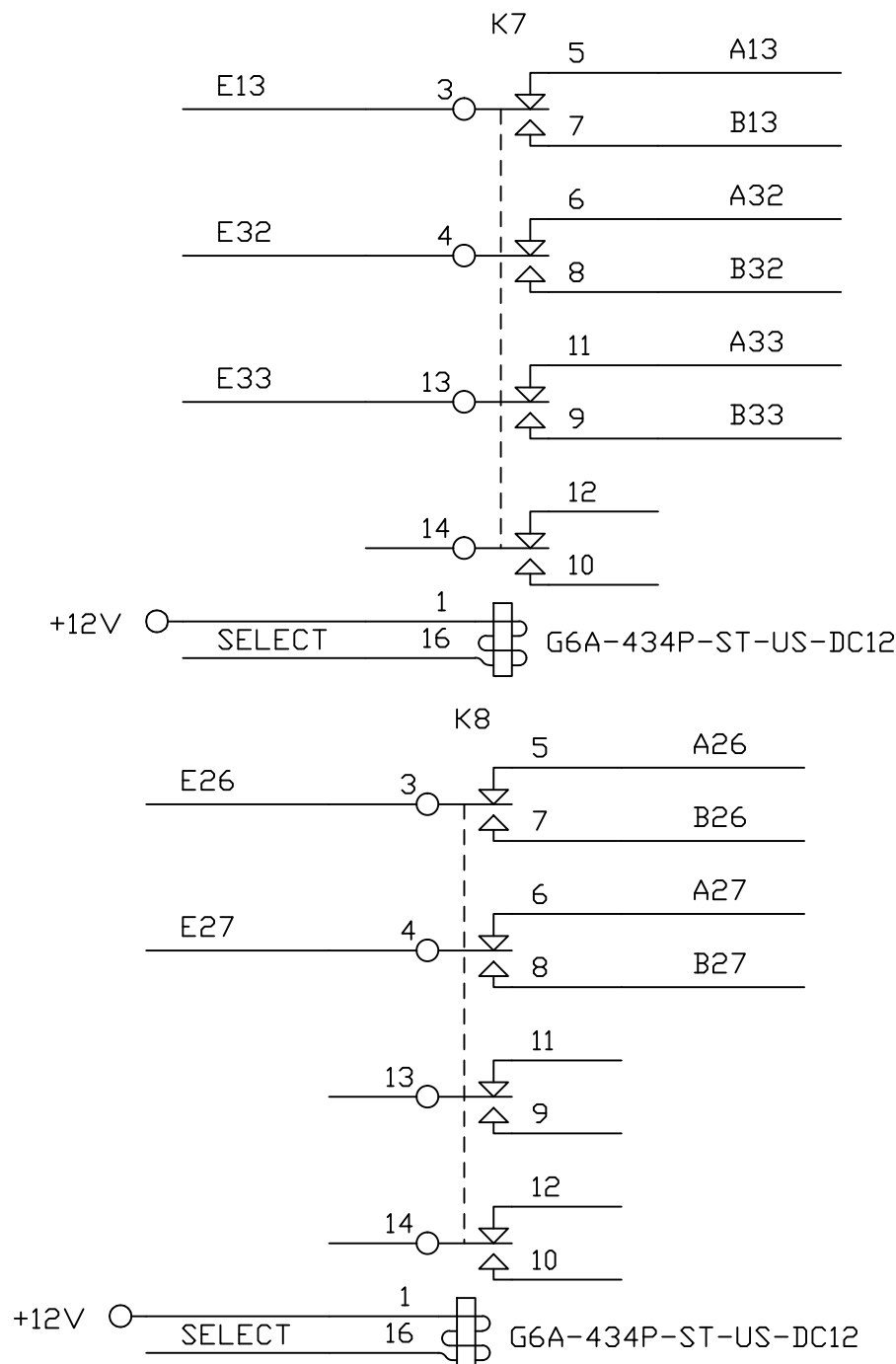
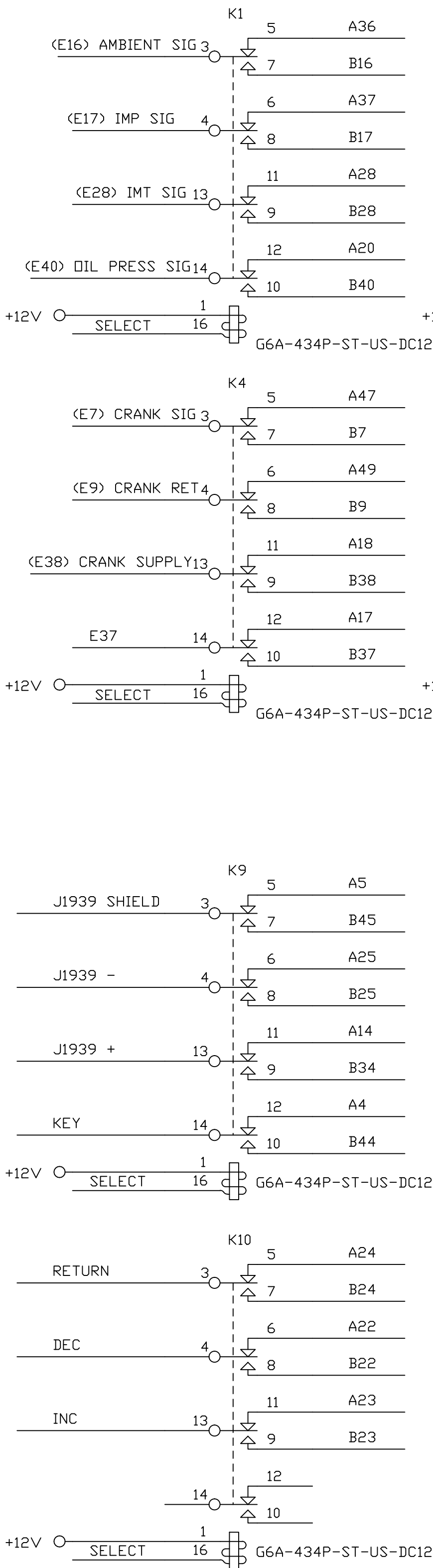
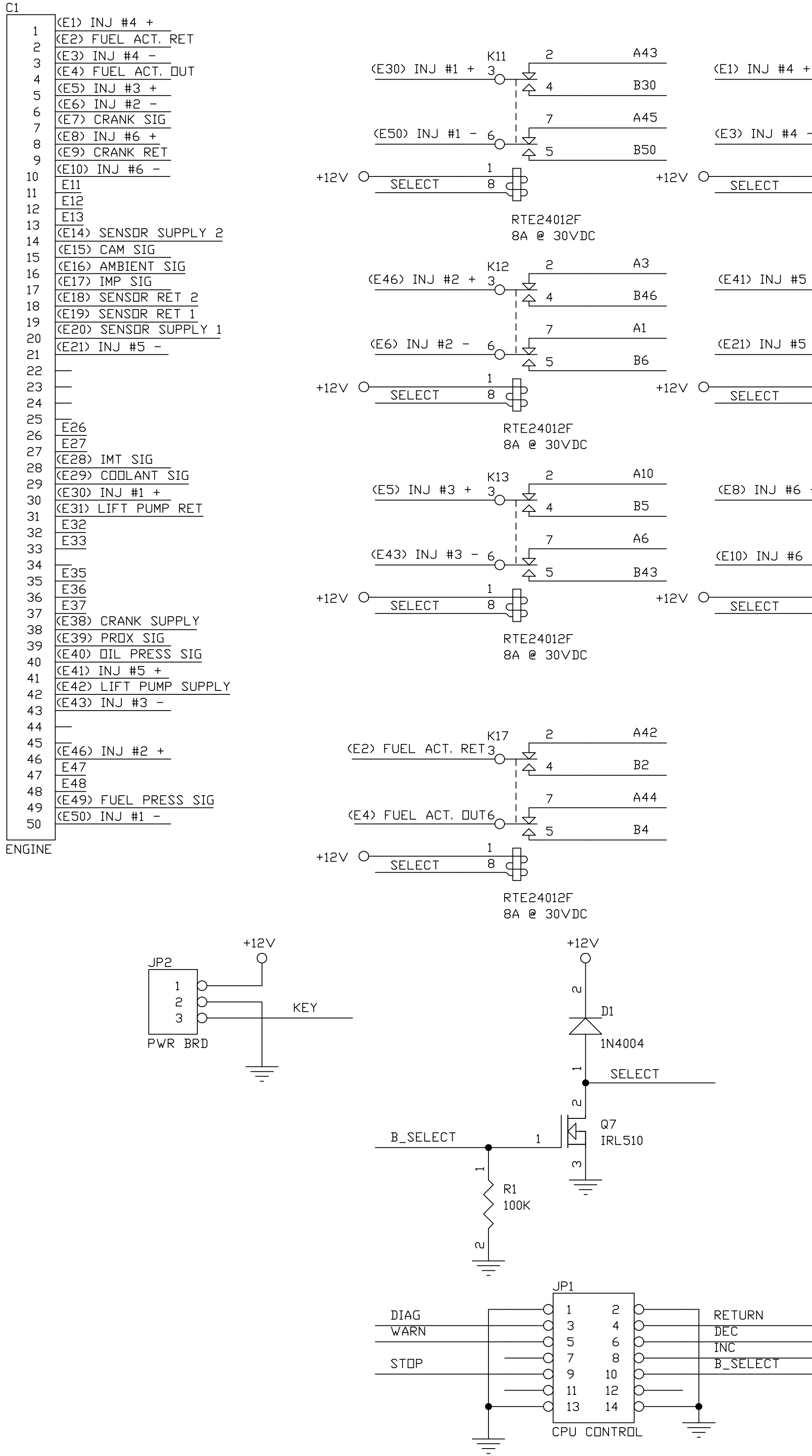
SCALE:

SHEET 30 OF 7

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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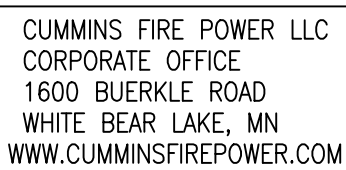
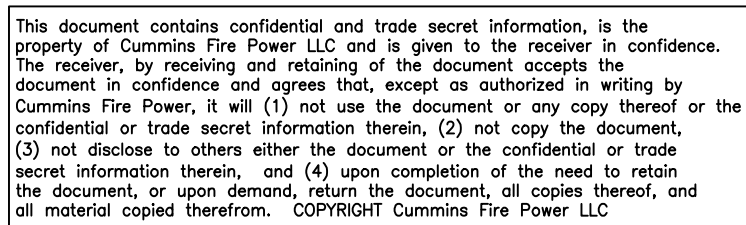
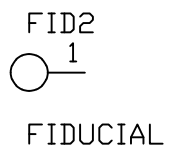
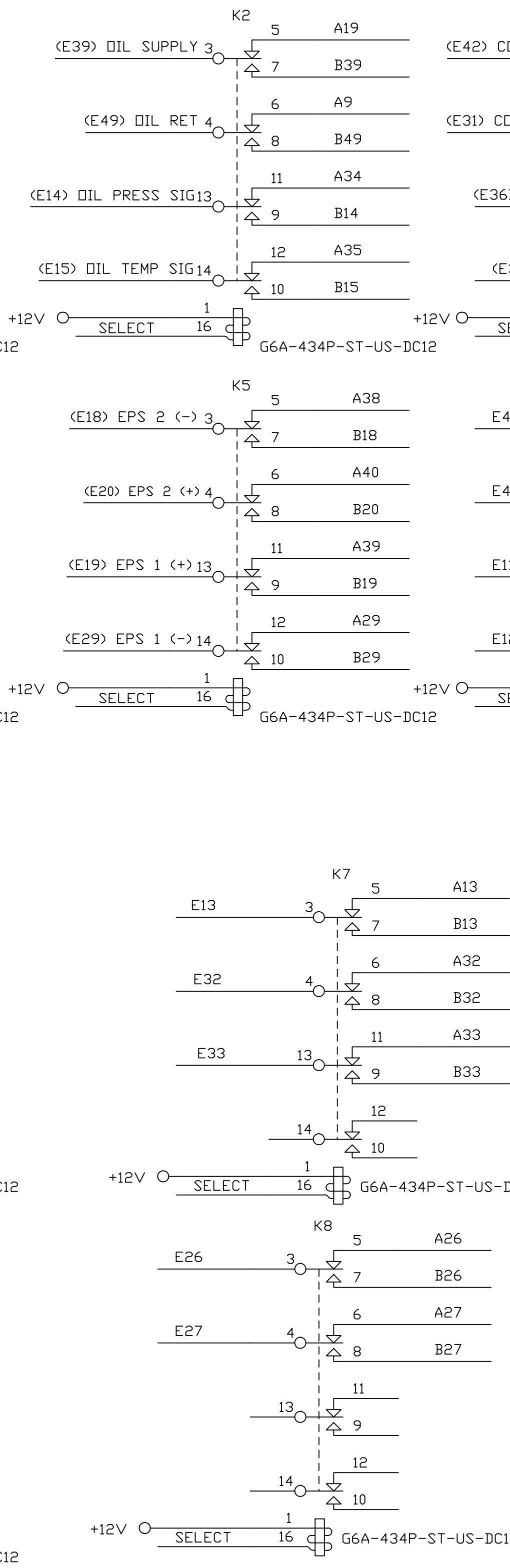
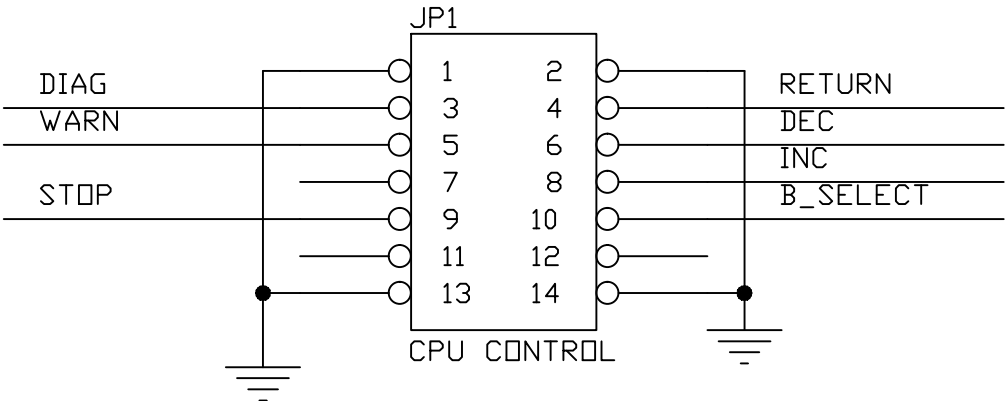
UNLESS OTHERWISE SPECIFIED ALL DIMENSION TOLERANCES ARE

ANGULAR DIMENSIONS ± 1°

THIRD ANGLE PROJECTION

IMPERIAL UNITS  
MACHINE TOLERANCES  
XX ± 0.005  
XX ± 0.01  
XX ± 0.015  
FORM TOLERANCES  
XX ± 0.010  
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XX ± 1.990  
XX ± 1.995  
XX ± 2.000  
XX ± 2.005  
XX ± 2.010  
XX ± 2.015  
XX ± 2.020  
XX ± 2.025  
XX ± 2.030  
XX ± 2.035  
XX ± 2.040  
XX ± 2.045  
XX ± 2.050  
XX ± 2.055  
XX ± 2.060  
XX ± 2.065





CUSTOM DESIGN AND  
UPFIT CENTER  
875 LAWRENCE DRIVE  
DEPERE, WISCONSIN

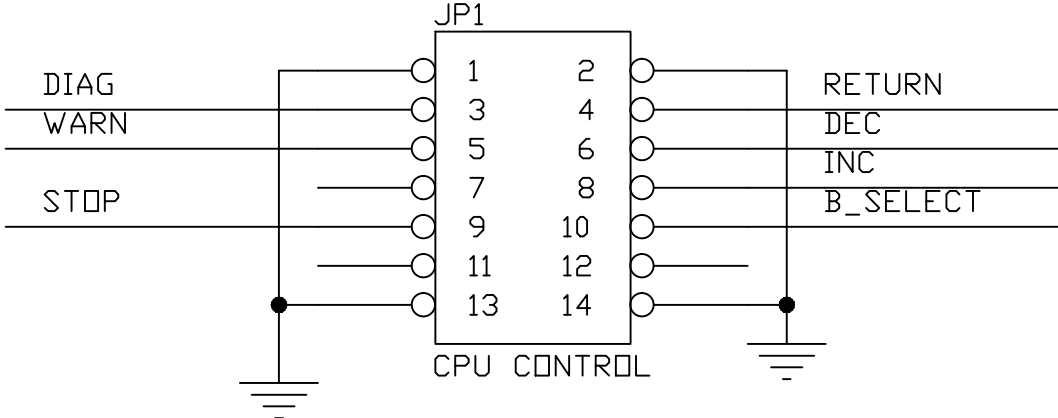
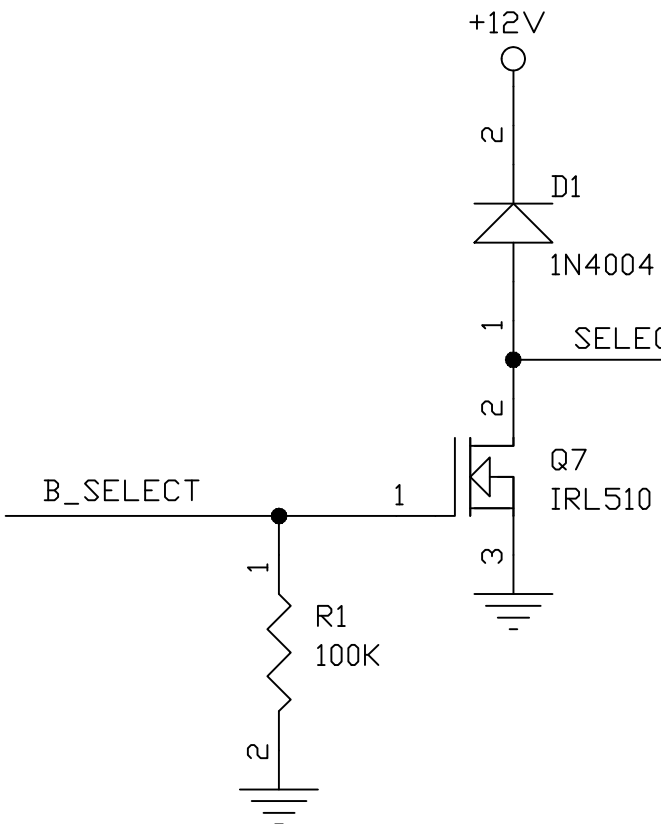
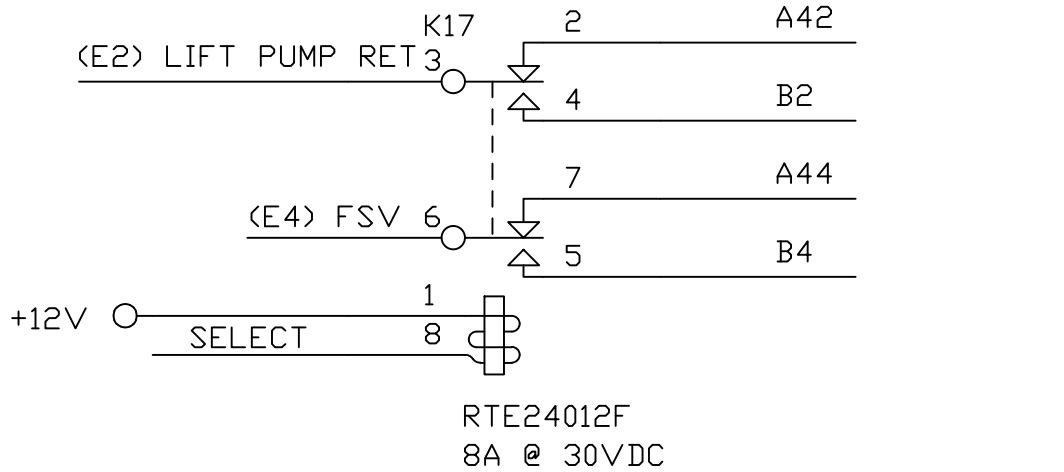
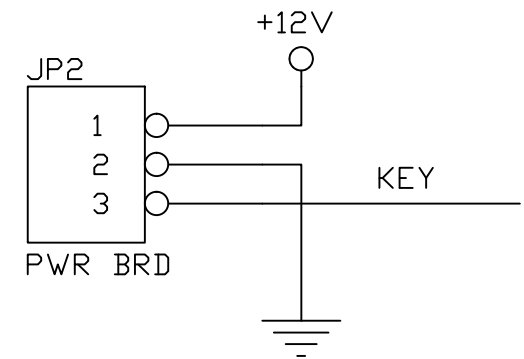
DRAWING NO: 16260

|     |          |                                  |
|-----|----------|----------------------------------|
| D   | 2014-107 | SEE SHEET 1 FOR LATEST REVISION. |
| C   |          | SEE SHEET 1 FOR LATEST REVISION. |
| REV | ENF      | DESCRIPTION OF REVISION          |



|    |                         |
|----|-------------------------|
| C1 | (E1) RFA +              |
| 1  | (E2) LIFT PUMP RET      |
| 2  | (E3) RFA -              |
| 3  | (E4) FSV                |
| 4  | (E5) RTA +              |
| 5  | (E6) FTA -              |
| 6  | (E7) CRANK SIG          |
| 7  | E8                      |
| 8  | (E9) CRANK RET          |
| 9  | E10                     |
| 10 | (E11) IMT/IMP SUPPLY    |
| 11 | (E12) IMT/IMP RET       |
| 12 | (E13) COOLANT SIG       |
| 13 | (E14) OIL PRESS SUPPLY  |
| 14 | (E15) OIL PRESS RET     |
| 15 | (E16) AMBIENT SIG       |
| 16 | (E17) AMBIENT SUPPLY    |
| 17 | (E18) FUEL PRESS SIG    |
| 18 | (E19) FUEL PRESS RET    |
| 19 | (E20) FUEL PRESS SUPPLY |
| 20 | E21                     |
| 21 |                         |
| 22 |                         |
| 23 |                         |
| 24 |                         |
| 25 | E26                     |
| 26 | E27                     |
| 27 | (E28) AMBIENT RET       |
| 28 | (E29) COOLANT SIG       |
| 29 | (E30) FFA +             |
| 30 | (E31) CAM SUPPLY        |
| 31 | E32                     |
| 32 | (E33) COOLANT RET       |
| 33 |                         |
| 34 | E35                     |
| 35 | (E36) CAM RET           |
| 36 | E37                     |
| 37 | (E38) CRANK SUPPLY      |
| 38 | (E39) OIL PRESS SIG     |
| 39 | E40                     |
| 40 | E41                     |
| 41 | (E42) CAM SIG           |
| 42 | (E43) RTA -             |
| 43 |                         |
| 44 |                         |
| 45 | (E46) FTA +             |
| 46 | (E47) IMP SIG           |
| 47 | (E48) IMT SIG           |
| 48 | (E49) OIL TEMP SIG      |
| 49 | (E50) FFA -             |
| 50 |                         |

ENGINE



ABBREVIATIONS: FFA = FRONT FUELING ACTUATOR  
FTA = FRONT TIMING ACTUATOR  
RTA = REAR TIMING ACTUATOR  
RFA = REAR FUELING ACTUATOR  
FSV = FUEL SHUTOFF VALVE  
IMT = INTAKE MANIFOLD TEMP  
IMP = INTAKE MANIFOLD PRESS

