

# Wiring Diagrams



## Generator Sets

Models:

**20DSJB**  
**20-230DSEJB**  
**80-250DSEJC**  
**80-275DSEJD**

Controllers:

Digital 550  
Microprocessor-Plus  
Basic



# Product Identification Information

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Product identification numbers determine service parts. Record the product identification numbers in the spaces below immediately after unpacking the products so that the numbers are readily available for future reference. Record field-installed kit numbers after installing the kits.

## Generator Set Identification Numbers

Record the product identification numbers from the generator set nameplate(s).

Model Designation \_\_\_\_\_

Specification Number \_\_\_\_\_

Serial Number \_\_\_\_\_

| Accessory Number | Accessory Description |
|------------------|-----------------------|
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
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| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |
| _____            | _____                 |

## Controller Identification

Record the controller description from the generator set operation manual, spec sheet, or sales invoice.

Controller Description \_\_\_\_\_

## Engine Identification

Record the product identification information from the engine nameplate.

Manufacturer \_\_\_\_\_

Model Designation \_\_\_\_\_

Serial Number \_\_\_\_\_

This manual provides wiring diagrams for the 20DSJB, 20-230DSEJB, 80-250DSEJC and 80-275DSEJD generator sets equipped with one of the following controllers:

- Digital 550
- Microprocessor-Plus
- Basic

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## Service Assistance

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For professional advice on generator set power requirements and conscientious service, please contact your nearest DDC/MTU Power Generation distributor.

- Consult the Yellow Pages under the heading Generators—Electric.
- Visit the DDC/MTU Power Generation website at [ddcmtupowergeneration.com](http://ddcmtupowergeneration.com).
- Look at the labels and stickers on your DDC/MTU Power Generation product or review the appropriate literature or documents included with the product.

# Wiring Diagrams

Use the Wiring Diagram Cross-Reference chart to determine the wiring diagram version number for a given model number and spec number. Then find that version number, the controller type, and the alternator type on the Wiring Diagrams Reference chart to determine the wiring diagram numbers for your unit.

Refer to Controller Identification for controller type identification, if necessary. Refer to the generator set nameplate for the alternator type. A wound field alternator is identified with a W as the last digit. Example: Gen. Model 4S11W.

## Wiring Diagram Cross-Reference

| Generator Set Model No. | Generator Set Spec No. 50 Hz | Generator Set Spec No. 60 Hz | Wiring Diagram Version No. |
|-------------------------|------------------------------|------------------------------|----------------------------|
| 20DSJB                  | GM19369-GA2S                 | GM19369-GA1S                 | 1-1                        |
| 20DSEJB                 | GM19369-GA4S                 | GM19369-GA3S, 9S             | 1-1                        |
| 30DSEJB                 | GM19369-GA6S                 | GM19369-GA5S, 10S            | 1-1                        |
| 40DSEJB                 | GM19369-GA8S                 | GM19369-GA7S, 11S            | 1-1                        |
| 50DSEJB                 | GM21199-GA2, 4S              | GM21199-GA1S, 3S, 15S, 16S   | 1-1                        |
| 60DSEJB                 | GM21199-GA6S, 8S             | GM21199-GA13S, 14S, 17S, 18S | 1-1                        |
| 80DSEJB                 | GM21199-GA10S, 12S           | GM21199-GA9S, 11S            | 1-1                        |
| 80DSEJC                 | —                            | GM30990-GA1S, 2S             | 1-2                        |
| 80DSEJD                 | —                            | GM51053-GA1S, 2S             | 6                          |
| 100DSEJB                | GM21528-GA1S, 2S             | GM21528-GA3S, 4S             | 1-1                        |
| 100DSEJC                | —                            | GM30990-GA3S, 4S             | 1-2                        |
| 100DSEJD                | —                            | GM51053-GA3S, 4S             | 6                          |
| 125DSEJB                | GM21528-GA5S, 6S             | GM21528-GA7S, 8S             | 1-1                        |
| 125DSEJD                | —                            | GM48076-GA1S, 2S             | 7                          |
| 135DSEJC                | —                            | GM31000-GA1S, 2S             | 1-2                        |
| 150DSEJB                | GM20148-GA1S, 2S             | GM20148-GA3S, 4S             | 1-1                        |
| 150DSEJC                | —                            | GM31000-GA3S, 4S             | 1-2                        |
| 150DSEJD                | —                            | GM48076-GA3S, 4S             | 7                          |
| 180DSEJB                | GM19534-GA1S, 2S             | GM19534-GA3S, 4S             | 1-1                        |
| 180DSEJC                | —                            | GM31000-GA5S, 6S             | 1-2                        |
| 180DSEJD                | —                            | GM39060-GA4S                 | 4-1 or 4-2                 |
| 200DSEJB                | GM19534-GA5S                 | GM19534-GA6S                 | 2                          |
| 200DSEJC                | —                            | GM39060-GA1S                 | 3                          |
| 200DSEJD                | —                            | GM39060-GA3S                 | 5-1 or 5-2                 |
| 230DSEJB                | GM19534-GA7S, 9S             | GM19534-GA8S, 10S            | 2                          |
| 230DSEJD                | —                            | GM46340-GA1S                 | 5-1 or 5-2                 |
| 250DSEJC                | GM39050-GA3S                 | —                            | 2                          |
| 250DSEJD                | —                            | GM46340-GA2S                 | 5-1 or 5-2                 |
| 275DSEJD                | —                            | GM46340-GA3S                 | 5-1 or 5-2                 |

## 20DSJB, 20-180DSEJB, and 80-180DSEJC Wiring Diagrams Reference

| Controller Description                                      | Version 1-1 | Page | Version 1-2 | Page |
|-------------------------------------------------------------|-------------|------|-------------|------|
| <b>Digital 550 Controller</b>                               |             |      |             |      |
| Point-to-Point Wiring Diagram                               |             |      |             |      |
| Sheet 1                                                     | GM19530A-F  | 52   | GM31918A-H  | 56   |
| Sheet 2                                                     | GM19530B-F  | 53   | GM31918B-H  | 57   |
| Wound Field (WF) Alternator                                 | GM35944-C   | 65   | GM35944-C   | 65   |
| Permanent Magnet (PM) Alternator                            | GM35943-B   | 64   | GM35943-B   | 64   |
| Schematic Diagram                                           |             |      |             |      |
| Sheet 1                                                     | ADV-6624A-E | 18   | ADV-6893A-H | 22   |
| Sheet 2                                                     | ADV-6624B-E | 19   | ADV-6893B-H | 23   |
| WF Alternator                                               | ADV-6958-A  | 29   | ADV-6958-A  | 29   |
| PM Alternator                                               | ADV-6957-   | 28   | ADV-6957-   | 28   |
| Accessory Connections                                       |             |      |             |      |
| Accessories                                                 | GM16088A-F  | 46   | GM16088A-F  | 46   |
| Remote Annunciator Kit                                      | GM16088B-F  | 47   | GM16088B-F  | 47   |
| <b>Microprocessor-Plus Controller</b>                       |             |      |             |      |
| Point-to-Point Wiring Diagram                               |             |      |             |      |
| Sheet 1                                                     | GM19445A-C  | 48   | GM32193A-C  | 60   |
| Sheet 2                                                     | GM19445B-C  | 49   | GM32193B-C  | 61   |
| WF Alternator                                               | GM35942-J   | 63   | GM35942-J   | 63   |
| PM Alternator                                               | GM35941-E   | 62   | GM35941-E   | 62   |
| Schematic Diagram                                           |             |      |             |      |
| Sheet 1                                                     | ADV-6619-E  | 16   | ADV-6902-C  | 24   |
| WF Alternator                                               | ADV-6956-E  | 27   | ADV-6956-E  | 27   |
| PM Alternator                                               | ADV-6955-A  | 26   | ADV-6955-A  | 26   |
| Accessory Connections                                       |             |      |             |      |
| Accessories                                                 | 328912A-G   | 82   | 328912A-G   | 82   |
| Remote Annunciator Kit                                      | 328912B-G   | 83   | 328912B-G   | 83   |
| <b>Basic Controller</b>                                     |             |      |             |      |
| Point-to-Point Wiring Diagram                               |             |      |             |      |
| Sheet 1                                                     | GM19447A-E  | 50   | GM32192A-C  | 58   |
| Sheet 2                                                     | GM19447B-E  | 51   | GM32192B-C  | 59   |
| WF Alternator                                               | GM35942-J   | 63   | GM35942-J   | 63   |
| PM Alternator                                               | GM35941-E   | 62   | GM35941-E   | 62   |
| Schematic Diagram                                           |             |      |             |      |
| Sheet 1                                                     | ADV-6621-E  | 17   | ADV-6904-C  | 25   |
| WF Alternator                                               | ADV-6956-E  | 27   | ADV-6956-E  | 27   |
| PM Alternator                                               | ADV-6955-A  | 26   | ADV-6955-A  | 26   |
| <b>Alternator Reconnections</b>                             |             |      |             |      |
| PM and WF Alternators, 4-Lead                               | ADV-5875A-H | 13   | ADV-5875A-H | 13   |
| 20-180 kW PM Alternator and 20-60 kW WF Alternator, 12 Lead | ADV-5875B-H | 14   | ADV-5875B-H | 14   |
| 80-180 kW WF Alternator, 12 Lead                            | ADV-5875C-H | 15   | ADV-5875C-H | 15   |
| <b>Housing Electrical</b>                                   |             |      |             |      |
| 1-Phase                                                     | —           |      | ADV-7035A-  | 31   |
| 3-Phase                                                     | —           |      | ADV-7035B-  | 32   |

**Note:** Version 1-2 uses John Deere JDEC controls.

## 80/100DSEJD Wiring Diagrams Reference

| Controller Description                | Version 6   | Page |
|---------------------------------------|-------------|------|
| <b>Digital 550 Controller</b>         |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM51483A-   | 78   |
| Sheet 2                               | GM51483B-   | 79   |
| Wound Field (WF) Alternator           | GM35944-C   | 65   |
| Permanent Magnet (PM) Alternator      | GM35943-B   | 64   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-7328A-  | 42   |
| Sheet 2                               | ADV-7328B-  | 43   |
| WF Alternator                         | ADV-6958-A  | 29   |
| PM Alternator                         | ADV-6957-   | 28   |
| Accessory Connections                 |             |      |
| Accessories                           | GM16088A-F  | 46   |
| Remote Annunciator Kit                | GM16088B-F  | 47   |
| <b>Microprocessor-Plus Controller</b> |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM51473A-   | 76   |
| Sheet 2                               | GM51473B-   | 77   |
| WF Alternator                         | GM35942-J   | 63   |
| PM Alternator                         | GM35941-E   | 62   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-7327A-  | 40   |
| Sheet 2                               | ADV-7327B-  | 41   |
| WF Alternator                         | ADV-6956-E  | 27   |
| PM Alternator                         | ADV-6955-A  | 26   |
| Accessory Connections                 |             |      |
| Accessories                           | 328912A-G   | 82   |
| Remote Annunciator Kit                | 328912B-G   | 83   |
| <b>Alternator Reconnections</b>       |             |      |
| PM and WF Alternator, 4-Lead          | ADV-5875A-H | 13   |
| PM Alternator, 12-Lead                | ADV-5875B-H | 14   |
| WF Alternator, 12 Lead                | ADV-5875C-H | 15   |
| <b>Housing Electrical</b>             |             |      |
| 1-Phase                               | ADV-7035A-  | 31   |
| 3-Phase                               | ADV-7035B-  | 32   |

## 125/150DSEJD Wiring Diagrams Reference

| Controller Description                | Version 7   | Page |
|---------------------------------------|-------------|------|
| <b>Digital 550 Controller</b>         |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM47240A-   | 70   |
| Sheet 2                               | GM47240B-   | 71   |
| Wound Field (WF) Alternator           | GM35944-C   | 65   |
| Permanent Magnet (PM) Alternator      | GM35943-B   | 64   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-7128A-  | 34   |
| Sheet 2                               | ADV-7128B-  | 35   |
| WF Alternator                         | ADV-6958-A  | 29   |
| PM Alternator                         | ADV-6957-   | 28   |
| Accessory Connections                 |             |      |
| Accessories                           | GM16088A-F  | 46   |
| Remote Annunciator Kit                | GM16088B-F  | 47   |
| <b>Microprocessor-Plus Controller</b> |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM51763A-   | 80   |
| Sheet 2                               | GM51763B-   | 81   |
| WF Alternator                         | GM35942-J   | 63   |
| PM Alternator                         | GM35941-E   | 62   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-7335A-  | 44   |
| Sheet 2                               | ADV-7335B-  | 45   |
| WF Alternator                         | ADV-6956-E  | 27   |
| PM Alternator                         | ADV-6955-A  | 26   |
| Accessory Connections                 |             |      |
| Accessories                           | 328912A-G   | 82   |
| Remote Annunciator Kit                | 328912B-G   | 83   |
| <b>Alternator Reconnections</b>       |             |      |
| PM and WF Alternator, 4-Lead          | ADV-5875A-H | 13   |
| PM Alternator, 12 Lead                | ADV-5875B-H | 14   |
| WF Alternator, 12 Lead                | ADV-5875C-H | 15   |
| <b>Housing Electrical</b>             |             |      |
| 1-Phase                               | ADV-7035A-  | 31   |
| 3-Phase                               | ADV-7035B-  | 32   |

## 180DSEJD Wiring Diagrams Reference

| Controller Description                | Version 4-1 | Page | Version 4-2 | Page |
|---------------------------------------|-------------|------|-------------|------|
| <b>Digital 550 Controller</b>         |             |      |             |      |
| Point-to-Point Wiring Diagram         |             |      |             |      |
| Sheet 1                               | GM47240A-D  | 70   | GM47240A-D  | 70   |
| Sheet 2                               | GM47240B-D  | 71   | GM47240B-D  | 71   |
| Wound Field (WF) Alternator           | GM35944-C   | 65   | GM35944-C   | 65   |
| Permanent Magnet (PM) Alternator      | GM35943-B   | 64   | GM35943-B   | 64   |
| Schematic Diagram                     |             |      |             |      |
| Sheet 1                               | ADV-7128A-C | 34   | ADV-7128A-C | 34   |
| Sheet 2                               | ADV-7128B-C | 35   | ADV-7128B-C | 35   |
| WF Alternator                         | ADV-6958-A  | 29   | ADV-6958-A  | 29   |
| PM Alternator                         | ADV-6957-   | 28   | ADV-6957-   | 28   |
| Accessory Connections                 |             |      |             |      |
| Accessories                           | GM16088A-F  | 46   | GM16088A-F  | 46   |
| Remote Annunciator Kit                | GM16088B-F  | 47   | GM16088B-F  | 47   |
| <b>Microprocessor-Plus Controller</b> |             |      |             |      |
| Point-to-Point Wiring Diagram         |             |      |             |      |
| Sheet 1                               | GM47239A-   | 68   | GM51763A-   | 80   |
| Sheet 2                               | GM47239B-   | 69   | GM51763B-   | 81   |
| WF Alternator                         | GM35942-J   | 63   | GM35942-J   | 63   |
| PM Alternator                         | GM35941-E   | 62   | GM35941-E   | 62   |
| Schematic Diagram                     |             |      |             |      |
| Sheet 1                               | ADV-7127-C  | 33   | ADV-7335A-  | 44   |
| Sheet 2                               | —           |      | ADV-7335B-  | 45   |
| WF Alternator                         | ADV-6956-E  | 27   | ADV-6956-E  | 27   |
| PM Alternator                         | ADV-6955-A  | 26   | ADV-6955-A  | 26   |
| Accessory Connections                 |             |      |             |      |
| Accessories                           | 328912A-G   | 82   | 328912A-G   | 82   |
| Remote Annunciator Kit                | 328912B-G   | 83   | 328912B-G   | 83   |
| <b>Alternator Reconnections</b>       |             |      |             |      |
| PM Alternator, 12 Lead                | ADV-5875B-H | 14   | ADV-5875B-H | 14   |
| WF Alternator, 12 Lead                | ADV-5875C-H | 15   | ADV-5875C-H | 15   |
| <b>Housing Electrical</b>             |             |      |             |      |
| 3-Phase                               | ADV-7035B-  | 32   | ADV-7035B-  | 32   |

**Note:** Version 4-1 applies to 16-light controller P/Ns 364502MA-48S, -55S, -84S

**Note:** Version 4-2 applies to 16-light controller P/Ns 364502MA-106S, -107S, -109S

## 200-230DSEJB and 250DSEJC Wiring Diagrams Reference

| Controller Description                | Version 2   | Page |
|---------------------------------------|-------------|------|
| <b>Digital 550 Controller</b>         |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM19531A-E  | 54   |
| Sheet 2                               | GM19531B-E  | 55   |
| Wound Field (WF) Alternator           | GM35944-C   | 65   |
| Permanent Magnet (PM) Alternator      | GM35943-B   | 64   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-6625A-C | 20   |
| Sheet 2                               | ADV-6625B-C | 21   |
| WF Alternator                         | ADV-6958-A  | 29   |
| PM Alternator                         | ADV-6957-   | 28   |
| Accessory Connections                 |             |      |
| Accessories                           | GM16088A-F  | 46   |
| Remote Annunciator Kit                | GM16088B-F  | 47   |
| <b>Microprocessor-Plus Controller</b> |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM19445A-C  | 48   |
| Sheet 2                               | GM19445B-C  | 49   |
| WF Alternator                         | GM35942-J   | 63   |
| PM Alternator                         | GM35941-E   | 62   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-6619-E  | 16   |
| WF Alternator                         | ADV-6956-E  | 27   |
| PM Alternator                         | ADV-6955-A  | 26   |
| Accessory Connections                 |             |      |
| Accessories                           | 328912A-G   | 82   |
| Remote Annunciator Kit                | 328912B-G   | 83   |
| <b>Alternator Reconnections</b>       |             |      |
| PM Alternator, 12 Lead                | ADV-5875B-H | 14   |
| WF Alternator, 12 Lead                | ADV-5875C-H | 15   |
| <b>Housing Electrical</b>             | ADV-7035B-  | 32   |

## 200DSEJC Wiring Diagrams Reference

| Controller Description                | Version 3   | Page |
|---------------------------------------|-------------|------|
| <b>Digital 550 Controller</b>         |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM48929A-   | 72   |
| Sheet 2                               | GM48929A-   | 73   |
| Wound Field (WF) Alternator           | GM35944-C   | 65   |
| Permanent Magnet (PM) Alternator      | GM35943-B   | 64   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-7263A-  | 36   |
| Sheet 2                               | ADV-7263B-  | 37   |
| WF Alternator                         | ADV-6958-A  | 29   |
| PM Alternator                         | ADV-6957-   | 28   |
| Accessory Connections                 |             |      |
| Accessories                           | GM16088A-F  | 46   |
| Remote Annunciator Kit                | GM16088B-F  | 47   |
| <b>Microprocessor-Plus Controller</b> |             |      |
| Point-to-Point Wiring Diagram         |             |      |
| Sheet 1                               | GM39630A-A  | 66   |
| Sheet 2                               | GM39630B-A  | 67   |
| WF Alternator                         | GM35942-J   | 63   |
| PM Alternator                         | GM35941-E   | 62   |
| Schematic Diagram                     |             |      |
| Sheet 1                               | ADV-7018-B  | 30   |
| WF Alternator                         | ADV-6956-E  | 27   |
| PM Alternator                         | ADV-6955-A  | 26   |
| Accessory Connections                 |             |      |
| Accessories                           | 328912A-G   | 82   |
| Remote Annunciator Kit                | 328912B-G   | 83   |
| <b>Alternator Reconnections</b>       |             |      |
| PM Alternator, 12 Lead                | ADV-5875B-H | 14   |
| WF Alternator, 12 Lead                | ADV-5875C-H | 15   |
| <b>Housing Electrical</b>             | ADV-7035B-  | 32   |

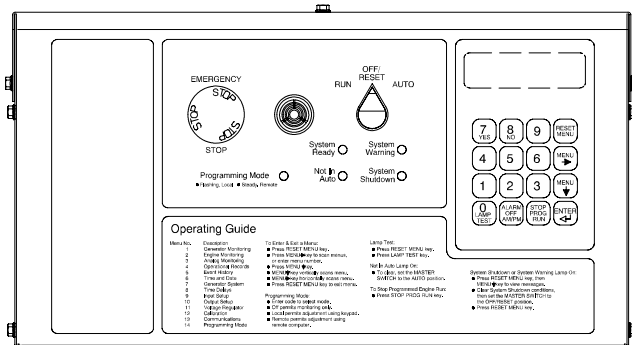
## 200-275DSEJD Wiring Diagrams Reference

| Controller Description                | Version 5-1 | Page | Version 5-2 | Page |
|---------------------------------------|-------------|------|-------------|------|
| <b>Digital 550 Controller</b>         |             |      |             |      |
| Point-to-Point Wiring Diagram         |             |      |             |      |
| Sheet 1                               | GM48931A-A  | 54   | GM48931A-A  | 54   |
| Sheet 2                               | GM48931B-A  | 55   | GM48931B-A  | 55   |
| Wound Field (WF) Alternator           | GM35944-C   | 65   | GM35944-C   | 65   |
| Permanent Magnet (PM) Alternator      | GM35943-B   | 64   | GM35943-B   | 64   |
| Schematic Diagram                     |             |      |             |      |
| Sheet 1                               | ADV-7264A-A | 38   | ADV-7264A-A | 38   |
| Sheet 2                               | ADV-7264B-A | 39   | ADV-7264B-A | 39   |
| WF Alternator                         | ADV-6958-A  | 29   | ADV-6958-A  | 29   |
| PM Alternator                         | ADV-6957-   | 28   | ADV-6957-   | 28   |
| Accessory Connections                 |             |      |             |      |
| Accessories                           | GM16088A-F  | 46   | GM16088A-F  | 46   |
| Remote Annunciator Kit                | GM16088B-F  | 47   | GM16088B-F  | 47   |
| <b>Microprocessor-Plus Controller</b> |             |      |             |      |
| Point-to-Point Wiring Diagram         |             |      |             |      |
| Sheet 1                               | GM47239A-   | 68   | GM51763A-   | 80   |
| Sheet 2                               | GM47239B-   | 69   | GM51763B-   | 81   |
| WF Alternator                         | GM35942-J   | 63   | GM35942-J   | 63   |
| PM Alternator                         | GM35941-E   | 62   | GM35941-E   | 62   |
| Schematic Diagram                     |             |      |             |      |
| Sheet 1                               | ADV-7127-C  | 33   | ADV-7335A-  | 44   |
| Sheet 2                               | —           |      | ADV-7335B-  | 45   |
| WF Alternator                         | ADV-6956-E  | 27   | ADV-6956-E  | 27   |
| PM Alternator                         | ADV-6955-A  | 26   | ADV-6955-A  | 26   |
| Accessory Connections                 |             |      |             |      |
| Accessories                           | 328912A-G   | 82   | 328912A-G   | 82   |
| Remote Annunciator Kit                | 328912B-G   | 83   | 328912B-G   | 83   |
| <b>Alternator Reconnections</b>       |             |      |             |      |
| PM Alternator, 12 Lead                | ADV-5875B-H | 14   | ADV-5875B-H | 14   |
| WF Alternator, 12 Lead                | ADV-5875C-H | 15   | ADV-5875C-H | 15   |
| <b>Housing Electrical</b>             | ADV-7035B-  | 32   | ADV-7035B-  | 32   |

**Note:** Version 5-1 applies to 16-light controller P/Ns 364502-MA33S, 49S, 59S, 85S

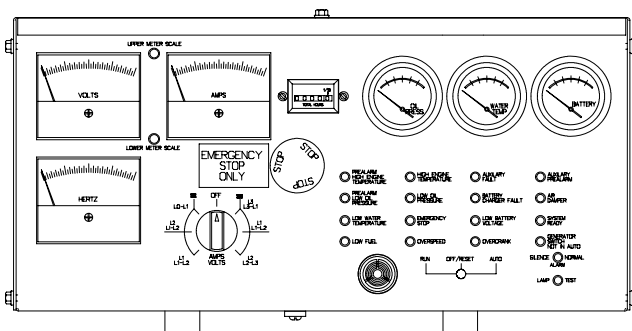
**Note:** Version 5-2 applies to 16-light controller P/Ns 364502-MA37S, 110S, 111S, 112S

# Controller Identification



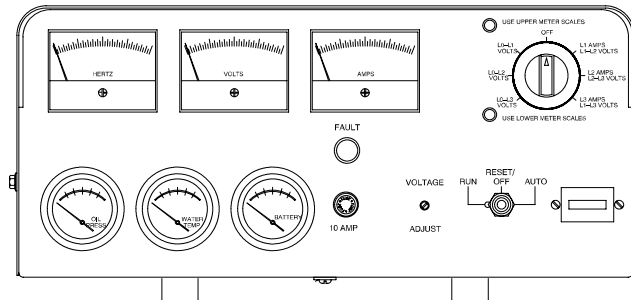
## Digital 550 Controller

- Audiovisual annunciation with NFPA 110 Level 1 capability.
- Programmable microprocessor logic and digital display features.
- Safeguard circuit protection standard.
- 12- or 24-volt engine electrical system capability.
- Remote start, remote annunciation, and remote communication options.



## Microprocessor-Plus, 16-Light Controller

- Audiovisual annunciation with NFPA 110 Level 1 capability.
- Microprocessor logic, AC meters, and engine gauge features.
- 12- or 24-volt engine electrical system capability.
- Remote start, prime power, and remote annunciation options.

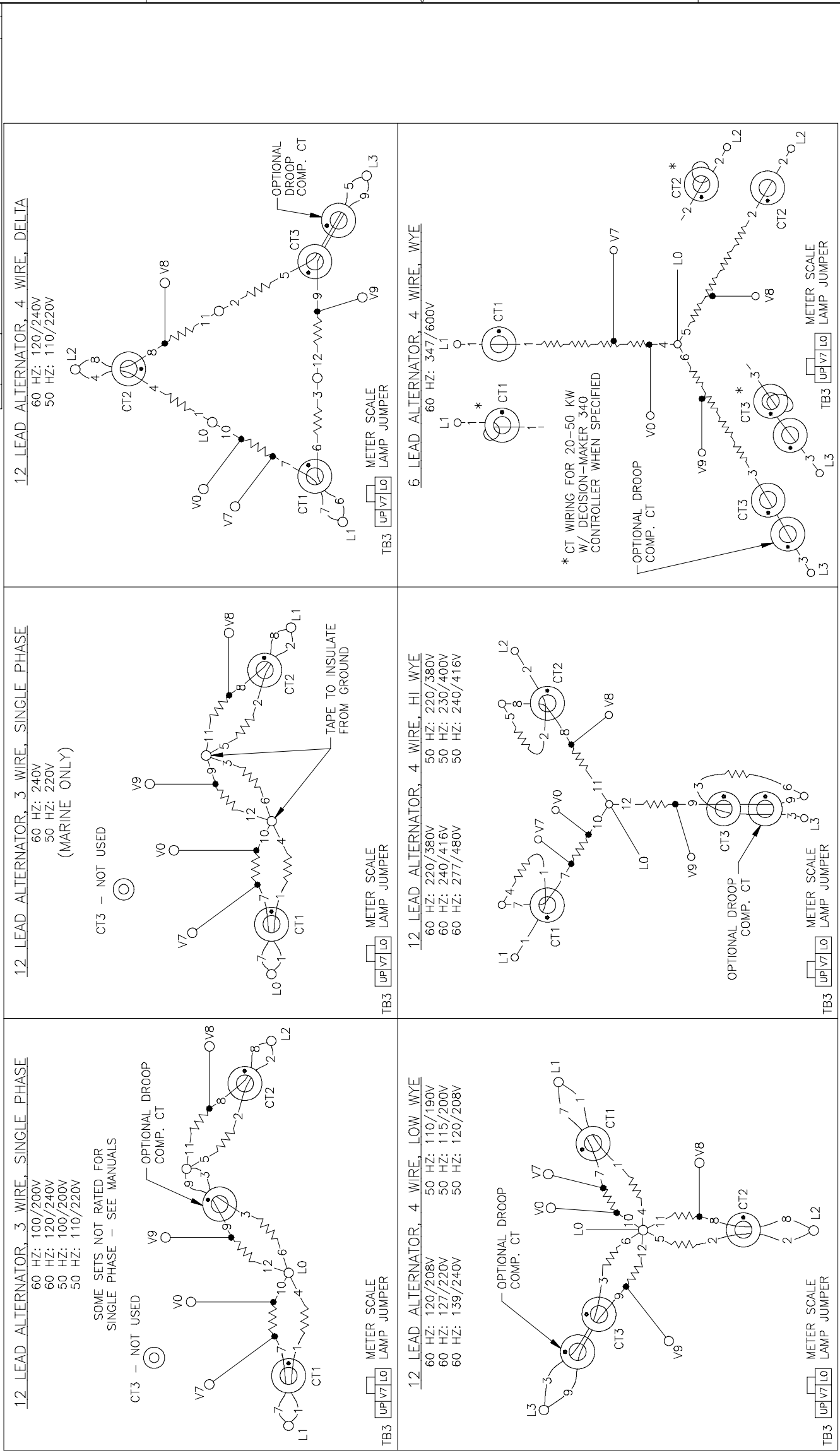


## Expanded Basic Controller

- Single-light annunciation and basic controls with NFPA capability.
- Relay logic, AC meters, and engine gauge features.
- 12-volt engine electrical system capability only.
- Remote or automatic start options.



| REV | DATE     | REVISION                                                                                                                                                                 | BY  | DATE |
|-----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| E   | 5-27-04  | (A-1, -2) SHEET 1-3 WAS 1-2, 20-60 KW WOUND EXCITER FIELD ALTERNATORS ADDED TO DRAWING DESCRIPTION; (A & C-2, -3, -4) TB3 WAS TB2 (6 PLACES); & SEE SHEETS 2 & 3 [71832] | DFS |      |
| F   | 9-2-04   | SEE SHEET 2 OF 3. [72955]                                                                                                                                                | RAC |      |
| G   | 12-12-05 | (A-2) 10-20 KW ADDED, SEE SHEET 3 [76798]                                                                                                                                | SAM |      |
| H   | 9-25-06  | (A-1) SHEET 2 OF 4 WAS 1 OF 3 [77613]                                                                                                                                    | CRS |      |



|                                                                                                                                                                                                          |           |  |                           |          |              |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|---------------------------|----------|--------------|----|
| UNLESS OTHERWISE SPECIFIED --<br>1) DIMENSIONS ARE IN INCHES<br>2) DIMENSIONS IN PARENT BRACKETS<br>ANGLES ± 1/2°<br>.XXX ± .010<br>.XX ± .030<br>SURFACE FINISH<br>X .040<br>FRACTIONS ±<br>MAX.      ✓ | TITLE     |  | DIAGRAM,<br>RECONNECTABLE |          |              |    |
|                                                                                                                                                                                                          | APPROVALS |  | DATE                      |          |              |    |
|                                                                                                                                                                                                          | DRAWN     |  | DFS                       | 7-28-92  |              |    |
|                                                                                                                                                                                                          | CHECKED   |  | TJK                       | 6-23-99  |              |    |
|                                                                                                                                                                                                          | APPROVED  |  | JMK                       | 6-25-99  |              |    |
| SCALE                                                                                                                                                                                                    |           |  | NONE                      | CAD NO.  | ADV8975B DWG |    |
| PLOTTED                                                                                                                                                                                                  |           |  |                           | DWG. NO. | ADV-5875     |    |
|                                                                                                                                                                                                          |           |  |                           |          |              | C6 |

NOTES:  
CURRENT TRANSFORMER DOT OR "H1" TOWARD GENERATOR.  
CURRENT TRANSFORMERS NOT USED ON ALL SETS.

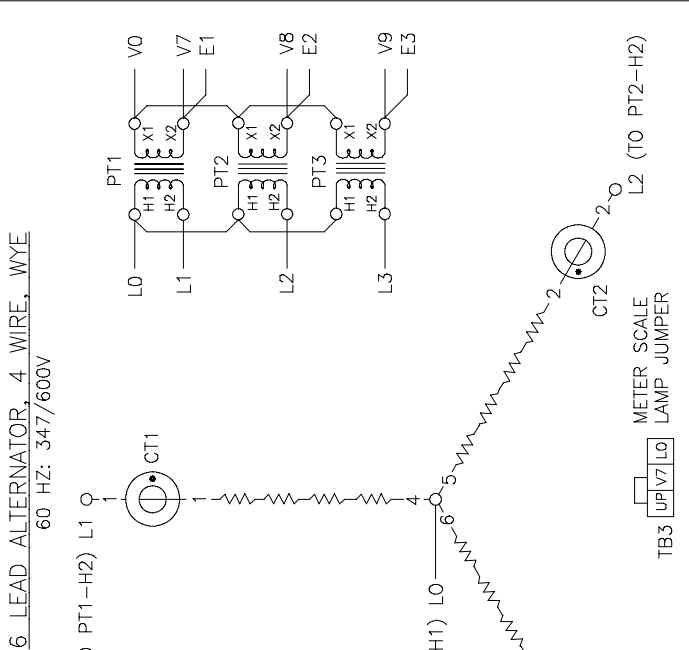
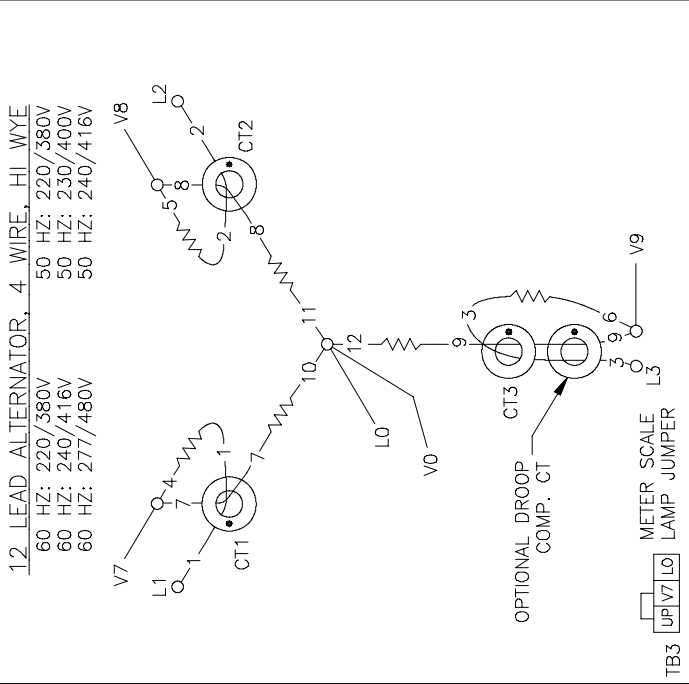
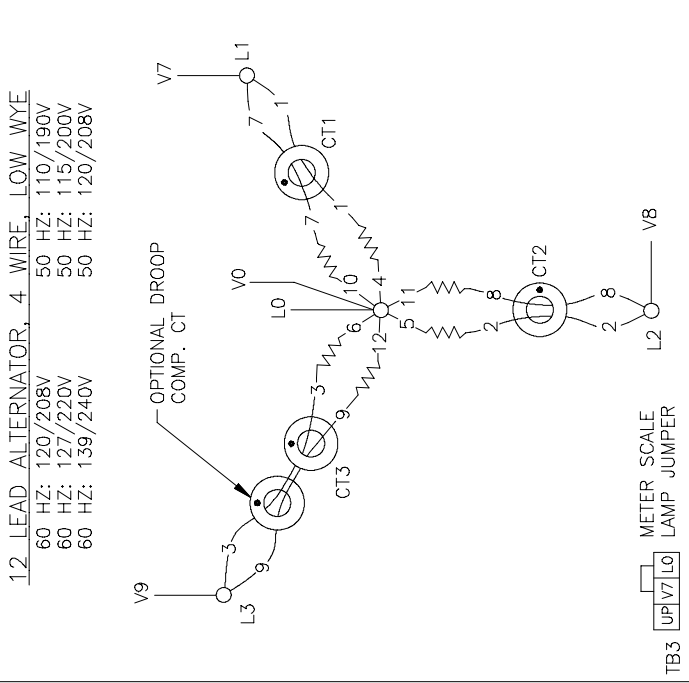
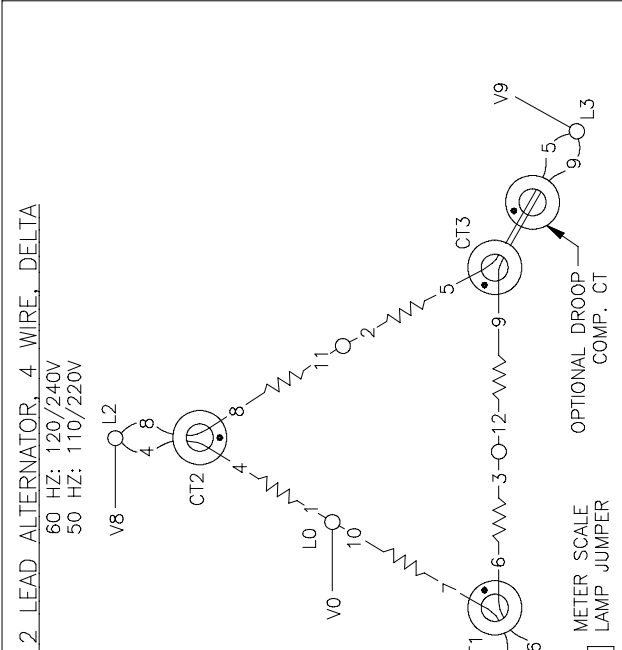
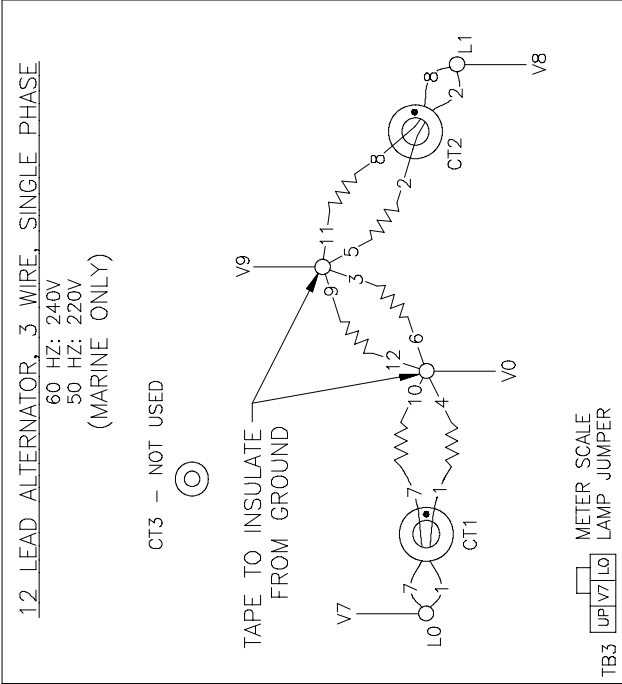
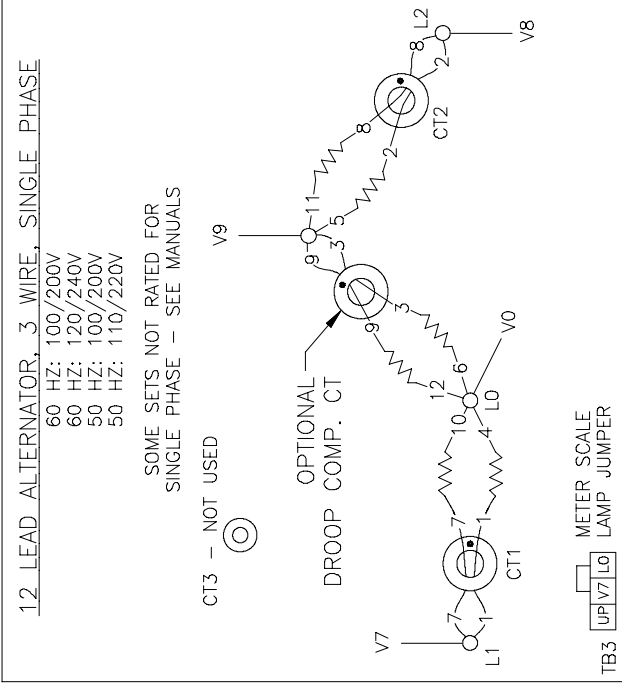
4

3

2

1

| REV | DATE     | REVISION                                        | BY  |
|-----|----------|-------------------------------------------------|-----|
| F   | 9-2-04   | (A-2) 60 (I.M.S.)-300 KW WAS 60-300 KW. [77955] | RAC |
| G   | 12-12-05 | SEE SHEET 3 [76798]                             | SAM |
| H   | 9-25-06  | (A-1) SHEET 3 OF 4 WAS 2 OF 3 [77613]           | CRS |
|     |          |                                                 |     |
|     |          |                                                 |     |
|     |          |                                                 |     |
|     |          |                                                 |     |



NOTES:  
CURRENT TRANSFORMER DOT OR "H1" TOWARD GENERATOR.  
CURRENT TRANSFORMERS NOT USED ON ALL SETS.

PHASE ROTATION

|    |    |    |
|----|----|----|
| A  | B  | C  |
| L1 | L2 | L3 |

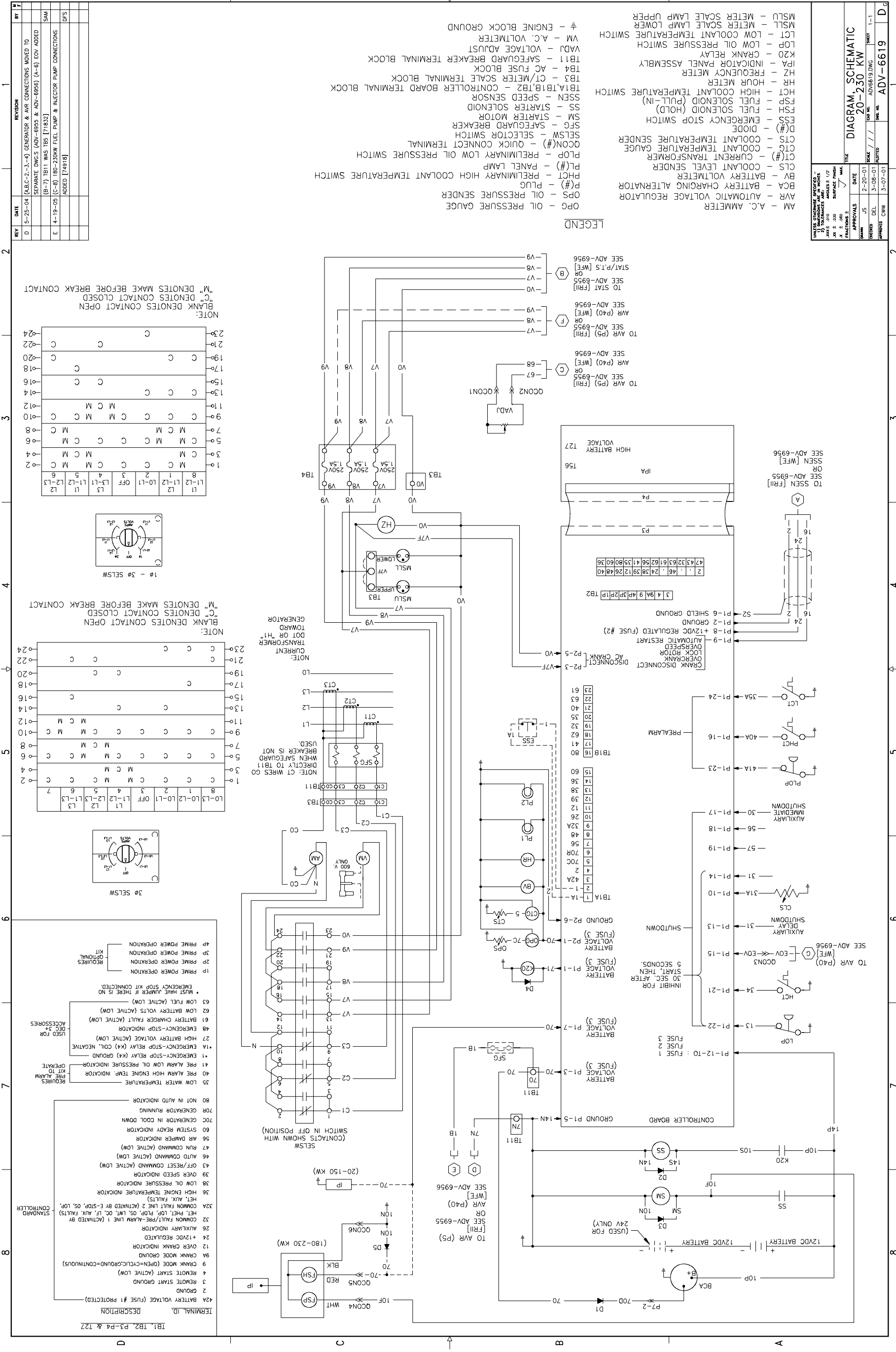
|                                                                                                                                                                           |  |           |  |         |  |                        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|---------|--|------------------------|--|
| UNLESS OTHERWISE SPECIFIED -<br>1) DIMENSIONS ARE IN INCHES<br>2) TOLERANCES ARE:<br>XXX ± .010 ANGLES ± 1/2°<br>XX ± .030 SURFACE FINISH<br>X ± .060 MAX.<br>FRACTIONS ± |  | APPROVALS |  | DATE    |  | TITLE                  |  |
| DRAWN                                                                                                                                                                     |  | LDS       |  | 8-25-98 |  | DIAGRAM, RECONNECTABLE |  |
| CHECKED                                                                                                                                                                   |  | TLK       |  | 6-23-99 |  | SCALE NONE             |  |
| APPROVED                                                                                                                                                                  |  | JMH       |  | 6-25-99 |  | PLOTTED 3-4            |  |
|                                                                                                                                                                           |  |           |  |         |  | ADV5875C.DWG           |  |
|                                                                                                                                                                           |  |           |  |         |  | ADV-5875               |  |
|                                                                                                                                                                           |  |           |  |         |  | C G                    |  |

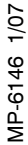
4

3

2

1



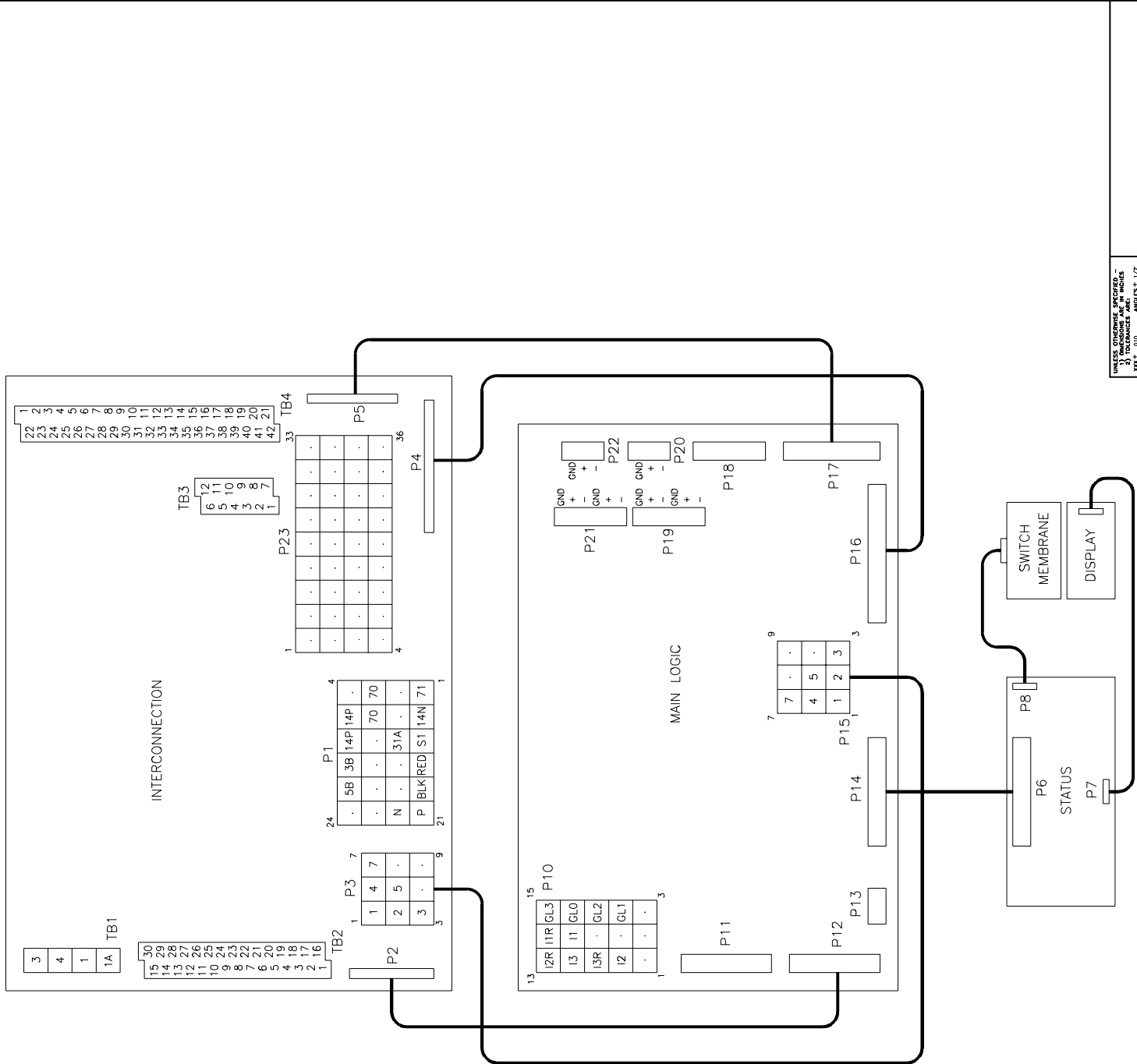








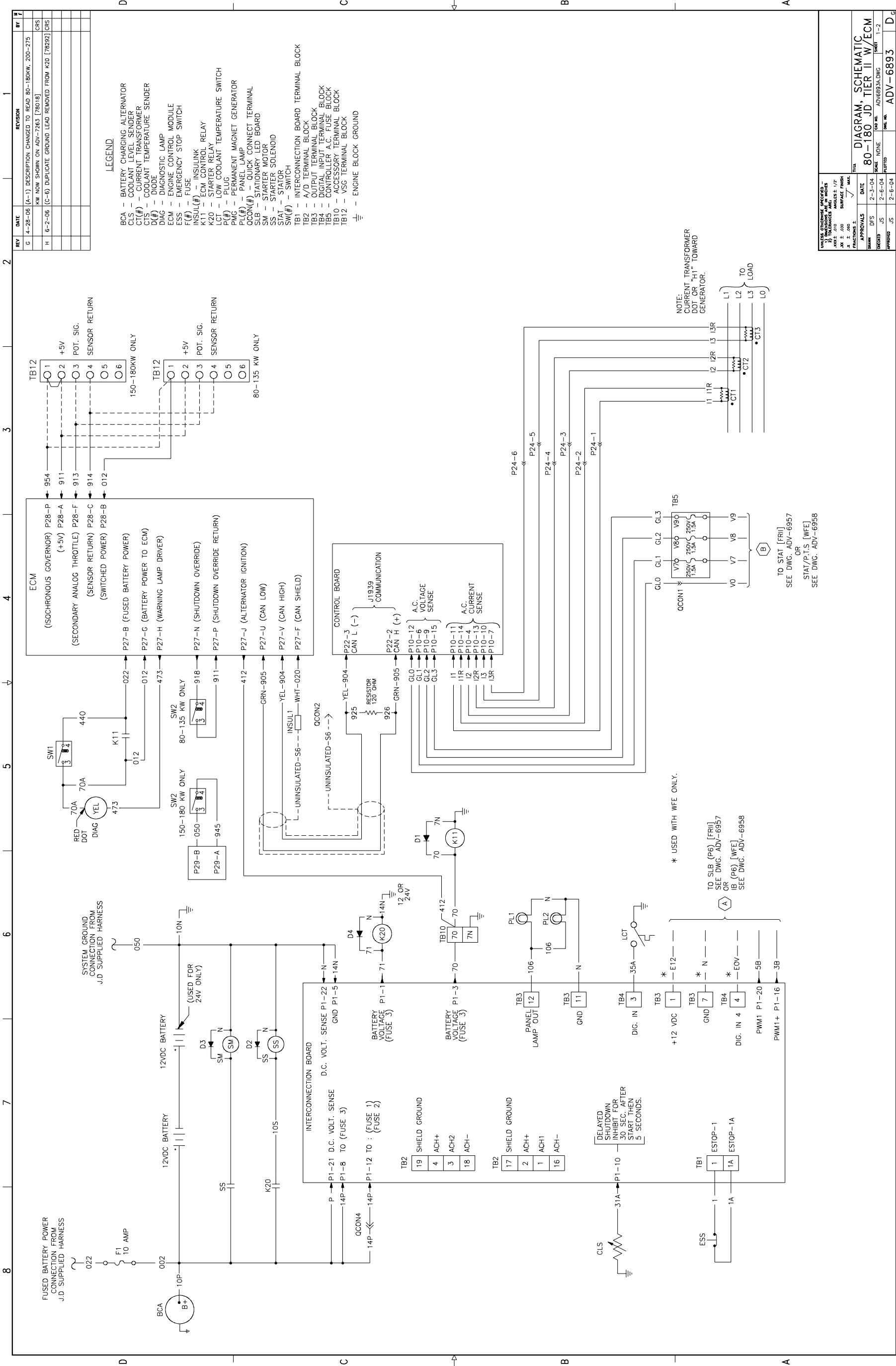
| REV | DATE    | REVISION                                                                                                       | BY | JS  |
|-----|---------|----------------------------------------------------------------------------------------------------------------|----|-----|
| -   | 3-2-01  | NEW DRAWING [44182]                                                                                            |    |     |
| A   | 7-3-01  | SEE SHEET 1 [44768]                                                                                            |    | JS  |
| B   | 5-16-02 | (A-1, -2) 200-250 KW JOHN DIERE WAS 200 KW JOHN DIERE<br>(A-1, -2) 200-250 KW JOHN DIERE WAS 200 KW JOHN DIERE |    | JS  |
|     |         | IN DRAWING TITLE & DRAWING DESCRIPTION [67381]                                                                 |    | DPS |
| C   | 8-9-04  | (D-6) P19 FACTORY TEST PORT WAS P19 RS468B ISOLATED<br>CONNECTIONS & SEE SHEET 1 [73003]                       |    | DPS |

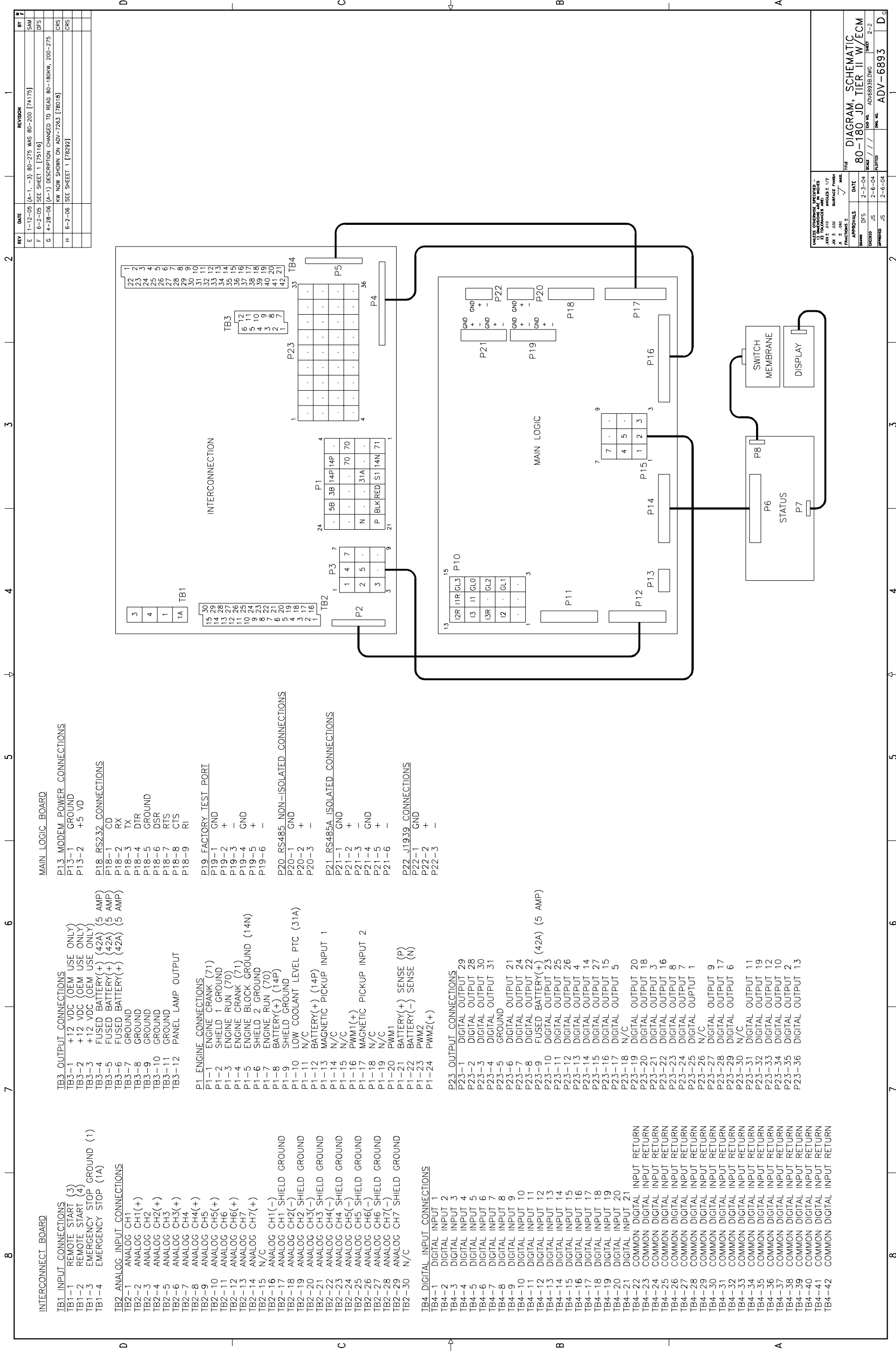


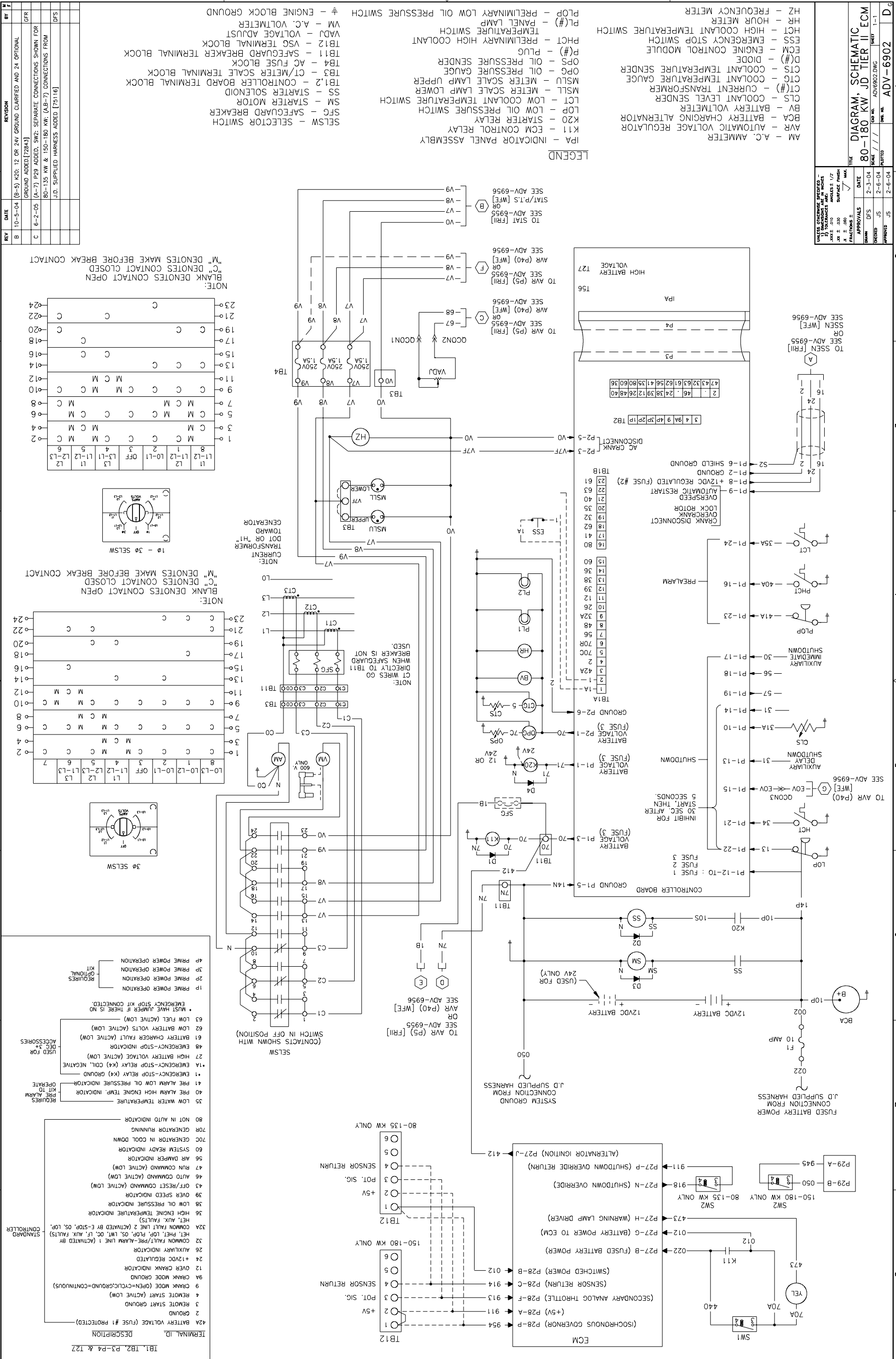
|                                                                                                                                                                                           |           |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------|
| UNLESS OTHERWISE SPECIFIED -<br>1) TOLERANCES ARE IN INCHES<br>2) TOLERANCES ARE<br>X.XX ± .010 SURFACE FINISH<br>XX ± .030 SURFACE FINISH<br>X ± .005 SURFACE FINISH<br>FRACTIONS ± DATE | APPROVALS | TITLE                     |
| DESIGN JS 3-2-01                                                                                                                                                                          | DATE      | JOHN DEERE 200 KW         |
| DEL 3-08-01                                                                                                                                                                               | SCALE 1/1 | ADV-6625B DWG - SHEET 2-2 |
| APPROVED CWW 3-06-01                                                                                                                                                                      | PLOTTED   | ADV - 6625 D              |

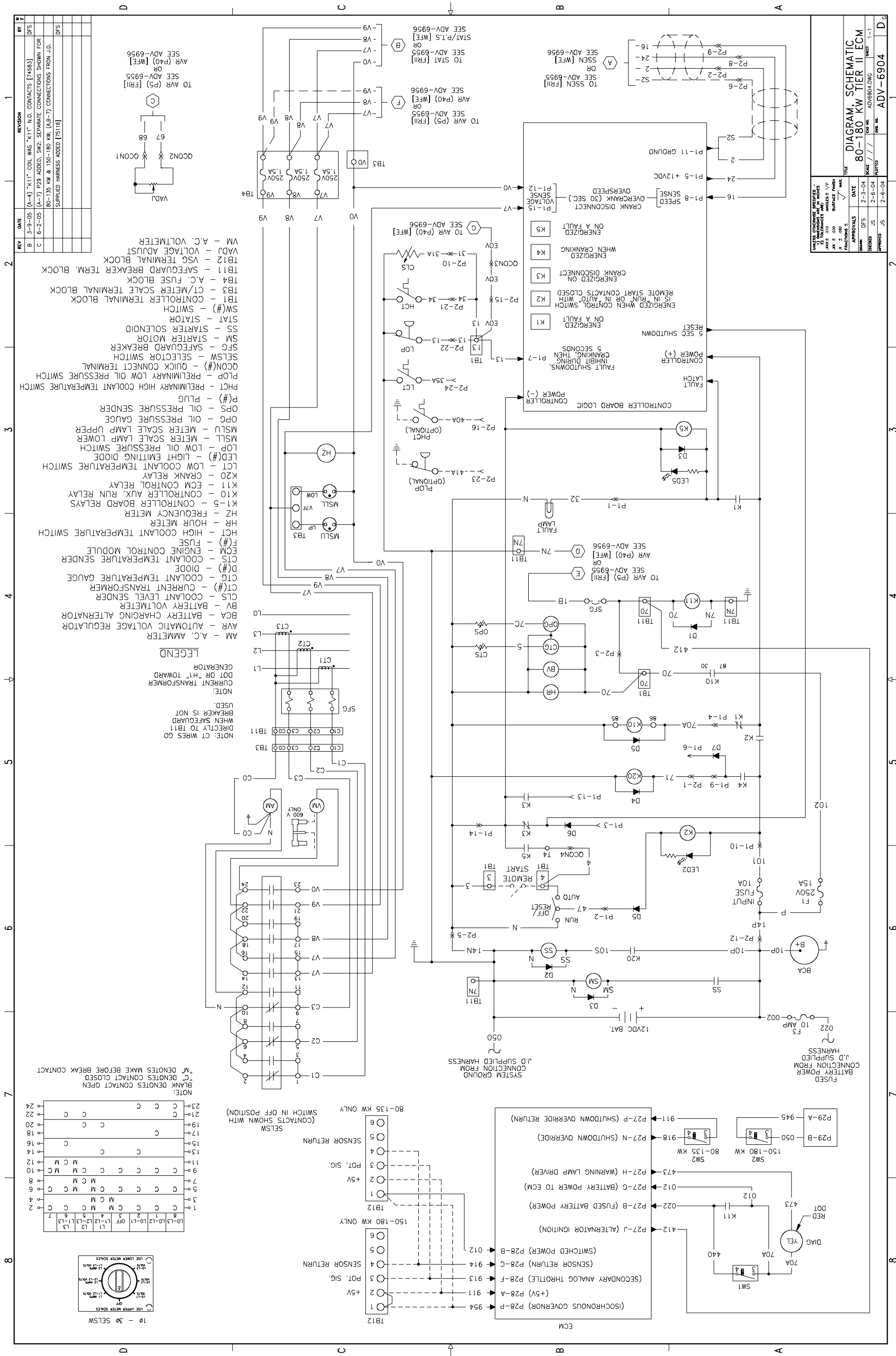
| 8                                         | 7                              | 6 | 5 |
|-------------------------------------------|--------------------------------|---|---|
| <u>INTERCONNECT BOARD</u>                 |                                |   |   |
| <u>TB1 INPUT CONNECTIONS</u>              |                                |   |   |
| TB1-1                                     | REMOTE START (3)               |   |   |
| TB1-2                                     | REMOTE START (4)               |   |   |
| TB1-3                                     | EMERGENCY STOP GROUND (1)      |   |   |
| TB1-4                                     | EMERGENCY STOP (1A)            |   |   |
| <u>TB2 ANALOG INPUT CONNECTIONS</u>       |                                |   |   |
| TB2-1                                     | ANALOG CH1                     |   |   |
| TB2-2                                     | ANALOG CH1(+)                  |   |   |
| TB2-3                                     | ANALOG CH2                     |   |   |
| TB2-4                                     | ANALOG CH2(+)                  |   |   |
| TB2-5                                     | ANALOG CH3                     |   |   |
| TB2-6                                     | ANALOG CH3(+)                  |   |   |
| TB2-7                                     | ANALOG CH4                     |   |   |
| TB2-8                                     | ANALOG CH4(+)                  |   |   |
| TB2-9                                     | ANALOG CH5                     |   |   |
| TB2-10                                    | ANALOG CH5(+)                  |   |   |
| TB2-11                                    | ANALOG CH6                     |   |   |
| TB2-12                                    | ANALOG CH6(+)                  |   |   |
| TB2-13                                    | ANALOG CH7                     |   |   |
| TB2-14                                    | ANALOG CH7(+)                  |   |   |
| TB2-15                                    | N/C                            |   |   |
| TB2-16                                    | ANALOG CH1(-)                  |   |   |
| TB2-17                                    | CH1 SHIELD GROUND              |   |   |
| TB2-18                                    | ANALOG CH2(-)                  |   |   |
| TB2-19                                    | CH2 SHIELD GROUND              |   |   |
| TB2-20                                    | ANALOG CH3(-)                  |   |   |
| TB2-21                                    | CH3 SHIELD GROUND              |   |   |
| TB2-22                                    | ANALOG CH4(-)                  |   |   |
| TB2-23                                    | CH4 SHIELD GROUND              |   |   |
| TB2-24                                    | ANALOG CH5(-)                  |   |   |
| TB2-25                                    | CH5 SHIELD GROUND              |   |   |
| TB2-26                                    | ANALOG CH6(-)                  |   |   |
| TB2-27                                    | CH6 SHIELD GROUND              |   |   |
| TB2-28                                    | ANALOG CH7(-)                  |   |   |
| TB2-29                                    | CH7 SHIELD GROUND              |   |   |
| TB2-30                                    | N/C                            |   |   |
| <u>TB4 DIGITAL INPUT CONNECTIONS</u>      |                                |   |   |
| TB4-1                                     | DIGITAL INPUT 1                |   |   |
| <u>MAIN LOGIC BOARD</u>                   |                                |   |   |
| <u>TB3 OUTPUT CONNECTIONS</u>             |                                |   |   |
| TB3-1                                     | +12 VDC (OEM USE ONLY)         |   |   |
| TB3-2                                     | +12 VDC (OEM USE ONLY)         |   |   |
| TB3-3                                     | +12 VDC (OEM USE ONLY)         |   |   |
| TB3-4                                     | FUSED BATTERY(+) (42A) (5 AMP) |   |   |
| TB3-5                                     | FUSED BATTERY(+) (42A) (5 AMP) |   |   |
| TB3-6                                     | FUSED BATTERY(+) (42A) (5 AMP) |   |   |
| TB3-7                                     | GROUND                         |   |   |
| TB3-8                                     | GROUND                         |   |   |
| TB3-9                                     | GROUND                         |   |   |
| TB3-10                                    | GROUND                         |   |   |
| TB3-11                                    | GROUND                         |   |   |
| TB3-12                                    | PANEL LAMP OUTPUT              |   |   |
| <u>P1 ENGINE CONNECTIONS</u>              |                                |   |   |
| P1-1                                      | ENGINE CRANK (71)              |   |   |
| P1-2                                      | SHIELD 1 GROUND                |   |   |
| P1-3                                      | ENGINE RUN (70)                |   |   |
| P1-4                                      | ENGINE CRANK (71)              |   |   |
| P1-5                                      | ENGINE BLOCK GROUND (14N)      |   |   |
| P1-6                                      | SHIELD 2 GROUND                |   |   |
| P1-7                                      | ENGINE RUN (70)                |   |   |
| P1-8                                      | BATTERY(+) (14P)               |   |   |
| P1-9                                      | SHIELD GROUND                  |   |   |
| P1-10                                     | LOW COOLANT LEVEL PTC (31A)    |   |   |
| P1-11                                     | N/C                            |   |   |
| P1-12                                     | BATTERY(+) (14P)               |   |   |
| P1-13                                     | MAGNETIC PICKUP INPUT 1        |   |   |
| P1-14                                     | N/C                            |   |   |
| P1-15                                     | N/C                            |   |   |
| P1-16                                     | PWM1(+)                        |   |   |
| P1-17                                     | MAGNETIC PICKUP INPUT 2        |   |   |
| P1-18                                     | N/C                            |   |   |
| P1-19                                     | N/C                            |   |   |
| P1-20                                     | PWM1                           |   |   |
| P1-21                                     | BATTERY(+) SENSE (P)           |   |   |
| P1-22                                     | BATTERY(-) SENSE (N)           |   |   |
| P1-23                                     | PWM2                           |   |   |
| P1-24                                     | PWM2(+)                        |   |   |
| <u>P13 MODEM POWER CONNECTIONS</u>        |                                |   |   |
| P13-1                                     | GROUND                         |   |   |
| P13-2                                     | +5 VD                          |   |   |
| <u>P18 RS232 CONNECTIONS</u>              |                                |   |   |
| P18-1                                     | CD                             |   |   |
| P18-2                                     | RX                             |   |   |
| P18-3                                     | TX                             |   |   |
| P18-4                                     | DIR                            |   |   |
| P18-5                                     | GROUND                         |   |   |
| P18-6                                     | DSR                            |   |   |
| P18-7                                     | RTS                            |   |   |
| P18-8                                     | CTS                            |   |   |
| P18-9                                     | RI                             |   |   |
| <u>P19 FACTORY TEST PORT</u>              |                                |   |   |
| P19-1                                     | GN                             |   |   |
| P19-2                                     | +                              |   |   |
| P19-3                                     | -                              |   |   |
| P19-4                                     | GN                             |   |   |
| P19-5                                     | +                              |   |   |
| P19-6                                     | -                              |   |   |
| <u>P20 RS485 NON-ISOLATED CONNECTIONS</u> |                                |   |   |
| P20-1                                     | GN                             |   |   |
| P20-2                                     | +                              |   |   |
| P20-3                                     | -                              |   |   |
| <u>P21 RS485A ISOLATED CONNECTIONS</u>    |                                |   |   |
| P21-1                                     | GN                             |   |   |
| P21-2                                     | +                              |   |   |
| P21-3                                     | -                              |   |   |
| P21-4                                     | GN                             |   |   |
| P21-5                                     | +                              |   |   |
| P21-6                                     | -                              |   |   |
| <u>P22 J1939 CONNECTIONS</u>              |                                |   |   |
| P22-1                                     | GN                             |   |   |
| P22-2                                     | +                              |   |   |
| P22-3                                     | -                              |   |   |

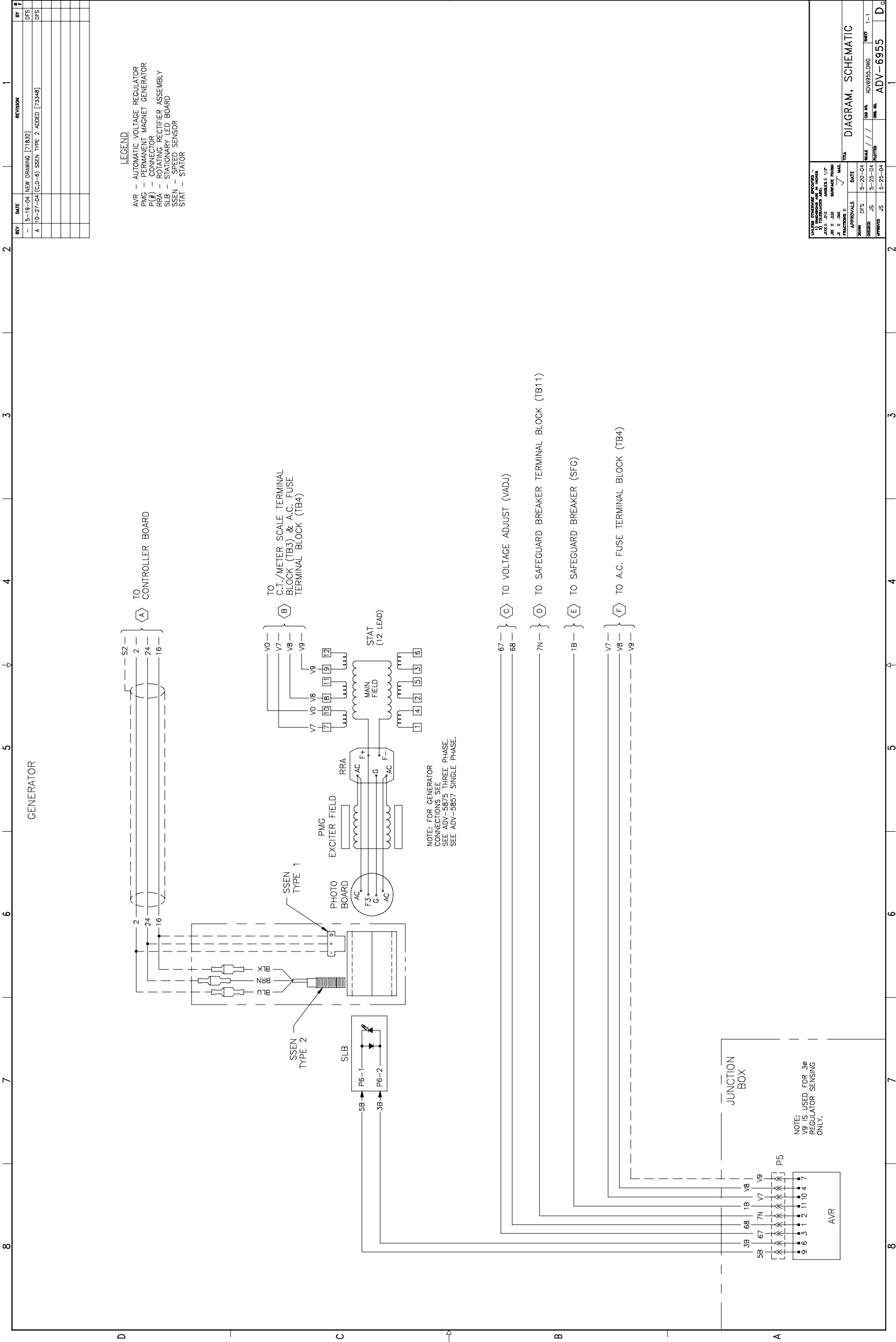
| P23 OUTPUT CONNECTIONS |                   |
|------------------------|-------------------|
| P23-1                  | DIGITAL OUTPUT 29 |
| P23-2                  | DIGITAL OUTPUT 28 |
| P23-3                  | DIGITAL OUTPUT 30 |
| P23-4                  | DIGITAL OUTPUT 31 |
| P23-5                  | GROUND            |
| P23-6                  | DIGITAL OUTPUT 21 |
| P23-7                  | DIGITAL OUTPUT 24 |
| P23-8                  | DIGITAL OUTPUT 22 |
| P23-9                  | FUSED BATTERY (+) |
| P23-10                 | DIGITAL OUTPUT 23 |
| P23-11                 | DIGITAL OUTPUT 25 |
| P23-12                 | DIGITAL OUTPUT 26 |
| P23-13                 | DIGITAL OUTPUT 4  |
| P23-14                 | DIGITAL OUTPUT 14 |
| P23-15                 | DIGITAL OUTPUT 27 |
| P23-16                 | DIGITAL OUTPUT 15 |
| P23-17                 | DIGITAL OUTPUT 5  |
| P23-18                 | N/C               |
| P23-19                 | DIGITAL OUTPUT 20 |
| P23-20                 | DIGITAL OUTPUT 18 |
| P23-21                 | DIGITAL OUTPUT 3  |
| P23-22                 | DIGITAL OUTPUT 16 |
| P23-23                 | DIGITAL OUTPUT 8  |
| P23-24                 | DIGITAL OUTPUT 7  |
| P23-25                 | DIGITAL OUTPUT 1  |
| P23-26                 | N/C               |
| P23-27                 | DIGITAL OUTPUT 9  |
| P23-28                 | DIGITAL OUTPUT 17 |
| P23-29                 | DIGITAL OUTPUT 6  |
| P23-30                 | N/C               |
| P23-31                 | DIGITAL OUTPUT 11 |
| P23-32                 | DIGITAL OUTPUT 19 |
| P23-33                 | DIGITAL OUTPUT 12 |
| P23-34                 | DIGITAL OUTPUT 10 |
| P23-35                 | DIGITAL OUTPUT 2  |
| P23-36                 | DIGITAL OUTPUT 13 |











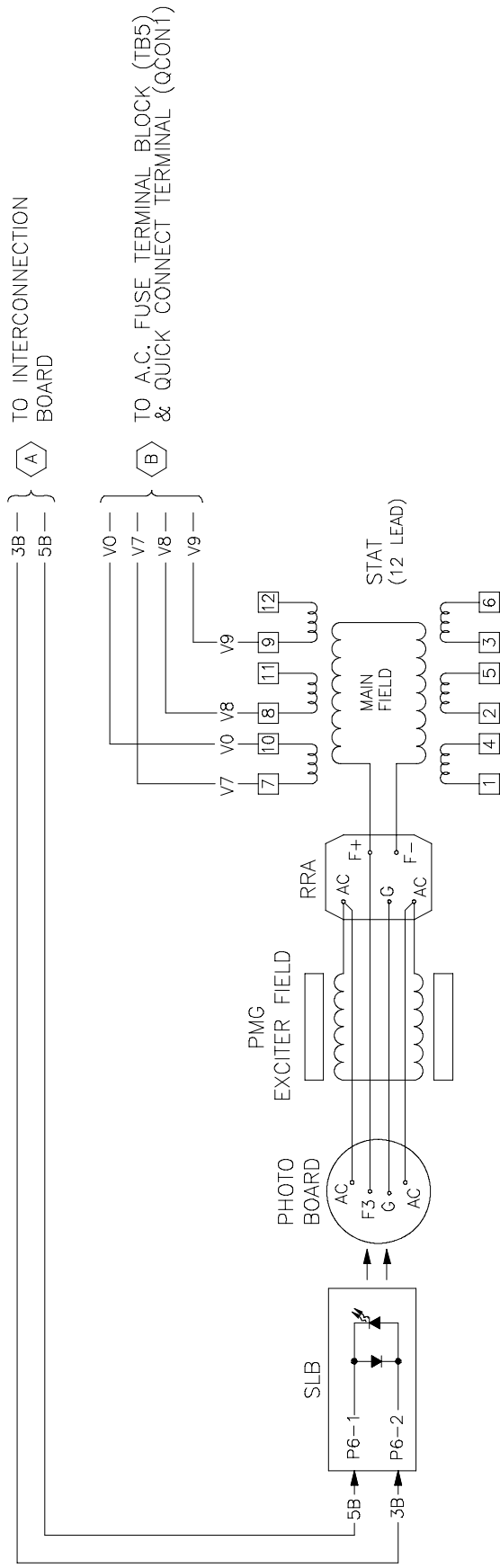


| REV | DATE    | REVISION             | BY  | FILE |
|-----|---------|----------------------|-----|------|
| -   | 5-19-04 | NEW DRAWING [718.32] | DJS |      |
|     |         |                      |     |      |
|     |         |                      |     |      |
|     |         |                      |     |      |
|     |         |                      |     |      |
|     |         |                      |     |      |

# GENERATOR

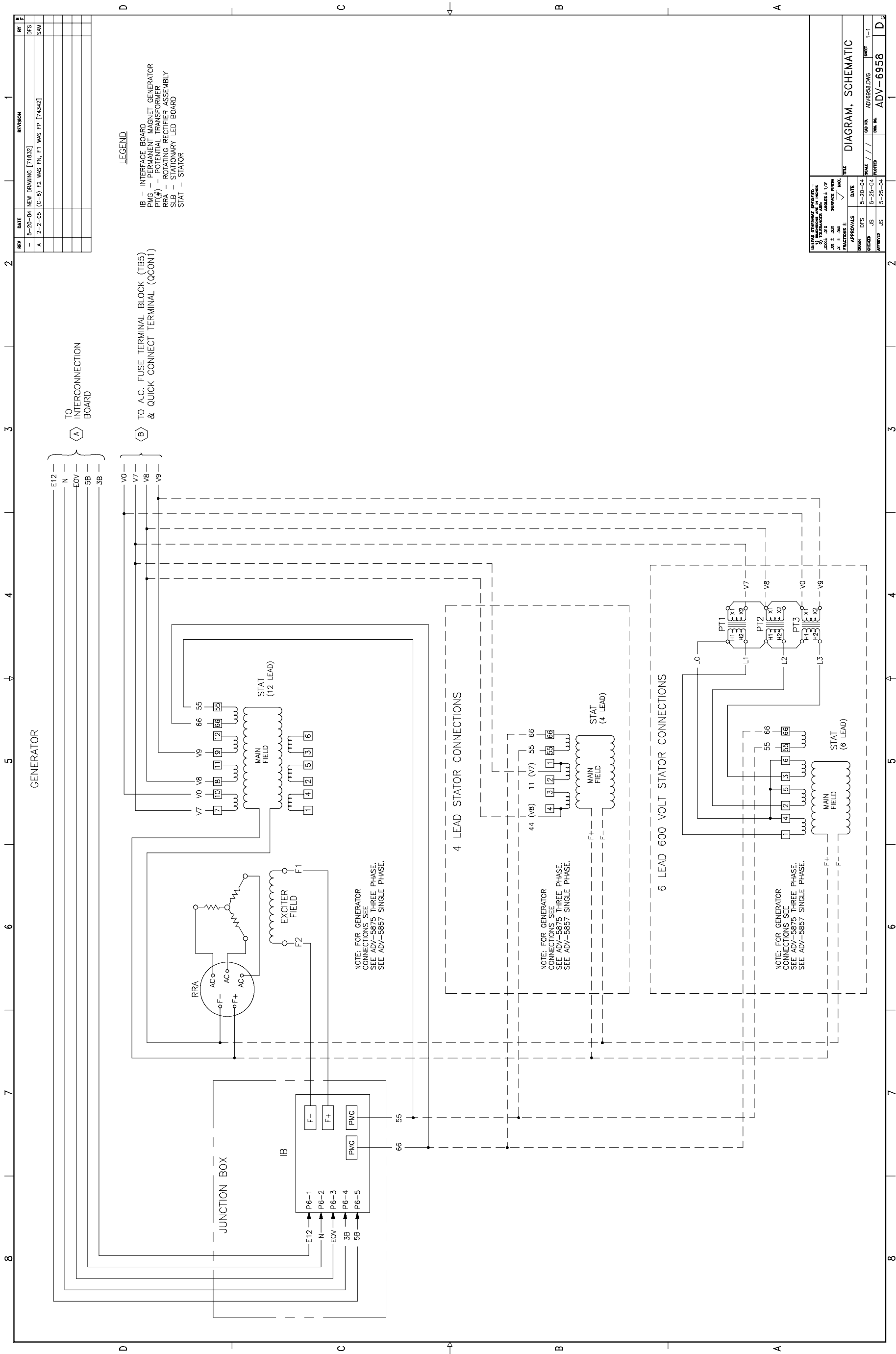
### LEGEND

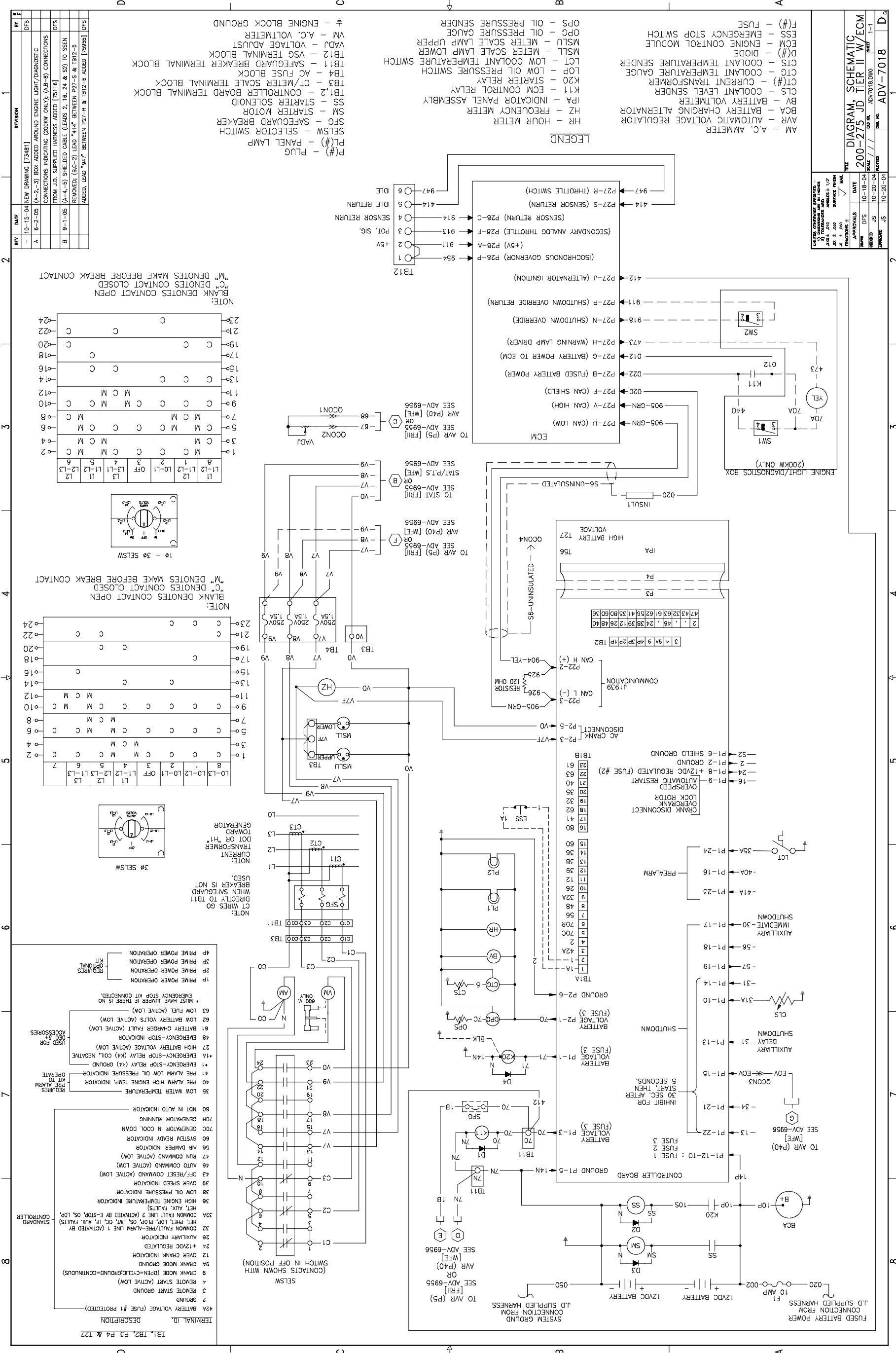
PMG – PERMANENT MAGNET GENERATOR  
RRA – ROTATING RECTIFIER ASSEMBLY  
SLB – STATIONARY LED BOARD  
STAT – STATOR



NOTE: FOR GENERATOR CONNECTIONS SEE SEE ADV-5875 THREE PHASE. SEE ADV-5857 SINGLE PHASE.

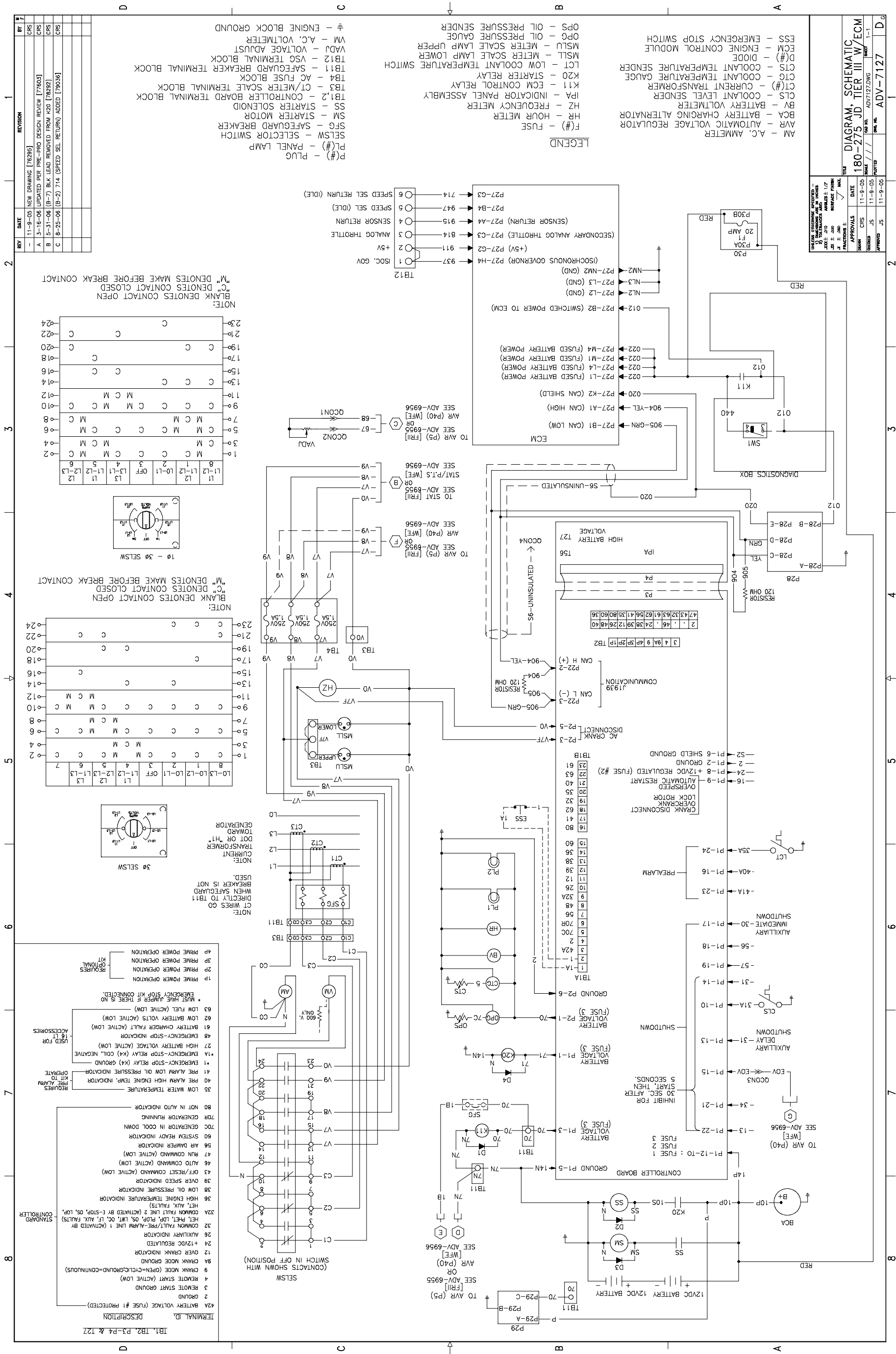
|                                                                                                                                                                                                                                                              |           |                     |         |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|---------|--------------|
| <div>UNLESS OTHERWISE SPECIFIED -</div> <div>1) DIMENSIONS ARE IN INCHES</div> <div>2) TOLERANCES ARE:</div> <div>ANGLES ± 1/2°</div> <div>SURFACE FINISH</div> <div>.XX ± .030</div> <div>.XXX ± .010</div> <div>X ± .060</div> <div>FRACTIONS ± 1/16</div> | ✓ MAX.    |                     | TITLE   |              |
|                                                                                                                                                                                                                                                              | APPROVALS |                     | DATE    |              |
|                                                                                                                                                                                                                                                              | DRAWN     | DFS                 | 5-19-04 |              |
|                                                                                                                                                                                                                                                              | CHECKED   | JS                  | 5-23-04 |              |
|                                                                                                                                                                                                                                                              | APPROVED  | JS                  | 5-25-04 |              |
| SCALE<br>PLOTTED                                                                                                                                                                                                                                             |           | CAD NO.<br>DWG. NO. |         | SHEET<br>1-1 |
| ADV-6957                                                                                                                                                                                                                                                     |           |                     |         | C            |

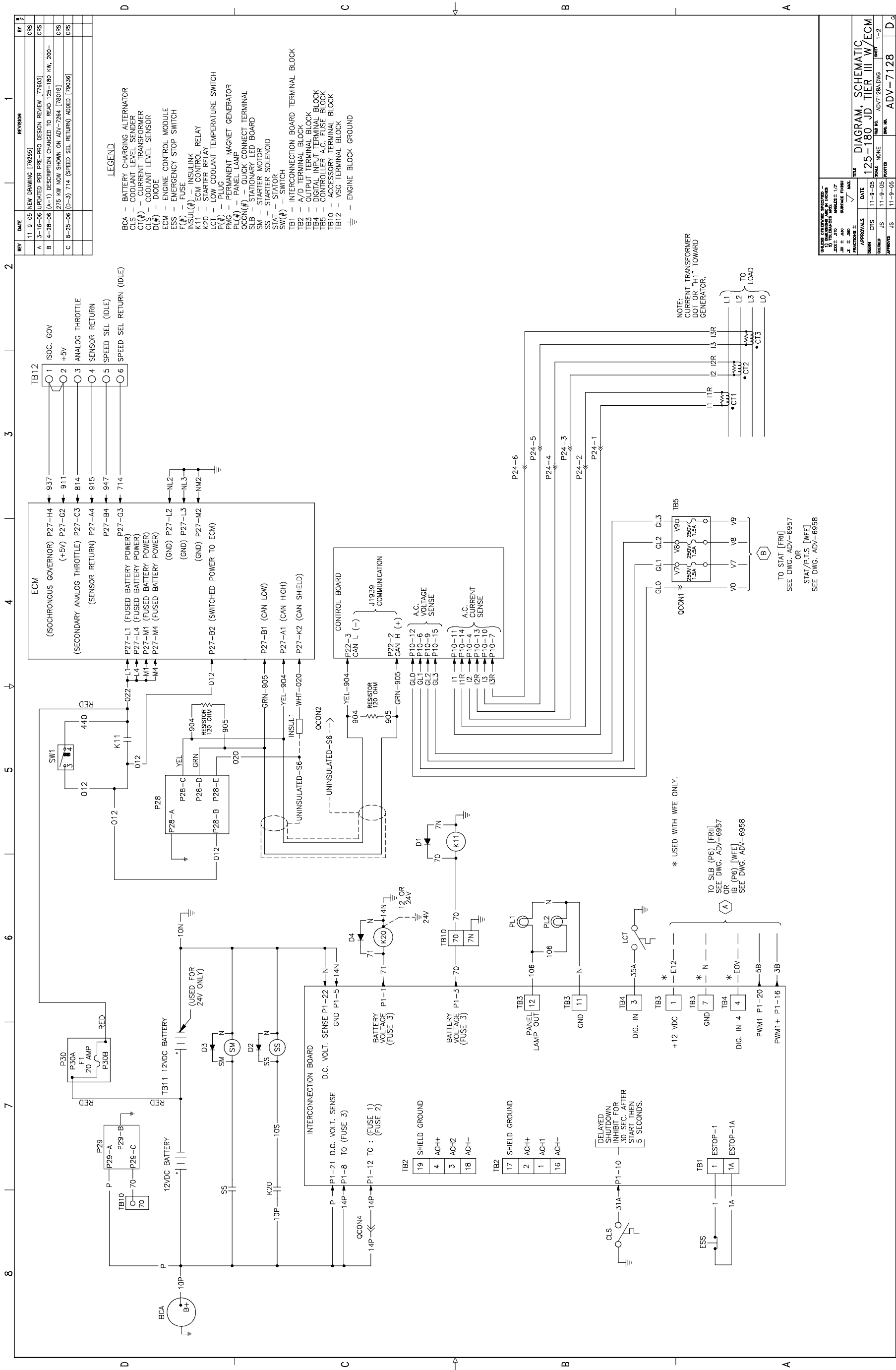


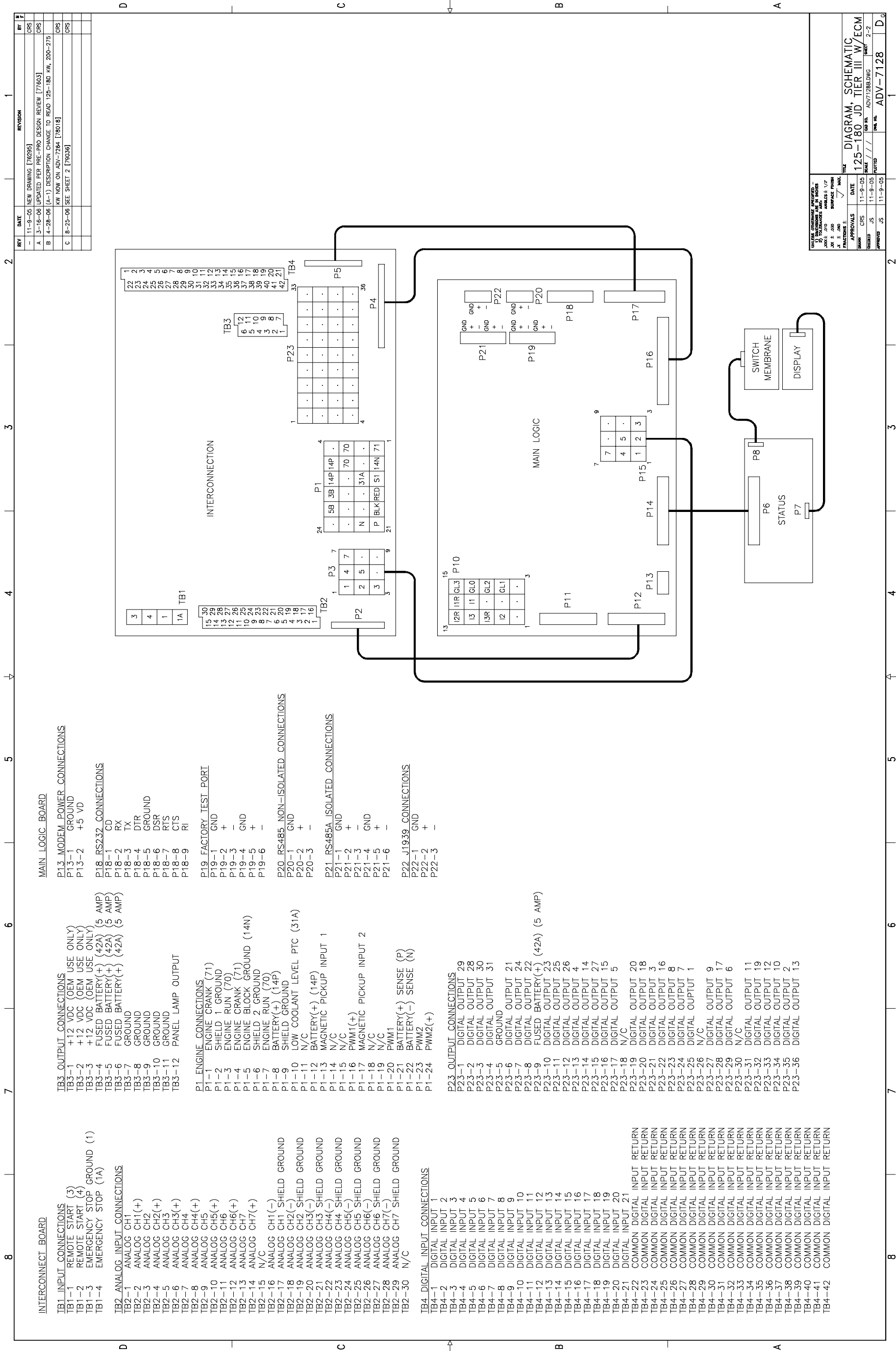


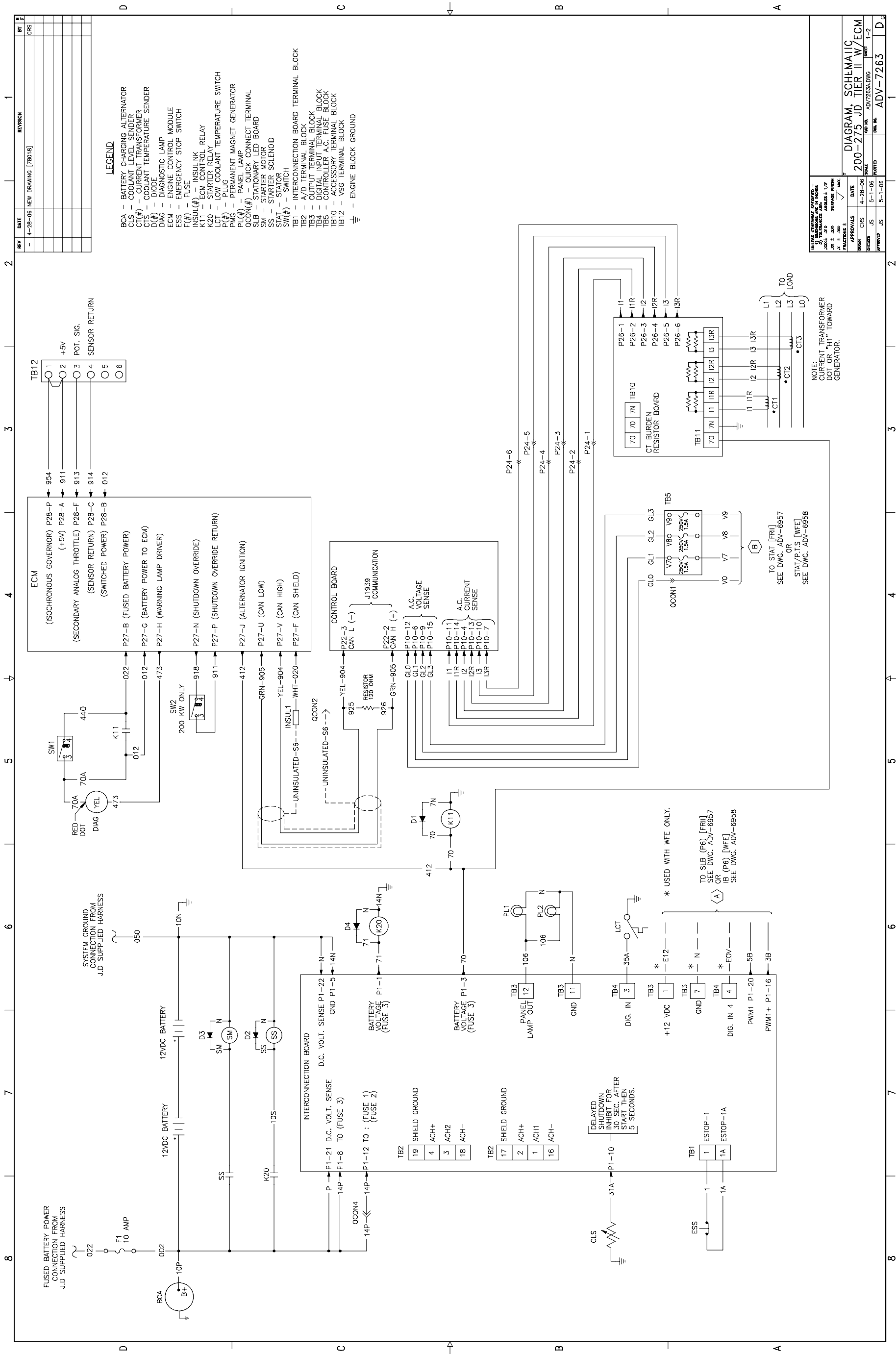


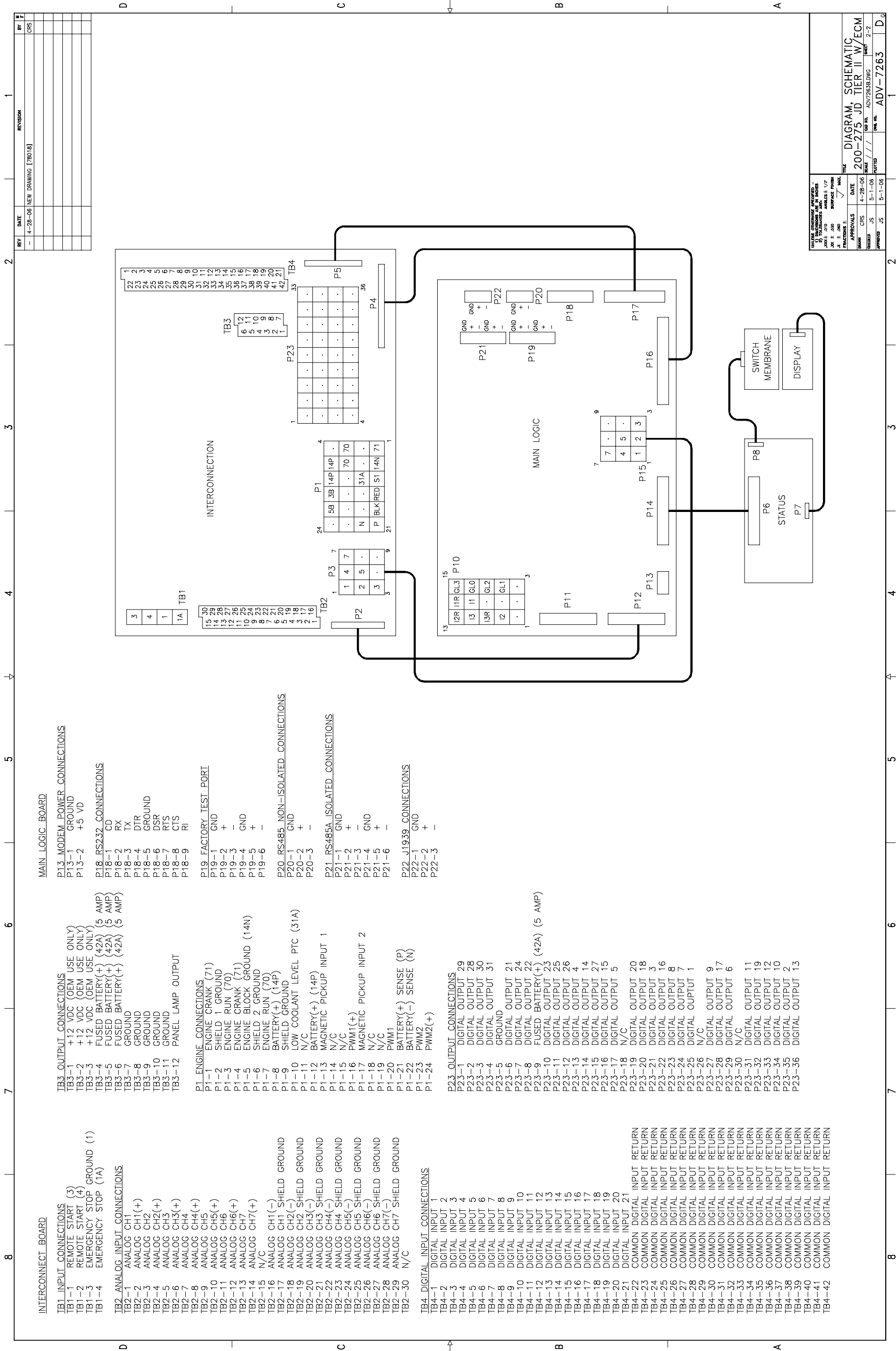


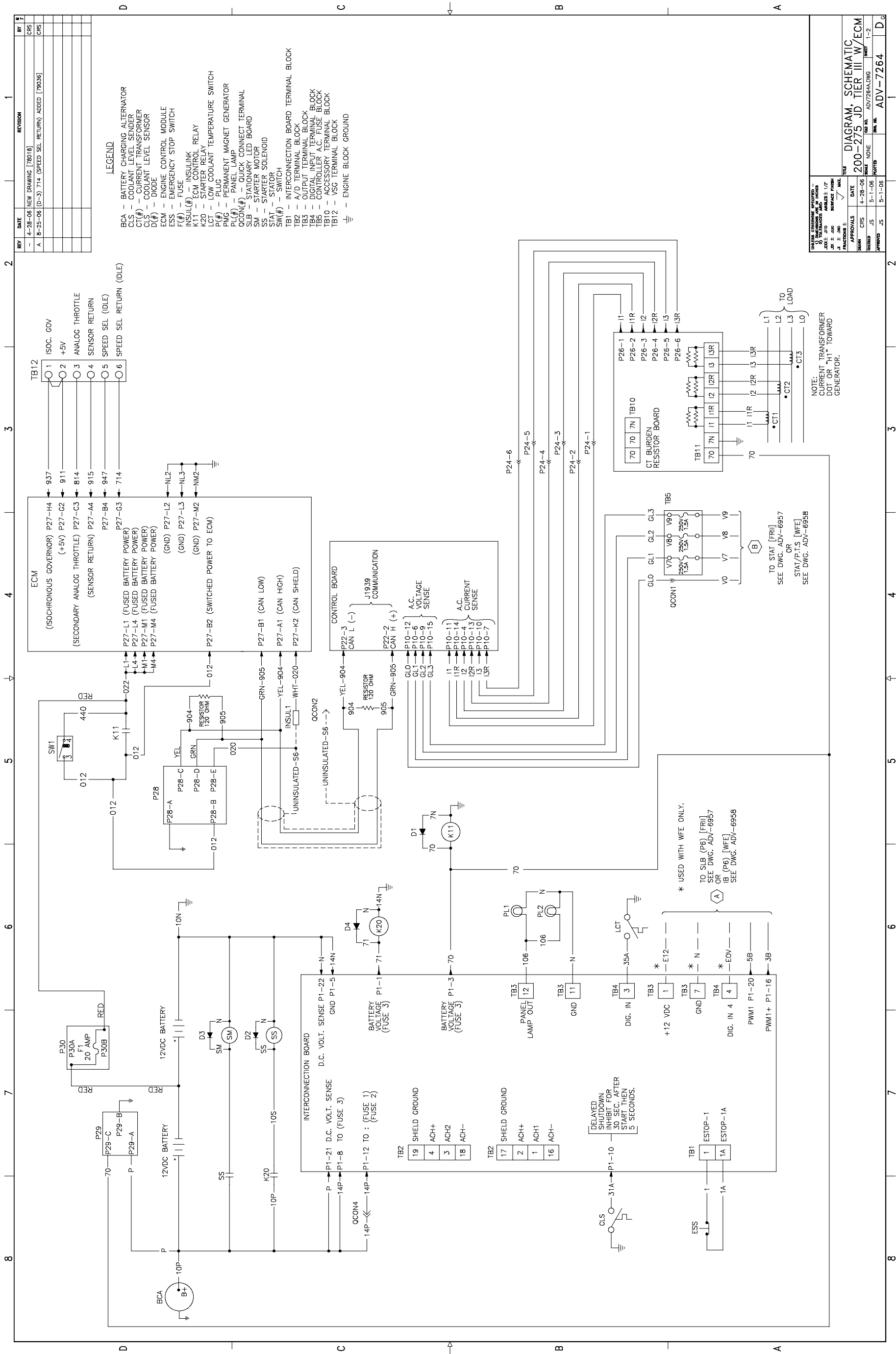


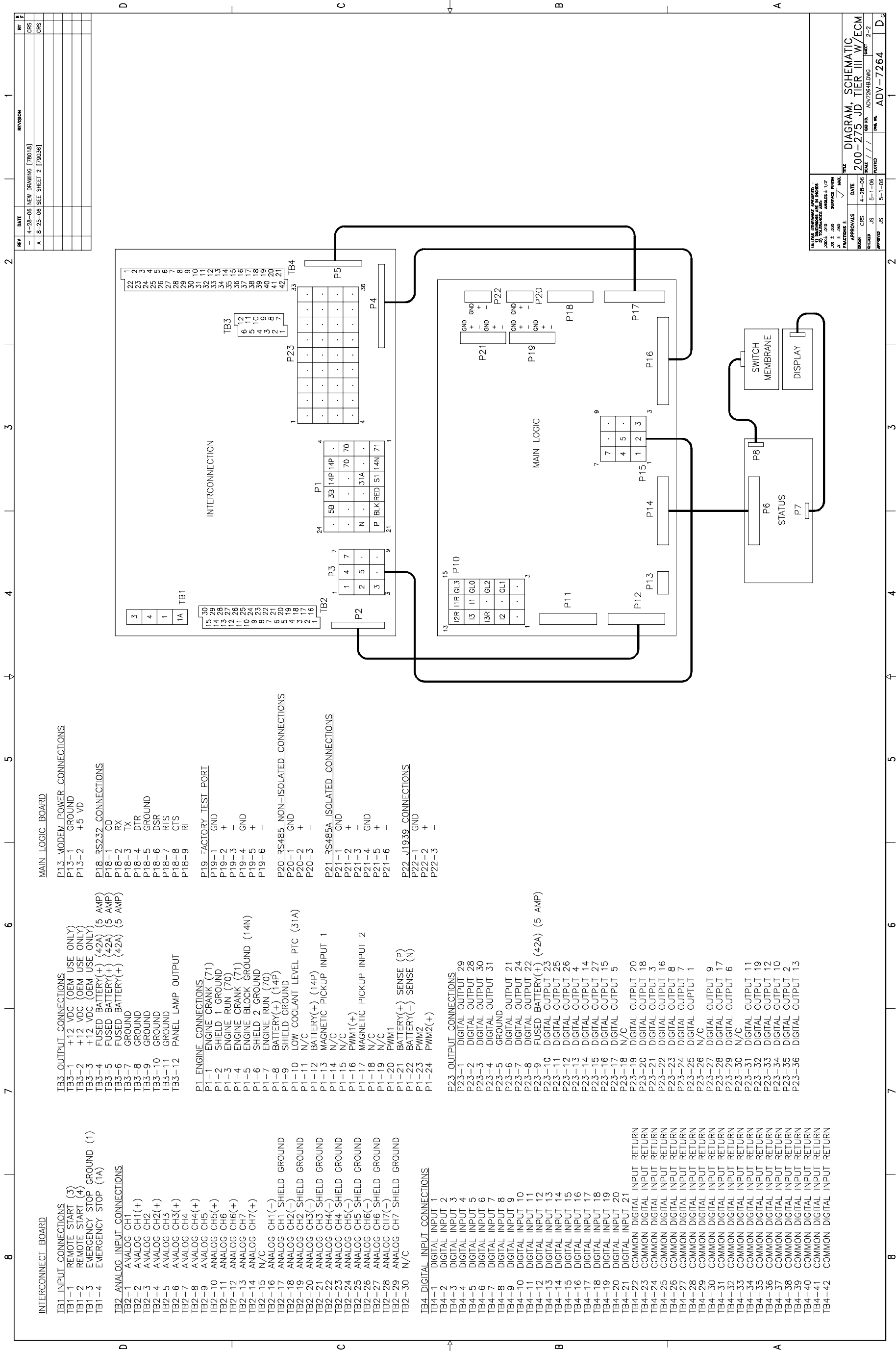


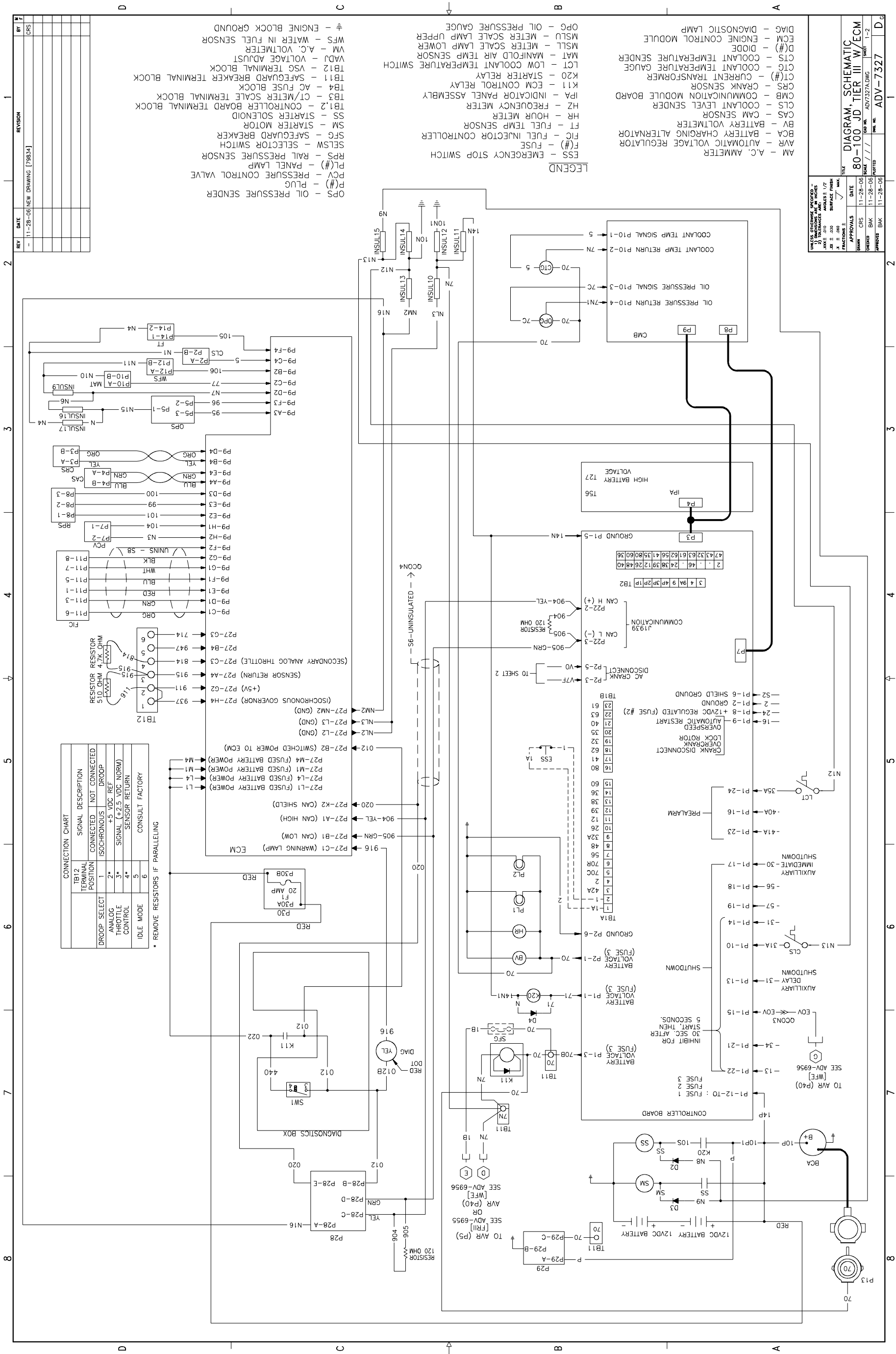


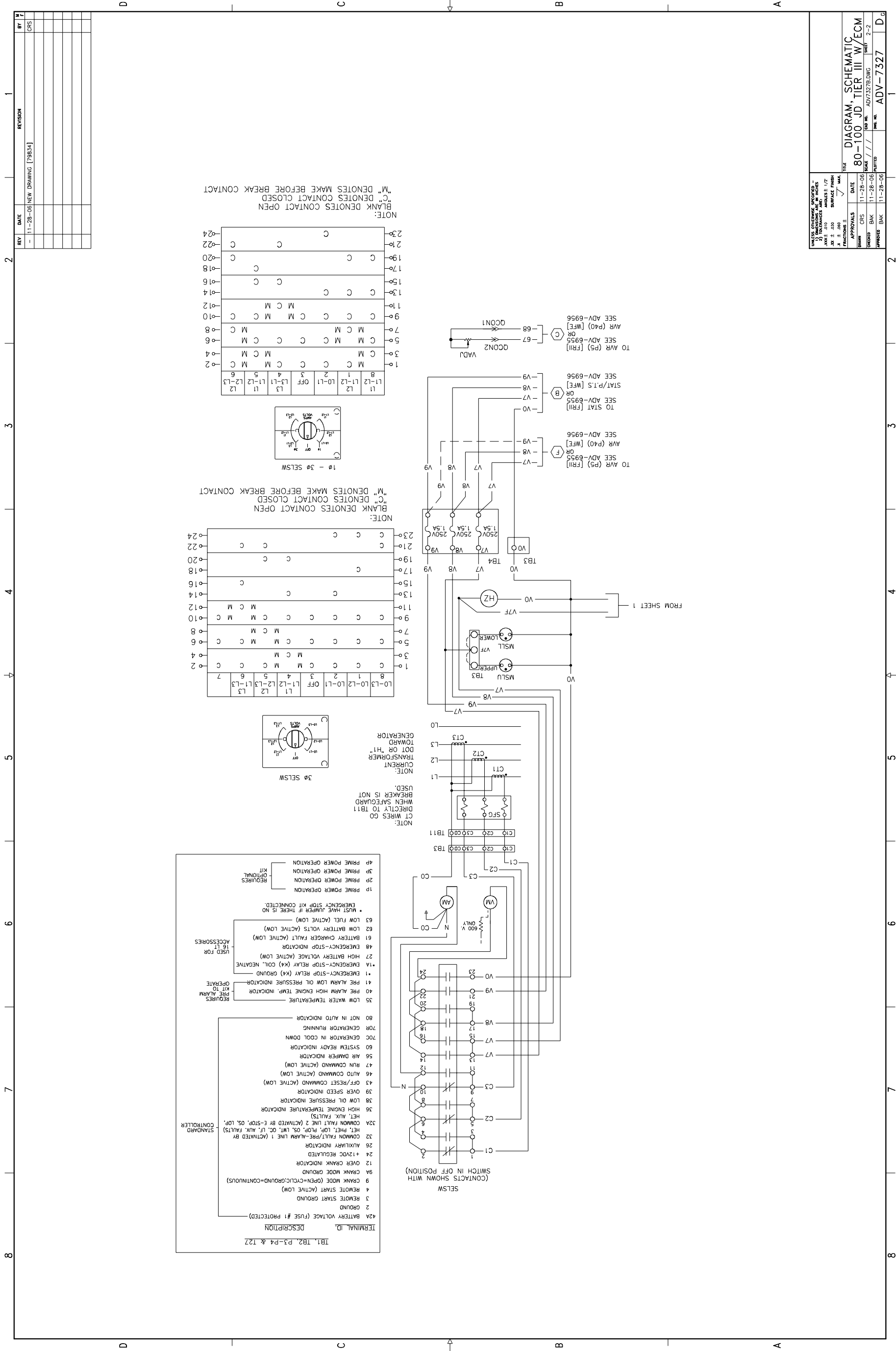




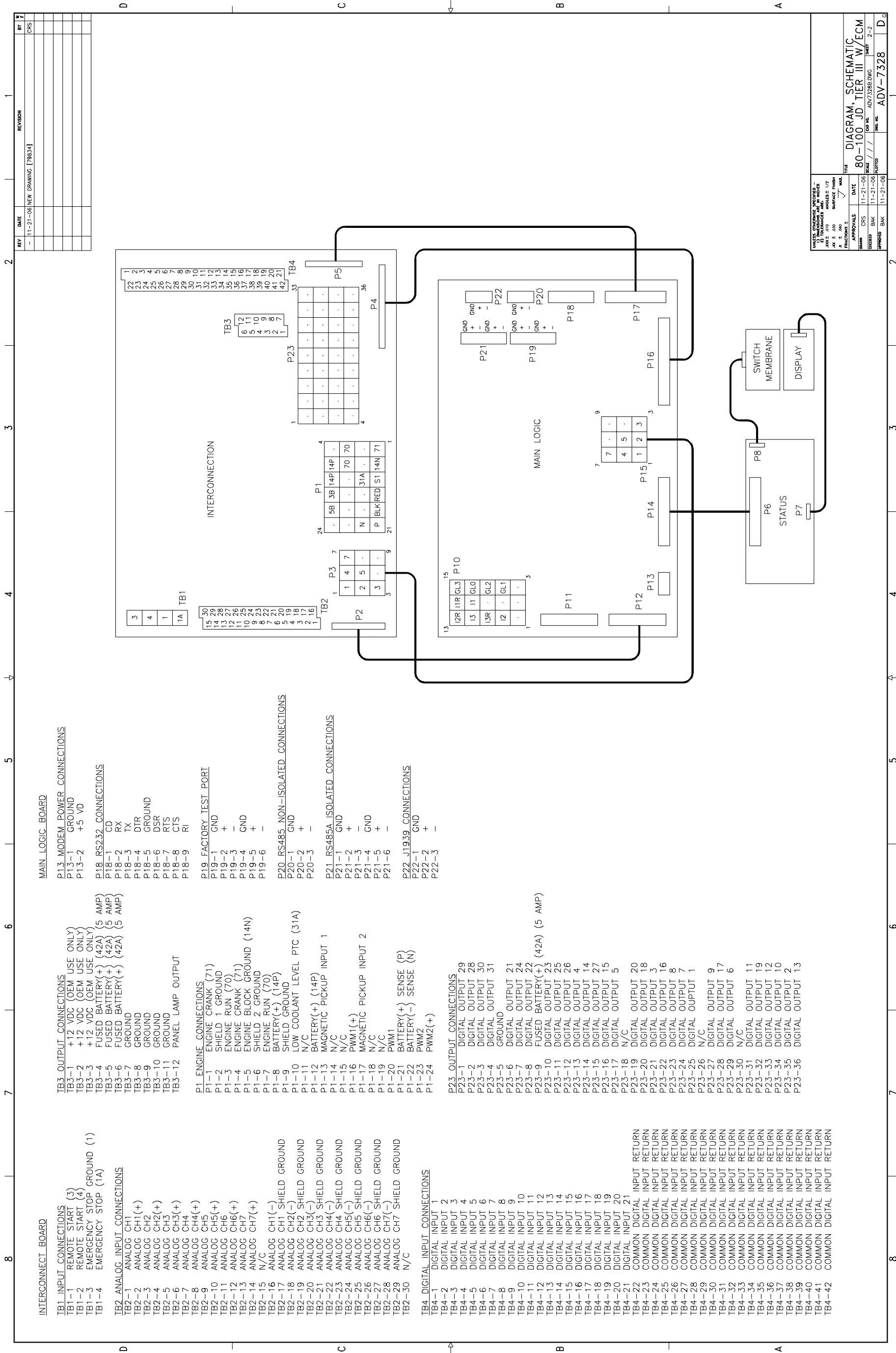


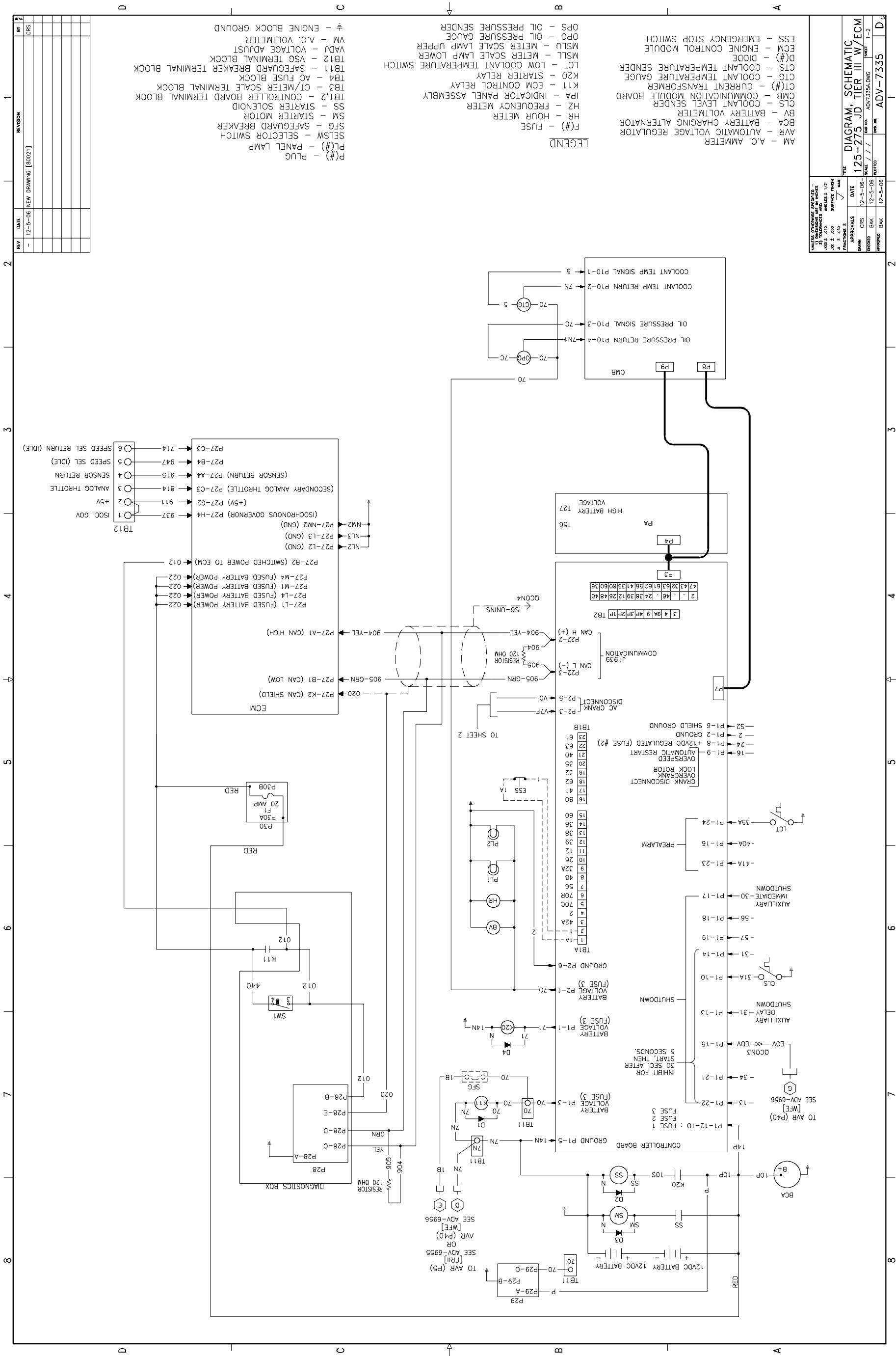


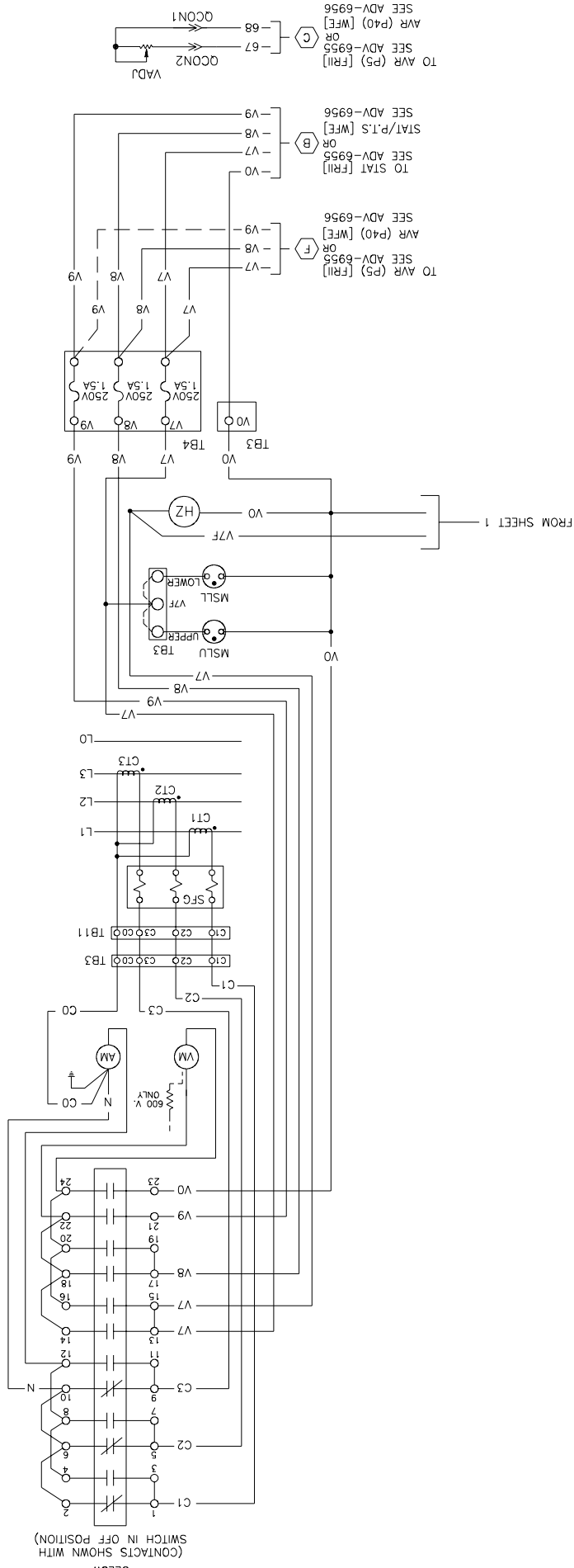
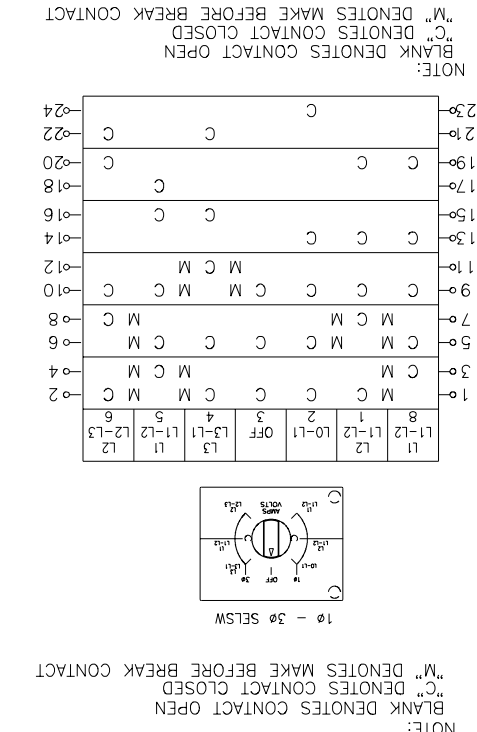
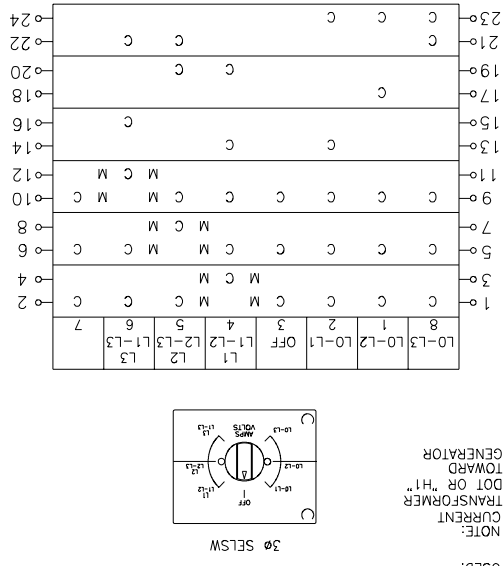
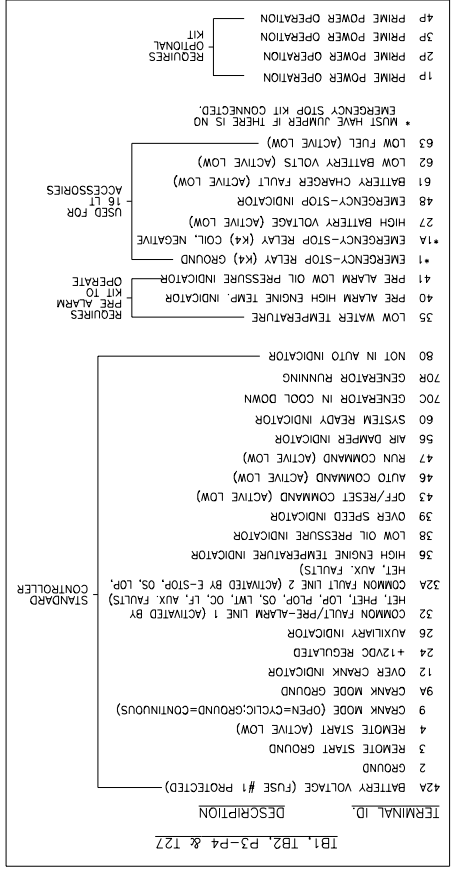




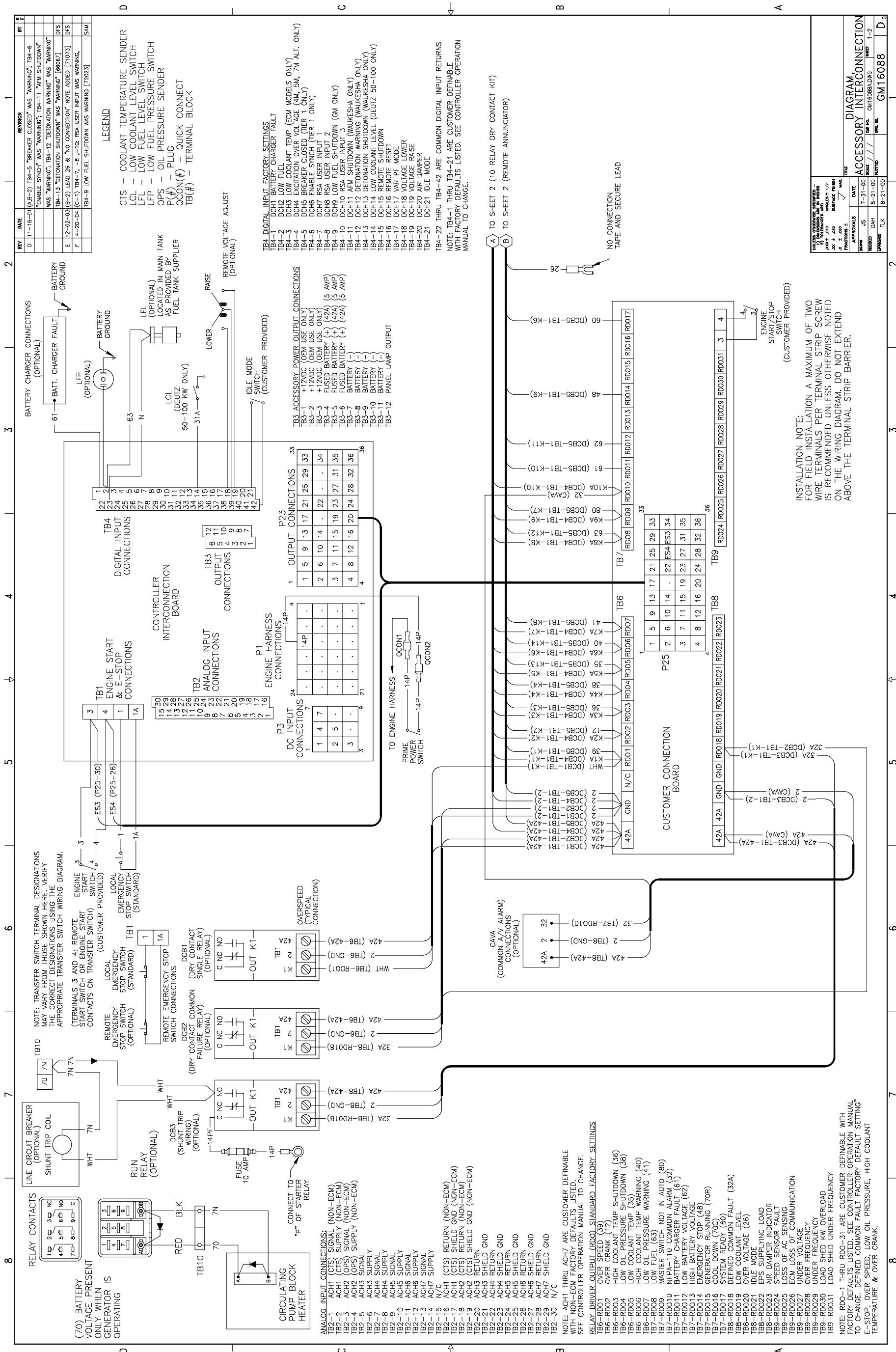




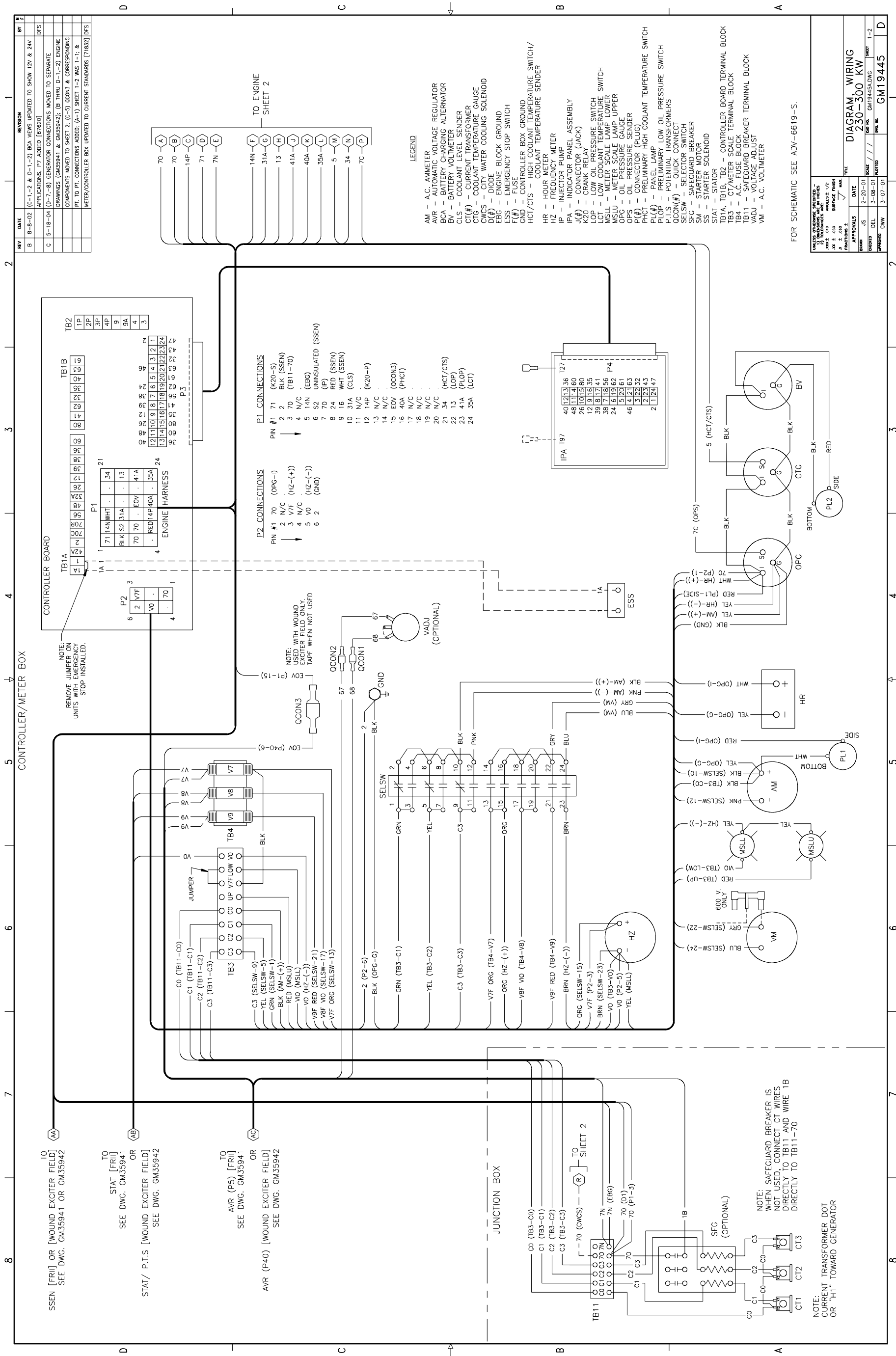


[illegible]

|                                                                                                                                                           |      |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|
| UNLESS OTHERWISE SPECIFIED -<br>1) DIMENSIONS IN INCHES<br>2) TOLERANCES ARE:<br>XXX.X ± .010 ANGLES ± 1/2°<br>XX ± .030 SURFACE FINISH<br>XXX ± .010 MAX | DATE | TITLE                 |
| APPROVALS                                                                                                                                                 | DATE | DIAGRAM, SCHEMATIC    |
| DESIGNED                                                                                                                                                  | CRS  | 125-275 J3            |
| DRAWN                                                                                                                                                     | BAK  | TIER III W/ ECM       |
| APPROVED                                                                                                                                                  | BAK  | SCALE 1/1             |
|                                                                                                                                                           |      | CAD NO. ADV1335B.DWG. |
|                                                                                                                                                           |      | DWG. NO.              |
|                                                                                                                                                           |      | PLOTTED               |
|                                                                                                                                                           |      | SHEET 2-2             |
|                                                                                                                                                           |      | ADV-7335              |
|                                                                                                                                                           |      | D6                    |



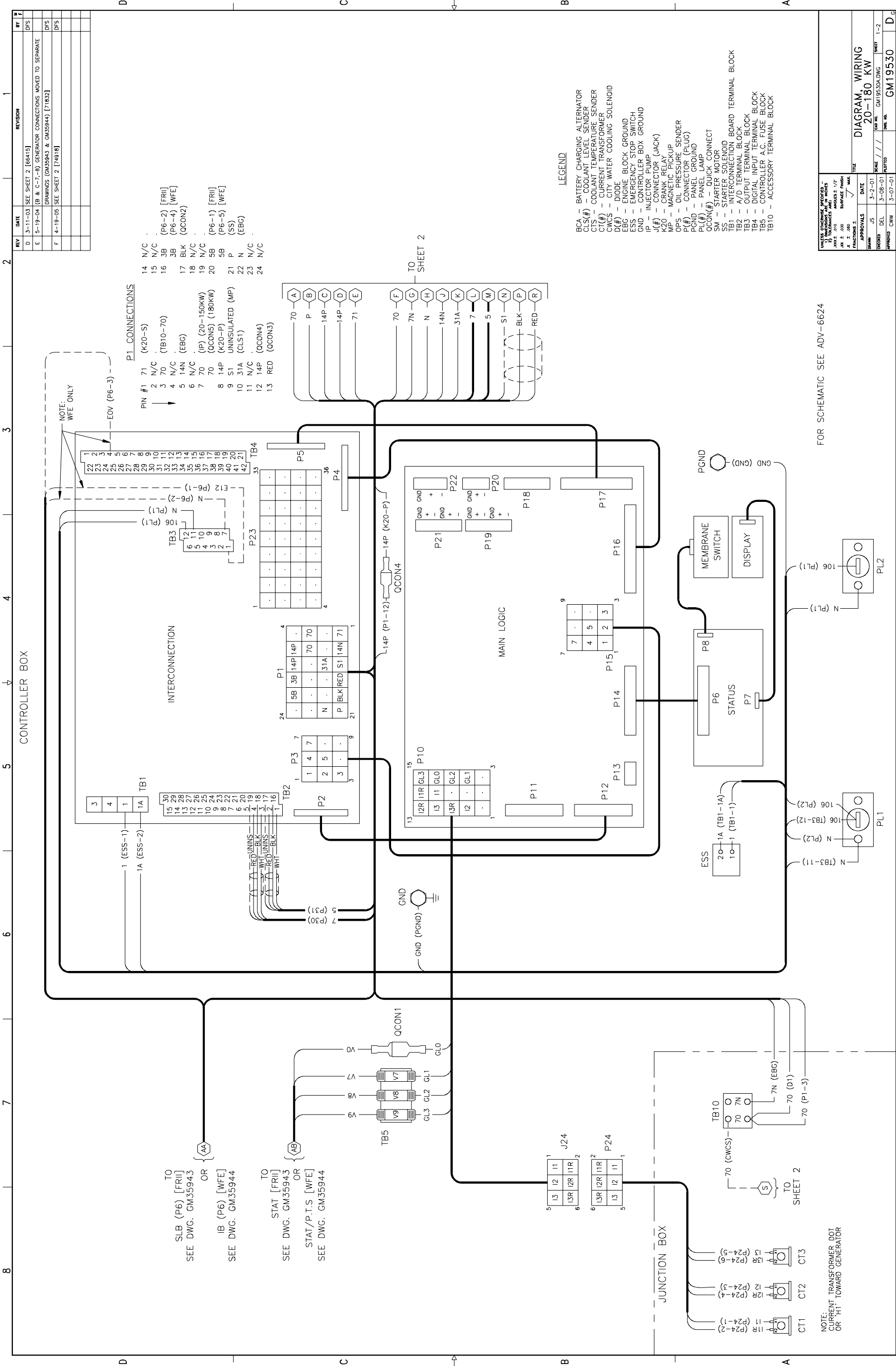






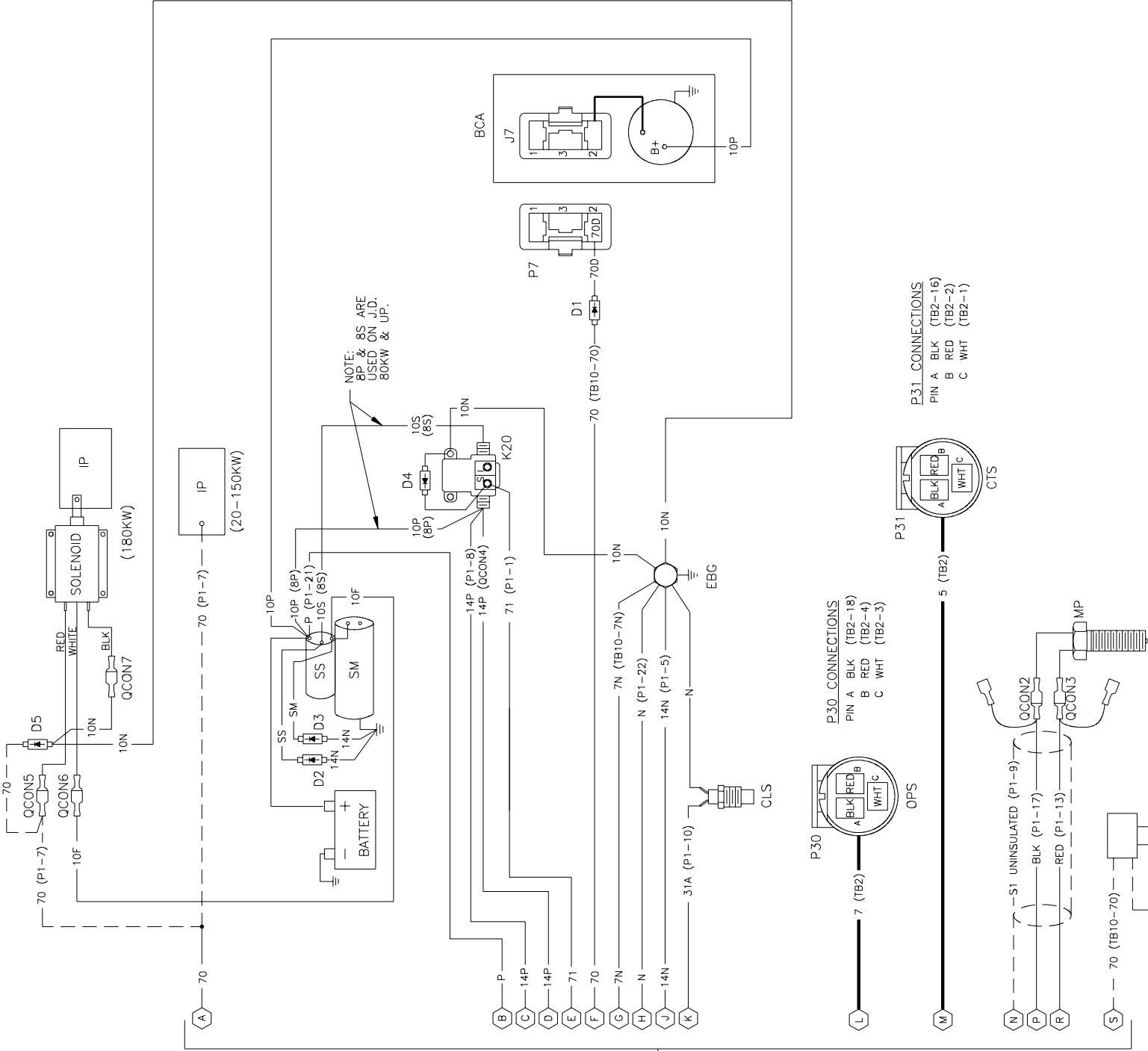




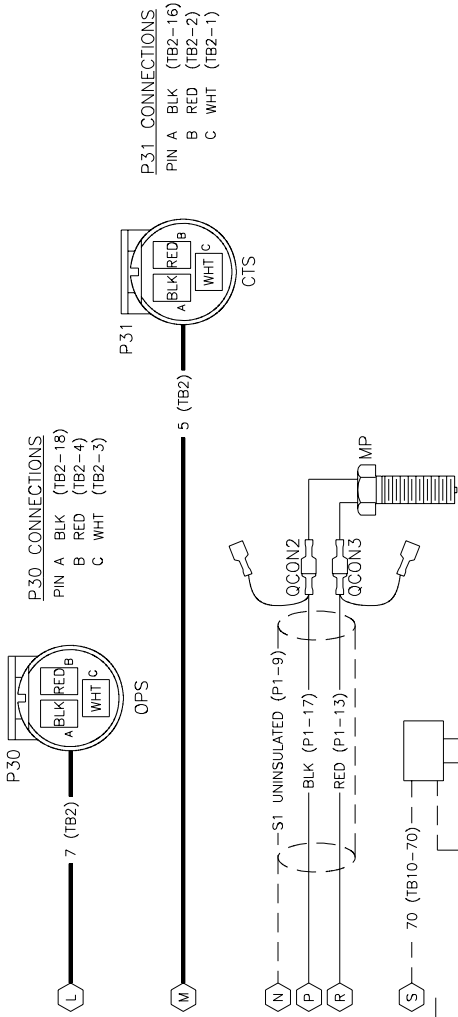


| REV | DATE    | REVISION                                                 | BY  |
|-----|---------|----------------------------------------------------------|-----|
| D   | 3-11-03 | (B,C-3) GENERIC BCA VIEW ADDED. LEAD "10N"               |     |
| E   | 5-19-04 | BETWEEN BCA & EBG REMOVED [66415]                        | DPS |
| F   | 4-19-05 | SEE SHEET 1 [71932]                                      | DPS |
|     |         | (D-4,-5) 180KW FUEL SOLENOID & INJECTOR PUMP CONNECTIONS |     |
|     |         | ADDED [74818]                                            | DPS |
|     |         |                                                          |     |
|     |         |                                                          |     |

ENGINE



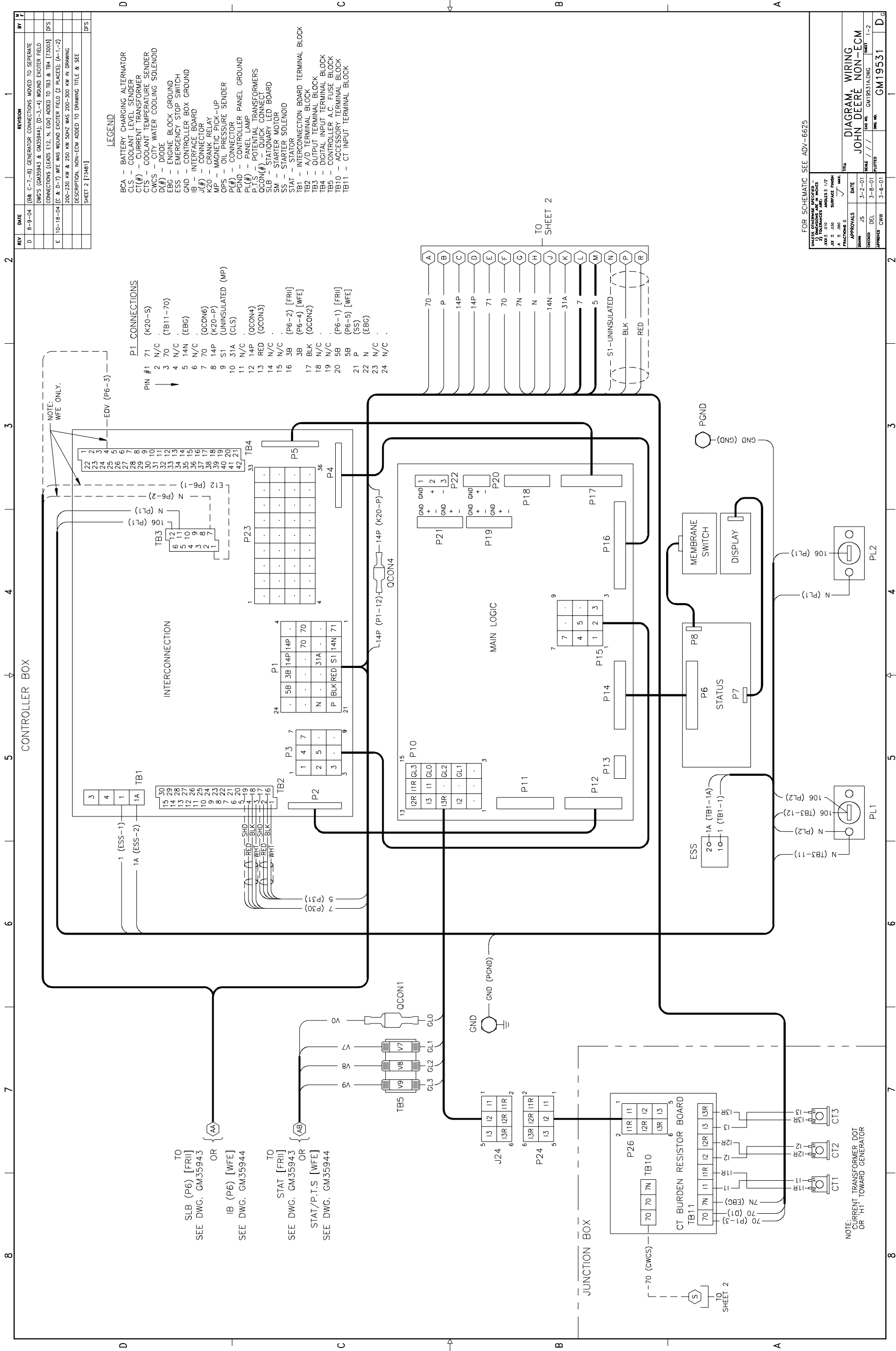
TO SHEET 1



| UNIT | DATE    | REVISION                                                 | BY  |
|------|---------|----------------------------------------------------------|-----|
| D    | 3-11-03 | (B,C-3) GENERIC BCA VIEW ADDED. LEAD "10N"               |     |
| E    | 5-19-04 | BETWEEN BCA & EBG REMOVED [66415]                        | DPS |
| F    | 4-19-05 | SEE SHEET 1 [71932]                                      | DPS |
|      |         | (D-4,-5) 180KW FUEL SOLENOID & INJECTOR PUMP CONNECTIONS |     |
|      |         | ADDED [74818]                                            | DPS |
|      |         |                                                          |     |
|      |         |                                                          |     |

DIAGRAM, WIRING  
20-180 KW

| REV | DATE    | REVISION                                                 | BY  |
|-----|---------|----------------------------------------------------------|-----|
| D   | 3-11-03 | (B,C-3) GENERIC BCA VIEW ADDED. LEAD "10N"               |     |
| E   | 5-19-04 | BETWEEN BCA & EBG REMOVED [66415]                        | DPS |
| F   | 4-19-05 | SEE SHEET 1 [71932]                                      | DPS |
|     |         | (D-4,-5) 180KW FUEL SOLENOID & INJECTOR PUMP CONNECTIONS |     |
|     |         | ADDED [74818]                                            | DPS |
|     |         |                                                          |     |
|     |         |                                                          |     |

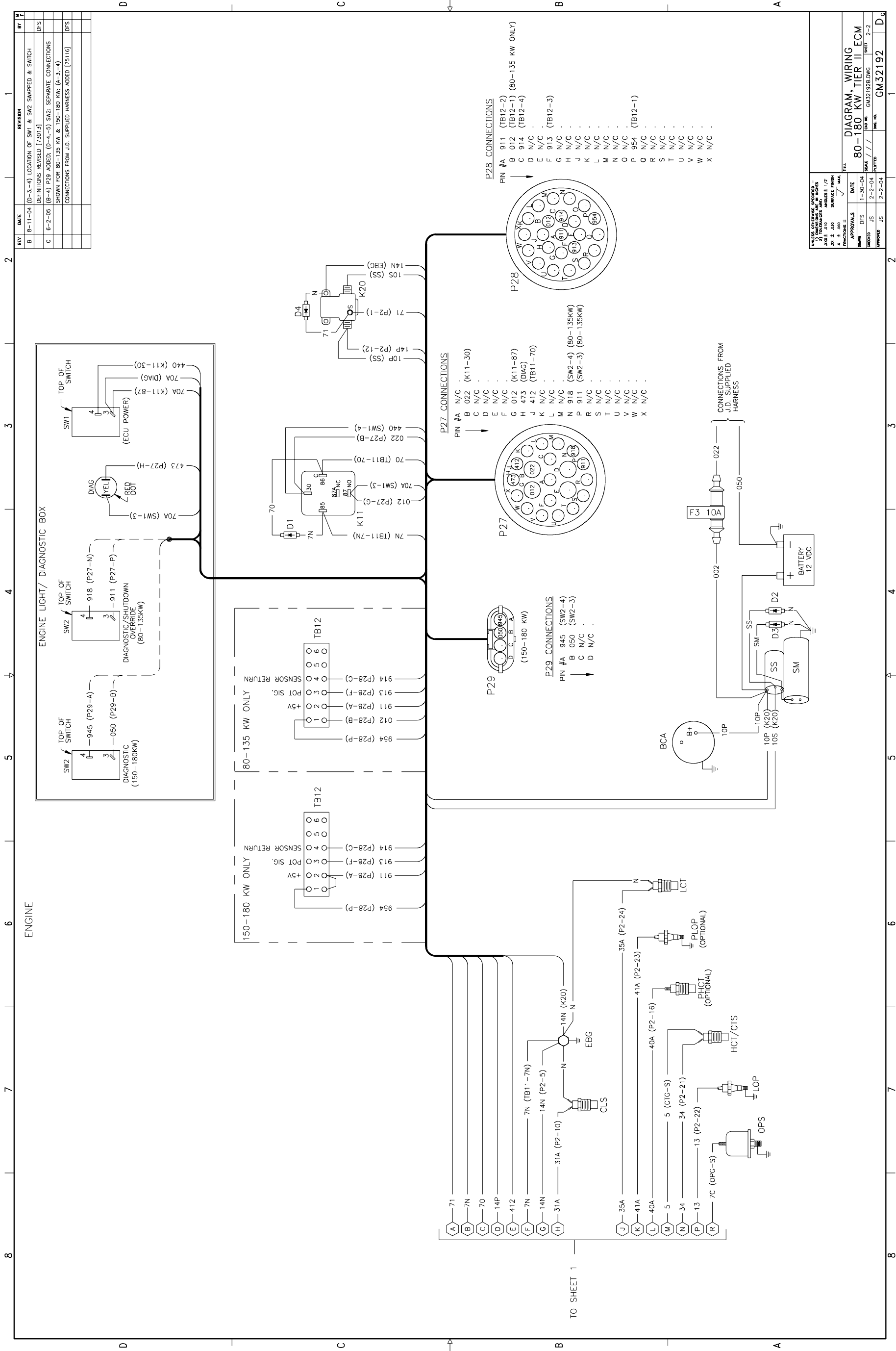


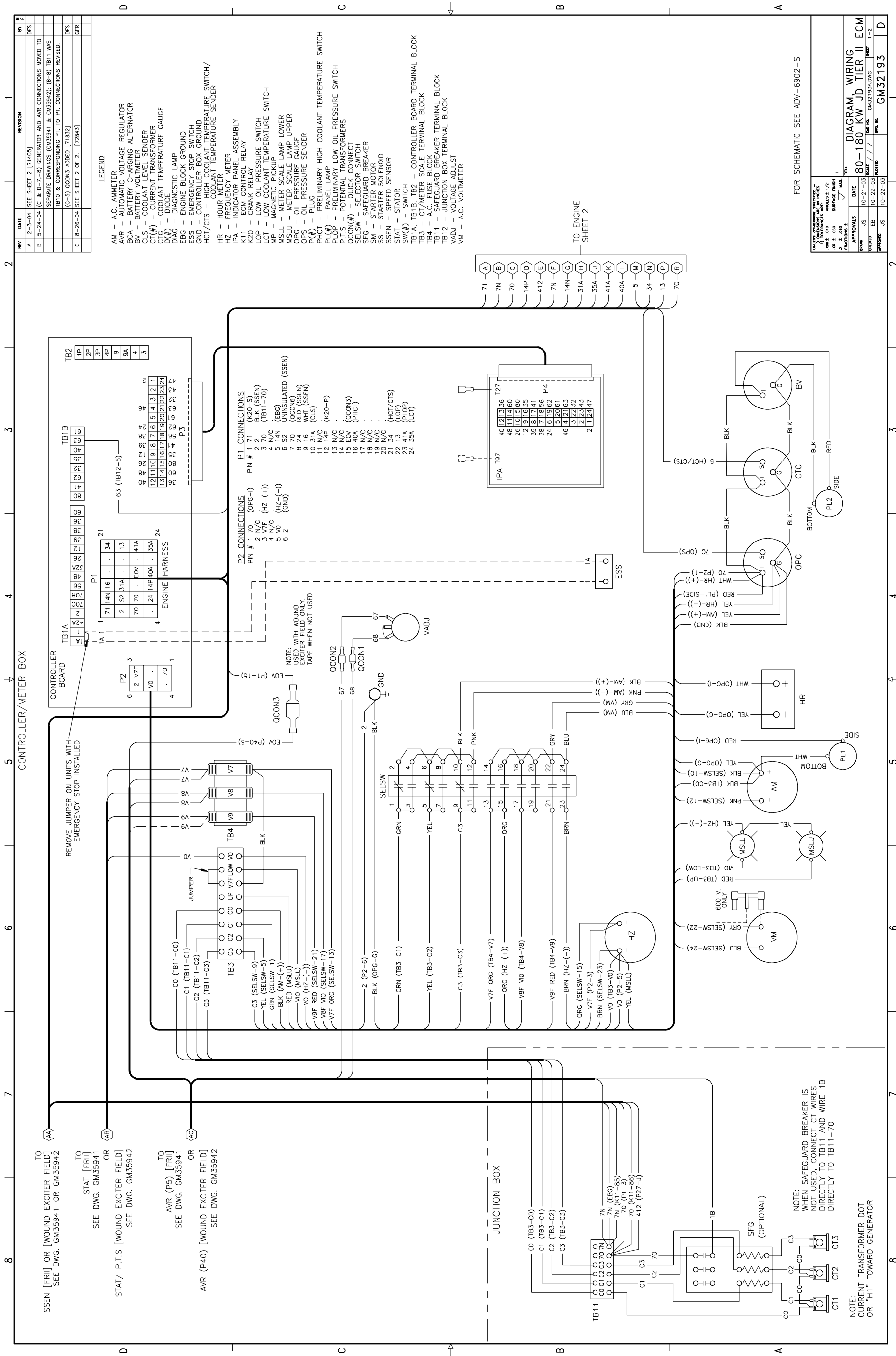
















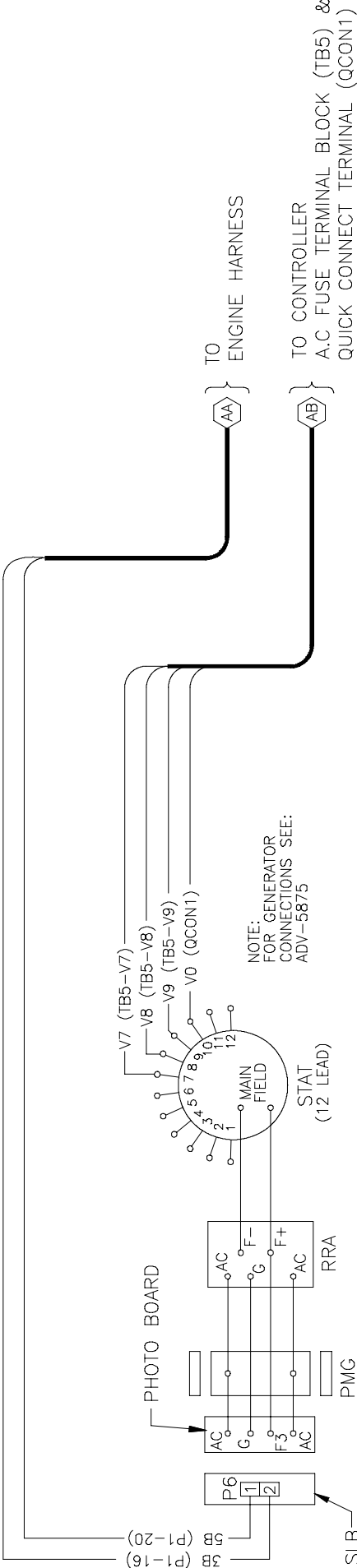


GENERATOR

| REV | DATE           | REVISION                           | BY  | IN |
|-----|----------------|------------------------------------|-----|----|
| -   | 4-30-04        | NEW DRAWING [71832]                | DFS |    |
| A   | 12-10-04 (A-1) | "FOR SCHEMATIC" NOTE ADDED [73930] | DFS |    |
| B   | 9-25-06 (B-3)  | ADV-5857 REMOVED [79376]           | CRS |    |
|     |                |                                    |     |    |
|     |                |                                    |     |    |
|     |                |                                    |     |    |
|     |                |                                    |     |    |

LEGEND

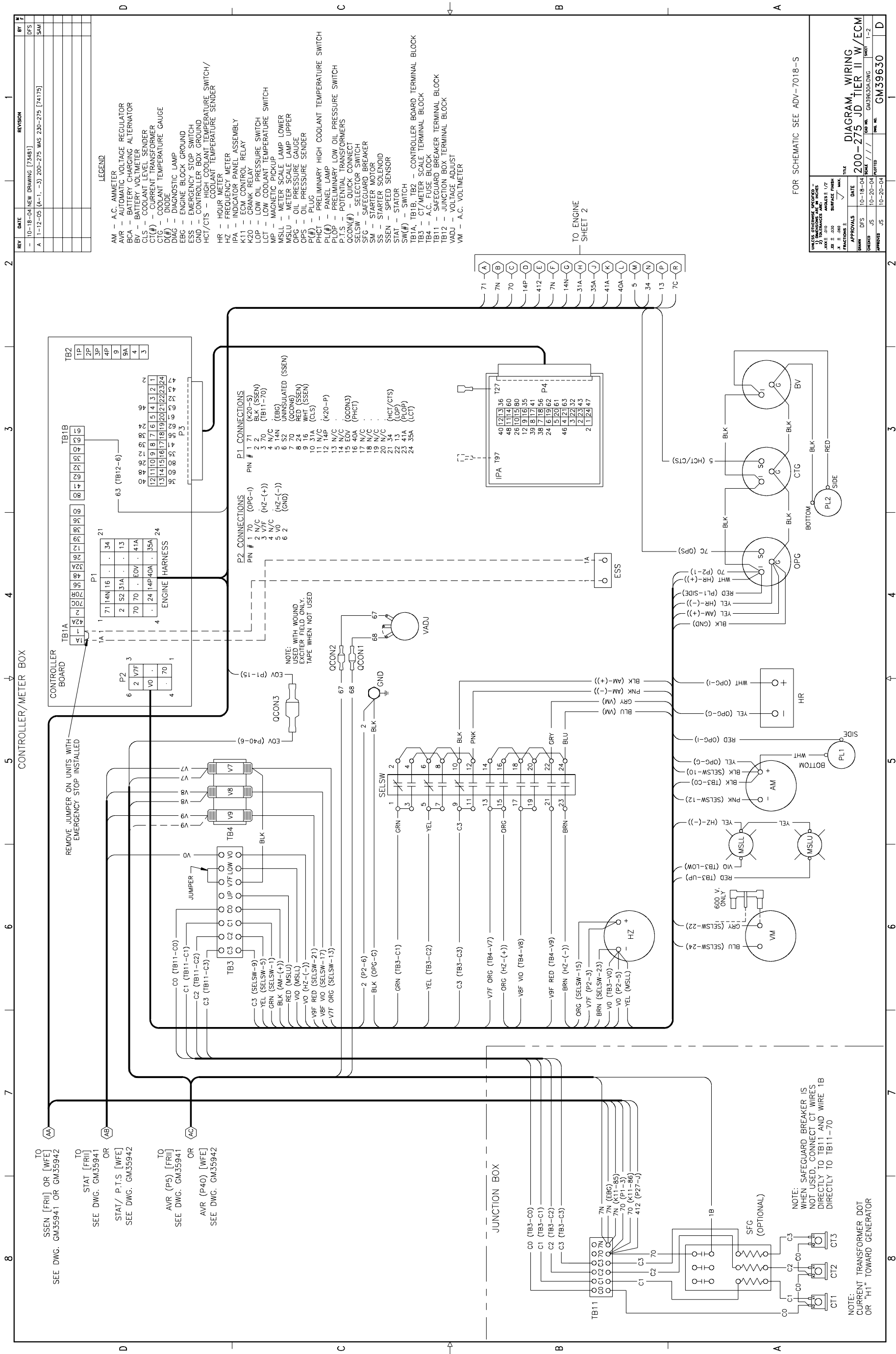
- P(#)- PLUG
- PMG - PERMANENT MAGNET GENERATOR
- RRA - ROTATING RECTIFIER ASSEMBLY
- SLB - STATIONARY LIGHT EMITTING DIODE BOARD
- STAT - STATOR



FOR SCHEMATIC SEE ADV-6957.

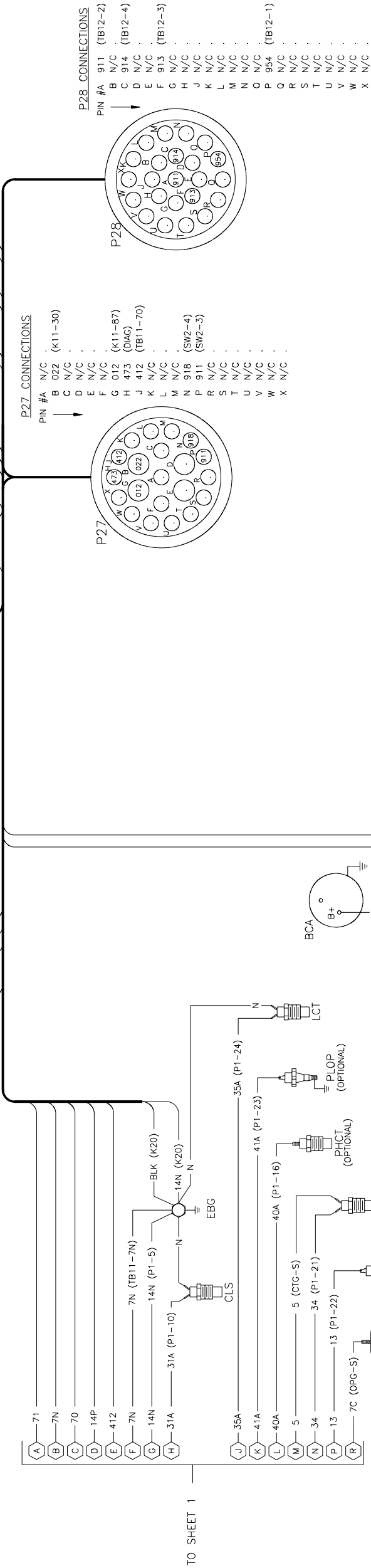
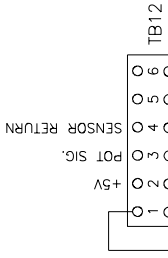
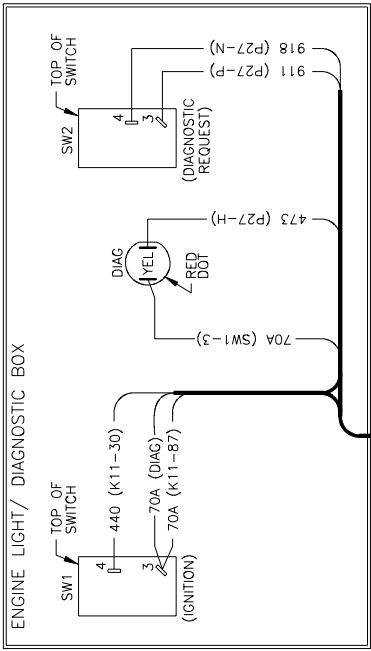
|                                                                                                                                                                              |         |                                                            |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------|---------------------|
| UNLESS OTHERWISE SPECIFIED -<br>1) DIMENSIONS ARE IN INCHES<br>2) TOLERANCES ARE:<br>.XXX ± .010 ANGLES ± 1/2°<br>.XX ± .030 SURFACE FINISH<br>.X ± .060<br>FRACTIONS ± MAX. |         | TOLERANCES ARE:<br>ANGLES ± 1/2°<br>SURFACE FINISH<br>MAX. |                     |
| APPROVALS                                                                                                                                                                    | DATE    | TITLE                                                      |                     |
| DRAWN DFS                                                                                                                                                                    | 4-30-04 | DIAGRAM, WIRING                                            |                     |
| CHECKED JS                                                                                                                                                                   | 5-8-04  | SCALE / /                                                  | CAD NO. GM35943.DWG |
| APPROVED JS                                                                                                                                                                  | 5-8-04  | PLOTTED                                                    | SHEET 1-1           |
|                                                                                                                                                                              |         | DWG. NO.                                                   | GM35943             |
|                                                                                                                                                                              |         |                                                            | C G                 |



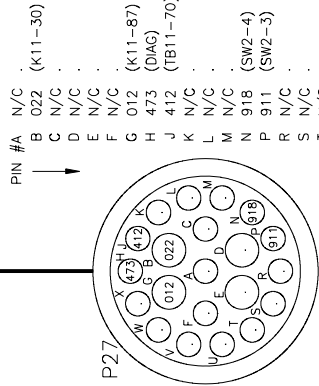


| REV | DATE     | REVISION                              | BY  |
|-----|----------|---------------------------------------|-----|
| -   | 10-18-04 | NEW DRAWING [73481]                   | DFS |
| A   | 1-12-05  | (A-1, -3) 200-275 WAS 230-275 [74175] | SAM |
|     |          |                                       |     |
|     |          |                                       |     |
|     |          |                                       |     |
|     |          |                                       |     |
|     |          |                                       |     |
|     |          |                                       |     |

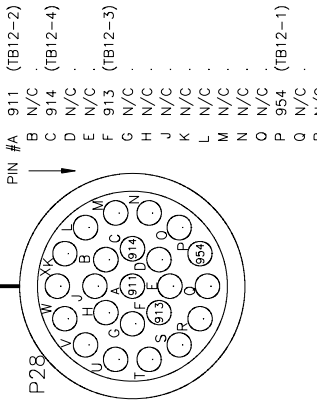
ENGINE



P27 CONNECTIONS



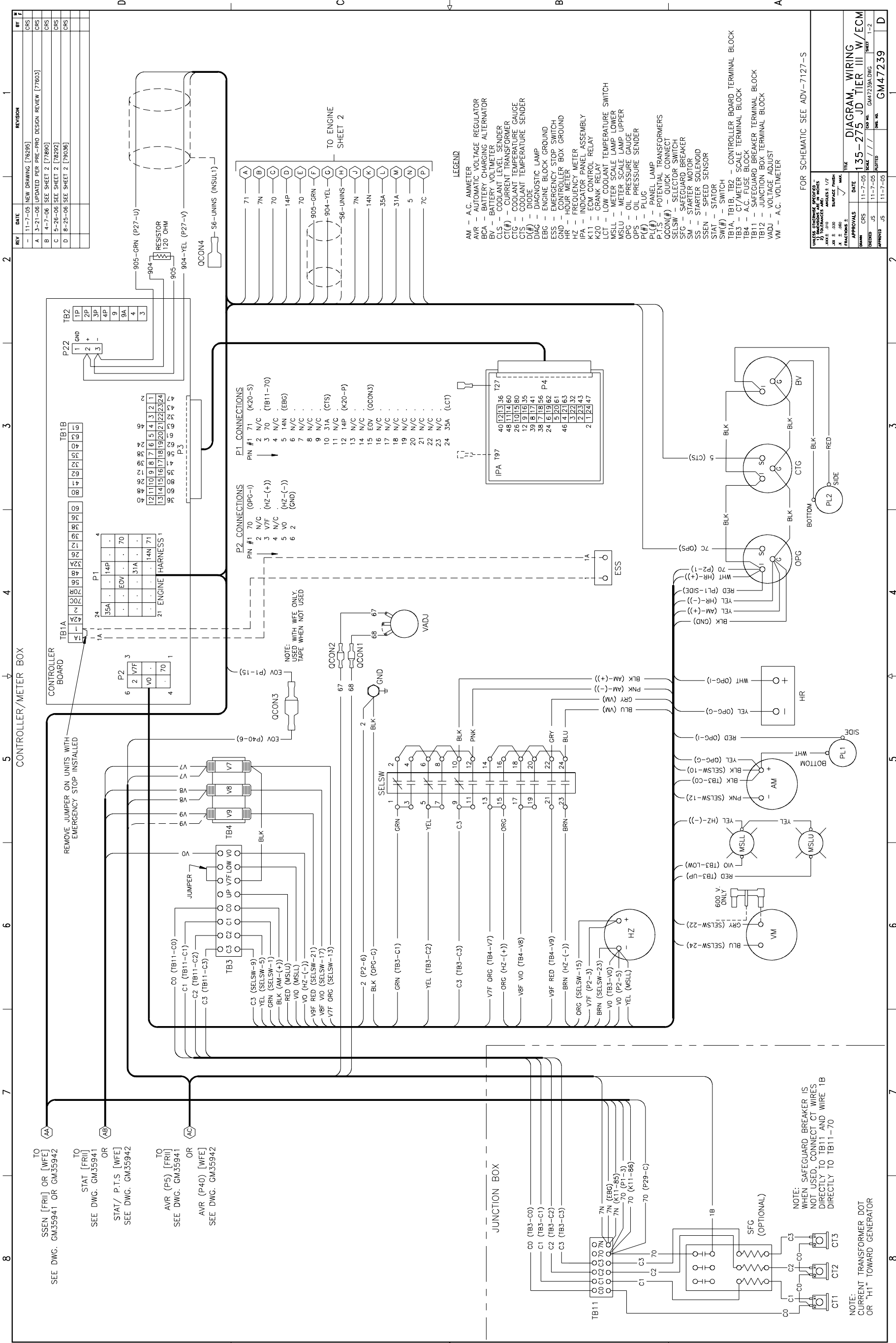
P28 CONNECTIONS



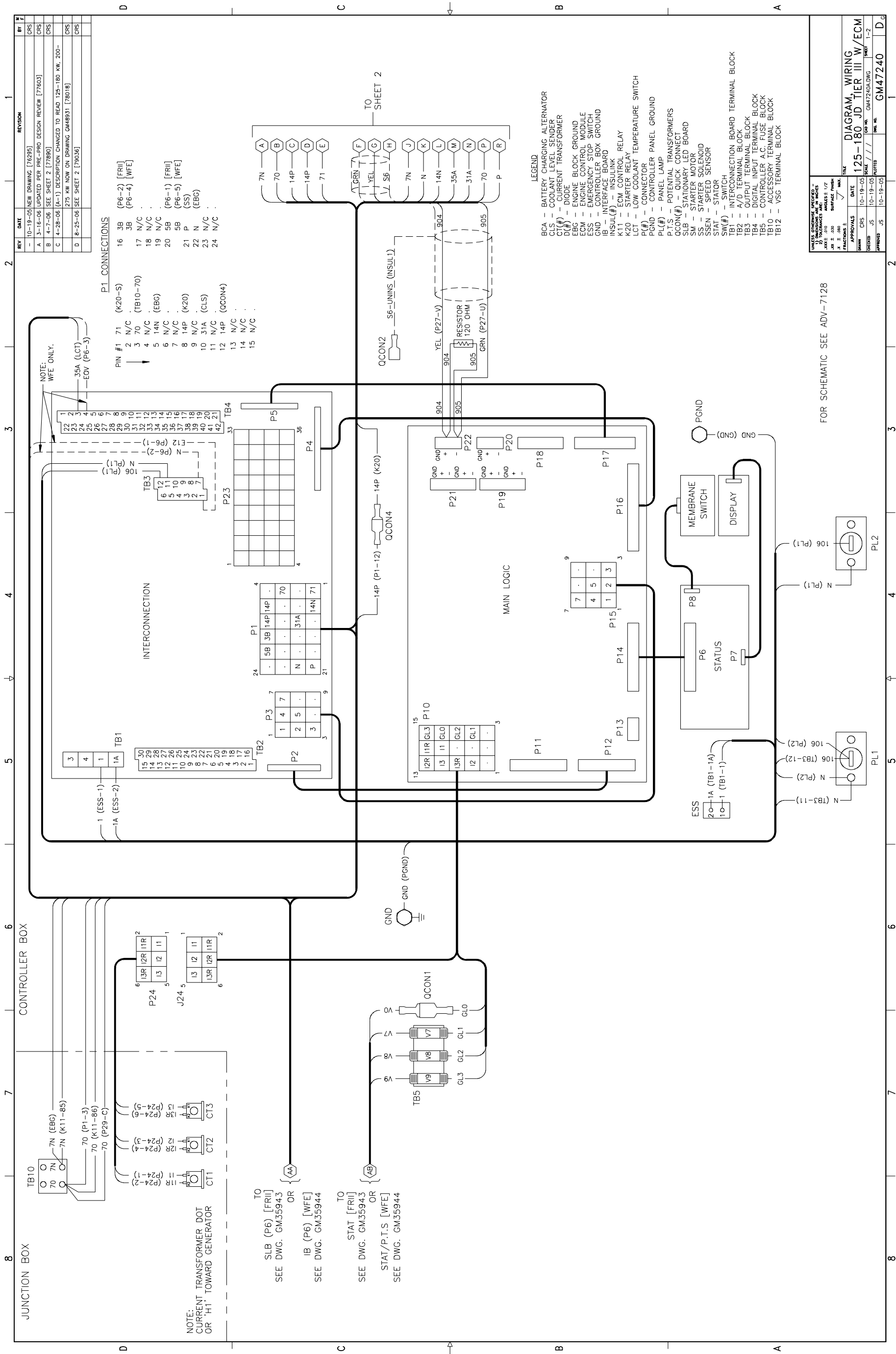
|                                                          |                                                          |                                                          |                                                          |
|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| DATE: 10-18-04<br>BY: DFS<br>CHECKED: JS<br>APPROVED: JS | DATE: 10-18-04<br>BY: DFS<br>CHECKED: JS<br>APPROVED: JS | DATE: 10-18-04<br>BY: DFS<br>CHECKED: JS<br>APPROVED: JS | DATE: 10-18-04<br>BY: DFS<br>CHECKED: JS<br>APPROVED: JS |
| 10-18-04                                                 | 10-18-04                                                 | 10-18-04                                                 | 10-18-04                                                 |
| 10-18-04                                                 | 10-18-04                                                 | 10-18-04                                                 | 10-18-04                                                 |
| 10-18-04                                                 | 10-18-04                                                 | 10-18-04                                                 | 10-18-04                                                 |

DIAGRAM, WIRING  
200-275 JD TIER II W/ECM

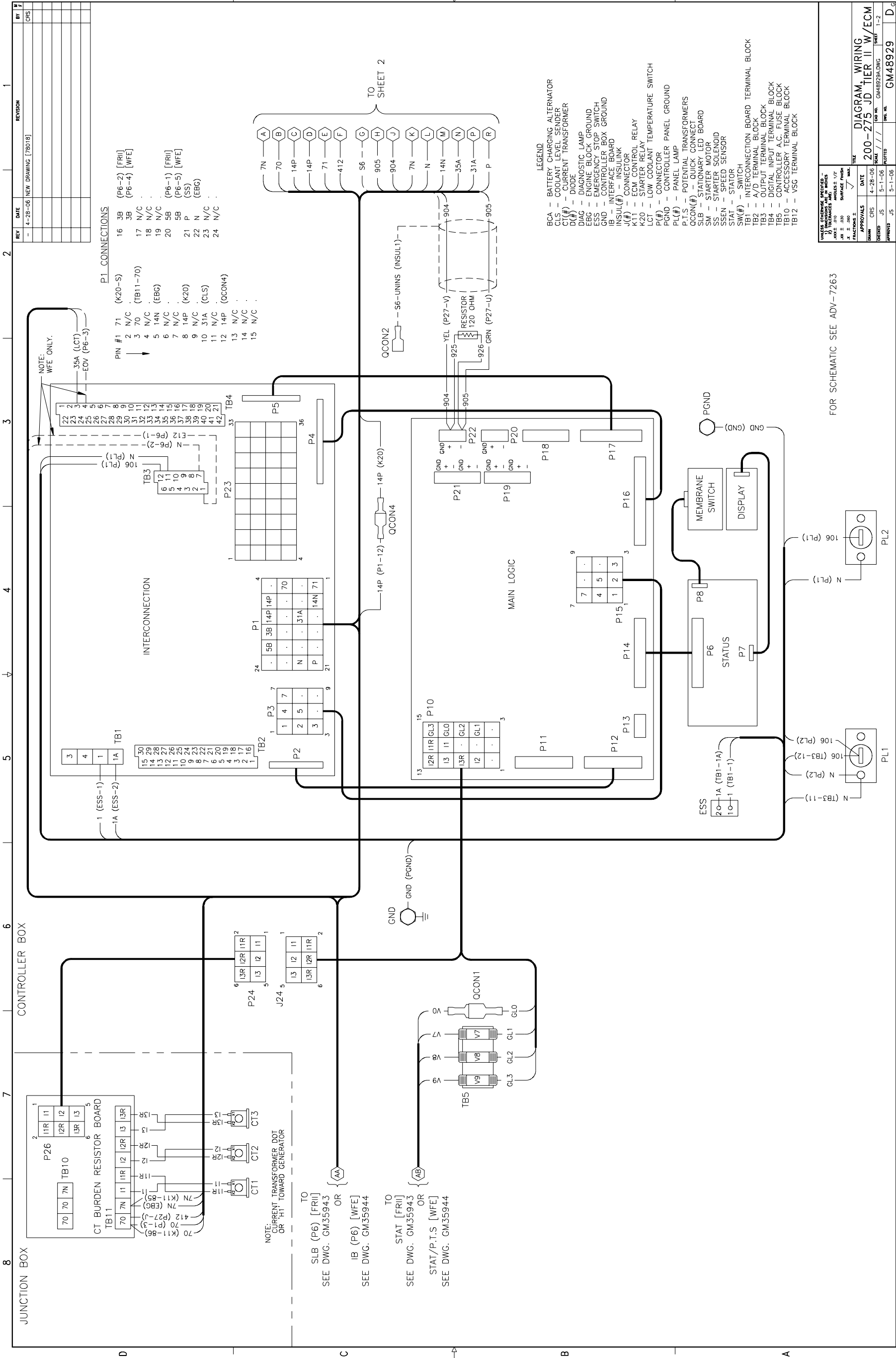
2-2







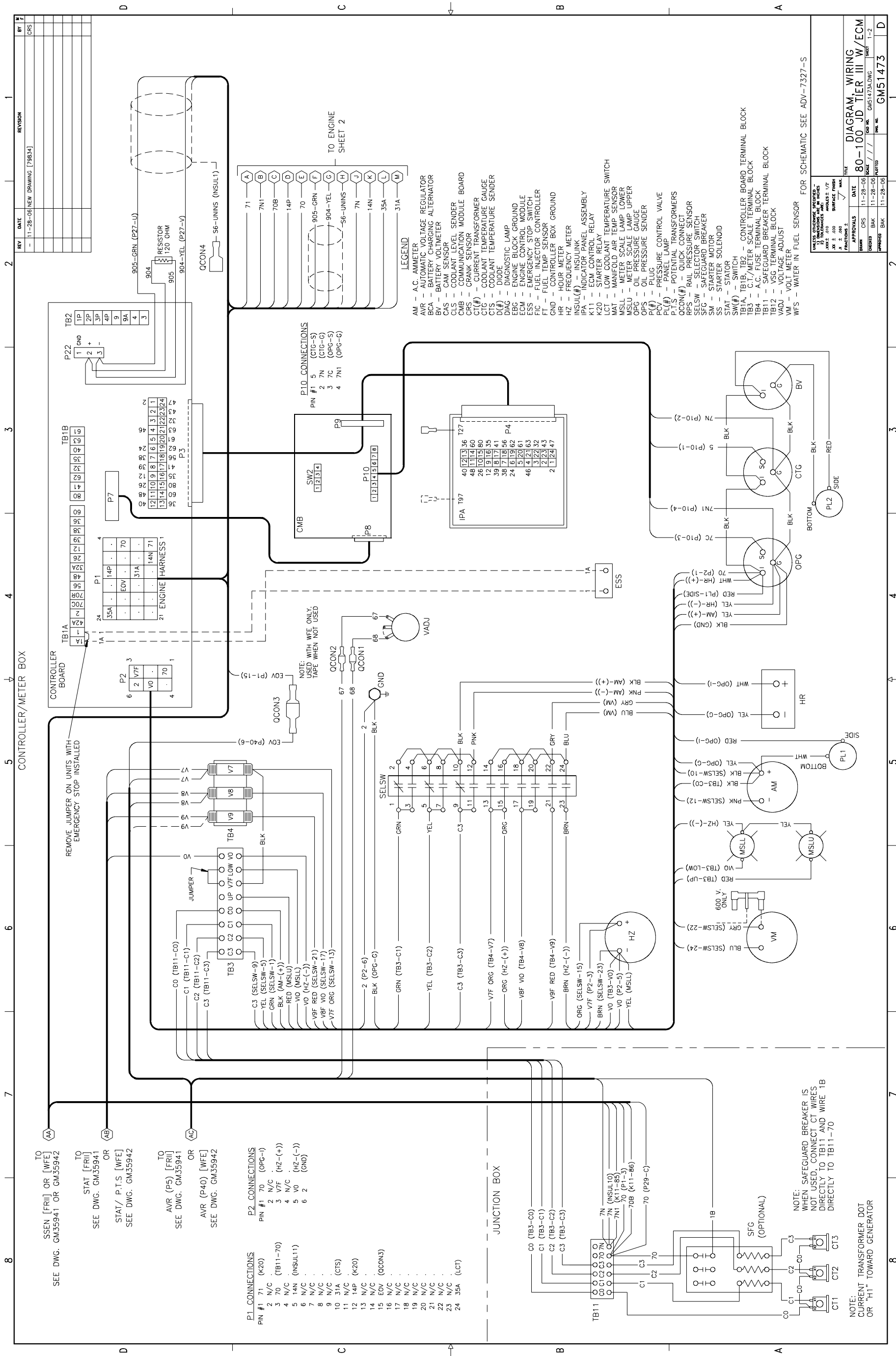


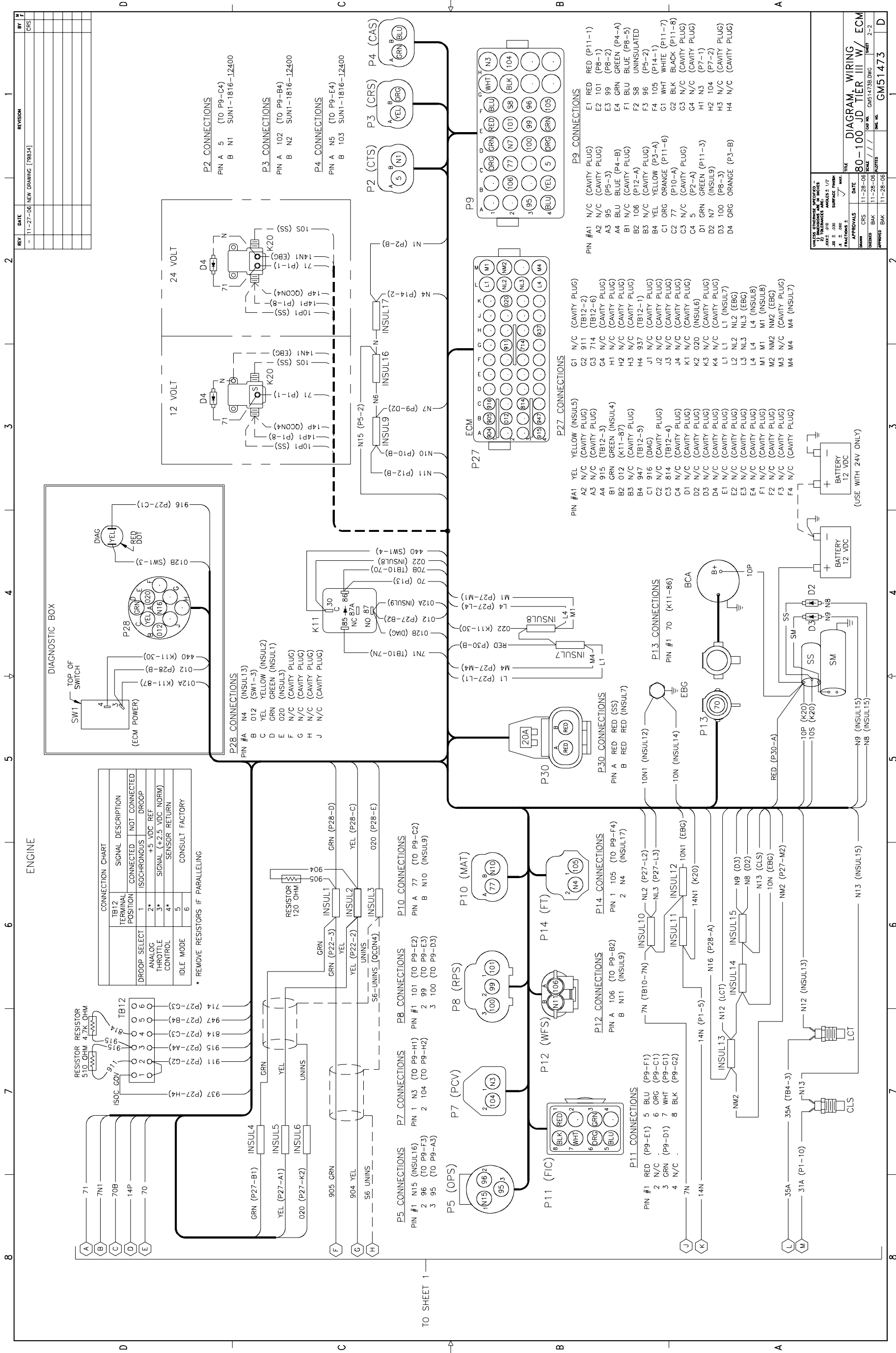






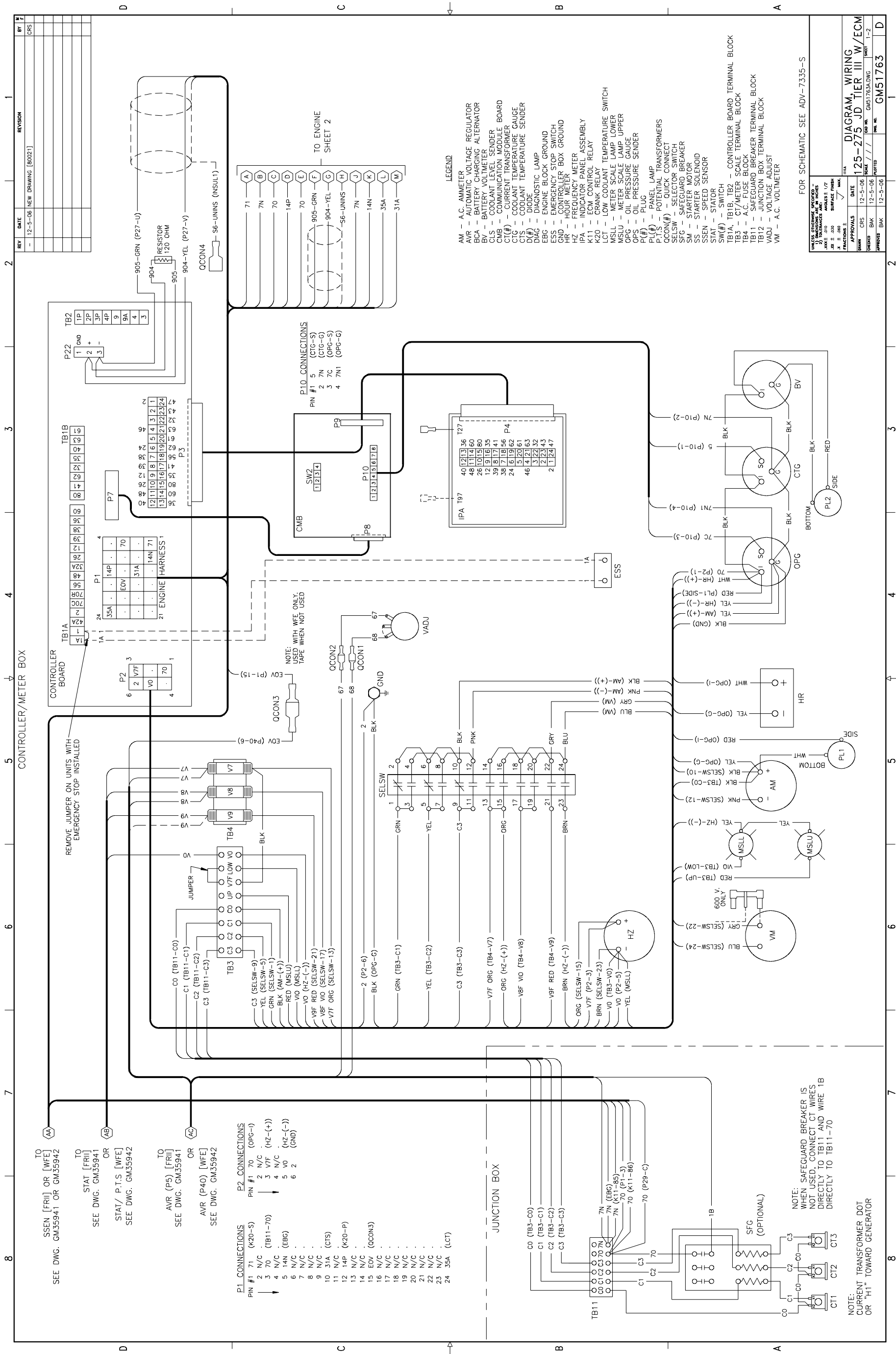
























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**MP-6146 1/07g**

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