

Wiring Diagrams



Generator Sets

Models:

20GS

30-125GSG

30/50GSGB

Controllers:

Digital 550

Digital

Microprocessor-Plus

Basic



Product Identification Information

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
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Engine Identification

Record the product identification information from the engine nameplate.

Manufacturer _____

Model Designation _____

Serial Number _____

Controller Identification

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

Controller Description _____

This manual provides wiring diagrams for the 20GS, 30-125GSG, and 30/50GSGB generator sets equipped with one of the following controllers:

- Digital 550
- Digital
- Microprocessor-Plus
- Basic

Information in this publication represents data available at the time of print. The manufacturer of DDC/MTU Power Generation products reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

Service Assistance

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
- 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.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
20GS	50/60	GM28726-GA1S	1-1
30GSG	50/60	GM22383-GA1S, 7S, 10S	2-1
	50/60	GM39370-GA1S, 7S, 10S, 13S, 14S	2-2
30GSGB	60	GM22316-GA1S, 4S	5-1
35GSG	50/60	GM22383-GA2S, 8S, 11S	2-1
	50/60	GM39370-GA2S, 8S, 11S, 15S, 16S	2-2
45GSG	50/60	GM22383-GA3S, 9S, 12S	2-1
	50/60	GM39370-GA3S, 9S, 12S, 17S, 18S	2-2
50GSGB	50/60	GM21302-GA1S, 5S, 7S	2-1
	50/60	GM39374-GA1S, 5S, 7S	2-2
60GSG	50/60	GM21302-GA2S, 6S, 8S	2-1
	50/60	GM39374-GA2S, 6S, 8S	2-2
80GSG	50/60	GM22407-GA1S, 2S, 3S, 4S	3-1
	50/60	GM34436-GA1S, 2S, 3S, 4S	3-2
100GSG	50/60	GM22407-GA5S, 6S, 7S, 8S	3-1
	50/60	GM34436-GA5S, 6S, 7S, 8S	3-2
125GSG	50/60	GM25339-GA1S, 2S, 3S, 4S	4-1
	50/60	GM34464-GA1S, 2S, 3S, 4S	4-2

20GS Wiring Diagrams Reference

Controller Description	Version 1-1	Page
Digital Controller		
Point-to-Point Wiring Diagram		
Sheet 1	347940A-L	81
Sheet 2	347940B-L	82
Sheet 3	347940C-L	83
Sheet 4	347940D-L	84
Schematic Diagram		
Sheet 1	ADV-6130A-L	16
Sheet 2	ADV-6130B-L	17
Accessory Connections		
Accessories	354246A-D	85
Remote Annunciator Kit	354246B-D	86
Microprocessor-Plus Controller		
Point-to-Point Wiring Diagram		
Sheet 1	333132A-G	77
Sheet 2	333132B-G	78
Sheet 3	333132C-G	79
Sheet 4	333132D-G	80
Schematic Diagram	ADV-6002-G	14
Accessory Connections		
Accessories	328912A-G	75
Remote Annunciator Kit	328912B-G	76
Basic Controller		
Point-to-Point Wiring Diagram		
Sheet 1	326616A-F	71
Sheet 2	326616B-F	72
Sheet 3	326616C-F	73
Sheet 4	326616D-F	74
Schematic Diagram	ADV-6008-H	15
Alternator Reconnections		
Alternator, 12-Lead	ADV-5875A-G	12
Alternator, 4-Lead	ADV-5857-B	11

30-60GSG and 50GSGB Wiring Diagrams Reference

Controller Description	Version 2-1	Page	Version 2-2	Page
Digital 550 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM21220A-D	49	GM39350A-	67
Sheet 2	GM21220B-D	50	GM39350B-	68
Wound Field Alternator	GM35944-B	64	GM35944-B	64
Permanent Magnet Alternator	GM35943-A	63	GM35943-A	63
Schematic Diagram				
Sheet 1	ADV-6671A-C	22	ADV-7017A-	41
Sheet 2	ADV-6671B-C	23	ADV-7017B-	42
Wound Field Alternator	ADV-6958-A	36	ADV-6958-A	36
Permanent Magnet Alternator	ADV-6957-	35	ADV-6957-	35
Accessory Connections				
Accessories	GM16088A-F	43	GM16088A-F	43
Remote Annunciator Kit	GM16088B-F	44	GM16088B-F	44
Microprocessor-Plus Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM21219A-C	47	GM39378A-	69
Sheet 2	GM21219B-C	48	GM39378B-	70
Wound Field Alternator	GM35942-E	62	GM35942-E	62
Permanent Magnet Alternator	GM35941-C	61	GM35941-C	61
Schematic Diagram				
Sheet 1	ADV-6670A-C	20	ADV-7016A-	39
Sheet 2	ADV-6670B-C	21	ADV-7016B-	40
Wound Field Alternator	ADV-6956-C	34	ADV-6956-C	34
Permanent Magnet Alternator	ADV-6955-A	33	ADV-6955-A	33
Accessory Connections				
Accessories	328912A-G	75	328912A-G	75
Remote Annunciator Kit	328912B-G	76	328912B-G	76
Basic Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM21217A-C	45	GM39348A-	65
Sheet 2	GM21217B-C	46	GM39348B-	66
Wound Field Alternator	GM35942-E	62	GM35942-E	62
Permanent Magnet Alternator	GM35941-C	61	GM35941-C	61
Schematic Diagram				
Sheet 1	ADV-6669A-C	18	ADV-7015A-	37
Sheet 2	ADV-6669B-C	19	ADV-7015B-	38
Wound Field Alternator	ADV-6956-C	34	ADV-6956-C	34
Permanent Magnet Alternator	ADV-6955-A	33	ADV-6955-A	33
Alternator Reconnections				
Permanent Magnet Alternator, 12-Lead	ADV-5875A-G	12	ADV-5875A-G	12
Wound Field Alternator, 12-Lead	ADV-5875B-G	13	ADV-5875B-G	13
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5857-B	11	ADV-5857-B	11

Note: Version 2-2 represents the Woodward L-Series throttle release.

30GSGB Wiring Diagrams Reference

Controller Description	Version 5-1	Page
Digital 550 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM34401A-D	59
Sheet 2	GM34401B-D	60
Wound Field Alternator	GM35944-B	64
Permanent Magnet Alternator	GM35943-A	63
Schematic Diagram		
Sheet 1	ADV-6931A-C	31
Sheet 2	ADV-6931B-C	32
Wound Field Alternator	ADV-6958-A	36
Permanent Magnet Alternator	ADV-6957-	35
Accessory Connections		
Accessories	GM16088A-F	43
Remote Annunciator Kit	GM16088B-F	44
Microprocessor-Plus Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM25393A-H	53
Sheet 2	GM25393B-H	54
Wound Field Alternator	GM35942-E	62
Permanent Magnet Alternator	GM35941-C	61
Schematic Diagram		
Sheet 1	ADV-6789A-H	24
Sheet 2	ADV-6789B-H	25
Wound Field Alternator	ADV-6956-C	34
Permanent Magnet Alternator	ADV-6955-A	33
Accessory Connections		
Accessories	328912A-G	75
Remote Annunciator Kit	328912B-G	76
Basic Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM26185A-D	55
Sheet 2	GM26185B-D	56
Wound Field Alternator	GM35942-E	62
Permanent Magnet Alternator	GM35941-C	61
Schematic Diagram		
Sheet 1	ADV-6796A-D	29
Sheet 2	ADV-6796B-D	30
Wound Field Alternator	ADV-6956-C	34
Permanent Magnet Alternator	ADV-6955-A	33
Engine Control	GM29995-A	57
Alternator Reconnections		
Permanent Magnet Alternator, 12-Lead	ADV-5875A-G	12
Wound Field Alternator, 12-Lead	ADV-5875B-G	13
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5857-B	11

80/100GSG Wiring Diagrams Reference

Controller Description	Version 3-1	Page	Version 3-2	Page
Digital 550 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25329A-F	51	GM34401A-D	59
Sheet 2	GM25329B-F	52	GM34401B-D	60
Wound Field Alternator	GM35944-B	64	GM35944-B	64
Permanent Magnet Alternator	GM35943-A	63	GM35943-A	63
Schematic Diagram				
Sheet 1	ADV-6790A-F	26	ADV-6931A-C	31
Sheet 2	ADV-6790B-F	27	ADV-6931B-C	32
Sheet 3	ADV-6790C-F	28	—	
Wound Field Alternator	ADV-6958-A	36	ADV-6958-A	36
Permanent Magnet Alternator	ADV-6957-	35	ADV-6957-	35
Accessory Connections				
Accessories	GM16088A-F	43	GM16088A-F	43
Remote Annunciator Kit	GM16088B-F	44	GM16088B-F	44
Microprocessor-Plus Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25393A-H	53	GM25393A-H	53
Sheet 2	GM25393B-H	54	GM25393B-H	54
Wound Field Alternator	GM35942-E	62	GM35942-E	62
Permanent Magnet Alternator	GM35941-C	61	GM35941-C	61
Schematic Diagram				
Sheet 1	ADV-6789A-H	24	ADV-6789A-H	24
Sheet 2	ADV-6789B-H	25	ADV-6789B-H	25
Wound Field Alternator	ADV-6956-C	34	ADV-6956-C	34
Permanent Magnet Alternator	ADV-6955-A	33	ADV-6955-A	33
Accessory Connections				
Accessories	328912A-G	75	328912A-G	75
Remote Annunciator Kit	328912B-G	76	328912B-G	76
Basic Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM26185A-D	55	GM26185A-D	55
Sheet 2	GM26185B-D	56	GM26185B-D	56
Wound Field Alternator	GM35942-E	62	GM35942-E	62
Permanent Magnet Alternator	GM35941-C	61	GM35941-C	61
Schematic Diagram				
Sheet 1	ADV-6796A-D	29	ADV-6796A-D	29
Sheet 2	ADV-6796B-D	30	ADV-6796B-D	30
Wound Field Alternator	ADV-6956-C	34	ADV-6956-C	34
Permanent Magnet Alternator	ADV-6955-A	33	ADV-6955-A	33
Engine Control	GM29996-B	58	GM29996-B	58
Alternator Reconnections				
Permanent Magnet Alternator, 12-Lead	ADV-5875A-G	12	ADV-5875A-G	12
Wound Field Alternator, 12-Lead	ADV-5875B-G	13	ADV-5875B-G	13
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5857-B	11	ADV-5857-B	11

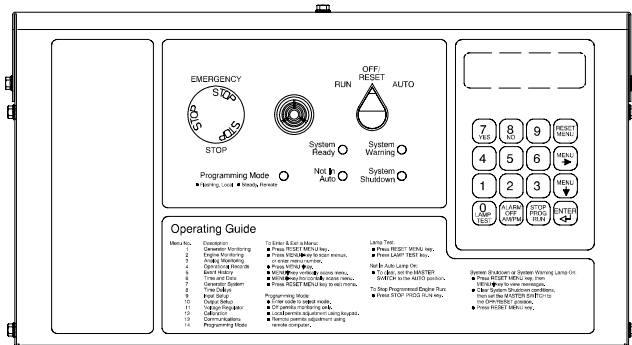
Note: Version 3-2 represents GM engines with SAE J1939 communications.

125GSG Wiring Diagrams Reference

Controller Description	Version 4-1	Page	Version 4-2	Page
Digital 550 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25329A-F	51	GM34401A-D	59
Sheet 2	GM25329B-F	52	GM34401B-D	60
Wound Field Alternator	GM35944-B	64	GM35944-B	64
Permanent Magnet Alternator	GM35943-A	63	GM35943-A	63
Schematic Diagram				
Sheet 1	ADV-6790A-F	26	ADV-6931A-C	31
Sheet 2	ADV-6790B-F	27	ADV-6931B-C	32
Sheet 3	ADV-6790C-F	28	—	
Wound Field Alternator	ADV-6958-A	36	ADV-6958-A	36
Permanent Magnet Alternator	ADV-6957-	35	ADV-6957-	35
Accessory Connections				
Accessories	GM16088A-F	43	GM16088A-F	43
Remote Annunciator Kit	GM16088B-F	44	GM16088B-F	44
Microprocessor-Plus Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25393A-H	53	GM25393A-H	53
Sheet 2	GM25393B-H	54	GM25393B-H	54
Wound Field Alternator	GM35942-E	62	GM35942-E	62
Permanent Magnet Alternator	GM35941-C	61	GM35941-C	61
Schematic Diagram				
Sheet 1	ADV-6789A-H	24	ADV-6789A-H	24
Sheet 2	ADV-6789B-H	25	ADV-6789B-H	25
Wound Field Alternator	ADV-6956-C	34	ADV-6956-C	34
Permanent Magnet Alternator	ADV-6955-A	33	ADV-6955-A	33
Accessory Connections				
Accessories	328912A-G	75	328912A-G	75
Remote Annunciator Kit	328912B-G	76	328912B-G	76
Engine Control	GM29996-B	58	GM29996-B	58
Alternator Reconnections				
Permanent Magnet Alternator, 12-Lead	ADV-5875A-G	12	ADV-5875A-G	12
Wound Field Alternator, 12-Lead	ADV-5875B-G	13	ADV-5875B-G	13
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5857-B	11	ADV-5857-B	11

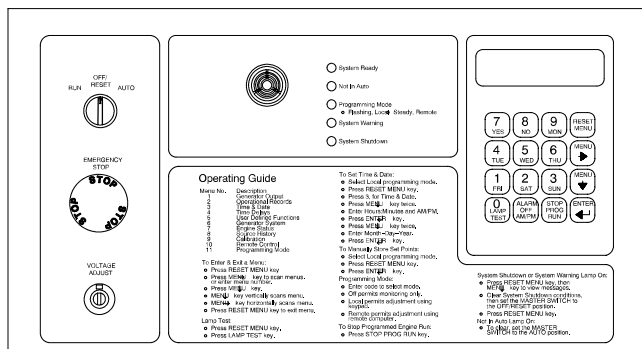
Note: Version 4-2 represents GM engines with SAE J1939 communications.

Controller Identification



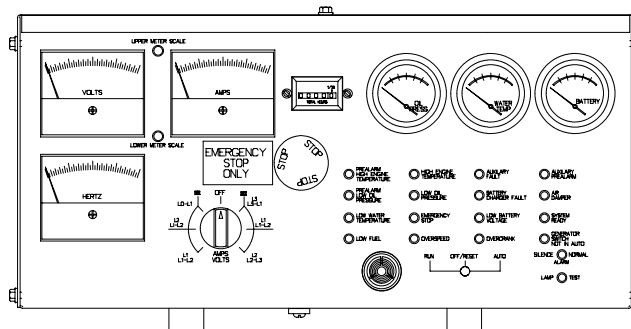
Digital 550 Controller

- 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.



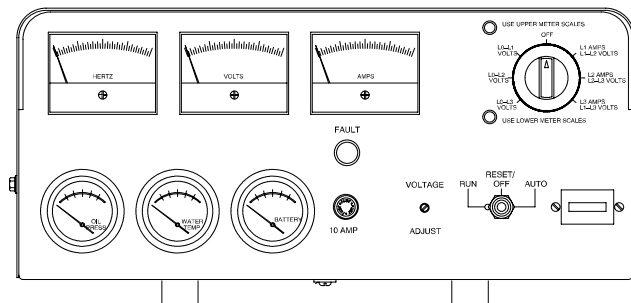
Digital Controller

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



Microprocessor-Plus, 16-Light Controller

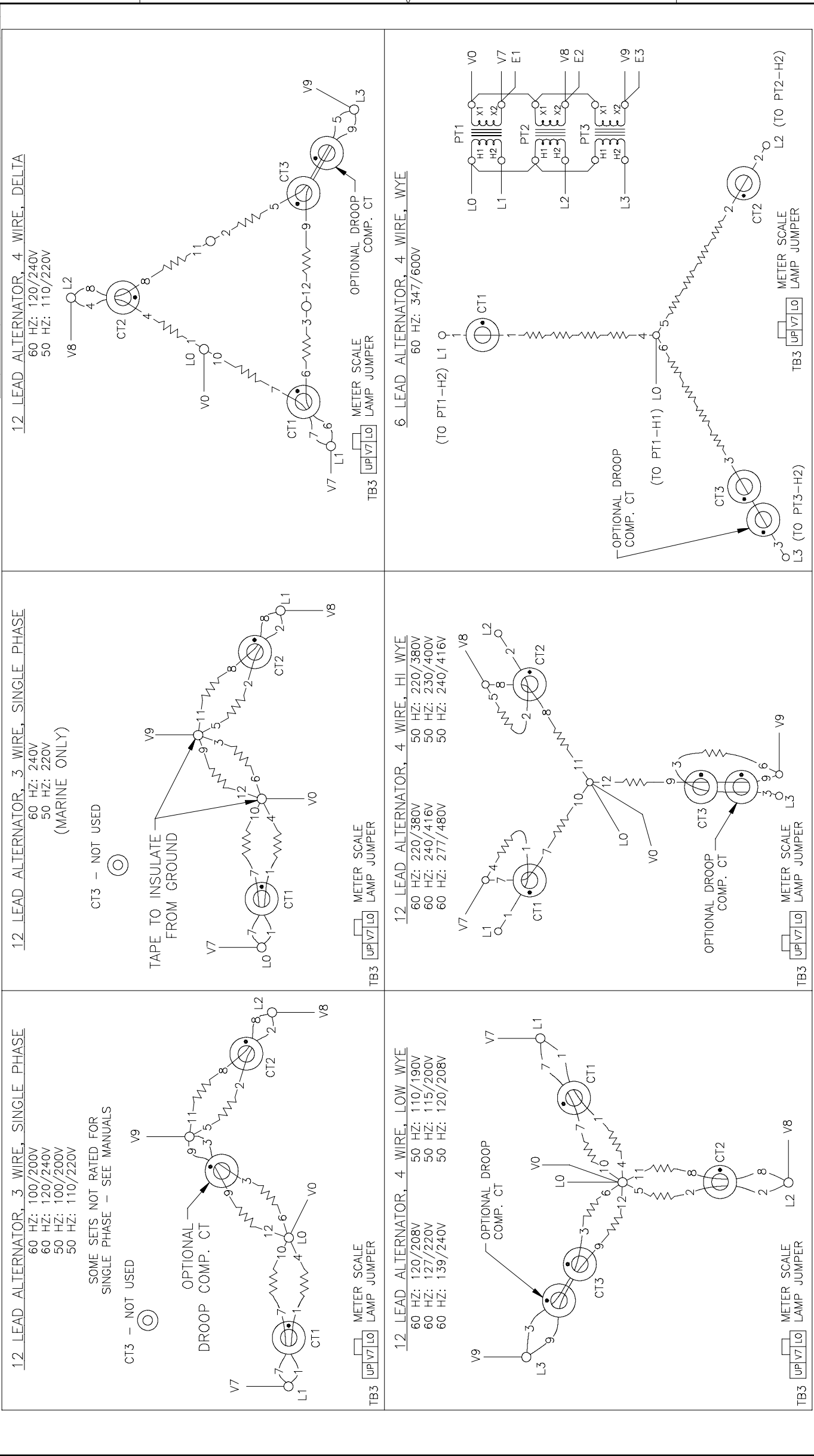
- Audiovisual annunciation with NFPA 110 Level 1 capability.
- Microprocessor logic, AC meters, and engine gauge features.
- 12- or 24-volt engine electrical system capability.
- Remote start, prime power, and remote annunciation options.

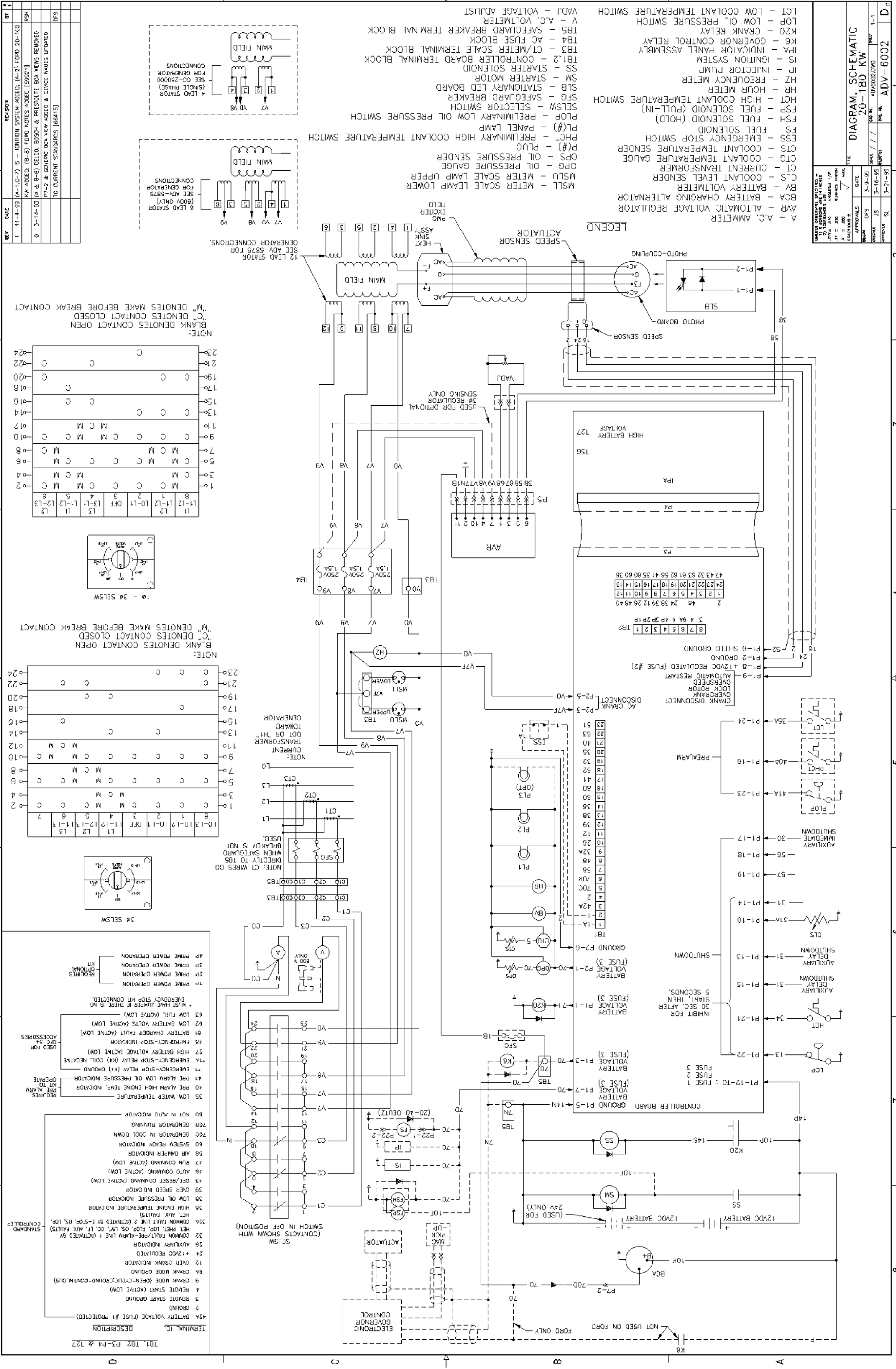


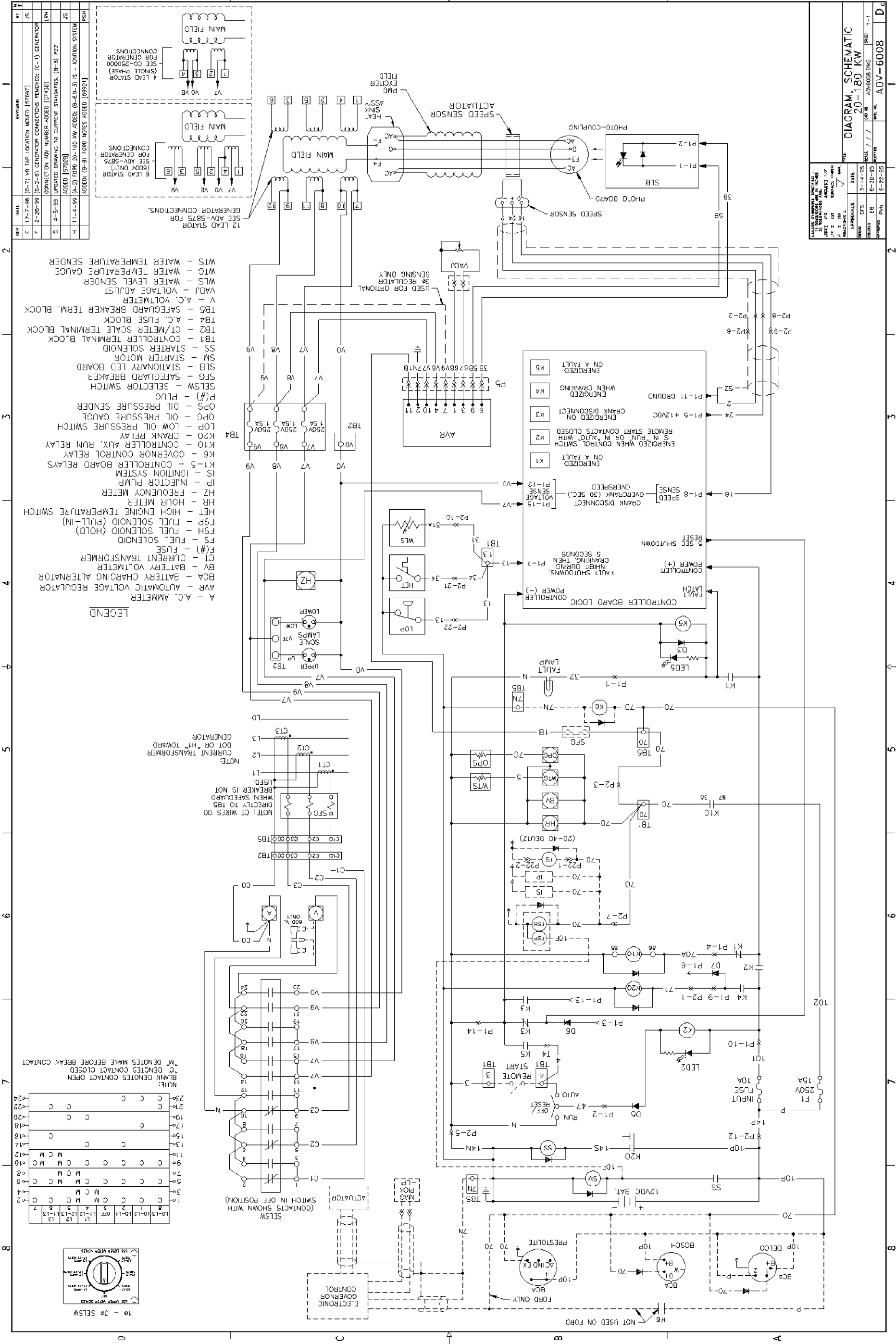
Basic Controller

- 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.

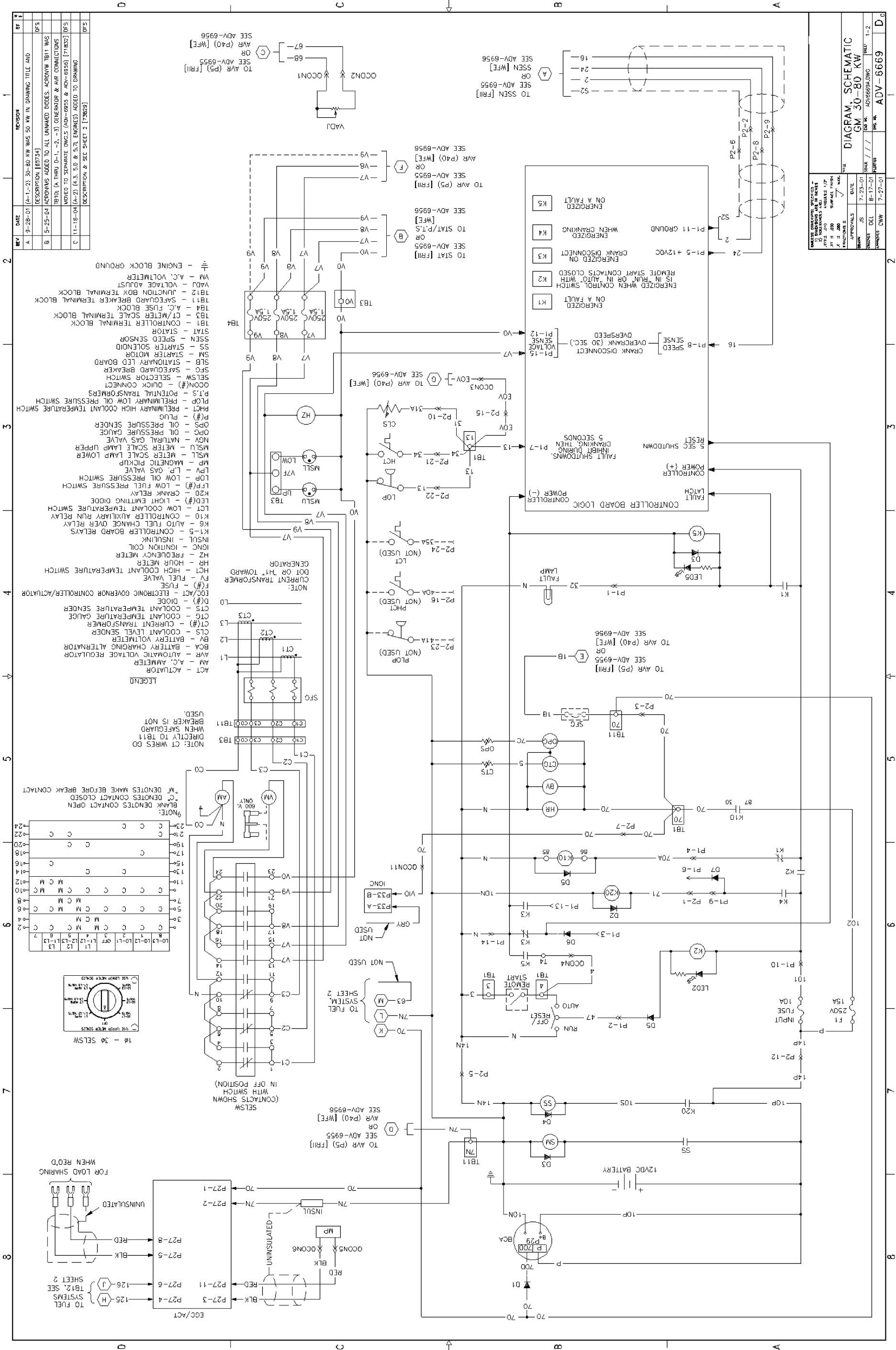
REV	DATE	REVISION	BY
E	5-27-04	(A-1,-2) SHEET 2-3 WAS 2-2, 60-300 KW WOUND EXCITER FIELD	F
		ALTERNATORS WAS MARATHON ALTERNATORS IN DRAWING	
		DESCRIPTION: MARATHON WIRING DIAGRAMS MOVED TO SHEET 3;	
		(A & C-2,-3,-4) TB3 WAS TB2 (6 PLACES) & SEE SHEETS	
		1 AND 3 [71832]	
F	9-2-04	(A-2) 60 (I.M.S.)-300 KW WAS 60-300 KW. [72955]	DFS
G	12-12-05	SEE SHEET 3 [76798]	RAC
			SAM



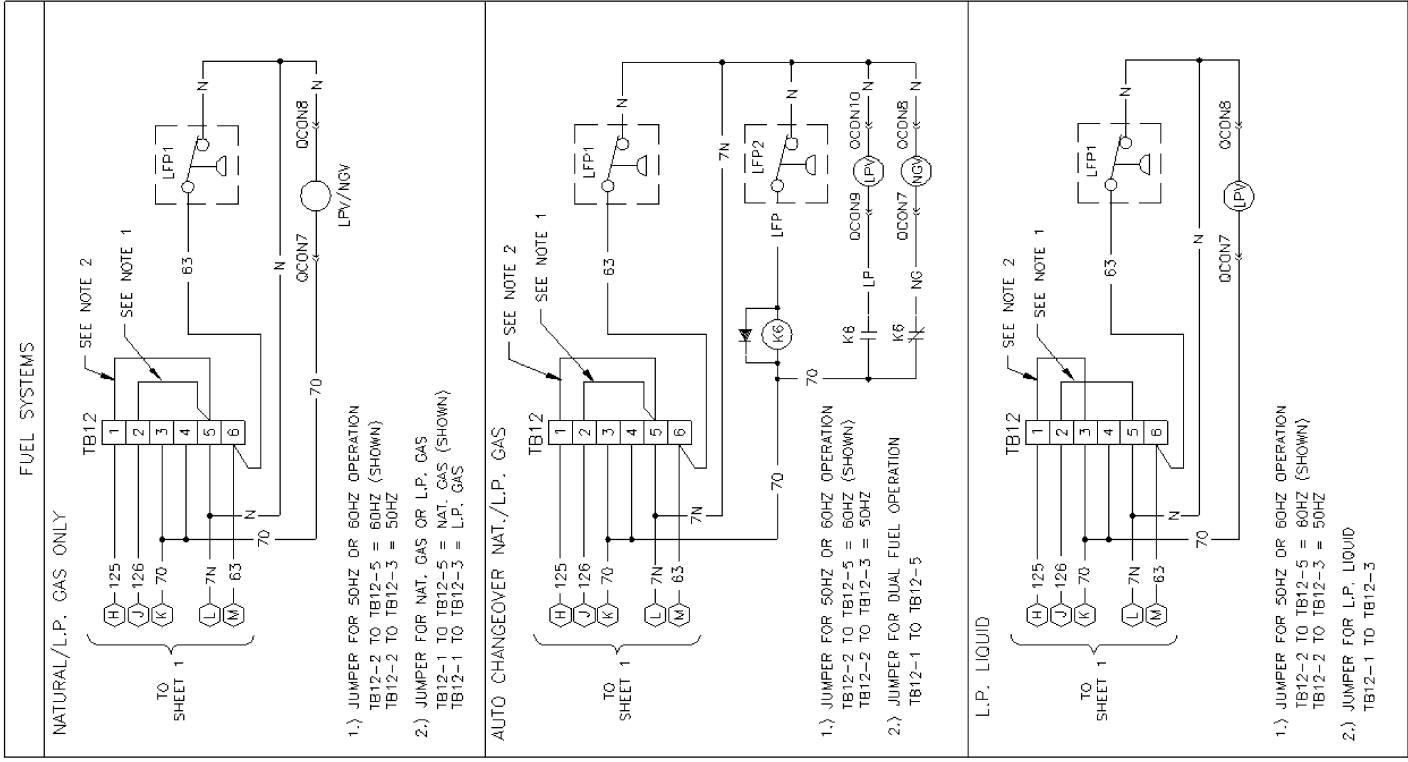




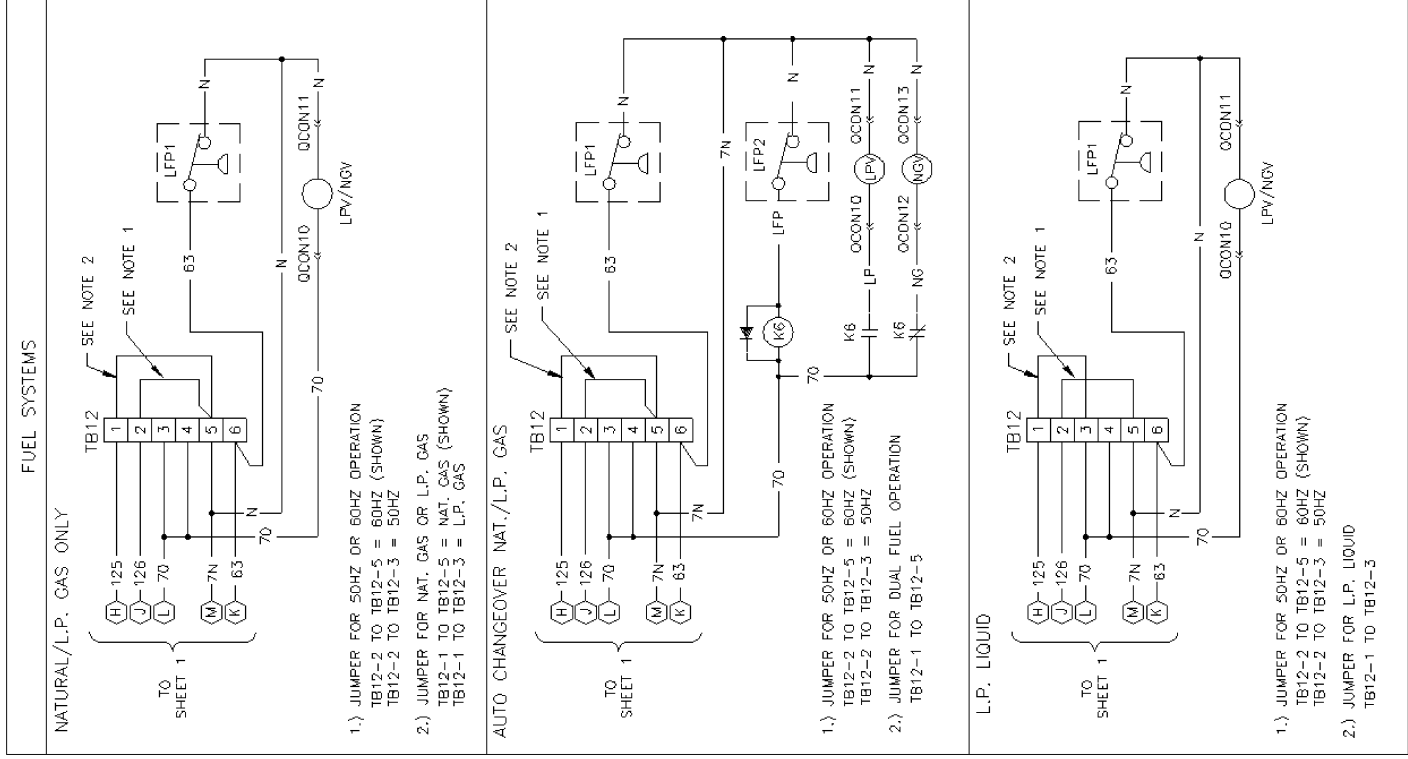
REV	DATE	REVISION
1	12-7-98	[0-7] V8 TAP LOCATION MOVED [57097]
2	2-20-99	[0-2-6] GENERATOR CONNECTIONS REMOVED: (C-1) GENERATOR
3	4-5-99	UPDATED DRAWING TO CURRENT STANDARDS. (B-8) P22
4	11-4-99	ADDED [57098]
5	11-4-99	ADDED [57099]
6	11-4-99	ADDED [57100]
7	11-4-99	ADDED [57101]
8	11-4-99	ADDED [57102]
9	11-4-99	ADDED [57103]
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76	11-4-99	ADDED [57170]



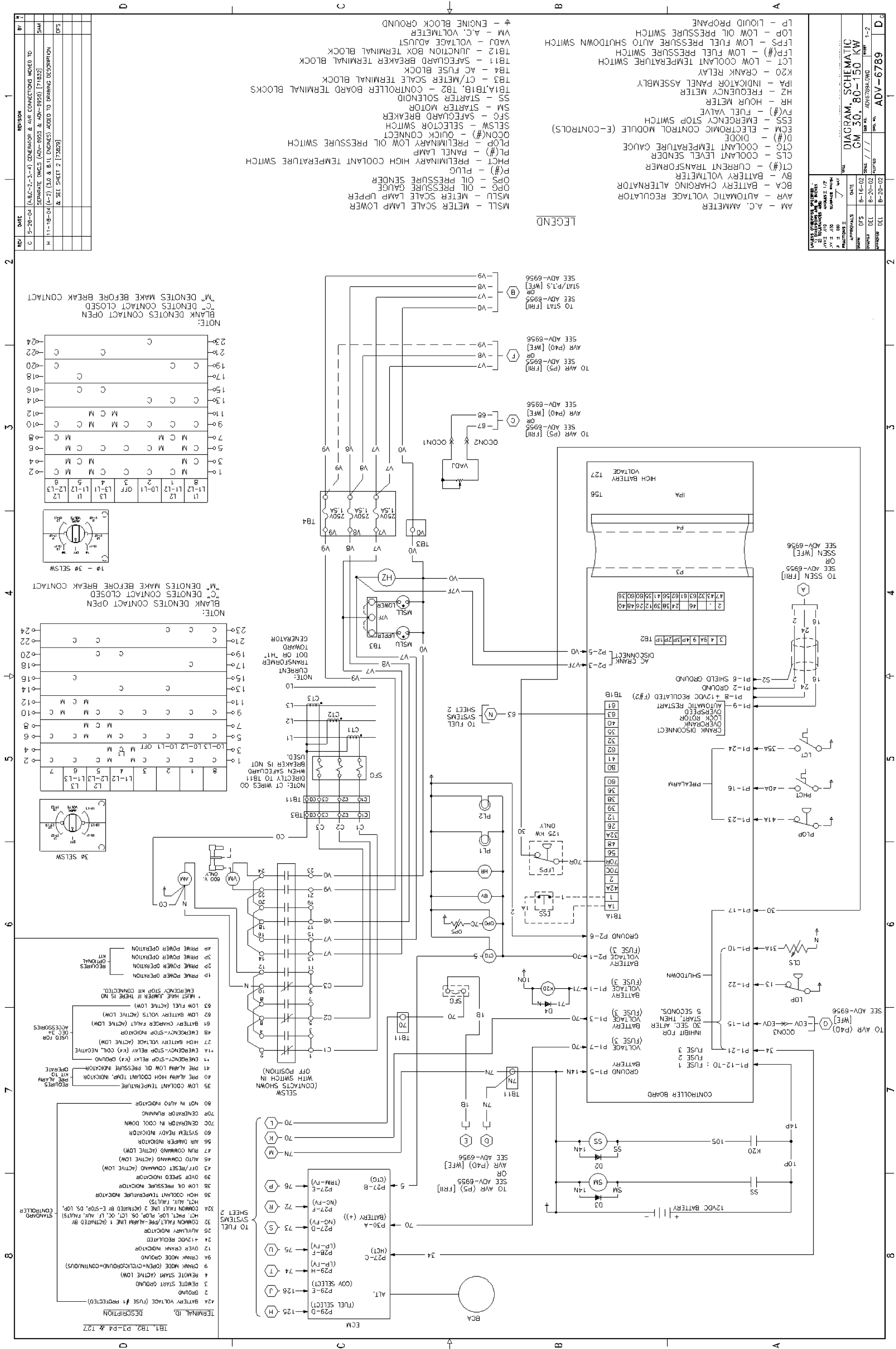
REV#	DATE	REVISION	BY	1
-	7-23-01	NEW DRAWING. [56206]		
A	9-28-01	(A-1,-2) 30-80 KW WAS 50 KW IN DRAWING TITLE AND DESCRIPTION [65734]	JS	
B	5-26-04	SEE SHEET 1 [71832]	DF5	
C	11-18-04	(A-2) (A-3, 5.0 & 5.7L ENGINES) ADDED TO DRAWING. DESCRIPTION & SEE SHEET 1 [73929]	DF5	

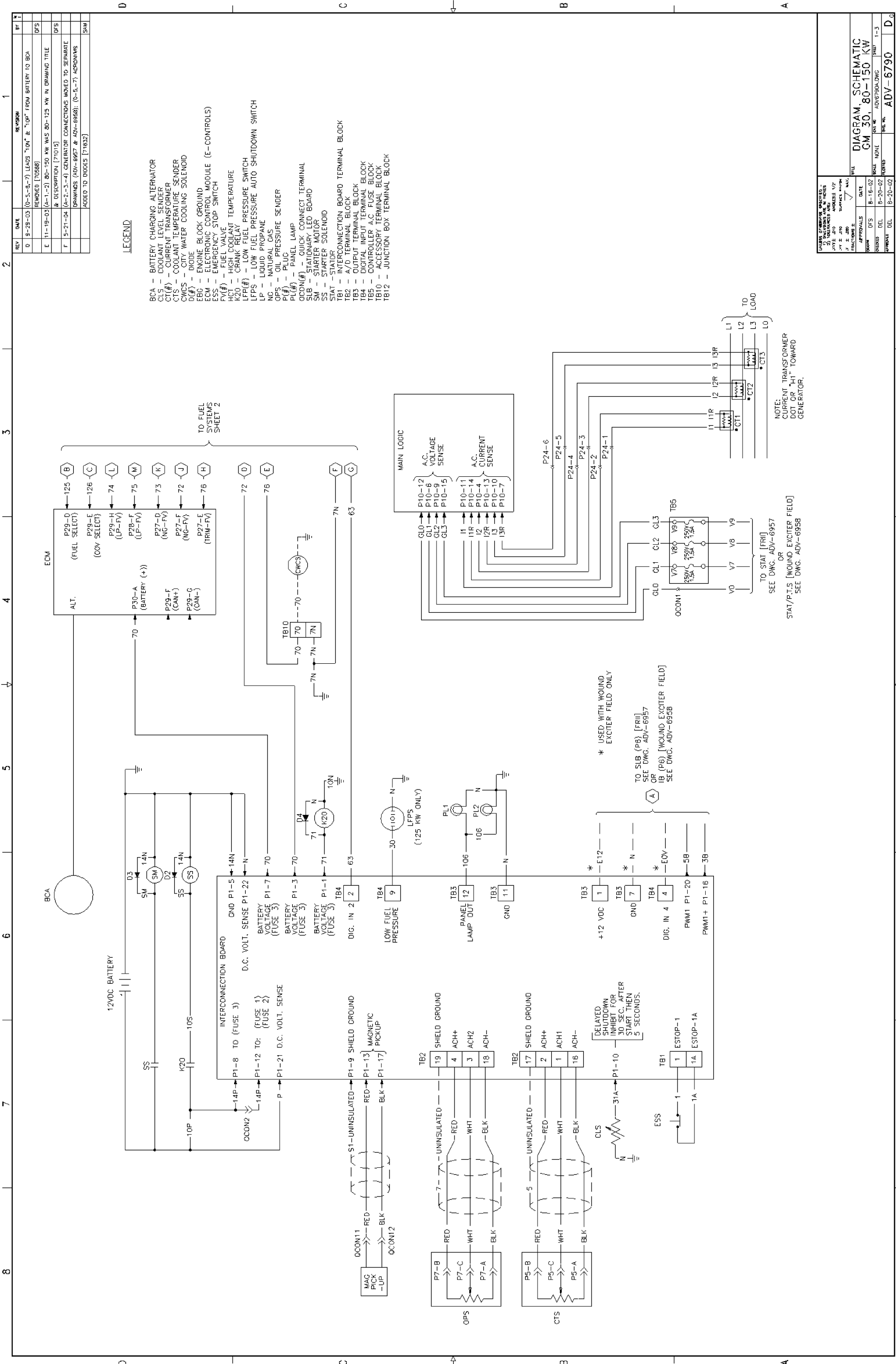
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REV	DATE	REVISION	BY	1
-	7-23-01	NEW DRAWING [65206]		
A	9-28-01	(A-1,-2) 30-80 KW WAS 50 KW IN DRAWING TITLE AND DESCRIPTION [65734]	JS	
B	5-26-04	[SEE SHEET 1] [71832]	DPS	
C	11-18-04	(A-2) (A-3, 5.0 & 5.7L ENGINES) ADDED TO DRAWING DESCRIPTION & SEE SHEET 1 [73929]	SAM	
			DPS	

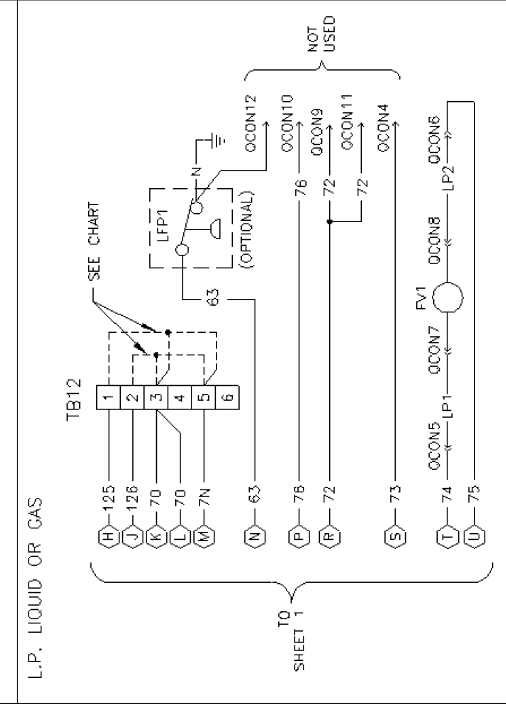
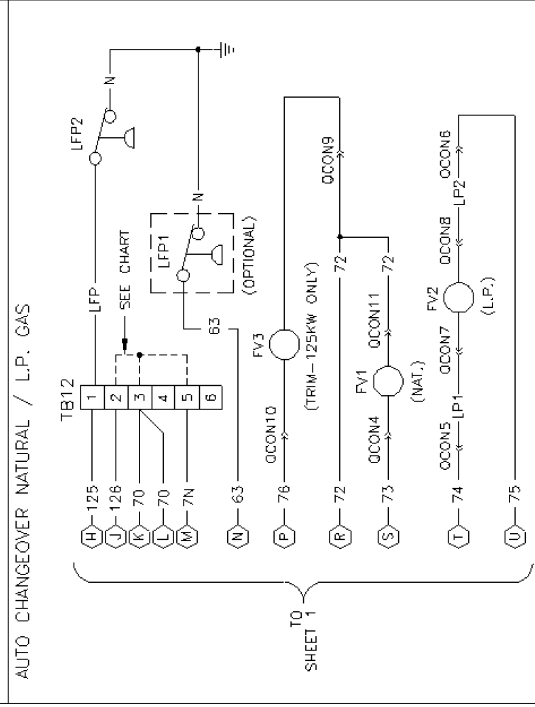
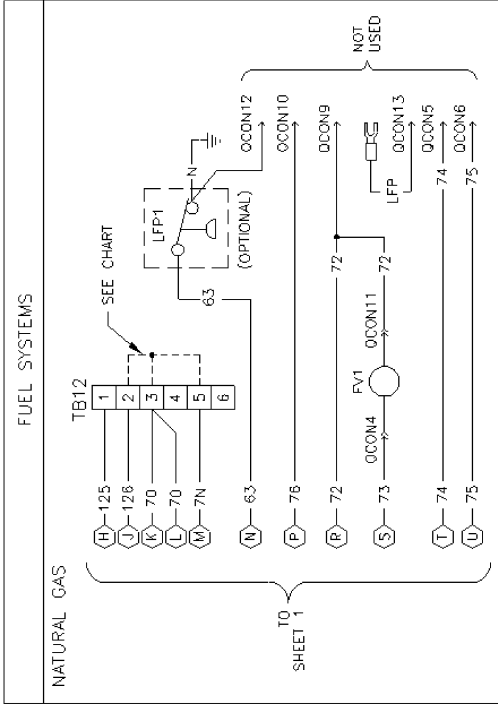


UNCLASSIFIED, UNCONTROLLED - NO FORN DISSEM OR RELEASE EXCEPT BY AUTHORITY OF JCS, JCRC, AND DIA NO 2. 030 SURVIVAL PHASE REVISION 2	DATE	APPROVALS	DIAGRAM, SCHEMATIC GM 30-80 KWH	FILE
UNCLASSIFIED, UNCONTROLLED - NO FORN DISSEM OR RELEASE EXCEPT BY AUTHORITY OF JCS, JCRC, AND DIA NO 2. 030 SURVIVAL PHASE REVISION 2	7-23-01	JS SIGNED	SCALE 1/1/1	DM NO. 401667018.DWG
UNCLASSIFIED, UNCONTROLLED - NO FORN DISSEM OR RELEASE EXCEPT BY AUTHORITY OF JCS, JCRC, AND DIA NO 2. 030 SURVIVAL PHASE REVISION 2	7-27-01	DEL APPROVED	DEL 1/1/1	DWG NO. ADV-6670
UNCLASSIFIED, UNCONTROLLED - NO FORN DISSEM OR RELEASE EXCEPT BY AUTHORITY OF JCS, JCRC, AND DIA NO 2. 030 SURVIVAL PHASE REVISION 2				DWG NO. ADV-6670





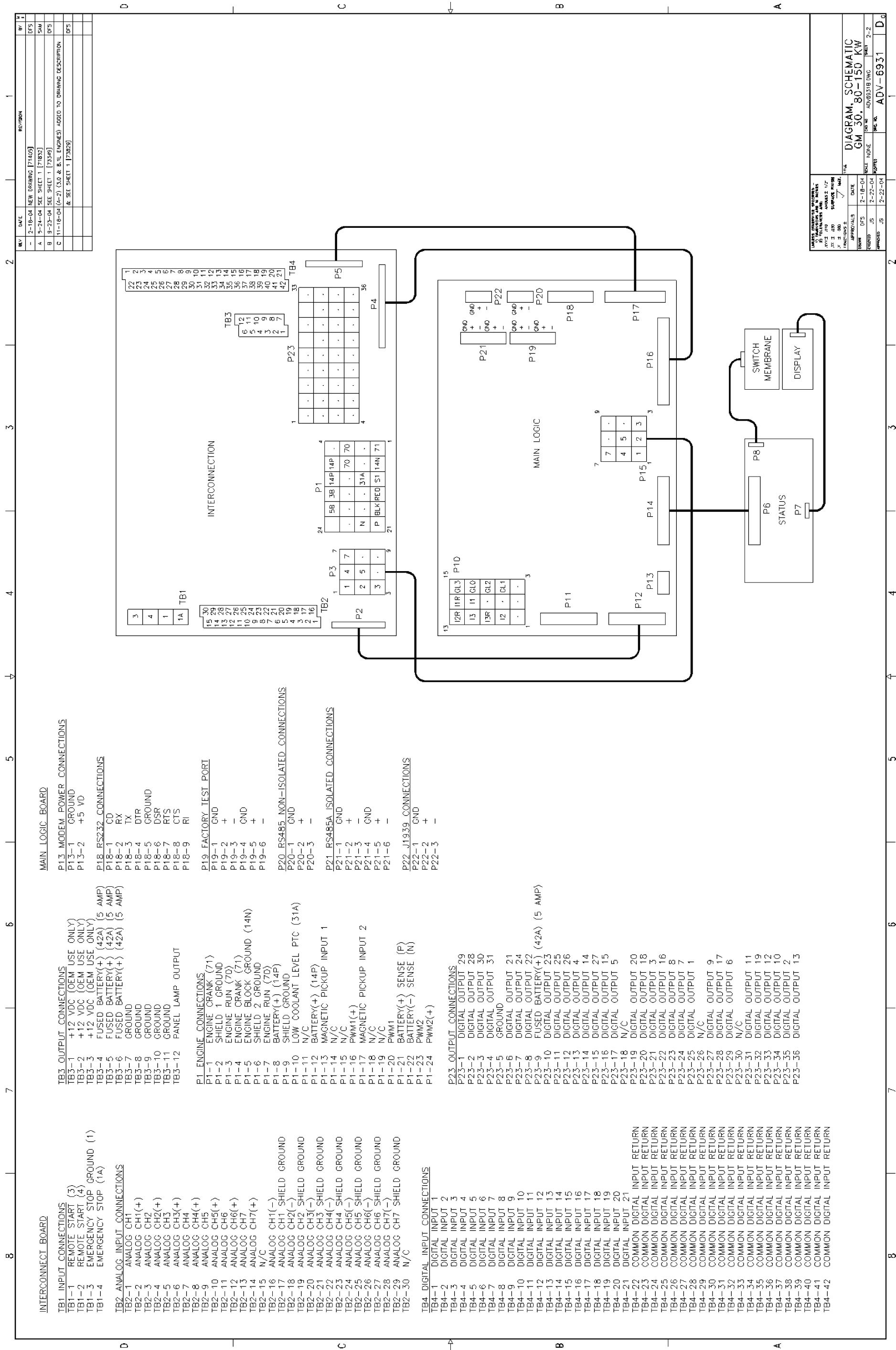
REV	DATE	REVISION	BY
B	10-13-03	SEL SHEET 1 [70556]	D/S
C	2-20-04	FUEL SYSTEM OPTIONS CONVERTED TO SCHEMATIC FORMAT, FUEL SYSTEM JUMPER NOTES CONVERTED TO CHART FORMAT [71405]	D/S
D	5-28-04	SEL SHEET 1 [71832]	D/S

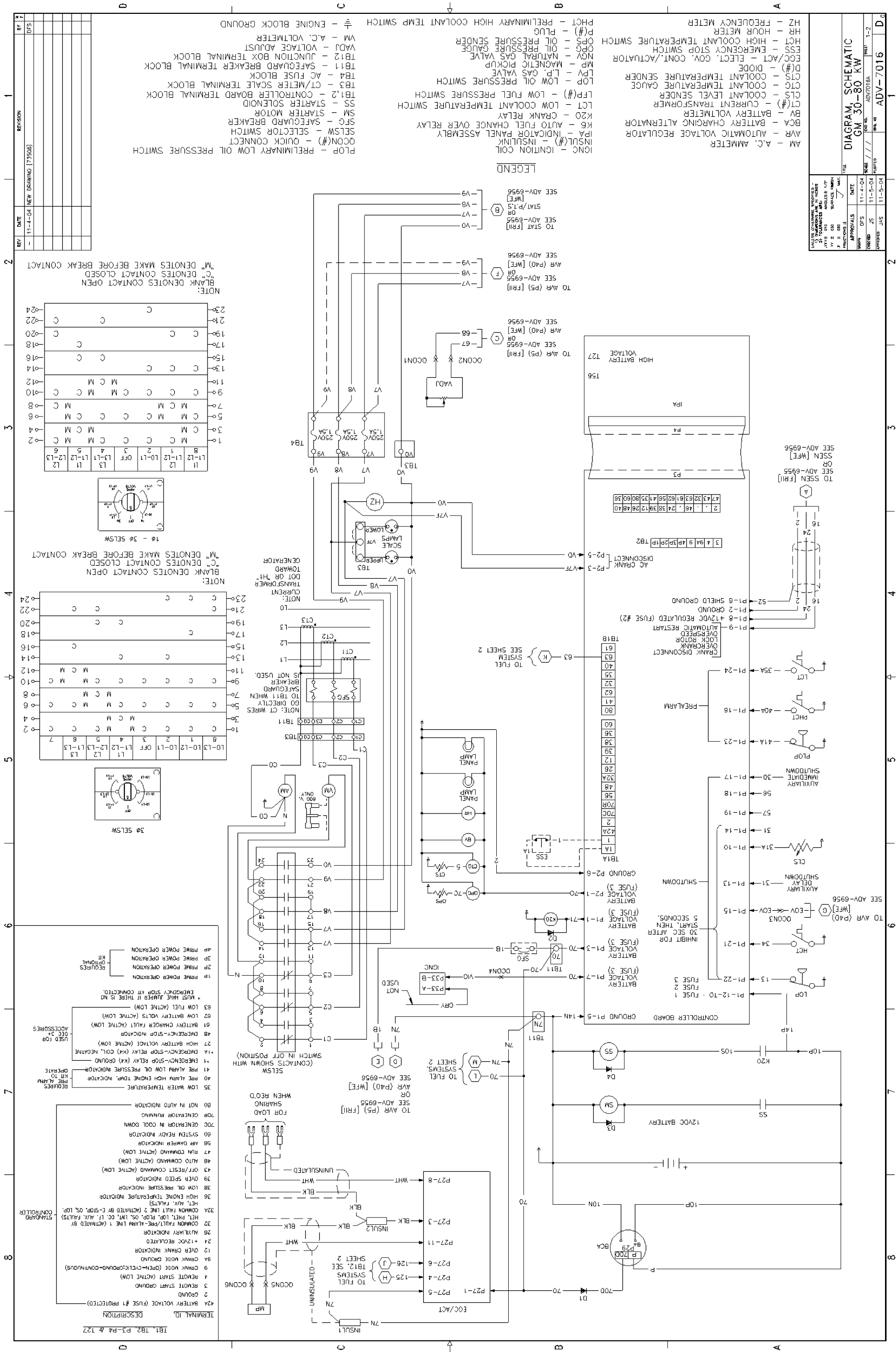


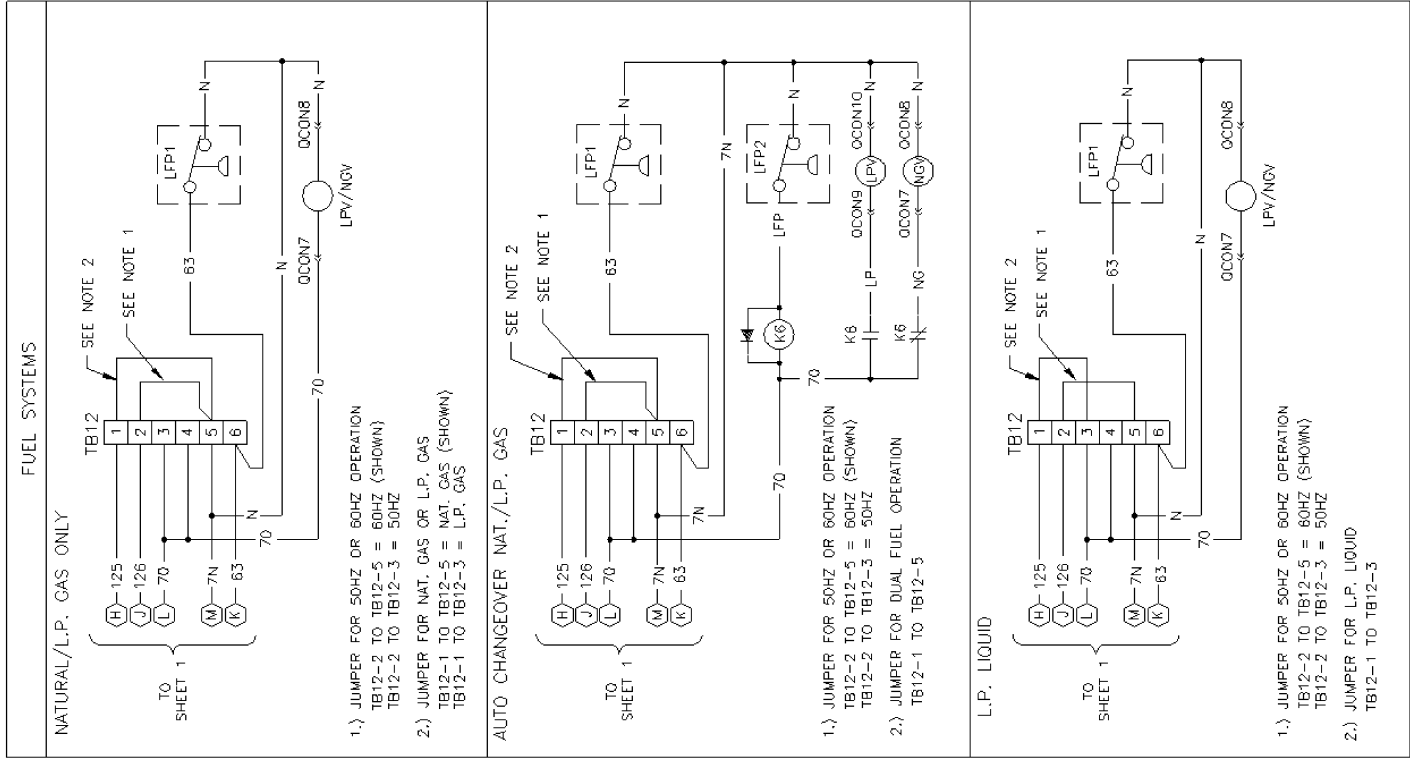
JUMPER CONNECTION CHART

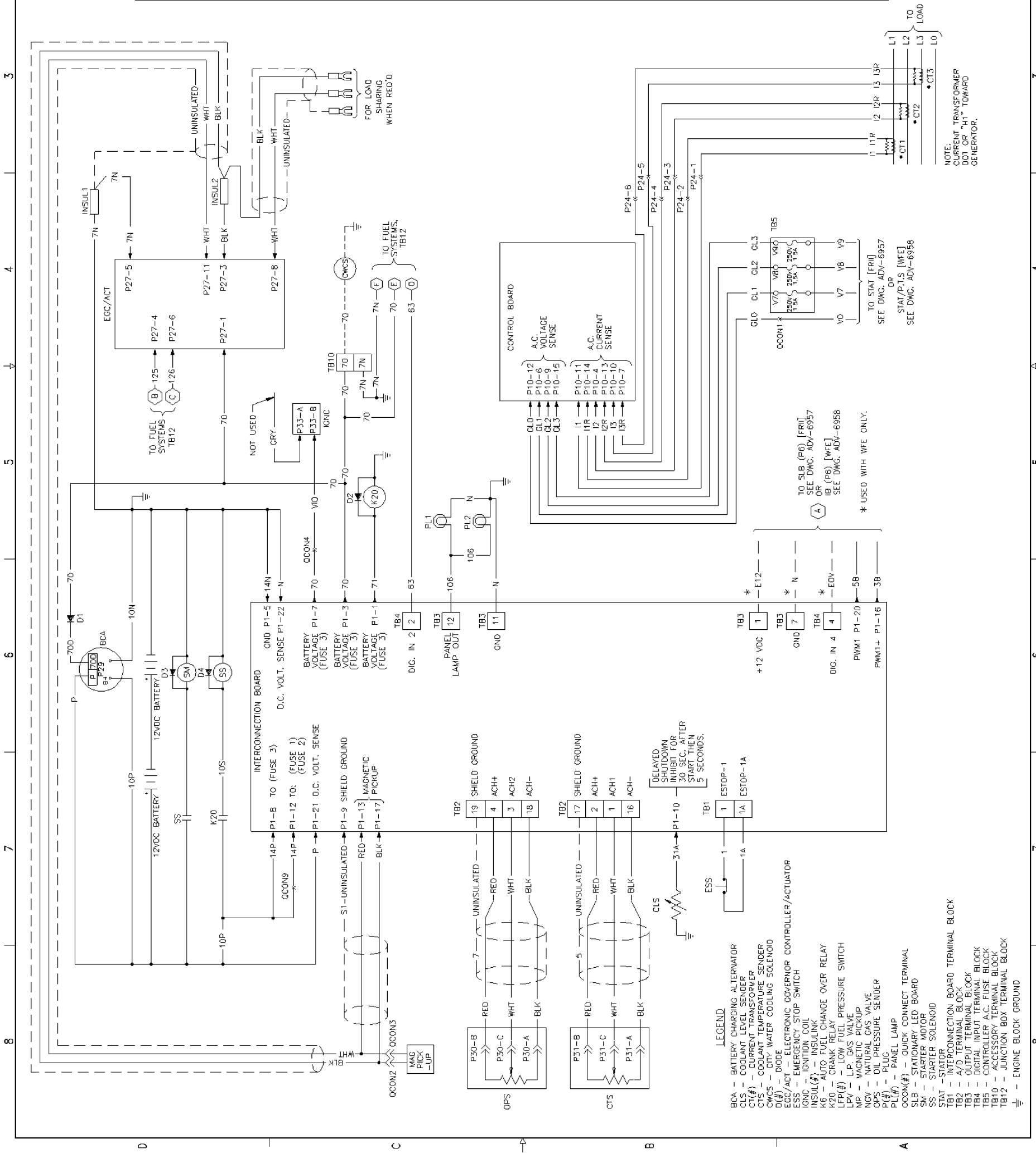
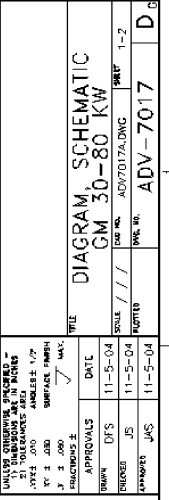
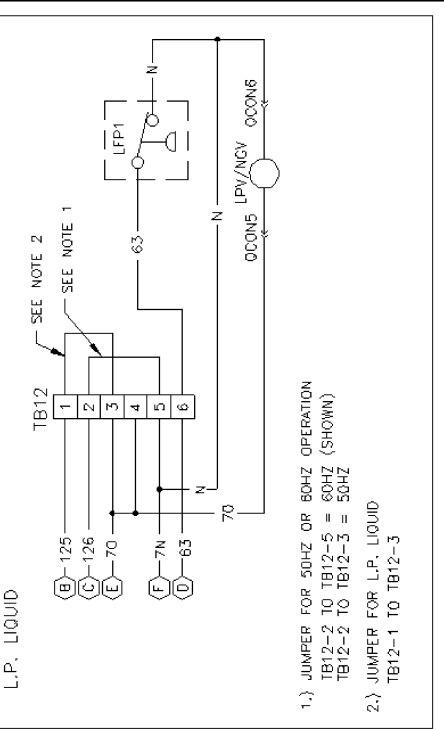
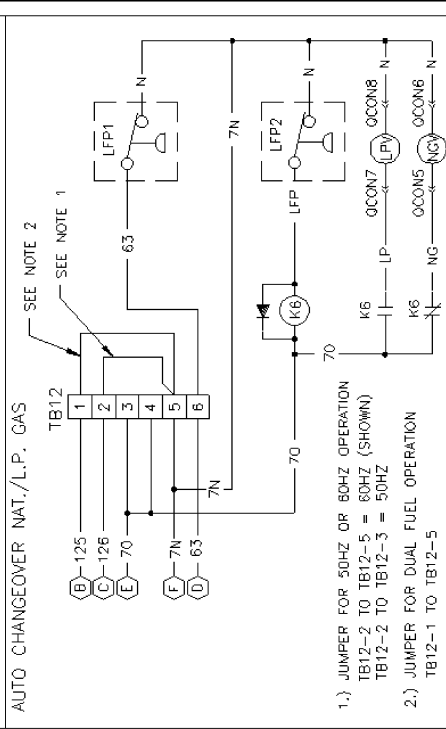
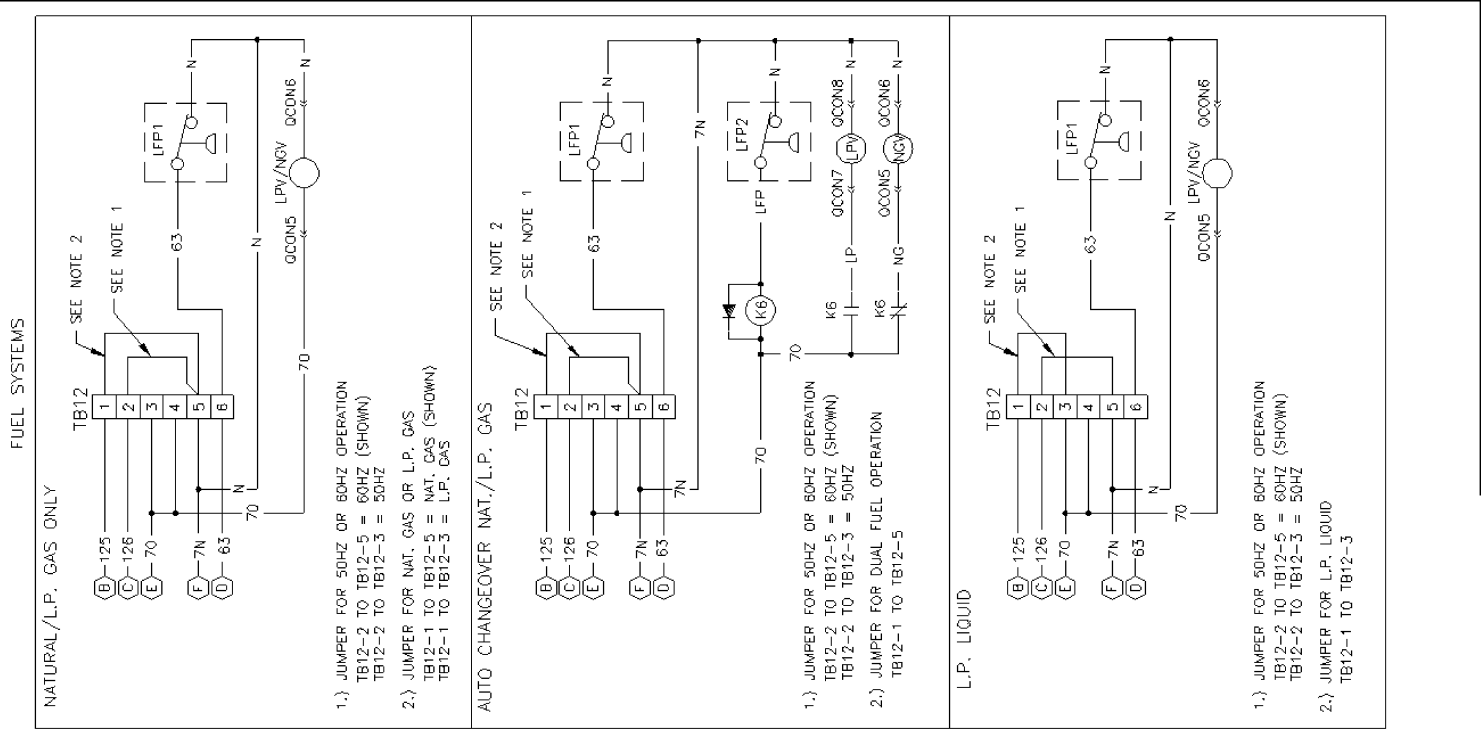
		L.P. GAS	NATURAL GAS
30kW	50Hz	TB12-1 TO TB12-3 AND TB12-2 TO TB12-3	TB12-2 TO TB12-3
	60Hz	TB12-1 TO TB12-3 AND TB12-1 TO TB12-5	NO JUMPERS
	80-150kW	50Hz AND 60Hz	TB12-2 TO TB12-5 NO JUMPERS

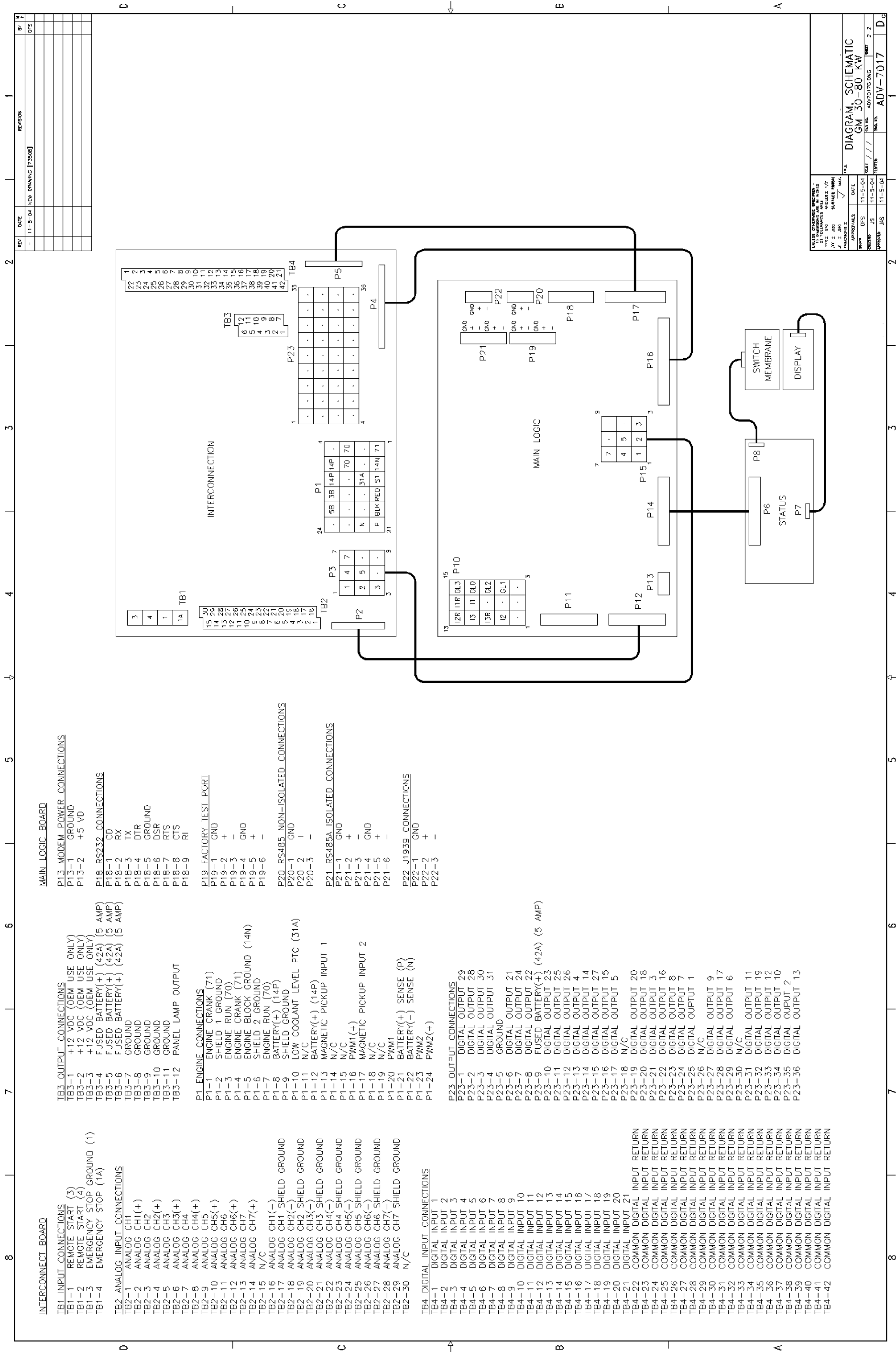
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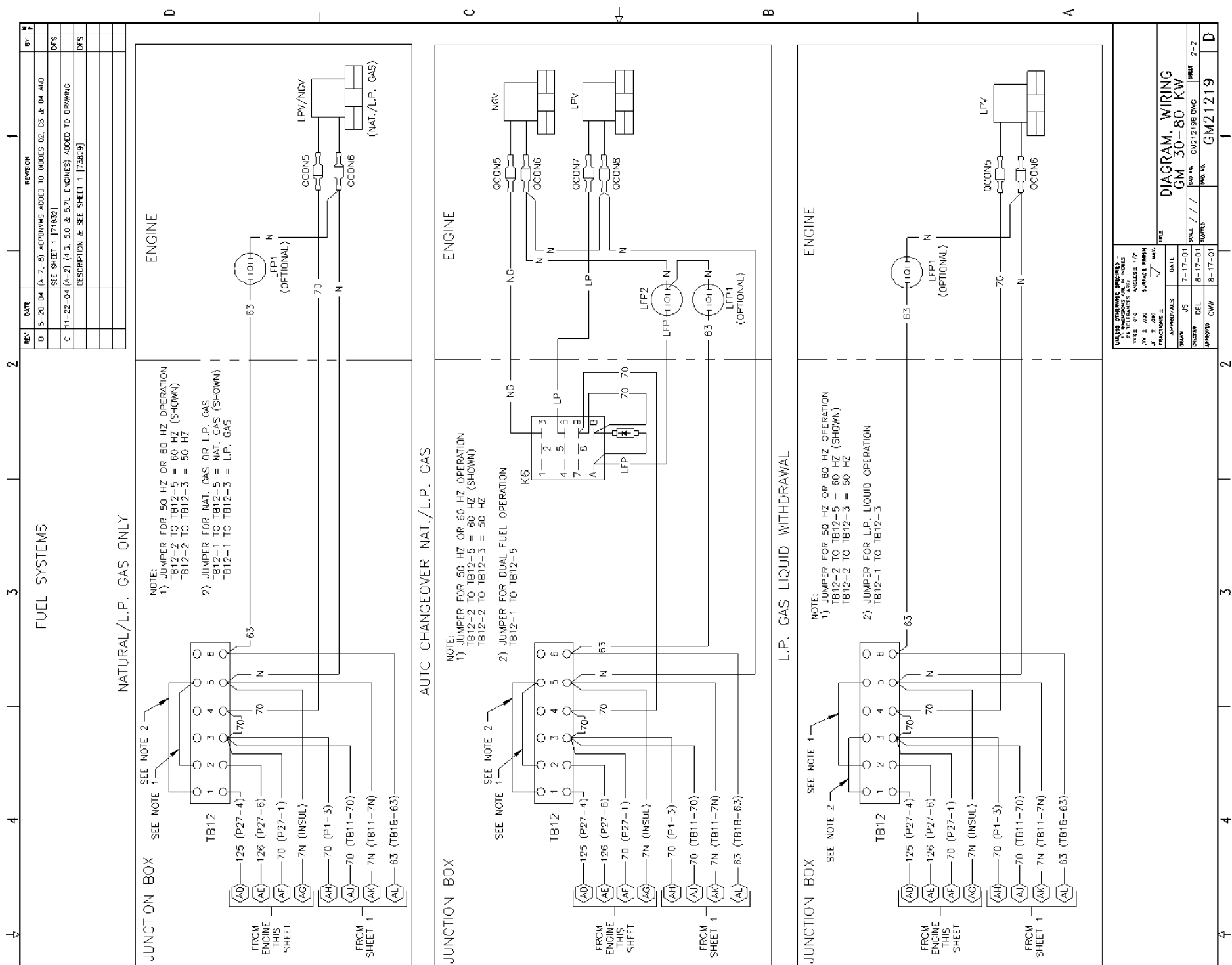
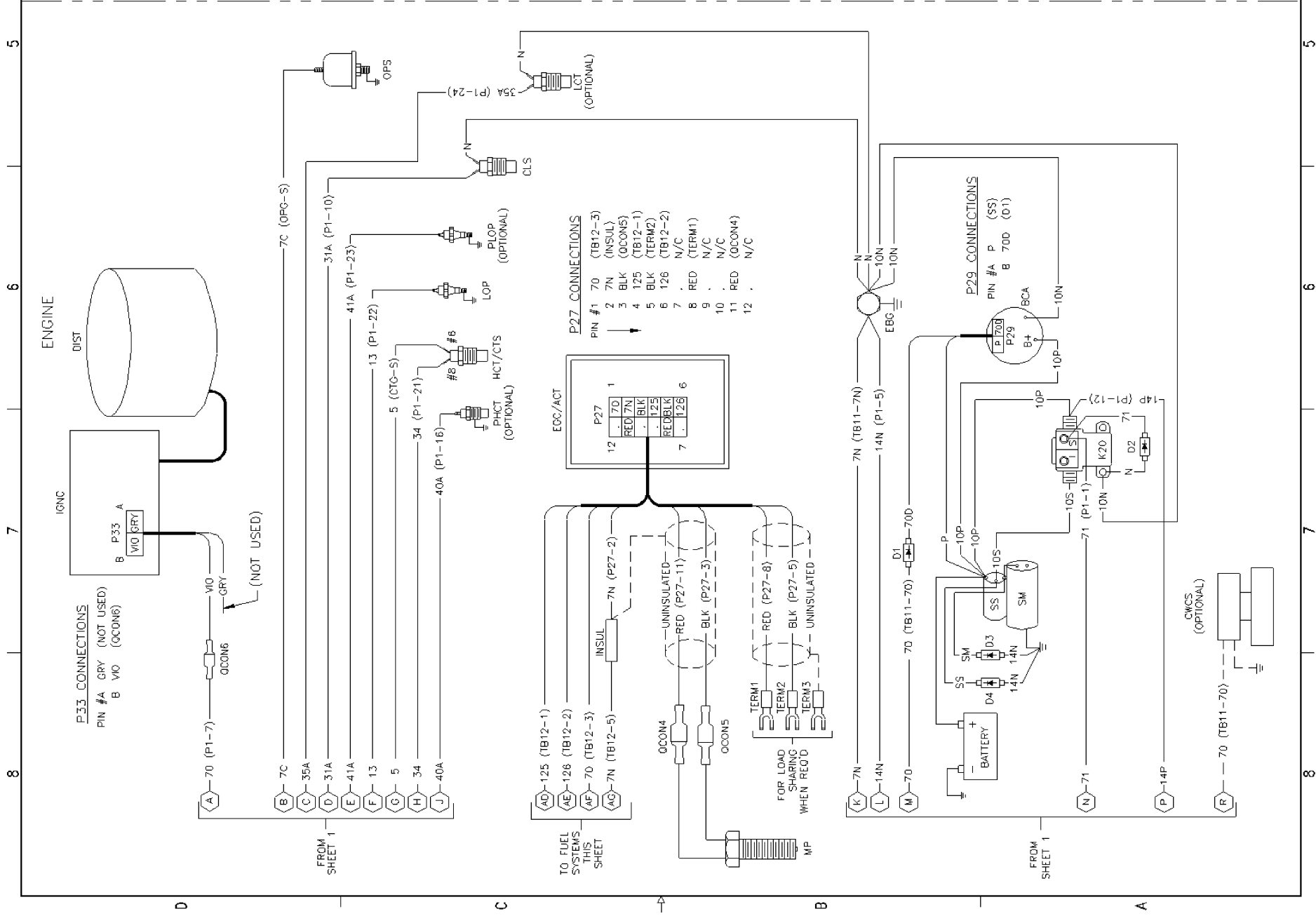


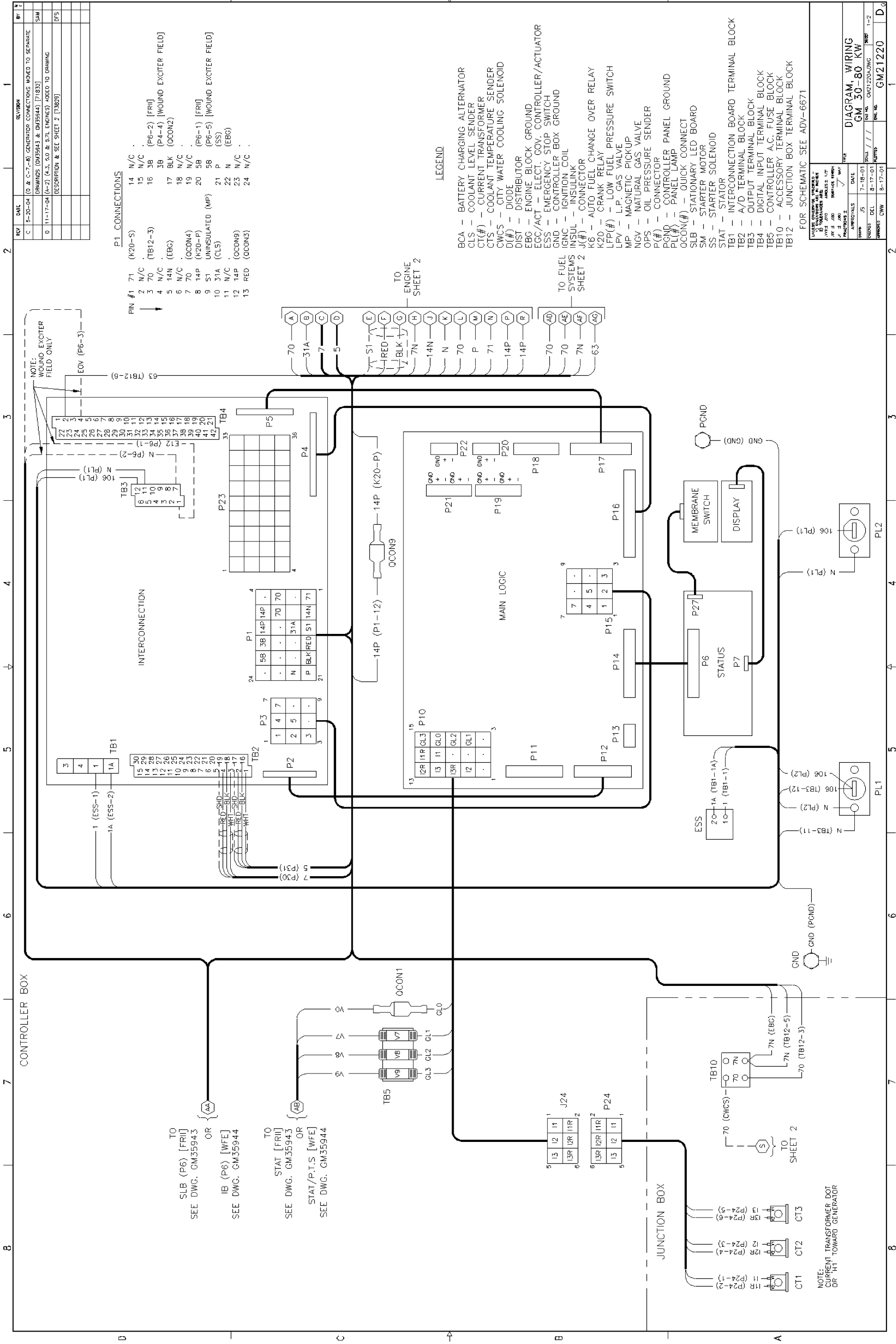


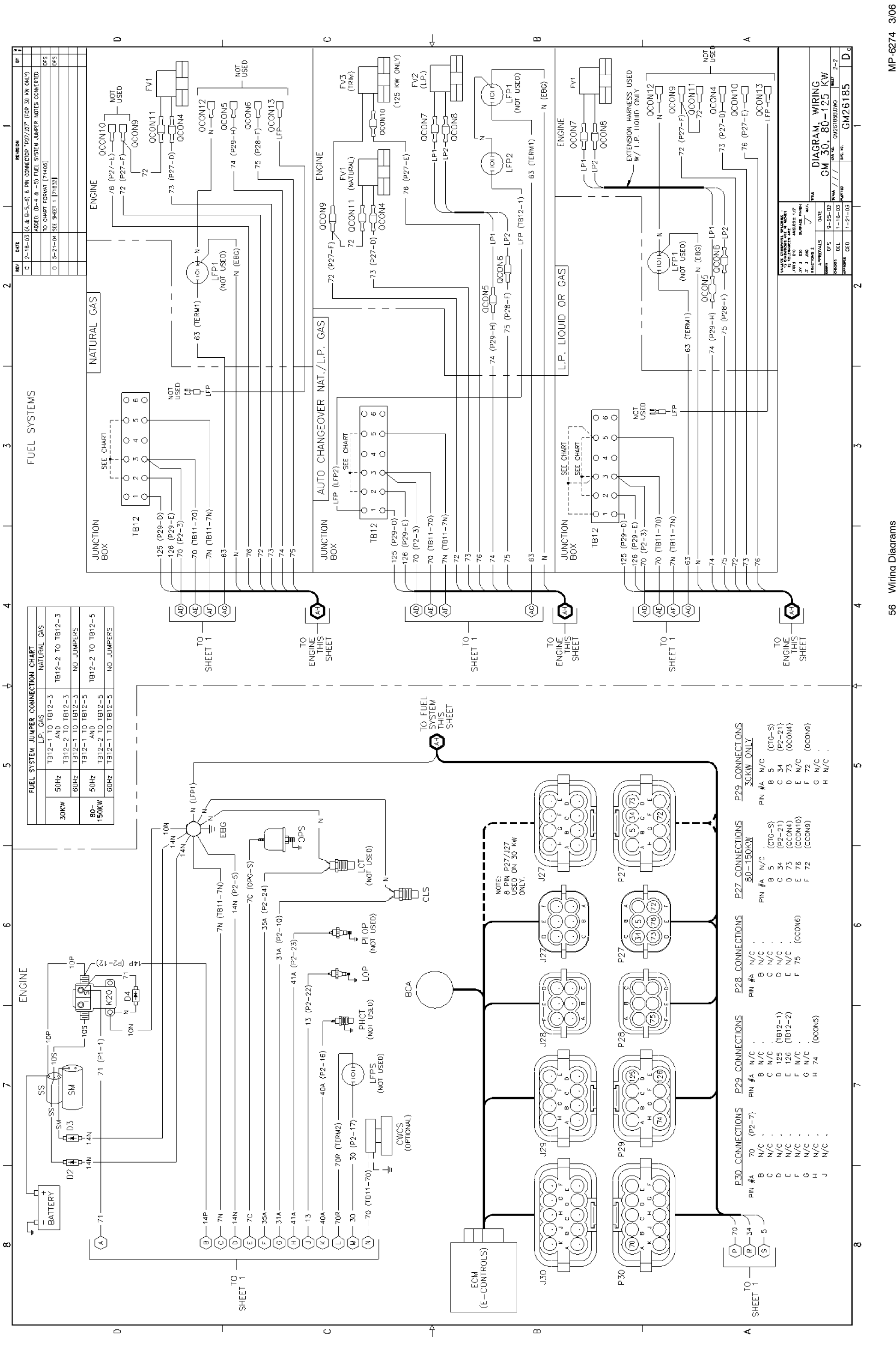
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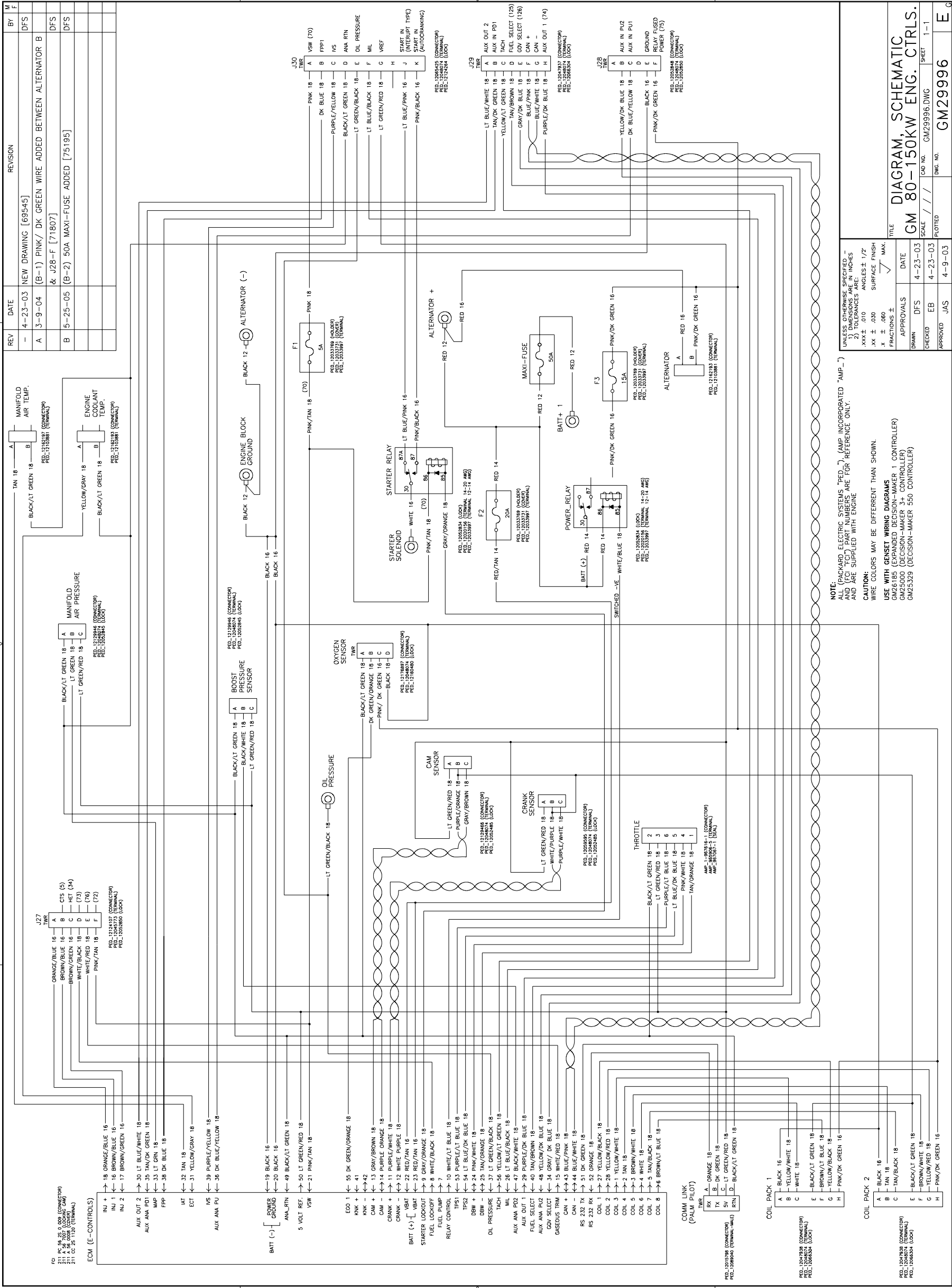


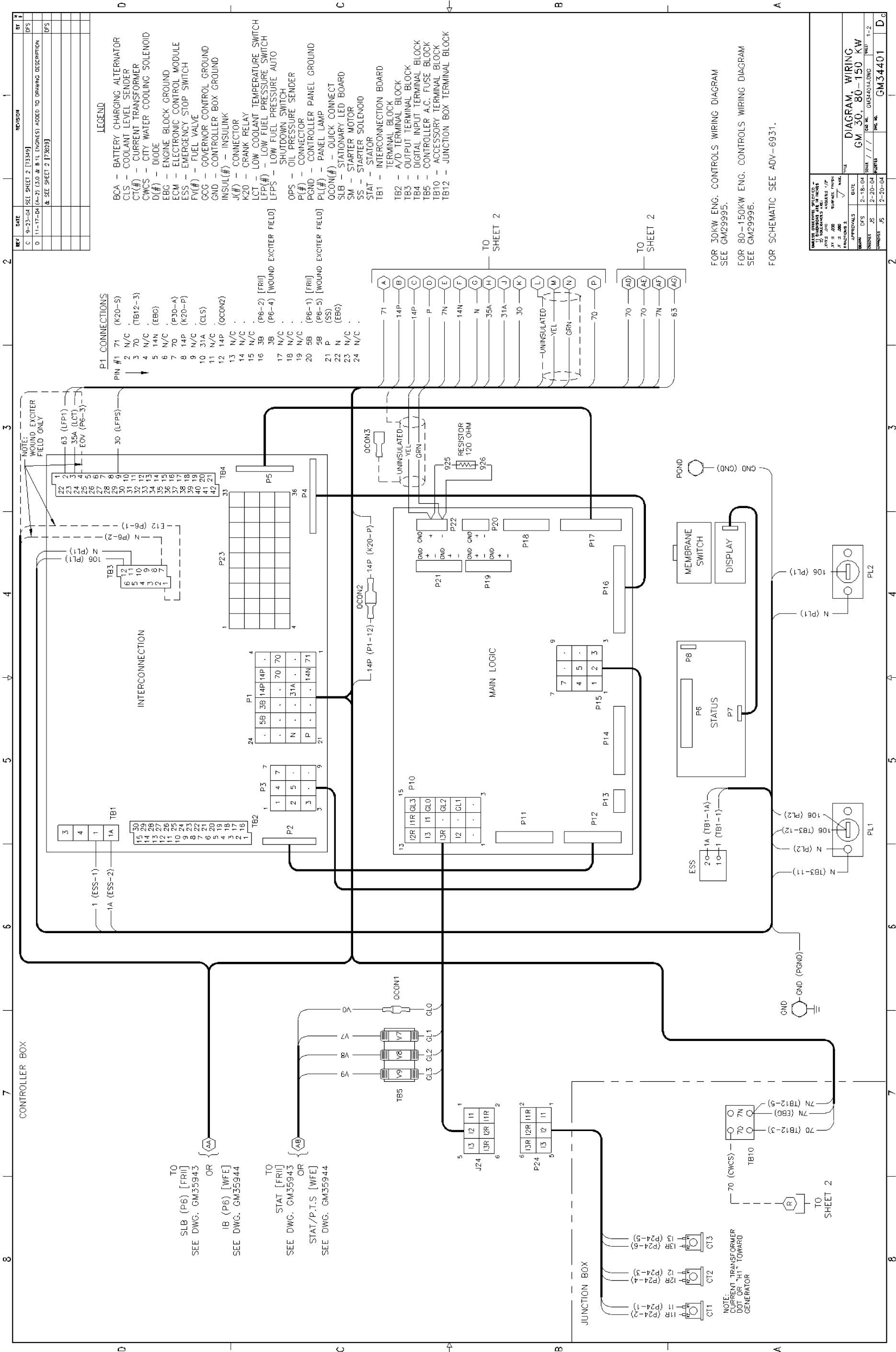
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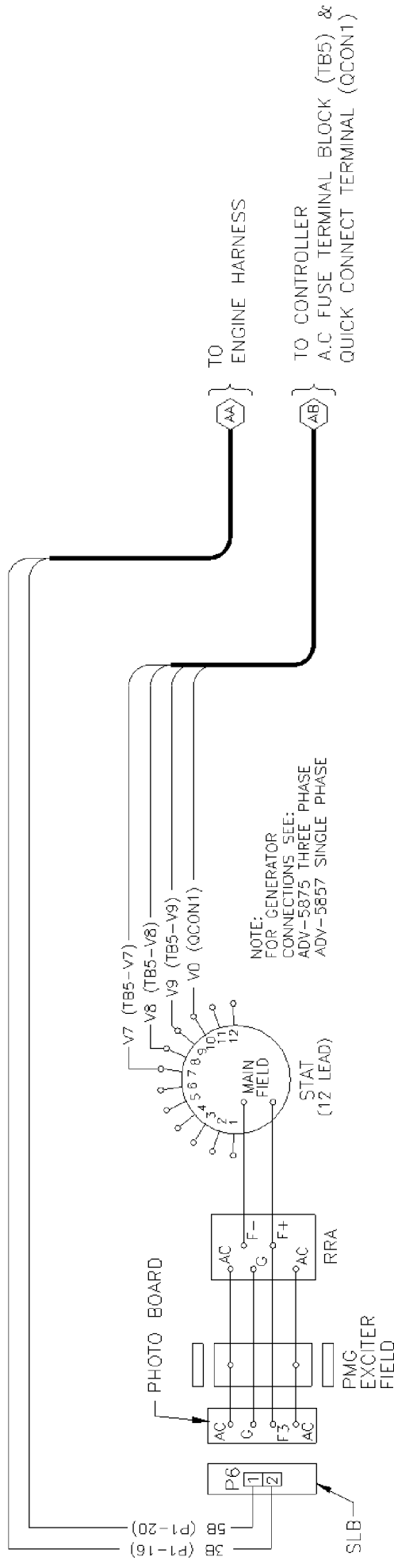
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GENERATOR

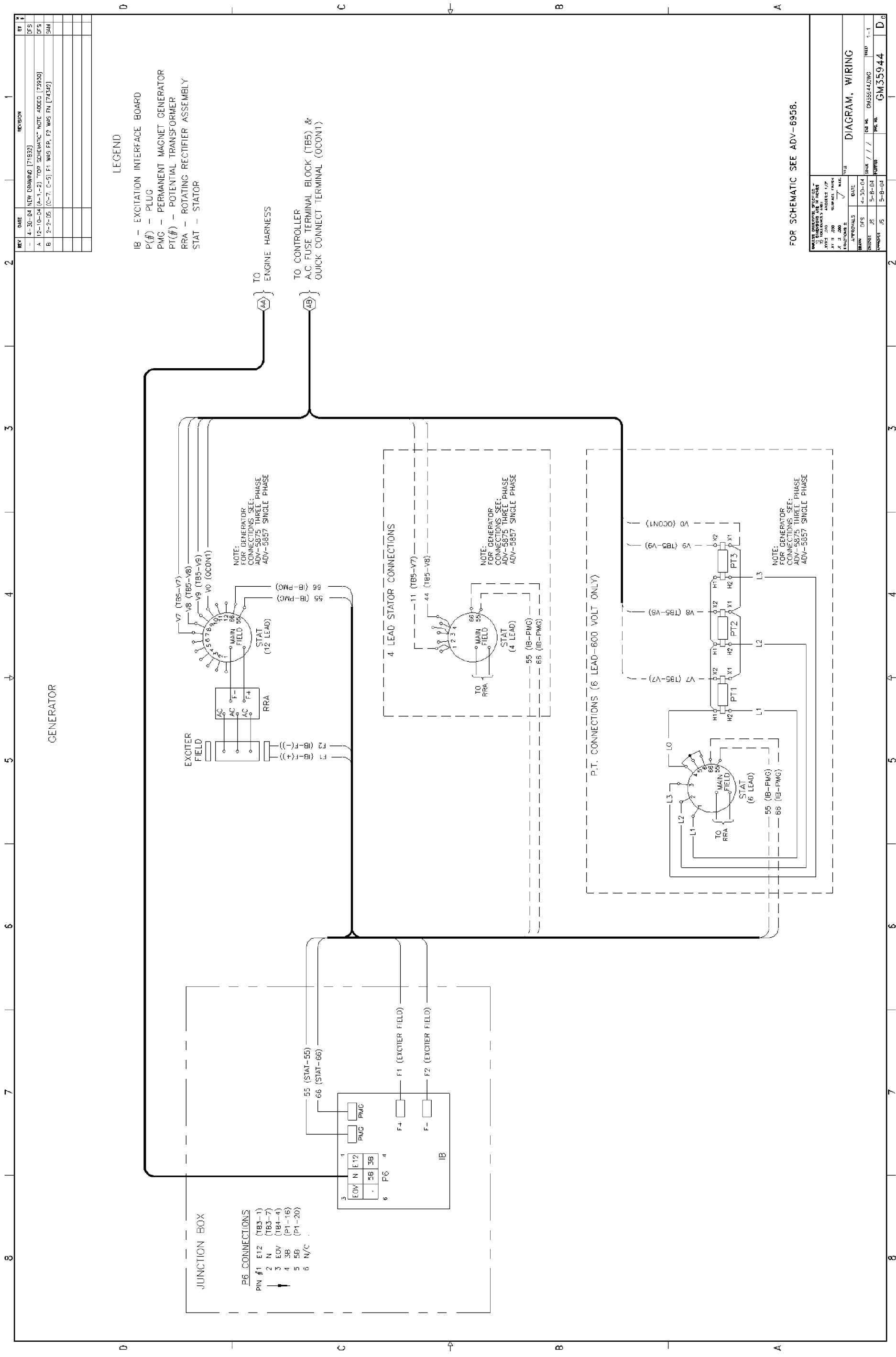


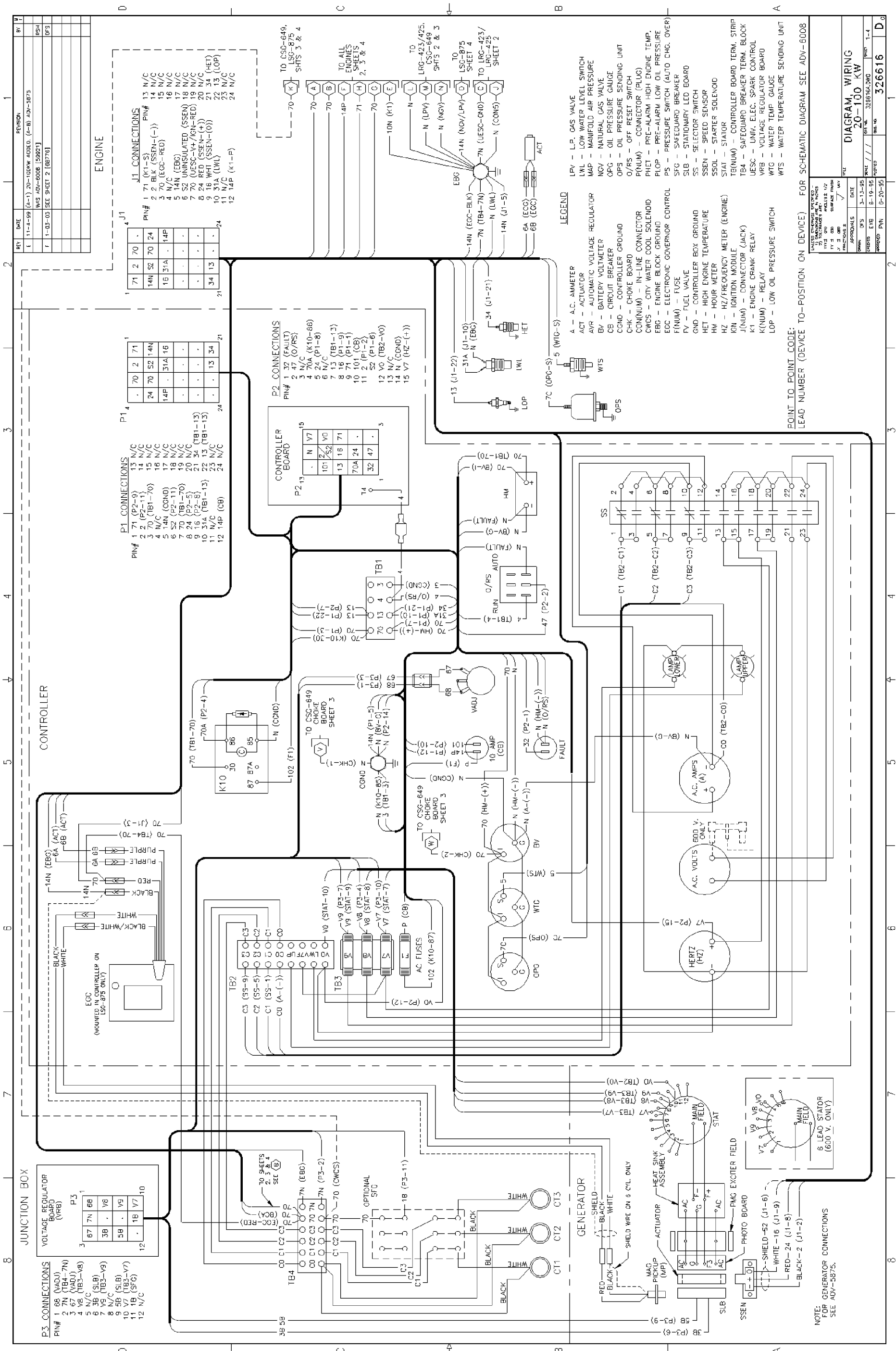
LEGEND

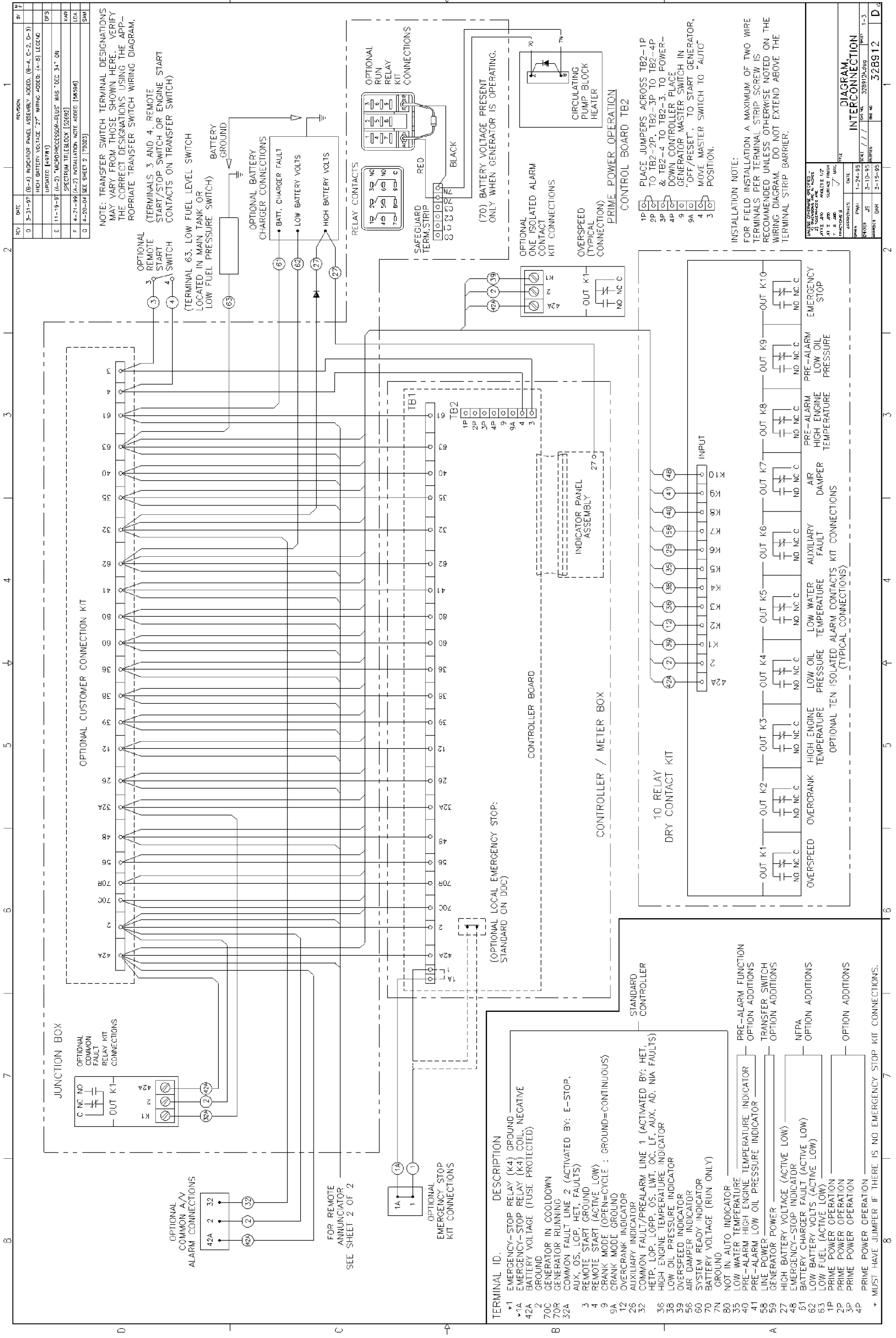
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- | | |
|---------------------------------------|---------------------------------------|
| PLUG | PLUG |
| PERMANENT MAGNET GENERATOR | PERMANENT MAGNET GENERATOR |
| ROTATING RECTIFIER ASSEMBLY | ROTATING RECTIFIER ASSEMBLY |
| STATIONARY LIGHT EMITTING DIODE BOARD | STATIONARY LIGHT EMITTING DIODE BOARD |
| STATOR | STATOR |

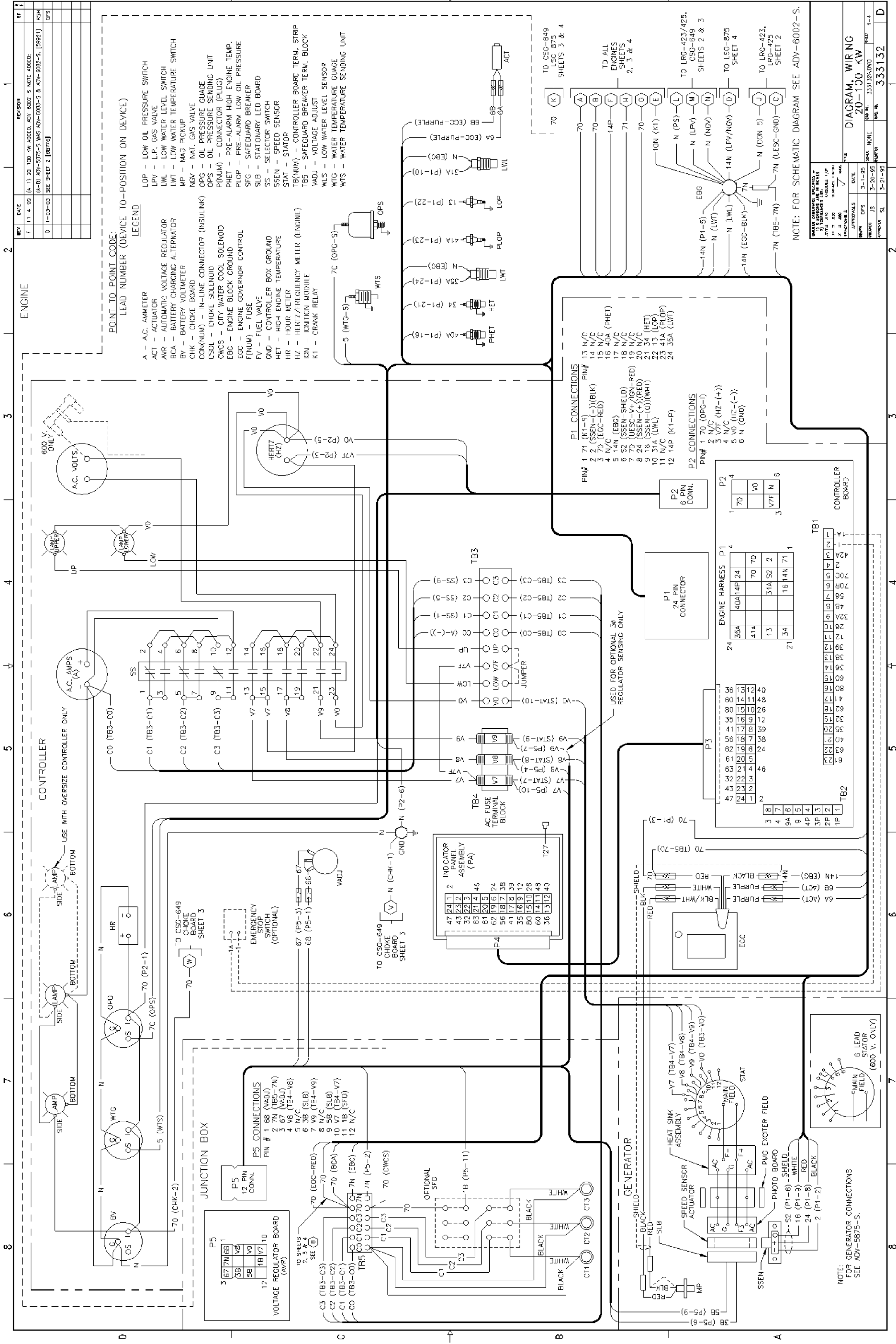
REV	DATE	REVISION	BY	DATE
-	4-30-04	NEW DRAWING [71832]	DJS	
A	12-10-04	(A-1) "FOR SCHEMATIC" NOTE ADDED [73930]	DJS	

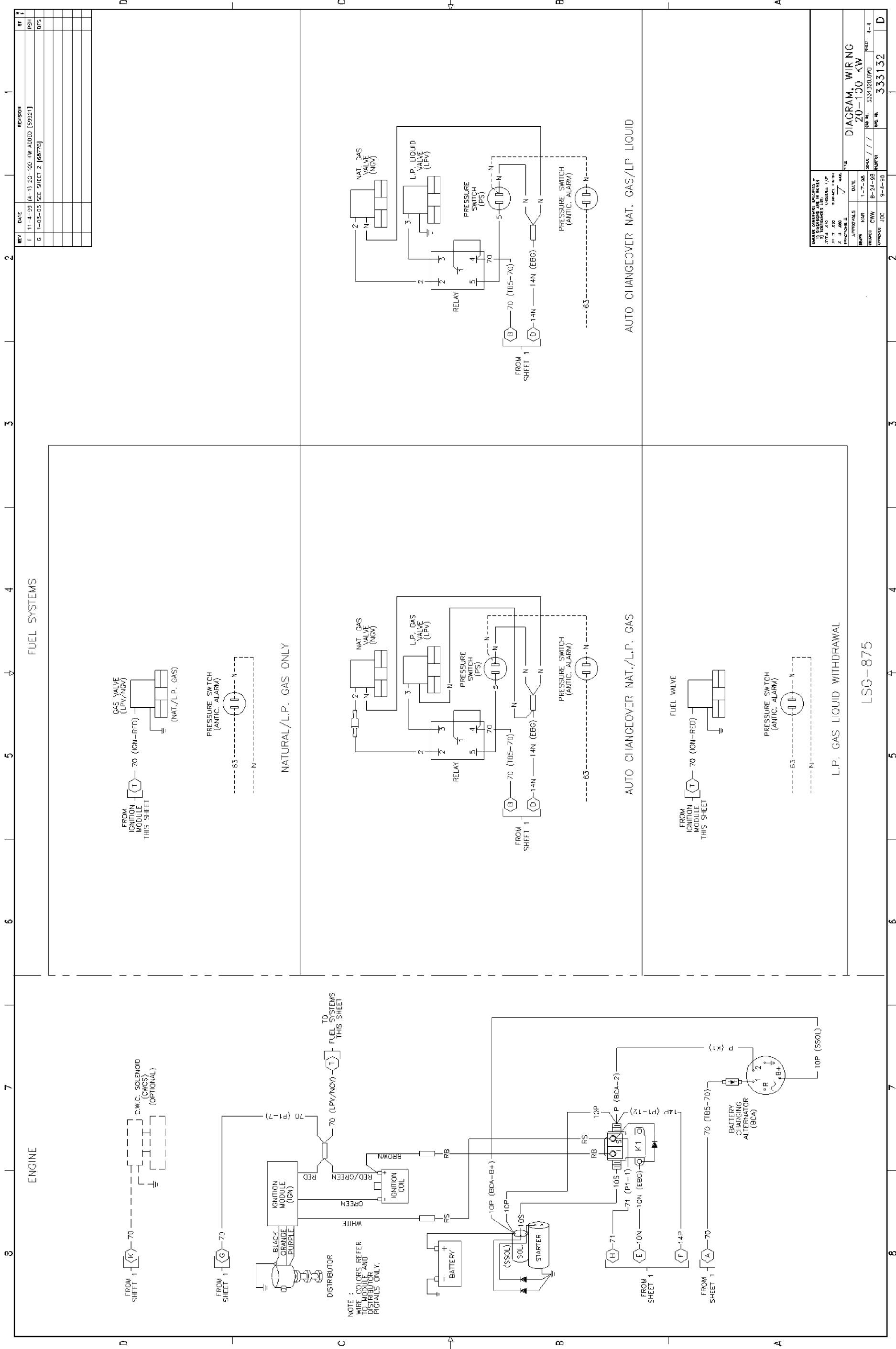
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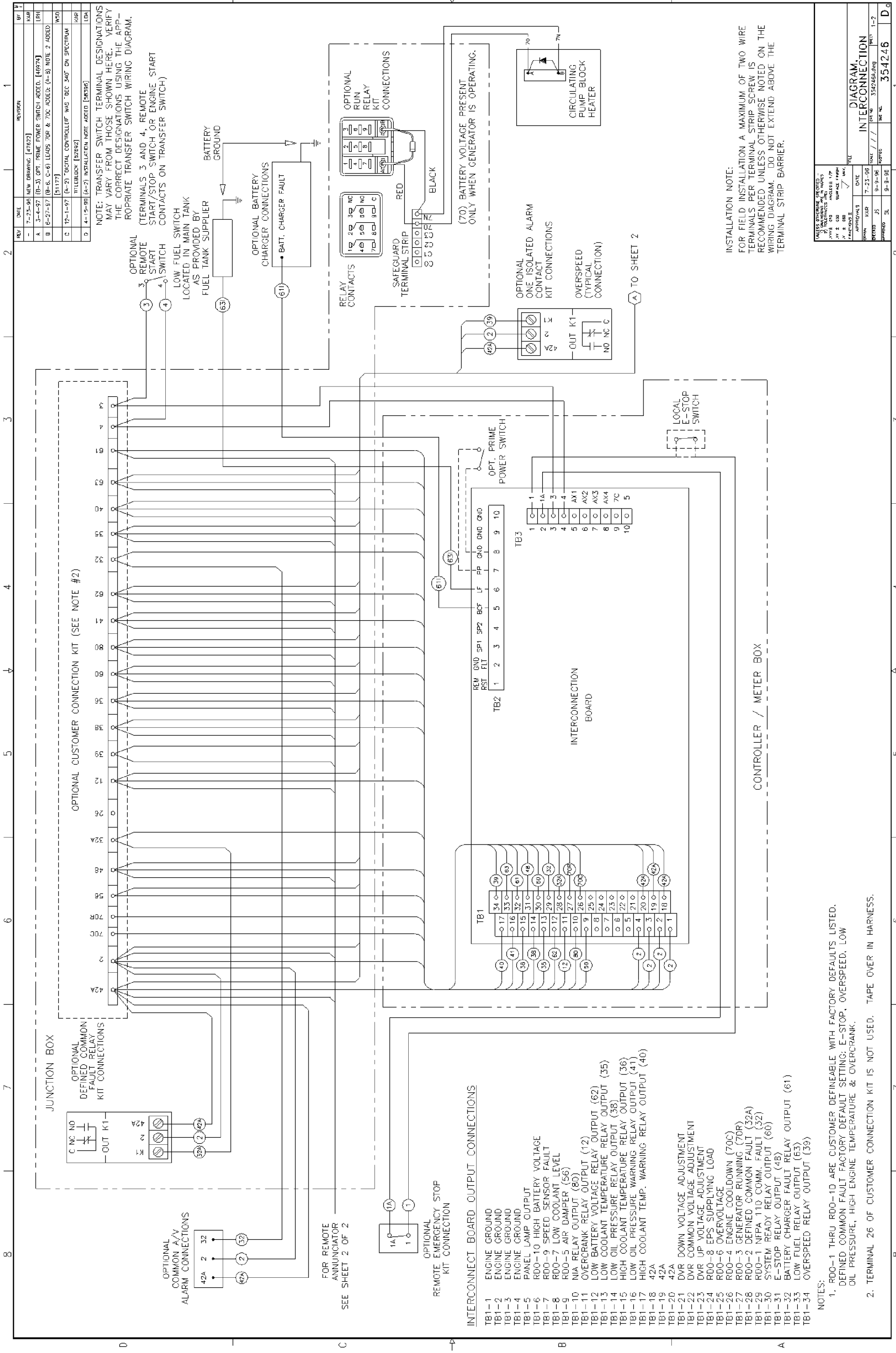












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