

Wiring Diagrams

Residential/Commercial Generator Sets



Models:

40-125ERES
50/60/80/125ERESB
80/100ERESD
125/150ERESC

Controllers:

Decision-Maker® 3+
Decision-Maker® 550
Decision-Maker® 3000

KOHLER®
Power Systems _____

9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-6791 2/16d

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 generator set models listed on the front cover and equipped with one of the following controllers:

- Decision-Maker® 3+
- Decision-Maker® 550
- Decision-Maker® 3000

Information in this publication represents data available at the time of print. Kohler Co. 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 Kohler distributor or dealer.

- Consult the Yellow Pages under the heading Generators—Electric.
- Visit the Kohler Power Systems website at KOHLERPower.com.
- Look at the labels and decals on your Kohler product or review the appropriate literature or documents included with the product.
- Call toll free in the US and Canada 1-800-544-2444.
- Outside the US and Canada, call the nearest regional office.

Headquarters Europe, Middle East, Africa (EMEA)

Kohler Power Systems Netherlands B.V.
Kristallaan 1
4761 ZC Zevenbergen
The Netherlands
Phone: (31) 168 331630
Fax: (31) 168 331631

Asia Pacific

Power Systems Asia Pacific Regional Office
Singapore, Republic of Singapore
Phone: (65) 6264-6422
Fax: (65) 6264-6455

China

North China Regional Office, Beijing
Phone: (86) 10 6518 7950
(86) 10 6518 7951
(86) 10 6518 7952
Fax: (86) 10 6518 7955

East China Regional Office, Shanghai
Phone: (86) 21 6288 0500
Fax: (86) 21 6288 0550

India, Bangladesh, Sri Lanka

India Regional Office
Bangalore, India
Phone: (91) 80 3366208
(91) 80 3366231
Fax: (91) 80 3315972

Japan, Korea

North Asia Regional Office
Tokyo, Japan
Phone: (813) 3440-4515
Fax: (813) 3440-2727

Latin America

Latin America Regional Office
Lakeland, Florida, USA
Phone: (863) 619-7568
Fax: (863) 701-7131

Notes

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.

To interpret the drawing numbers in the Wiring Diagrams Reference charts, see Figure 1. The first version of a drawing has no revision letter. Drawings are

arranged in alphanumerical order on the pages following the Controller Identification page.

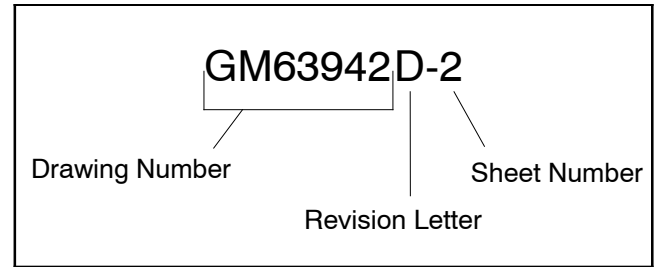


Figure 1 Drawing Number Interpretation

Wiring Diagram Cross-Reference

Generator Set Model No.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
40ERES	50/60	GM66092-GA7, 9, 11	1-1 or 1-2
45ERES	50/60	GM66092-GA8, 10, 12	1-1 or 1-2
50ERES	50/60	GM66910-GA4, 5, 6	2
50ERESB	50/60	GM79036-GA4, 5, 6	3
60ERES	50/60	GM66911-GA6, 7, 8	2
60ERESB	50/60	GM79037-GA4, 5, 6	3
80ERES	50/60	GM66590-GA5, 7, 11	2
80ERESB	60	GM71610-GA3	4
80ERESD	60	GM81112-GA2, 5	3
100ERES	50/60	GM66590-GA6, 8, 12	2
100ERESD	60	GM81112-GA8, 10	3
125ERES	50/60	GM65362-GA3, 4, 6	2
125ERESB	60	GM77561-GA3, 4, 6	3
125ERESC	60	GM81460-GA5, 6, 9 GM99493-GA5, 6, 9	5
150ERESC	60	GM80580-GA7, 8, 9 GM99599-GA7, 8, 9	5

40/45ERES Wiring Diagrams Reference

Controller Description	Version 1-1	Version 1-2
Decision-Maker® 3+ Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM63942D-1	—
Sheet 2	GM63942D-2	—
Sheet 3	GM63942D-3	—
Permanent Magnet Alternator	GM35941G	—
Schematic Diagram		
Sheet 1	ADV-7601D-1	—
Sheet 2	ADV-7601D-2	—
Sheet 4	ADV-7601D-4	—
Permanent Magnet Alternator	ADV-6955C	
Accessory Connections		
Accessories	328912H-1	—
Remote Annunciator Kit	328912H-2	—
Decision-Maker® 550 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM63941D-1	GM77410C-1
Sheet 2	GM63941D-2	GM77410C-2
Sheet 3	GM63941D-3	GM77410C-3
Permanent Magnet Alternator	GM35943D	GM35943D
Schematic Diagram		
Sheet 1	ADV-7600F-1	ADV-7963B-1
Sheet 2	ADV-7600F-2	ADV-7963B-2
Sheet 3	ADV-7600F-3	ADV-7963B-3
Sheet 5	ADV-7600F-5	ADV-7963B-5
Permanent Magnet Alternator	ADV-6957B	ADV-6957B
Accessory Connections		
Sheet 1	GM16088H-1	GM78247E-1
Sheet 2	GM16088H-2	GM78247E-3
Sheet 3	—	GM78247E-4
Decision-Maker® 3000 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM73379B-1	GM77411F-1
Sheet 2	GM73379B-2	GM77411F-2
Sheet 3	GM73379B-3	GM77411F-3
Permanent Magnet Alternator	GM35943D	GM35943D
Schematic Diagram		
Sheet 1	ADV-7834C-1	ADV-7964E-1
Sheet 2	ADV-7834C-2	ADV-7964E-2
Sheet 4	ADV-7834C-4	ADV-7964E-4
Permanent Magnet Alternator	ADV-6957B	ADV-6957B
Accessory Connections		
Sheet 1	GM67191B	GM78246B-1
Sheet 2	—	GM78246B-2
Alternator Reconnections		
4-Lead	ADV-5875U-1	ADV-5875U-1
12-Lead	ADV-5875U-2	ADV-5875U-2

Note: Use Version 1-1 with control and harness module numbers GM69425-MA1, GM71696-MA3, GM71699-MA3, and GM72450-MA1. Use Version 1-2 with control and harness module numbers GM77347-MA1, GM77348-MA1, GM77349-MA3, and GM77350-MA3. The module numbers are listed on a nameplate decal located on the generator set controller or junction box.

50-125ERES Wiring Diagrams Reference

Controller Description	Version 2
Decision-Maker® 3+ Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM70544D-1
Sheet 2	GM70544D-2
Sheet 3	GM70544D-3
Sheet 4	GM70544D-4
Permanent Magnet Alt.	GM35941G
Schematic Diagram	
Sheet 1	ADV-7738C-1
Sheet 2	ADV-7738C-2
Sheet 3	ADV-7738C-3
Sheet 4	ADV-7738C-4
Sheet 5	ADV-7738C-5
Sheet 6	ADV-7738C-6
Permanent Magnet Alt.	ADV-6955C
Accessory Connections	
Accessories	328912H-1
Remote Annunciator Kit	328912H-2
Decision-Maker® 550 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM70545D-1
Sheet 2	GM70545D-2
Sheet 3	GM70545D-3
Sheet 4	GM70545D-4
Permanent Magnet Alt.	GM35943D
Schematic Diagram	
Sheet 1	ADV-7737C-1
Sheet 2	ADV-7737C-2
Sheet 3	ADV-7737C-3
Sheet 4	ADV-7737C-4
Sheet 5	ADV-7737C-5
Sheet 6	ADV-7737C-6
Sheet 7	ADV-7737C-7
Permanent Magnet Alt.	ADV-6957B
Accessory Connections	
Accessories	GM16088H-1
Remote Annunciator Kit	GM16088H-2

Controller Description	Version 2
Decision-Maker® 3000 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM72401E-1
Sheet 2	GM72401E-2
Sheet 3	GM72401E-3
Sheet 4	GM72401E-4
Permanent Magnet Alt.	GM35943D
Schematic Diagram	
Sheet 1	ADV-7861F-1
Sheet 2	ADV-7861F-2
Sheet 3	ADV-7861F-3
Sheet 4	ADV-7861F-4
Sheet 5	ADV-7861F-5
Sheet 6	ADV-7861F-6
Permanent Magnet Alt.	ADV-6957B
Accessory Connections	
Accessories	GM67191B
Alternator Reconnections	
4-Lead	ADV-5875U-1
12-Lead	ADV-5875U-2

50/60/125ERESB and 80/100ERESD Wiring Diagrams Reference

Controller Description	Version 3
Decision-Maker® 550 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM77412C-1
Sheet 2	GM77412C-2
Sheet 3	GM77412C-3
Sheet 4	GM77412C-4
Permanent Magnet Alternator	GM35943D
Schematic Diagram	
Sheet 1	ADV-7965D-1
Sheet 2	ADV-7965D-2
Sheet 3	ADV-7965D-3
Sheet 4	ADV-7965D-4
Sheet 5	ADV-7965D-5
Sheet 6	ADV-7965D-6
Sheet 7	ADV-7965D-7
Permanent Magnet Alternator	ADV-6957B
Accessory Connections	
Sheet 1	GM78247E-1
Sheet 3	GM78247E-3
Sheet 4	GM78247E-4
Decision-Maker® 3000 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM77413D-1
Sheet 2	GM77413D-2
Sheet 3	GM77413D-3
Sheet 4	GM77413D-4
Permanent Magnet Alternator	GM35943D
Schematic Diagram	
Sheet 1	ADV-7966C-1
Sheet 2	ADV-7966C-2
Sheet 3	ADV-7966C-3
Sheet 4	ADV-7966C-4
Sheet 5	ADV-7966C-5
Sheet 6	ADV-7966C-6
Permanent Magnet Alternator	ADV-6957B
Accessory Connections	
Sheet 1	GM78246B-1
Sheet 2	GM78246B-2
Alternator Reconnections	
4-Lead	ADV-5875U-1
12-Lead	ADV-5875U-2

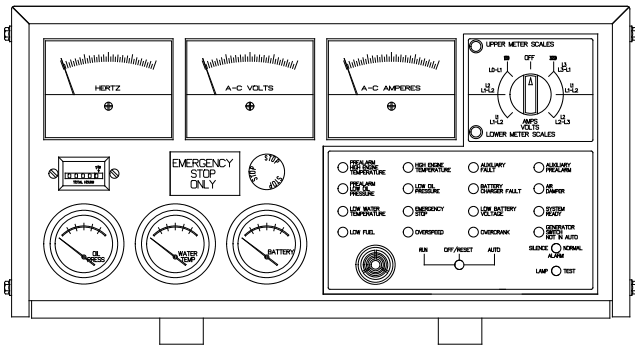
80ERESB Wiring Diagrams Reference

Controller Description	Version 4
Decision-Maker® 550 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM70545D-1
Sheet 2	GM70545D-2
Sheet 3	GM70545D-3
Sheet 4	GM70545D-4
Permanent Magnet Alternator	GM35943D
Schematic Diagram	
Sheet 1	ADV-7737C-1
Sheet 2	ADV-7737C-2
Sheet 3	ADV-7737C-3
Sheet 4	ADV-7737C-4
Sheet 5	ADV-7737C-5
Sheet 6	ADV-7737C-6
Sheet 7	ADV-7737C-7
Permanent Magnet Alternator	ADV-6957B
Accessory Connections	
Accessories	GM16088H-1
Remote Annunciator Kit	GM16088H-2
Decision-Maker® 3000 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM72401E-1
Sheet 2	GM72401E-2
Sheet 3	GM72401E-3
Sheet 4	GM72401E-4
Permanent Magnet Alternator	GM35943D
Schematic Diagram	
Sheet 1	ADV-7861F-1
Sheet 2	ADV-7861F-2
Sheet 3	ADV-7861F-3
Sheet 4	ADV-7861F-4
Sheet 5	ADV-7861F-5
Sheet 6	ADV-7861F-6
Permanent Magnet Alternator	ADV-6957B
Accessory Connections	
Accessories	GM67191B
Alternator Reconnections	
4-Lead	ADV-5875U-1
12-Lead	ADV-5875U-2

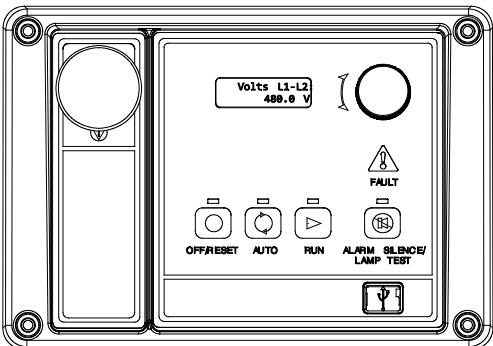
125/150ERESC Wiring Diagrams Reference

Controller Description	Version 5
Decision-Maker® 550 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM77412C-1
Sheet 2	GM77412C-2
Sheet 3	GM77412C-3
Sheet 4	GM77412C-4
Permanent Magnet Alternator	GM35943D
Schematic Diagram	
Sheet 1	ADV-7965D-1
Sheet 2	ADV-7965D-2
Sheet 3	ADV-7965D-3
Sheet 4	ADV-7965D-4
Sheet 5	ADV-7965D-5
Sheet 6	ADV-7965D-6
Sheet 7	ADV-7965D-7
Permanent Magnet Alternator	ADV-6957B
Accessory Connections	
Sheet 1	GM78247E-1
Sheet 3	GM78247E-3
Sheet 4	GM78247E-4
Decision-Maker® 3000 Controller	
Point-to-Point Wiring Diagram	
Sheet 1	GM89520B-1
Sheet 2	GM89520B-2
Sheet 3	GM89520B-3
Permanent Magnet Alternator	GM35943D
Schematic Diagram	
Sheet 1	ADV-8557B-1
Sheet 2	ADV-8557B-2
Sheet 3	ADV-8557B-3
Sheet 4	ADV-8557B-4
Permanent Magnet Alternator	ADV-6957B
Accessory Connections	
Sheet 1	GM78246B-1
Sheet 2	GM78246B-2
Alternator Reconnections	
4-Lead	ADV-5875U-1
12-Lead	ADV-5875U-2

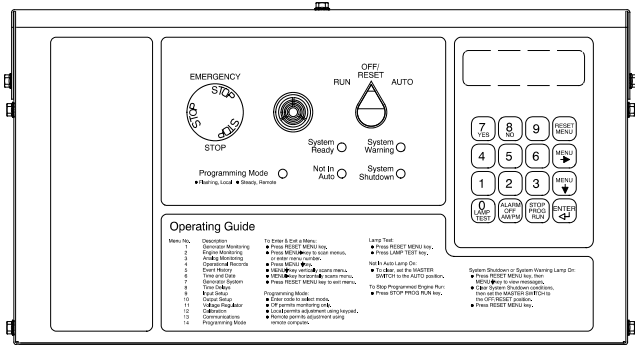
Controller Identification



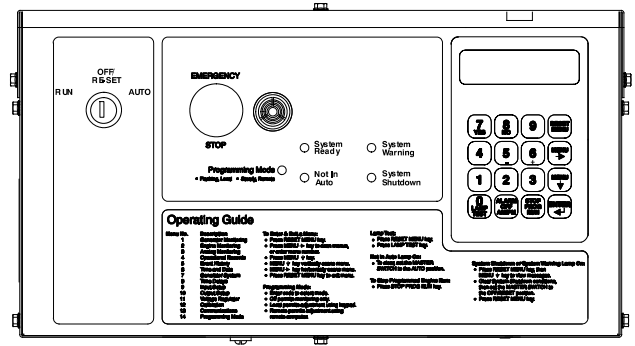
Decision-Maker® 3+, 16-Light Controller



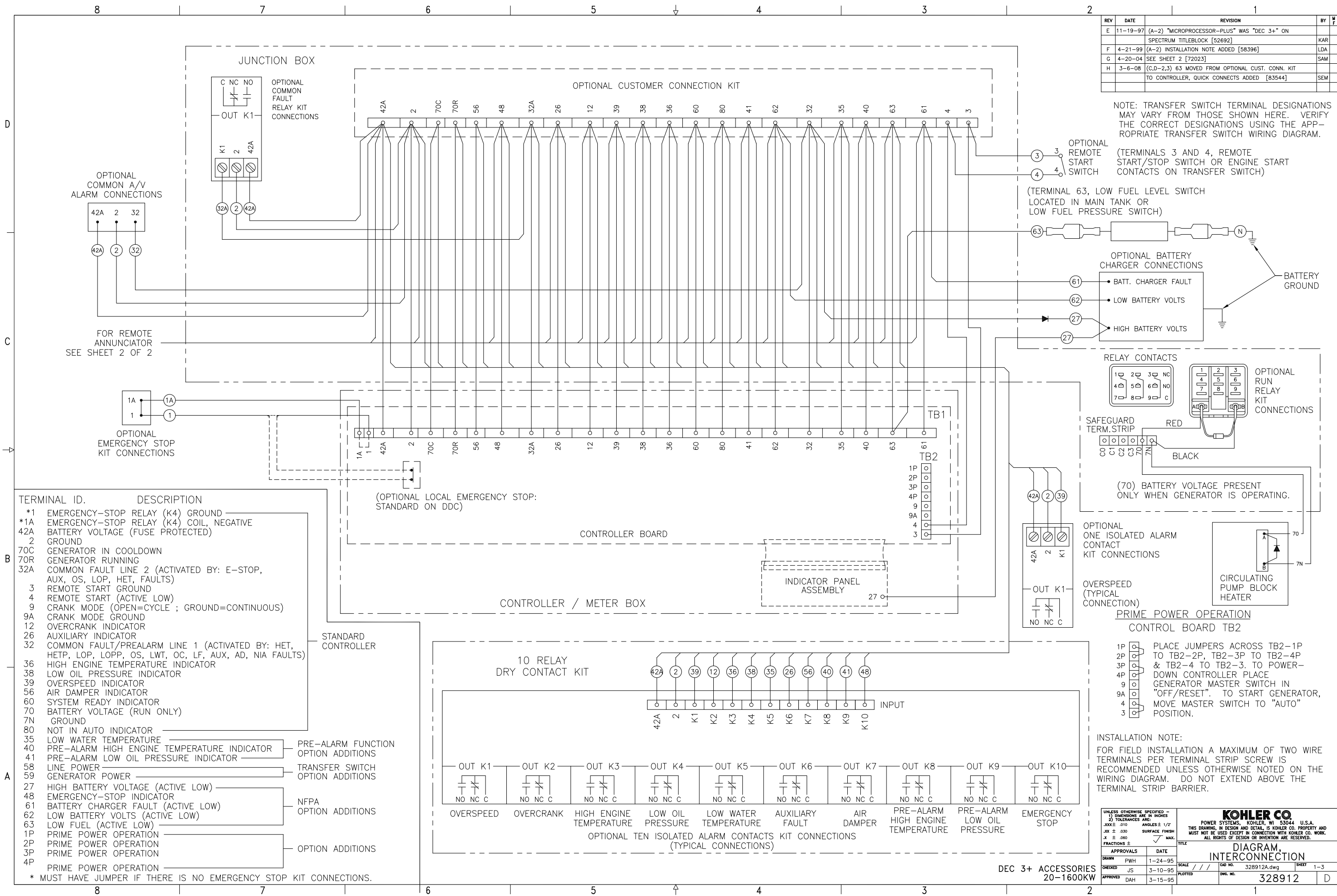
Decision-Maker® 3000 Controller



Decision-Maker® 550 Controller



Decision-Maker® 550 Controller with Keyswitch



OPTIONAL DECISION MONITOR CONNECTIONS

REV	DATE	REVISION	BY
D	9-3-98	(A-2) 20-2000 KW WAS 20-1600 KW; (D-6) CUSTOMER INTERCONNECTION KIT, OR INNER PANEL TERMINAL BLOCK.	
		ADDED [55875]	LDS
F	4-21-99	(A-2) INSTALLATION NOTE ADDED [58396]	LDA
G	4-20-04	(B-4) LEAD CONNECTION NOTE UPDATED [72023]	SAM
H	3-6-08	SEE SHEET 1 [83544]	SEM

REMOTE ANNUNCIATOR
DRY CONTACT BOX
MOUNTED AT GEN

WIRING HARNESS
TO CONTROLLER BOARD,
CUSTOMER INTERCONNECTION KIT,
OR INNER PANEL TERMINAL BLOCK.

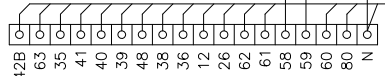
TRANSFER SWITCH

AUXILIARY CONTACTS MOUNTED
ON TRANSFER SWITCH
CONTACTOR ASSEMBLY.

DO NOT APPLY ANY VOLTAGE
TO THESE CONTACTS.

NOTE: TRANSFER SWITCH
TERMINAL DESIGNATIONS MAY VARY FROM
THOSE SHOWN HERE. VERIFY THE CORRECT
DESIGNATIONS USING THE APPROPRIATE
TRANSFER SWITCH WIRING DIAGRAM.

REMOTE ANNUNCIATOR



OPTIONAL DECISION MONITOR CONNECTIONS

TERMINAL ID. DESCRIPTION

*1	EMERGENCY-STOP RELAY (K4) GROUND
*1A	EMERGENCY-STOP RELAY (K4) COIL, NEGATIVE
42A	BATTERY VOLTAGE (FUSE PROTECTED)
2	GROUND
70C	GENERATOR IN COOLDOWN
70R	GENERATOR RUNNING
32A	COMMON FAULT LINE 2 (ACTIVATED BY: E-STOP, AUX, OS, LOP, HET FAULTS)
3	REMOTE START GROUND
4	REMOTE START (ACTIVE LOW)
9	CRANK MODE (OPEN=CYCLE ; GROUND=CONTINUOUS)
9A	CRANK MODE GROUND
12	OVERCRANK INDICATOR
26	AUXILIARY INDICATOR
32	COMMON FAULT/PREALARM LINE 1 (ACTIVATED BY: HET, HETP, LOP, LOPP, OS, LWT, OC, LF, AUX, AD, NIA FAULTS)
36	HIGH ENGINE TEMPERATURE INDICATOR
38	LOW OIL PRESSURE INDICATOR
39	OVERSPEED INDICATOR
56	AIR DAMPER INDICATOR
60	SYSTEM READY INDICATOR
70	BATTERY VOLTAGE (RUN ONLY)
7N	GROUND
80	NOT IN AUTO INDICATOR
35	LOW WATER TEMPERATURE
40	PRE-ALARM HIGH ENGINE TEMPERATURE INDICATOR
41	PRE-ALARM LOW OIL PRESSURE INDICATOR
58	LINE POWER
59	GENERATOR POWER
48	EMERGENCY-STOP INDICATOR
61	BATTERY CHARGER FAULT (ACTIVE LOW)
62	LOW BATTERY VOLTS (ACTIVE LOW)
63	LOW FUEL (ACTIVE LOW)
1P	PRIME POWER OPERATION
2P	PRIME POWER OPERATION
3P	PRIME POWER OPERATION
4P	PRIME POWER OPERATION

STANDARD
CONTROLLER

PRE-ALARM FUNCTION
OPTION ADDITIONS

TRANSFER SWITCH
OPTION ADDITIONS

NFPA
OPTION ADDITIONS

OPTION ADDITIONS

* MUST HAVE JUMPER IF THERE IS NO EMERGENCY STOP KIT CONNECTIONS.

CUSTOMER SUPPLIED WIRES

#N & #42B WIRE REQUIRE
100 FT. - 18-20 GA.
500 FT. - 14 GA.
1000 FT. - 10 GA.

SIGNAL WIRES
18-20 GA. TO 1000 FT.

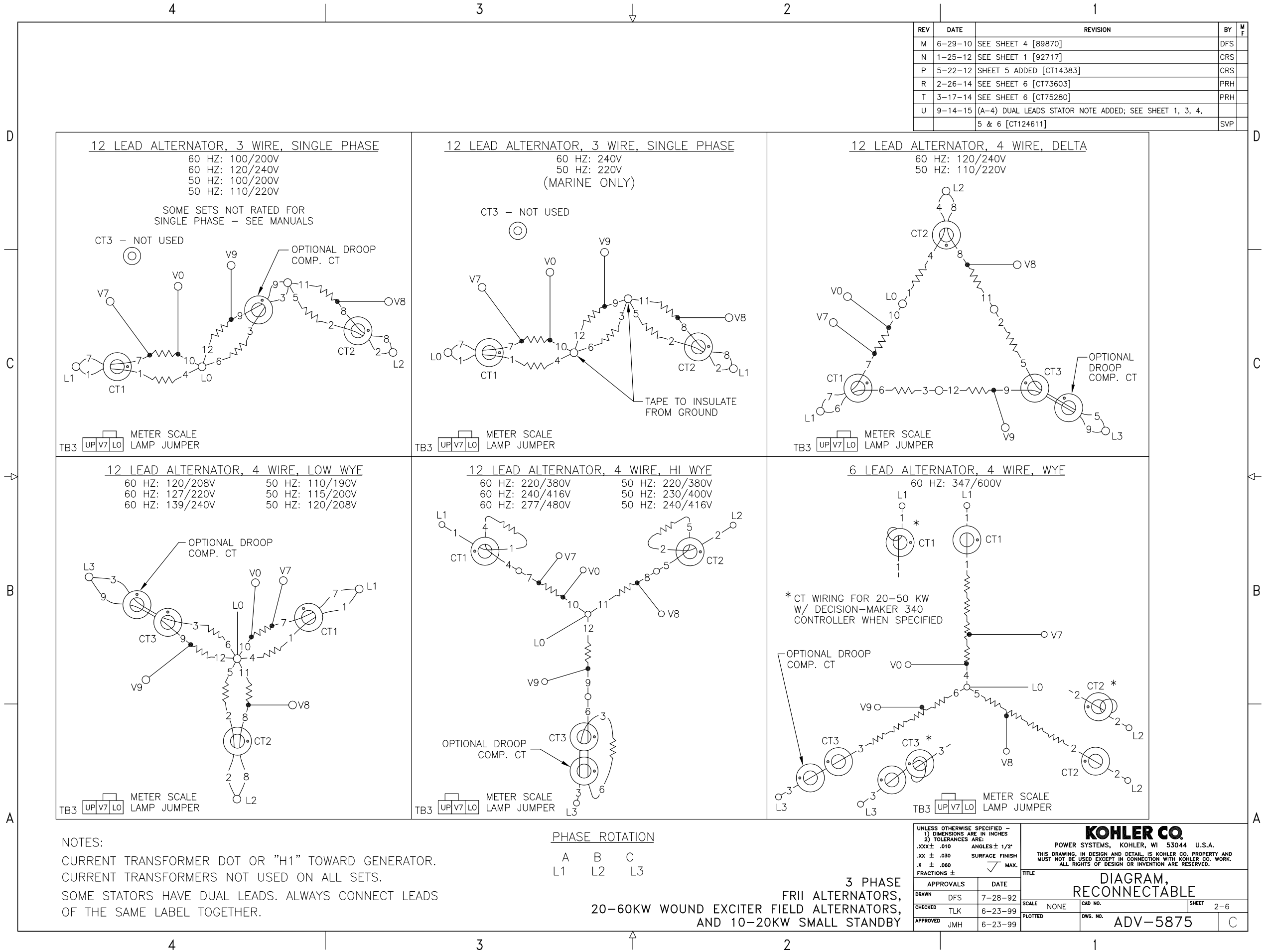
NOTE: IF ADDITIONAL LOAD IS ADDED
RESIZE N & 42B AS REQUIRED

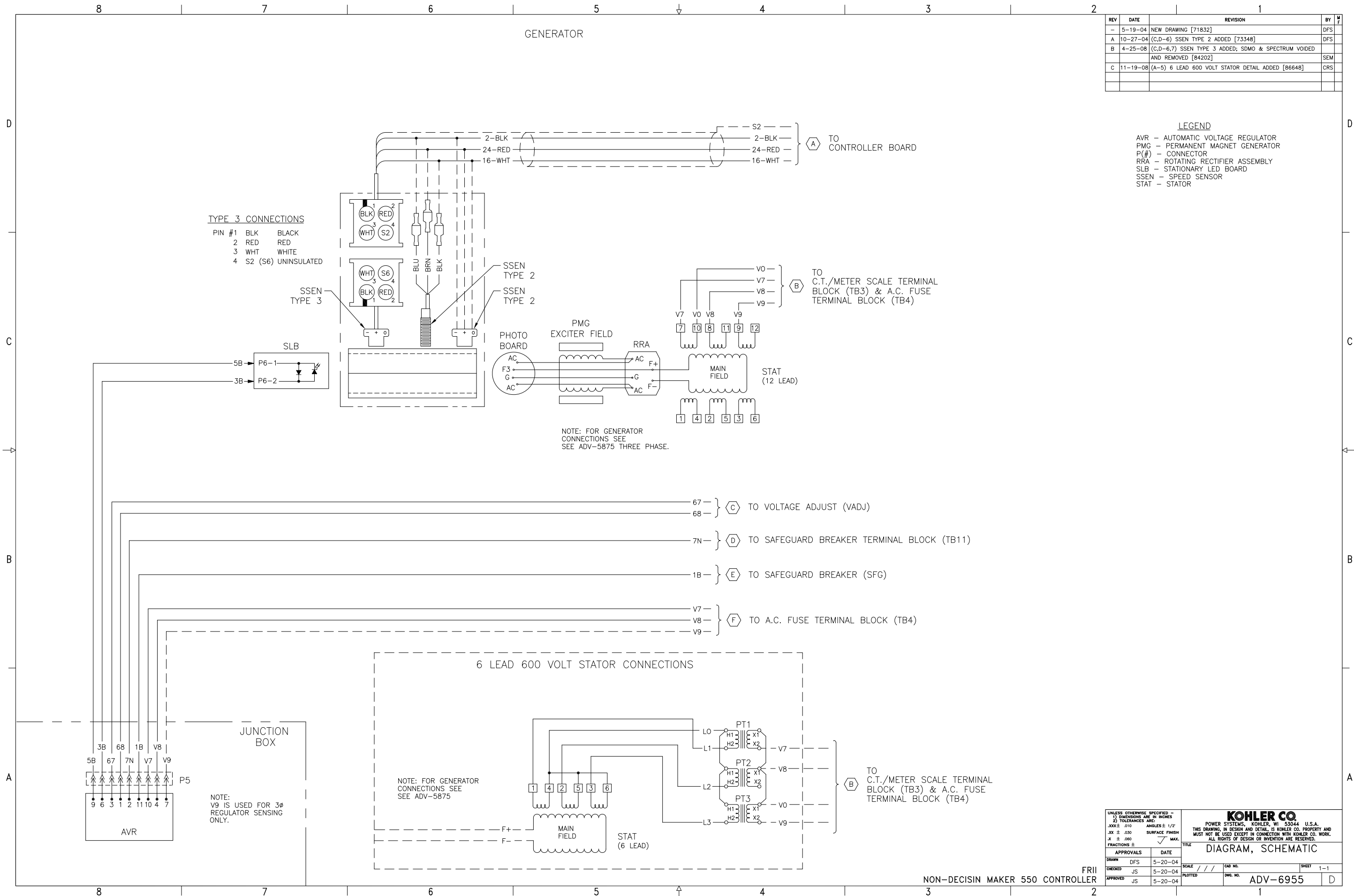
NOTE:
LEAD "N" CONNECTION: CONNECT LEAD "N" TO ENGINE BLOCK GROUND.
LEAD "P" CONNECTION:
PREFERRED- CONNECT LEAD "P" TO TERMINAL WITH "P" WIRES
ON CRANK RELAY.
ALTERNATE - CONNECT LEAD "P" TO BATTERY POSITIVE (+) TERMINAL
ON STARTER SOLENOID.
USE WIRE HARNESS PROVIDED, CUT AND TERMINATE AS REQUIRED.

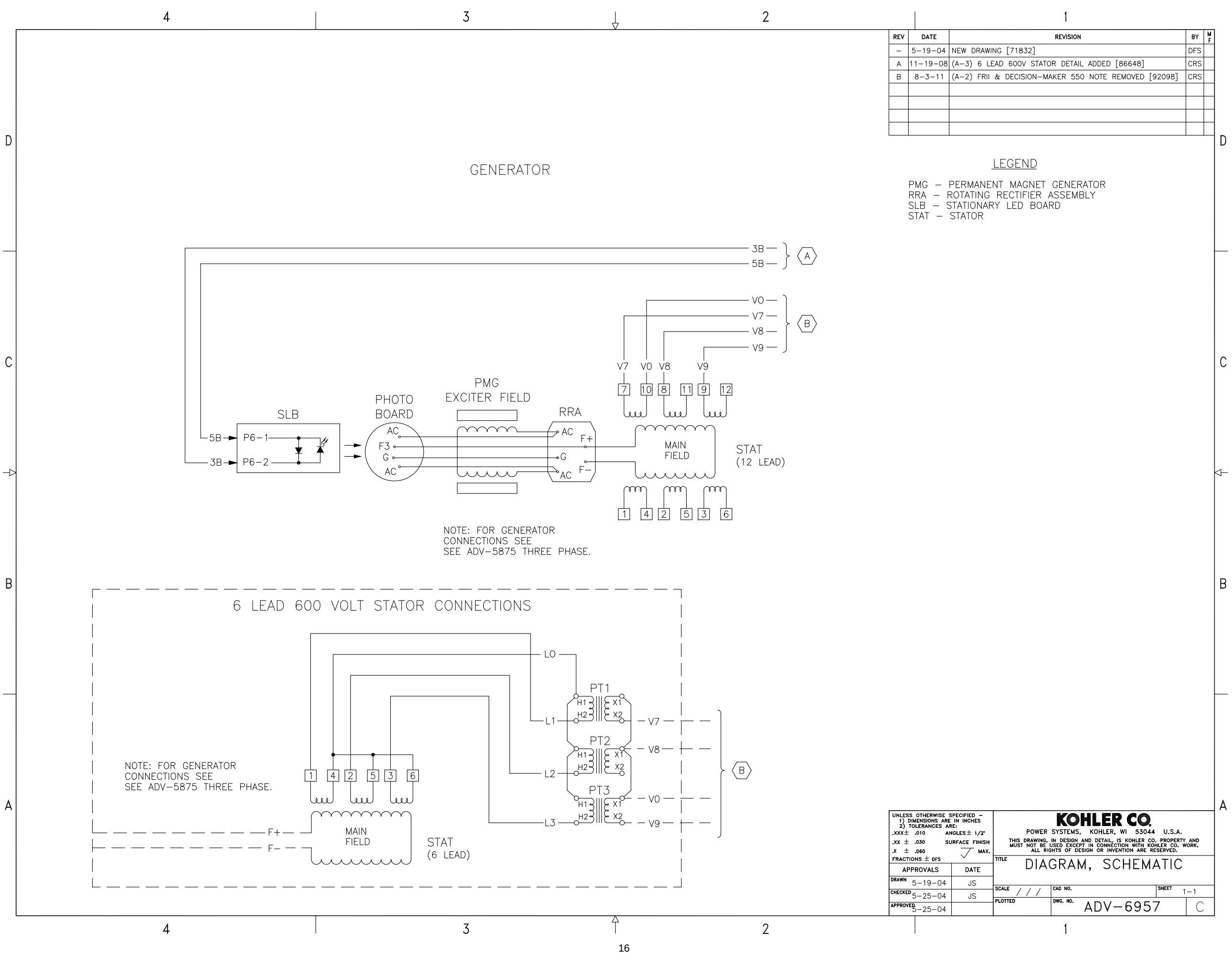
INSTALLATION NOTE:
FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE
TERMINALS PER TERMINAL STRIP SCREW IS
RECOMMENDED UNLESS OTHERWISE NOTED ON THE
WIRING DIAGRAM. DO NOT EXTEND ABOVE THE
TERMINAL STRIP BARRIER.

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 .XX ± .030 .X ± .060 FRACTIONS ±		ANGLES ± 1/2° SURFACE FINISH ✓ MAX.	KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	TITLE DIAGRAM, INTERCONNECTION	
DRAWN	PWH	1-24-95	SCALE	///
CHECKED	JS	3-10-95	CAD NO.	328912B.dwg
APPROVED	DAH	3-15-95	PLOTTED	DWG. NO. 328912
			SHEET	2-3

DEC 3+ ACCESSORIES
20-2000 KW
14 RELAY DRY CONTACT/DECISION MONITOR KIT







UNLESS OTHERWISE SPECIFIED -

1) DIMENSIONS ARE IN INCHES

2) TOLERANCES ARE:

.XXX ± .010

ANGLES ± 1/2°

.XX ± .030

SURFACE FINISH

.X ± .060

FRACTIONS ± DFS

MAX.

APPROVALS

DATE

DRAWN

5-19-04

JS

CHECKED

5-25-04

JS

APPROVED

5-25-04

SCALE

///

CAD NO.

SHEET

1-1

TITLE

DIAGRAM, SCHEMATIC

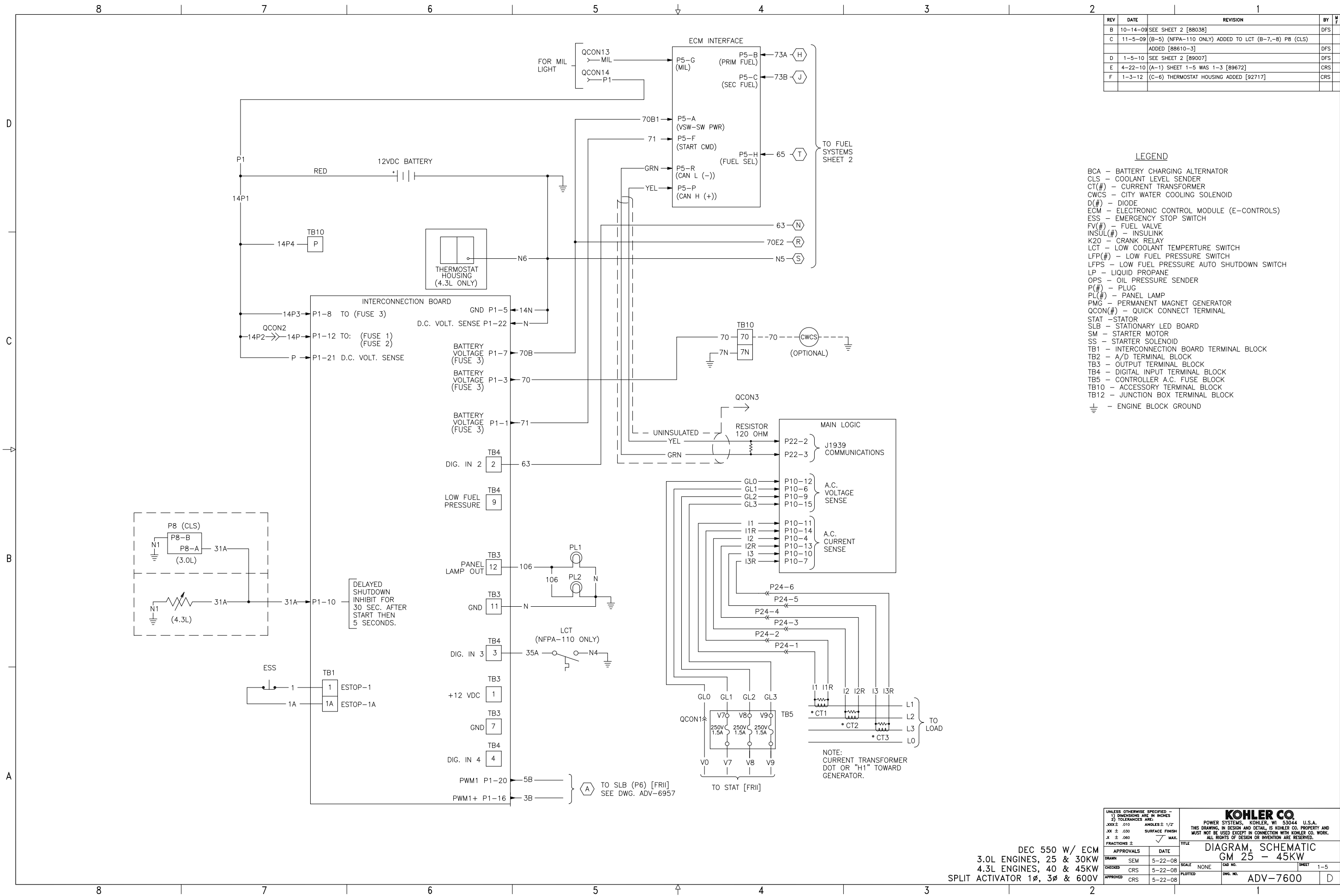
DWG. NO.

ADV-6957

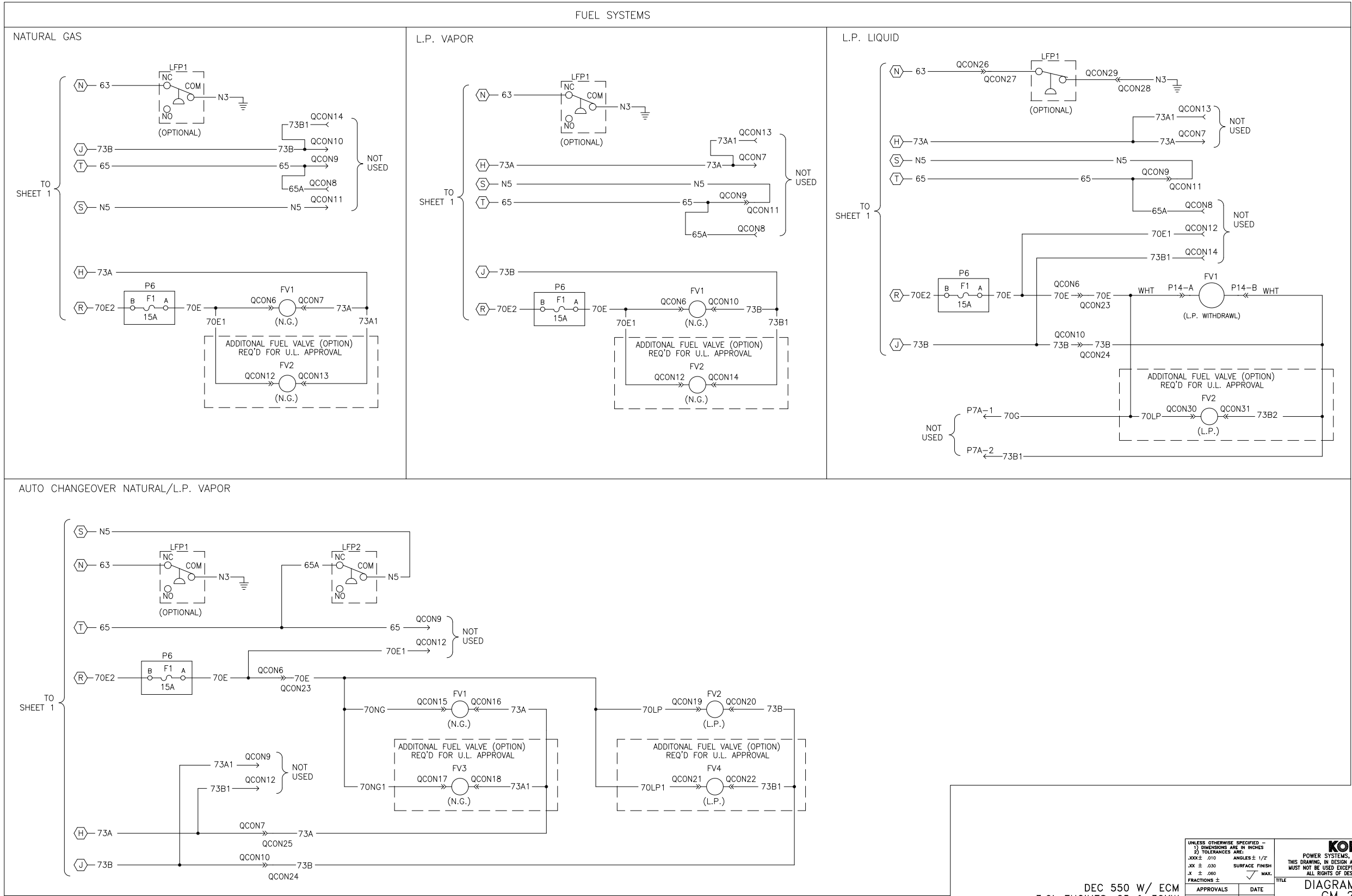
C

POWER SYSTEMS, KOHLER, WI 53044 U.S.A.

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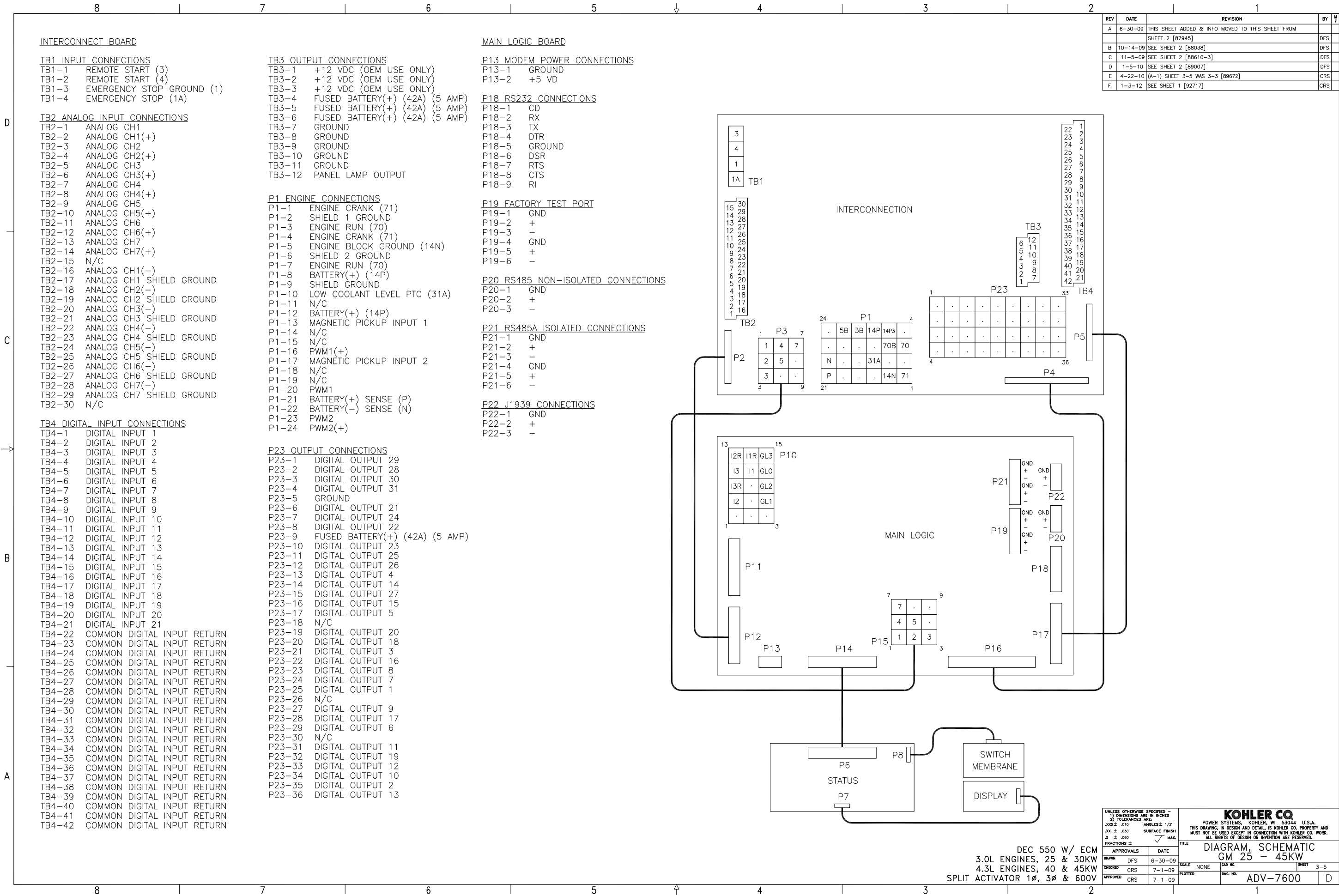


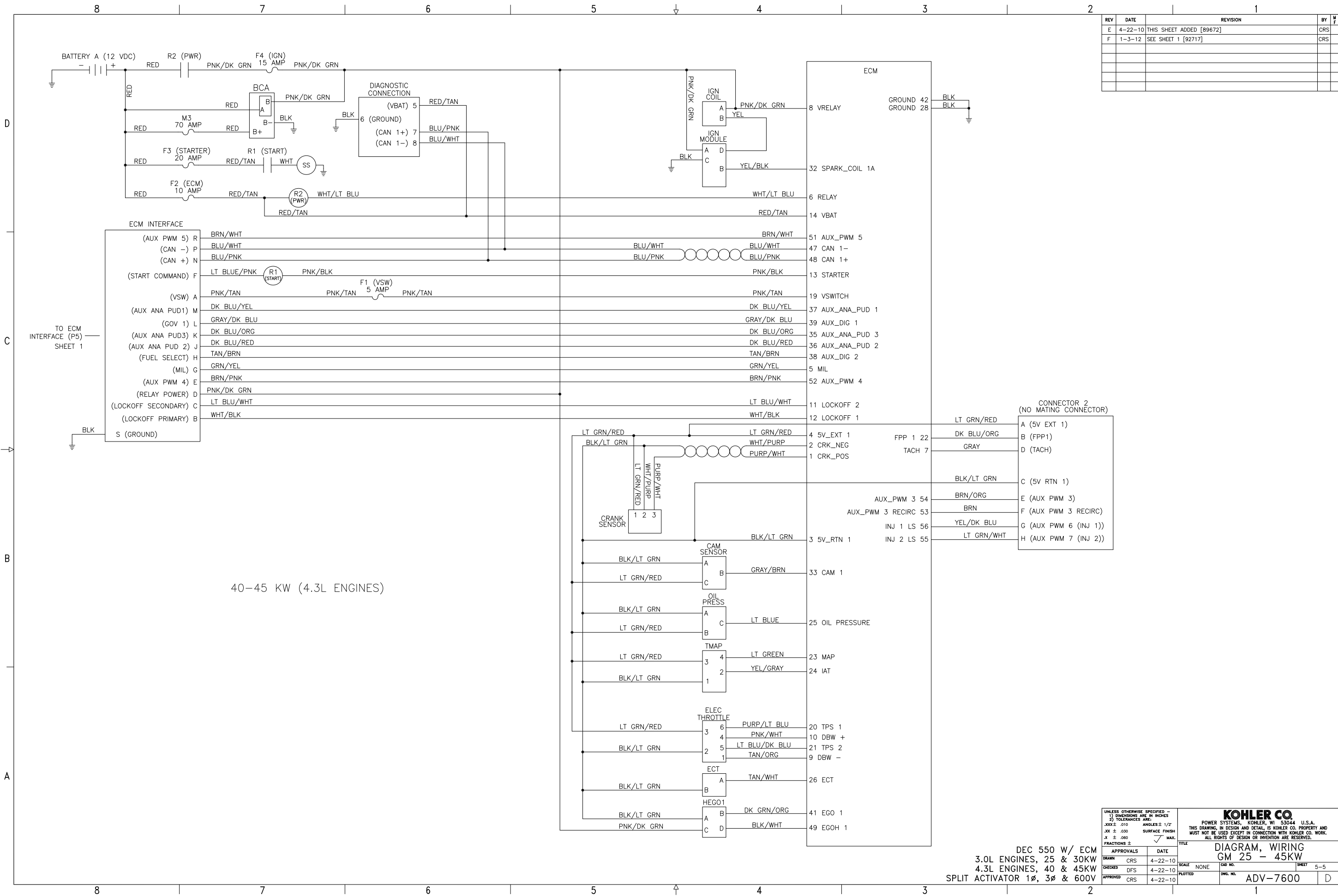
REV	DATE	REVISION	BY	W	F
C	11-5-09	SEE SHEET 1 [88610-3]	DFS		
D	1-5-10	(B,C,D-1 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION			
		HARNES [89007]	DFS		
E	4-22-10	(A-1) SHEET 2-5 WAS 2-3 [89672]	CRS		
F	1-3-12	SEE SHEET 1 [92717]	CRS		



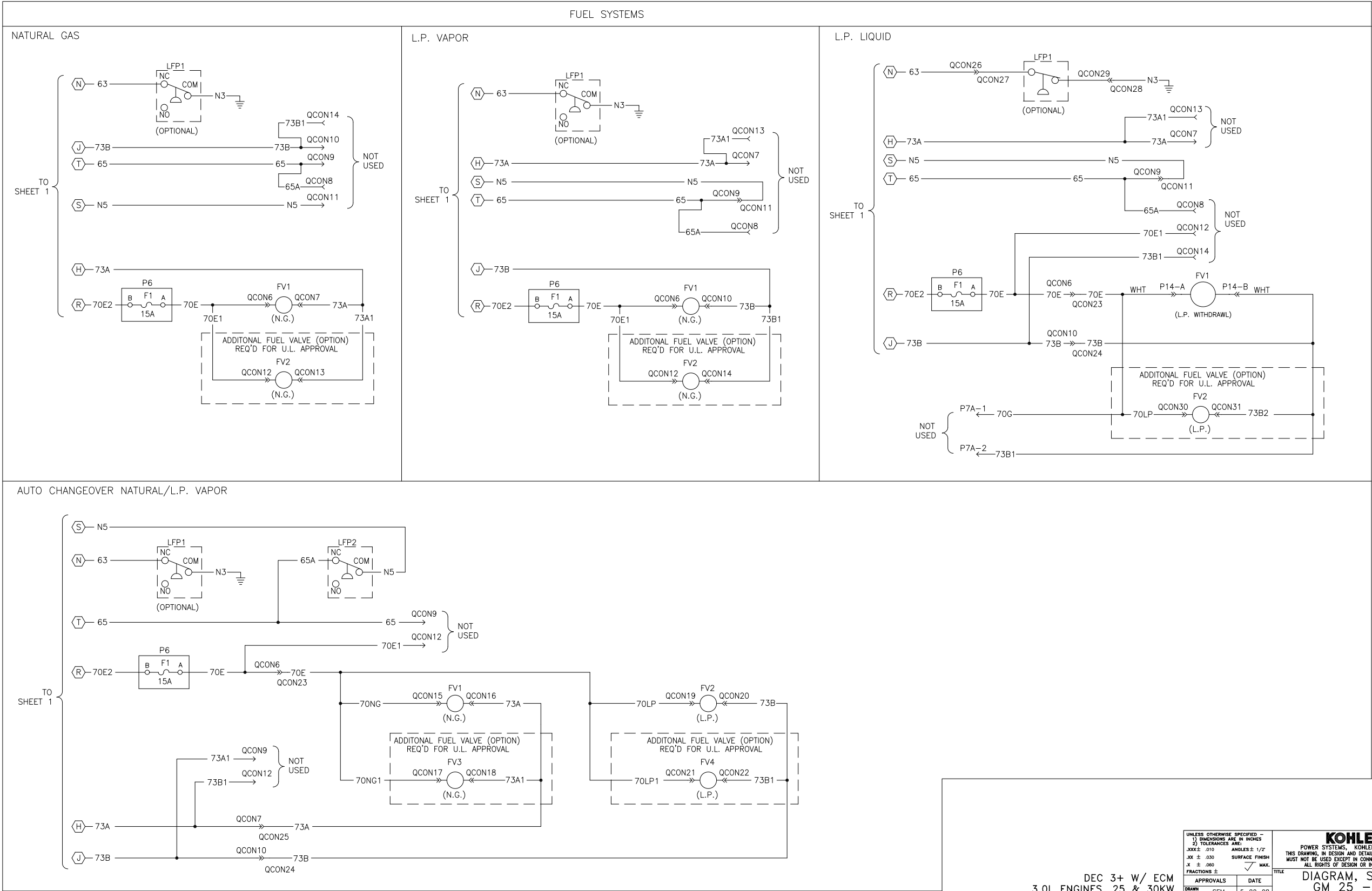
DEC 550 W/ ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		TITLE	
DRAWN	SEM 5-22-08	DIAGRAM, SCHEMATIC	
CHECKED	CRS 5-22-08	GM 25 - 45KW	
APPROVED	CRS 5-22-08	SCALE	NONE
		CAD NO.	
		PLOTTED	DWG. NO.
			ADV-7600
			D
		SHEET	2-5



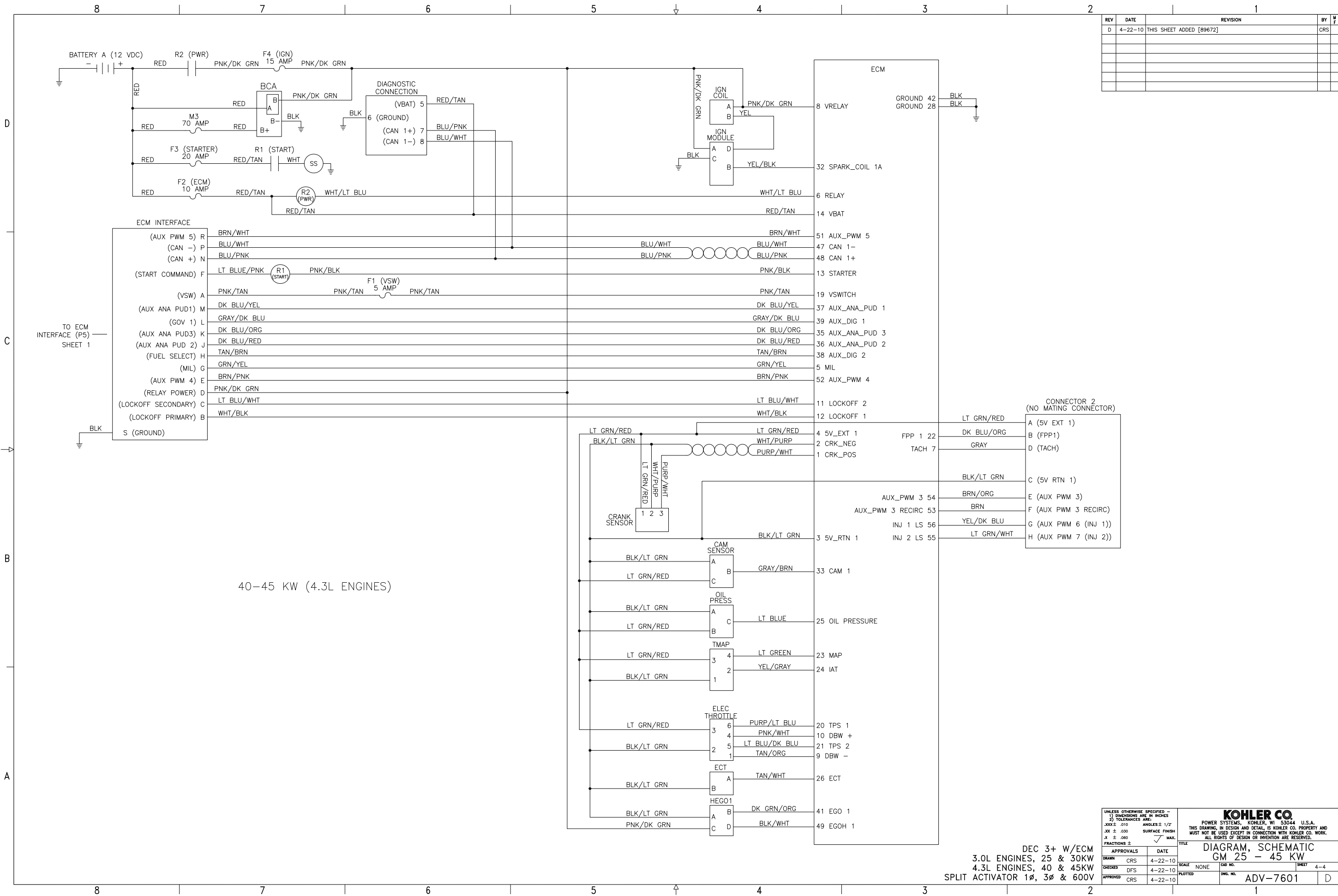


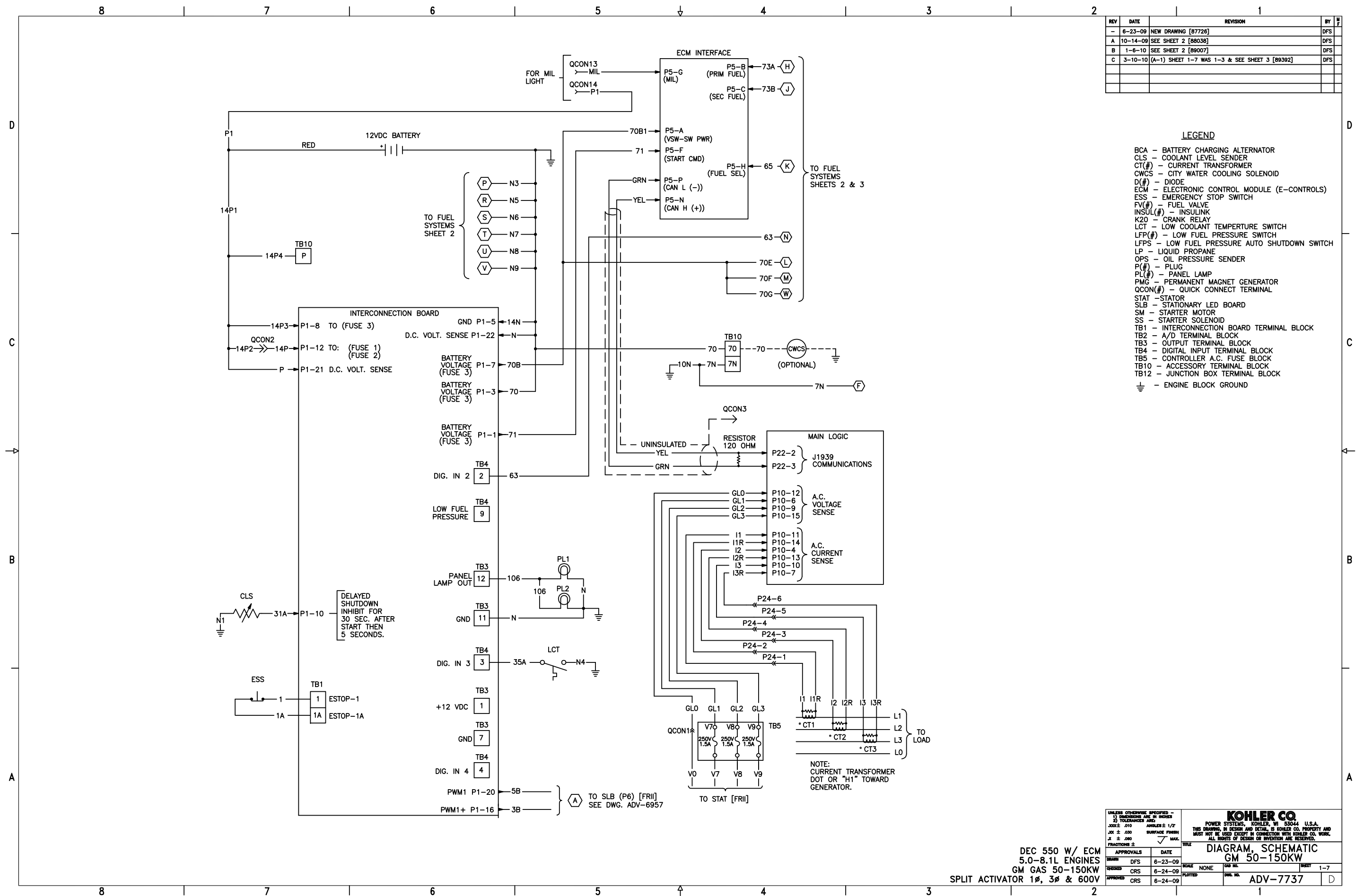
REV	DATE	REVISION	BY	W	F
B	10-14-09	(B-6,-7 & D-3,-5,-7) LFP1 & LFP2 GEOMETRY REVISED (5 PLACES) TO REFLECT NEW SWITCH DESIGN [88038]	DFS		
C	1-5-10	(B,C,D-1 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNES [89007]	DFS		
D	4-22-10	(A-1) SHEET 2-4 WAS 2-2 [89672]	CRS		



DEC 3+ W/ ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 .XX ± .030 .X ± .060 FRACTIONS ±		ANGLES ± 1/2° SURFACE FINISH MAX.		TITLE POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS	DATE	SCALE		SHEET	
DRAWN SEM	5-22-08	NONE		2-4	
CHECKED CRS	5-22-08	PLOTTED		ADV-7601	
APPROVED CRS	5-22-08			D	

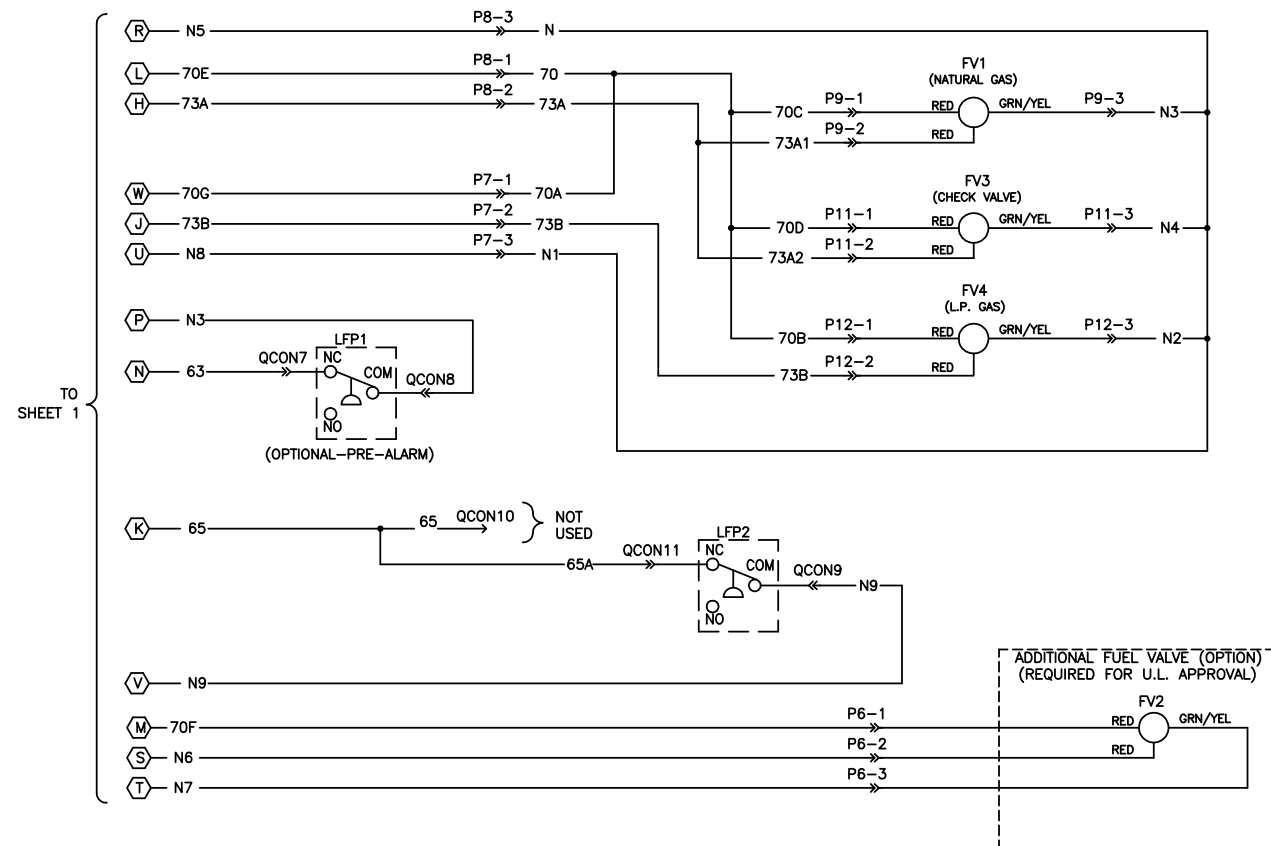




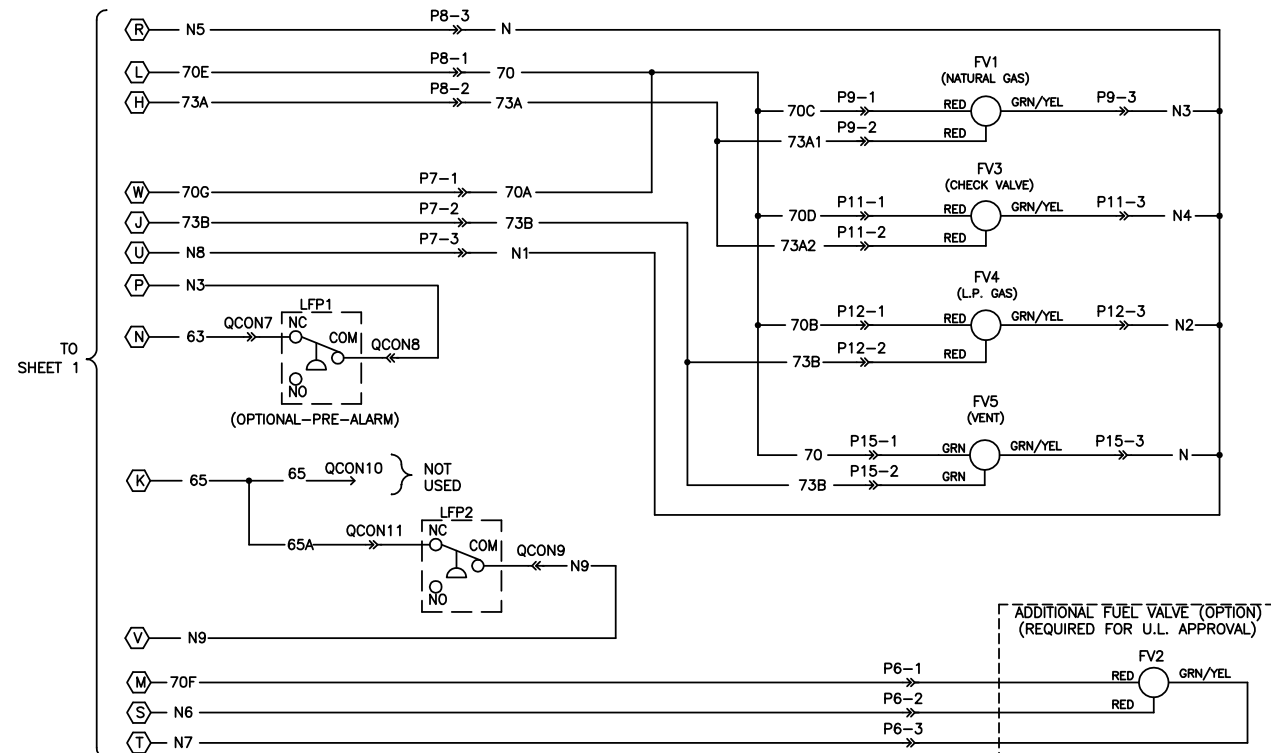
REV	DATE	REVISION	BY	WF
-	6-23-09	NEW DRAWING [87726]	DFS	
A	10-14-09	SEE SHEET 2 [88038]	DFS	
B	1-6-10	SEE SHEET 2 [89007]	DFS	
C	3-10-10	(A-1) SHEET 3-7 WAS 3-3; CONTROLLER LOGIC MOVED TO SHEET 4; SEPERATE WIRING DIAGRAM FOR AUTO CHANGEOVER NATURAL/L.P. GAS FOR 125KW ONLY. ADDED: (C-3) QCON14, QCON15, QCON16 & QCON17 REMOVED FROM LFP1 CONNECTIONS [89392]	DFS	

FUEL SYSTEMS

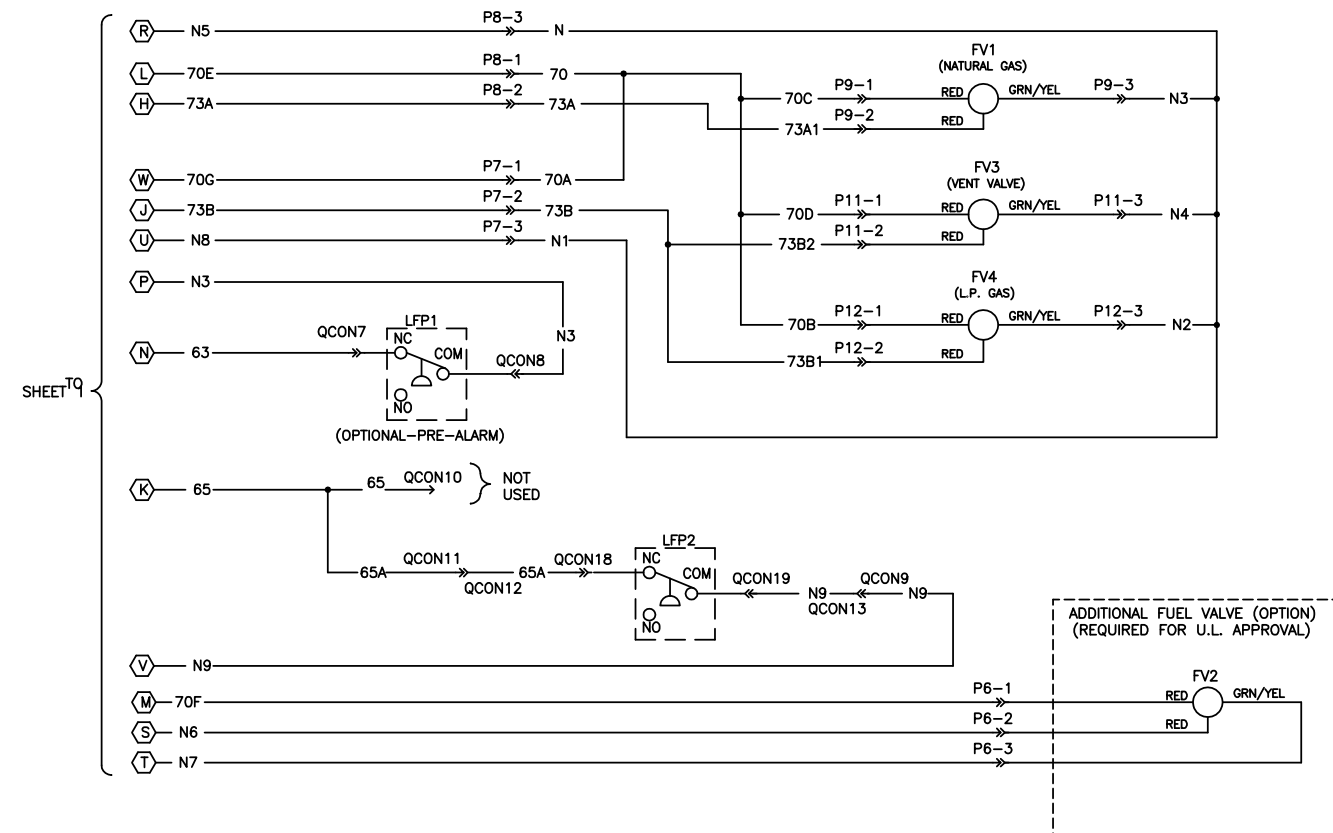
AUTO CHANGEOVER NATURAL/L.P. GAS 50 -100KW & 150KW (REVERSE CHECK VALVE CONFIGURATION)



AUTO CHANGEOVER NATURAL/L.P. GAS 125KW ONLY (REVERSE CHECK VALVE CONFIGURATION)

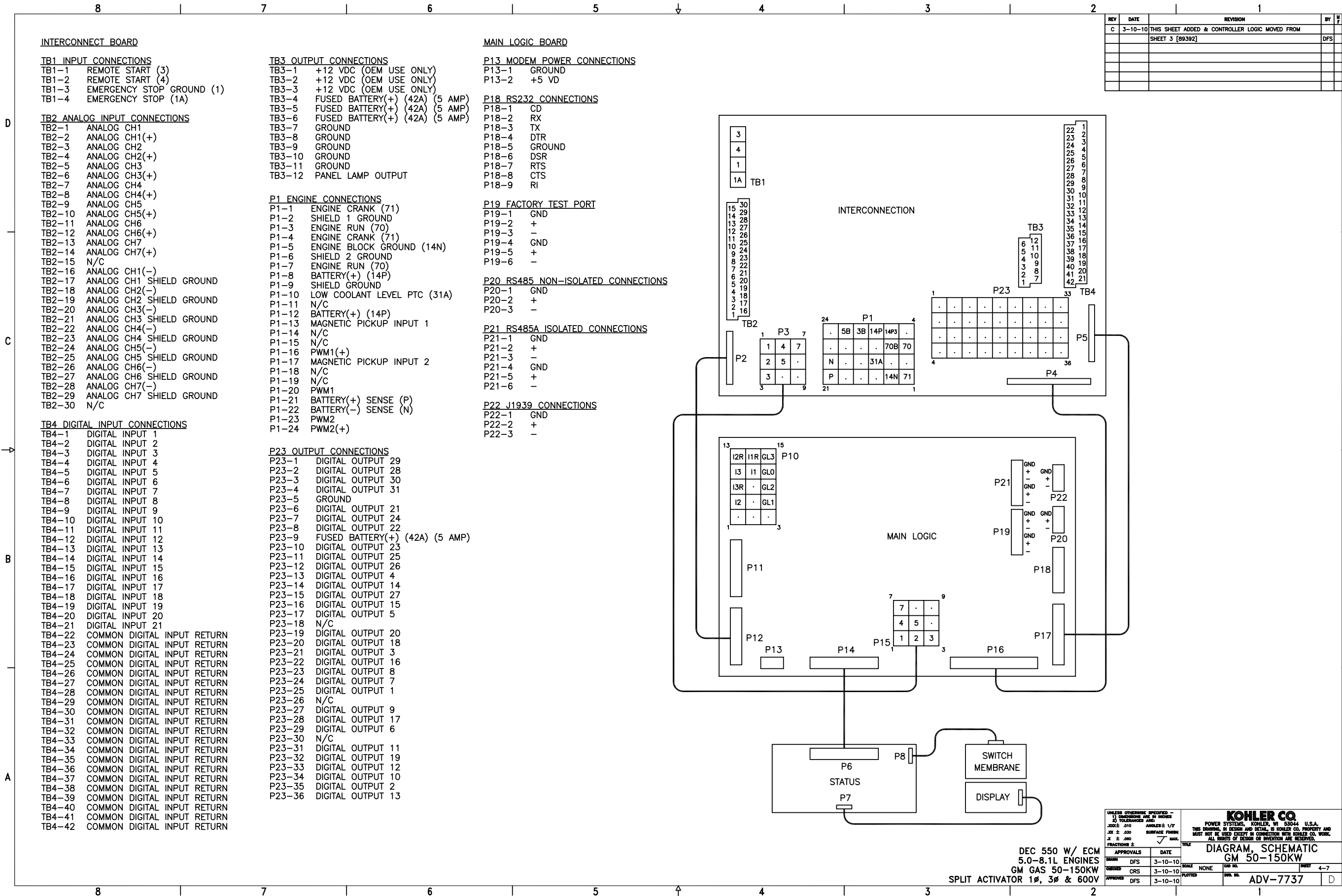


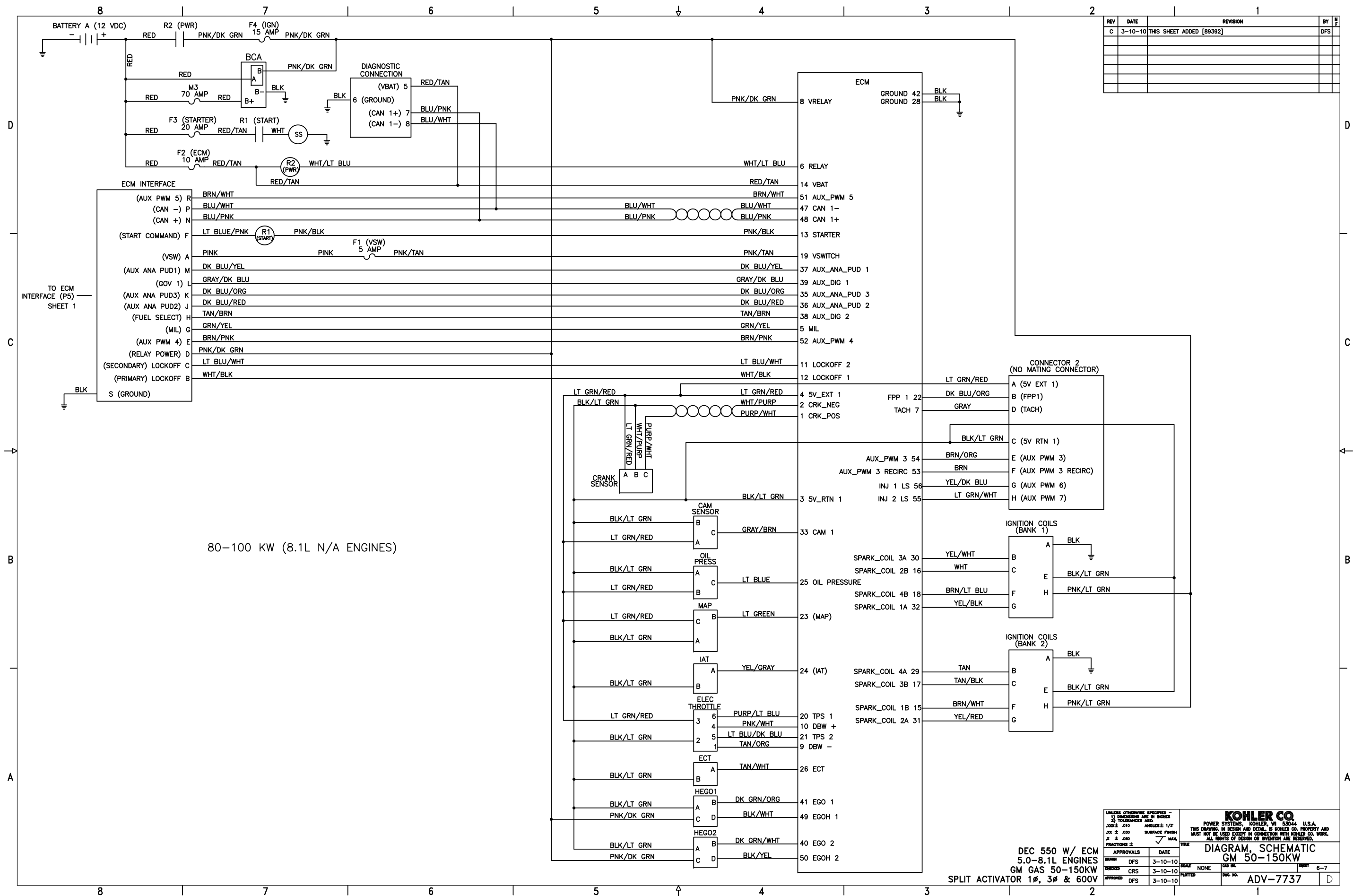
AUTO CHANGEOVER NATURAL/L.P. GAS (VENT VALVE CONFIGURATION - 5.7L TURBO ONLY)

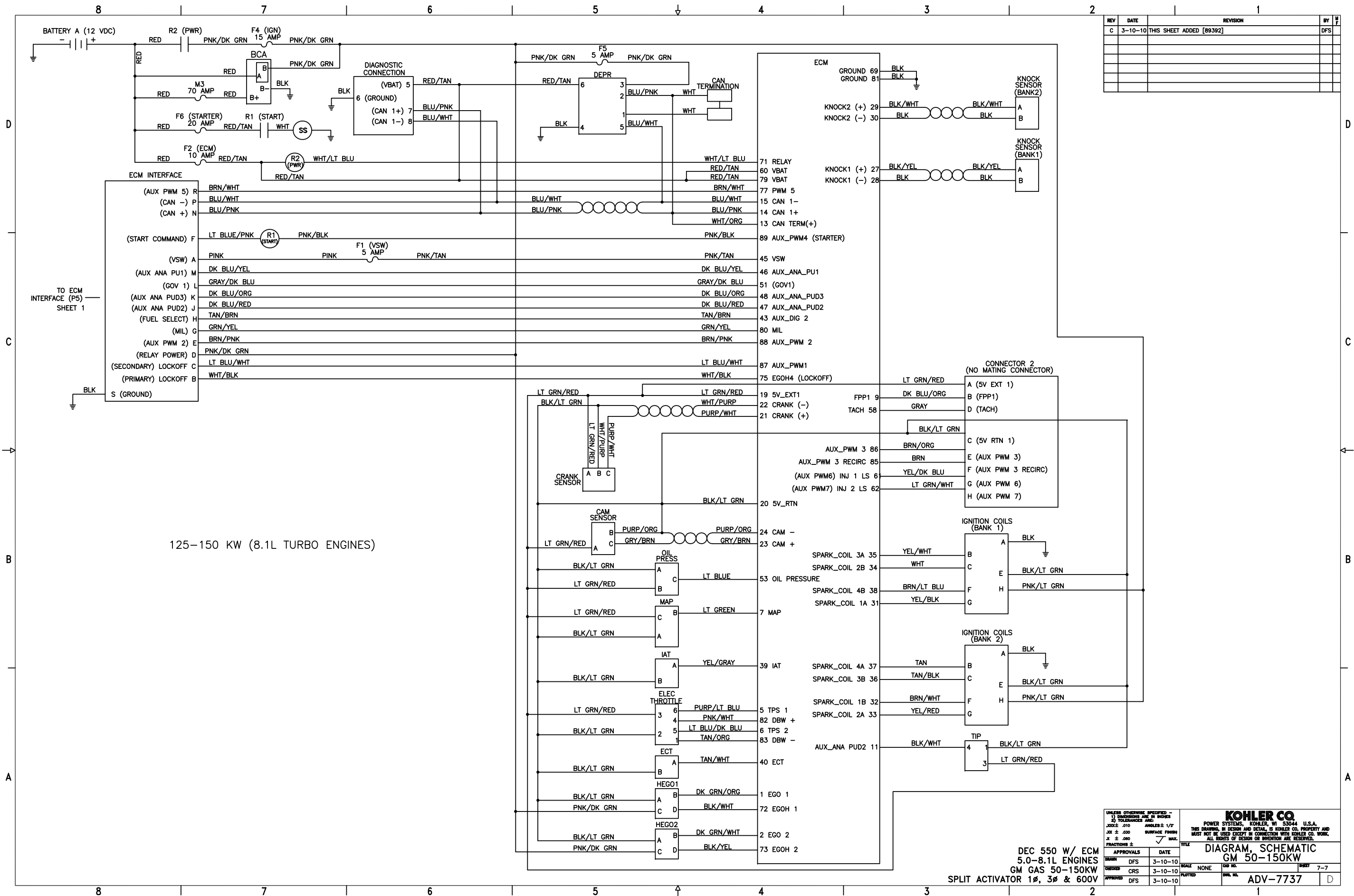


DEC 550 W/ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø 600V

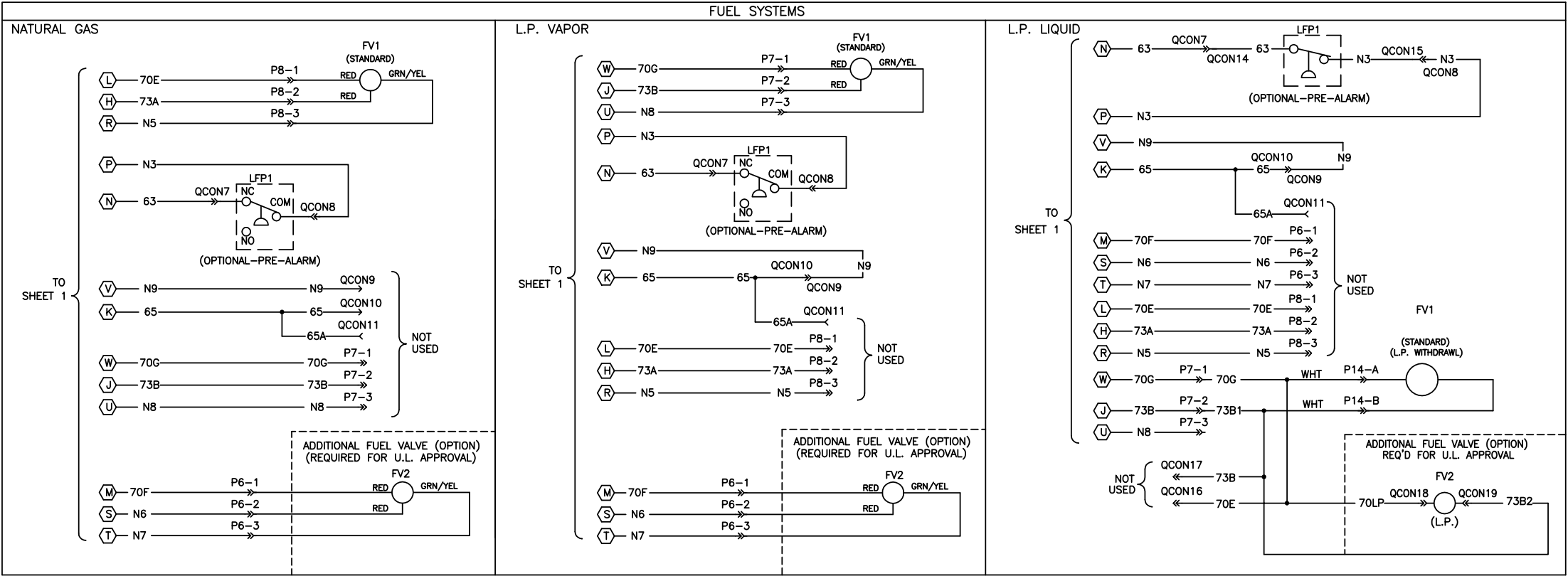
UNLESS OTHERWISE SPECIFIED - (1) DIMENSIONS ARE IN INCHES (2) DIMENSIONS ARE IN MILLIMETERS		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
JOCID: .010 AUL: .030 SIZE: .030 FINISH: .030 MAX.	ANGLE: 1/2"	TITLE DIAGRAM, SCHEMATIC GM 50-150KW	
APPROVALS: 2 DATES	SCALE NONE SHEET 3-7		
CHECKED: CRS 6-24-09	PLOTTED: (SHEET NO.) ADV-7737		
APPROVED: CRS 6-24-09	(SHEET NO.) ADV-7737		





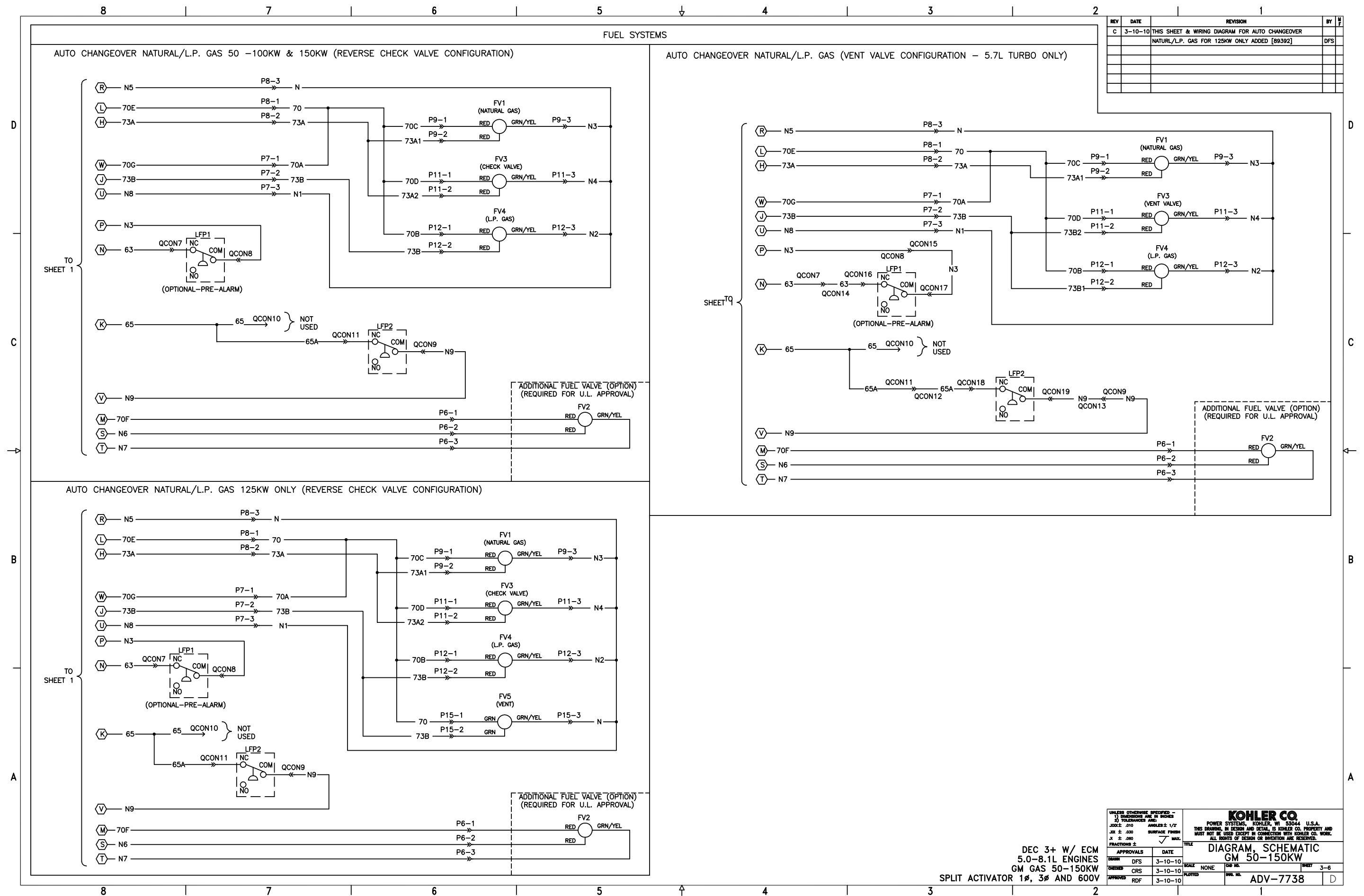


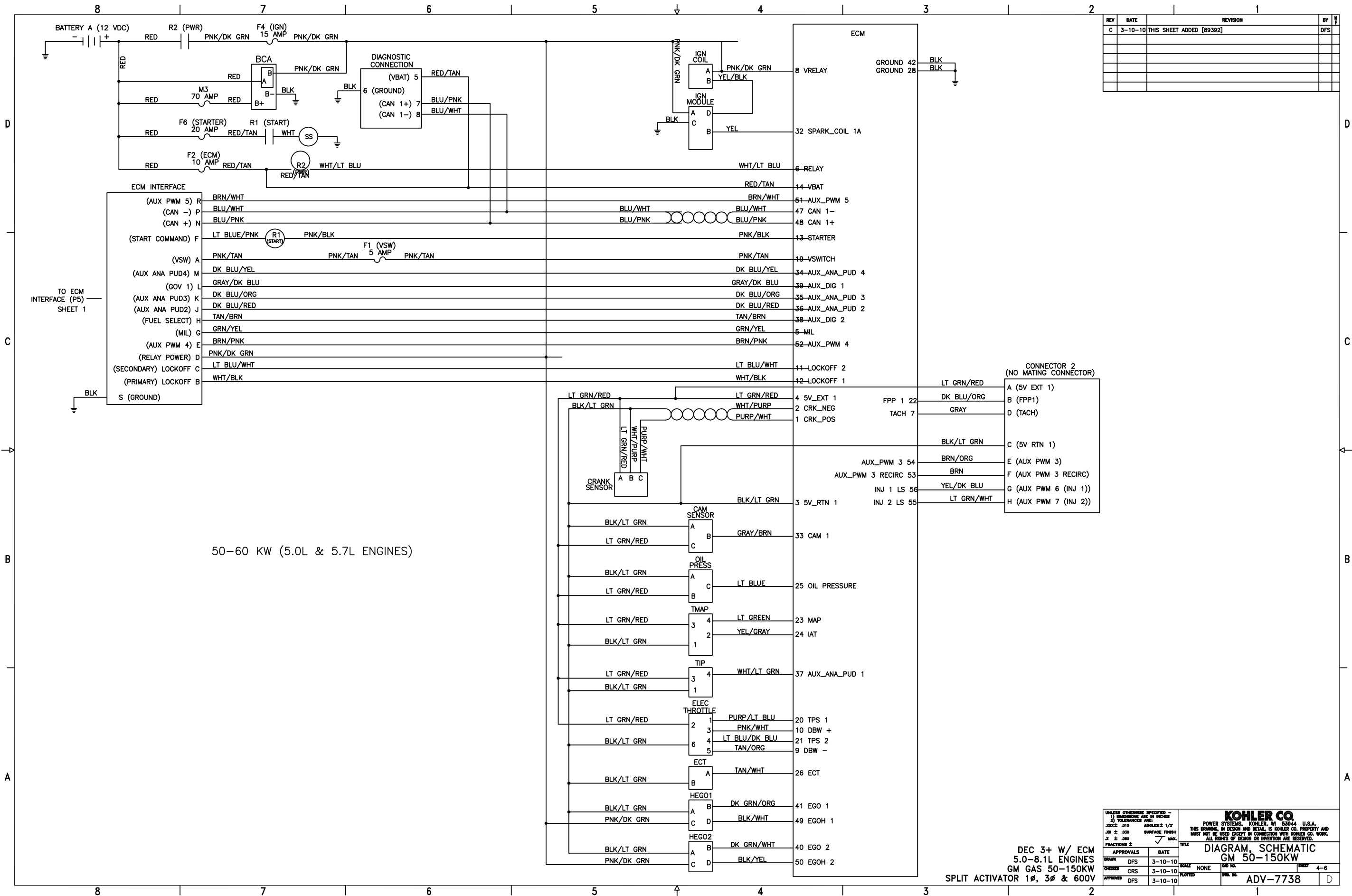
REV	DATE	REVISION	BY	W
B	1-6-10	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS; (A & B-1 THRU -4) WIRING DIAGRAM FOR 5.7L TURBO DUAL FUEL ADDED & SEE SHEET 1 [89007]		
C	3-10-10	(A-1) SHEET 2-6 WAS 2-2 & DUAL FUEL SYSTEMS MOVED SHEET 3 [89392]	DFS	
			DFS	

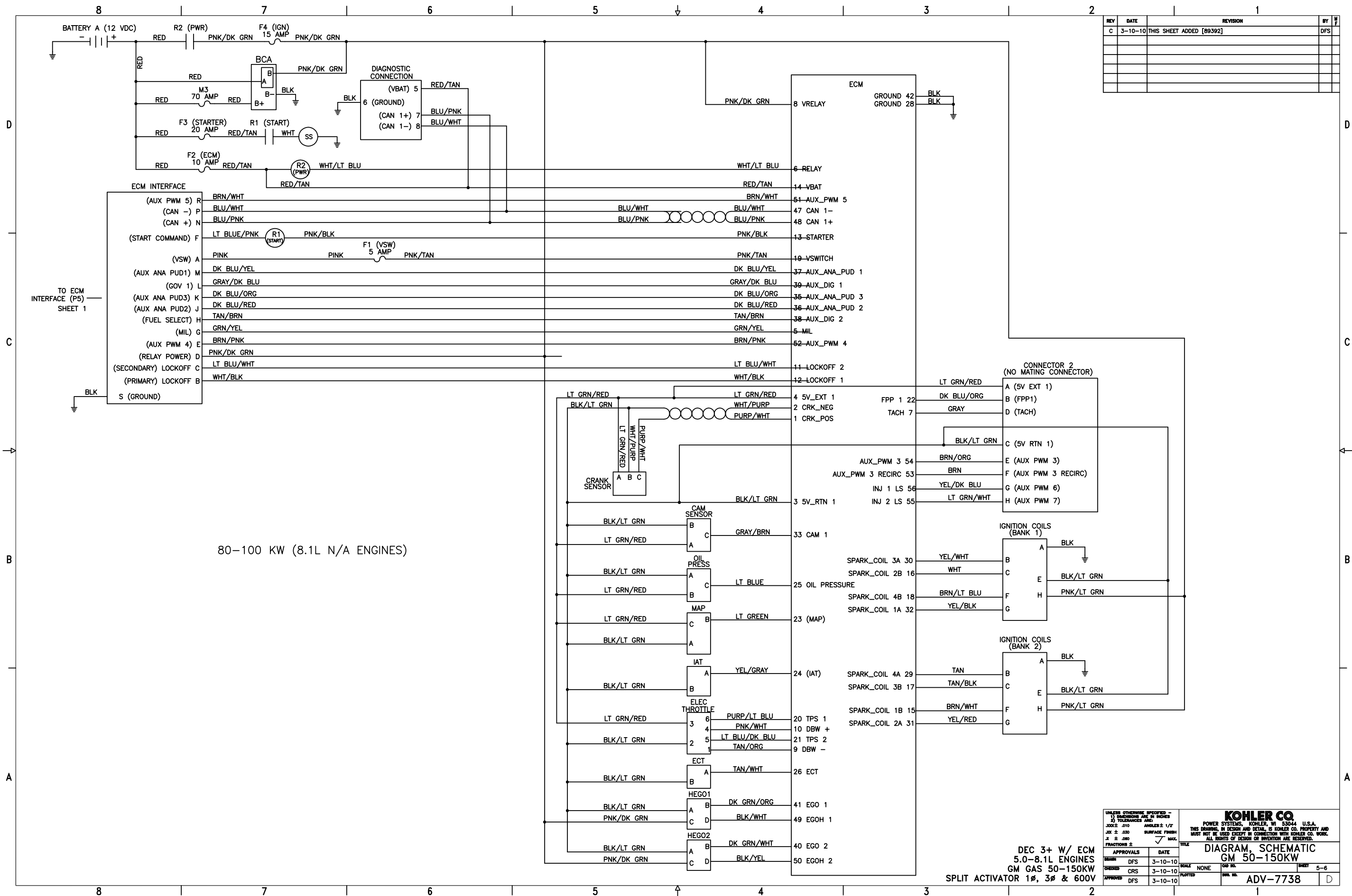


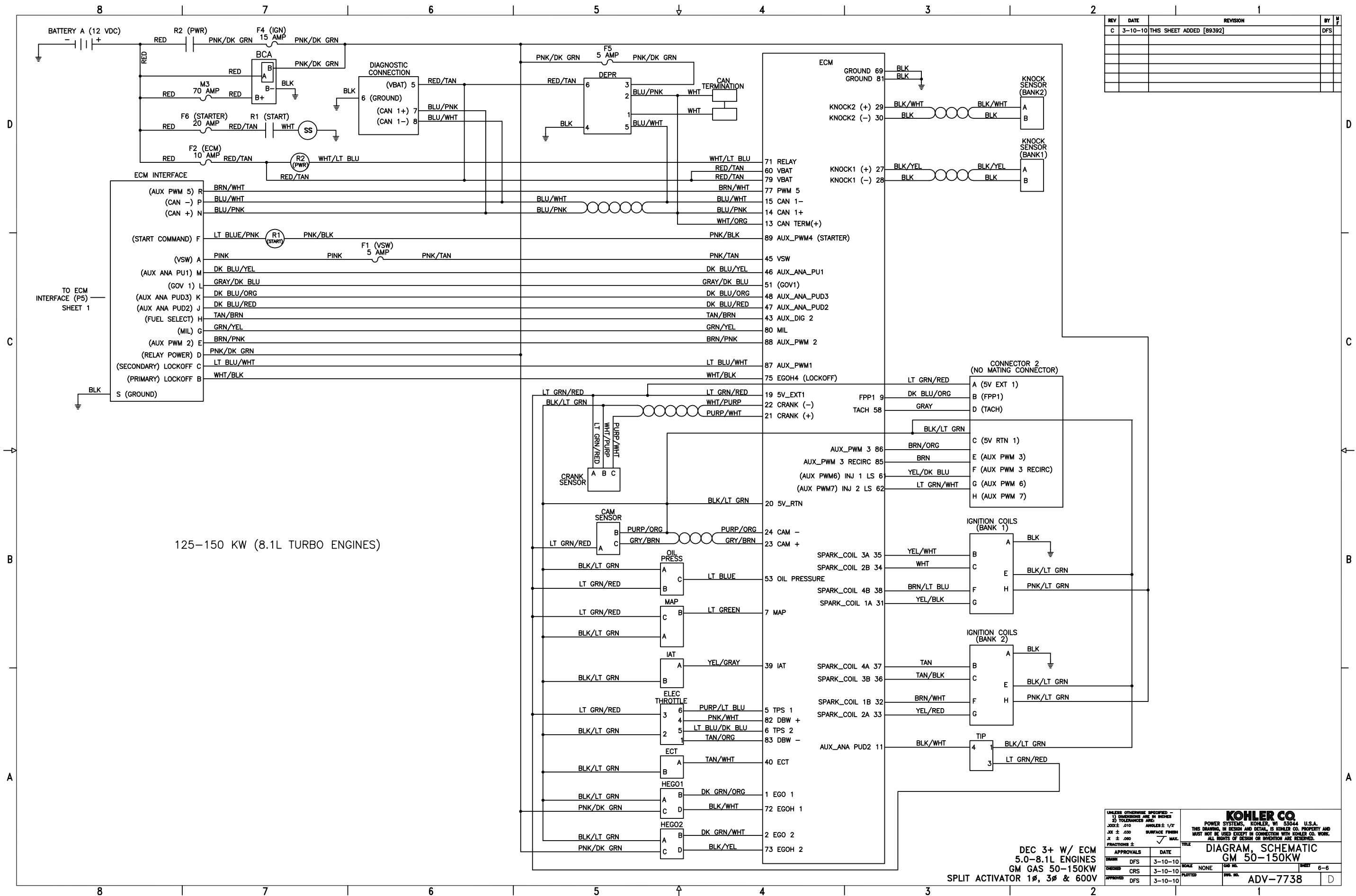
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: JOES ± .010 ANGLES ± 1/2° X ± .080 SURFACE FINISH FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS	DATE	TITLE	SHEET
DFS	6-23-09	DIAGRAM, SCHEMATIC	2-6
CRS	6-24-09	GM 50-150 KW	
CRS	6-24-09	ADV-7738	

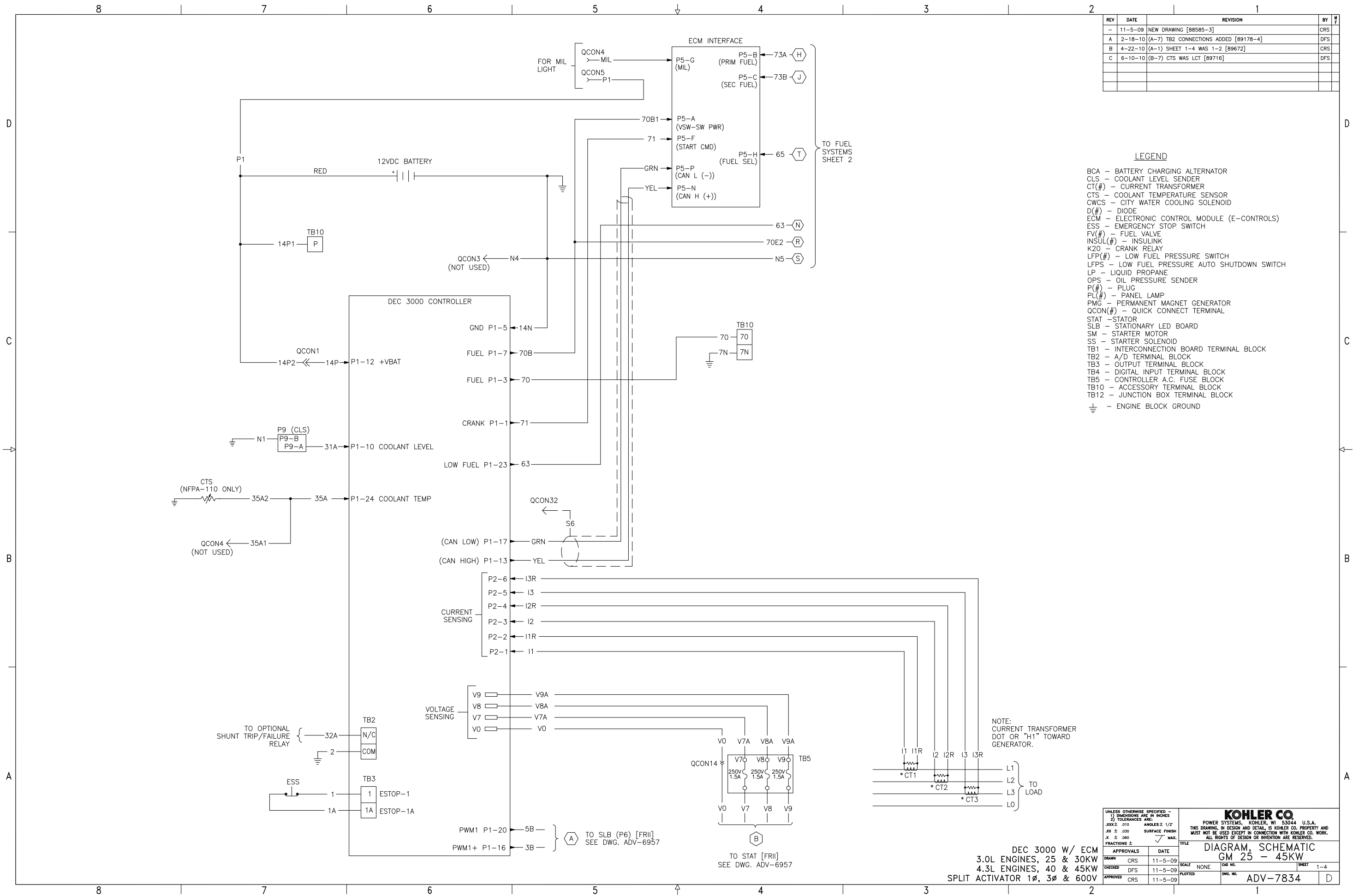
DEC 3+ W/ ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

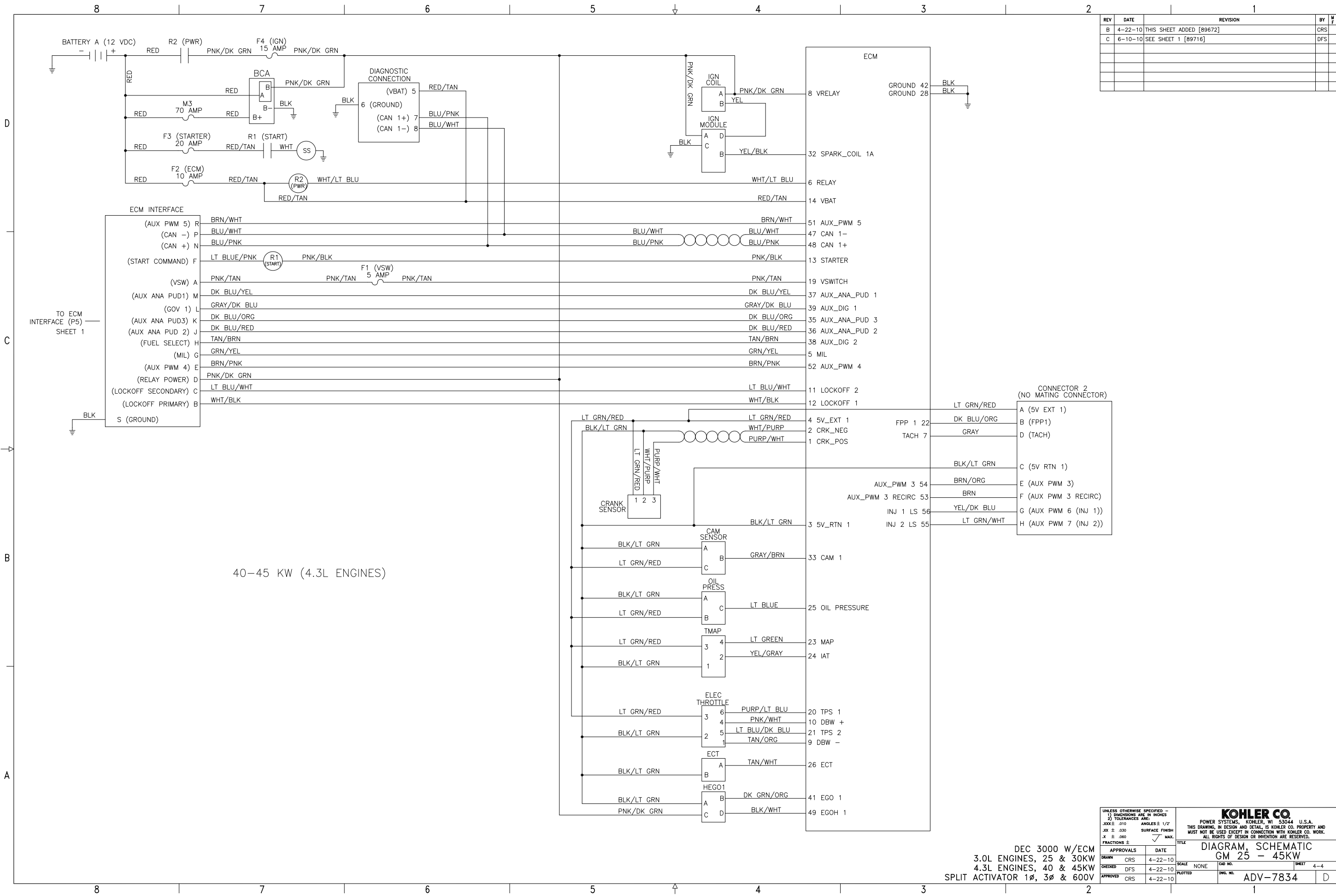








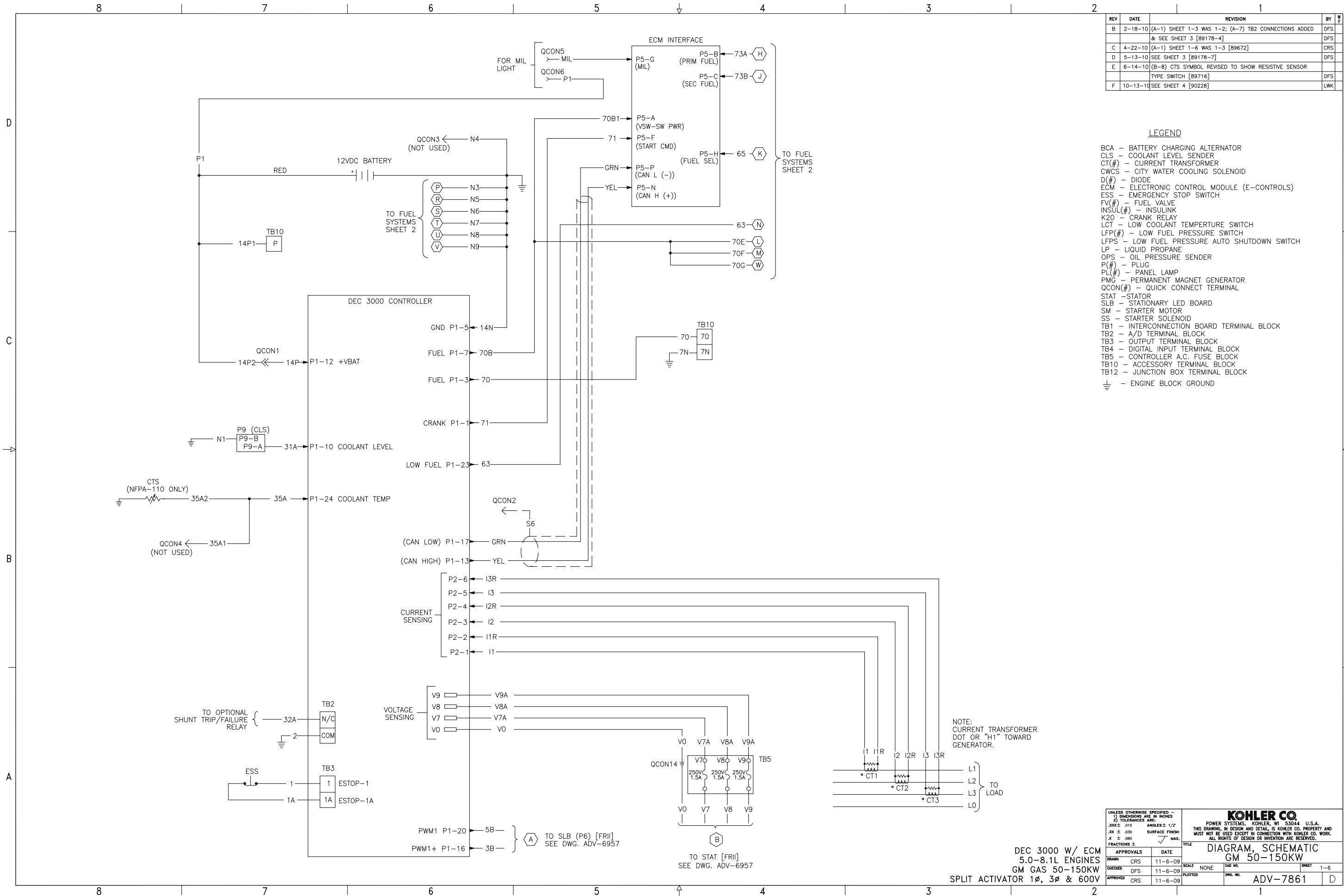




REV	DATE	REVISION	BY	W	F
B	4-22-10	THIS SHEET ADDED [89672]	CRS		
C	6-10-10	SEE SHEET 1 [89716]	DFS		

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS	DATE	TITLE	
DRAWN CRS	4-22-10	DIAGRAM, SCHEMATIC	
CHECKED DFS	4-22-10	GM 25 - 45KW	
APPROVED CRS	4-22-10	SCALE NONE	SHEET 4-4
		PLOTTED	DWG. NO. ADV-7834

DEC 3000 W/ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V



REV	DATE	REVISION	BY	W	F
B	2-18-10	(A-1) SHEET 1-3 WAS 1-2; (A-7) TB2 CONNECTIONS ADDED & SEE SHEET 3 [89178-4]	DFS		
C	4-22-10	(A-1) SHEET 1-6 WAS 1-3 [89672]	CRS		
D	5-13-10	SEE SHEET 3 [89178-7]	DFS		
E	6-14-10	(B-B) CTS SYMBOL REVISED TO SHOW RESISTIVE SENSOR			
		TYPE SWITCH [89716]	DFS		
F	10-13-10	SEE SHEET 4 [90228]	LWK		

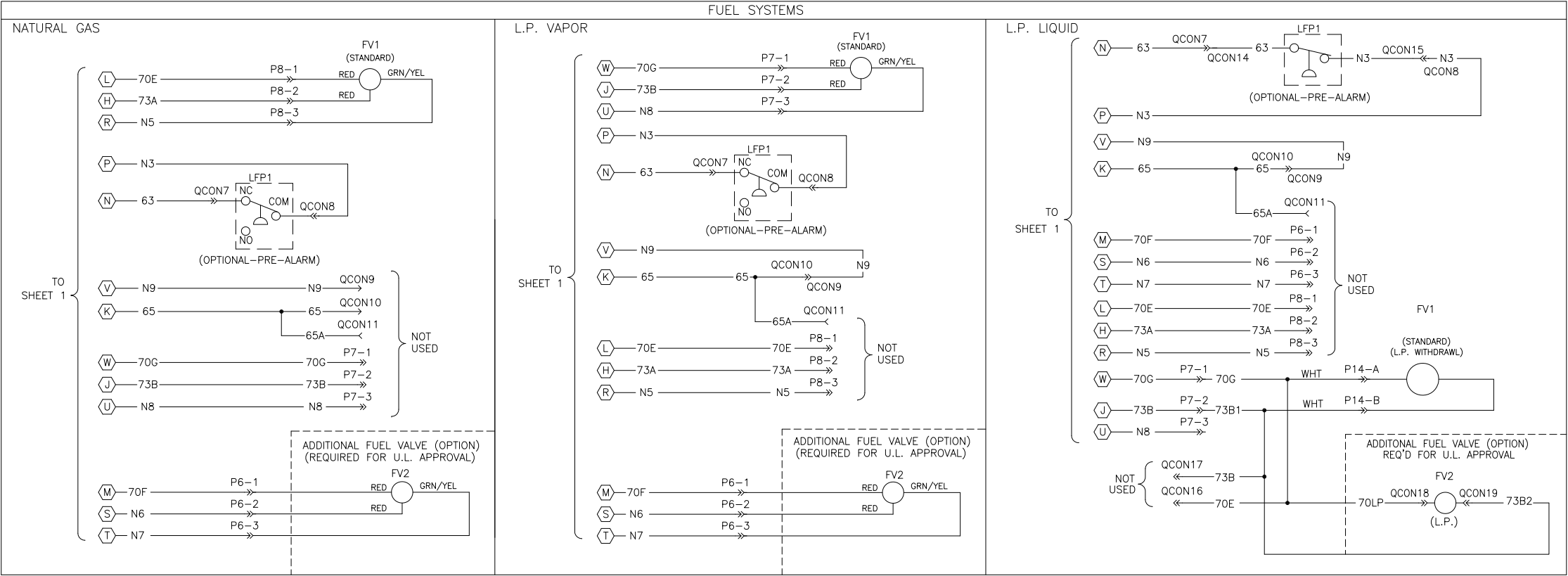
LEGEND

BCA - BATTERY CHARGING ALTERNATOR
CLS - COOLANT LEVEL SENDER
CT(##) - CURRENT TRANSFORMER
CWCS - CITY WATER COOLING SOLENOID
D(##) - DIODE
ECM - ELECTRONIC CONTROL MODULE (E-CONTROLS)
ESS - EMERGENCY STOP SWITCH
FV(##) - FUEL VALVE
INSUL(##) - INSULINK
K20 - CRANK RELAY
LCT - LOW COOLANT TEMPURTURE SWITCH
LFP(##) - LOW FUEL PRESSURE SWITCH
LFPS - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
LP - LIQUID PROPANE
OPS - OIL PRESSURE SENDER
P(##) - PLUG
PL(##) - PANEL LAMP
PMG - PERMANENT MAGNET GENERATOR
QCON(##) - QUICK CONNECT TERMINAL
STAT - STATOR
SLB - STATIONARY LED BOARD
SM - STARTER MOTOR
SS - STARTER SOLENOID
TB1 - INTERCONNECTION BOARD TERMINAL BLOCK
TB2 - A/D TERMINAL BLOCK
TB3 - OUTPUT TERMINAL BLOCK
TB4 - DIGITAL INPUT TERMINAL BLOCK
TB5 - CONTROLLER A.C. FUSE BLOCK
TB10 - ACCESSORY TERMINAL BLOCK
TB12 - JUNCTION BOX TERMINAL BLOCK
⏏ - ENGINE BLOCK GROUND

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN	CRS	11-6-09	SCALE NONE
CHECKED	DFS	11-6-09	PLOTTED
APPROVED	CRS	11-6-09	DWG. NO. ADV-7861
TITLE		DIAGRAM, SCHEMATIC GM 50-150KW	
SHEET		1-6	

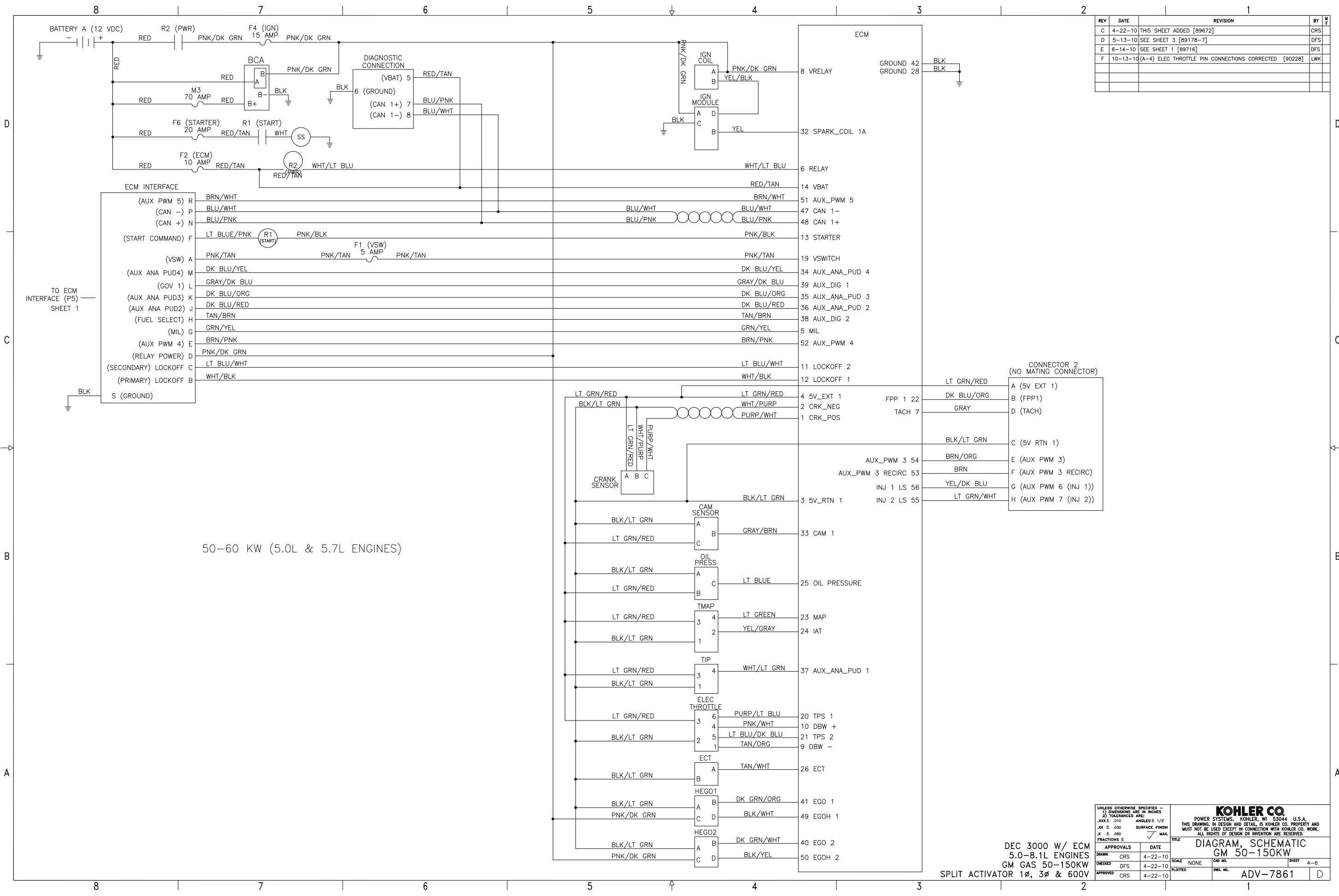
DEC 3000 W/ ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

REV	DATE	REVISION	BY	W	F
B	2-18-10	(A-1) SHEET 2-3 WAS 2-2; AUTO CHANGEOVER NATURAL/L.P. GAS			
		FUEL SYSTEMS MOVED TO SHEET 3 & SEE SHEETS 1 & 3 [89178-4]	DFS		
C	4-22-10	(A-1) SHEET 2-6 WAS 2-3 [89672]	CRS		
D	5-13-10	SEE SHEET 3 [89178-7]	DFS		
E	6-14-10	SEE SHEET 1 [89716]	DFS		
F	10-13-10	SEE SHEET 4 [90228]	LWK		



DEC 3000 W/ ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±				KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
APPROVALS		DATE		TITLE			
DRAWN		CRS		11-6-09			
CHECKED		DFS		11-6-09			
APPROVED		CRS		11-6-09			
SCALE		NONE		CAD NO.		SHEET	
PLOTTED		DWG. NO.		ADV-7861		D	



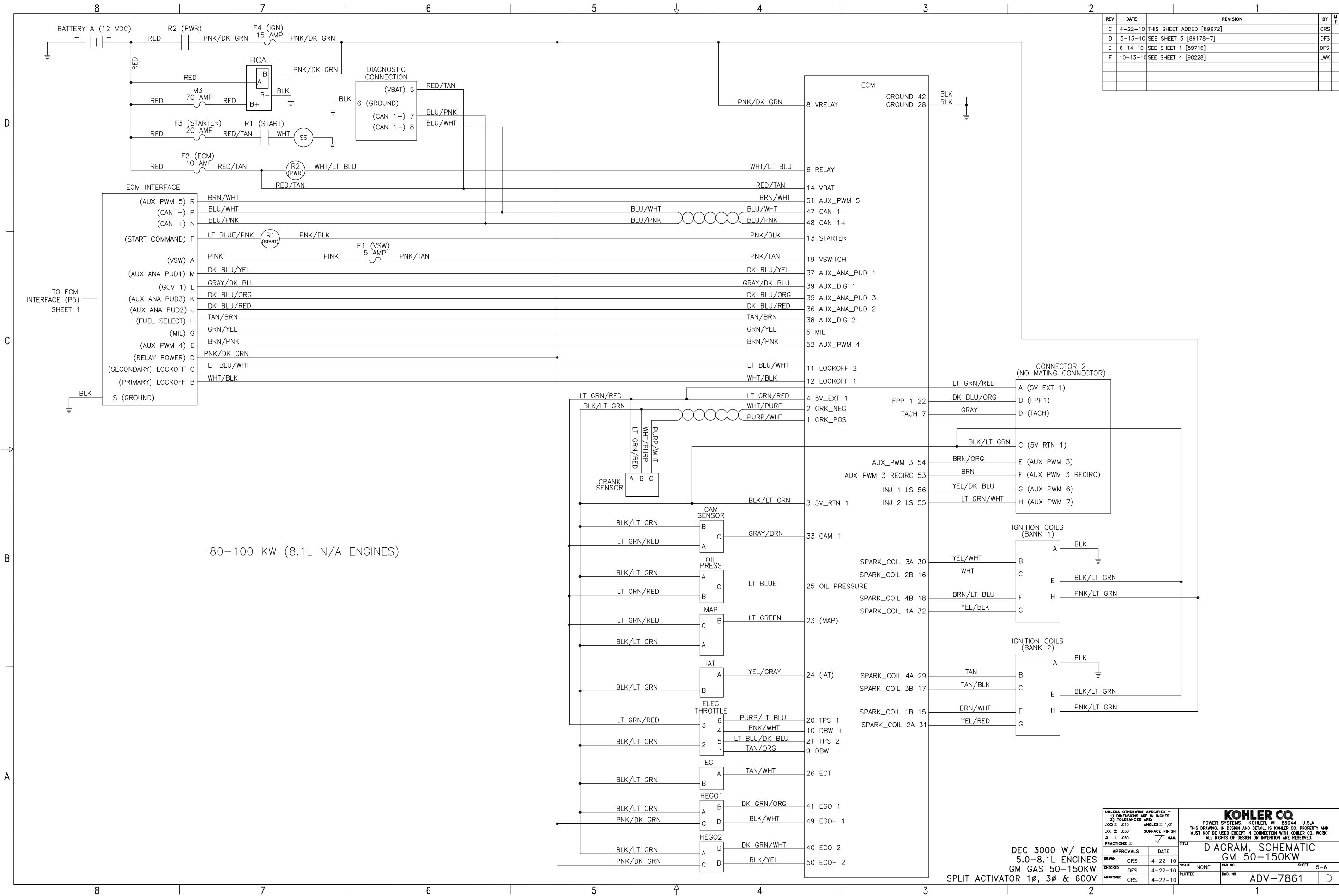
REV	DATE	REVISION	BY	W
C	4-22-10	THIS SHEET ADDED [89672]	CRS	
D	5-13-10	SEE SHEET 3 [89178-7]	DFS	
E	6-14-10	SEE SHEET 1 [89716]	DFS	
F	10-13-10	(A-4) ELEC THROTTLE PIN CONNECTIONS CORRECTED [90228]	LWK	

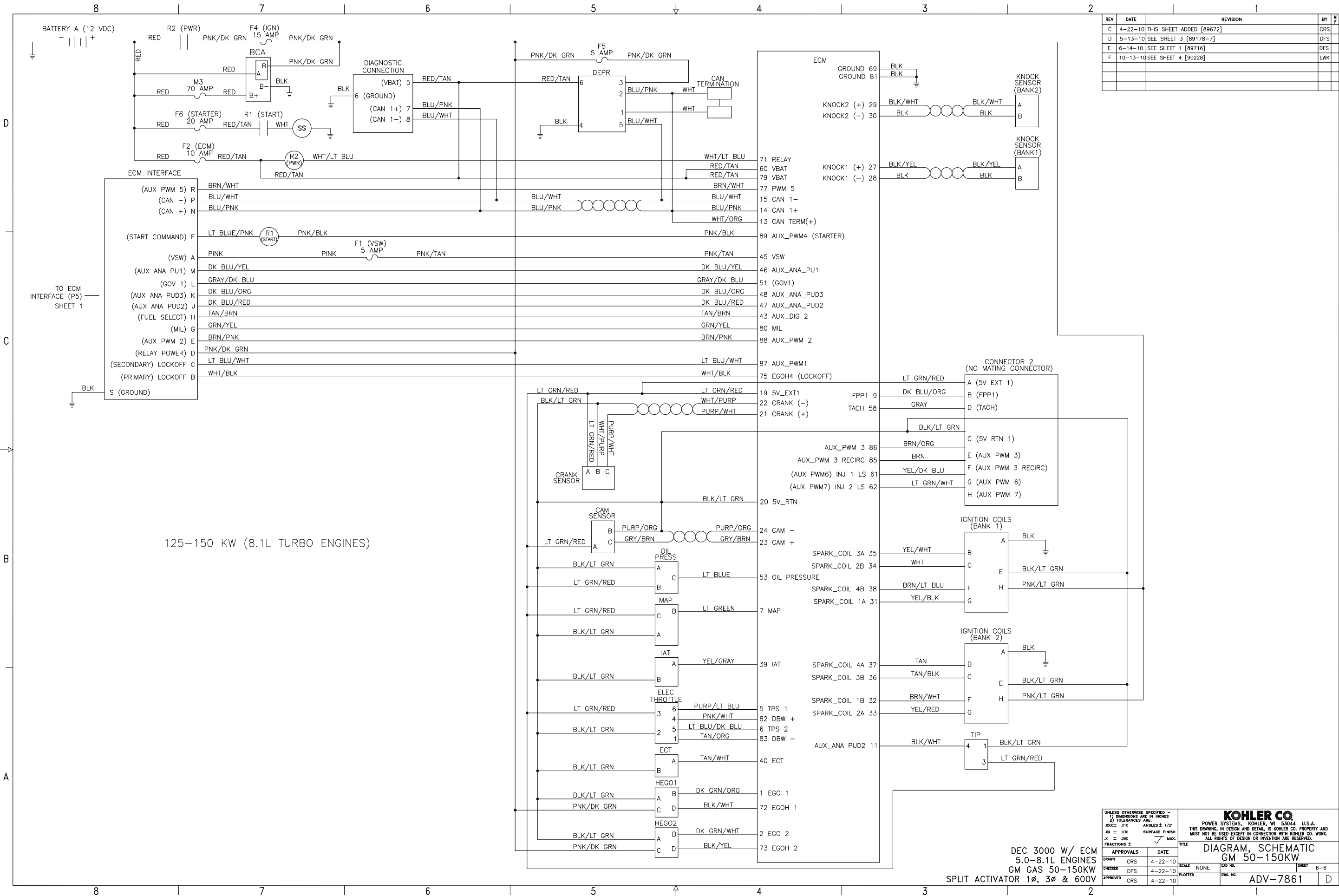
CONNECTOR 2
(NO MATING CONNECTOR)

A (5V EXT 1)
B (FPP1)
D (TACH)
C (5V RTN 1)
E (AUX PWM 3)
F (AUX PWM 3 RECIRC)
G (AUX PWM 6 (INJ 1))
H (AUX PWM 7 (INJ 2))

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	TITLE
DRAWN	CRS	4-22-10	SCALE NONE
CHECKED	DFS	4-22-10	SHEET 4-6
APPROVED	CRS	4-22-10	PLOTTED
DWG. NO.		ADV-7861	

DEC 3000 W/ ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

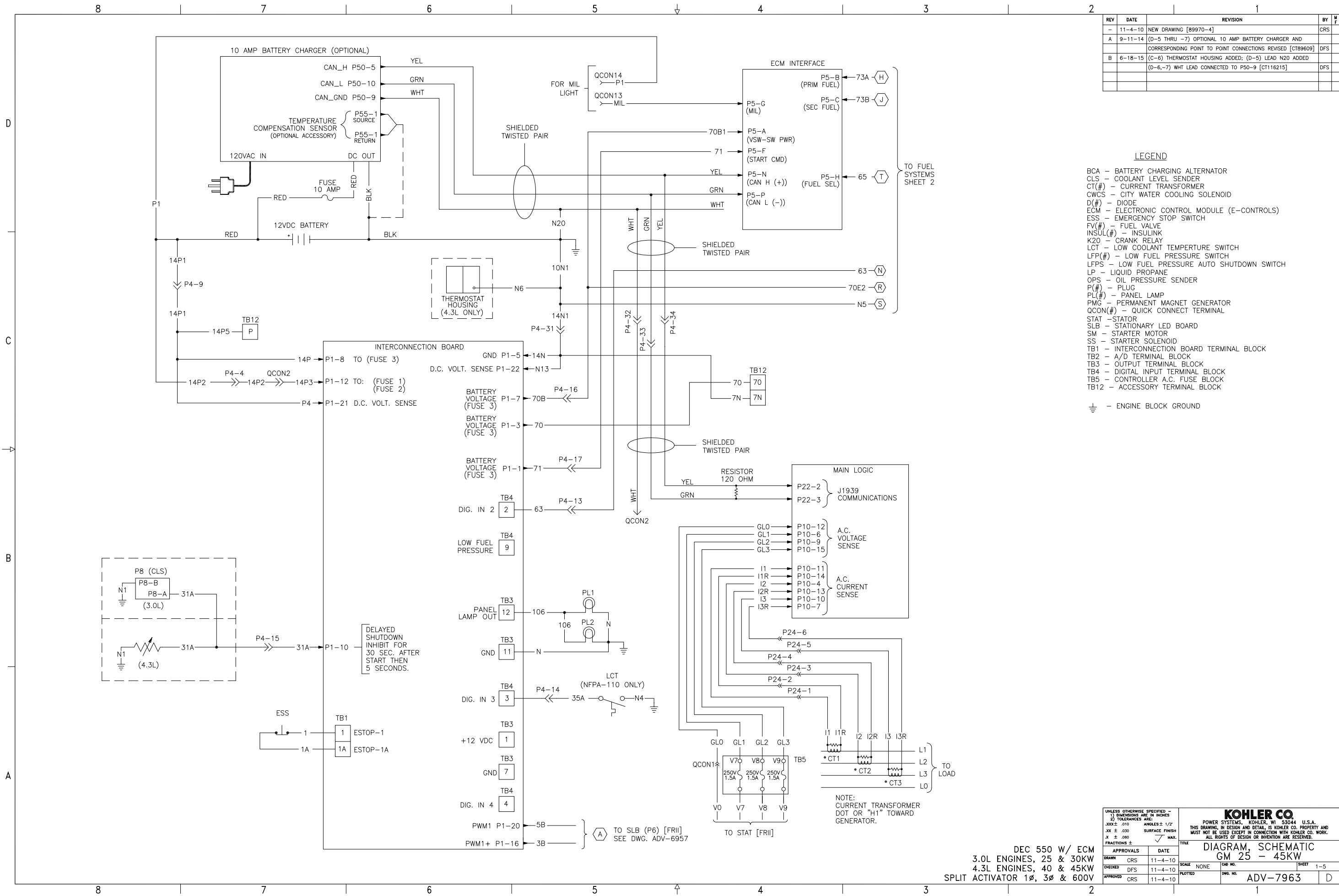


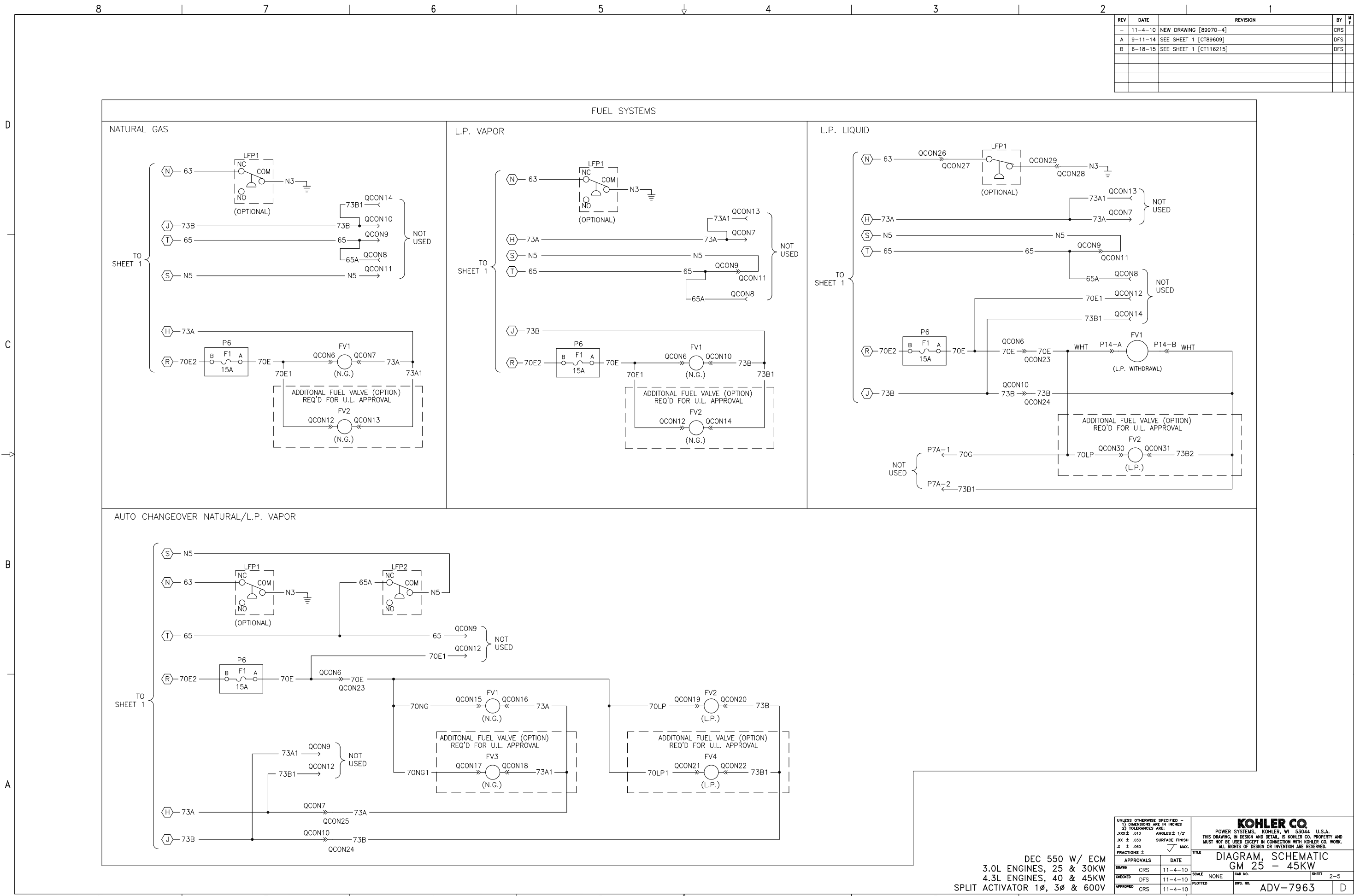


REV	DATE	REVISION	BY	W
C	4-22-10	THIS SHEET ADDED [89672]	CRS	
D	5-13-10	SEE SHEET 3 [89178-7]	DFS	
E	6-14-10	SEE SHEET 1 [89716]	DFS	
F	10-13-10	SEE SHEET 4 [90228]	LWK	

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		APPROVALS		DATE
DRAWN	CRS	4-22-10		
CHECKED	DFS	4-22-10		
APPROVED	CRS	4-22-10		
TITLE		SCALE	NONE	CAD NO.
DIAGRAM, SCHEMATIC		PLOTTED		
GM 50-150KW		DWG. NO.	ADV-7861	SHEET 6-6

DEC 3000 W/ ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

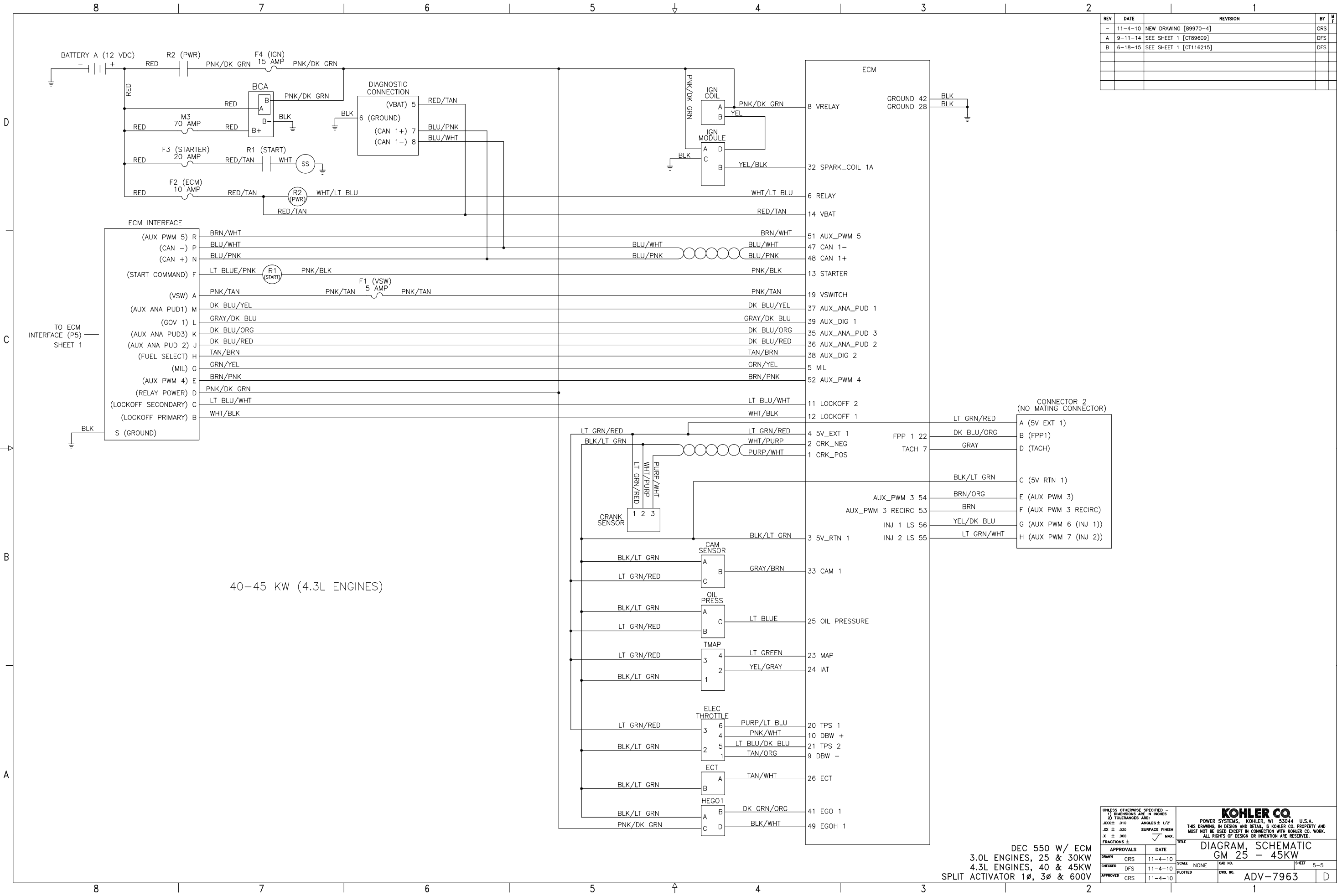




REV	DATE	REVISION	BY	FR
-	11-4-10	NEW DRAWING [89970-4]	CRS	
A	9-11-14	SEE SHEET 1 [CT89609]	DFS	
B	6-18-15	SEE SHEET 1 [CT116215]	DFS	

DEC 550 w/ ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

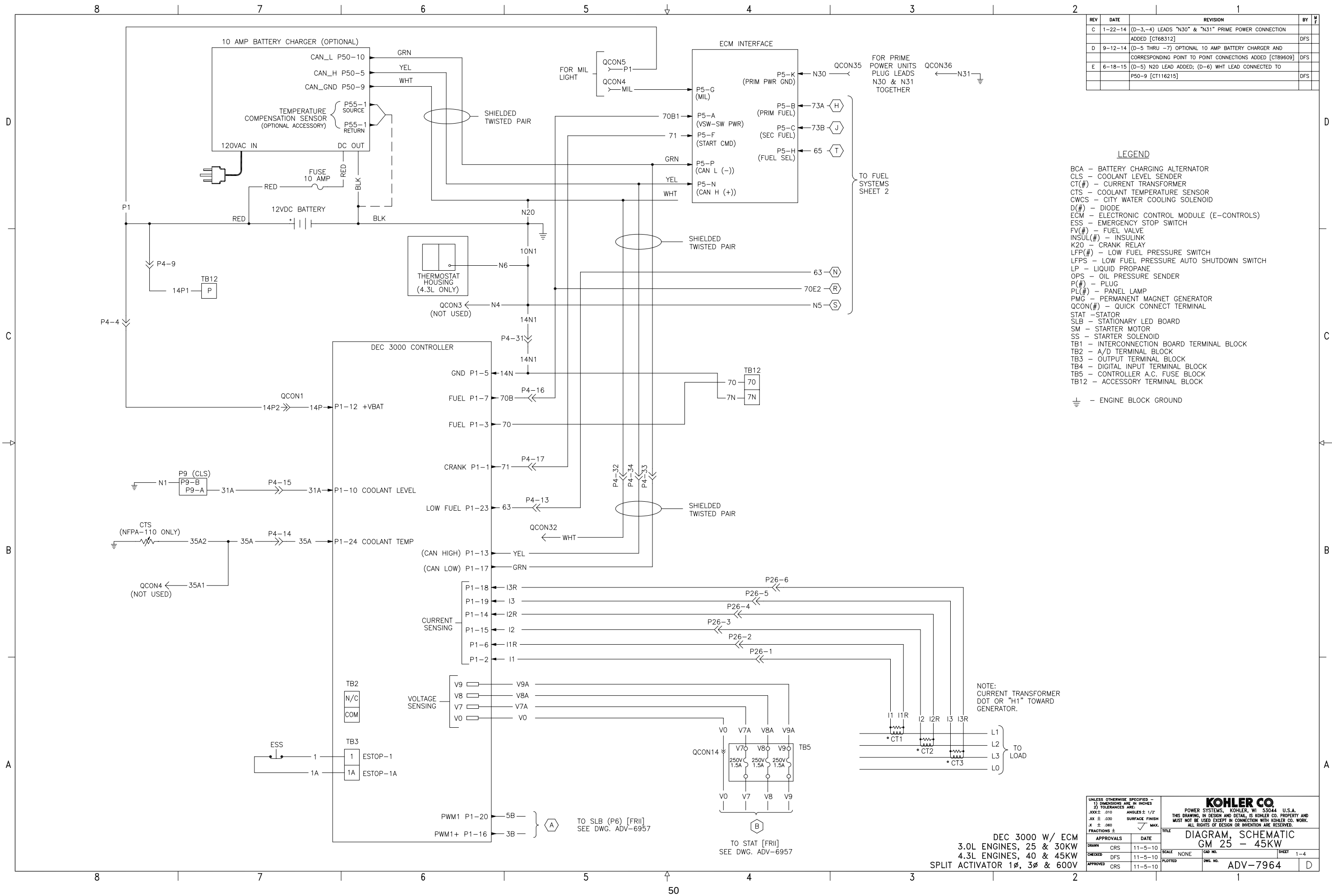
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .040 FRACTIONS ± MAX.		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS	DATE	TITLE	SHEET
DRAWN CRS	11-4-10	DIAGRAM, SCHEMATIC GM 25 - 45KW	2-5
CHECKED DFS	11-4-10	SCALE NONE	
APPROVED CRS	11-4-10	PLOTTED	
		DWG. NO. ADV-7963	D



REV	DATE	REVISION	BY
-	11-4-10	NEW DRAWING [89970-4]	CRS
A	9-11-14	SEE SHEET 1 [CT89609]	DFS
B	6-18-15	SEE SHEET 1 [CT116215]	DFS

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° XX ± .030 SURFACE FINISH X ± .060 FRACTIONS ± MAX.		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN	CRS	11-4-10	
CHECKED	DFS	11-4-10	
APPROVED	CRS	11-4-10	
SCALE: NONE		SHEET 5-5	
PLOTTED		DWG. NO. ADV-7963	
		D	

DEC 550 W/ ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V



REV	DATE	REVISION	BY	W	F
C	1-22-14	(D-3,-4) LEADS "N30" & "N31" PRIME POWER CONNECTION ADDED [CT68312]	DFS		
D	9-12-14	(D-5 THRU -7) OPTIONAL 10 AMP BATTERY CHARGER AND CORRESPONDING POINT TO POINT CONNECTIONS ADDED [CT89609]	DFS		
E	6-18-15	(D-5) N20 LEAD ADDED; (D-6) WHT LEAD CONNECTED TO P50-9 [CT116215]	DFS		

LEGEND

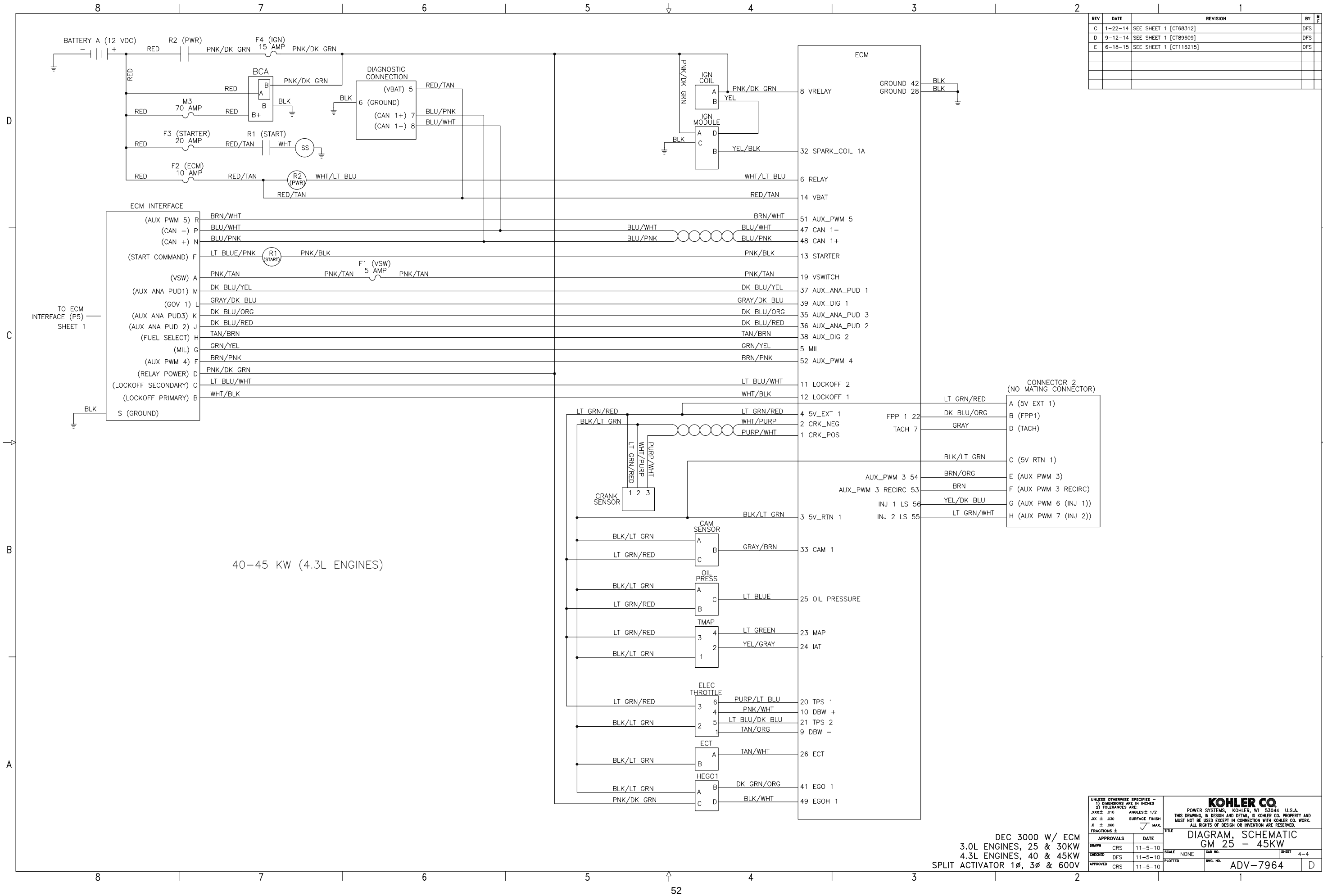
BCA - BATTERY CHARGING ALTERNATOR
CLS - COOLANT LEVEL SENDER
CT(##) - CURRENT TRANSFORMER
CTS - COOLANT TEMPERATURE SENSOR
CWCS - CITY WATER COOLING SOLENOID
D(##) - DIODE
ECM - ELECTRONIC CONTROL MODULE (E-CONTROLS)
ESS - EMERGENCY STOP SWITCH
FV(##) - FUEL VALVE
INSUL(##) - INSULINK
K20 - CRANK RELAY
LFP(##) - LOW FUEL PRESSURE SWITCH
LFPS - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
LP - LIQUID PROPANE
OPS - OIL PRESSURE SENDER
P(##) - PLUG
PL(##) - PANEL LAMP
PMG - PERMANENT MAGNET GENERATOR
QCON(##) - QUICK CONNECT TERMINAL
STAT - STATOR
SLB - STATIONARY LED BOARD
SM - STARTER MOTOR
SS - STARTER SOLENOID
TB1 - INTERCONNECTION BOARD TERMINAL BLOCK
TB2 - A/D TERMINAL BLOCK
TB3 - OUTPUT TERMINAL BLOCK
TB4 - DIGITAL INPUT TERMINAL BLOCK
TB5 - CONTROLLER A.C. FUSE BLOCK
TB12 - ACCESSORY TERMINAL BLOCK

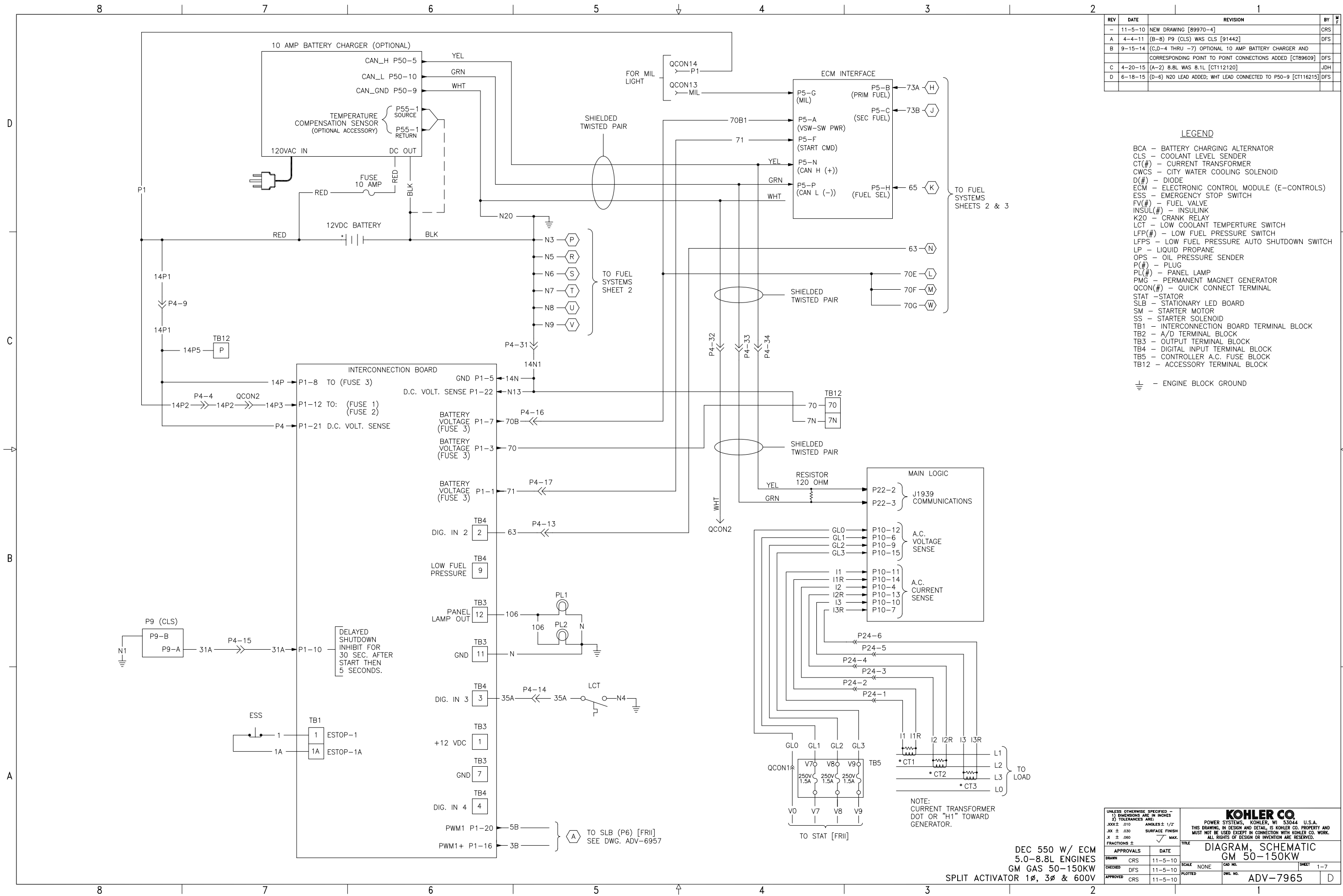
⏏ - ENGINE BLOCK GROUND

NOTE:
CURRENT TRANSFORMER
DOT OR "H1" TOWARD
GENERATOR.

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN	CRS	11-5-10	SCALE NONE
CHECKED	DFS	11-5-10	PLOTTED
APPROVED	CRS	11-5-10	DWG. NO. ADV-7964
SHEET		1-4	

DEC 3000 W/ ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V





REV	DATE	REVISION	BY	W
-	11-5-10	NEW DRAWING [89970-4]	CRS	
A	4-4-11	(B-8) P9 (CLS) WAS CLS [91442]	DFS	
B	9-15-14	(C,D-4 THRU -7) OPTIONAL 10 AMP BATTERY CHARGER AND	DFS	
		CORRESPONDING POINT TO POINT CONNECTIONS ADDED [CT89609]		
C	4-20-15	(A-2) 8.8L WAS 8.1L [CT112120]	JDH	
D	6-18-15	(D-6) N20 LEAD ADDED; WHT LEAD CONNECTED TO P50-9 [CT116215]	DFS	

LEGEND

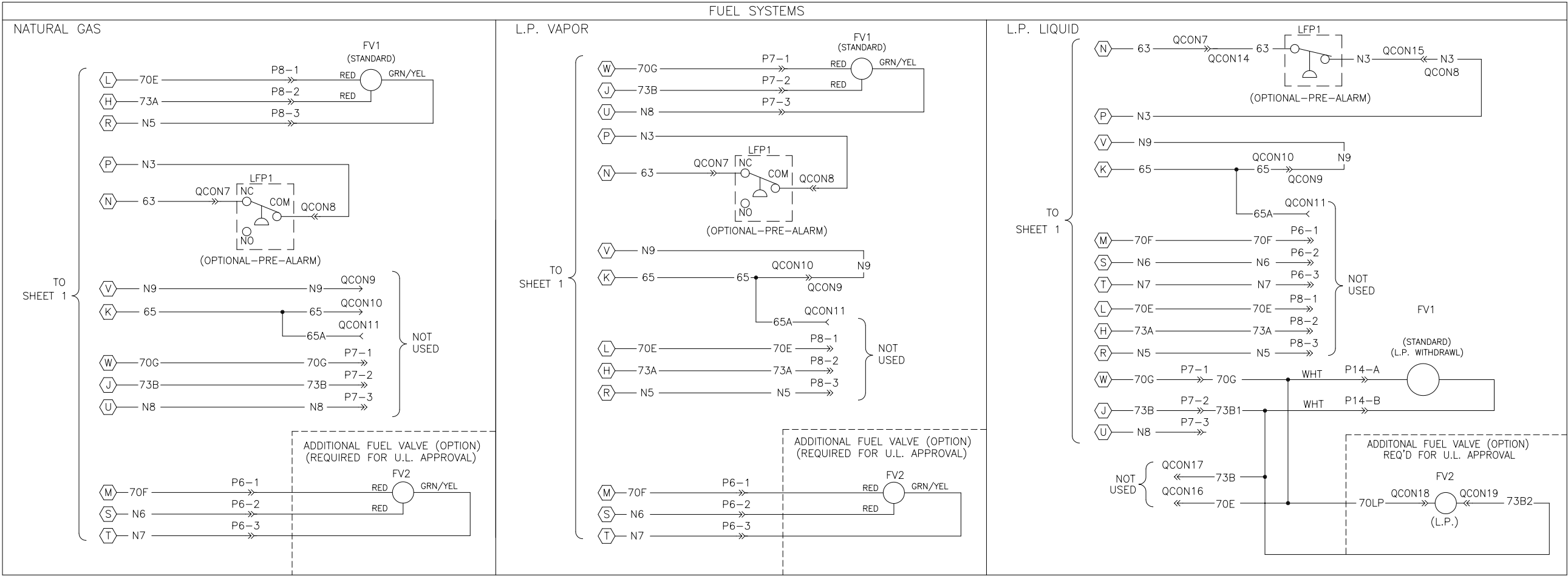
BCA - BATTERY CHARGING ALTERNATOR
CLS - COOLANT LEVEL SENDER
CT(##) - CURRENT TRANSFORMER
CWCS - CITY WATER COOLING SOLENOID
D(##) - DIODE
ECM - ELECTRONIC CONTROL MODULE (E-CONTROLS)
ESS - EMERGENCY STOP SWITCH
FV(##) - FUEL VALVE
INSUL(##) - INSULINK
K20 - CRANK RELAY
LCT - LOW COOLANT TEMPERATURE SWITCH
LFP(##) - LOW FUEL PRESSURE SWITCH
LFP - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
LP - LIQUID PROPANE
OPS - OIL PRESSURE SENDER
P(##) - PLUG
PL(##) - PANEL LAMP
PMG - PERMANENT MAGNET GENERATOR
QCON(##) - QUICK CONNECT TERMINAL
STAT - STATOR
SLB - STATIONARY LED BOARD
SM - STARTER MOTOR
SS - STARTER SOLENOID
TB1 - INTERCONNECTION BOARD TERMINAL BLOCK
TB2 - A/D TERMINAL BLOCK
TB3 - OUTPUT TERMINAL BLOCK
TB4 - DIGITAL INPUT TERMINAL BLOCK
TB5 - CONTROLLER A.C. FUSE BLOCK
TB12 - ACCESSORY TERMINAL BLOCK

⏏ - ENGINE BLOCK GROUND

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° XX ± .030 SURFACE FINISH X ± .060 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS	DATE	TITLE	SHEET
DRAWN CRS	11-5-10	SCALE NONE	1-7
CHECKED DFS	11-5-10	PLOTTED	
APPROVED CRS	11-5-10	DWG. NO. ADV-7965	D

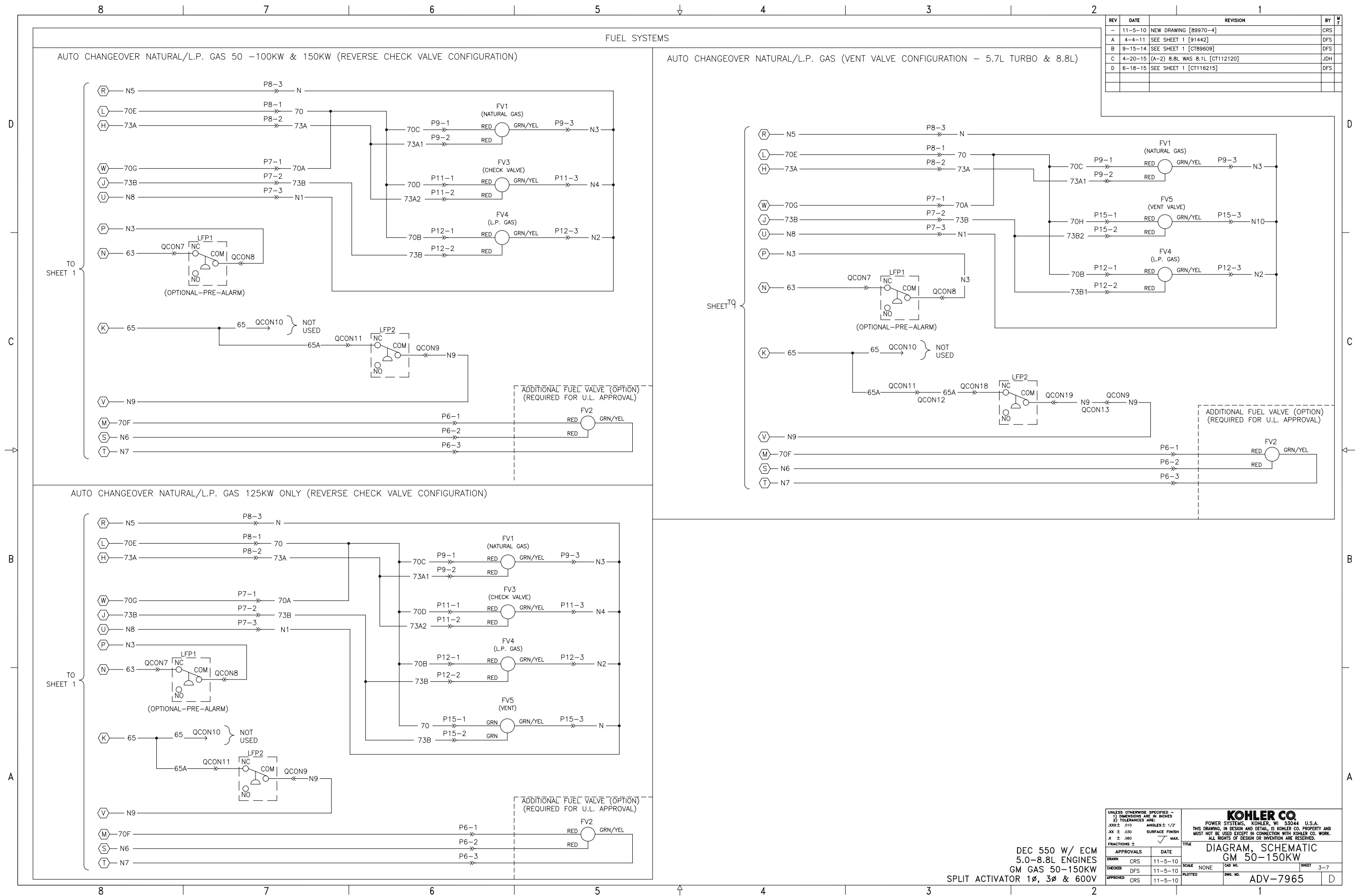
DEC 550 W/ ECM
5.0-8.8L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

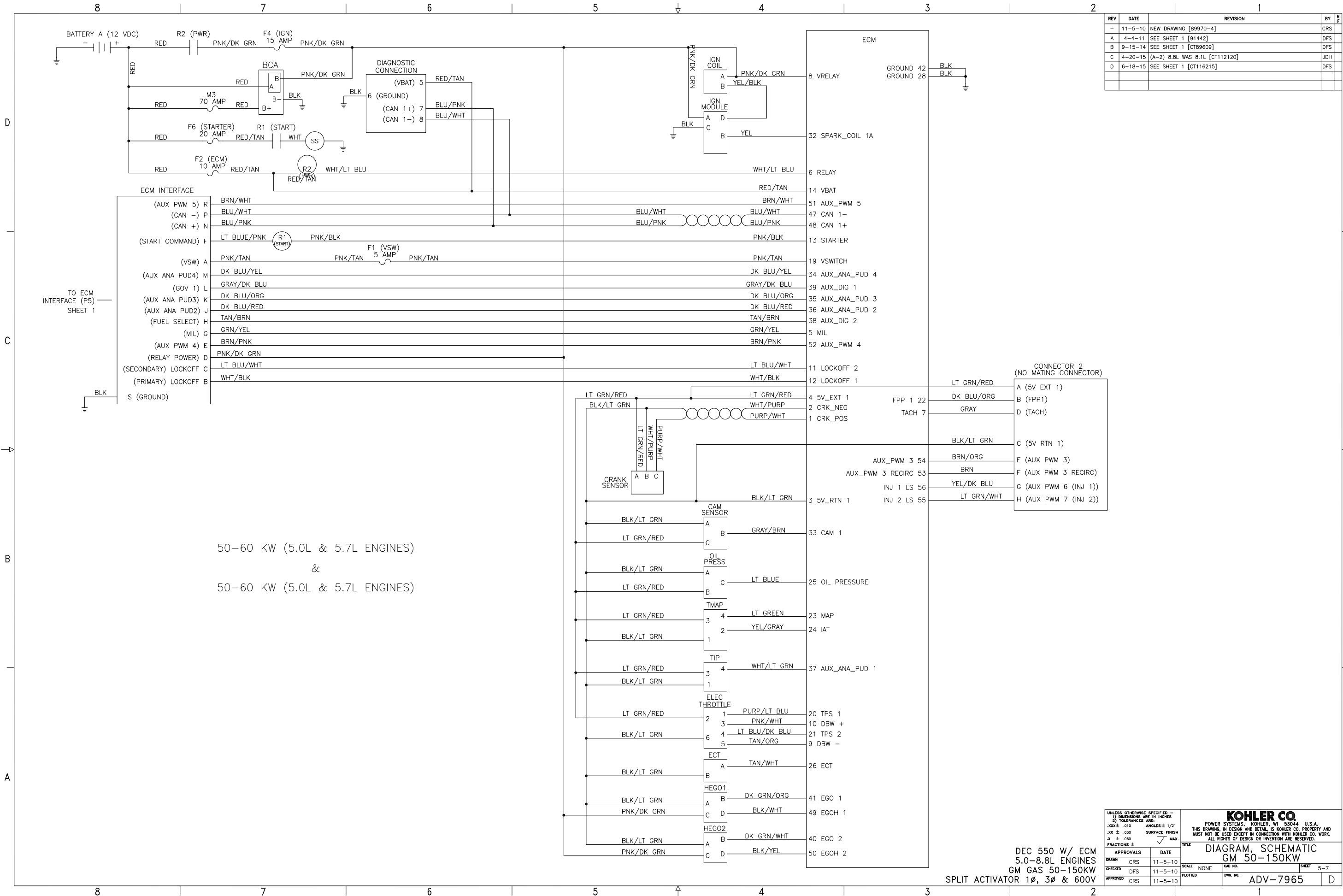
REV	DATE	REVISION	BY	W
-	11-5-10	NEW DRAWING [89970-4]	CRS	F
A	4-4-11	SEE SHEET 1 [91442]	DFS	
B	9-15-14	SEE SHEET 1 [CT89609]	DFS	
C	4-20-15	(A-2) 8.8L WAS 8.1L [CT112120]	JDH	
D	6-18-15	SEE SHEET 1 [CT116215]	DFS	



DEC 550 W/ ECM
5.0-8.8L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

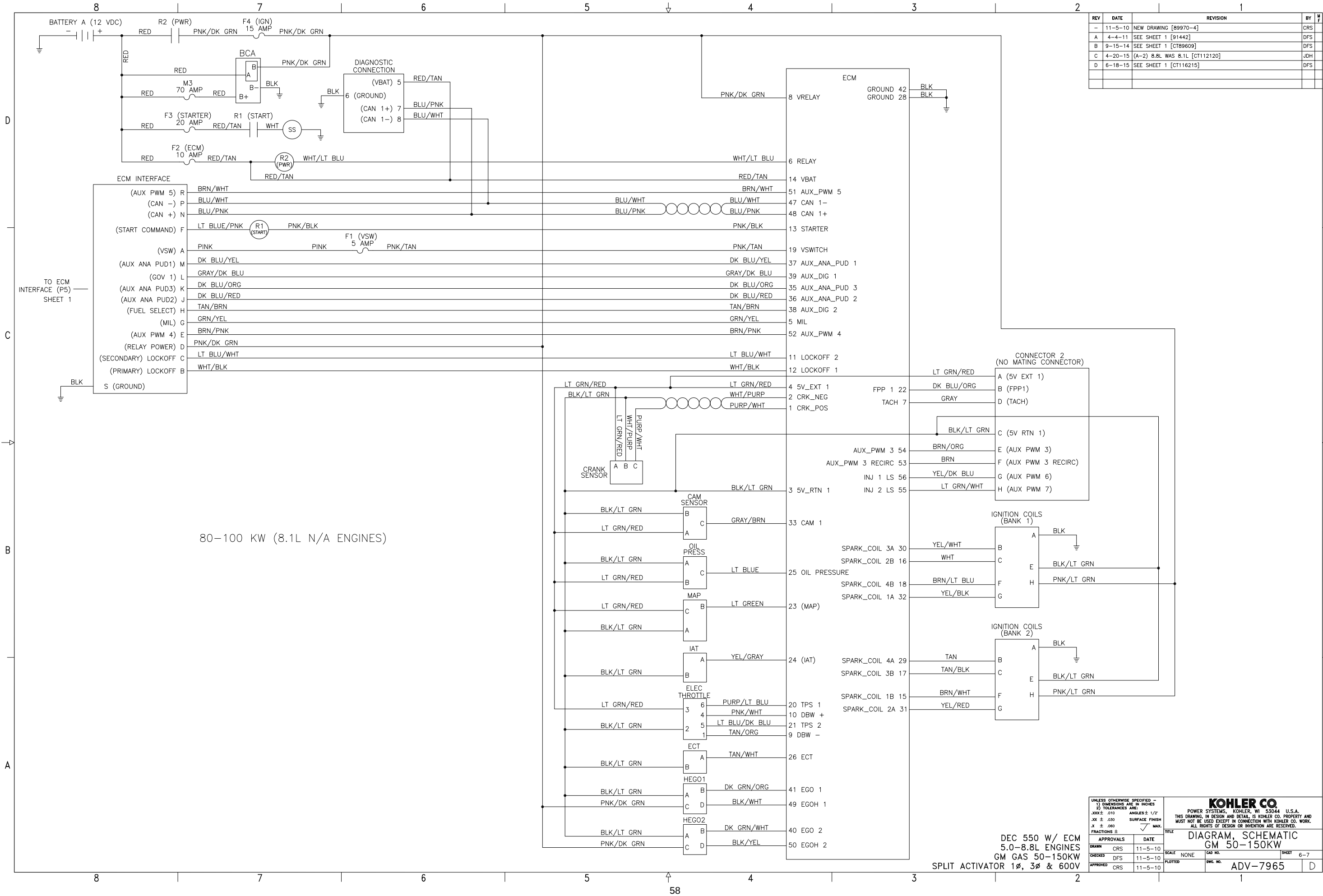
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 XX ± .030 X ± .060 FRACTIONS ±		ANGLES ± 1/2° SURFACE FINISH ✓ MAX.		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE		TITLE DIAGRAM, SCHEMATIC GM 50-150KW	
DRAWN	CRS	11-5-10		SCALE	NONE
CHECKED	DFS	11-5-10		CAD NO.	
APPROVED	CRS	11-5-10		PLOTTED	
				DWG. NO.	ADV-7965
				SHEET	2-7
					D





REV	DATE	REVISION	BY	W
-	11-5-10	NEW DRAWING [89970-4]	CRS	F
A	4-4-11	SEE SHEET 1 [91442]	DFS	
B	9-15-14	SEE SHEET 1 [CT89609]	DFS	
C	4-20-15	(A-2) 8.8L WAS 8.1L [CT112120]	JDH	
D	6-18-15	SEE SHEET 1 [CT116215]	DFS	

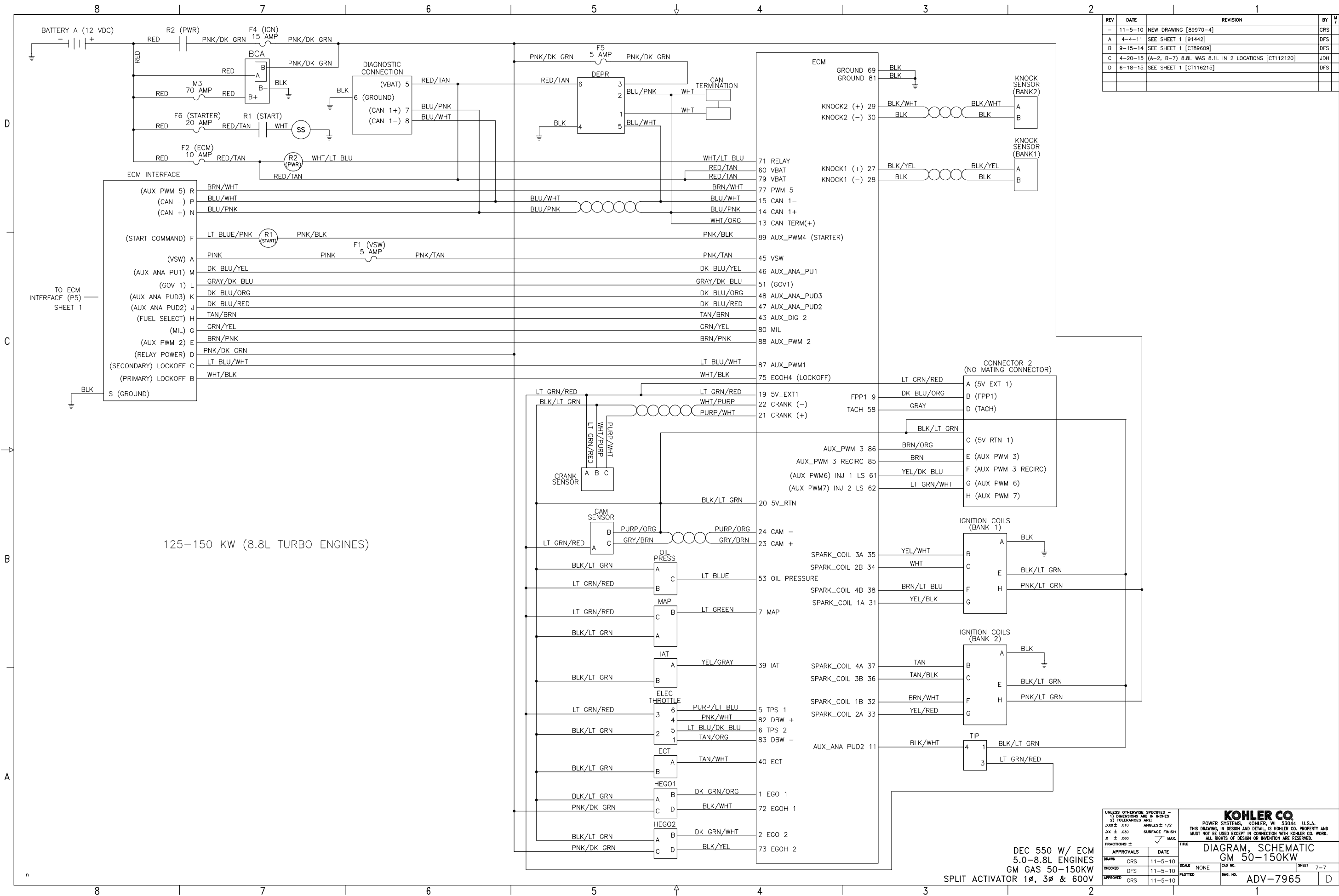
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX.X ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		APPROVALS		DATE
DRAWN	CRS	11-5-10	SCALE	NONE
CHECKED	DFS	11-5-10	CAD NO.	
APPROVED	CRS	11-5-10	PLOTTED	
DRAWING NO.		SHEET		5-7
ADV-7965		D		



REV	DATE	REVISION	BY	W
-	11-5-10	NEW DRAWING [89970-4]	CRS	
A	4-4-11	SEE SHEET 1 [91442]	DFS	
B	9-15-14	SEE SHEET 1 [CT89609]	DFS	
C	4-20-15	(A-2) 8.8L WAS 8.1L [CT112120]	JDH	
D	6-18-15	SEE SHEET 1 [CT116215]	DFS	

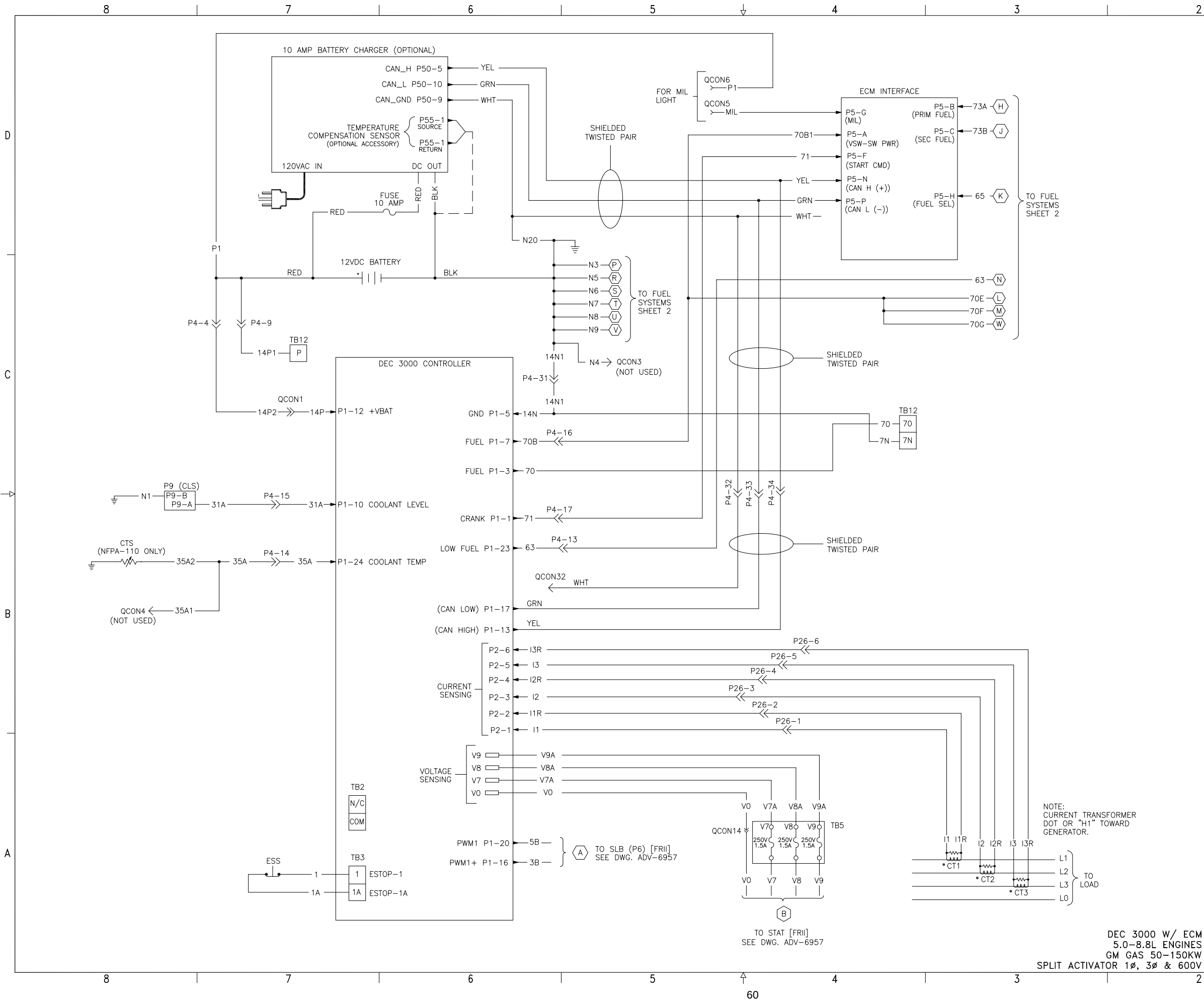
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° XX ± .030 SURFACE FINISH X ± .060 FRACTIONS ± MAX.		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN	CRS	11-5-10	
CHECKED	DFS	11-5-10	
APPROVED	CRS	11-5-10	
SCALE		NONE	
PLOTTED		DWC NO.	
TITLE		DIAGRAM, SCHEMATIC GM 50-150KW	
DWG. NO.		ADV-7965	
SHEET		6-7	
		D	

DEC 550 W/ ECM
5.0-8.8L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V



REV	DATE	REVISION	BY	W
-	11-5-10	NEW DRAWING [89970-4]	CRS	F
A	4-4-11	SEE SHEET 1 [91442]	DFS	
B	9-15-14	SEE SHEET 1 [CT89609]	DFS	
C	4-20-15	(A-2, B-7) 8.8L WAS 8.1L IN 2 LOCATIONS [CT112120]	JDH	
D	6-18-15	SEE SHEET 1 [CT116215]	DFS	

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH X ± .060 FRACTIONS ± MAX.		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN	CRS	11-5-10	
CHECKED	DFS	11-5-10	
APPROVED	CRS	11-5-10	
TITLE		SCALE	SHEET
DIAGRAM, SCHEMATIC		NONE	7-7
GM 50-150KW		DWG. NO.	
ADV-7965			D



REV	DATE	REVISION	BY	W	F
-	11-5-10	NEW DRAWING [89970-4]	CRS		
A	9-15-14	(C,D-4 THRU -7) OPTIONAL 10 AMP BATTERY CHARGER AND CORRESPONDING POINT TO POINT CONNECTIONS ADDED [CT89609]	DFS		
B	4-20-15	(A-2) 8.8L WAS 8.1L [CT112120]	JDH		
C	6-19-15	(C-6) N20 LEAD ADDED; (D-6) WHT LEAD CONNECTED TO P50-9 [CT116215]	DFS		

LEGEND

BCA - BATTERY CHARGING ALTERNATOR
CLS - COOLANT LEVEL SENDER
CT(#) - CURRENT TRANSFORMER
CWCS - CITY WATER COOLING SOLENOID
D(#) - DIODE
ECM - ELECTRONIC CONTROL MODULE (E-CONTROLS)
ESS - EMERGENCY STOP SWITCH
FV(#) - FUEL VALVE
INSUL(#) - INSULINK
K20 - CRANK RELAY
LCT - LOW COOLANT TEMPERTURE SWITCH
LFP(#) - LOW FUEL PRESSURE SWITCH
LFPs - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
LP - LIQUID PROPANE
OPS - OIL PRESSURE SENDER
P(#) - PLUG
PL(#) - PANEL LAMP
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TB5 - CONTROLLER A.C. FUSE BLOCK
TB12 - ACCESSORY TERMINAL BLOCK

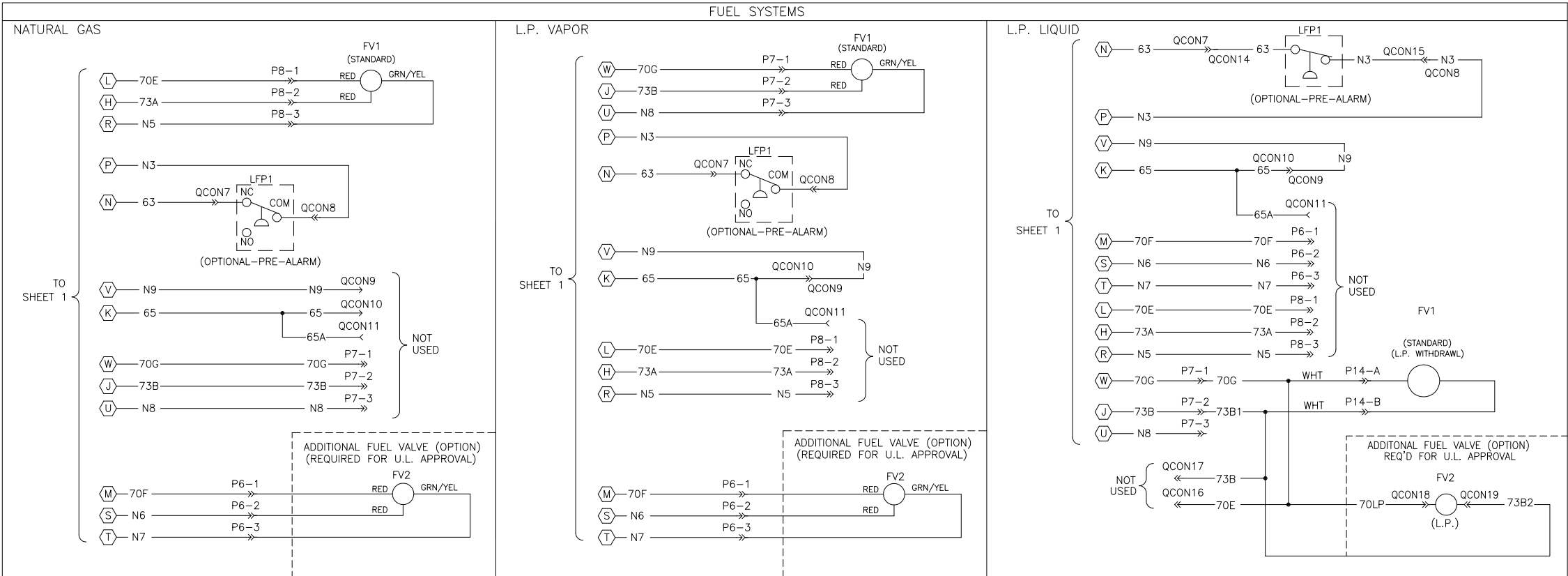
⏏ - ENGINE BLOCK GROUND

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .040 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN CRS	11-5-10	SCALE NONE	CAD NO.
CHECKED DFS	11-5-10	PLOTTED	DWG. NO.
APPROVED CRS	11-5-10	SHEET 1-6	

TITLE **DIAGRAM, SCHEMATIC**
GM 50-150KW
ADV-7966 D

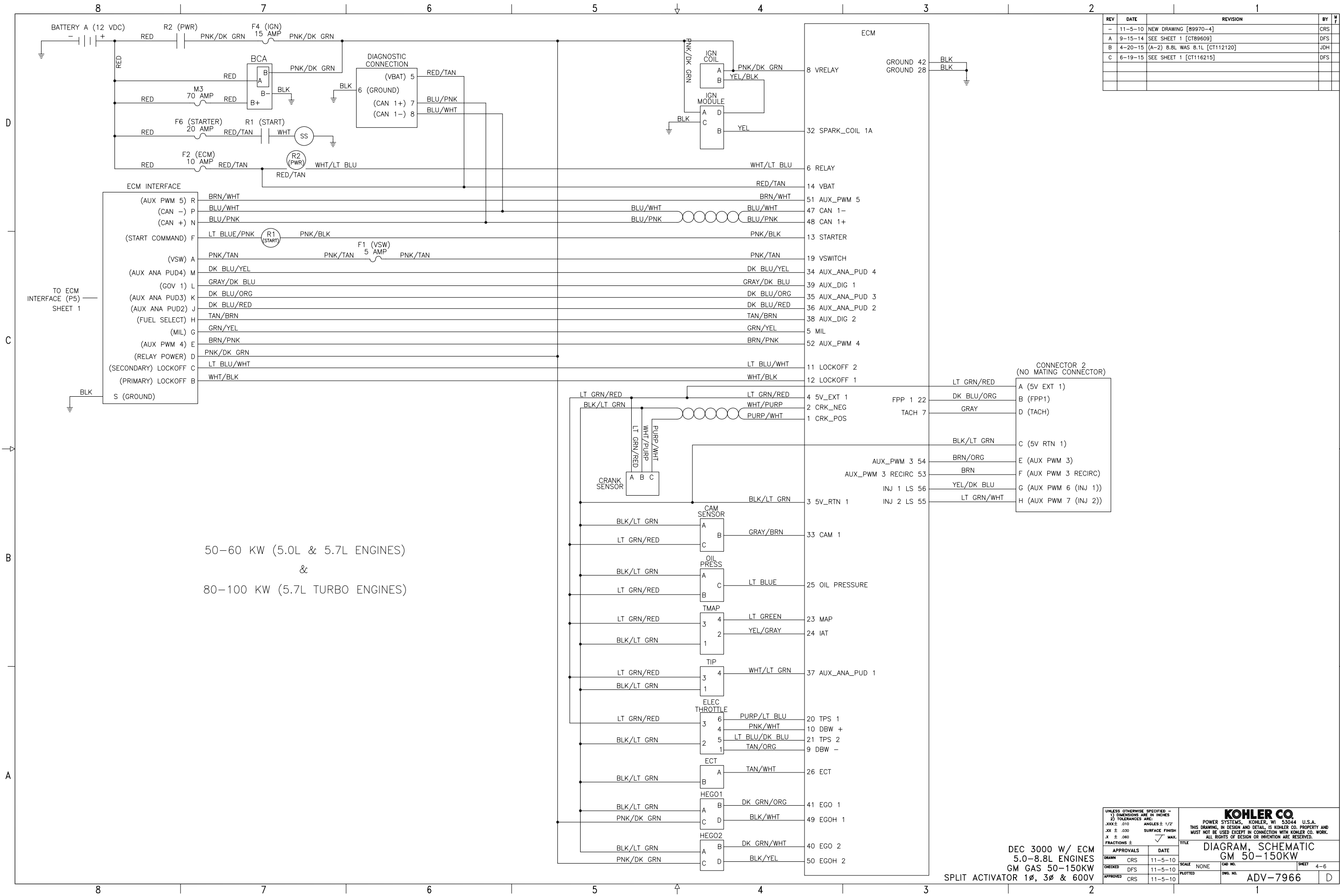
DEC 3000 W/ ECM
5.0-8.8L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

REV	DATE	REVISION	BY	MR
-	11-5-10	NEW DRAWING [89970-4]	CRS	
A	9-15-14	SEE SHEET 1 [CT89609]	DFS	
B	4-20-15	(A-2) 8.8L WAS 8.1L [CT112120]	JDH	
C	6-19-15	SEE SHEET 1 [CT116215]	DFS	



UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .040 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.							
APPROVALS		DATE		TITLE DIAGRAM, SCHEMATIC GM 50-150KW					
DRAWN	CRS	11-5-10		SCALE	NONE	CAD NO.		SHEET	2-6
CHECKED	DFS	11-5-10		PLOTTED		DWG. NO.	ADV-7966		D
APPROVED	CRS	11-5-10							

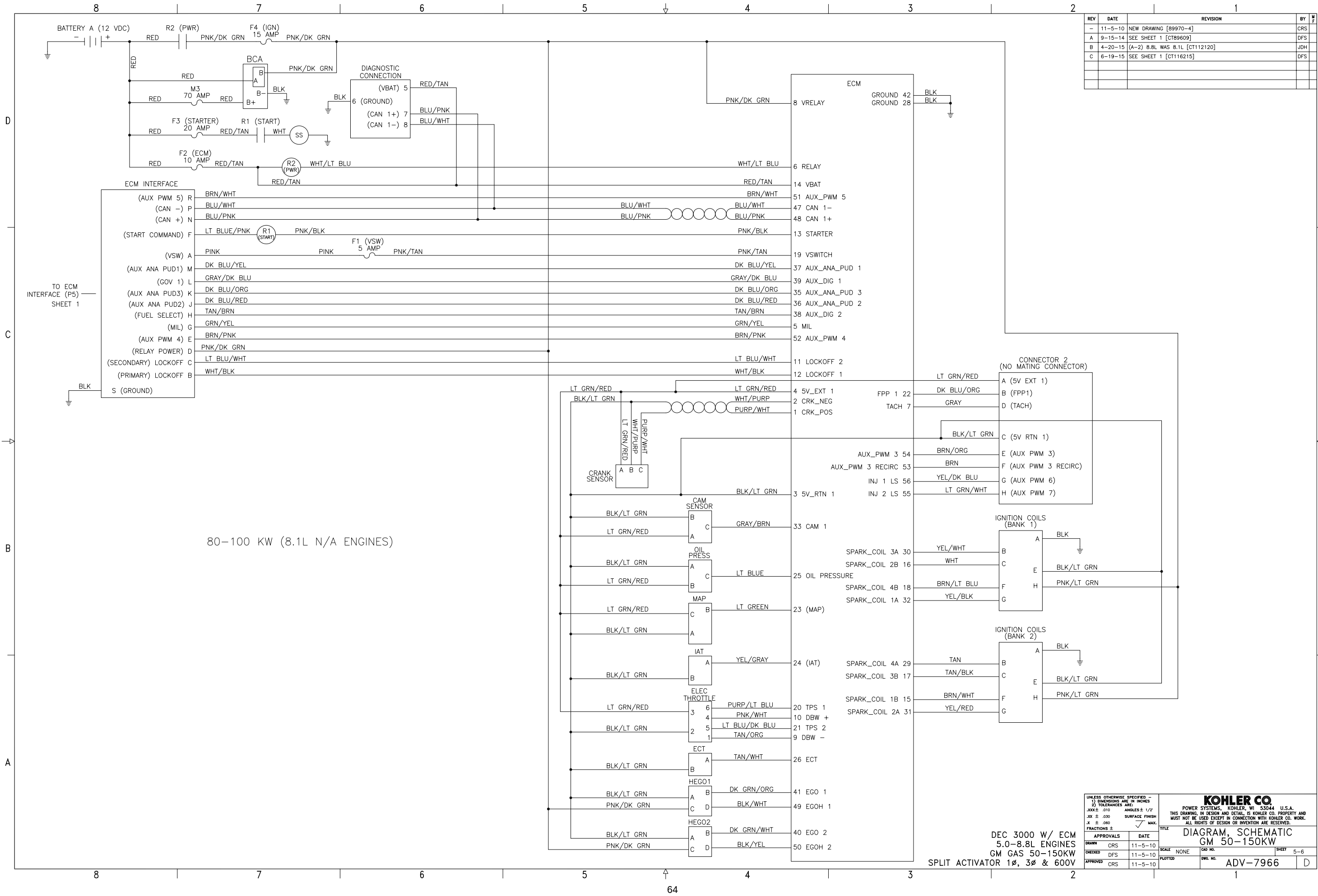
DEC 3000 W/ ECM
5.0-8.8L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

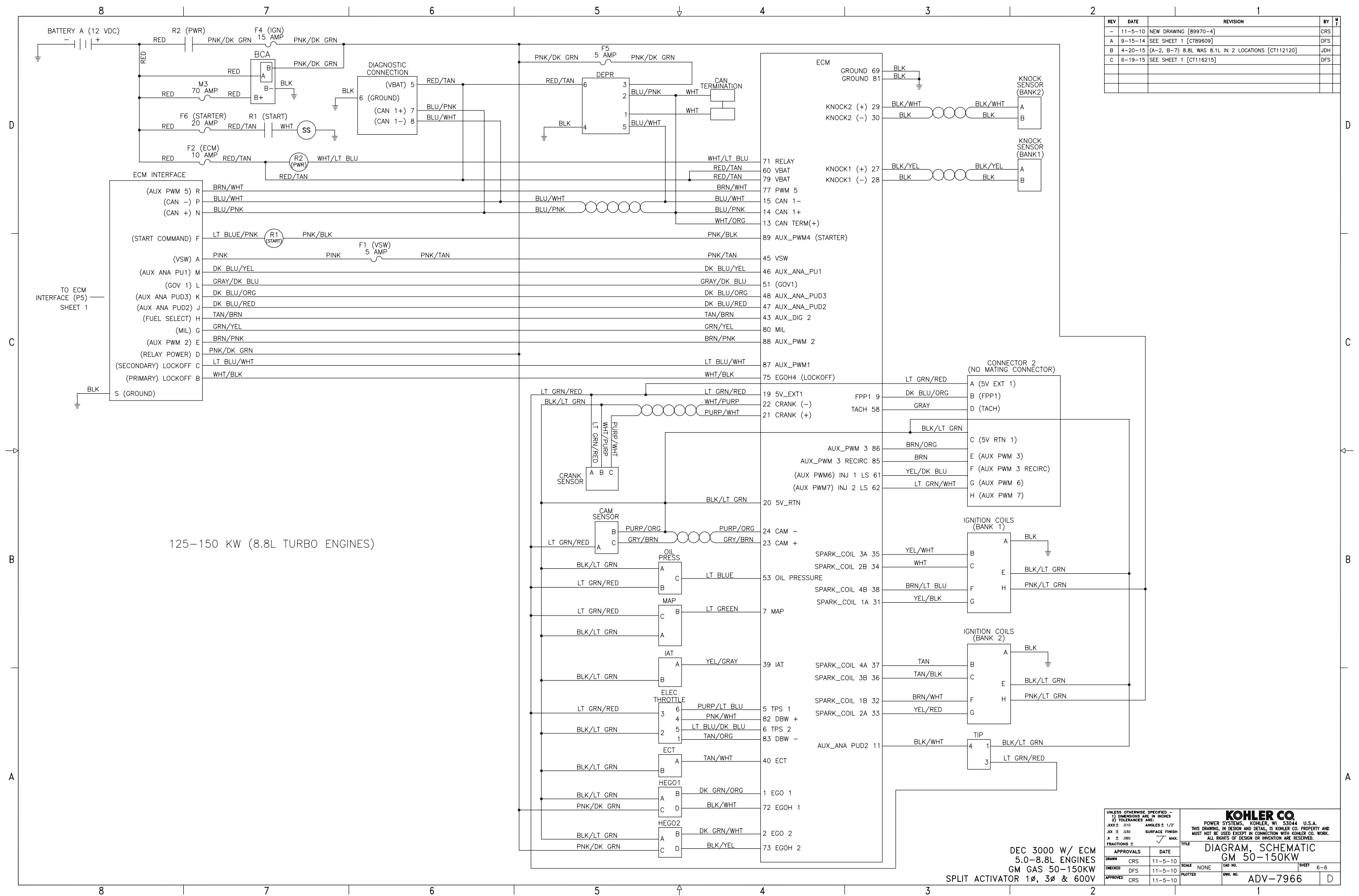


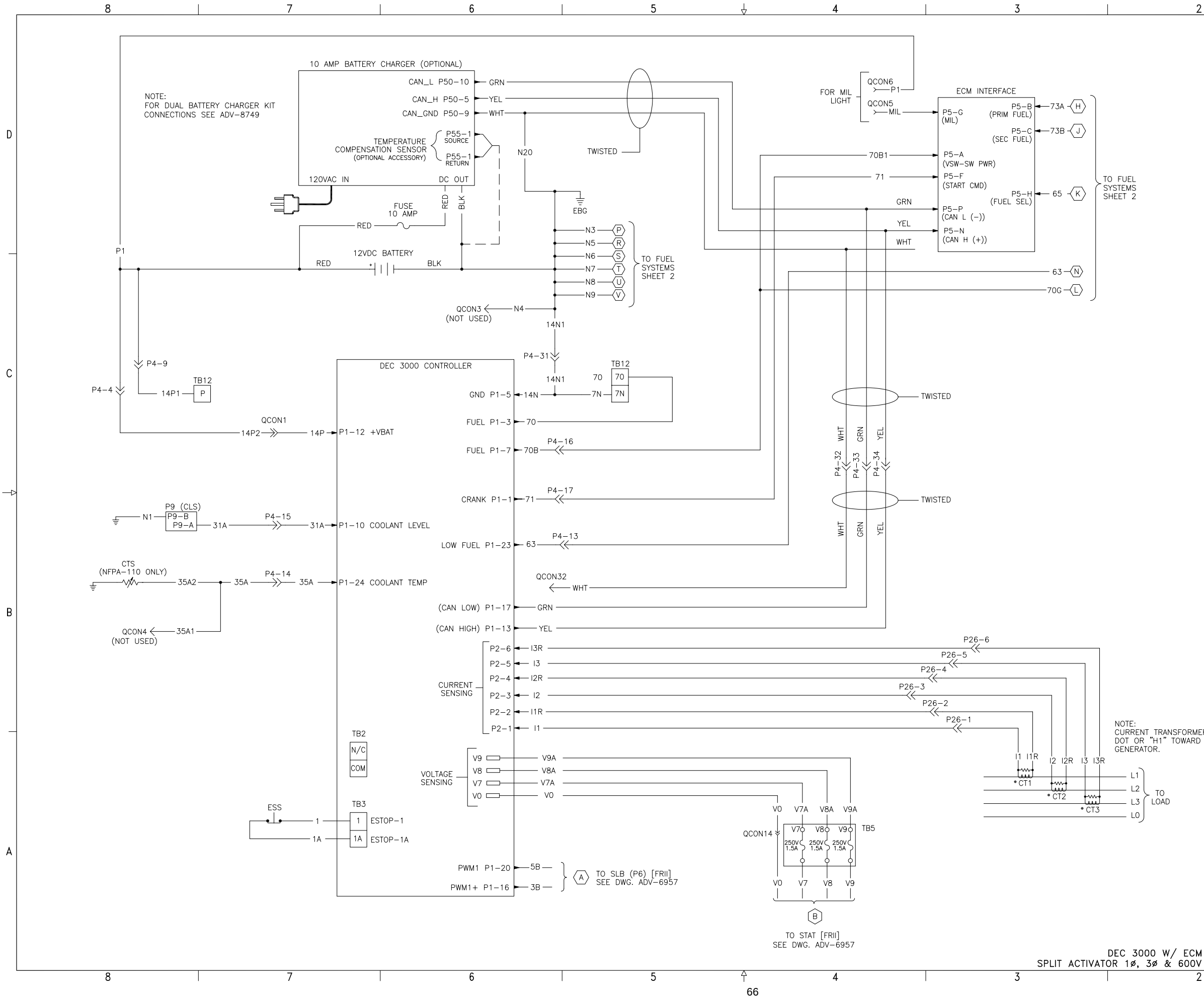
REV	DATE	REVISION	BY	W
-	11-5-10	NEW DRAWING [89970-4]	CRS	
A	9-15-14	SEE SHEET 1 [CT89609]	DFS	
B	4-20-15	(A-2) 8.8L WAS 8.1L [CT112120]	JDH	
C	6-19-15	SEE SHEET 1 [CT116215]	DFS	

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 .XX ± .030 .X ± .040 FRACTIONS ±		ANGLES ± 1/2° SURFACE FINISH ✓ MAX.	
APPROVALS		DATE	
DRAWN	CRS	11-5-10	
CHECKED	DFS	11-5-10	
APPROVED	CRS	11-5-10	
TITLE		SCALE	SHEET
KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.		NONE	4-6
DWG. NO.		PLOTTED	
ADV-7966			D

DEC 3000 W/ ECM
5.0-8.8L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V







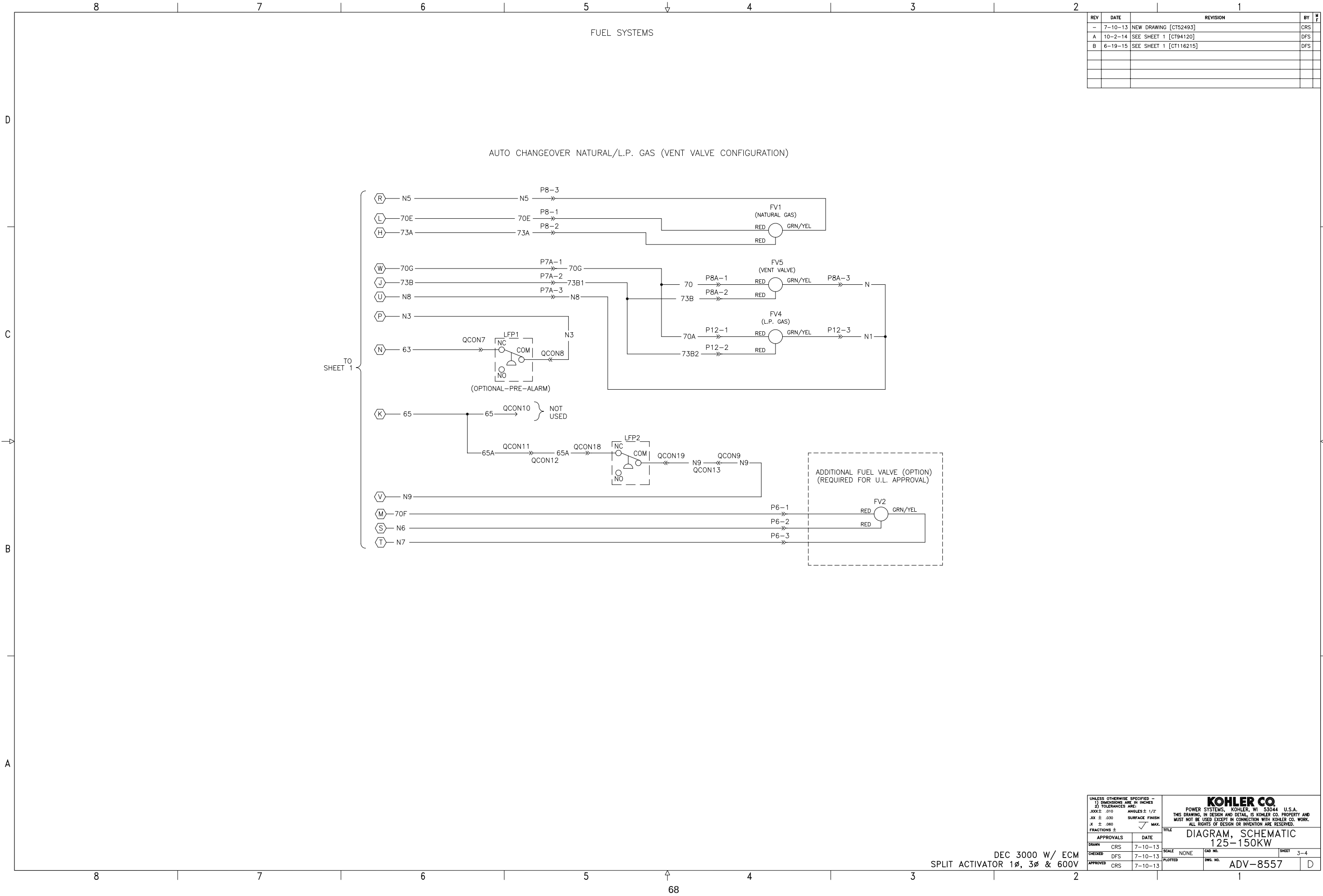
REV	DATE	REVISION	BY	CHK
-	7-10-13	NEW DRAWING [CT52493]	CRS	
A	10-2-14	(D-6,-7) OPTIONAL 10 AMP BATTERY CHARGER AND CORRESPONDING POINT TO POINT CONNECTIONS ADDED [CT94120]	DFS	
B	6-19-15	(D-6) N20 LEAD ADDED, WHT LEAD CONNECTED TO P50-9 [CT116215]	DFS	

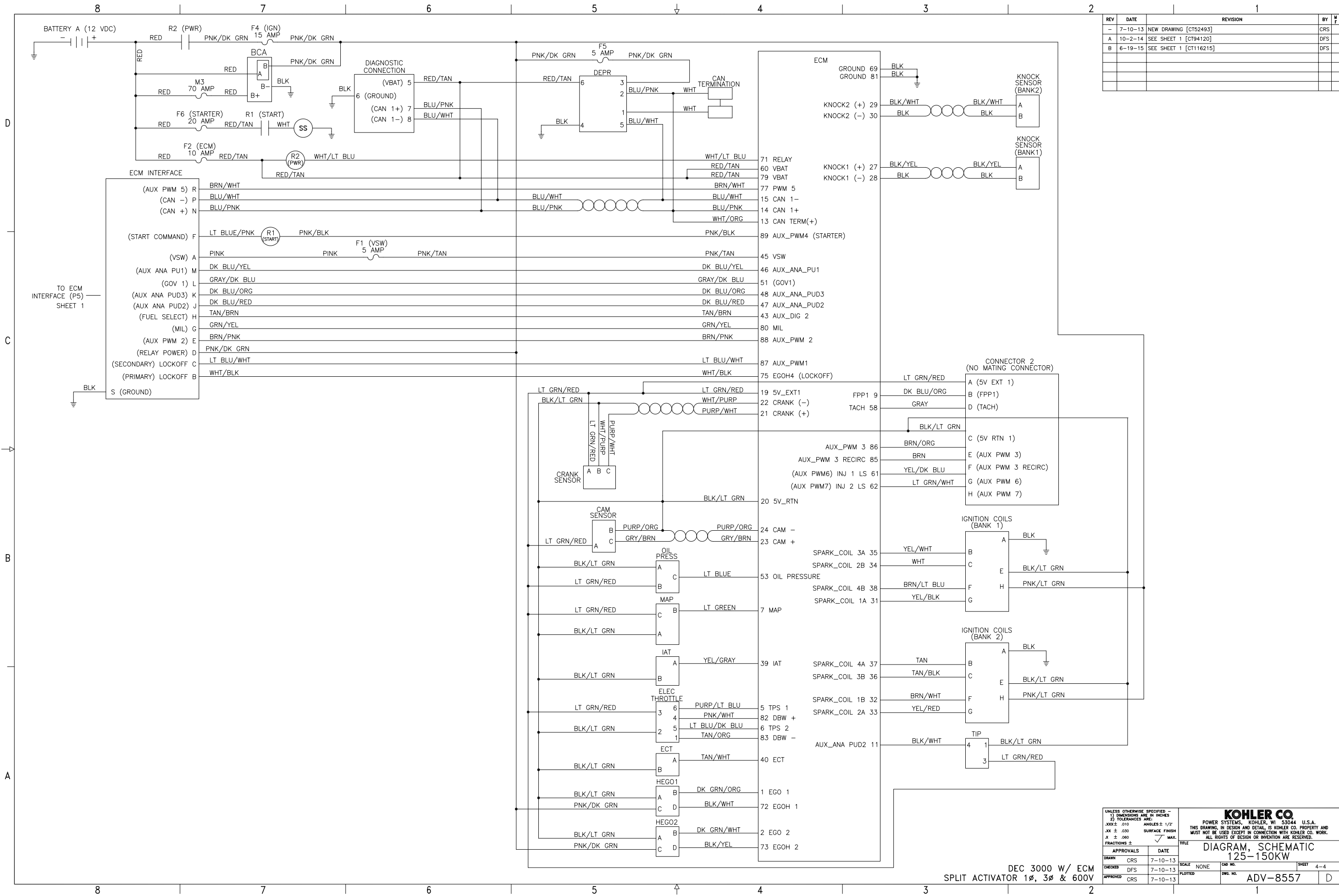
LEGEND

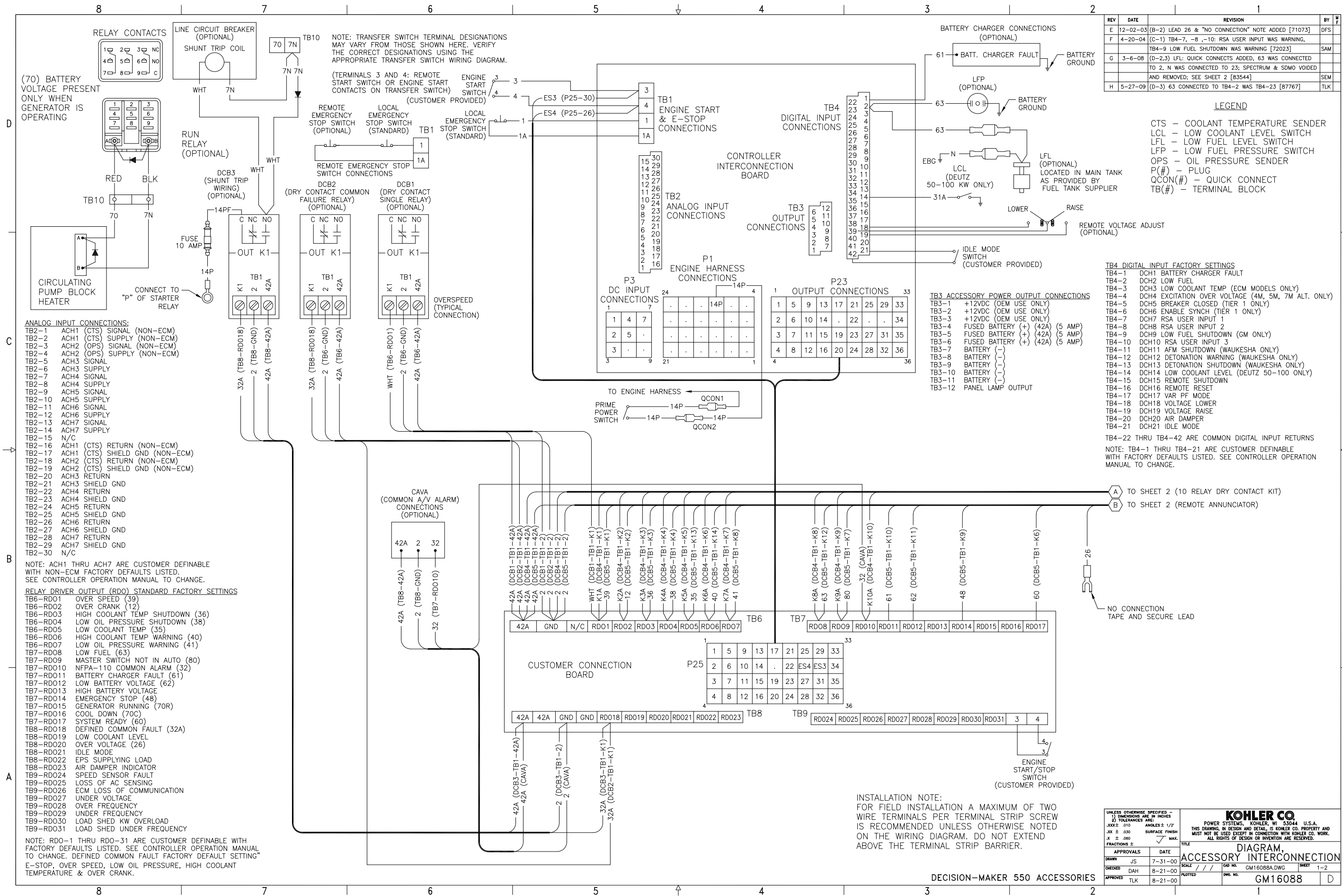
BCA - BATTERY CHARGING ALTERNATOR
CLS - COOLANT LEVEL SENDER
CT(##) - CURRENT TRANSFORMER
CWCS - CITY WATER COOLING SOLENOID
D(##) - DIODE
ECM - ELECTRONIC CONTROL MODULE (E-CONTROLS)
ESS - EMERGENCY STOP SWITCH
FV(##) - FUEL VALVE
INSUL(##) - INSULINK
K20 - CRANK RELAY
LCT - LOW COOLANT TEMPERTURE SWITCH
LFP(##) - LOW FUEL PRESSURE SWITCH
LP - LIQUID PROPANE
LFPs - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
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P(##) - PLUG
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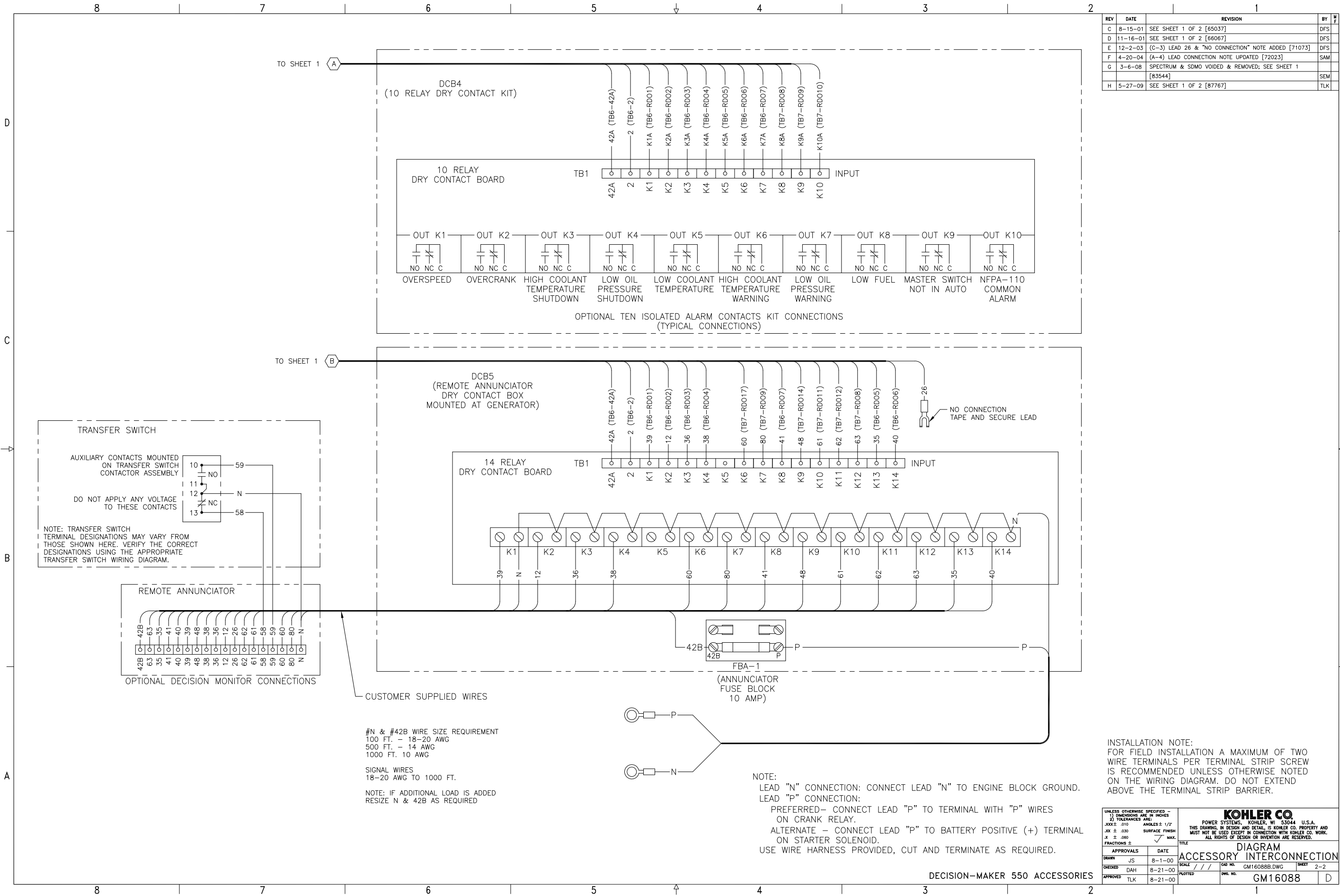
⏏ - ENGINE BLOCK GROUND

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN CRS		7-10-13	
CHECKED DFS		7-10-13	
APPROVED CRS		7-10-13	
TITLE		SCALE NONE	
DIAGRAM, SCHEMATIC		CADD NO.	
125-150KW		SHEET 1-4	
DWG. NO.		ADV-8557	









REV	DATE	REVISION	BY	W	F
C	11-30-05	(B-7) AVR (P5) VIEW CORRECTED [76420]	CRS		
D	6-29-06	(C-2) 'NON-ECM ONLY' NOTE ADDED [78676]	CRS		
E	9-25-06	(A-2) 'NON-DECISION MAKER' WAS 'DECISION-MAKER' [79376]	CRS		
F	4-25-08	(C,D-5,6) SSEN TYPE 3 ADDED; SDMO & SPECTRUM VOIDED AND REMOVED [84202]	SEM		
G	11-19-08	(A-3) PT CONNECTIONS (6 LEAD 600 VOLT) DETAIL ADDED			
		[86648]	CRS		

LEGEND

AVR — AUTOMATIC VOLTAGE REGULATOR
P(#) — PLUG
PMG — PERMANENT MAGNET GENERATOR
RRA — ROTATING RECTIFIER ASSEMBLY
SLB — STATIONARY LIGHT EMITTING DIODE BOARD
SSEN — SPEED SENSOR
STAT — STATOR

GENERATOR

TYPE 3 CONNECTIONS

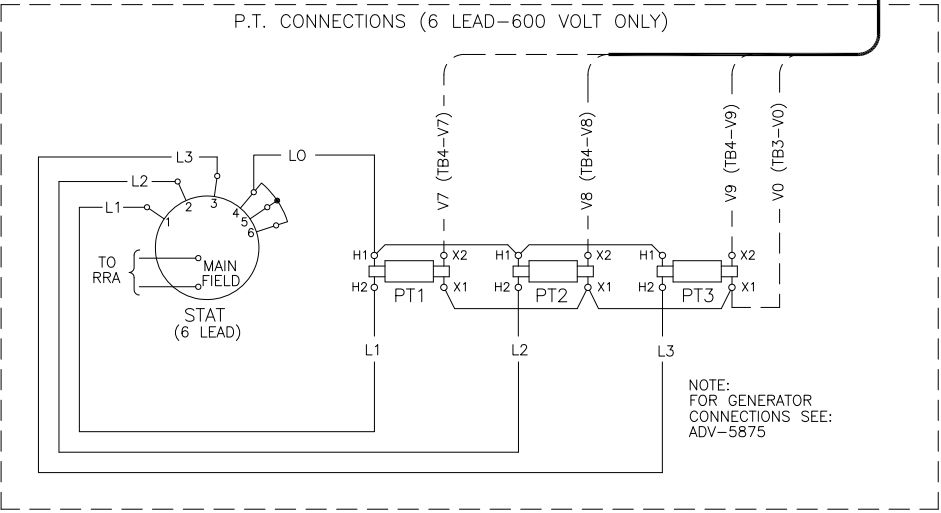
PIN #1	BLK	BLACK
2	RED	RED
3	WHT	WHITE
4	S2 (S6)	UNINSULATED

P5 CONNECTIONS

PIN #1	68	(QCON1)
2	7N	(TB11-7N)
3	67	(QCON2)
4	V8	(TB4-V8)
5	N/C	.
6	3B	(P6-2)
7	V9	(TB4-V9) (3Ø REG. ONLY)
8	N/C	.
9	5B	(P6-1)
10	V7	(TB4-V7)
11	1B	(SFG)
12	N/C	.

AVR			P5	
3	67	7N	68	1
	3B	.	V8	
	5B	.	V9	
12	.	1B	V7	10

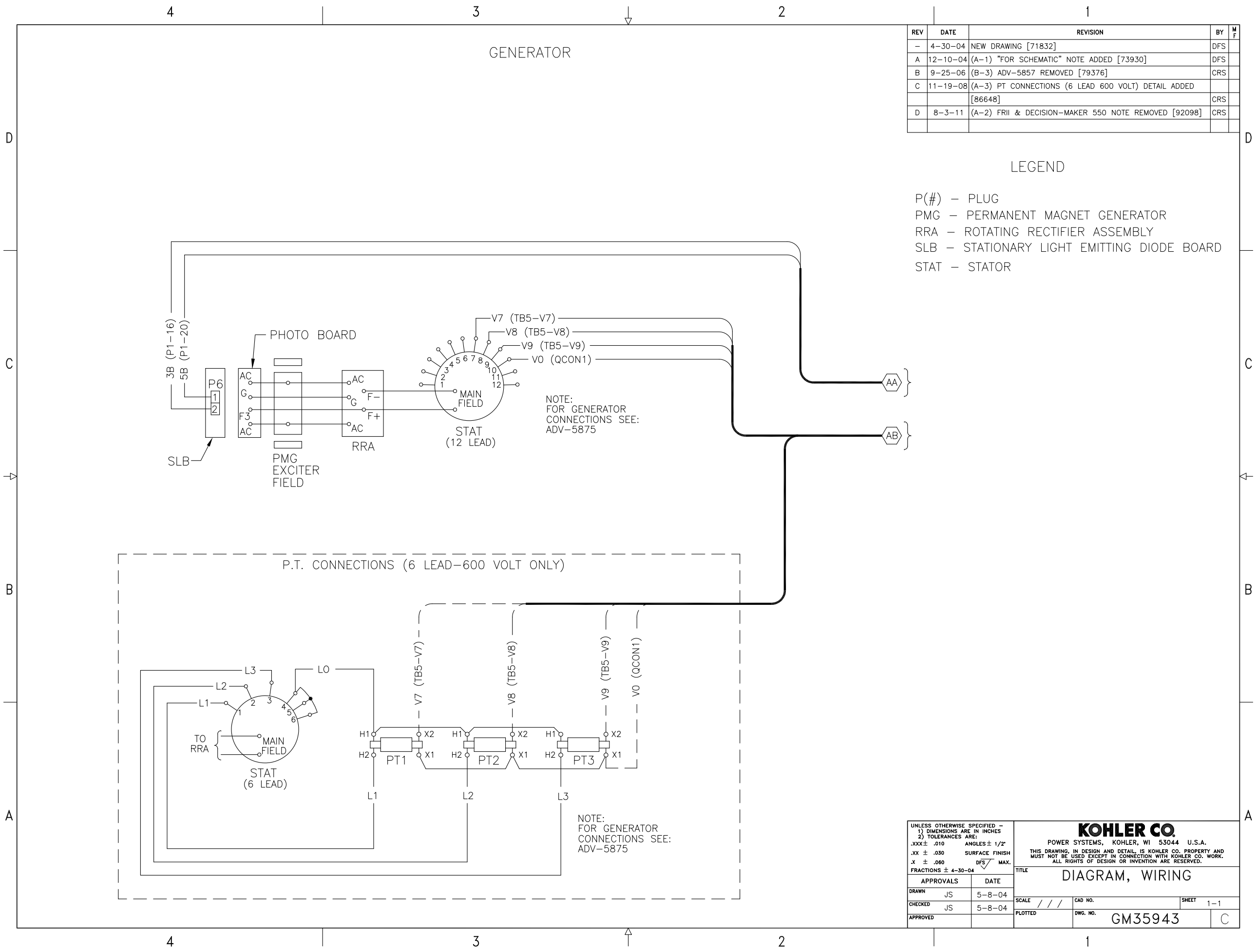
P.T. CONNECTIONS (6 LEAD-600 VOLT ONLY)

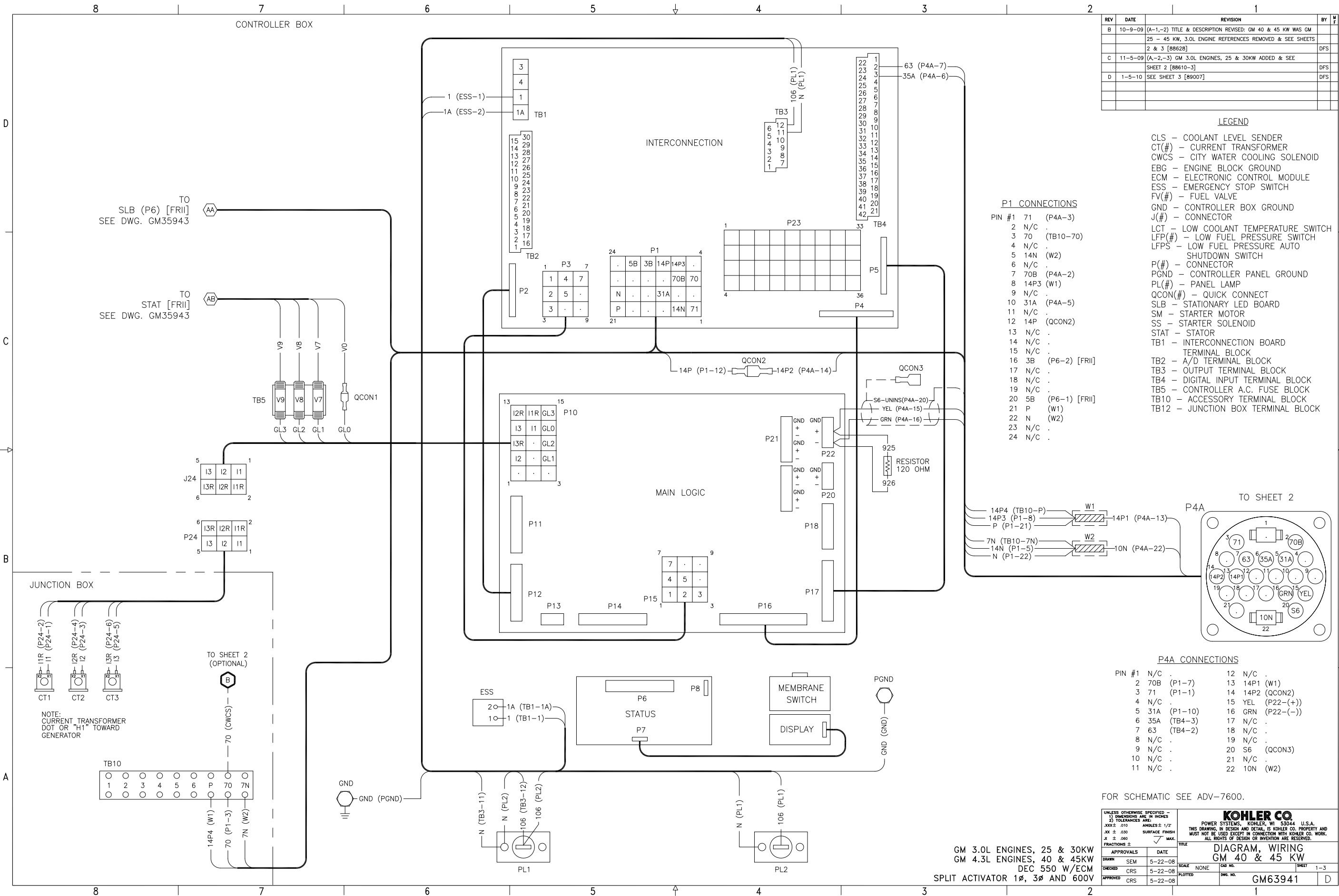


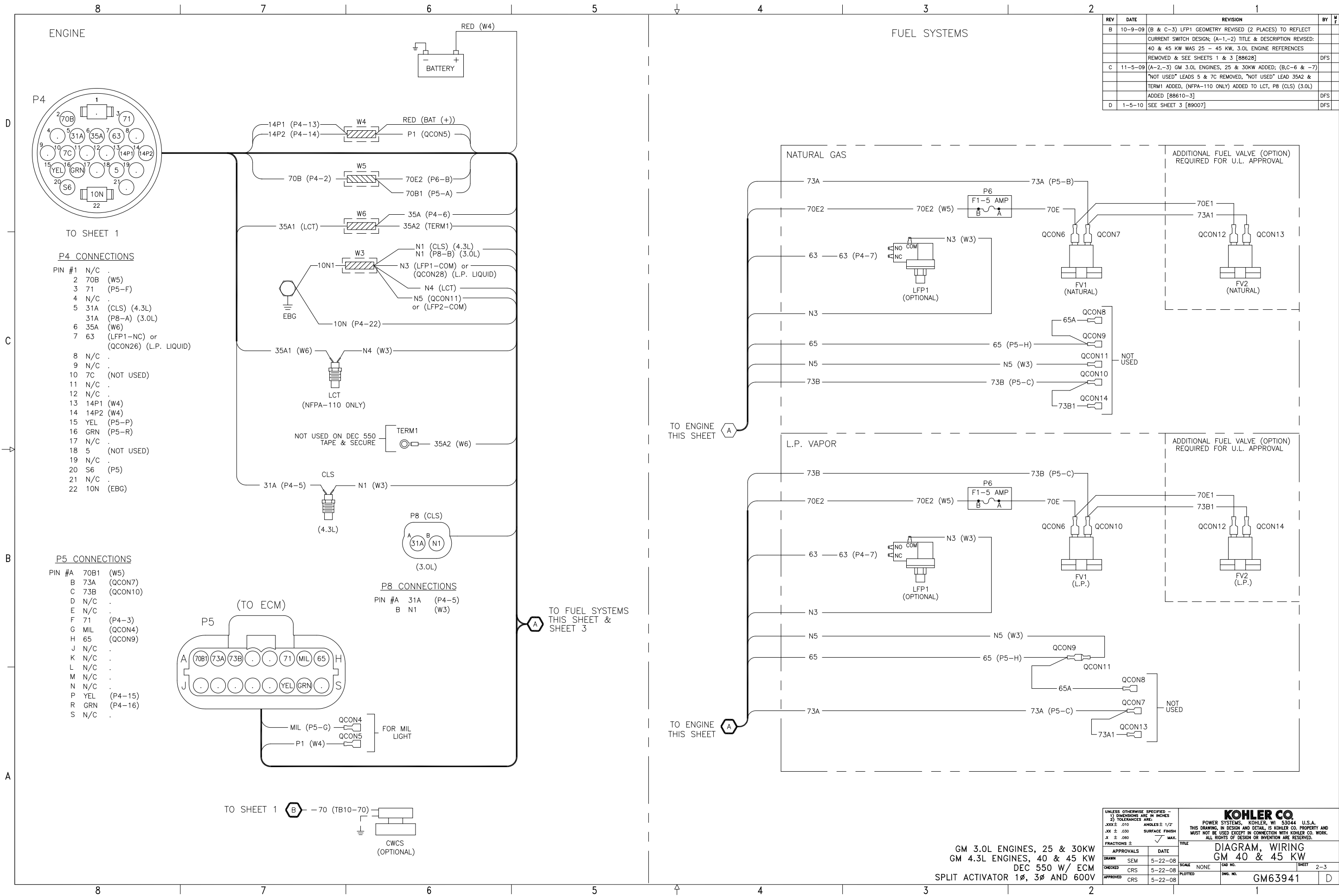
FOR SCHEMATIC SEE ADV-6955.

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° XX ± .030 SURFACE FINISH .X ± .060 FRACTIONS ±				KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
APPROVALS		DATE		TITLE DIAGRAM, WIRING			
DRAWN	DFS	4-30-04		SCALE	///	CAD NO.	SHEET 1-1
CHECKED	JS	5-6-04		PLOTTED		DWG. NO.	GM35941
APPROVED	JS	5-6-04					D

NON-DECISION MAKER 550 CONTROLLER







UNLESS OTHERWISE SPECIFIED -
1) DIMENSIONS ARE IN INCHES
2) TOLERANCES ARE:
XXX ± .010 ANGLES ± 1/2°
XX ± .030 SURFACE FINISH
X ± .060 MAX.
FRACTIONS ±
APPROVALS DATE
DRAWN SEM 5-22-08
CHECKED CRS 5-22-08
APPROVED CRS 5-22-08
SCALE NONE
PLOTTED
DWR. NO. GM63941
SHEET 2-3
D

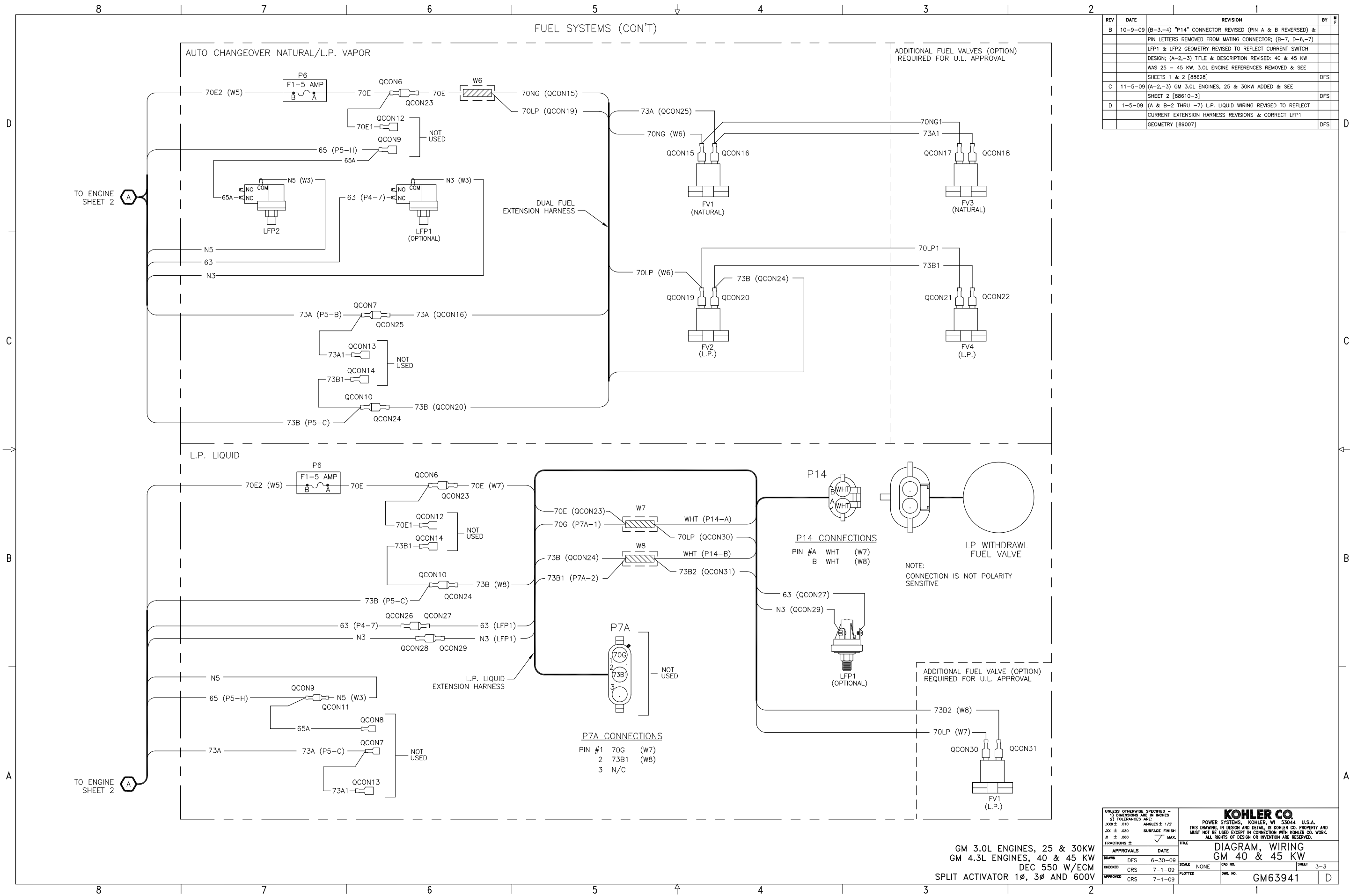
GM 3.0L ENGINES, 25 & 30KW
GM 4.3L ENGINES, 40 & 45 KW
DEC 550 W/ ECM
SPLIT ACTIVATOR 1Ø, 3Ø AND 600V

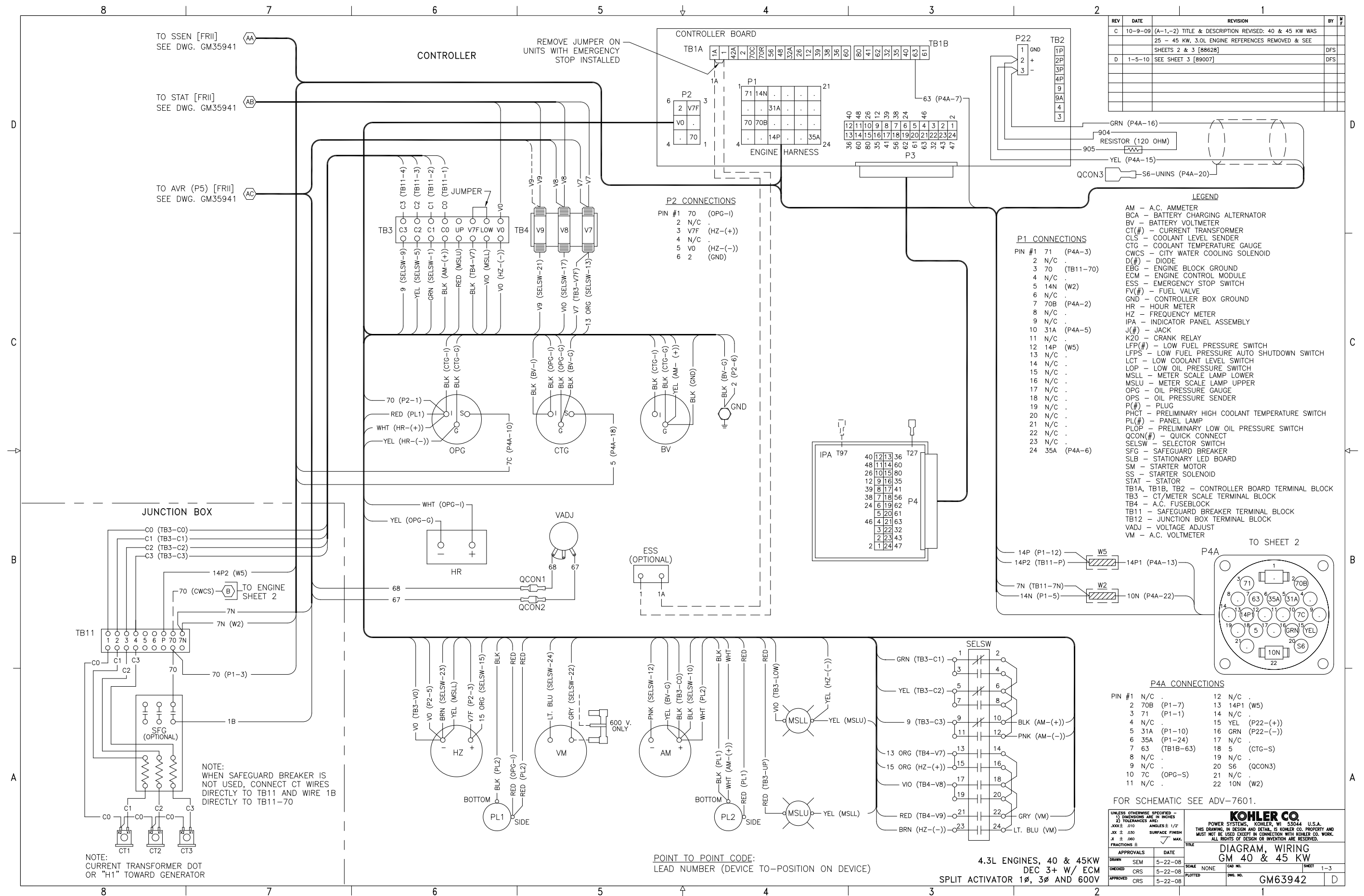
COHLER CO.

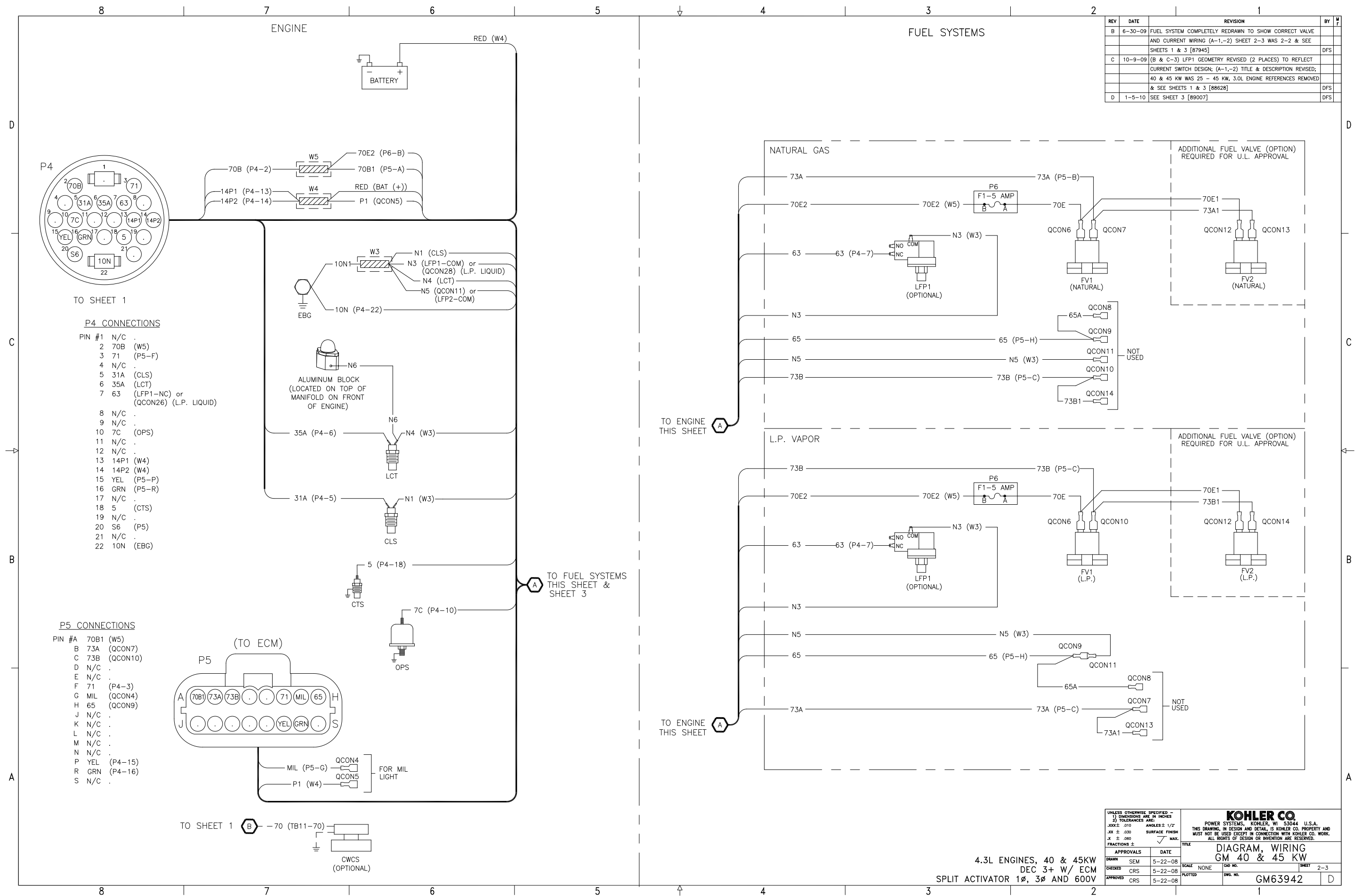
POWER SYSTEMS, KOHLER, WI 53044 U.S.A.
THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND
MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK.
ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

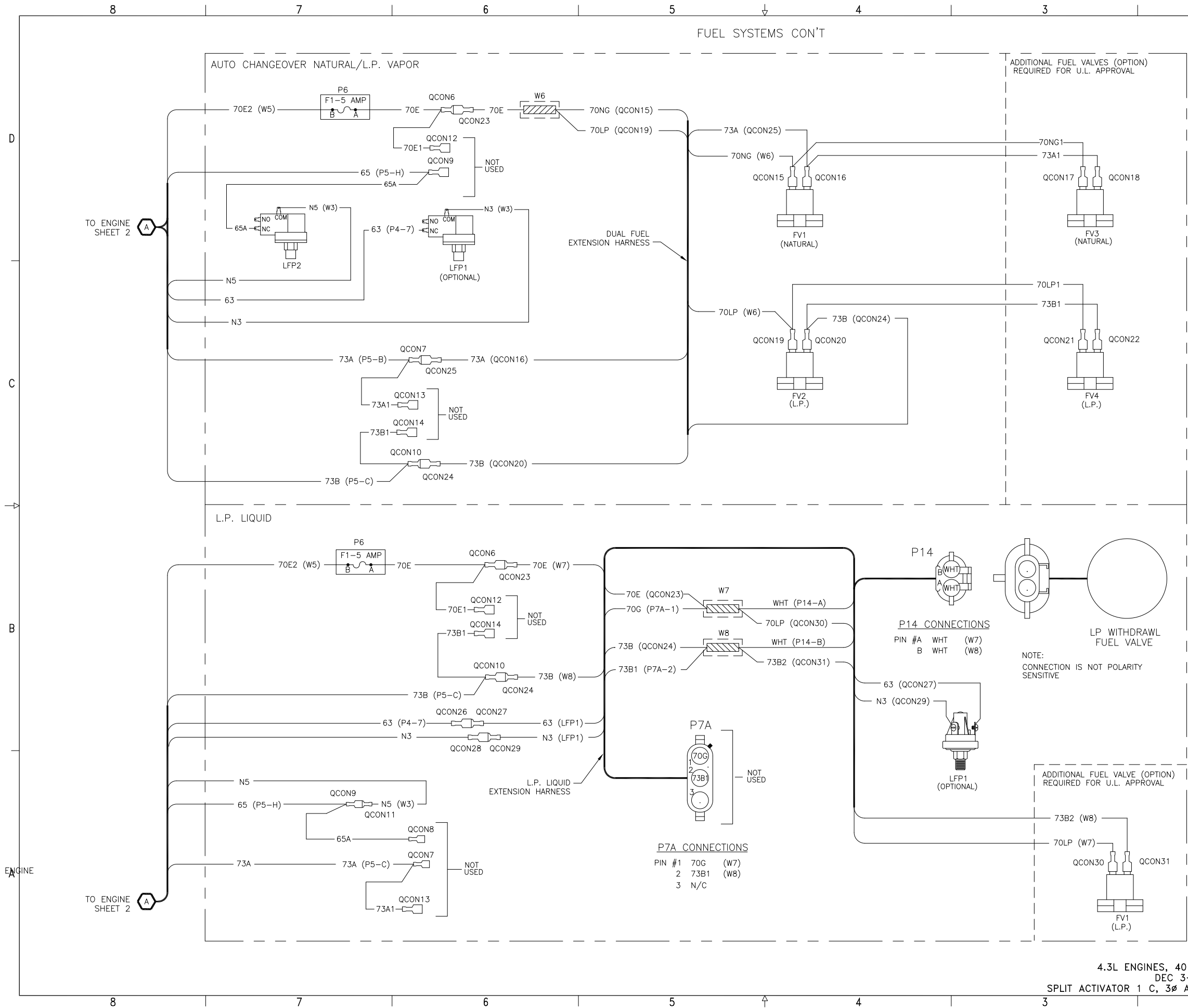
TITLE

DIAGRAM, WIRING
GM 40 & 45 KW





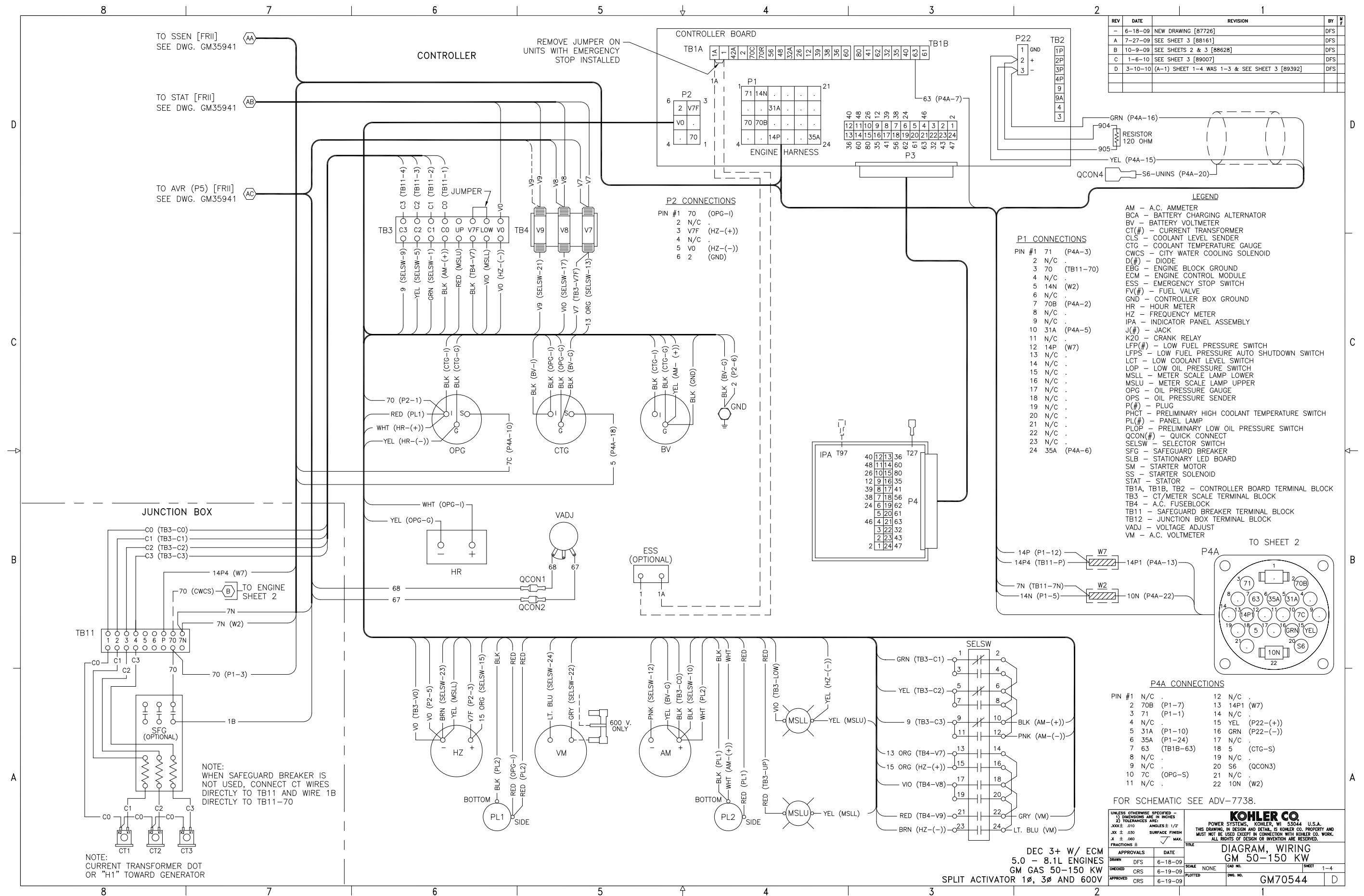


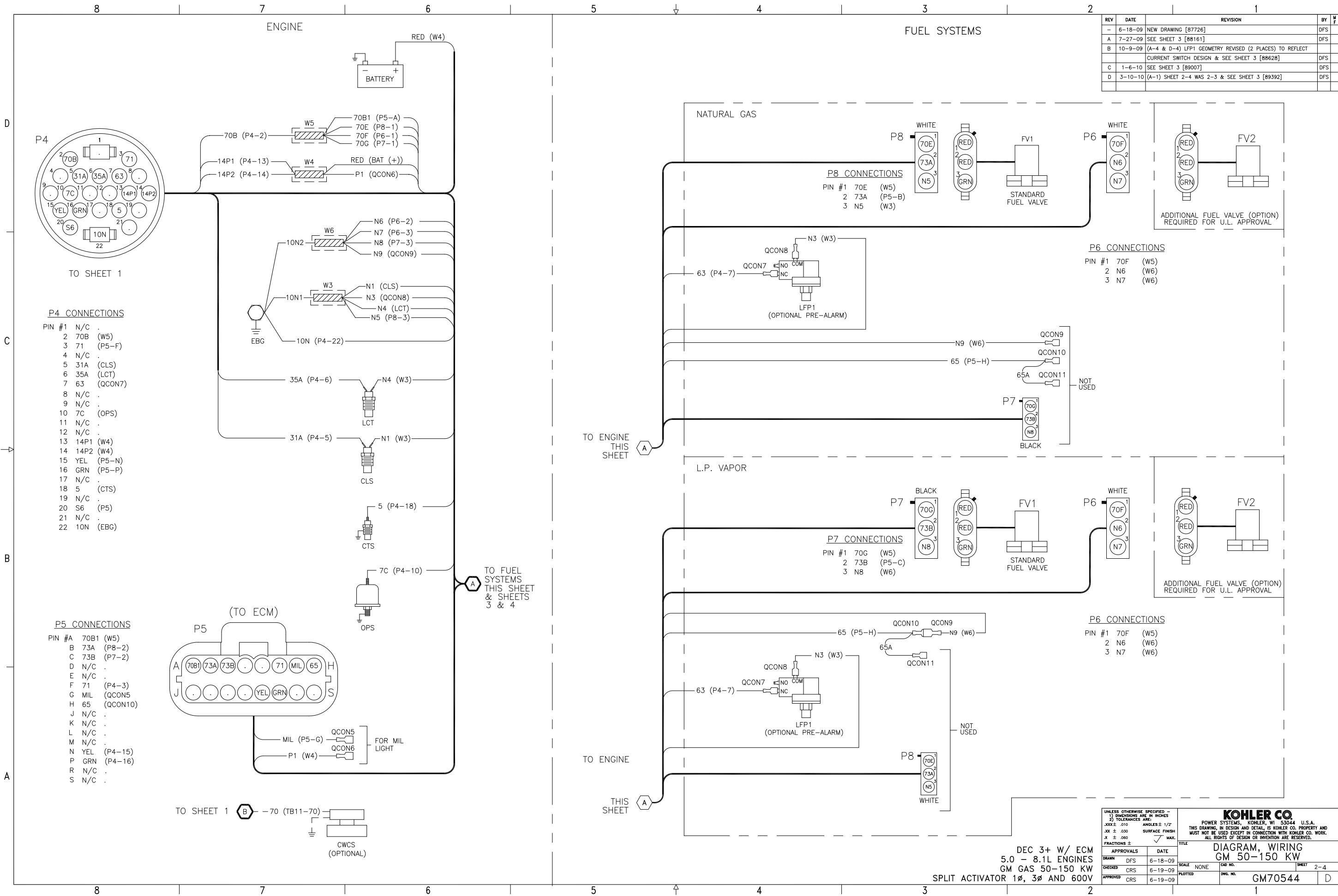


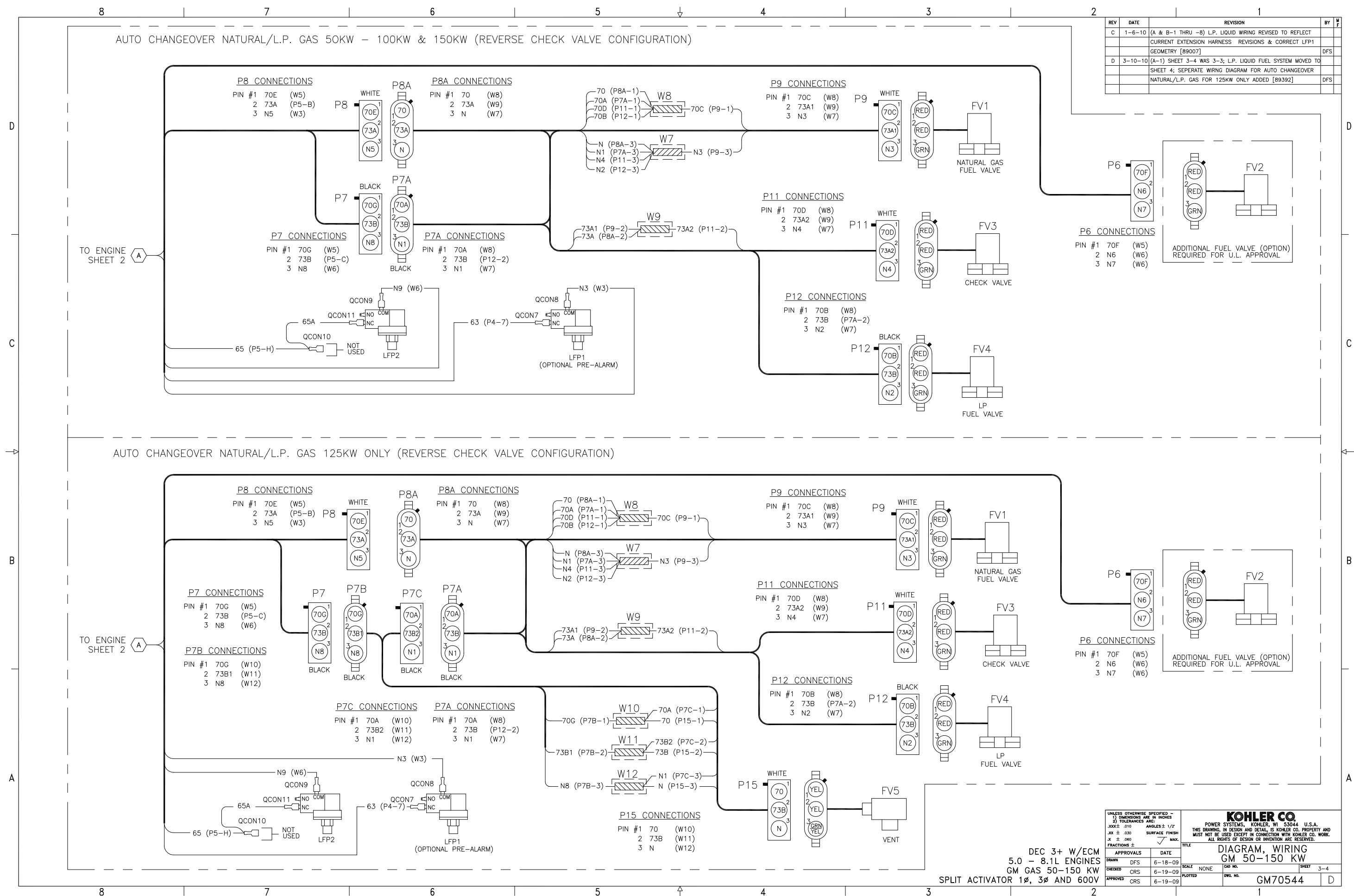
REV	DATE	REVISION	BY	W	F
B	6-30-09	(A-1) THIS SHEET ADDED; FUEL SYSTEMS COMPLETELY REDRAWN TO SHOW CORRECT VALVE & CURRENT WIRING & SEE SHEETS 1 & 2 [87945]			
C	10-90-09	(B-3,-4) "P14" CONNECTOR REVISED (PINS A & B REVERSED) & PIN LETTERING REMOVED FROM MATING CONNECTOR; (B-7 & D-6,-7) LFP1 & LFP2 GEOMETRY REVISED (3 PLACES) TO REFLECT CURRENT SWITCH DESIGN; (A-1,-2) TITLE & DESCRIPTION REVISED: 40 & 45 KW WAS 25 - 45 KW, 3.0L ENGINE REFERENCE REMOVED & SEE SHEETS 2 & 3 [88628]			
D	1-5-10	(A & B-2 THRU -7) L.P. LIQUID WIRING REVISED TO REFLECT CURRENT EXTENSION HARNESS REVISIONS & CORRECT LFP1 GEOMETRY [89007]			

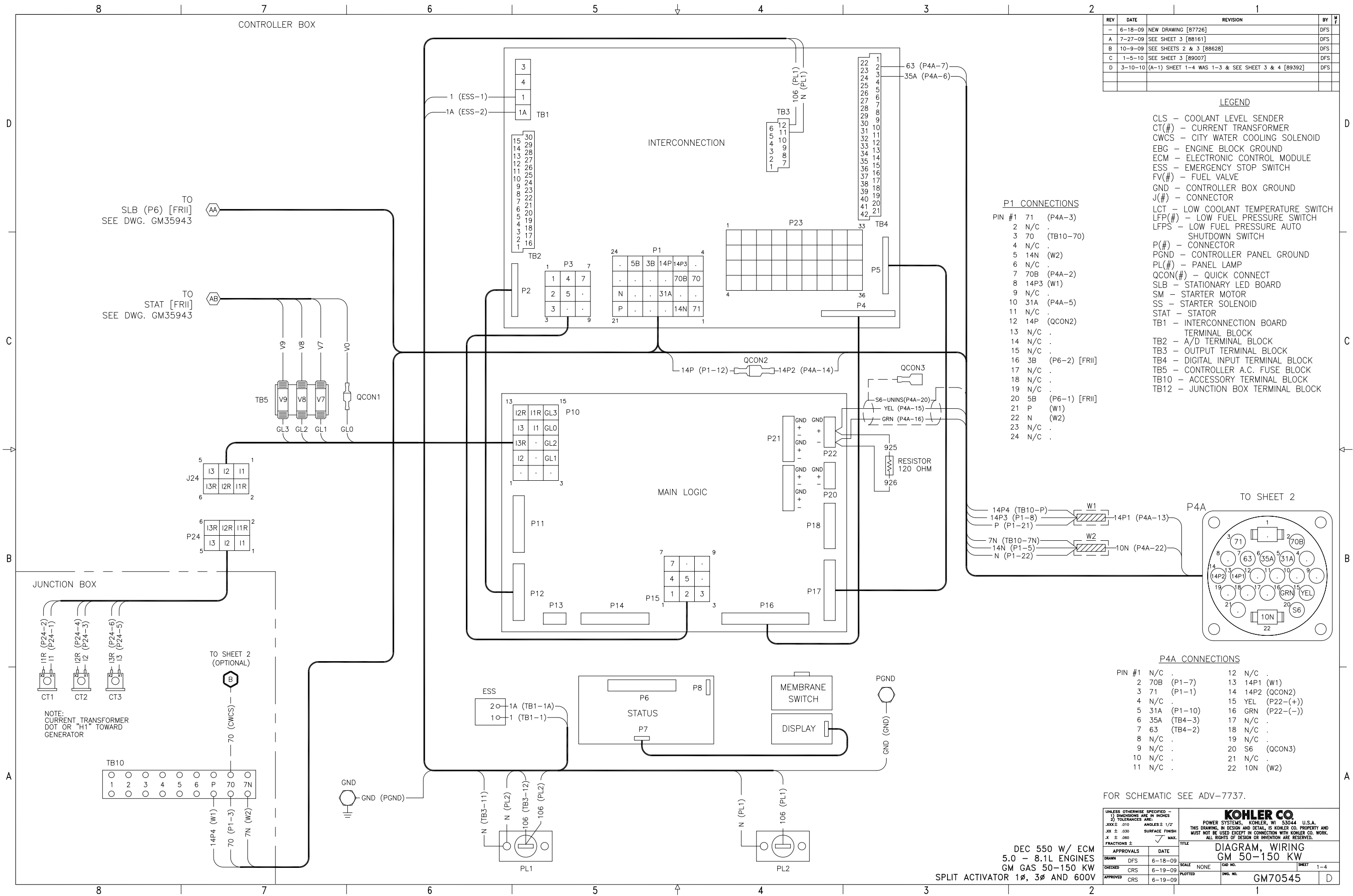
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±				KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
APPROVALS	DATE	TITLE	SCALE	CAD NO.	SHEET	3-3	
DRAWN	DFS	6-30-09	NONE				
CHECKED	CRS	7-1-09					
APPROVED	CRS	7-1-09					
				DWG. NO.	GM63942	D	

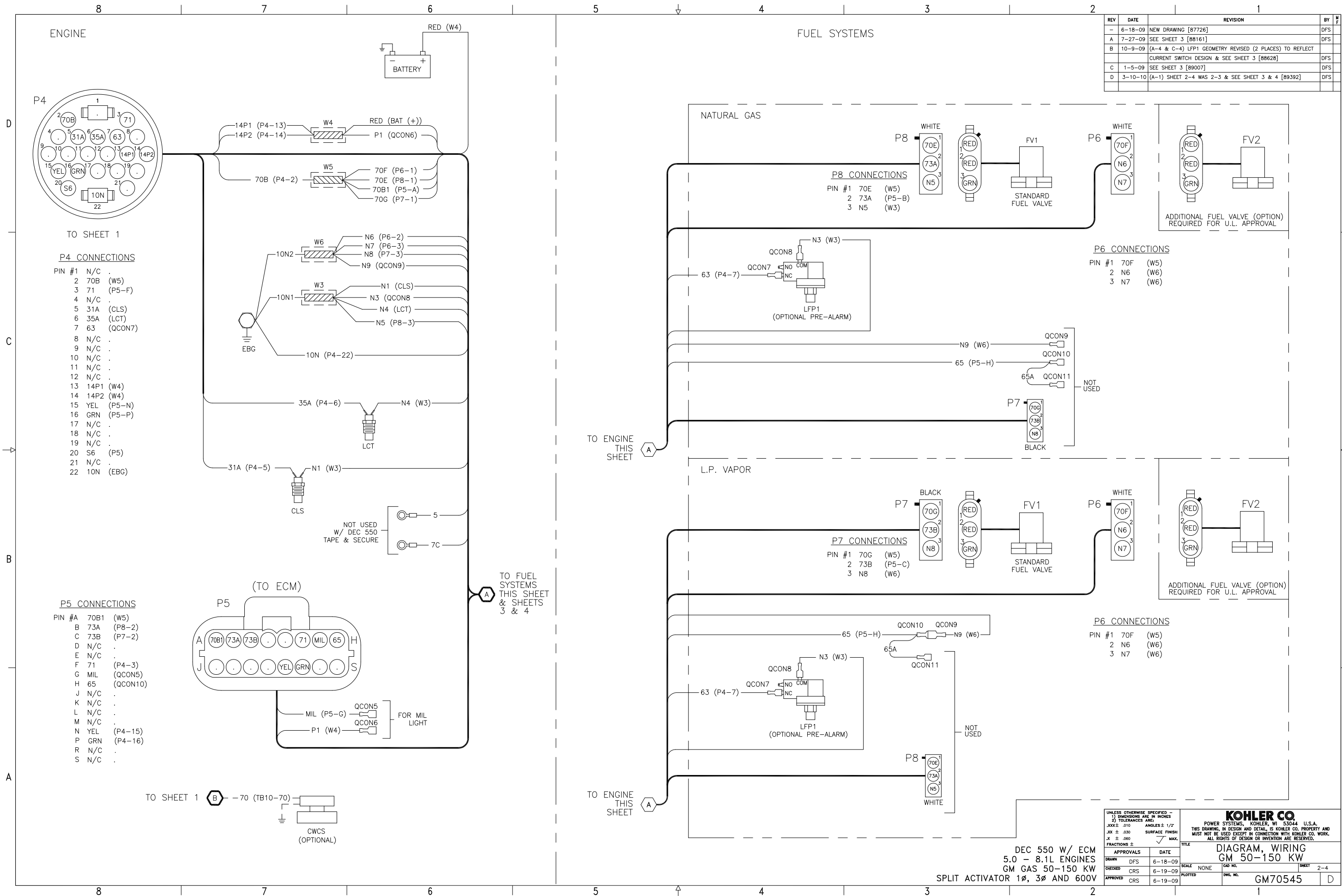
4.3L ENGINES, 40 & 45KW
DEC 3+ W/ECM
SPLIT ACTIVATOR 1 C, 3Ø AND 600V











REV	DATE	REVISION	BY	W	F
—	6-18-09	NEW DRAWING [87726]	DFS		
A	7-27-09	SEE SHEET 3 [88161]	DFS		
B	10-9-09	(A-4 & C-4) LFP1 GEOMETRY REVISED (2 PLACES) TO REFLECT			
		CURRENT SWITCH DESIGN & SEE SHEET 3 [88628]	DFS		
C	1-5-09	SEE SHEET 3 [89007]	DFS		
D	3-10-10	(A-1) SHEET 2-4 WAS 2-3 & SEE SHEET 3 & 4 [89392]	DFS		

P6 CONNECTIONS		
PIN #1	70F	(W5)
2	N6	(W6)
3	N7	(W6)

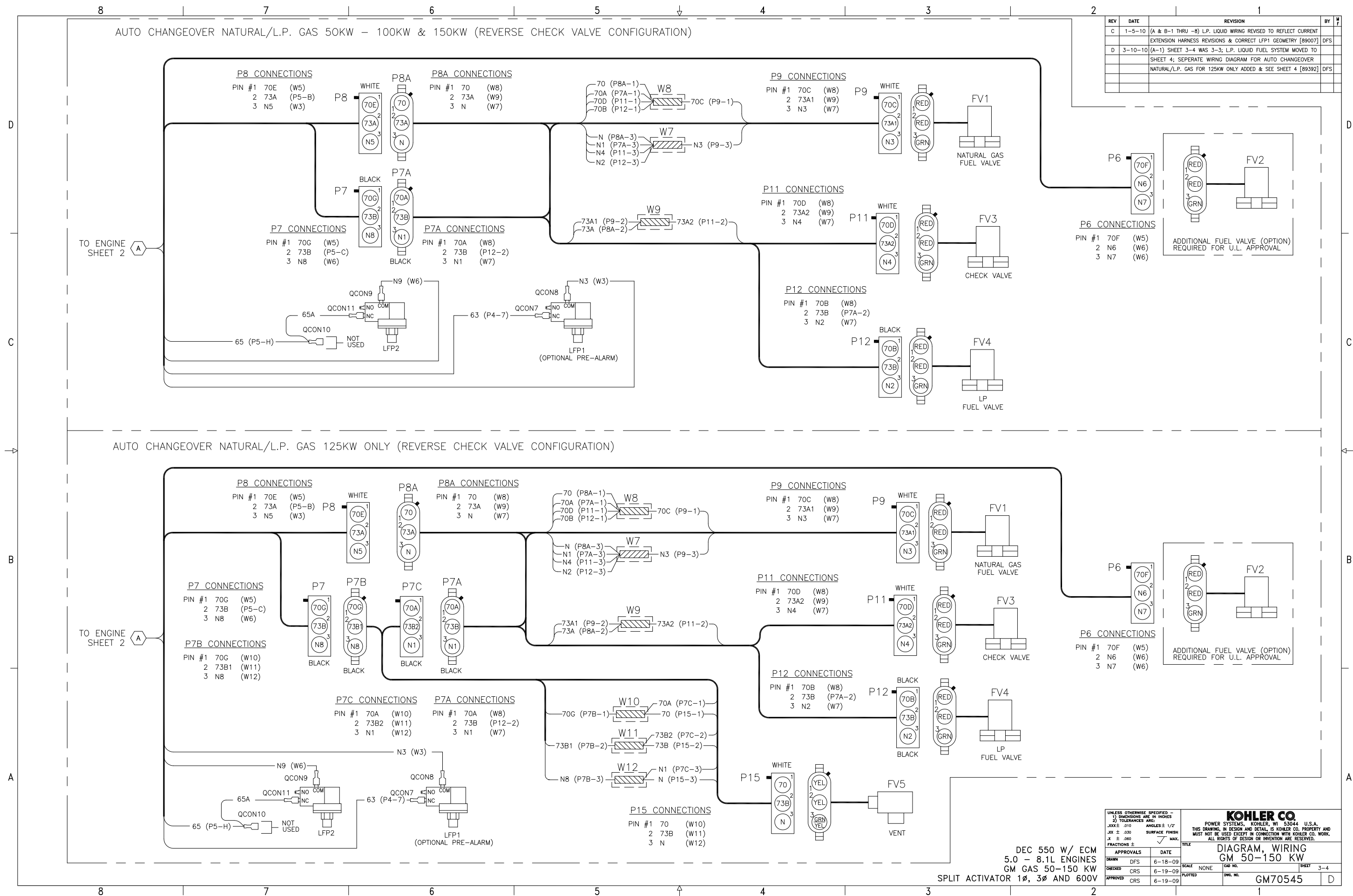
P8 CONNECTIONS		
PIN #1	70E	(W5)
2	73A	(P5-B)
3	N5	(W3)

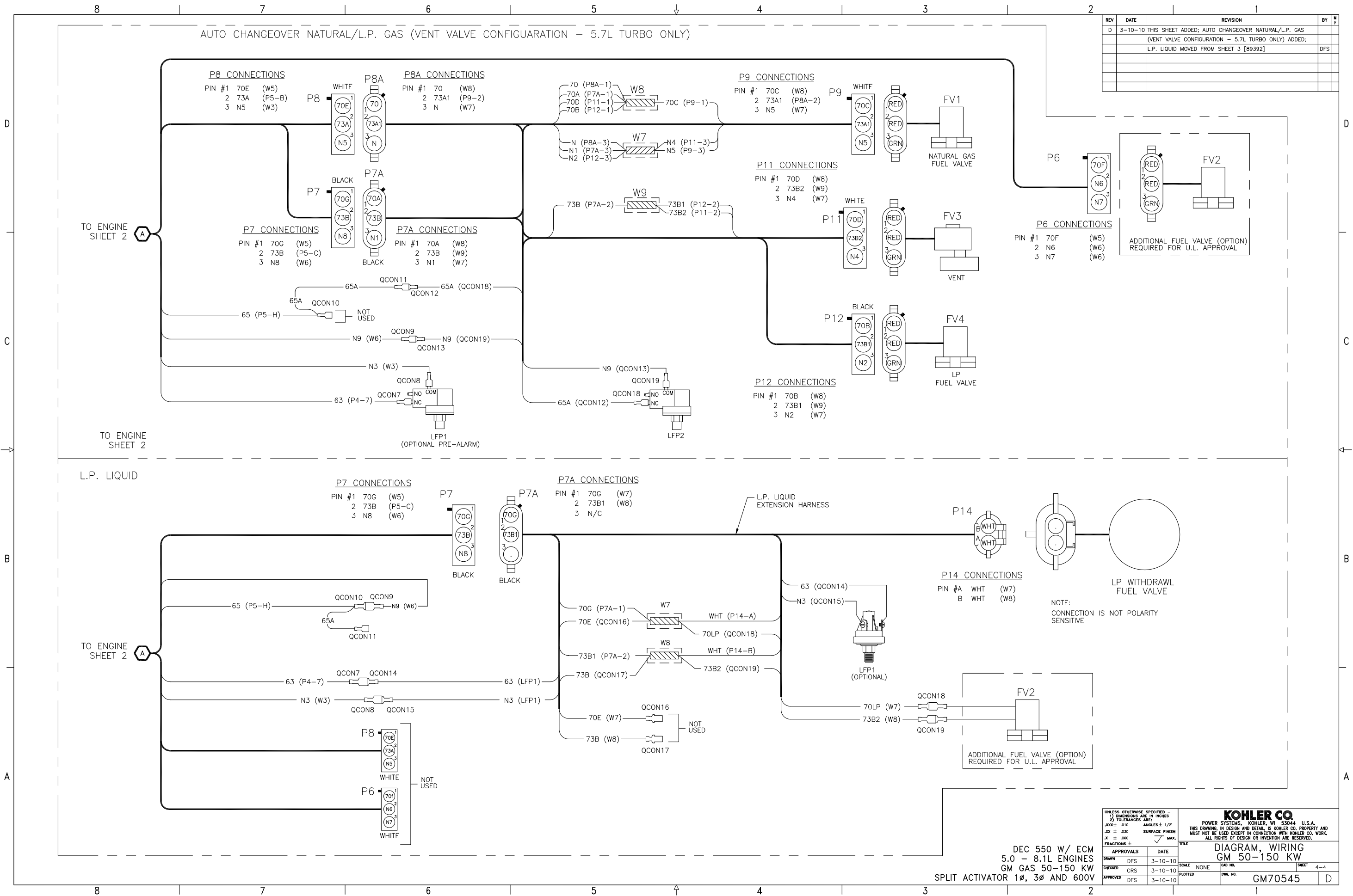
P7 CONNECTIONS		
PIN #1	70G	(W5)
2	73B	(P5-C)
3	N8	(W6)

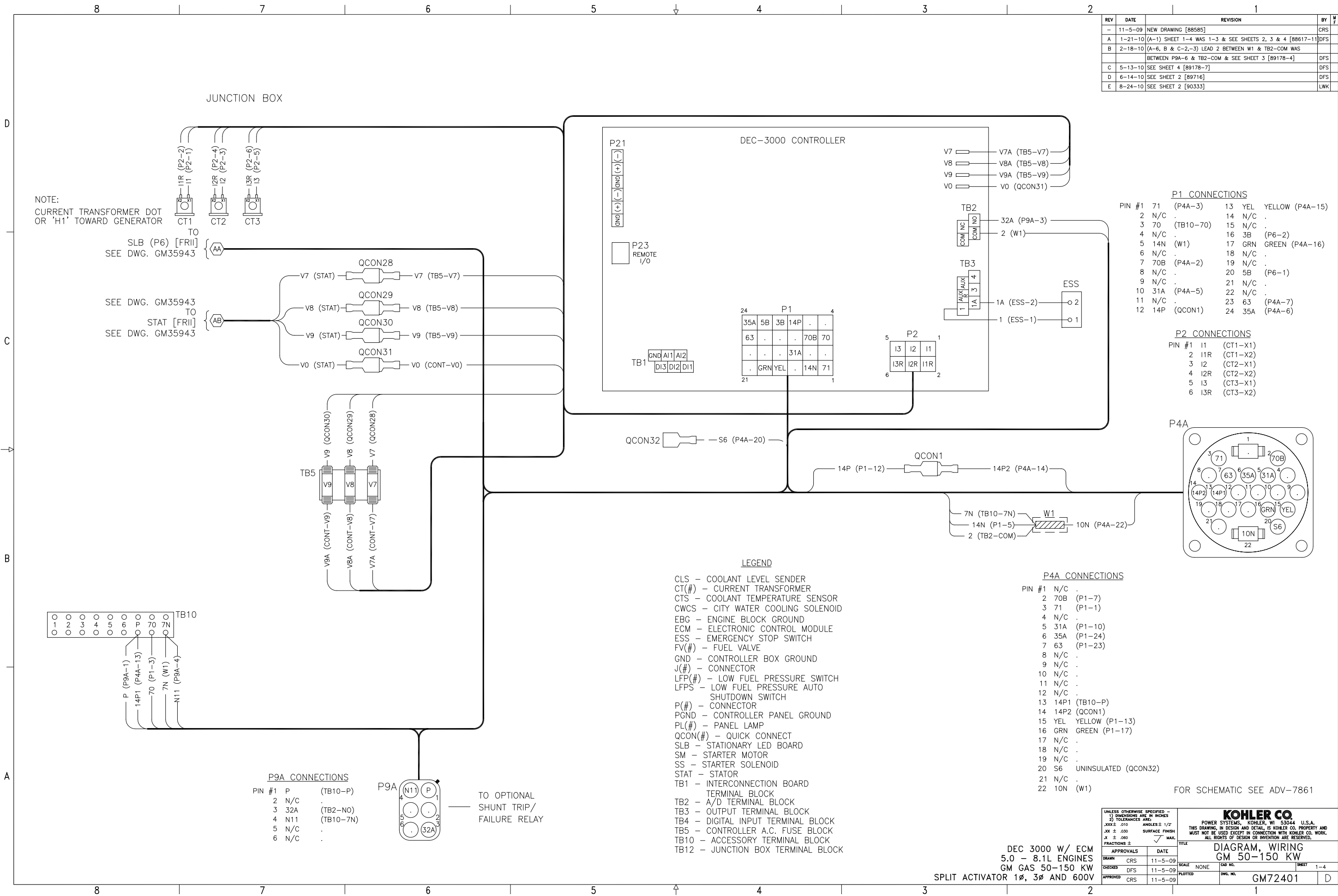
P6 CONNECTIONS		
PIN #1	70F	(W5)
2	N6	(W6)
3	N7	(W6)

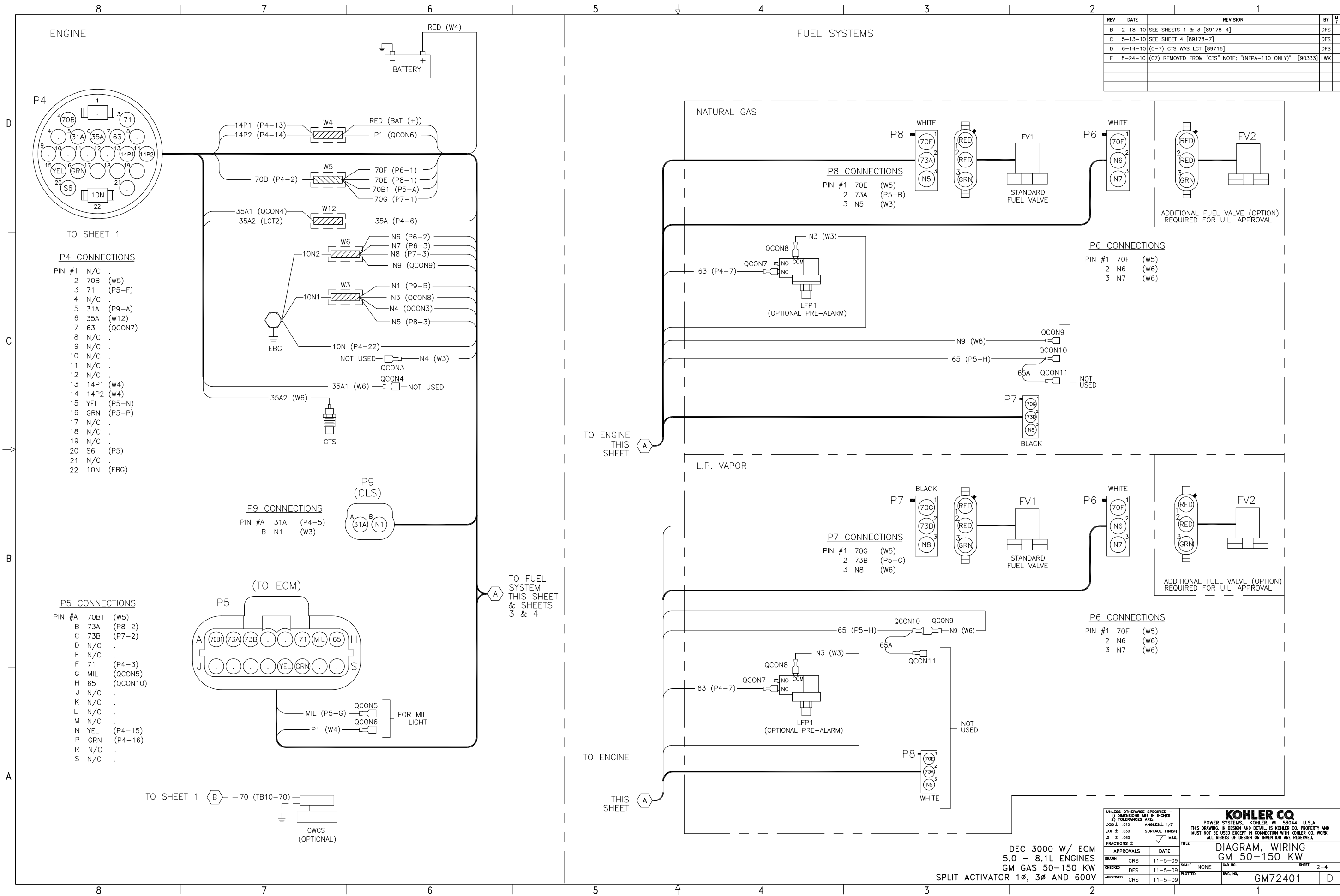
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±		KOHLER CO POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.							
		APPROVALS		DATE					
		TITLE							
		DIAGRAM, WIRING							
DRAWN	DFS	6-18-09	SCALE		NONE	CAD NO.	SHEET		2-4
CHECKED	CRS	6-19-09	PLOTTED			DWG. NO.	GM70545		D

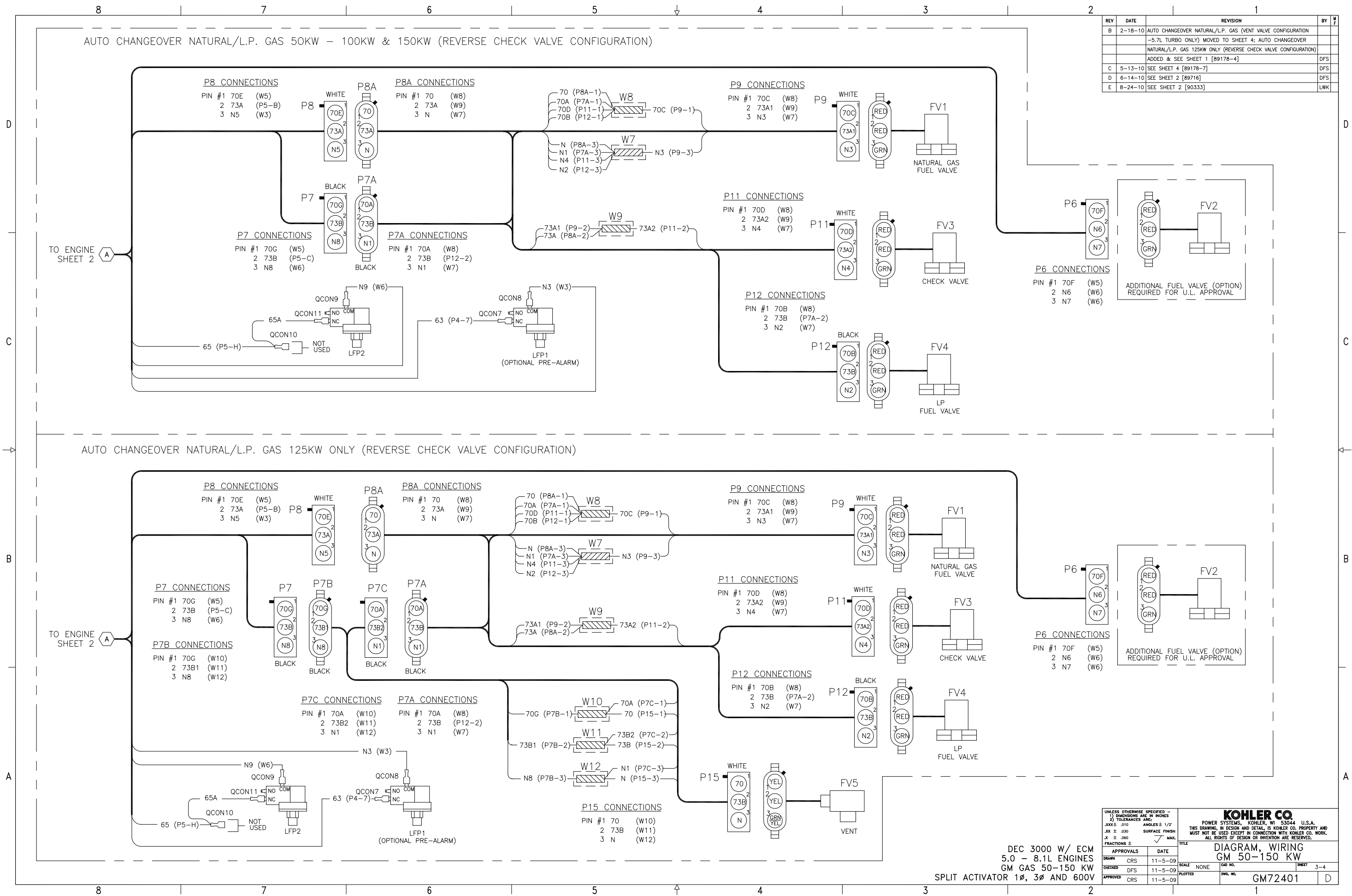
DEC 550 W/ ECM
5.0 - 8.1L ENGINES
GM GAS 50-150 KW
SPLIT ACTIVATOR 1Ø, 3Ø AND 600V



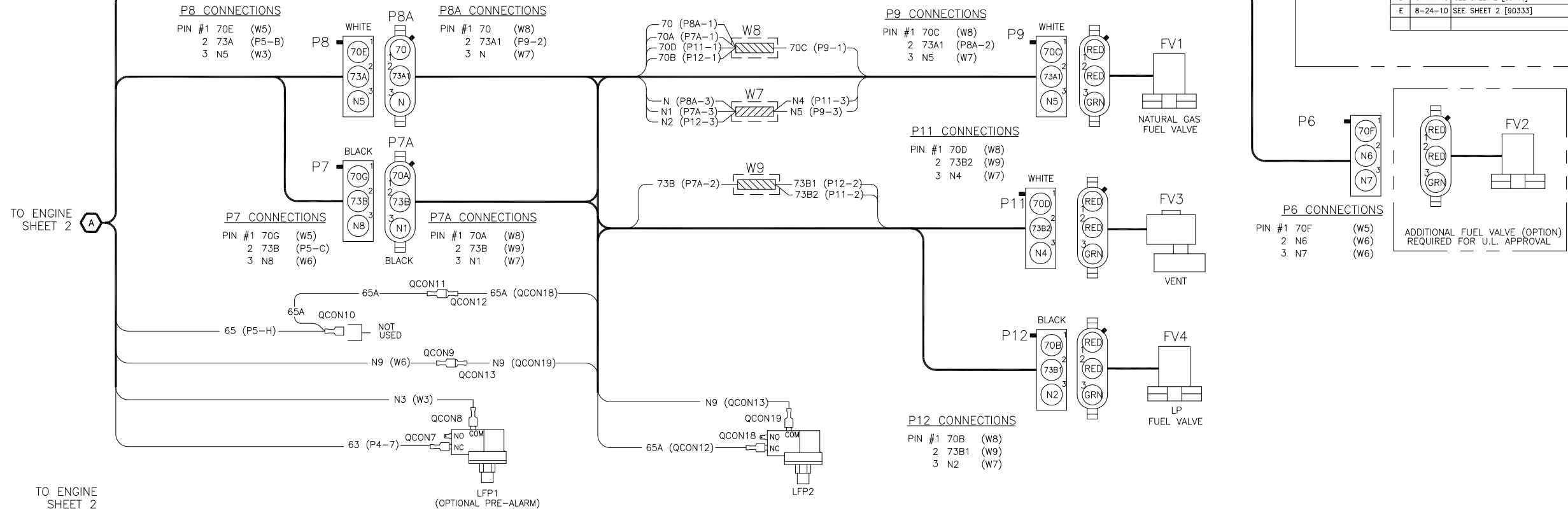




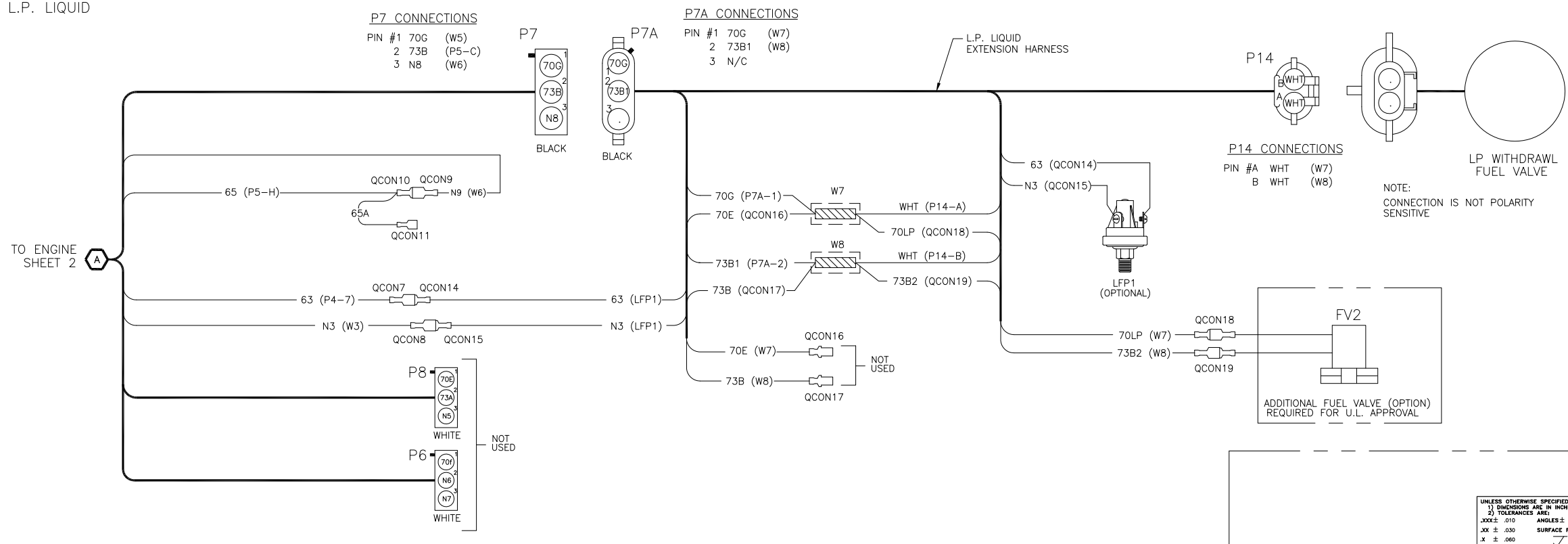




AUTO CHANGEOVER NATURAL/L.P. GAS (VENT VALVE CONFIGURATION – 5.7L TURBO ONLY)

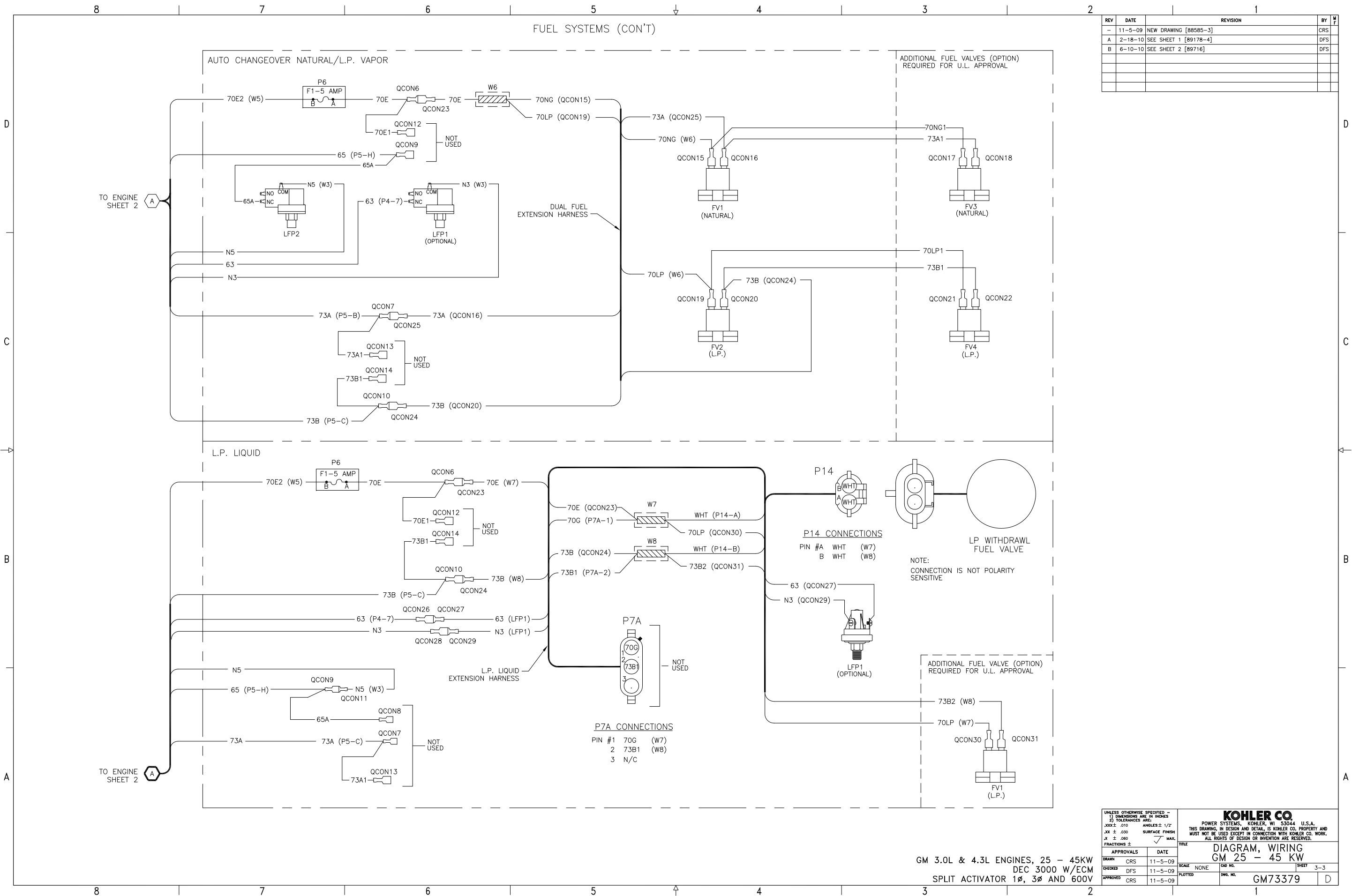


REV	DATE	REVISION	BY	W
B	2-18-10	AUTO CHANGEOVER NATURAL/L.P. GAS (VENT VALVE CONFIGURATION – 5.7L TURBO ONLY) ADDED TO THIS SHEET & SEE SHEETS 1 & 3 [89392]	DFS	
C	5-13-10	(C-6) LFP1 RELOCATED FROM DUAL FUEL HARNESS CONNECTIONS TO ENGINE HARNESS CONNECTIONS [89178-7]	DFS	
D	6-14-10	SEE SHEET 2 [89716]	DFS	
E	8-24-10	SEE SHEET 2 [90333]	LWK	



UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 FRACTIONS ± MAX.				KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
APPROVALS		DATE		TITLE		SCALE	
DRAWN DFS		1-21-10		DIAGRAM, WIRING GM 50-150 KW		SHEET 4-4	
CHECKED CRS		1-21-10		DWG. NO. GM72401		PLOTTED	
APPROVED DFS		1-21-10					

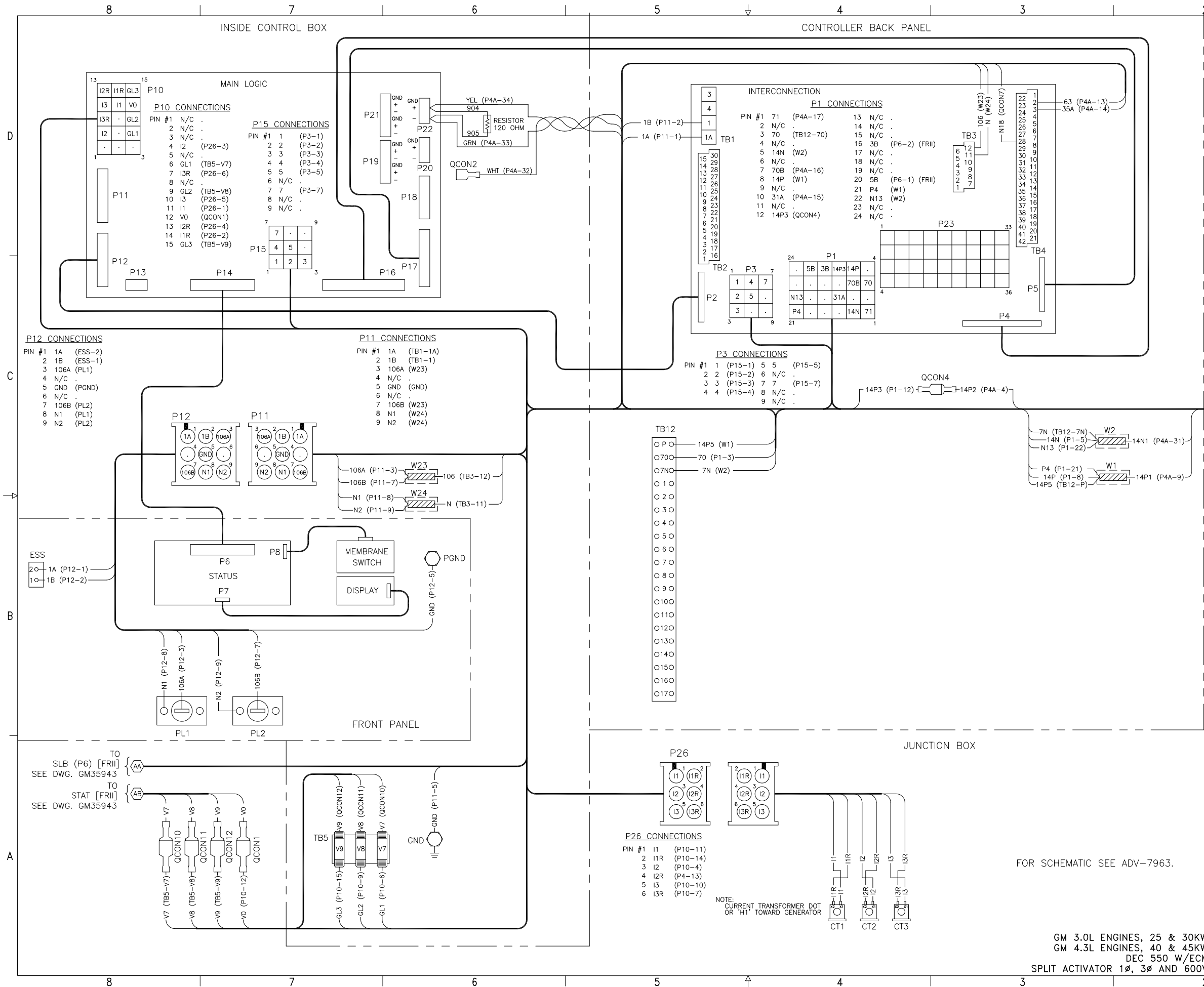
DEC 3000 W/ECM
5.0 – 8.1L ENGINES
GM GAS 50-150 KW
SPLIT ACTIVATOR 1Ø, 3Ø AND 600V



REV	DATE	REVISION	BY	W
-	11-5-09	NEW DRAWING [88585-3]	CRS	F
A	2-18-10	SEE SHEET 1 [89178-4]	DFS	
B	6-10-10	SEE SHEET 2 [89716]	DFS	

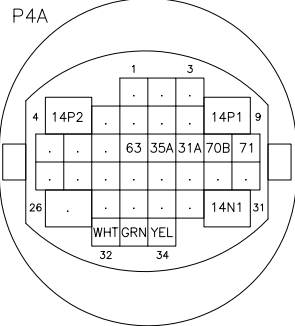
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .000± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 MAX. FRACTIONS ±				KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
APPROVALS		DATE		TITLE DIAGRAM, WIRING GM 25 - 45 KW			
DRAWN	CRS	11-5-09		SCALE	NONE	CAD NO.	
CHECKED	DFS	11-5-09		SHEET	3-3		
APPROVED	CRS	11-5-09		PLOTTED		DWG. NO.	GM73379

GM 3.0L & 4.3L ENGINES, 25 - 45KW
DEC 3000 W/ECM
SPLIT ACTIVATOR 1Ø, 3Ø AND 600V



REV	DATE	REVISION	BY	W
-	8-23-10	NEW DRAWING [89970-4]	CRS	
A	1-3-12	SEE SHEET 2 [92717]	CRS	
B	9-11-14	SEE SHEET 2 [CT89609]	DFS	
C	6-17-15	SEE SHEET 2 [CT116215]	DFS	

P4A CONNECTIONS			
PIN #1	N/C	18	N/C
2	N/C	19	N/C
3	N/C	20	N/C
4	14P2 (QCON4)	21	N/C
5	N/C	22	N/C
6	N/C	23	N/C
7	N/C	24	N/C
8	N/C	25	N/C
9	14P1 (W1)	26	N/C
10	N/C	27	N/C
11	N/C	28	N/C
12	N/C	29	N/C
13	63 (TB4-2)	30	N/C
14	35A (TB4-3)	31	14N1 (W2)
15	31A (P1-10)	32	WHT (QCON2)
16	70B (P1-7)	33	GRN (P22-(-))
17	71 (P1-1)	34	YEL (P22-(+))

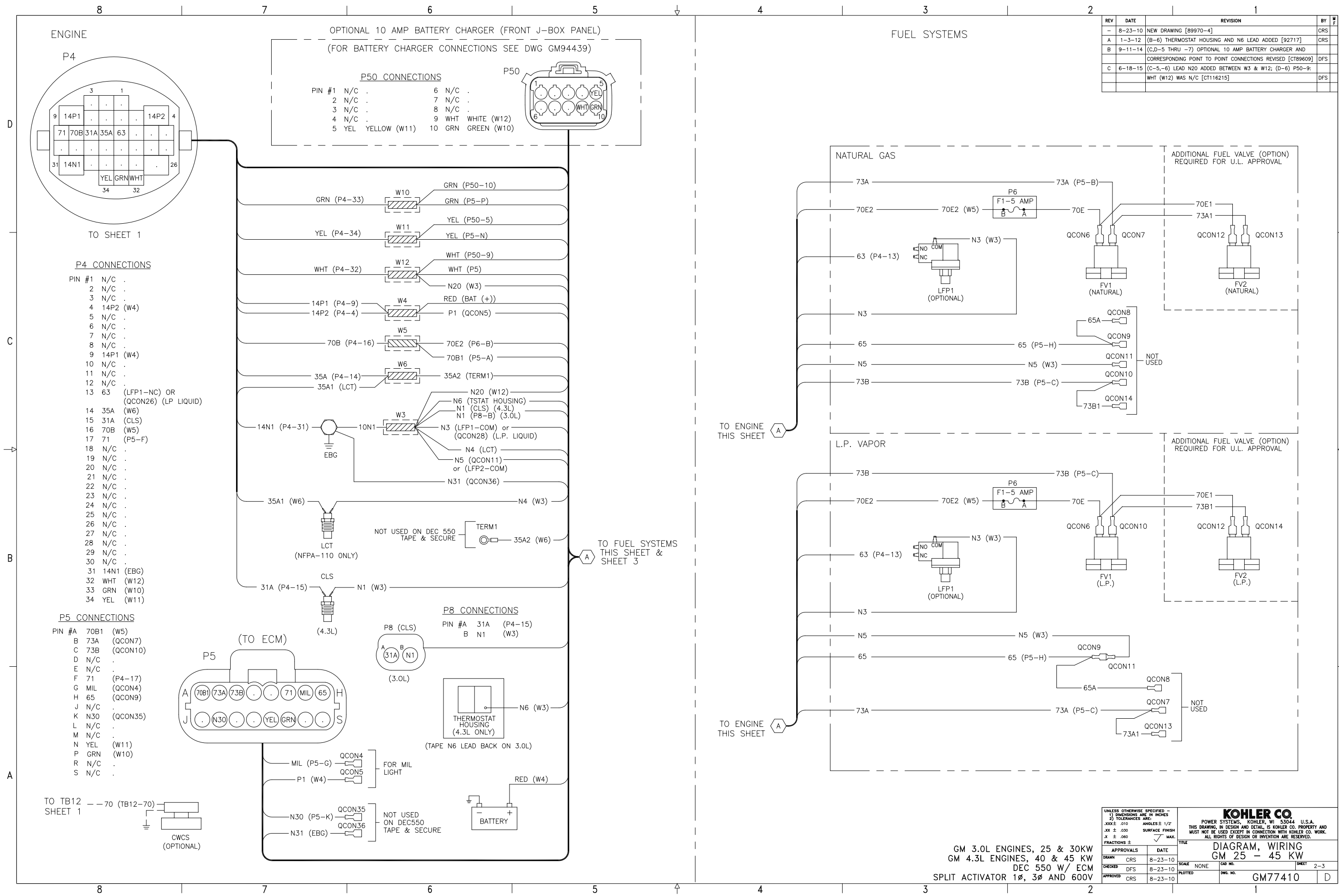


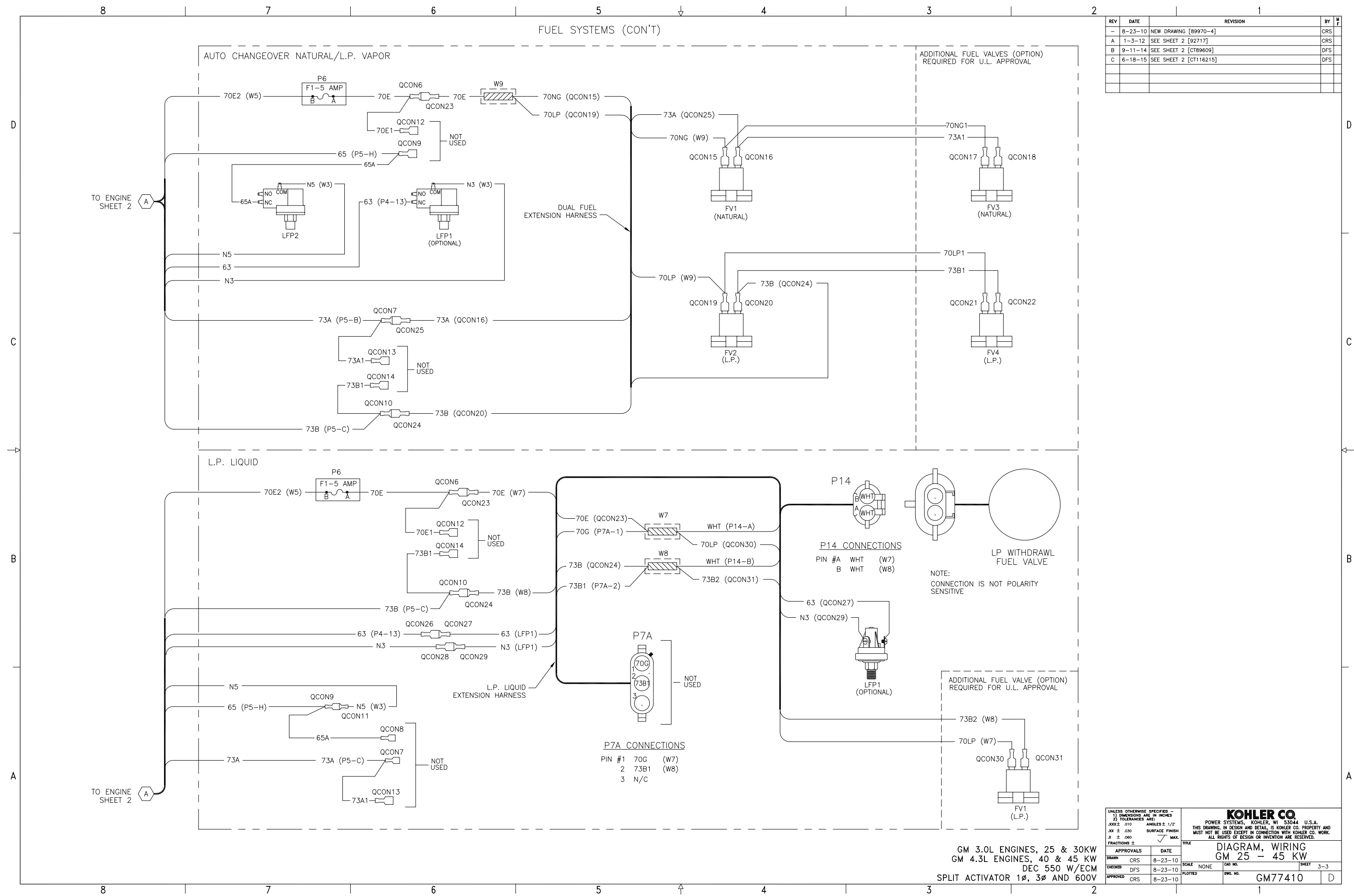
- LEGEND**
- CLS - COOLANT LEVEL SENDER
 - CT(##) - CURRENT TRANSFORMER
 - CWCS - CITY WATER COOLING SOLENOID
 - EBG - ENGINE BLOCK GROUND
 - ECM - ELECTRONIC CONTROL MODULE
 - ESS - EMERGENCY STOP SWITCH
 - FV(##) - FUEL VALVE
 - GND - CONTROLLER BOX GROUND
 - J(##) - CONNECTOR
 - LCT - LOW COOLANT TEMPERATURE SWITCH
 - LFP(##) - LOW FUEL PRESSURE SWITCH
 - LFPS - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
 - P(##) - CONNECTOR
 - PGND - CONTROLLER PANEL GROUND
 - PL(##) - PANEL LAMP
 - QCON(##) - QUICK CONNECT
 - SLB - STATIONARY LED BOARD
 - SM - STARTER MOTOR
 - SS - STARTER SOLENOID
 - STAT - STATOR
 - TB1 - INTERCONNECTION BOARD TERMINAL BLOCK
 - TB2 - A/D TERMINAL BLOCK
 - TB3 - OUTPUT TERMINAL BLOCK
 - TB4 - DIGITAL INPUT TERMINAL BLOCK
 - TB5 - CONTROLLER A.C. FUSE BLOCK
 - TB10 - ACCESSORY TERMINAL BLOCK
 - TB12 - JUNCTION BOX TERMINAL BLOCK

UNLESS OTHERWISE SPECIFIED -				KOHLER CO.			
1) DIMENSIONS ARE IN INCHES				POWER SYSTEMS, KOHLER, WI 53044 U.S.A.			
2) TOLERANCES ARE:				THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
.XXX ± .010	ANGLES ± 1/2°	SURFACE FINISH	MAX.	TITLE			
.XX ± .030		✓		DIAGRAM, WIRING			
.X ± .080				GM 25 - 45 KW			
FRACTIONS ±				DRAWN			
APPROVALS	DATE	SCALE	NONE	CAD NO.	1-3	SHEET	
CHECKED	DFS	8-23-10	PLOTTED	ENG. NO.	GM77410	D	
APPROVED	CRS	8-23-10					

FOR SCHEMATIC SEE ADV-7963.

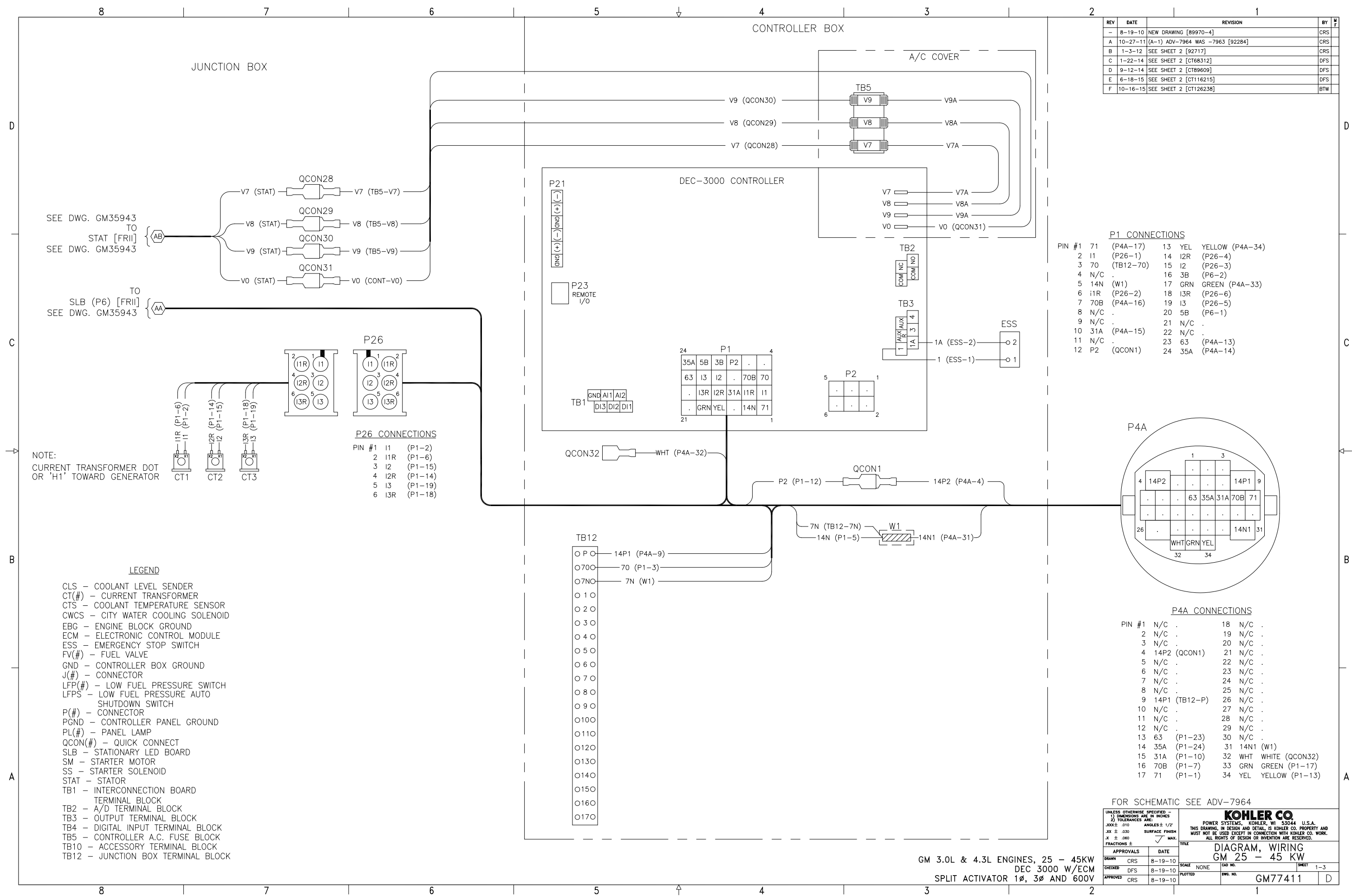
GM 3.0L ENGINES, 25 & 30KW
GM 4.3L ENGINES, 40 & 45KW
DEC 550 W/ECM
SPLIT ACTIVATOR 1Ø, 3Ø AND 600V

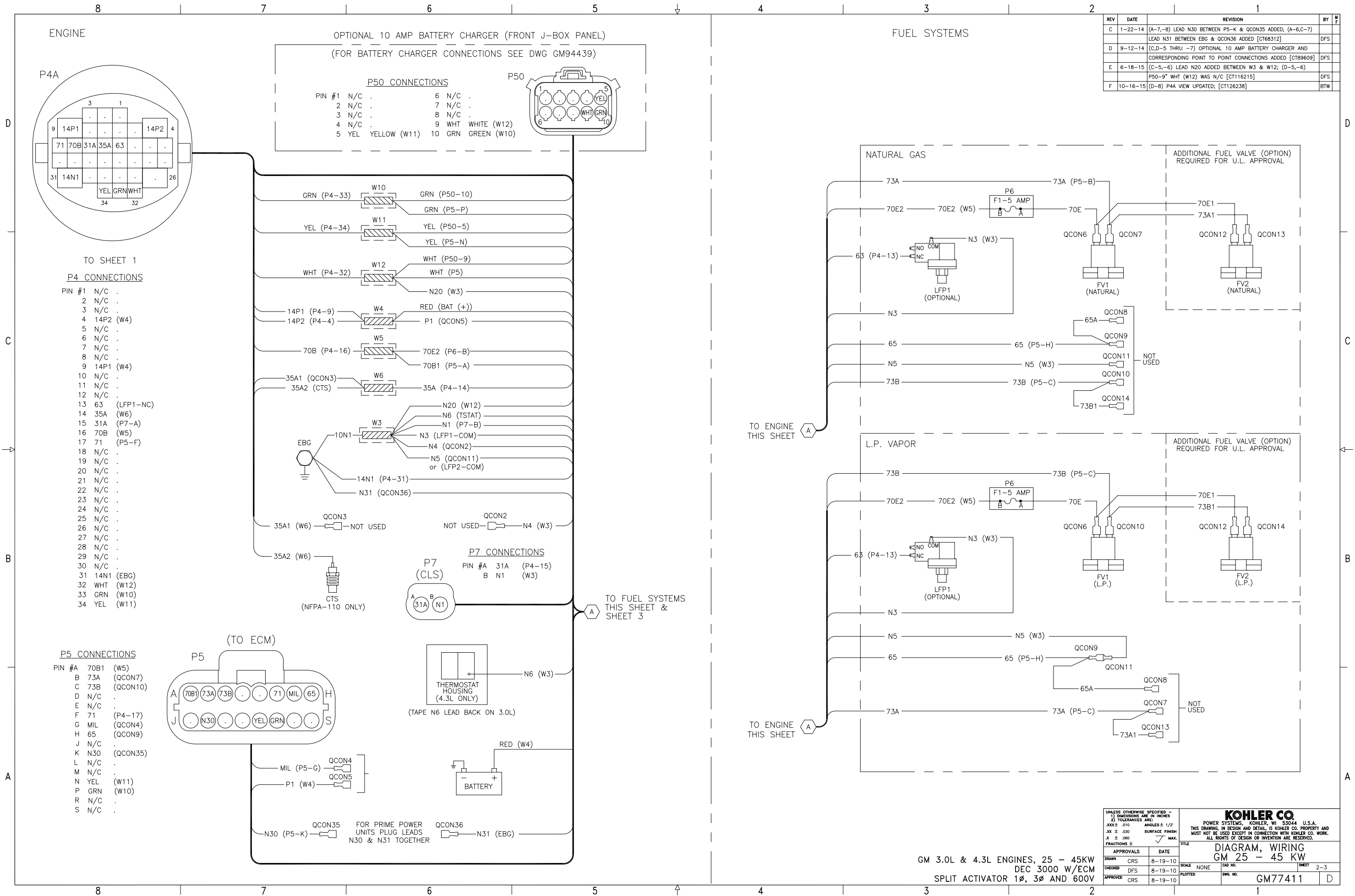


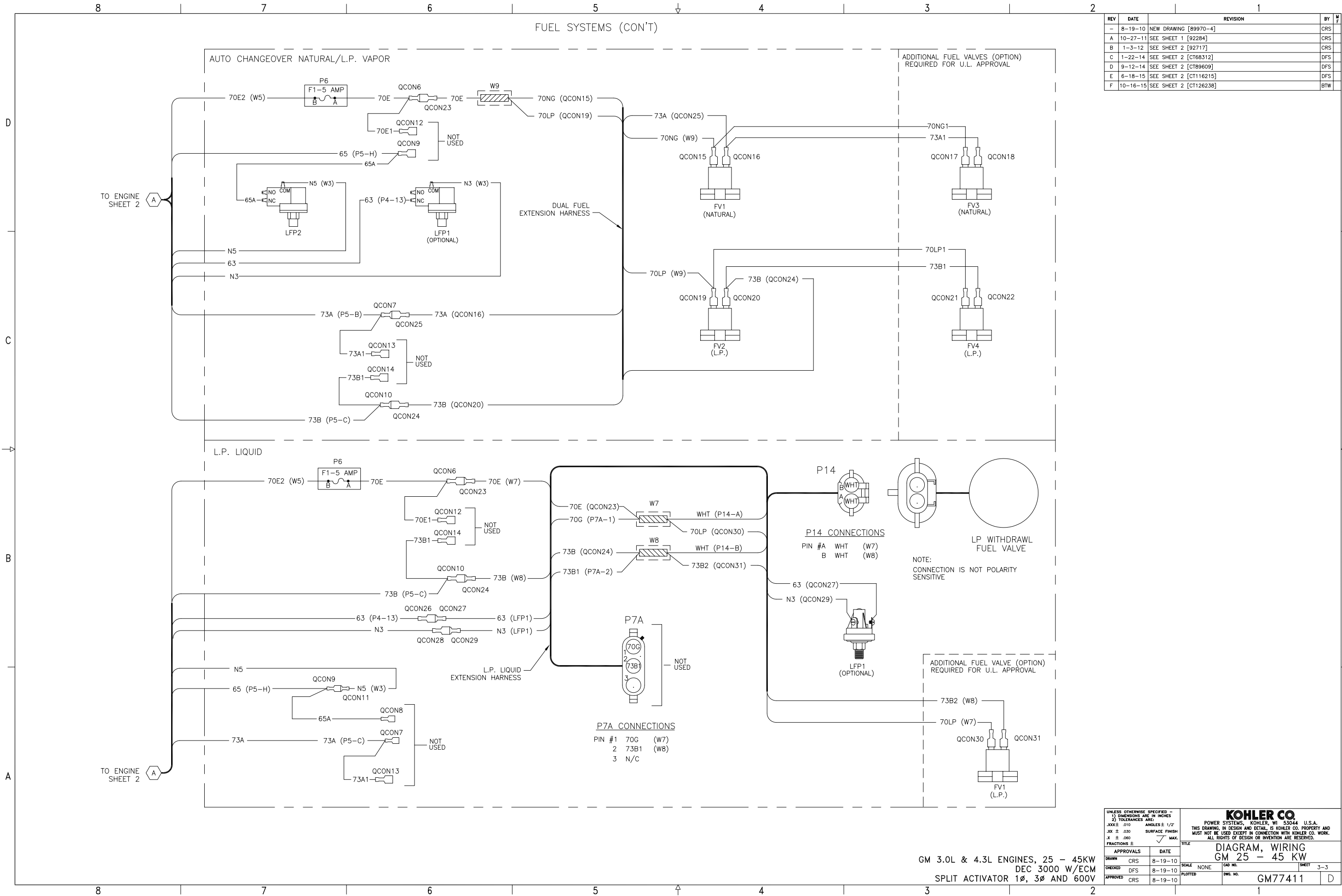


REV	DATE	REVISION	BY	W	F
-	8-23-10	NEW DRAWING [89970-4]	CRS		
A	1-3-12	SEE SHEET 2 [92717]	CRS		
B	9-11-14	SEE SHEET 2 [CT89609]	DFS		
C	6-18-15	SEE SHEET 2 [CT116215]	DFS		

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° XX ± .030 SURFACE FINISH X ± .040 MAX. FRACTIONS 1/16				KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
APPROVALS		DATE		TITLE			
DRAWN CRS		8-23-10		DIAGRAM, WIRING			
CHECKED DFS		8-23-10		SCALE NONE		SHEET 3-3	
APPROVED CRS		8-23-10		DWG. NO. GM77410		D	



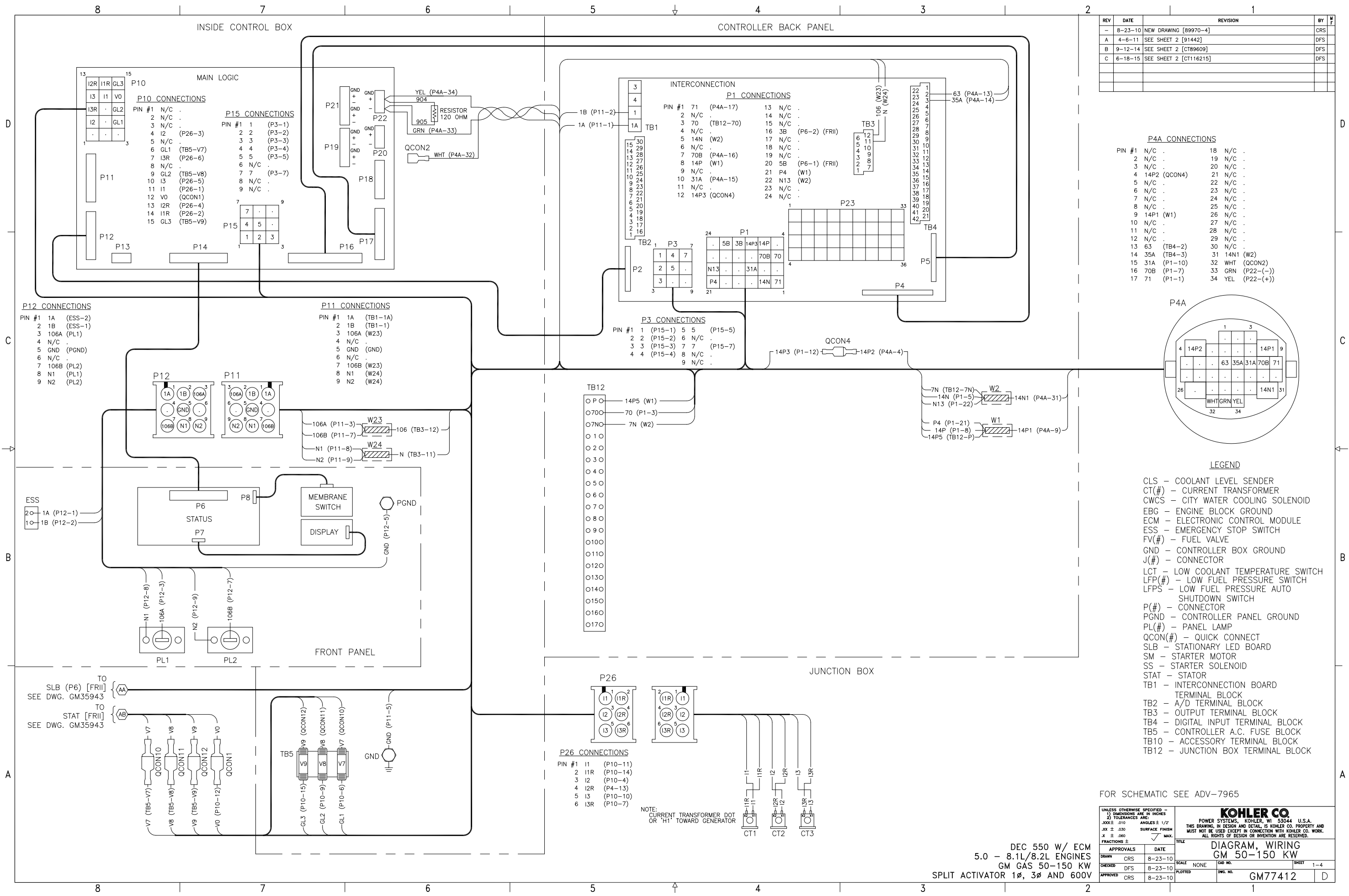


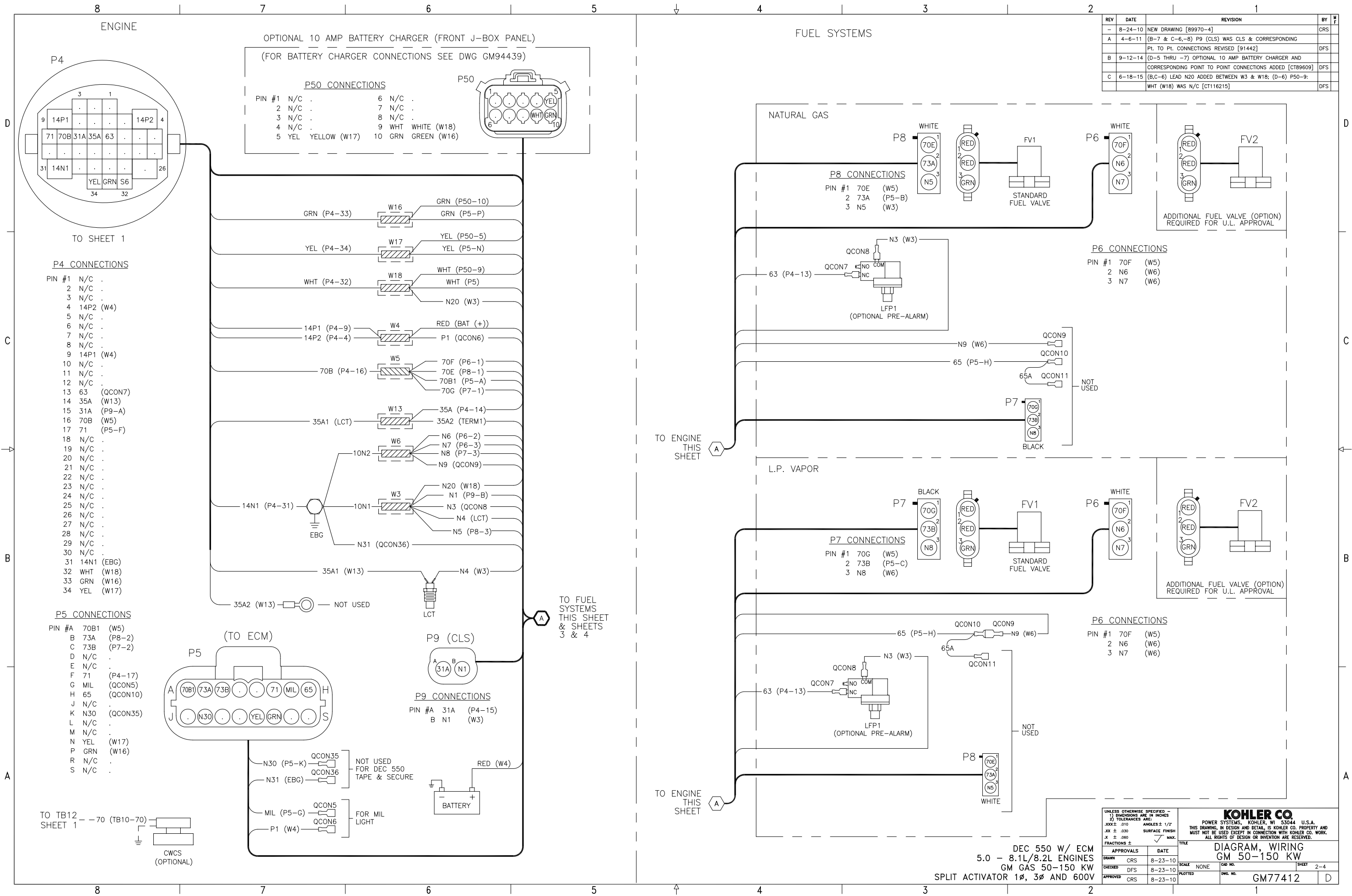


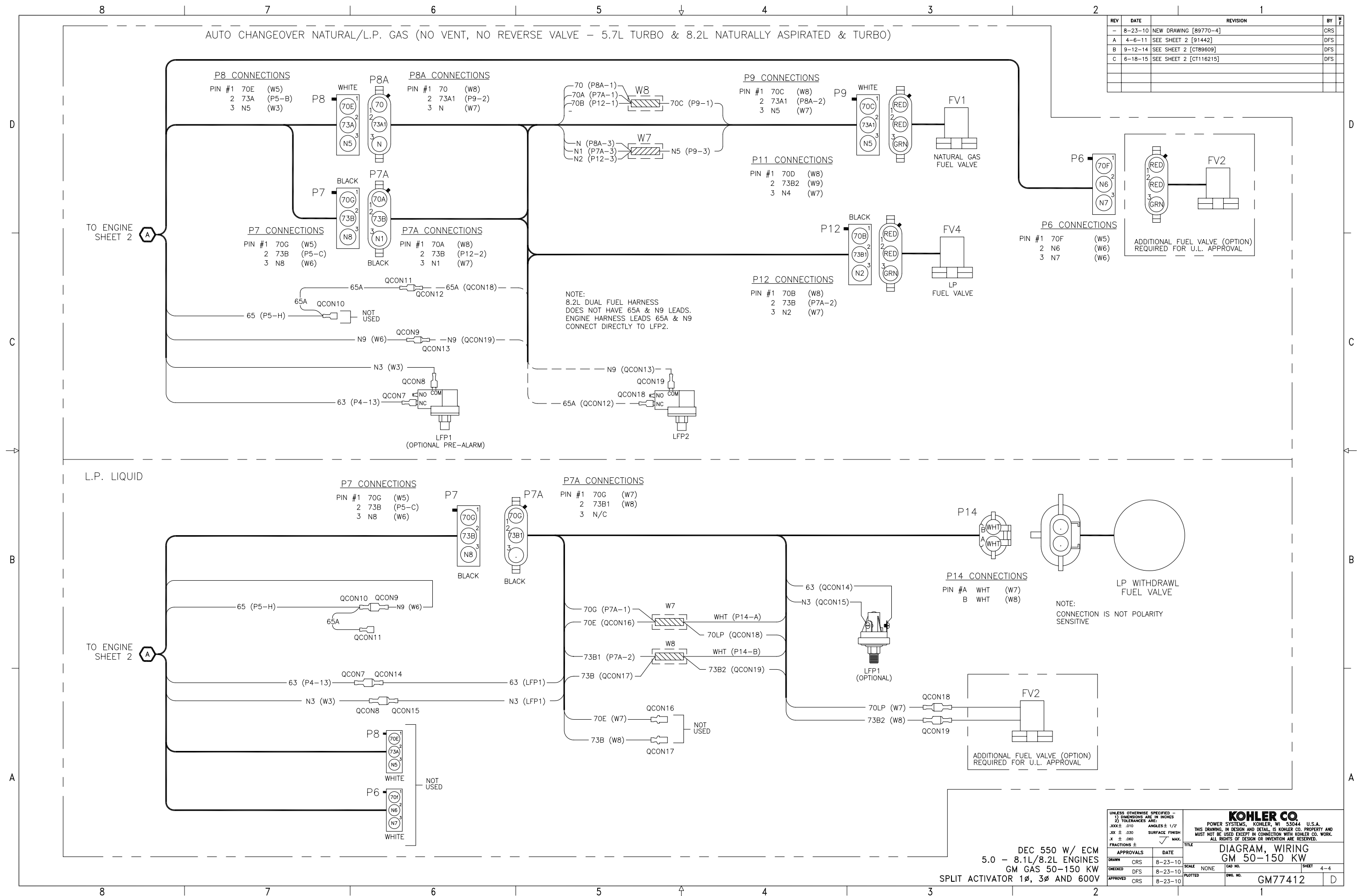
REV	DATE	REVISION	BY	W
-	8-19-10	NEW DRAWING [89970-4]	CRS	
A	10-27-11	SEE SHEET 1 [92284]	CRS	
B	1-3-12	SEE SHEET 2 [92717]	CRS	
C	1-22-14	SEE SHEET 2 [CT68312]	DFS	
D	9-12-14	SEE SHEET 2 [CT89609]	DFS	
E	6-18-15	SEE SHEET 2 [CT116215]	DFS	
F	10-16-15	SEE SHEET 2 [CT126238]	BTW	

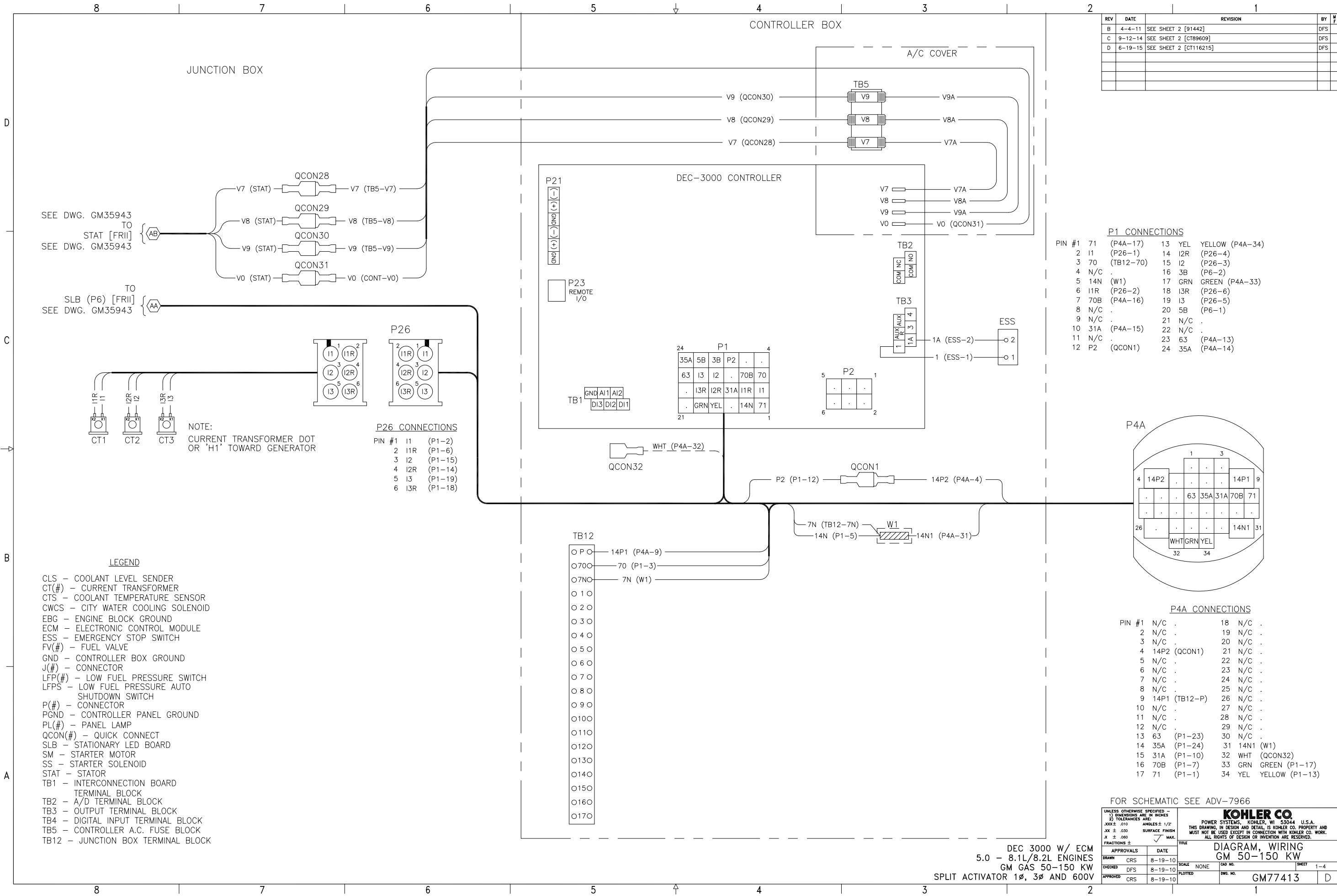
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES 1/2° XXX ± .030 SURFACE FINISH X ± .060 FRACTIONS ±				KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
APPROVALS		DATE		TITLE DIAGRAM, WIRING GM 25 - 45 KW			
DRAWN	CRS	8-19-10		SCALE	NONE	CAD NO.	SHEET 3-3
CHECKED	DFS	8-19-10		PLOTTED		DWG. NO.	GM77411
APPROVED	CRS	8-19-10					D

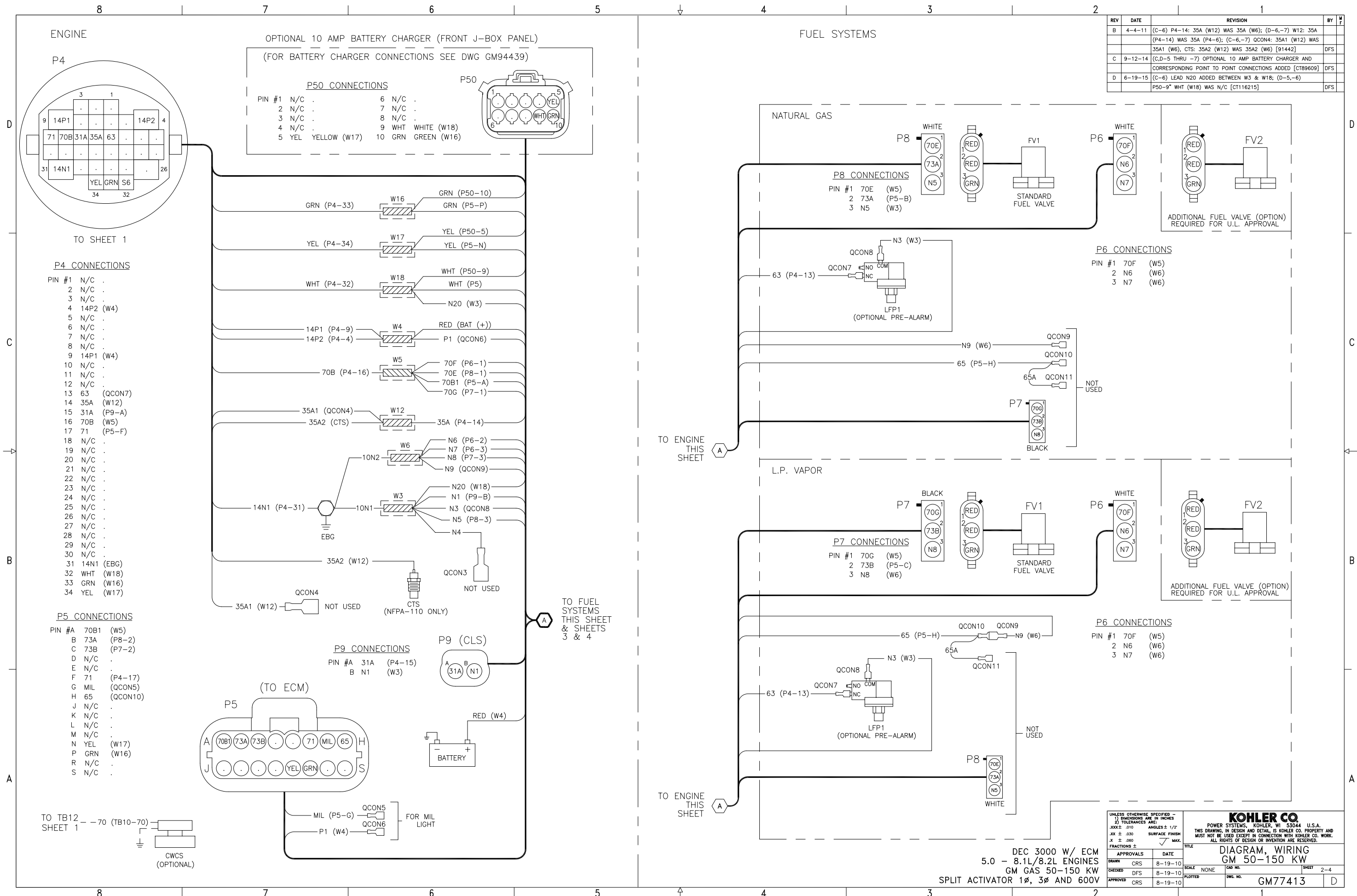
GM 3.0L & 4.3L ENGINES, 25 - 45KW
DEC 3000 W/ECM
SPLIT ACTIVATOR 1Ø, 3Ø AND 600V

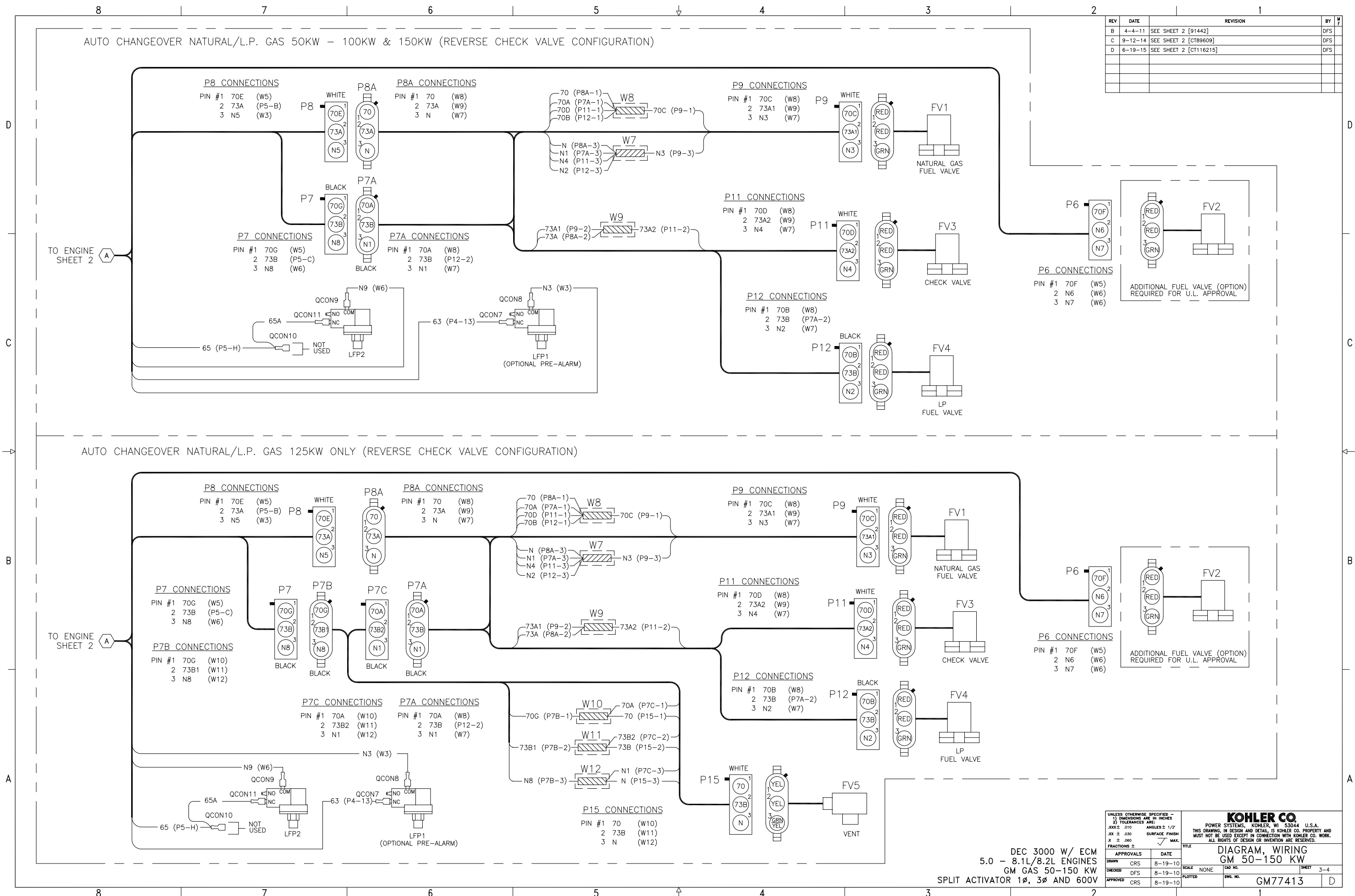






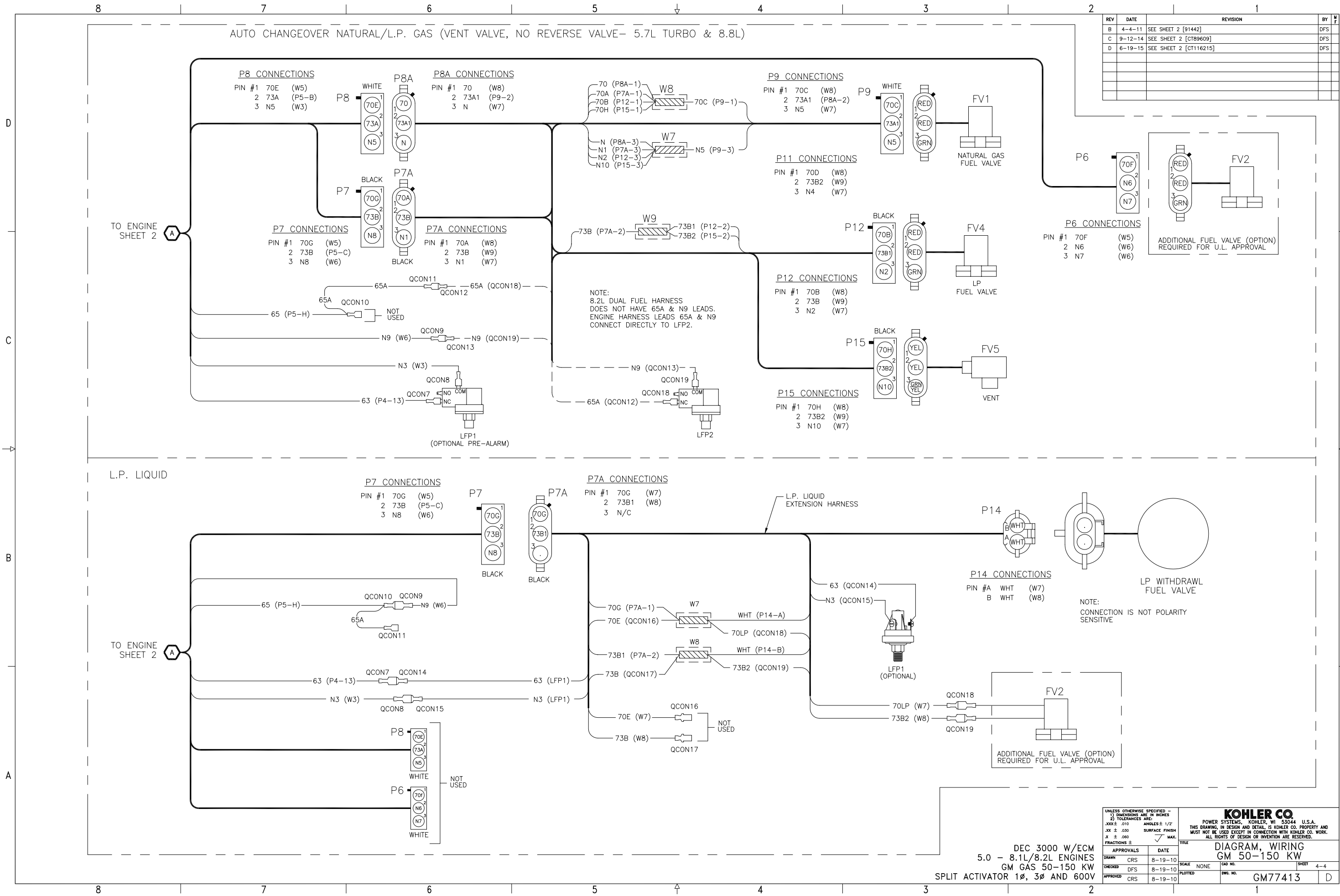


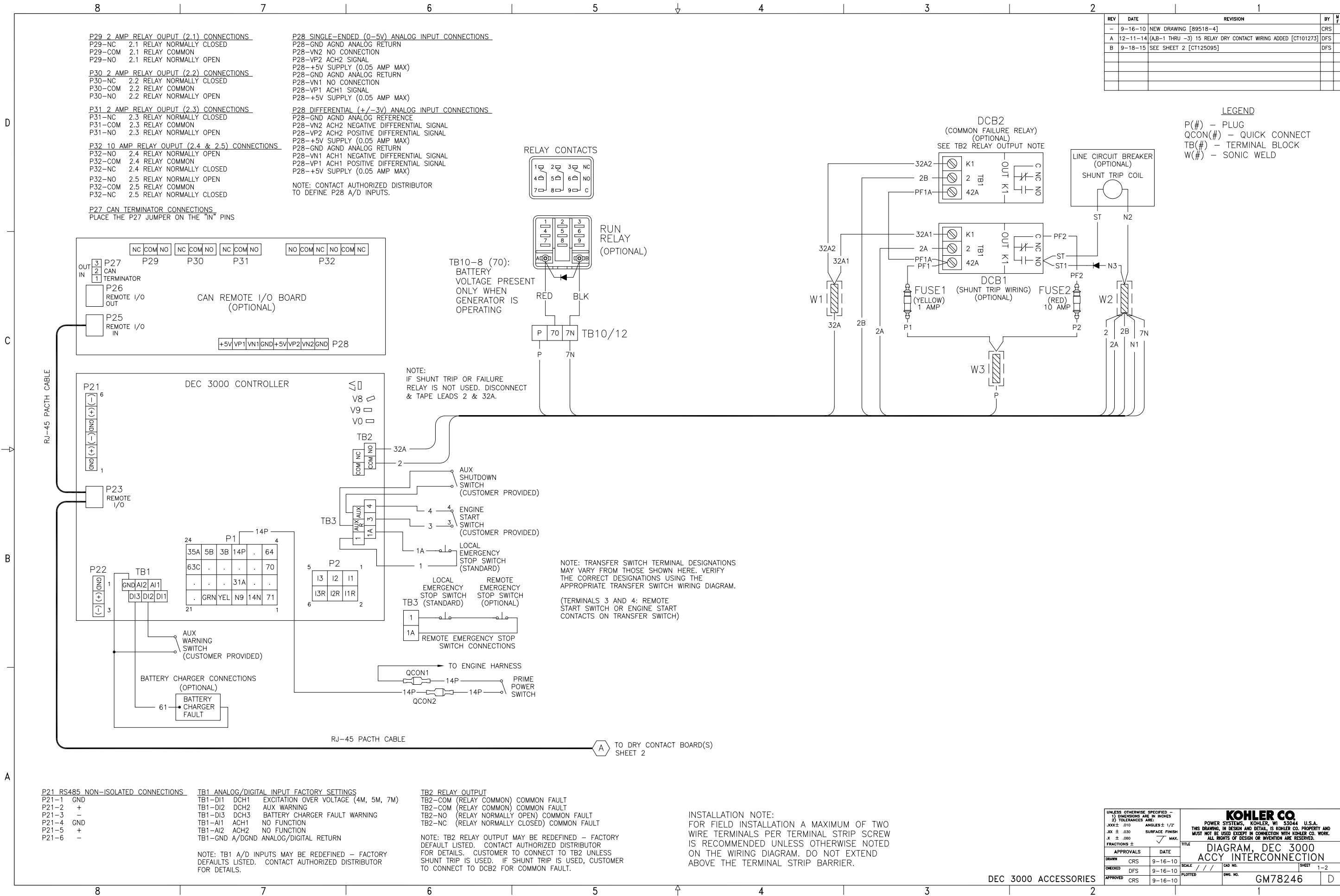




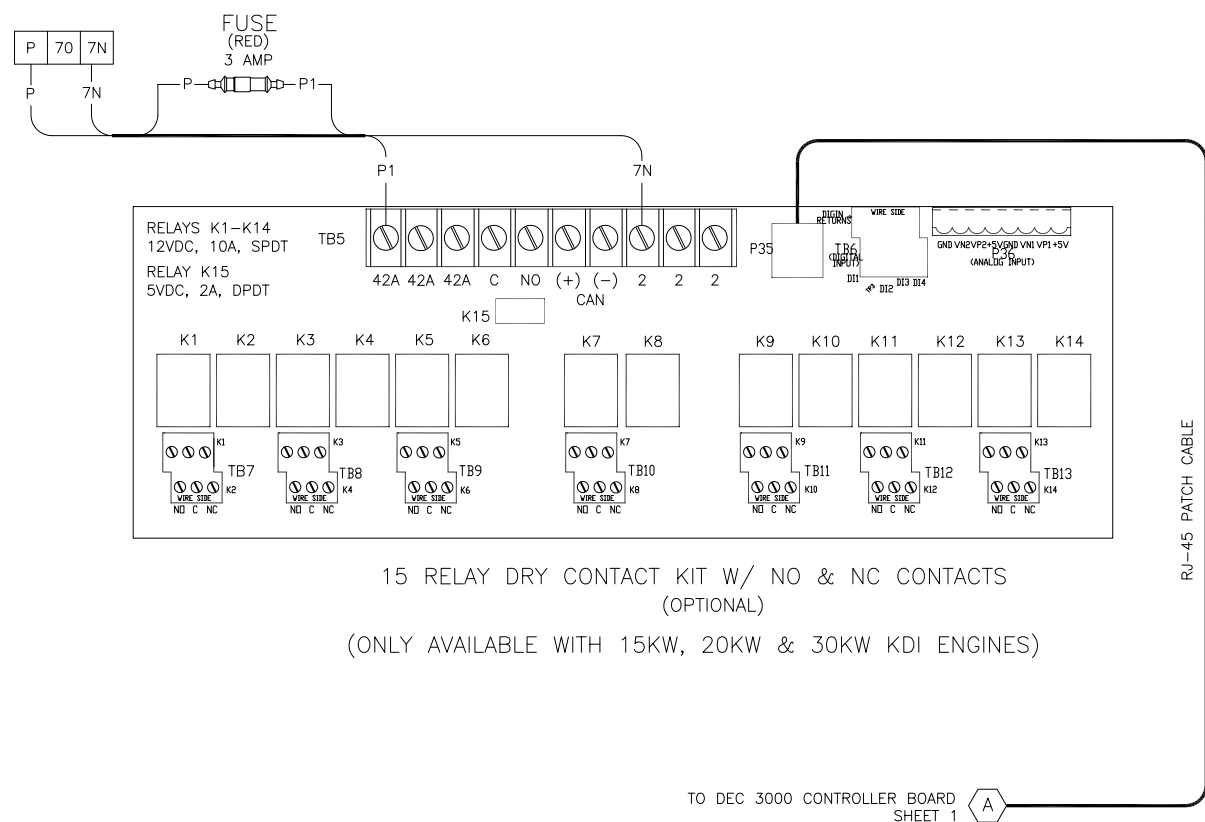
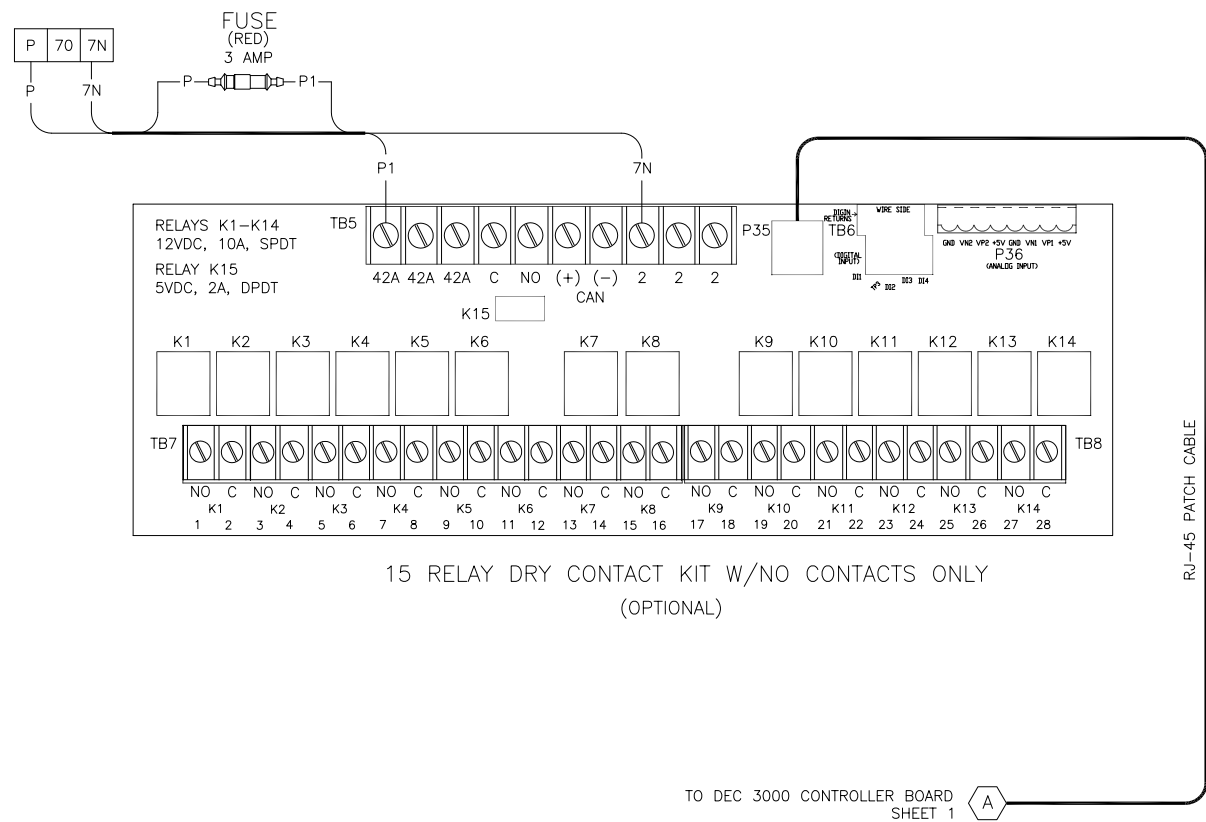
REV	DATE	REVISION	BY	WF
B	4-4-11	SEE SHEET 2 [91442]	DFS	
C	9-12-14	SEE SHEET 2 [CT89609]	DFS	
D	6-19-15	SEE SHEET 2 [CT116215]	DFS	

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	TITLE
DRAWN CRS		8-19-10	DIAGRAM, WIRING
CHECKED DFS		8-19-10	GM 50-150 KW
APPROVED CRS		8-19-10	
SCALE NONE		CAD NO.	SHEET 3-4
PLOTTED		DWG. NO.	GM77413
			D

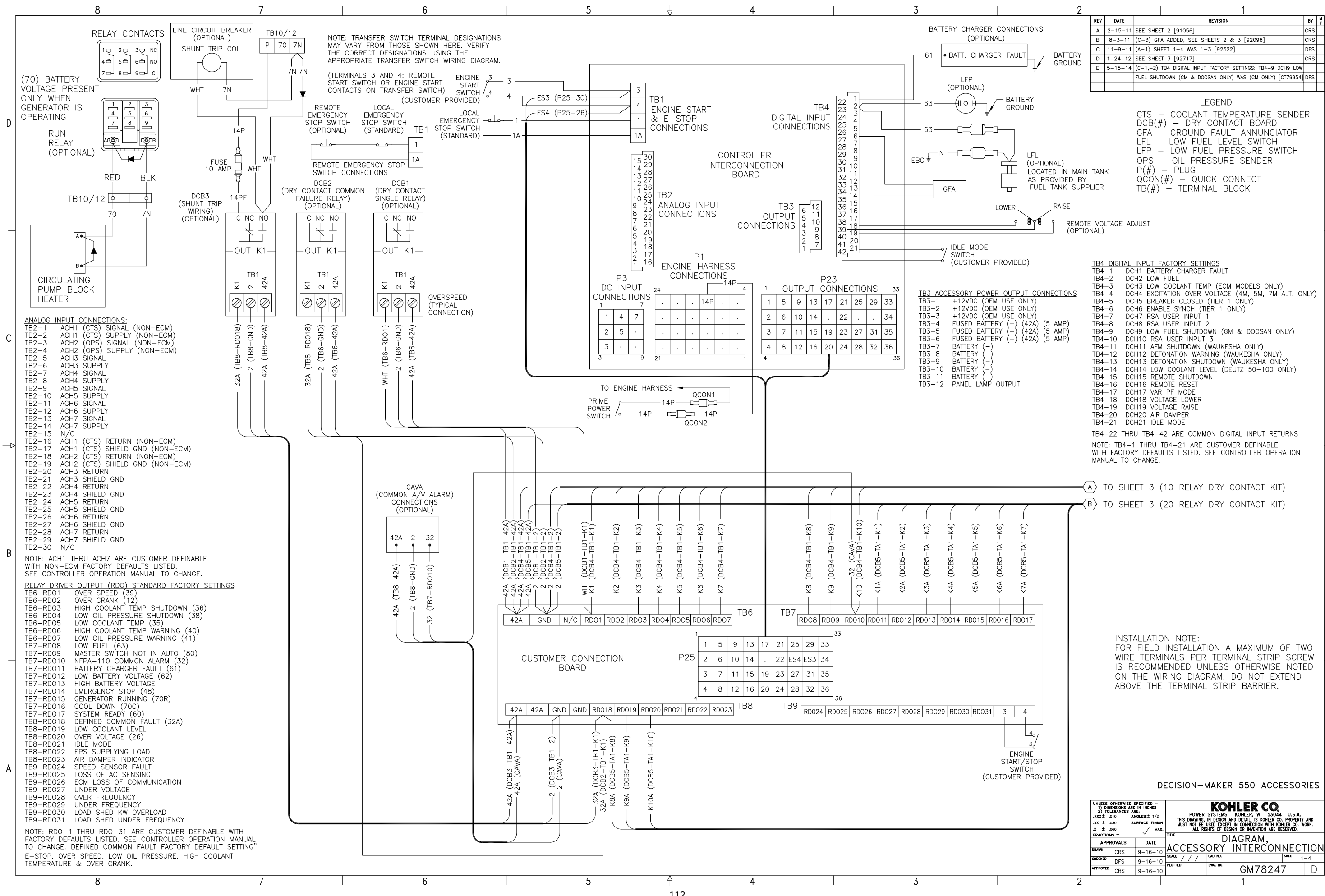




REV	DATE	REVISION	BY	M F
B	9-18-15	THIS SHEET ADDED; (B,C-1 THRU -4) GM75749-KA5 ADDED; (B,C-5 & -6) RJ-45 PATCH CABLE ADDED TO GM89315-KA1		
		[CT125095]	DFS	



UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .0005 ± .001 ANGLES ± 1/2° .001 ± .001 SURFACE FINISH .001 ± .001 FRACTIONS ± 1/32" MAX.		KOHLER CO. POWER SYSTEMS, KOHLER, WI. 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
TITLE DIAGRAM, DEC 3000 ACCY INTERCONNECTION		SCALE /// CAD NO. _____ SHEET 2-2 PLOTTED _____ DWG. NO. GM78246	
APPROVALS DATE DRAWN DFS 9-18-15 CHECKED CRS 9-18-15 APPROVED DFS 9-18-15		D	



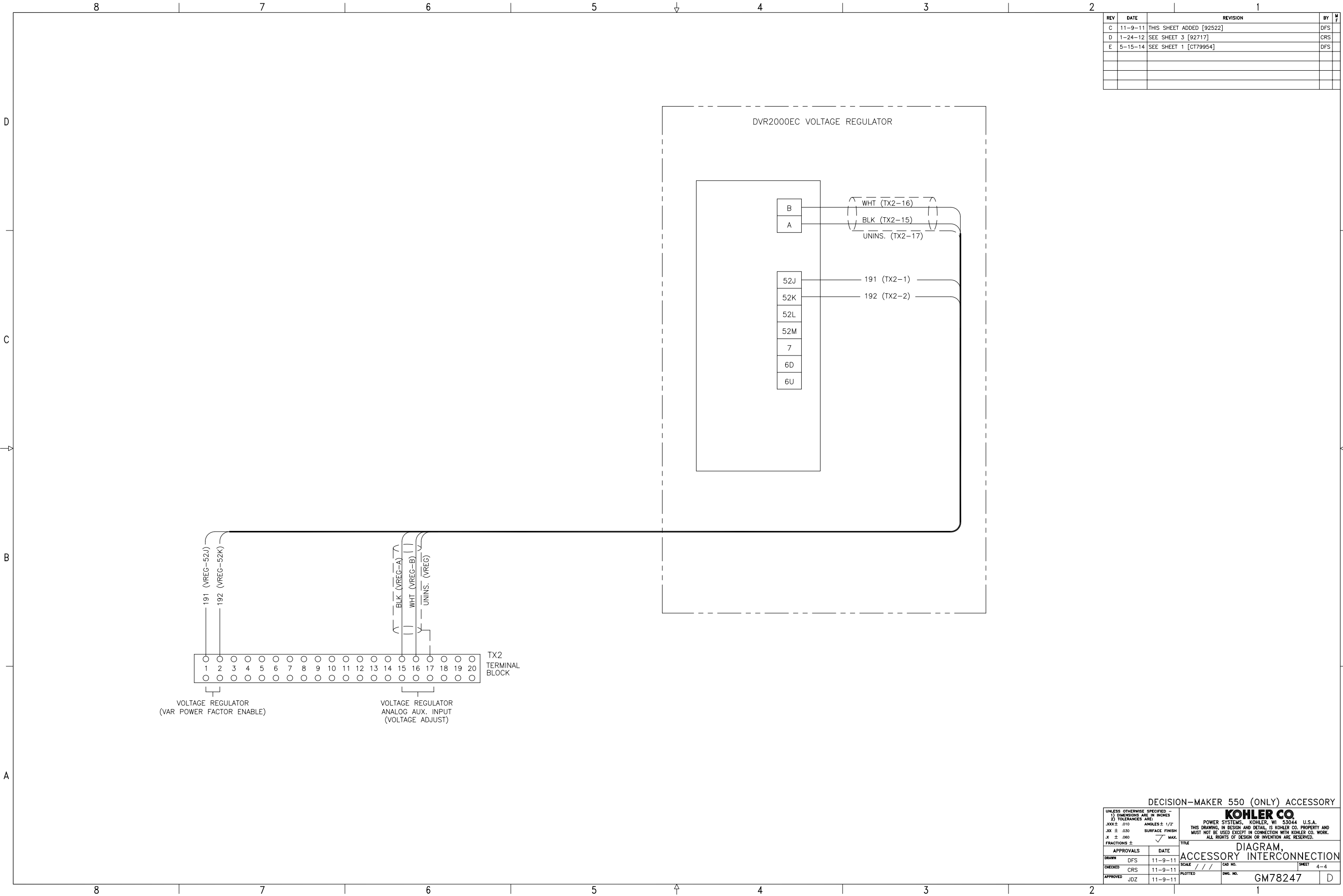


REV	DATE	REVISION	BY	W F
A	2-15-11	(B-4) 20 RELAY CONTACT WIRING ADDED [91056]	CRS	
B	8-3-11	SHEET 1 AND SHEET 2 CONTACT FUNCTION NOTES ADDED.		
		SEE SHEETS 1 & 2 [92098]	CRS	
C	11-9-11	(A-1) SHEET 3-4 WAS 3-3 [92522]	DFS	
D	1-24-12	(B-5) K1A-K10A LEADS AND LABELS UPDATED TO MATCH		
		HARNESS [92717]	CRS	
E	5-15-14	SEE SHEET 1 [CT79954]	DFS	

INSTALLATION NOTE:
FOR FIELD INSTALLATION A MAXIMUM OF TWO
WIRE TERMINALS PER TERMINAL STRIP SCREW
IS RECOMMENDED UNLESS OTHERWISE NOTED
ON THE WIRING DIAGRAM. DO NOT EXTEND
ABOVE THE TERMINAL STRIP BARRIER.

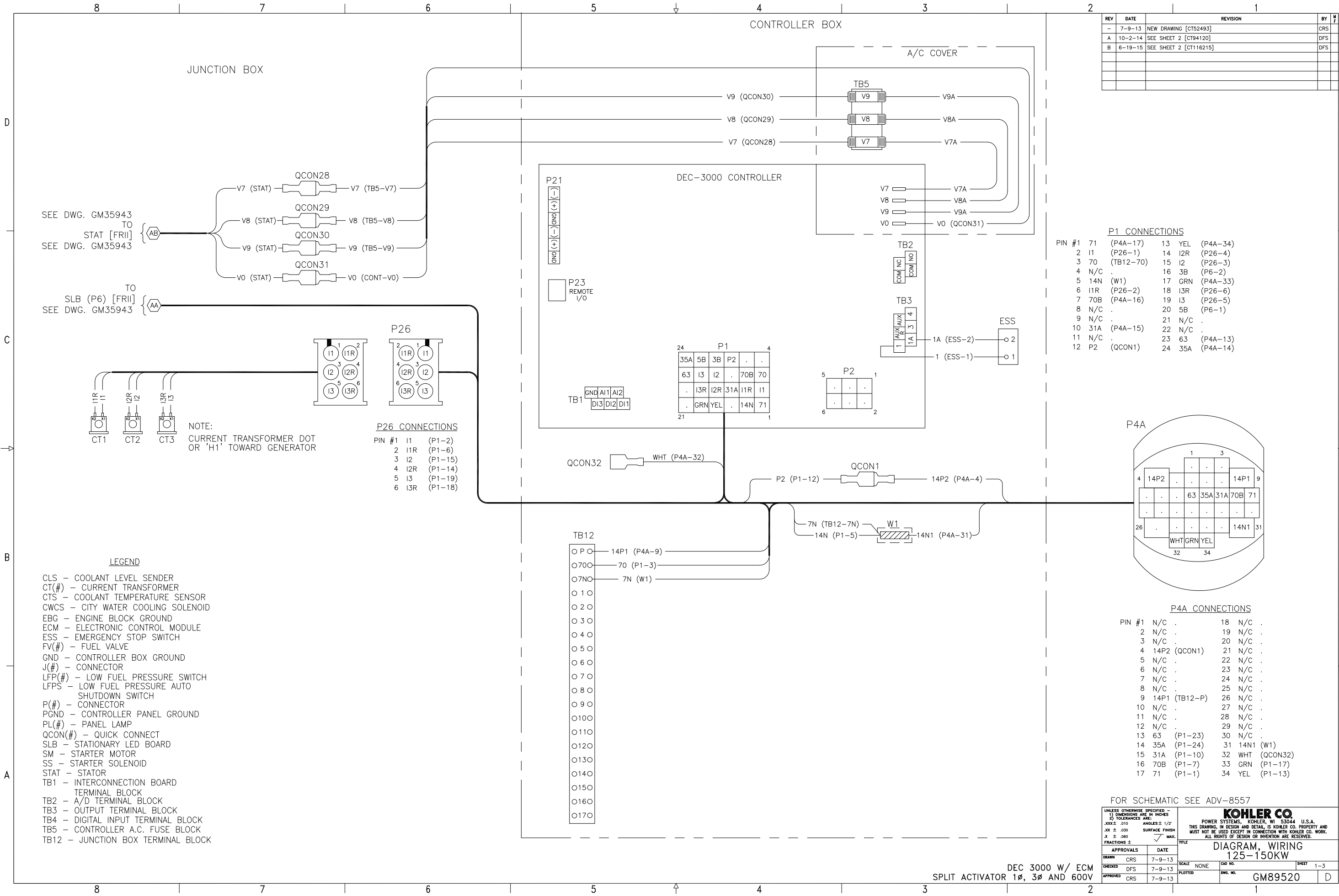
DECISION-MAKER 550 & 6000 ACCESSORIES

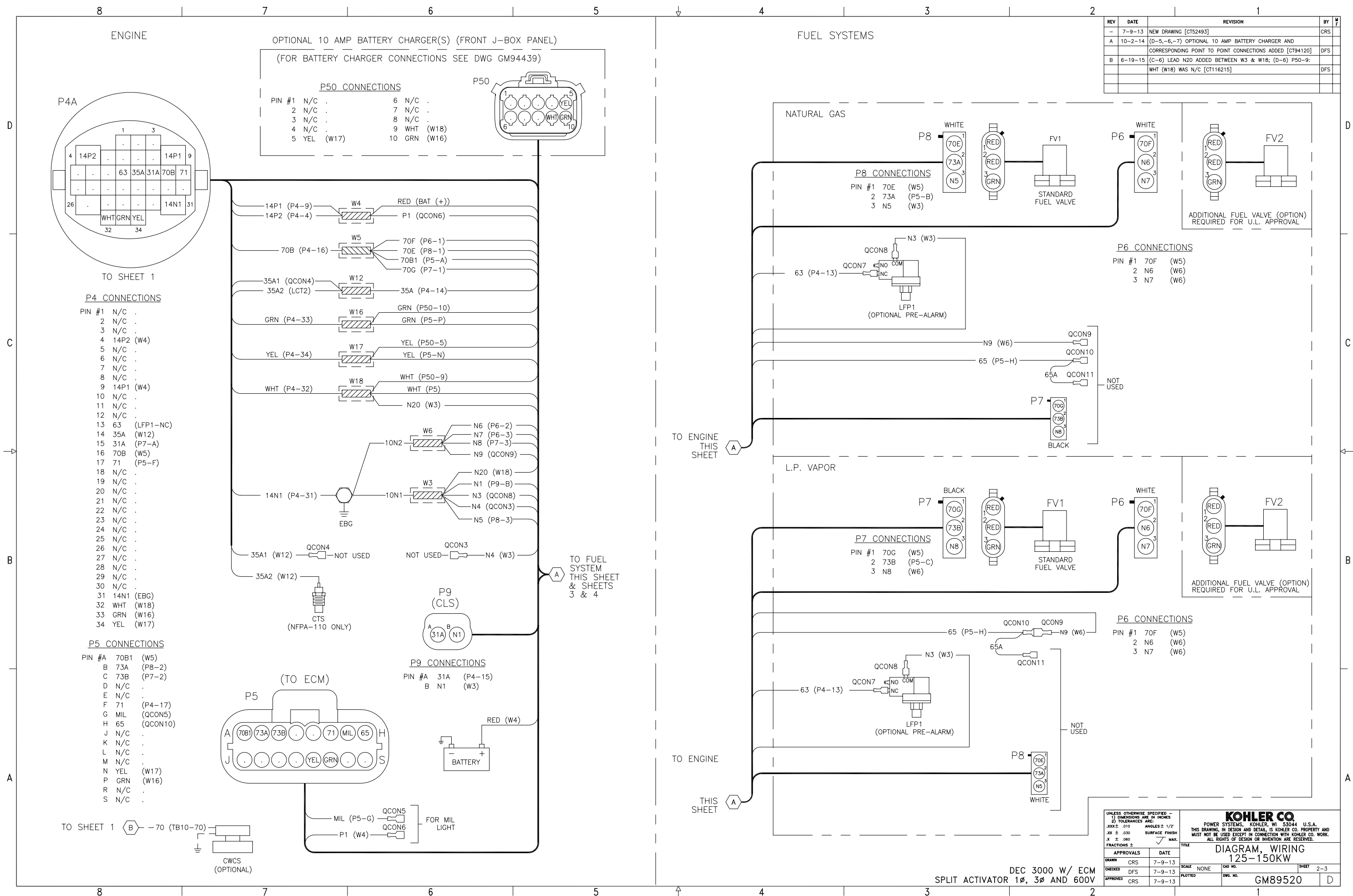
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 .XX ± .030 .X ± .060 FRACTIONS ±		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		DATE	
DRAWN CRS		9-16-10	
CHECKED DFS		9-16-10	
APPROVED CRS		9-16-10	
TITLE		DIAGRAM ACCESSORY INTERCONNECTION	
SCALE		///	
PLOTTED		DWC NO.	
		GM78247	
		D	



REV	DATE	REVISION	BY	W	F
C	11-9-11	THIS SHEET ADDED [92522]	DFS		
D	1-24-12	SEE SHEET 3 [92717]	CRS		
E	5-15-14	SEE SHEET 1 [CT79954]	DFS		

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XXX ± .030 SURFACE FINISH .X ± .040 ✓ MAX. FRACTIONS ±					
APPROVALS			DATE		
DRAWN DFS			11-9-11		
CHECKED CRS			11-9-11		
APPROVED JDZ			11-9-11		
SCALE			///		
PLOTTED					
CADD NO.			SHEET		
DWG. NO.			4-4		
GM78247			D		





KOHLER[®] Power Systems

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