

DRAWING INDEX		
SPARTAN DWG No.	DESCRIPTION	REV.
RS-26807-AA-010-00	DRAWING INDEX	1
RS-26807-AA-100-00	EXTERNAL CABINET LAYOUT	1
RS-26807-AA-100-01	INTERNAL CABINET LAYOUT	1
RS-26807-AA-200-00	BILL OF MATERIALS	1
RS-26807-AA-500-00	POWER DISTRIBUTION WIRING	1
RS-26807-AA-500-01	REMVue-500 WIRING DETAILS	1
RS-26807-AA-610-00	DISCRETE INPUT WIRING DIAGRAM	1
RS-26807-AA-610-01	DISCRETE INPUT WIRING DIAGRAM	1
RS-26807-AA-620-00	DISCRETE OUTPUT WIRING DIAGRAM	1
RS-26807-AA-630-00	ANALOG INPUT WIRING DIAGRAM	1
RS-26807-AA-640-00	ANALOG OUTPUT WIRING DIAGRAM	1
RS-26807-AA-650-00	THERMOCOUPLE INPUT WIRING DIAGRAM	1
RS-26807-AA-650-01	THERMOCOUPLE INPUT WIRING DIAGRAM	1

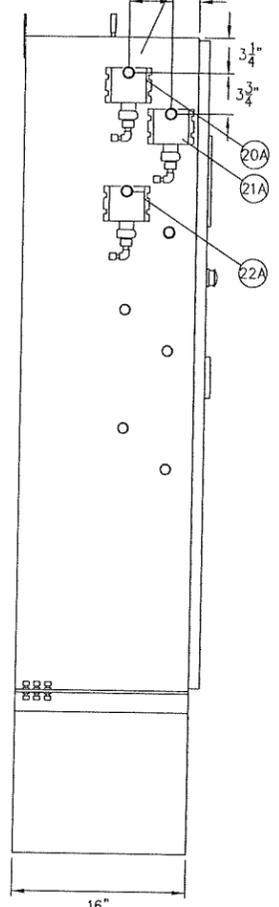
April 21 2011 3:40pm

DRAWING No.	REFERENCE DRAWINGS	REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
		1	SPARTAN AS BUILT	14 JUN 11	RDW	CBB	CBB	CBB
		0	ISSUED FOR CONSTRUCTION	25 MAY 11	RDW	CBB	CBB	CBB
		A	ISSUED FOR APPROVAL	21 APR 11	RDW	CBB	CBB	CBB

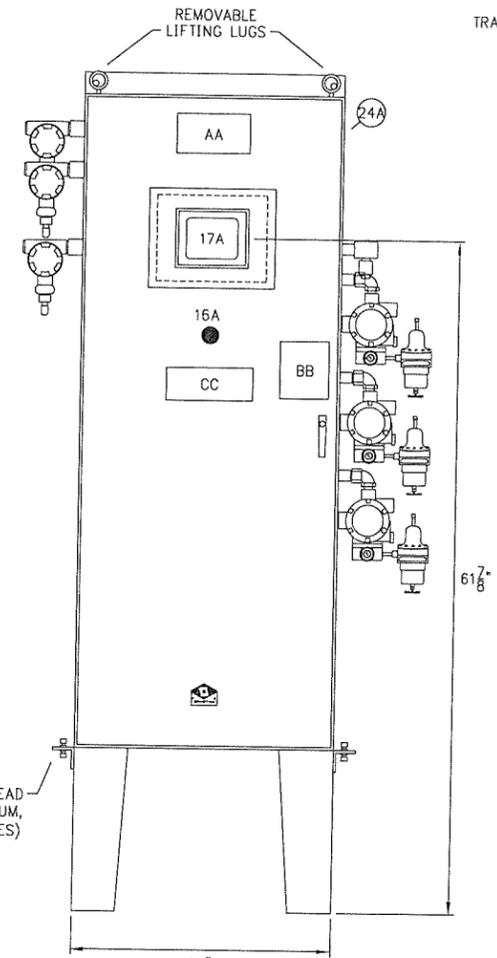
 <b>SPARTAN CONTROLS</b>	
PROGRESS ENERGY BLUEBERRY	
COMPRESSOR UNIT CONTROL PANEL (REMVue-500S) DRAWING INDEX	
LSD: c-29-K/94-A-12	UNIT# 1
PROJECT No. PN26807	DRAWING No. RS-26807-AA-010-00
SCALE: NTS	REV. 1

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ROSEMOUNT TRANSMITTERS ARE MOUNTED IN SETS OF TWO ON 10.875" CENTERS

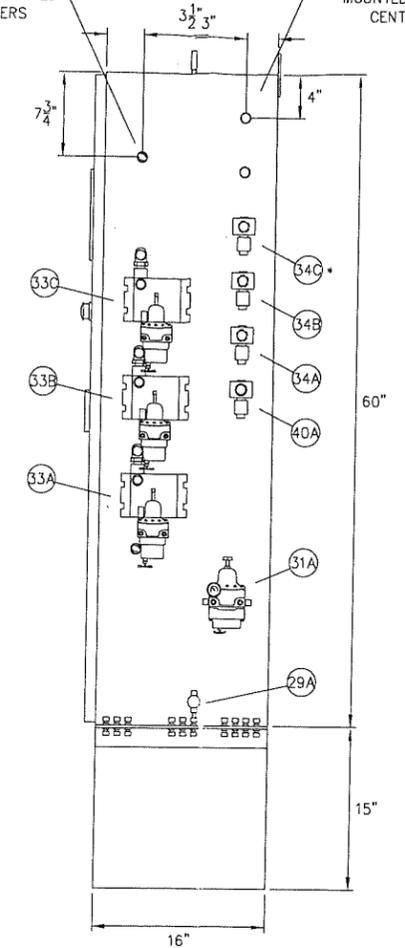


LEFT SIDE VIEW



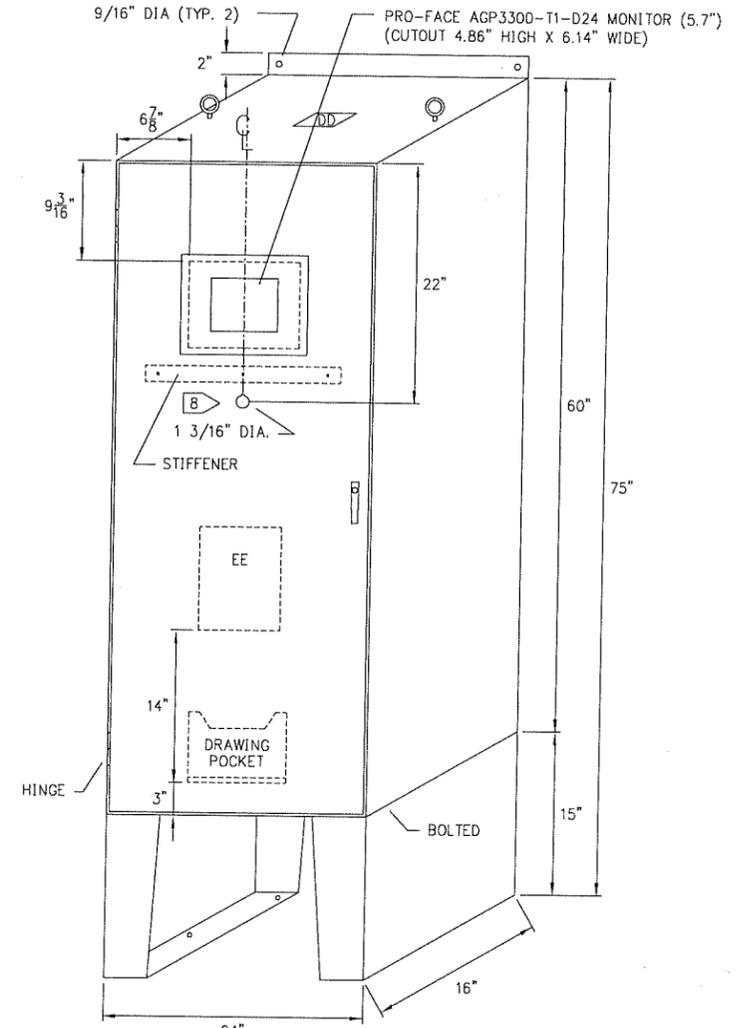
FRONT VIEW

FISHER I2P TRANSDUCERS MOUNTED ON 9" CENTERS ASCO SOLENOIDS MOUNTED ON 5" CENTERS



RIGHT SIDE VIEW

NOTE: ENCLOSURE SHOULD BE BOLTED TO A WALL TO REDUCE VIBRATION.



CABINET CUTOUT DETAILS

ITEM	LAMACOID TAG	SIZE	COLOUR
AA	REMVue-500S	3.625x6.75	-
EE	GROUNDING INSTRUCTIONS	9.5x7.5	WHITE
16A	USD	1x3	RED

**LAMACOID TAG 'BB'**  
(LAMACOID SIZE: 4.5x5.25, COLOUR: RED)

**WARNING**  
MORE THAN ONE LIVE CIRCUIT (see wiring diagram). ENSURE THERE IS NO GAS PRESENT AND DISCONNECT POWER BEFORE SERVICING, OPERATING DISCONNECT TERMINALS, TEST JUMPERS AND/OR REMOVING FUSES.

USE OF CERAMIC OR SAND FILLED FUSES IS RECOMMENDED. DO NOT EXCEED FUSE RATINGS.

ALL EQUIPMENT INSTALLED IN THIS PANEL MUST BE SUITABLE FOR CL.I DIV.2. SUBSTITUTION OF EQUIPMENT MAY IMPAIR SUITABILITY FOR CL.I DIV.2 HAZARDOUS LOCATIONS

AUTHORIZED PERSONNEL ONLY

**LAMACOID TAG 'DD'**  
(LAMACOID SIZE: 1.25x3, COLOUR: RED (FASTENED WITH 2 SIDE TAPE ONLY))

**WARNING**  
INTERNAL PANEL COMPONENTS MUST BE COVERED PRIOR TO DRILLING ANY HOLES INTO THIS ENCLOSURE

**LAMACOID TAG 'CC'**

PROGRESS ENERGY  
SITE : BLUEBERRY  
UNIT #1  
ENGINE : WAUKESHA 5790GL  
COMPRESSOR : ARIEL JGC/2

- NOTES:
- CABINET TO BE 60" H X 24" W X 16" D C/W SINGLE FRONT ACCESS DOOR, 3 POINT HANDLE AND 15" HIGH LEGS (EACH LEG HAS THREE, 1/2" DIA. MOUNTING HOLES).
  - PAINT COLOUR: SPARTAN CONTROLS BLUE.
  - ENCLOSURE RATING : NEMA 4.
  - ALL TUBING TO BE 1/4" 316SS (UNLESS NOTED OTHERWISE). ALL FITTINGS TO BE 1/4" SWAGelok 316SS. ALL STAINLESS STEEL LINES TO HAVE 316SS FERRULES.
  - SYSTEM VENTED TO TWO 3/8" BULKHEAD CONNECTIONS.
  - ALL DISCRETE END DEVICES NOT WIRED TO NON-INCENDIVE BARRIERS TO BE SUITABLE FOR CLASS 1, DIV 2 APPLICATION WITH 24VDC POWER.
  - ALL WIRING FOR TRANSMITTERS, SOLENOIDS & I/P TRANSDUCES PENETRATING THROUGH ENCLOSURE TO BE RUN IN CLASS 1, DIV. 2 CONNECTORS.
  - ALL ALLEN-BRADLEY PUSHBUTTONS TO HAVE KEYED CUTOUT.
  - PANEL CERTIFIED TO: CSA, CLASS 1, DIVISION 2, GROUPS C&D, TEMP CODE T2D.

DRIVER: WAUKESHA 5790GL  
COMPRESSOR: ARIEL JGC/2

**SPARTAN CONTROLS**

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
EXTERNAL CABINET LAYOUT

LSD: c-29-K/94-A-12 UNIT # 1

PROJECT No. PN26807 SCALE: NTS DRAWING No. RS-26807-AA-100-00 P.O.# 1

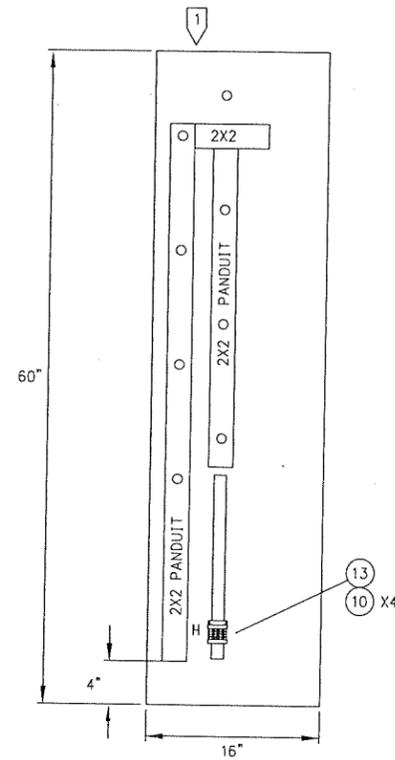
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REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
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A	ISSUED FOR APPROVAL	21 APR 11	ROW	CBB	CBB	CBB

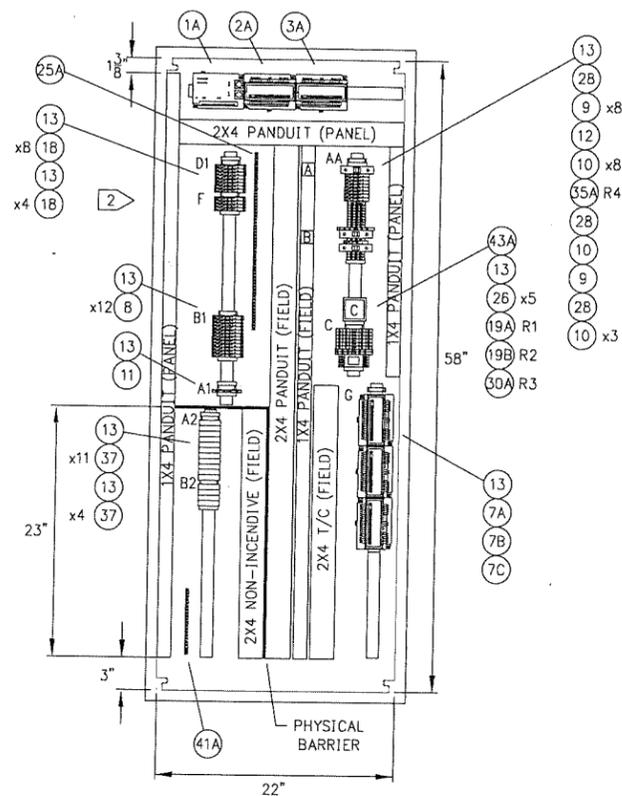
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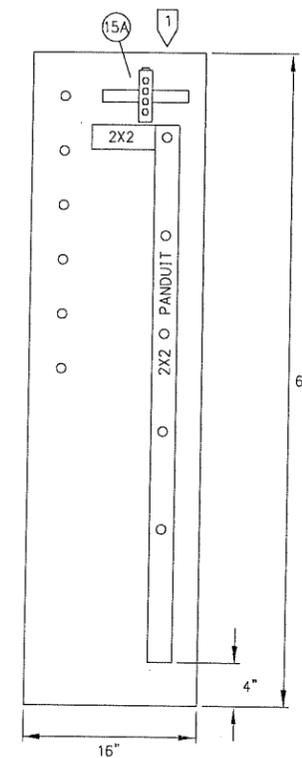
ITEM	LAMACOID TAG	SIZE	COLOUR
A	PANEL POWER →	1.125x1.125	WHITE
B	IGNITION POWER →	1.125x1.125	WHITE
C	SPARE FUSES →	2x2	WHITE



INTERNAL LAYOUT-LEFT SIDE



INTERNAL LAYOUT-REAR



INTERNAL LAYOUT-RIGHT SIDE

ITEM	TERMINAL STRIP IDENTIFIER
AA	DC POWER DISTRIBUTION
A1	TS 1 (D.I. TERMINALS)
A2	TS 1 (D.I. BARRIERS)
B1	TS 2 (D.I. TERMINALS) ALL FUSES 50 mA
B2	TS 2 (D.I. BARRIERS)
C	TS 3 (D.O. TERMINALS) ALL FUSES 1A
D	TS 4 (A.I. TERMINALS) ALL FUSES 50 mA
E	TS 5 (A.O. TERMINALS) ALL FUSES 50 mA
F	THERMOCOUPLES
G	COMM.'S (COMMUNICATION TERMINALS)

NOTES:

- 1 DIN RAIL AND/OR PANDUIT MOUNTED TO SIDE OF ENCLOSURE WITH STUDS
- 2 DIN RAIL TO BE ISOLATED FROM SUBPLATE AND GROUNDED TO THE GROUND BUS BAR.

\* INDICATES NOT INCLUDED

April 21, 2011 3:40pm

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**SPARTAN CONTROLS**

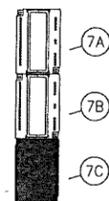
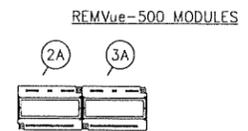
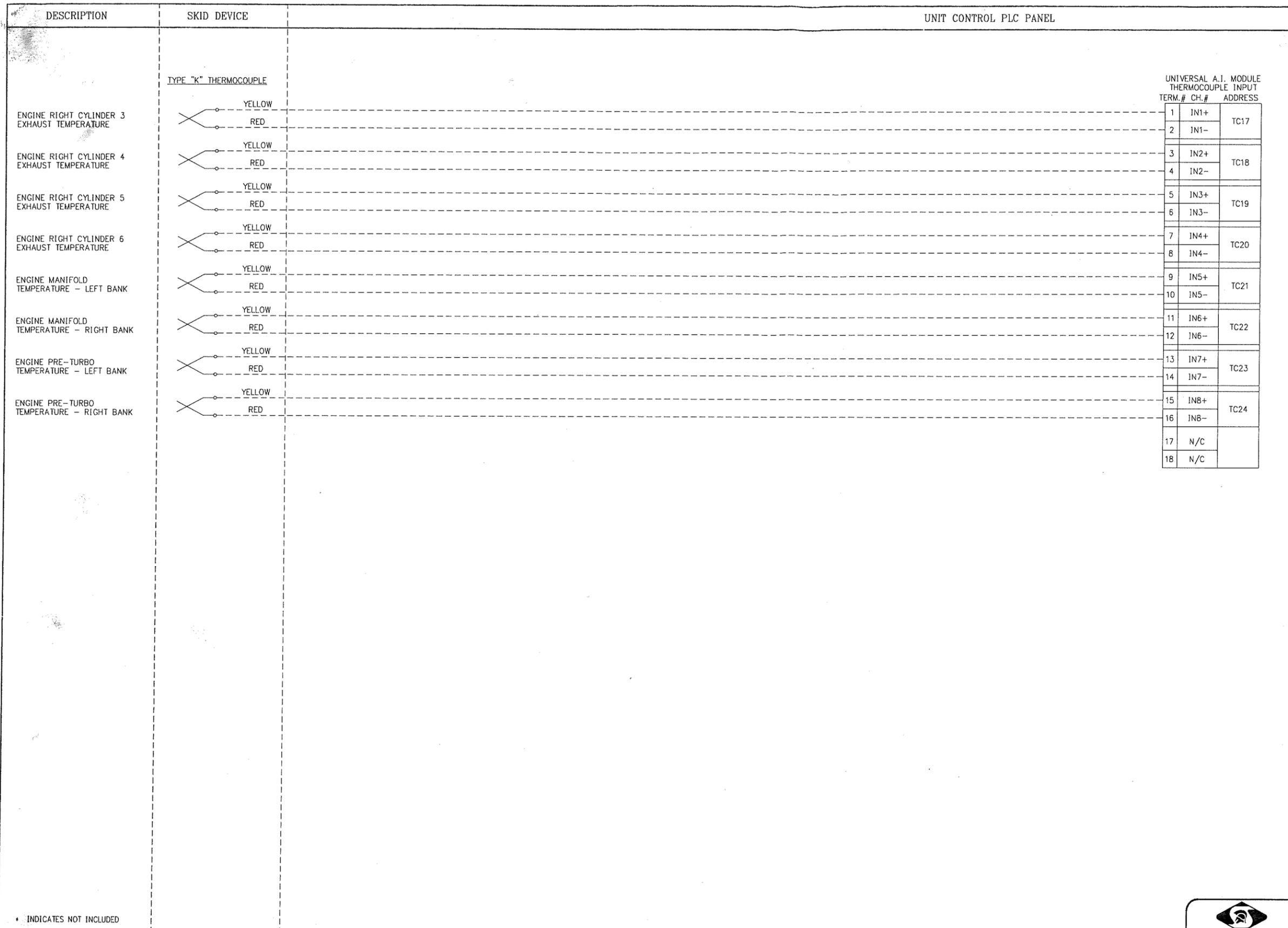
PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
INTERNAL CABINET LAYOUT

LSD: c-29-k/94-A-12      UNIT# 1

PROJECT No. PN26807      SCALE: NTS      DRAWING No. RS-26807-AA-100-01      P.O.#      REV. 1

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UNIVERSAL A.I. MODULE THERMOCOUPLE INPUT

TERM.#	CH.#	ADDRESS
1	IN1+	TC17
2	IN1-	TC17
3	IN2+	TC18
4	IN2-	TC18
5	IN3+	TC19
6	IN3-	TC19
7	IN4+	TC20
8	IN4-	TC20
9	IN5+	TC21
10	IN5-	TC21
11	IN6+	TC22
12	IN6-	TC22
13	IN7+	TC23
14	IN7-	TC23
15	IN8+	TC24
16	IN8-	TC24
17	N/C	
18	N/C	

WIRE COLOUR CODE

GROUND	GREEN
+24 VDC	RED
24 VDC SWITCHED	ORANGE
0 VDC	BLUE
0 VDC SWITCHED	MEDIUM BLUE

WIRE LEGEND

PANEL WIRE	_____
FIELD WIRE	-----

\* INDICATES NOT INCLUDED

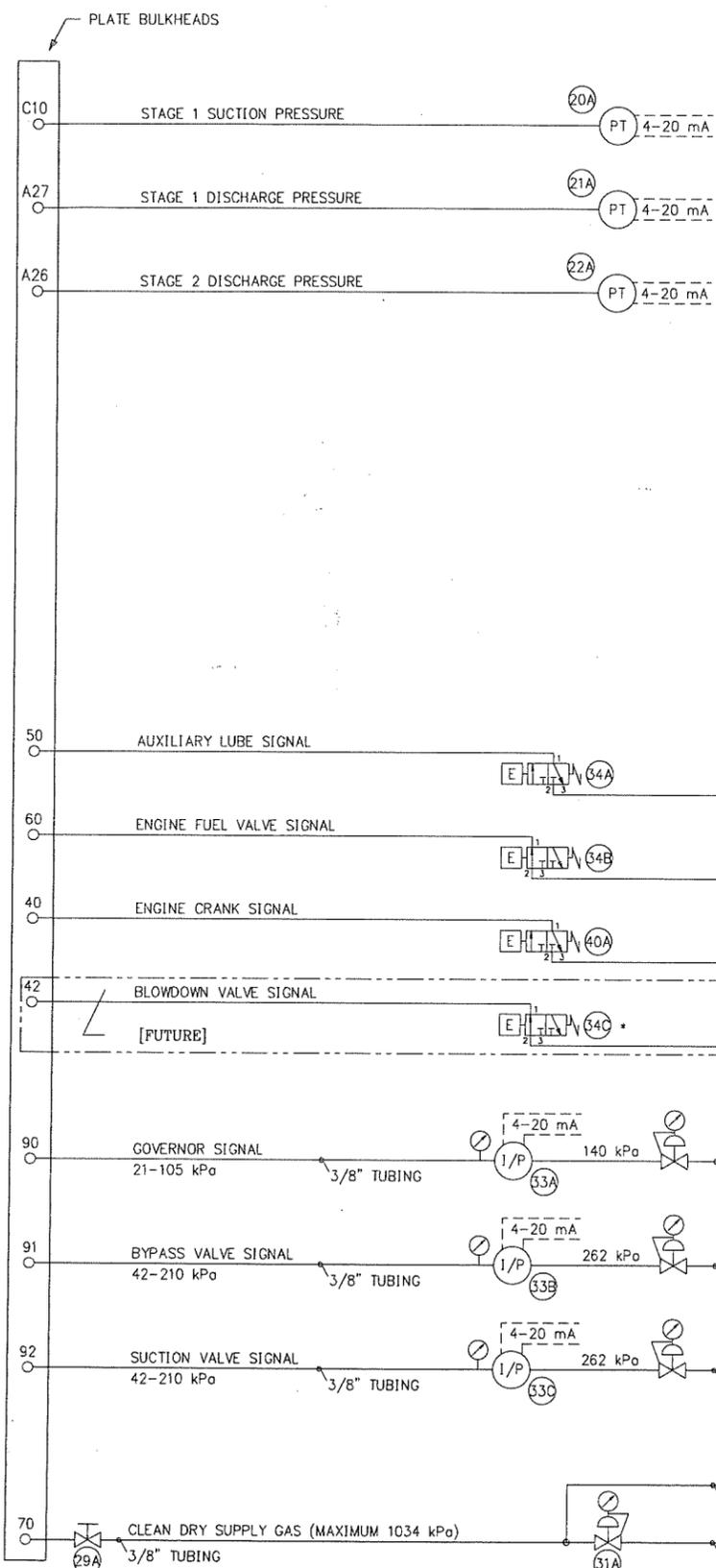
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SPARTAN CONTROLS

PROGRESS ENERGY  
BLUEBERRY  
COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
THERMOCOUPLE INPUT WIRING DIAGRAM  
LSD: c-29-K/94-A-12 UNIT# 1 P.O.#

PROJECT No. PN26807	SCALE: NTS	DRAWING No. RS-26807-AA-650-01	REV. 1
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BILL OF MATERIALS					
ITEM	STD. QTY.	QTY. INCL.	PART NUMBER	DESCRIPTION	INSTRUCTIONS
44A	0	1	M204	MAGNETIC PICKUP INTRINSICALLY SAFE	SHIPPED LOOSE
	0	1	61CMPU-25+05E	SHIELDED P/U CBLE 25 FLEX 5 STICKOUT STR	SHIPPED LOOSE
45A-B	0	2	208BG2S22A1C6	ROSEMOUNT PRESSURE TRANSMITTER/0-1034 kPa	SHIPPED LOOSE
	0	2	02088-0071-0001	ROSEMOUNT MOUNTING BRACKET	SHIPPED LOOSE
46	0	3	2007-6-K-12	PROBE 6" INS, 12" FLEX CONN	SHIPPED LOOSE
	0	1	2007-12-K-12	PROBE 12" INS, 12" FLEX CONN	SHIPPED LOOSE
	0	1	2007-14-K-12	PROBE 14" INS, 12" FLEX CONN	SHIPPED LOOSE
	0	2	1015-K	SENSOR JACK STANDARD TYPE-K	SHIPPED LOOSE
	0	2	4MSCBN-CSBT	FITTING 1/2" NPT	SHIPPED LOOSE
	0	3	S26-3/4-316-2.5	THERMOWELL 3/4" NPT 2.5" I.L. 316SS STR	SHIPPED LOOSE
	0	1	S24-3/4-316-8	THERMOWELL 3/4" NPT 8" I.L. 316SS STR	SHIPPED LOOSE
	0	1	S24-3/4-316-10	THERMOWELL 3/4" NPT 10" I.L. 316SS STR	SHIPPED LOOSE
47	0	1	61HRVHP12375-50	PYRO HARNESS, IGNITION	SHIPPED LOOSE
48	0	1	61PVHP12AF25K18P	PYRO HARNESS, ENGINE	SHIPPED LOOSE
49	0	1	10-0588	GP VIEWER EX HMI REMOTE SOFTWARE	SHIPPED LOOSE

BILL OF MATERIALS					
ITEM	STD. QTY.	QTY. INCL.	PART NUMBER	DESCRIPTION	INSTRUCTIONS
1A	1	1	10-7582	REMVue-500 1PM, 16MB, 3RS232, RS485, ETHERNET	
2A	1	1	10-7594	REMVue-500 COMBINATION I/O MODULE/12 DI/B DO/B AI/4 AO	
3A	1	1	10-7502	REMVue-500 DISCRETE INPUT MODULE/16PT	
4A	-	-	-	-	
5A	-	-	-	-	
6A	-	-	-	-	
7A-C	3	3	10-7512	REMVue-500 ANALOG UNIVERSAL MODULE/BPT/TC	
8	12	12	95033.5	WEIDMULLER FUSED TERMINAL BLOCK/KDKS1 EN	
			GDA 50MA	BUSS 50mA CERAMIC FUSE	
9	9	9	2227.6	WEIDMULLER FUSED TERMINAL BLOCK/ASK1 LD	
			GDA 250MA	BUSS 1/4 AMP CERAMIC FUSE	
			GDA 500MA	BUSS 1/2 AMP CERAMIC FUSE	
			GDA 1A	BUSS 1 AMP CERAMIC FUSE	
			GDA 1.6A	BUSS 1.6 AMP CERAMIC FUSE	
			GDA 2A	BUSS 2 AMP CERAMIC FUSE	
			GDA 5A	BUSS 5 AMP CERAMIC FUSE	
10	16	16	4674.6	WEIDMULLER TERMINAL BLOCK/SAK4 EN	
11	1	1	10215.0	WEIDMULLER DUAL STACK TERMINAL BLOCK/WDK2.5	
12	1	1	4437.6	WEIDMULLER TERMINAL BLOCK/SAK10/TS35	
13	10	10	16319.3	WEIDMULLER CARRIER TAG SHT55	
14A	1	1	-	CABLE REMVue-500/RS485	
15A	1	1	2891152	PHOENIX CONTACT ETHERNET SWITCH	
16A	1	1	800G-MPE	ALLEN-BRADLEY P.B./MUSH/MAINT/RED	
			800G-XLSA	ALLEN-BRADLEY CONTACTS/INO, INC/CLASS 1, DIV 2	
17A	1	1	10-0620	PRO-FACE HMI AGP3300-T1-D24 5.7" TFT COLOUR/24VDC	
			HMI STYLUS	HMI STYLUS (SHIPPED ON BACK SIDE OF PANEL DOOR)	
18	12	12	9532450000	WEIDMULLER FUSED TERMINAL BLOCK WITH GND/KDKS1/PE	
			GDA 50MA	BUSS 50mA CERAMIC FUSE	
			GDA 250MA	BUSS 1/4 AMP CERAMIC FUSE	
19A-B	2	2	80.010.4000.0	WIELAND TERMINAL BLOCK RELAY/24VDC/6A AC/2A DC	
20A	1	1	208BG3S22A1C6	ROSEMOUNT PRESSURE TRANSMITTER/316SS/0-4137 kPa	
21A	1	1	208BG4S22A1C6	ROSEMOUNT PRESSURE TRANSMITTER/316SS/0-5895 kPa	
22A	1	1	208BG4S22A1C6	ROSEMOUNT PRESSURE TRANSMITTER/316SS/0-10343 kPa	
23A	-	-	-	-	
24A	1	1	5412ES602416BL	EUROBEX ENCLOSURE/NEMA 4/PAINTED BLUE	
			REM BULKHEAD	ALUMINUM BULKHEAD PLATE, 2x2x1/8, 16" LONG C/W 16 HOLES	
			0000094	SPARTAN LOGO	
25A	1	1	0003123	16 1/4" LONG ILSCO BAR	
			GL 2165-1A	1" GLASTIC INSULATOR	BY MFG.
26	5	5	5532777	PHOENIX FUSED (DUAL) TERMINAL BLOCK WITH INTERNAL DIODE	
			GDA 1A	BUSS 1 AMP CERAMIC FUSE	
27A-B	2	2	-	ETHERNET CABLE	BY MFG.
28	3	3	USM1	FERRAZ SHAWMUT FUSED TERMINAL BLOCK/TS35	
			KTk 10A	BUSS KTK 10A FUSE	
			KTk 15A	BUSS KTK 15A FUSE	
29A	1	1	SS-43GS6	SWAGelok 3/8" BALL VALVE/316SS	BY MFG.
30A	1	1	750XBH-24D	MAGNECRAFT & STRUTHERS-DUNN RELAY/H.S./24VDC/12AMP/DPDT	
			70-464-1	MAGNECRAFT RELAY BASE	
			1N4007	DIODE	
31A	1	1	67CF-1663-352560	FISHER REGULATOR/0-875 kPa/VENTED BONNET	
			11B8579X042	FISHER 2" GAUGE/0-1100 kPa	
32A	-	-	-	-	
33A-C	3	3	12P-X2BX	FISHER I/P TRANSDUCER/14-231 kPa	
			PEM1405	WINTER 2" DRY GAUGE/0-420 kPa	
			67CF-1663-329150	FISHER REGULATOR/0-420 kPa/VENTED BONNET	
			PEM1405	WINTER 2" DRY GAUGE/0-420 kPa	
			MF90-1	KILLARK 1/2" CONDUIT ELBOW	
34A-C	3	2	EF8320G202-24	ASCO SOLENOID VALVE/24VDC	
35A	1	1	80.010.4005.0	WIELAND TERMINAL BLOCK RELAY/24VDC/20 mA	
36A	-	-	-	-	
37	15	15	WT-57.867.0000.0010	WIELAND DISCRETE NON-INCENDIVE BARRIER	
38	-	-	-	-	
39A	1	1	21.311.1253.0	WIELAND 6 EDS TERMINAL STRIP/12 POLE	
40A	1	1	EF8320G231-24	ASCO SOLENOID VALVE/24VDC	
41A	1	1	0000083	6" LONG ILSCO BAR	
			GROUND LUG MEDIUM	GROUND LUG 2/0-14 GA.	
			GL 2165-1A	1" GLASTIC INSULATOR	BY MFG.
42A	1	1	1/2 WATT 1K3	1300 OHM RESISTOR	
43A	1	1	7914760001	WEIDMULLER FUSE CONTAINER/DIN RAIL MOUNT	
			0002736	FUSE KIT REMVue-500	

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## SPARTAN CONTROLS

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
PNEUMATIC LOGIC AND BILL OF MATERIALS

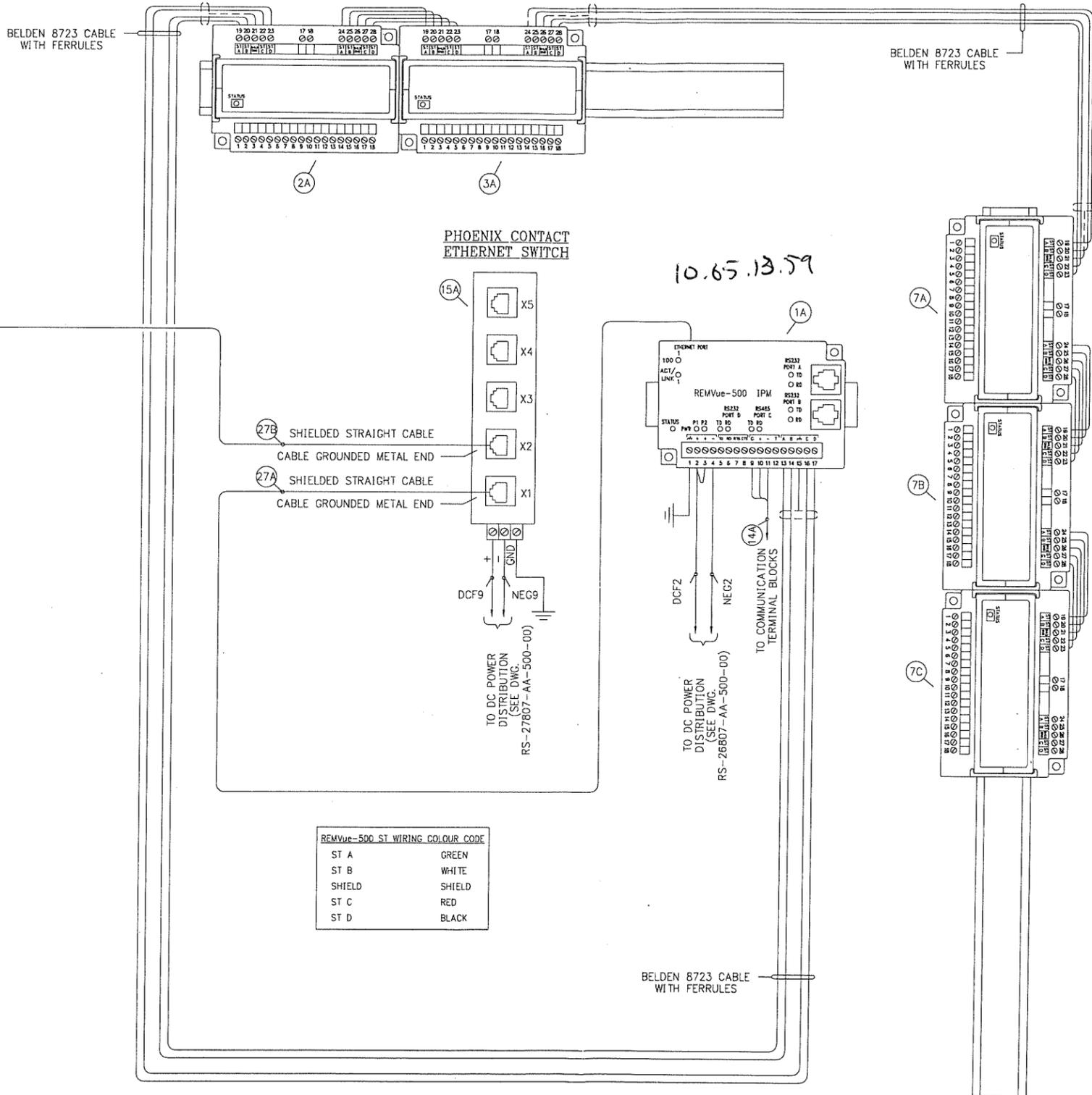
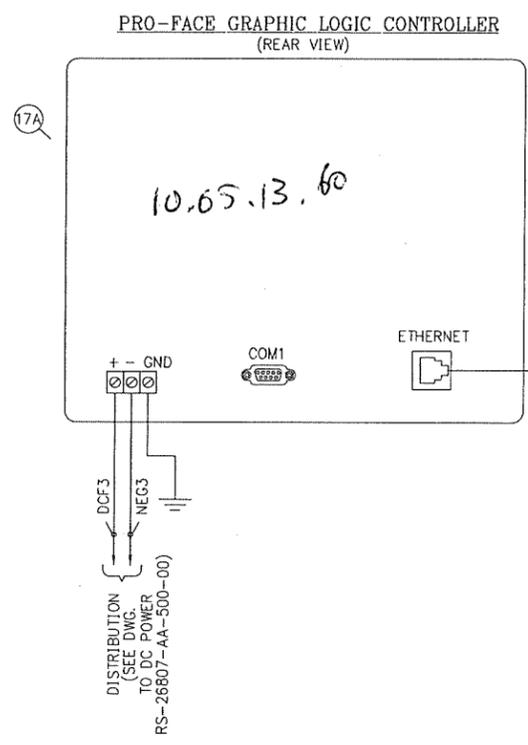
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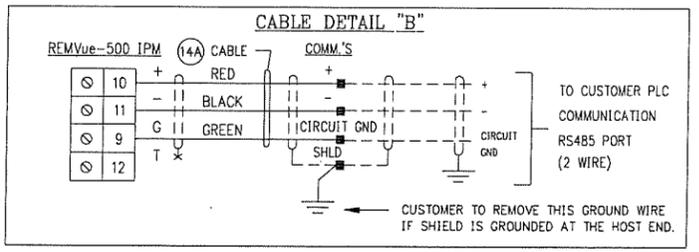
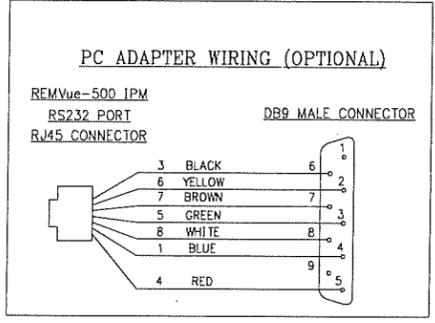


WIRE COLOUR CODE	
GROUND	GREEN
+24 VDC	RED
24 VDC SWITCHED	ORANGE
0 VDC	BLUE
0 VDC SWITCHED	MEDIUM BLUE

WIRE LEGEND	
PANEL WIRE	—————
FIELD WIRE	- - - - -



REMVue-500 ST WIRING COLOUR CODE	
ST A	GREEN
ST B	WHITE
SHIELD	SHIELD
ST C	RED
ST D	BLACK



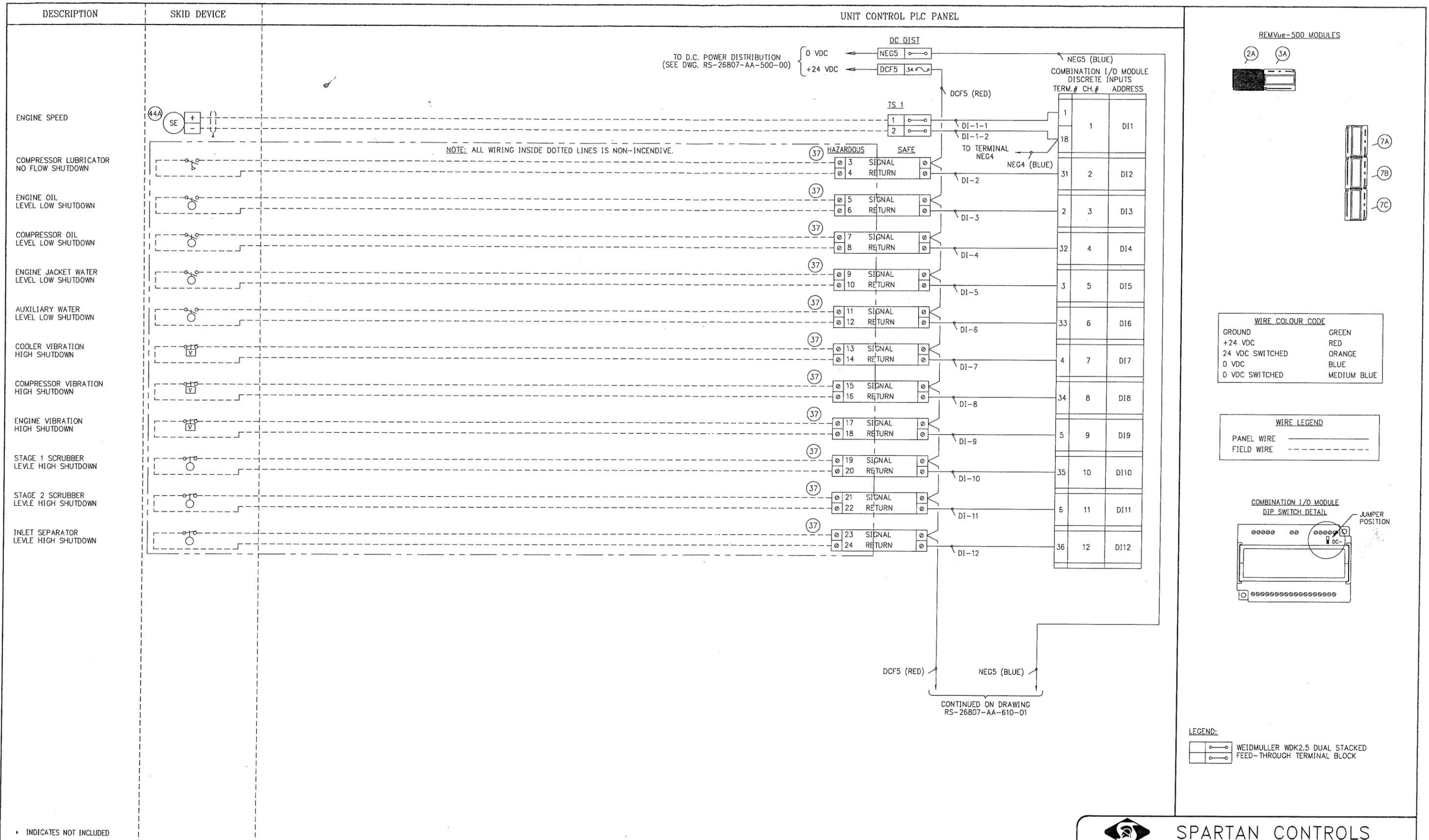
A DAISY CHAIN WIRING CONFIGURATION SHOULD BE USED TO CONNECT THE HOST AND SLAVE DEVICES. ALL CABLE SHIELDS SHOULD BE CONNECTED AND GROUNDED AT ONE END ONLY (AT THE HOST END IF POSSIBLE). 150 OHM TERMINATION RESISTORS SHOULD BE INSTALLED AT THE HOST AND THE LAST SLAVE ON THE BUS. THE REMVue-500 IPM HAS INTERNAL TERMINATION COMPONENTS (150 OHM RESISTOR AND 0.1uF CAP. IN SERIES). TIE TERMINAL T (12) TO RS485- (11) TO UTILIZE THE INTERNAL TERMINATION.

COMMUNICATIONS		
ADDR	BAUD	CONFIG
<del>1</del>	9600	N,8,1

**SPARTAN CONTROLS**  
 PROGRESS ENERGY  
 BLUEBERRY  
 COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
 REMVue-500 WIRING DETAILS  
 LSD: c-29-K/94-A-12 UNIT# 1  
 PROJECT No. PN26807 SCALE: NTS DRAWING No. RS-26807-AA-500-01 REV. 1

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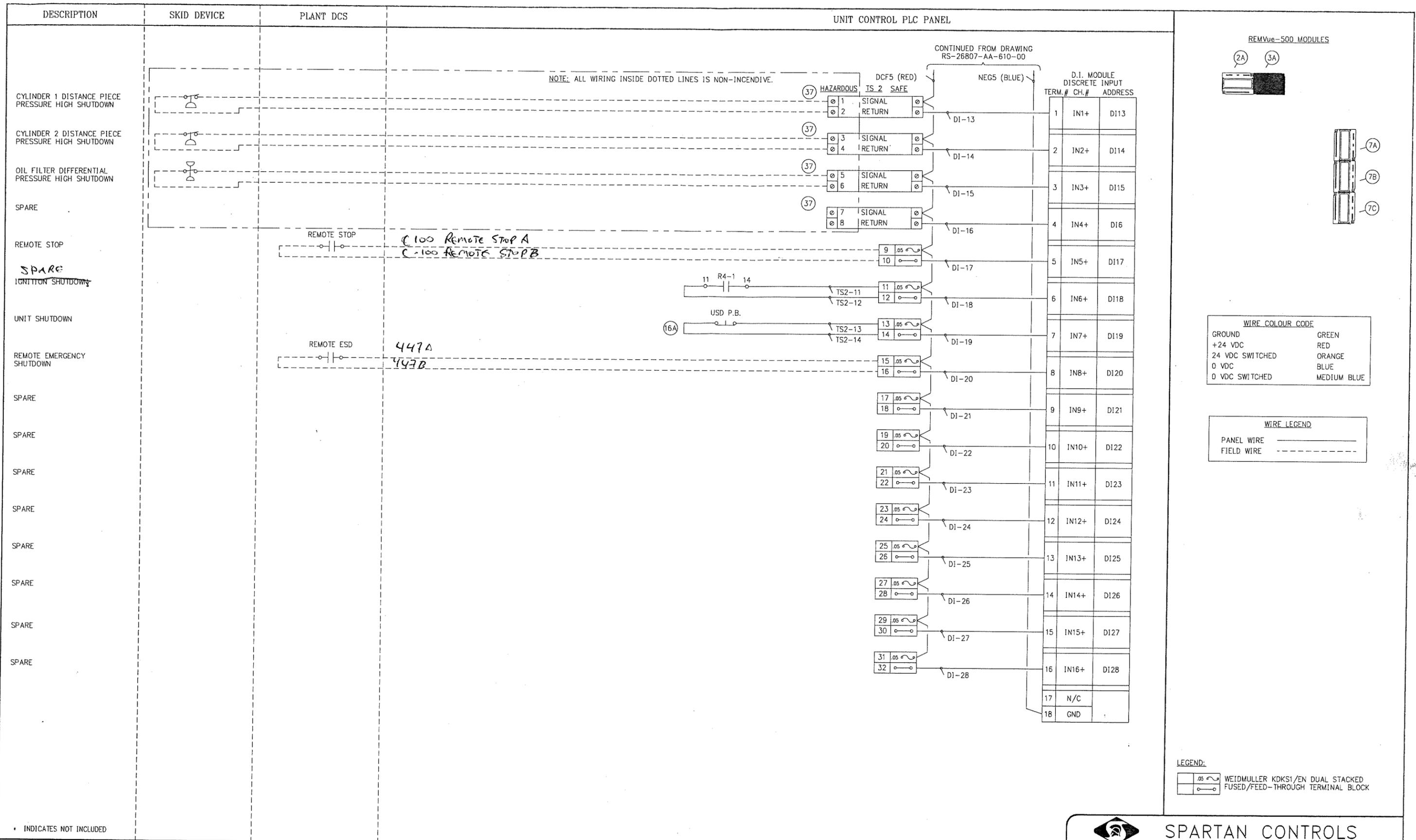
**SPARTAN CONTROLS**

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVUE-500S)  
DISCRETE INPUT WIRING DIAGRAM

LSD: c-29-K/94-A-12 UNIT# 1 P.O.#

PROJECT No. PN26807 SCALE: NTS DRAWING No. RS-26807-AA-610-00 REV. 1



April 21 2011 3:41pm

REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
1	SPARTAN AS BUILT	14 JUN 11	RDW	CBB	CBB	CBB
0	ISSUED FOR CONSTRUCTION	25 MAY 11	RDW	CBB	CBB	CBB
A	ISSUED FOR APPROVAL	21 APR 11	RDW	CBB	CBB	CBB

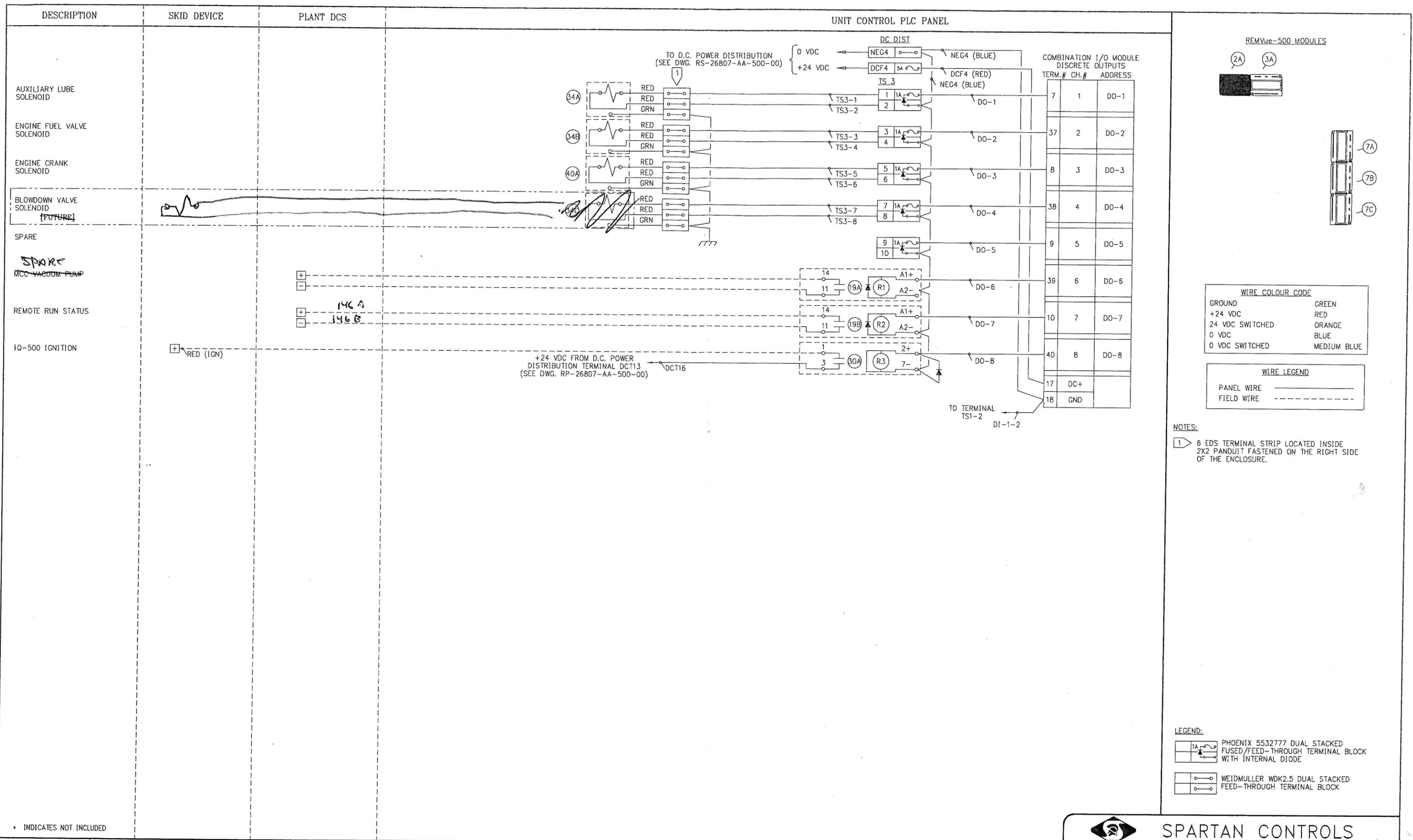
## SPARTAN CONTROLS

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
DISCRETE INPUT WIRING DIAGRAM

LSD: c-29-k/94-A-12      UNIT# 1

PROJECT No. PN26807      SCALE: NTS      DRAWING No. RS-26807-AA-610-01      REV. 1



\* INDICATES NOT INCLUDED

April 21, 2011 3:41pm

DRAWING No.	REFERENCE DRAWINGS	REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
		1	SPARTAN AS BUILT	14 JUN 11	RDW	CBB	CBB	CBB
		0	ISSUED FOR CONSTRUCTION	25 MAY 11	RDW	CBB	CBB	CBB
		A	ISSUED FOR APPROVAL	21 APR 11	RDW	CBB	CBB	CBB

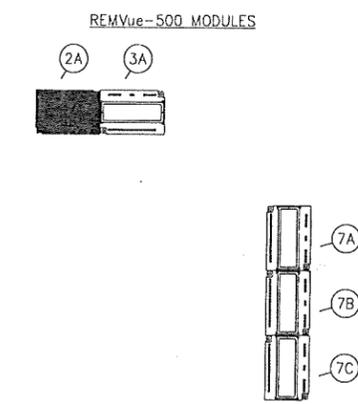
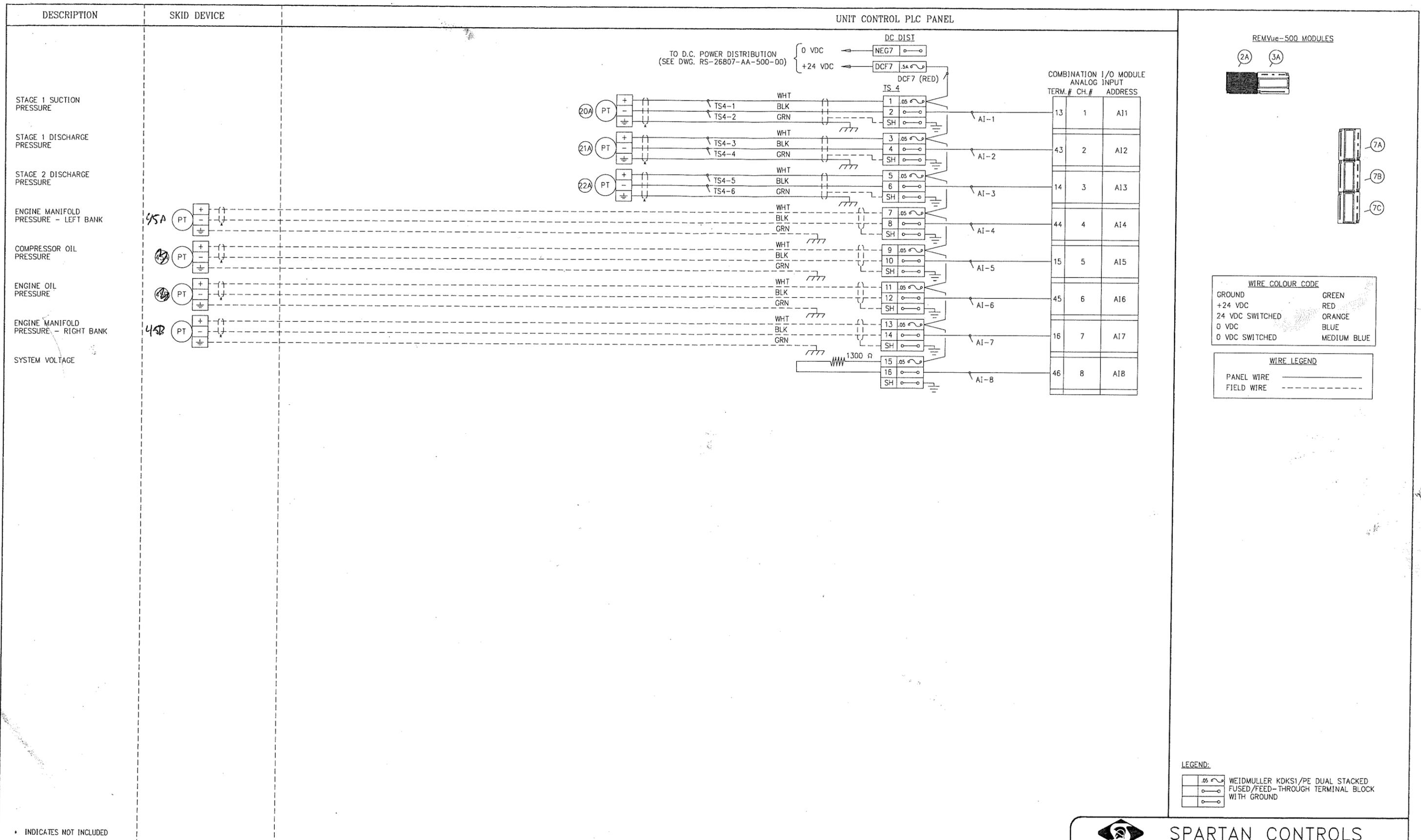
**SPARTAN CONTROLS**

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
DISCRETE OUTPUT WIRING DIAGRAM

LSD:c-29-K/94-A-12 UNIT# 1

PROJECT No. PN26807 SCALE: NTS DRAWING No. RS-26807-AA-620-00 REV. 1

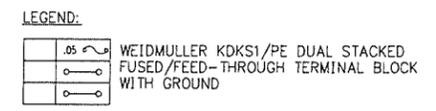


**WIRE COLOUR CODE**

GROUND	GREEN
+24 VDC	RED
24 VDC SWITCHED	ORANGE
0 VDC	BLUE
0 VDC SWITCHED	MEDIUM BLUE

**WIRE LEGEND**

PANEL WIRE	—————
FIELD WIRE	- - - - -



\* INDICATES NOT INCLUDED

April 21 2011 3:41pm

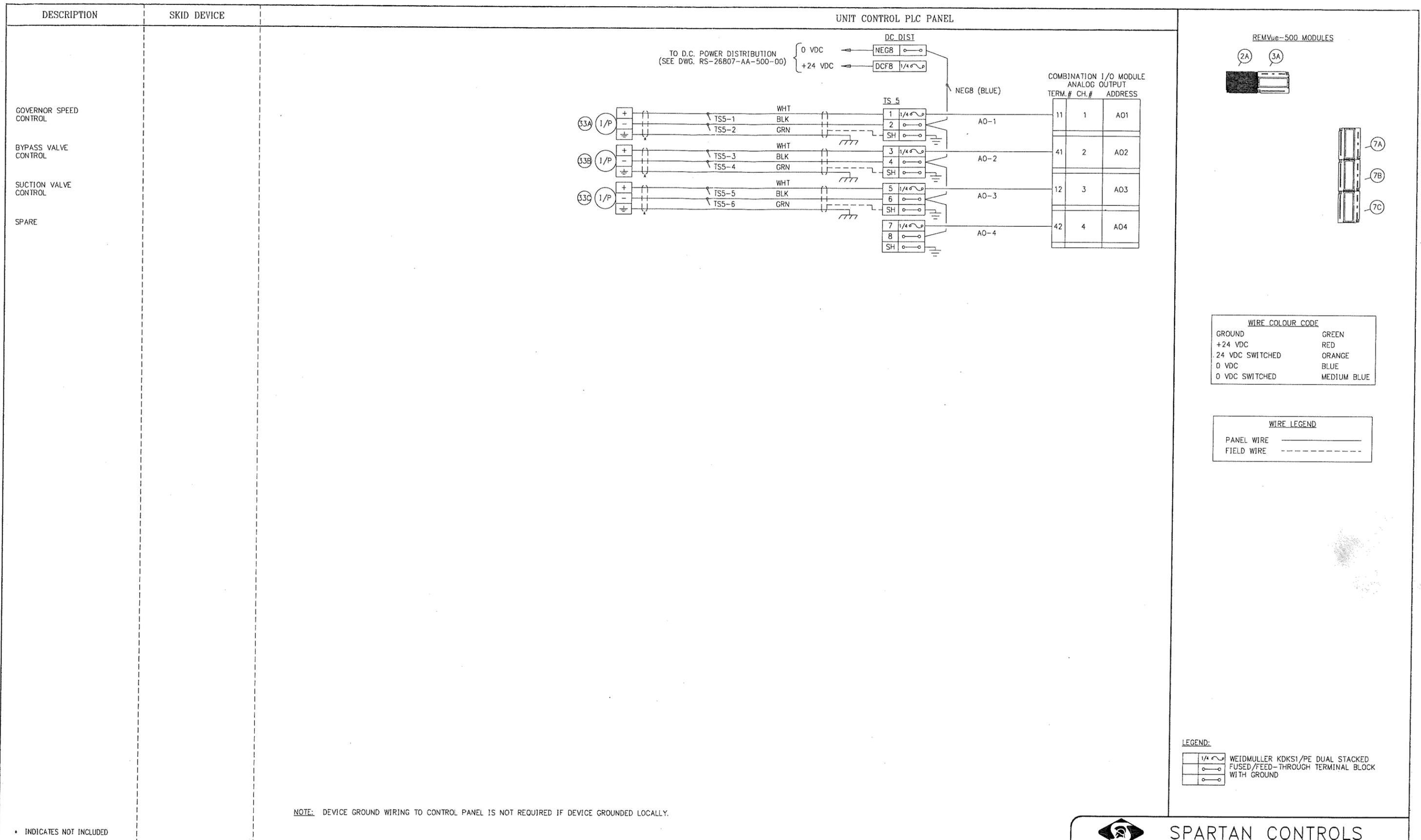
REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
1	SPARTAN AS BUILT	14 JUN 11	RDW	CBB	CBB	CBB
0	ISSUED FOR CONSTRUCTION	25 MAY 11	RDW	CBB	CBB	CBB
A	ISSUED FOR APPROVAL	21 APR 11	RDW	CBB	CBB	CBB

**SPARTAN CONTROLS**

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
ANALOG INPUT WIRING DIAGRAM  
UNIT# 1

PROJECT No. PN26807 SCALE: NTS DRAWING No. RS-26807-AA-630-00 REV. 1



\* INDICATES NOT INCLUDED

NOTE: DEVICE GROUND WIRING TO CONTROL PANEL IS NOT REQUIRED IF DEVICE GROUNDED LOCALLY.

April 21 2011 3:41pm

REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
1	SPARTAN AS BUILT	14 JUN 11	RDW	CBB	CBB	CBB
0	ISSUED FOR CONSTRUCTION	25 MAY 11	RDW	CBB	CBB	CBB
A	ISSUED FOR APPROVAL	21 APR 11	RDW	CBB	CBB	CBB

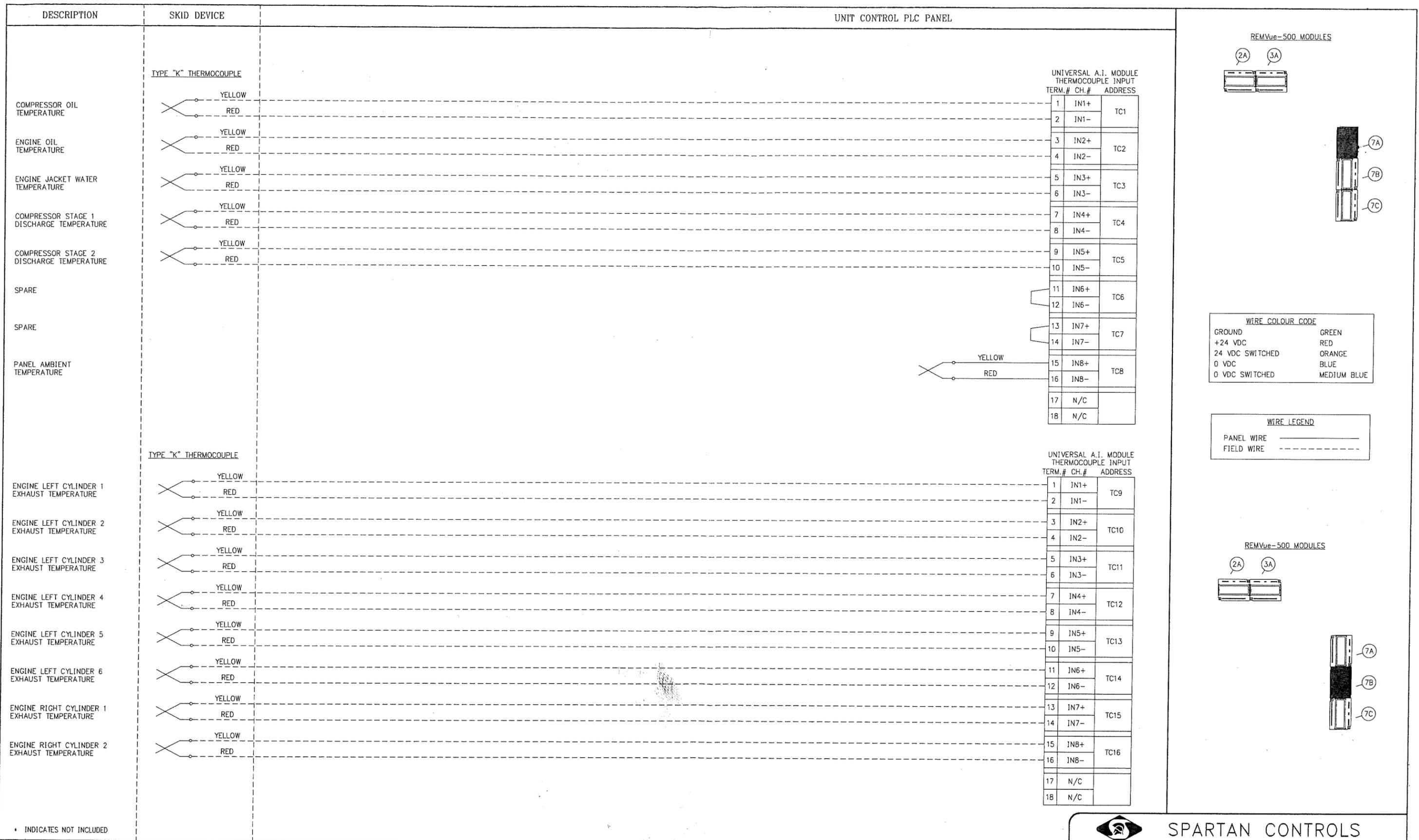
**SPARTAN CONTROLS**

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
ANALOG OUTPUT WIRING DIAGRAM

LSD: c-29-K/94-A-12      UNIT# 1      P.O.#

PROJECT No. PN26807	SCALE: NTS	DRAWING No. RS-26807-AA-640-00	REV. 1
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\* INDICATES NOT INCLUDED

April 21 2011 3:41pm

REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
1	SPARTAN AS BUILT	14 JUN 11	RDW	CBB	CBB	CBB
0	ISSUED FOR CONSTRUCTION	25 MAY 11	RDW	CBB	CBB	CBB
A	ISSUED FOR APPROVAL	21 APR 11	RDW	CBB	CBB	CBB



**SPARTAN CONTROLS**

PROGRESS ENERGY  
BLUEBERRY

COMPRESSOR UNIT CONTROL PANEL (REMVue-500S)  
THERMOCOUPLE INPUT WIRING DIAGRAM

LSD: c-29-K/94-A-12 UNIT# 1 P.O.#

PROJECT No. PN26807 SCALE: NTS DRAWING No. RS-26807-AA-650-00 REV. 1

THIS DRAWING, INCLUDING THE INFORMATION IT BEARS, IS THE PROPERTY OF SPARTAN CONTROLS AND MUST BE HELD IN STRICT CONFIDENCE AND PROPERLY SAFEGUARDED BY THE RECIPIENT AT ALL TIMES.