

DE∨ICE LEGEND

ARB	ALARM RESET BUTTON
B-EPM	BUS ELECTRONIC POWER METER - SHARK
ESB	EMERGENCY STOP BUTTON
EZGEN	GENERATOR CONTROL PACKAGE
GLS	GENERATOR LOCKOUT SWITCH
GPR	GENERATOR PROTECTIVE RELAY (DISABLED)
QIU	OPERATOR INTERFACE UNIT
LTB	LAMP TEST BUTTON
SMS	MASTER CONTROL SWITCH (AUTO-MANUAL)
SS-EPM	STATION SERVICE POWER METER - SHARK
42××	CUNTACTUR
42CS	CONTACTOR CONTROL SWITCH
52××	CIRCUIT BREAKER

	GENERATOR ANNUNCIATOR LEGEND										
1	ENGINE RUN	13	NOT IN AUTO POSITION								
2	ENGINE IDLE	14	GENERATOR BREAKER OPEN								
З	ENGINE ALARM	15	FAIL TO SYNCHRONIZE								
4	LOW DIL PRESSURE	16	QVERCURRENT								
5	LQW QIL LEVEL	17	UNDER VOLTAGE								
6	HIGH DIL TEMPERATURE	18	QVER VQLTAGE								
7	HIGH WATER TEMPERATURE	19	UNDER FREQUENCY								
8	QVERSPEED	20	QVER FREQUENCY								
9	□VERCRANK	21	LOSS OF EXCITATION								
10	COOLDOWN/LOCKOUT	22	REVERSE POWER								
11	BATTERY CHARGER FAILURE	23	CONTACTOR OPEN								
12	NORMAL STOP	24	CONTACTOR CLOSED								
	MASTER ANNUN	CIATO	R LEGEND:								
1	FIRE ALARM LIGHT	11	HEAT RECOVERY NO LOAD								
2	EMERGENCY STOP LIGHT	12	HEAT RECOVERY LOSS OF PRESSURE								
3	SYSTEM LOW WATER LEVEL LIGHT	13	HEAT RECOVERY LOSS OF FLOW								
4	LOW FUEL LEVEL LIGHT	14	SPARE 1								
5	BUS UNDER/OVER VOLTAGE LIGHT	15	SPARE 2								
6	BUS UNDER/OVER FREQUENCY LIGHT	16	SPARE 3								

17

18

19

FEEDER BREAKER OPEN

FEEDER BREAKER CLOSED

20 STATION SERVICE BREAKER CLOSED

STATION SERVICE BREAKER OPEN

7

8

9

FEEDER BREAKER OVERCURRENT LIGHT

PRIMARY PLC FAILURE

10 BACKUP PLC FAILURE

OPERATING ON BACKUP PLC

1	PHYSICAL LAYOUT
2	SINGLE LINE DIAGRAM
3	BLANK
4A	GENERATOR 1 AC SCHEMATIC
4B	GENERATOR 2 AC SCHEMATIC
4C	GENERATOR 3 AC SCHEMATIC
4 D	GENERATOR 4 AC SCHEMATIC
5	MASTER AC & DISTRIBUTION SCHEMATIC
6A	GENERATOR 1 DC CONTROL SCHEMATIC
6B	GENERATOR 2 DC CONTROL SCHEMATIC
60	GENERATOR 3 DC CONTROL SCHEMATIC
6D	GENERATOR 4 DC CONTROL SCHEMATIC
7A	GENERATOR 1 DC CONTROL SCHEMATIC
7B	GENERATOR 2 DC CONTROL SCHEMATIC
70	GENERATOR 3 DC CONTROL SCHEMATIC
7 D	GENERATOR 4 DC CONTROL SCHEMATIC
8A	GENERATOR 1 DC CONTROL SCHEMATIC
8B	GENERATOR 2 DC CONTROL SCHEMATIC
80	GENERATOR 3 DC CONTROL SCHEMATIC
8D	GENERATOR 4 DC CONTROL SCHEMATIC

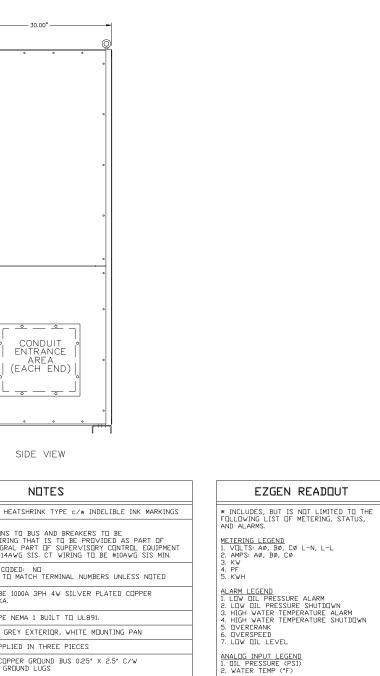
DRAWING LEGEND

		DRAWING LEGEND
	9	MASTER DC CONTROL SCHEMATIC
	10	MASTER DC CONTROL SCHEMATIC
	11	MASTER DC CONTROL SCHEMATIC
	12	BLANK
	13	BLANK
	14	PLC COMMUNICATION DIAGRAM
	15	COMMUNICATION NETWORK DIAGRAM
	16	EPM MQNITORING & SYSTEM CQMMUNICATION DIAGRAM
	17	HEATER & LIGHTING CONTROL SCHEMATIC
	18	CONTROL SWITCH TARGET DIAGRAM
	19	NAMEPLATE DETAILS
_	20	INTERCONNECTION DIAGRAM

1	WIRE MARKERS: HE
2	WIRE TYPE: ALL CONNECTIONS #14AWG SIS. WIRIN OR IS AN INTEGRA SHALL BE #18-14A
3	WIRING CQLQR CQI WIRE NUMBERS TQ
4	LOAD BUS TO BE : BRACED AT 35KA.
5	ENCLOSURE TYPE I
6	PAINT ASA #61 GR
7	ENCLOSURE SUPPL
8	FULL LENGTH CQP (6) #6-250MCM GR
9	POWER CABLES: UT FRONT AND REAR
10	LAMICOIDS WHITE
11	CABLE LUG SIZES: GEN 1, 2: (1) #8 - GEN 3, 4: (1) #8 - LUAD: (1) #8 - 60 SS: (1) #12 - 3/0
L	

1.00" --

CROOKED CREEK SWITCHGEAR UPGRADE, 25 SHEETS TOTAL. NOTE THAT THESE DRAWINGS SHOW A PRIOR UPGRADE TO EXISTING SWITCHGEAR THAT IS SIMILAR TO THE UPGRADE OF THE EXISTING SWITCHGEAR IN THE COMMUNITIES FOR THIS PROJECT. THEY ARE PROVIDED FOR REFERENCE ONLY TO SHOW THE TYPE AND EXTENT OF MODIFICATIONS.



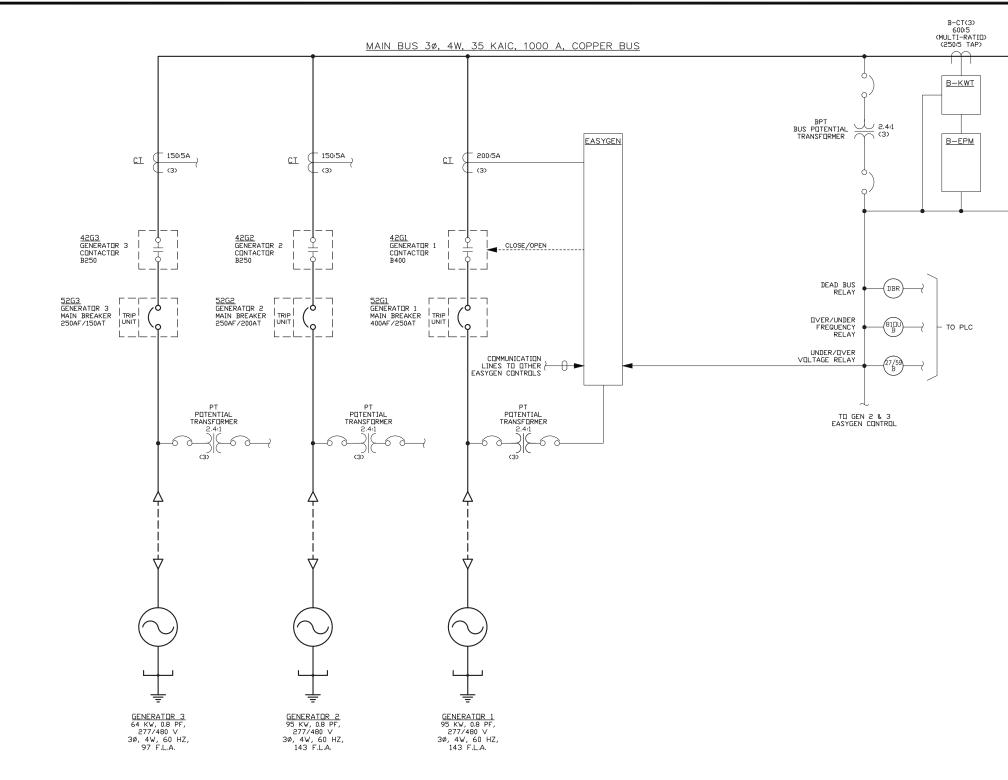
JTILITY FROM BOTTOM; GEN & LOAD TOP. ACCESS REQUIRED.

C/W BLACK LETTERS, MECHANICALLY ATTACHED

S: - 600MCM Cu/AL PER PHASE - 350MCM Cu/AL PER PHASE 500MCM Cu/AL PER PHASE '0 Cu/AL PER PHASE

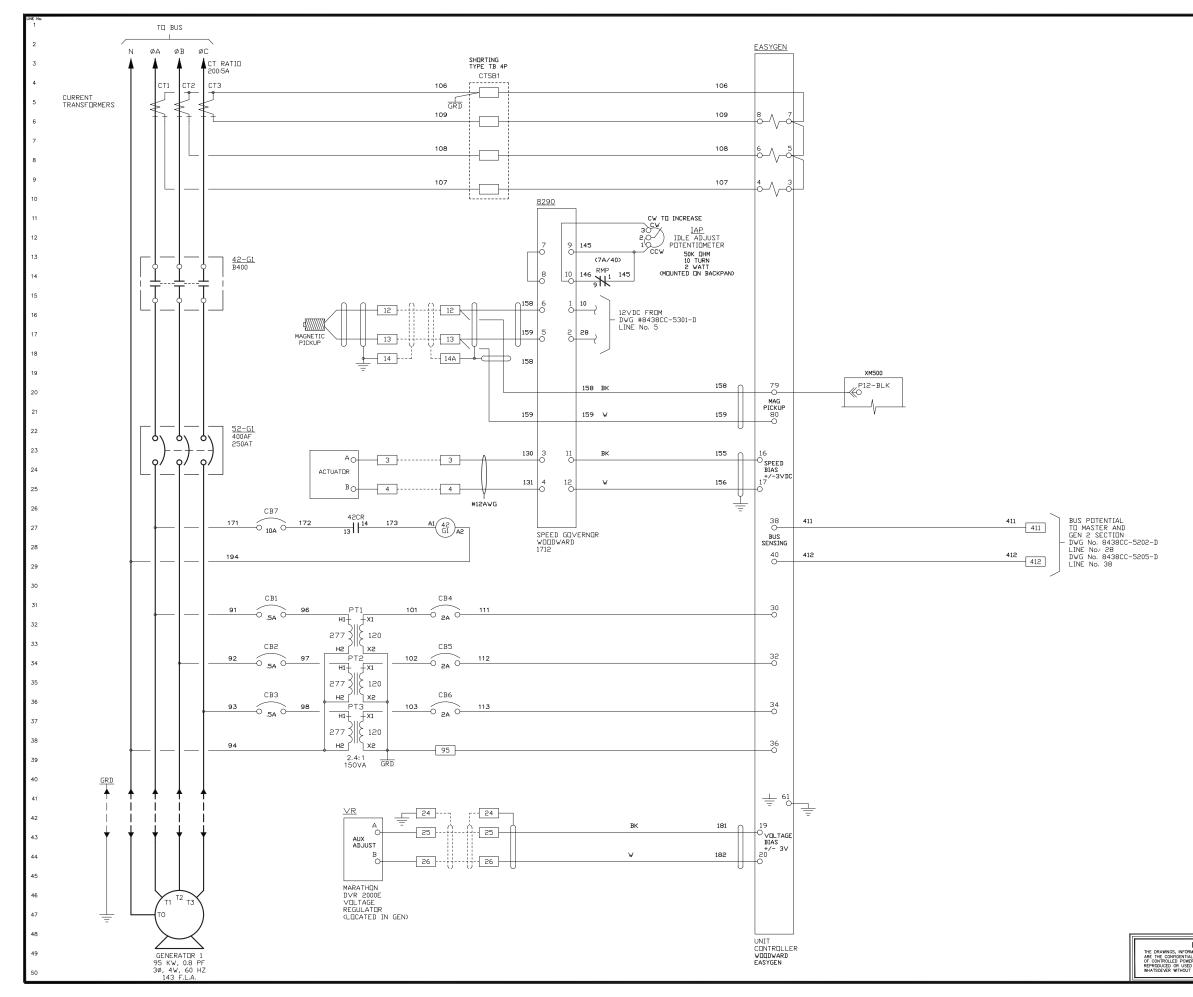
		<u> </u>							
		В	09-21-16	AS B	UILT				RAC
		REV.	DATE			DESCRIP	TION		BY
		PU	RCHASE ORDE	R No.	ERNIE I	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC
		TITLE	GENERAT	OR CO	ONTROL F	ANEL ELEV	ATION VIEW	, OUTLINE DIAGR	AM
THE	SCALE: NONE DATE: 08-23-16 DWN. BY: GPN						DWN. BY: GPN	_	
CT.	DWG.	DWG. No: 8438CC-4101-D SHEET: 1 OF 1 CKD. BY: JMD							
PE JOB: CROOKED CREEK EASYGEN UPGRADE									
THE DRAWINGS, INFORM ARE THE CONFIDENTIAL OF CONTROLLED FOWER REPRODUCED OR USED WHATSOEVER WITHOUT	E			C	BOTHELL,	ed Pov WASHINGT	ACTURED BY VER, INC. TON USA rolledpowerinc.com	m	

<u>MISC. LEGEND</u> 1. ENGINE HOURS 2. ENGINE START COUNTER 3. MAINTENANCE CALL

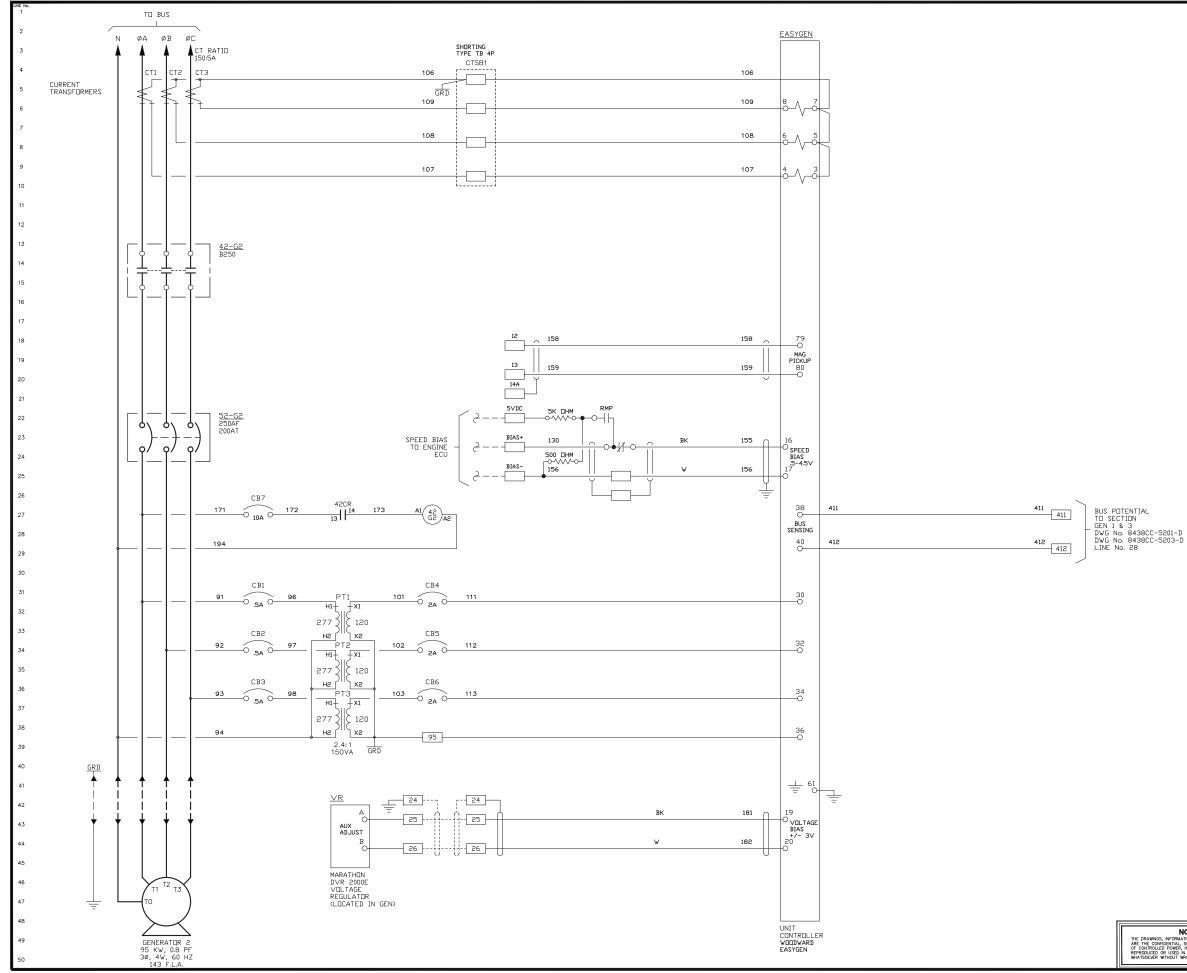


NOTE: GENERATORS 2 & 3 SIMILAR TO GENERATOR 1.

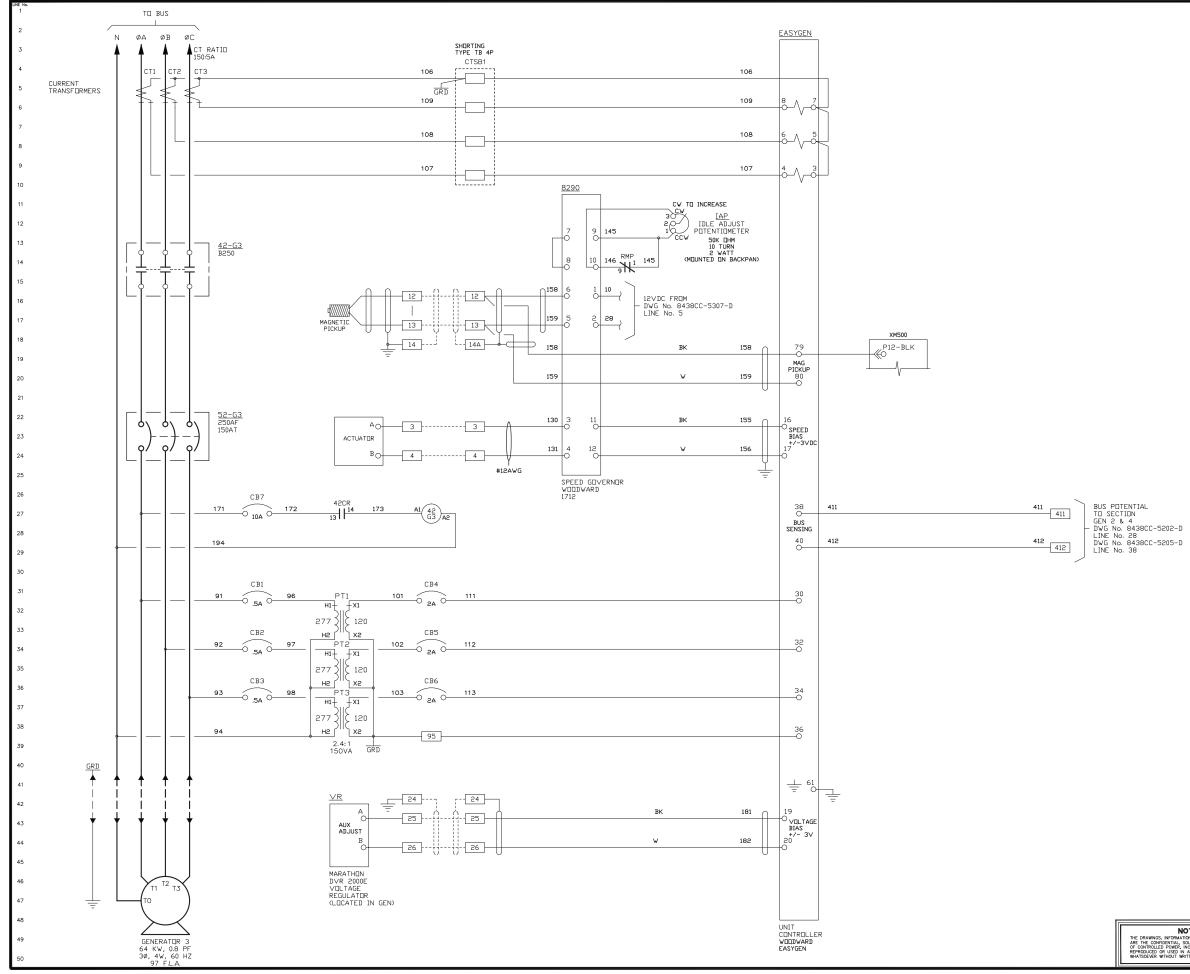
SS-EPM	<u></u>	
52SS [] [STATION TRIP MAIN BREAKER UNIT] 30AF/25AT L L	C 52F FEEDER 400AF/250AT UNIT C 400AF/250AT 400AF/250AT	
ŝ		
	B 09–21–16 AS BUILT REV. DATE DESCRIPTION	RAC
	PURCHASE ORDER NO. ERNIE BAUMGARTINER CONTROLLED POWER JOB I TITLE: GENERATOR SINGLE LINE, SCHEMATIC DIAGRAM SCALE: NONE DATE: 08-23-16 DWN. BY: GP DWG. No: 8438CC-5101-D SHEET: 1 OF 1 CKD. BY: JM	N
NOTICE INCN AND SUBJECT MATTER HEREOF SOLE AND EXCLUSIVE PROPERTY INC, AND ARE NOT TO BE COREGE WHITEN CONSENT OR DIRECTION.	JOB: CROOKED CREEK EASYGEN UPGRADE ENGINEERED & MANUFACTURED BY Controlled Power, Inc. BOTHELL, WASHINGTON USA (425)-485-1778 www.controlledpowerinc.	com



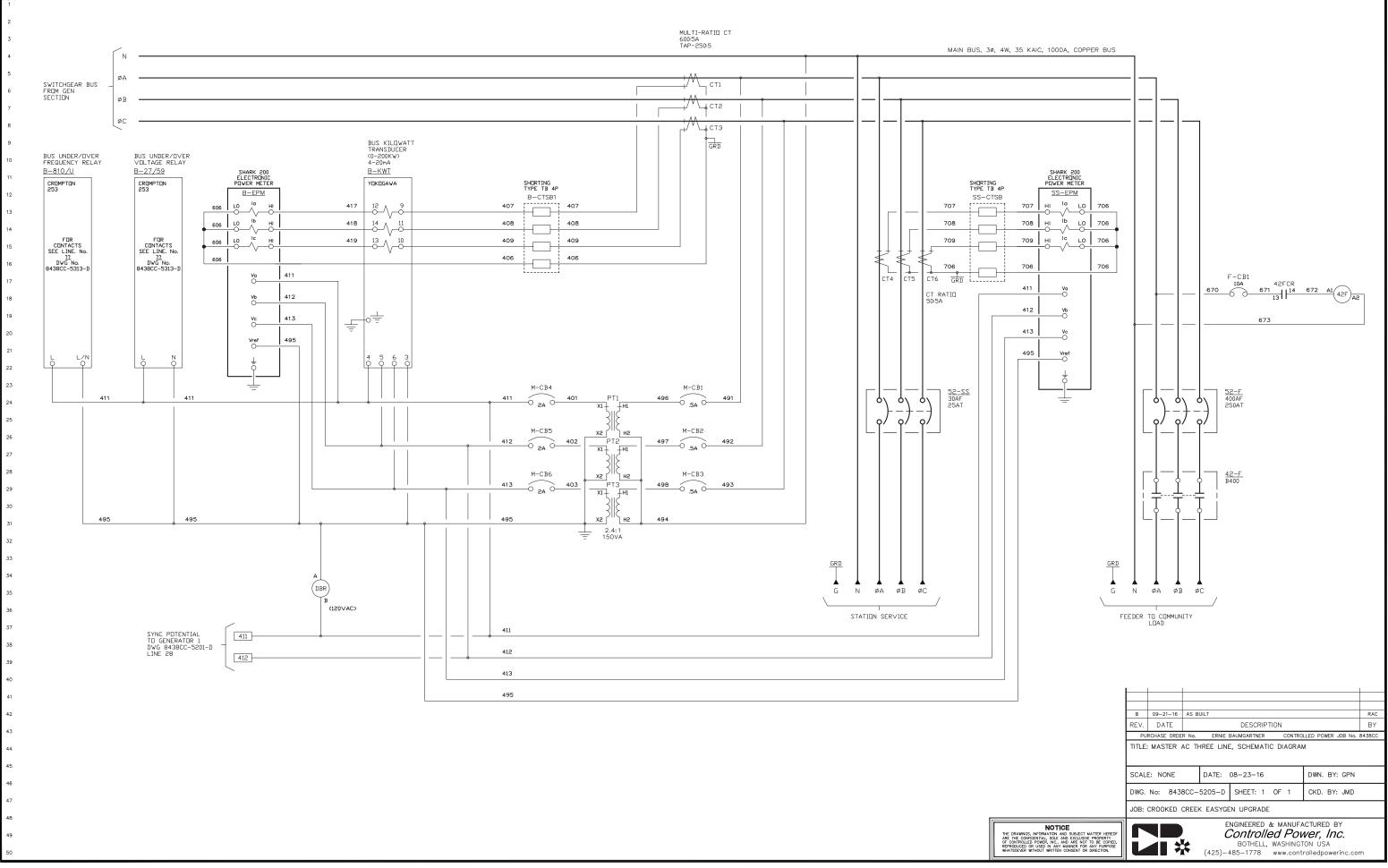
	В	09-21-16	AS BUILT						
	REV.	DATE			DESCRIP	TION		BY	
	PU	RCHASE ORDE	R No.	ERNIE I	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC	
	TITLE: GENERATOR 1 AC THREE LINE, SCHEMATIC DIAGRAM								
	SCAL	E: NONE		DATE:	08-23-16		DWN. BY: GPN		
	DWG.	No: 843	BCC-	5201-D	SHEET: 1	OF 1	CKD. BY: JMD		
	JOB:	CROOKED	CREEI	K EASYGE	N UPGRADE	5			
NOTICE ORMATICN AND SUBJECT MATTER HEREOF TIAL, SOLE AND EXCLUSIVE PROPERTY WER, INC., AND ARE NOT TO BE COPIED. SED IN ANY MANNER FOR ANY PURPOSE UIT WRITTEN CONSENT OR DIRECTION.	Ð		ENGINEERED & MANUFACTURED BY Controlled Power, Inc. BOTHELL, WASHINGTON USA (425)-485-1778 www.controlledpowerinc.com						

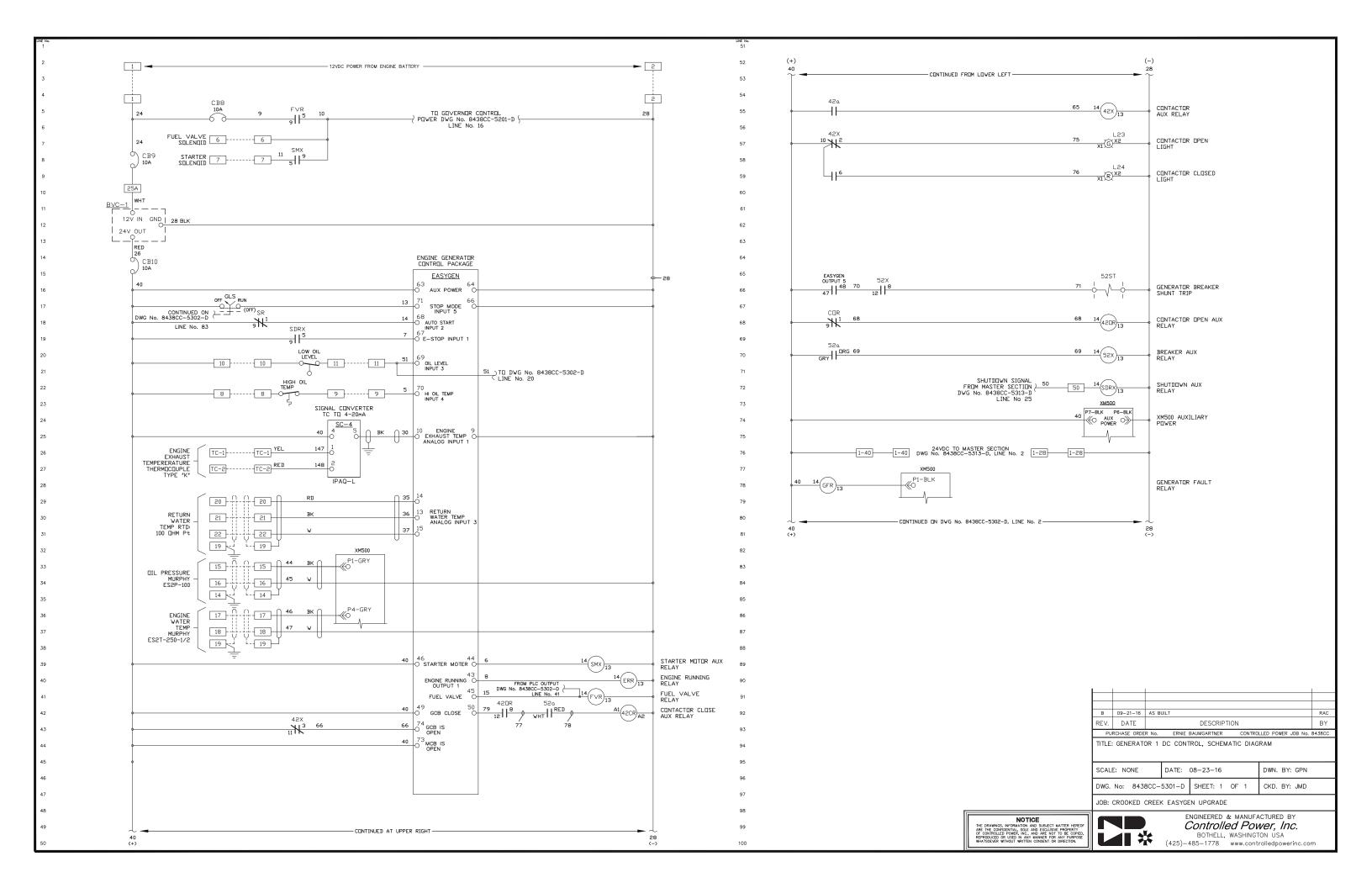


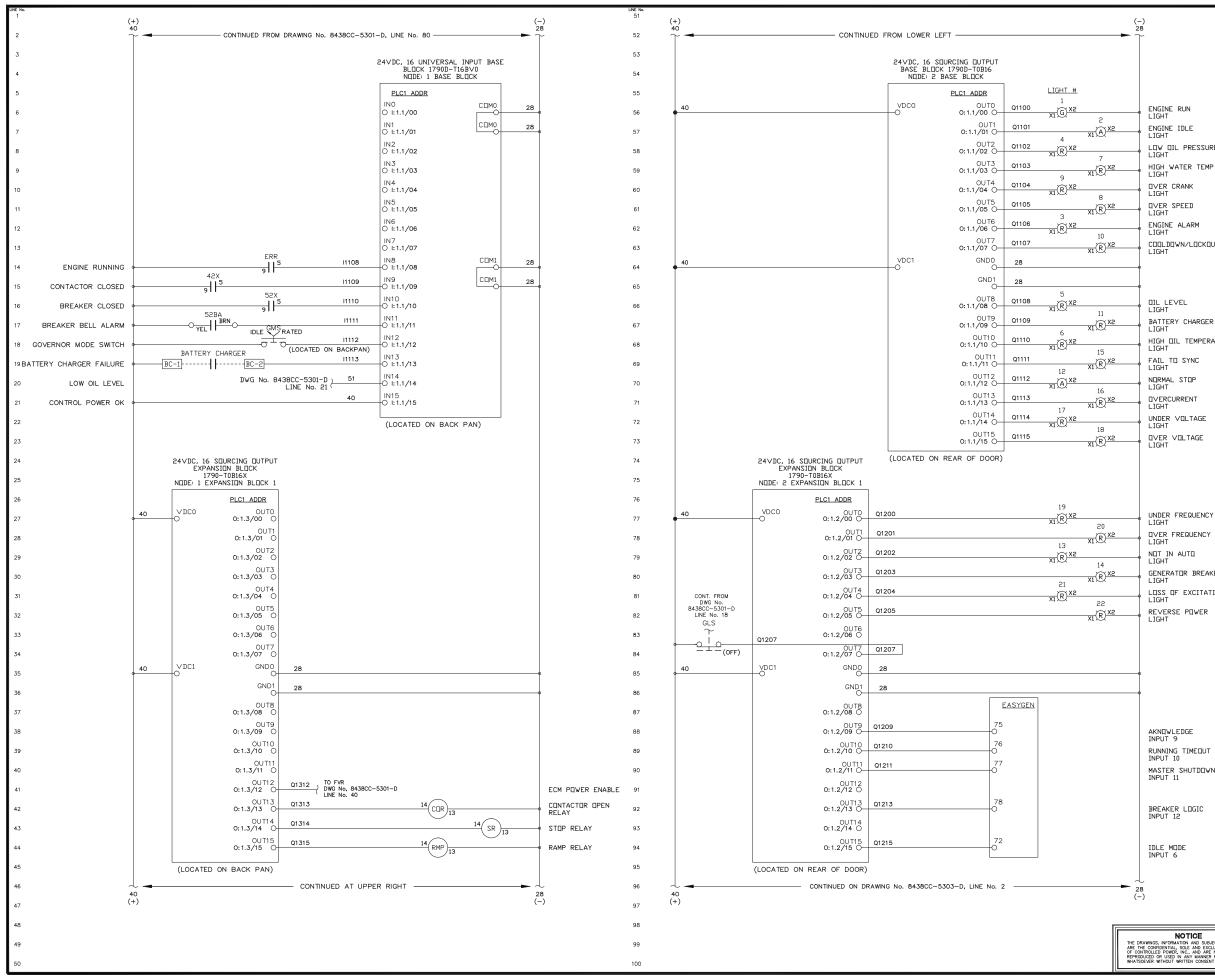
	в	09-21-16	-16 AS BUILT						
	REV.	DATE			DESCRI	PTION		BY	
	PUF	RCHASE ORDE	R No.	ERNIE	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC	
	TITLE:	TITLE: GENERATOR 2 AC THREE LINE, SCHEMATIC DIAGRAM							
	SCALE	E: NONE		DATE:	08-23-16	DWN. BY: GPN			
	DWG.	No: 843	8CC-	5202-D	SHEET: 1	OF 1	CKD. BY: JMD		
	JOB: (CROOKED	CREE	< EASYGE	N UPGRAD	E			
NOTICE WFORMATION AND SUBJECT MATTER HEREOF INTIAL SOLE AND EXCLUSIVE PROPERTY POWER, INC., AND ARE NOT TO BE COPIED, USED IN ANY MAINER FOR ANY PURPOSE HOUT WRITTEN CONSENT OR DIRECTION.	Ð	ENGINEERED & MANUFACTURED BY Controlled Power, Inc. BOTHELL, WASHINGTON USA (425)-485-1778 www.controlledpowerinc.com							



	В	09-21-16	AS B	UILT				RAC	
	REV.	DATE			DESCR	PTIÓN		BY	
	PUF	RCHASE ORDE	R No.	ERNIE I	BAUMGARTNEI	CONTRO	LLED POWER JOB No.	8438CC	
	TITLE: GENERATOR 3 AC THREE LINE, SCHEMATIC DIAGRAM								
	SCALE	E: NONE		DATE:	08-23-16		DWN. BY: GPN		
	DWG.	No: 843	8CC-	5203-D	SHEET:	OF 1	CKD. BY: JMD		
	JOB: (CROOKED	CREE	< EASYGE	N UPGRA	DE			
NOTICE NFORMATION AND SUBJECT MATTER HEREOF INITIAL SOLE AND EXCLUSIVE PROPERTY POWER, INC., AND ARE NOT TO BE COPIED, USED IN ANY MAINER FOR ANY PURPOSE HOUT WRITTEN CONSENT OR DIRECTION.	Ð	ENGINEERED & MANUFACTURED BY Controlled Power, Inc. BOTHELL, WASHINGTON USA (425)-485-1778 www.controlledpowerinc.com							





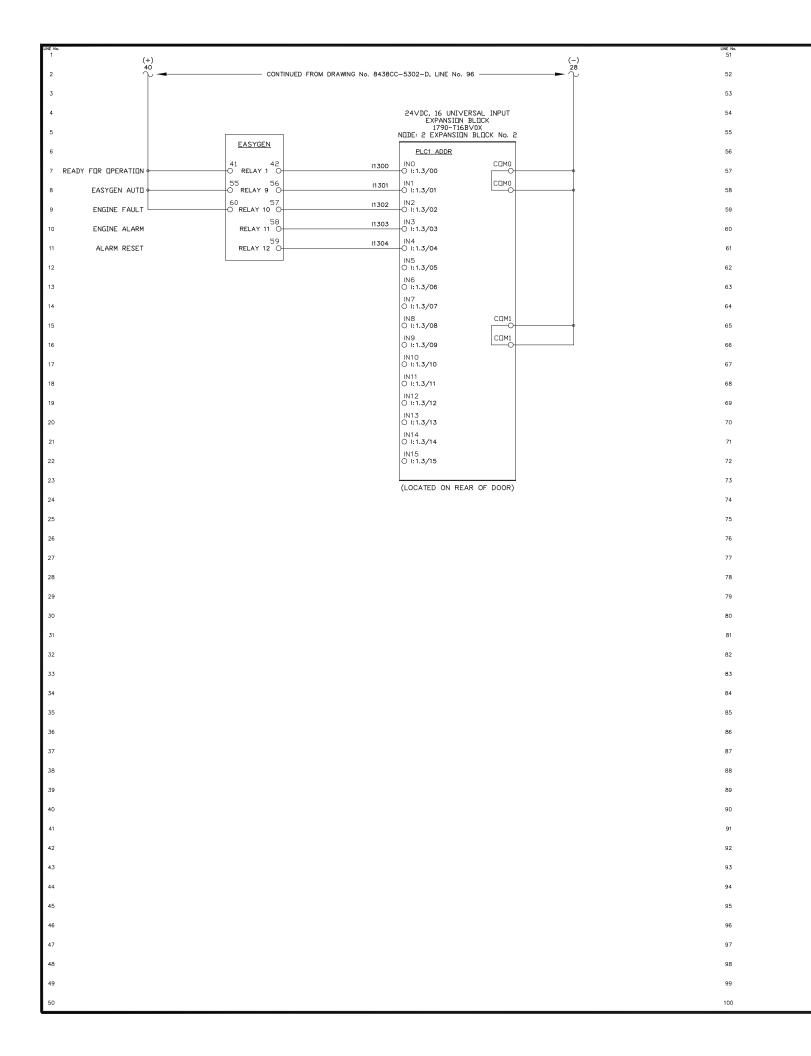


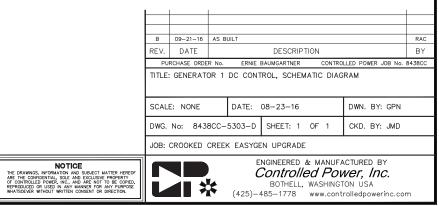
WLEDGE F 9								
ING TIMEQUT T 10								
ER SHUTDOWN T 11	 '							L
KER LOGIC	В	09-21-16	AS BI	UILT				RAC
T 12	REV.	DATE	DESCRIPTION					
	PU	RCHASE ORDE	R No.	ERNIE E	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC
MQDE F 6	TITLE:	. GENERAT	OR 1	DC CONT	ROL, SCHEM	IATIC DIAG	RAM	
	SCALE: NONE DATE: 08-23-16 DWN. BY: GPN							
	DWG. No: 8438CC-5302-D SHEET: 1 OF 1 CKD. BY: JMD							
	JOB:	CROOKED	CREE	< EASYGE	N UPGRADE			
NOTICE FORMATION AND SUBJECT MATTER HEREOF ITAL, SOLE AND EXCLUSIVE PROPERTY ISED IN ONLY MANNER FOR ANY PURPOSE OUT WRITTEN CONSENT OR DIRECTION.				C	BOTHELL,	ed Pov	ver, Inc.	m

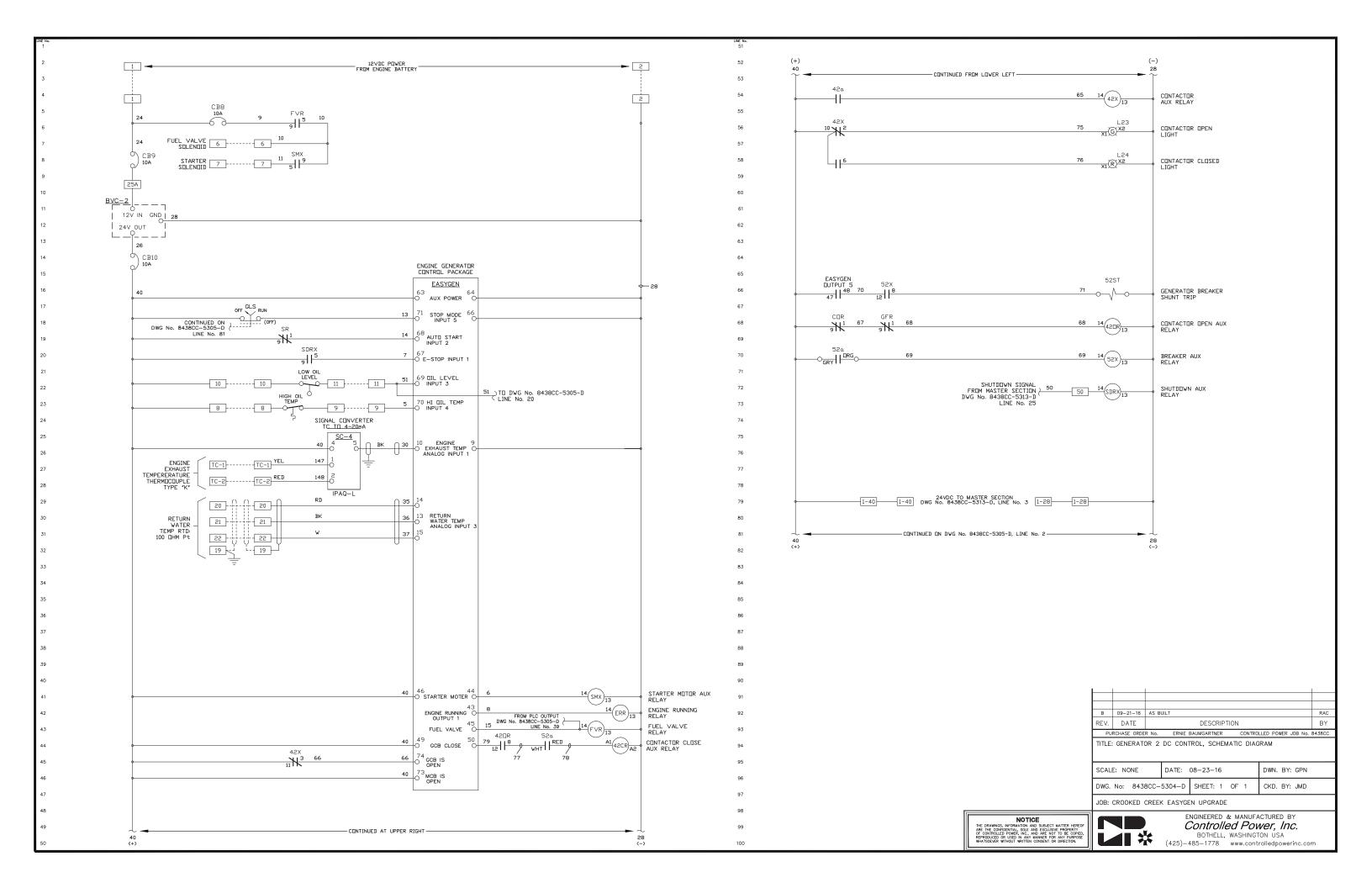
Q∨ER FREQUENCY LIGHT NOT IN AUTO LIGHT GENERATOR BREAKER OPEN LIGHT LOSS OF EXCITATION LIGHT

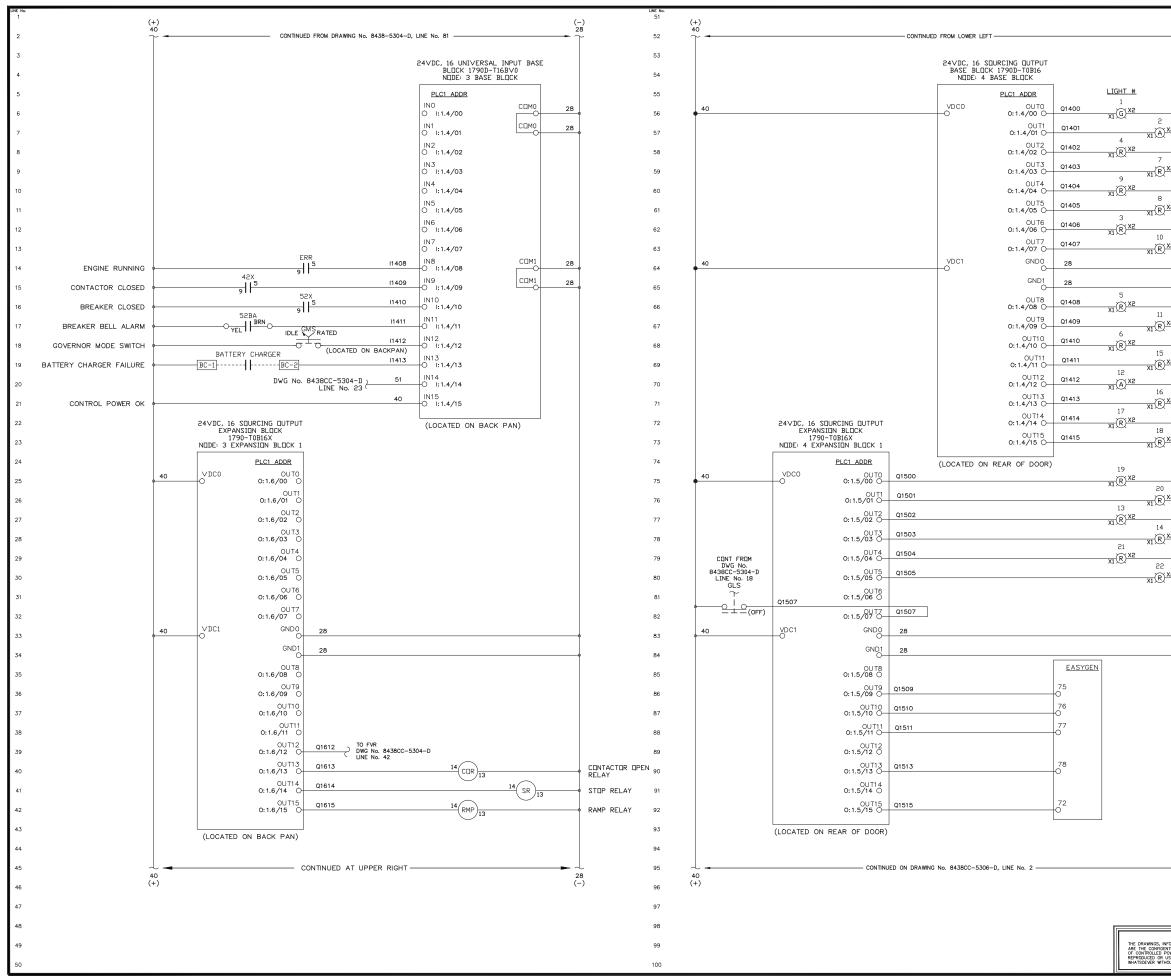
QIL LE∨EL LIGHT BATTERY CHARGER FAILURE LIGHT HIGH QIL TEMPERATURE LIGHT FAIL TO SYNC LIGHT NORMAL STOP LIGHT D∨ERCURRENT LIGHT UNDER VOLTAGE LIGHT Q∨ER ∨QLTAGE LIGHT

ENGINE RUN LIGHT ENGINE IDLE LIGHT LOW QIL PRESSURE LIGHT HIGH WATER TEMP LIGHT □∨ER CRANK LIGHT □∨ER SPEED LIGHT ENGINE ALARM LIGHT COQLDQWN/LQCKQUT LIGHT



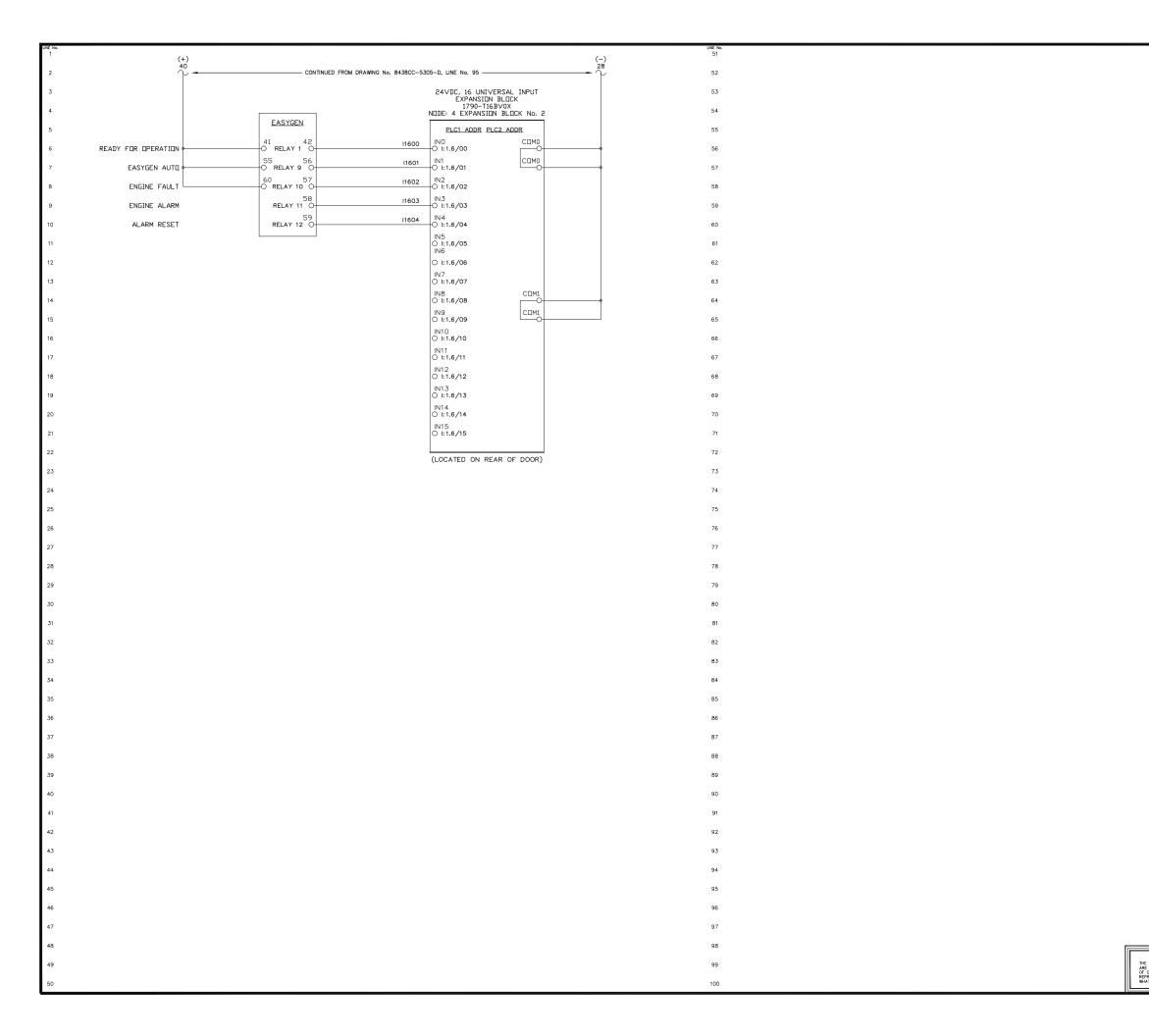




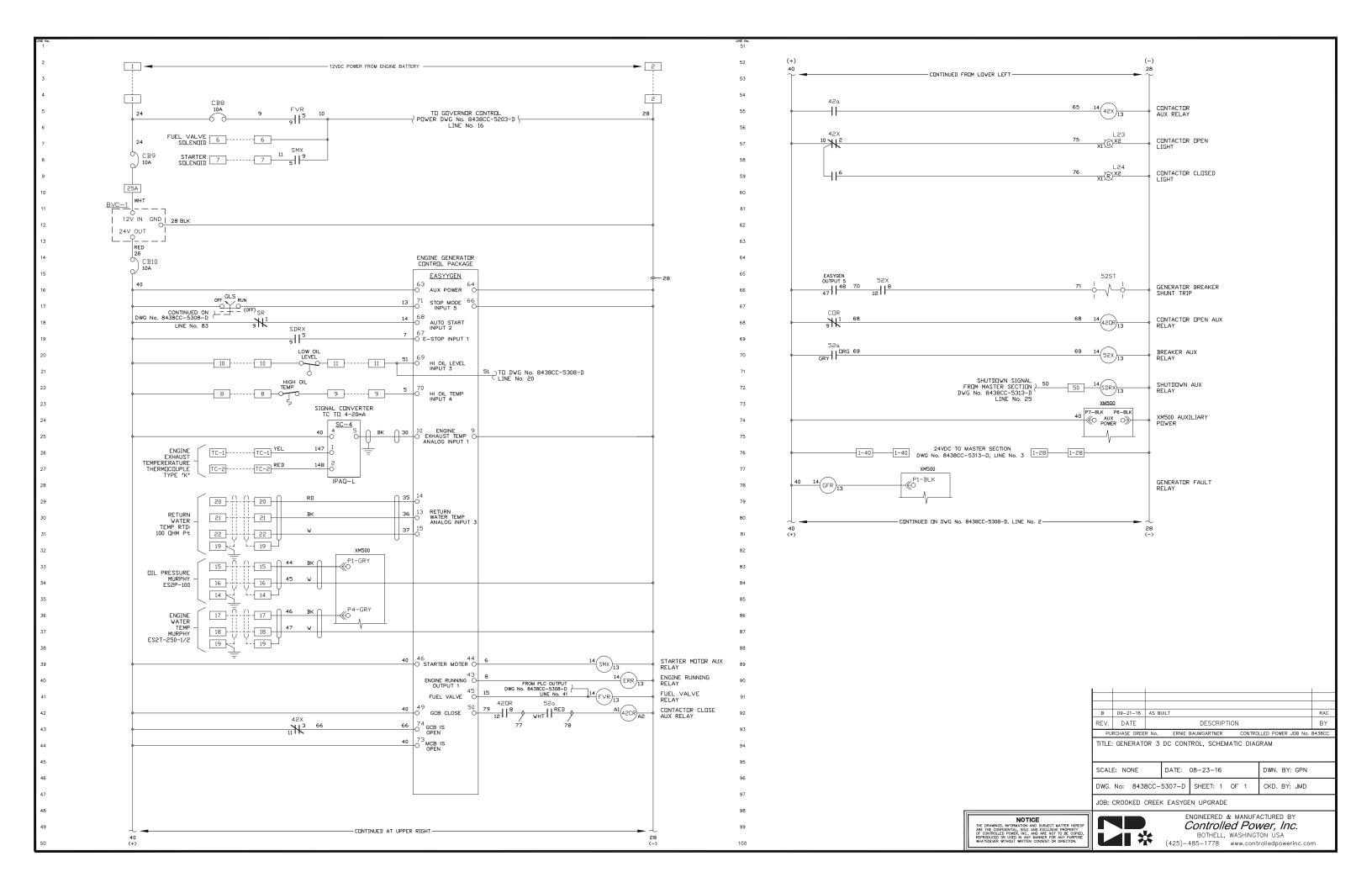


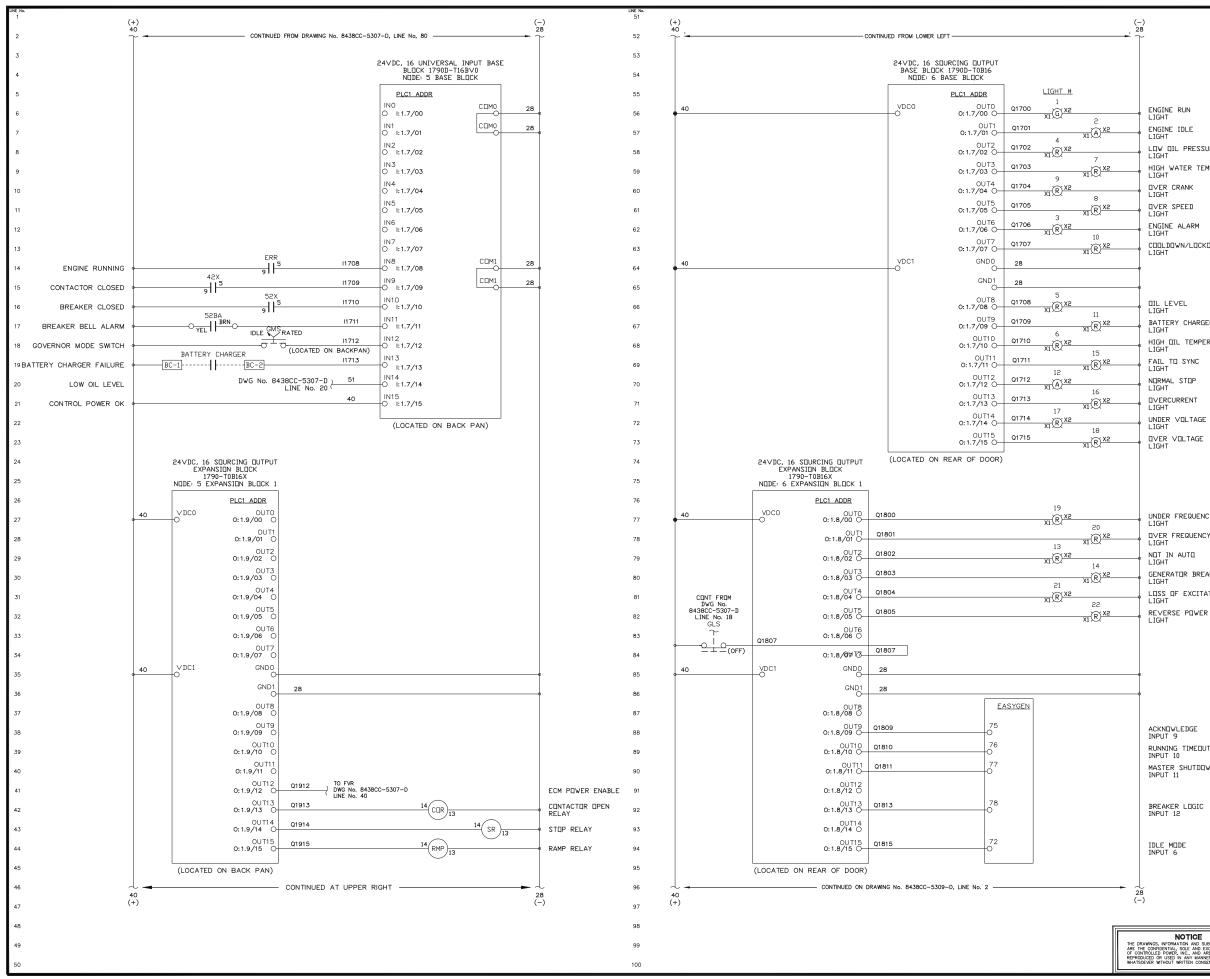
	28							
-	Ĭ							
	ENGINE RUN							
(2	ENGINE IDLE							
	LQW QIL PRESS	SURE						
(2	HIGH WATER TE	EMP						
	LIGHT							
<2	LIGHT DVER SPEED							
	LIGHT							
	LIGHT							
X2	COOLDOWN/LOCH LIGHT	KQUT						
	_							
	DIL LEVEL							
x2	BATTERY CHARG	GER FAILURE						
	LIGHT HIGH QIL TEMPE	ERATURE						
(2	FAIL TO SYNC							
	LIGHT							
	LIGHT							
x2	LIGHT							
	UNDER VOLTAGE	E						
x2	UVER VOLTAGE	:						
		NCY						
x2		ICY						
<u>\</u>	LIGHT							
	LIGHT							
X2	GENERATOR BRE							
	LOSS OF EXCIT							
X2	_ RE∨ERSE POWE LIGHT	R						
	A							
	-0							
	-							
	AKNOWLEDGE INPUT 9							
	RUNNING TIMEI INPUT 10	.DUT						
	MASTER SHUTI INPUT 11	DOWN						
	INCO 1 22							
	BREAKER LOGI	TC						
	INPUT 12							+
			- AS R					
	IDLE MQDE INPUT 6	в 09-21-1 REV. DATE		UILI	DESCRIPTIC	ON		RAC BY
		PURCHASE OF	RDER No.		BAUMGARTNER	CONTRO	DLLED POWER JOB No.	-
		TITLE: GENERA	ATOR 2	DC CONI	TROL, SCHEMA	TIC DIAG	RAM	
^	28	SCALE: NONE			08-23-16		DWN. BY: GPN	
	(-)							
		DWG. No: 84	438CC-	5305-D	SHEET: 1 (OF 1	CKD. BY: JMD	
		JOB: CROOKED) CREEK					
	CE ND SUBJECT MATTER HEREOF			EI (ngineered &	MANUFA	Actured by Mer Inc.	
TIAL, SOLE A OWER, INC., A ISED IN ANY PUT WRITTEN	AND SUBJECT MATTER HEREOF AND EXCLUSIVE PROPERTY AND ARE NOT TO BE COPIED. MANNER FOR ANY PURPOSE I CONSENT OR DIRECTION.		**		BOTHELL, W	NASHINGT	TON USA trolledpowerinc.co	
	· · · · · · · · · · · · · · · · · · ·		7 A 1	(425)-4	485-1//8 V	www.cont	.rolleapowerinc.cc	m

(-)



									
	В	09-21-16	AS B	UILT				RAC	
	REV.	DATE	DESCRIPTION						
	PU	PURCHASE ORDER No. ERNIE BAUMGARTNER CONTROLLED POWER JOB No. 84							
	TITLE:	TITLE: GENERATOR 2 DC CONTROL, SCHEMATIC DIAGRAM							
	SCAL	SCALE: NONE DATE: 08-23-16 DWN. BY: GPN							
	DWG.	No: 843	всс-	5306-D	SHEET: 1	OF 1	CKD. BY: JMD		
	JOB:	CROOKED	CREE	< EASYGE	N UPGRAD	E			
NOTICE NATION AND SUBJECT MATTER HEREOF AL, SOLE AND EXCLUSIVE PROPERTY ER, NOL, AND ARE NOT OF DE COPIED. D IN ANY MANNER FOR ANY PURPOSE T WRITTEN CONSENT OR DIRECTION.	E			Č	Control	<i>led Pov</i>	ACTURED BY <i>WER, INC.</i> TON USA rolledpowerinc.co	m	



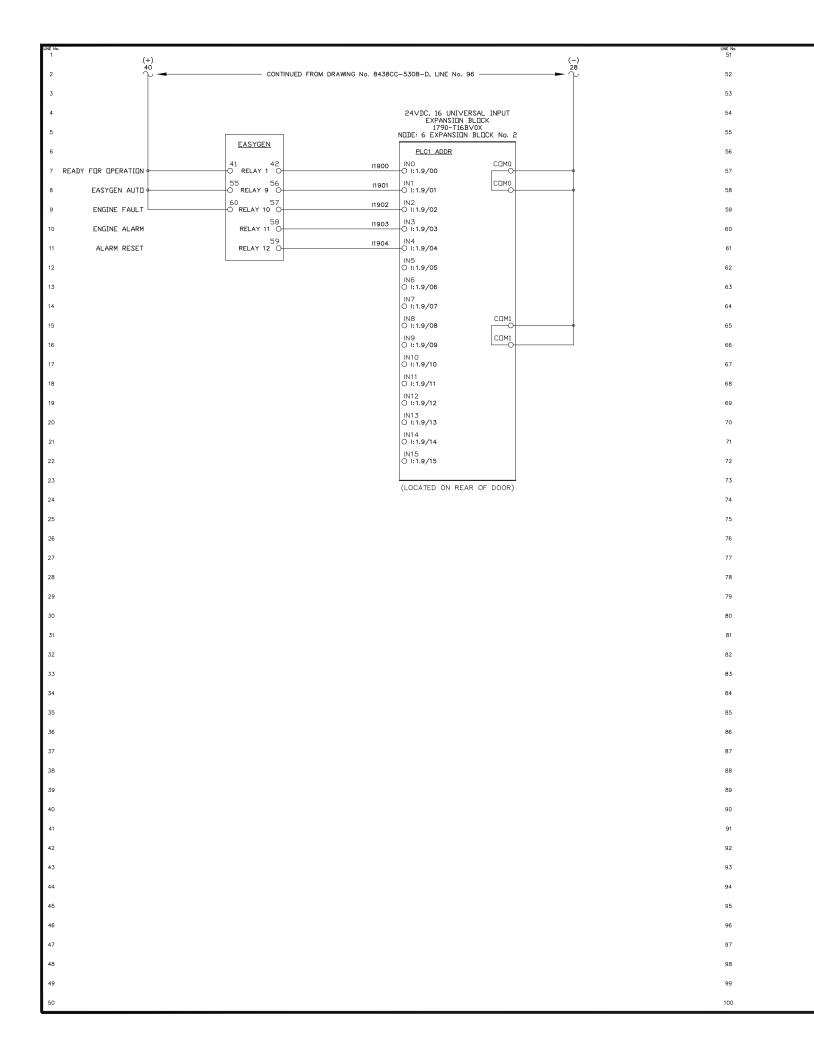


QWLEDGE T 9								
ING TIMEQUT T 10								
ER SHUTDOWN F 11	L	I	1					1
KER LOGIC								
T 12	В	09-21-16	AS B	JILT				RAC
	REV.	DATE			DESCRIP	TION		BY
	PU	RCHASE ORDE	R No.	ERNIE I	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC
MQDE F 6	TITLE	: GENERAT	OR 3	DC CONT	ROL, SCHEN	IATIC DIAG	RAM	
	SCAL	E: NONE		DATE:	08-23-16		DWN. BY: GPN	
	DWG.	No: 843	800-	5308-D	SHEET: 1	OF 1	CKD. BY: JMD	
	JOB:	CROOKED	CREE	(EASYGE	N UPGRADE			
NOTICE FORMATION AND SUBJECT MATTER HEREOF ITAL, SOLE AND EXCULSIVE PROPERTY OVER, INC., AND ARE NOT TO BE COPIED. SED IN MATH MANNEAR NOT AN INFORMATION SED IN MATH MANNEAR OF DIRECTION.	E		*	C	BOTHELL,	ed Pov	CTURED BY VER, INC. ON USA rolledpowerinc.co	m

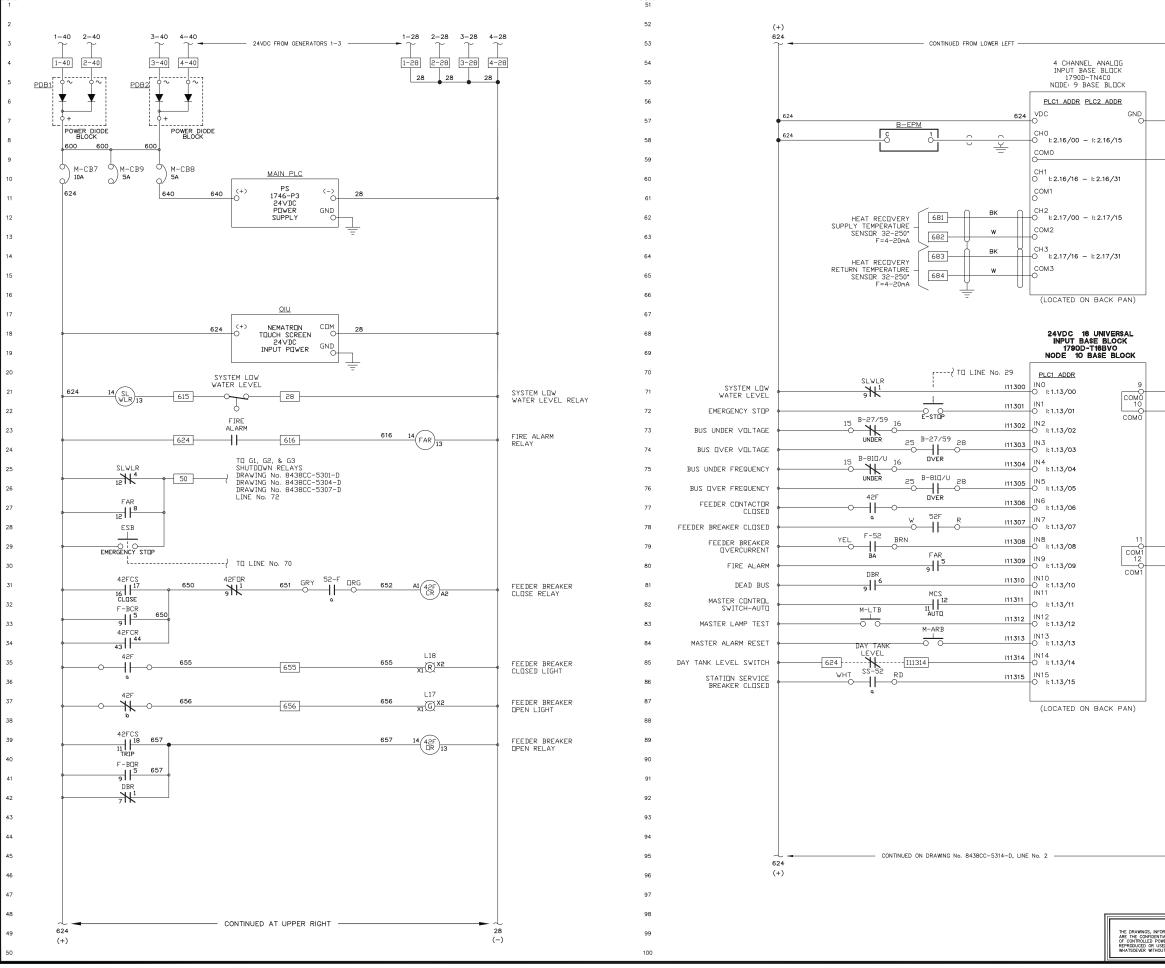
UNDER FREQUENCY Q∨ER FREQUENCY LIGHT NOT IN AUTO LIGHT GENERATOR BREAKER OPEN LIGHT LOSS OF EXCITATION

QIL LE∨EL LIGHT BATTERY CHARGER FAILURE LIGHT HIGH QIL TEMPERATURE LIGHT FAIL TO SYNC LIGHT NORMAL STOP LIGHT D∨ERCURRENT LIGHT UNDER VOLTAGE LIGHT QVER VQLTAGE LIGHT

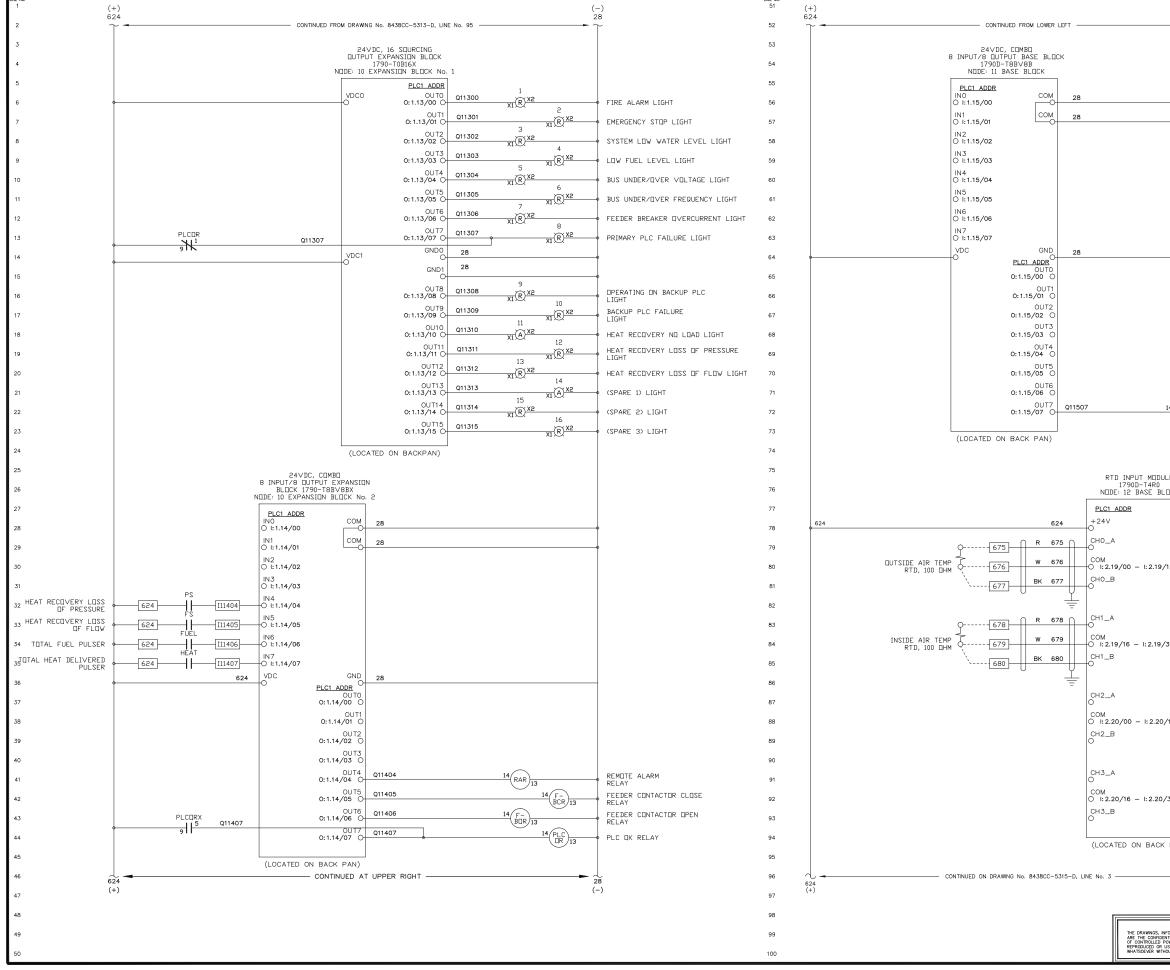
ENGINE RUN LIGHT ENGINE IDLE LIGHT LOW QIL PRESSURE LIGHT HIGH WATER TEMP LIGHT □∨ER CRANK LIGHT □∨ER SPEED LIGHT ENGINE ALARM LIGHT COQLDQWN/LQCKQUT LIGHT



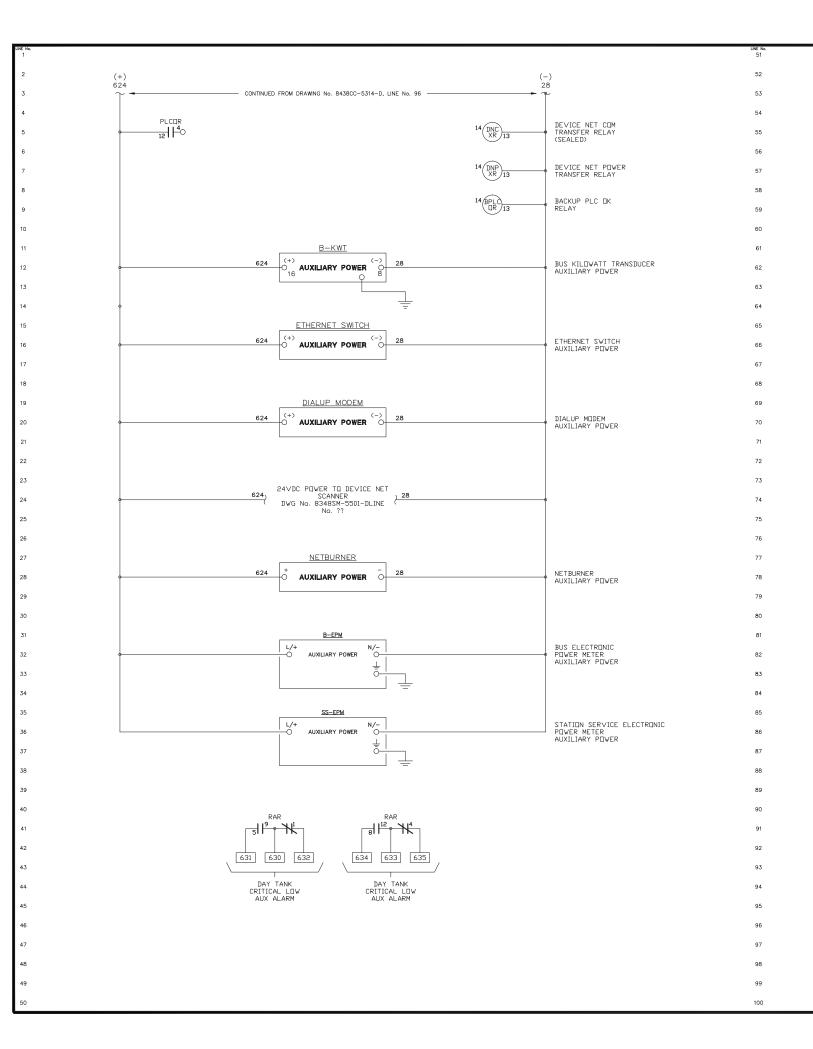
	в	09-21-16	AS B	UILT				RAC	
	REV.	DATE			DESCRIPTI	ION		BY	
	PU	RCHASE ORDE	R No.	ERNIE E	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC	
	TITLE: GENERATOR 3 DC CONTROL, SCHEMATIC DIAGRAM								
	SCAL	E: NONE		DATE:	08-23-16		DWN. BY: GPN		
	DWG.	No: 8438	всс-	5309-D	SHEET: 1	OF 1	CKD. BY: JMD		
	JOB:	CROOKED (CREE	< EASYGE	N UPGRADE				
NOTICE THE DRAWING, MORNHAM AND SUBJECT MATTER HEREOF ARE THE CONTROLLAD SOLE DECULSIVE PROPERTY OF CONTROLLED POWER, INC., AND ARE NOT TO BE COPED, REPRODUCED OF USED IN ANY MUNRE FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN CONSENT OR DIRECTION.	E			Č	NGINEERED & Controlle BOTHELL, 185–1778	A POV	ver, Inc.	m	



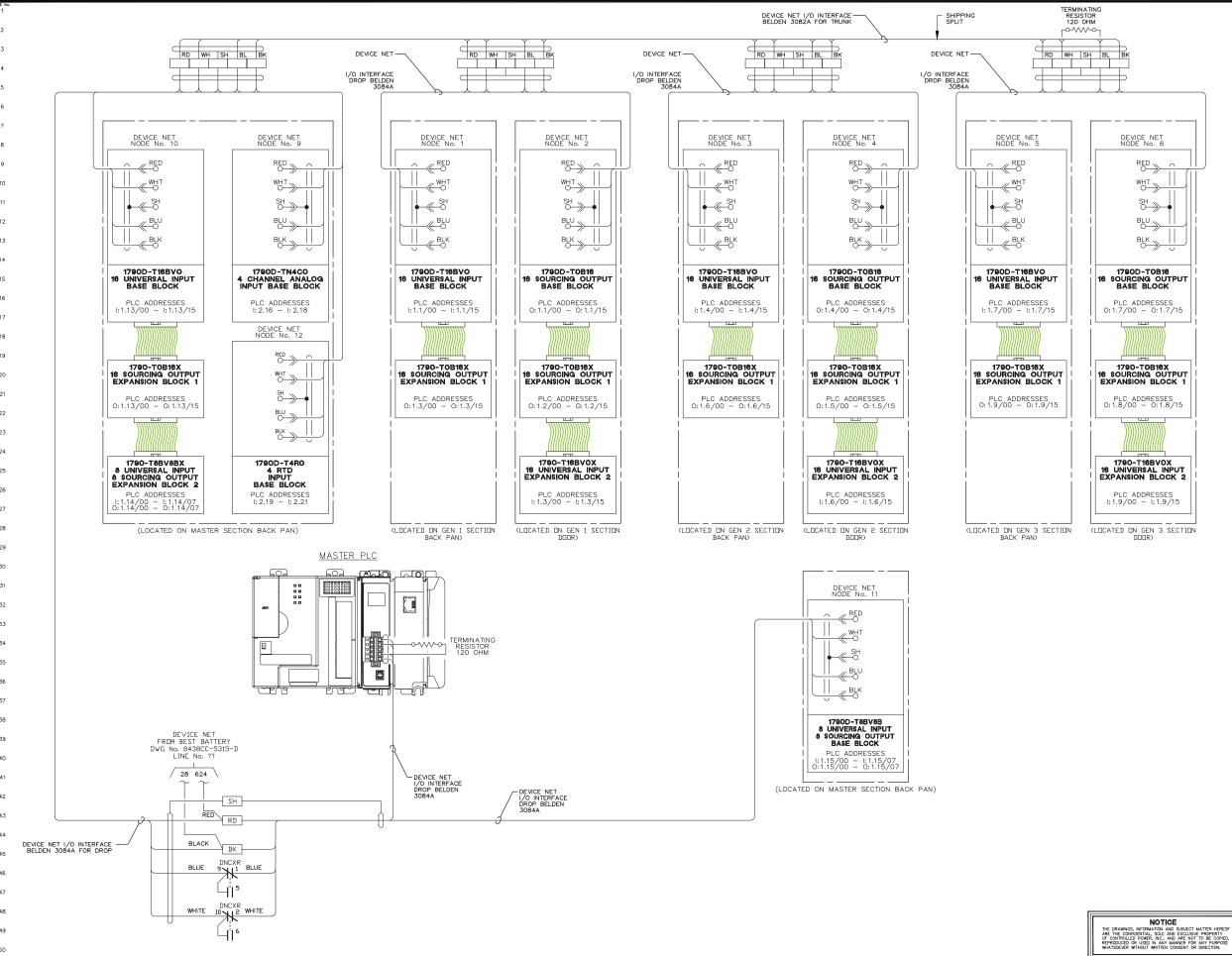
(−) 28 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
28							
Ĭ							
28							
28							
28							
	в REV.	09-21-16 DATE	AS BUILT	DESCRIP	ΠΟΝ		rac BY
	PUF	RCHASE ORDE		IE BAUMGARTNER	CONTRO	LLED POWER JOB No.	
L						1	
28 (-)	SCALE DWG.	E: NONE	DATE 8CC-5313-	: 08-23-16 D SHEET: 1	OF 1	DWN. BY: GPN	
	<u> </u>			YGEN UPGRADE		CKD. BY: JMD	
NOTICE)	ENGINEERED	& MANUFA	ACTURED BY	
VFORMATION AND SUBJECT MATTER HEREOF INITAL, SOLE AND EXCLUSIVE PROPERTY POWER, INC., AND ARE NOT TO BE COPIED, USED IN ANY MANNER FOR ANY PURPOSE HOUT WRITTEN CONSENT OR DIRECTION.			(425)	BOTHELL,)-485-1778	WASHINGT	VEI, IIIC. ION USA rolledpowerinc.com	m
	1		·				



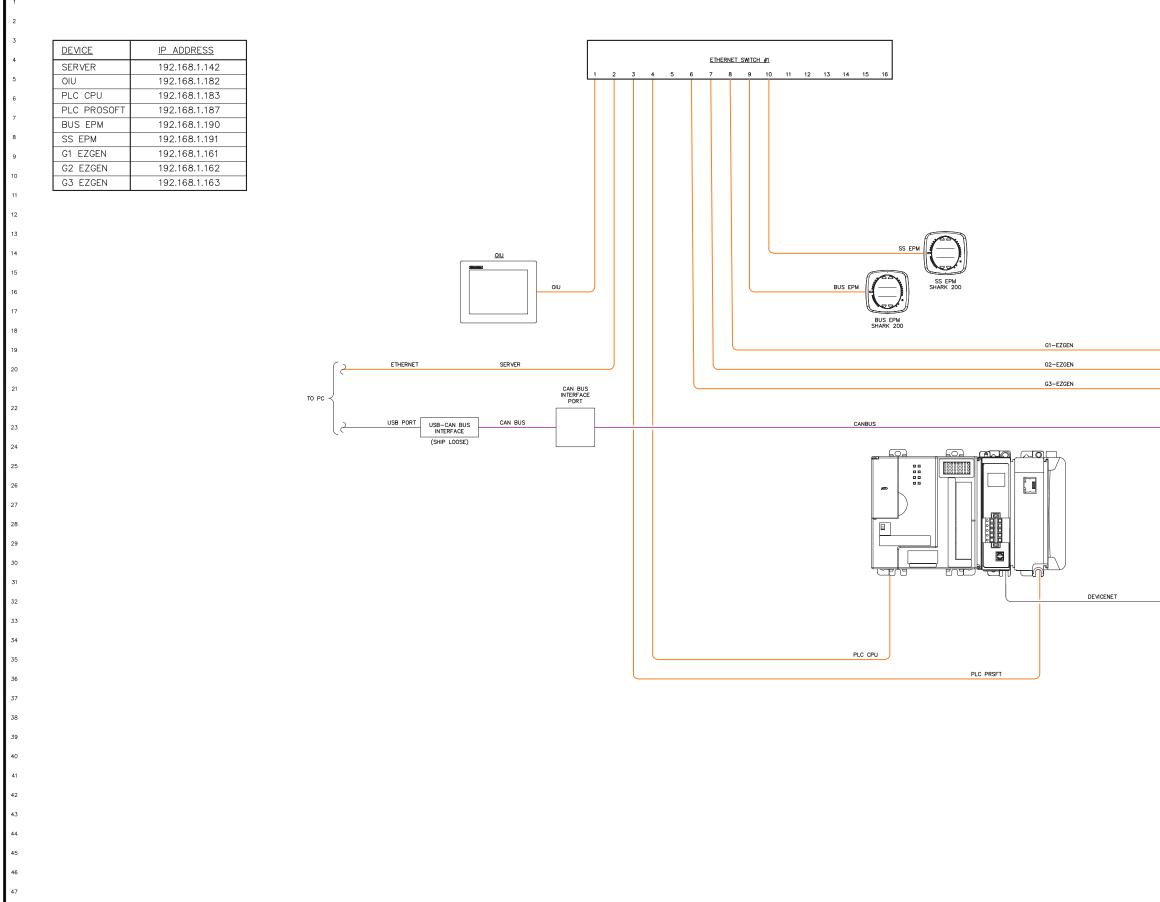
		1
(-) 28		
•		
	ok aux	
ORX 13 RELA		
LE		
аск		
GND		
15		
31		
/15		
	<u> </u>	
/31		
/31	B 09-21-16 AS BUILT REV. DATE DESCRIPTION	RAC BY
	PURCHASE ORDER No. ERNIE BAUMGARTNER CONTROLLED POWER JO	
PAN)	TITLE: MASTER DC CONTROL, SCHEMATIC DIAGRAM	
		0.001
.	SCALE: NONE DATE: 08–23–16 DWN. BY:	
28 (-)	DWG. No: 8438CC-5314-D SHEET: 1 OF 1 CKD. BY:	JMD
	JOB: CROOKED CREEK EASYGEN UPGRADE	
NOTICE	ENGINEERED & MANUFACTURED BY	
FORMATION AND SUBJECT MATTER HEREOF VTAL, SOLE AND EXCLUSIVE PROPERTY OWER, INC., AND ARE NOT TO BE COPIED, USED IN ANY MANNER FOR ANY PURPOSE OUT WRITTEN CONSENT OR DIRECTION.	Controlled Power, Inco BOTHELL, WASHINGTON USA (425)-485-1778 www.controlledpoweri	
OUT WRITTEN CONSENT OR DIRECTION.	(425)-485-1778 www.controlledpoweri	nc.com



	в	09-21-16	AS B	UILT				RAC	
	REV.	DATE			DESCRIF	TION		BY	
	PU	RCHASE ORDE	R No.						
	TITLE:	LE: MASTER DC CONTROL, SCHEMATIC DIAGRAM							
	SCAL	E: NONE	NONE DATE: 08-23-16 DWN. BY: GPN						
	DWG.	No: 843	всс-	5315-D	SHEET: 1	OF 1	CKD. BY: JMD		
	JOB:	CROOKED	CREEI	< EASYGE	EN UPGRAD	E			
NOTICE ORMATICN AND SUBJECT MATTER HEREOF TIAL SOLE AND EXCLUSIVE PROPERTY WER, INC., AND ARE NOT TO BE COPIED. SED IN ANY MANNER FOR ANY PURPOSE UT WRITTEN CONSENT OR DIRECTION.	E		*	Č	Control	<i>ed Pov</i> , washingt	ACTURED BY <i>WER, INC.</i> TON USA rolledpowerinc.co	m	

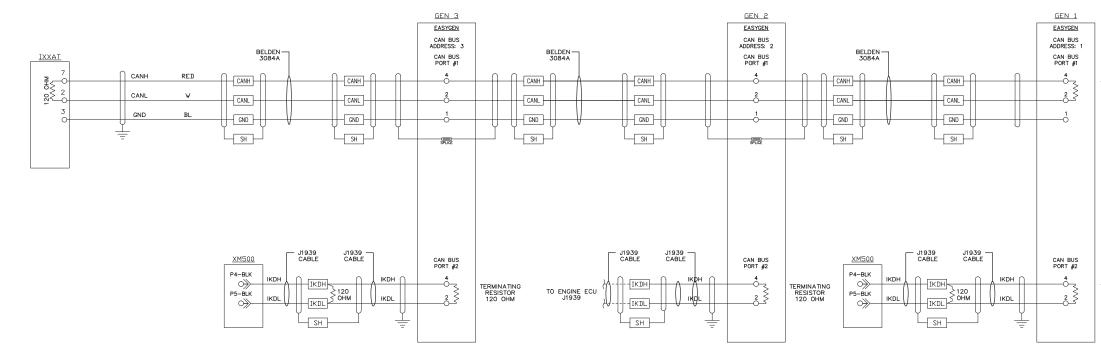


B 09-21-16 AS BUILT REV. DATE DESCRIPTION ΒY PURCHASE ORDER No. ERNIE BAUMGARTNER CONTROLLED POWER JOB No. 8438CC TITLE: PLC COMMUNICATION DIAGRAM SCALE: NONE DATE: 08-23-16 DWN. BY: GPN DWG. No: 8438CC-5501-D SHEET: 1 OF 1 CKD. BY: JMD JOB: CROOKED CREEK EASYGEN UPGRADE ENGINEERED & MANUFACTURED BY Controlled Power, Inc. 茶 BOTHELL, WASHINGTON USA (425)-485-1778 www.controlledpowerinc.com



THE DRAWINGS, INFO ARE THE CONFIDENTI OF CONTROLLED POW REPRODUCED OR USE WHATSOEVER WITHOU

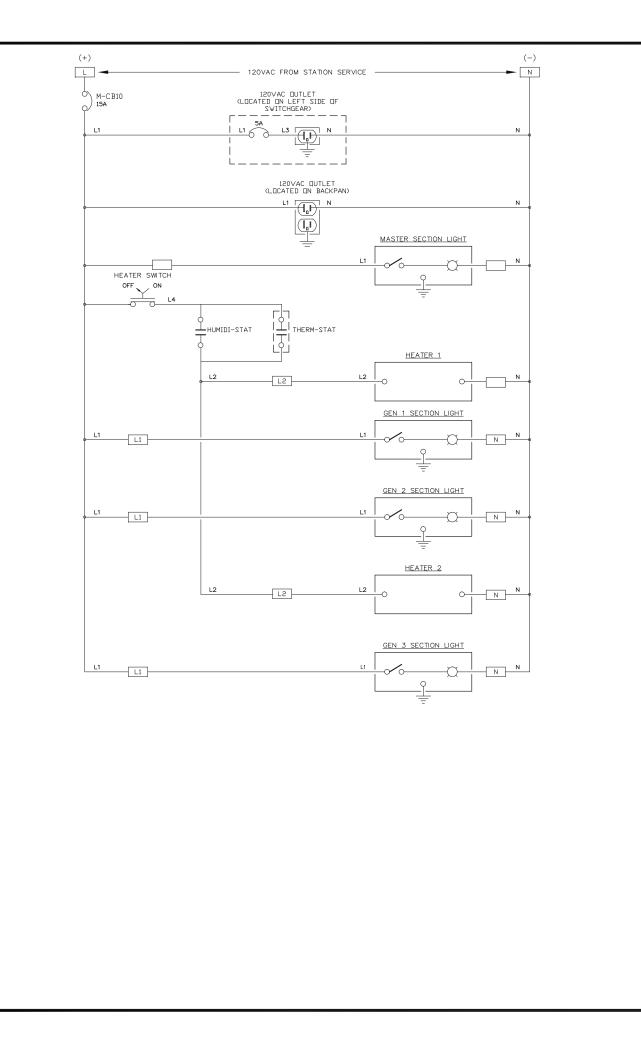
		C				ADDR: 1	
C				DEVICE		APACT /0	
							_
	B 09-21-16	AS B	JILT				RAC
	REV. DATE			DESCRIF			BY
	PURCHASE ORDE TITLE: COMMUNI			RK DIAGRA		LLED POWER JOB N	lo. 8438CC
	SCALE: NONE		DATE:)8–23–16		DWN. BY: GP	N
	DWG. No: 843	8CC-	5601-D	SHEET: 1	OF 1	CKD. BY: JM	D
	JOB: CROOKED	CREE	(EASYGE	N UPGRAD	E		
NOTICE FORMATION AND SUBJECT MATTER HEREOF MITAL, SOLE AND EXCLUSIVE PROPERTY OWER, INC., AND ARE NOT TO BE COPIED, USED IN ANY MANER FOR ANY PURPOSE OUT WRITTEN COMSENT OR DIRECTION.)	Ľ	GINEERED	& MANUFA	ACTURED BY Wer, Inc. TON USA rolledpowerinc.	com
	1						



		1	1					
	в	09-21-16	AS B	UILT				RAC
	REV.	DATE			DESCRI	PTION		BY
	PU	PURCHASE ORDER No. ERNIE BAUMGARTNER CONTROLLED POWER JOB No. 843						
	TITLE:	E: EPM MONITORING & SYSTEM COMMUNICATION DIAGRAM						
	SCAL	E: NONE		DATE:	08-23-16		DWN. BY: GPN	
	DWG.	No: 843	8CC-	5602-D	SHEET:	OF 1	CKD. BY: JMD	
	JOB:	CROOKED	CREE	< EASYGE	IN UPGRA	ЭE		
NOTICE FORMATION IAND SUBJECT MATTER HEREOF NTALL SOLE AND EXCLUSIVE PROPERTY OWER, INC. AND ARE NOT TO BE COPIED, USED IN ANY MANNER FOR ANY PURPOSE OUT WRITTEN CONSENT OR DIRECTION.	E			Č	Control BOTHEL	<i>led Pov</i> , washingt	ACTURED BY <i>WER, INC.</i> TON USA rolledpowerinc.co	m

TERMINATING RESISTOR 120 OHM

TERMINATING RESISTOR 120 OHM



UNE No. 51

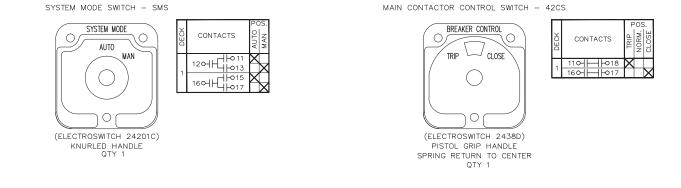
52

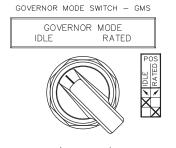
53

100

THE DRAWINGS, INFORM. ARE THE CONFIDENTIAL, OF CONTROLLED POWER REPRODUCED OR USED WHATSOEVER WITHOUT 1

								1
	в	09-21-16	AS B	UILT				RAC
	REV.	DATE			DESCRIF	TION		BY
	PU	PURCHASE ORDER No. ERNIE BAUMGARTNER CONTROLLED POWER JOB No. 8						
	TITLE:	TITLE: HEATER & LIGHTING CONTROL, SCHEMATIC DIAGRAM						
	SCAL	SCALE: NONE DATE: 08-23-16 DWN. BY: GPN						
	DWG.	No: 843	всс-	5701-D	SHEET: 1	OF 1	CKD. BY: JMD	
	JOB:	CROOKED	CREE	< EASYGE	N UPGRAD	Ξ		
NOTICE MATCM AND SUBJECT MATTER HEREOF AL SOLE AND EXCLUSUE PROPERTY ER, INC. AND ARE NOT TO BE COPIED. D IN ANY MANNER FOR ANY PURPOSE I WRITTEN CONSENT OR DIRECTION.	E		*	Č	Controli BOTHELL	ed Pov	CTURED BY <i>VER, INC.</i> ON USA rolledpowerinc.co	m

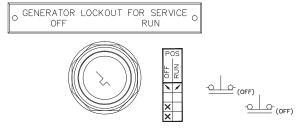




-0-0-(RATED)

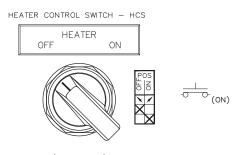
(MAINTAINED) LOCATED ON BACK PAN





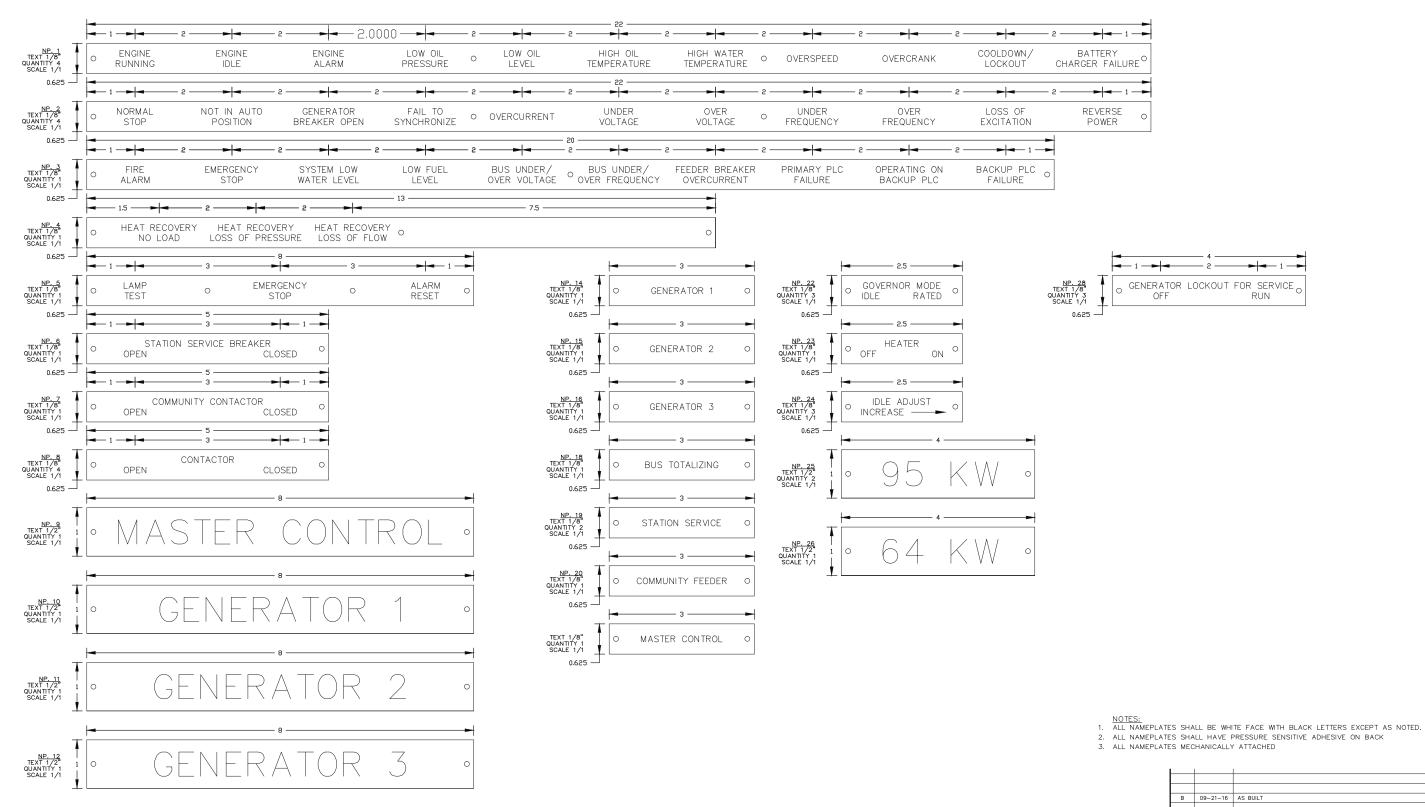
(MAINTAINED)

THE DRAWINGS, INFO ARE THE CONFIDENT OF CONTROLLED PO REPRODUCED OR U: NOTIC



(MAINTAINED) LOCATED ON MASTER BACK PAN

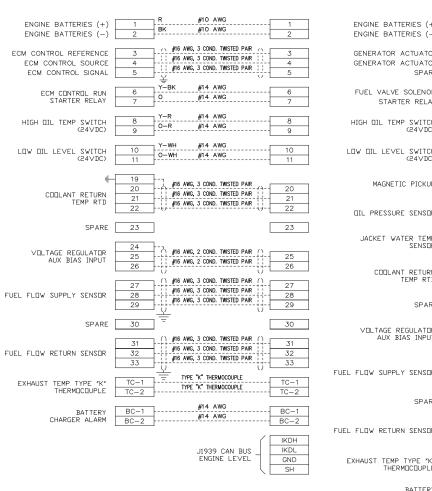
		1						
	В	09-21-16	AS BI	UILT				RAC
	REV.	DATE			DESCRIP	TION		BY
	PU	RCHASE ORDE	R No.	ERNIE	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC
	TITLE:	CONTROL	SWIT	CH TART	GET DIAGRA	М		
	SCAL	E: NONE		DATE:	08-23-16		DWN. BY: GPN	
	DWG.	No: 8438	8CC-	6101-D	SHEET: 1	OF 1	CKD. BY: JMD	
	JOB:	CROOKED (CREE	< EASYGE	EN UPGRADE			
E SUBJECT MATTER HEREOF D EXCLUSIVE PROPERTY D ARE NOT TO BE COPIED, ANNER FOR ANY PURPOSE ONSENT OR DIRECTION.	£		*	C	BOTHELL,	ed Pou	ACTURED BY <i>NET, INC.</i> TON USA crolledpowerinc.cor	n



			I					
	В	09-21-16	AS B	UILT				RAC
	REV.	DATE			DESCRIP	TION		BY
	PU	RCHASE ORDE	R No.	ERNIE	BAUMGARTNER	CONTRO	LLED POWER JOB No.	8438CC
	TITLE	TLE: NAMEPLATE ENGRAVING SCHEDULE, FABRICATION DIAGRAM						
	SCAL	SCALE: NONE DATE: 08-23-16 DWN. BY: GPN						
	DWG.	No: 843	8CC-	6201-D	SHEET: 1	OF 1	CKD. BY: JMD	
	JOB:	CROOKED	CREE	K EASYGE	N UPGRADE	5		
NOTICE OTMATICN AND SUBJECT MATTER HEREOF TIAL, SOLE AND EXCLUSIVE PROPERTY WER, INC., AND ARE NOT TO BE COPIED, SED IN ANY MAINER FOR ANY PURPOSE JUT WRITTEN CONSENT OR DIRECTION.	E		*	C	BOTHELL,	ed Pou	ACTURED BY <i>VER, INC.</i> TON USA rolledpowerinc.col	m



<u>GENERATOR 2</u>



ENGINE BATTERIES (+) #10 AWG BK ENGINE BATTERIES (-) BL-BK #12 AWG GENERATOR ACTUATOR .3 BL-WH #12 AWG GENERATOR ACTUATOR 4 4 5 SPARE 5 #14 AWG Y–BK FUEL VALVE SOLENOID 6 7 #14 AWG STARTER RELAY Y-R #14 AWG HIGH DIL TEMP SWITCH (24VDC) 8 8 - 0-R #14 AWG 9 9 Y_WH #14 AWG LOW OIL LEVEL SWITCH 10 0-WH #14 AWG (24VDC) #16 AWG, 2 COND. TWISTED PAIR MAGNETIC PICKUP #16 AWG, 2 COND. TWISTED PAIR 13 14 #16 AWG, 2 COND. TWISTED PAIR 15 15 16 #16 AWG, 2 COND. TWISTED PAIR 16 #16 AWG. 2 COND. TWISTED PAIR JACKET WATER TEMP SENSOR #16 AWG, 2 COND. TWISTED PAIR 18 18 19 #16 AWG, 3 COND. TWISTED PAIR 20 21 20 #16 AWG, 3 COND. TWISTED PAIR COQLANT RETURN TEMP RTD 21 #16 AWG, 3 COND. TWISTED PAIR 22 22 23 SPARE 23 24 25 #16 AWG, 2 COND. TWISTED PAIR (VOLTAGE REGULATOR AUX BIAS INPUT 25 #16 AWG, 2 COND. TWISTED PAIR 26 26 #16 AWG, 3 COND. TWISTED PAIR 27 28 #16 AWG, 3 COND. TWISTED PAIR FUEL FLOW SUPPLY SENSOR 28 #16 AWG, 3 COND. TWISTED PAIR 29 29 SPARE 30 30 #16 AWG, 3 COND. TWISTED PAIR (- 31 #16 AWG, 3 COND. TWISTED PAIR FUEL FLOW RETURN SENSOR 32 32 33 #16 AWG, 3 COND. TWISTED PAIR 33 TYPE "K" THERMOCOUPLE EXHAUST TEMP TYPE "K" THERMQCQUPLE TC-1 TC-1 TYPE "K" THERMOCOUPLE TC-2 TC-2 #14 AWG

BATTERY BC-1 CHARGER ALARM BC-2

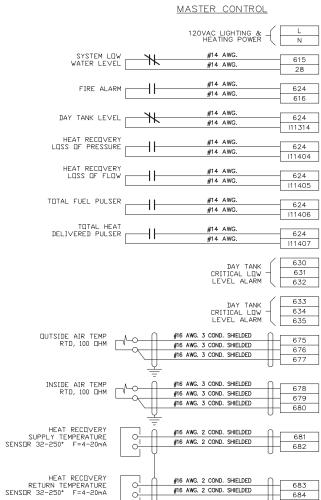
GENERATOR 1

#10 AW

BC-1

BC-2

#14 AWG



GENERATOR 3

		_		
ENGINE BATTERIES (+)	1	1 R	#10 AWG	- 1
ENGINE BATTERIES (-)	2	BK	#10 AWG	- 2
GENERATOR ACTUATOR	3	BL-BK	#12 AWG	- 3
GENERATOR ACTUATOR	4	BL-WH	#12 AWG	- 4
SPARE	5	1		5
		1		
FUEL VALVE SOLENOID	6	<u> ү–вк</u>	#14 AWG	6
STARTER RELAY	7	0	#14 AWG	- 7
		1		
HIGH DIL TEMP SWITCH	8	<u>ן Y−R</u>	#14 AWG	- 8
(24VDC)	9	0-R	#14 AWG	- 9
	<u> </u>	1		
LOW OIL LEVEL SWITCH	10	1 Y-WH	#14 AWG	- 10
(24VDC)	11	0-WH	#14 AWG	- 11
		1		
	12	ר #16 AWG,	2 COND. TWISTED PAIR	- 12
MAGNETIC PICKUP	13	#16 AWG,	2 COND. TWISTED PAIR	- 13
- Hu	- 14	0	U	
1	15	#16 AWG,	2 COND. TWISTED PAIR	- 15
QIL PRESSURE SENSOR	16	#16 AWG,	2 COND. TWISTED PAIR	- 16
		- 0	U	
JACKET WATER TEMP	17	ן_ <u>(</u> ן #16 AWG ,	2 COND. TWISTED PAIR	17
SENSOR	18	#16 AWG,	2 COND. TWISTED PAIR	18
	- 19	1-0	U	10
-1	20	#16 AWG,	3 COND. TWISTED PAIR	- 20
COQLANT RETURN	21	# 16 A₩G,	3 COND. TWISTED PAIR	- 21
TEMP RTD	22	#16 AWG,	. 3 COND. TWISTED PAIR	22
	22		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
SPARE	23	1		23
of Alle	20	1		20
	24	1		
VOLTAGE REGULATOR	25		2 COND. TWISTED PAIR	- 25
AUX BIAS INPUT	26	#16 AWG,	2 COND. TWISTED PAIR	26
		L C	Û	
	27		3 COND. TWISTED PAIR	27
UEL FLOW SUPPLY SENSOR	28		3 COND. TWISTED PAIR	- 28
	29		3 COND. TWISTED PAIR	29
		<u>'</u>	U	20
SPARE	30	1 =		30
		1		
	31	}_ <u></u> , #16 AWG ,	3 COND. TWISTED PAIR	- 31
UEL FLOW RETURN SENSOR	32			- 32
	33		3 COND. TWISTED PAIR	- 33
		' <u>¥</u>	U	
EXHAUST TEMP TYPE "K"	TC-1		"K" THERMOCOUPLE	TC-1
THERMOCOUPLE	TC-2	TYPE	"K" THERMOCOUPLE	TC-2
		1		
BATTERY	BC-1	}	#14 AWG	BC-1
CHARGER ALARM	BC-2	¦	#14 AWG	BC-2
		-		

			I					
	B 09-21-16 AS BU			JILT				RAC
	REV. DATE			DESCRIPTION				BY
	PURCHASE ORDER NO. ERNIE BAUMGARTNER CONTROLLED POWER JOB NO. 8 TITLE: INTERCONNECTION DIAGRAM							8438CC
	SCALE: NONE DWG. No: 8438CC-			DATE: 08-23-16			DWN. BY: GPN	
				7101–D	SHEET: 1	OF 1	CKD. BY: JMD	
	JOB: CROOKED CREEK EASYGEN UPGRADE							
NOTICE MATCM AND SUBJECT MATTER HEREOF AL SOLE AND EXCLUSUE PROPERTY ER, NC., AND ARE NOT TO BE COPIED. D IN ANY MANNER FOR ANY PURPOSE T WRITTEN CONSENT OR DIRECTION.	ENGINEERED & MANUFACTURED BY Controlled Power, Inc. BOTHELL, WASHINGTON USA (425)-485-1778 www.controlledpowerinc.com							