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DESCRIPTION	SHEET
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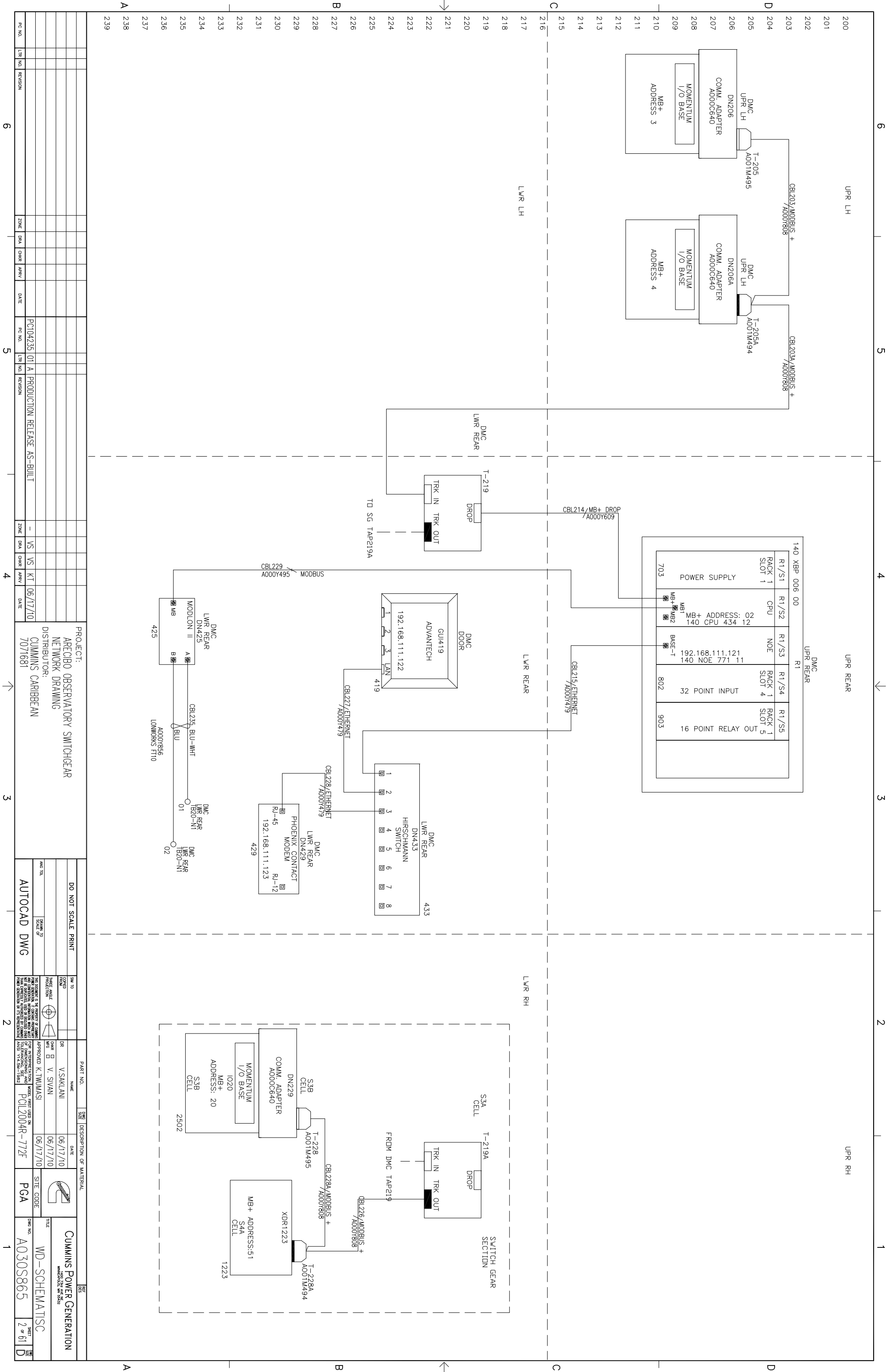
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DESCRIPTION	SHEET
SG S1B CELL PANEL LAYOUT BOM	41
SG S1B DOOR PANEL LAYOUT	42
SG S1B DOOR PANEL LAYOUT BOM	43
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SG S2A DOOR PANEL LAYOUT	46
SG S2A DOOR PANEL LAYOUT BOM	47
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SG S2B DOOR PANEL LAYOUT BOM	51
SG S3A CELL PANEL LAYOUT	52
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PC NO.	LTN NO.	REVISION	ZONE	DRN	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
 ARECIBO OBSERVATORY SWITCHGEAR
 TABLE OF CONTENTS
 DISTRIBUTOR:
 CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT	SCALE TO	SCALE UP	SCALE DOWN
AUTOCAD DWG			

DATE	DESCRIPTION OF MATERIAL	SITE CODE	TITLE	DWG NO.	SHEET
06/17/10		PGA	CUMMINS POWER GENERATION	A030S865	1 of 61



PC NO.	LWR NO.	REVISION	ZONE	DATA	CHKD	APPV	DATE	PC NO.	LWR NO.	REVISION	ZONE	DATA	CHKD	APPV	DATE
								PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

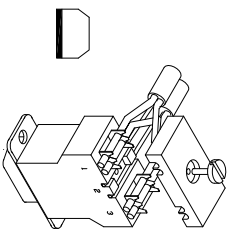
PROJECT: ARECIBO OBSERVATORY SWITCHGEAR NETWORK DRAWING
 DISTRIBUTOR: CUMMINS CARIBBEAN 7071681

DO NOT SCALE PRINT	SW ID	DATE
<input type="checkbox"/>	DESIGN	06/17/10
<input type="checkbox"/>	REVISION	
<input type="checkbox"/>	PRODUCTION	

PART NO.	NAME	DATE	DESCRIPTION OF MATERIAL
DR	V.SAKLANI	06/17/10	
CHK	V. SIVAN	06/17/10	
APPROVED	K. TAJUMASI	06/17/10	

TITLE	DWG NO.	SHEET
CUMMINS POWER GENERATION	WD-SCHEMATISC	2 of 61

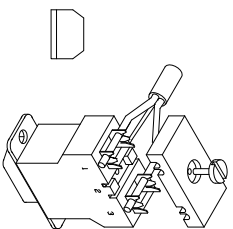
MODBUS PLUS CABLE CONNECTORS



PIN	WIRE COLOR
PIN 1	WHITE/BLUE
PIN 2	SHIELD
PIN 3	BLUE/WHITE

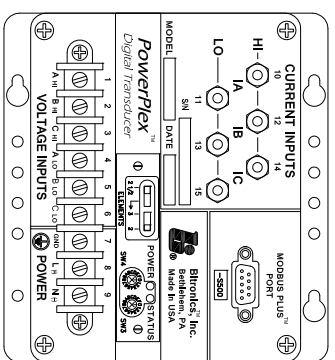
NOTE:
REMOVE 3" OF THE CABLE OUTER JACKET AND SHIELDS (THIS WILL EXPOSE THE 2 SIGNAL WIRES AND DRAIN WIRE). INSERT THE CONNECTOR INTO THE CONNECTOR TOOL (#AAS-#BPL-001) WITH THE CAP REMOVED. INSERT THE WIRES AS SHOWN (BLU OR BLK INTO POSITION #3; DRNIN WIRE, POSITION #2; WHT WIRE, POSITION #1). REPLACE THE CAP (WITHOUT THE SCREW) AND CLOSE THE TOOL FIRMLY. INSERT THE CAP SCREW AND TIGHTEN.

NOTE:
MODBUS PLUS CABLE SHOULD BE A MINIMUM OF 10 FEET BETWEEN TERMINATIONS. THE NETWORK SHOULD BE A MAXIMUM OF 1500 FEET.



PIN	WIRE COLOR
PIN 1	WHITE/BLUE
PIN 2	SHIELD
PIN 3	BLUE/WHITE

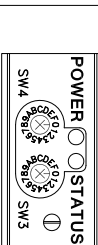
BITRONICS TRANSDUCER



BITRONICS TRANSDUCER
MB+ ADDRESS:XX

NOTE:
MODBUS PLUS CABLE SHOULD BE A MINIMUM OF 10 FEET BETWEEN TERMINATIONS. THE NETWORK SHOULD BE A MAXIMUM OF 1500 FEET.

ADDRESS SWITCHES

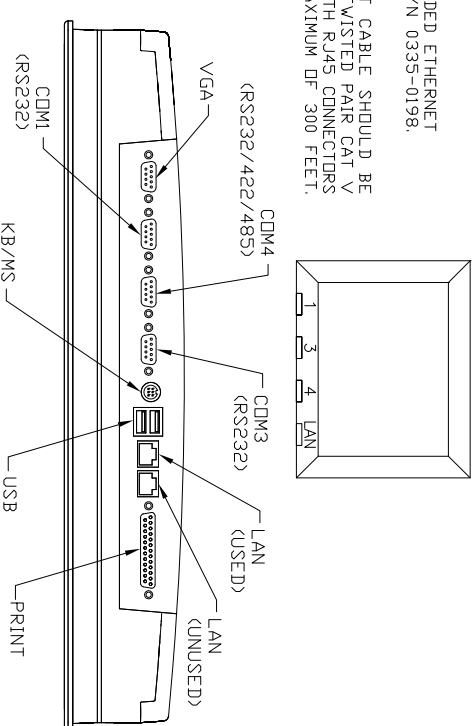


ADDRESS	SW4	SW3
01	0	0
02	0	1
03	0	2
04	0	3
05	0	4
06	0	5
07	0	6
08	0	7
09	0	8
10	0	9
11	0	A
12	0	B
13	0	C
14	0	D
15	0	E
16	0	F

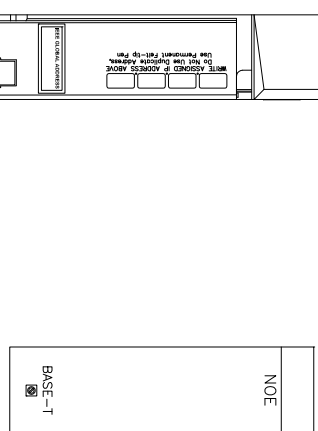
ADVANTECH TOUCHSCREEN

NOTE:
RECOMMENDED ETHERNET CABLE P/N 0335-0198.

NOTE:
ETHERNET CABLE SHOULD BE MINIMUM TWISTED PAIR CAT V CABLE WITH RJ45 CONNECTORS AND A MAXIMUM OF 300 FEET.



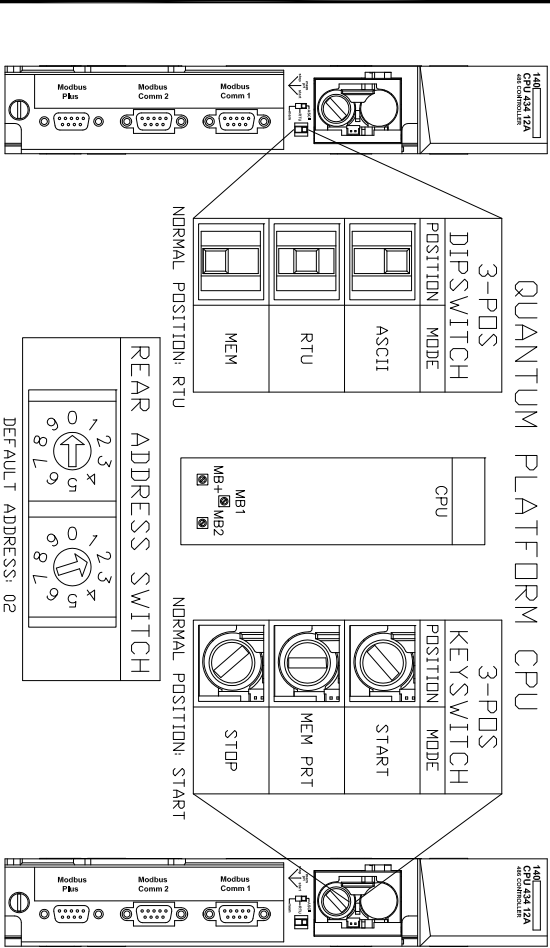
QUANTUM NOE MODULE



NOTE:
RECOMMENDED ETHERNET CABLE P/N 0335-0198.

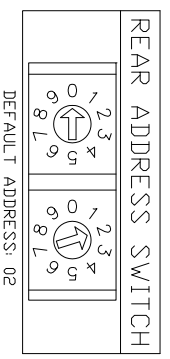
NOTE:
ETHERNET CABLE SHOULD BE MINIMUM TWISTED PAIR CAT V CABLE WITH RJ45 CONNECTORS AND A MAXIMUM OF 300 FEET.

QUANTUM PLATFORM CPU



3-POS DIPSWITCH POSITION: MODE

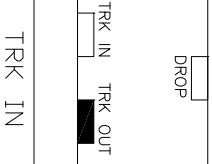
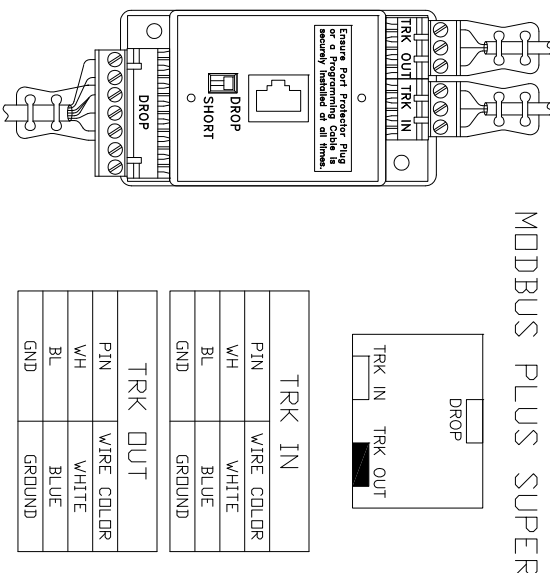
3-POS KEYPAD POSITION: MODE



REAR ADDRESS SWITCH
NORMAL POSITION: RTU
DEFAULT ADDRESS: 02

DEFAULT ADDRESS: 02

MODBUS PLUS SUPER TAP



PIN	WIRE COLOR
1	WHITE
2	BLUE
3	GROUND

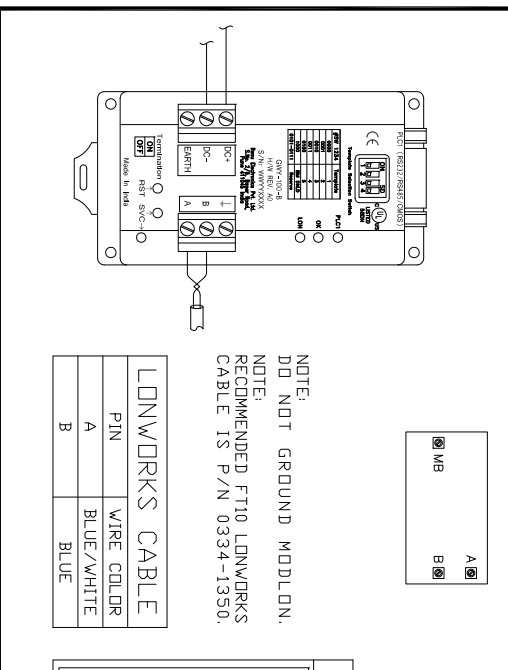
PIN	WIRE COLOR
1	WHITE
2	BLUE
3	GROUND

NOTE:
CONNECT ALL 3 DROP GROUND WIRES TOGETHER TO PIN 3.

NOTE:
MODBUS PLUS CABLE SHOULD BE A MINIMUM OF 10 FEET BETWEEN TERMINATIONS. THE NETWORK SHOULD BE A MAXIMUM OF 1500 FEET.

PIN	WIRE COLOR
1: BL	ORANGE
2: WH	WHITE
3: GND	GROUND (3)
4: BL	BLUE
5: WH	WHITE
6: GND	N/C
7: GND	N/C

MDDLON GATEWAY

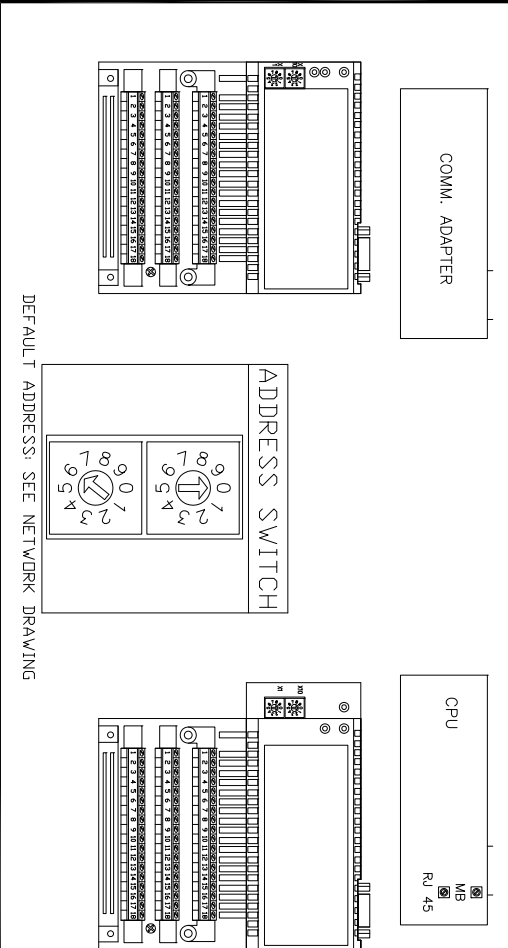


NOTE:
DO NOT GROUND MDDLON.

NOTE:
RECOMMENDED FT10 LONWORKS CABLE IS P/N 0334-1350.

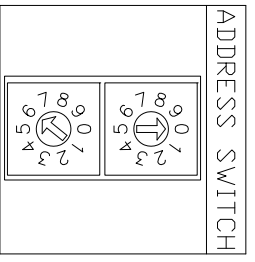
PIN	WIRE COLOR
A	BLUE/WHITE
B	BLUE

MOMENTUM ADAPTERS



COMM. ADAPTER
MB
RJ 45

CPU
MB
RJ 45



ADDRESS SWITCH
DEFAULT ADDRESS: SEE NETWORK DRAWING

REVISION		DATE		APPROVED		ZONE		ZONE		DATE		DATE		DATE	

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR NETWORK DETAIL
DISTRIBUTOR: CUMMINS CARIBBEAN 707/681

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR NETWORK DETAIL
DISTRIBUTOR: CUMMINS CARIBBEAN 707/681

DO NOT SCALE PRINT

AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL	BY	APP

DATE	BY	APP	DATE	BY	APP
06/17/10	V.SAKLANI		06/17/10	V.SIVAN	
06/17/10	V.SIVAN		06/17/10	V.SIVAN	

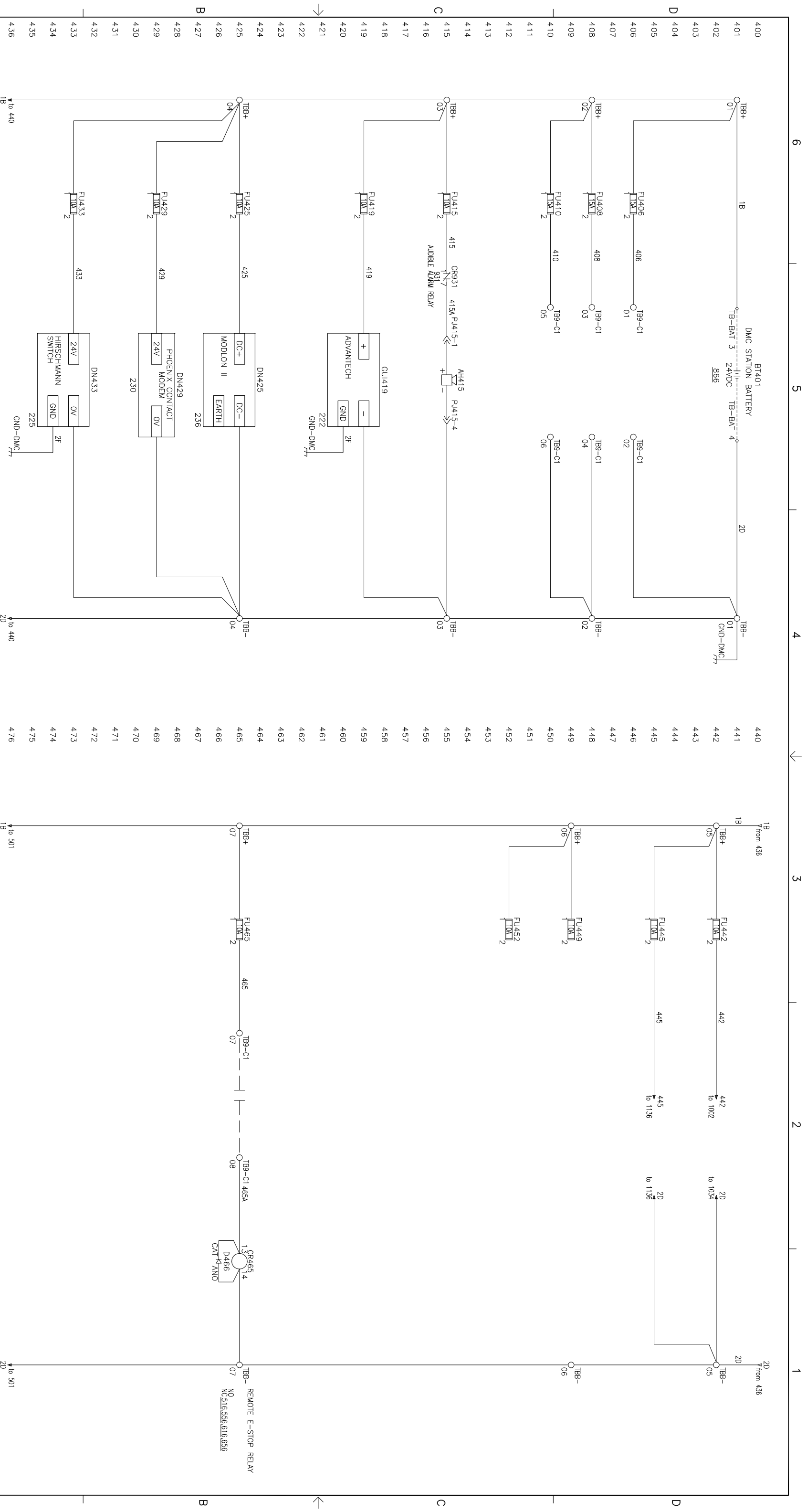
PART NO. P0104235-01 A PRODUCTION RELEASE AS-BUILT

CUMMINS POWER GENERATION

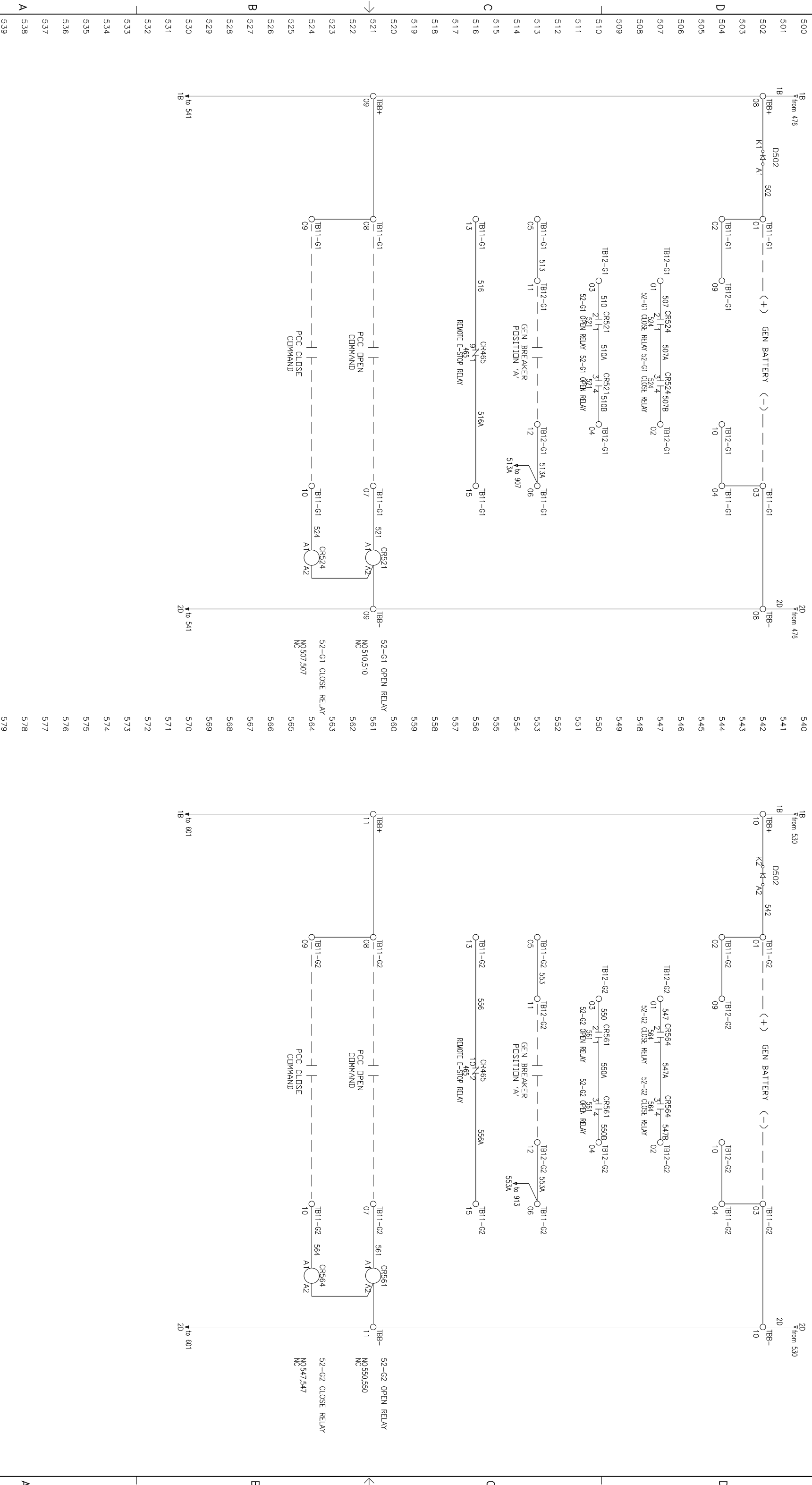
WD-SHEMATISC

WD-305865

3 of 61



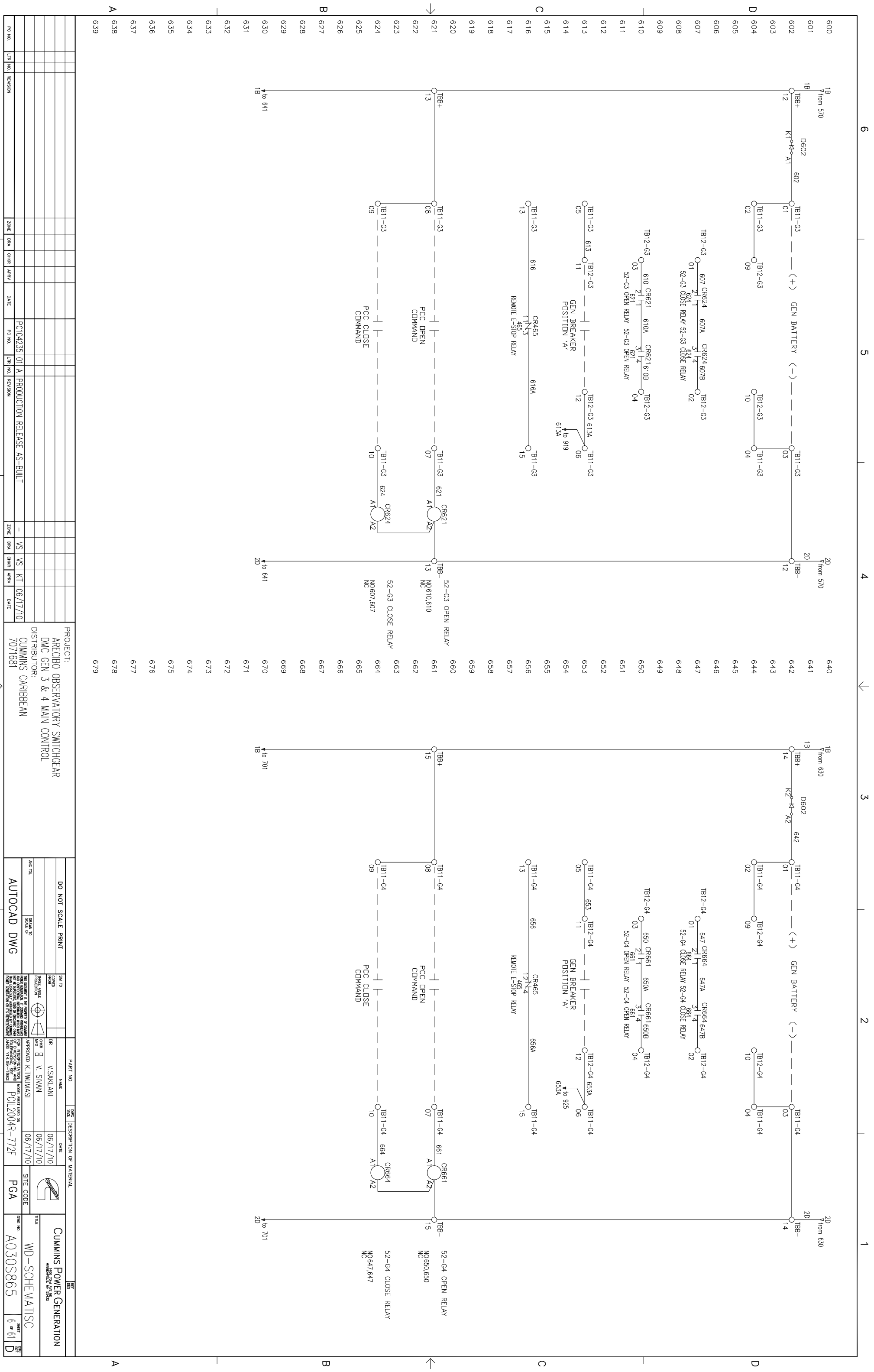
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439																AUTOCAD DWG			
438																			
437																SHEET 4 OF 6			
436																TITLE: CUMMINS POWER GENERATION			
435																SITE CODE: PG A			
434																DWG NO. A030S865			
433																DATE: 06/17/10			
432																APPROVED: K. TUMWASI			
431																DATE: 06/17/10			
430																DATE: 06/17/10			
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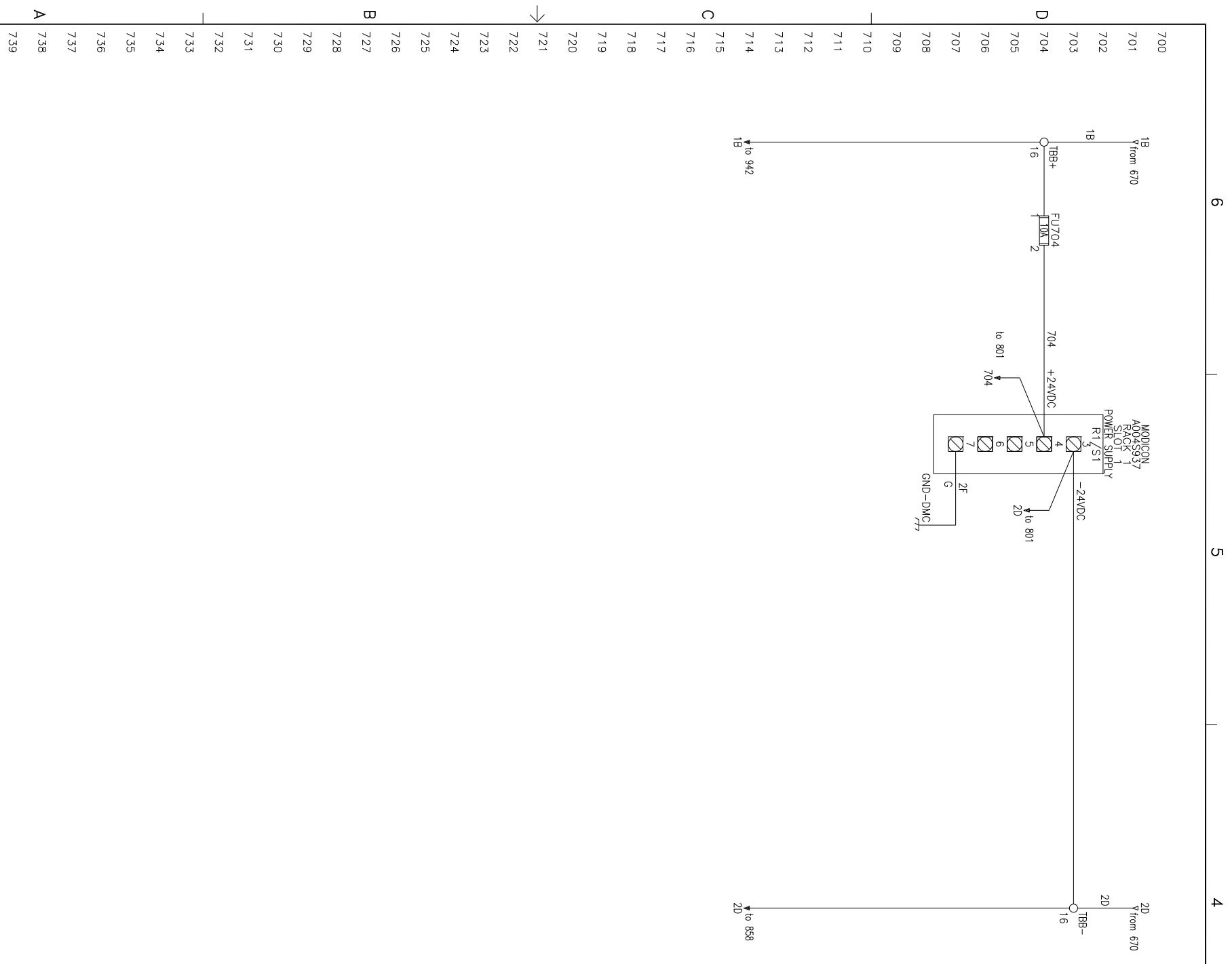
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								PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT: ARCEBO OBSERVATORY SWITCHGEAR
 DMC GEN 1 & 2 MAIN CONTROL
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

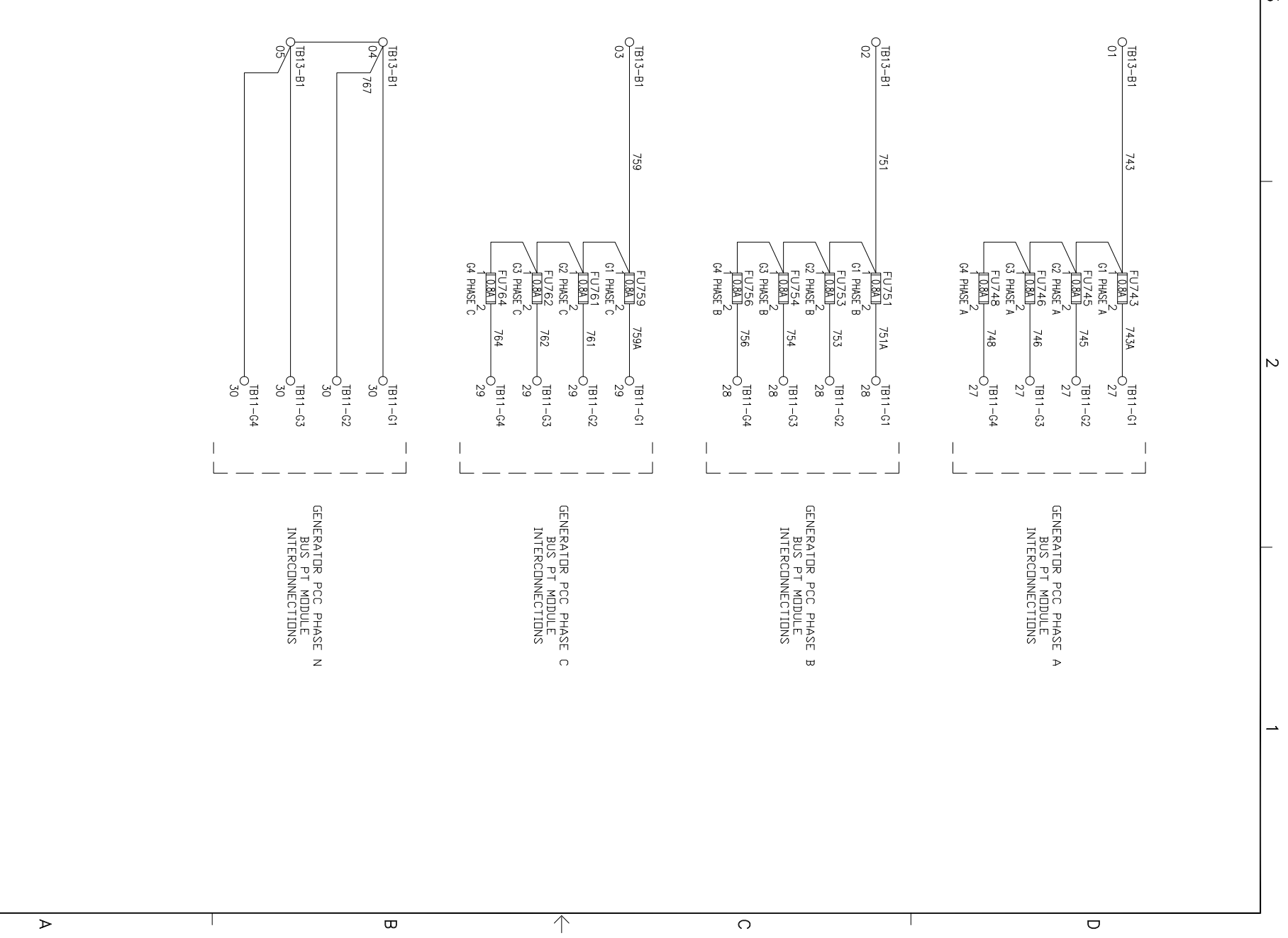
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01	06/17/10	DIR	V.SAKLANI		CUMMINS POWER GENERATION		PGA	WD - SCHEMATISC	5	6
02	06/17/10	CHKD	V. SIVAN					A030S865		D
03	06/17/10	APPV	K. TIMUNASI							



PC NO.	LTN NO.	REVISION	ZONE	SKN	CHKD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	SKN	CHKD	APPRV	DATE	PROJECT: ARCEBO OBSERVATORY SWITCHGEAR DMC GEN 3 & 4 MAIN CONTROL DISTRIBUTOR: CUMMINS CARIBBEAN 7071681					
																	DO NOT SCALE PRINT				
																	AUTOCAD DWG				
																	PART NO. NAME DATE DESCRIPTION OF MATERIAL				
																	DATE: 06/17/10				
																	APPROVED: K. JMWJAS				
																	SITE CODE: PGA				
																	TITLE: WD-SCHEMATISC				
																	DWG NO. A030S865 SHEET 6 OF 61 DATE: 06/17/10				



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PC NO.	LTN NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE		
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT			VS	VS	KT	06/17/10

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 BUS PT CONNECTION & PLC POWER
 DISTRIBUTOR:
 CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT

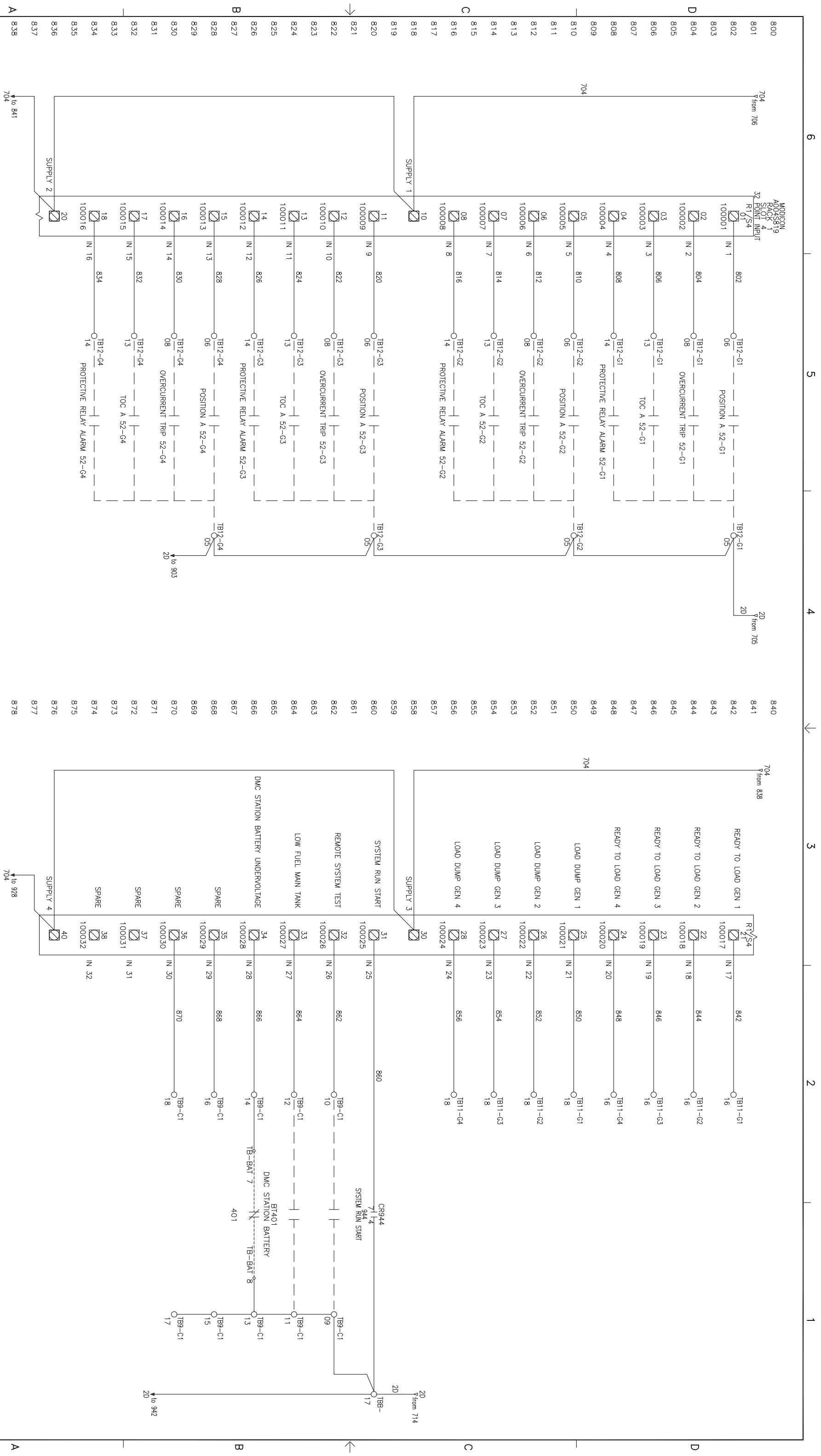
AUTOCAD DWG

SCALE: 1" = 10'

DATE: 06/17/10

APPROVED: K. TIMUWASI

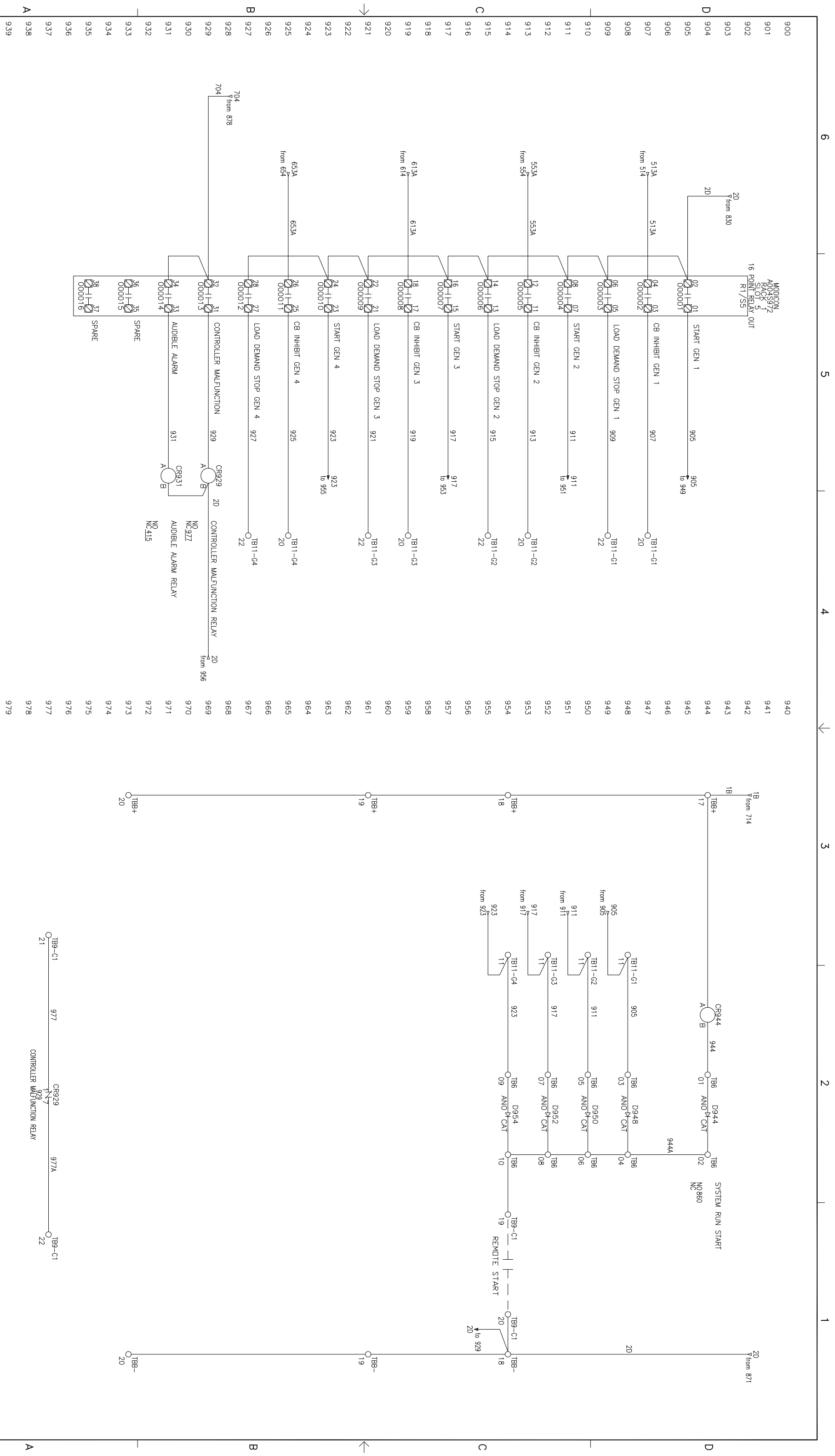
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	V.SAKILANI	06/17/10	GENERATOR PCC PHASE N BUS PT MODULE INTERCONNECTIONS	PGA	CUMMINS POWER GENERATION WD-SCHEMATISC



PC NO.	LT# NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	PC NO.	LT# NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE
								PC1014235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:		ARCIBO OBSERVATORY SWITCHGEAR													
DISTRIBUTOR:		GENERATOR 1-4 PLC INPUTS													
		CUMMINS CARIBBEAN													
		7071681													

DO NOT SCALE PRINT		SCALE 1"		AUTOCAD DWG											
REV	DATE	BY	CHKD	DESCRIPTION OF MATERIAL											
	06/17/10	V.SAKLANI		CUMMINS POWER GENERATION											
	06/17/10	V. SIVAN		WD-SCHEMATISC											
	06/17/10	K. THUMMASI		PCL2004R-772F											
				PGA											
				A030S865											
				8 of 61											



PC NO.	TRM NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	PC NO.	TRM NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	
								PC104235	01	A PRODUCTION RELEASE AS-BUILT			VS	VS	KT	06/17/10

PROJECT:		ARCIBO OBSERVATORY SWITCHGEAR	
GENERATOR:		GENERATOR 1-4 PLC OUTPUTS	
DISTRIBUTOR:		CUMMINS CARIBBEAN	
DISTRIBUTOR:		7071681	

DO NOT SCALE PRINT	REV	DATE	DESCRIPTION OF MATERIAL
	01	06/17/10	CUMMINS POWER GENERATION
	02	06/17/10	WD - SCHEMATISC

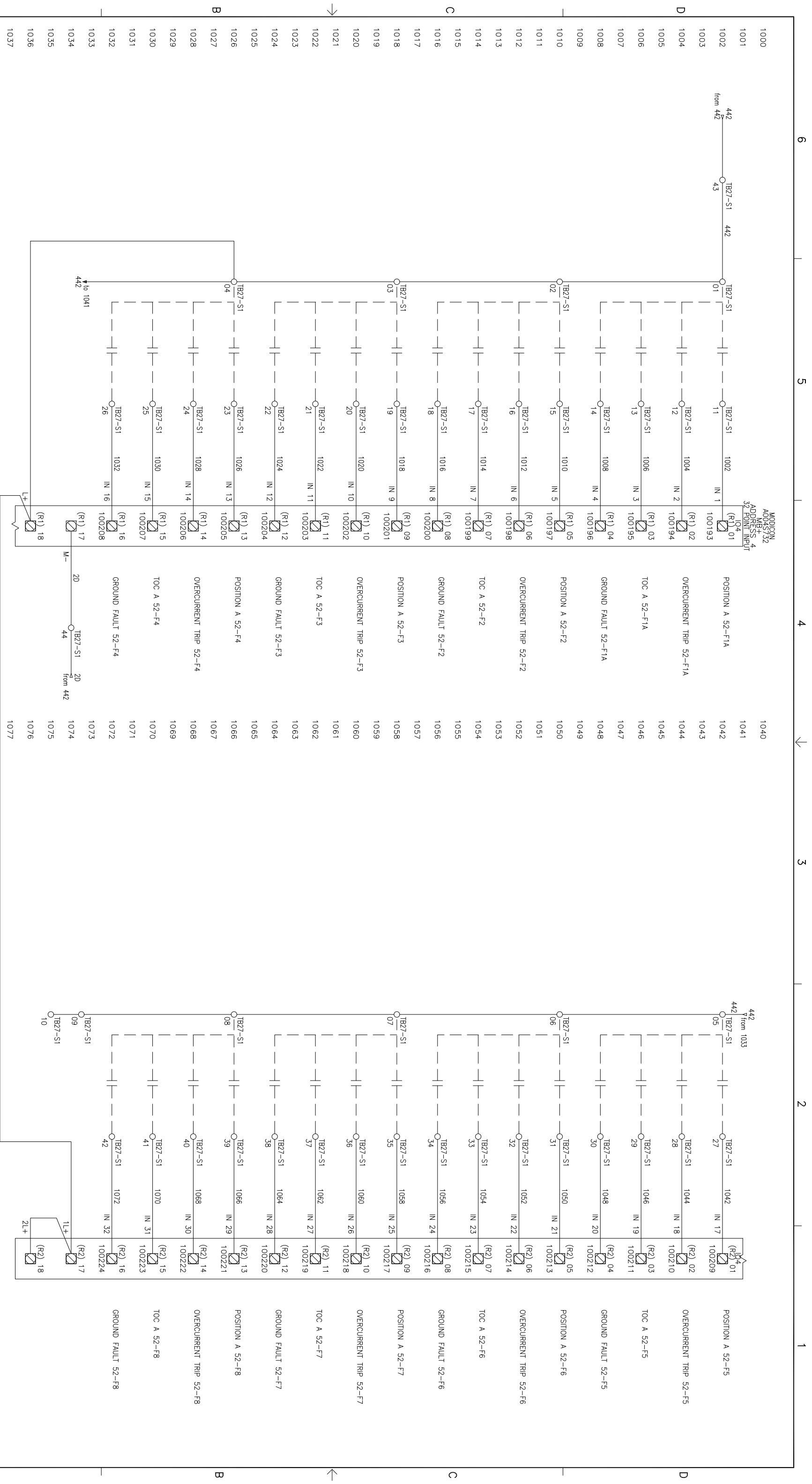
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APPROVED	K. TIMUWASI
DATE	06/17/10
APPROVED	V. SIVAN
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APPROVED	V. SIVAN

DATE	06/17/10
APPROVED	K. TIMUWASI
DATE	06/17/10
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APPROVED	V. SIVAN

DATE	06/17/10
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DATE	06/17/10
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APPROVED	K. TIMUWASI
DATE	06/17/10
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DATE	06/17/10
APPROVED	V. SIVAN

DATE	06/17/10
APPROVED	K. TIMUWASI
DATE	06/17/10
APPROVED	V. SIVAN
DATE	06/17/10
APPROVED	V. SIVAN



PC NO.	LT# NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE	PC NO.	LT# NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE		
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT			VS	VS	KT	06/17/10

PROJECT:		ARCIBO OBSERVATORY SWITCHGEAR	
DISTRIBUTOR:		CUMMINS CARIBBEAN	
PROJECT NO.:		7071681	

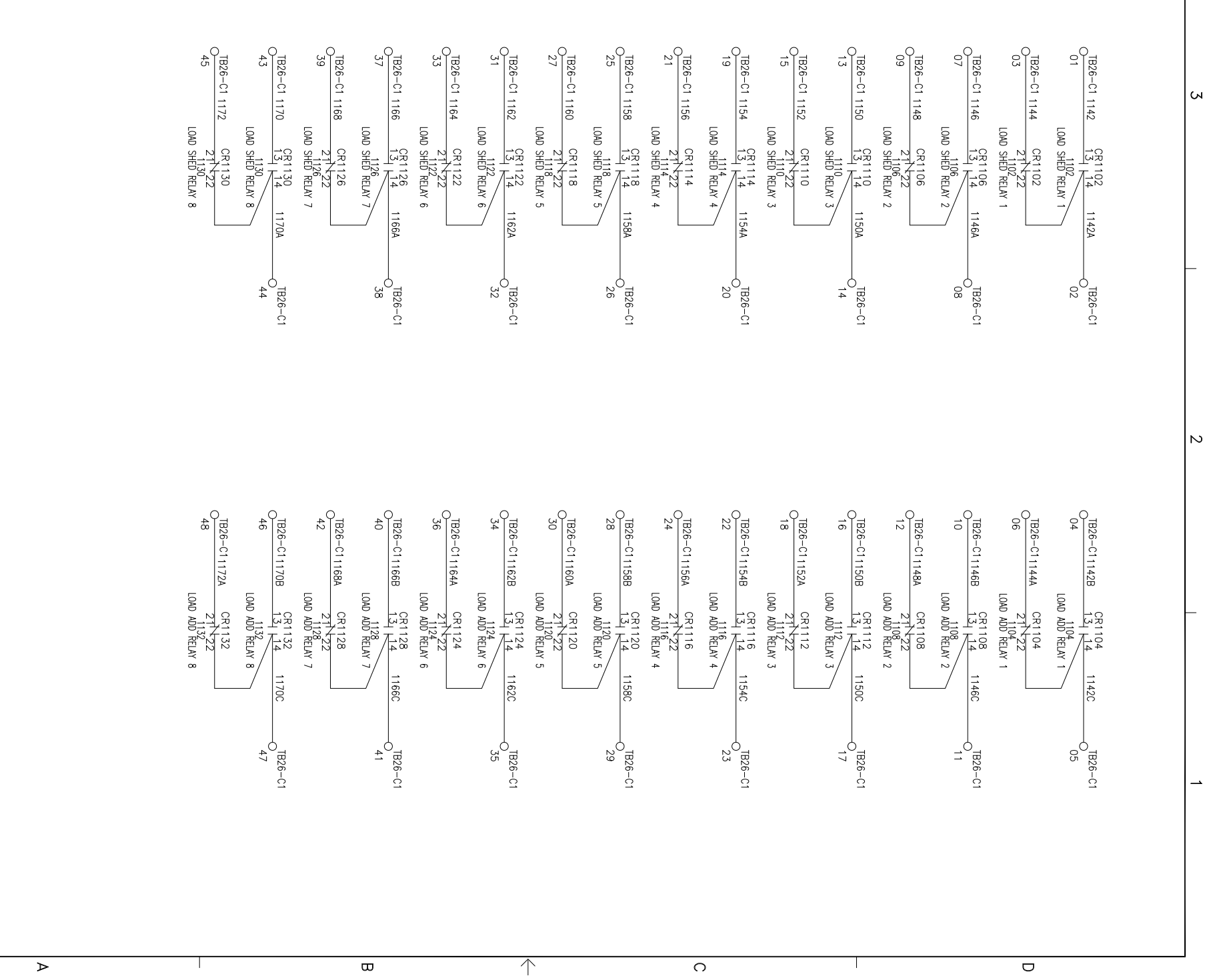
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AUTOCAD DWG		SCALE OF	

REV	DESCRIPTION OF MATERIAL	DATE	BY	CHKD
01	WD - SCHEMATISC	06/17/10	V. SAKLANI	V. SIVAN
02	PGAL2004R-712F	06/17/10	K. TIMJIASI	

CUMMINS POWER GENERATION	WD - SCHEMATISC
MANUFACTURED BY	MANUFACTURED BY
DATE	DATE
DWG NO. A030S865	SHEET 10 of 61
	REV D

PC NO.	LINE NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	PC NO.	LINE NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	
								PC104235	01	A PRODUCTION RELEASE AS-BUILT			VS	VS	KT	06/17/10

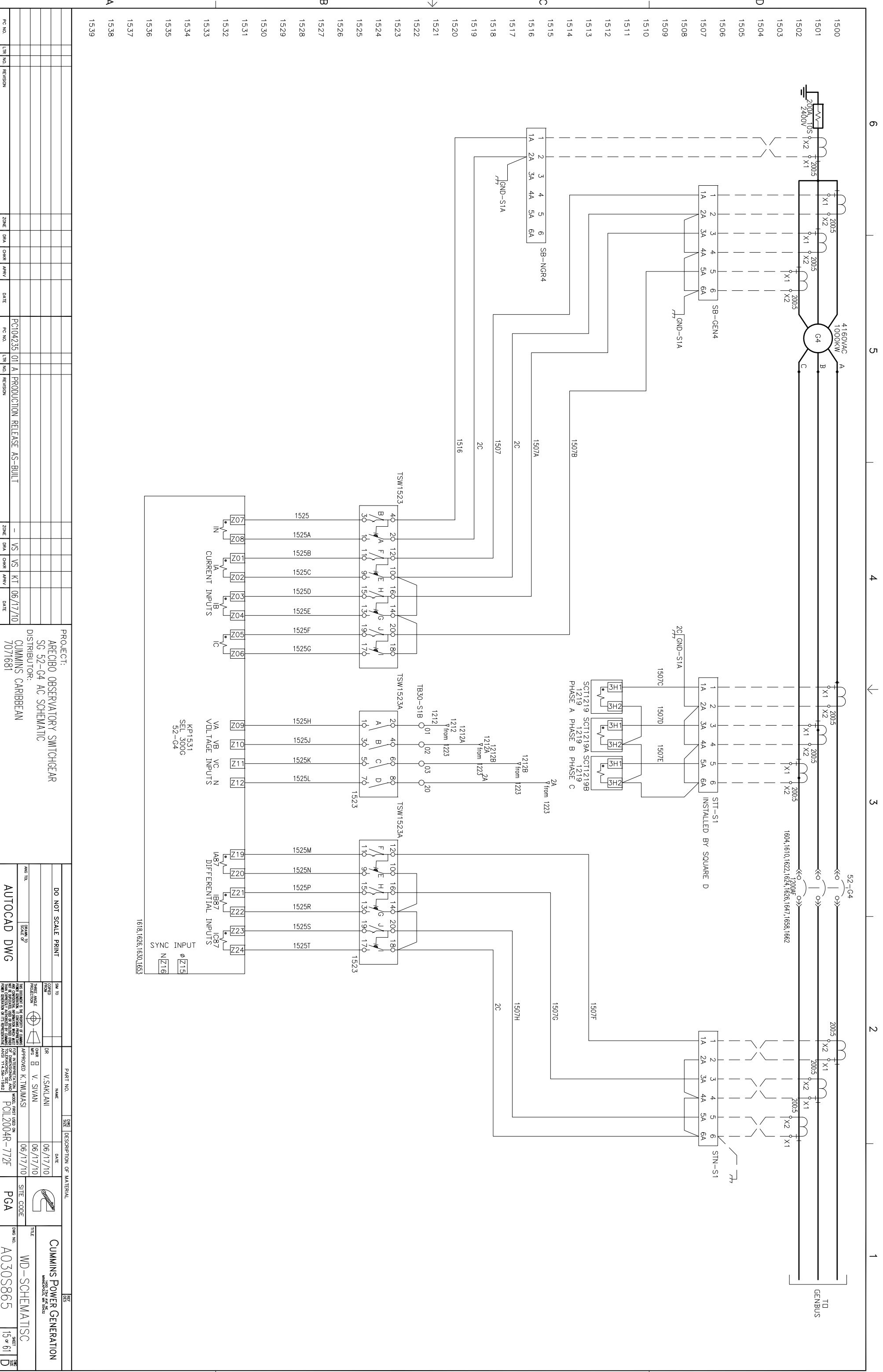
PROJECT: ARCB0 OBSERVATORY SWITCHGEAR
 DMC FEEDER 1-8 LALS
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681



DO NOT SCALE PRINT	SCALE 1"	SCALE 2"	SCALE 3"

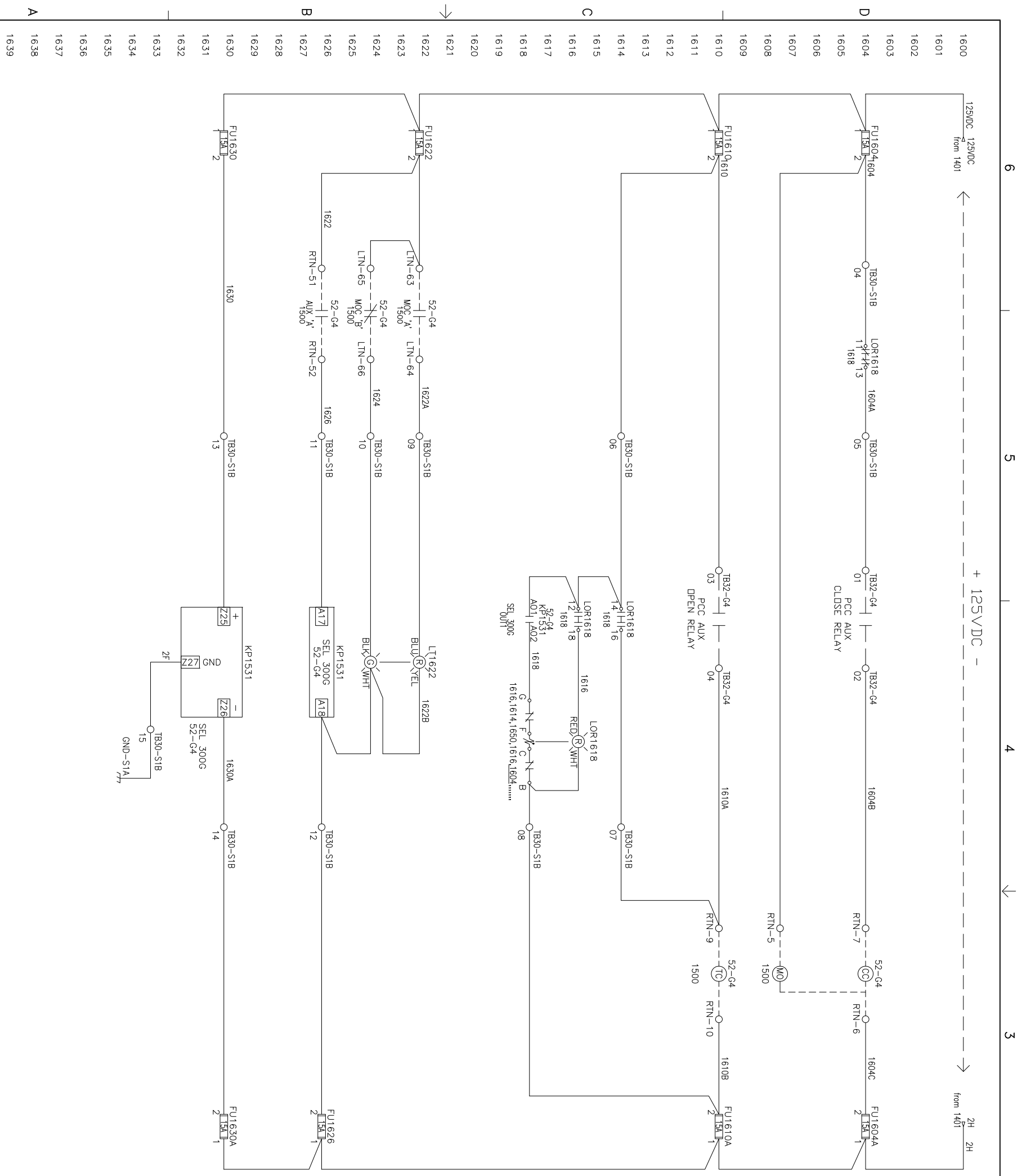
REV	DATE	DESCRIPTION OF MATERIAL
1	06/17/10	DR V.SAKLANI
2	06/17/10	CHK V. SIVAN
3	06/17/10	APPROVED K. JIMWASI

DATE	SITE CODE	TITLE	DWG NO.	SHEET	TOTAL SHEETS
06/17/10	PGA	CUMMINS POWER GENERATION	WD-SCHEMATISC	11 of 61	D

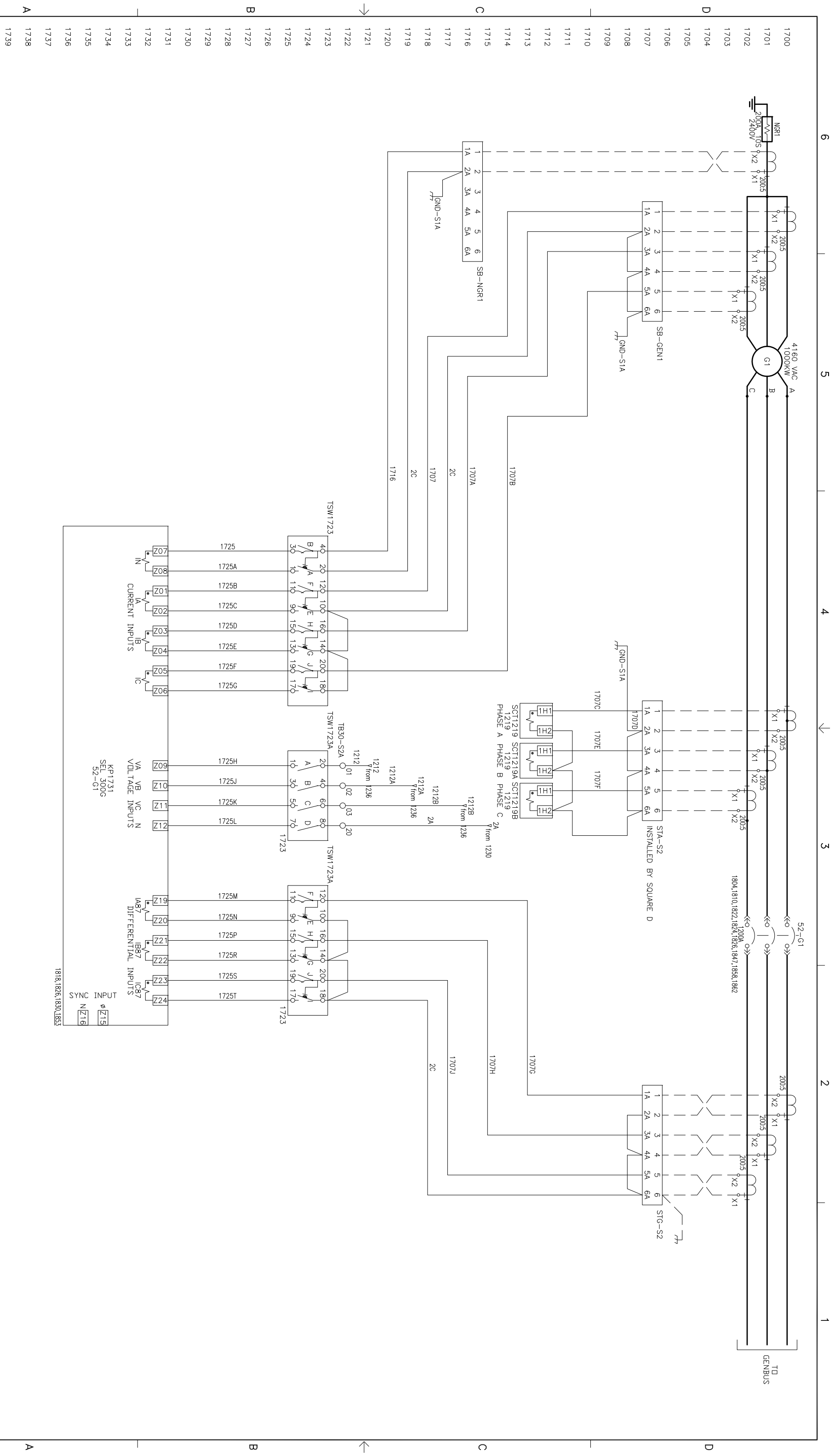


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	PC NO.	LITH NO.	REVISION	ZONE	DATA	CADD	APPROV	DATE		PC NO.	LITH NO.	REVISION	ZONE	DATA	CADD	APPROV	DATE				
	PROJECT: ARECIBO OBSERVATORY SWITCHGEAR SG 52-G4 AC SCHEMATIC DISTRIBUTOR: CUMMINS CARIBBEAN 7071681																				
	PROJECT: ARECIBO OBSERVATORY SWITCHGEAR SG 52-G4 AC SCHEMATIC DISTRIBUTOR: CUMMINS CARIBBEAN 7071681																				
	DO NOT SCALE PRINT			SW NO	GENP	FORM		DATE	DR	V.SAKLANI		DATE	06/17/10	APPROVED: K. JMWASI				FOR APPROVAL AND SIGNATURE OF DIVISION AND ASST. V.P. DIV-1982			
	AUTOCAD DWG							DATE	V. SIVAN		DATE	06/17/10	APPROVED: K. JMWASI				FOR APPROVAL AND SIGNATURE OF DIVISION AND ASST. V.P. DIV-1982				
CUMMINS POWER GENERATION WHD-3200-AR-712F				TITLE	WHD - SCHEMATIC	DWG NO.	A030S865	SHEET 15 of 61				D									



PROJECT:		ARECIBO OBSERVATORY SWITCHGEAR			
DISTRIBUTOR:		SG 52-G4 DC SCHEMATIC			
DISTRIBUTOR:		CUMMINS CARIBBEAN 7071681			
PROJECT:		ARECIBO OBSERVATORY SWITCHGEAR			
DISTRIBUTOR:		SG 52-G4 DC SCHEMATIC			
DISTRIBUTOR:		CUMMINS CARIBBEAN 7071681			
DO NOT SCALE PRINT		SCALE UP		SCALE UP	
AUTOCAD DWG		SCALE UP		SCALE UP	
PART NO.		DATE		DATE	
V.SAKLANI		06/17/10		06/17/10	
V. SIVAN		06/17/10		06/17/10	
APPROVED K. TIMUJASI		DATE		DATE	
PCIL2004R-772F		06/17/10		06/17/10	
PGA		SITE CODE		SITE CODE	
WD-SCHEMATISC		TITLE		TITLE	
A030S865		WD-SCHEMATISC		WD-SCHEMATISC	
16 of 61		SHEET		SHEET	
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PC NO.	TRF NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE	PC NO.	TRF NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE	
								PC104235	01	A	PRODUCTION	RELEASE	AS-BUILT			

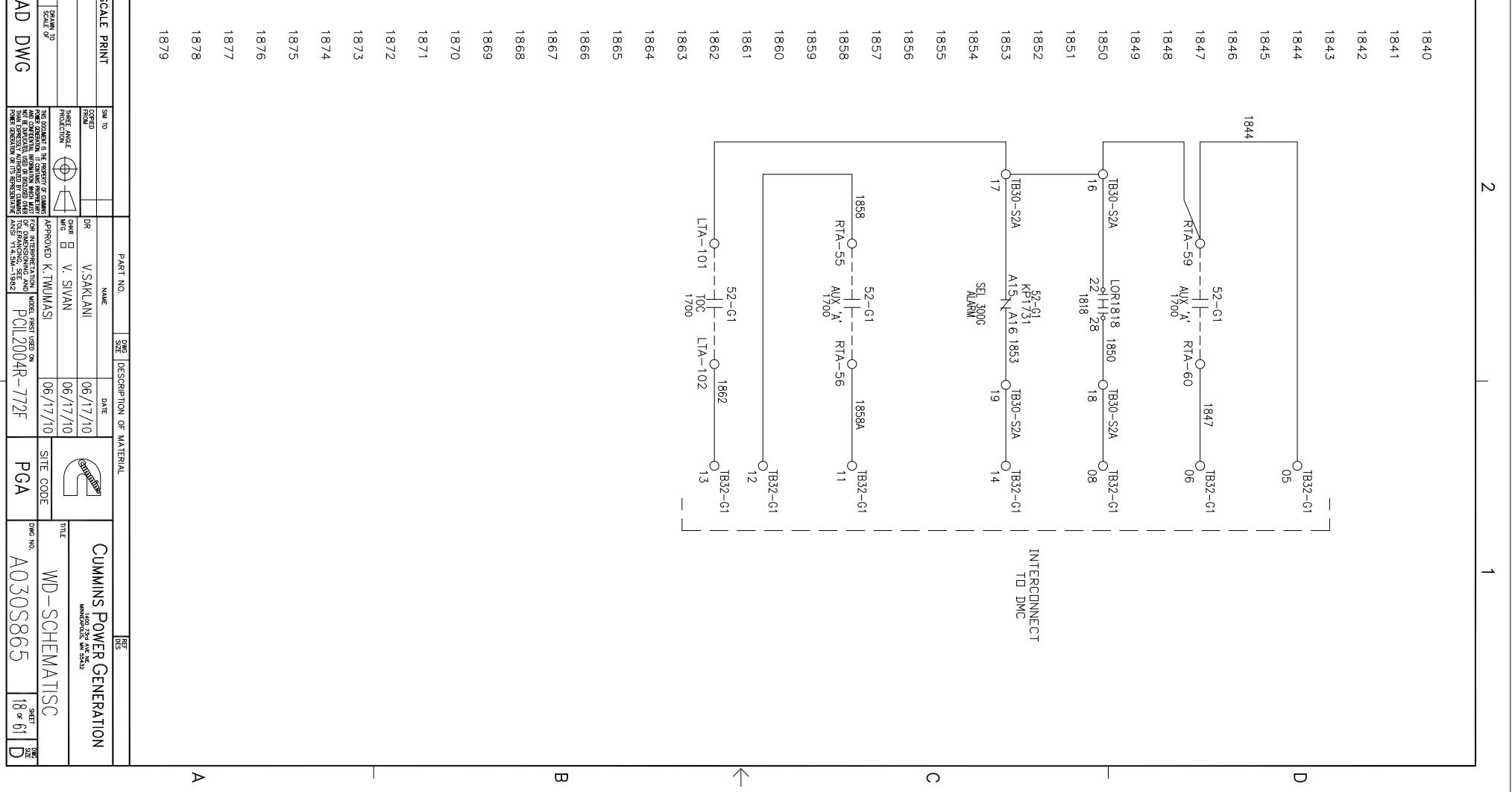
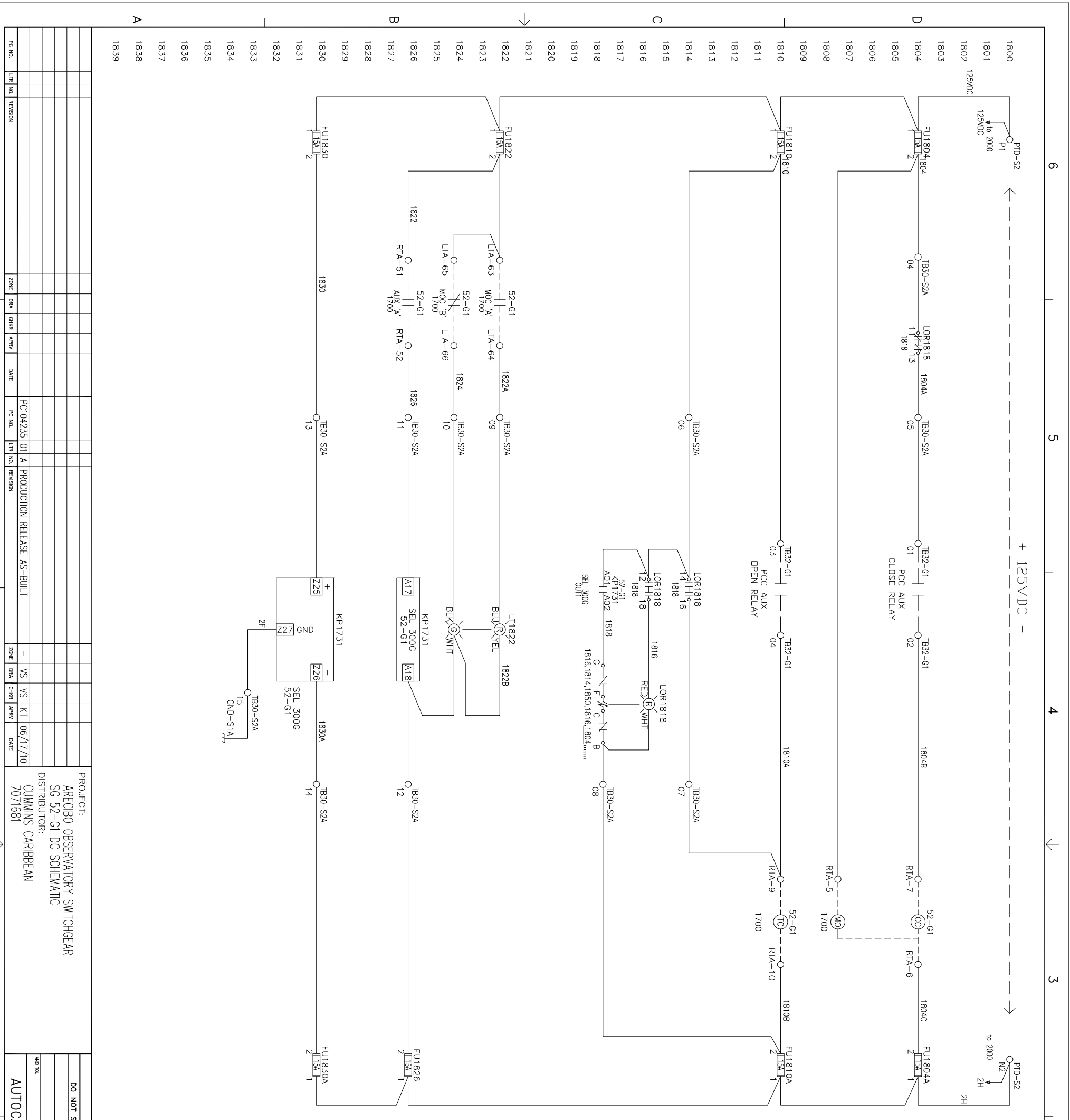
PC NO.	TRF NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE

PROJECT:	ARECIBO OBSERVATORY SWITCHGEAR
DISTRIBUTOR:	SG 52-G1 AC SCHEMATIC
	CUMMINS CARIBBEAN
	7071681

DO NOT SCALE PRINT	SCALE UP
AUTOCAD DWG	SCALE UP

REV	DESCRIPTION OF MATERIAL	DATE	BY	CHKD	APPRV
1	CUMMINS POWER GENERATION	06/17/10	V.SAKLANI		
2	WD - SCHEMATISC	06/17/10	V. SIVANI		
3					

TITLE	CUMMINS POWER GENERATION
DWG NO.	WD - SCHEMATISC
SHEET	17 of 61
DATE	



1800	P1	125VDC	1801	125VDC	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839															
							FU1804						FU1810												FU1822																																

PC NO.	LTR NO.	REVISION	ZONE	DR	CHKD	APPV	DATE	PC NO.	LTR NO.	REVISION	ZONE	DR	CHKD	APPV	DATE																																						
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10																																					

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 SG 52-G1 DC SCHEMATIC
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

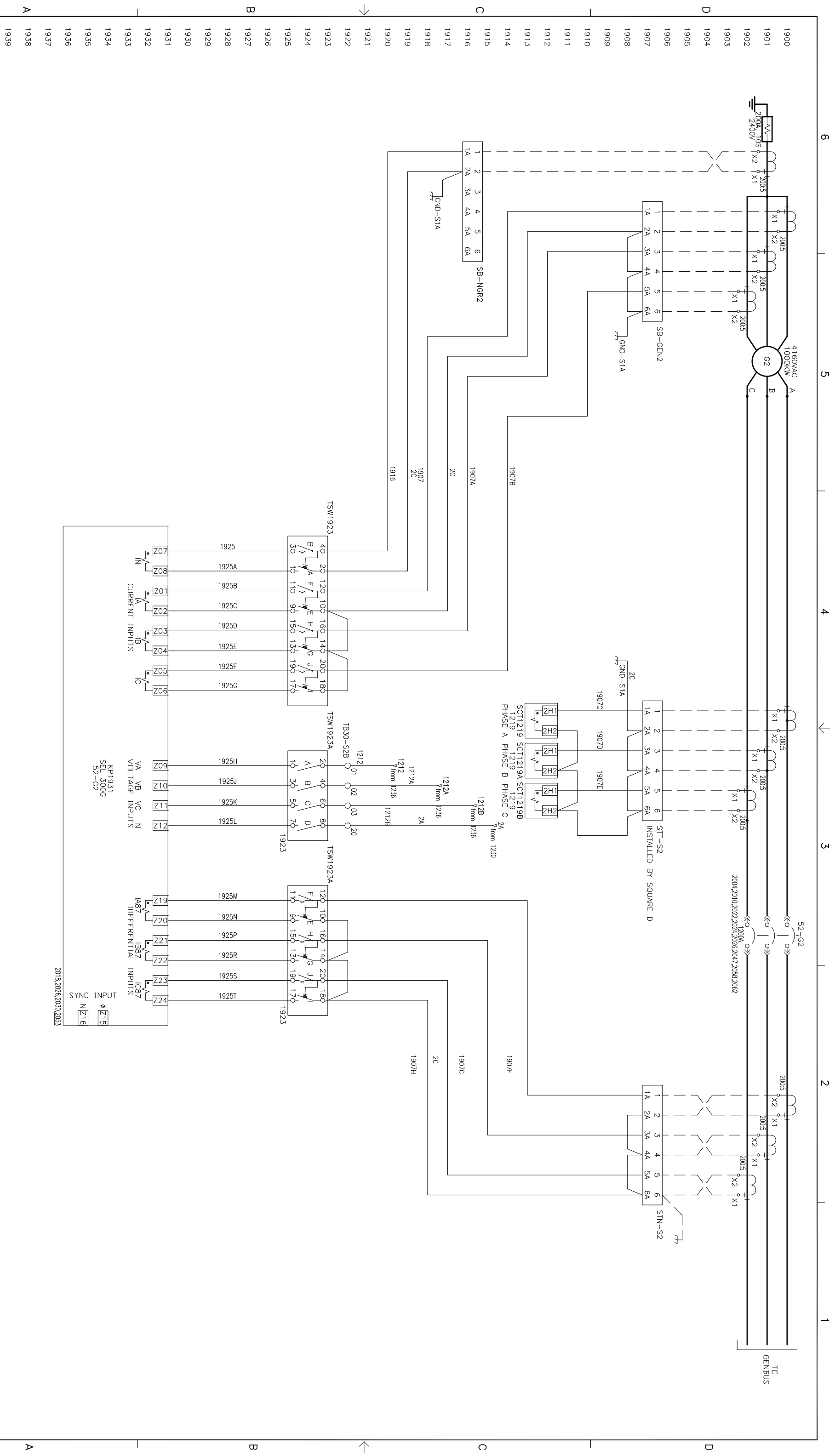
AUTOCAD DWG

SW ID	DATE	DESCRIPTION OF MATERIAL
DR V.SAKLANI	06/17/10	
CHK V. SIVAN	06/17/10	
APPV K.T.MUJASI	06/17/10	

PART NO. **PCIL2004R-772F** SITE CODE **PGA**

TITLE	DATE NO.	SHEET
CUMMINS POWER GENERATION WD-SCHEMATISC	A030S865	18 of 61

DO NOT SCALE PRINT



PC NO.	DATE	BY	CHKD	APPRV	DATE	PC NO.	DATE	BY	CHKD	APPRV	DATE	PC NO.	DATE	BY	CHKD	APPRV	DATE	PC NO.	DATE	BY	CHKD	APPRV	DATE	
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PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 SG 52-G2 AC SCHEMATIC
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT

AUTOCAD DWG

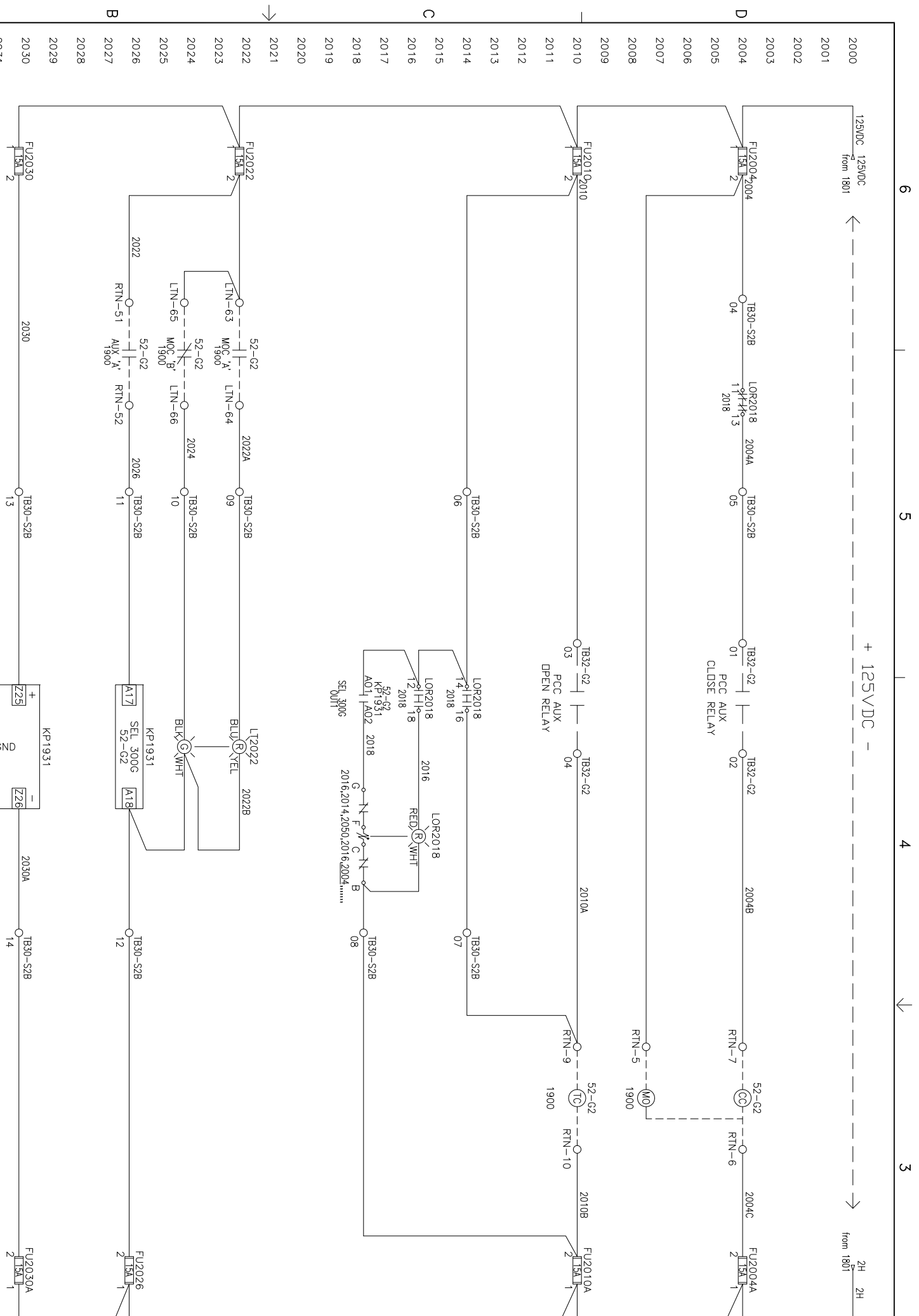
REV	DATE	DESCRIPTION OF MATERIAL
06/17/10	V.SAKLANI	
06/17/10	V. SIVAN	
06/17/10	K. TAJIYASI	

SITE CODE: PGA

TITLE: WD - SCHEMATIC

DWG NO. A030S865

SHEET 19 of 61



PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV.	DATE
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2001							
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PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV.	DATE
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PROJECT: ARECBO OBSERVATORY SWITCHGEAR
 SG 52-G2 DC SCHEMATICS
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT

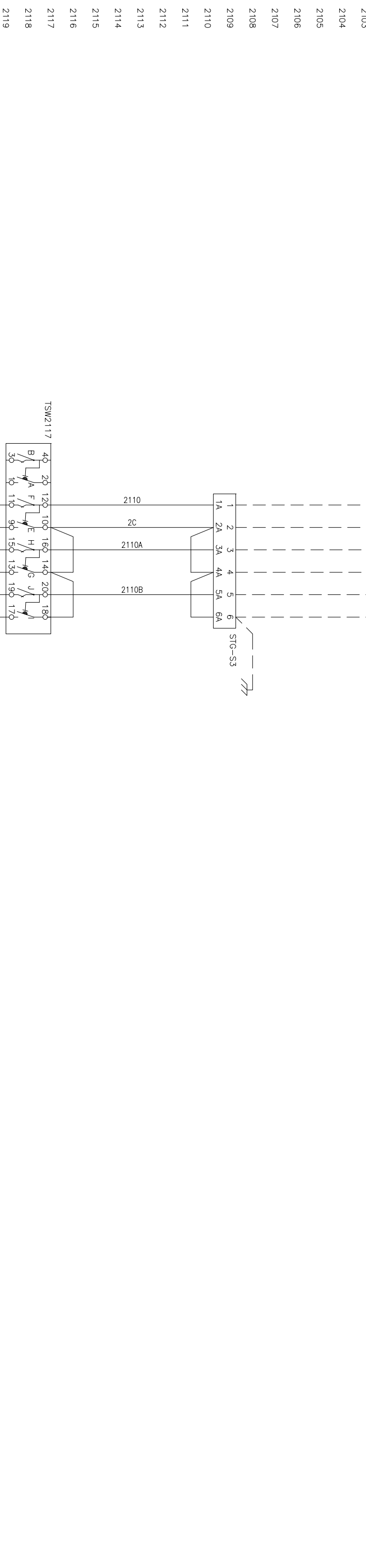
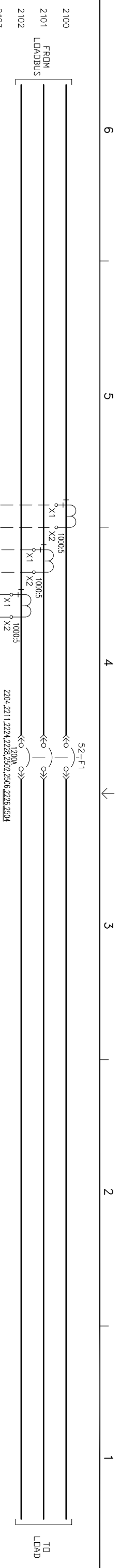
AUTOCAD DWG

PART NO. NAME DATE DESCRIPTION OF MATERIAL

REV	DATE	DESCRIPTION
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2	06/17/10	ISSUE FOR APPROVAL

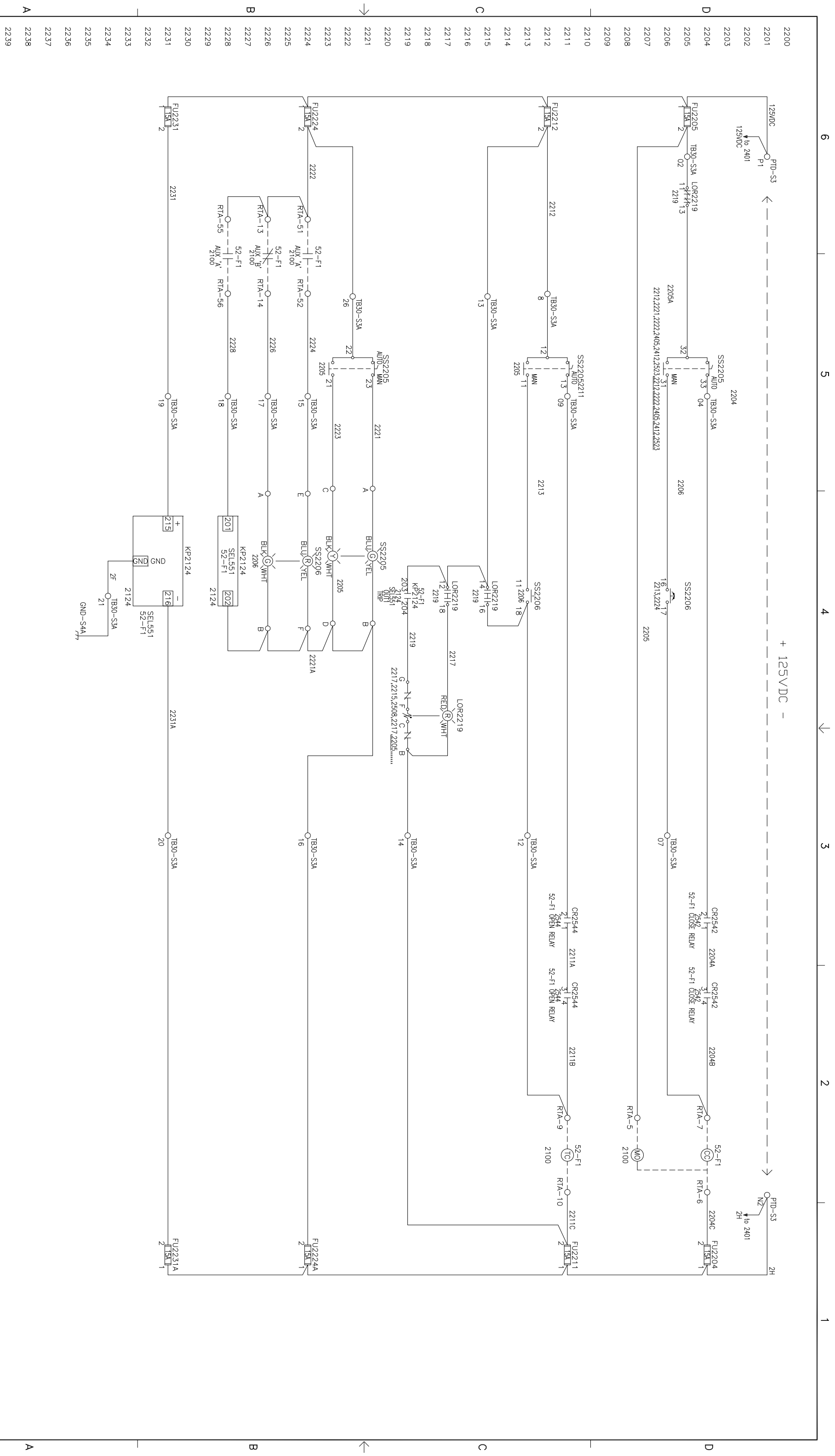
APPROVED: K. TUMUASI
 DATE: 06/17/10

CUMMINS POWER GENERATION
 WASHINGTON, DC, USA
 TITLE: WD - SCHEMATICS
 DWG NO.: A030S865
 SHEET: 20 of 61



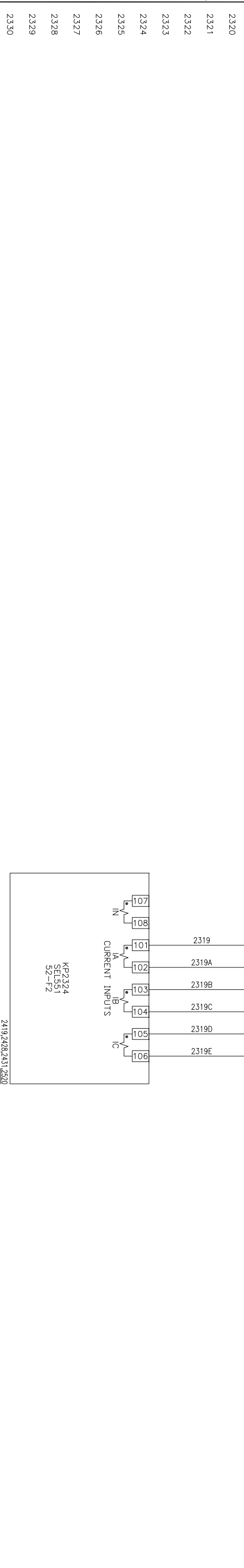
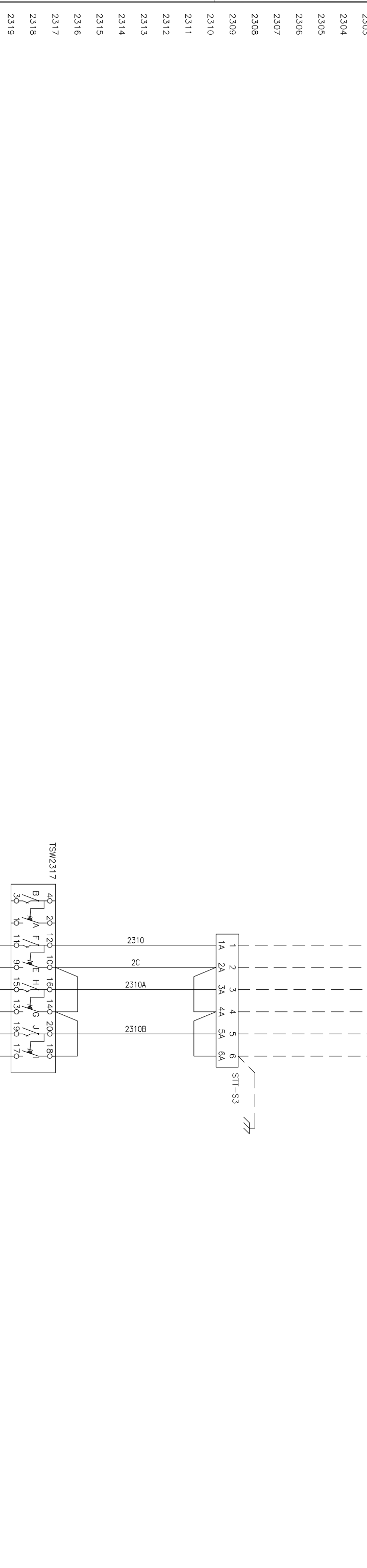
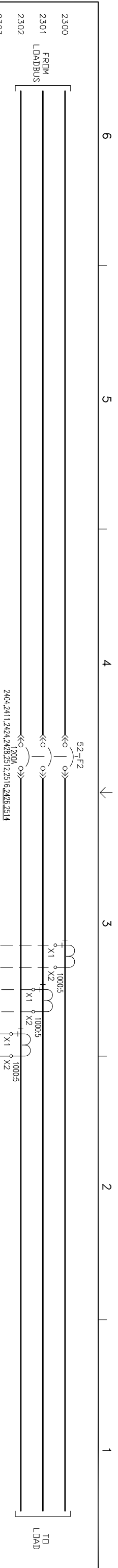
PC NO.	TRF NO.	REVISION	ZONE	DATA	CRKD	APRV	DATE	PC NO.	TRF NO.	REVISION	ZONE	DATA	CRKD	APRV	DATE	PROJECT:	SCALE:	DATE:	SHEET:
2100																ARECIBO OBSERVATORY SWITCHGEAR	AS-BUILT	06/17/10	21 of 61
2101																SG 52-F1 AC SCHEMATIC			
2102																DISTRIBUTOR:			
2103																CUMMINS CARIBBEAN			
2104																7071681			
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PROJECT:	ARECIBO OBSERVATORY SWITCHGEAR
DISTRIBUTOR:	CUMMINS CARIBBEAN
SCALE:	AS-BUILT
DATE:	06/17/10
SHEET:	21 of 61
TITLE:	CUMMINS POWER GENERATION
WD - SCHEMATIC	
SCALE:	AS-BUILT
DATE:	06/17/10
SHEET:	21 of 61



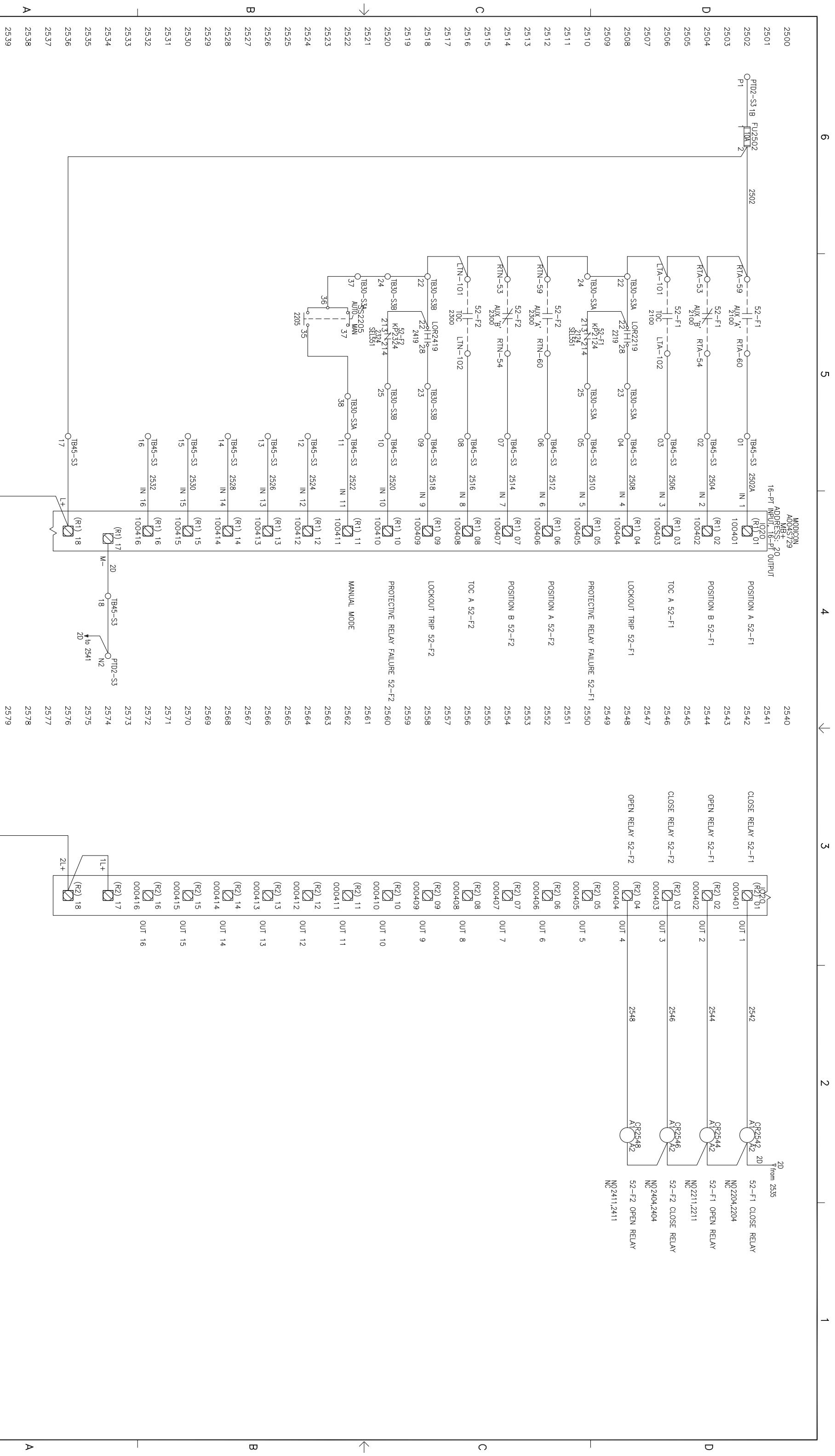
PROJECT: ARECIBO OBSERVATORY SWITCHGEAR SG 52-F1 DC SCHEMATICS DISTRIBUTOR: CUMMINS CARIBBEAN 7071681				PROJECT: ARECIBO OBSERVATORY SWITCHGEAR SG 52-F1 DC SCHEMATICS DISTRIBUTOR: CUMMINS CARIBBEAN 7071681				PROJECT: ARECIBO OBSERVATORY SWITCHGEAR SG 52-F1 DC SCHEMATICS DISTRIBUTOR: CUMMINS CARIBBEAN 7071681				PROJECT: ARECIBO OBSERVATORY SWITCHGEAR SG 52-F1 DC SCHEMATICS DISTRIBUTOR: CUMMINS CARIBBEAN 7071681			
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AUTOCAD DWG				AUTOCAD DWG				AUTOCAD DWG				AUTOCAD DWG			
PART NO. NAME DATE DESCRIPTION OF MATERIAL				PART NO. NAME DATE DESCRIPTION OF MATERIAL				PART NO. NAME DATE DESCRIPTION OF MATERIAL				PART NO. NAME DATE DESCRIPTION OF MATERIAL			
DIR V.SAKLANI 06/17/10				DIR V.SAKLANI 06/17/10				DIR V.SAKLANI 06/17/10				DIR V.SAKLANI 06/17/10			
MFG V. SIVAN 06/17/10				MFG V. SIVAN 06/17/10				MFG V. SIVAN 06/17/10				MFG V. SIVAN 06/17/10			
APPROVED K. TAJUMASI				APPROVED K. TAJUMASI				APPROVED K. TAJUMASI				APPROVED K. TAJUMASI			
PCL2004R-772F				PCL2004R-772F				PCL2004R-772F				PCL2004R-772F			
SITE CODE PGA				SITE CODE PGA				SITE CODE PGA				SITE CODE PGA			
TITLE WD-SCHEMATISC				TITLE WD-SCHEMATISC				TITLE WD-SCHEMATISC				TITLE WD-SCHEMATISC			
Dwg No. A030S865				Dwg No. A030S865				Dwg No. A030S865				Dwg No. A030S865			
SHEET 22 of 61				SHEET 22 of 61				SHEET 22 of 61				SHEET 22 of 61			

PC NO.	LTN NO.	REVISION	ZONE	BRK	CARD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	BRK	CARD	APPRV	DATE
								PC104235	01	A PRODUCTION RELEASE AS-BUILT					06/17/10



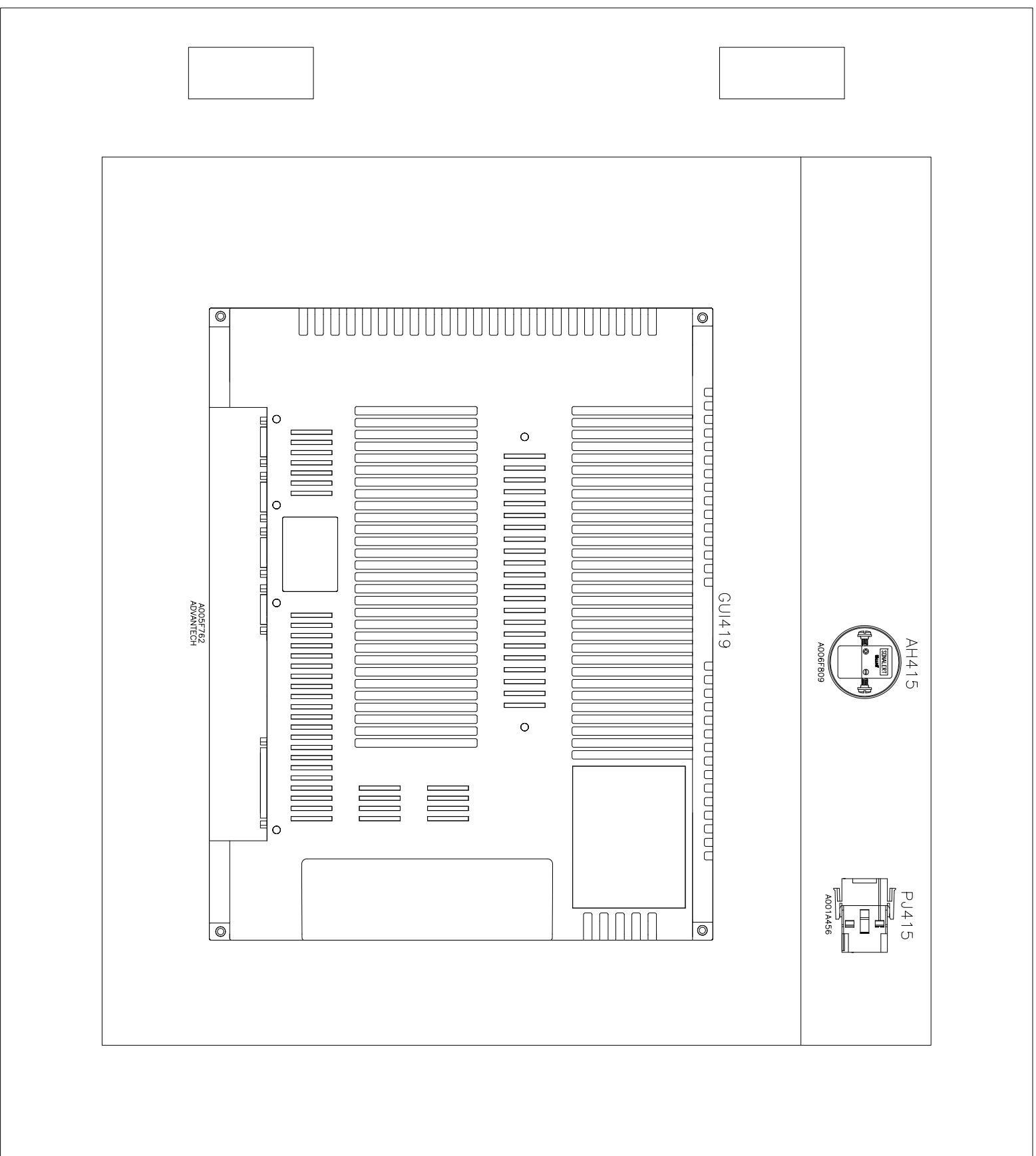
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																VS	VS
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT						ARECIBO OBSERVATORY SWITCHGEAR
																	SG 52-F2 AC SCHEMATIC
																	DISTRIBUTOR:
																	CUMMINS CARIBBEAN
																	7071681

DO NOT SCALE PRINT		SCALE 1"		SCALE 1"		SCALE 1"	
AUTOCAD DWG		AUTOCAD DWG		AUTOCAD DWG		AUTOCAD DWG	
PART NO.		NAME		DATE		DATE	
PCL2004R-772F		V.SAKLANI		06/17/10		06/17/10	
GPA		V. SIVAN		06/17/10		06/17/10	
TITLE		CUMMINS POWER GENERATION		SITE CODE		GPA	
WD-SCHEMATISC		CUMMINS POWER GENERATION		GPA		GPA	
A030S865		CUMMINS POWER GENERATION		GPA		GPA	
23 of 61		23 of 61		23 of 61		23 of 61	



PC NO.	LTN NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE
								PC104235	01	A PRODUCTION RELEASE AS-BUILT					

PC NO.	LTN NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE	PROJECT:	DISTRIBUTOR:	SCALE:	DATE:	SHEET:	TITLE:
								ARCBO OBSERVATORY SWITCHGEAR SG 52-F1 & F2 IO SCHEMATICS	CUMMINS CARIBBEAN 7071681	AUTOCAD DWG	06/17/10	25 of 61	WD-SCHEMATISC



REAR DOOR VIEW

PC NO.	LTR NO.	REVISION	ZONE	BRK	CHK	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 DMC DOOR PANEL LAYOUT
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT
 AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL
DIR	06/17/10	
CHK	06/17/10	
APP	06/17/10	

CUMMINS POWER GENERATION
 WJ-SHEMATISC
 A030S865 26 of 61

TAGS	QTY	SUB	CATALOG	CPIC LEGACY	MFG	DESCRIPTION
AM415	1		A006F809	0333-0133	WALLORY	SOUND UNIT - 2800 CPS SOUND FREQUENCY 6-28 VDC 3-14 mA SC628
PJ419	1	*1	A001A456	0323-1333	AMP	CONNECTOR HOUSING - 4 SOCKET, FEMALE 4 HOUSING
		*1	A005K700	0323-1292	AMP	MATING PLUG: 0323-1292 1-480703-0 CONNECTOR HOUSING - 4 SOCKET, MALE HOUSING
		*2	A005H219	0323-1199	AMP	MATING PLUG: 0323-1333 1-480702-0 CONNECTOR CONTACT - PIN, 20 - 14 AWG CONTACT
		*2	A006J256	0323-1200	AMP	MATING SOCKET: 0323-1200 380700-1 CONNECTOR CONTACT - SOCKET, 20 - 14 AWG CONTACT
GU419	1		A005F762	0300-6361	ADVANTECH	MATING PIN: 0323-1199 309511 SERIAL PORT TTL/HSCSEREN INTERFACE 24VDC CE, 2 SERIAL PORTS 15" LOD DISPLAY WEB01-1570-CE

PC NO.	LTR NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
 ARECIBO OBSERVATORY SWITCHGEAR
 DMC DOOR PANEL LAYOUT BOM
 DISTRIBUTOR:
 CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT	SW ID	DATE
AUTOCAD DWG	06/17/10	06/17/10

DATE	06/17/10
DATE	06/17/10
DATE	06/17/10

	CUMMINS POWER GENERATION <small>MANUFACTURING AND SERVICE</small>
WD-SCHEMATISC	WD-SCHEMATISC
A030S865	27 of 61

6 5 4 3 2 1

TAGS	QTY	SUB	CATALOG	CFG LEGACY	MFG	DESCRIPTION
CR465	1	+1	A005P969	0307-1821	F&B	RELAY-CONTROL, 24VDC CONTROL RELAY 4 C FORM, 1A, 30VDC / 120 VAC GOLD OVERLAY SILVER CONTACTS KHAU-17016-24
		+1	A006L313	0323-1410-02	IDEC	SOCKET-RELAY SOCKET 14X5.05 & SV45-51F1
		+1	A006L639	0307-1673	F&B	RELAY HOLD DOWN SPRING ACCESSORY USE WITH 307-1821 RELAY AND BASE 20C217
CR821 CR824 CR824 CR824 CR824 CR824 D802	8		A001N067	0307-2900-05	TELEMECHANIQUE	CONTRACTOR-LOW PWR COIL, 24VDC CONTRACTOR 24 VDC 4 NO.1 NC, 18A/32A LC1D18BL
	2		A005P066	0357-0150	MICROELECTRONIC	RECTIFIER- 30A, ULTRA FAST DIODE, POWER 50A, 200V 2 X 50A, 0.72V S1H1000Z1V1
FU743 FU746 FU748 FU751 FU753 FU756 FU759 FU761 FU762	7	+1	GENERIC	0321-0383-03	BUSSWANN	FUSE - CLASS CC QUANTUM DELTA, CURRENT LIMITING 8/10AMPS 600VAC LP-CC-8/10 USE WITH FUSE BLOCK 0321-0344
		+1	A002L124	0321-0344	GOULD	1 POLE FUSE BLOCK - CLASS CC FUSE HOLDER 1/10-30AMPS 600VAC PRESSURE PLATE TERM USE WITH FUSES LP-CC*
	1		A004S807	0326-0160-03	MODICON	QUANTUM CPU PROCESSOR 2M, 486 DX2, 2 MDRBUS, 1 MB+, 64K USER LOGIC CO-PROCESSOR INTEGRATED
	1	+1	A004S819	0326-0185	MODICON	DISCRETE DC INPUT QUANTUM DISCRETE INPUT 24 VDC DISCRETE, 32 POINT, 4 GROUPS, SOURCE
		+1	A006Z406	0332-3523	MODICON	QUANTUM TERMINAL STRIP 40 TERMINALS 20 AWG MINIMUM WIRE SIZE
	1		A004S937	0326-0161-02	MODICON	POWER SUPPLY QUANTUM POWER SUPPLY 24 VDC, 8A SUMMER 400
	1	+1	A004S972	0326-0166	MODICON	DISCRETE RELAY OUTPUT QUANTUM DISCRETE OUTPUT 2A DISCRETE RELAY 16 POINT OUTPUT, NO
		+1	A006Z406	0332-3523	MODICON	QUANTUM TERMINAL STRIP 40 TERMINALS 20 AWG MINIMUM WIRE SIZE
	1		A005K541	0300-5769	MODICON	ETHERNET 10/100BASE-T QUANTUM 10/100BASE-T AND MODBUS COMMUNICATION 10/100BASE-T ETHERNET (RJ-45) & 10BASE-FX ETHERNET (MT-RJ) FACTORY CAST, TWISTED PAIR & FIBER LINK, 1 CHANNEL 140NOE27111
	1		A005M822	0326-0172-04	MODICON	BACKPLANE BACKPLANE BACKPLANE, 6 SLOT, 265 MM, 10.4 IN 140XBPO0600
	5		A006Z109	0332-3125-04	WEIDMULLER	TERMINAL BLOCK DOUBLE LEVEL DOUBLE LEVEL, FEED THROUGH, WITH INTERNAL LINK 22-12 AWG 3536,6
	176		A006Z117	0332-3125-01	WEIDMULLER	TERMINAL BLOCK SINGLE LEVEL SINGLE LEVEL, FEED THROUGH 22-12 AWG 3804,6

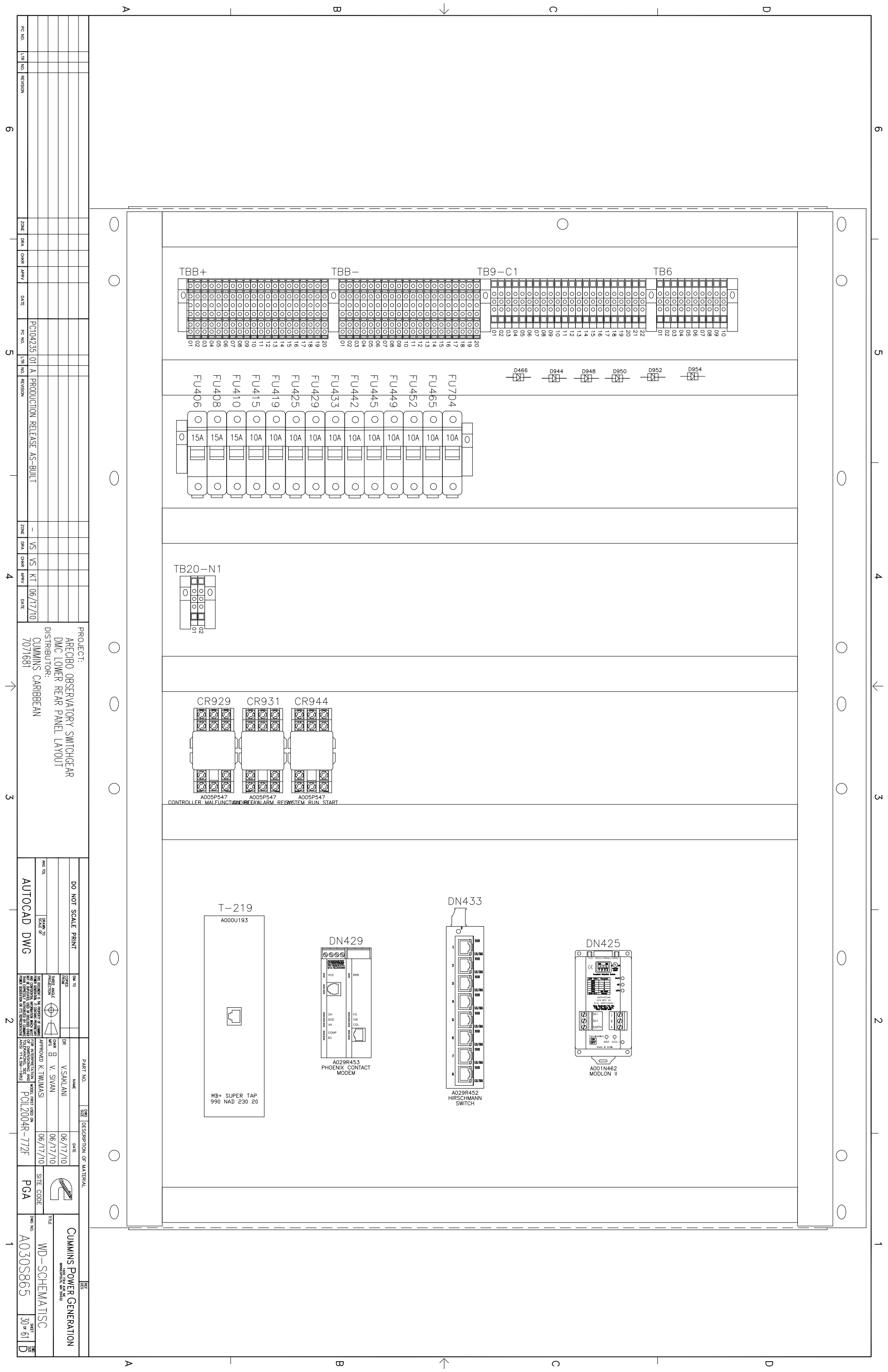
PC NO.	LTN NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT					

PROJECT:
ARCBO OBSERVATORY SWITCHGEAR
DMC UPR REAR PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

DO NOT SCALE PRINT	
SCALE TO	SCALE OF
AUTOCAD DWG	

REV	DATE	DESCRIPTION OF MATERIAL	BY	CHKD
06/17/10			V.SAKLANI	DIR
06/17/10			V. SIVAN	CHK
06/17/10			K. THUMMASI	APPROVED

PART NO.	DESCRIPTION OF MATERIAL <td>SITE CODE <td>TITLE <td>DWG NO. <td>SHEET <td>DATE </td></td></td></td></td>	SITE CODE <td>TITLE <td>DWG NO. <td>SHEET <td>DATE </td></td></td></td>	TITLE <td>DWG NO. <td>SHEET <td>DATE </td></td></td>	DWG NO. <td>SHEET <td>DATE </td></td>	SHEET <td>DATE </td>	DATE
		PGA	CUMMINS POWER GENERATION WINDUP 2500 AMP, 15KVA	A030S865	29 of 61	



PC NO.	LTN NO.	REVISION	ZONE	SHA	CARE	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	SHA	CARE	APPRV	DATE	
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 DMC LOWER REAR PANEL LAYOUT
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT	SCALE TO	SCALE OF
AUTOCAD DWG		

PART NO.	NAME	DATE	DESCRIPTION OF MATERIAL
	V.SAKLANI	06/17/10	
	V. SIVAN	06/17/10	
	K. THUMMASI	06/17/10	
POL2004R-772F	PGA		
WD-SHEMATISC			
A030S865			
30 of 61			

CUMMINS POWER GENERATION
 TITLE: WD-SHEMATISC
 SHEET: 30 of 61

TASK	QTY	SUB	CATALOG	CFG LEGACY	MFG	DESCRIPTION
T-219	1		A000U193	0324-0027-01	MODICON	MODBUS PLUS SUPER TAP CABLE TAP PORT K4S PORT 960 NAD 230
CR929 CR931 CR944	3	*1	A00SP647	0307-2721	DELTRON	RELAY-CONTROL 24VDC CONTROL RELAY 24 VDC 3 C FORM 23153-71 3 C FORM SOCKET 11 PIN SR3B-05 & SR3B-02F1
		*1	A006L318	0323-1410-01	IDEC	
	8		GENERIC	0357-0114	PANDUIT	RECTIFIER - 3A DIODE POWER 3A, 400V CONTROLLED
D466 D944 D944 D944 D952 D954	6		A00SF063	0357-0114	VENDOR SOURCE CONTROLLED	
DN433	1		A029R452	A029R452	HIRSCHMANN	ETHERNET SWITCH SPIDER II 8TX SWITCH 24VDC 10/100/1000 MBITS DIN RAIL MOUNT 943 957-001
DN429	1		A029R453	A029R453	PHOENIX CONTACT	NETWORK MODEM (PSI-MODEM/ETH) MODEM 24VDC DIN RAIL MOUNT DIN RAIL MOUNT 943 957-001
DN425	1		A001N462	0300-5926	RENU	MODICON GATEWAY - MODICON II GATEWAY 9-32VDC GW-100
FU406 FU406 FU410	3	*1	A002K943	0321-0363-30	BUSSMANN	FUSE - CLASS CC 15A 500V 15A 500V 600VAC LP-CC-15 USE WITH FUSE BLOCK 0321-0344
		*1	A002L124	0321-0344	GOULD	FUSE HOLDER 1 1/2-30AMPS 600VAC PRESSURE PLATE TERM USC01
FU415 FU425 FU429 FU433 FU442 FU445 FU445 FU445 FU465 FU704	11	*1	A002K944	0321-0363-28	BUSSMANN	FUSE - CLASS CC 10AMP 10AMP 600VAC LP-CC-10 USE WITH FUSE BLOCK 0321-0344
		*1	A002L124	0321-0344	GOULD	FUSE HOLDER 1 1/2-30AMPS 600VAC PRESSURE PLATE TERM USC01
TBR- TBR- TBR-C1	40		A0062109	0332-3125-04	WEIDMULLER	TERMINAL BLOCK 100V 27A DOUBLE LEVEL, FEED THROUGH WITH INTERNAL LINK 22-12 AWG 3638B
TB20-N1 TB9 TB9-C1	34		A0062117	0332-3125-01	WEIDMULLER	TERMINAL BLOCK 100V 27A DOUBLE LEVEL, FEED THROUGH WITH INTERNAL LINK 22-12 AWG 3638B
CB1215 CB1221 CB1228	3		A000Y479	0335-0198-02	BORGHER STATES	CABLE ASSY(ETHERNET) ETHERNET PATCH CABLE 10FT, RJ45 24AWG, 4 TWISTED PAIR COMMUNICATION
CB1229	1		A000Y495	0335-0250-02	CUMMINS	CABLE ASSY(MODICON) COMMUNICATION MODBUS FOR QUANTUM 10 MODICON II
CB1214	1		A000Y609	0326-0173	MODICON	COMMUNICATION MODBUS PLUS 8 FT LONG, 9 PIN 'D' SHELL 990 NAD 211 10
CB1203 CB1203A	2		A000Y908	0326-0149-04	MODICON	CABLE-MODBUS+ TRUNK COMMUNICATION MODBUS PLUS SPEICIF FEET NEEDED, TP-PVC VACCETED REEL
CB1235	1		A000Y956	0334-1350	VENDOR SOURCE CONTROLLED	CABLE - CAT IV COMMUNICATION 22AWG PVC JACKET

PC NO.	LTN NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT					

PROJECT:
ARCIBO OBSERVATORY SWITCHGEAR
DMC LOWER REAR PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

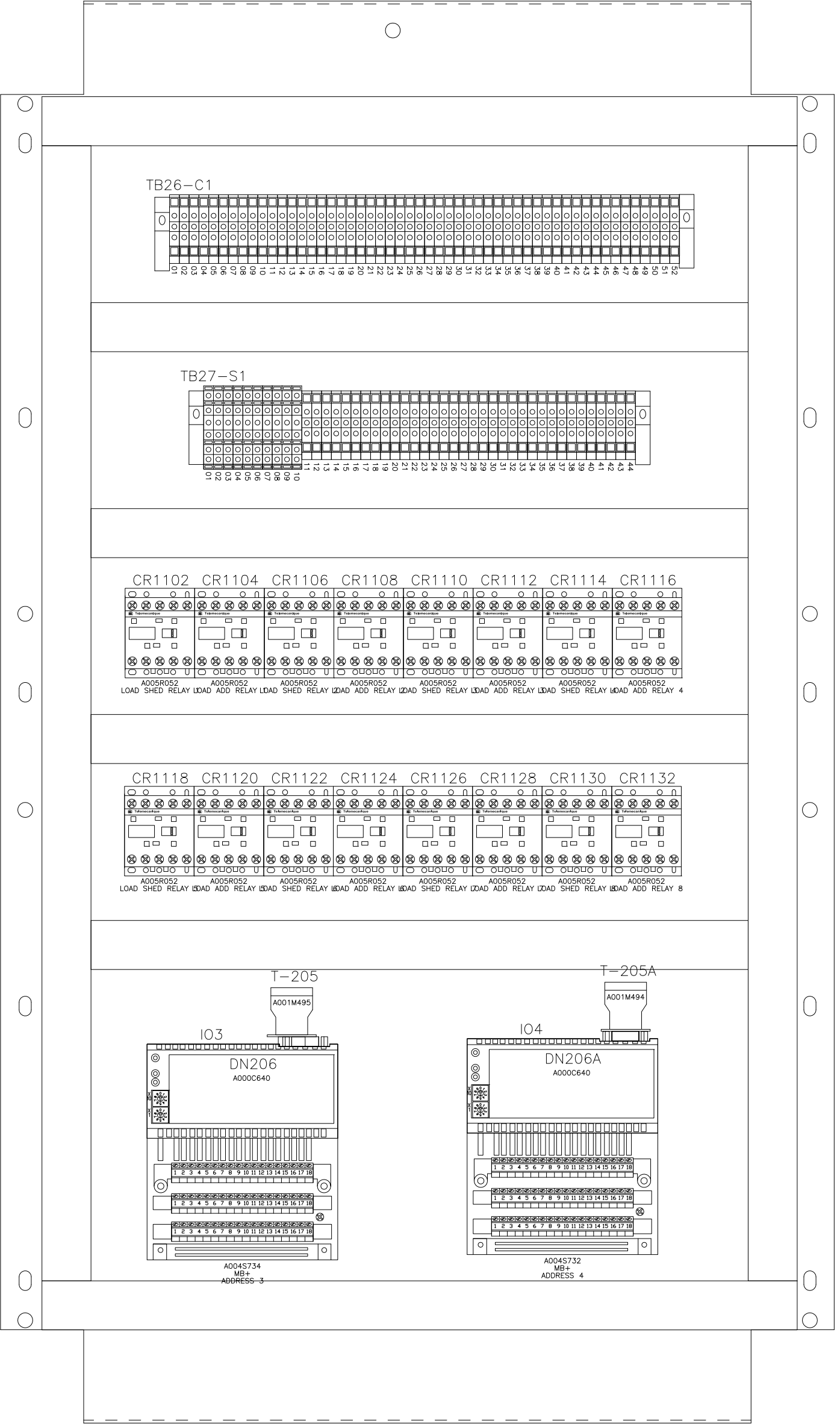
DO NOT SCALE PRINT
AUTOCAD DWG

REV	DATE	DESCRIPTION
01	06/17/10	ISSUE FOR PRODUCTION
02	06/17/10	REVISED FOR APPROVAL

REV	DATE	DESCRIPTION
01	06/17/10	ISSUE FOR PRODUCTION
02	06/17/10	REVISED FOR APPROVAL

CUMMINS POWER GENERATION
WD-SHEMATISC
A030S865
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2
1

PC NO.	LTN NO.	REVISION	ZONE	BNA	CKWT	APRY	DATE	PC NO.	LTN NO.	REVISION	ZONE	BNA	CKWT	APRY	DATE	PROJECT:	ARECBO OBSERVATORY SWITCHGEAR DMC UPR LH PANEL LAYOUT DISTRIBUTOR: CUMMINS CARIBBEAN 7071681
								PC104235	01	A	PRODUCTION	RELEASE	AS-BUILT				
DO NOT SCALE PRINT	CHECKED	DATE	PROJECT: ARECBO OBSERVATORY SWITCHGEAR DMC UPR LH PANEL LAYOUT DISTRIBUTOR: CUMMINS CARIBBEAN 7071681 DWG NO. A030S865 SHEET 32 OF 61 DATE 06/17/10														
AUTOCAD DWG	SCALE TO	DATE	PART NO. NAME DESCRIPTION OF MATERIAL 06/17/10 V.SAKLIANI 06/17/10 V. SIVAN APPROVED: K.T. JUMWASI THIS DOCUMENT IS THE PROPERTY OF CUMMINS CARIBBEAN AND IS TO BE USED ONLY FOR THE PROJECT AND NOT BE REPRODUCED OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF CUMMINS CARIBBEAN. THIS DOCUMENT IS THE PROPERTY OF CUMMINS CARIBBEAN AND IS TO BE USED ONLY FOR THE PROJECT AND NOT BE REPRODUCED OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF CUMMINS CARIBBEAN.														
A030S865		WD-SHEMATISC	CUMMINS POWER GENERATION MANUFACTURING AND SERVICE TITLE: WD-SHEMATISC DWG NO. A030S865 SHEET 32 OF 61 DATE 06/17/10														

A B C D

A B C D

TAGS	QTY	SUB	CATALOG	ORG LEGACY	MFG	DESCRIPTION
T-2034 T-2035	1		A001M494 A001M495	0323-1735-01 0323-1735-02	MODICON	CONNECTOR - MODBUS INLINE KIT ONE PER KIT AS-MBX1-085 CONNECTOR - MODBUS TERMINATING KIT CONNECTOR
T-2095	1		A003R052	0307-2861-06	TELEMECANIQUE	RELAY CONTROL KIT CONTROL RELAY 24 VDC 2 NO, 2 NC 18 - 12 AWG C4-ANZ8W13
GR1102 GR1104 GR1106 GR1108 GR1110 GR1112 GR1114 GR1116 GR1118 GR1120 GR1122 GR1124 GR1126 GR1128 CR1130 CR1132	16		A005R052	0307-2861-06	TELEMECANIQUE	RELAY CONTROL KIT CONTROL RELAY 24 VDC 2 NO, 2 NC 18 - 12 AWG C4-ANZ8W13
DN208 DN209A	2		A000C640	0326-0205	PAADUIT	ADAPTER-COMMUNICATION COMMUNICATION COMMUNICATION ADAPTER MB+ SINGLE PORT, 984 DATA FORMAT 170NE11021
IO4	1	*1	A004S732	0326-0201-02	MODICON	DISCRETE INPUT MODULE DISCRETE INPUT 32 POINT INPUT 24VDC 170AD35000
		*1	A005L063	0332-3524	MODICON	TERMINAL STRIP TERMINAL TERMINAL PLUG, 18 PLACE 170XTS00100
IO3	1	*1	A004S734	0326-0202-01	MODICON	DISCRETE OUTPUT MODULE DISCRETE OUTPUT 24VDC 16 POINT OUTPUT 170AD034000
		*1	A005L063	0332-3524	MODICON	TERMINAL STRIP TERMINAL TERMINAL PLUG, 18 PLACE 170XTS00100
TB27-S1	10		A006Z109	0332-3125-04	WEIDMULLER	TERMINAL BLOCK DOUBLE LEVEL 300V, 27A 30/0.4 27A/0.4 22-12 AWG 3636.6
TB26-C1 TB27-S1	86		A006Z117	0332-3125-01	WEIDMULLER	TERMINAL BLOCK SINGLE LEVEL 300V, 27A 30/0.4 27A/0.4 22-12 AWG 3636.6

PC NO.	LTR NO	REVISION	ZONE	BKA	CHKD	APPR	DATE	PC NO.	LTR NO	REVISION	ZONE	BKA	CHKD	APPR	DATE
								PC104235	01	A					

PROJECT:
ARCIBO OBSERVATORY SWITCHGEAR
DMC UPR LH PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

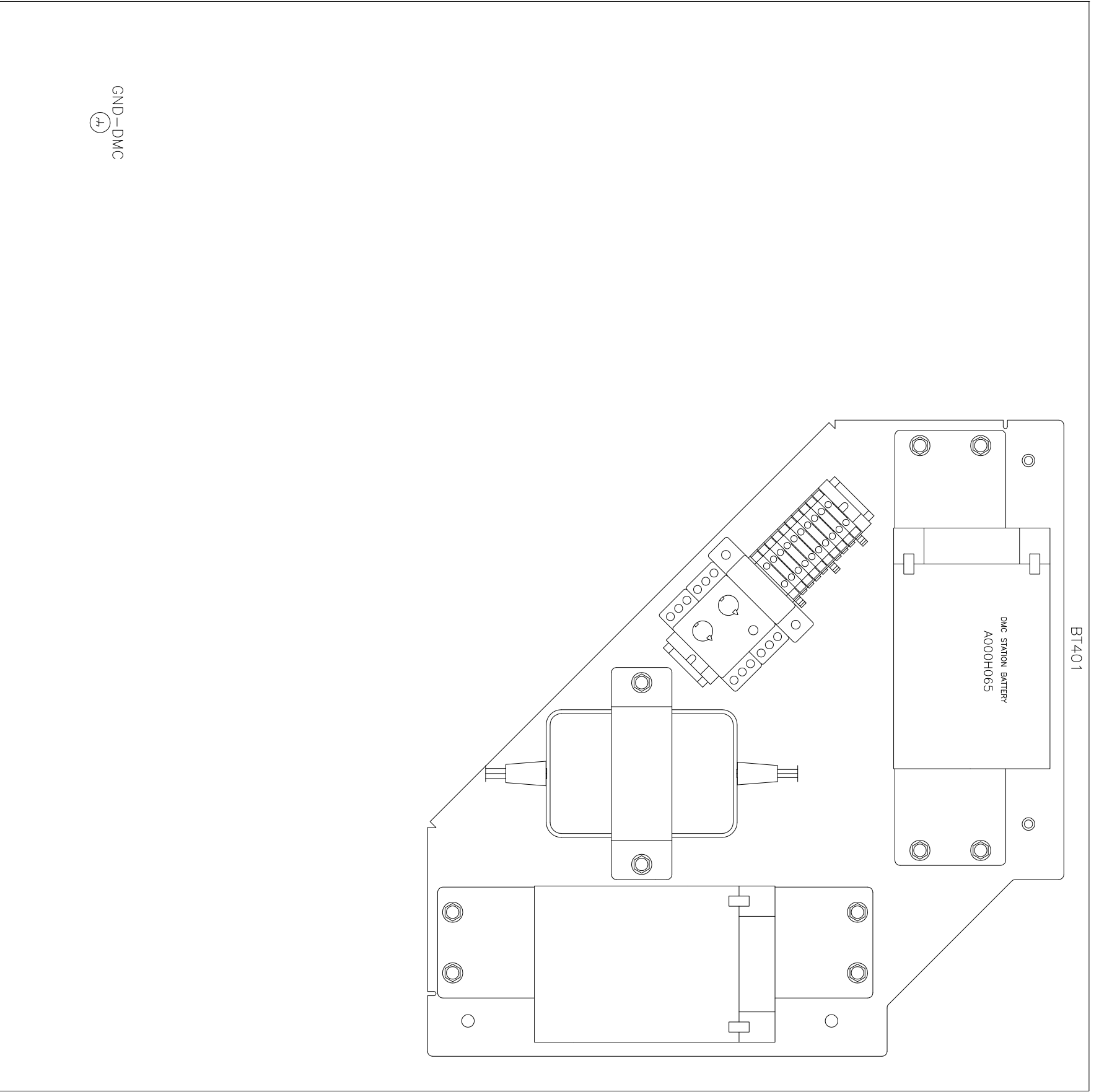
DO NOT SCALE PRINT
AUTOCAD DWG

SW ID	C89D
PROJ	ARCIBO
DATE	06/17/10
SCALE	AS SHOWN

DR	V.SAKLANI
CHKD	V. SIVAN
MFG	K. TUMWASI
APPROVED	K. TUMWASI

DATE	06/17/10
SITE CODE	PGA

TITLE	CUMMINS POWER GENERATION
NO.	WD-SCHEMATISC
REV	33 of 61



GND-DMC
④

PC NO.	LTN NO.	REVISION	ZONE	BRN	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
ARECIBO OBSERVATORY SWITCHGEAR
DMC FLOOR PANEL LAYOUT
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

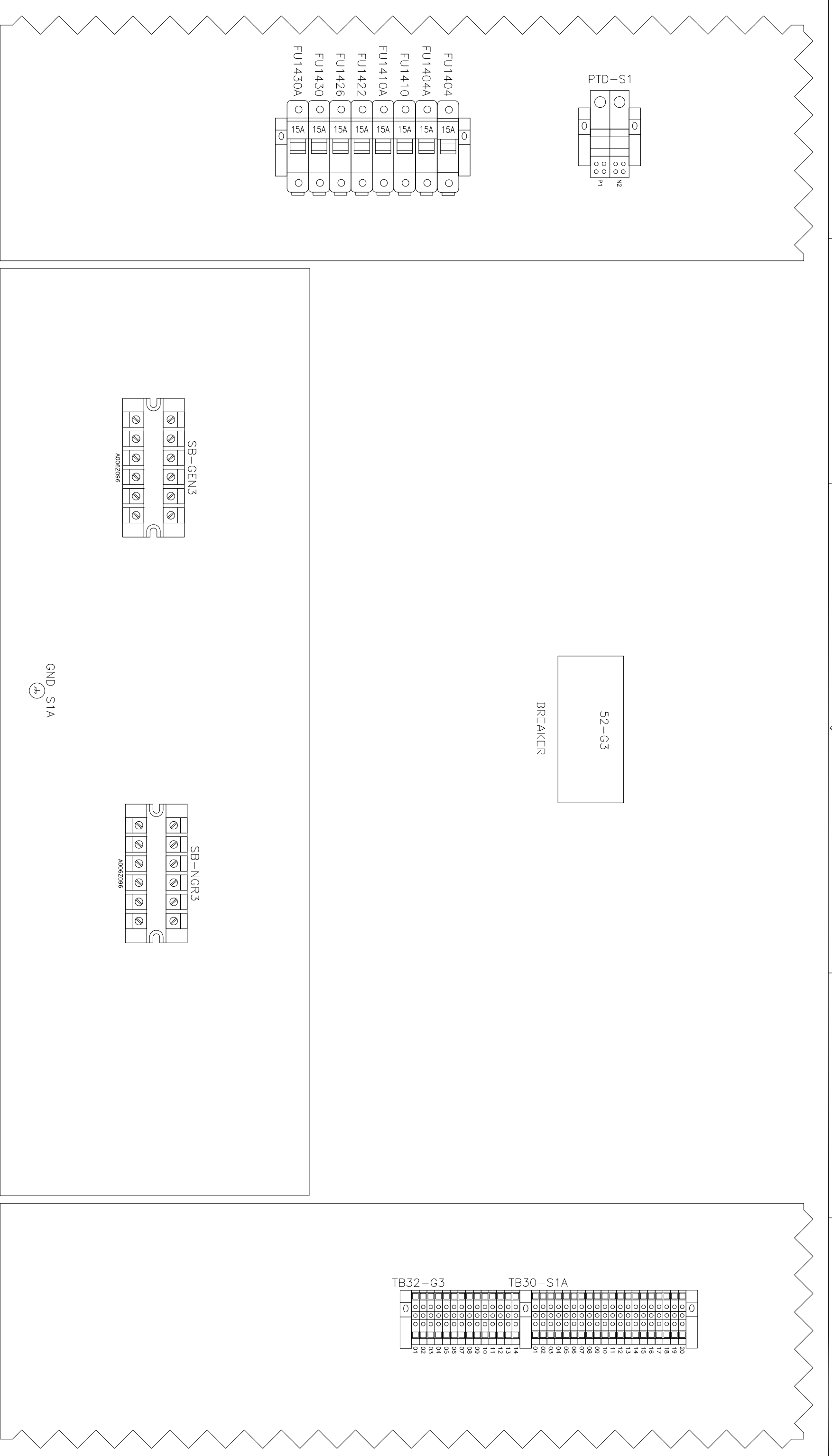
DO NOT SCALE PRINT
AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL
DIR	06/17/10	
CHKD	06/17/10	
APPRV	06/17/10	

PART NO. NAME DATE
V.SAKLANI 06/17/10
V. SIVAN 06/17/10
K. TIMMAYASI 06/17/10

PGC
PGA

CUMMINS POWER GENERATION
WD-SCHEMATISC
A030S865
34 of 61



PC NO.	LITH NO.	REVISION	ZONE	DMA	CARR	APRV	DATE	PC NO.	LITH NO.	REVISION	ZONE	DMA	CARR	APRV	DATE	
								PC NO.	LITH NO.	REVISION	ZONE	DMA	CARR	APRV	DATE	
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
 ARECIBO OBSERVATORY SWITCHGEAR
 SG S1A CELL PANEL LAYOUT
DISTRIBUTOR:
 CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT

REV	DATE	DESCRIPTION OF MATERIAL
1	06/17/10	ISSUE

GA

PART NO.	NAME
PCL2004R-772F	V.SAKLARI
DATE	DATE
06/17/10	06/17/10
SITE CODE	DR
PGA	<input checked="" type="checkbox"/> V.SIVAN
DATE	APPROVED
06/17/10	K. TAJMASI

TITLE
 CUMMINS POWER GENERATION
 WD-SCHEMATISC

NO. OF SHEETS
 6

SHEET NO.
 6

TAGS	QTY	SUB	CATALOG	CPG LEGACY	MFG	DESCRIPTION
52-G3	1		MV UPPER CELL		SQUARE D	CIRCUIT BREAKER
FU1404	8	*1	A002K943	0321-0363-30	BUSSMANN	TERMINAL BLOCK FUSE CLASS CC TIME DELAY, CURRENT LIMITING 15AMPS 600VAC LP-CC-15 USE WITH FUSE BLOCK 0321-0344
FU1410						
FU1410A						
FU1422						
FU1426						
FU1430						
FU1430A		*1	A002L124	0321-0344	GOULD	1 POLE FUSE BLOCK - CLASS CC FUSE HOLDER 1/10-30AMPS 600VAC PRESSURE PLATE TERM USCC1 USE WITH FUSES LP-CC* GROUNDING TERMINAL LUG
GND-S1A	1		FRAME GROUND		CUMMINS	TERMINAL BLOCK SPRING BLOCK 600VAC 6 TERMINAL
SB-GEN3	2		A006Z096	0332-3178-01	CUMMINS	TERMINAL BLOCK SPRING BLOCK 600VAC 6 TERMINAL
SB-NGR3	2					
PTD-S1	2		SOD PTD		SQUARE D	SUPPLIED BY SQUARE D TERMINAL DC BUS TERMINAL
STA-S1	2		SOD SHORTING BLOCK		SQUARE D	VENDOR SUPPLIED SHORTING BLOCK SQUARE D
STG-S1	2					
TB30-S1A	34		A006Z117	0332-3125-01	WEIDMULLER	TERMINAL BLOCK SINGLE LEVEL 800V, 20A SOD, ZIMMEL, FEED THROUGH 22-12 AWG 3804.6

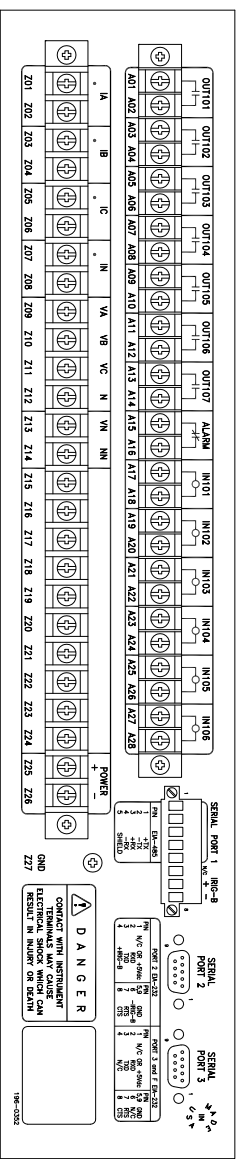
PC NO.	LTR NO.	REVISION	ZONE	BRK	CHKD	APPR	DATE
PC104235	01	A					06/17/10
PC104235 01 A PRODUCTION RELEASE AS-BUILT							

PROJECT:
 ARECIBO OBSERVATORY SWITCHGEAR
 SG S1A CELL PANEL LAYOUT BOM
 DISTRIBUTOR:
 CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT
 AUTOCAD DWG

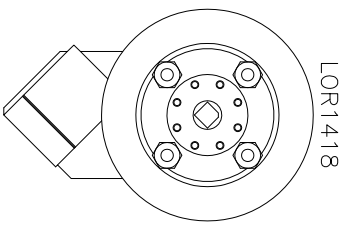
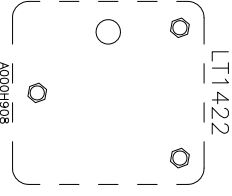
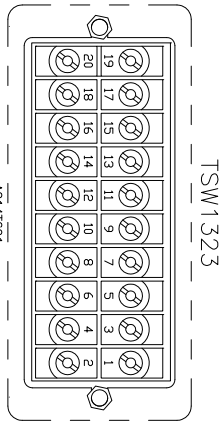
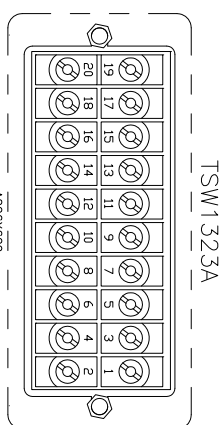
REV	DESCRIPTION OF MATERIAL	DATE	BY	CHKD	DATE
06/17/10			V.SAKLANI		06/17/10
06/17/10			V. SIVAN		06/17/10
06/17/10			K. TIMMASI		06/17/10

PART NO. **PGA**
 TITLE **CUMMINS Power GENERATION**
 WD-SHEMATISC
 SHEET **37 of 61**
 DWG NO. **A030S865**



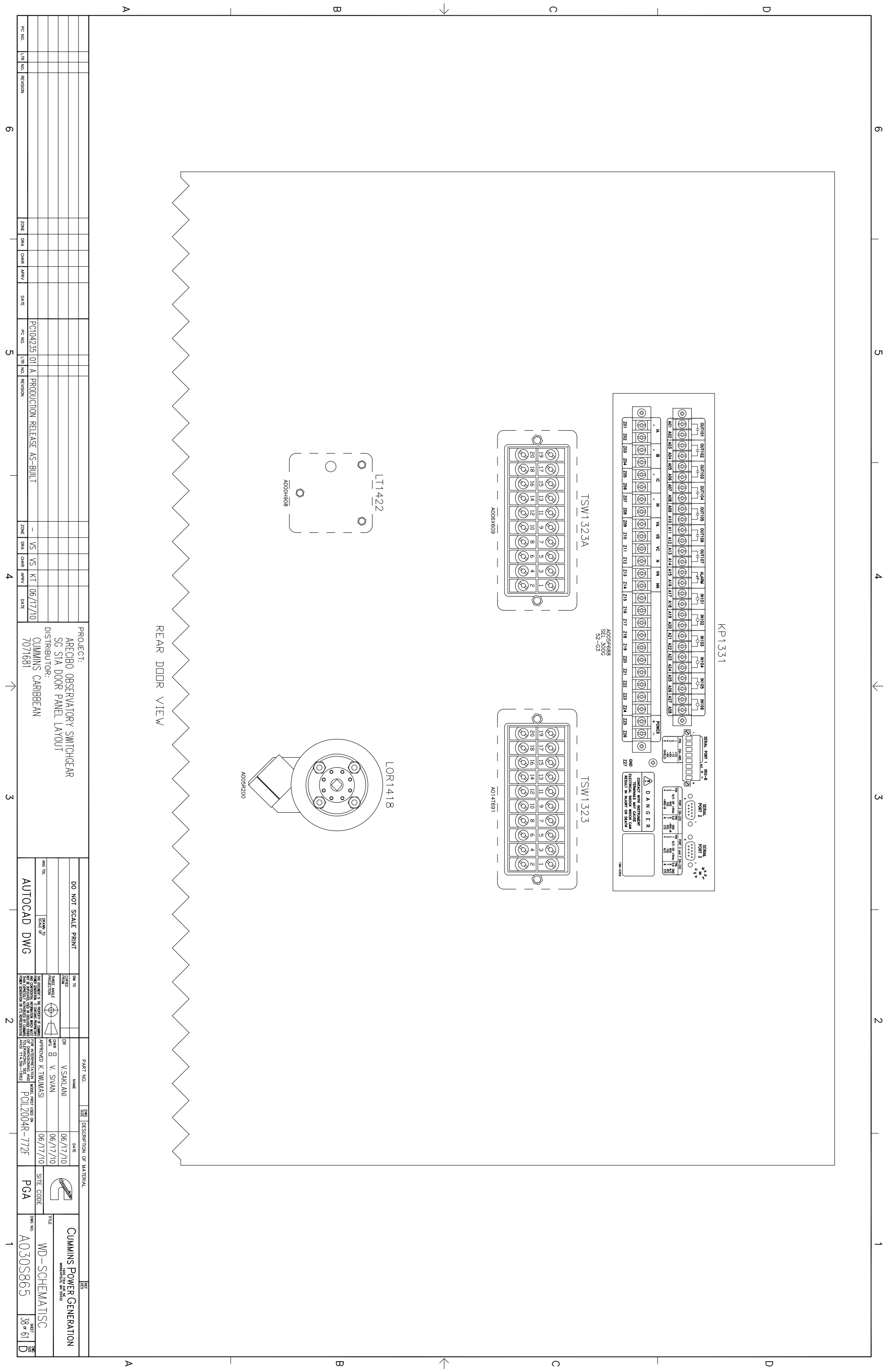
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SCL 3006
92-03



REAR DOOR VIEW

PC NO.	LT# NO.	REVISION	ZONE	DR#	CHK#	APRV	DATE	PC NO.	LT# NO.	REVISION	ZONE	DR#	CHK#	APRV	DATE	PROJECT:	ARCIBO OBSERVATORY SWITCHGEAR SG S1A DOOR PANEL LAYOUT DISTRIBUTOR: CUMMINS CARIBBEAN 7071681	DO NOT SCALE PRINT	SCALE TO	SCALE OF	DATE	DATE	SITE CODE	TITLE	SHEET
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT					06/17/10							PG A	CUMMINS POWER GENERATION WD-SHEMATISC	38 of 61



TACS	QTY	SUB	CATALOG	CFG. LEGACY	MFG	DESCRIPTION
KR1331	1		A005P988	0307-3033-08	SCHWEITZER	PROTECTIVE RELAY (SEL 300G MULTIFUNCT) 58-125 VDC PS/ 125 VDC CV W/ DIFFERENTIAL PROJECTION MOUNT 03000105325XX4X
LOR1418	1		A005R200	0307-2981-09	ELECTROSWITCH	LOCKOUT RELAY /W INDICATOR 4 DECK 120VAC RED LED INDICATOR, MAINTAINED CONTACTS 20A, 600V 79P4QD-011
LT1422	1		A000H908	0308-1117-02	ELECTROSWITCH	BEZEL - BREAKER STATUS LIGHTS BREAKER STATUS 48V LED INDICATOR RED & GRN LED INDICATED 658P82011A
TSW1323A	1		A006X609	0308-1156-01	ABB	RELAY TEST SWITCH - 6 CURRENT, 4 POTENTIAL 6 POLE 120VAC 189V TEST SWITCH 9672A10G01
TSW1323	1		A0141691	0308-1156-05	ABB	RELAY TEST SWITCH - 8 CURRENT 8 POLE 9672A10G01

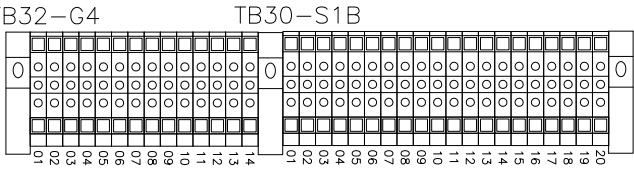
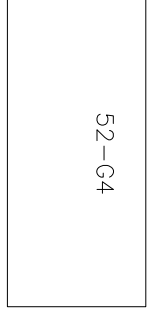
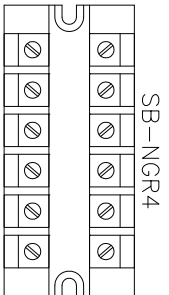
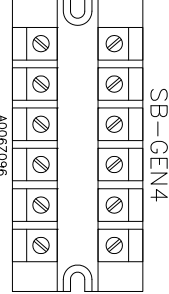
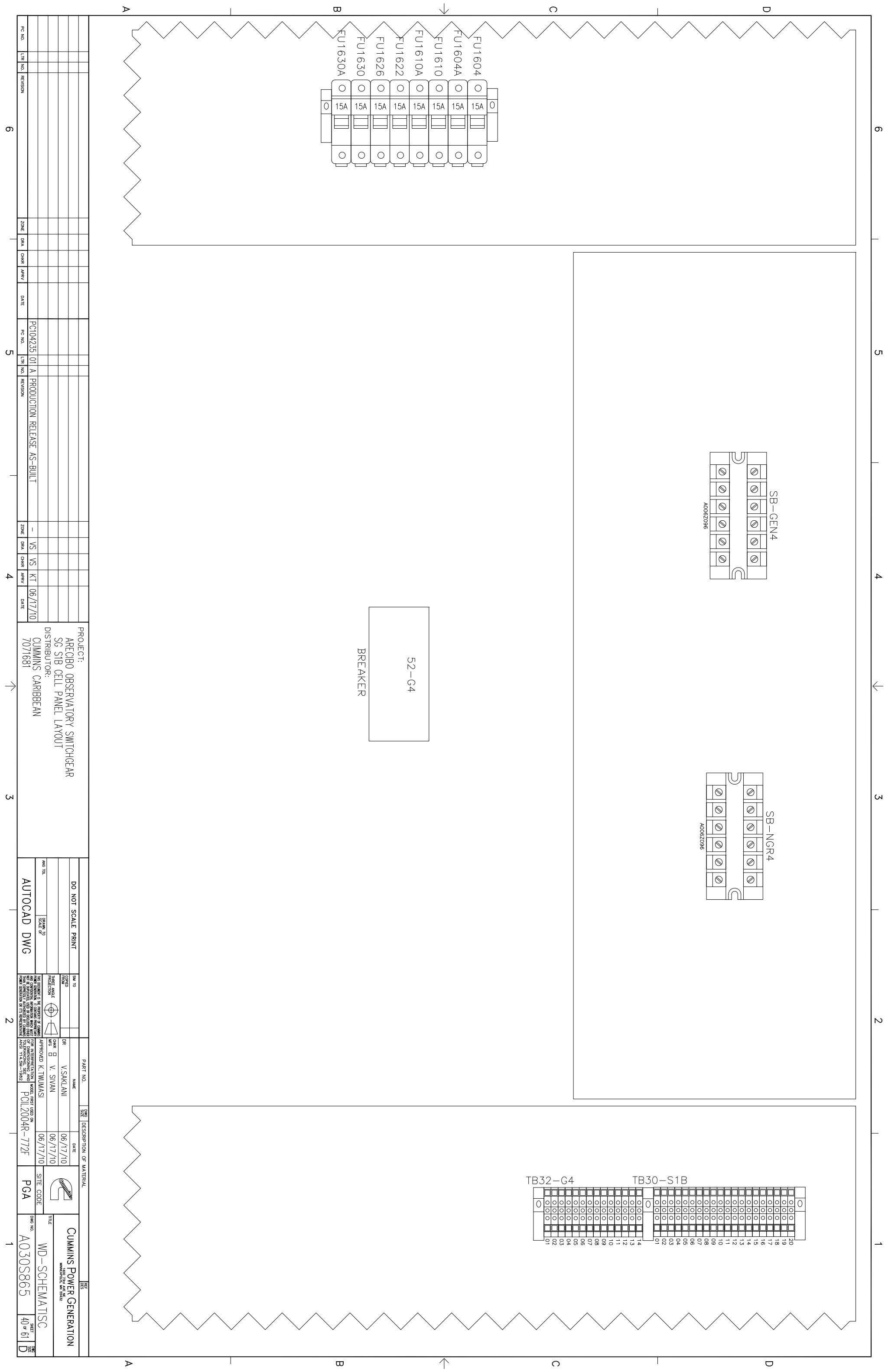
PC NO.	LTR NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
ARCIBO OBSERVATORY SWITCHGEAR
SG SIA DOOR PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

DO NOT SCALE PRINT
AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL	SITE CODE
DIR	06/17/10		
CHKD	06/17/10		
MFG	06/17/10		
APPROVED	06/17/10		

CUMMINS POWER GENERATION
WD-SHEMATISC
A030S865
39 of 61



- FU1604 ○ □ □ □ □ □
- FU1604A ○ □ □ □ □ □
- FU1610 ○ □ □ □ □ □
- FU1610A ○ □ □ □ □ □
- FU1622 ○ □ □ □ □ □
- FU1626 ○ □ □ □ □ □
- FU1630 ○ □ □ □ □ □
- FU1630A ○ □ □ □ □ □

PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE	PROJECT:	DO NOT SCALE PRINT	SCALE TO	SCALE OF	DATE	DATE	SITE CODE	TITLE	SHEET	DATE	
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10	ARCBO OBSERVATORY SWITCHGEAR SG SIB CELL PANEL LAYOUT DISTRIBUTOR: CUMMINS CARIBBEAN 7071681	AUTOCAD DWG			06/17/10	06/17/10	PGA	CUMMINS POWER GENERATION WD-SHEMATISC	40 of 61	D

TAGS	QTY	SUB	CATALOG	CFG LEGACY	MFG	DESCRIPTION
52-G4	1		HW LOWER CELL		SQUARE D	CIRCUIT BREAKER VENDOR
FU1604	8	*1	A002K943	0321-0363-30	BUSSMANN	FUSE - CLASS CC 15A 15A 15A 600VAC LP-CC-15 USE WITH FUSE BLOCK 0321-0344
FU1610A						
FU1610A						
FU1622						
FU1626						
FU1630						
FU1630A						
		1	A002L124	0321-0344	GOULD	1 POLE FUSE BLOCK - CLASS CC FUSE HOLDER 1/10-30AMPS 600VAC PRESSURE PLATE TERM USE WITH FUSES LP-CC
SB-GEN4	2		A006Z096	0332-3178-01	CUMMINS	TERMINAL BLOCK SHORTING BLOCK 600V, 30A 6 TERMINAL
SB-NGR4						
STN-S1	2		SCD SHORTING BLOCK		SQUARE D	SUPPLIED BY SQUARE D SHORTING BLOCK 6 TERMINAL BY SQUARE D
ST1-S1						
TS30-STB	34		A006Z117	0332-3125-01	WEIDMULLER	TERMINAL BLOCK SINGLE LEVEL 60V, 20A 60V, 15A 22-15 AMPS 3804.6
TS32-G4						

PC NO.	LTR NO.	REVISION	ZONE	CHK	APPV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	06/17/10

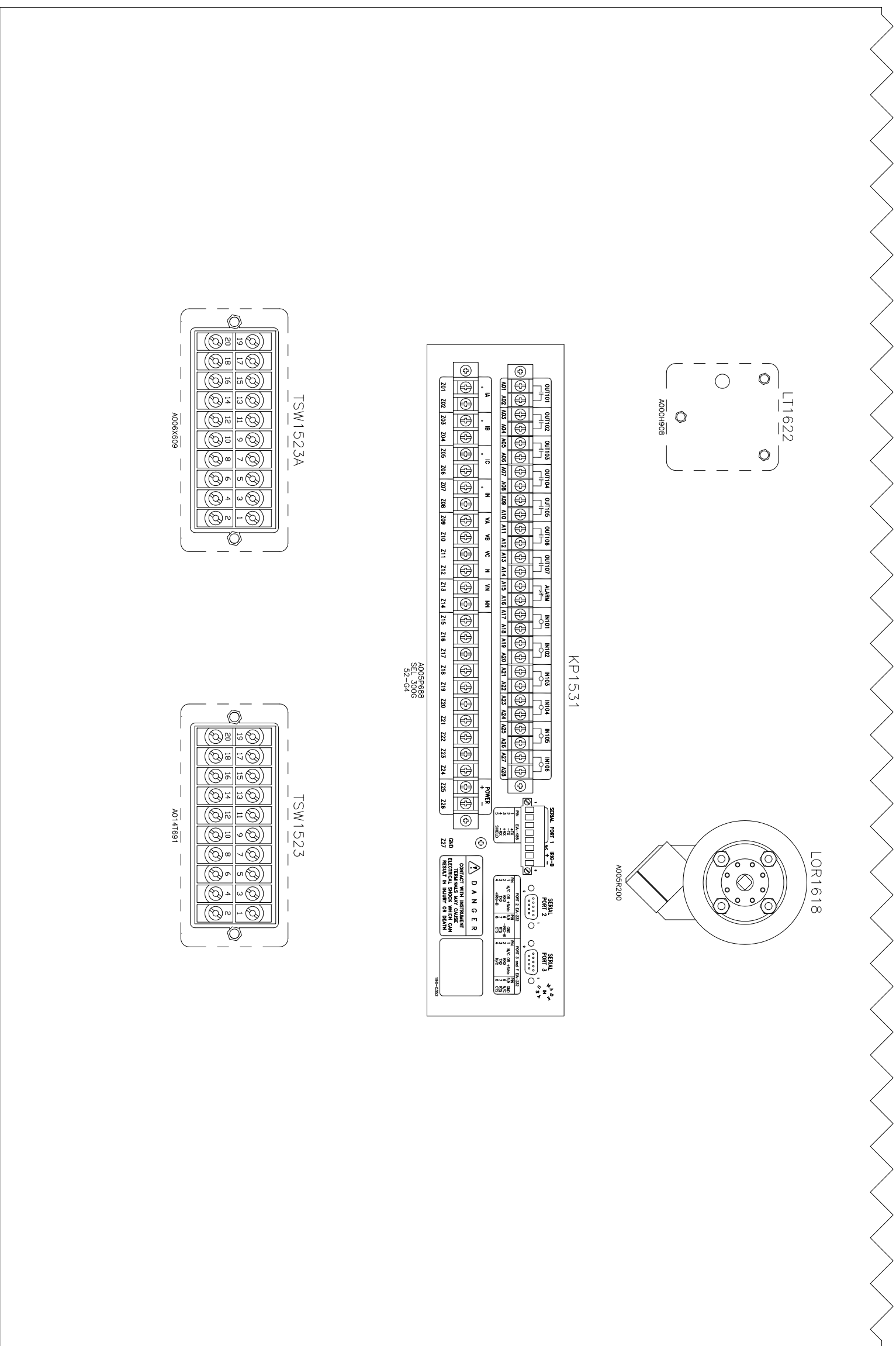
PROJECT:
 ARECIBO OBSERVATORY SWITCHGEAR
 SG SIB CELL PANEL LAYOUT BOM
 DISTRIBUTOR:
 CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT	SW ID	DATE
AUTOCAD DWG	06/17/10	06/17/10

PART NO.	NAME	DATE
DIR	V.SAKLANI	06/17/10
CHK	V. SIVAN	06/17/10
MFG		
APPROVED	K. TIMMASI	06/17/10


CUMMINS POWER GENERATION
 WIND-SCHEMATISC
 TITLE: WD-SCHEMATISC
 SHEET: 41 of 61
 Dwg No: A030S865

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REAR DOOR VIEW

PC NO.	LTR NO.	REVISION	ZONE	CHK	CHKD	APPRV	DATE
PC NO.	LTR NO.	REVISION	ZONE	CHK	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 SG SIB DOOR PANEL LAYOUT
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT
 AUTOCAD DWG

PART NO.	NAME	DATE	DESCRIPTION OF MATERIAL
DIR	V.SAKLANI	06/17/10	
CHK	V. SIVAN	06/17/10	
APPROVED	K. TIMJWASI	06/17/10	

CUMMINS POWER GENERATION
 WD-SCHEMATISC
 A030S865 42 of 61

TAGS	QTY	SUB	CATALOG	CPG LEGACY	MFG	DESCRIPTION
KPI531	1		A005F688	0307-3033-08	SCHWEITZER	PROTECTIVE RELAY (SEL. 3000 MULTIFUNCT) SEL.-3000 48-125 VDC PS/ 125 VDC CV N/ DIFFERENTIAL M/ DIFFERENTIAL 0300010525XXXX
LOR1618	1		A005R200	0307-2981-09	ELECTROSWITCH	LOCKOUT RELAY /W INDICATOR 4 DECK 125VDC RED LED INDICATOR, MAINTAINED CONTACTS 728A000111
LT1622	1		A000H908	0308-1117-02	ELECTROSWITCH	BEZEL - BREAKER STATUS LIGHTS BREAKER STATUS 48-125 VDC RED & GRN LED INDICATED
TSW1523A	1		A006X609	0308-1156-01	ABB	6SPR201A RELAY TEST SWITCH - 6 CURRENT, 4 POTENTIAL 4 POLE 6 POLE 498A010G01
TSW1523	1		A014F691	0308-1156-05	ABB	RELAY TEST SWITCH - 8 CURRENT 8 POLE 9872A10G01

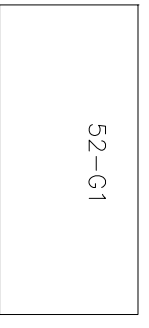
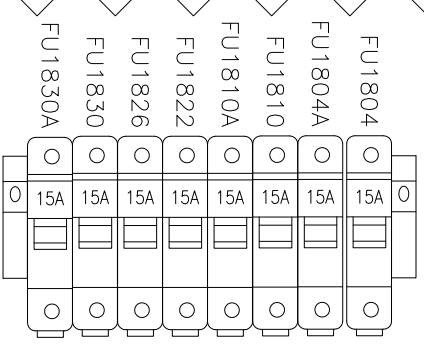
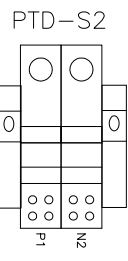
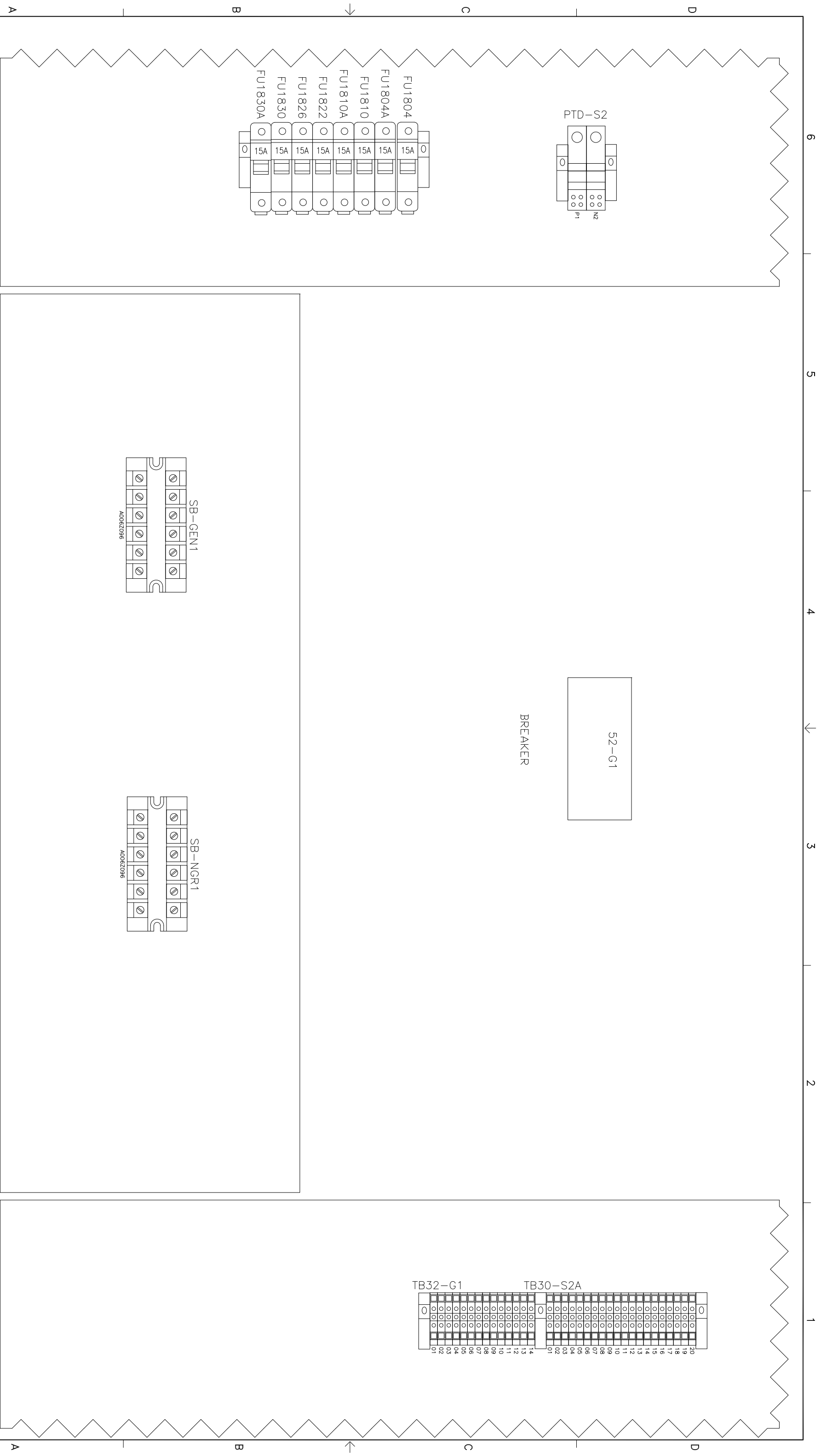
PC NO.	LTR NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
ARECIBO OBSERVATORY SWITCHGEAR
SG SIB DOOR PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

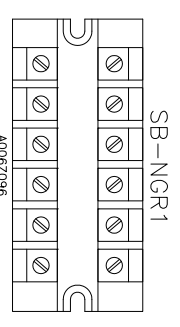
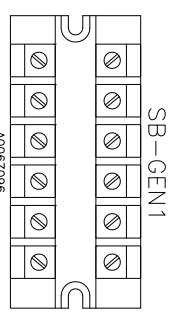
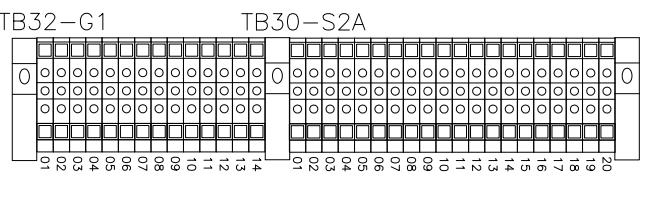
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AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL	SITE CODE
DIR	06/17/10		
CHK	06/17/10		
MFG	06/17/10		
APPROVED	06/17/10		

CUMMINS POWER GENERATION
WD-SCHEMATISC
A030S865
43 of 61



BREAKER



PC NO.	LTR NO.	REVISION	ZONE	BRK	CARR	APPR	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 SG S2A CELL PANEL LAYOUT
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT
 AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL	SITE CODE
1	06/17/10		PGA

CUMMINS POWER GENERATION
 WD-SCHEMATISC
 A030S865 44 of 61

TAGS	QTY	SUB	CATALOG	CPG LEGACY	MFG	DESCRIPTION
S2-G1	1		MV UPPER CELL		SQUARE D	CIRCUIT BREAKER
FU1804	8	*1	A002K943	0321-0363-30	BUSSMANN	1-POLAR CLASS CC TIME DELAY, CURRENT LIMITING 15AMPS 600VAC LP-CC-19 USE WITH FUSE BLOCK 0321-0344
FU1810						
FU1822						
FU1830						
FU1830A						
		1	A002L124	0321-0344	GOULD	1 POLE FUSE BLOCK - CLASS CC FUSE HOLDER 1/10-30AMPS 600VAC REAR MOUNT REAR SQUARE PLATE TERM USCC1 USE WITH FUSES LP-CC
SB-GEN1	2		A006Z096	0332-3178-01	CUMMINS	TERMINAL BLOCK SHORTING BLOCK
SB-NGR1						
PTD-S2	2		SOD PTD		SQUARE D	TERMINAL SUPPLIED BY SQUARE D
STA-S2	2		SOD SHORTING BLOCK		SQUARE D	DC BUS TERMINAL SUPPLIED BY SQUARE D
STG-S2						
TS30-S2A	34		A006Z117	0332-3125-01	WEIDMULLER	TERMINAL BLOCK SINGLE LEVEL 600V, 20A SINGLE LEVEL, FEED THROUGH 1504.6
TS32-G1						

PC NO.	LRM NO.	REVISION	ZONE	BRK	CARR	APPRV	DATE	PC NO.	LRM NO.	REVISION	ZONE	BRK	CARR	APPRV	DATE	PROJECT:	PROJECT:	PROJECT:	PROJECT:	PROJECT:
								PC104235	01	A PRODUCTION RELEASE AS-BUILT					06/17/10	ARECIBO OBSERVATORY SWITCHGEAR	ARECIBO OBSERVATORY SWITCHGEAR	ARECIBO OBSERVATORY SWITCHGEAR	ARECIBO OBSERVATORY SWITCHGEAR	ARECIBO OBSERVATORY SWITCHGEAR
																SG S2A CELL PANEL LAYOUT BOM	SG S2A CELL PANEL LAYOUT BOM	SG S2A CELL PANEL LAYOUT BOM	SG S2A CELL PANEL LAYOUT BOM	SG S2A CELL PANEL LAYOUT BOM
																DISTRIBUTOR:	DISTRIBUTOR:	DISTRIBUTOR:	DISTRIBUTOR:	DISTRIBUTOR:
																CUMMINS CARIBBEAN	CUMMINS CARIBBEAN	CUMMINS CARIBBEAN	CUMMINS CARIBBEAN	CUMMINS CARIBBEAN
																7071681	7071681	7071681	7071681	7071681

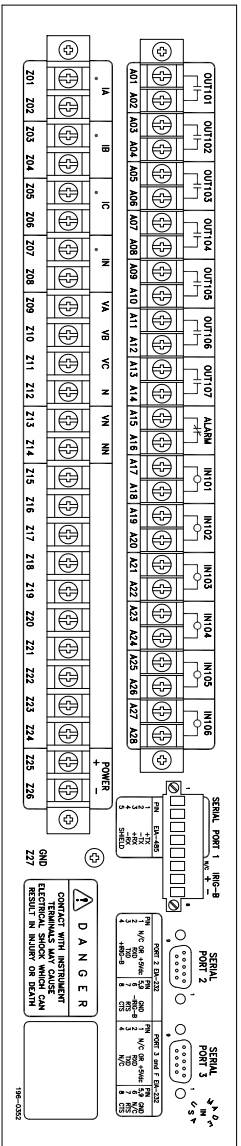
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	AUTOCAD DWG		

REV	DATE	DESCRIPTION OF MATERIAL	BY
1	06/17/10		V.SAKLANI
2	06/17/10		V. SIVAN
	06/17/10		K. T. MUMASI

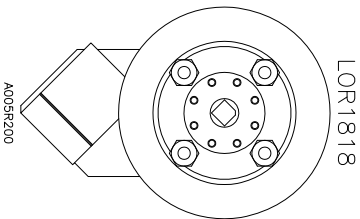
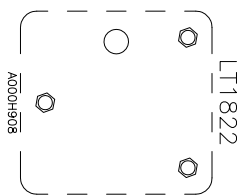
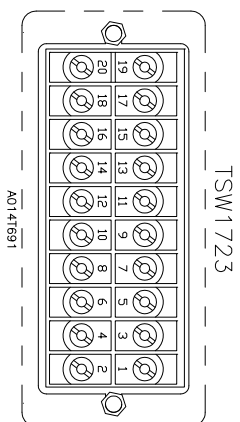
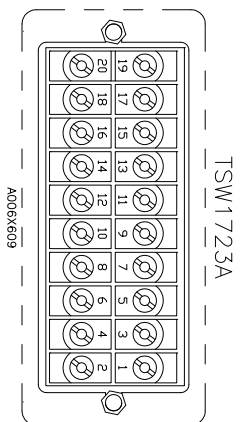
PART NO.	NAME	DATE	SITE CODE
POL2004R-772F	PG A		

TITLE	DATE	SHEET	TOTAL
CUMMINS POWER GENERATION	06/17/10	45	61
WD-SHEMATISC			

A B C D A B C D



KP1731



REAR DOOR VIEW

PC NO.	LTN NO.	REVISION	ZONE	DRN	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PC NO.	LTN NO.	REVISION	ZONE	DRN	CHKD	APPRV	DATE

PROJECT:		DISTRIBUTOR:	
ARECIBO OBSERVATORY SWITCHGEAR	SG S2A DOOR PANEL LAYOUT	CUMMINS CARIBBEAN	7071681

DO NOT SCALE PRINT	SCALE TO	SCALE UP
AUTOCAD DWG		

REV	DATE	DESCRIPTION OF MATERIAL
06/17/10	06/17/10	

PART NO.	NAME	DATE	SITE CODE
V.SAKLANI	V. SIVAN	06/17/10	PGA

TITLE	DWG NO.	SHEET	REV
CUMMINS POWER GENERATION	WD-SCHEMATISC	46 of 61	D

TASK	QTY	SUB	CATALOG	ORG LEGACY	MFG	DESCRIPTION
KP1731	1		A005P988	0307-3033-08	SCHWEITZER	PROTECTIVE RELAY (SEL 300G MULTIFUNCT) 48-125 VDC PS/ 125 VDC CV W/ DIFFERENTIAL PROJECTION MOUNT 03000105325X4X
LOR1818	1		A005R200	0307-2981-09	ELECTROSWTGH	LOOKOUT RELAY /W INDICATOR 4 DECK 4 VOLT RED INDICATOR, MAINTAINED CONTACTS 20A, 600V 78FA04D-011
LT1822	1		A000H908	0308-1117-02	ELECTROSWTGH	BEZEL - BREAKER STATUS LIGHTS BREAKER STATUS RED & GRN LED INDICATED 658R201UA
TSW1723A	1		A006X609	0308-1156-01	ABB	RELAY TEST SWITCH - 6 CURRENT, 4 POTENTIAL 4 POLE 6 POLE 658A010G01
TSW1723	1		A0141691	0308-1156-05	ABB	8 POLE 658A010G01 RELAY TEST SWITCH - 8 CURRENT 9672410G01

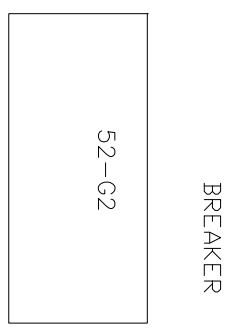
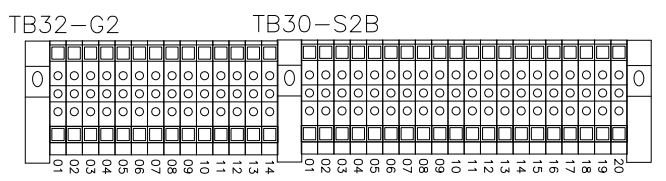
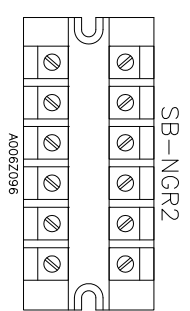
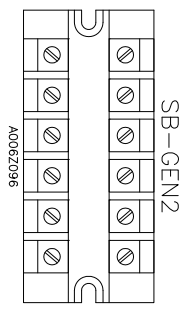
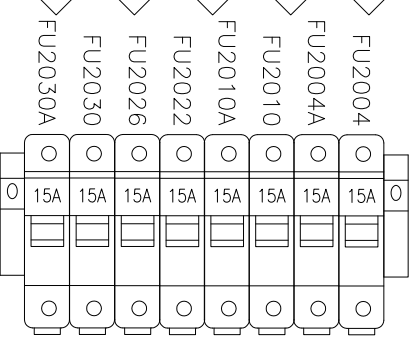
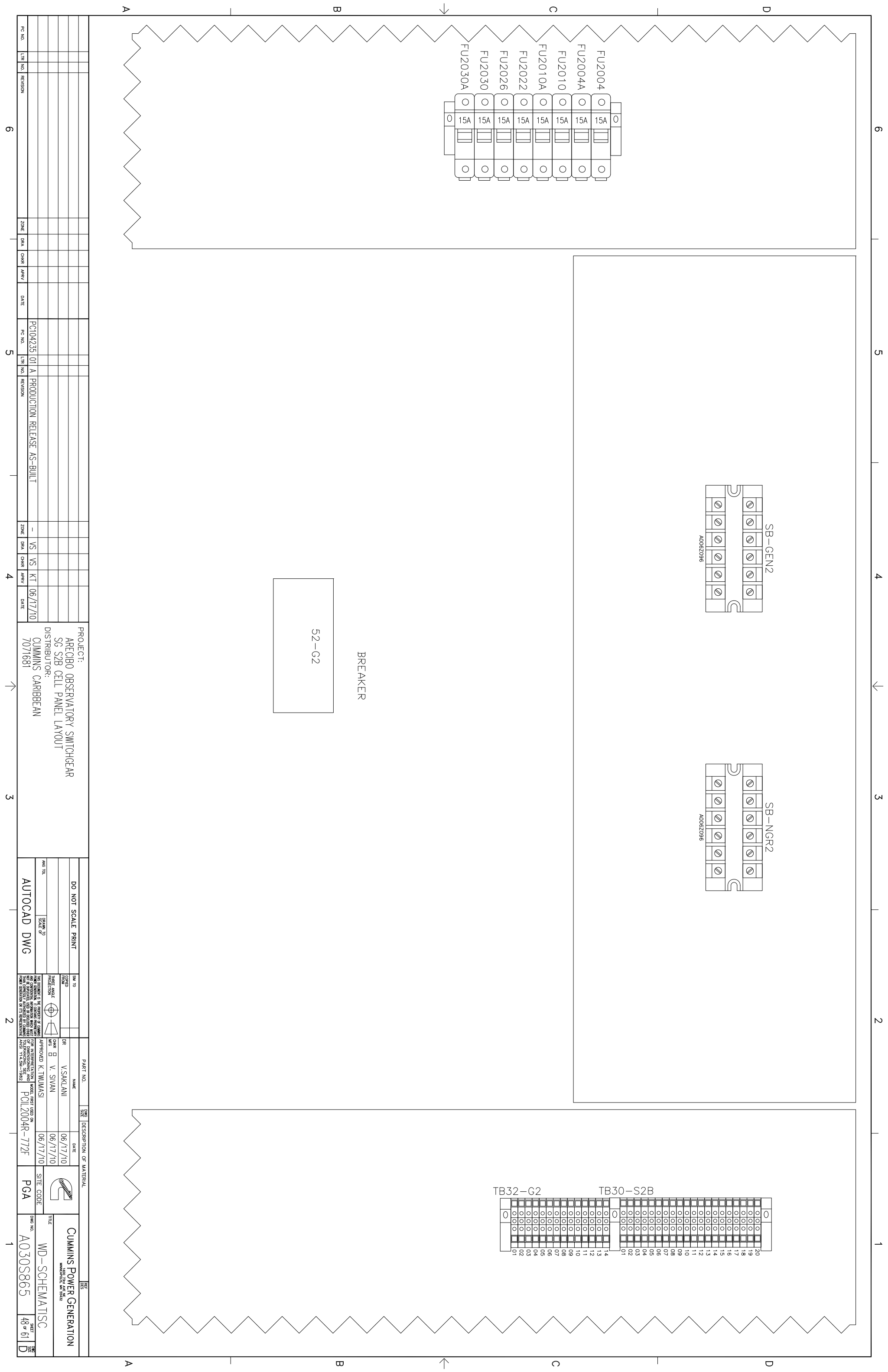
PC NO.	LT# NO.	REVISION	ZONE	BRK	CHKG	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
ARECIBO OBSERVATORY SWITCHGEAR
SG S2A DOOR PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

DO NOT SCALE PRINT	SW ID	DATE
AUTOCAD DWG	06/17/10	06/17/10

DATE	DESCRIPTION OF MATERIAL	SITE CODE
06/17/10		PGA

	
CUMMINS POWER GENERATION <small>MANUFACTURING AND SERVICE</small>	
TITLE WD-SCHEMATISC	SHEET 47 of 61
DWG NO. A030S865	DATE 4/21/10



PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE	PROJECT:	ARCIBO OBSERVATORY SWITCHGEAR																			
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10	SG SZB CELL PANEL LAYOUT																			
																DISTRIBUTOR:	CUMMINS CARIBBEAN																			
																7071681																				
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DO NOT SCALE PRINT	SW ID	DIR	DATE	TITLE																																
AUTOCAD DWG	06/17/10	V.SAKLANI	06/17/10	CUMMINS POWER GENERATION																																
		V. SIVAN	06/17/10	WD - SCHEMATISC																																
		K. TIMJWASI																																		
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SCALE OF	SCALE UP	DATE	SITE CODE	DWG NO.	SHEET	TOTAL SHEETS																														
			PGA	A030S865	48	61																														

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PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE	
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

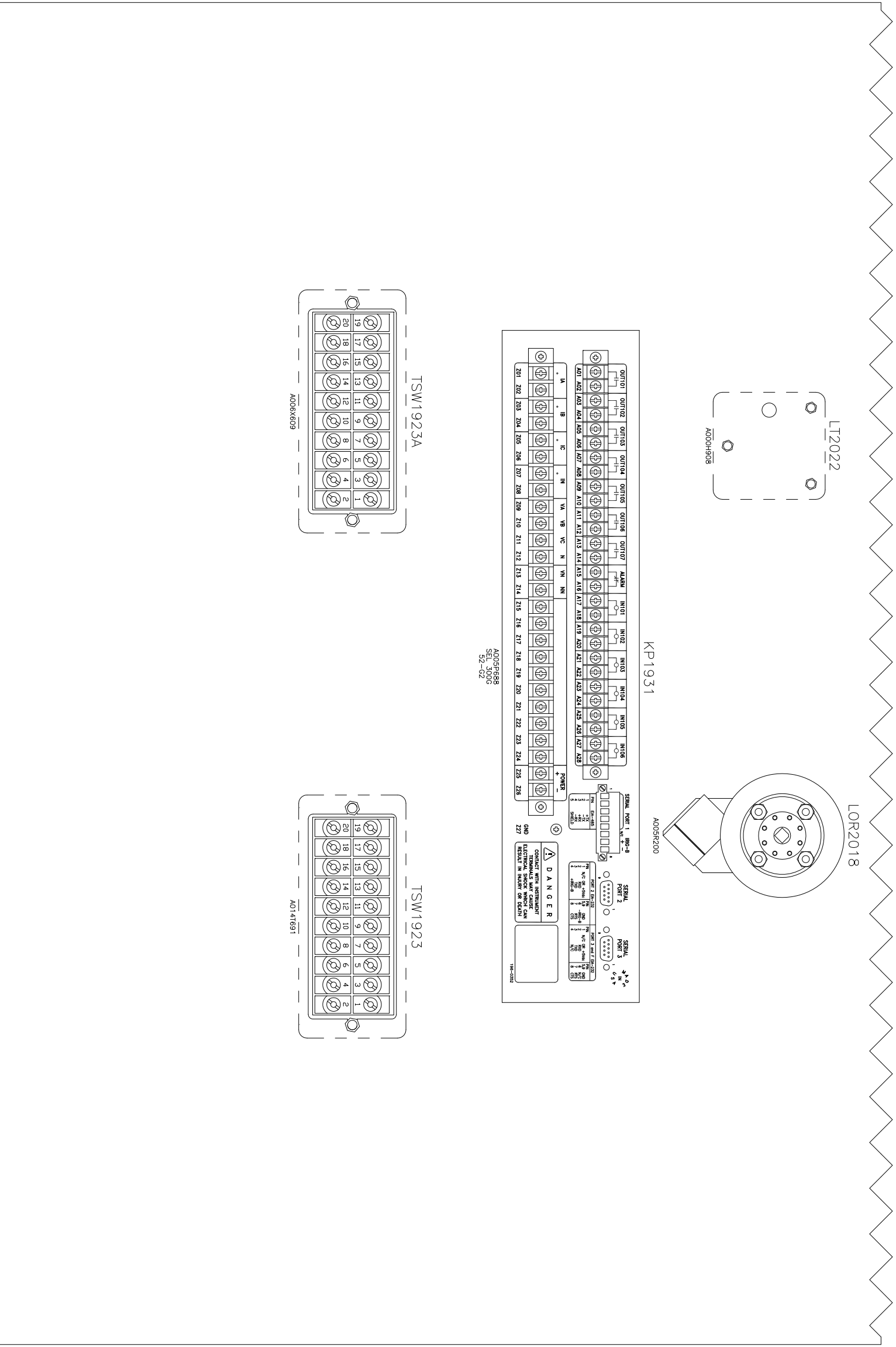
PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 SG SZB DOOR PANEL LAYOUT
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT	SCALE TO	SCALE OF
AUTOCAD DWG		

PART NO.	NAME	DATE	DESCRIPTION OF MATERIAL
DR	V.SAKLANI	06/17/10	
CARE	V. SIVAN	06/17/10	
MFG			
APPROVED	K. TAJUMASI	06/17/10	

TITLE	CUMMINS POWER GENERATION
DWG NO.	WD-SCHEMATISC
NO.	AO30S865
SHEET	50 of 61
REV	D

REAR DOOR VIEW



A B C D 6 5 4 3 2 1

TAGS	QTY	SUB	CATALOG	PRG LEGACY	MFG	DESCRIPTION
KP1931	1		A005F698	0307-3033-08	SCHWEITZER	PROTECTIVE RELAY (SEL. 300G MULTIFUNCT) SEL. 300G PS / 125 VDC CV W/ DIFFERENTIAL PROJECTION MOUNT 0300G105325XXX4X
LOR2018	1		A005R200	0307-2981-09	ELECTROSWITCH	LOCKOUT RELAY /W INDICATOR 4 DECK 125VDC INDICATOR, MAINTAINED CONTACTS 20A, 600V 78PAQ4D-011
LT2022	1		A000H908	0308-1117-02	ELECTROSWITCH	BREZEL - BREAKER STATUS LIGHTS BREAKER STATUS 48-125 VDC LED INDICATED 658PR201YA
TSW1923A	1		A006X609	0308-1156-01	ABB	RELAY TEST SWITCH - 6 CURRENT, 4 POTENTIAL 6 POLE
TSW1923	1		A014T691	0308-1156-05	ABB	RELAY TEST SWITCH - 8 CURRENT 6 POLE

PC NO.	LT# NO.	REVISION	ZONE	BRK	CHKG	APPV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
 ARECIBO OBSERVATORY SWITCHGEAR
 SG SZB DOOR PANEL LAYOUT BOM
 DISTRIBUTOR:
 CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT

AUTOCAD DWG

PART NO.	NAME	DATE	DESCRIPTION OF MATERIAL	SITE CODE
DIR	V.SAKLANI	06/17/10		
CHK	V. SIVAN	06/17/10		
MFG	K. TAJUWASI	06/17/10		

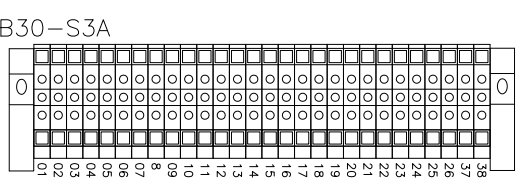
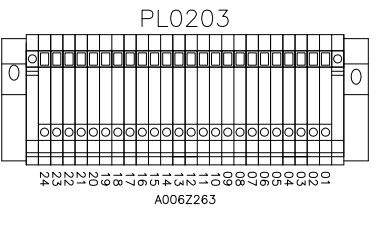
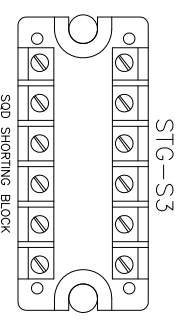
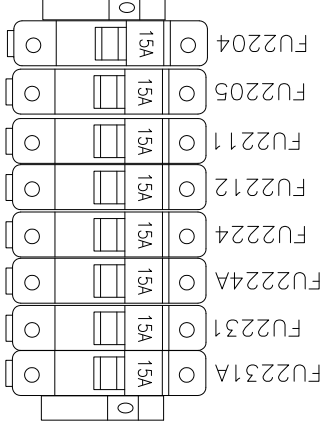
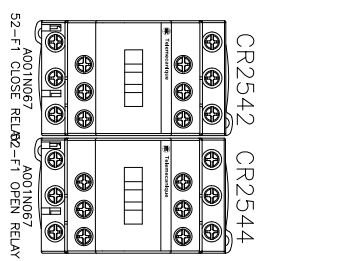
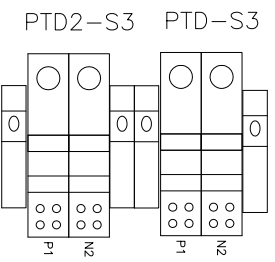
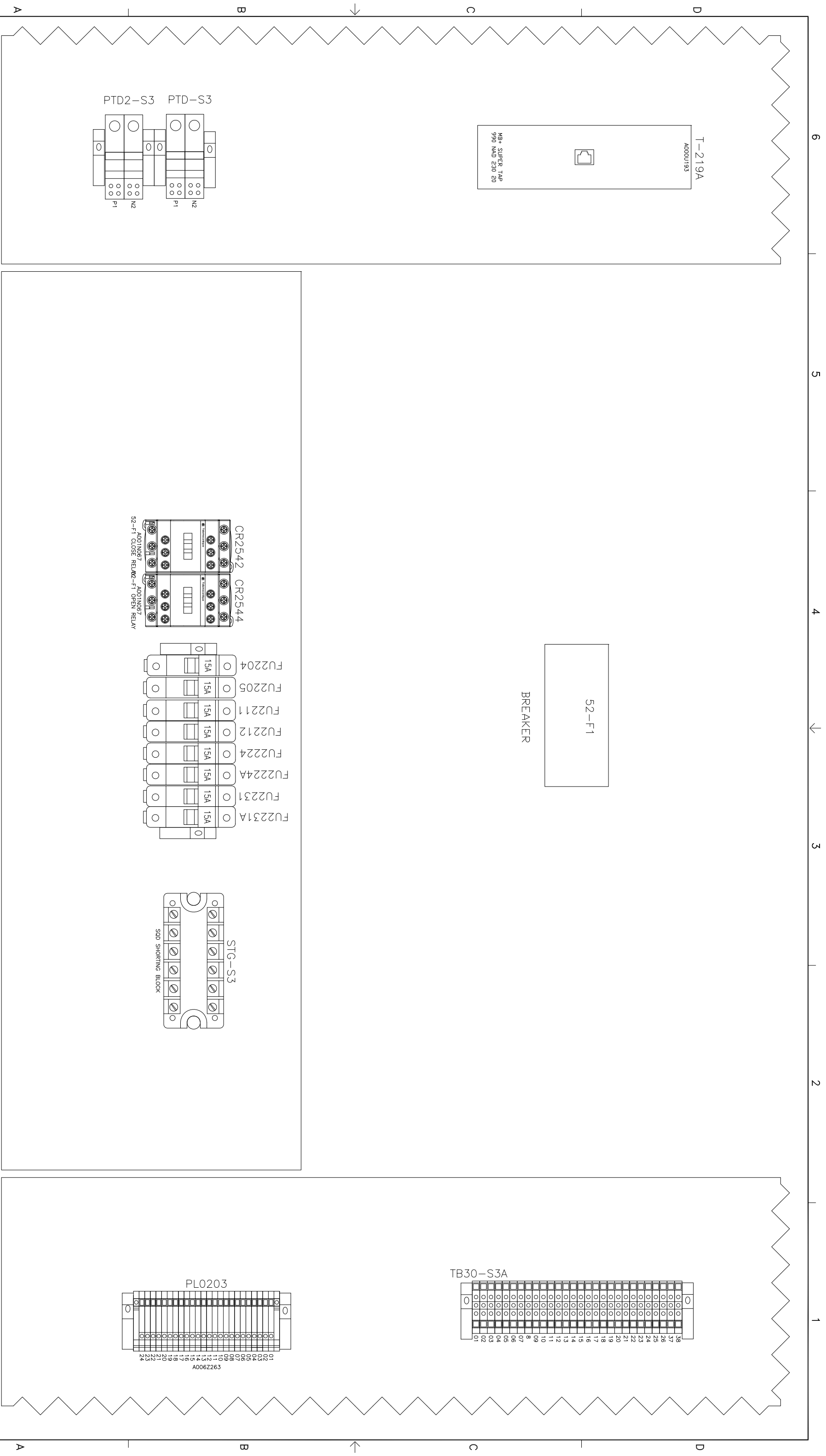
CUMMINS POWER GENERATION

WD-SHEMATISC

PGC

A030S865

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PC NO.	LTN NO.	REVISION	ZONE	BRK	CARE	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT: ARECIBO OBSERVATORY SWITCHGEAR
 SG S3A CELL PANEL LAYOUT
 DISTRIBUTOR: CUMMINS CARIBBEAN
 7071681

DO NOT SCALE PRINT
 AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL
01	06/17/10	ISSUED FOR PRODUCTION
02	06/17/10	REVISED FOR APPROVAL

PART NO.	NAME	DATE	SITE CODE	TITLE
PCIL2004R-772F	V.SAKLANI	06/17/10	PGA	CUMMINS POWER GENERATION
	V. SIVAN	06/17/10		WD-SCHEMATISC
	K. THUMMASI			

WD-SCHEMATISC
 A030S865
 SHEET 52 of 61

TASK	QTY	SUB	CATALOG	CPG LEGACY	MFG	DESCRIPTION
T-219A	1		A000U193	0324-0027-01	MODICON	MODBUS PLUS SUPER TAP CABLE TAP W/ R45 PORT
PJ0203	1		A006Z263	0332-3482-04	WEDMULLER	TERMINAL - PLUGGABLE, SIZE MOUNT, 24 POLE ASSEMBLY
52-F1	1		WV UPPER CELL	0307-2900-05	SQUARE D	22 - 12 AWG CIRCUIT BREAKER
CR2542 CR2944	2		A001N067		TELEMECHANIQUE CONTRACTOR	CONTRACTOR-LOW PWR COLL, 24VDC 2 NO.1 NC, 18A/32A LC1D18BL
FU2204 FU2205 FU2211 FU2212 FU2224 FU2224A FU2231 FU2231A	8	*1	A002K943	0321-0363-30	BUSSMANN	FUSE - CLASS CC 5AMPS 6P-CC-15 LP-CC-15 USE WITH FUSE BLOCK 0321-0344
PRD-S3 PID2-S3	4				GOULD	1 POLE FUSE BLOCK - CLASS CC FUSE BLOCK 1/10-30AMPS 600VAC PRESSURE PLATE TERM USCCT USE WITH FUSES LP-CC* DC BUS TERMINAL TERMINAL BY SQUARE D VENDOR SUPPLIED
STC-S3	1		SOD SHORTING BLOCK		SQUARE D	SUPPLIED BY SQUARE D SHORTING BLOCK BY SQUARE D
TB30-S3A	26		A006Z117	0332-3125-01	WEDMULLER	TERMINAL BLOCK SINGLE LEVEL 600V, 20A SINGLE LEVEL, FEED THROUGH 24-12 AWG 250A/B

PC NO.	LTR NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE
PC104235	01	A					06/17/10

PROJECT:
ARECIBO OBSERVATORY SWITCHGEAR
SG S3A PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

DO NOT SCALE PRINT
AUTOCAD DWG

REV	DATE	DESCRIPTION OF MATERIAL	SITE CODE
DIR	06/17/10		
CHKD	06/17/10		
APPRV	06/17/10		

PART NO. NAME DATE
V.SAKLANI 06/17/10
V. SIVAN 06/17/10
K. TAJUMASI 06/17/10
APPROVED K. TAJUMASI
PCL2004R-772F
PGA
TITLE
CUMMINS POWER GENERATION
WD-SCHEMATISC
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TASK	QTY	SUB	CATALOG	PGC LEGACY	MFG	DESCRIPTION
KPZ124	1		A005P719	0307-3032-06	SCHWEITZER	PROTECTIVE RELAY (SEL 551 MULTIFUNCT) 551-125 VDC PS / 125 VDC CV RS232 COMMUNICATION PORT PROJECTION MOUNT 0551003X551X
LOR2219	1		A005R200	0307-2981-09	ELECTROSWITCH	LOCKOUT RELAY / W INDICATOR 4 DECK 125 VDC RED LED INDICATOR, MAINTAINED CONTACTS 20A, 600V 78PK04D-011
SS2206	1		A006K492	0308-1112-02	ELECTROSWITCH	SWITCH-ROTARY - 3 POS, SPRG RTRN FRM BOTH BREAKER CONTROL SWITCH 20A, 125 VDC LED INDICATED, TRIP/CLOSE LED INDICATED, PISTOL HANDLE 24PB38D
SS2205	1		A006K504	0308-1111-05	ELECTROSWITCH	SWITCH ROTARY - 2 POS MAINT -ILLUM MODE 20A 24V AUTO/MANUAL, LED INDICATED, PISTOL HANDLE 24PK204LA
TSW2117	1		A014T691	0308-1156-05	ABB	RELAY TEST SWITCH - 8 CURRENT 8 POLE 9872A10301

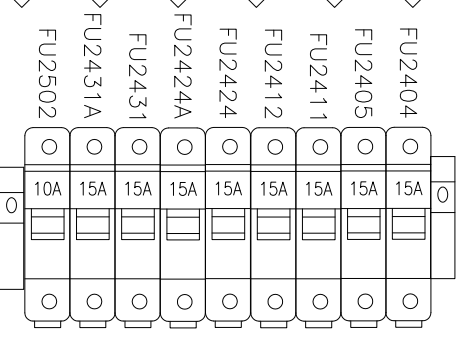
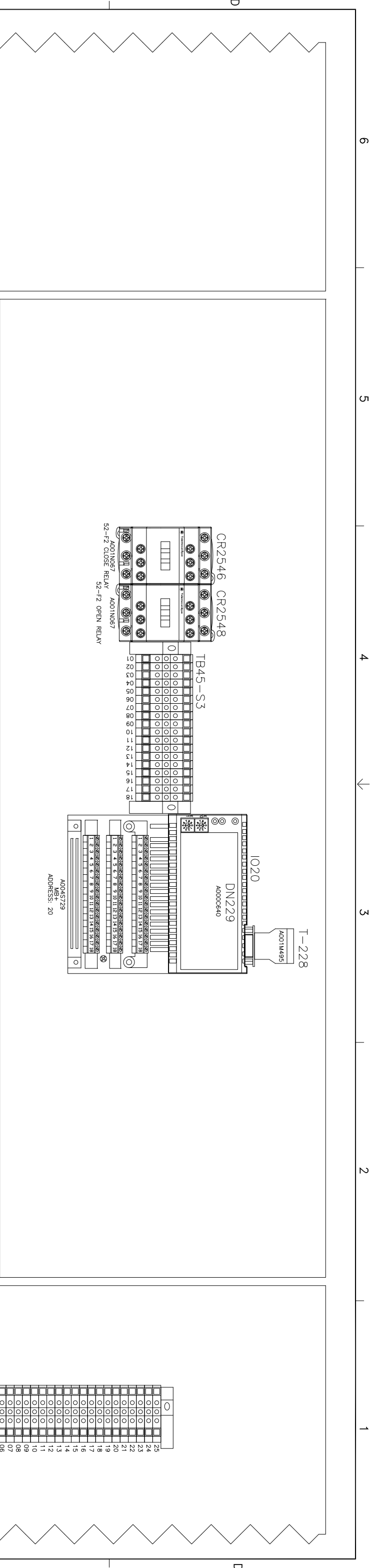
PC NO.	LTN NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE
PC104235	01	A PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10

PROJECT:
ARECIBO OBSERVATORY SWITCHGEAR
SG S3A DOOR PANEL LAYOUT BOM
DISTRIBUTOR:
CUMMINS CARIBBEAN
7071681

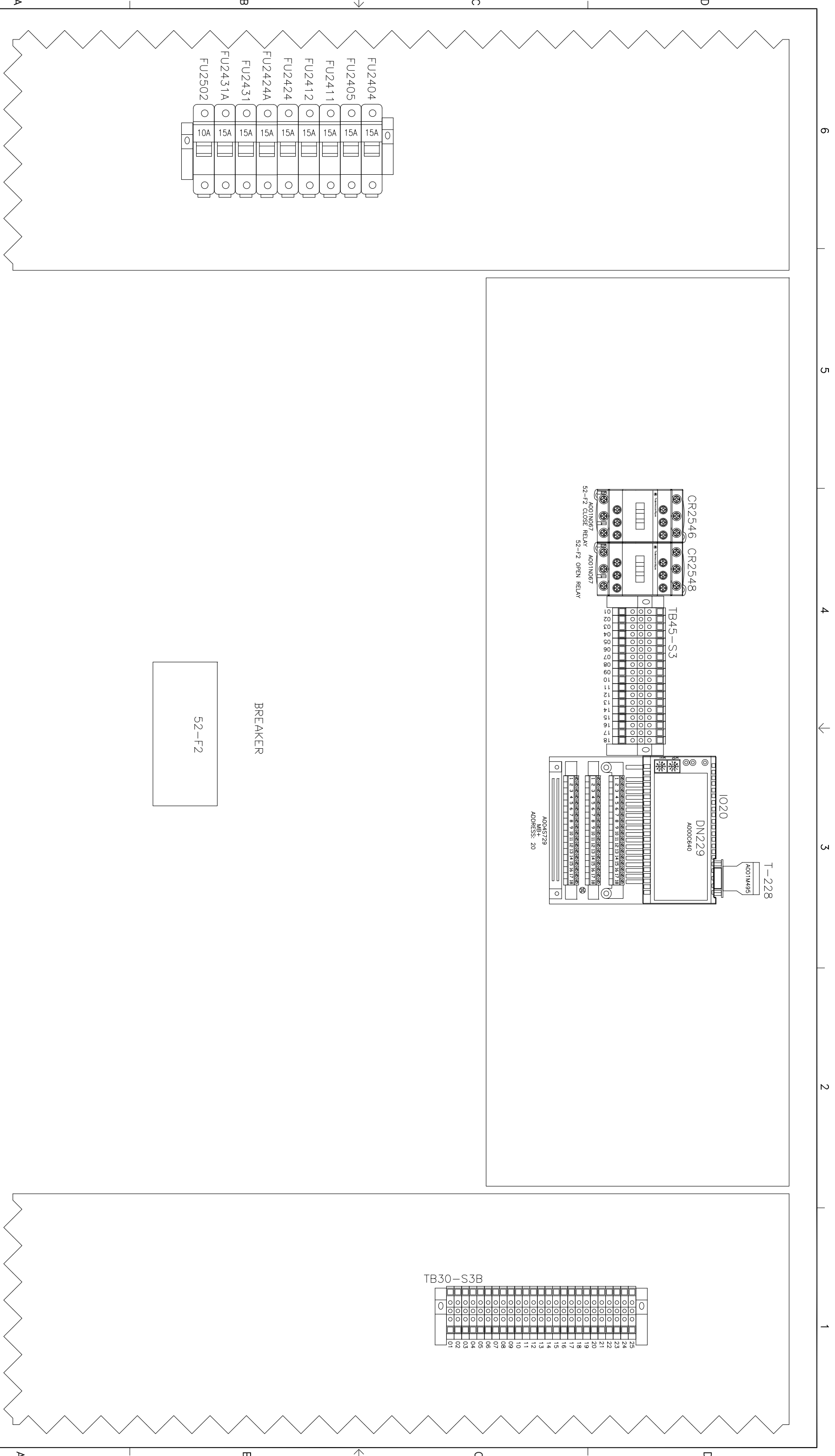
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AUTOCAD DWG	SCALE UP	SCALE UP

PART NO.	NAME	DATE	DESCRIPTION OF MATERIAL	SITE CODE
DIR	V.SAKLANI	06/17/10		
CHKD	V. SIVAN	06/17/10		
MFG	K. TIMMASI	06/17/10		
APPROVED	K. TIMMASI			

TITLE	CUMMINS POWER GENERATION
WD - SCHEMATISC	
DWG NO.	A030S865
SHEET	55 of 61
REV	D

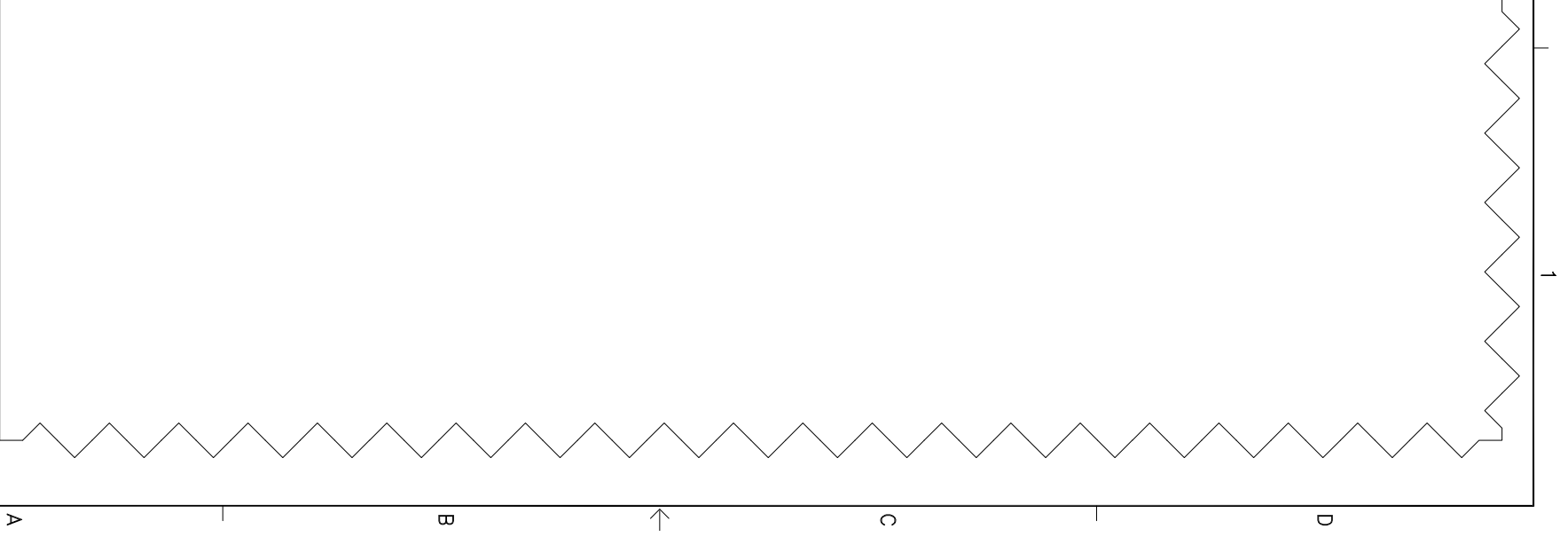
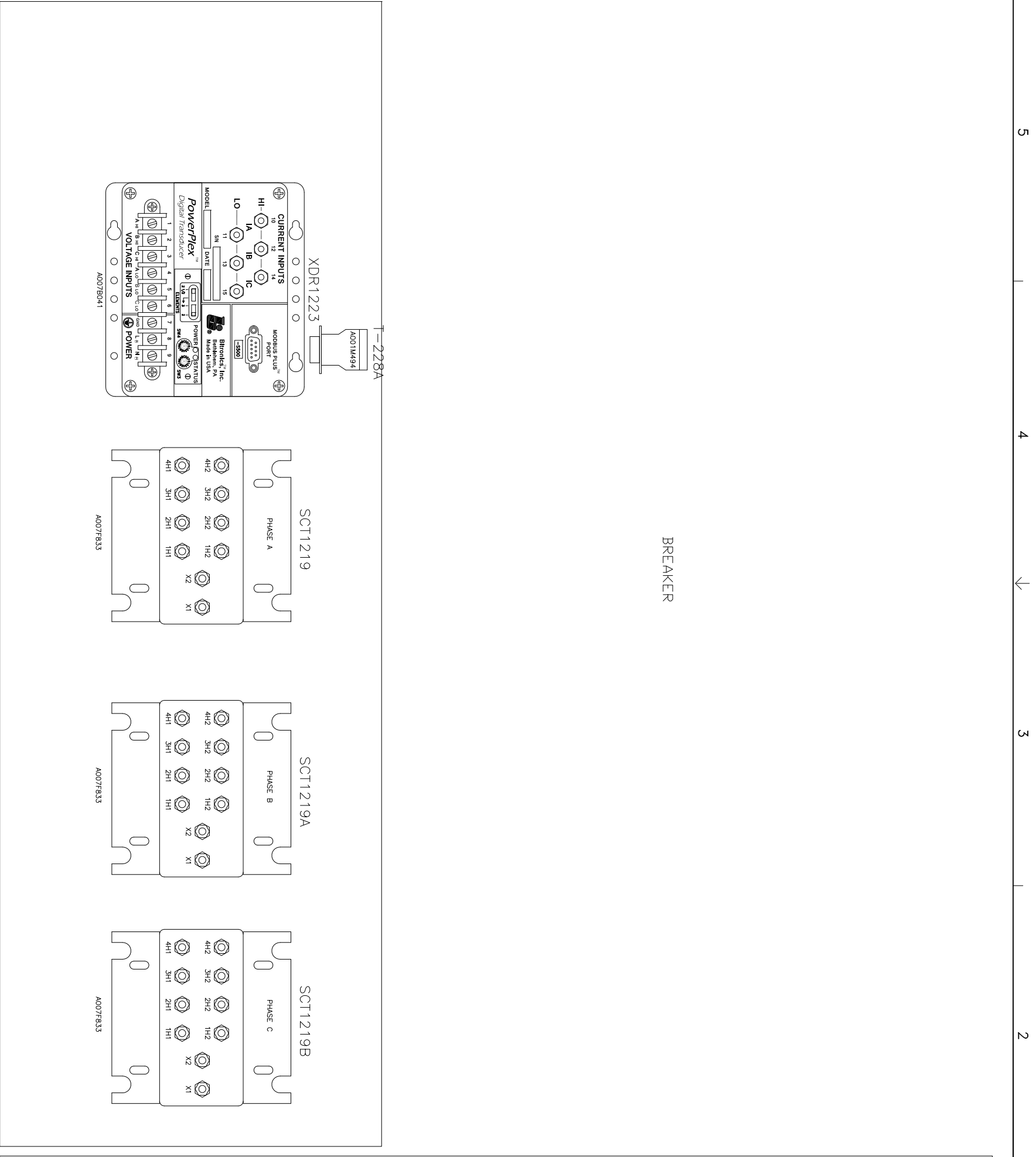
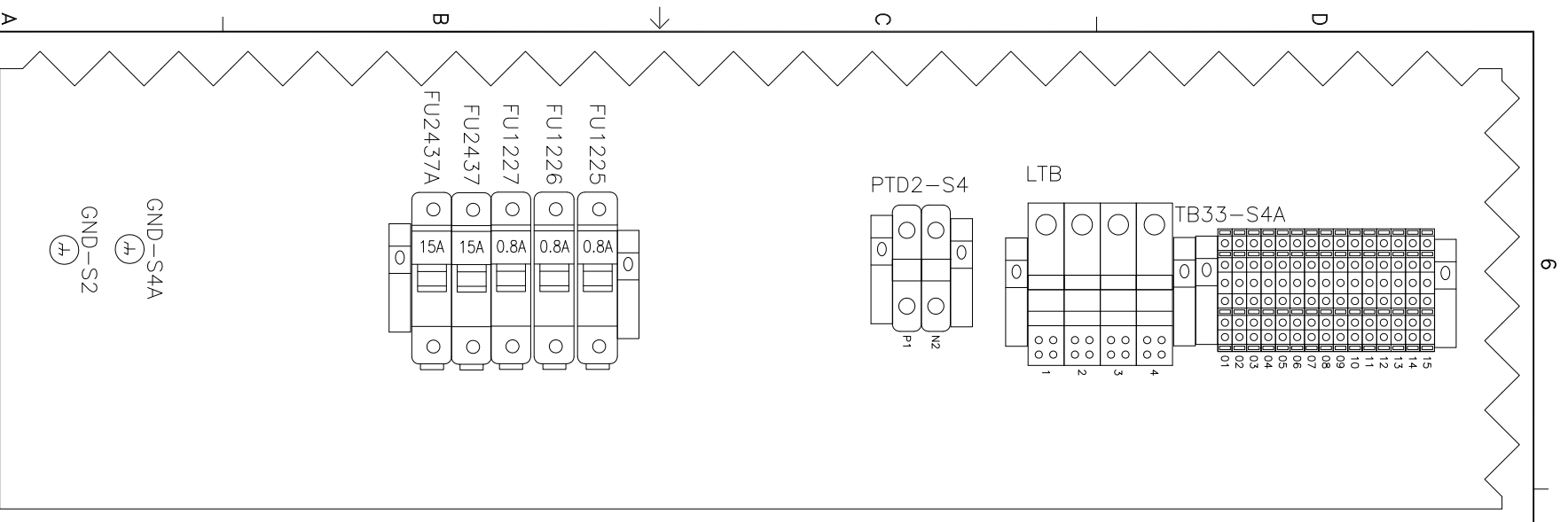


BREAKER
52-F2



PC NO.	LTN NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	BRK	CHKD	APPRV	DATE	PROJECT:	DO NOT SCALE PRINT	SCALE TO	DATE	DATE	SITE CODE	TITLE	SHEET
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10	ARCIBO OBSERVATORY SWITCHGEAR SG S3B CELL PANEL LAYOUT DISTRIBUTOR: CUMMINS CARIBBEAN 7071681	AUTOCAD DWG			PGA	CUMMINS POWER GENERATION WD-SCHEMATISC	56 of 61

6 5 4 3 2 1



PC NO.	LTN NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE	PC NO.	LTN NO.	REVISION	ZONE	DATA	CHKD	APPRV	DATE	PROJECT:	SCALE:	DATE:	TITLE:	
								PC104235	01	A	PRODUCTION RELEASE AS-BUILT	-	VS	VS	KT	06/17/10	ARCIBO OBSERVATORY SWITCHGEAR SG S4A CELL PANEL LAYOUT DISTRIBUTOR: CUMMINS CARIBBEAN 7071681	AUTOCAD DWG	06/17/10	WD-SCHEMATISC

REV	DESCRIPTION OF MATERIAL	DATE	BY	CHKD
1		06/17/10	V.SAKLANI	
2		06/17/10	V. SIVAN	

PART NO. _____ NAME _____ DATE _____ DRG NO. _____ MFG _____ APPROVED: K. TIMMANS DATE: 06/17/10	DO NOT SCALE PRINT SCALE: 1" = _____' DATE: 06/17/10 DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____	THIS DOCUMENT IS THE PROPERTY OF CUMMINS INC. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.
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PROJECT: ARCIBO OBSERVATORY SWITCHGEAR SG S4A CELL PANEL LAYOUT DISTRIBUTOR: CUMMINS CARIBBEAN 7071681	PROJECT: _____ DATE: _____ DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____	TITLE: WD-SCHEMATISC DWG NO.: A030S865 SHEET: 60 of 61 DATE: _____
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