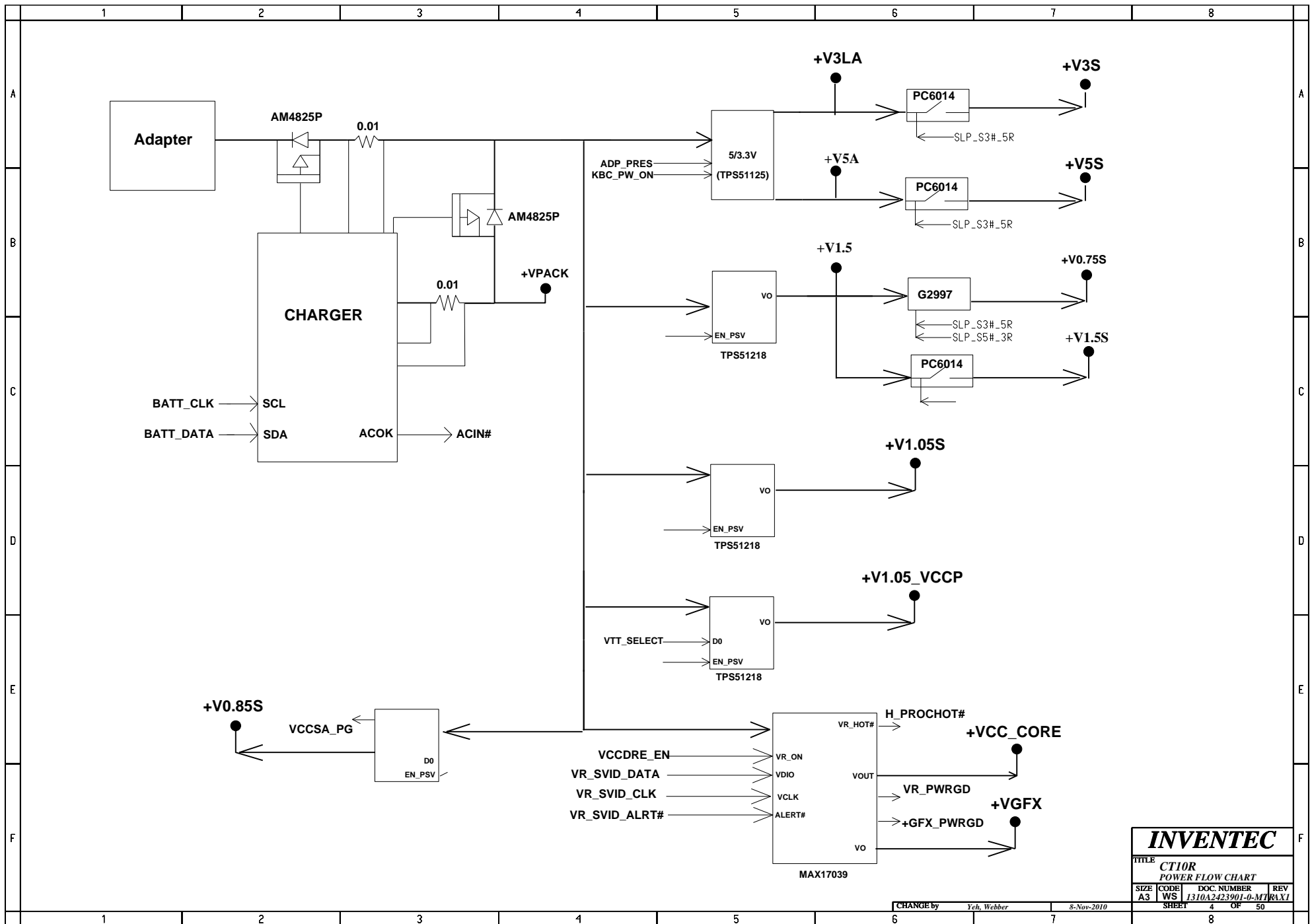


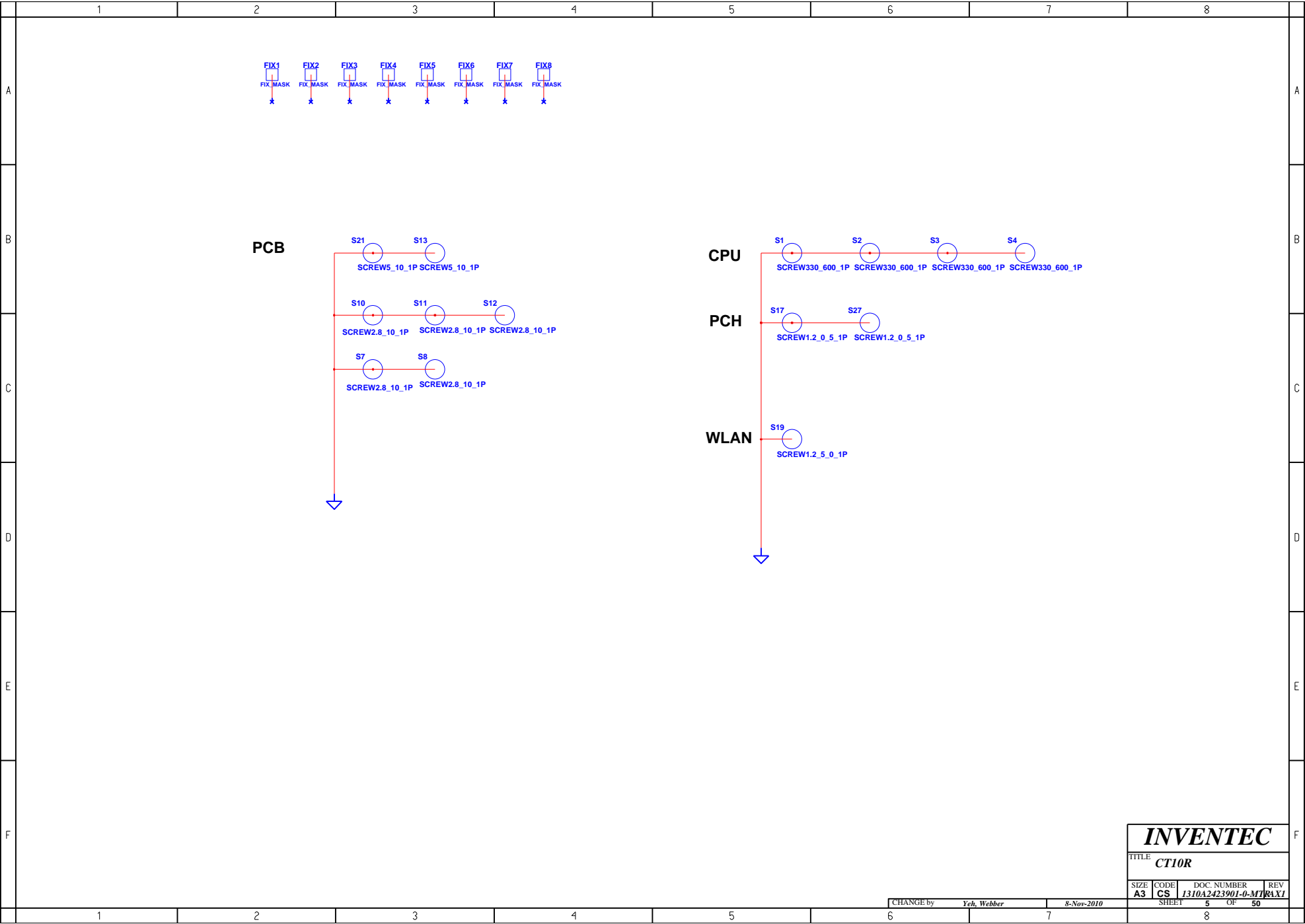
	1	2	3	4	5	6	7	8																																																																								
A	THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF INVENTEC CORPORATION AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION, INVENTEC CORPORATION 2009 ALL RIGHT RESERVED																																																																															
	HSF Property : <b>RoHS</b>																																																																															
B	<div>CT10R ES Build 2010.11.29</div>																																																																															
C																																																																																
D																																																																																
E																																																																																
F																																																																																
	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table>																						DATE	CHANGE NO.	REV	<table><tr><td></td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td></tr><tr><td>DRAWER</td><td></td><td></td><td></td><td></td></tr><tr><td>DESIGN</td><td></td><td></td><td></td><td></td></tr><tr><td>CHECK</td><td></td><td></td><td></td><td></td></tr><tr><td>RESPONSIBLE</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">SIZE = A3      VER : AX1</td></tr><tr><td colspan="5">FILE NAME : CT10R-6050A6423901-MB-AX1-35</td></tr><tr><td>P/N</td><td colspan="4">6050A6423901</td></tr></table>		EE	DATE	POWER	DATE	DRAWER					DESIGN					CHECK					RESPONSIBLE					SIZE = A3      VER : AX1					FILE NAME : CT10R-6050A6423901-MB-AX1-35					P/N	6050A6423901				<table><tr><td colspan="4">TITLE <b>INVENTEC</b> COVER</td></tr><tr><td>SIZE <b>A3</b></td><td>CODE <b>WS</b></td><td>DOC. NUMBER <b>J310A2423901-0-MTR</b></td><td>REV <b>AX1</b></td></tr><tr><td colspan="2">SHEET</td><td colspan="2">1 OF 50</td></tr></table>	TITLE <b>INVENTEC</b> COVER				SIZE <b>A3</b>	CODE <b>WS</b>	DOC. NUMBER <b>J310A2423901-0-MTR</b>	REV <b>AX1</b>	SHEET		1 OF 50		8
DATE	CHANGE NO.	REV																																																																														
	EE	DATE	POWER	DATE																																																																												
DRAWER																																																																																
DESIGN																																																																																
CHECK																																																																																
RESPONSIBLE																																																																																
SIZE = A3      VER : AX1																																																																																
FILE NAME : CT10R-6050A6423901-MB-AX1-35																																																																																
P/N	6050A6423901																																																																															
TITLE <b>INVENTEC</b> COVER																																																																																
SIZE <b>A3</b>	CODE <b>WS</b>	DOC. NUMBER <b>J310A2423901-0-MTR</b>	REV <b>AX1</b>																																																																													
SHEET		1 OF 50																																																																														
	1	2	3	4	5	6	7	8																																																																								







INVENTEC				
TITLE CT10R POWER FLOW CHART				
SIZE A3	CODE WS	DOC. NUMBER 1310A2423901-0-MT	REV	MAX1
CHANGE by Yeh, Webber		8-Nov-2010		
SHEET 4		OF 50		



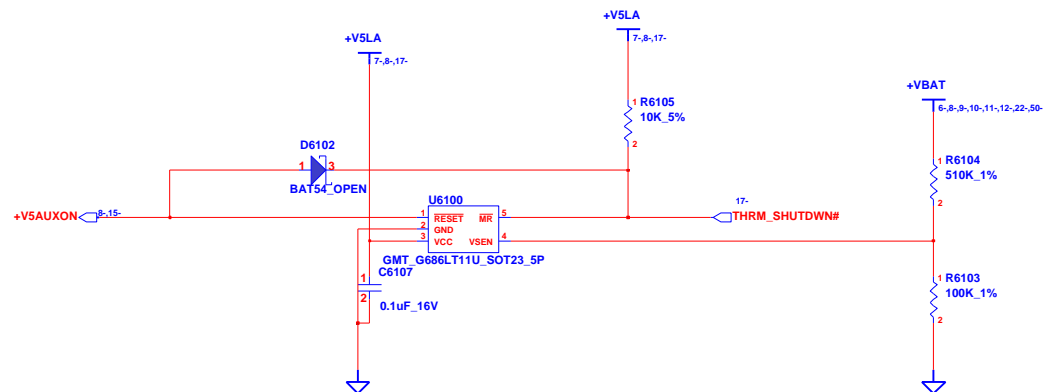
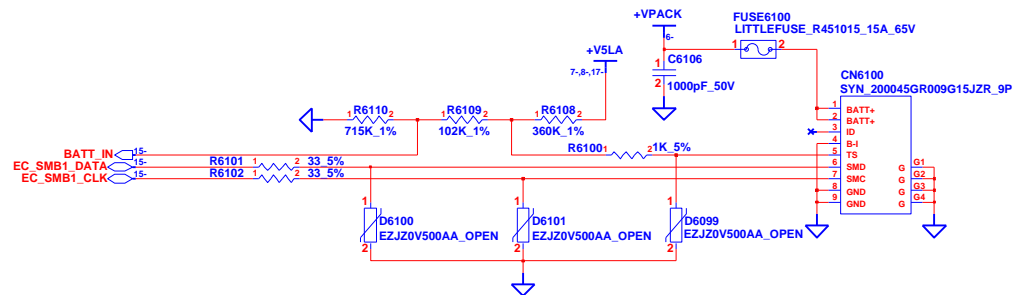
**INVENTEC**

TITLE  
**CT10R**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A2423901-0-MT</b>	REV <b>MAX1</b>
SHEET <b>5</b>		OF <b>50</b>	

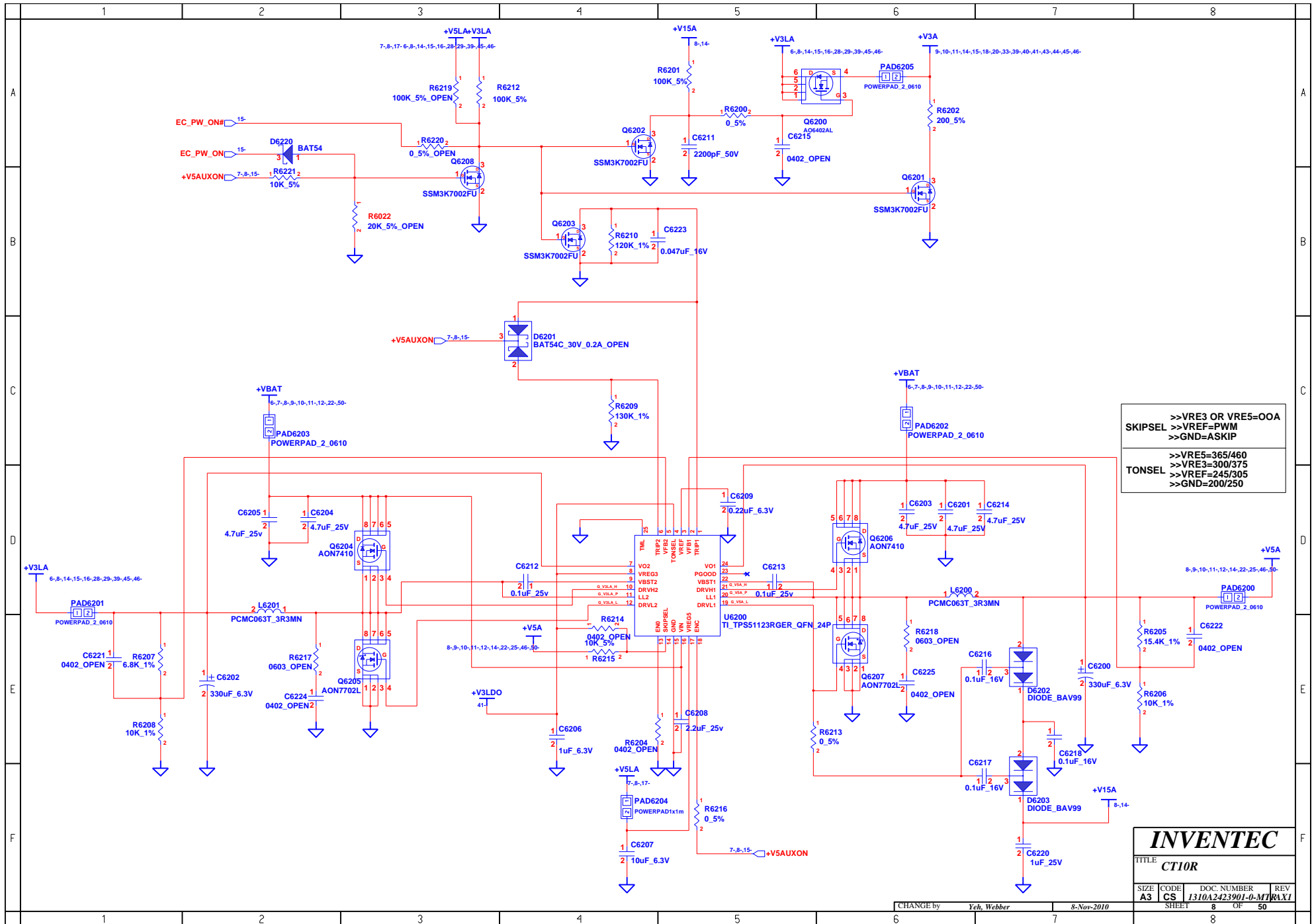
CHANGE by **Yeh, Webber** 8-Nov-2010



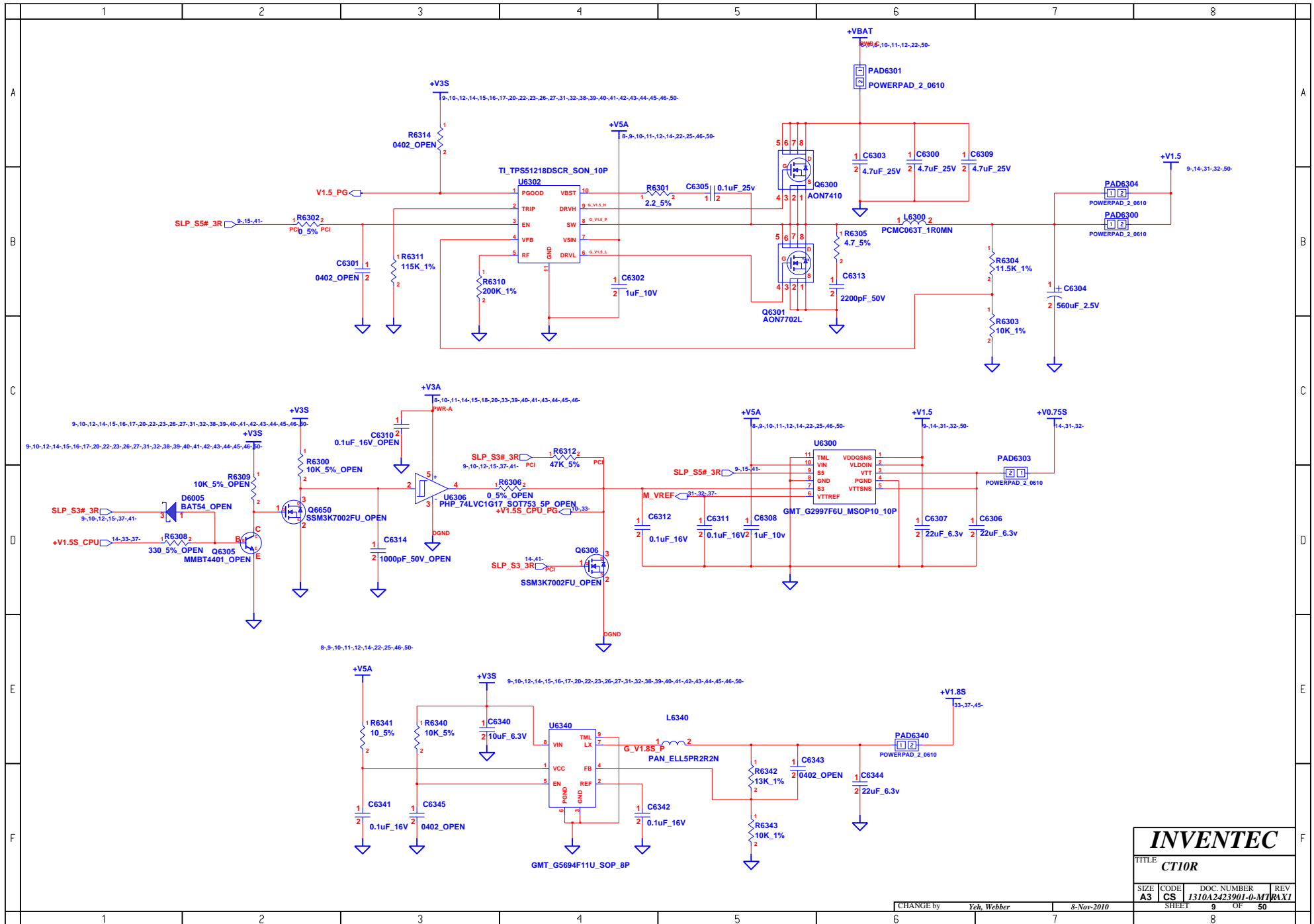


INVENTEC			
TITLE CT10R			
SIZE A3	CODE CS	DOC. NUMBER 1310A2423901-0-MT	REV RXX1
SHEET		7	OF 50

CHANGE by Yeh, Webber 8-Nov-2010



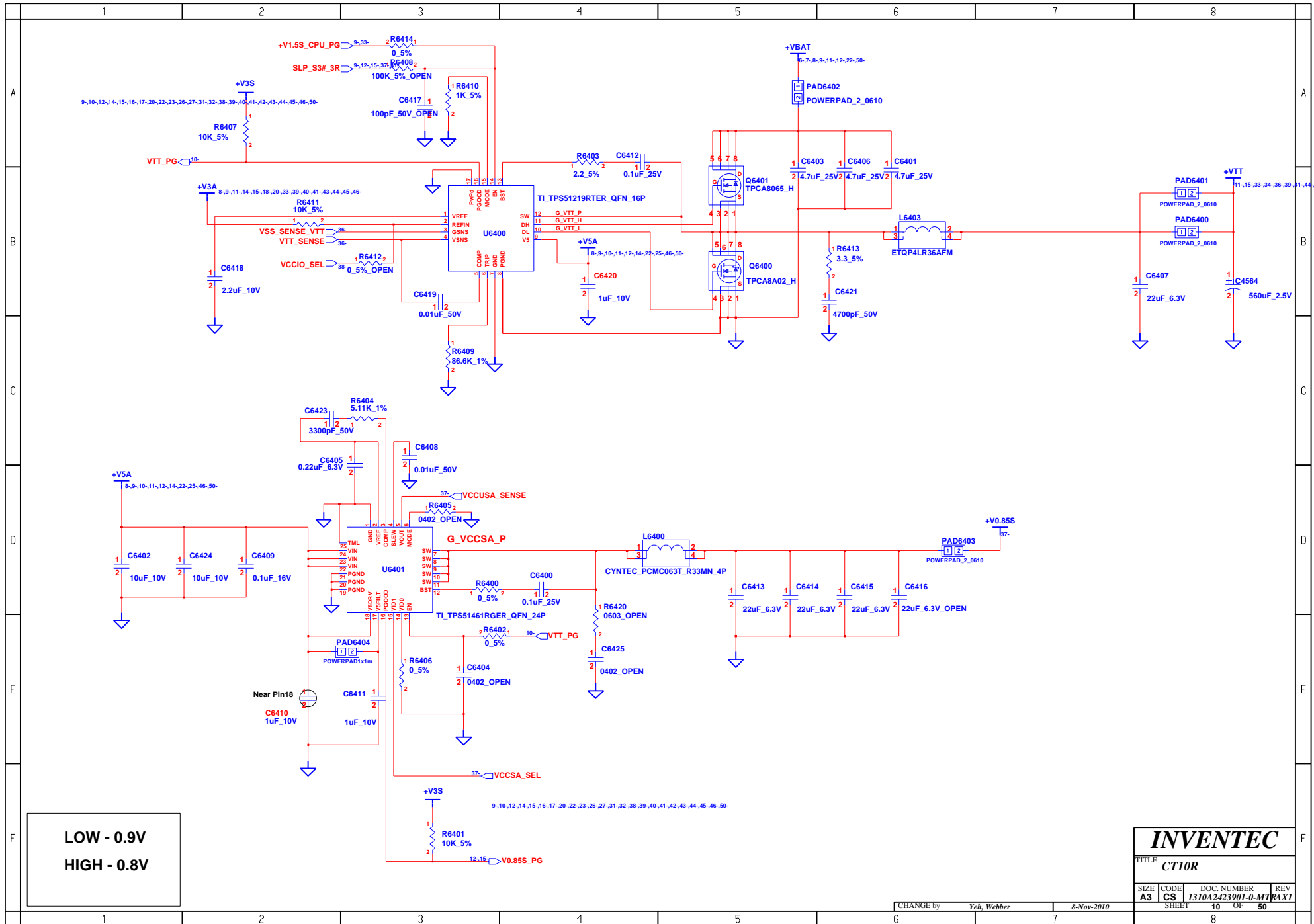


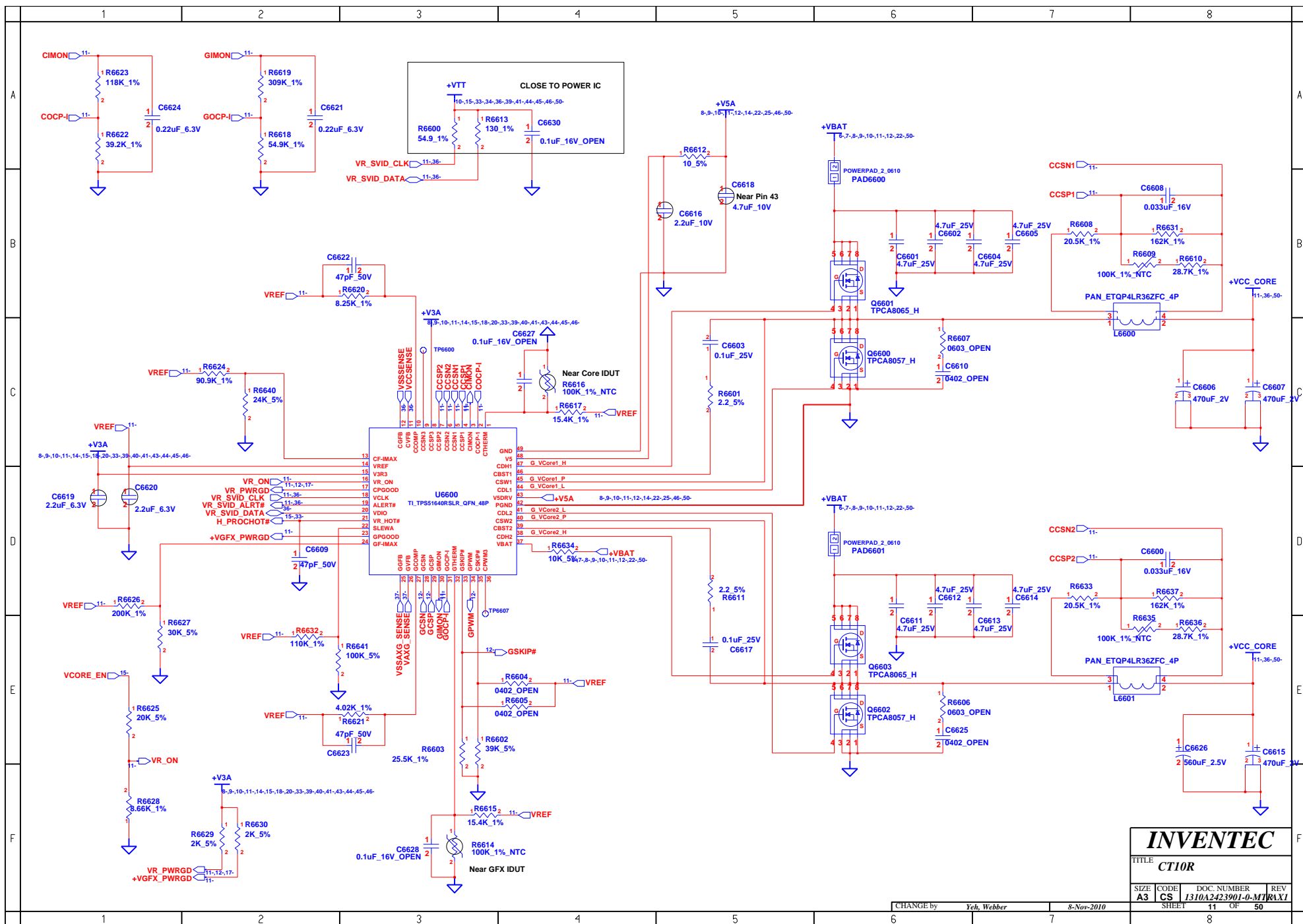


**INVENTEC**

TITLE			
CT10R			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	MAX1
SHEET		9	OF 50

CHANGE by Yeh, Webber 8-Nov-2010



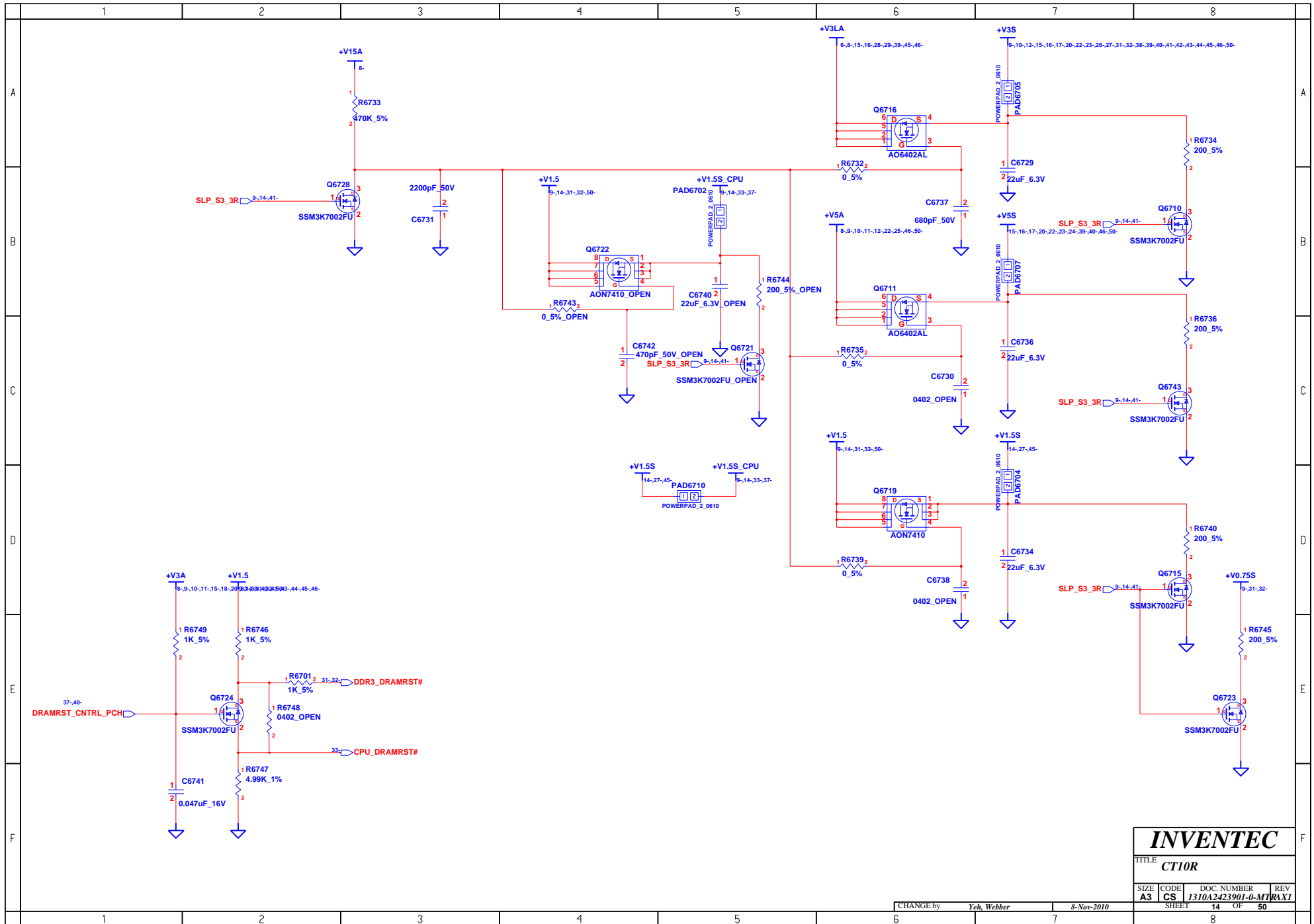


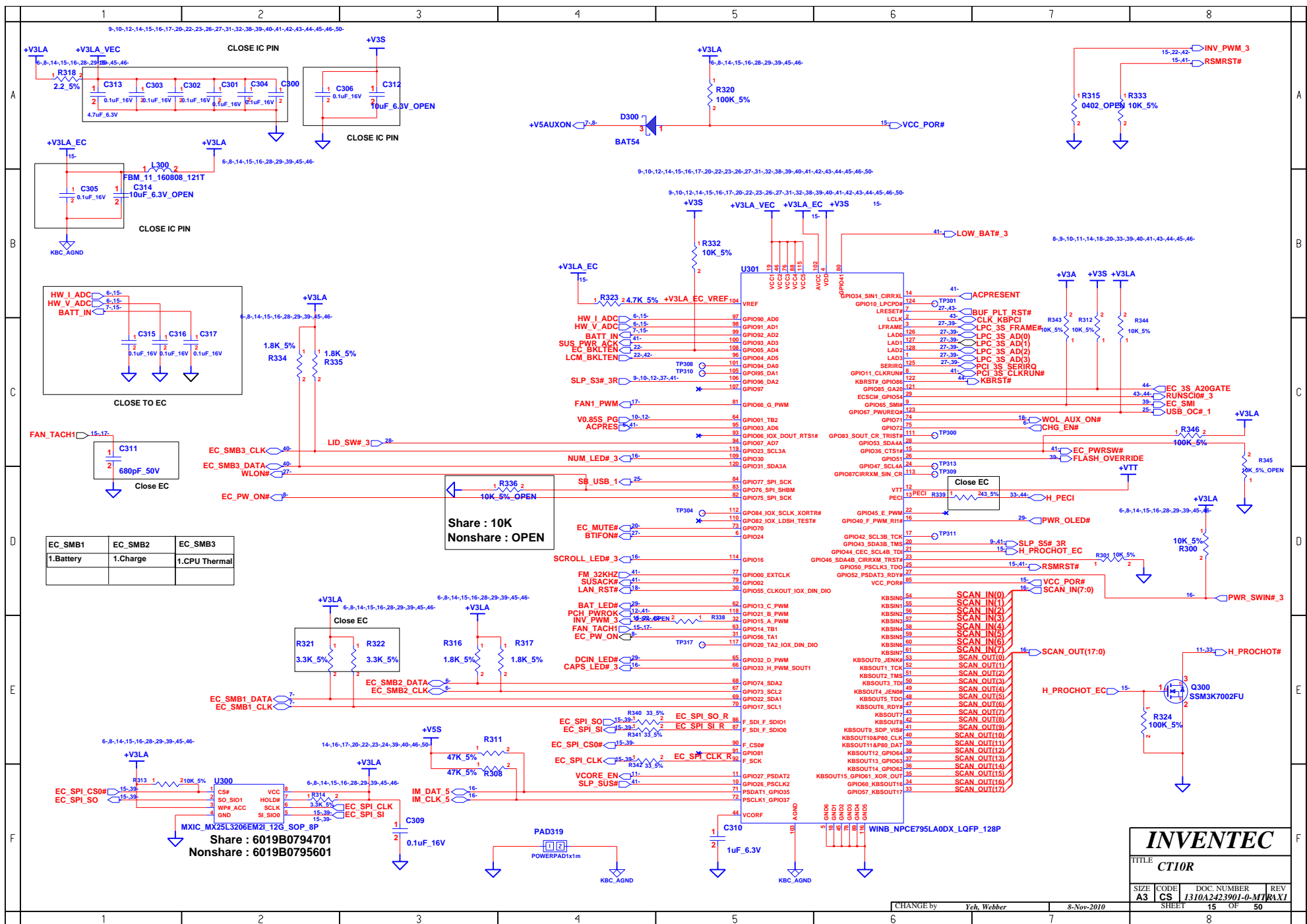


	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Yeh, Webber</i>		8-Nov-2010	
1	2	3	4	5	6	7	8		

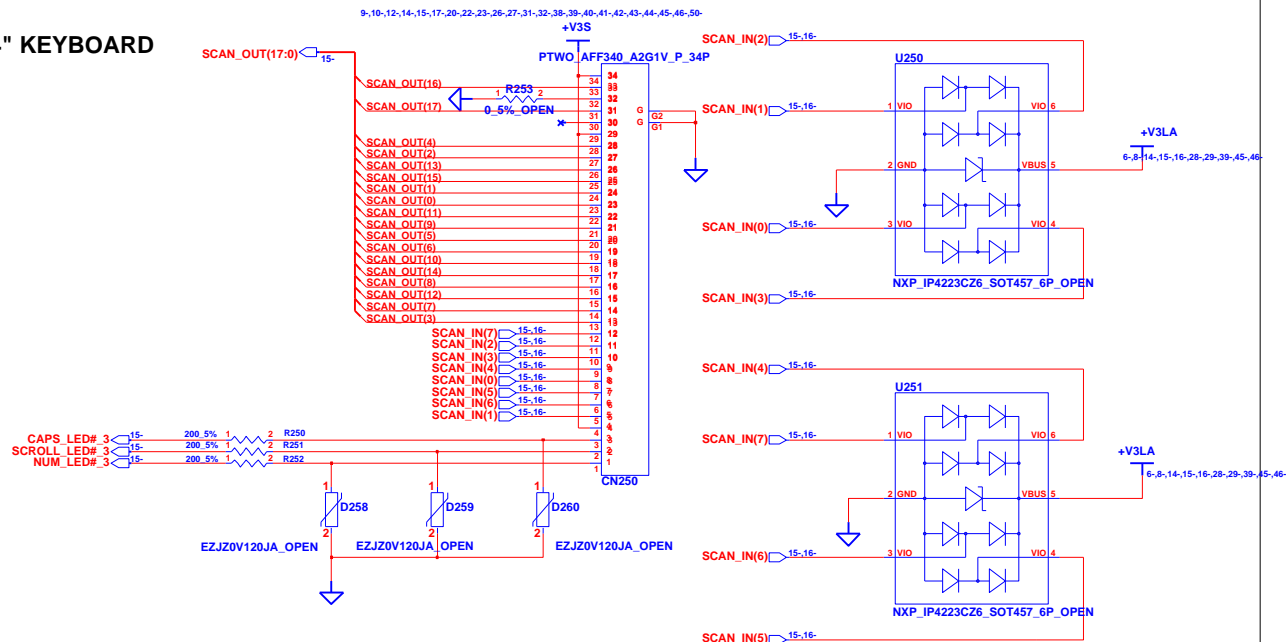


<b>INVENTEC</b>			
TITLE <i>CT10R</i>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>1310A2423901-0-MT</i>	REV <b>MAX1</b>
SHEET		13	OF 50

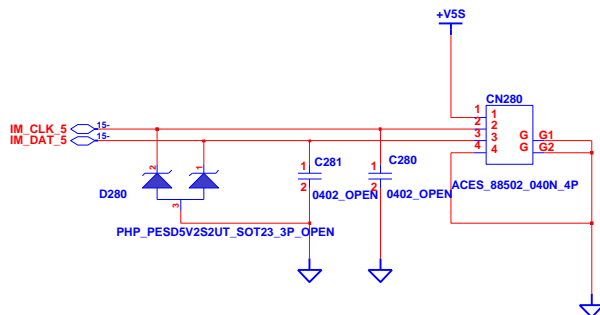




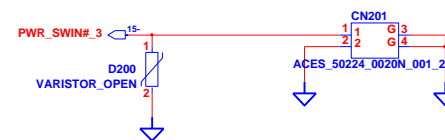
## 14" KEYBOARD



## Touchpad Connector



## POWER BOARD CONNECTOR



**INVENTEC**

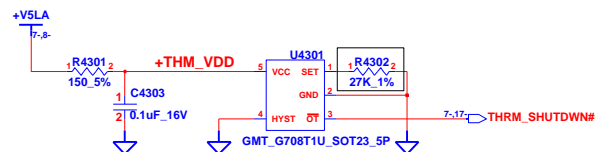
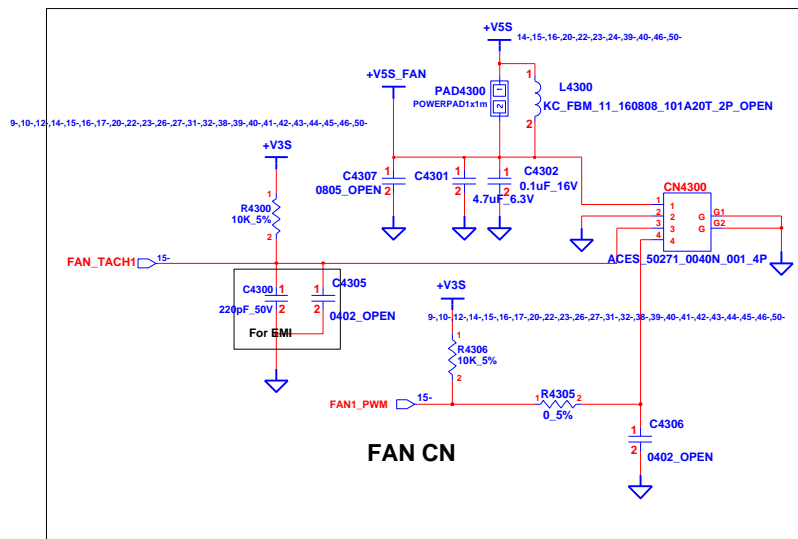
TITLE  
CT10R

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	MAX1

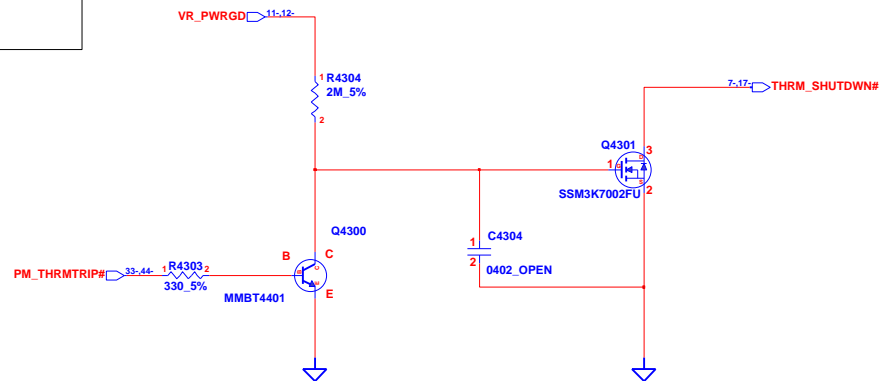
CHANGE by Yeh, Webber 8-Nov-2010

SHEET 16 OF 50

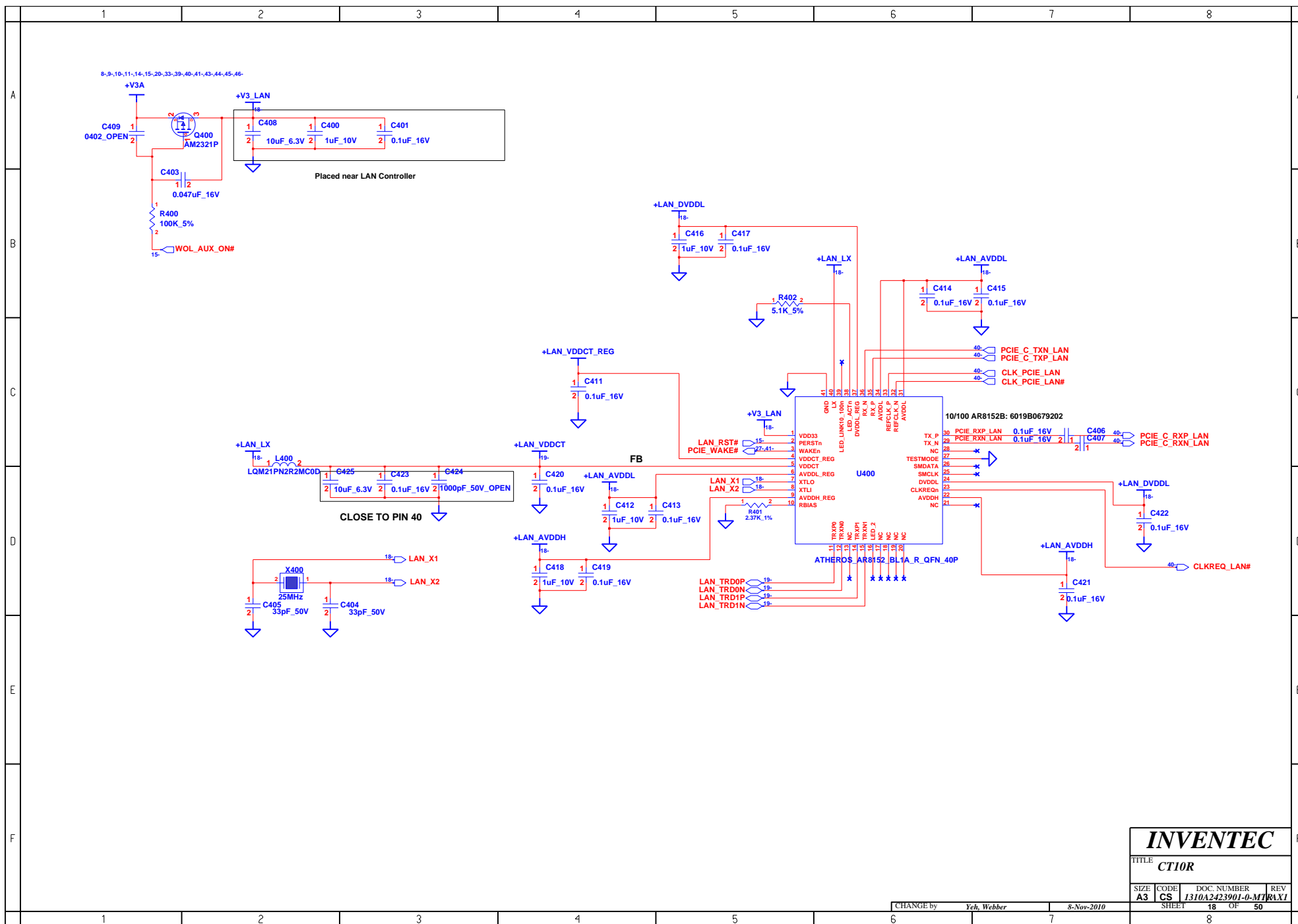




GM Thermal shutdown at 83.2°C +/-3°C from 60°C to 100°C  
 PM Thermal shutdown at 91.5°C +/-3°C from 60°C to 100°C  
 $RSET = 0.0012 * T^2 - 0.9308 * T + 96.147$   
 Hysteresis is 30C



INVENTEC			
TITLE CT10R			
SIZE A3	CODE CS	DOC. NUMBER 1310A2423901-0-MT	REV RAX1
CHANGE by Yeh, Webber		8-Nov-2010	
SHEET 17		OF 50	



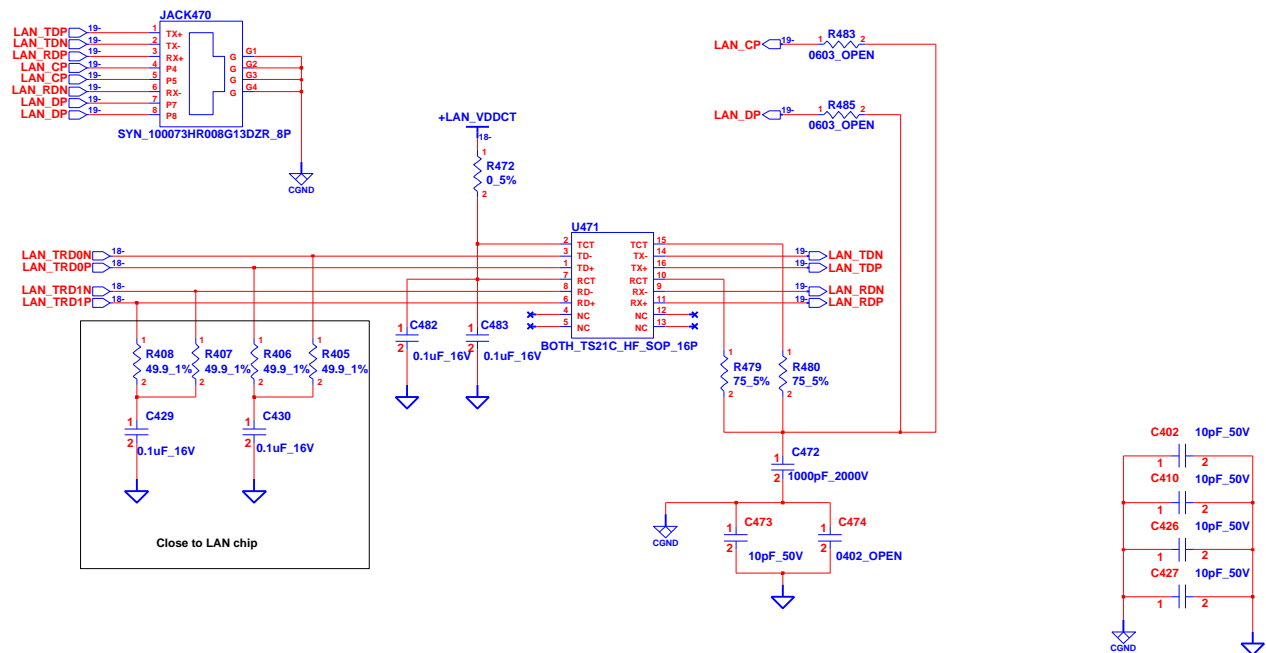
**INVENTEC**

TITLE  
CT10R

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	1

CHANGE by Yeh, Webber 8-Nov-2010

SHEET 18 OF 50



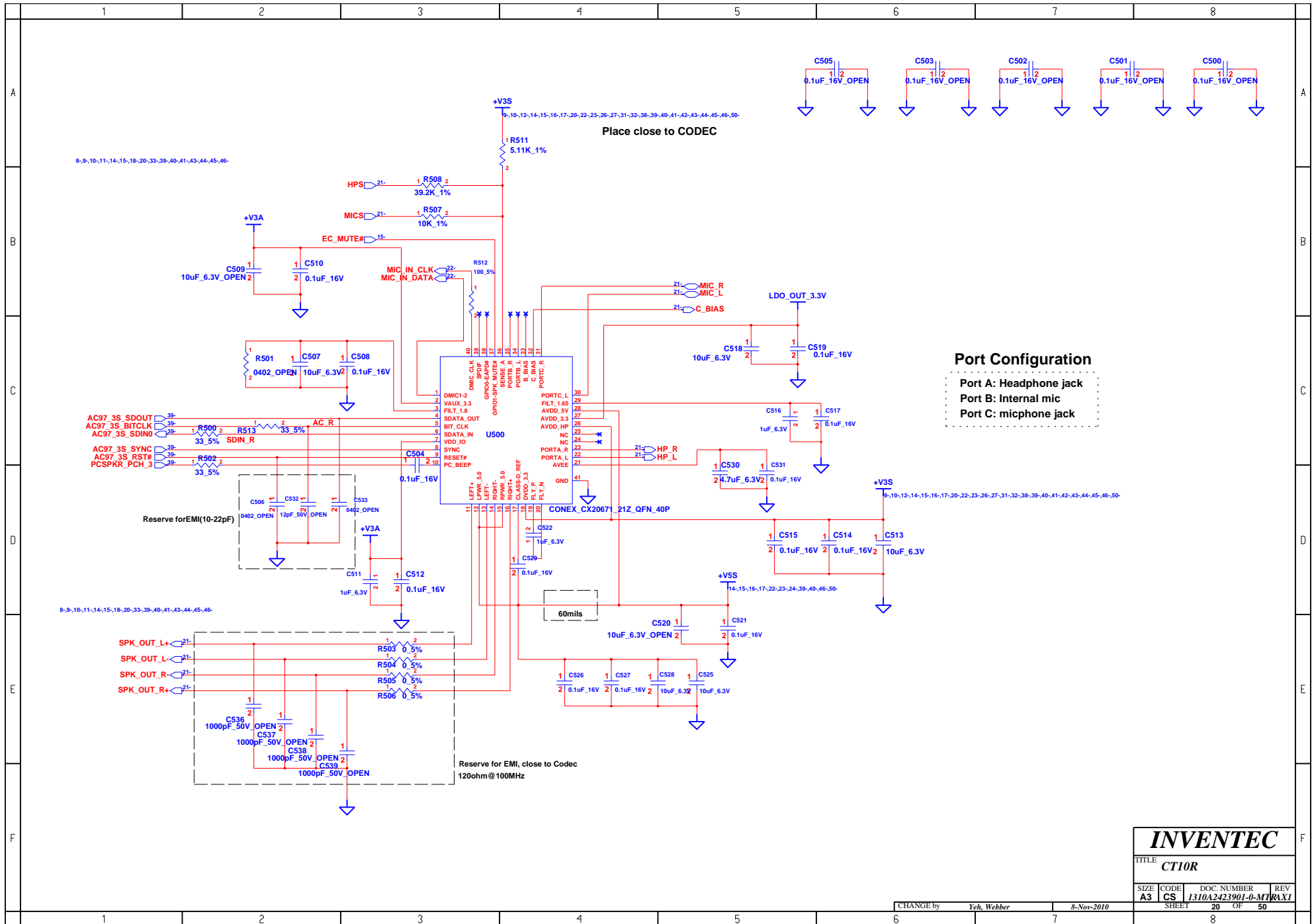
**INVENTEC**

TITLE  
**CT10R**

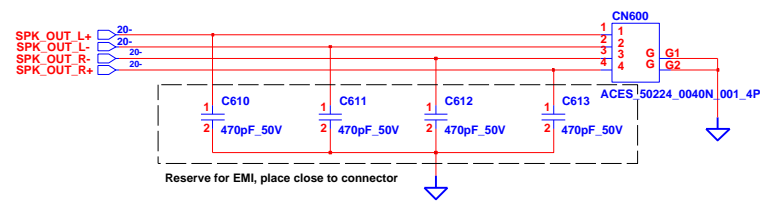
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	19

CHANGE by Yeh, Webber 8-Nov-2010

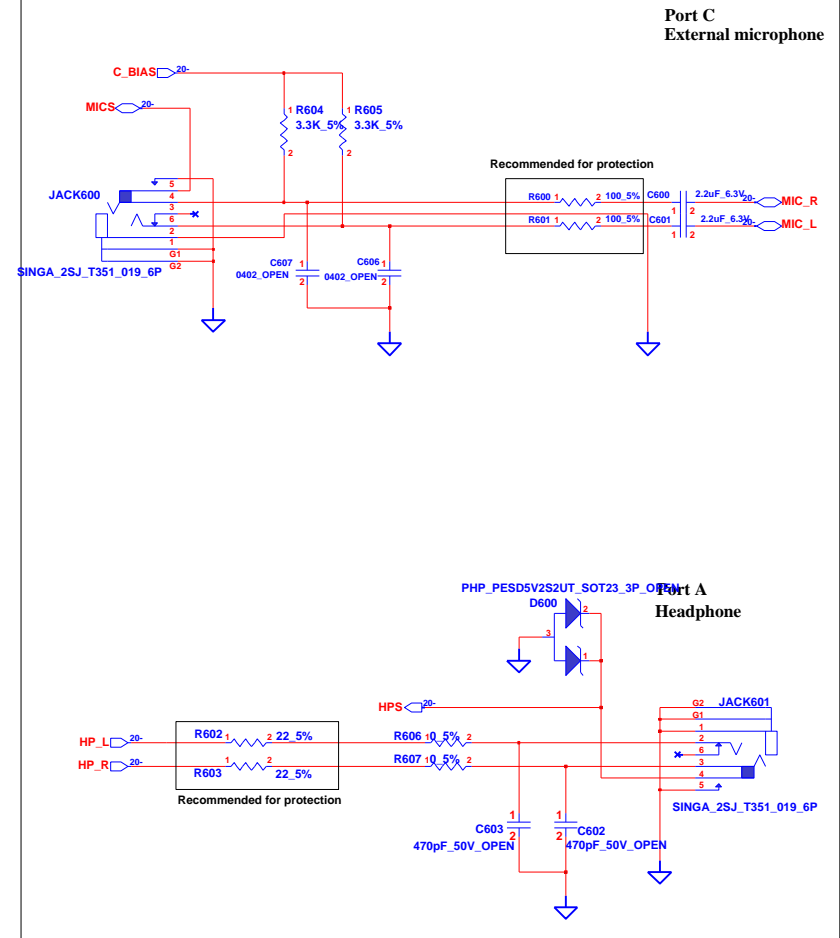
SHEET 19 OF 50



## INTERNAL SPEAKERS



## AUDIO JACKS

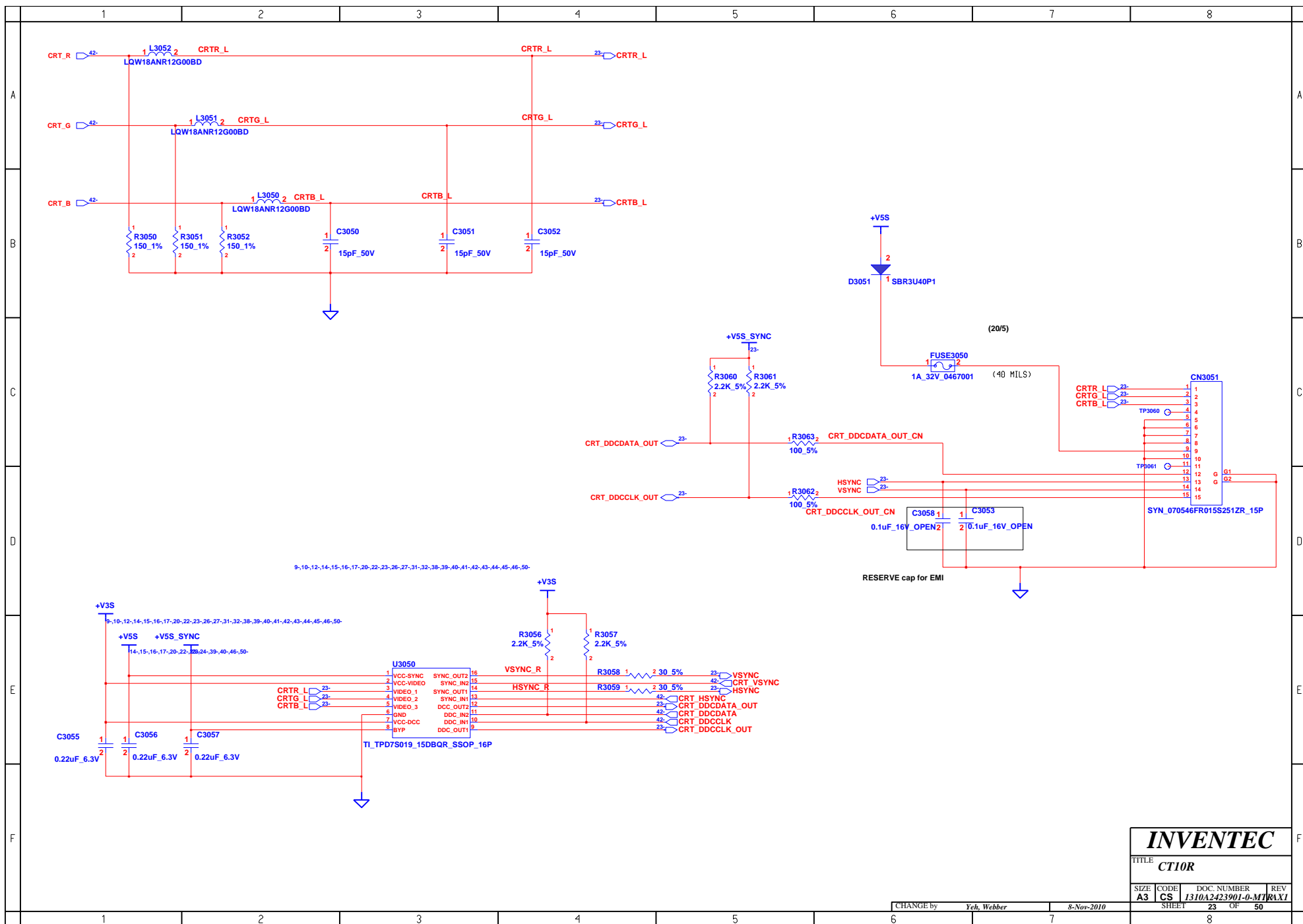


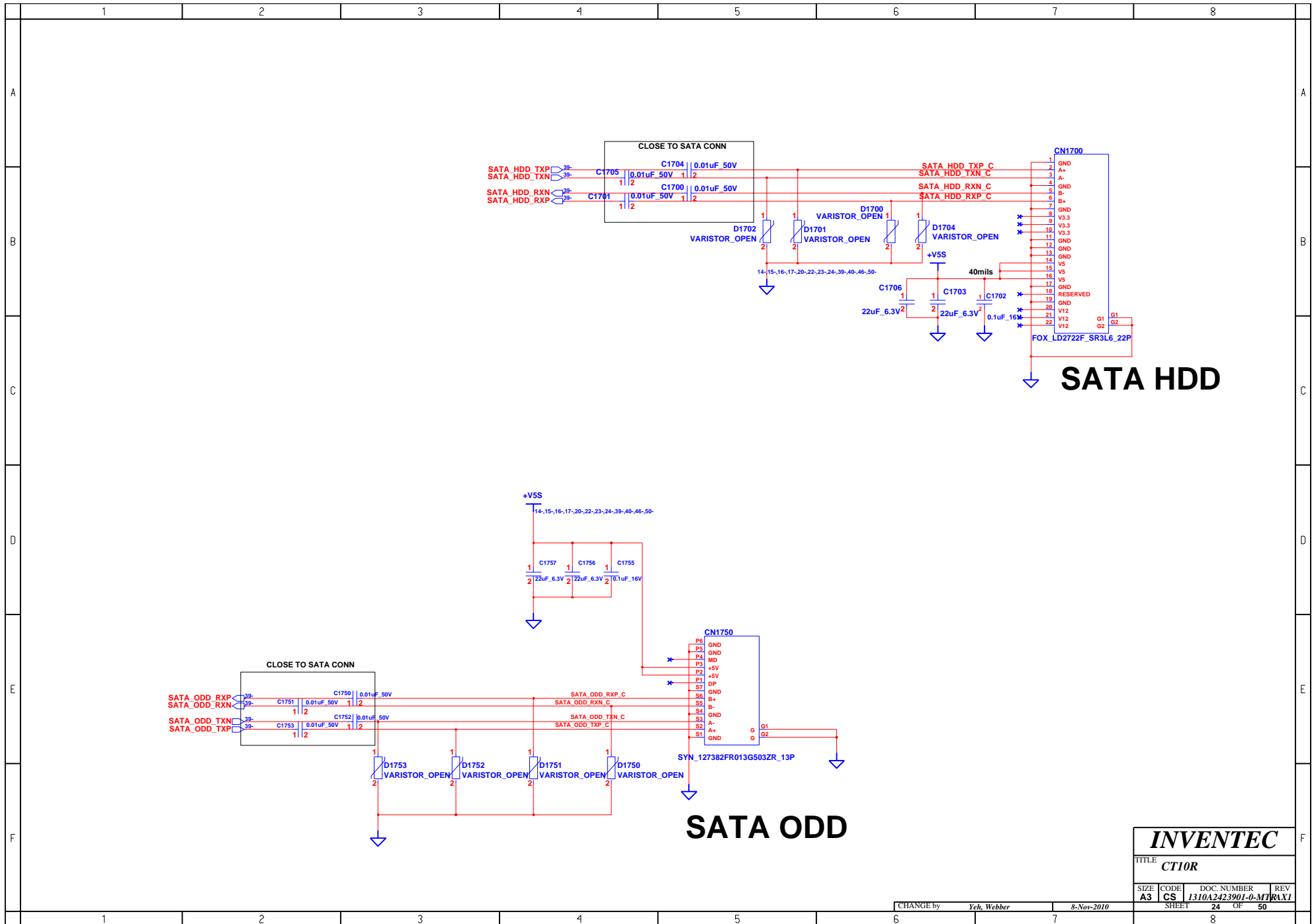
**INVENTEC**

TITLE CT10R			
SIZE A3	CODE CS	DOC. NUMBER 1310A2423901-0-MT	REV RAXI
SHEET 21		OF 50	

CHANGE by Yeh, Webber 8-Nov-2010

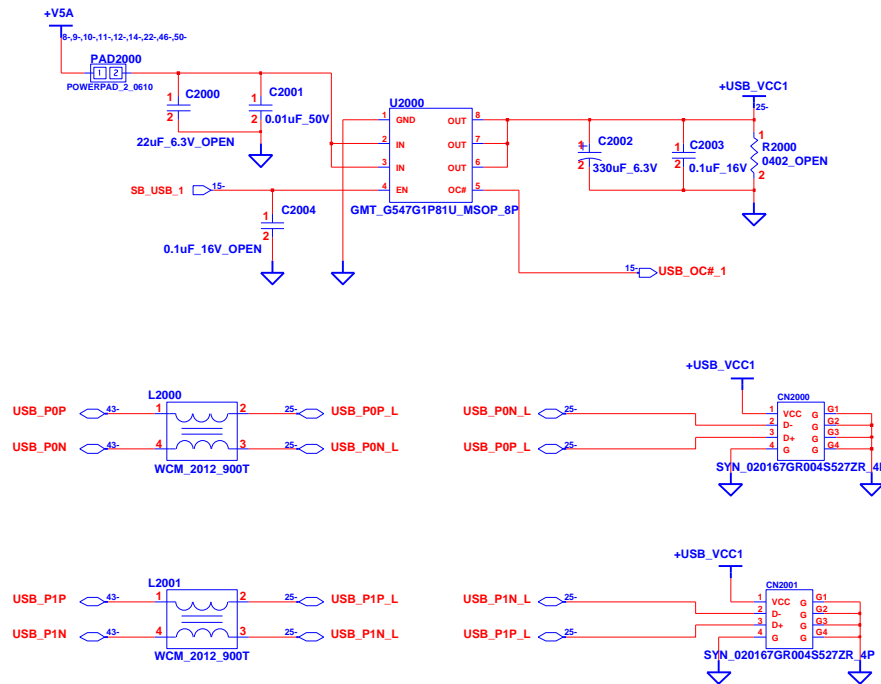








# USB 2.0

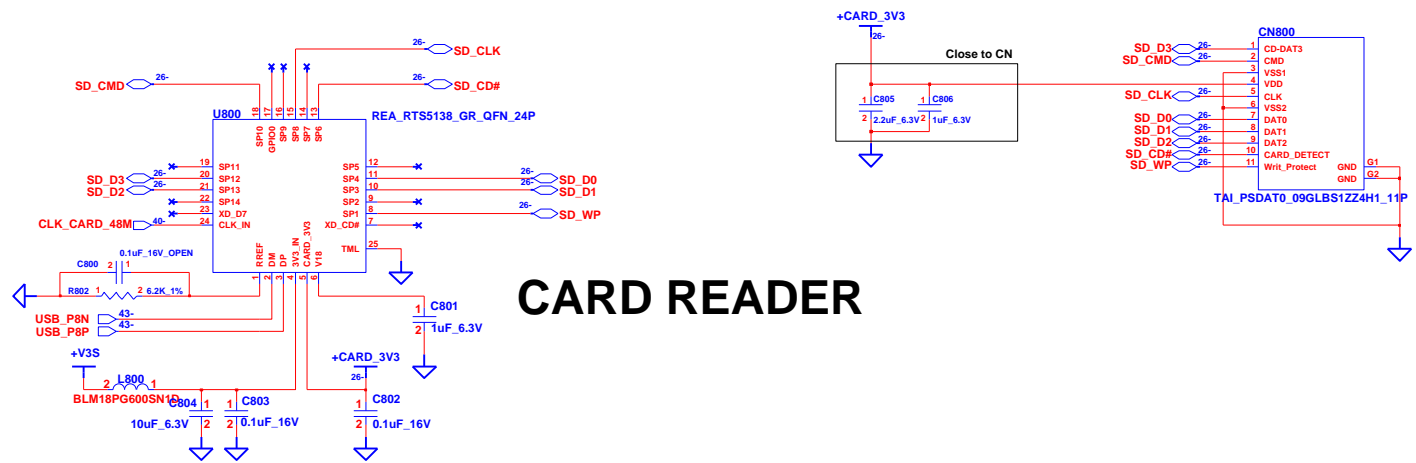


**INVENTEC**

TITLE  
**CT10R**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A2423901-0-MT</b>	REV <b>MAX1</b>
SHEET <b>25</b>		OF <b>50</b>	

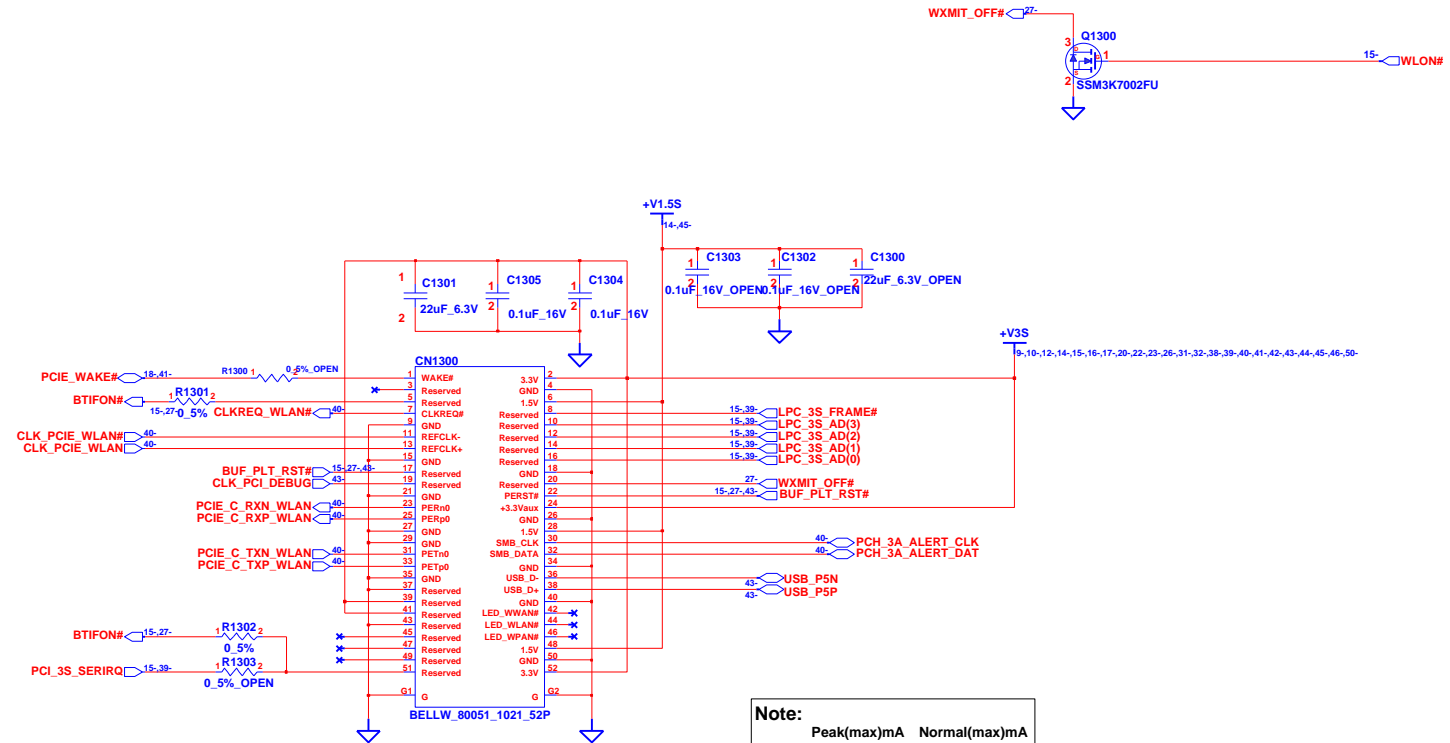
CHANGE by **Yeh, Webber** 8-Nov-2010



# CARD READER

INVENTEC			
TITLE CT10R			
SIZE A3	CODE CS	DOC. NUMBER 1310A2423901-0-MT	REV MAX1
CHANGE by Yeh, Webber		8-Nov-2010	
SHEET 26		OF 50	

# Wireless & Debug card



MINI CARD 1

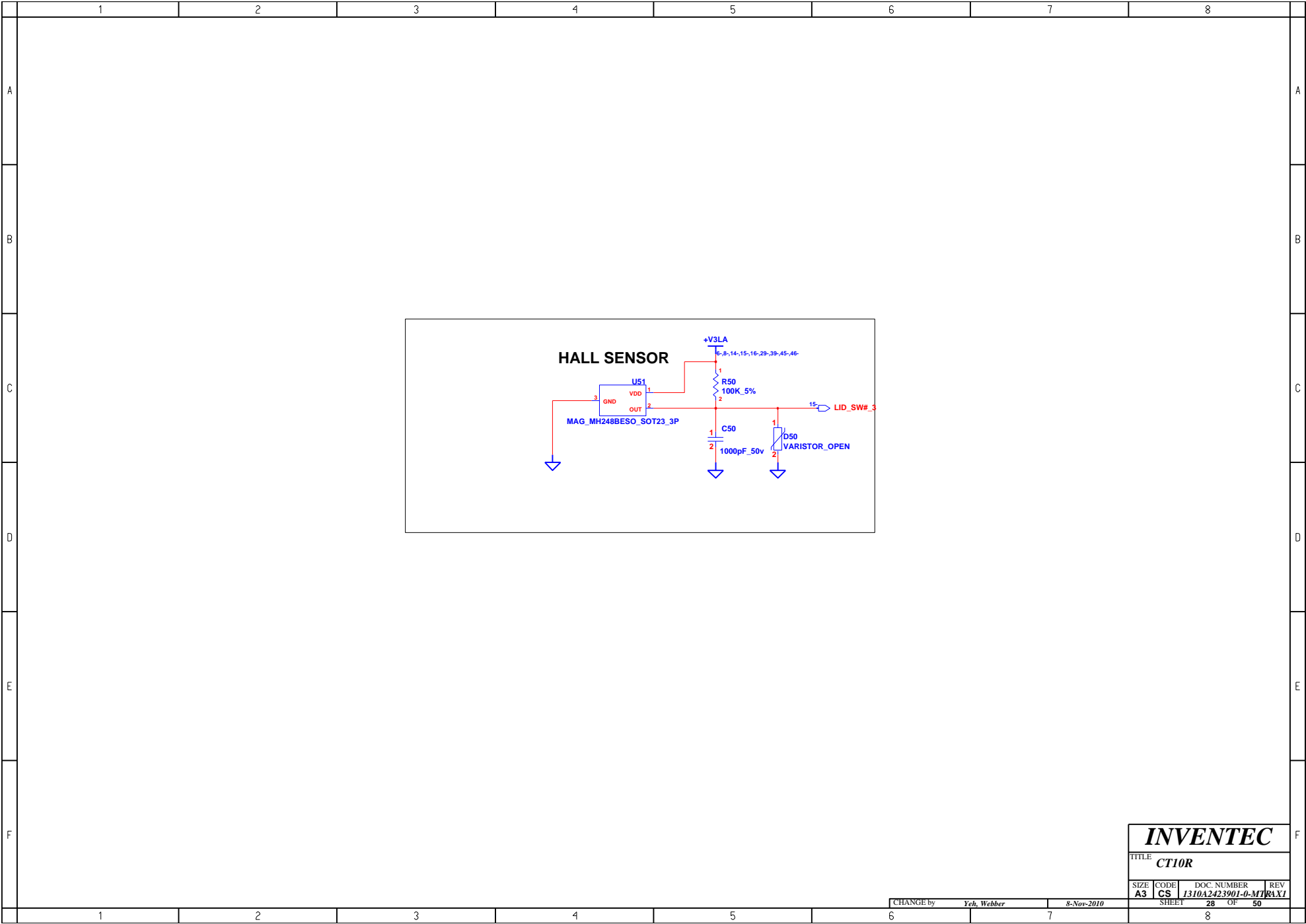
**INVENTEC**

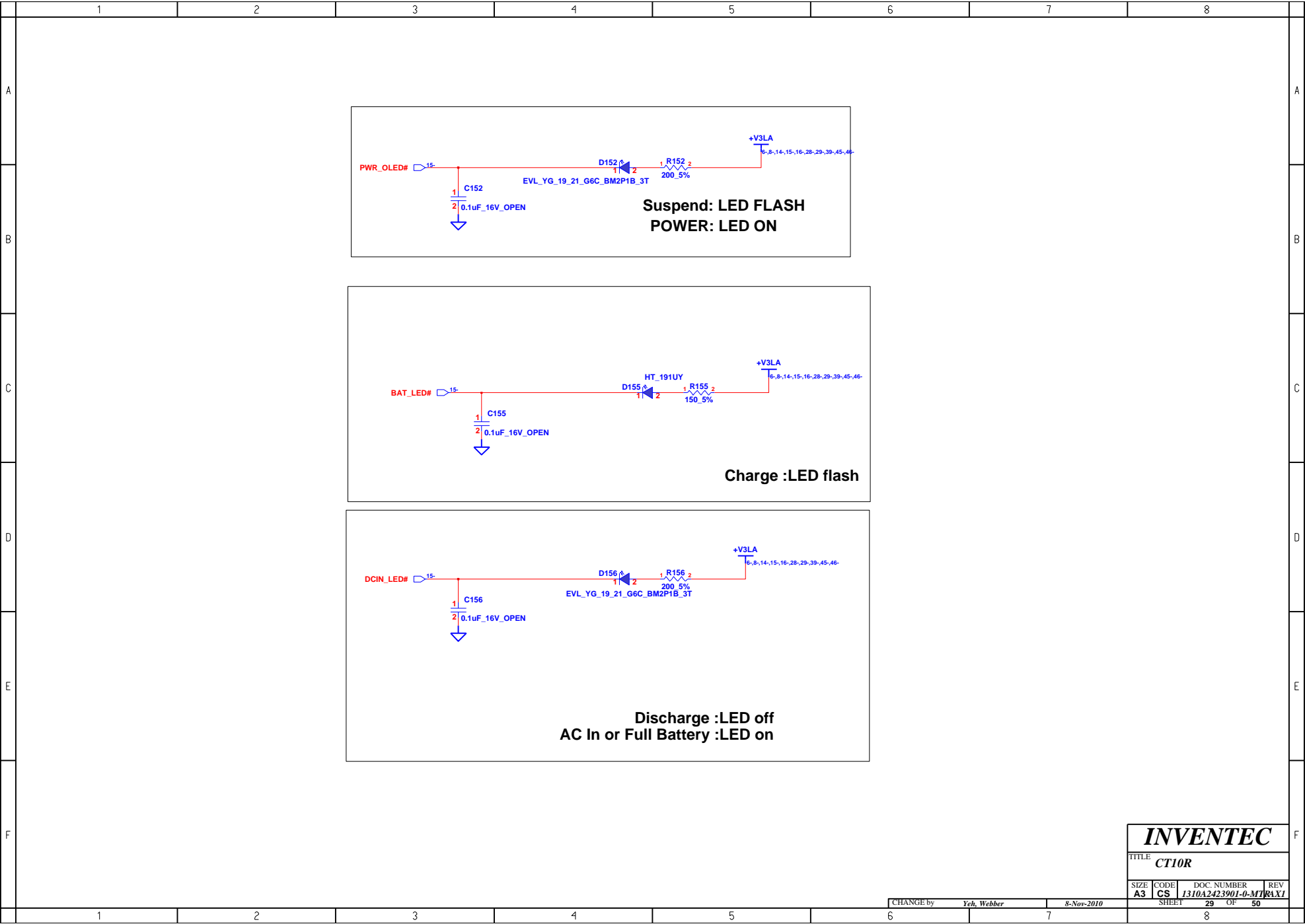
TITLE  
CT10R

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	MAX1

CHANGE by Yeh, Webber 8-Nov-2010

SHEET 27 OF 50





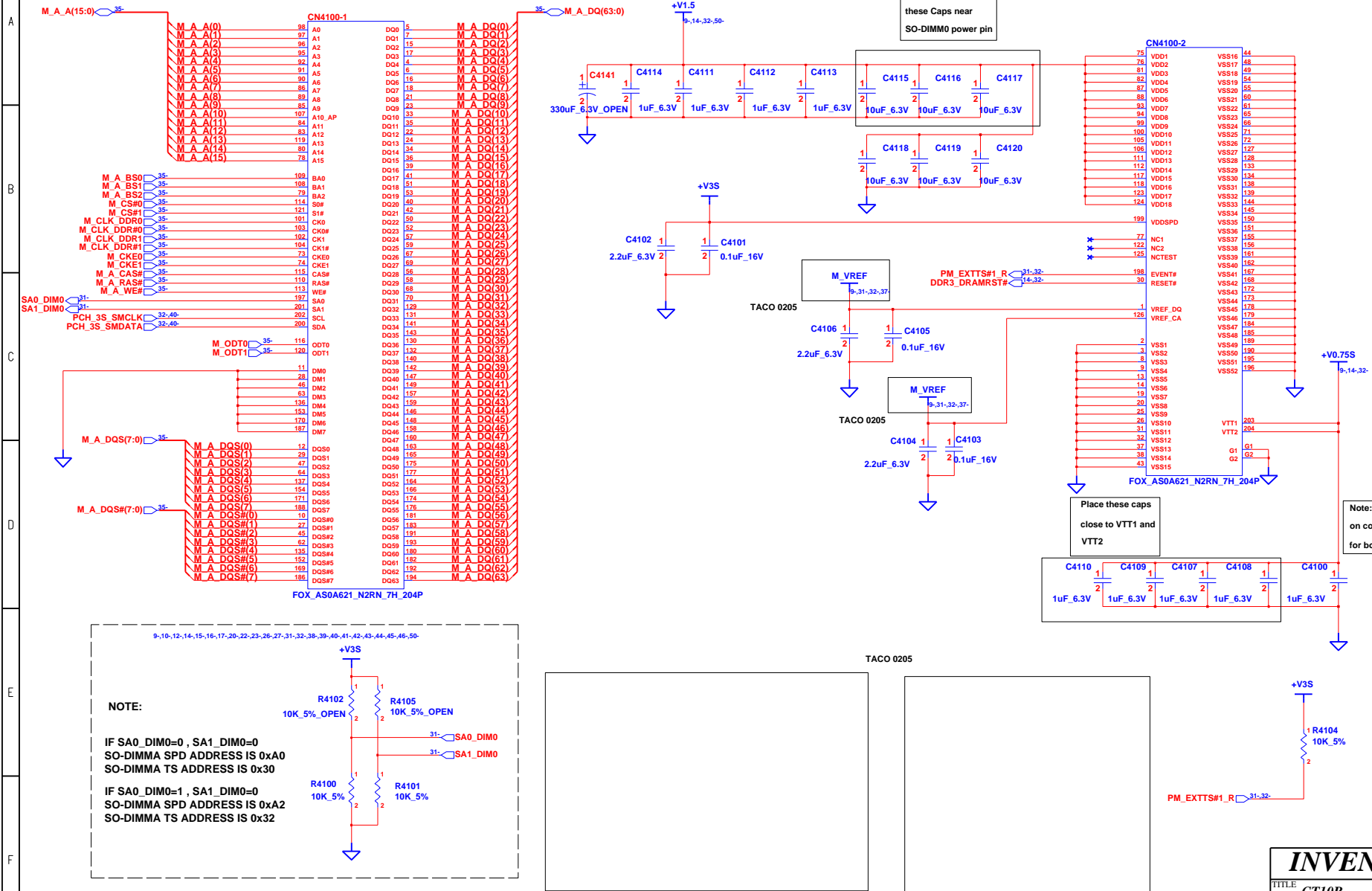
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>Yeh, Webber</i>		8-Nov-2010	
1	2	3	4	5	6	7	8		

<b>INVENTEC</b>			
TITLE <i>CT10R CLKGEN</i>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>1310A2423901-0-MT</i>	REV <b>MAX1</b>
SHEET <b>30</b>		OF <b>50</b>	

# CHA

9,10,12,14,15,16,17,20,22,23,26,27,31,32,38,39,40,41,42,43,44,45,46,50-

Layout NOTE: Place these Caps near SO-DIMM0 power pin



9,10,12,14,15,16,17,20,22,23,26,27,31,32,38,39,40,41,42,43,44,45,46,50-

CHANGE by Yeh, Webber

8-Nov-2010

**INVENTEC**

TITLE CT10R

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	RXX1
SHEET 31		OF 50	

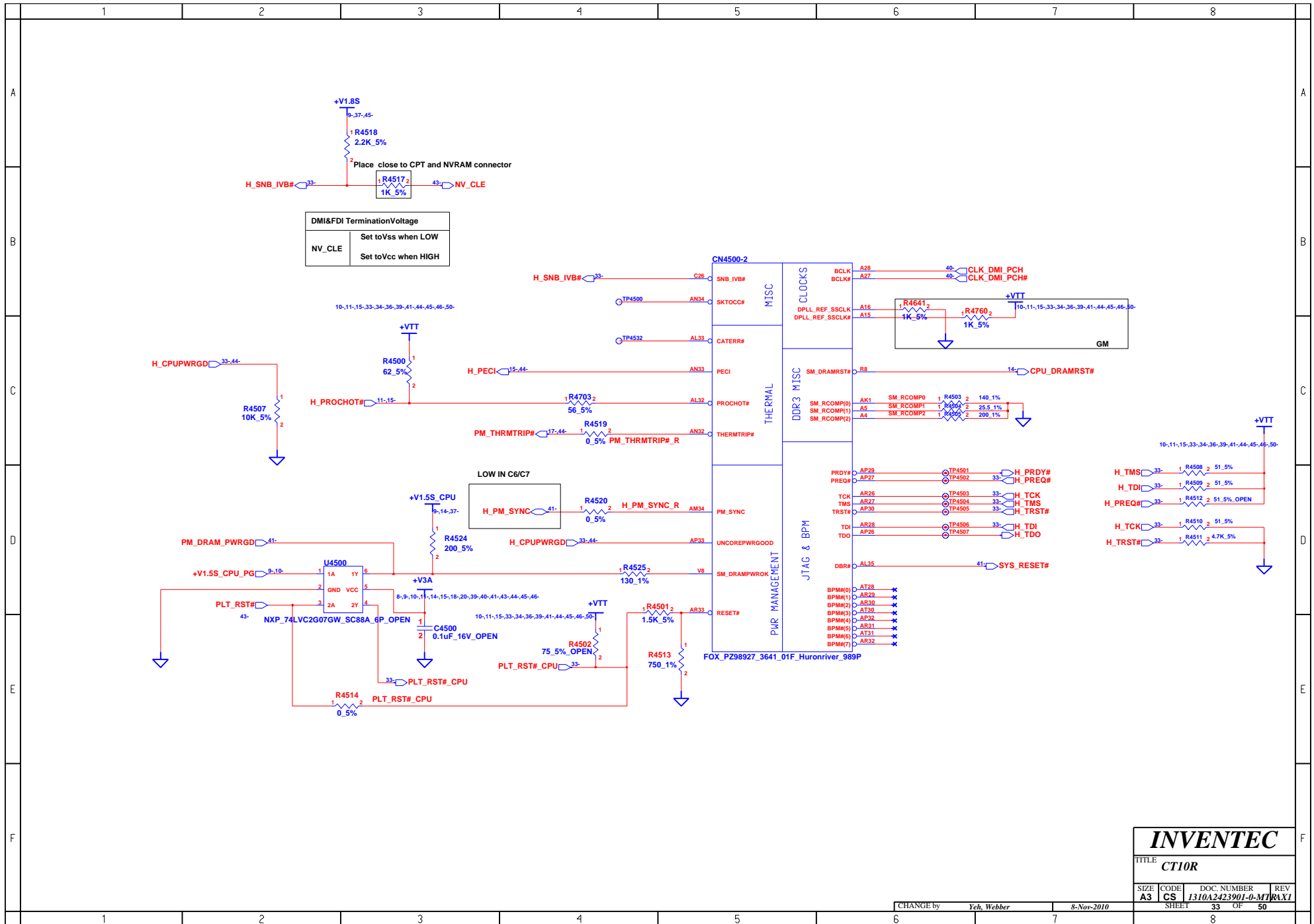
[illegible]

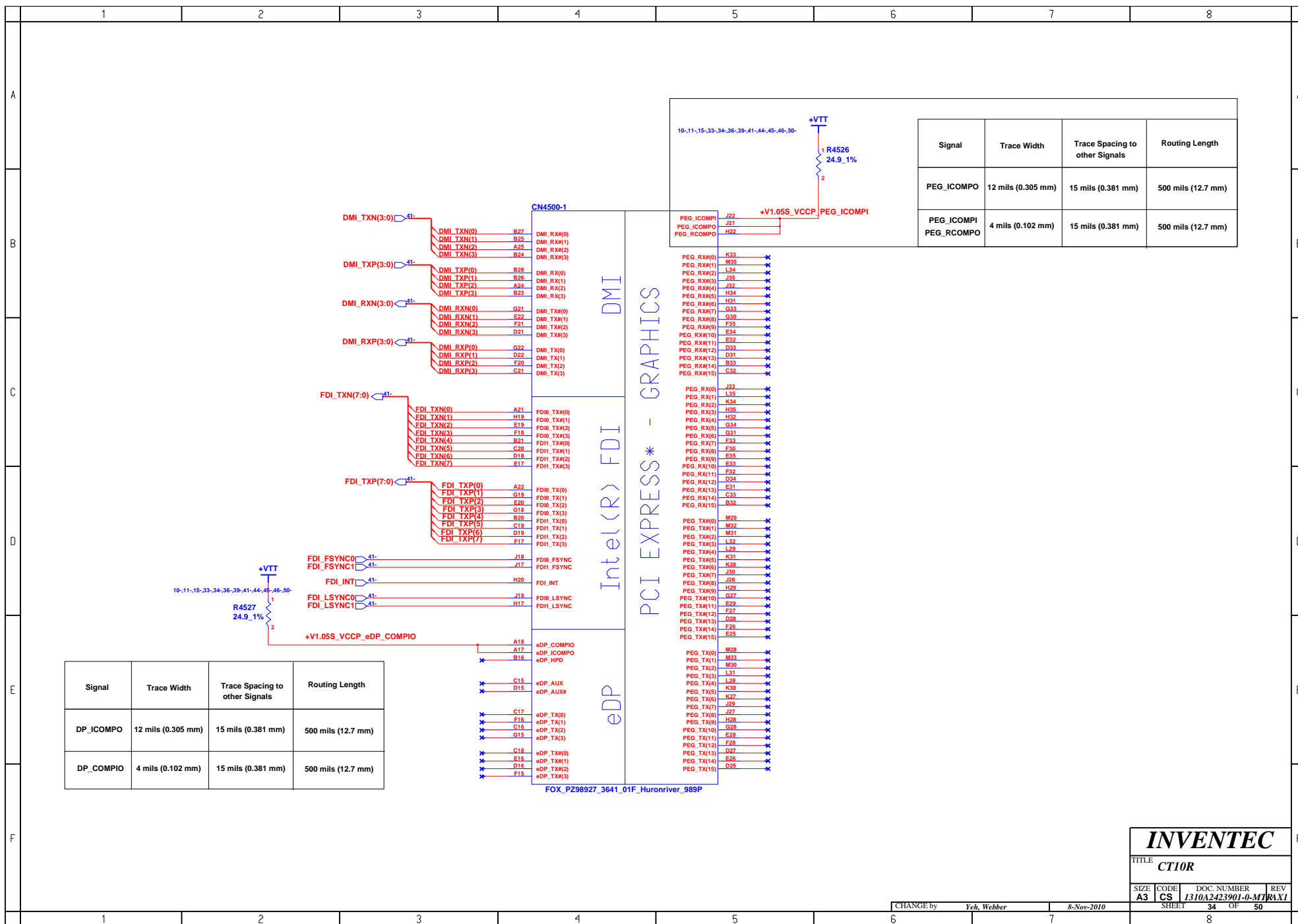
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A2423901-0-MTRAX1</b>	REV
SHEET		32	OF 50

CHANGE by	<i>Yeh, Webber</i>	<i>8-Nov-2010</i>
-----------	--------------------	-------------------

8



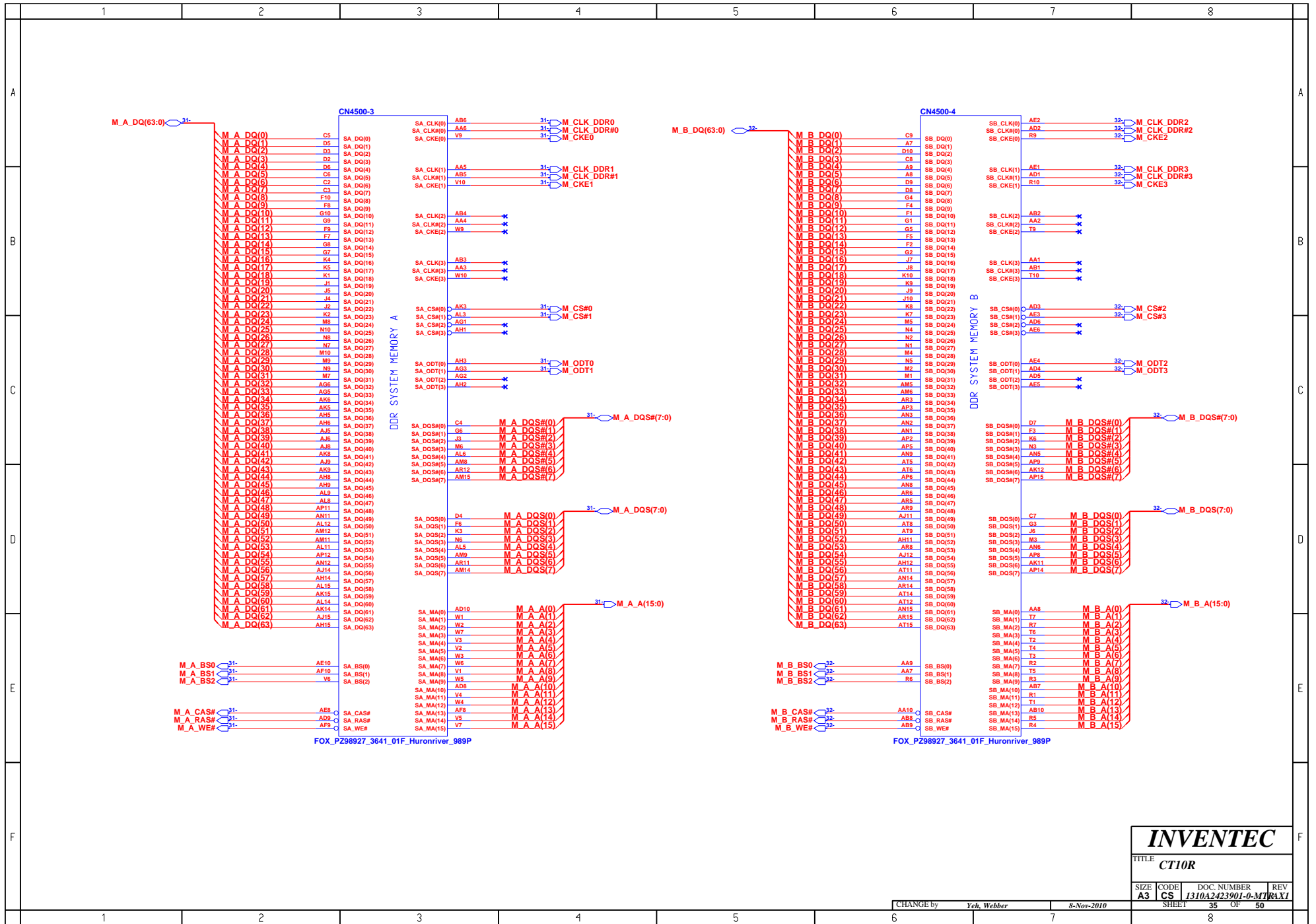




**INVENTEC**

TITLE  
CT10R

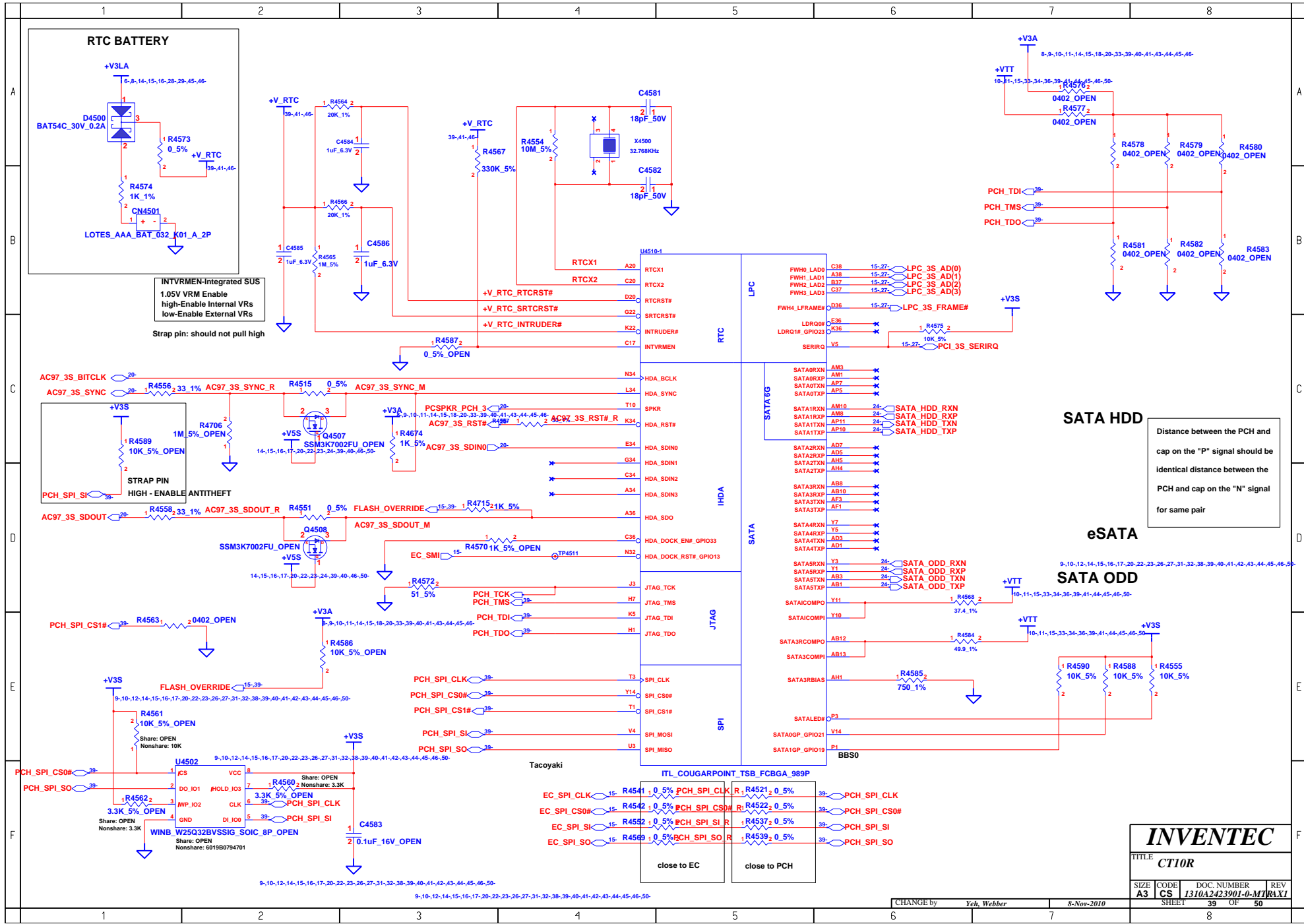
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	RXX1





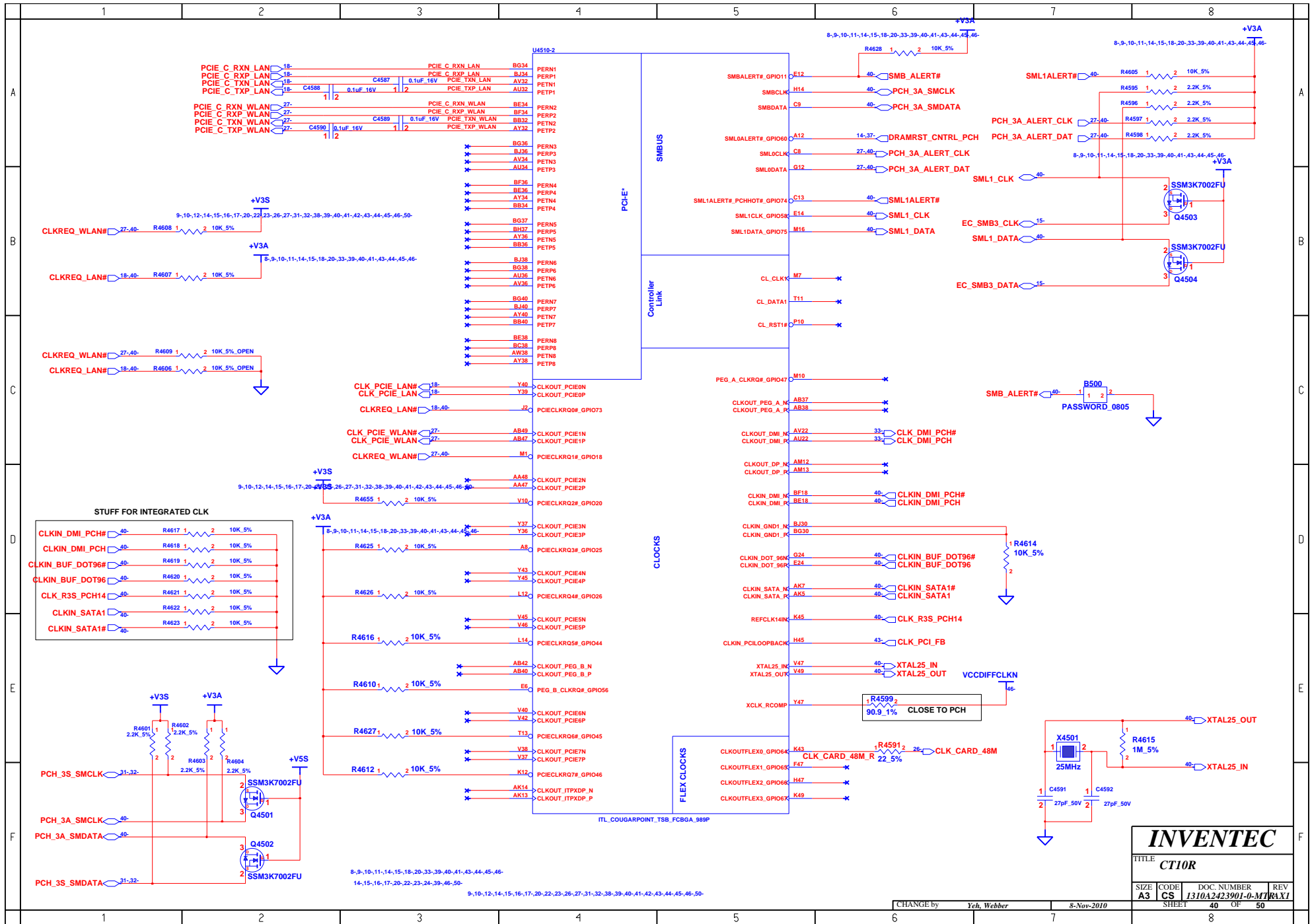




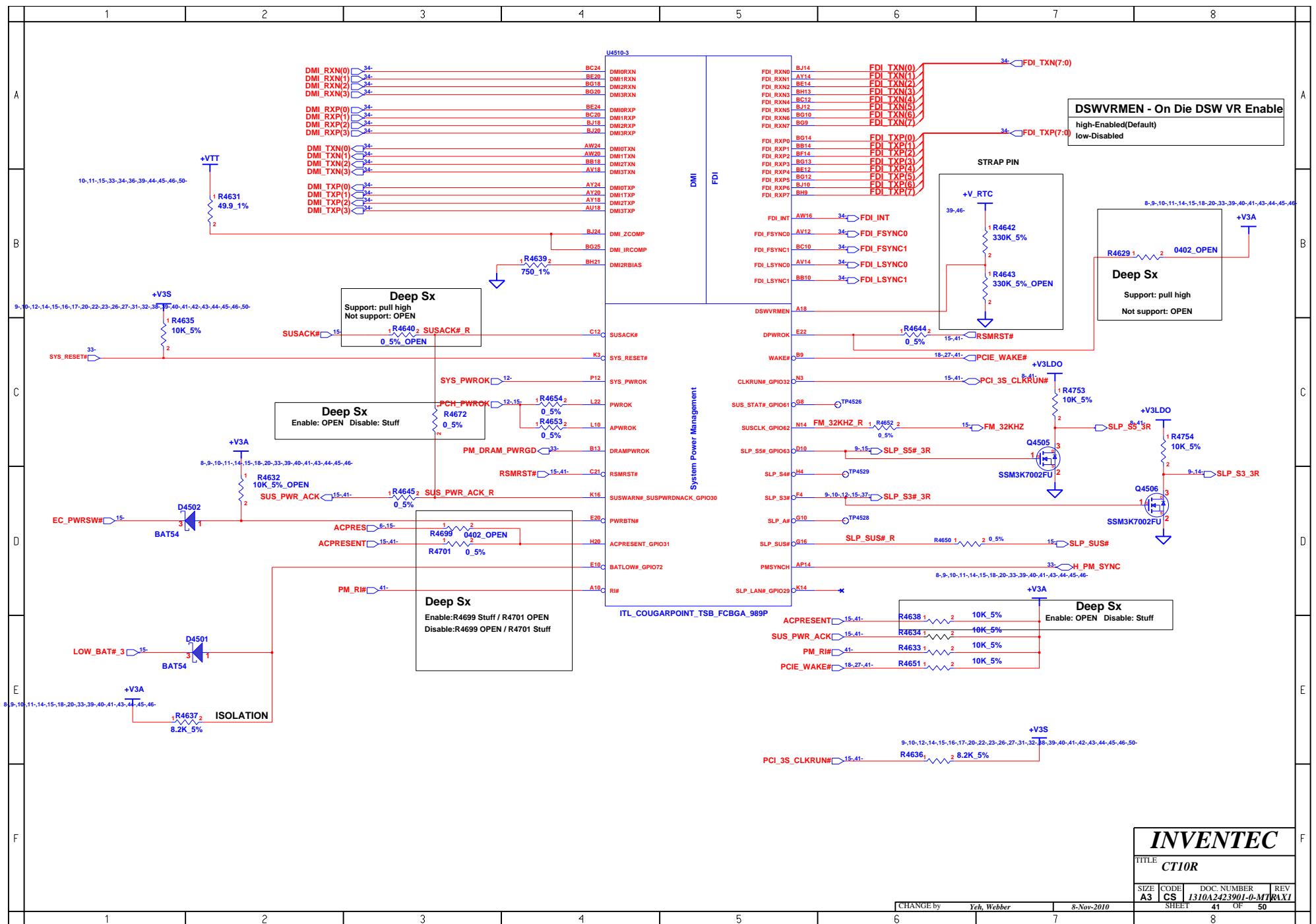


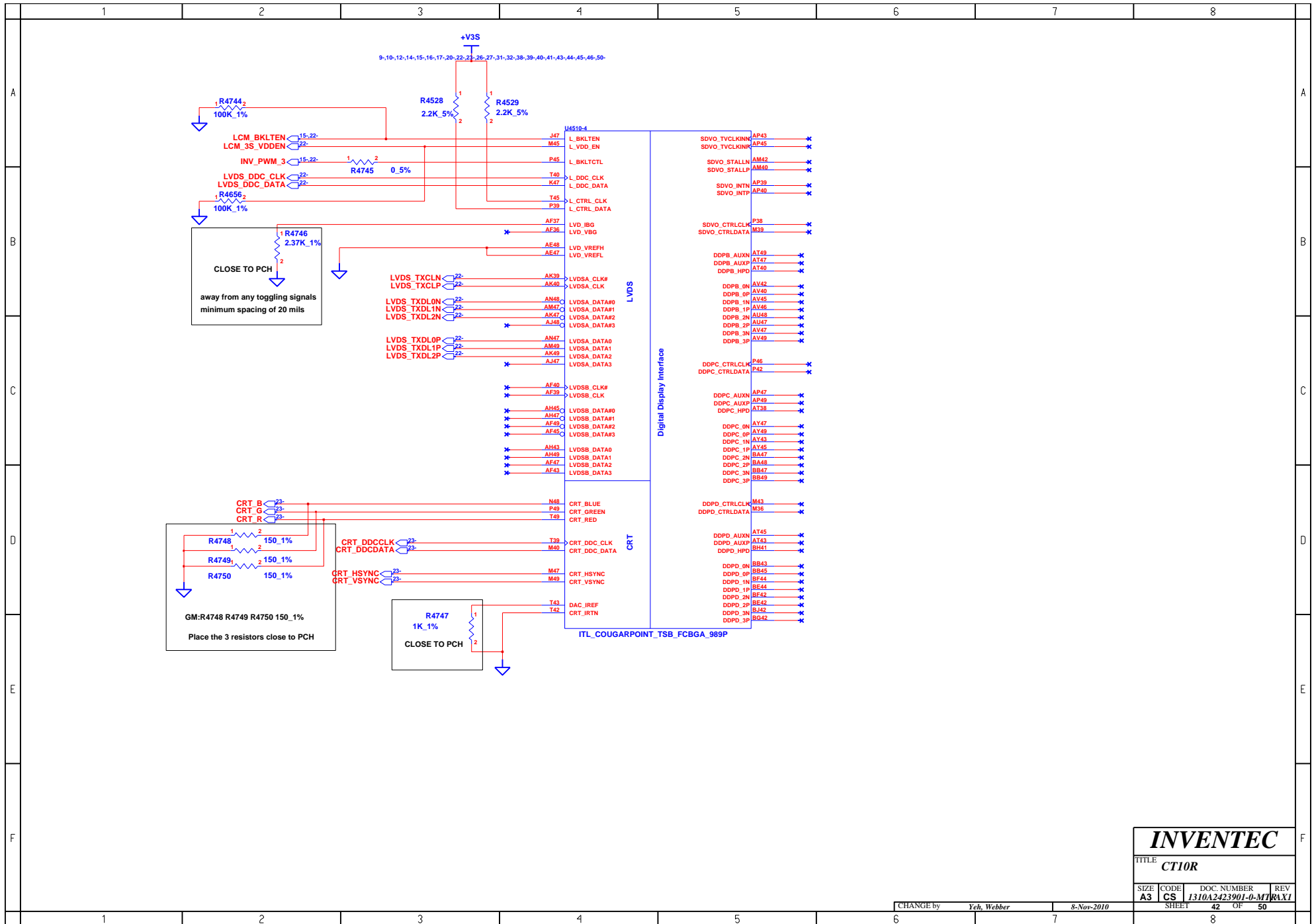
INVENTEC				
TITLE CT10R				
SIZE A3	CODE CS	DOC. NUMBER 1310A2423901-0-MTR	REV R1X1	
SHEET 39		OF 50		

CHANGE by Yeh, Webber 8-Nov-2010



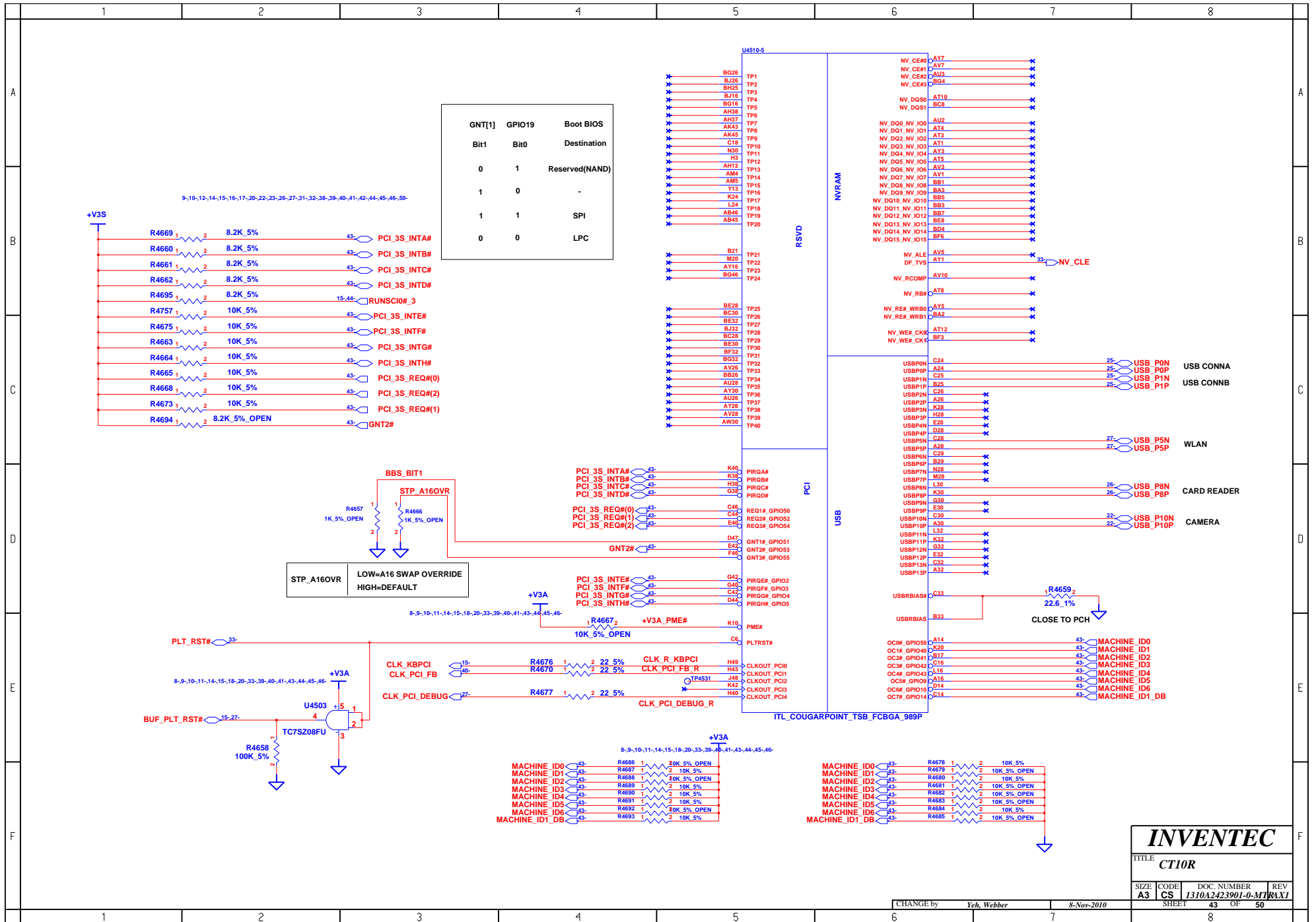




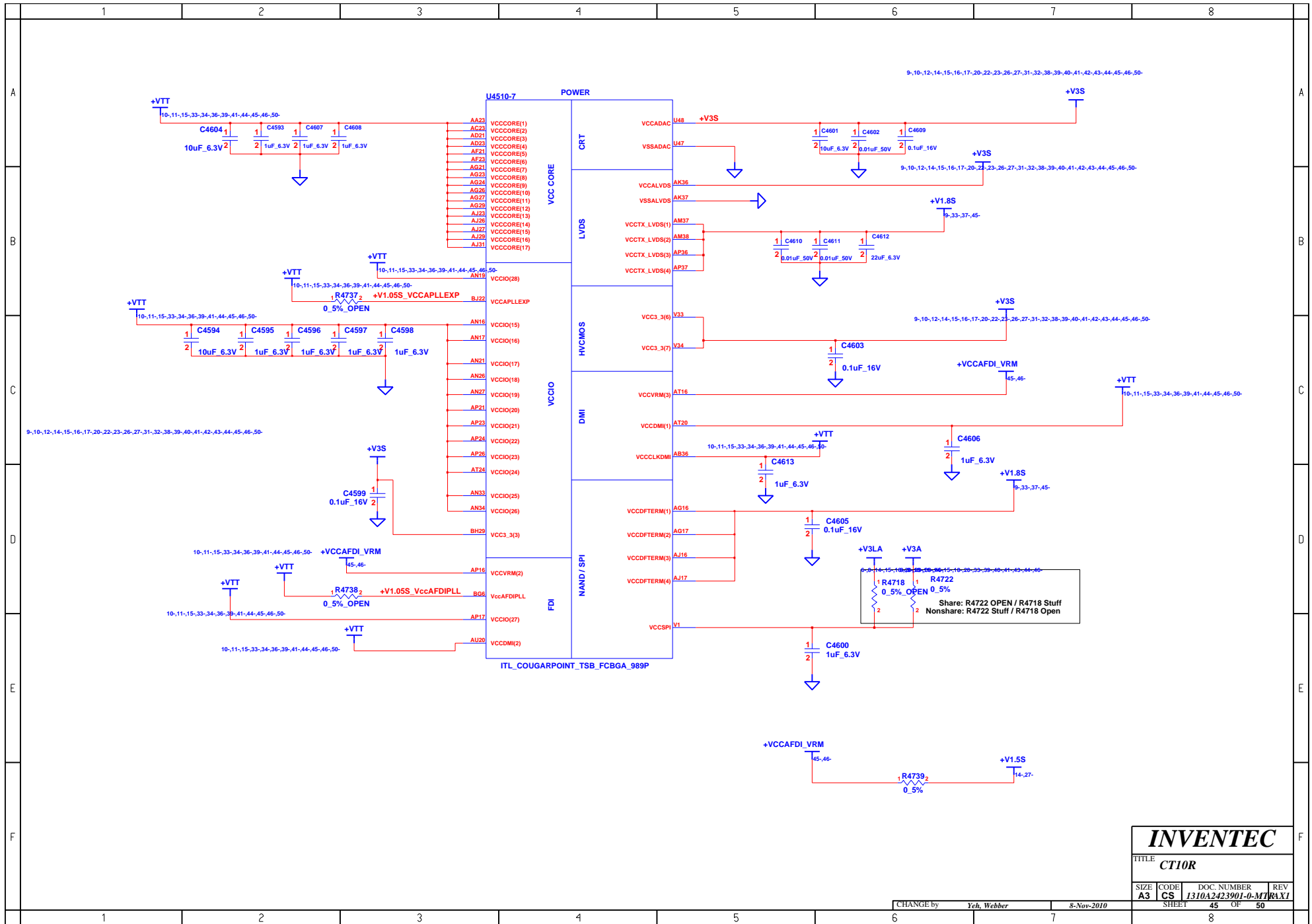


INVENTEC			
TITLE CT10R			
SIZE A3	CODE CS	DOC. NUMBER 1310A2423901-0-MT	REV MAX1
SHEET 42		OF 50	

CHANGE by Yeh, Webber 8-Nov-2010







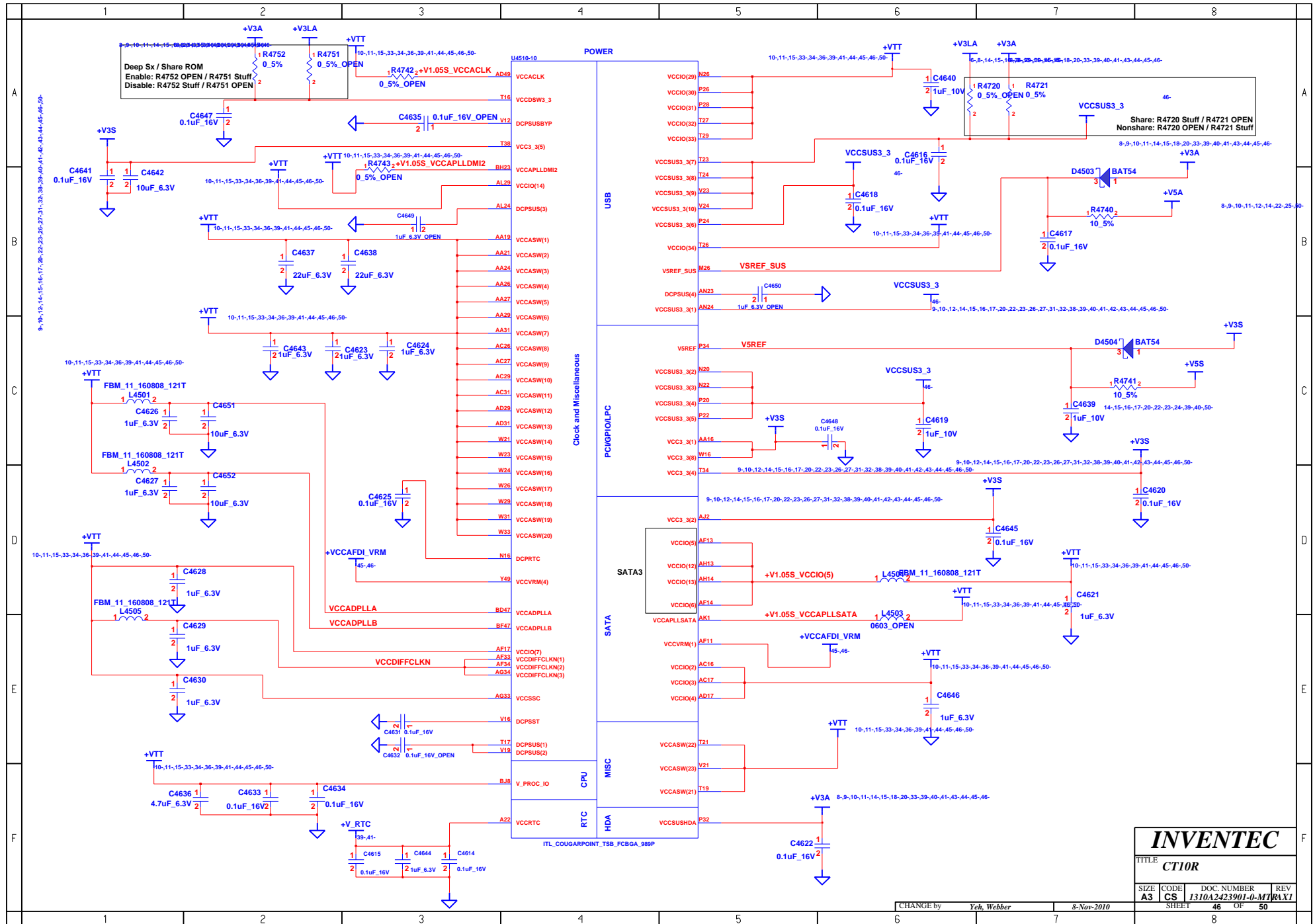
**INVENTEC**

TITLE  
**CT10R**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	RXX1
SHEET		45	OF 50

CHANGE by Yeh, Webber 8-Nov-2010

8



**INVENTEC**

TITLE  
CT10R

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	R1X1

CHANGE by Yeh, Webber

8-Nov-2010

SHEET 46 OF 50

**U4510-8**

VSS(0)

AA17 VSS(1)

AA2 VSS(2)

AA3 VSS(3)

AA33 VSS(4)

AA34 VSS(5)

AB11 VSS(6)

AB14 VSS(7)

AB39 VSS(8)

AB4 VSS(9)

AB43 VSS(10)

AB5 VSS(11)

AB7 VSS(12)

AC19 VSS(13)

AC2 VSS(14)

AC21 VSS(15)

AC24 VSS(16)

AC33 VSS(17)

AC34 VSS(18)

AC48 VSS(19)

AD10 VSS(20)

AD11 VSS(21)

AD12 VSS(22)

AD13 VSS(23)

AD19 VSS(24)

AD24 VSS(25)

AD26 VSS(26)

AD33 VSS(27)

AD34 VSS(28)

AD36 VSS(29)

AD37 VSS(30)

AD38 VSS(31)

AD39 VSS(32)

AD4 VSS(33)

AD40 VSS(34)

AD42 VSS(35)

AD43 VSS(36)

AD45 VSS(37)

AD46 VSS(38)

AD46 VSS(39)

AD8 VSS(40)

AE3 VSS(41)

AF10 VSS(42)

AF12 VSS(43)

AF16 VSS(44)

AF18 VSS(45)

AF16 VSS(46)

AF19 VSS(47)

AF24 VSS(48)

AF26 VSS(49)

AF27 VSS(50)

AF29 VSS(51)

AF31 VSS(52)

AF38 VSS(53)

AF4 VSS(54)

AF42 VSS(55)

AF46 VSS(56)

AF5 VSS(57)

AF5 VSS(58)

AF7 VSS(59)

AF8 VSS(60)

AG2 VSS(61)

AG2 VSS(62)

AG31 VSS(63)

AG48 VSS(64)

AG11 VSS(65)

AG3 VSS(66)

AG36 VSS(67)

AG39 VSS(68)

AG40 VSS(69)

AG42 VSS(70)

AG46 VSS(71)

AG7 VSS(72)

AJ19 VSS(73)

AJ21 VSS(74)

AJ24 VSS(75)

AJ3 VSS(76)

AJ34 VSS(77)

AK12 VSS(78)

AK3 VSS(79)

VSS(80)

VSS(81)

VSS(82)

VSS(83)

VSS(84)

VSS(85)

VSS(86)

VSS(87)

VSS(88)

VSS(89)

VSS(90)

VSS(91)

VSS(92)

VSS(93)

VSS(94)

VSS(95)

VSS(96)

VSS(97)

VSS(98)

VSS(99)

VSS(100)

VSS(101)

VSS(102)

VSS(103)

VSS(104)

VSS(105)

VSS(106)

VSS(107)

VSS(108)

VSS(109)

VSS(110)

VSS(111)

VSS(112)

VSS(113)

VSS(114)

VSS(115)

VSS(116)

VSS(117)

VSS(118)

VSS(119)

VSS(120)

VSS(121)

VSS(122)

VSS(123)

VSS(124)

VSS(125)

VSS(126)

VSS(127)

VSS(128)

VSS(129)

VSS(130)

VSS(131)

VSS(132)

VSS(133)

VSS(134)

VSS(135)

VSS(136)

VSS(137)

VSS(138)

VSS(139)

VSS(140)

VSS(141)

VSS(142)

VSS(143)

VSS(144)

VSS(145)

VSS(146)

VSS(147)

VSS(148)

VSS(149)

VSS(150)

VSS(151)

VSS(152)

VSS(153)

VSS(154)

VSS(155)

VSS(156)

VSS(157)

VSS(158)

VSS(159)

VSS(160)

VSS(161)

VSS(162)

VSS(163)

VSS(164)

VSS(165)

VSS(166)

VSS(167)

VSS(168)

VSS(169)

VSS(170)

VSS(171)

VSS(172)

VSS(173)

VSS(174)

VSS(175)

VSS(176)

VSS(177)

VSS(178)

VSS(179)

VSS(180)

VSS(181)

VSS(182)

VSS(183)

VSS(184)

VSS(185)

VSS(186)

VSS(187)

VSS(188)

VSS(189)

VSS(190)

VSS(191)

VSS(192)

VSS(193)

VSS(194)

VSS(195)

VSS(196)

VSS(197)

VSS(198)

VSS(199)

VSS(200)

VSS(201)

VSS(202)

VSS(203)

VSS(204)

VSS(205)

VSS(206)

VSS(207)

VSS(208)

VSS(209)

VSS(210)

VSS(211)

VSS(212)

VSS(213)

VSS(214)

VSS(215)

VSS(216)

VSS(217)

VSS(218)

VSS(219)

VSS(220)

VSS(221)

VSS(222)

VSS(223)

VSS(224)

VSS(225)

VSS(226)

VSS(227)

VSS(228)

VSS(229)

VSS(230)

VSS(231)

VSS(232)

VSS(233)

VSS(234)

VSS(235)

VSS(236)

VSS(237)

VSS(238)

VSS(239)

VSS(240)

VSS(241)

VSS(242)

VSS(243)

VSS(244)

VSS(245)

VSS(246)

VSS(247)

VSS(248)

VSS(249)

VSS(250)

VSS(251)

VSS(252)

VSS(253)

VSS(254)

VSS(255)

VSS(256)

VSS(257)

VSS(258)

**U4510-9**

VSS(159)

VSS(160)

VSS(161)

VSS(162)

VSS(163)

VSS(164)

VSS(165)

VSS(166)

VSS(167)

VSS(168)

VSS(169)

VSS(170)

VSS(171)

VSS(172)

VSS(173)

VSS(174)

VSS(175)

VSS(176)

VSS(177)

VSS(178)

VSS(179)

VSS(180)

VSS(181)

VSS(182)

VSS(183)

VSS(184)

VSS(185)

VSS(186)

VSS(187)

VSS(188)

VSS(189)

VSS(190)

VSS(191)

VSS(192)

VSS(193)

VSS(194)

VSS(195)

VSS(196)

VSS(197)

VSS(198)

VSS(199)

VSS(200)

VSS(201)

VSS(202)

VSS(203)

VSS(204)

VSS(205)

VSS(206)

VSS(207)

VSS(208)

VSS(209)

VSS(210)

VSS(211)

VSS(212)

VSS(213)

VSS(214)

VSS(215)

VSS(216)

VSS(217)

VSS(218)

VSS(219)

VSS(220)

VSS(221)

VSS(222)

VSS(223)

VSS(224)

VSS(225)

VSS(226)

VSS(227)

VSS(228)

VSS(229)

VSS(230)

VSS(231)

TOUCH PAD SWITCH BOARD

Connect to Touchpad Module

Connect to Mainboard's TP connector

FIX9020 FIX9021  
FIX\_MASK FIX\_MASK

S9020 S9021  
SCREW2.1\_6\_1P SCREW2.1\_6\_1P

GND\_TP

SW9021  
MISAKI\_NTC017\_DA1G\_E106T\_6P

SW9020  
MISAKI\_NTC017\_DA1G\_E106T\_6P

D9041  
PHP\_PESDV52S2UT\_SOT23\_3P

RIGHT\_TP

LEFT\_TP

GND\_TP

TP\_IM\_CLK 5  
TP\_IM\_DAT 5  
LEFT\_TP  
RIGHT\_TP

+TP\_5S  
48-

PAD9021  
1 2 3 4 5 6

SMDPAD6\_100\_28X118

GND\_TP

TP\_IM\_DAT 5  
TP\_IM\_CLK 5

+TP\_5S  
48-

PAD9022  
1 2 3 4

SMDPAD4\_100\_28X118

GND\_TP

INVENTEC			
TITLE CT10R			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2423901-0-MT	MAX1
CHANGE by		Yeh, Webber	8-Nov-2010
SHEET		48	OF 50

TOUCH PAD SWITCH BOARD

Connect to Touchpad Module

Connect to Mainboard's TP connector

FIX9020 FIX9021  
FIX\_MASK FIX\_MASK

S9020 S9021  
SCREW2.1\_6\_1P SCREW2.1\_6\_1P

GND\_TP

SW9021  
MISAKI\_NTC017\_DA1G\_E106T\_6P

SW9020  
MISAKI\_NTC017\_DA1G\_E106T\_6P

D9041  
PHP\_PESDV52S2UT\_SOT23\_3P

RIGHT\_TP

LEFT\_TP

GND\_TP

TP\_IM\_CLK 5  
TP\_IM\_DAT 5  
LEFT\_TP  
RIGHT\_TP

+TP\_5S  
48-

PAD9021  
1  
2  
3  
4  
5  
6

SMDPAD6\_100\_28X118

GND\_TP

TP\_IM\_DAT 5  
TP\_IM\_CLK 5

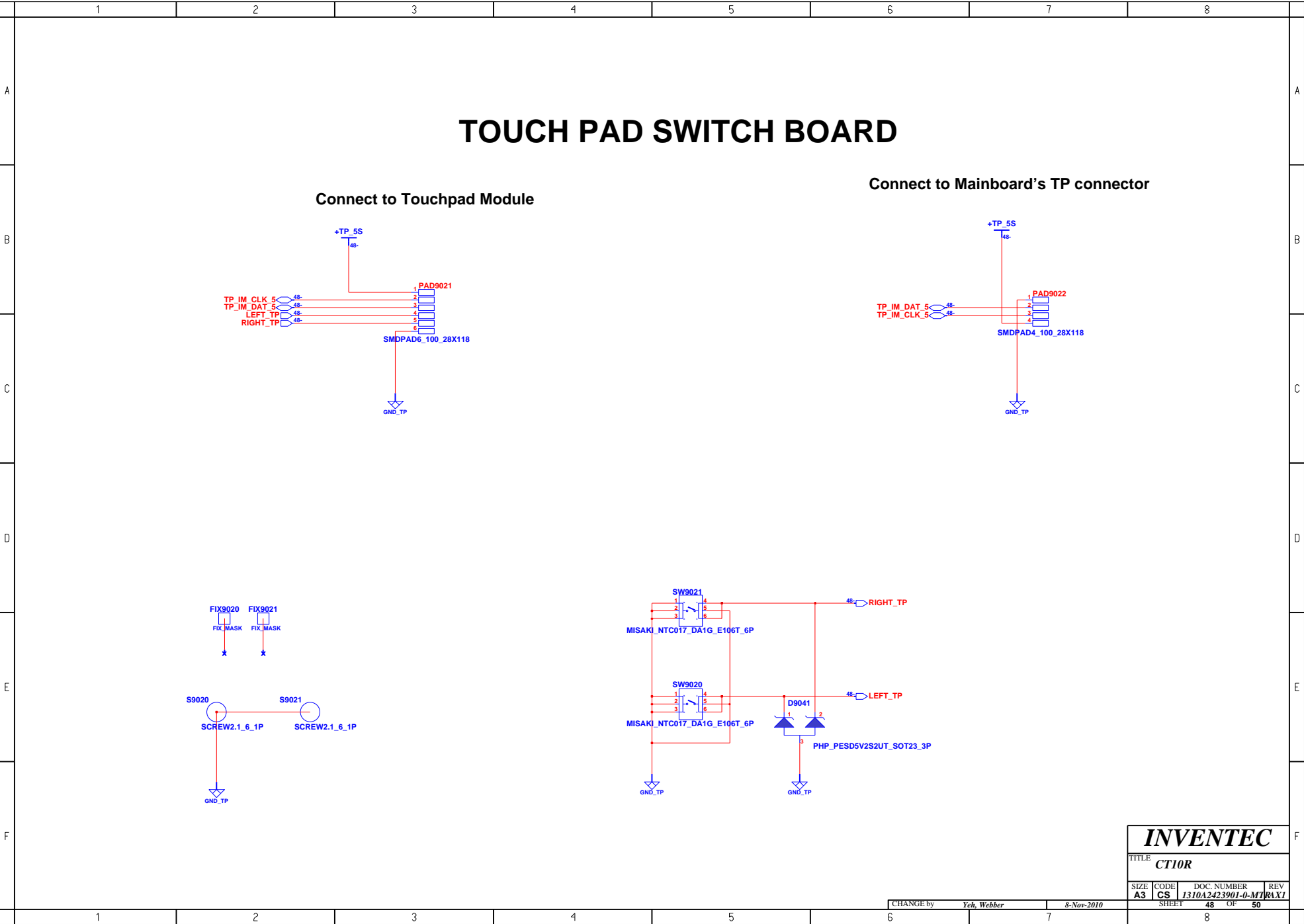
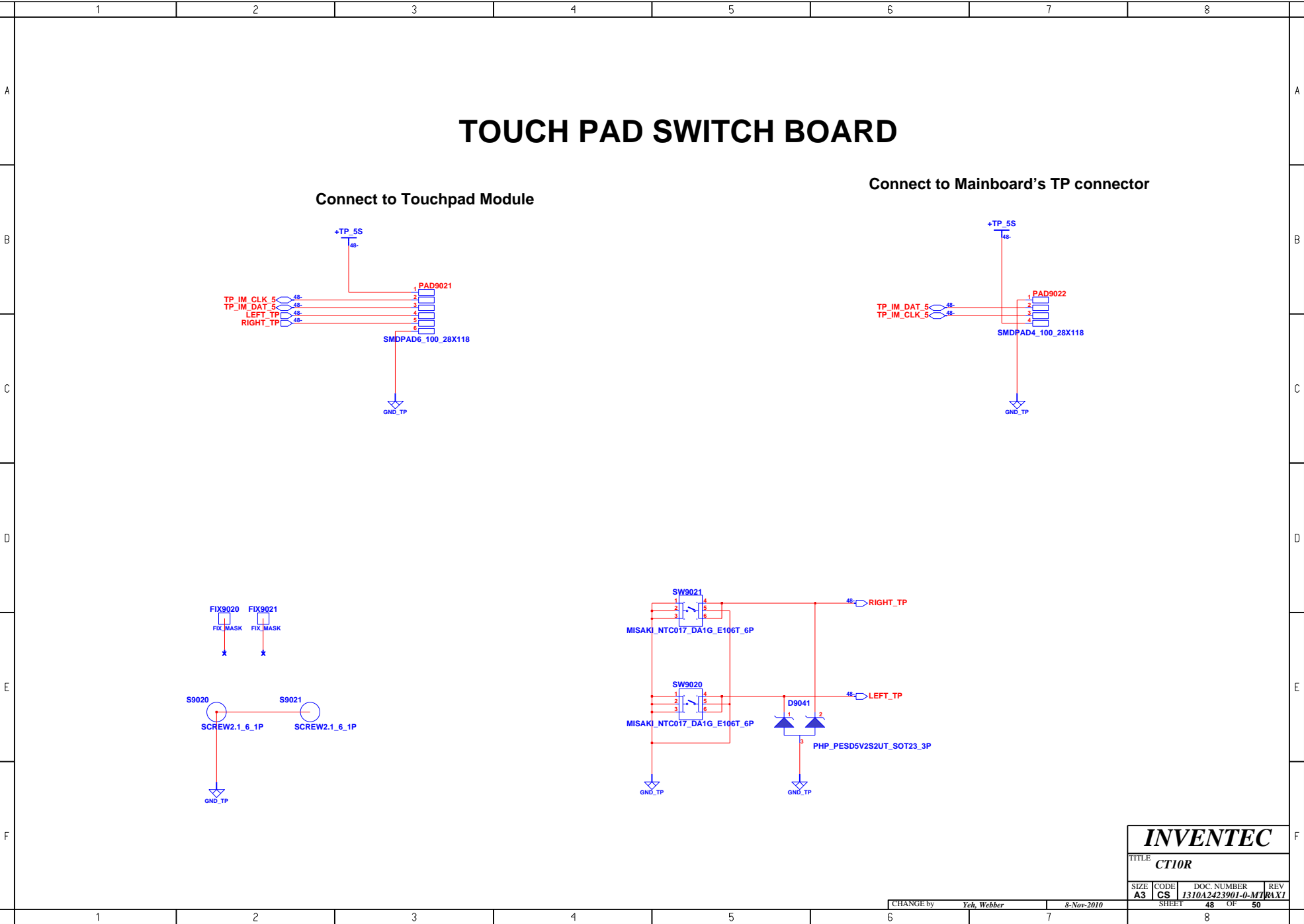
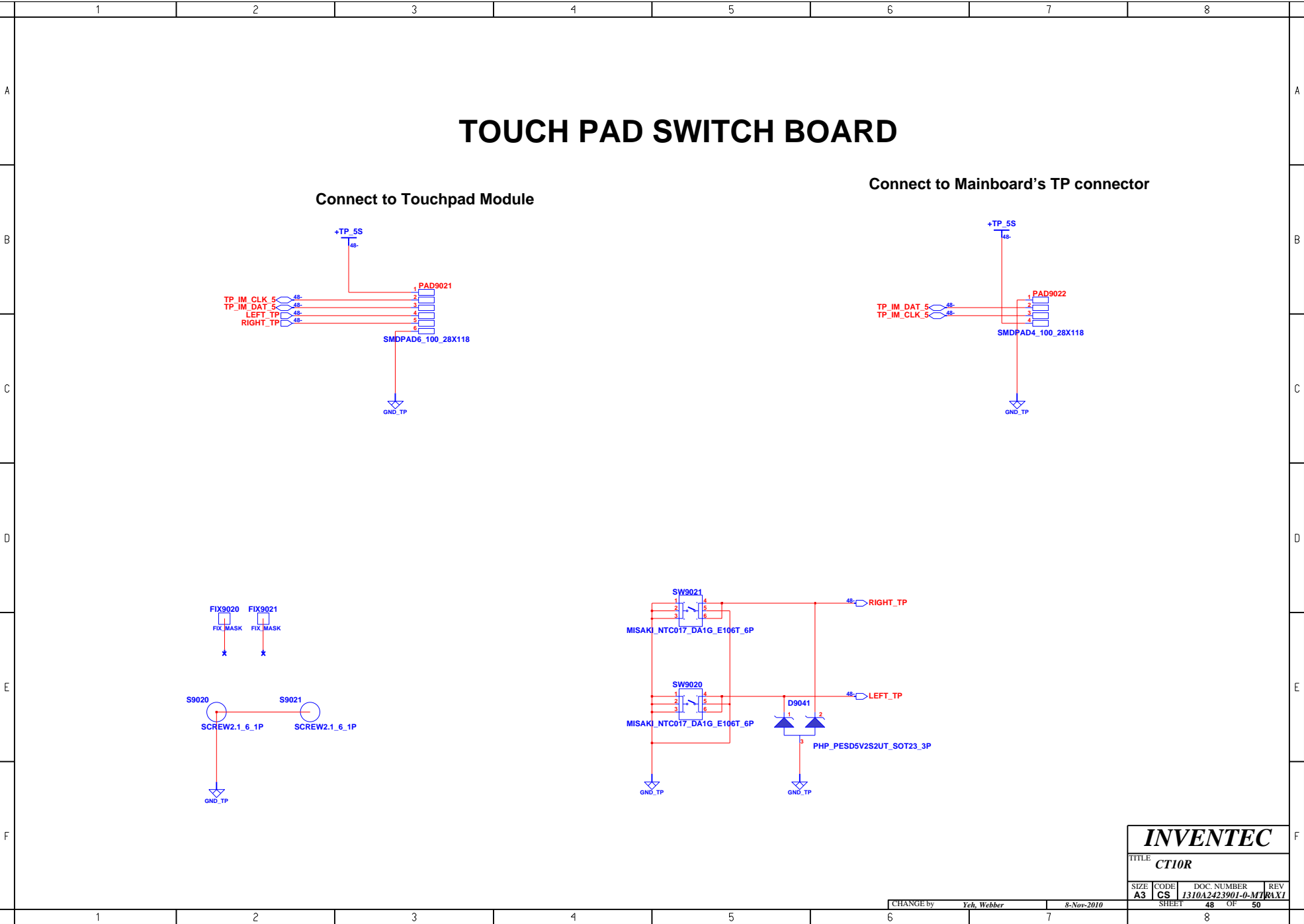
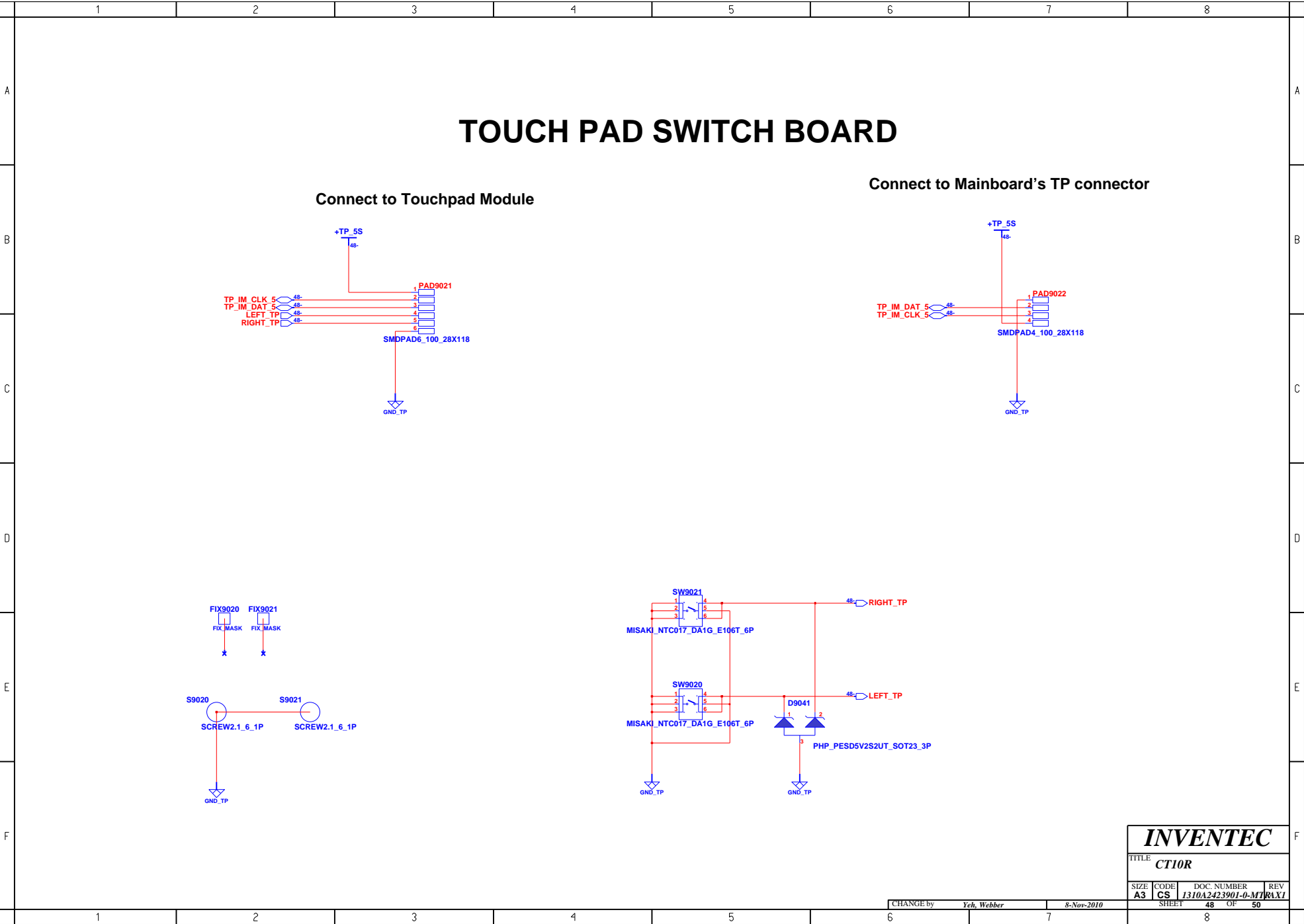
+TP\_5S  
48-

PAD9022  
1  
2  
3  
4

SMDPAD4\_100\_28X118

GND\_TP

INVENTEC			
TITLE CT10R			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2423901-0-MT	MAX1
CHANGE by		Yeh, Webber	8-Nov-2010
SHEET		48	OF 50



TOUCH PAD SWITCH BOARD

Connect to Touchpad Module

Connect to Mainboard's TP connector

FIX9020 FIX9021  
FIX\_MASK FIX\_MASK

S9020 S9021  
SCREW2.1\_6\_1P SCREW2.1\_6\_1P

GND\_TP

SW9021  
MISAKI\_NTC017\_DA1G\_E106T\_6P

SW9020  
MISAKI\_NTC017\_DA1G\_E106T\_6P

D9041  
PHP\_PESDV52S2UT\_SOT23\_3P

RIGHT\_TP

LEFT\_TP

GND\_TP

TP\_IM\_CLK 5 48-  
TP\_IM\_DAT 5 48-  
LEFT\_TP 48-  
RIGHT\_TP 48-

PAD9021

SMDPAD6\_100\_28X118

GND\_TP

TP\_IM\_DAT 5 48-  
TP\_IM\_CLK 5 48-

PAD9022

SMDPAD4\_100\_28X118

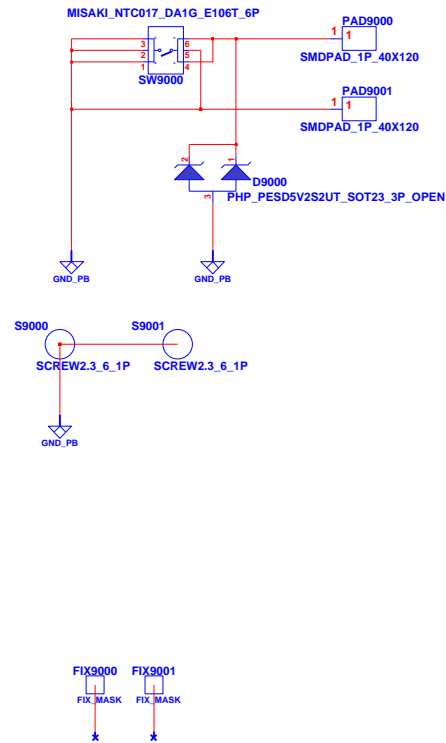
GND\_TP

CHANGE by Yeh, Webber 8-Nov-2010

INVENTEC			
TITLE CT10R			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A2423901-0-MT	MAX1
SHEET		48	OF 50



# POWER BOARD



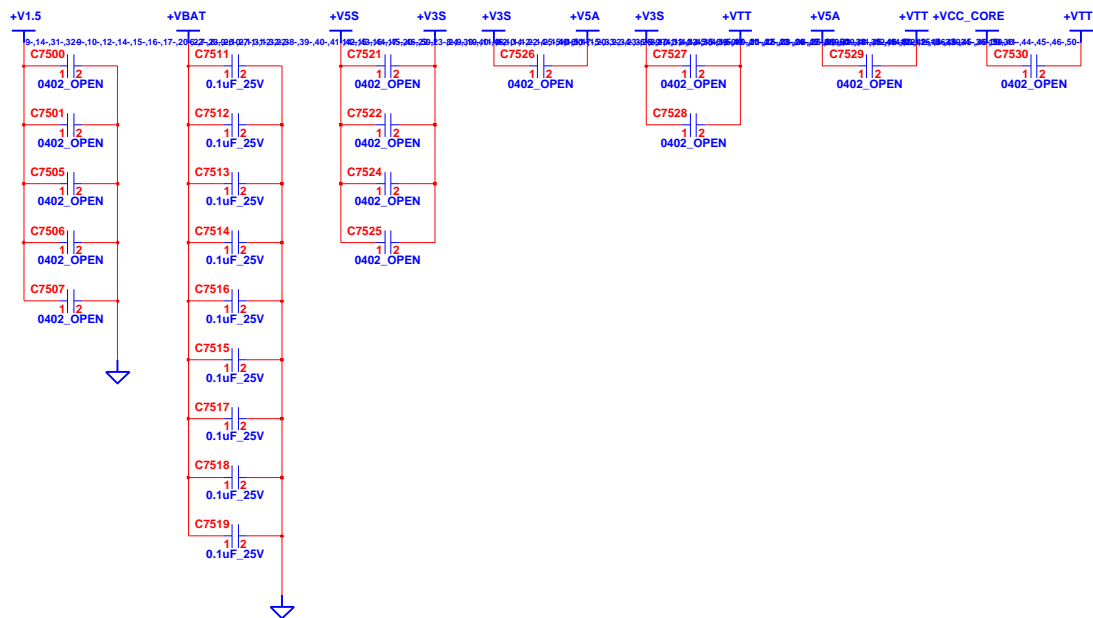
**INVENTEC**

TITLE  
**CT10R**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>1310A2423901-0-MT</b>	REV <b>MAX1</b>
SHEET <b>49</b>		OF <b>50</b>	

CHANGE by **Yeh, Webber** 8-Nov-2010

# EMI



**INVENTEC**

TITLE  
**CT10R**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2423901-0-MT	MAX1

SHEET	OF
50	50

CHANGE by Yeh, Webber 8-Nov-2010