

# S-CLASS

## Prince/Pearl

### SI2 Build

2008/02/14

<http://laptop-motherboard-schematic.blogspot.com/>

|      |            |     |
|------|------------|-----|
|      |            |     |
|      |            |     |
|      |            |     |
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|      |            |     |
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|      |            |     |
|      |            |     |
| DATE | CHANGE NO. | REV |

|                            |              |      |       |      |                           |      |             |     |
|----------------------------|--------------|------|-------|------|---------------------------|------|-------------|-----|
| DRAWER                     | EE           | DATE | POWER | DATE | <b>INVENTEC</b>           |      |             |     |
| DESIGN                     |              |      |       |      | TITLE <b>Prince/Pearl</b> |      |             |     |
| CHECK                      |              |      |       |      |                           |      |             |     |
| RESPONSIBLE                |              |      |       |      |                           |      |             |     |
| SIZE = 3                   |              |      |       |      | SIZE                      | CODE | DOC. NUMBER | REV |
| FILE NAME : XXXX-XXXXXX-XX |              |      |       |      | A3                        | CS   | SI 1        | X02 |
| P/N                        | XXXXXXXXXXXX |      |       |      | SHEET 1 OF 53             |      |             |     |

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 9- +VCC\_NB & +V1.2A  
 10- +VCC\_CORE  
 11- POWER  
 12- DDR2 POWER  
 13- POWER(SLEEP)  
 14- POWER(SEQUENCE)

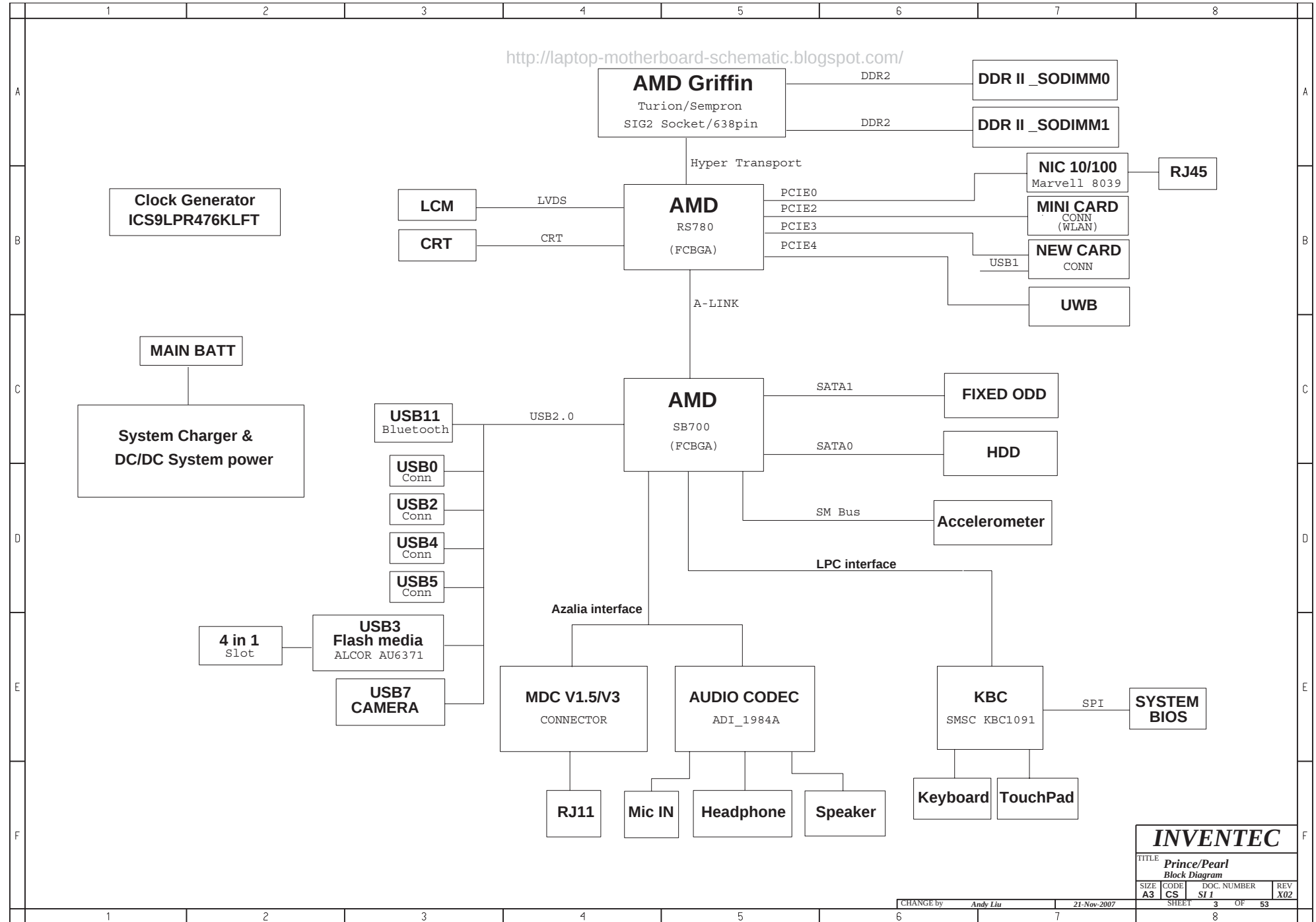
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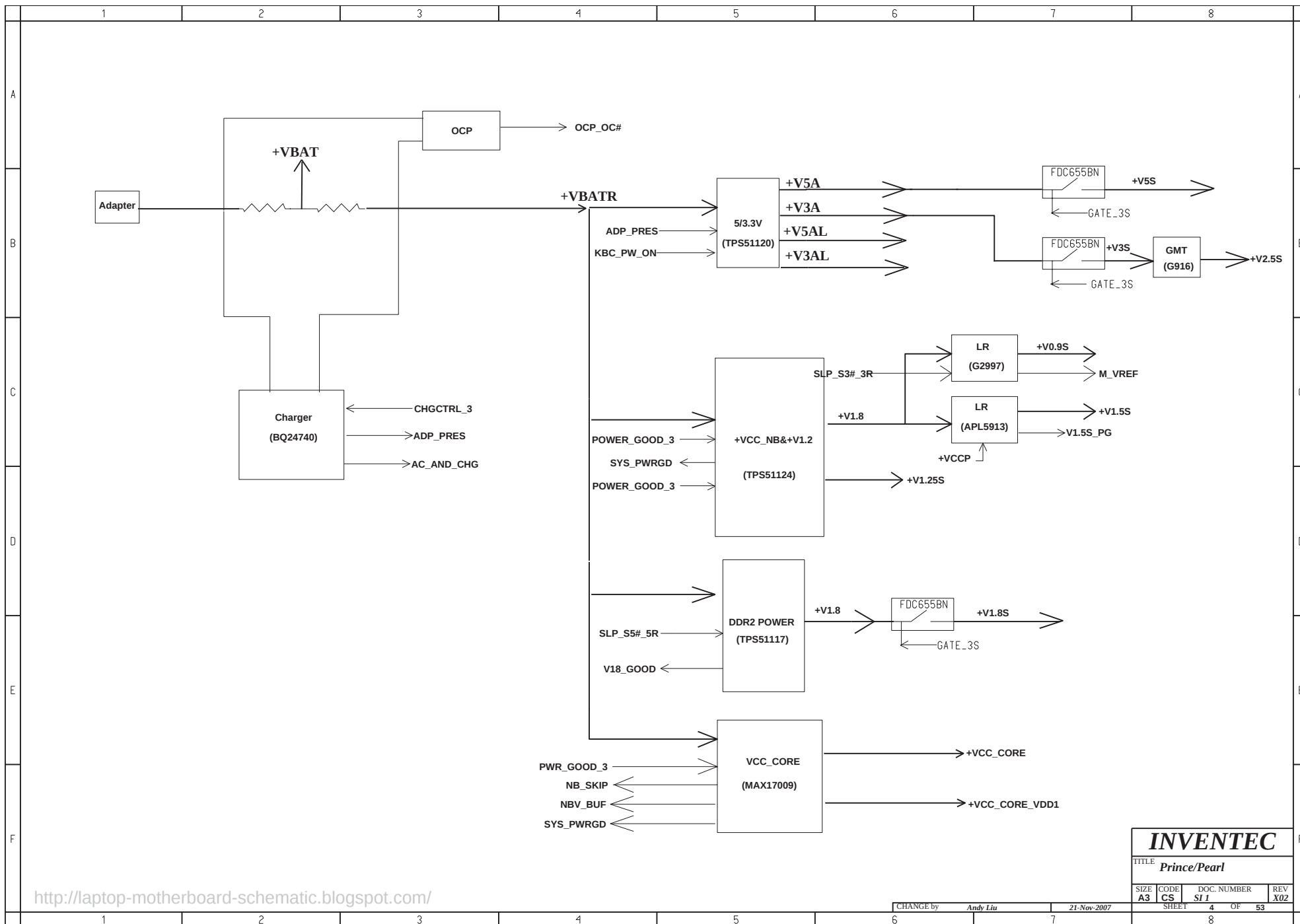
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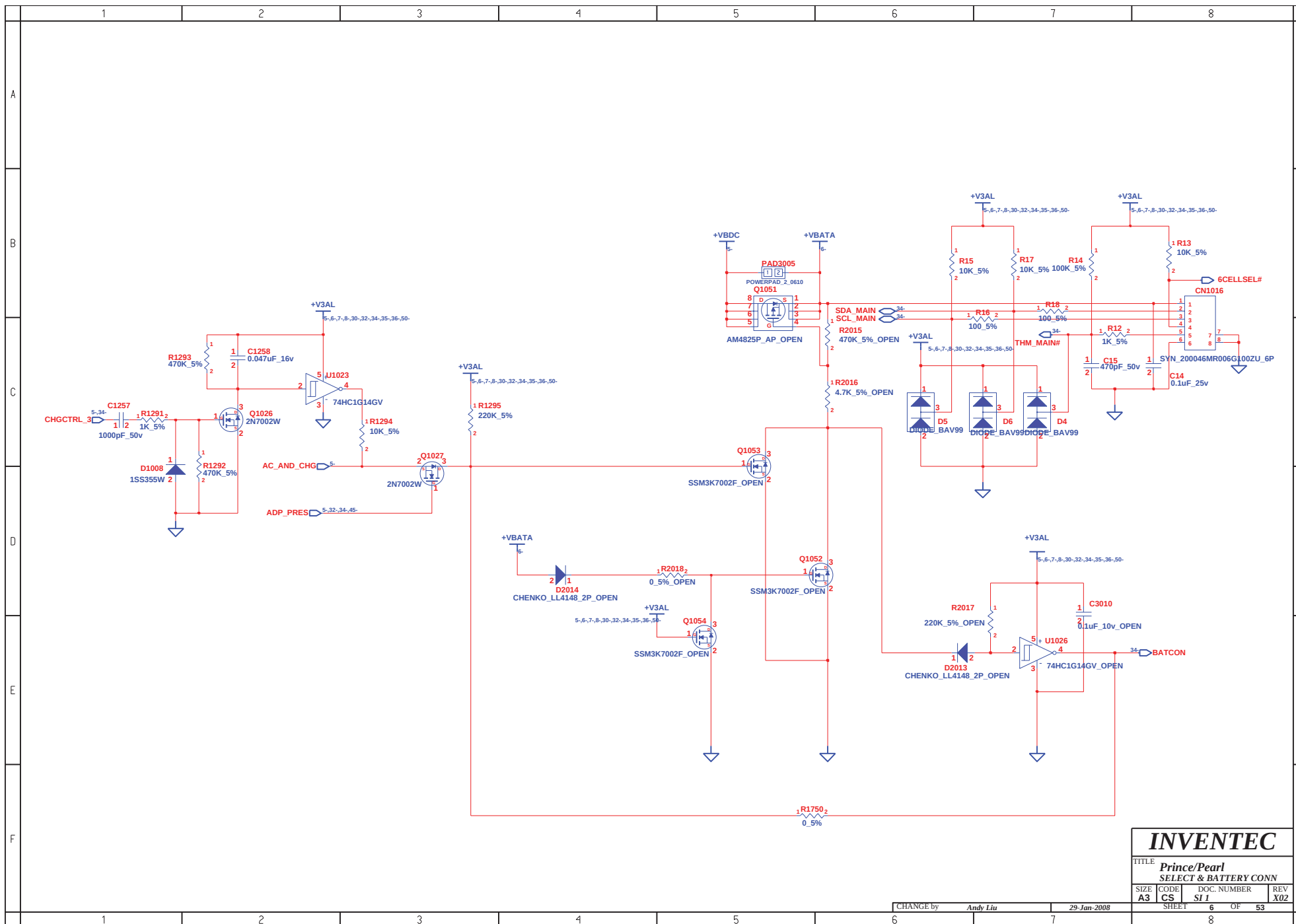
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| INVENTEC                               |            |                     |            |
|----------------------------------------|------------|---------------------|------------|
| TITLE Prince/Pearl<br>Table OF Content |            |                     |            |
| SIZE<br>A3                             | CODE<br>CS | DOC. NUMBER<br>SI 1 | REV<br>X02 |
| CHANGE by Andy Liu                     |            | 21-Nov-2007         |            |
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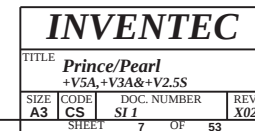
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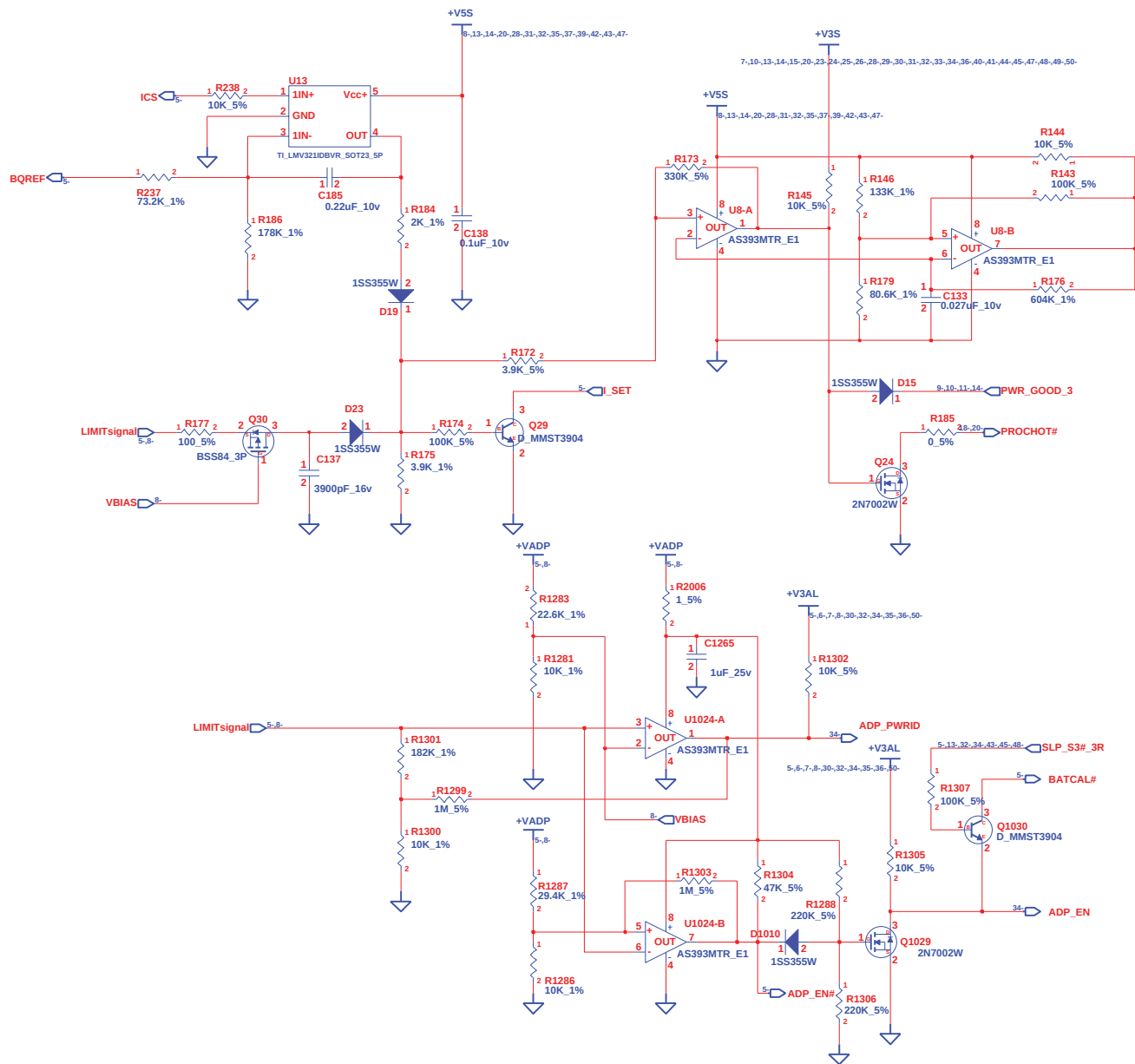
TITLE  
**Prince/Pearl  
SELECT & BATTERY CONN**

|                   |                   |                            |                   |
|-------------------|-------------------|----------------------------|-------------------|
| SIZE<br><b>A3</b> | CODE<br><b>CS</b> | DOC. NUMBER<br><b>SI 1</b> | REV<br><b>X02</b> |
|-------------------|-------------------|----------------------------|-------------------|

CHANGE by **Andy Liu** 29-Jan-2008

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**INVENTEC**

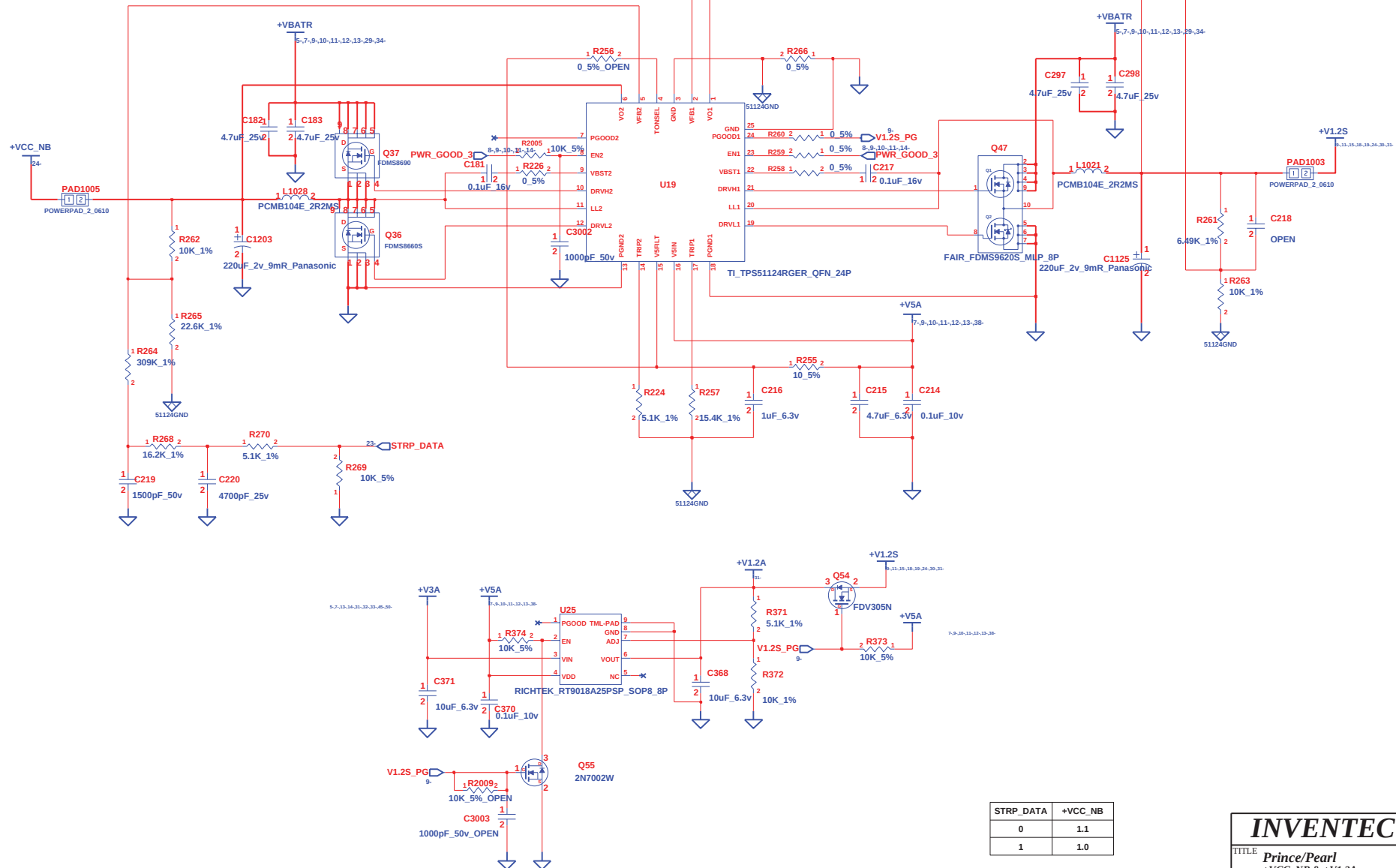
TITLE  
**Prince/Pearl  
OCP**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3   | CS   | SI 1        | X02 |

CHANGE by *Andy Liu* 22-Jun-2008

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| STRP_DATA | +VCC_NB |
|-----------|---------|
| 0         | 1.1     |
| 1         | 1.0     |

**INVENTEC**

TITLE  
**Prince/Pearl**  
+VCC\_NB & +V1.2A

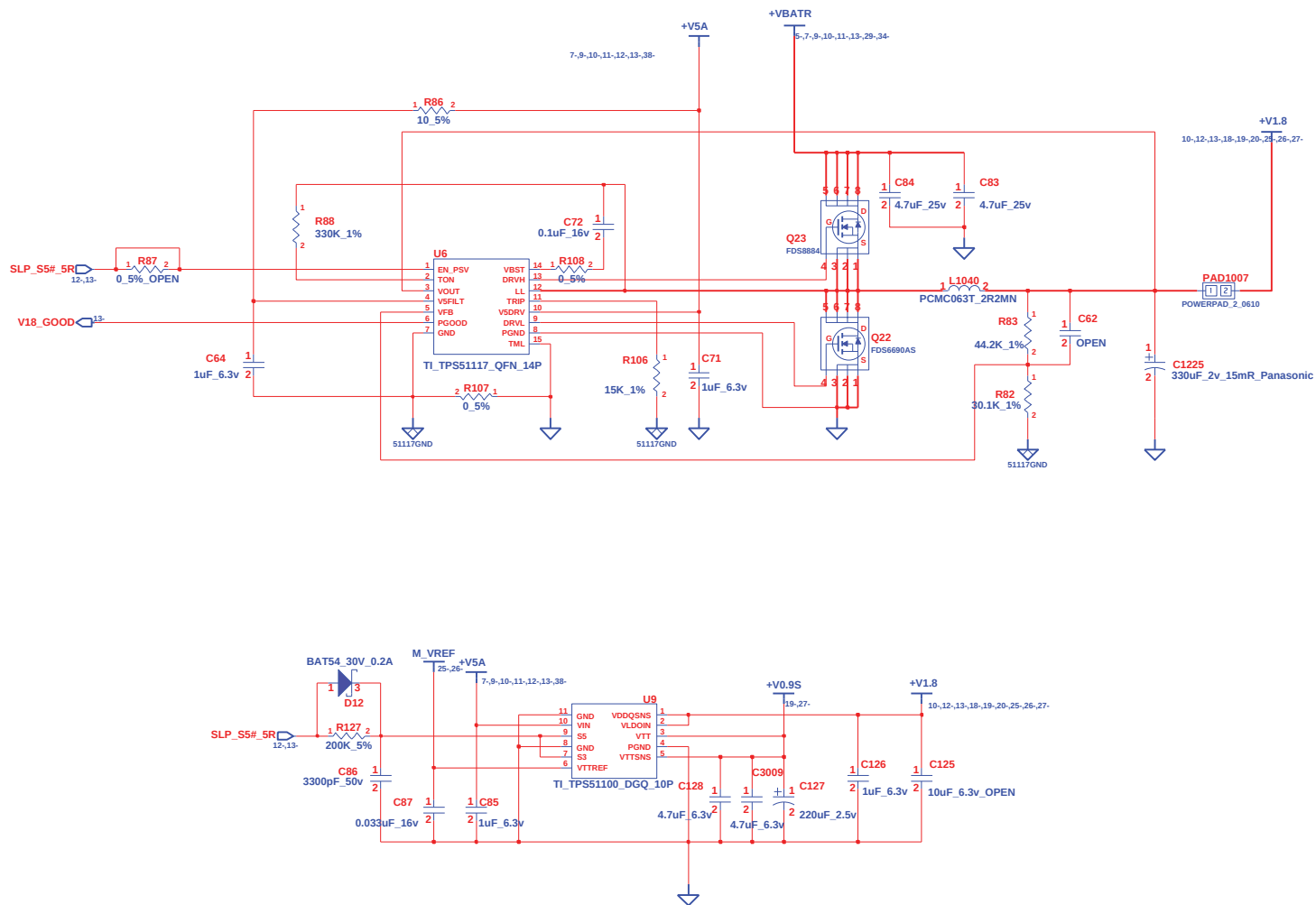
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|-------------------|-------------------|----------------------------|-------------------|

CHANGE by *Andy Liu* 30-Nov-2007

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NOTE: DDR2 REGULATOR

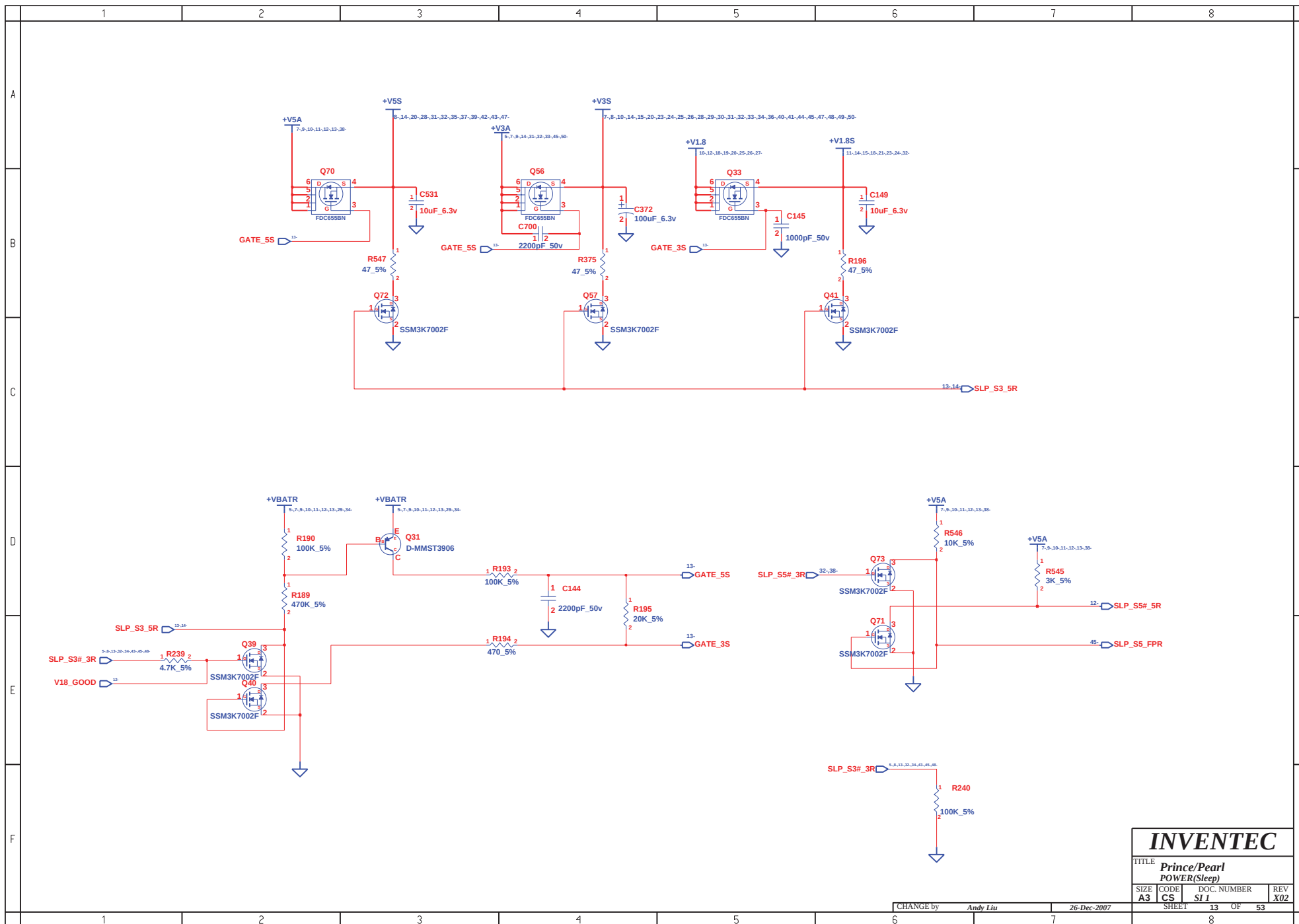
**INVENTEC**

TITLE  
**Prince/Pearl  
DDR2 POWER**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3   | CS   | SI 1        | X02 |

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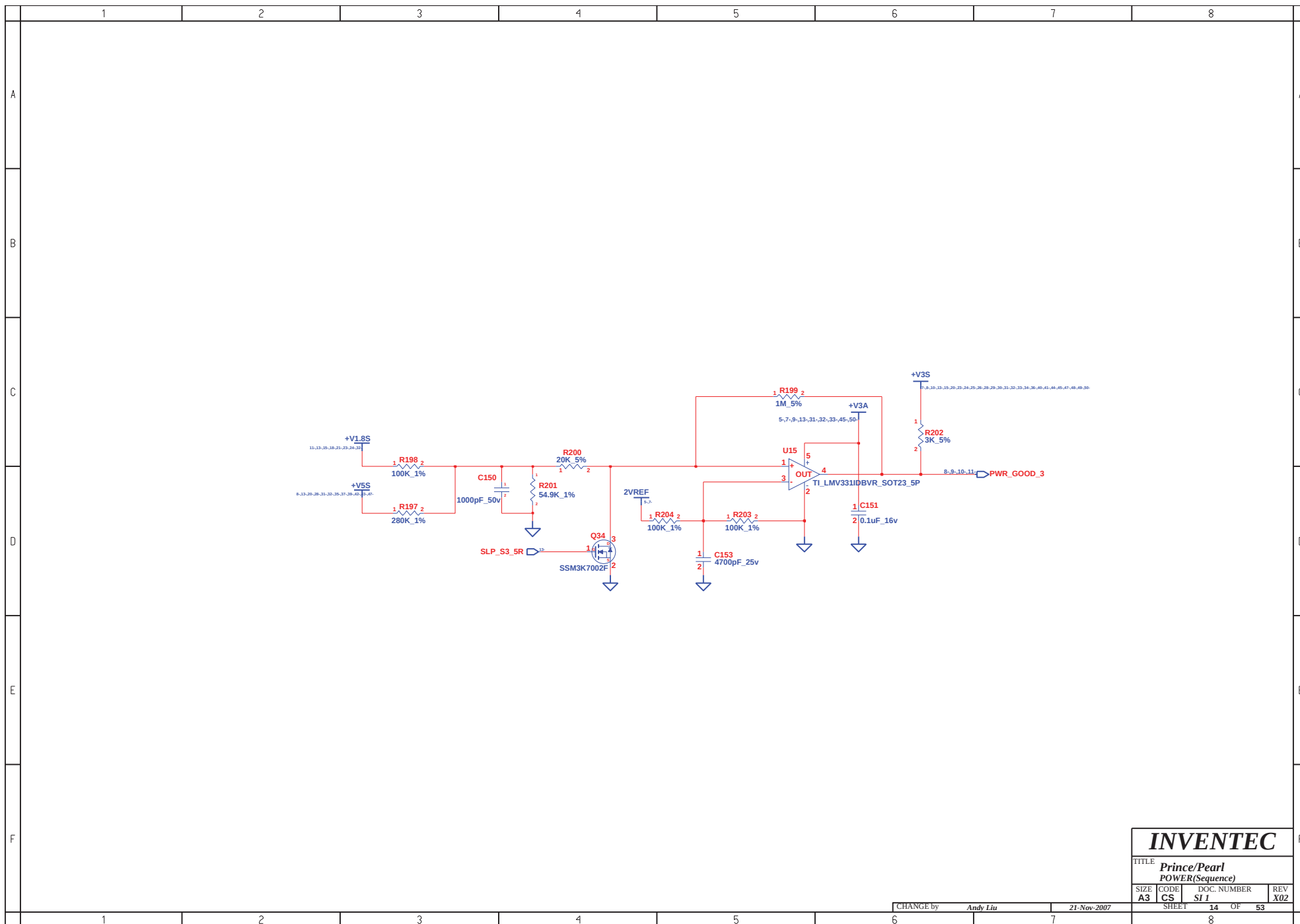
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TITLE  
**Prince/Pearl  
POWER(Sleep)**

|                   |                   |                            |                   |
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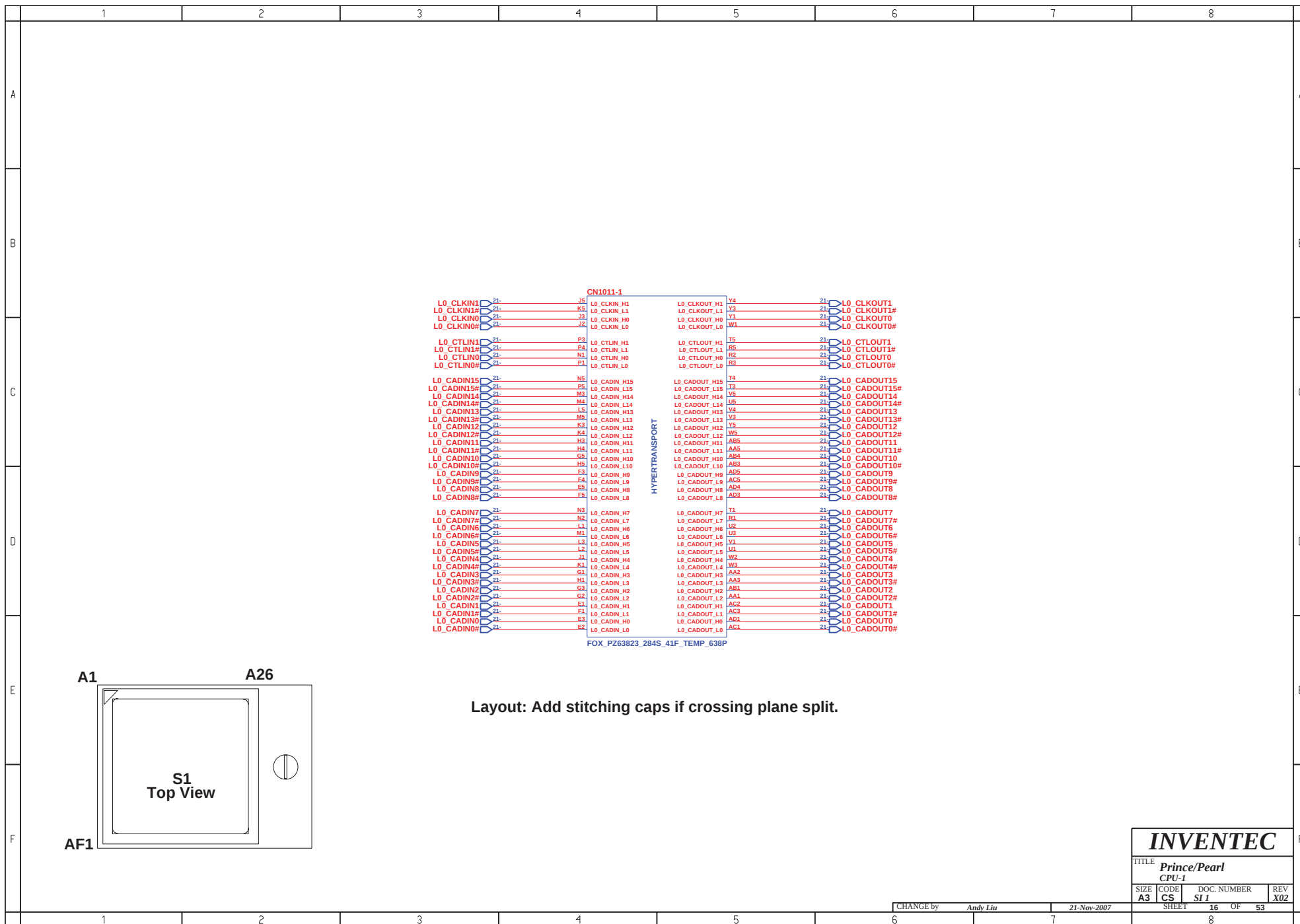
CHANGE by *Andy Liu* 26-Dec-2007

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| INVENTEC                           |         |                  |         |
|------------------------------------|---------|------------------|---------|
| TITLE Prince/Pearl POWER(Sequence) |         |                  |         |
| SIZE A3                            | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| CHANGE by Andy Liu                 |         | 21-Nov-2007      |         |
| SHEET 14                           |         | OF 53            |         |
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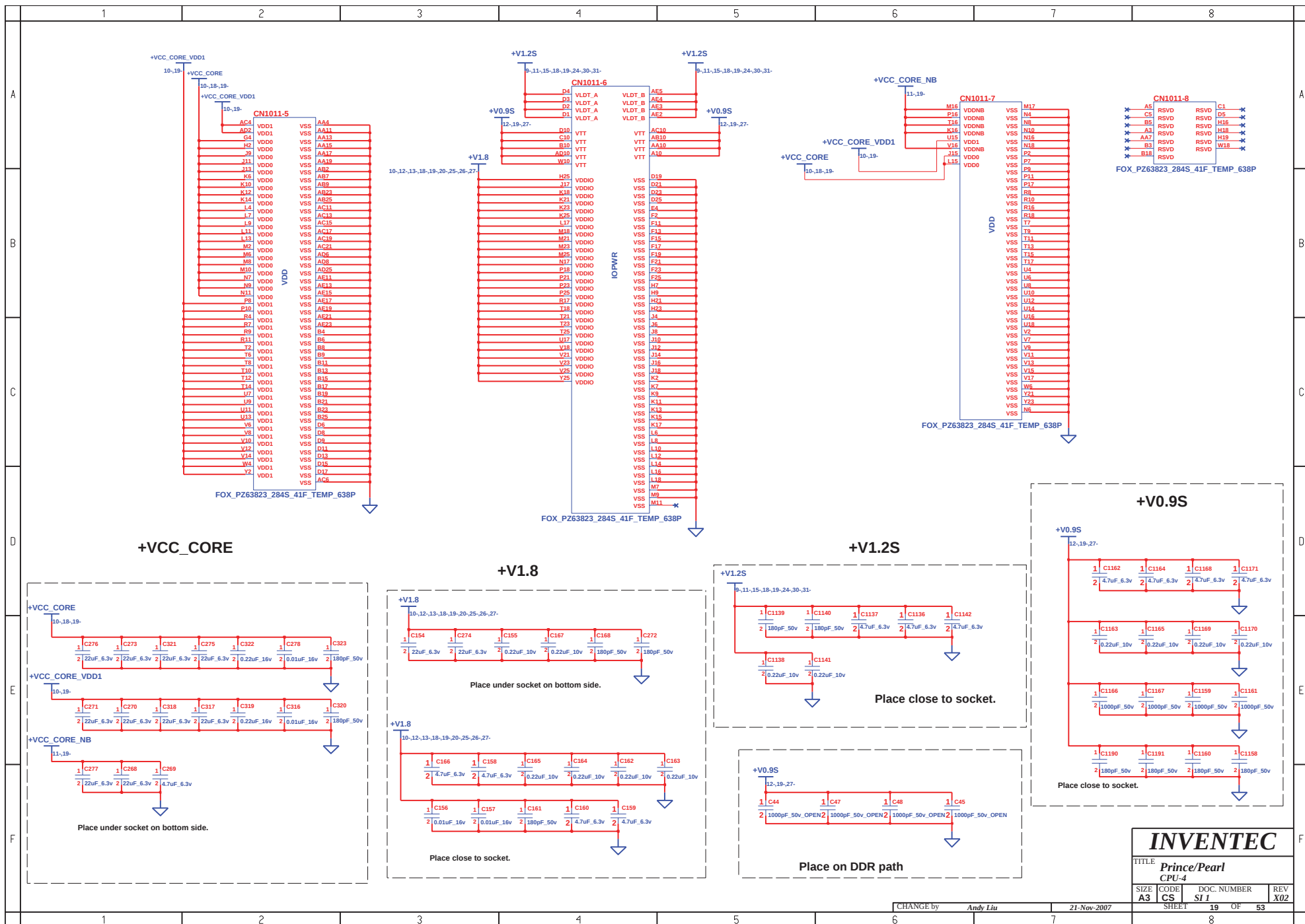


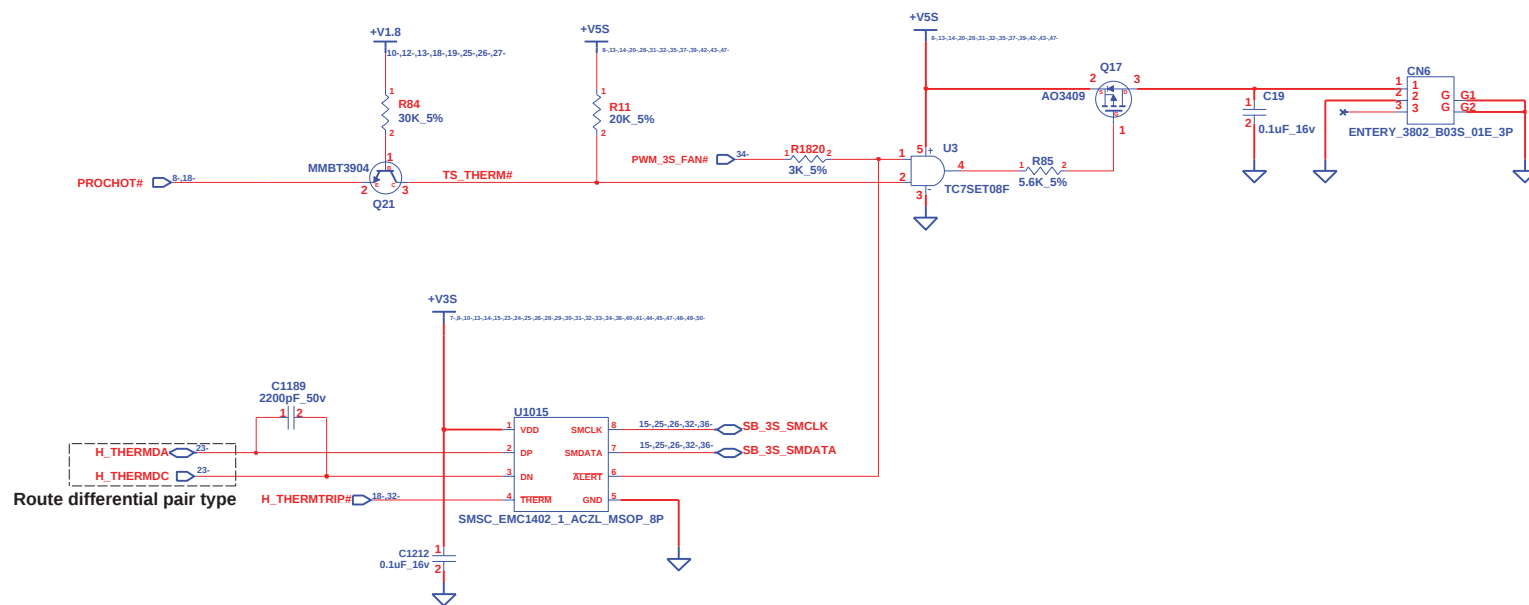


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| TITLE Prince/Pearl CPU-1 |         |                  |         |
| SIZE A3                  | CODE CS | DOC. NUMBER S1 1 | REV X02 |
| CHANGE by Andy Liu       |         | 21-Nov-2007      |         |
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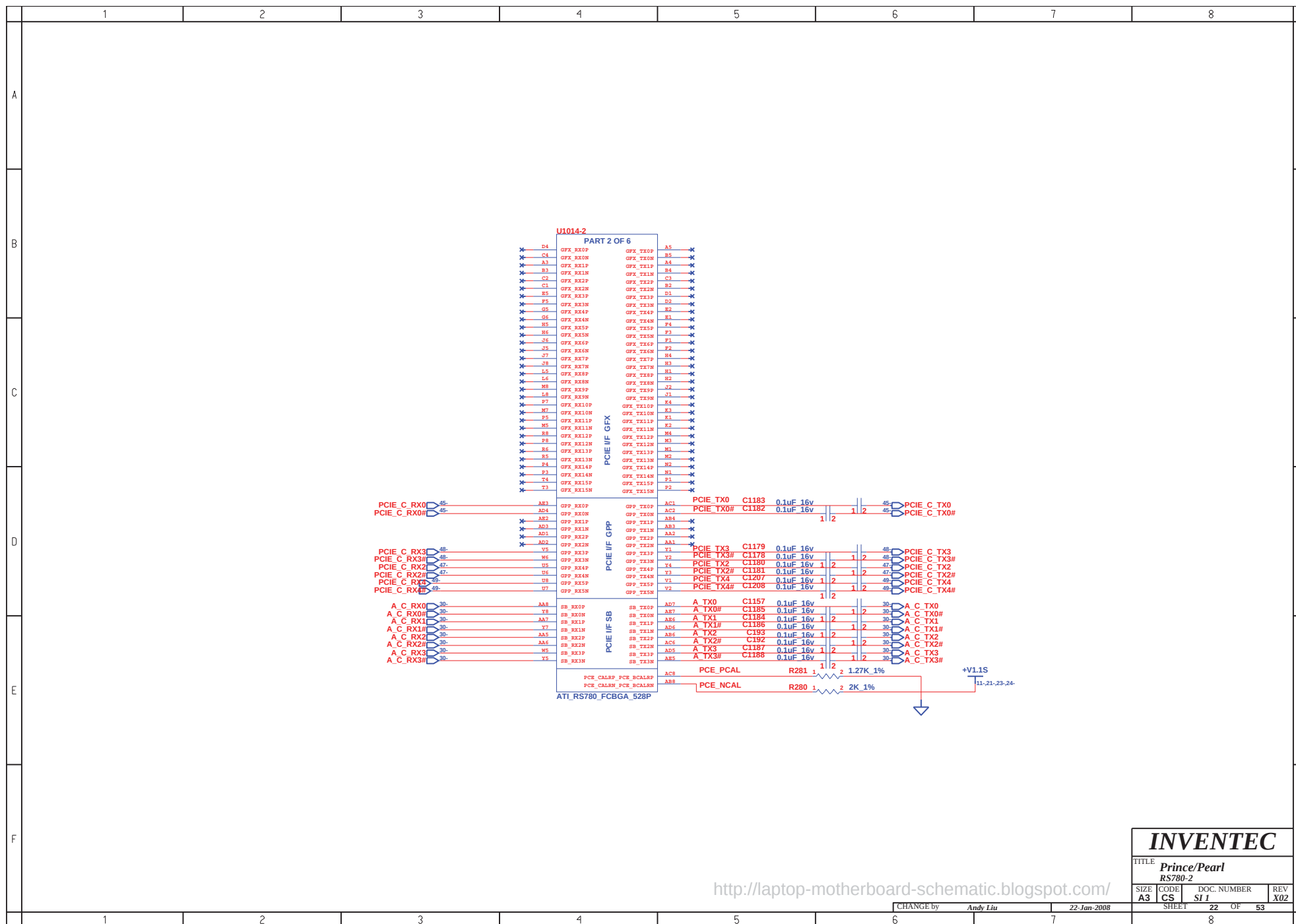
LAYOUT Note: Put the thermal sensor close to CPU.

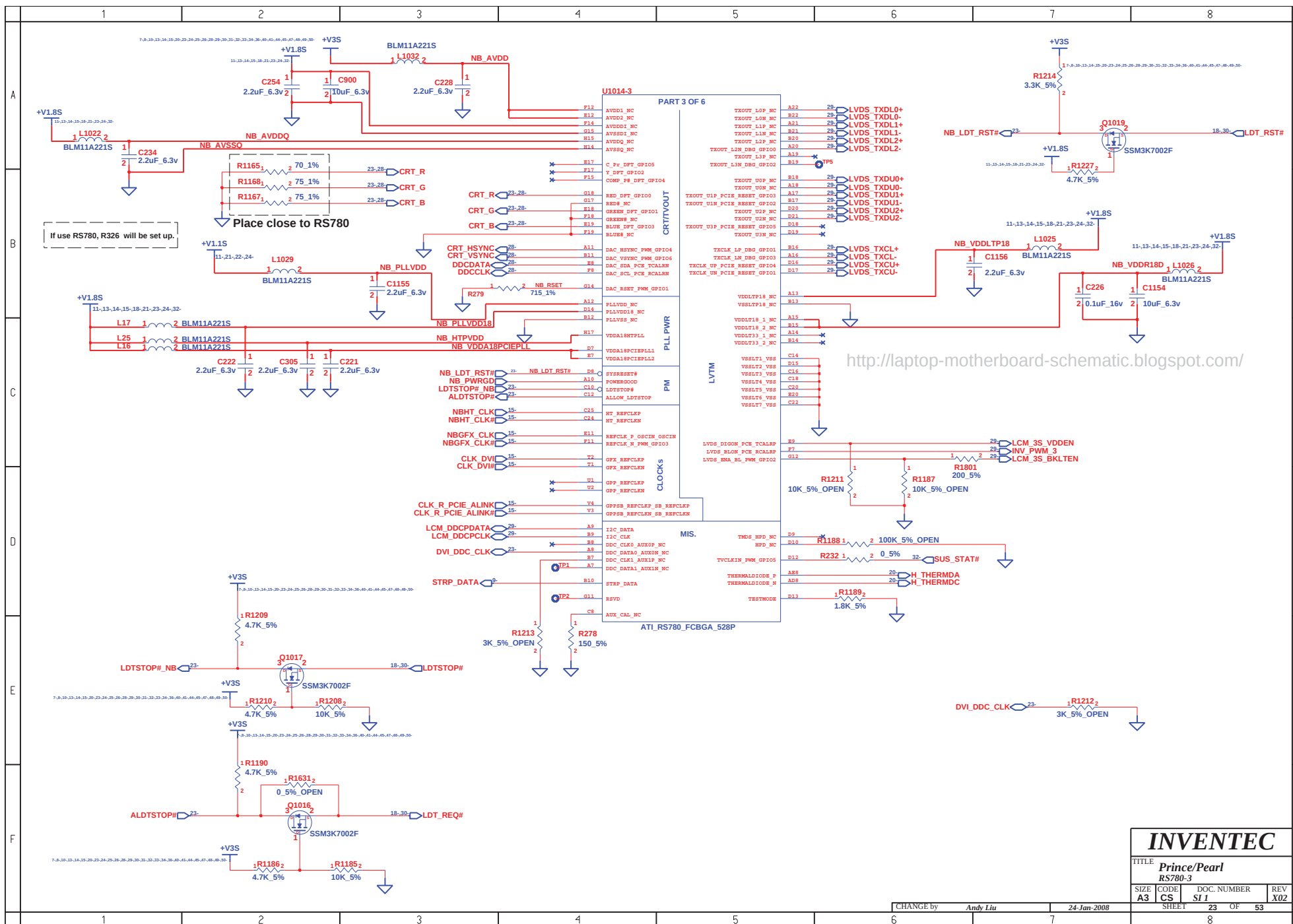
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|--------------------------|------|-------------|-----|
| TITLE                    |      |             |     |
| Prince/Pearl             |      |             |     |
| THERMAL & FAN CONTROLLER |      |             |     |
| SIZE                     | CODE | DOC. NUMBER | REV |
| A3                       | CS   | SI 1        | X02 |

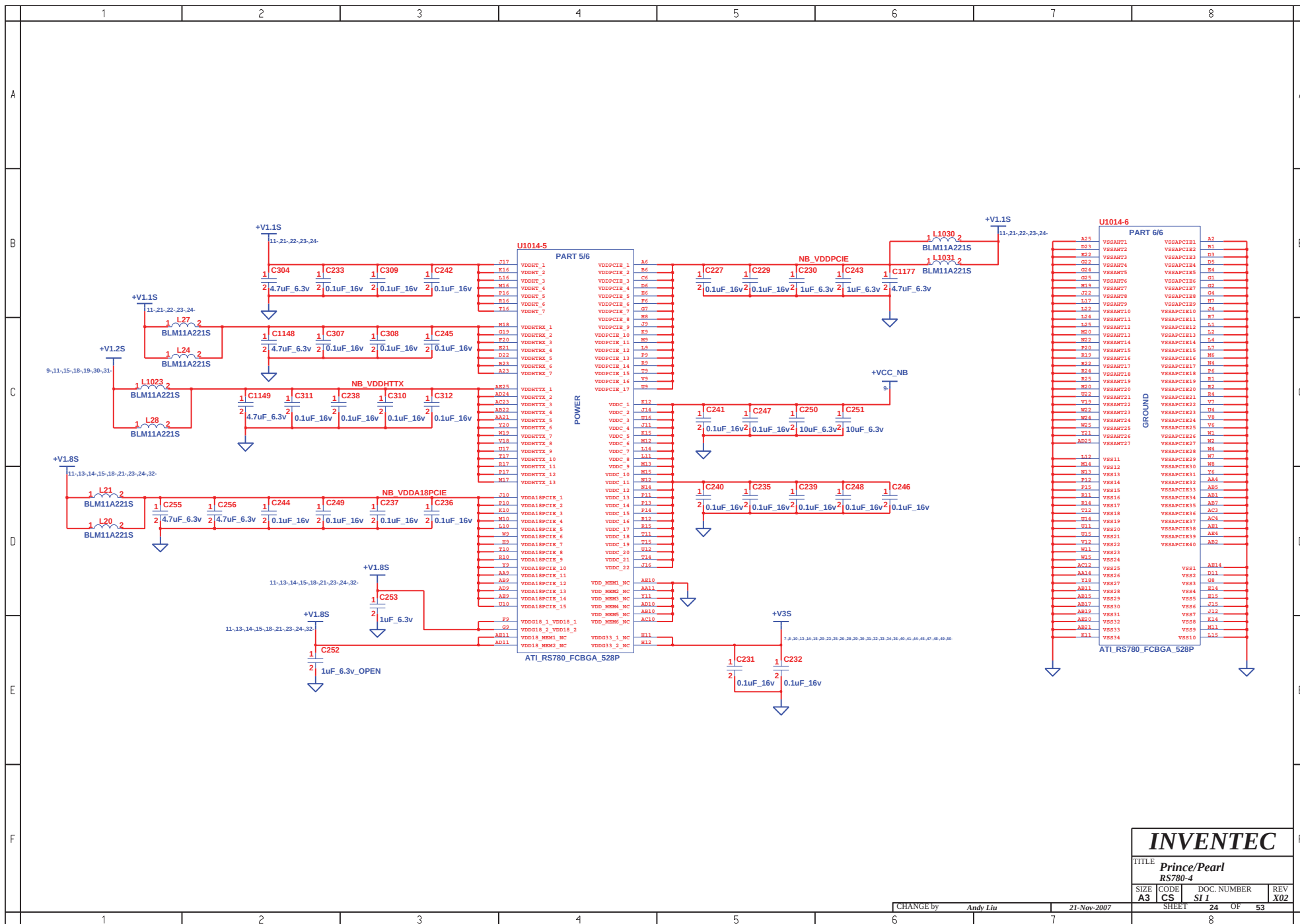
CHANGE by Andy Liu 26-Nov-2007

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**INVENTEC**

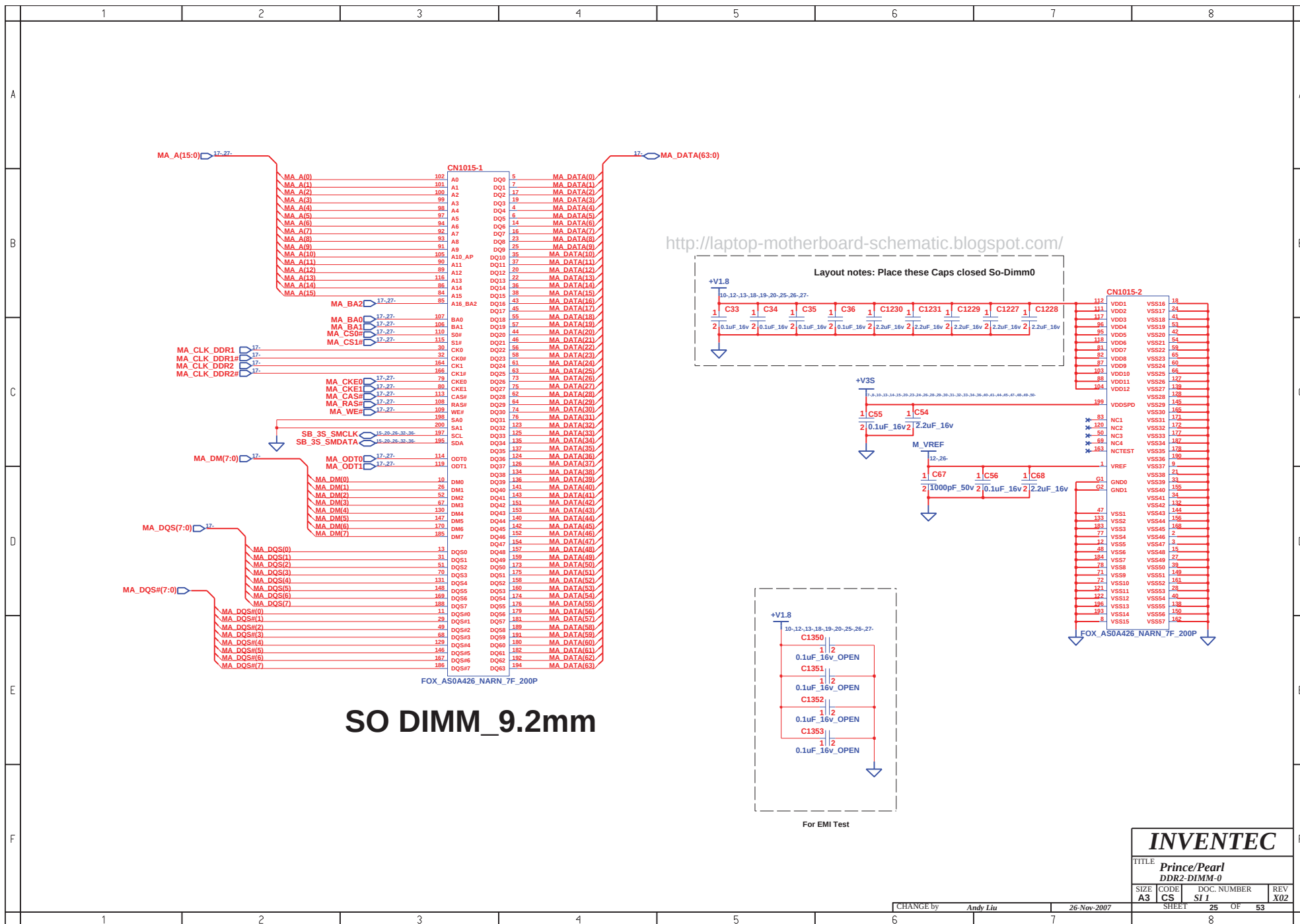
TITLE  
**Prince/Pearl  
RS780-4**

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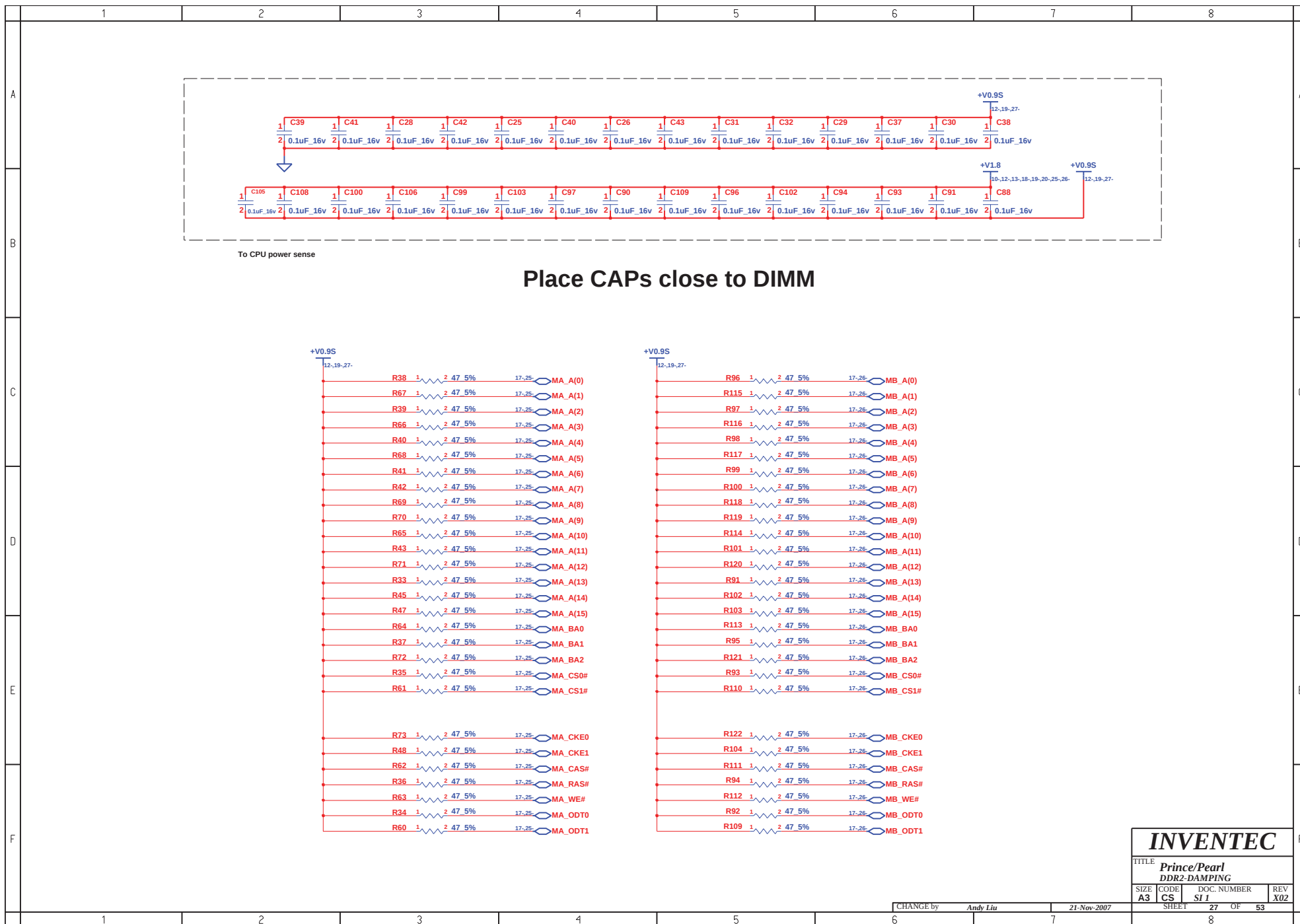
CHANGE by *Andy Liu* 21-Nov-2007

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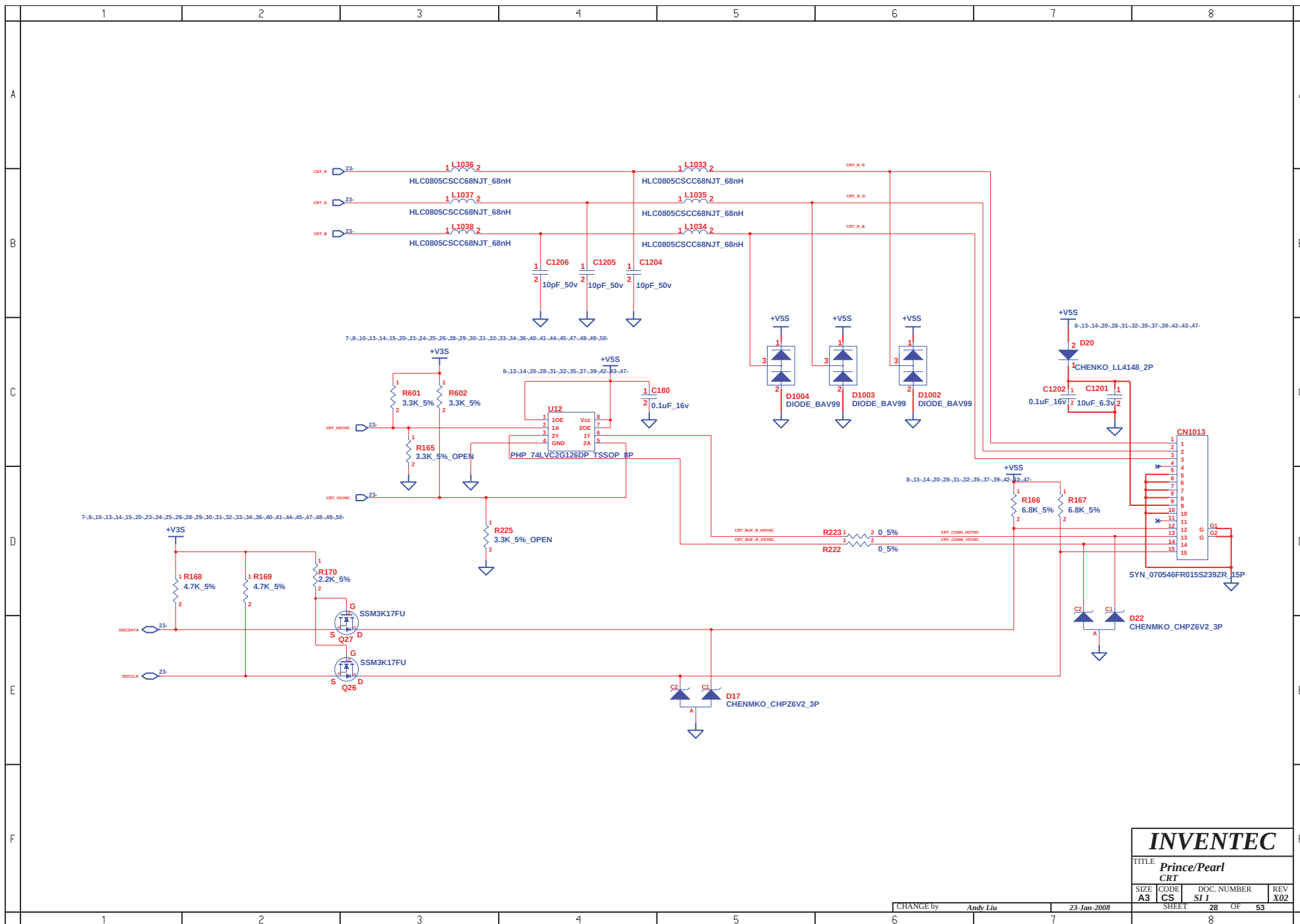
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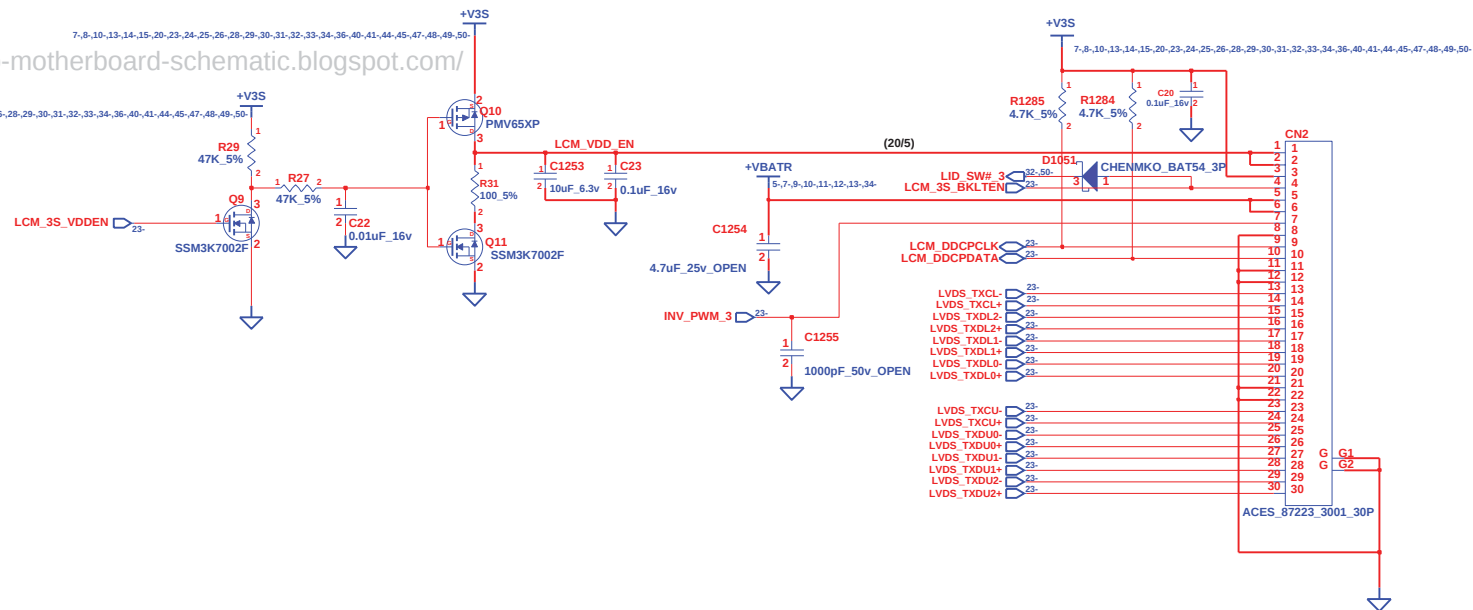


|                                               |                   |                            |                   |
|-----------------------------------------------|-------------------|----------------------------|-------------------|
| INVENTEC                                      |                   |                            |                   |
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| SIZE<br><b>A3</b>                             | CODE<br><b>CS</b> | DOC. NUMBER<br><b>SI 1</b> | REV<br><b>X02</b> |
| CHANGE by <i>Andy Liu</i>                     |                   | 21-Nov-2007                |                   |
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| INVENTEC               |         |                  |         |
|------------------------|---------|------------------|---------|
| TITLE Prince/Pearl CRT |         |                  |         |
| SIZE A3                | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| CHANGE by Andy Liu     |         | 23-Jan-2008      |         |
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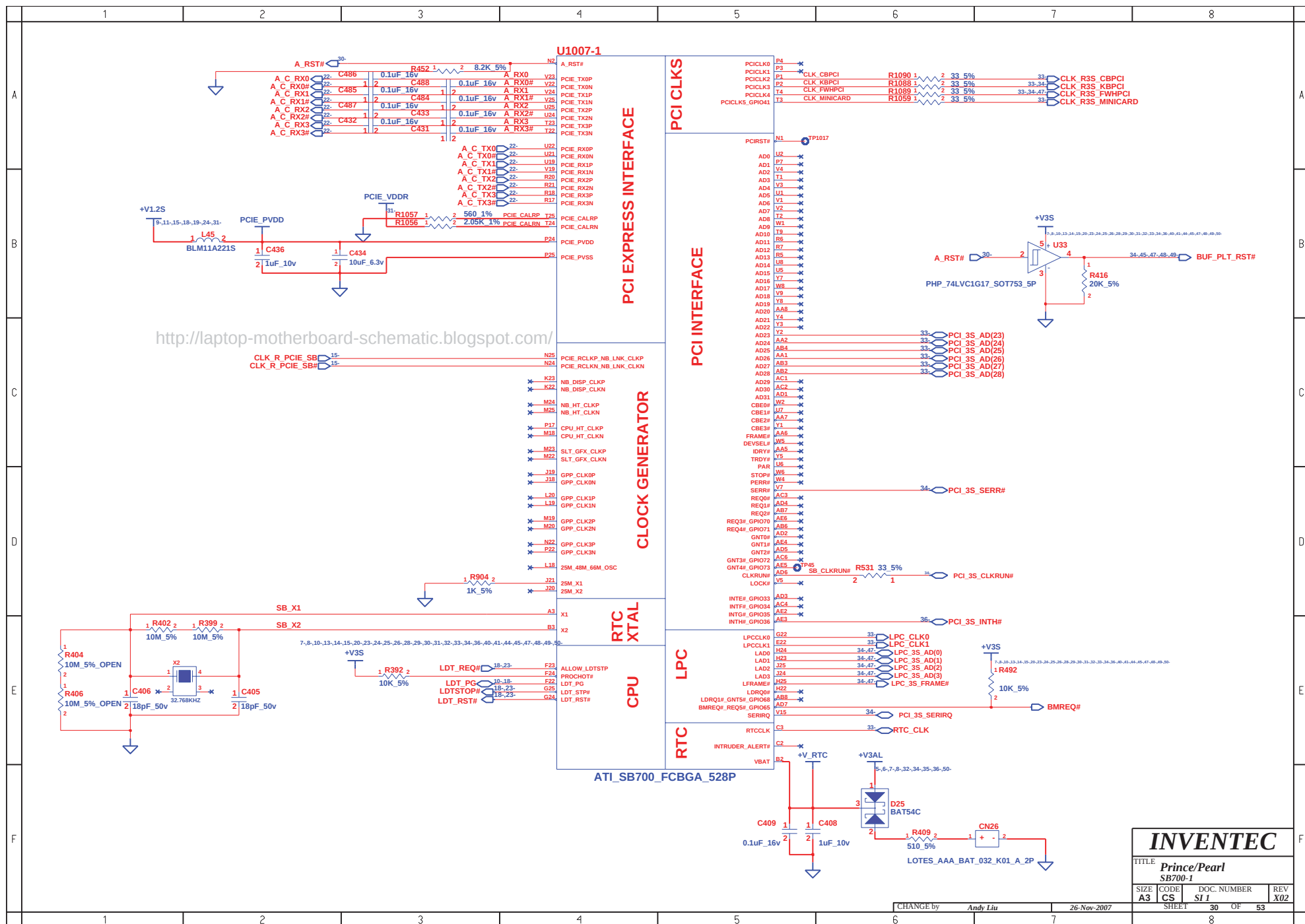


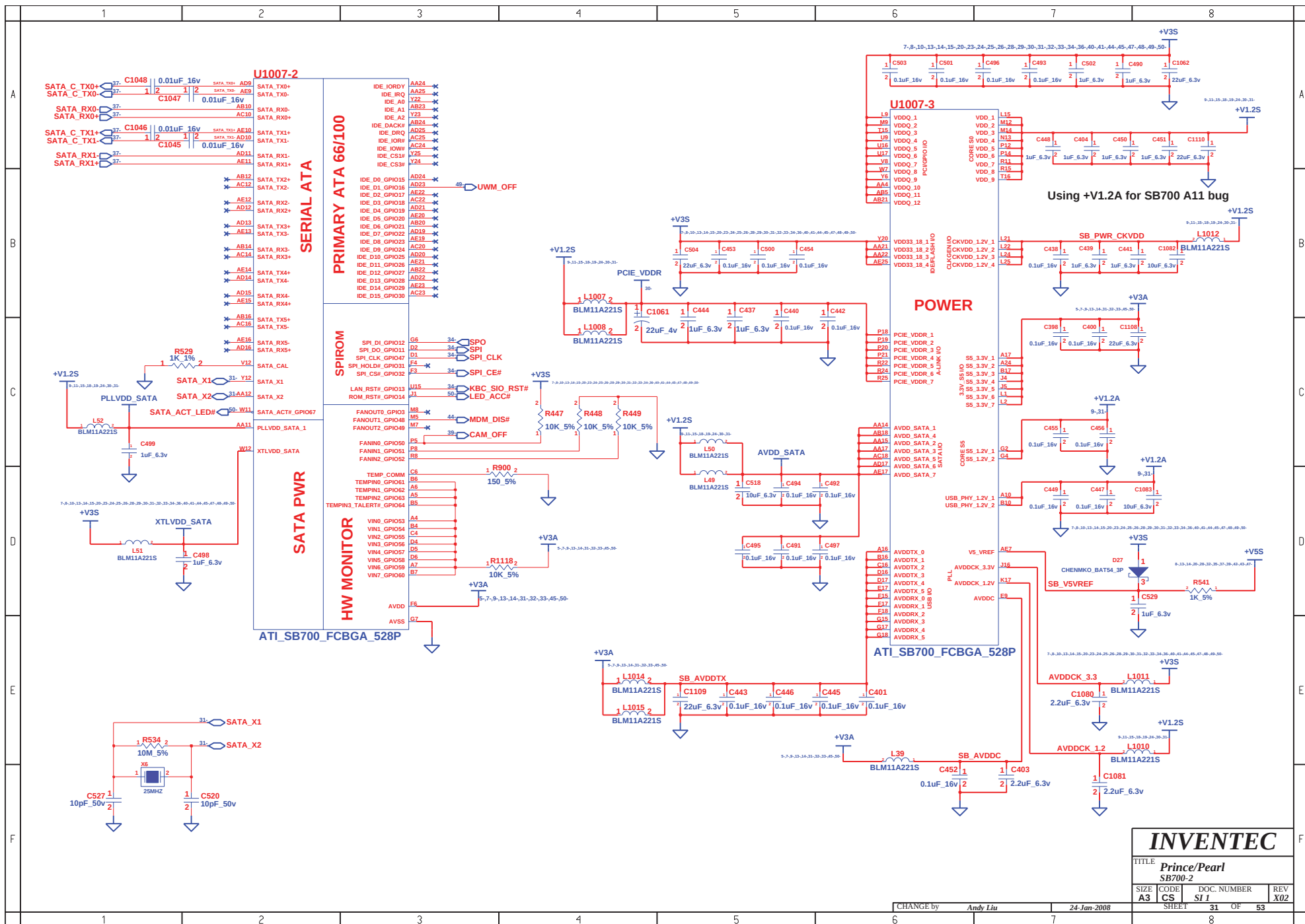
**INVENTEC**

|              |      |             |     |
|--------------|------|-------------|-----|
| TITLE        |      |             |     |
| Prince/Pearl |      |             |     |
| LCD CONN     |      |             |     |
| SIZE         | CODE | DOC. NUMBER | REV |
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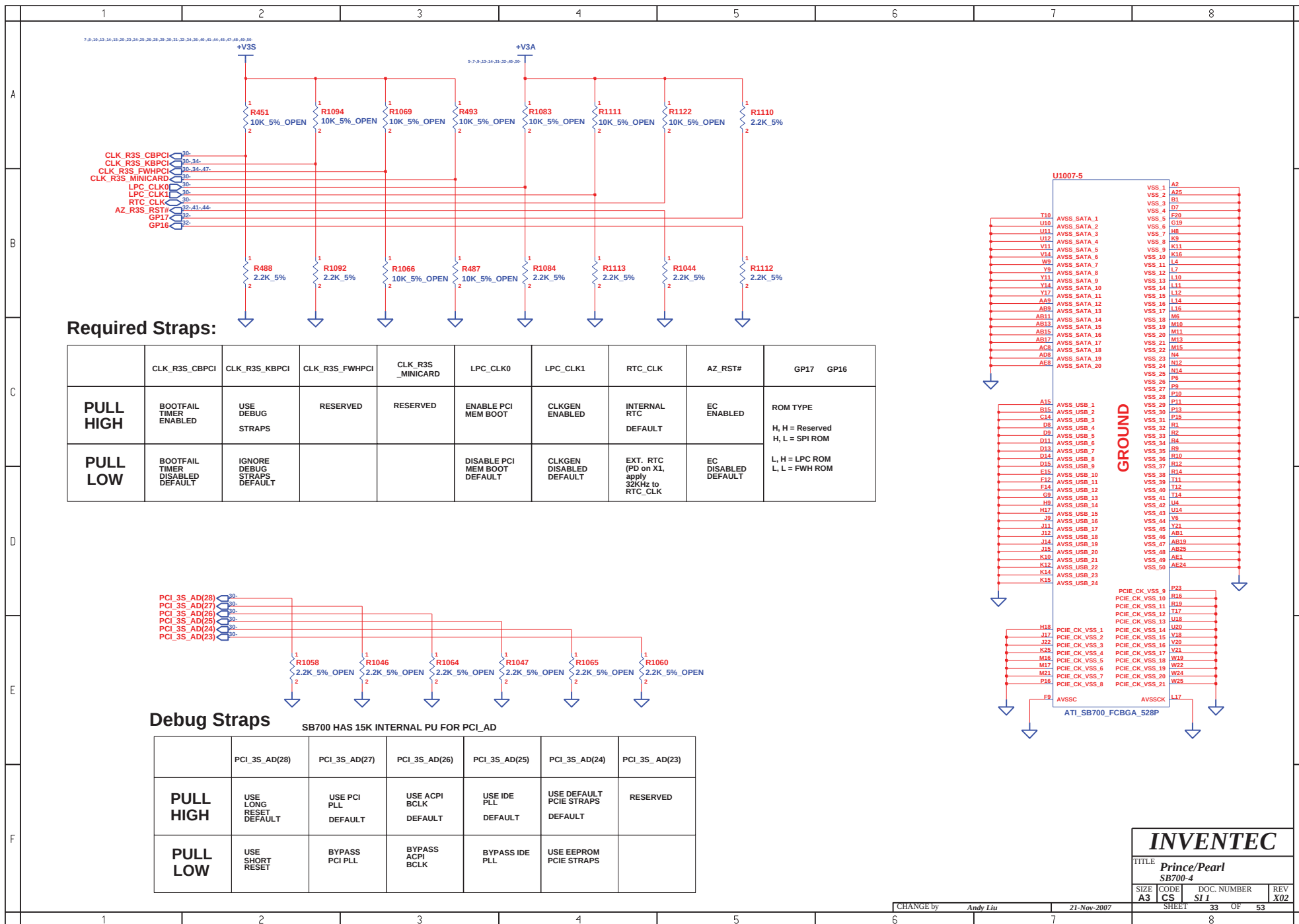
CHANGE by Andy Liu 19-Dec-2007

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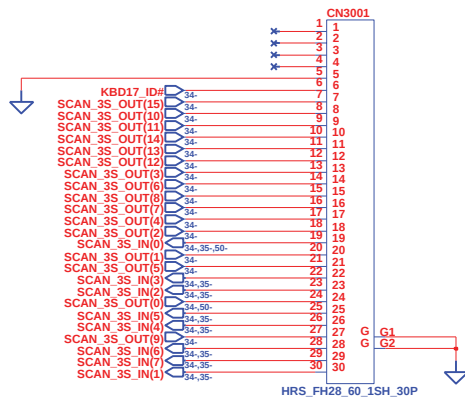




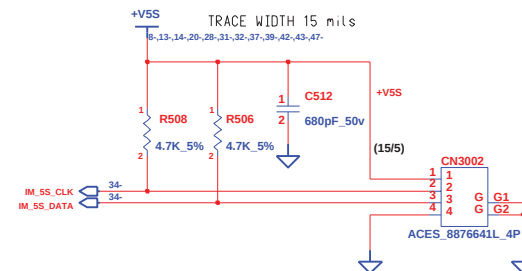




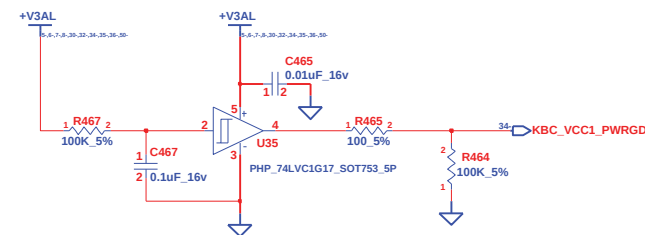
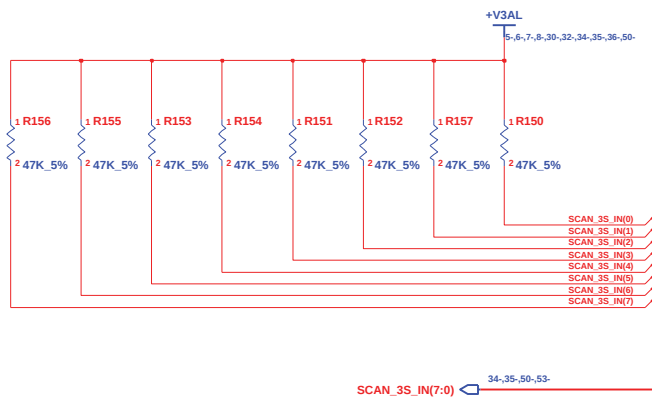




KEYBOARD CONN

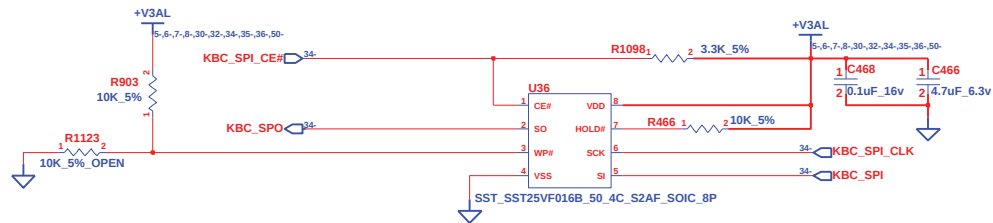


TOUCH PAD CNTR

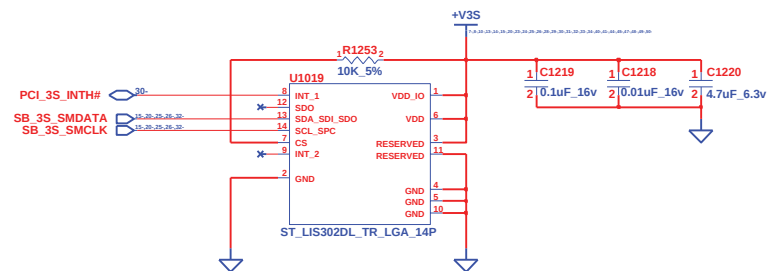


U35 should be placed close to U39.

| INVENTEC                      |         |                  |         |
|-------------------------------|---------|------------------|---------|
| TITLE Prince/Pearl KB&TP CONN |         |                  |         |
| SIZE A3                       | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| CHANGE by Andy Liu            |         | 23-Jan-2008      |         |
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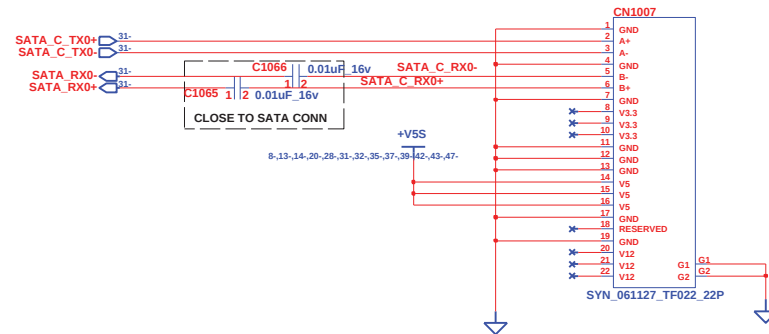


## SPI Flash

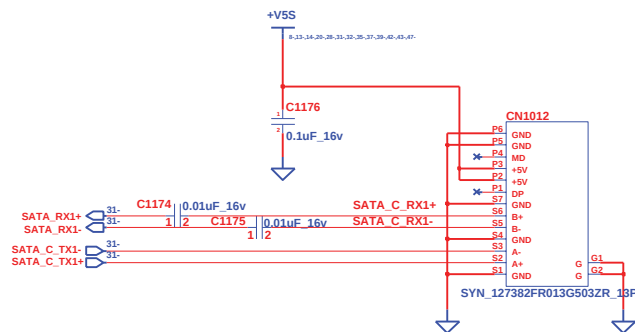


## Accelerometer

| INVENTEC            |         |                  |         |
|---------------------|---------|------------------|---------|
| TITLE Prince/Pearl  |         |                  |         |
| SPI & ACCELEROMETER |         |                  |         |
| SIZE A3             | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| CHANGE by Andy Liu  |         | 28-Jun-2008      |         |
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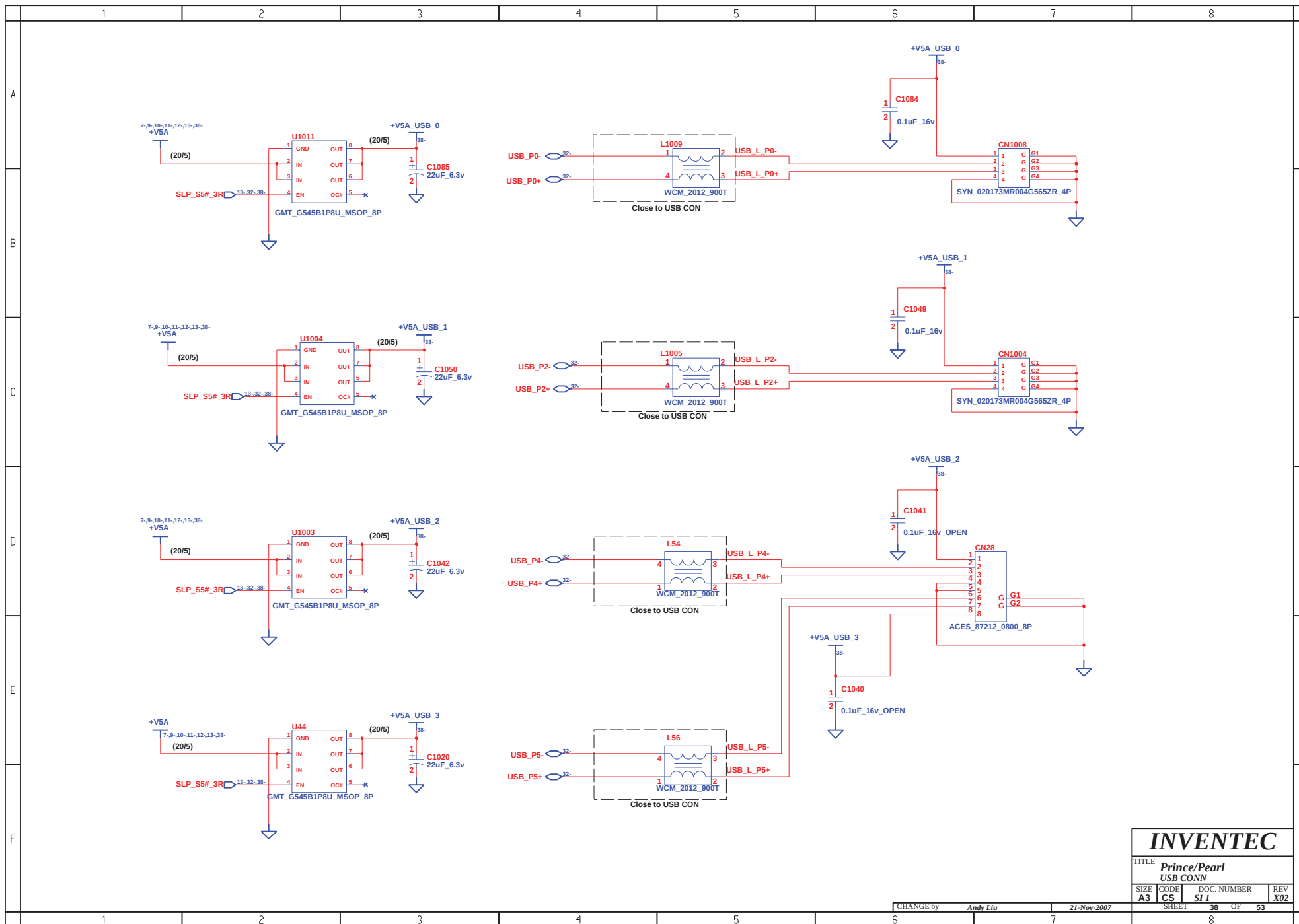


## HDD CONNECTOR



## ODD SATA CONNECTOR

| INVENTEC                                |            |                     |            |
|-----------------------------------------|------------|---------------------|------------|
| TITLE<br>Prince/Pearl<br>HDD & ODD CONN |            |                     |            |
| SIZE<br>A3                              | CODE<br>CS | DOC. NUMBER<br>SI 1 | REV<br>X02 |
| CHANGE by<br>Andy Liu                   |            | 21-Nov-2007         |            |
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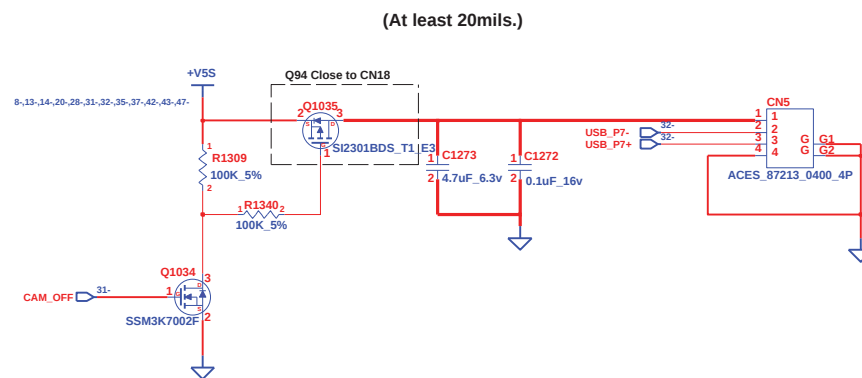
**INVENTEC**

TITLE  
**Prince/Pearl**  
USB CONN

|                   |                   |                            |                   |
|-------------------|-------------------|----------------------------|-------------------|
| SIZE<br><b>A3</b> | CODE<br><b>CS</b> | DOC. NUMBER<br><b>SI 1</b> | REV<br><b>X02</b> |
|-------------------|-------------------|----------------------------|-------------------|

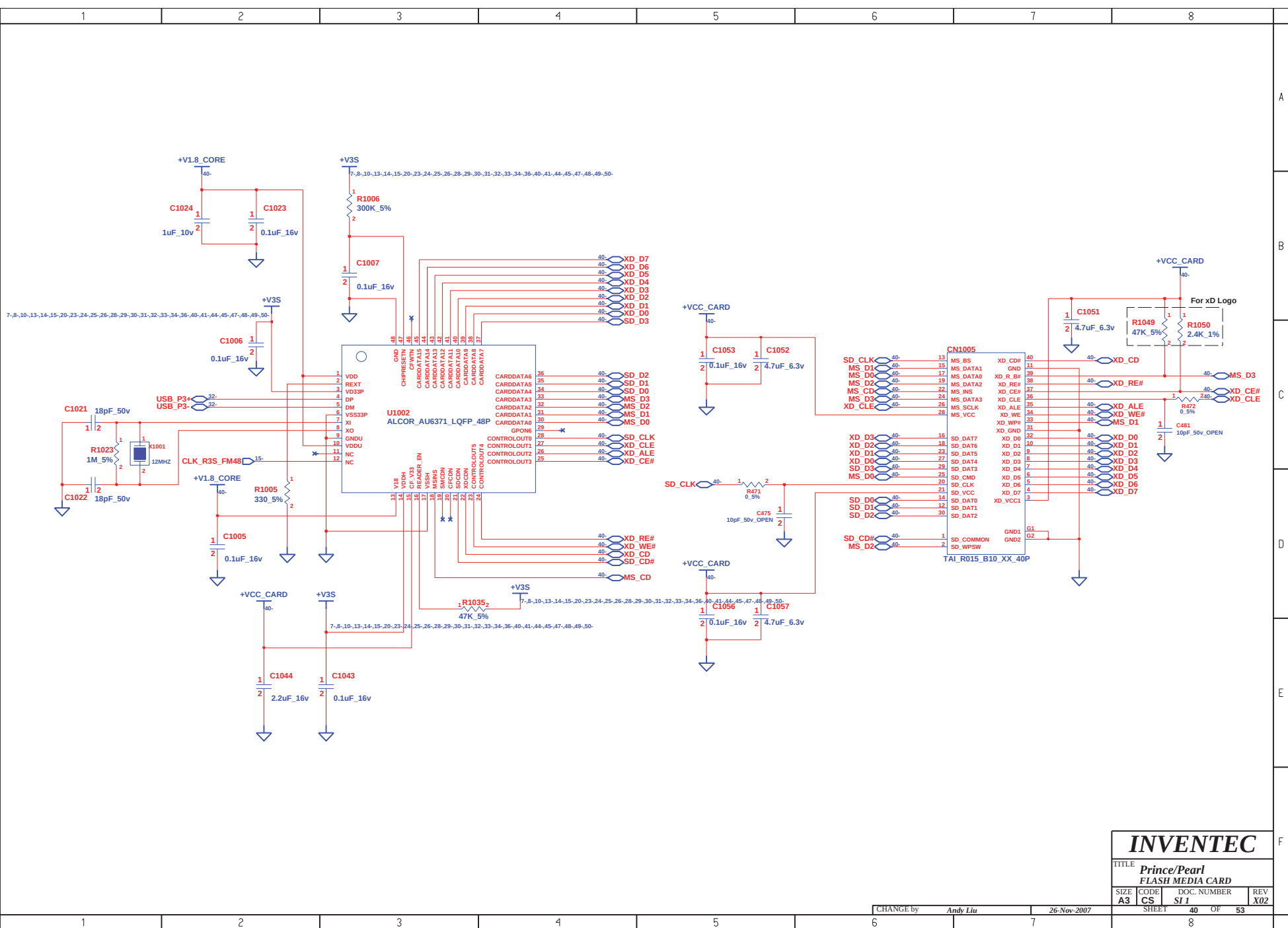
CHANGE by *Andy Liu* 21-Nov-2007

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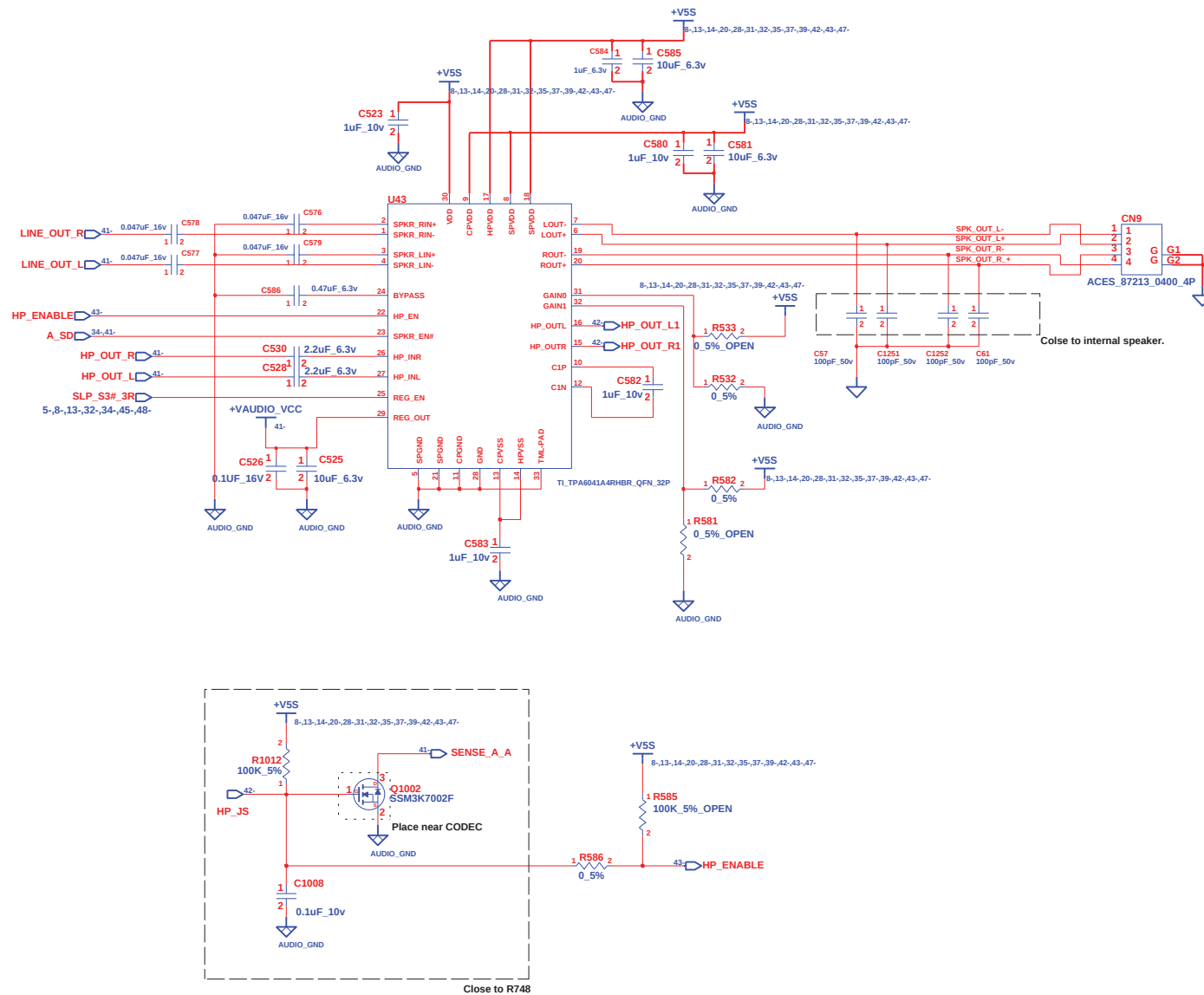
## USB WEBCAM CONNECTOR

| INVENTEC                           |         |                  |         |
|------------------------------------|---------|------------------|---------|
| TITLE Prince/Pearl USB WEBCAM CONN |         |                  |         |
| SIZE A3                            | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| CHANGE by Andy Liu                 |         | 26-Nov-2007      |         |
| SHEET 39                           |         | OF 53            |         |
| 1                                  |         | 8                |         |







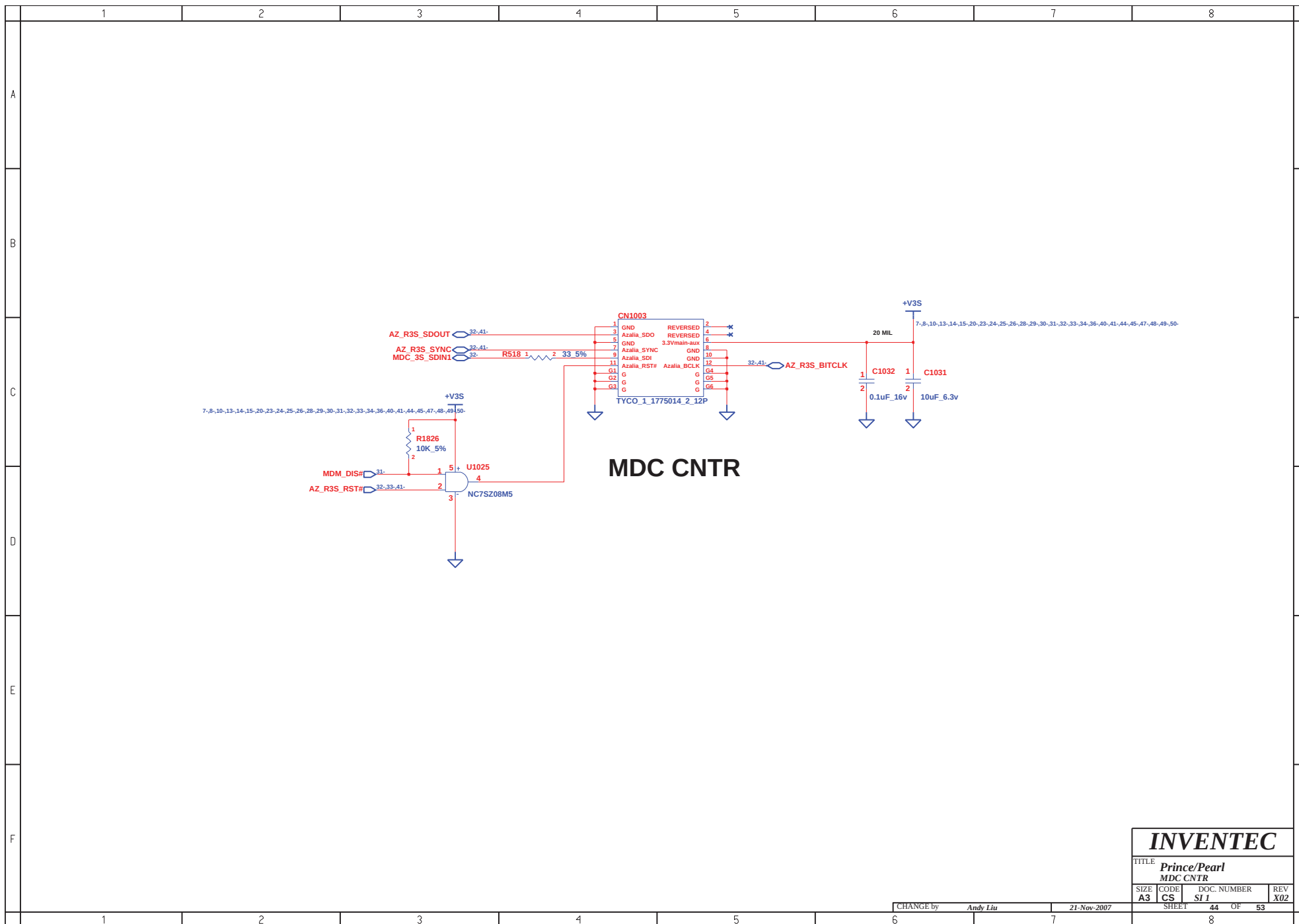


Internal Speaker

Close to internal speaker.

Close to R748

| INVENTEC                                  |            |                     |            |
|-------------------------------------------|------------|---------------------|------------|
| TITLE Prince/Pearl<br>AUDIO AMP & HP JACK |            |                     |            |
| SIZE<br>A3                                | CODE<br>CS | DOC. NUMBER<br>SI 1 | REV<br>X02 |
| CHANGE by Andy Liu                        |            | 21-Nov-2007         |            |
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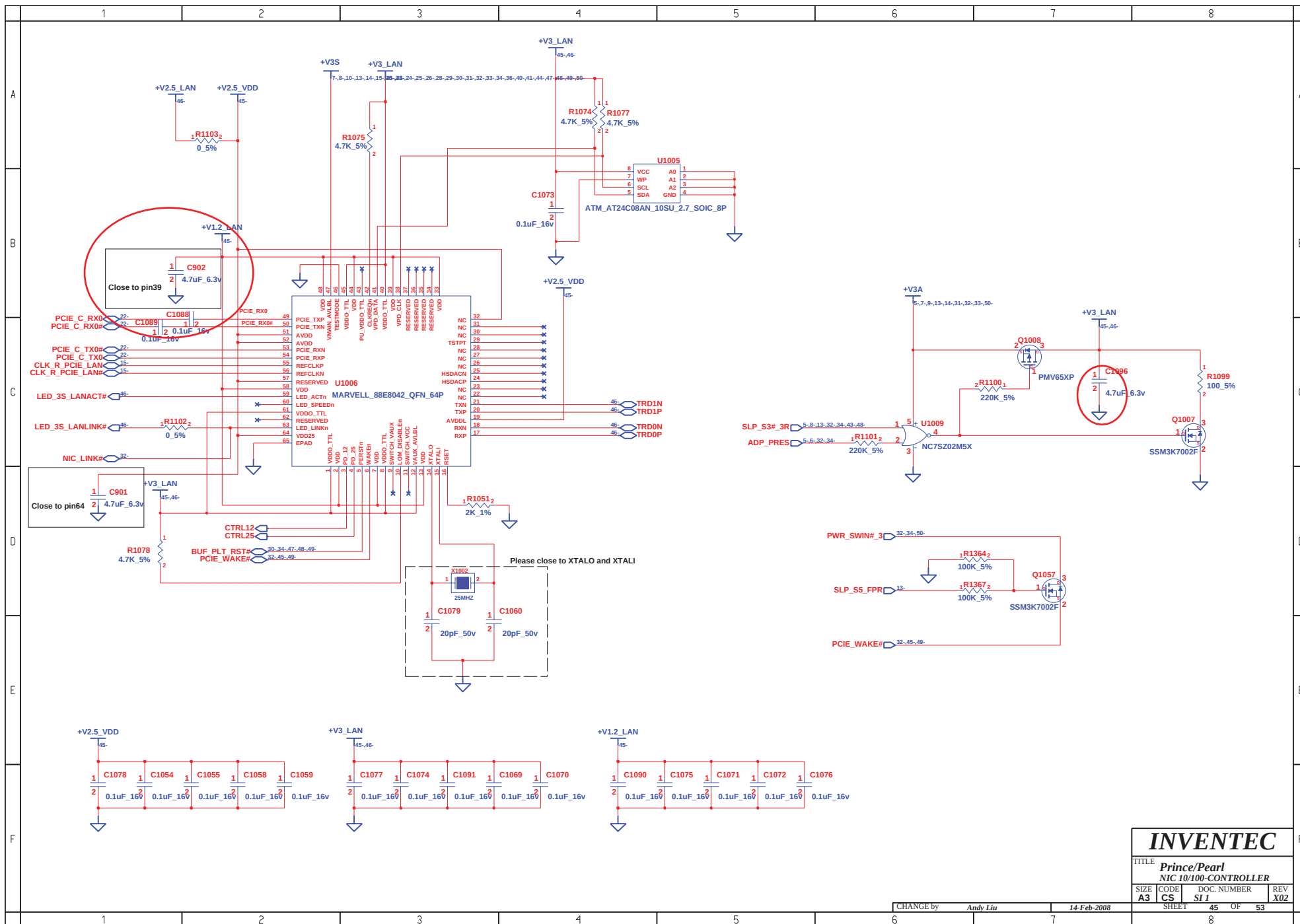
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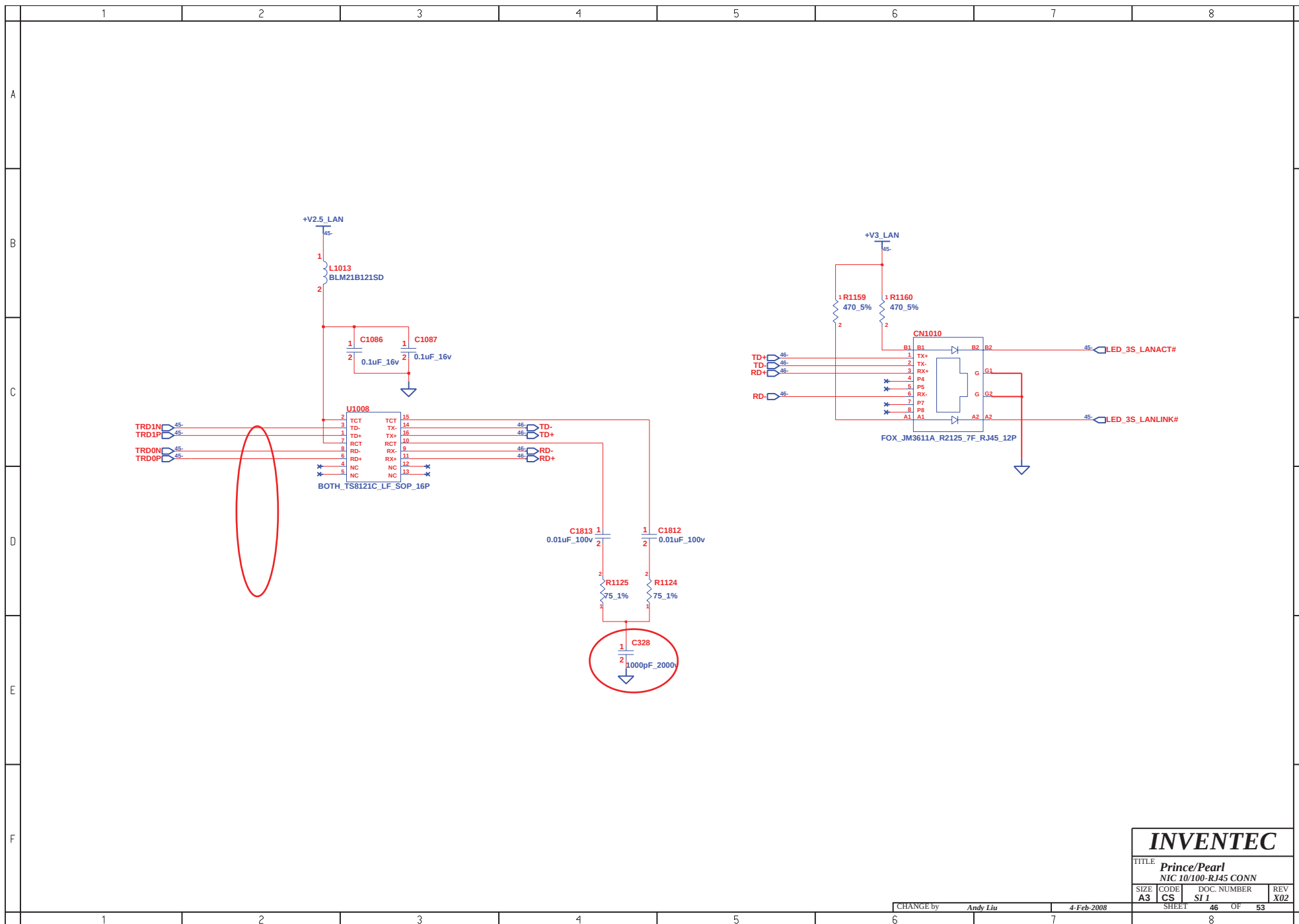
TITLE  
**Prince/Pearl**  
**MDC CNTR**

|                   |                   |                            |                   |
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| SIZE<br><b>A3</b> | CODE<br><b>CS</b> | DOC. NUMBER<br><b>SI 1</b> | REV<br><b>X02</b> |
|-------------------|-------------------|----------------------------|-------------------|

CHANGE by *Andy Liu* 21-Nov-2007

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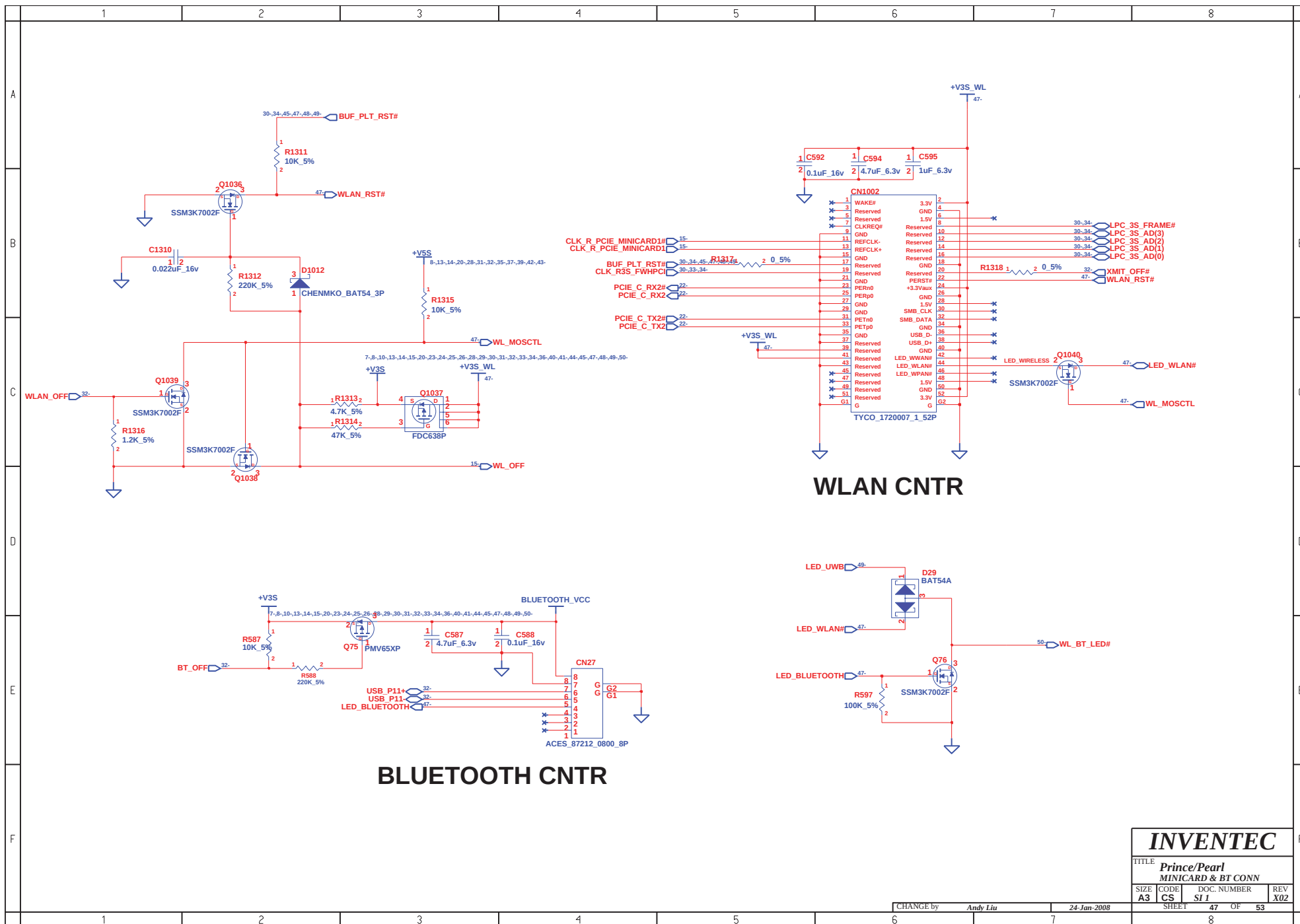
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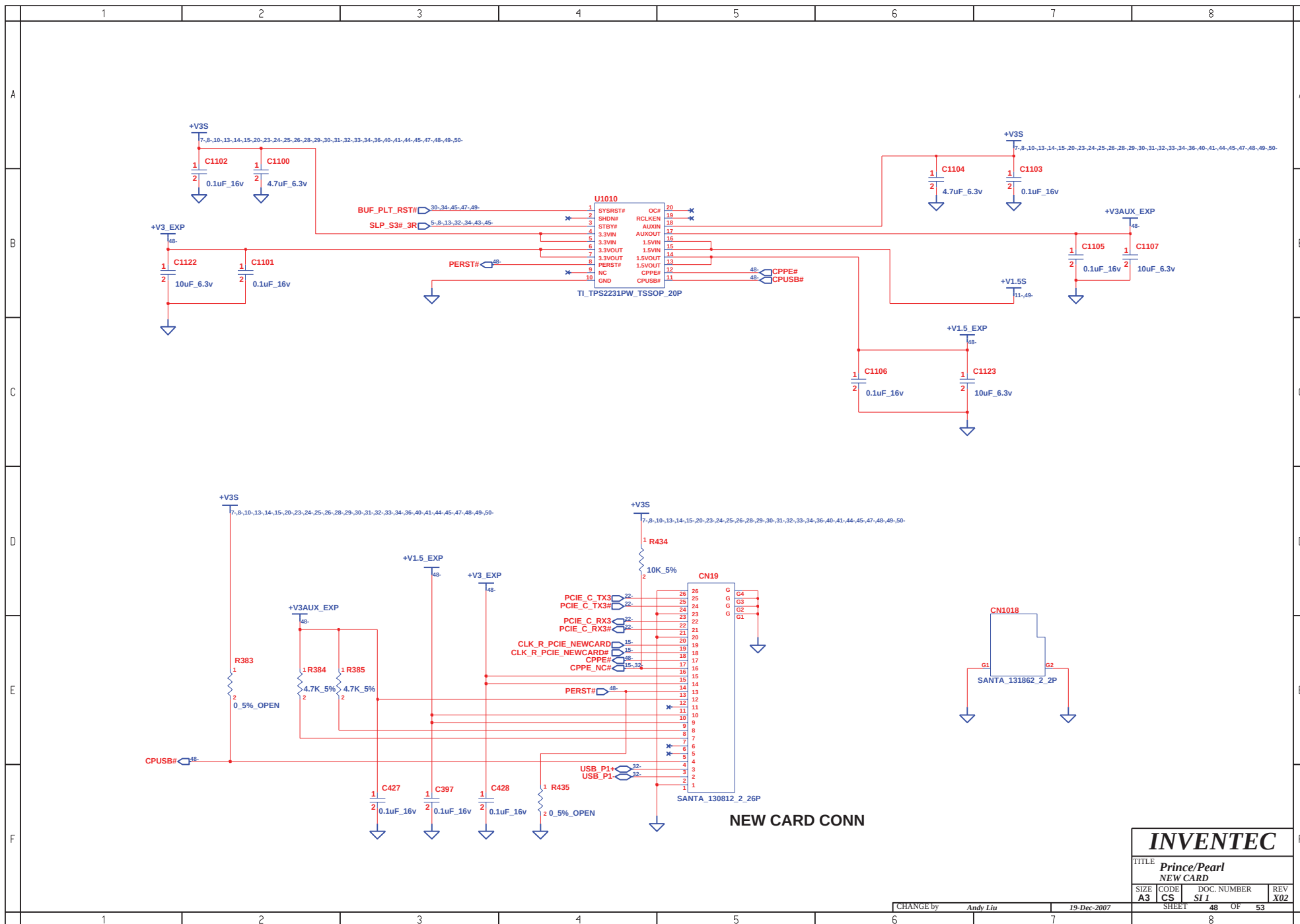
TITLE  
**Prince/Pearl**  
NIC 10/100-RJ45 CONN

|                   |                   |                           |                   |
|-------------------|-------------------|---------------------------|-------------------|
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|-------------------|-------------------|---------------------------|-------------------|

CHANGE by **Andy Liu** 4-Feb-2008

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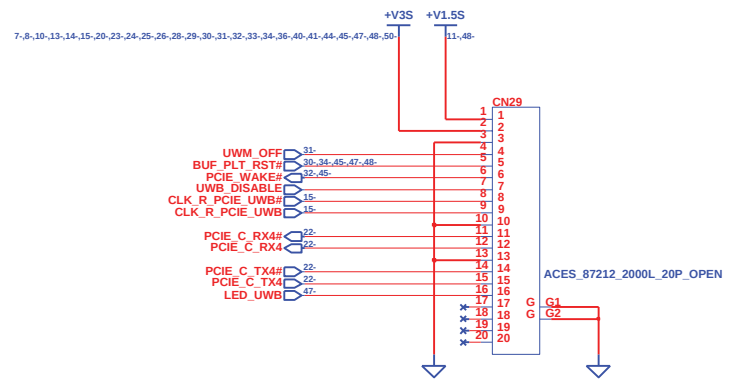
**INVENTEC**

TITLE  
**Prince/Pearl  
NEW CARD**

SIZE CODE DOC. NUMBER REV  
**A3 CS S11**

CHANGE by **Andy Liu** 19-Dec-2007

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# UWB CONN

| INVENTEC                    |         |                 |         |
|-----------------------------|---------|-----------------|---------|
| TITLE Prince/Pearl UWB CONN |         |                 |         |
| SIZE A3                     | CODE CS | DOC. NUMBER S11 | REV X02 |
| CHANGE by Andy Liu          |         | 21-Nov-2007     |         |
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