## P73-A00-X01

Created SCH from P78-X16 for I/O Netlist only

## P73-A00-X02

CREATED NX16 MEMORY, DECOUPLING FROM P78

### P73-A00-X03

ADDED MEM & CORE FROM P70 PS FOR ISL6529 SAA7114 DECAPS ADDED AND CHANGED TO 0402

## P73-A00-X04

PCB Footprint for RAM added

### P73-A00-X05

## P73-A00-X06

PCB Footprint for Inductor, Stacked DB15, ISL6529 added PCB Footprint for L305, L307, L308, L316-L324 changed to 0603 from 0805. Added X-Comp R750, R751.

## P73-A00-X07

TV-XTAL should be 18pf CL. Each memory with separate clock

## P73-A00-X08

U700-Parallel ROM and C700 decap Removed for space

## P73-A00-X09

0603 to 0402 Package Changes for 49 components

## P73-A00-X10

Design Review Updates

0603 to 0402 Package Changes for 33 components

0805 to 0603 Package Changes for 17 components

0402 to 0603 Package Changes for 10 components

Removed 25 components

## P73-A00-X11

Swaps in Memory termination RN201, RN203, RN205, RN207

## P73-A00-X12

C606, C615 TH replacements, Removed for want of space.

Memory bus swaps on 1/11/02-Swap 2 P73-A00-X14

## Memory bus swaps on 1/12/02-Swap 3

P73-A00-X15

Memory bus byte swaps as per NV17-Ball  $\,$ 

Memory bus byte and bit swaps as per layout

TV Filter moved to VGA2 page with more routing notes

## P73-A00-X17

The C397, C311, C318 changed to 0603 from 0402 for two trace routing near GPU break out. P300-2 Mounting pins removed from CGND

## P73-A00-X18

Added X Components C824 to C830 to FBVDDQ

## PAGE OVERVIEW

- 1 top (this) page
- 2 1. AGP interface, core decoupling
- 3 2.a NV17 Frame Buffer
- 4 3.a Dual DAC, 1st VGA
- 5 3.b Dual DAC, 2nd VGA
- 6. 3.c TMDS NV17
- 7 4.a Frame Buffer 0..31
- 8 4.b Frame Buffer 32...63
- 9 5. TV-out, video capture, stereo
- 10 6. Power supply
- 11 7. BIOS, Strapping

# P73, NV17, 4/8Mx16 DDR, 32/64MB, Dual RGB, TV-out, Video Capture, AGP4X

PCI DEVICE ID = 0X172 FOR GF4-MX420-XX.



Added X Components C831 to C832 to FBVDDQ

R610, R612 for FBVDDQ re-fixed to have <5K for Rfb

## P73-A00-X20- X-Rel Candidate

Clean-up for Agile upload Memory de-coupling values modified as per layout.

## P73-A00-X21- ECO-3893

Q600 Should be FET istead of BJT

### P73-A00-X22-

Corrected NV17-S sku in the table in this page

### P73-A01-X01

The RED and GREEN signal to TV filter interchanged. Corrected by swapping CVBS\_YOUT

## P73-A01-X02

Corrected by swapping CVBS YOUT and COUT at DIN

Type 3 Compensation Values for ISL6529 changed

R614---NS---8.06K

C618---33nF---70nF

R611---16.2K---6.65K

C619---33nF----1.8nF

AGPSTOP to 3.3V R616 -47R inseries to 12V for ISL6529 is too high, changed to 4.7R

R616 -4.7R inseries to 12V for ISL6529 is changed to OR

R624 - Added 2.2R inseries to 5V for ISL6529.

ISL6529 Compensation Res to be Type 2 with

## P73-A01-X04-For X-Rel

R626 2.2R, C617 2200PF

The Type 2 Compensation works better than Type 3 Compensation. C616. R614 No Stuff, R614 Nostuff, C618 3300pf, R611 16.2K, C619 33pF, R616 0R Snubber values are

## P73-A01-X05-ECO4193

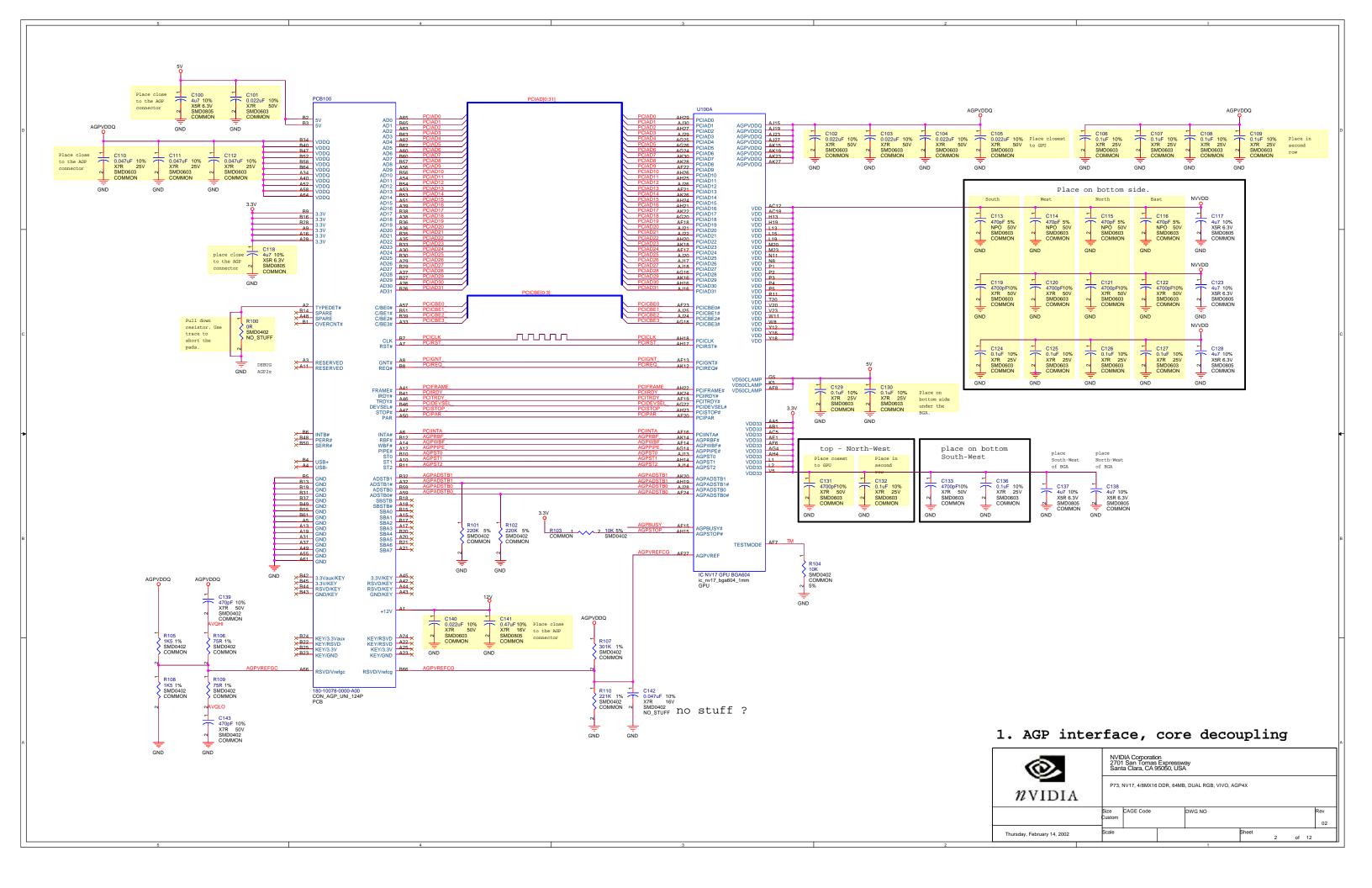
The Type 3 Compensation works better than Type 2 Compensation in the new layout with new values tried at Intersil. C616-47nF. R614-10R, C618 1000pf, R611-10K, C619 1500pF.

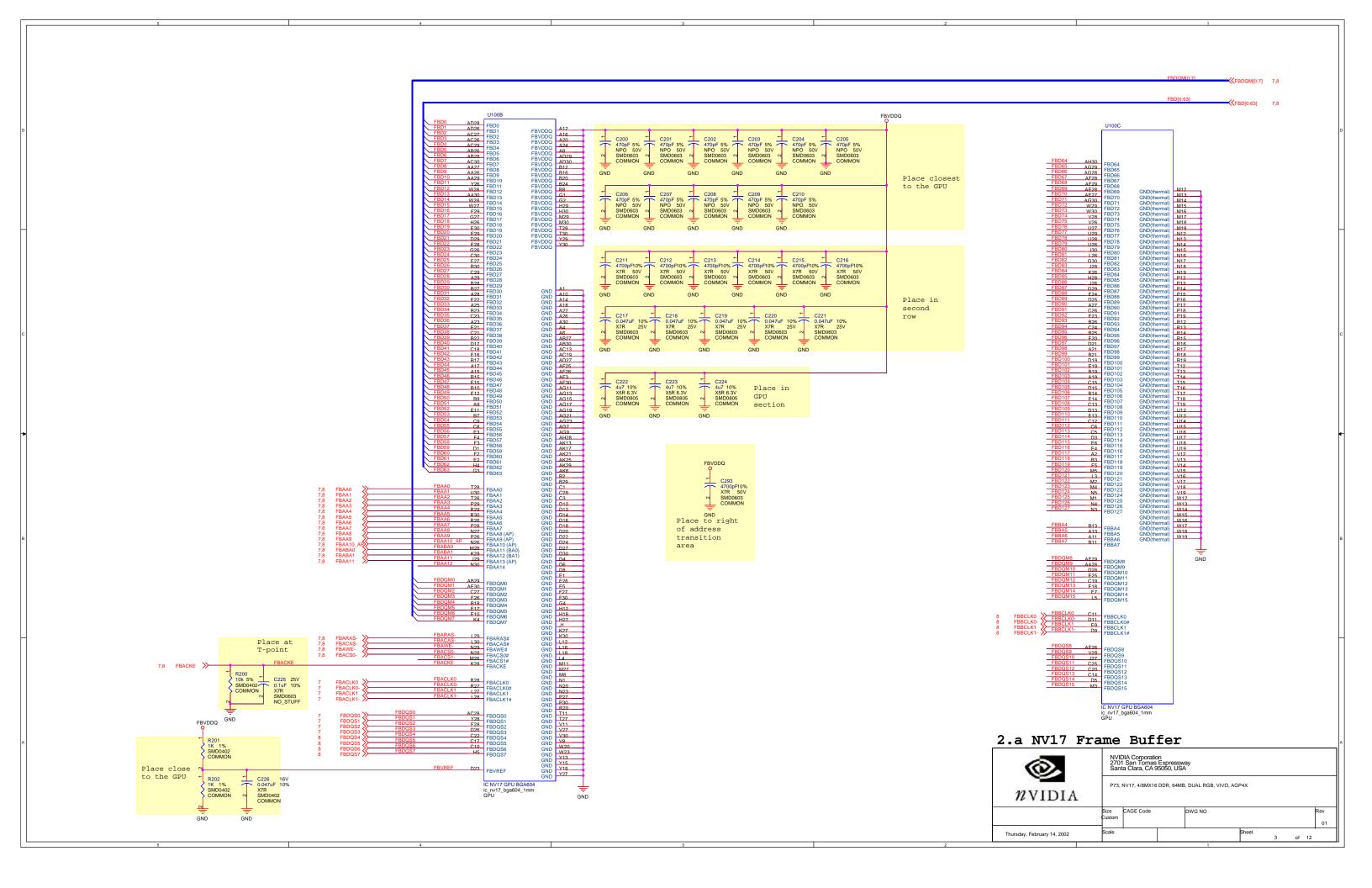
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DIN for TV Only
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stable 1117 linear regulator for A3.3V
nect A3.3V to 3.3V. No 1117 regulator.
1 Sync/I2C Clamping diodes
B Protection diodes on primary DAC outputs
2 Sync/I2C Clamping diodes
Protection diodes on secondary DAC outputs
CAP I2C/Video In Clamping diodes
Red/Green Clamping diodes
JONLY
TRAP OPTION-172H
TRAP OPTION-172H nory only

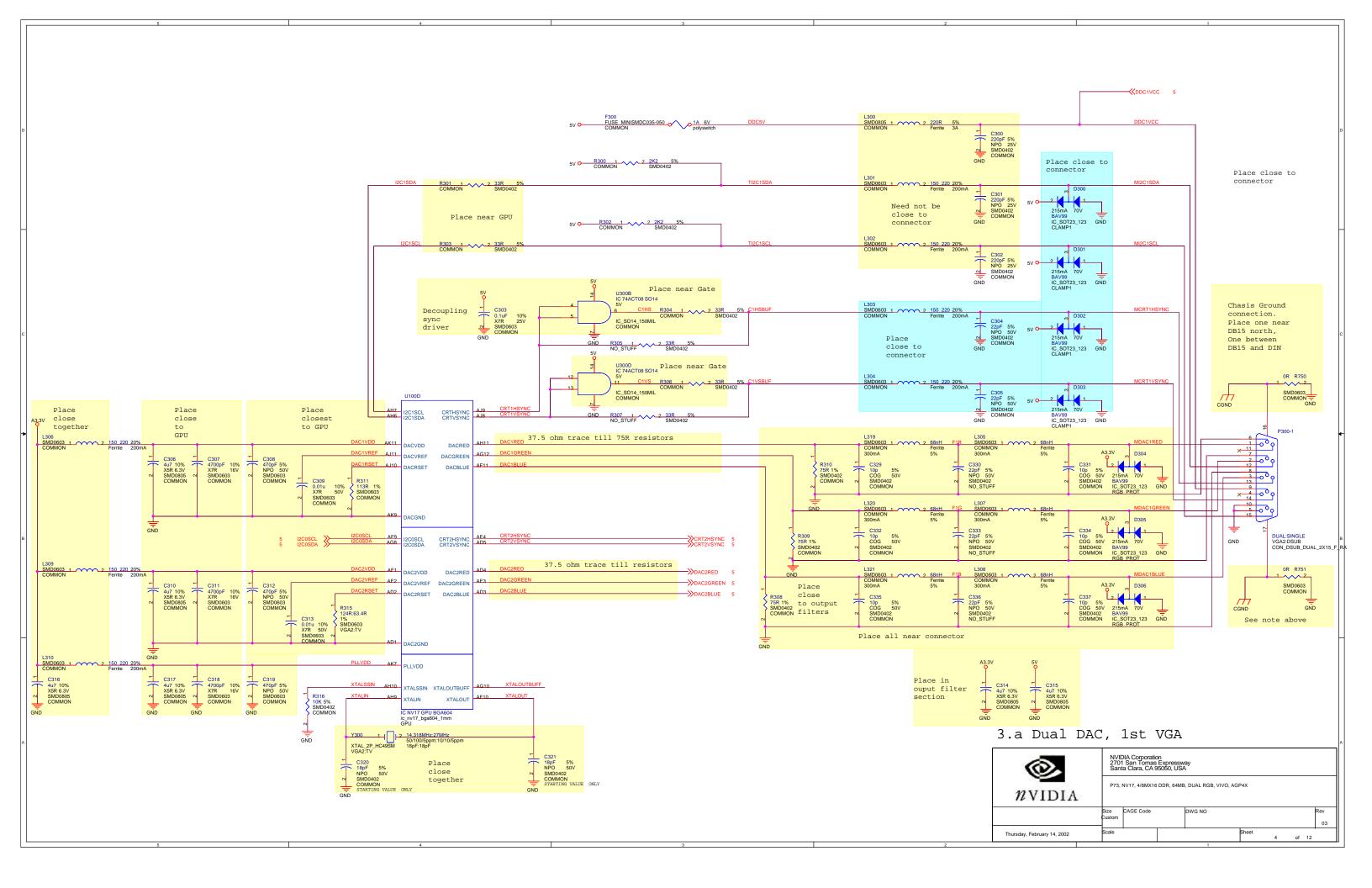
140-10073-0000-A01 602-10073-0000-A01

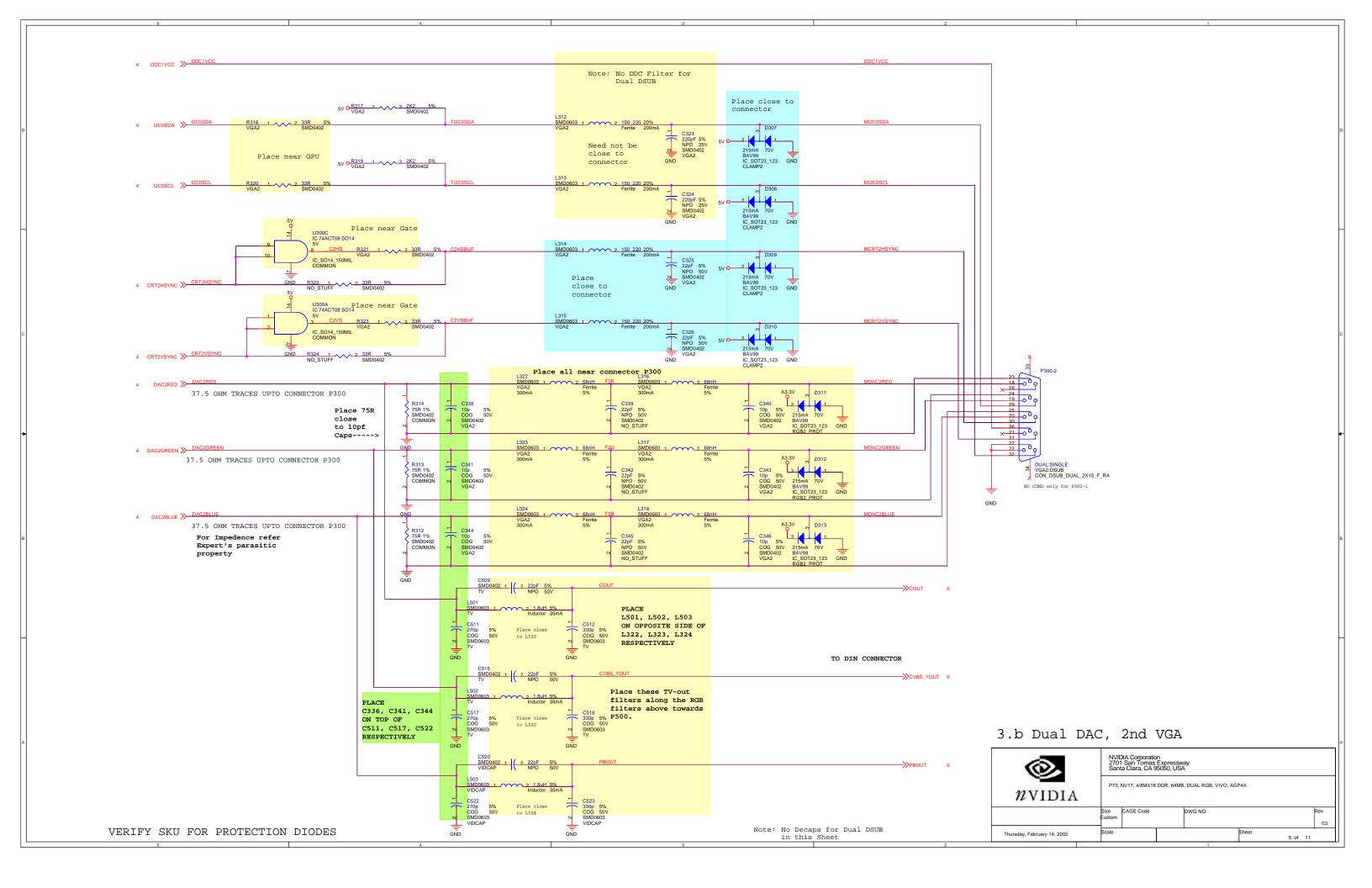


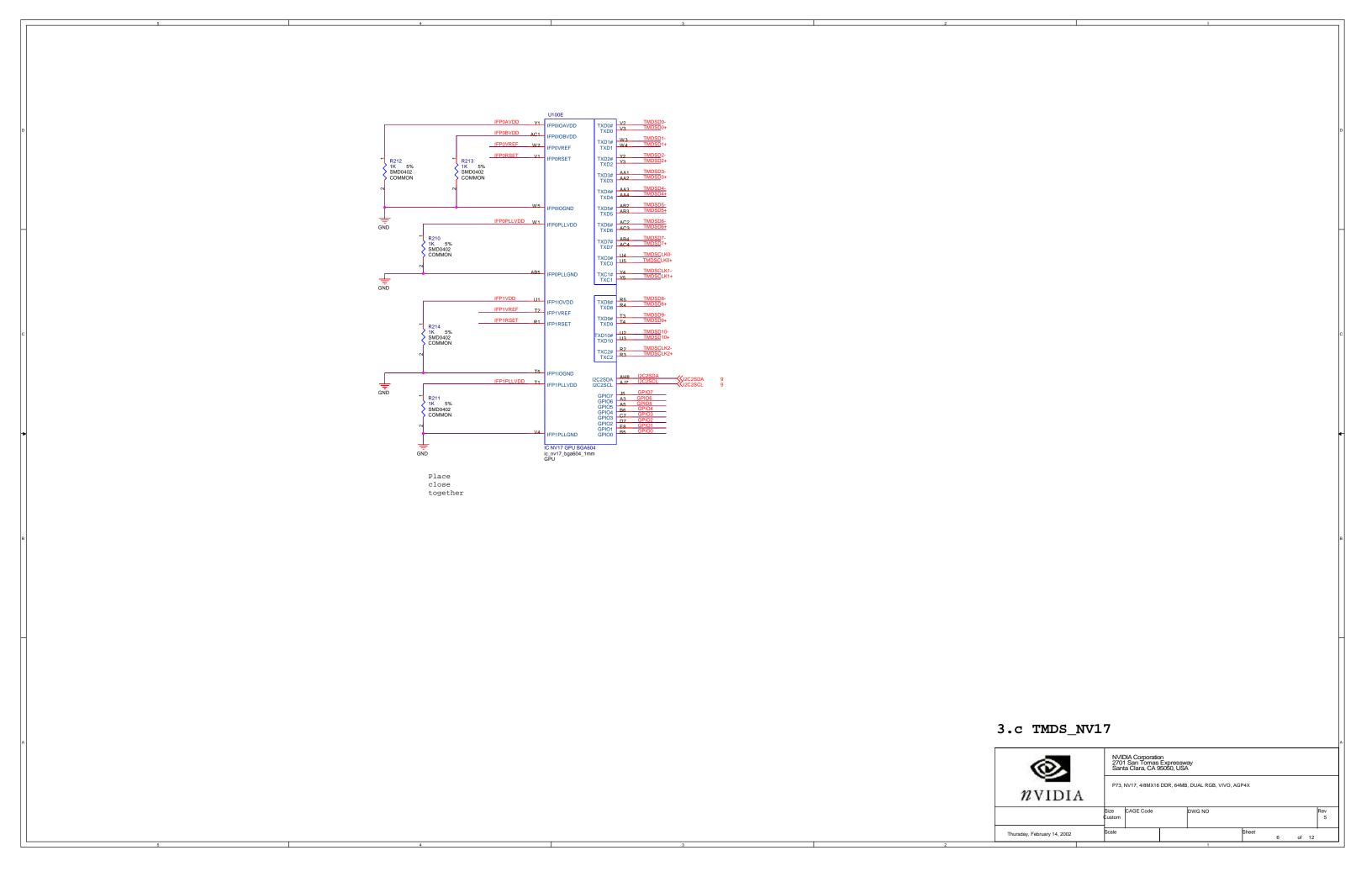
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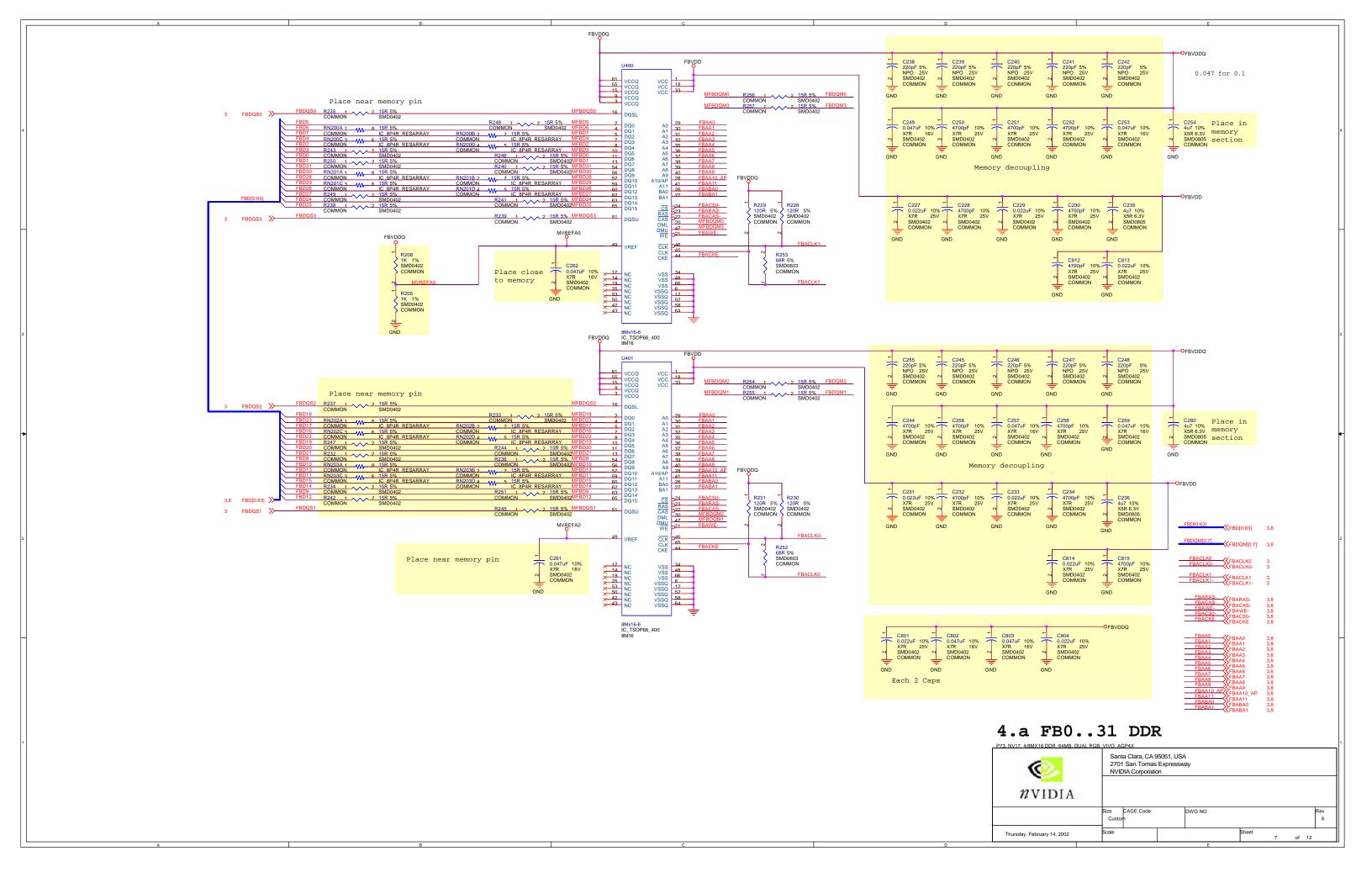


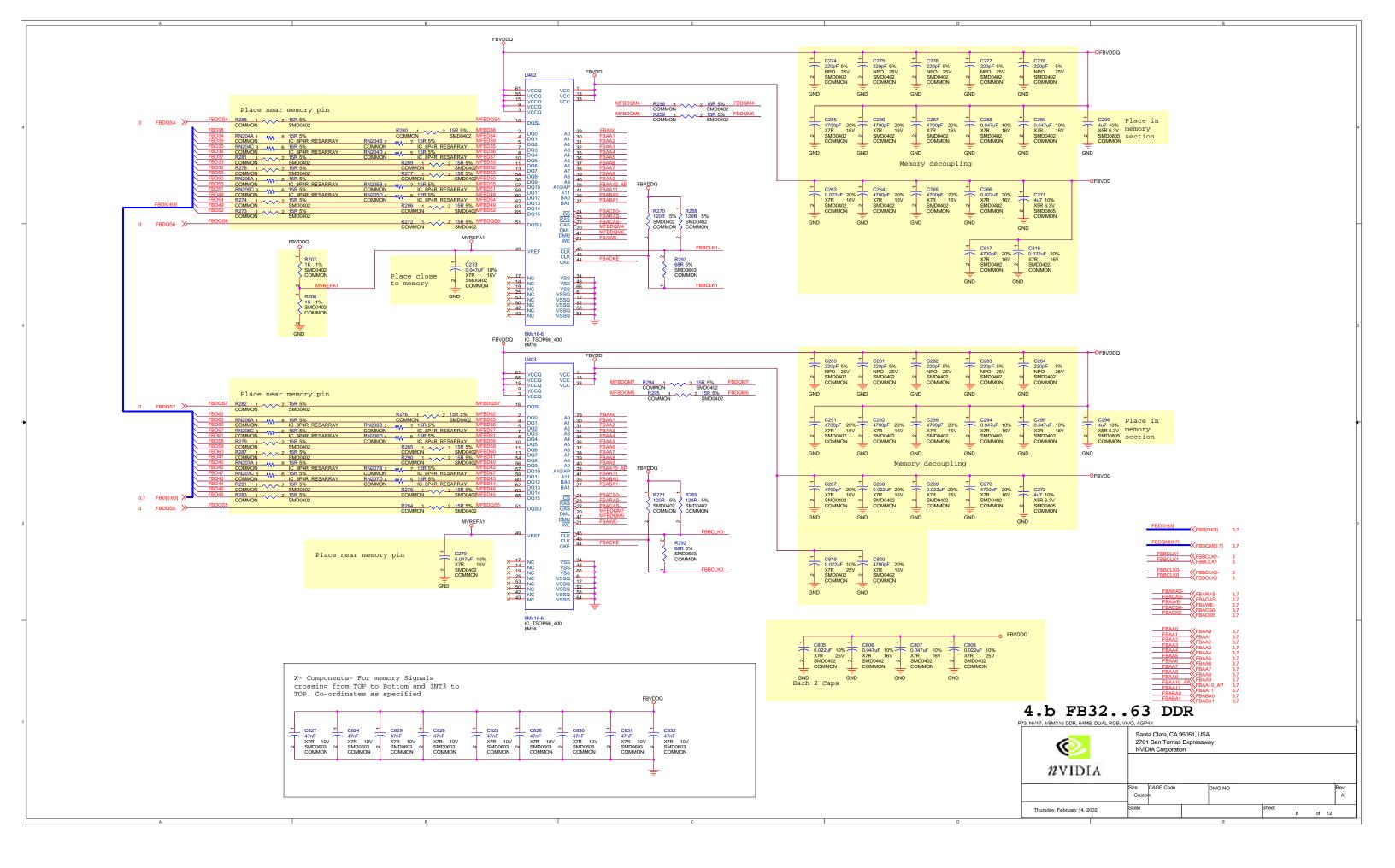


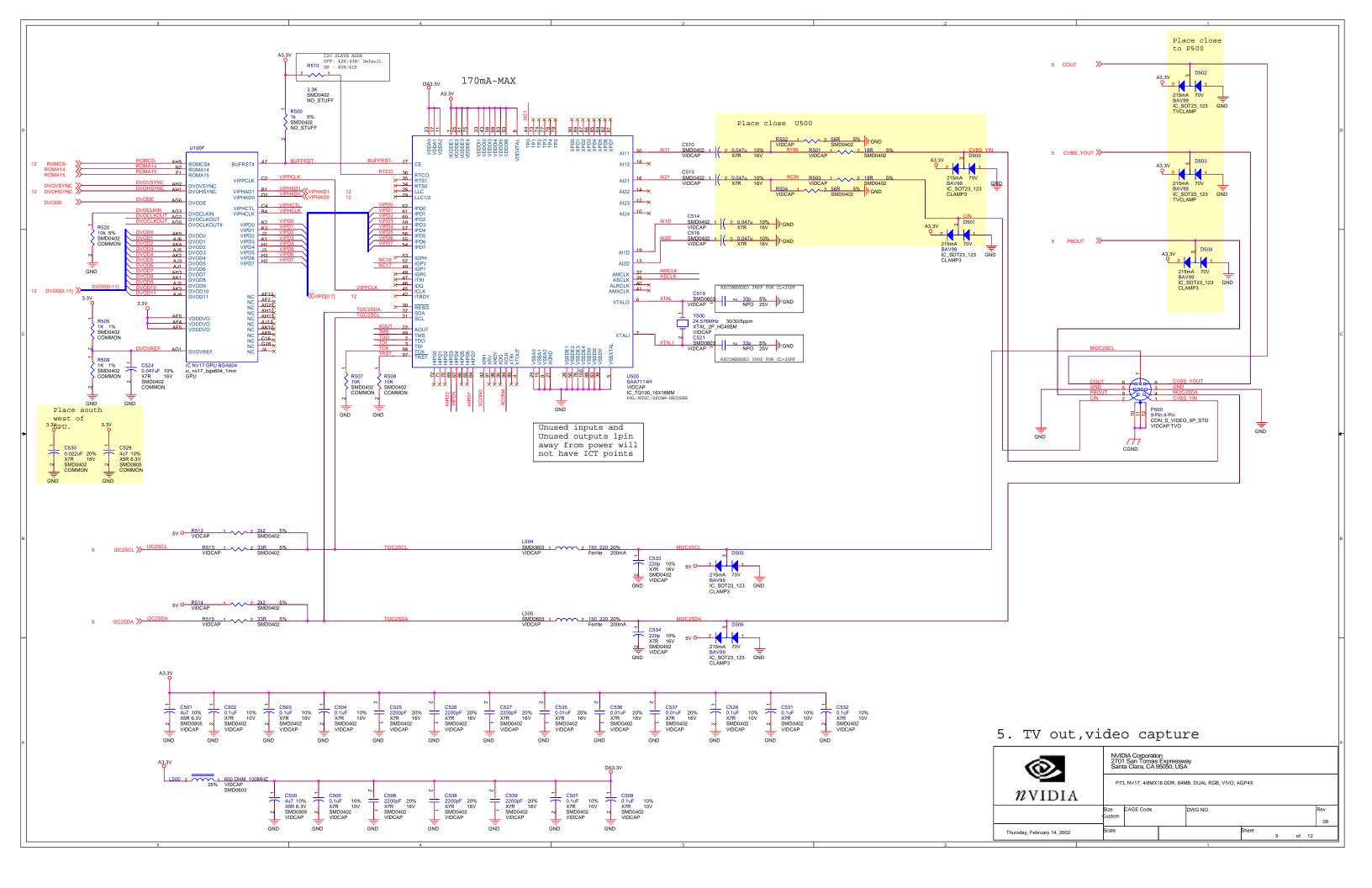


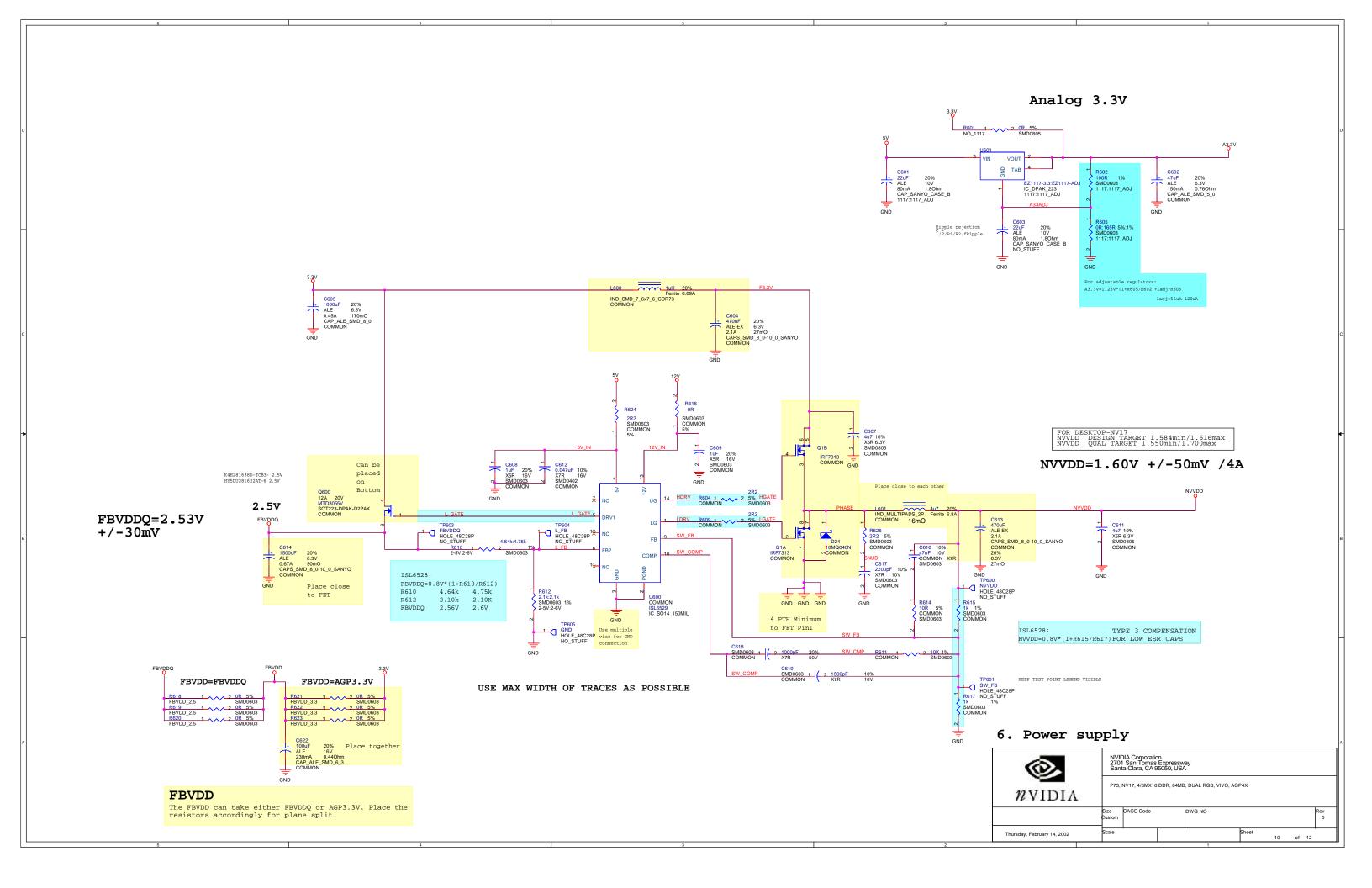


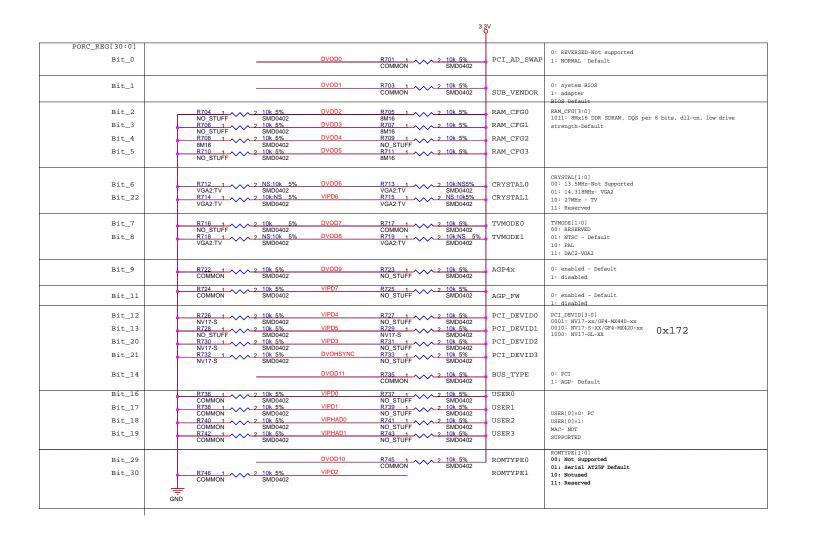


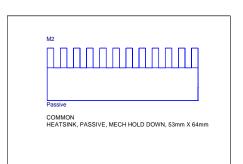


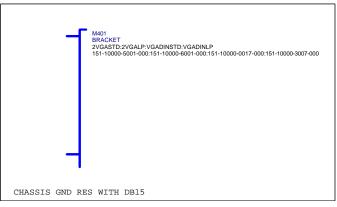


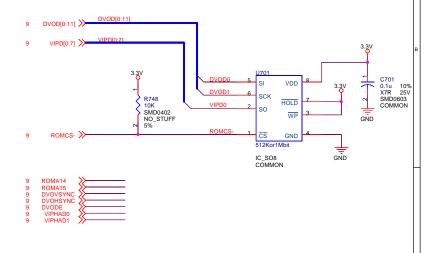












# 7. BIOS, Strapping, Mech

	NVIDIA Corporation 2701 San Tomas Expressway Santa Clara, CA 95050, USA									
$n_{\text{VIDIA}}$	P73, NV17, 4/8MX16 DDR, 64MB, DUAL RGB, VIVO, AGP4X									
	Size CA Custom			DWG NO					Rev 08	
Thursday, February 14, 2002	Scale				Sheet	12	of	12		