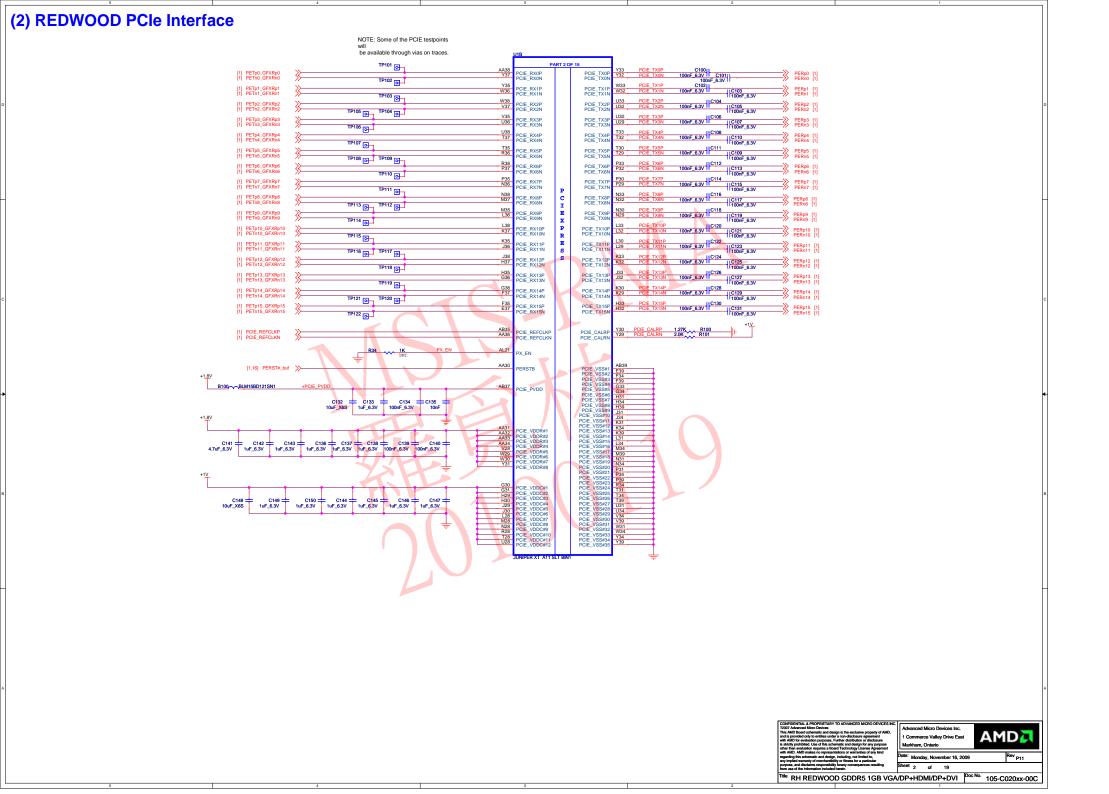
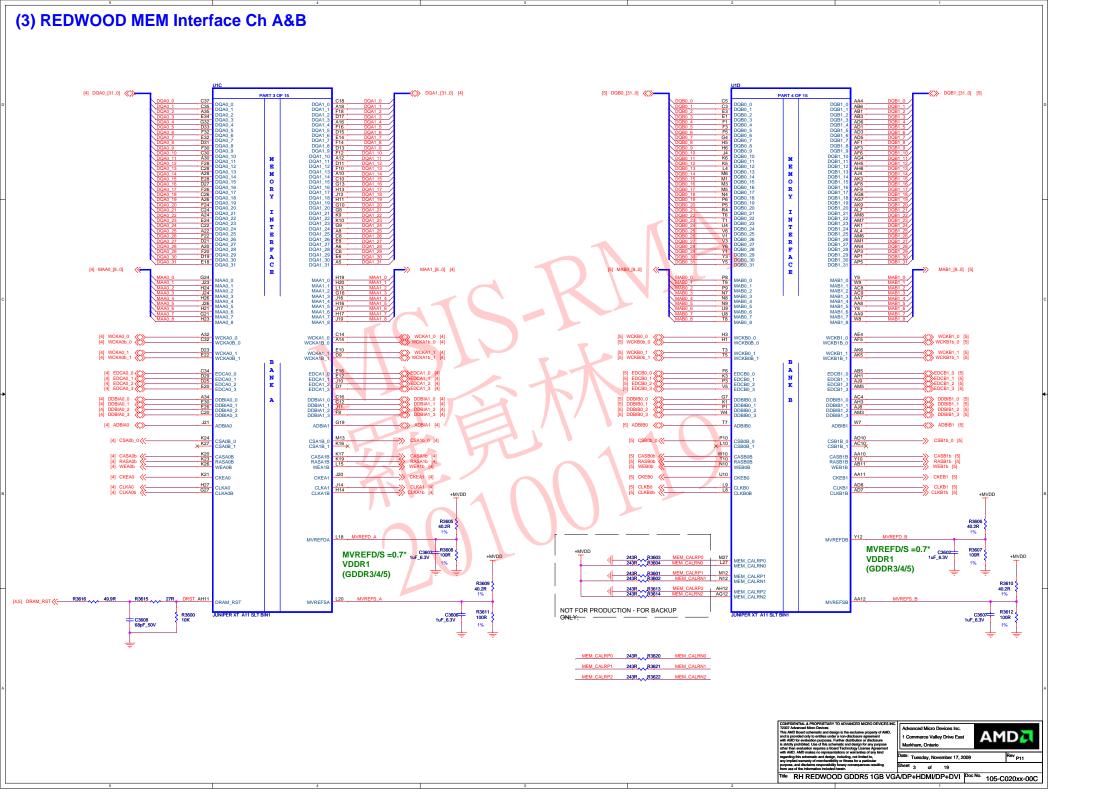
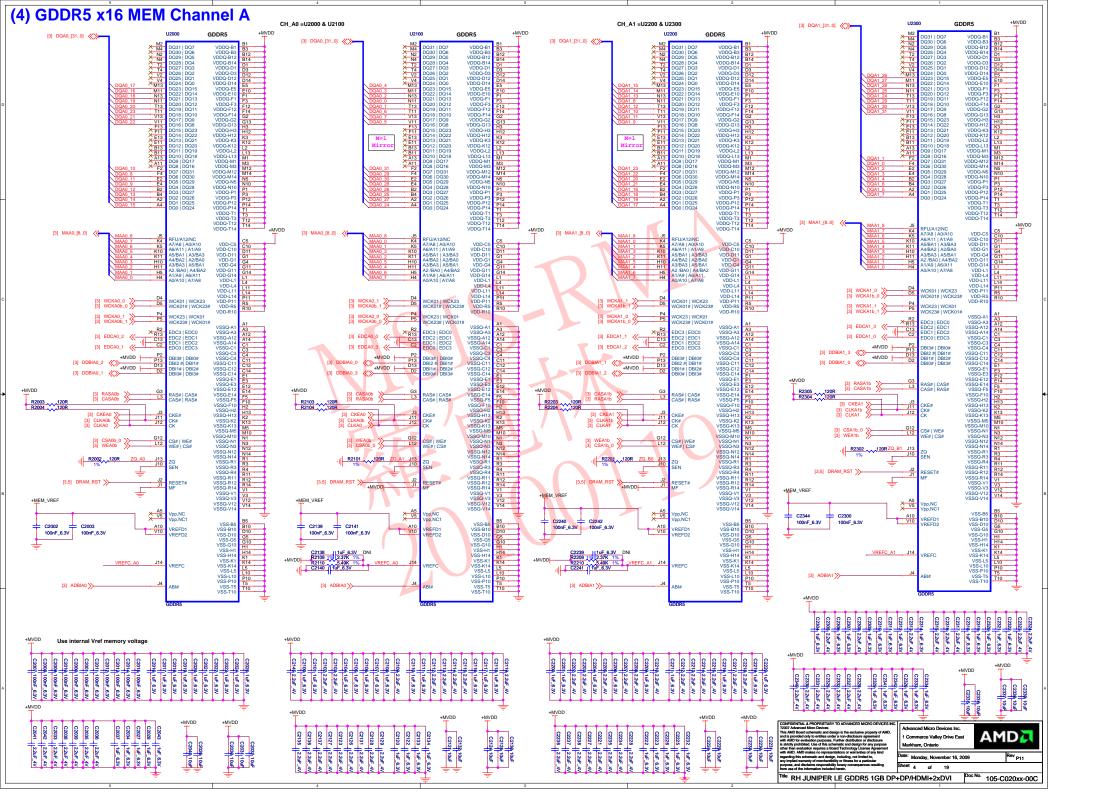
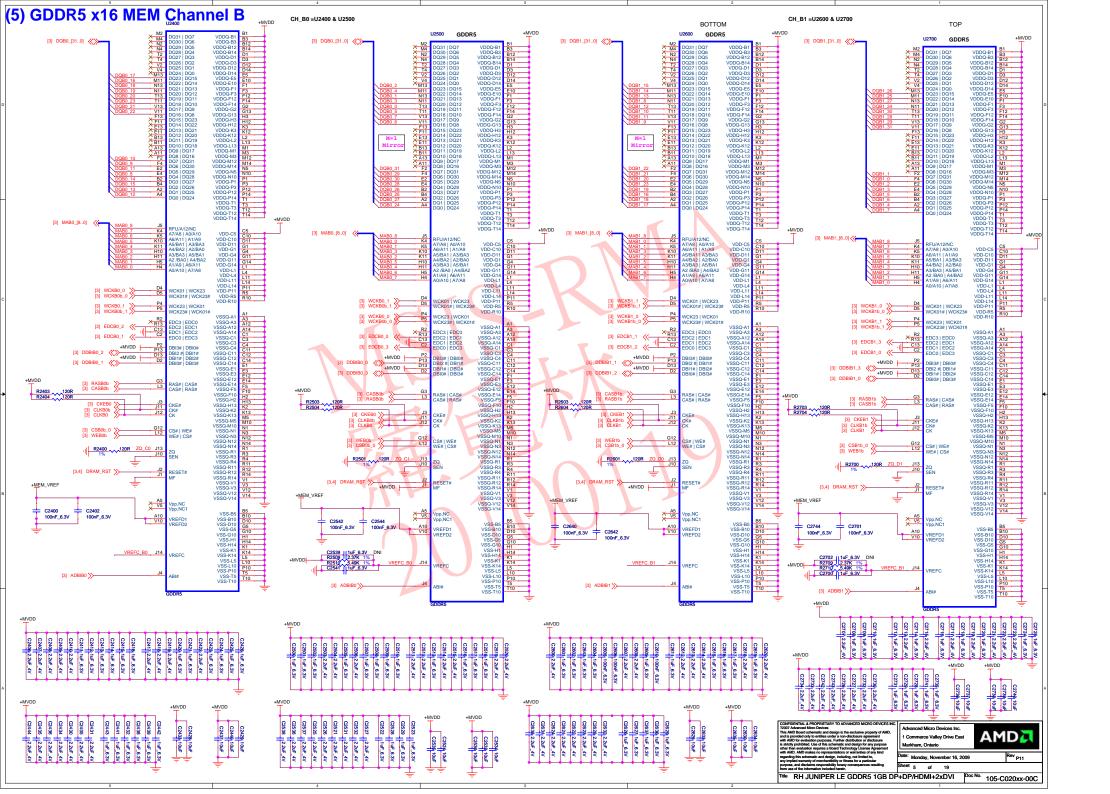
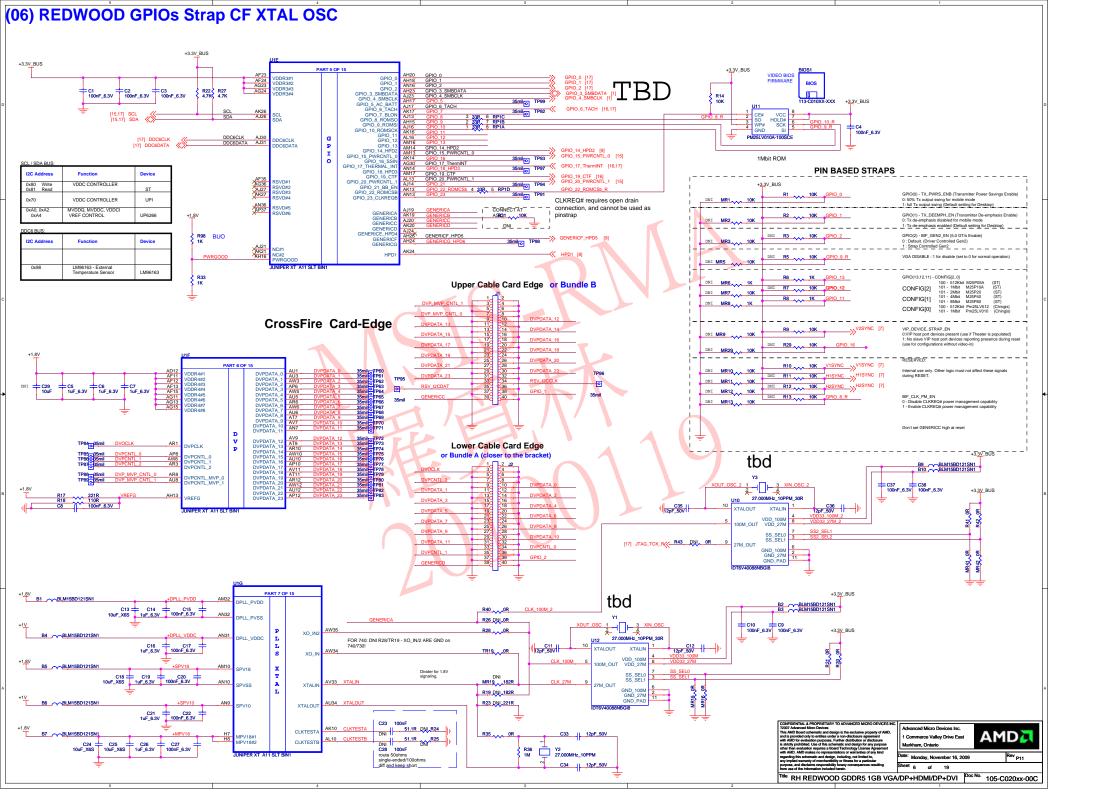
## **REDWOOD WOLVERINE PCI-EXPRESS EDGE CONNECTOR** +3.3V\_BUS PCIe RESET Buffered +12<u>V\_BUS</u> +3.3V\_BUS +3.3V\_BUS x16 PCle +3.3V\_BUS R106 47K DNI PRSNT1#A1 +12V#A2 +12V#A3 GND#A4 JTAG2 JTAG3 JTAG4 JTAG5 +3.3V#A9 +3.3V#A10 PERST# R102 10K System JTAG TDI and TDO are hard wired see p. 20 for GPU JTAG connection [14] +1V\_LDO\_POK >> R103 0F →>> PERST# buf [2.16] PERST# GND#A12 REFCLK+ REFCLK-GND#A15 PERRO GND#A18 GND#A29 GND#A26 GND#A26 GND#A27 GND#A27 GND#A27 GND#A27 GND#A28 PERRO GND#A28 GND#B16 PRSNTZ#B17 GND#B18 PETP1 PETP1 GND#B21 GND#B22 PETP2 PETP2 GND#B25 GND#B25 GND#B26 PETP3 PETN3 GND#B29 PETN3 GND#B30 PRSNTZ#B31 GND#B32 PETP4 PETP4 GND#B32 PETP4 GND#B33 PETN4 GND#B33 PETN4 GND#B35 GND#B36 GND#B36 R104 OR DNI Place these caps as close to the PCIE Place R104 in U100 CAP CER 10UF 20% 16V X5R (1206)1.8MM H MAX +12V BUS GND#A37 GND#A38 PERPS PERSS GND#A41 GND#A42 PERPS GND#A45 GND#A45 GND#A51 PERPS GND#A56 GND#A56 GND#A56 GND#A56 GND#A56 GND#A57 PERPS PERPS GND#A58 C151 C152 = 150nF\_16V = 150nF\_16V GND#B43 GND#B44 +3.3V\_BUS CAP CER 10UF 10% 6.3V X5R (0805)1.4MM MAX THICK +3.3V\_BUS C156 GND#A5: PERQ11 PERQ11 GND#A6: GND#A6: PERQ1: PERQ1: GND#A7: GND#A7: GND#A7: GND#A7: GND#A7: GND#A7: PERQ1: $\dot{\uparrow}$ BUO BRING UP **AMD** Commerce Valley Drive East Markham, Ontario tion use of the information inclusion netern. Title RH REDWOOD GDDR5 1GB VGA/DP+HDMI/DP+DV Poc No. 105-C020xx-00C

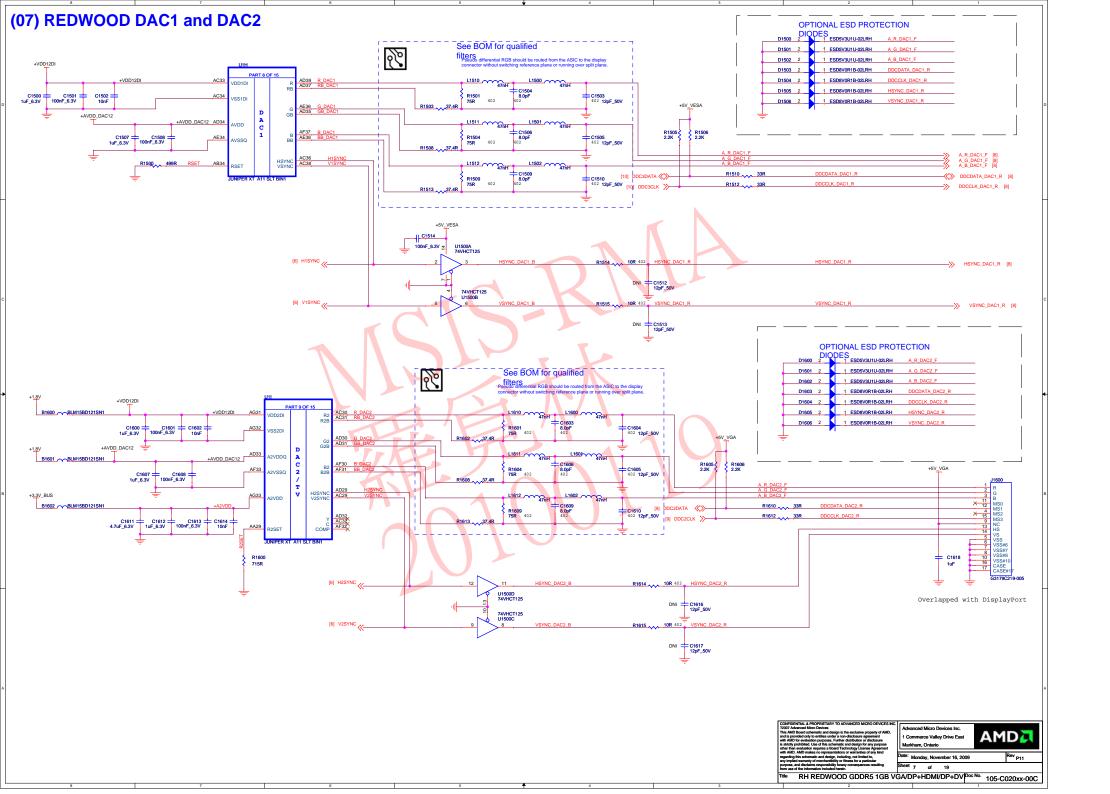


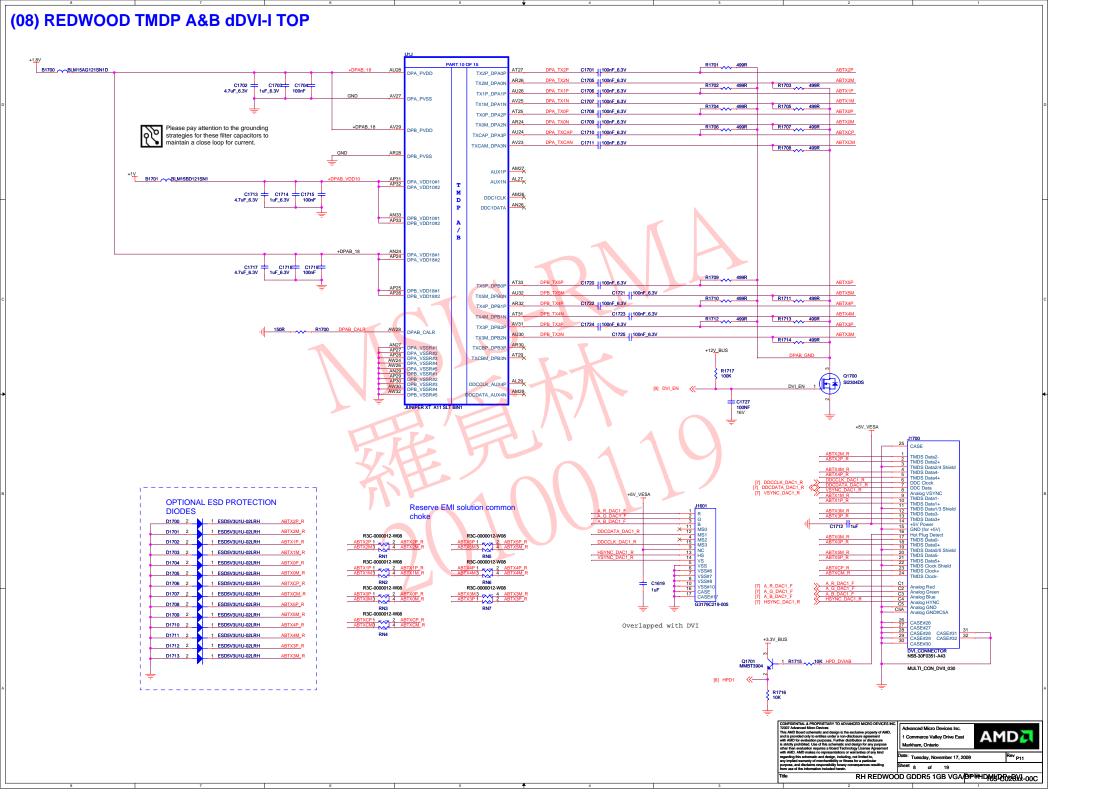


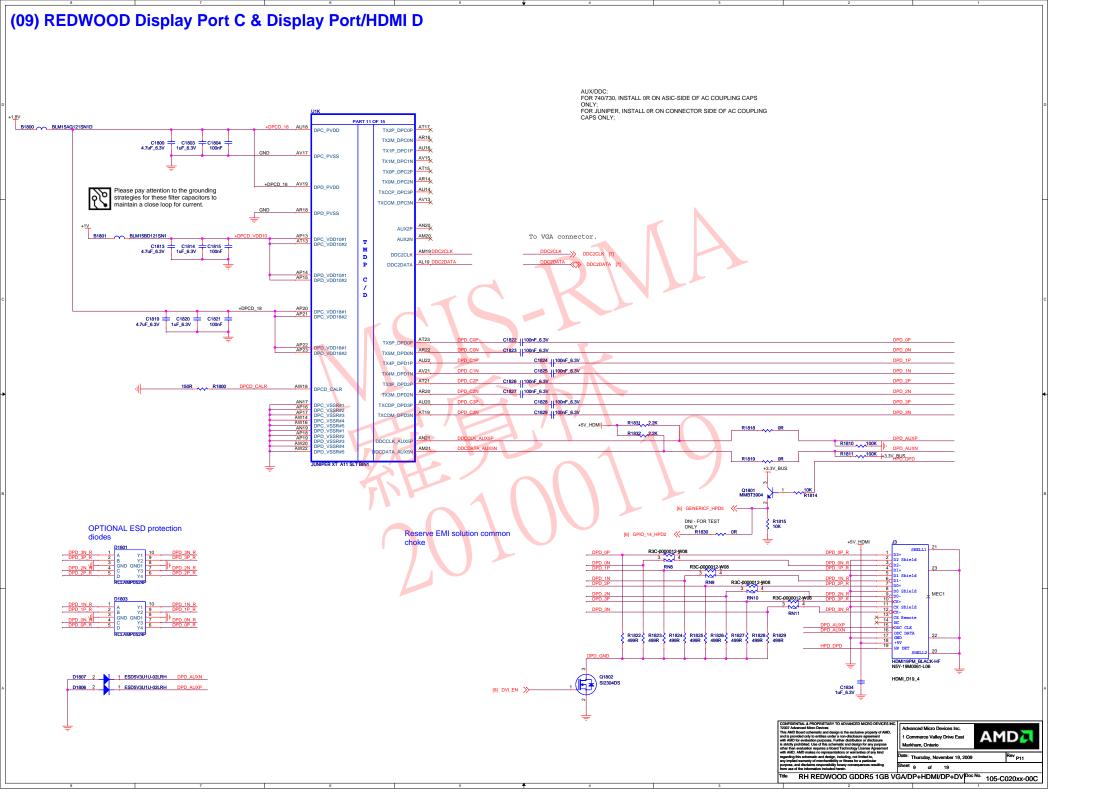


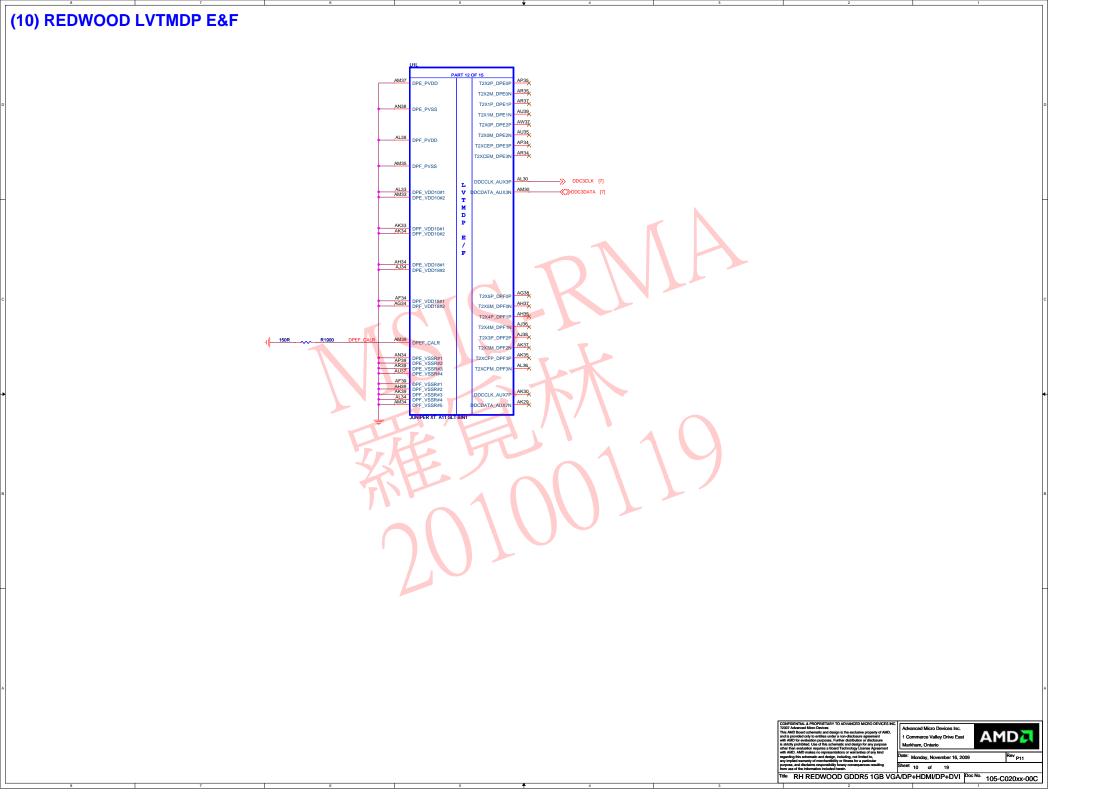


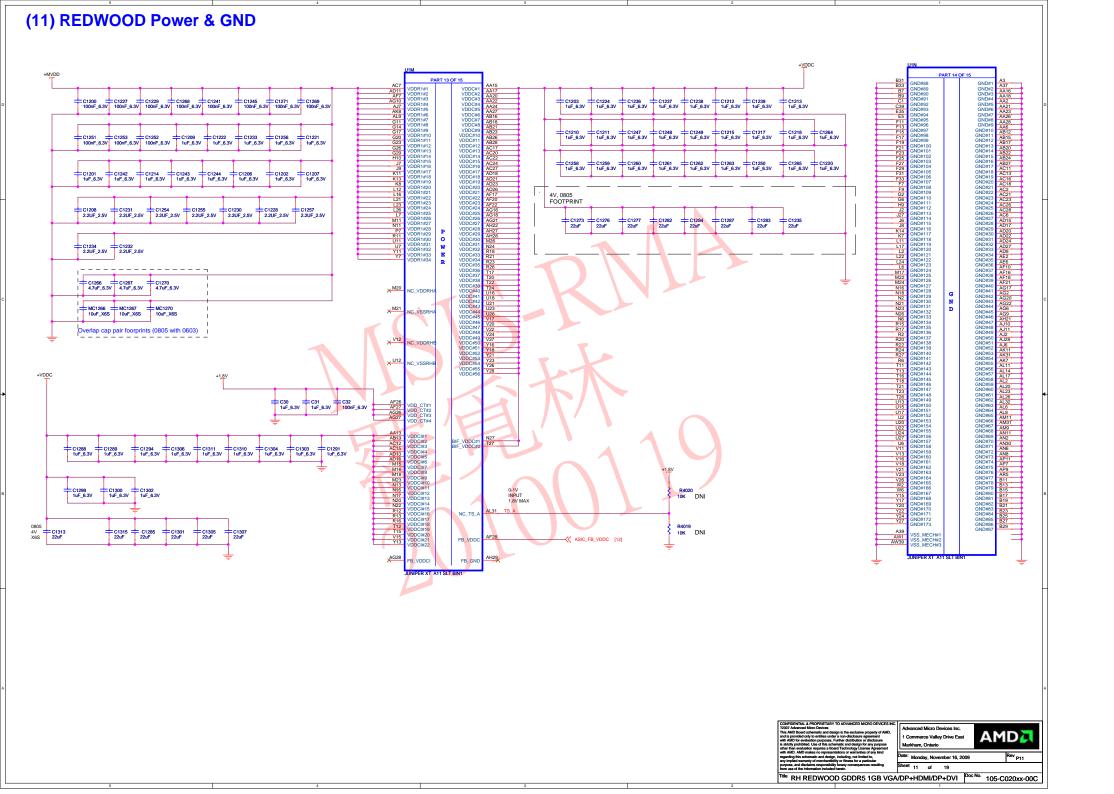


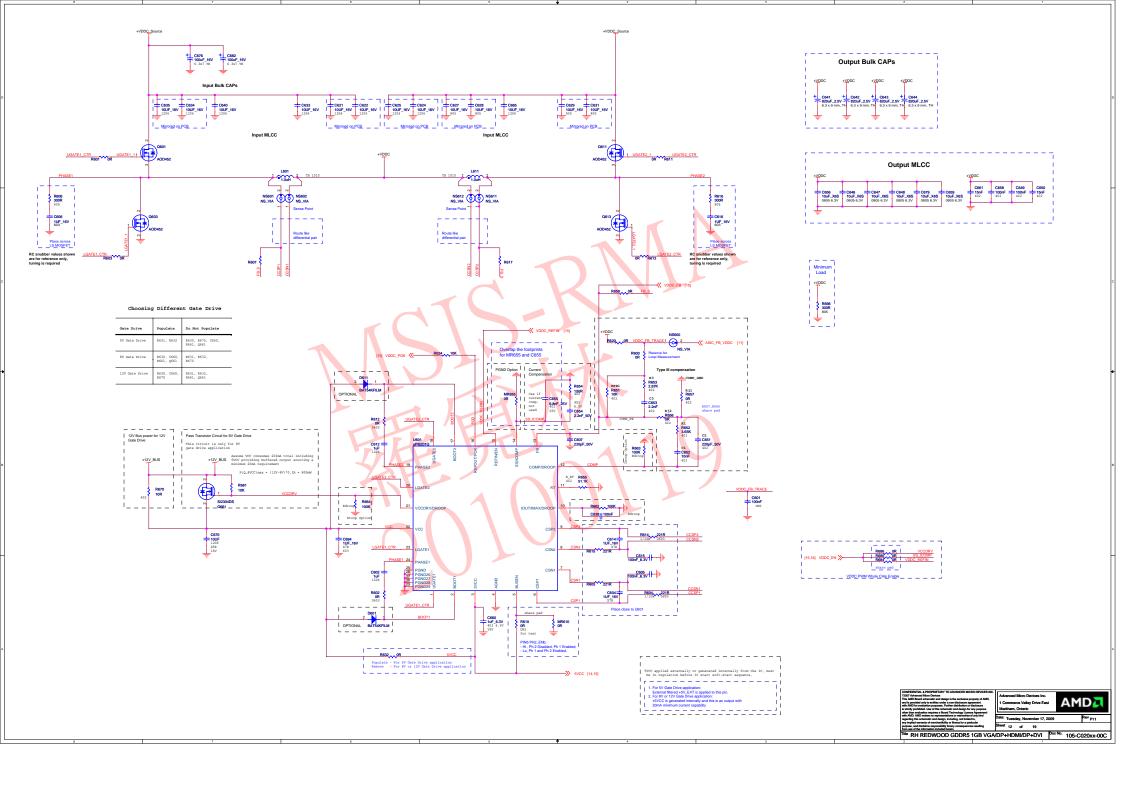


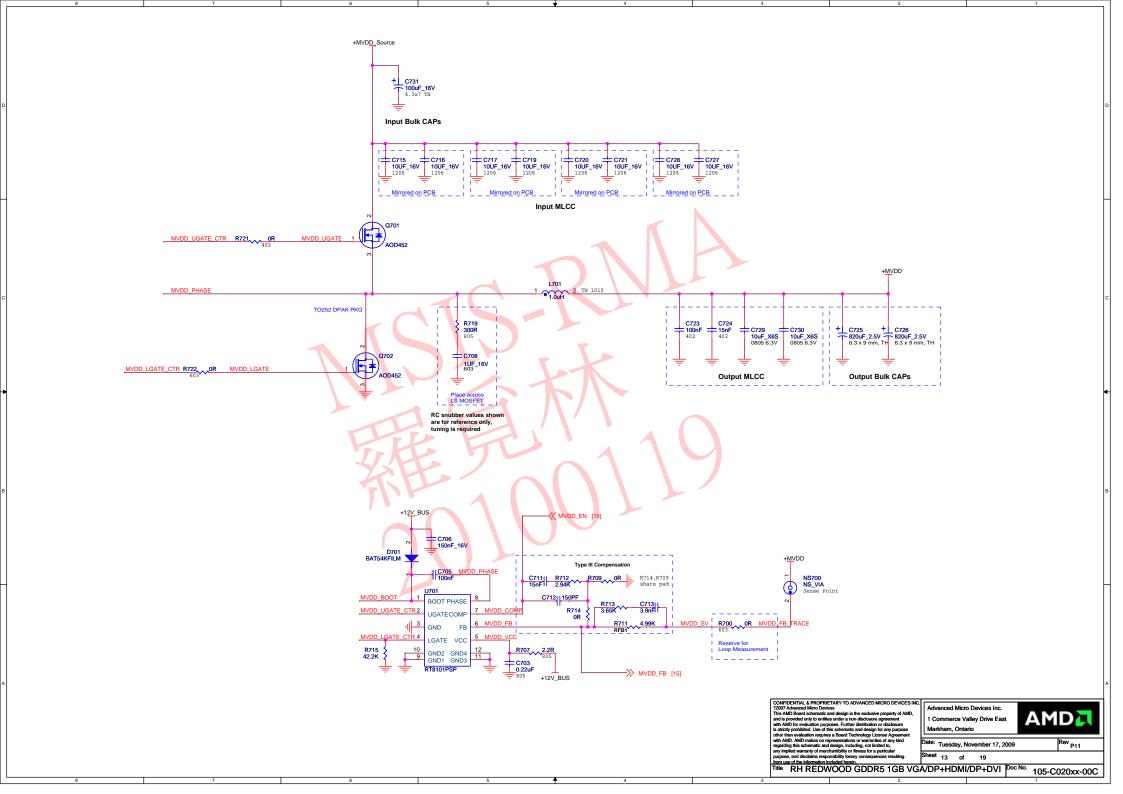


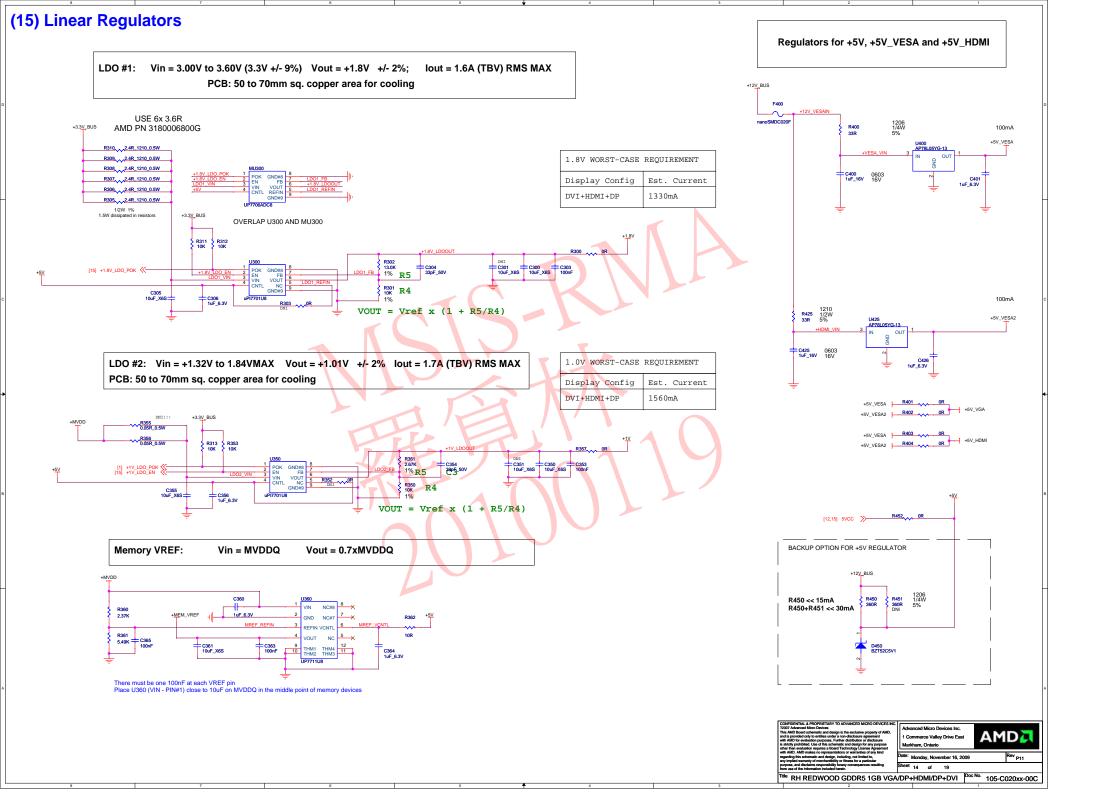




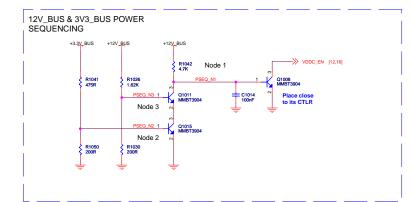








## (16) Power Management - Power Gating and Dynamic Voltage Control

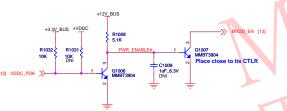






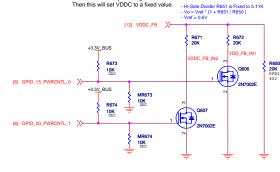
## POWER SEQUENCING CIRCUIT

Place parts close



──**⟨**5VCC [12,14]





## 

Internal Reference is used when REFIN is pull-up to > 4.5V

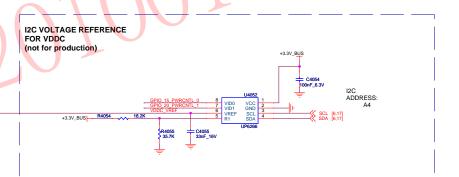
 VDDC Vref Mode Selection

 Vref Mode
 R636
 R639/C689
 Vref (V)

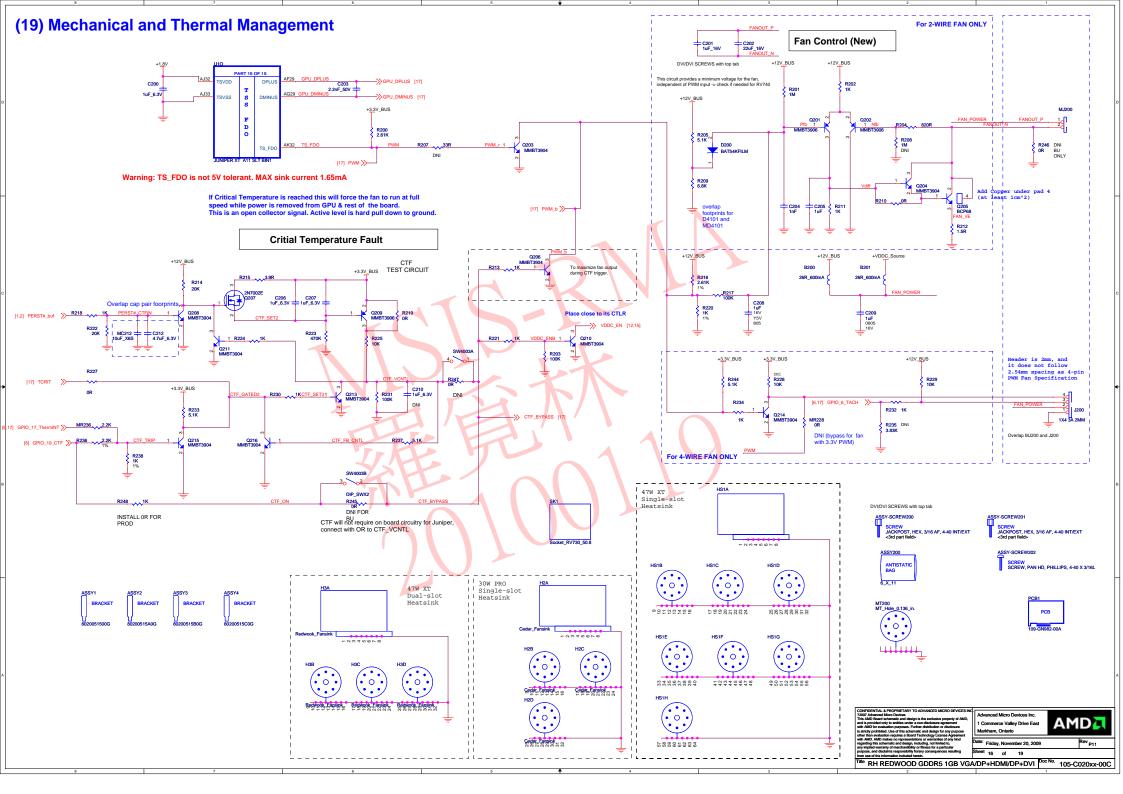
 Internal
 Populate
 DNI
 0.6

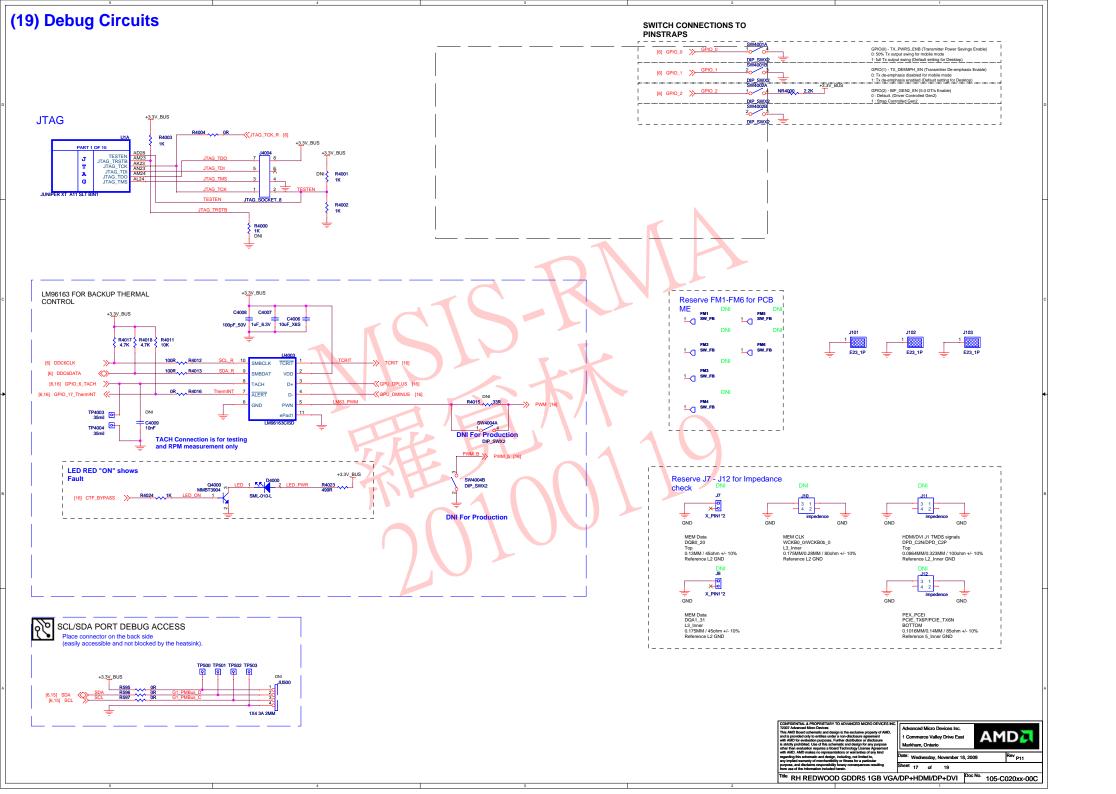
 External
 DNI
 Populate
 set by VID IC

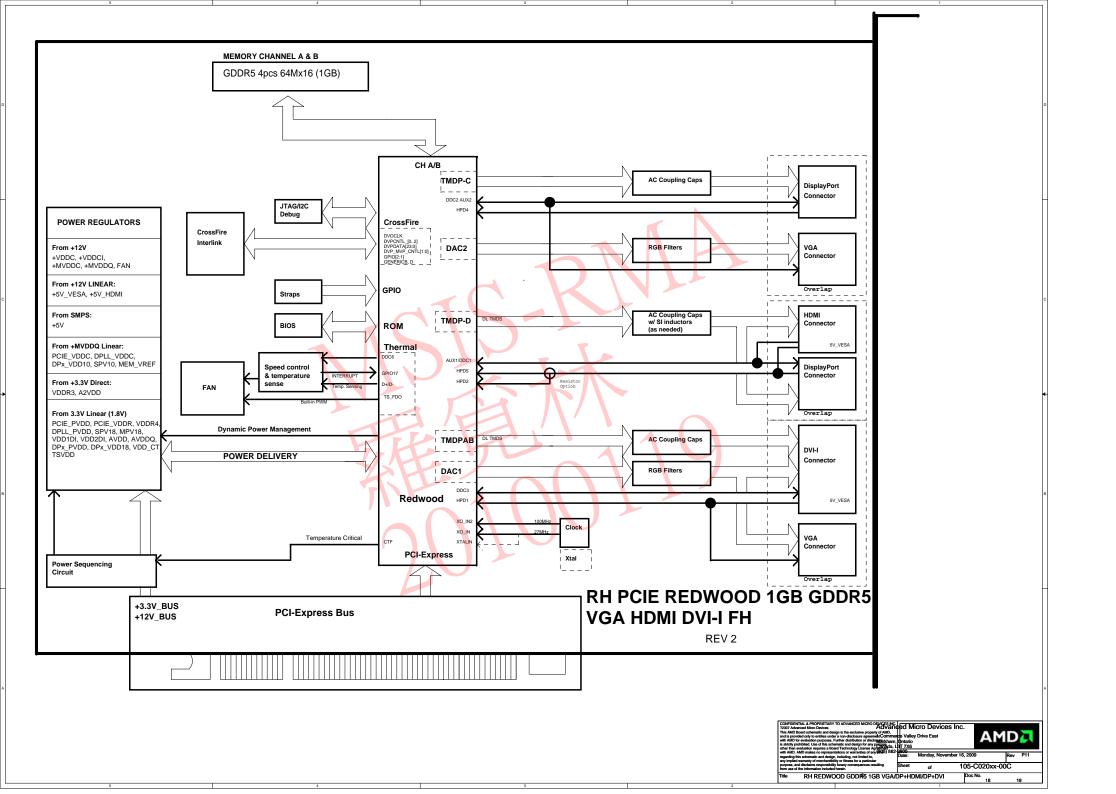
R636\_\_\_1K











AMD			Ţ.	Title  RH REDWOOD GDDR5 1GB VGA/DP+HDMI/DP+DVI		Schematic No. 105-C020xx-00C	Date: Monday, November 16, 2009	
				REVISION HISTORY	This schematic represents the PCB, it does not represent any specific SKU.  For Stuffing options (component values, DNI , ? please consult the product specific BOM.  Please contact AMD representative to obtain latest BOM closest to the application desired.			Rev P11
	Sch Rev	PCB Rev	Date	REV	EVISION DESCRIPTION			
	00	00A	2009/05/08					
	01	00B	2009/08/20			N.		
C B B A A	02 00C 20000028 REDWOOD XT GDDRS 1GB - Initial Release						1	