

P2130_A01

GK208 DDR3 2Gb

DVI-I/DVI-D + HDMI/DP + VGA

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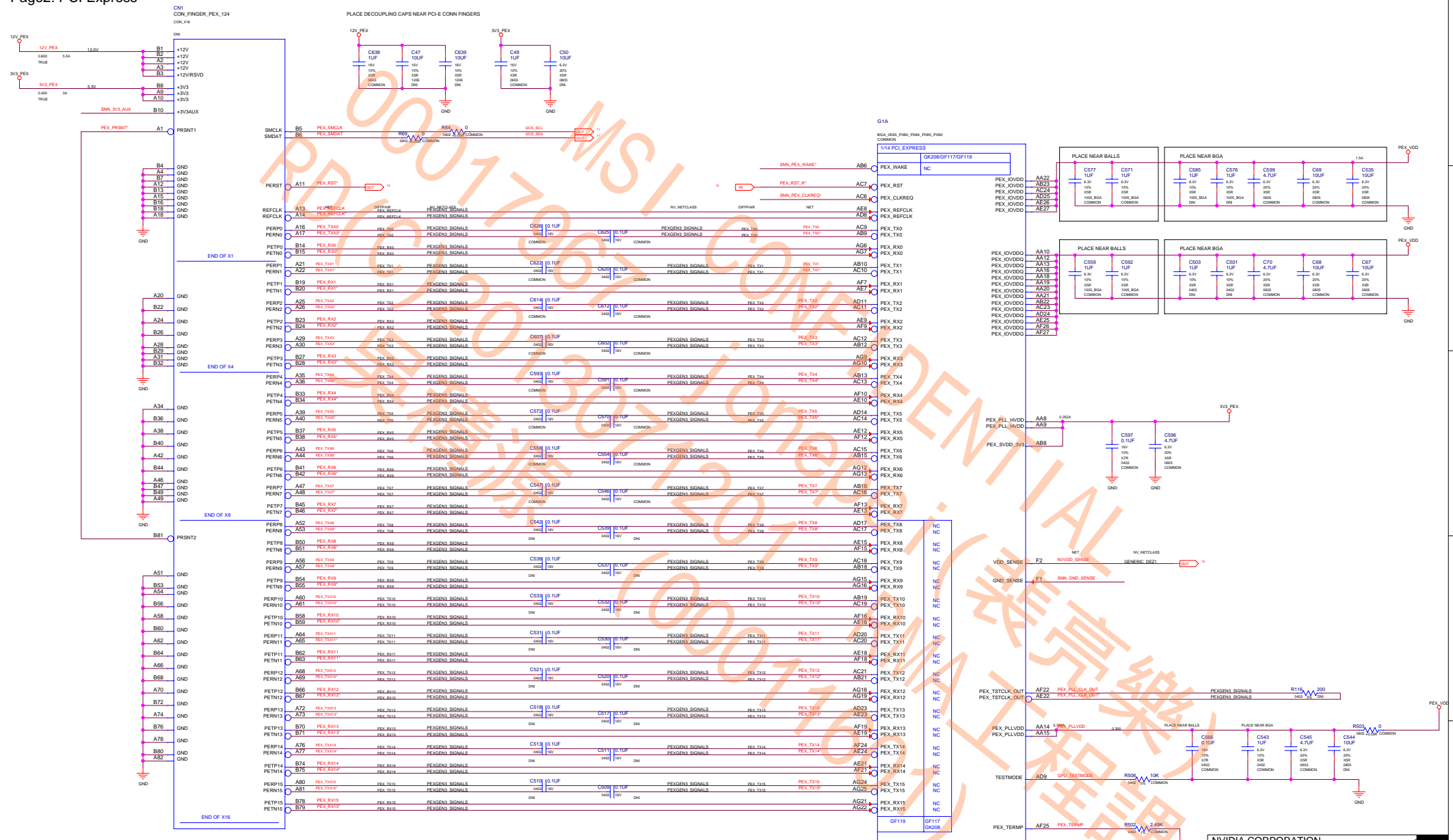
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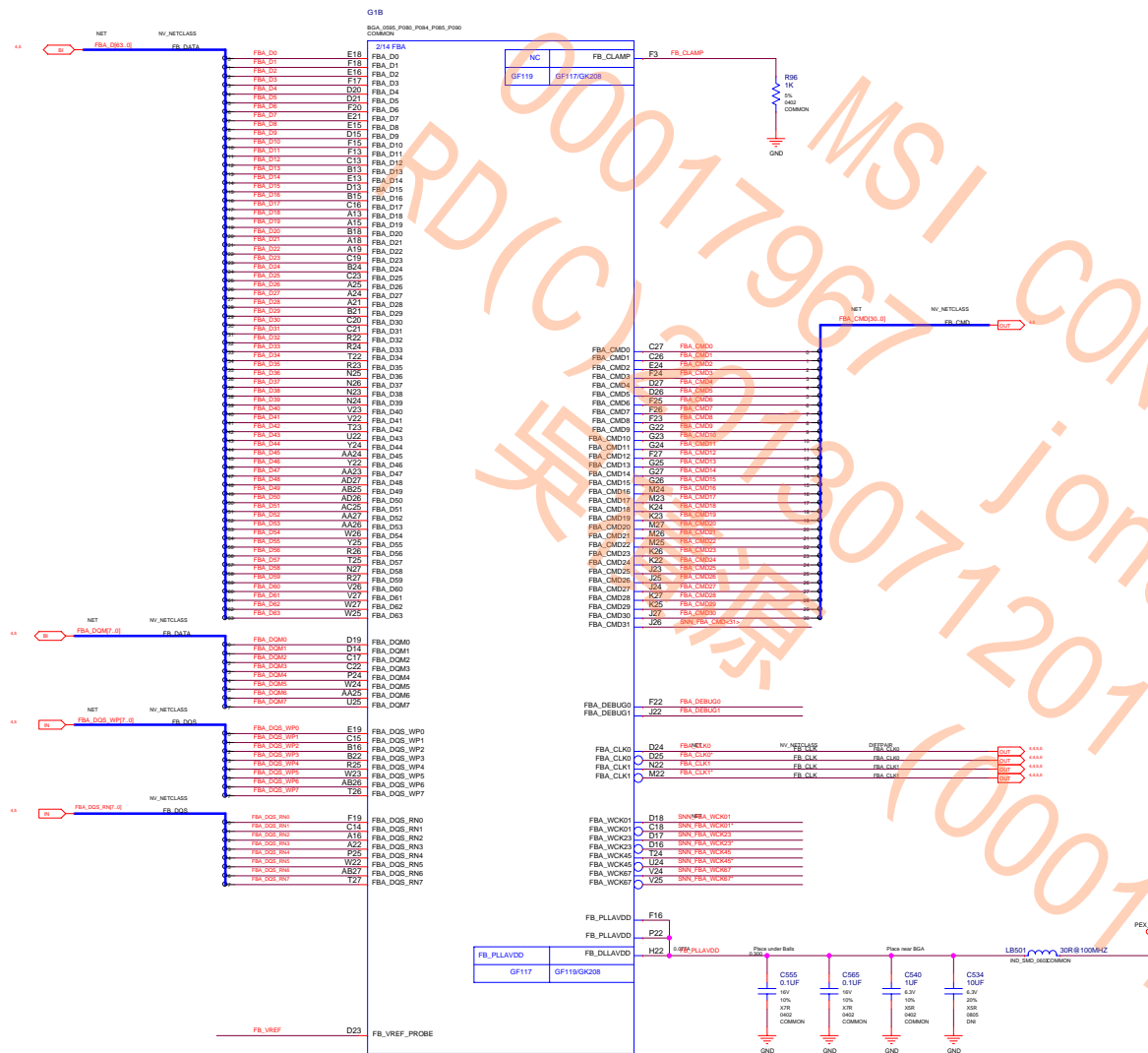


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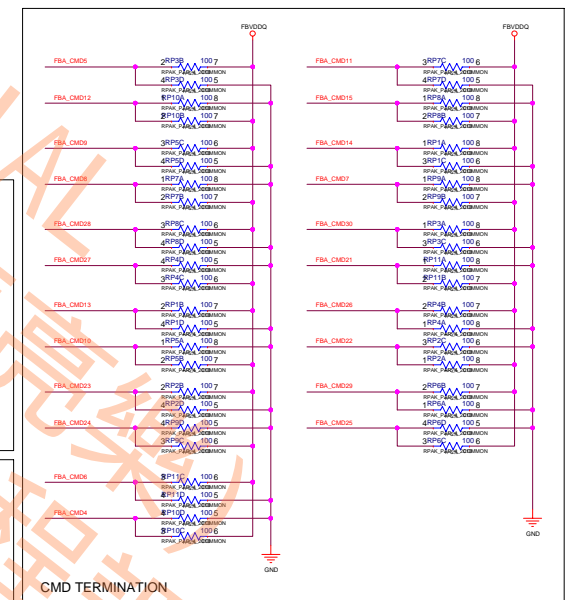


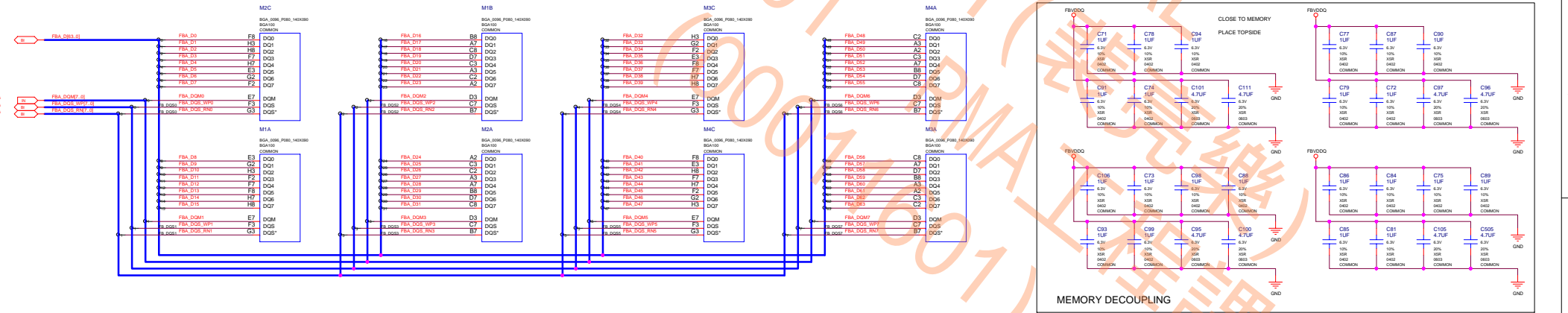
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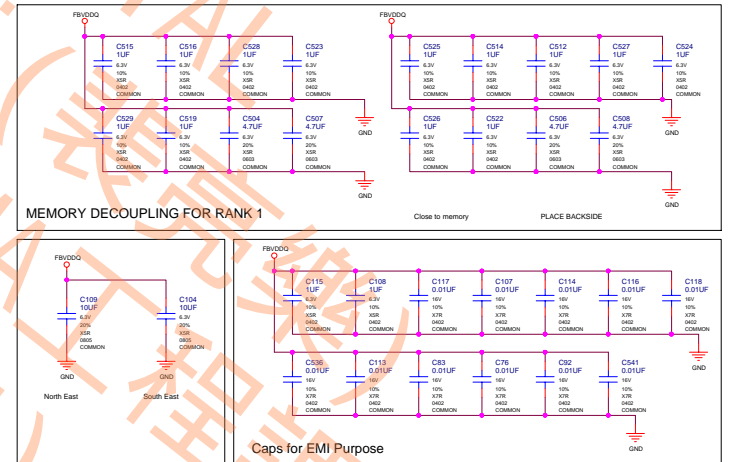
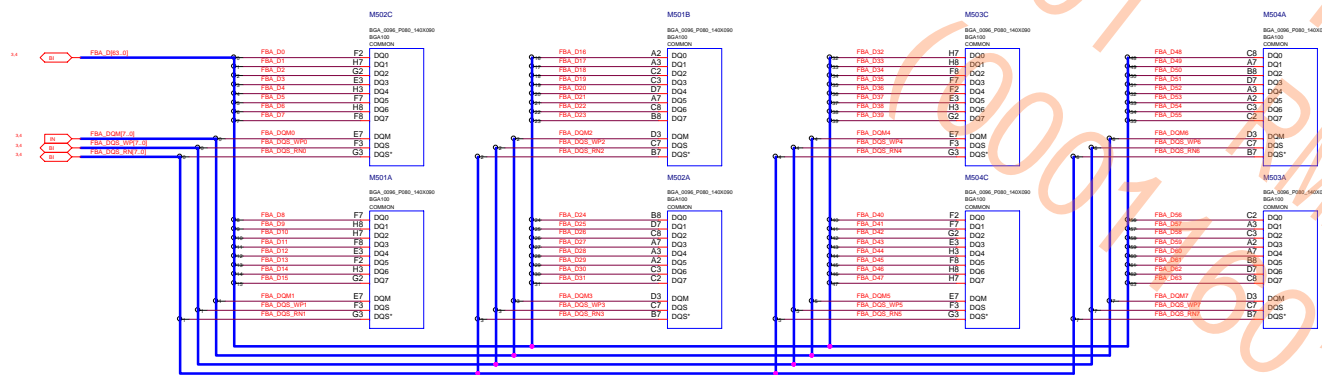
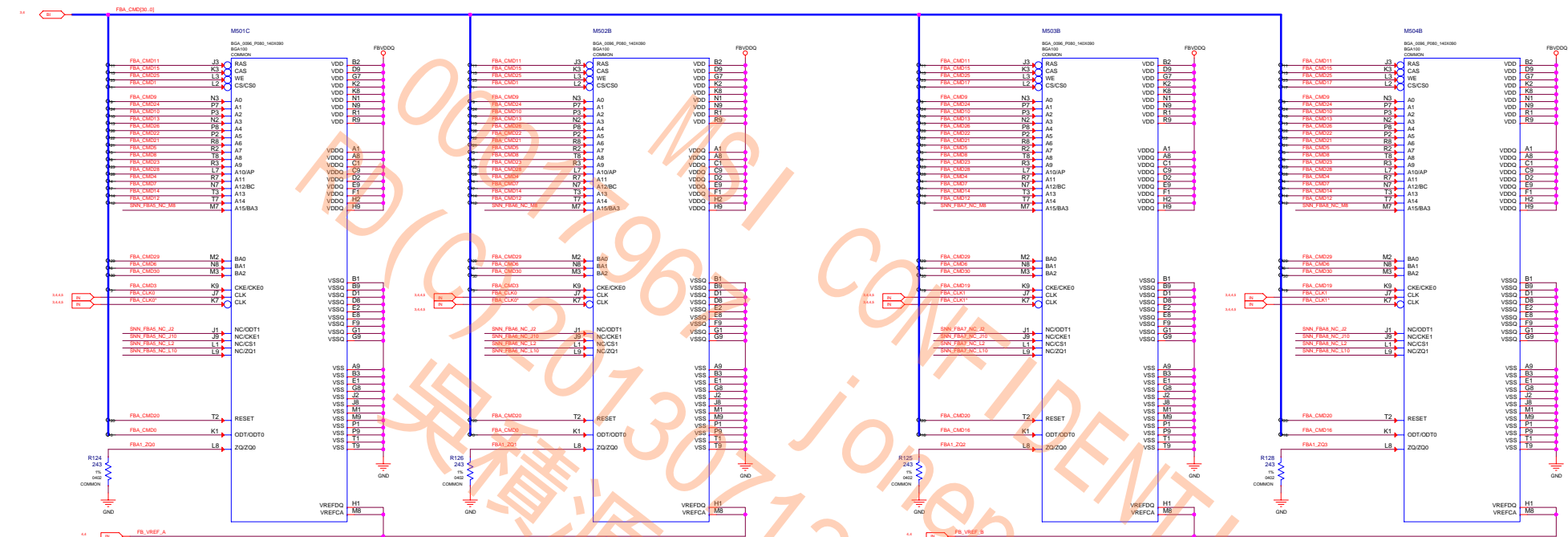
CMD	RANK0	RANK1		
	-31..0 -63..32 +31..0 -63..32-			
CM00	DET	NOT USED	DET	NOT USED
CM01	NOT USED	NOT USED	CS1	NOT USED
CM02	CS1	NOT USED	NOT USED	NOT USED
CM03	CH1	NOT USED	CH1	NOT USED
CM04	A0a	A0a	A11a	A11a
CM05	A0a	A0a	A2a	A2a
CM06	A3a	A3a	B4	B4
CM07	A0a	A0a	A10a	A10a
CM08	A0a	A0a	A0b	A0b
CM09	A1a	A10a	A0b	A0b
CM10	A1a	A1a	A0b	A0b
CM11	RAS1	RAS1	RAS1	RAS1
CM12	A1a	A1a	A14a	A14a
CM13	B4	B4	A0b	A0b
CM14	A1a	A1a	A13a	A13a
CM15	CAS1	CAS1	CAS1	CAS1
CM16	NOT USED	DET	NOT USED	DET
CM17	NOT USED	CS1	NOT USED	CS1
CM18	NOT USED	CS1	NOT USED	NOT USED
CM19	NOT USED	CH1	NOT USED	CH1
CM20	RES1	RES1	RES1	RES1
CM21	A0a	A0a	A0b	A0b
CM22	A0a	A0a	A0b	A0b
CM23	A1a	A1a	A0b	A0b
CM24	A2a	A2a	A1a	A1a
CM25	A1a	A1a	WE1	WE1
CM26	A0a	A0a	A1a	A1a
CM27	BA1	BA1	NOT USED	NOT USED
CM28	WE1	WE1	A10a	A10a
CM29	BA1	BA1	BA1	BA1
CM30	NOT USED	NOT USED	BA1	BA1





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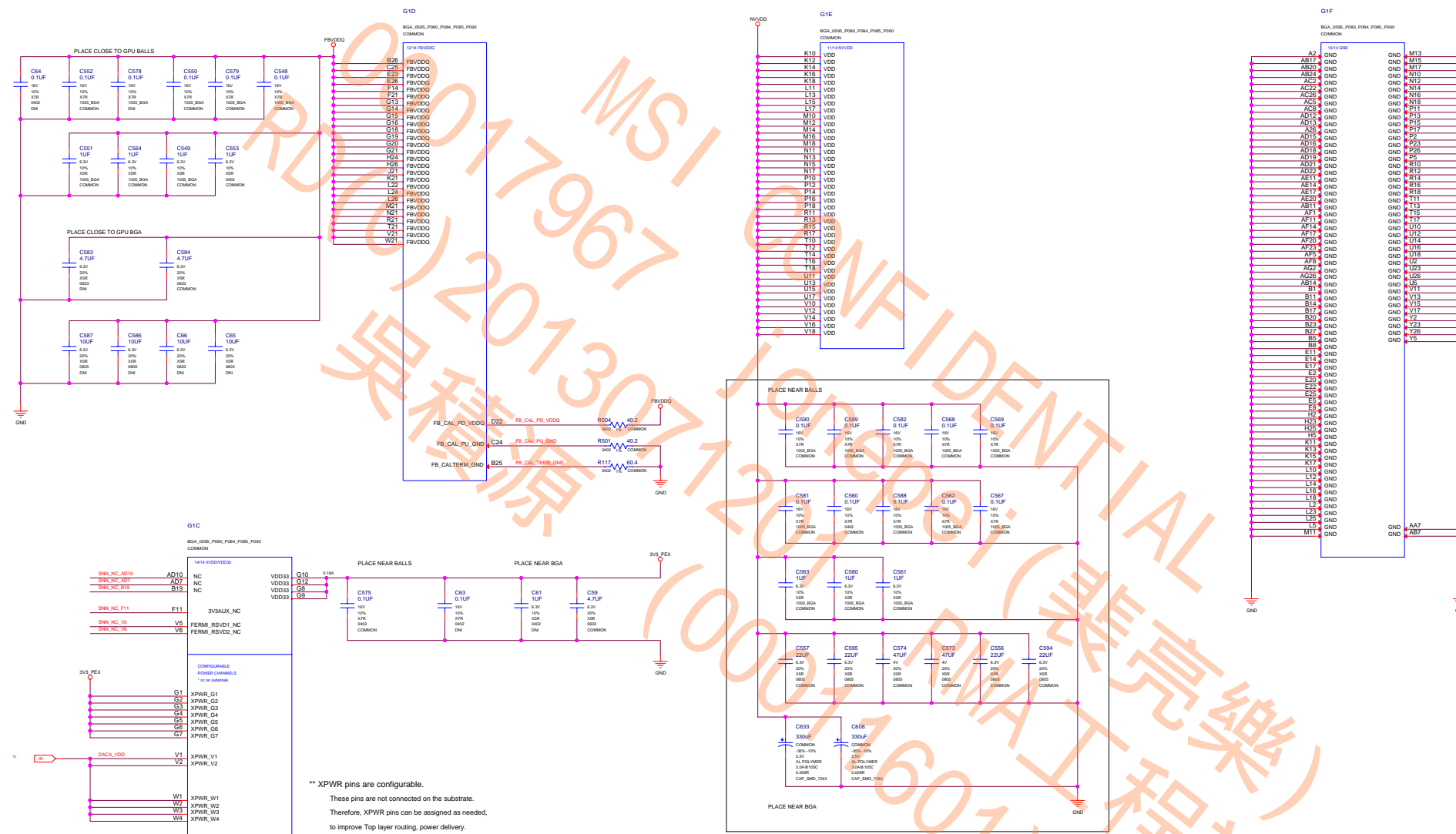
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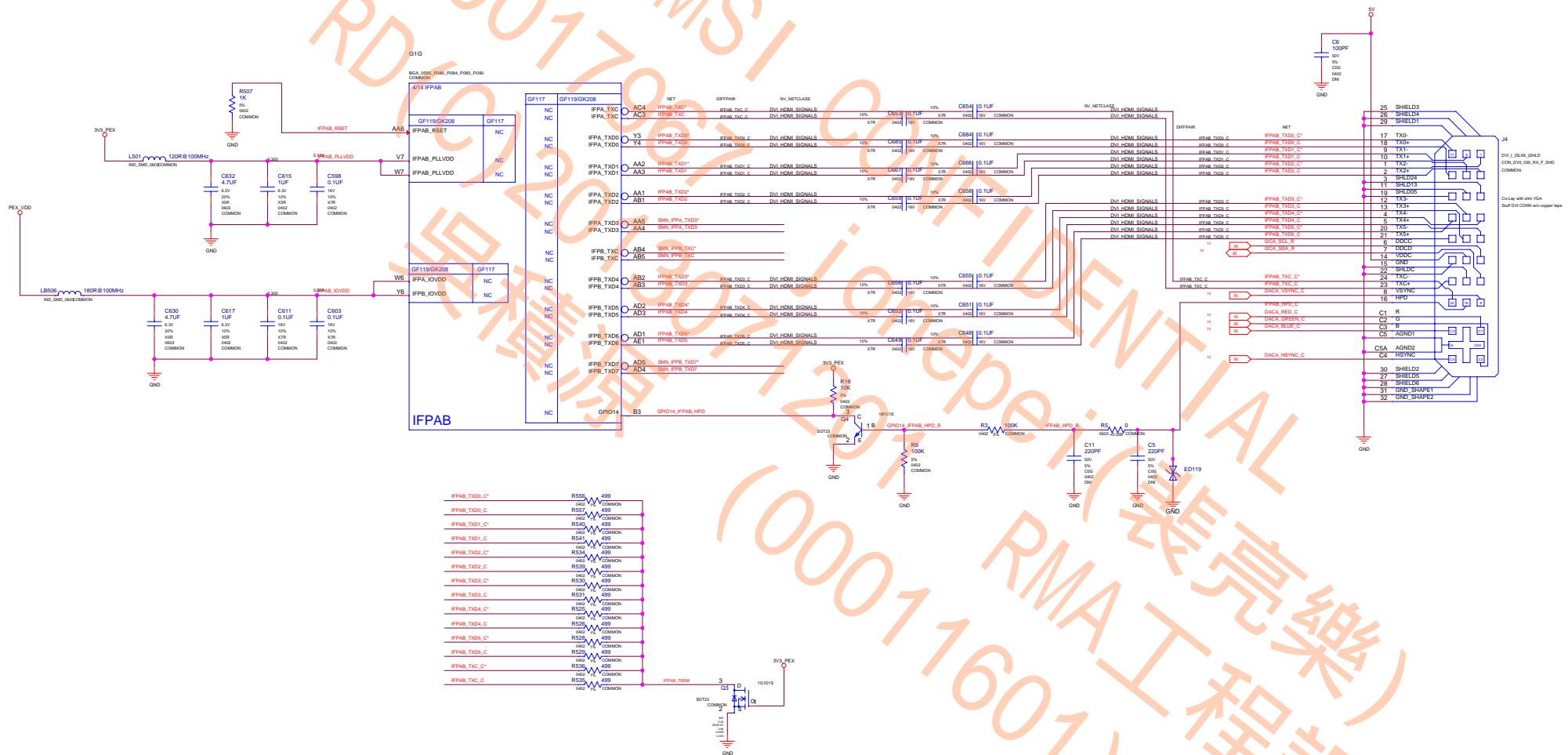
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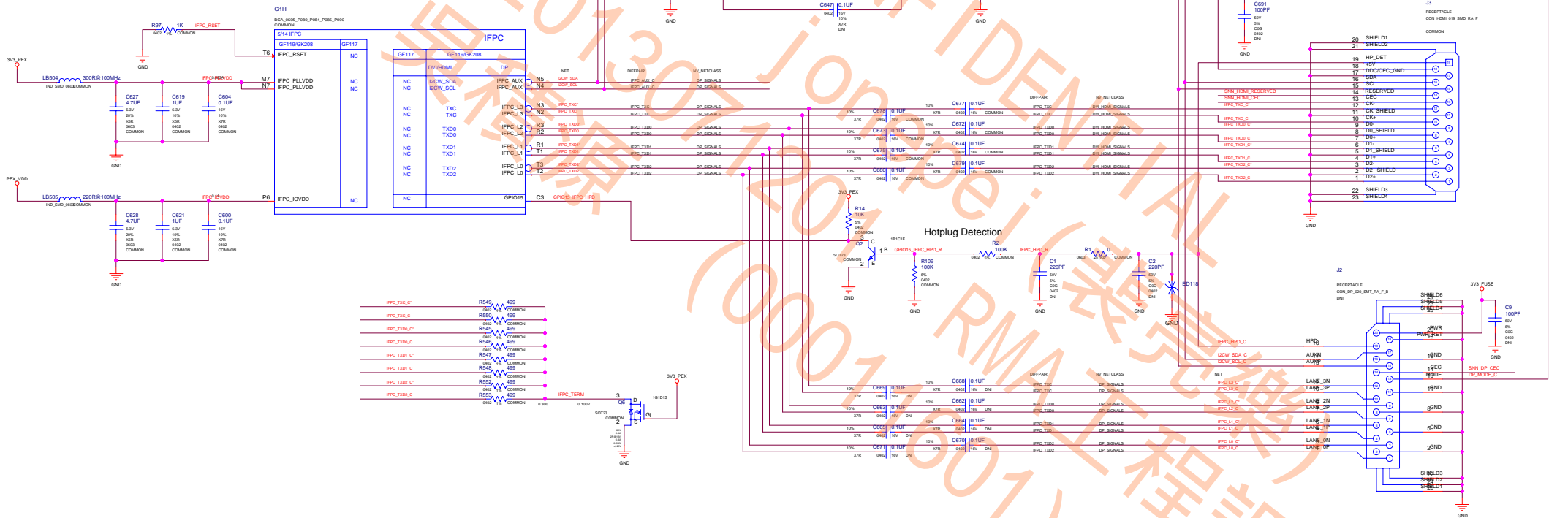
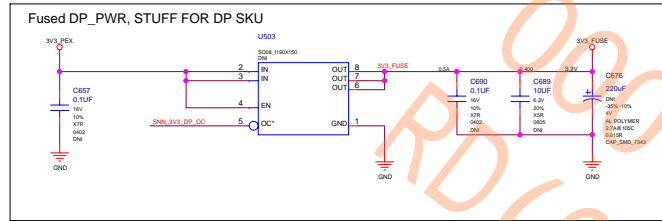
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PAGE DETAIL	IFPC HDMI/DP, DP_PWR

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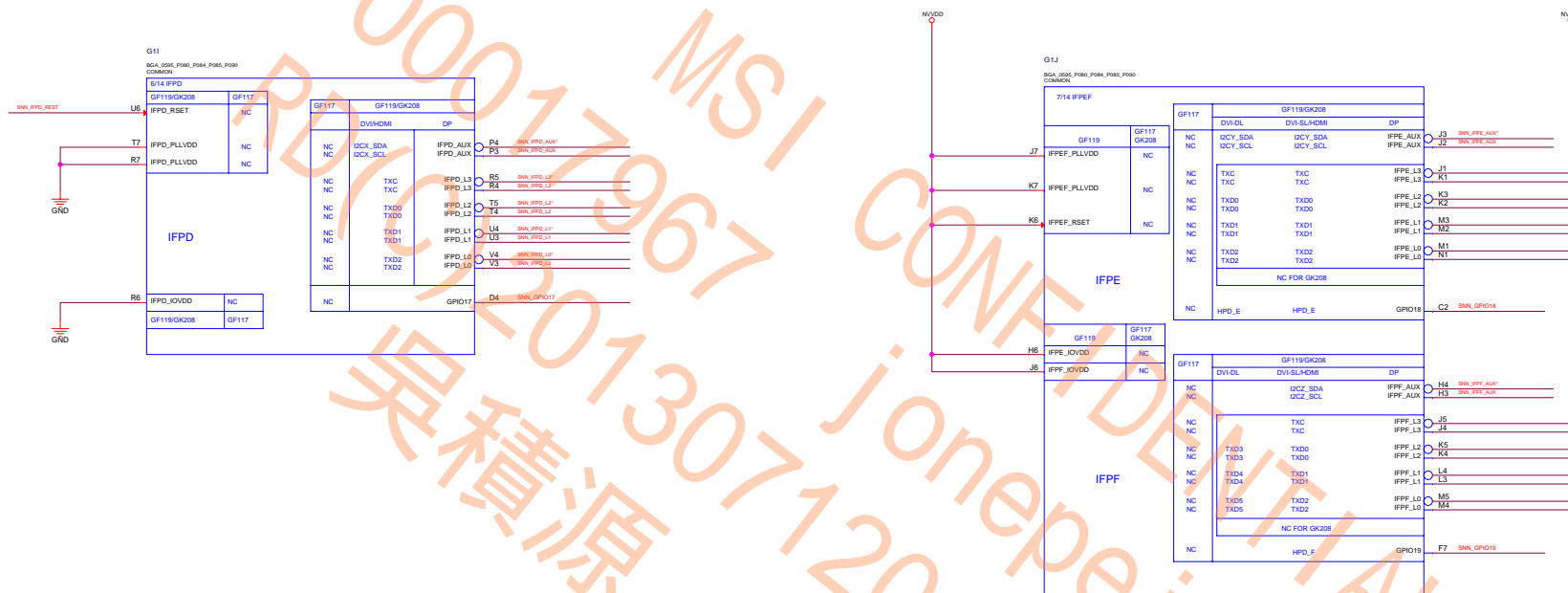
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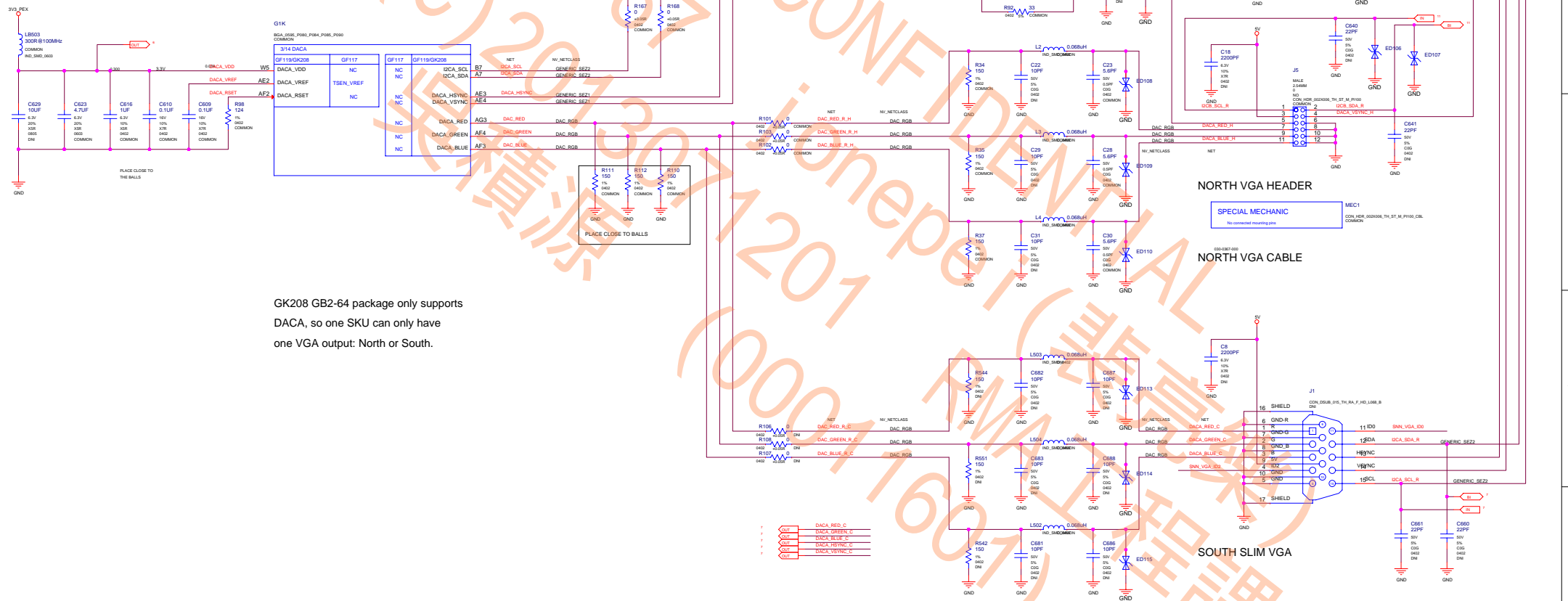


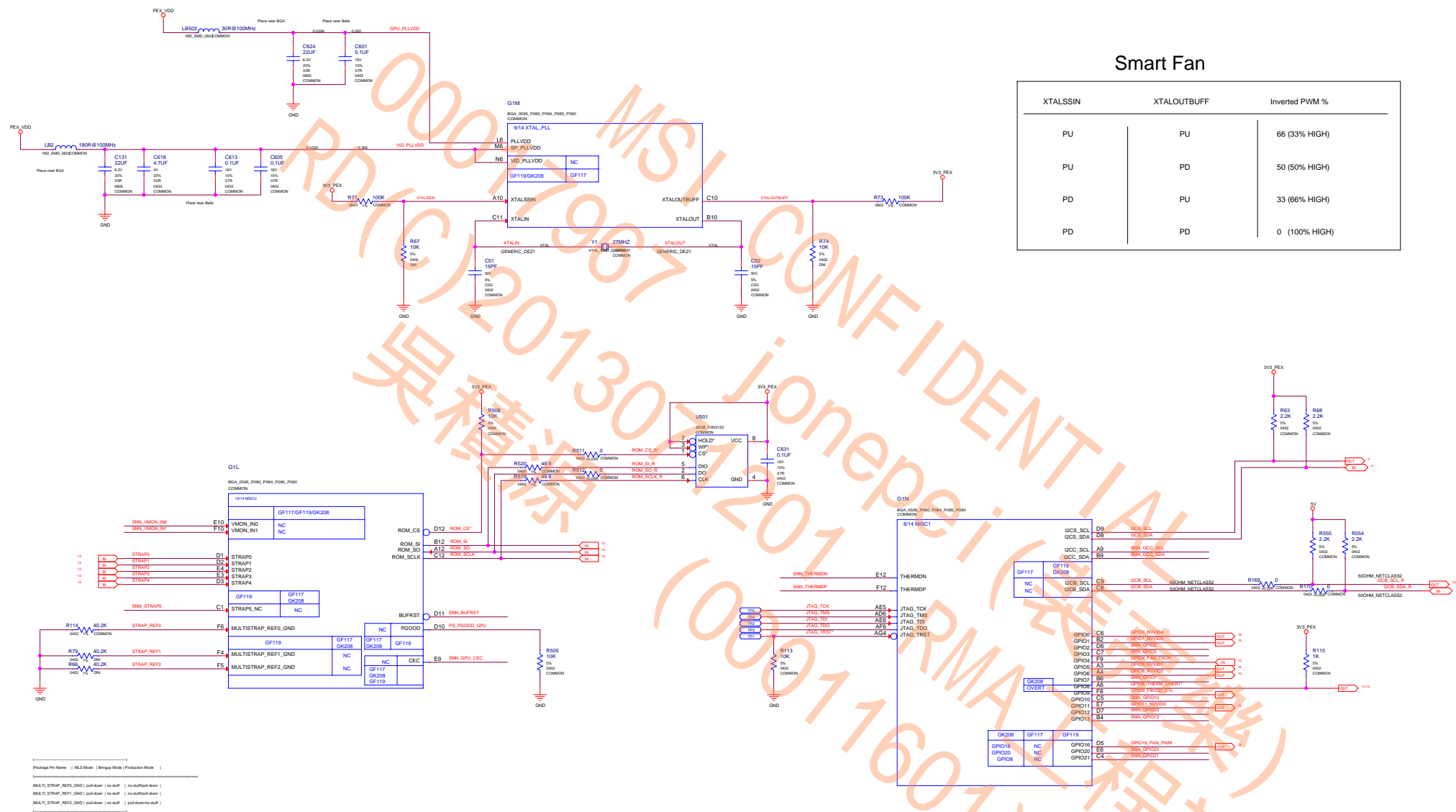
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The diagram shows a horizontal beam of total length \$L\$. A vertical line at the left end represents a support. The beam is divided into two parts: a left part of length \$L\$ and a right part of length \$R\$. A horizontal force \$H\$ is applied at the right end of the beam, pointing to the right.







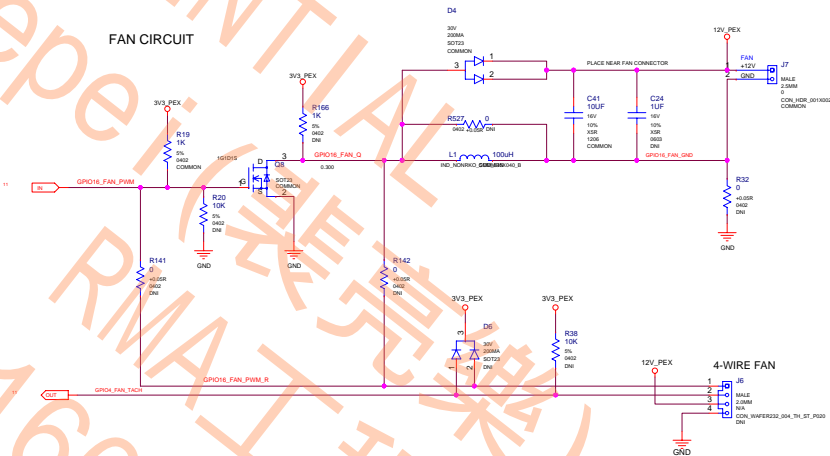
XTALSSIN	XTALOUTBUFF	Inverted PWM %
PU	PU	66 (33% HIGH)
PU	PD	50 (50% HIGH)
PD	PU	33 (66% HIGH)
PD	PD	0 (100% HIGH)

STRAPS

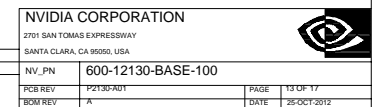
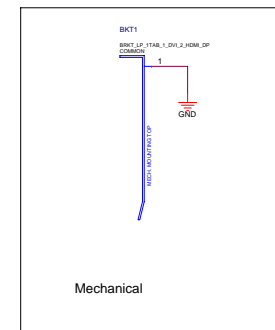
TERMINATION RESISTANCE	TERMINATION VOLTAGE	
	3V3 [3.0]	GND [3.0]
5K	1000	0000
10K	1001	0001
15K	1010	0010
20K	1011	0011
25K	1100	0100
30K	1101	0101
35K	1110	0110
45K	1111	0111

PIN NAME	MULTI-LEVEL bit [3:0]	BINARY BRINGUP
STRAP0	USER[3:0]	3GIO_PADCFG_LUT_ADR0
STRAP1	3GIO_PADCFG_ADR[3:0]	3GIO_PADCFG_LUT_ADR1
STRAP2	PCI_DEVICEID[3:0]	3GIO_PADCFG_LUT_ADR2
STRAP3	SOR[3:0]_EXPOSED	3GIO_PADCFG_LUT_ADR3
STRAP4	RESERVED, RESERVED, PCIE_MAX_SPEED, DP_PLL_VDD_33V	PCI_MAX_SPEED
ROM_SCLK	PCIDEVID[4], SUB_VENDOR, PCIDEVID[5], PEX_PL_LN_TERM	SMB_ALT_ADDR
ROM_SI	RAMCFG[3:0]	SUB_VENDOR
ROM_SO	FB[1], FB[0], SMB_ALT_ADDR, VGA_DEVICE	VGA_DEVICE

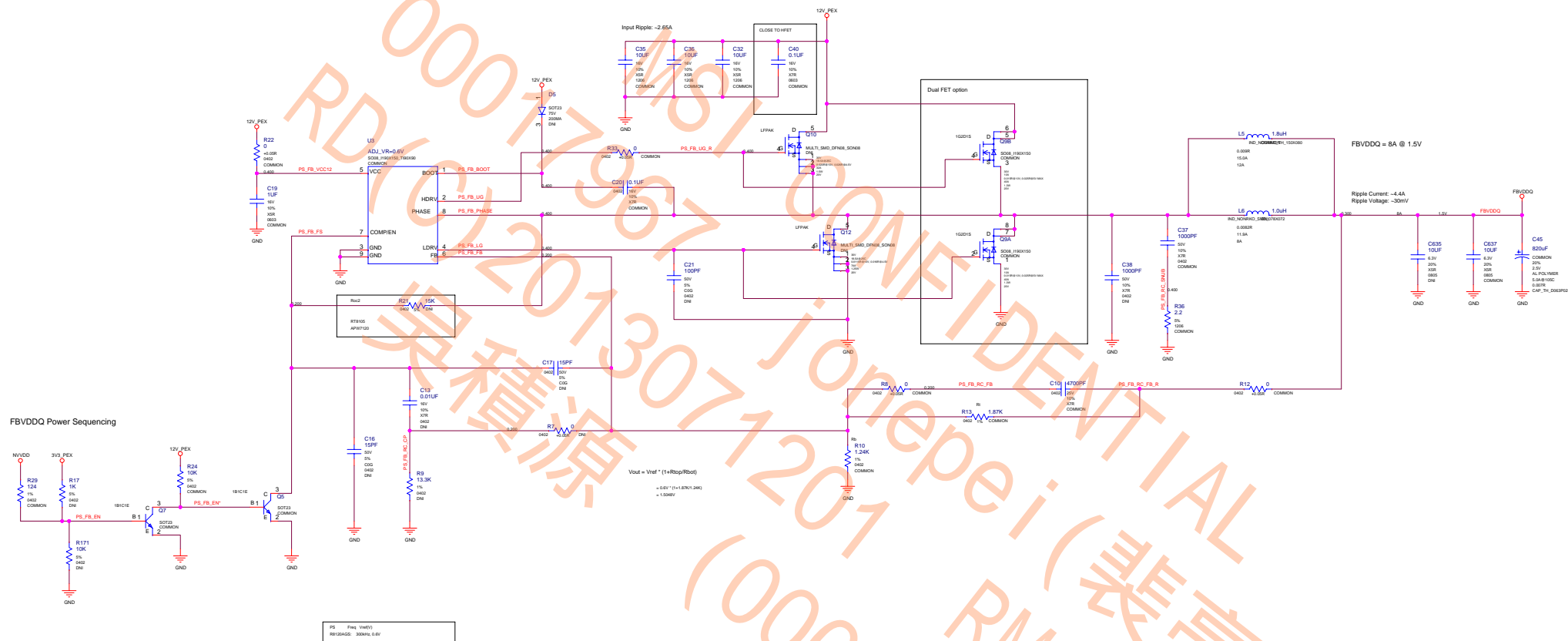
FAN CIRCUIT



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A		B		C		D		E		F		G		H	
Title: Cnd Part															
Design: p2130															
Date: Oct 25															
11/52/19/2012															
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C1 [8.4F]		C395 [4.4G]		C365 [6.4E]		C666 [12.5G]		G12 [14.2F]		R88 [10.3F]		R527 [12.5G]			
C2 [8.4F]		C396 [4.4H]		C366 [2.5G]		C667 [7.2E]		G13 [15.2E]		R89 [10.3F]		R528 [7.4C]			
C3 [10.1G]		C397 [4.4F]		C367 [8.3F]		C668 [6.4E]		G14 [15.2E]		R90 [12.3C]		R529 [7.5C]			
C4 [10.2G]		C398 [4.4G]		C368 [8.3F]		C669 [8.4E]		G15 [15.3C]		R91 [12.4C]		R530 [7.4C]			
C5 [7.4F]		C399 [4.4F]		C369 [8.3F]		C670 [8.5E]		G16 [15.3H]		R92 [10.3F]		R531 [7.4C]			
C6 [7.2G]		C400 [4.4G]		C370 [2.5G]		C671 [15.5E 15.5F]		G17 [15.5E 15.5F]		R93 [10.3F]		R532 [10.2G]			
C7 [13.1G]		C401 [4.4G]		C371 [2.2G]		C672 [8.3E]		G18 [15.4F 15.4G]		R94 [12.3C]		R533 [10.2G]			
C8 [10.4G]		C402 [13.2F]		C372 [2.3G]		C673 [8.3E]		G19 [15.3D 15.3F]		R95 [12.4C]		R534 [7.4C]			
C9 [8.4H]		C403 [10.2F]		C373 [8.4E]		C674 [8.3E]		G20 [12.2F]		R96 [3.1G]		R535 [7.5C]			
C10 [14.3G]		C404 [10.2F]		C374 [8.4F]		C675 [8.3F]		G21 [15.3H 15.3C]		R97 [8.3A]		R536 [7.5C]			
C11 [7.4F]		C405 [4.5H]		C375 [8.4C]		C676 [8.1C]		G22 [12.2G]		R98 [10.3H]		R537 [8.2G]			
C12 [13.2E]		C406 [4.5H]		C376 [2.2G]		C677 [8.3E]		G23 [8.1E]		R99 [12.3D]		R538 [8.1G]			
C13 [14.3C]		C407 [4.5H]		C377 [2.2F]		C678 [8.3E]		G24 [8.5D]		R100 [12.4D]		R539 [7.4C]			
C14 [13.1G]		C408 [4.5H]		C378 [8.1A]		C679 [8.3E]		G25 [8.5D]		R101 [10.3E]		R540 [7.4C]			
C15 [8.2F]		C409 [4.5H]		C379 [8.1B]		C680 [8.3E]		G26 [8.5D]		R102 [10.3E]		R541 [7.4C]			
C16 [10.2G]		C410 [13.3C]		C380 [8.4E]		C681 [10.5F]		G27 [8.5D]		R103 [10.3E]		R542 [10.5E]			
C17 [14.3C]		C411 [4.4G]		C381 [8.3E]		C682 [10.4F]		G28 [8.5D]		R104 [12.3H]		R543 [8.2H]			
C18 [10.2G]		C412 [10.2F]		C382 [8.3E]		C683 [10.4F]		G29 [8.5D]		R105 [12.4C]		R544 [10.4E]			
C19 [14.2E]		C413 [13.1G]		C383 [8.3E]		C684 [10.4F]		G30 [8.5D]		R106 [10.4E]		R545 [8.4C]			
C20 [14.2E]		C414 [14.3C]		C384 [8.3E]		C685 [10.4F]		G31 [8.5D]		R107 [10.4E]		R546 [8.4C]			
C21 [10.3F]		C415 [13.1G]		C385 [8.3E]		C686 [10.5F]		G32 [8.5D]		R108 [10.4E]		R547 [8.4C]			
C22 [10.3F]		C416 [14.3C]		C386 [8.3E]		C687 [10.4F]		G33 [8.5D]		R109 [8.4E]		R548 [8.4C]			
C23 [10.3F]		C417 [14.3C]		C387 [8.3E]		C688 [10.4F]		G34 [8.5D]		R110 [10.3D]		R549 [8.4C]			
C24 [12.3G]		C418 [15.1F]		C388 [8.3E]		C689 [8.1C]		G35 [8.5D]		R111 [10.3D]		R550 [8.4C]			
C25 [15.1F]		C419 [15.4G]		C389 [8.3E]		C690 [8.1B]		G36 [14.3C]		R112 [10.3D]		R551 [10.4E]			
C26 [15.1F]		C420 [15.4G]		C390 [8.3E]		C691 [8.2G]		G37 [14.3E]		R113 [11.4E]		R552 [8.4C]			
C27 [15.1F]		C421 [14.2E]		C391 [2.2G]		C692 [2.2G]		G38 [11.4A]		R114 [11.4A]		R553 [8.4C]			
C28 [10.3F]		C422 [14.2E]		C392 [2.2G]		C693 [2.2G]		G39 [11.4B]		R115 [11.4B]		R554 [11.4B]			
C29 [10.3F]		C423 [10.3F]		C393 [2.2G]		C694 [2.2G]		G40 [11.4B]		R116 [2.4H]		R555 [11.4G]			
C30 [10.3F]		C424 [14.3C]		C394 [2.2G]		C695 [2.2G]		G41 [11.4B]		R117 [8.3D]		R556 [7.4C]			
C31 [10.3F]		C425 [14.3C]		C395 [8.4E]		C696 [2.2G]		G42 [11.4B]		R118 [8.3D]		R557 [7.4C]			
C32 [14.1G]		C426 [10.3F]		C396 [8.4E]		C697 [2.2G]		G43 [11.4B]		R119 [8.3D]		R558 [7.4C]			
C33 [15.1E]		C427 [14.3C]		C397 [15.1F]		C698 [2.2G]		G44 [11.4B]		R120 [8.3D]		R559 [7.4C]			
C34 [15.1E]		C428 [14.3C]		C398 [15.1F]		C699 [2.2G]		G45 [11.4B]		R121 [8.3D]		R560 [7.4C]			
C35 [15.1E]		C429 [14.3C]		C399 [15.1F]		C700 [2.2G]		G46 [11.4B]		R122 [8.3D]		R561 [7.4C]			
C36 [15.1E]		C430 [14.3C]		C400 [15.1F]		C701 [2.2G]		G47 [11.4B]		R123 [8.3D]		R562 [7.4C]			
C37 [14.2F]		C431 [14.3C]		C401 [15.1F]		C702 [2.2G]		G48 [11.4B]		R124 [8.3D]		R563 [7.4C]			
C38 [14.2F]		C432 [14.3C]		C402 [15.1F]		C703 [2.2G]		G49 [11.4B]		R125 [8.3D]		R564 [7.4C]			
C39 [14.2F]		C433 [14.3C]		C403 [15.1F]		C704 [2.2G]		G50 [11.4B]		R126 [8.3D]		R565 [7.4C]			
C40 [14.2F]		C434 [14.3C]		C404 [15.1F]		C705 [2.2G]		G51 [11.4B]		R127 [8.3D]		R566 [7.4C]			
C41 [14.2F]		C435 [14.3C]		C405 [15.1F]		C706 [2.2G]		G52 [11.4B]		R128 [8.3D]		R567 [7.4C]			
C42 [14.2F]		C436 [14.3C]		C406 [15.1F]		C707 [2.2G]		G53 [11.4B]		R129 [8.3D]		R568 [7.4C]			
C43 [14.2F]		C437 [14.3C]		C407 [15.1F]		C708 [2.2G]		G54 [11.4B]		R130 [8.3D]		R569 [7.4C]			
C44 [15.2H]		C438 [14.2F]		C408 [8.4E]		C709 [2.2G]		G55 [11.4B]		R131 [8.3D]		R570 [7.4C]			
C45 [14.2H]		C439 [14.2F]		C409 [8.4E]		C710 [2.2G]		G56 [11.4B]		R132 [8.3D]		R571 [7.4C]			
C46 [15.2H]		C440 [14.2F]		C410 [8.4E]		C711 [2.2G]		G57 [11.4B]		R133 [8.3D]		R572 [7.4C]			
C47 [2.1C]		C441 [14.2F]		C411 [7.2H]		C712 [2.2G]		G58 [11.4B]		R134 [8.3D]		R573 [7.4C]			
C48 [15.3H]		C442 [14.2F]		C412 [2.5G]		C713 [2.2G]		G59 [11.4B]		R135 [8.3D]		R574 [7.4C]			
C49 [2.1C]		C443 [14.2F]		C413 [2.5G]		C714 [2.2G]		G60 [11.4B]		R136 [8.3D]		R575 [7.4C]			
C50 [2.1G]		C444 [14.2F]		C414 [2.5G]		C715 [2.2G]		G61 [11.4B]		R137 [8.3D]		R576 [7.4C]			
C51 [11.2A]		C445 [14.2F]		C415 [2.5G]		C716 [2.2G]		G62 [11.4B]		R138 [8.3D]		R577 [7.4C]			
C52 [11.2G]		C446 [14.2F]		C416 [2.5G]		C717 [2.2G]		G63 [11.4B]		R139 [8.3D]		R578 [7.4C]			
C53 [15.2G]		C447 [14.2F]		C417 [2.5G]		C718 [2.2G]		G64 [11.4B]		R140 [8.3D]		R579 [7.4C]			
C54 [15.2G]		C448 [14.2F]		C418 [2.5G]		C719 [2.2G]		G65 [11.4B]		R141 [8.3D]		R580 [7.4C]			
C55 [15.2G]		C449 [14.2F]		C419 [2.5G]		C720 [2.2G]		G66 [11.4B]		R142 [8.3D]		R581 [7.4C]			
C56 [15.2G]		C450 [14.2F]		C420 [2.5G]		C721 [2.2G]		G67 [11.4B]		R143 [8.3D]		R582 [7.4C]			
C57 [15.2G]		C451 [14.2F]		C421 [2.5G]		C722 [2.2G]		G68 [11.4B]		R144 [8.3D]		R583 [7.4C]			
C58 [15.2G]		C452 [14.2F]		C422 [2.5G]		C723 [2.2G]		G69 [11.4B]		R145 [8.3D]		R584 [7.4C]			
C59 [8.4C]		C453 [14.2F]		C423 [2.5G]		C724 [2.2G]		G70 [11.4B]		R146 [8.3D]		R585 [7.4C]			
C60 [12.2A]		C454 [14.2F]		C424 [2.5G]		C725 [2.2G]		G71 [11.4B]		R147 [8.3D]		R586 [7.4C]			
C61 [8.4C]		C455 [14.2F]		C425 [2.5G]		C726 [2.2G]		G72 [11.4B]		R148 [8.3D]		R587 [7.4C]			
C62 [12.2F]		C456 [14.2F]		C426 [2.5G]		C727 [2.2G]		G73 [11.4B]		R149 [8.3D]		R588 [7.4C]			
C63 [8.4C]		C457 [14.2F]		C427 [2.5G]		C728 [2.2G]		G74 [11.4B]		R150 [8.3D]		R589 [7.4C]			
C64 [8.4A]		C458 [14.2F]		C428 [2.5G]		C729 [2.2G]		G75 [11.4B]		R151 [8.3D]		R590 [7.4C]			
C65 [8.3H]		C459 [14.2F]		C429 [2.5G]		C730 [2.2G]		G76 [11.4B]		R152 [8.3D]		R591 [7.4C]			
C66 [8.3H]		C460 [14.2F]		C430 [2.5G]		C731 [2.2G]		G77 [11.4B]		R153 [8.3D]		R592 [7.4C]			
C67 [2.2H]		C461 [14.2F]		C431 [2.5G]		C732 [2.2G]		G78 [11.4B]		R154 [8.3D]		R593 [7.4C]			
C68 [2.2H]		C462 [14.2F]		C432 [2.5G]		C733 [2.2G]		G79 [11.4B]		R155 [8.3D]		R594 [7.4C]			
C69 [4.4F]		C463 [14.2F]		C433 [2.5G]		C734 [2.2G]		G80 [11.4B]		R156 [8.3D]		R595 [7.4C]			
C70 [2.2G]		C464 [14.2F]		C434 [2.5G]		C735 [2.2G]		G81 [11.4B]		R157 [8.3D]		R596 [7.4C]			
C71 [4.4F]		C465 [14.2F]		C435 [2.5G]		C736 [2.2G]		G82 [11.4B]		R158 [8.3D]		R597 [7.4C]			
C72 [4.4H]		C466 [14.2F]		C436 [2.5G]		C737 [2.2G]		G83 [11.4B]		R159 [8.3D]		R598 [7.4C]			
C73 [8.4H]		C467 [14.2F]		C437 [2.5G]		C738 [2.2G]		G84 [11.4B]		R160 [8.3D]		R599 [7.4C]			
C74 [4.4F]		C468 [14.2F]		C438 [2.5G]		C739 [2.2G]		G85 [11.4B]		R161 [8.3D]		R600 [7.4C]			
C75 [4.4H]		C469 [14.2F]		C439 [2.5G]		C740 [2.2G]		G86 [11.4B]		R162 [8.3D]		R601 [7.4C]			
C76 [5.9H]		C470 [14.2F]		C440 [2.5G]		C741 [2.2G]		G87 [11.4B]		R163 [8.3D]		R602 [7.4C]			
C77 [8.4G]		C471 [14.2F]		C441 [2.5G]		C742 [2.2G]		G88 [11.4B]		R164 [8.3D]		R603 [7.4C]			
C78 [4.4F]		C472 [14.2F]		C442 [2.5G]		C743 [2.2G]		G89 [11.4B]		R165 [8.3D]		R604 [7.4C]			
C79 [4.4F]		C473 [14.2F]		C443 [2.5G]		C744 [2.2G]		G90 [11.4B]		R166 [8.3D]		R605 [7.4C]			
C80 [8.3G]		C474 [14.2F]		C444 [2.5G]		C745 [2.2G]		G91 [11.4B]		R167 [8.3D]		R606 [7.4C]			
C81 [4.9H]		C475 [14.2F]		C445 [2.5G]		C746 [2.2G]		G92 [11.4B]		R168 [8.3D]		R607 [7.4C]			
C82 [8.3H]		C476 [14.2F]		C446 [2.5G]		C747 [2.2G]		G93 [11.4B]		R169 [8.3D]		R608 [7.4C]			
C83 [8.5G]		C477 [14.2F]		C447 [2.5G]		C748 [2.2G]		G94 [11.4B]		R170 [8.3D]		R609 [7.4C]			
C84 [4.4H]		C478 [14.2F]		C448 [2.5G]		C749 [2.2G]		G95 [11.4B]		R171 [8.3D]		R610 [7.4C]			
C85 [4.5G]		C479 [14.2F]		C449 [2.5G]		C750 [2.2G]		G96 [11.4B]		R172 [8.3D]		R611 [7.4C]			
C86 [4.5G]		C480 [14.2F]		C450 [2.5G]		C751 [2.2G]		G97 [11.4B]		R173 [8.3D]		R612 [7.4C]			
C87 [8.4G]		C481 [14.2F]		C451 [2.5G]		C752 [2.2G]		G98 [11.4B]		R174 [8.3D]		R613 [7.4C]			
C88 [4.4G]		C482 [14.2F]		C452 [2.5G]		C753 [2.2G]		G99 [11.4B]		R175 [8.3D]		R614 [7.4C]			
C89 [4.4H]		C483 [14.2F]		C453 [2.5G]		C754 [2.2G]		G100 [11.4B]		R176 [8.3D]		R615 [7.4C]			
C90 [4.4H]		C484 [14.2F]		C454 [2.5G]		C755 [2.2G]		G101 [11.4B]		R177 [8.3D]		R616 [7.4C]			
C91 [4.4F]		C485 [14.2F]		C455 [2.5G]		C756 [2.2G]		G102 [11.4B]		R178 [8.3D]		R6			