

Bryce Canyon

Front Drive Plan Board 36 HDDs

PCB P/N: 16315
Version: 1
Layer: 12 Layers

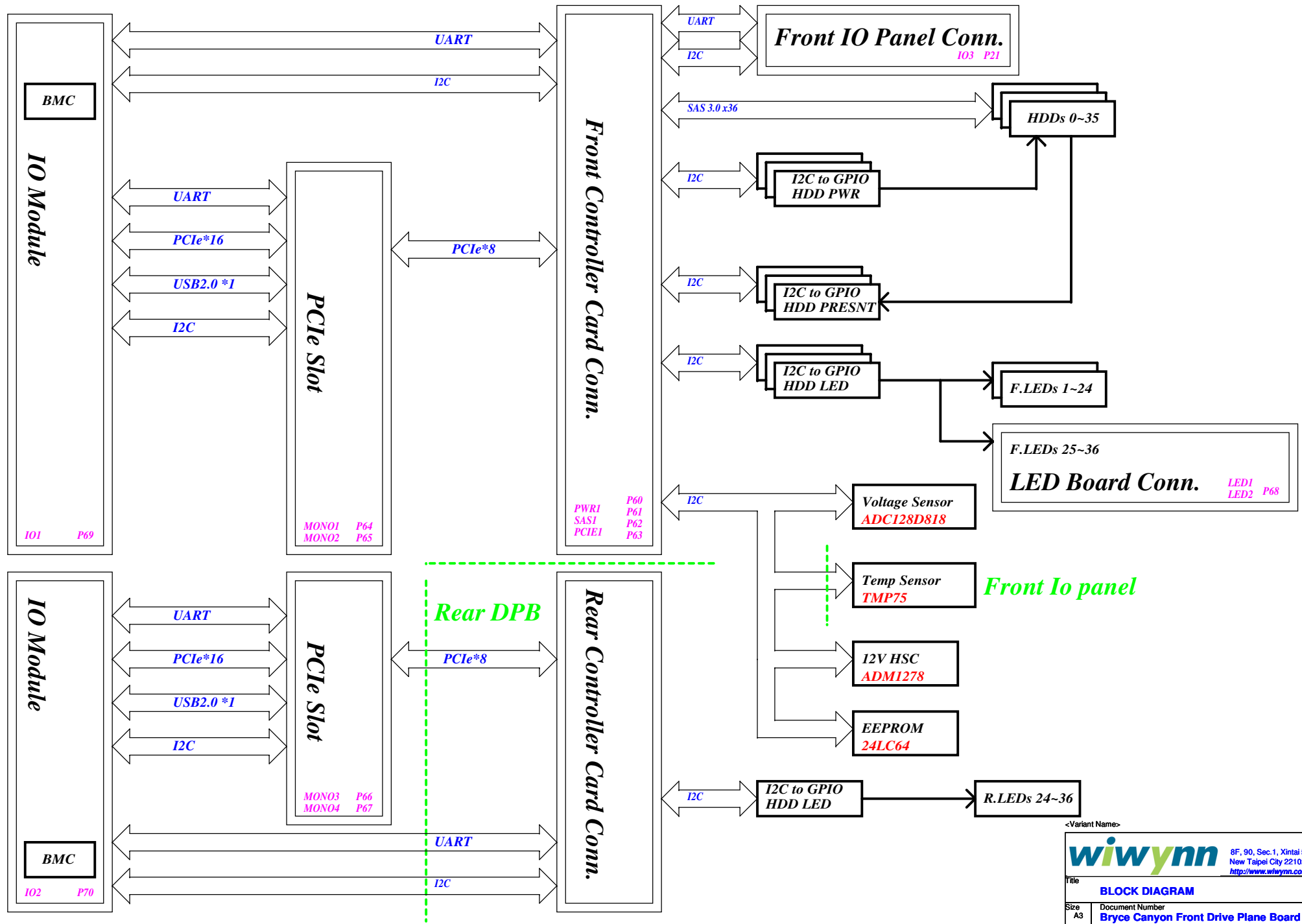
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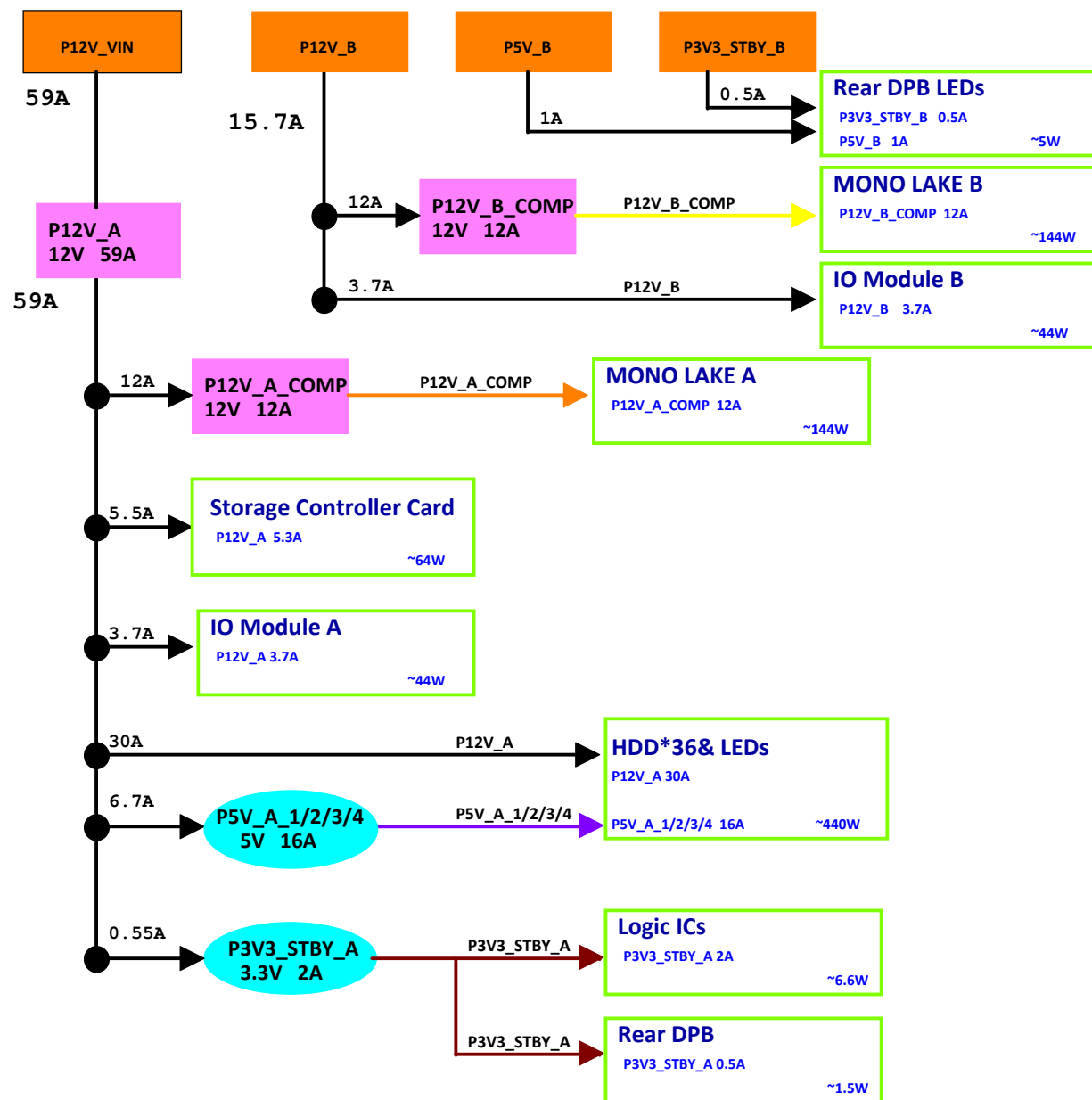
Block Diagram



POWER DISTRIBUTION

VR SWITCHING

POWER SWITCH



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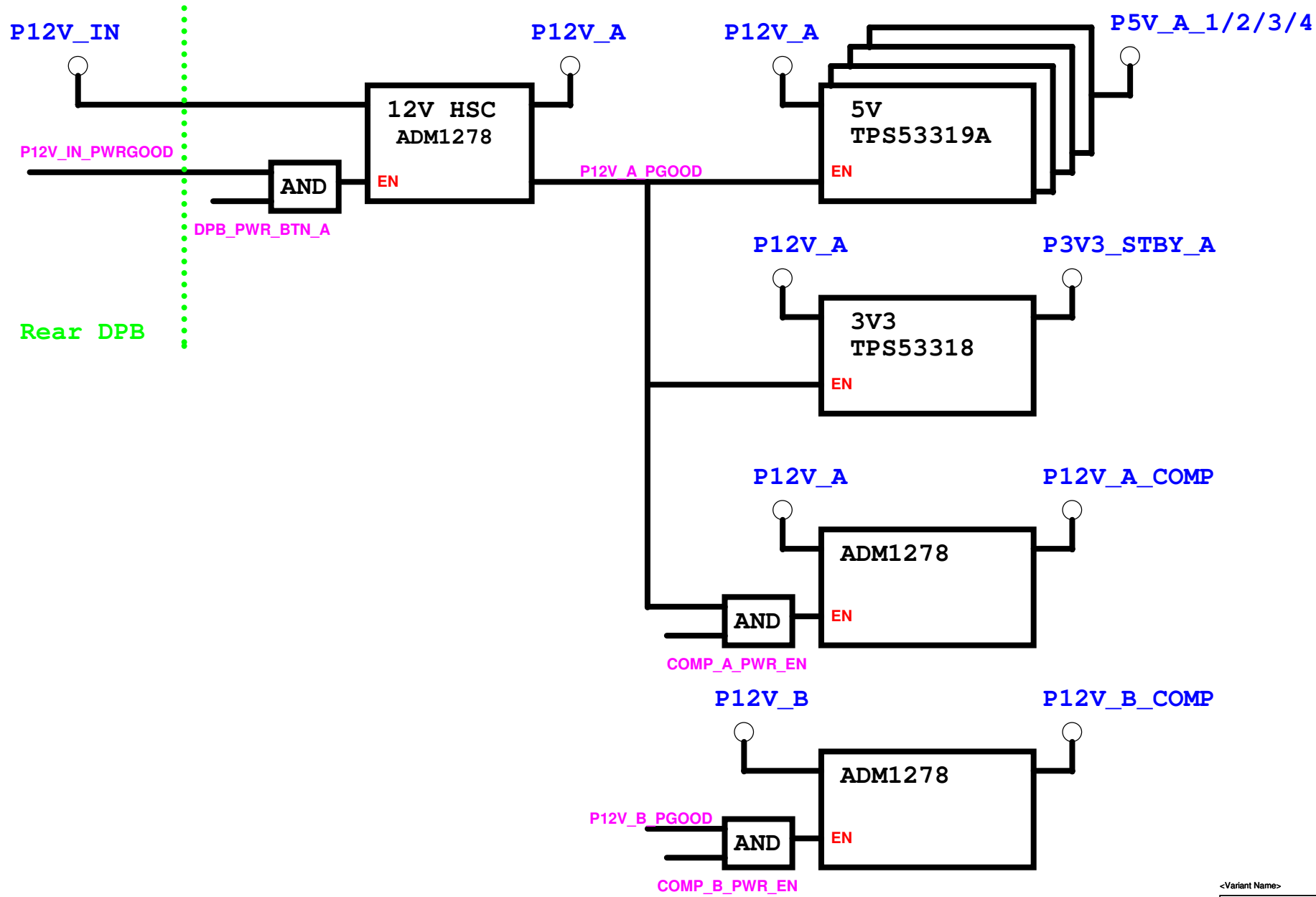
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POWER DISTRIBUTION

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Power Flow



Reserved

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Title

POWER SEQUENCE

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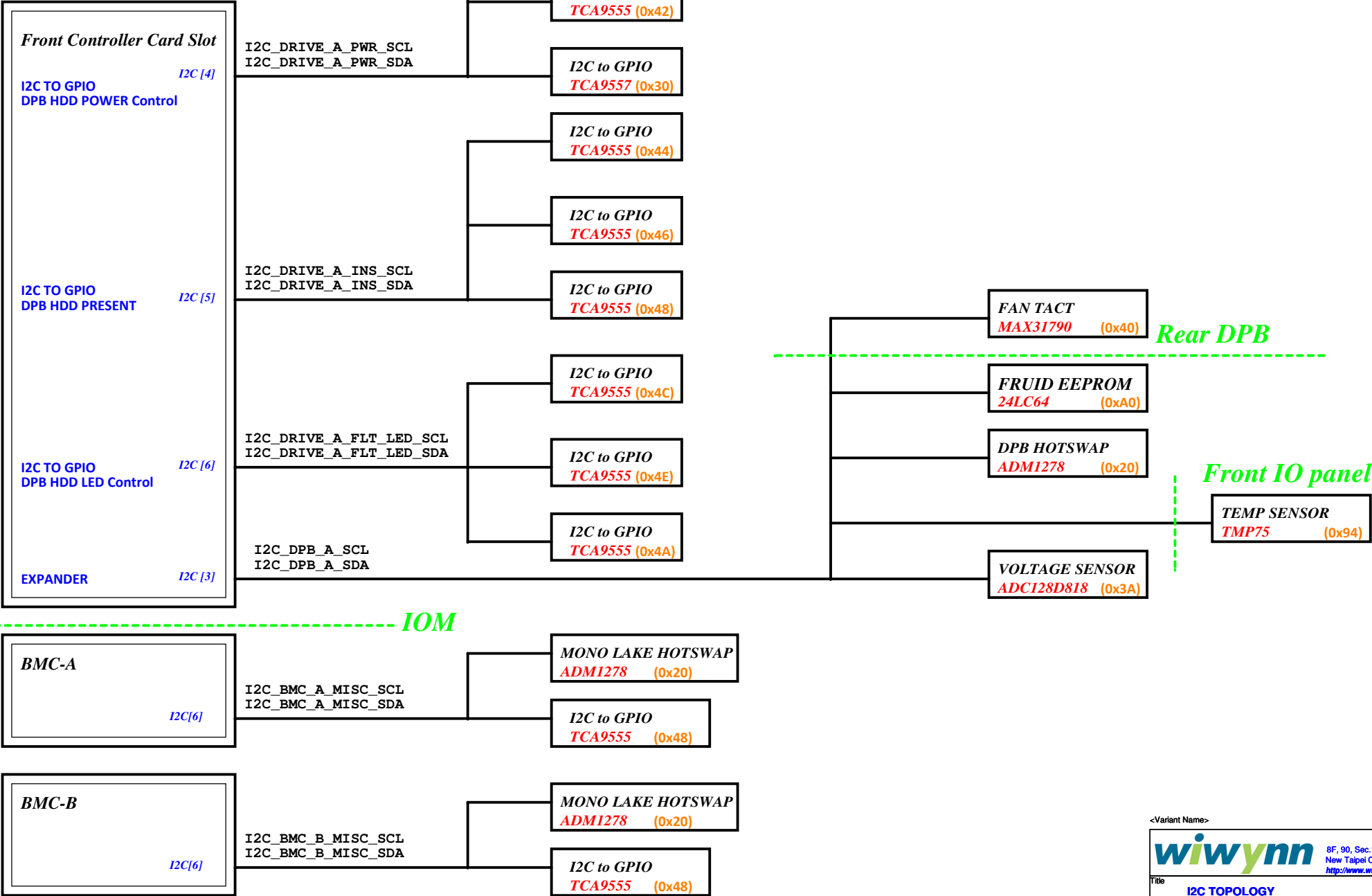
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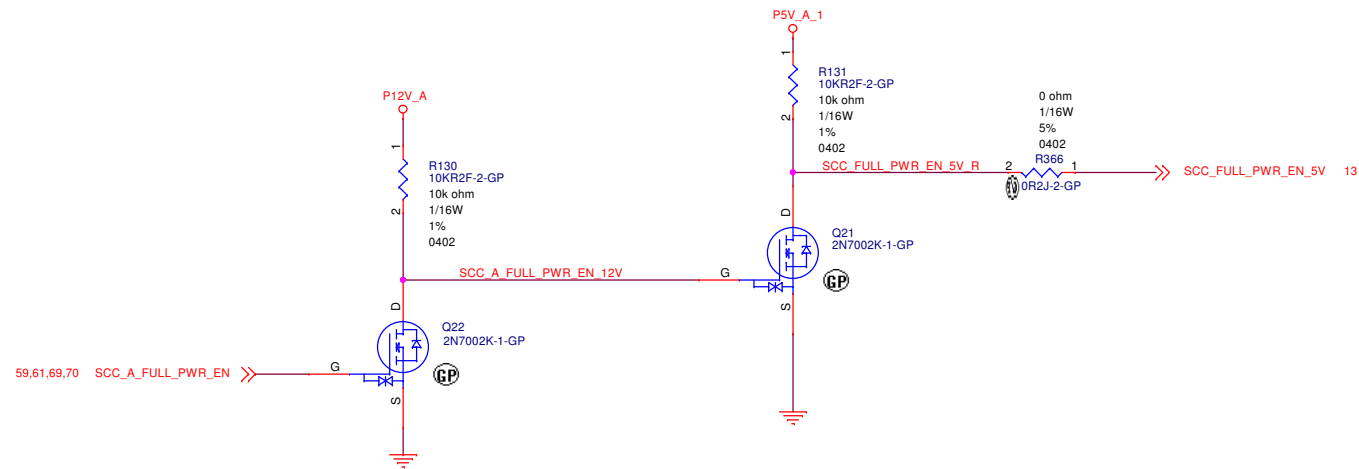
STACK-UP INFORMATION

Board Number: 16315-SF										Version 01									
Project name: Bryce Canyon																			
Model Name: Front Drive Plane Board																			
Layer Count: 12 Layer																			
Date: 2017/4/28																			
Low Loss Material: TU863+VLP (Tg : 170/Td : 320)																			
Gold Finger(Y/N): N																			
Customer: Fiona																			
EE engineer: Kent Tsai																			
SI Engineer: Harrison Lin																			


I2C TOPOLOGY



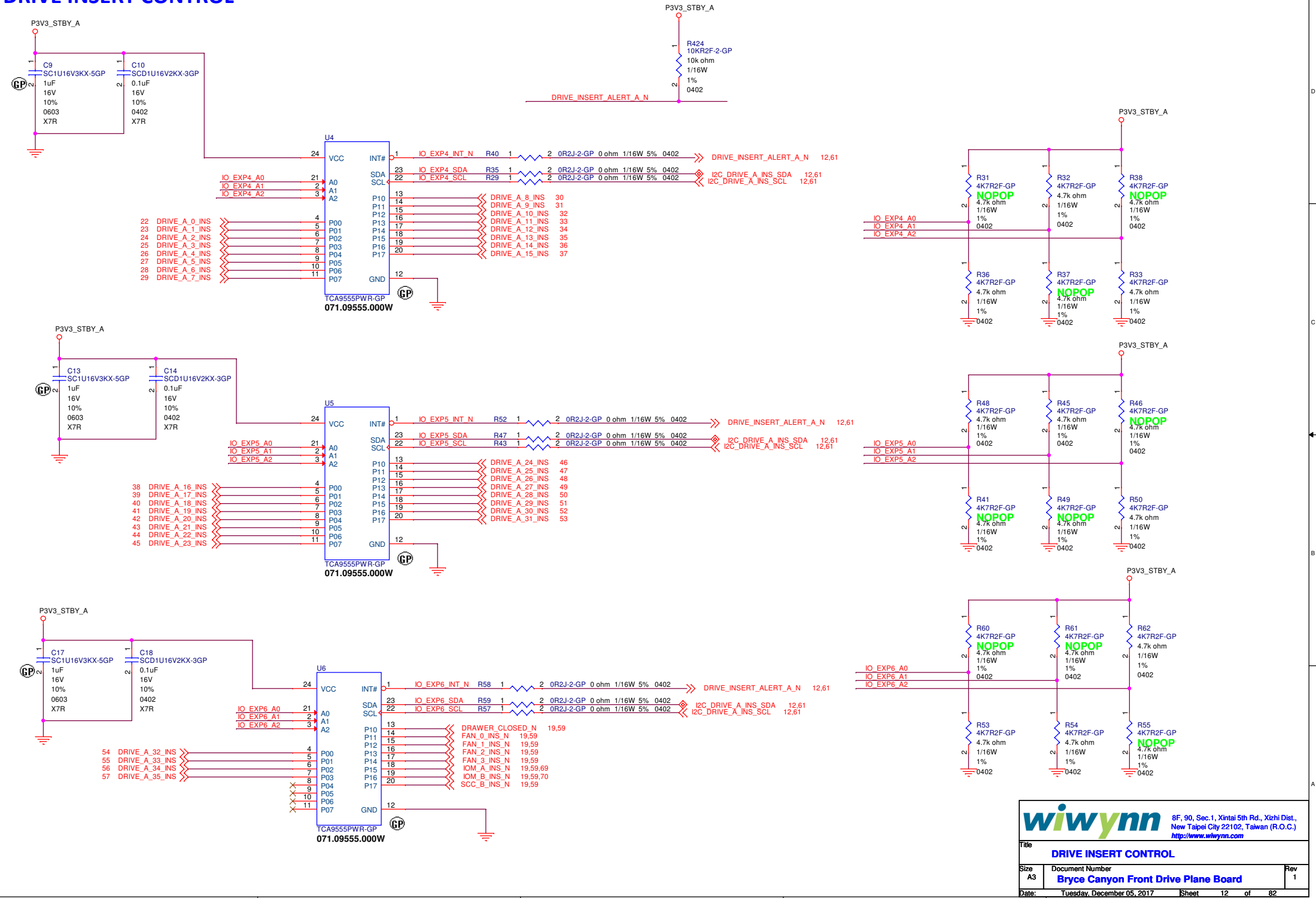
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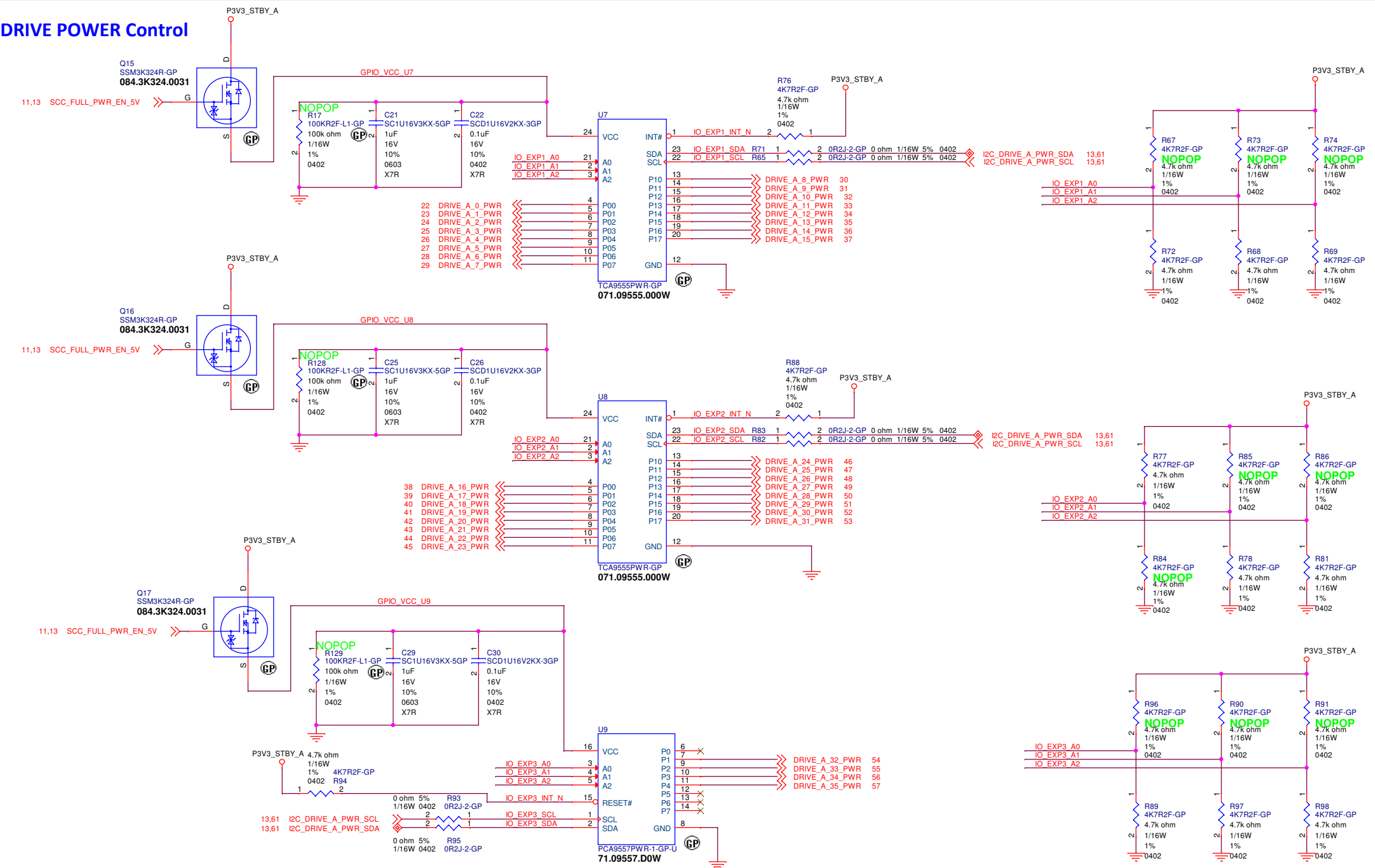
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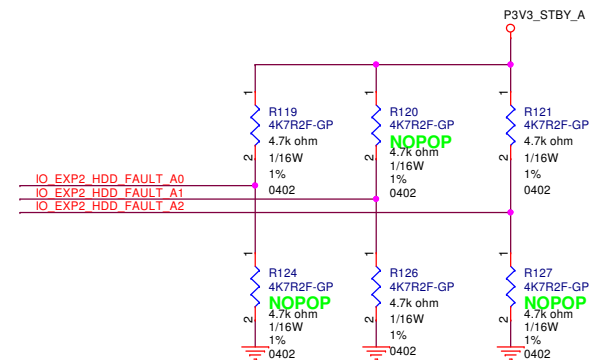
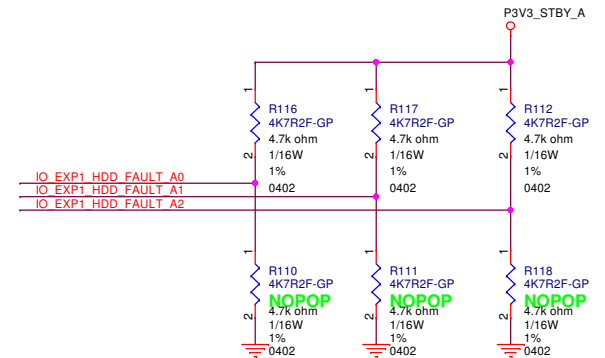
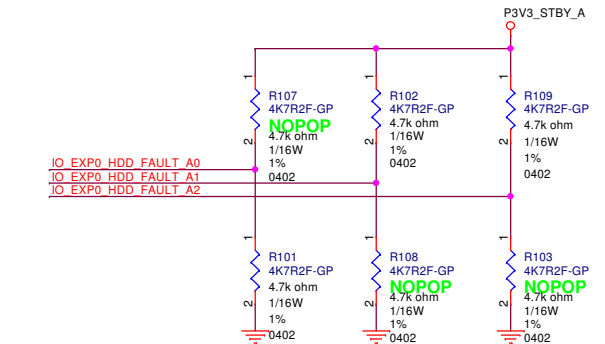
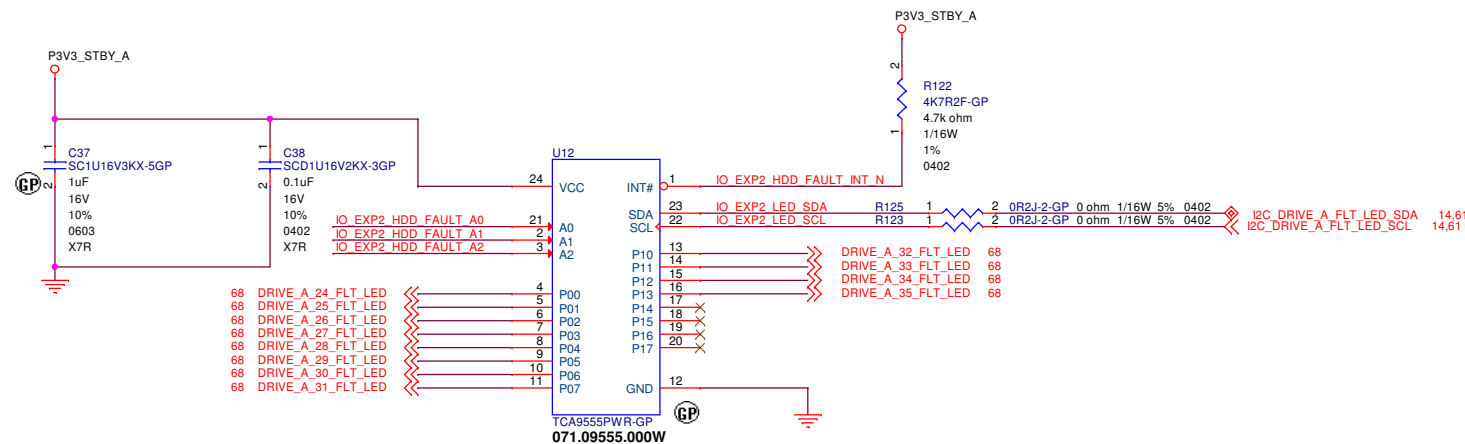
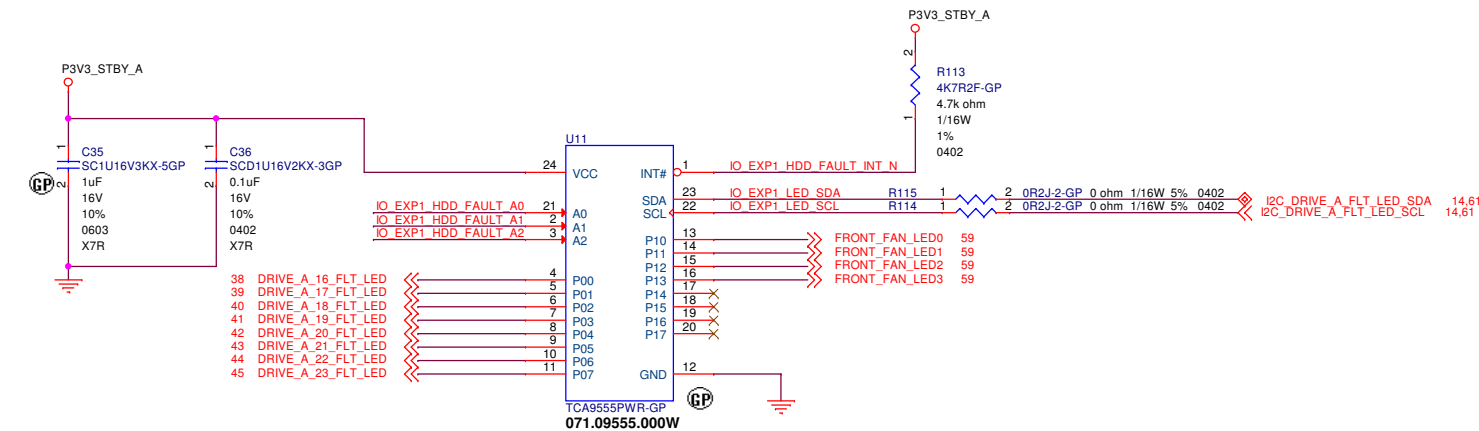
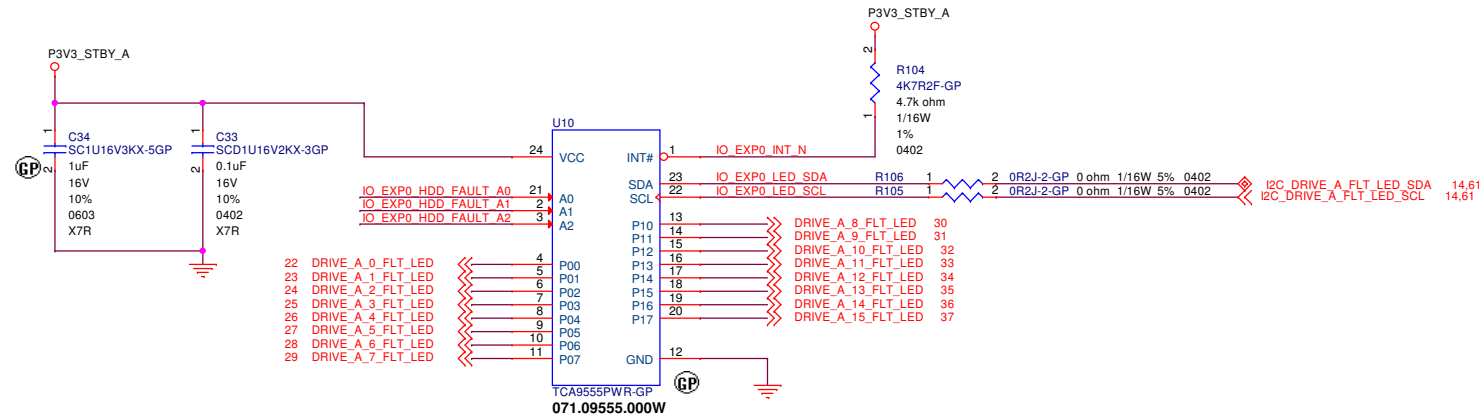
DRIVE INSERT CONTROL



DRIVE POWER Control



DRVIE FAULT LED CONTROL

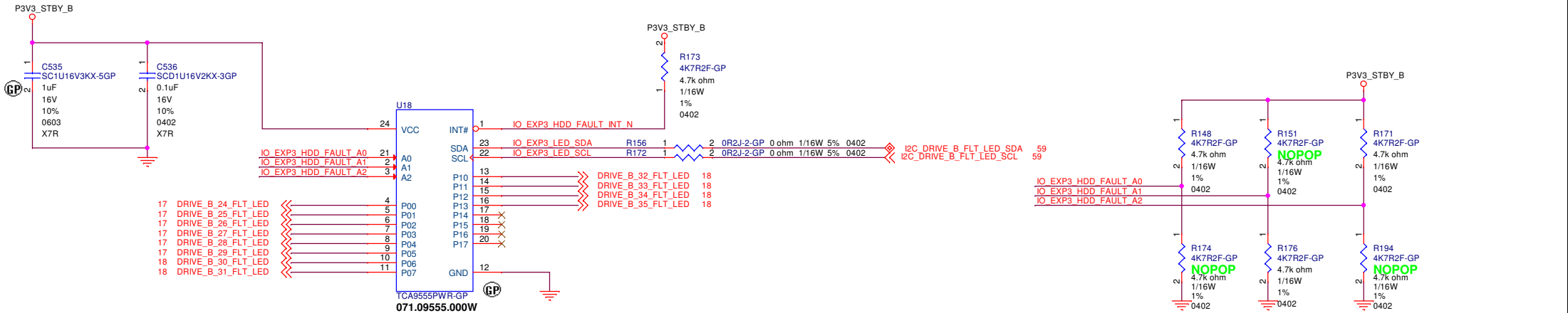


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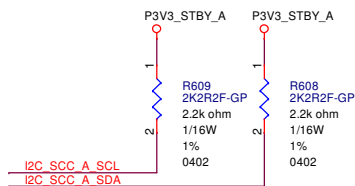
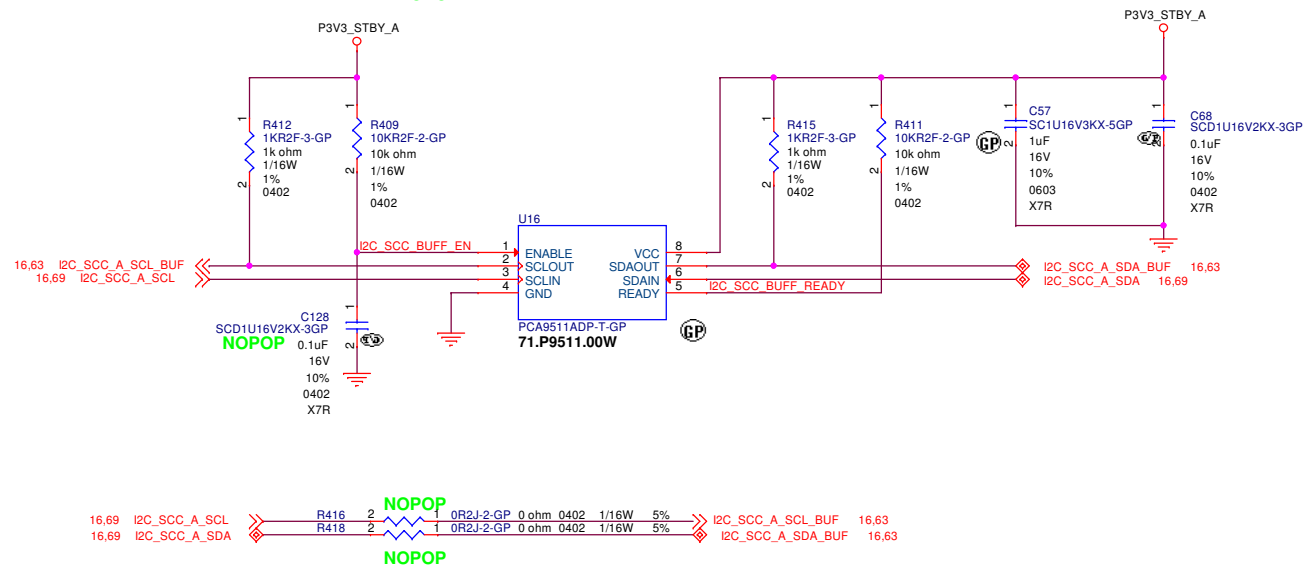
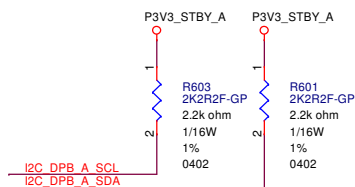
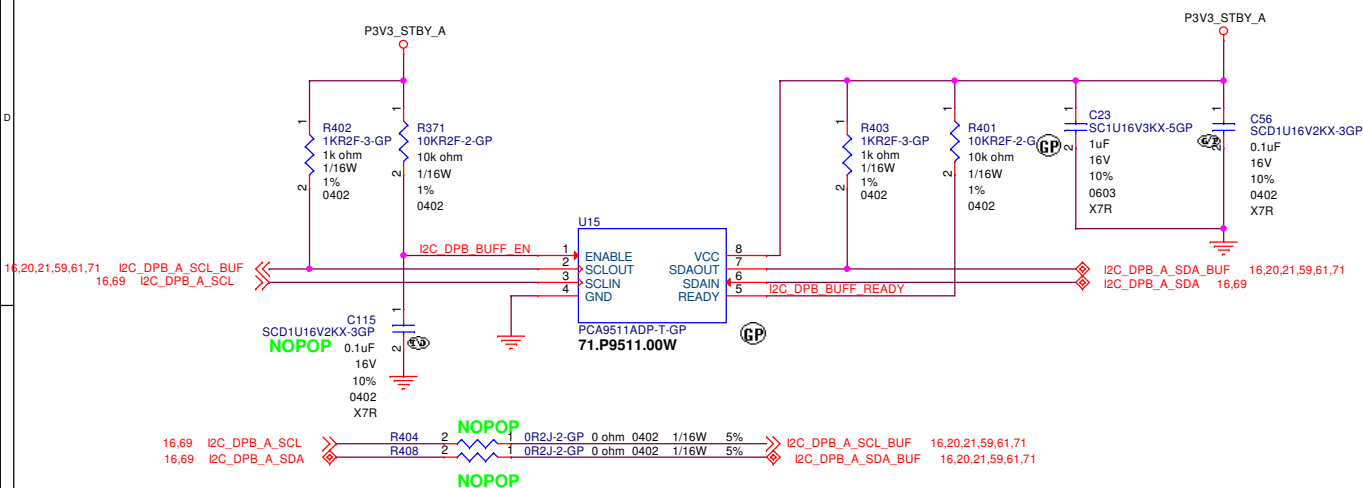
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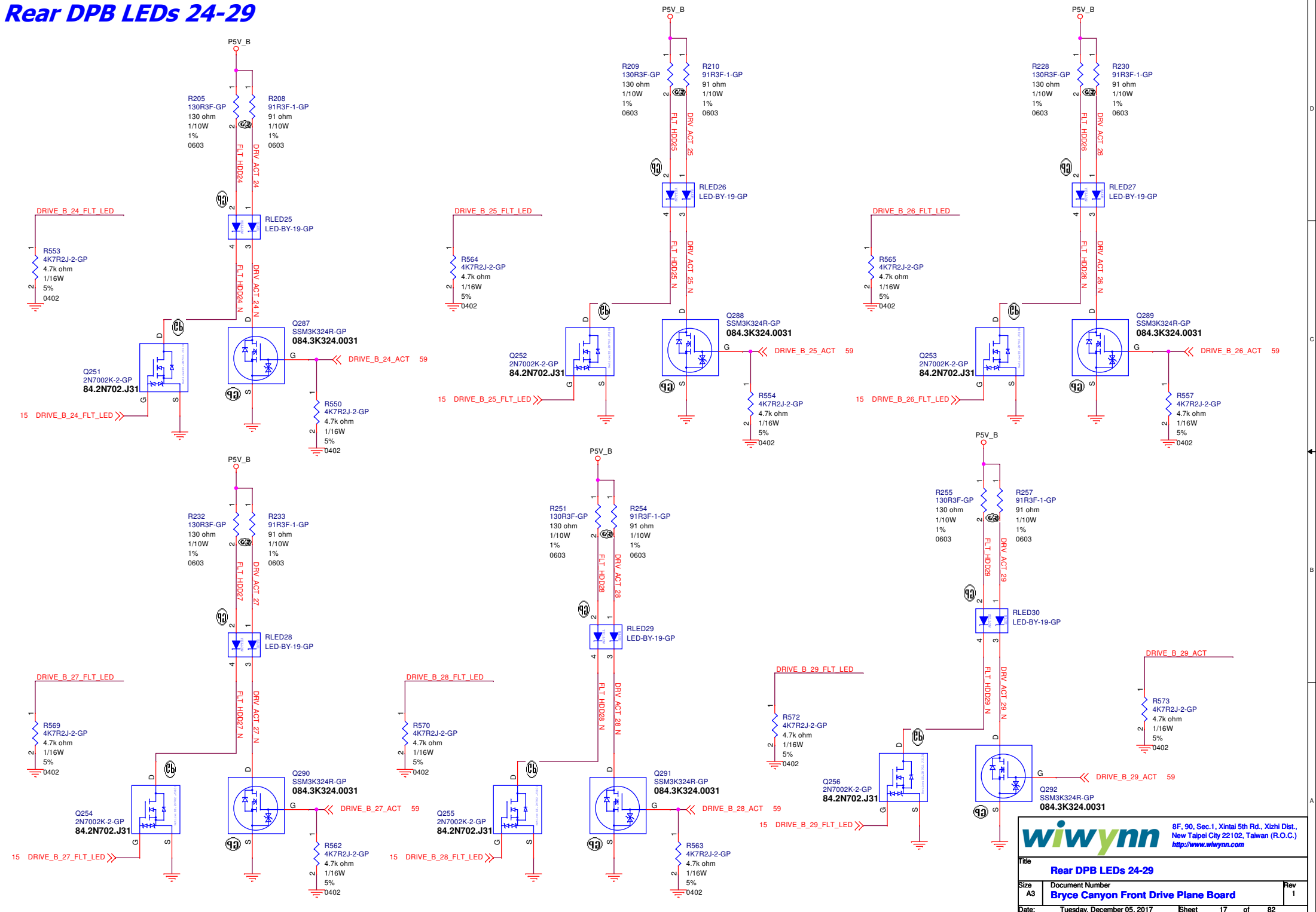
REAR DPB DRVIE FAULT LED CONTROL



I2C BUFFER



Rear DPB LEDs 24-29

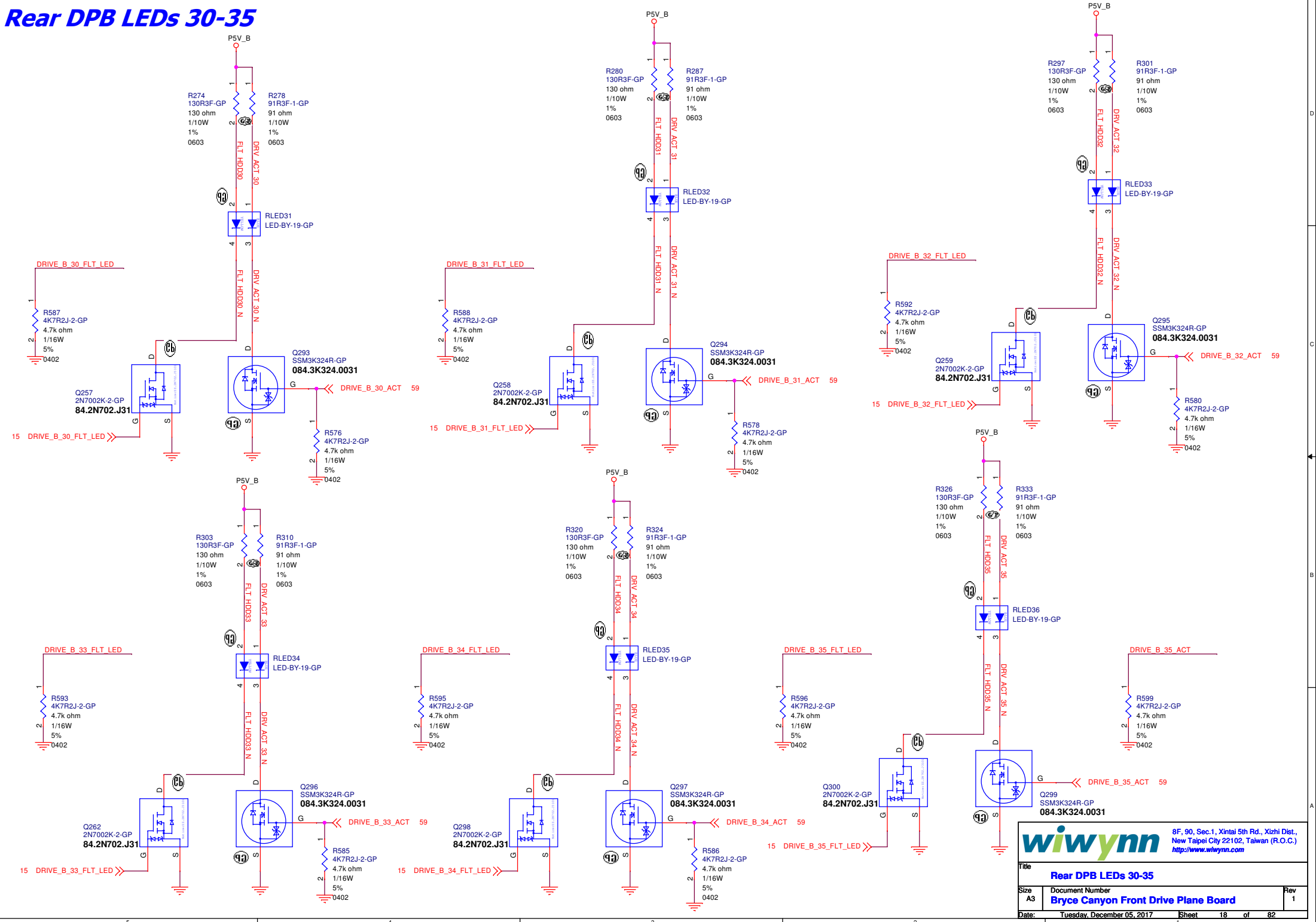




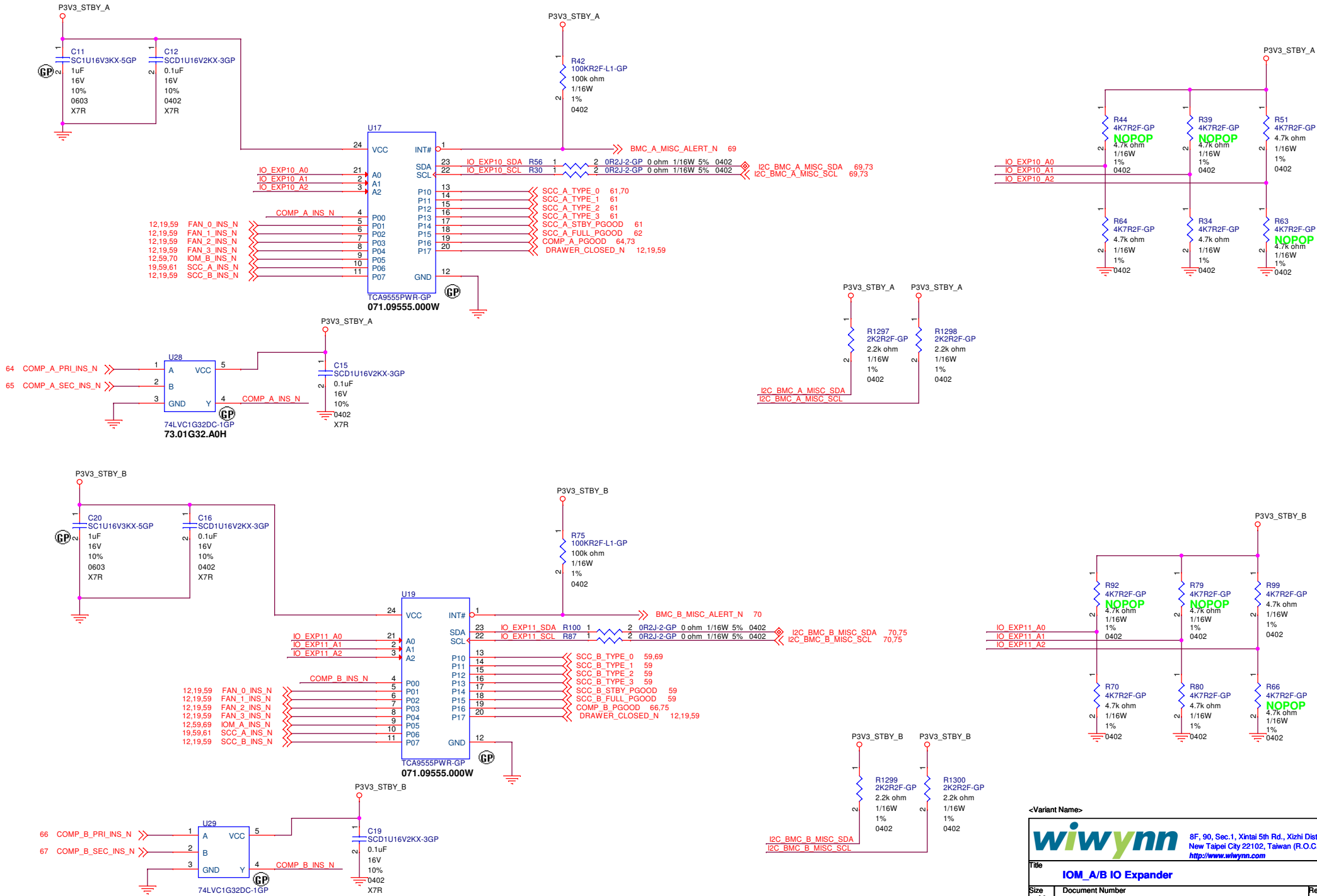
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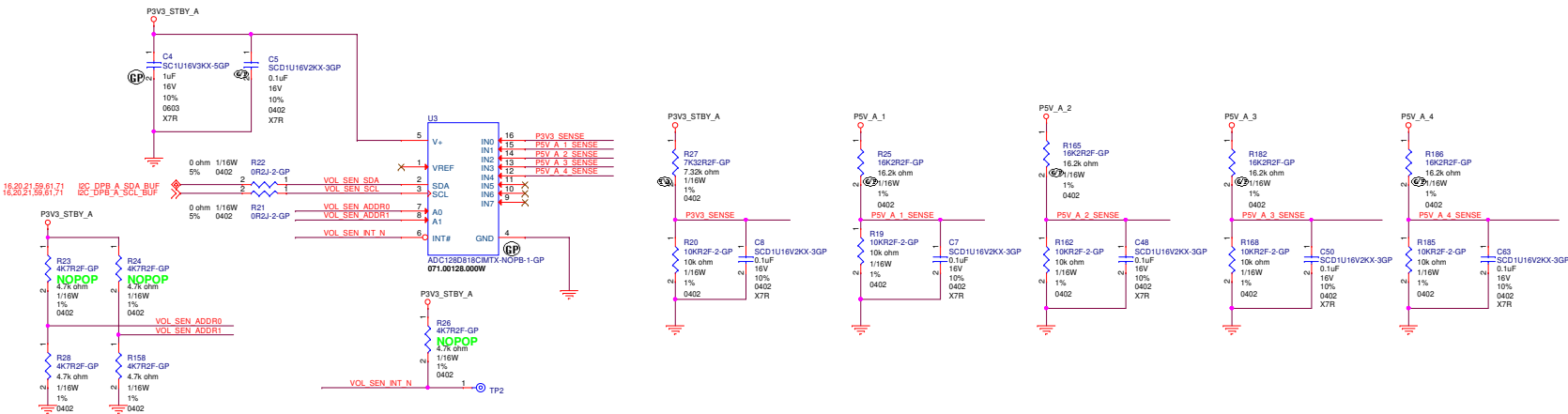
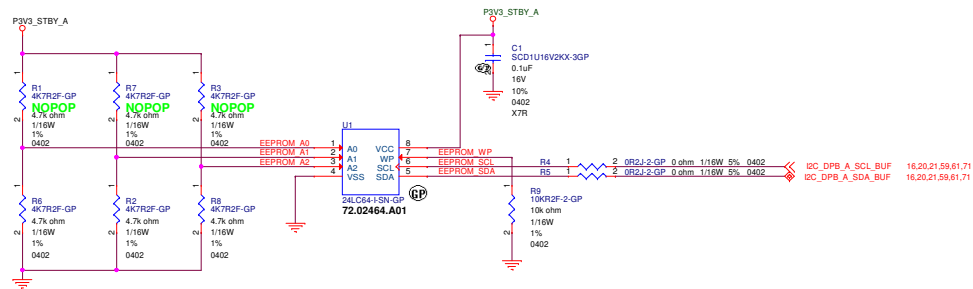
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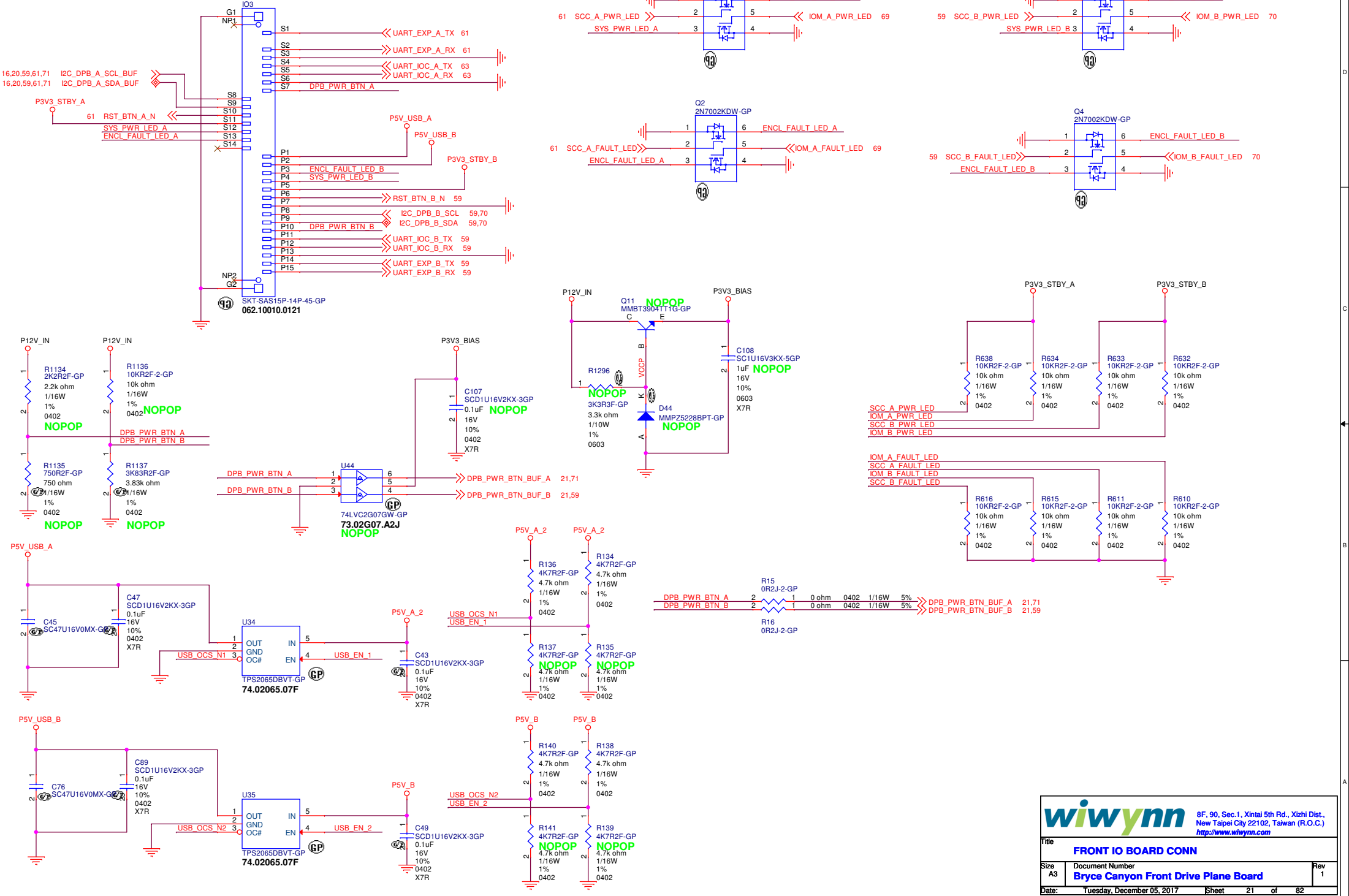
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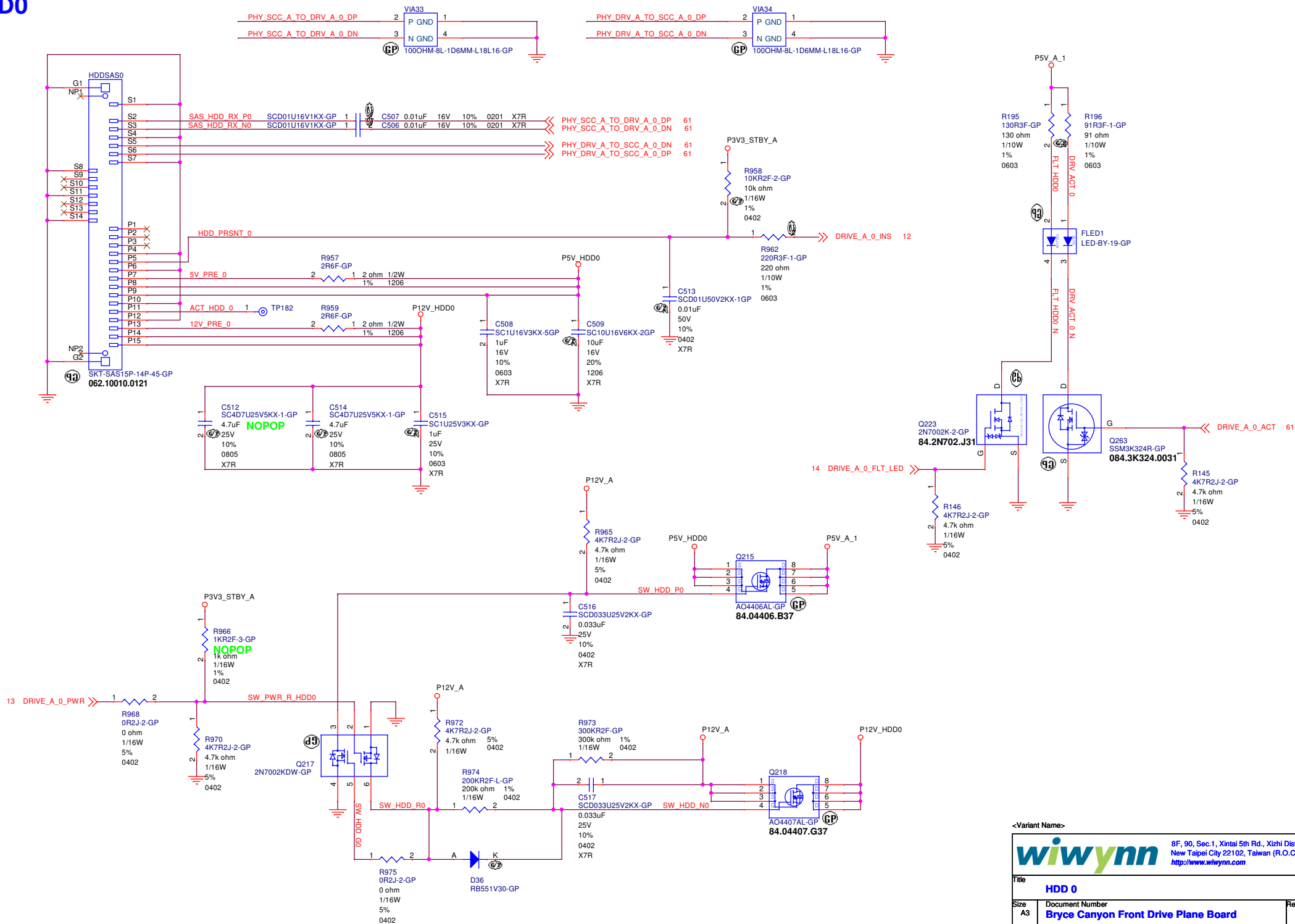
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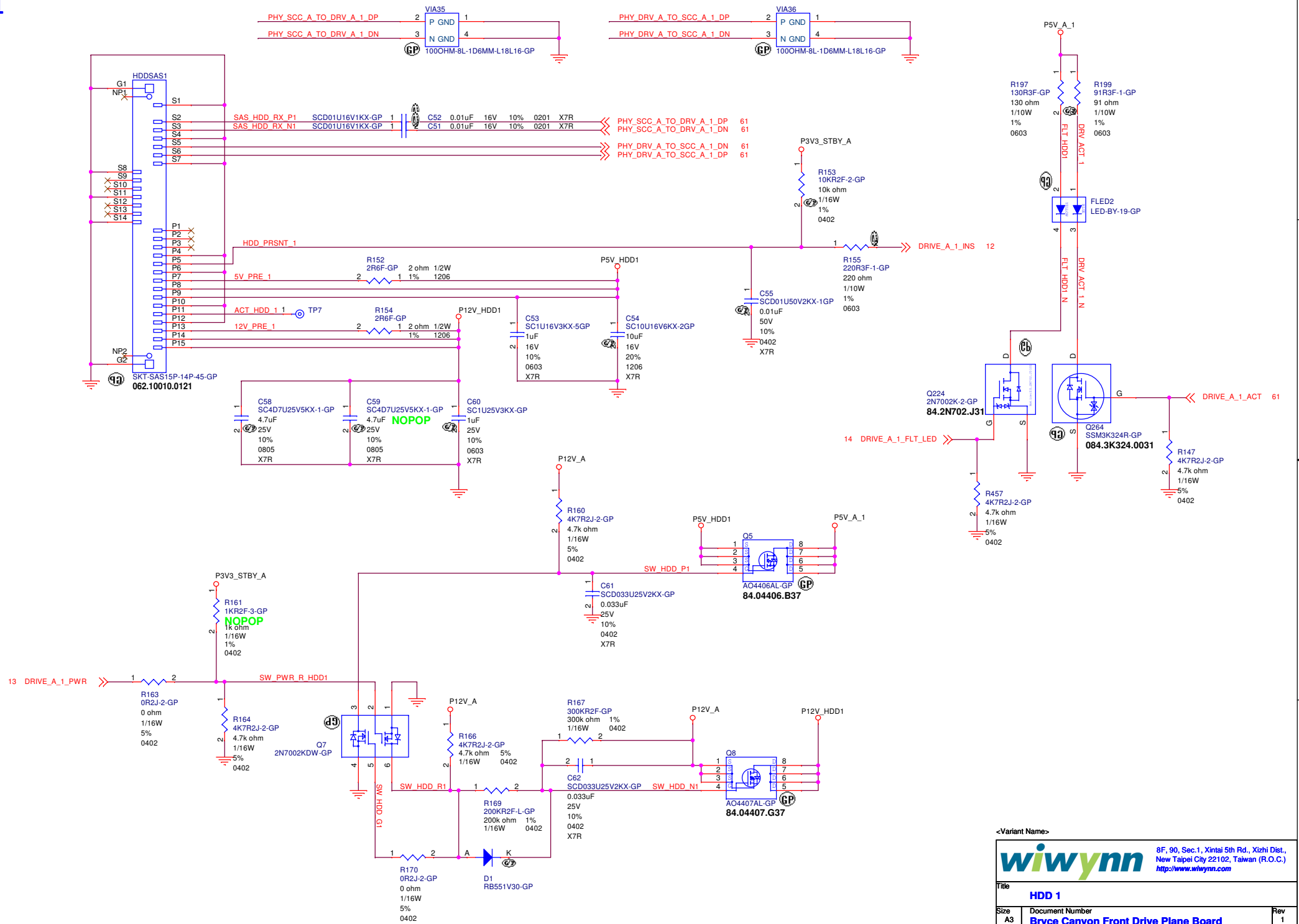
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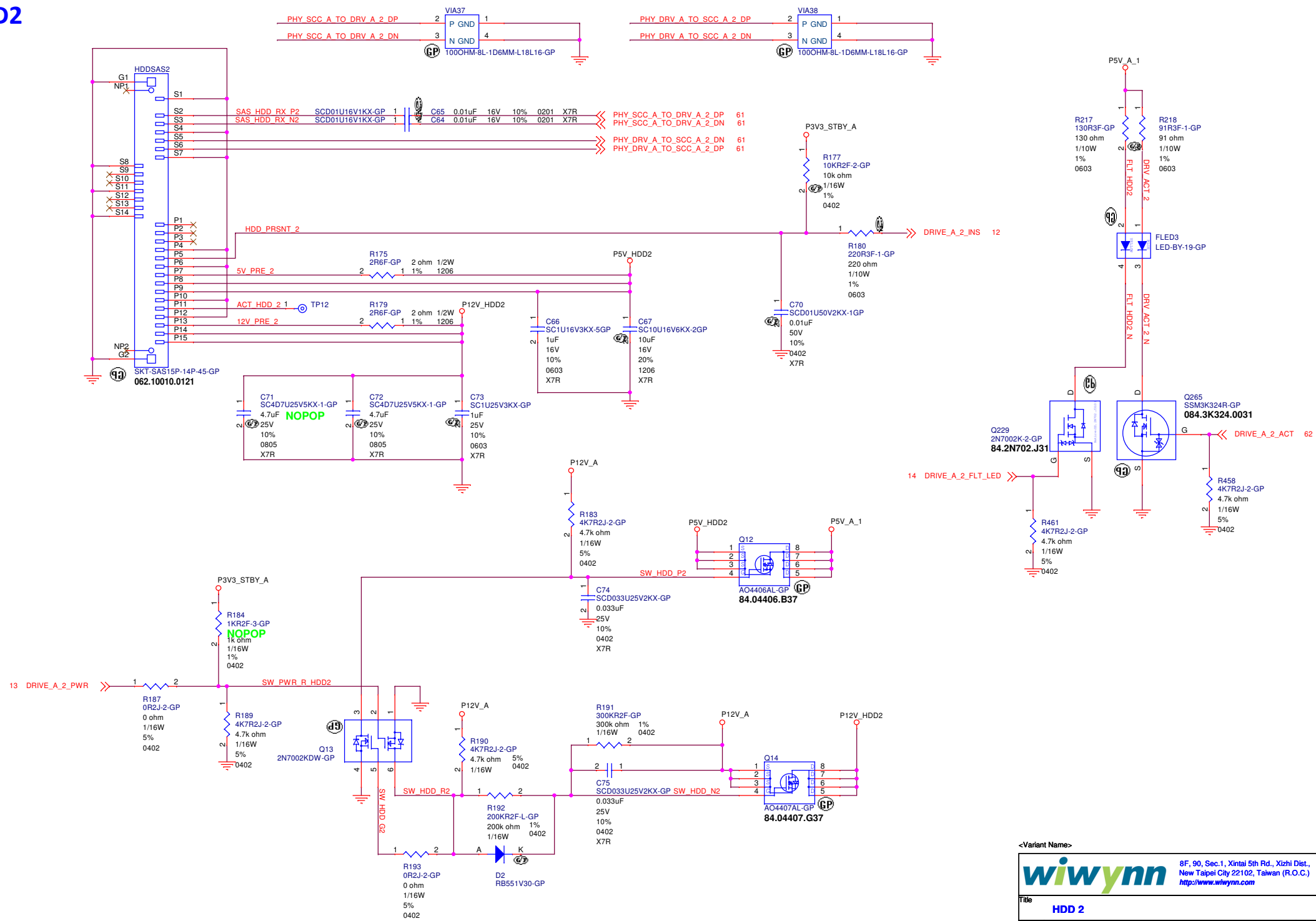
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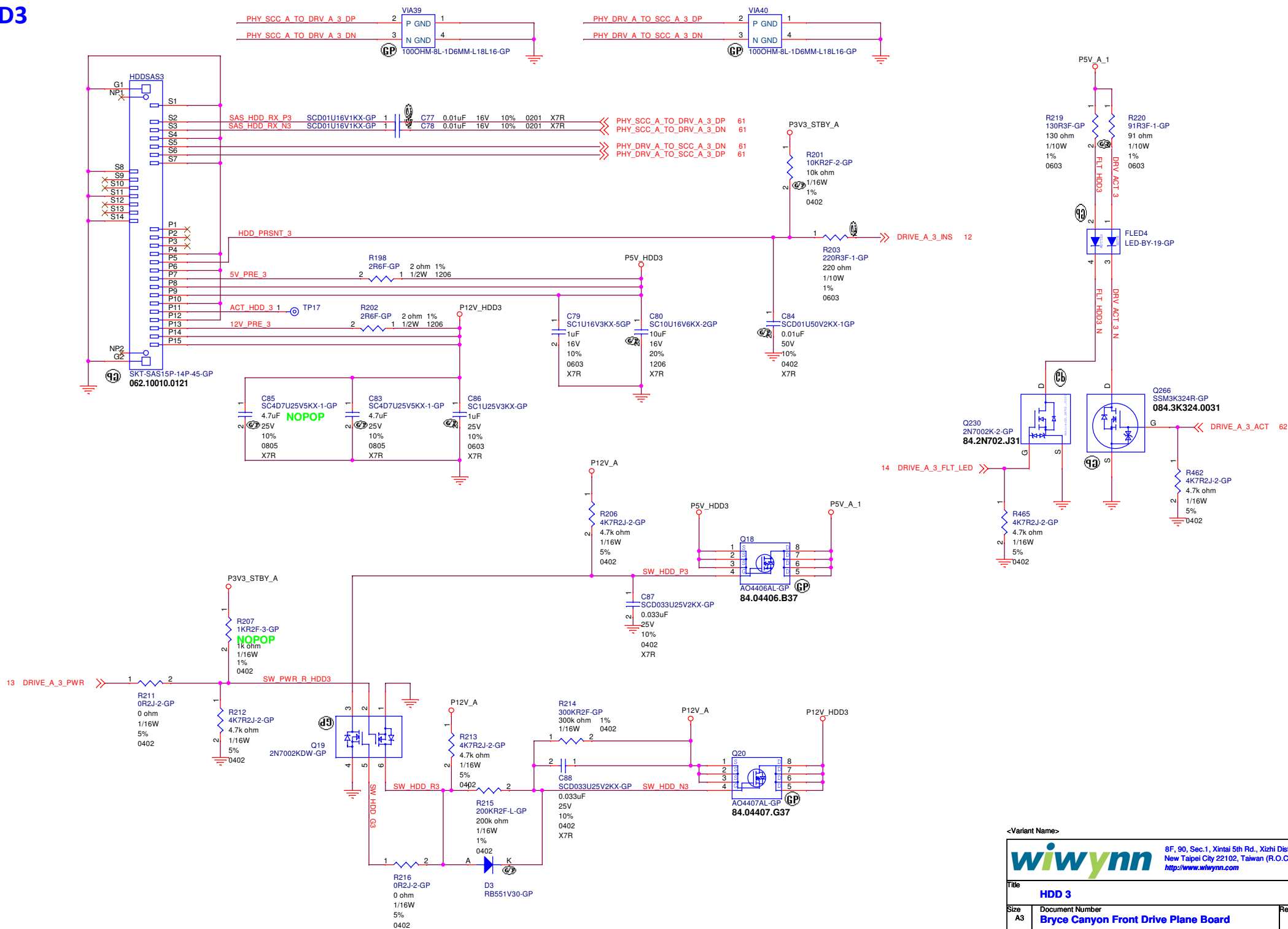
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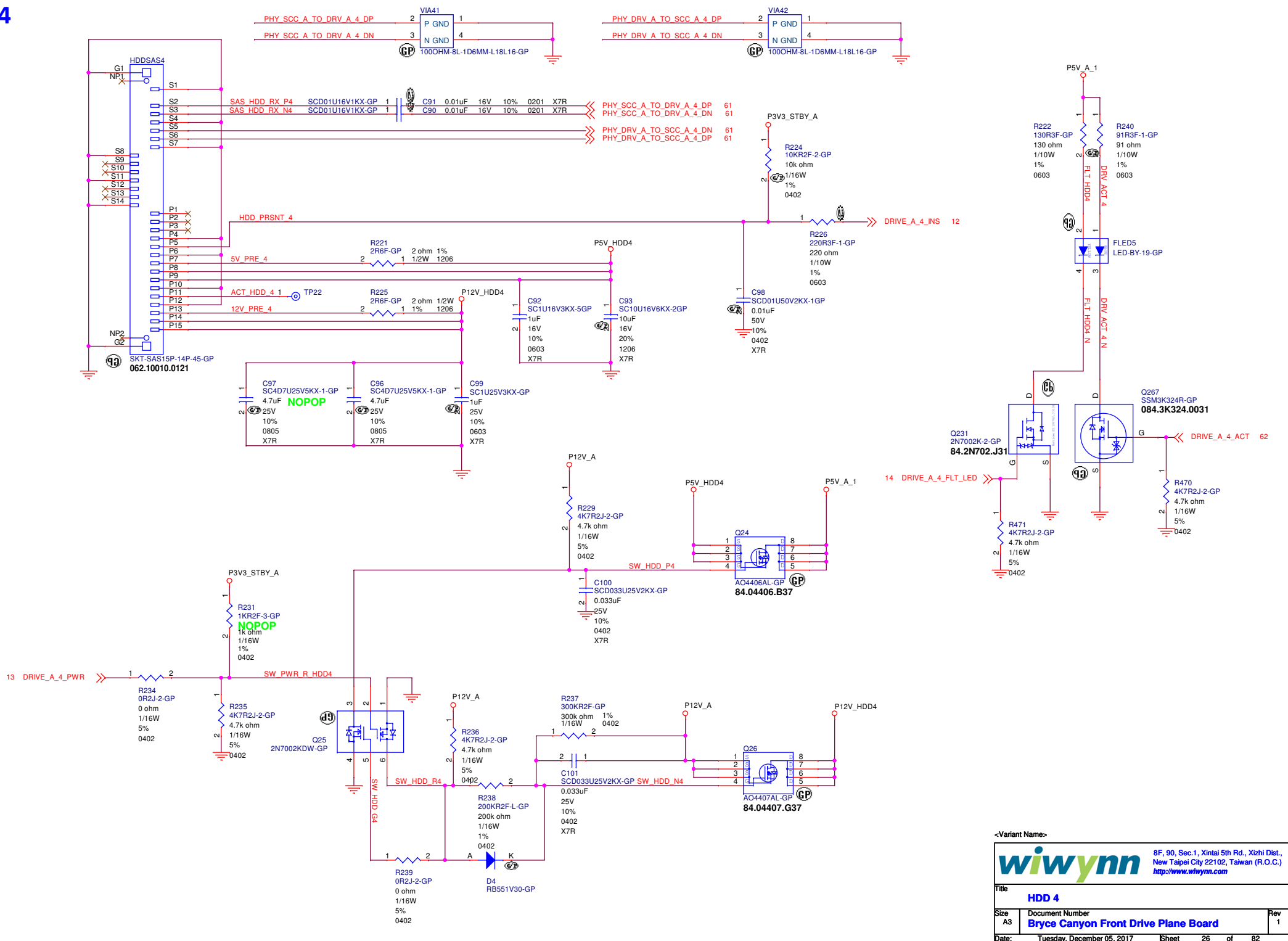
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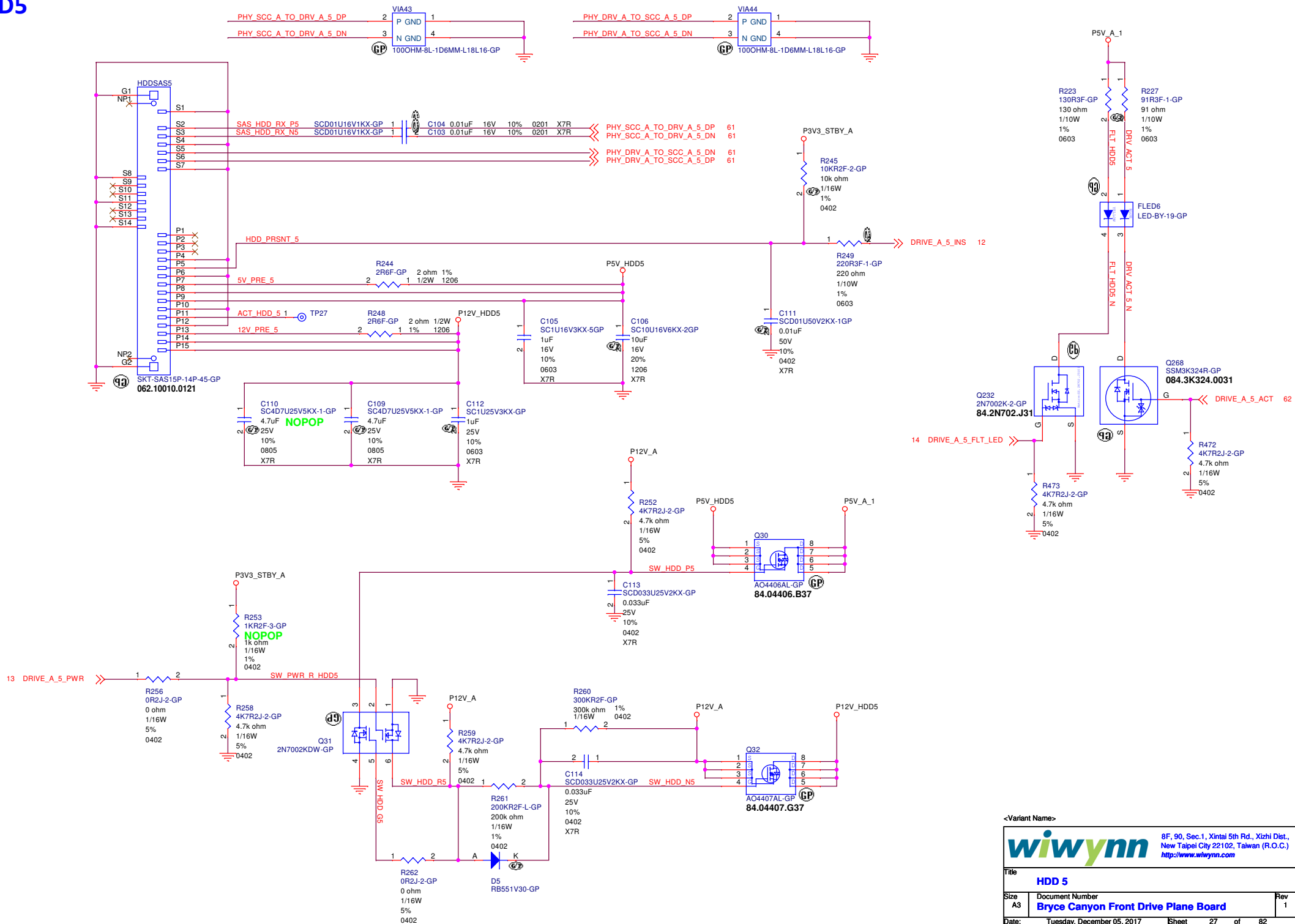
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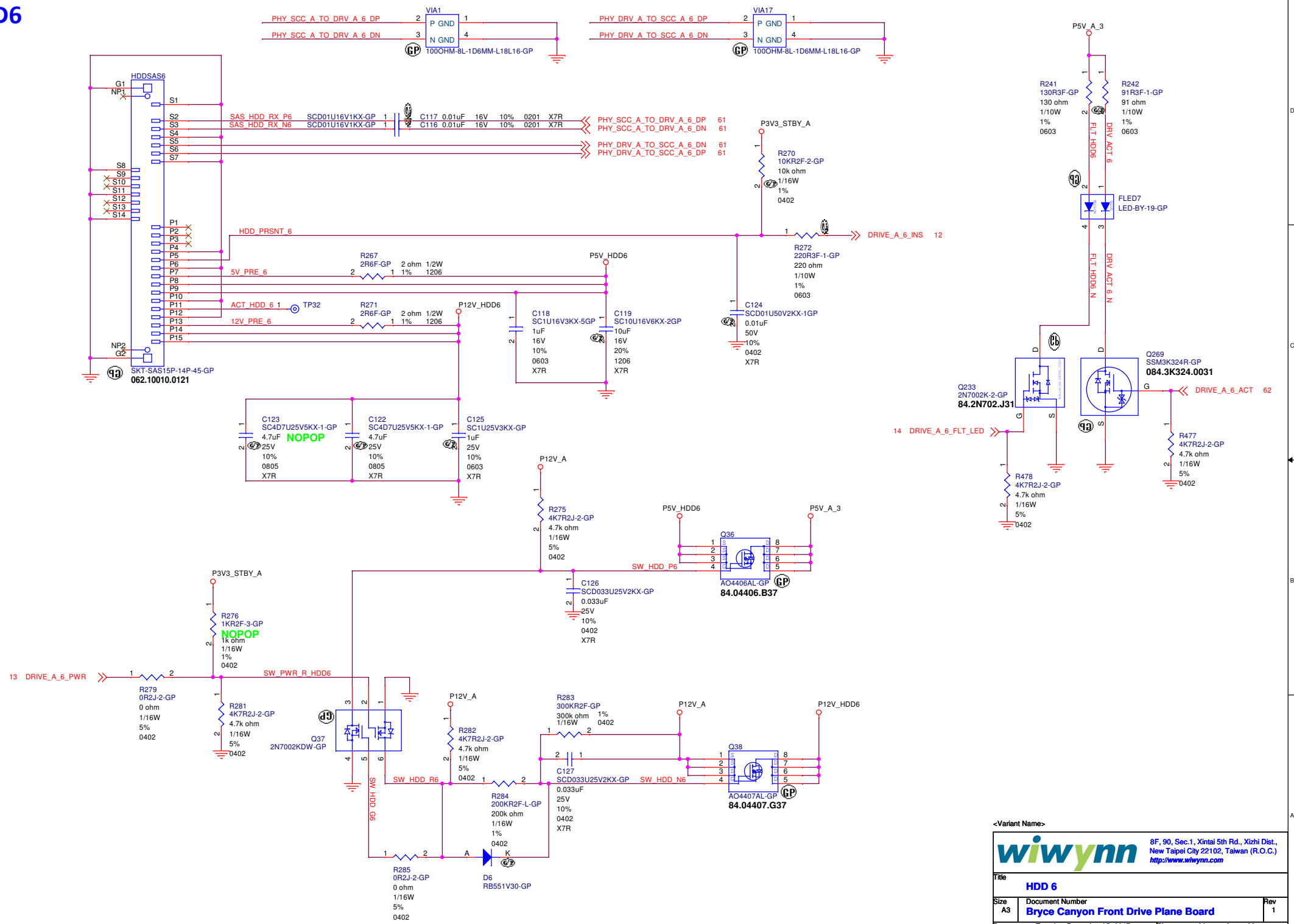
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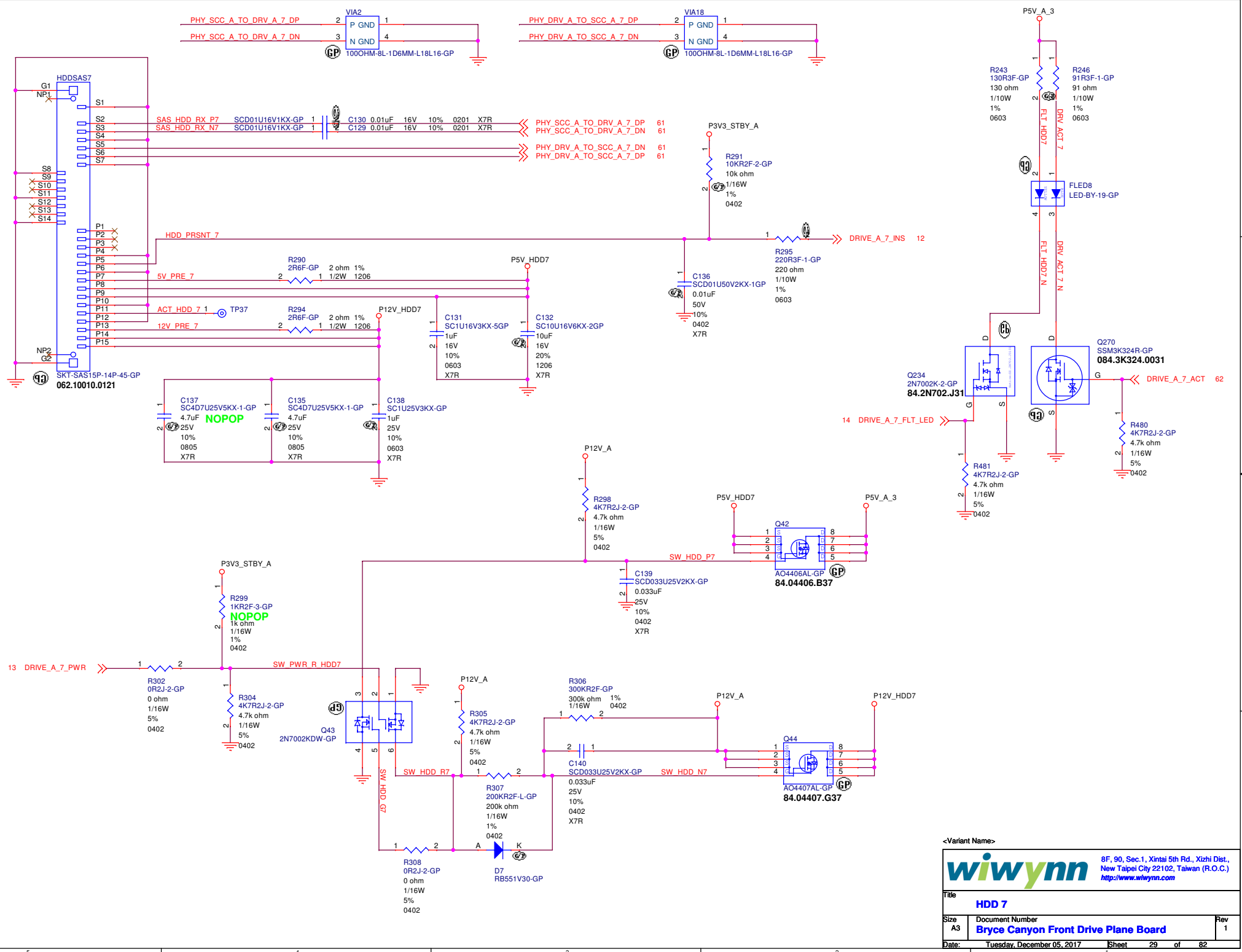
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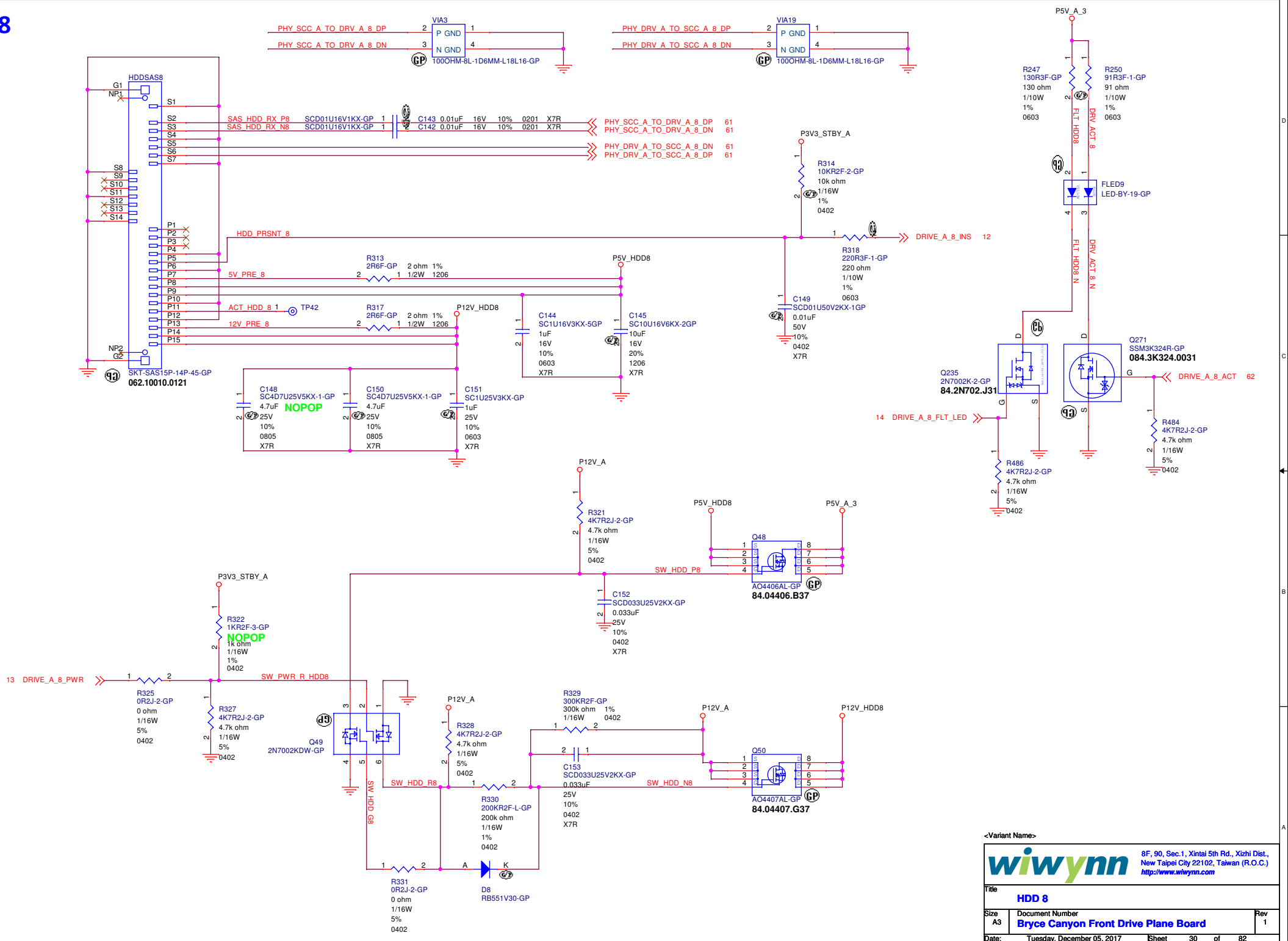
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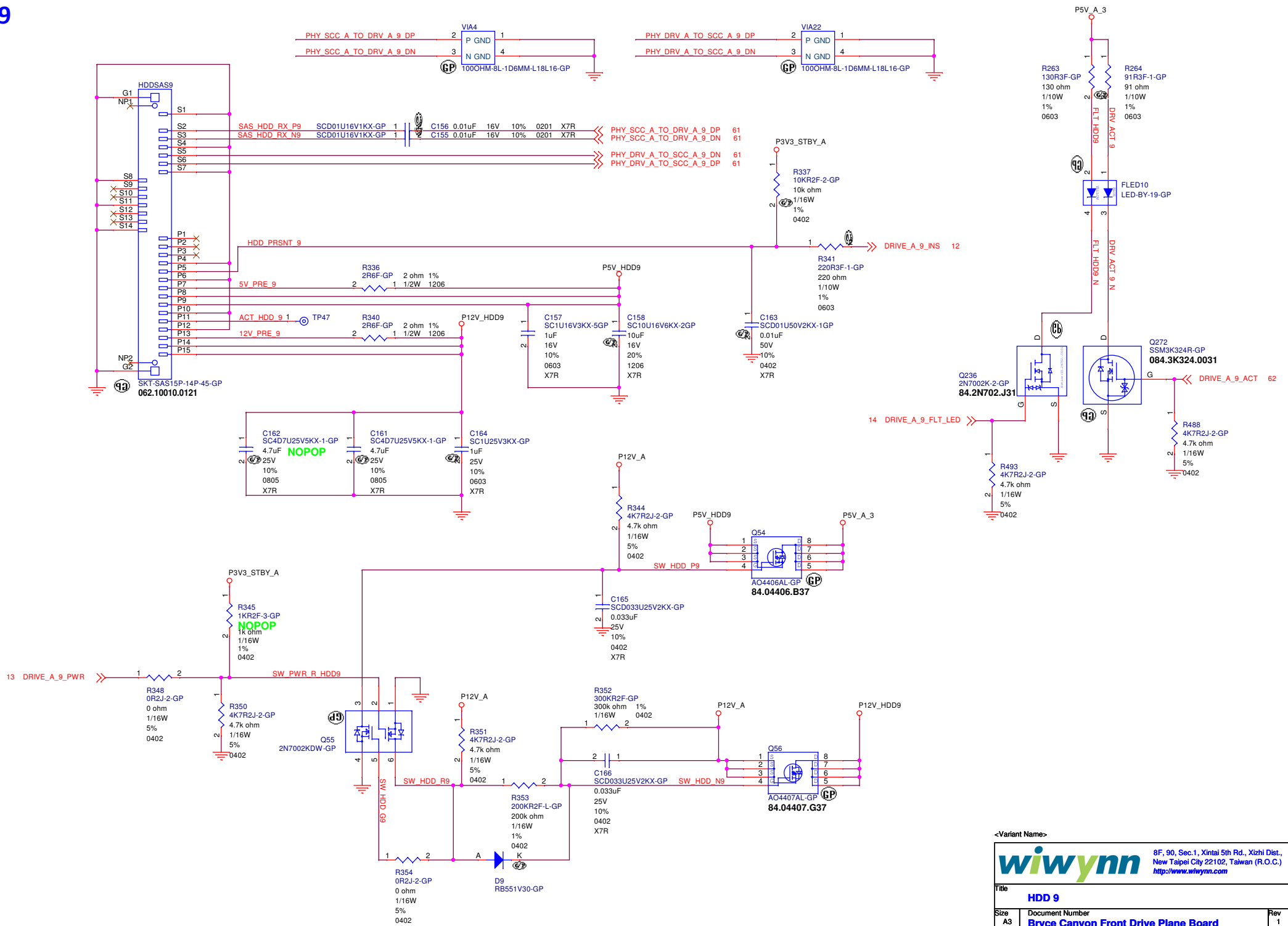
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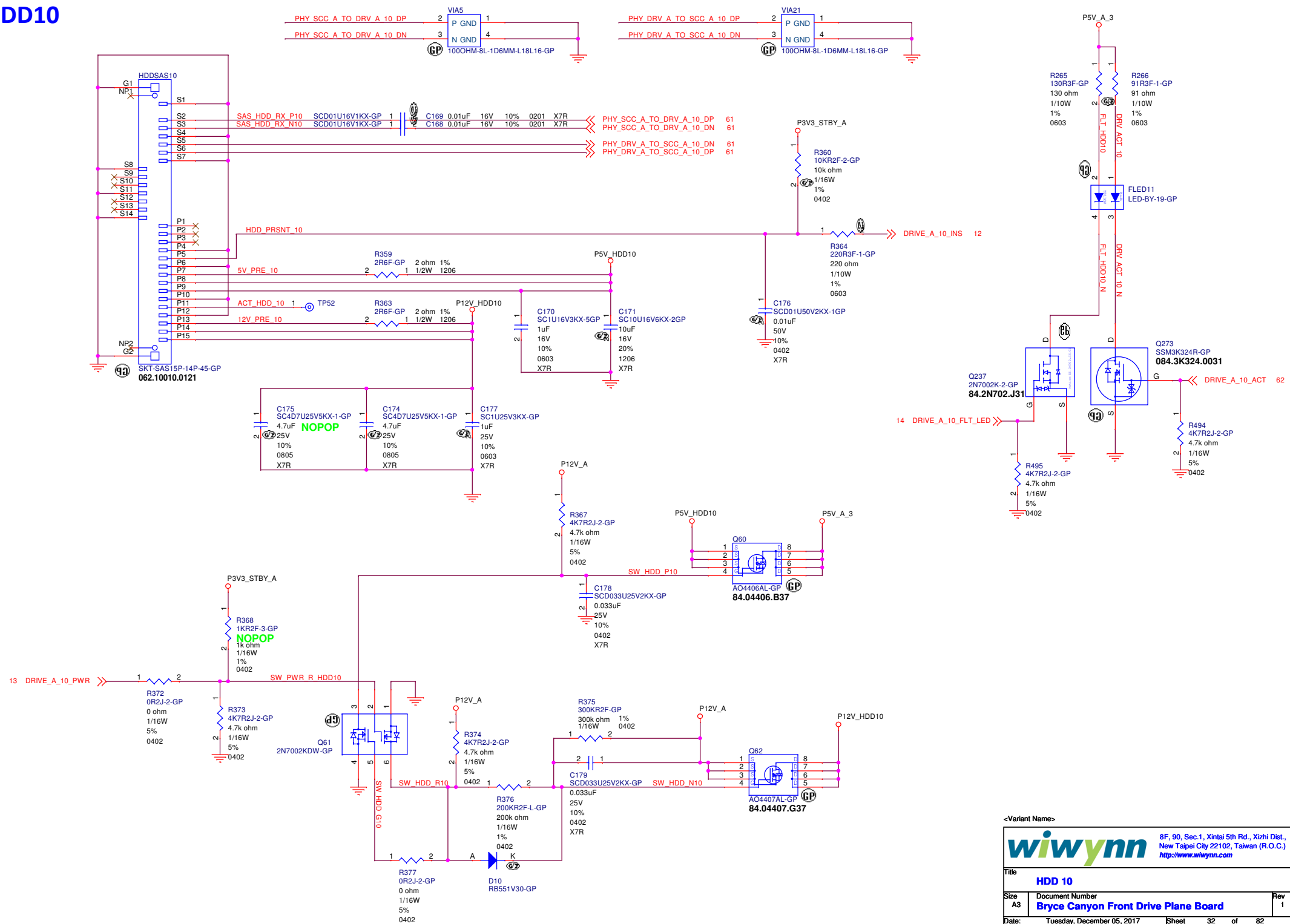
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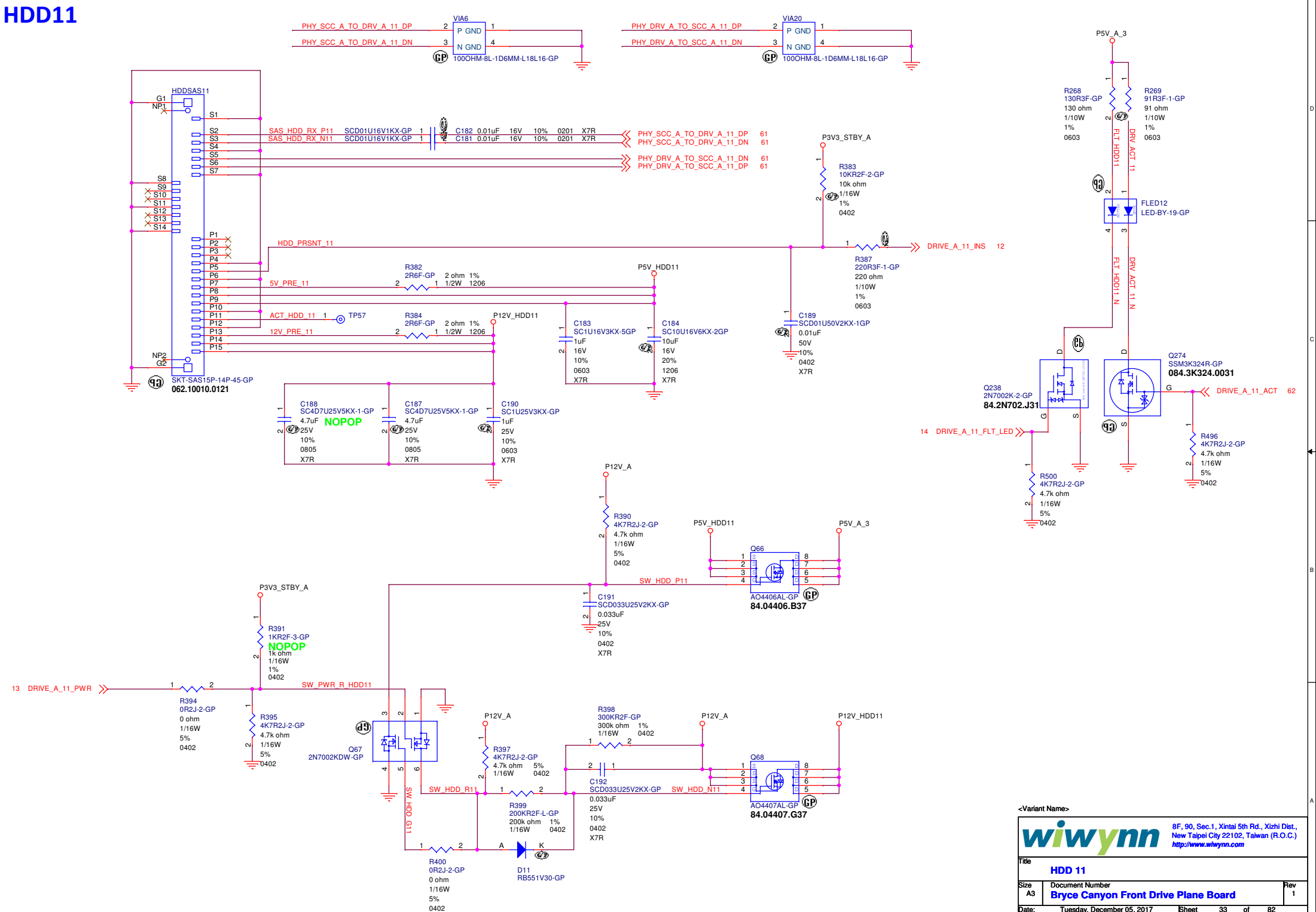
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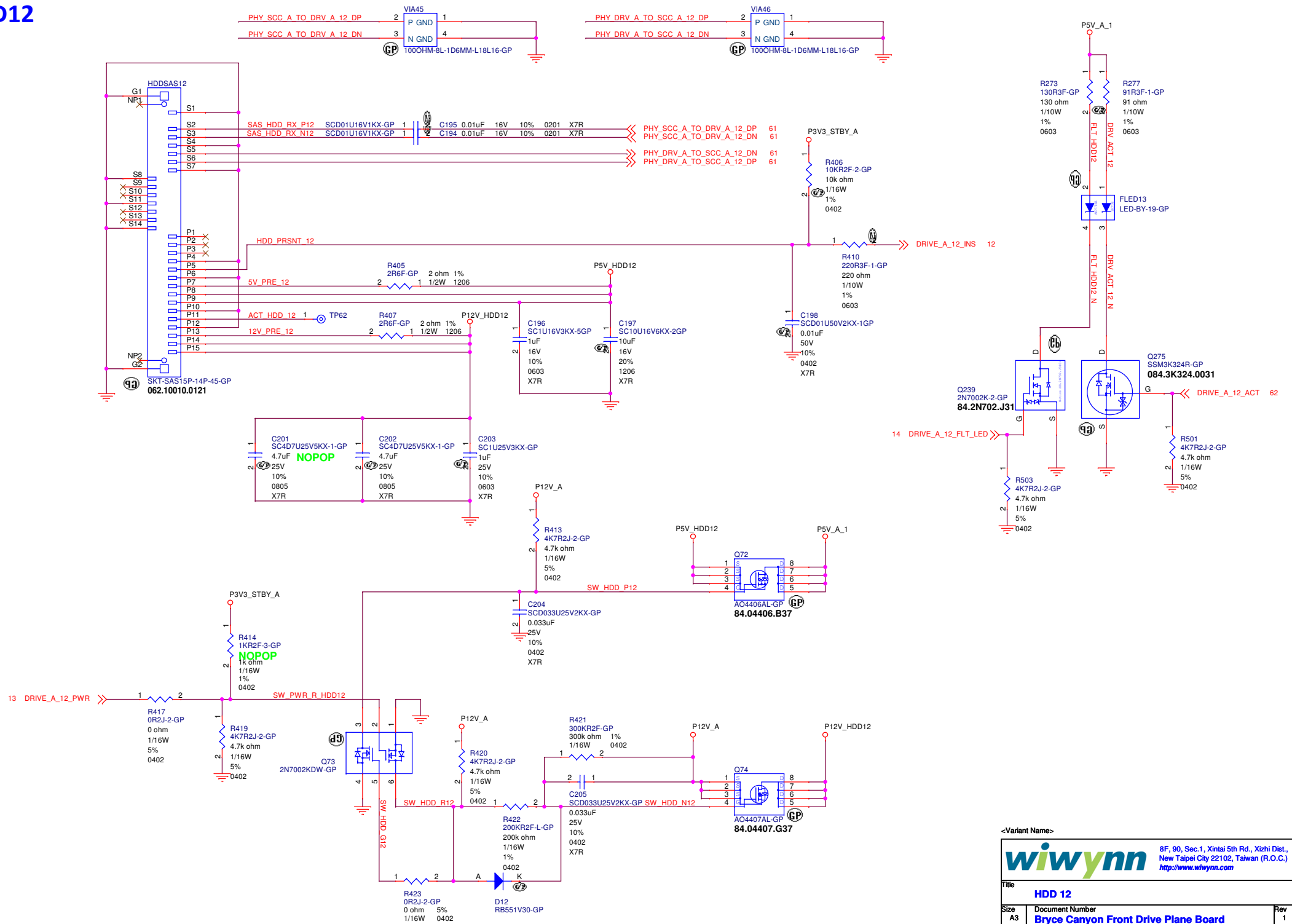
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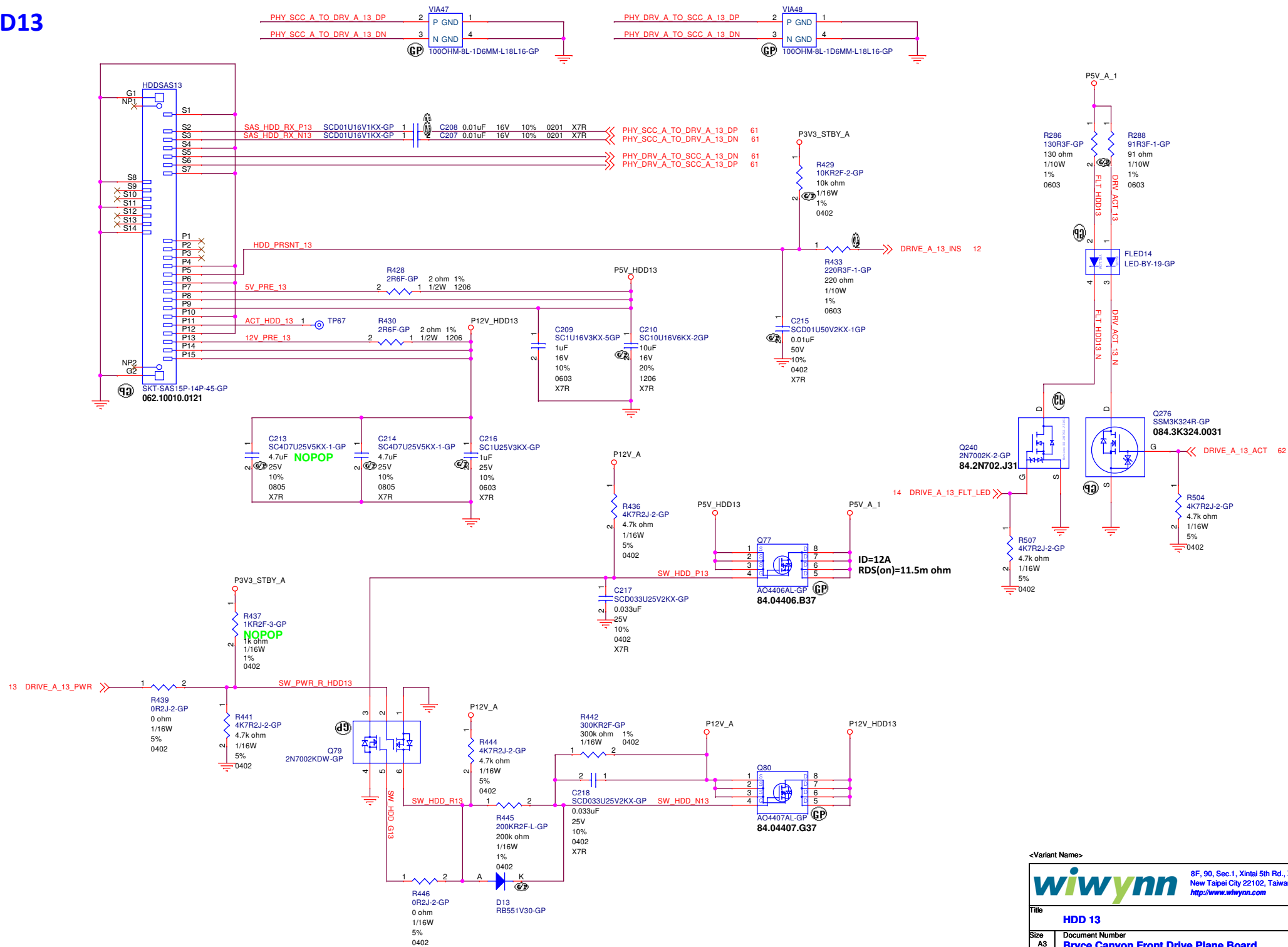
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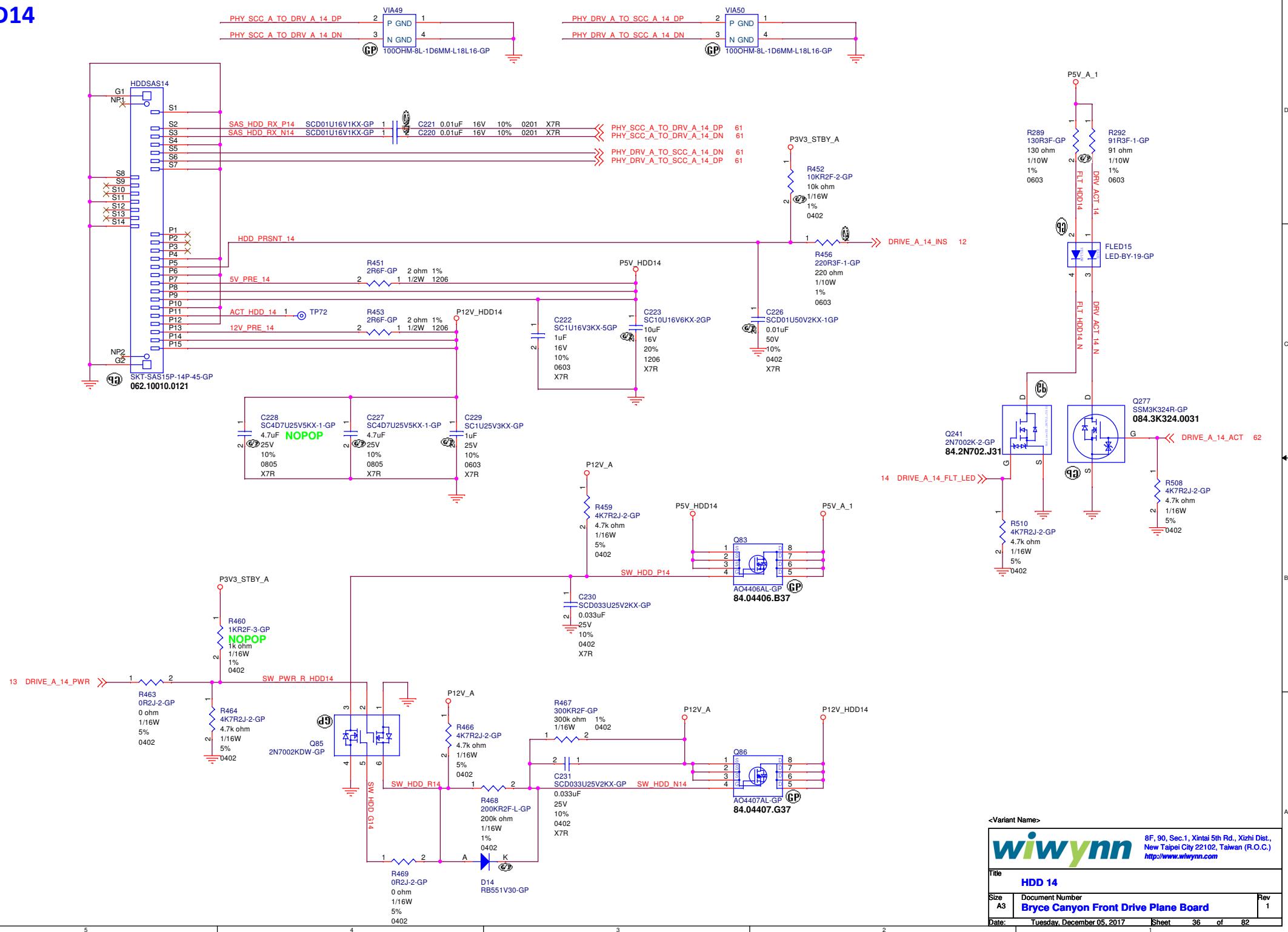
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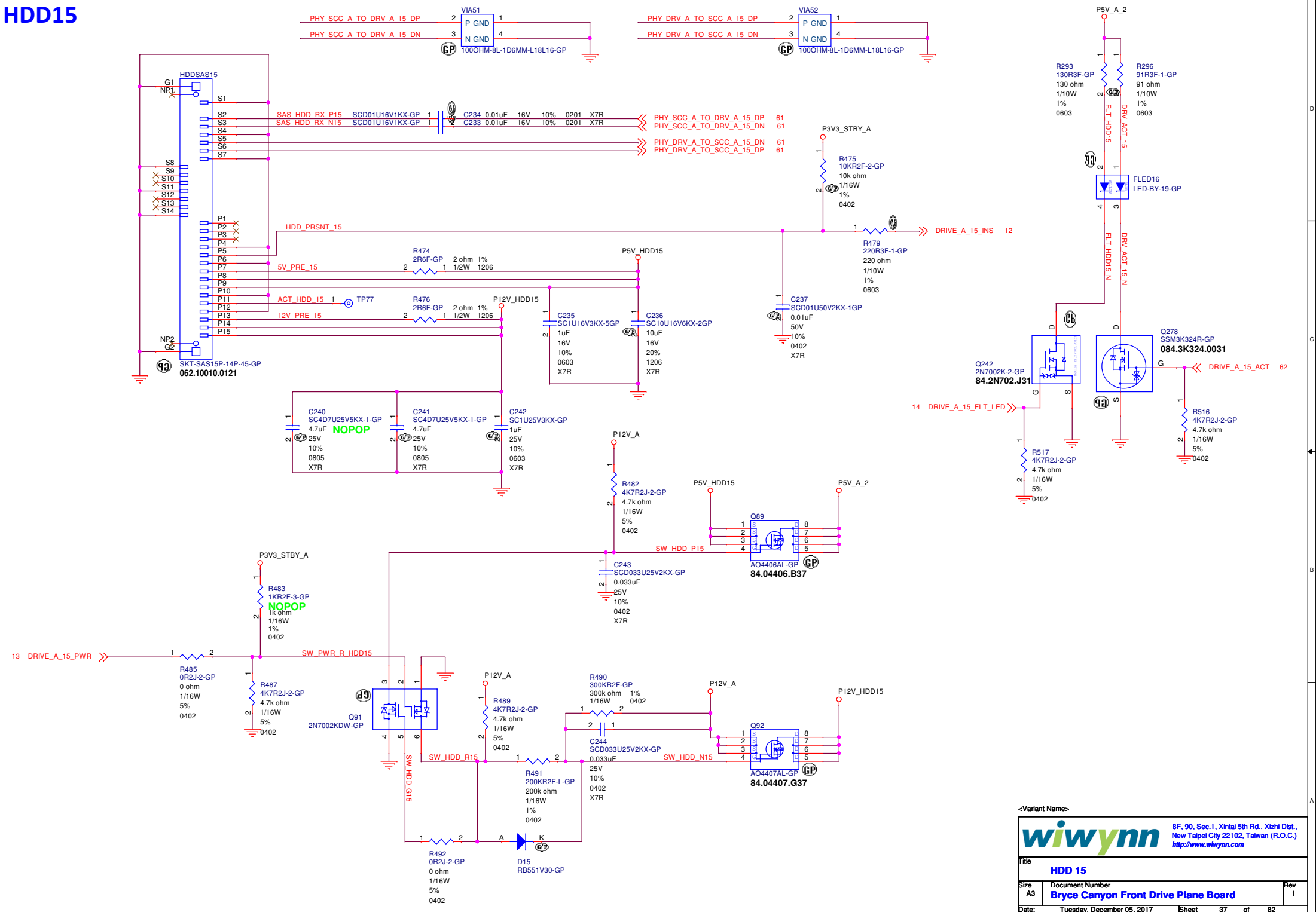
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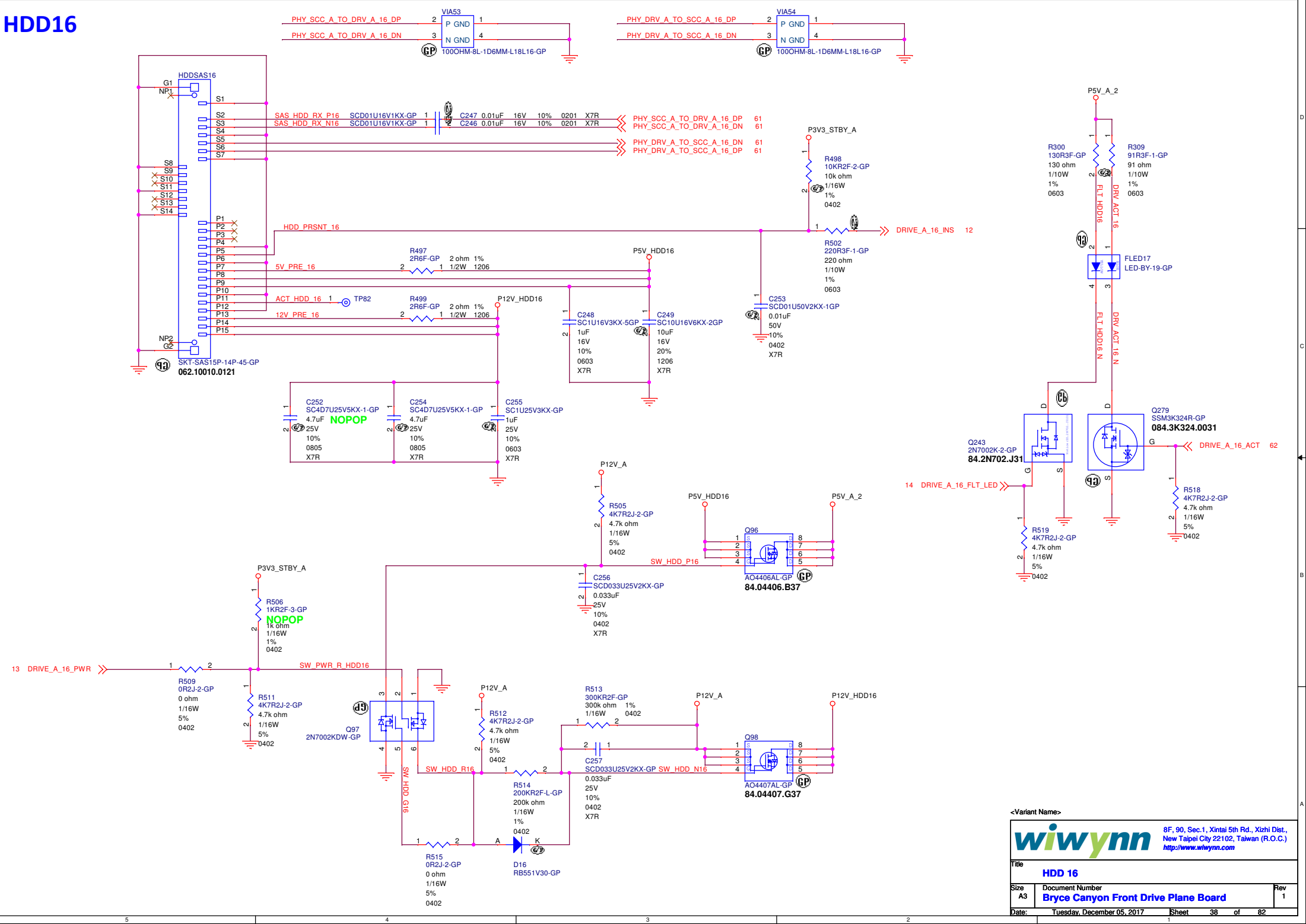
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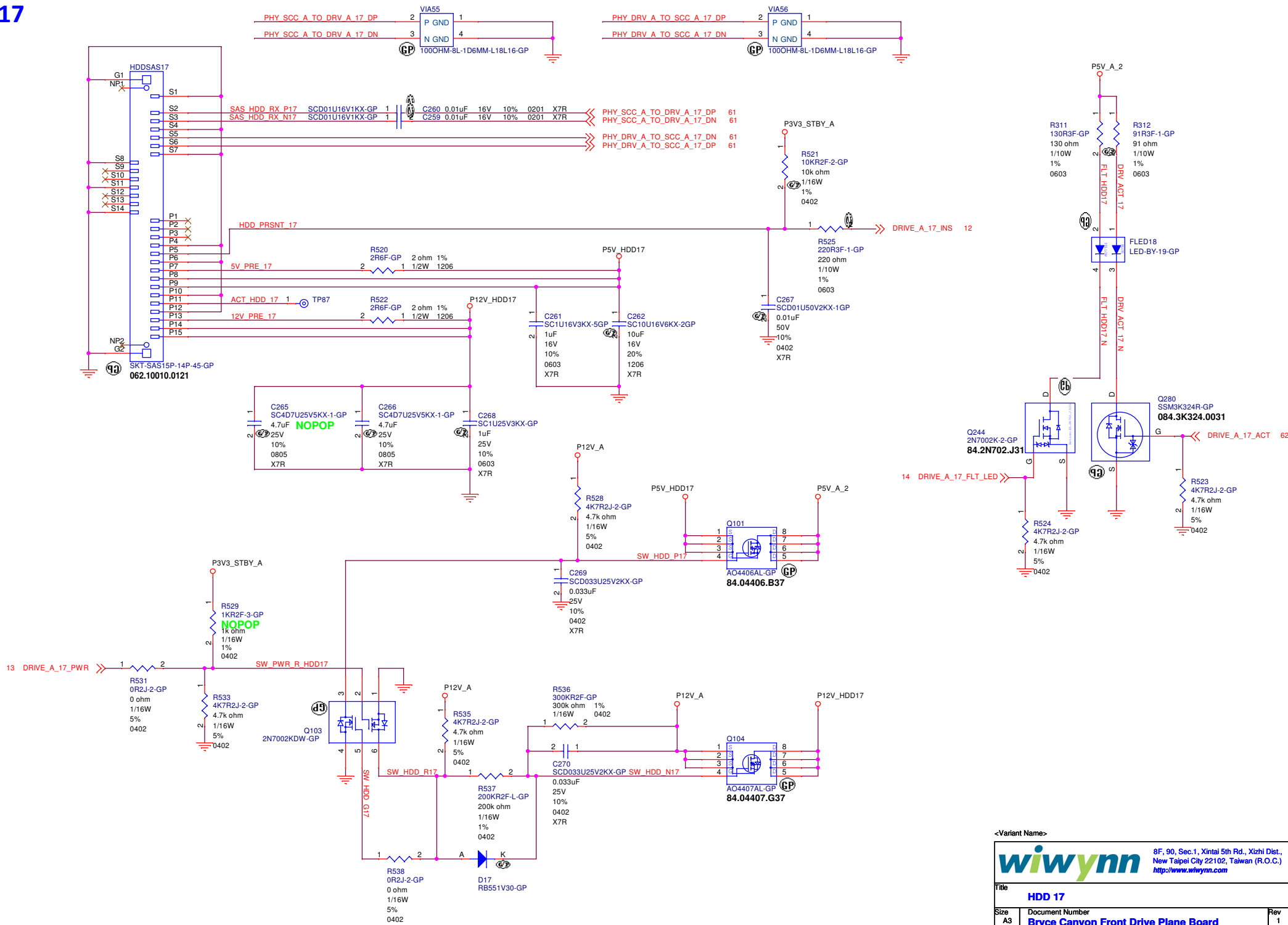
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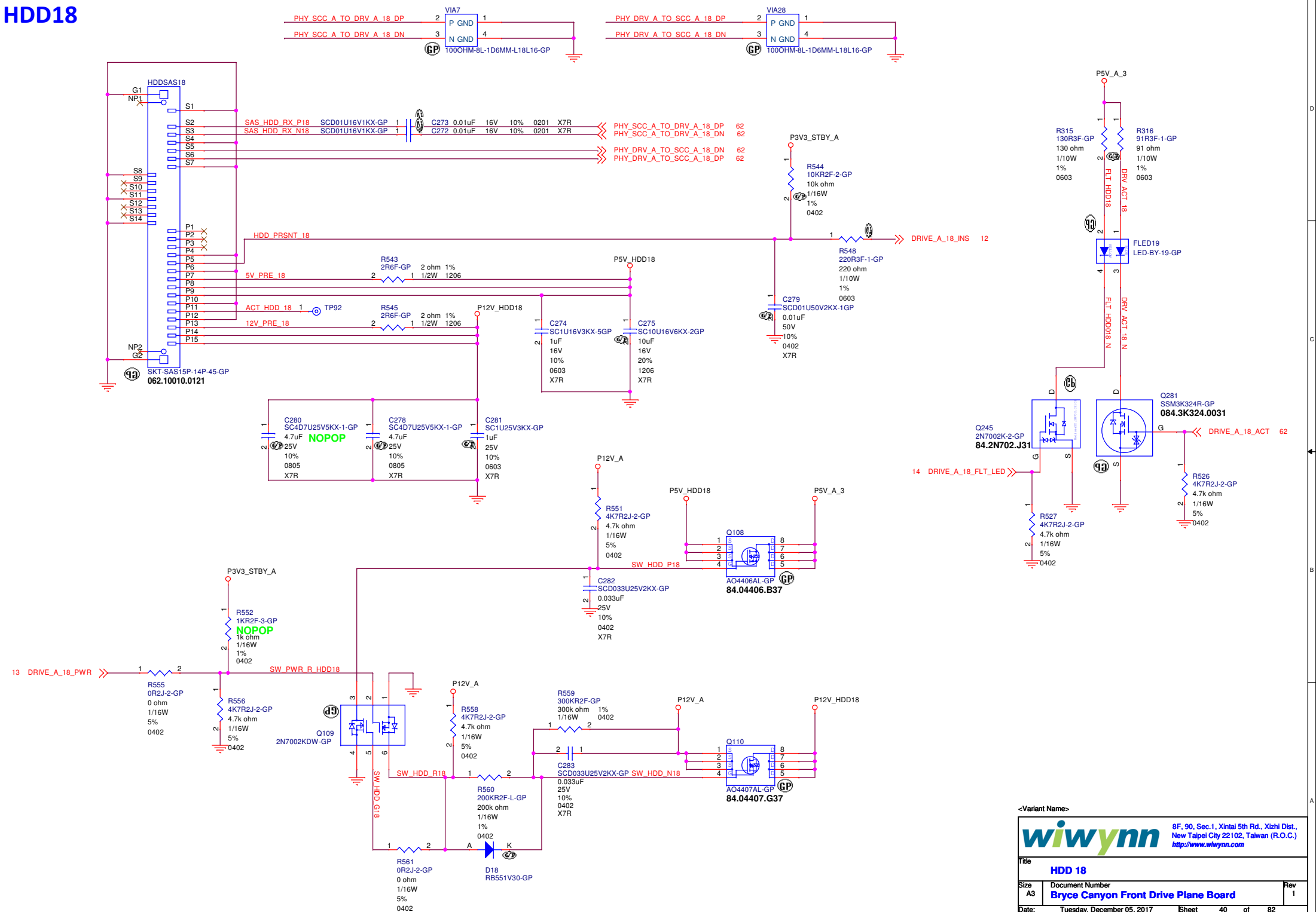
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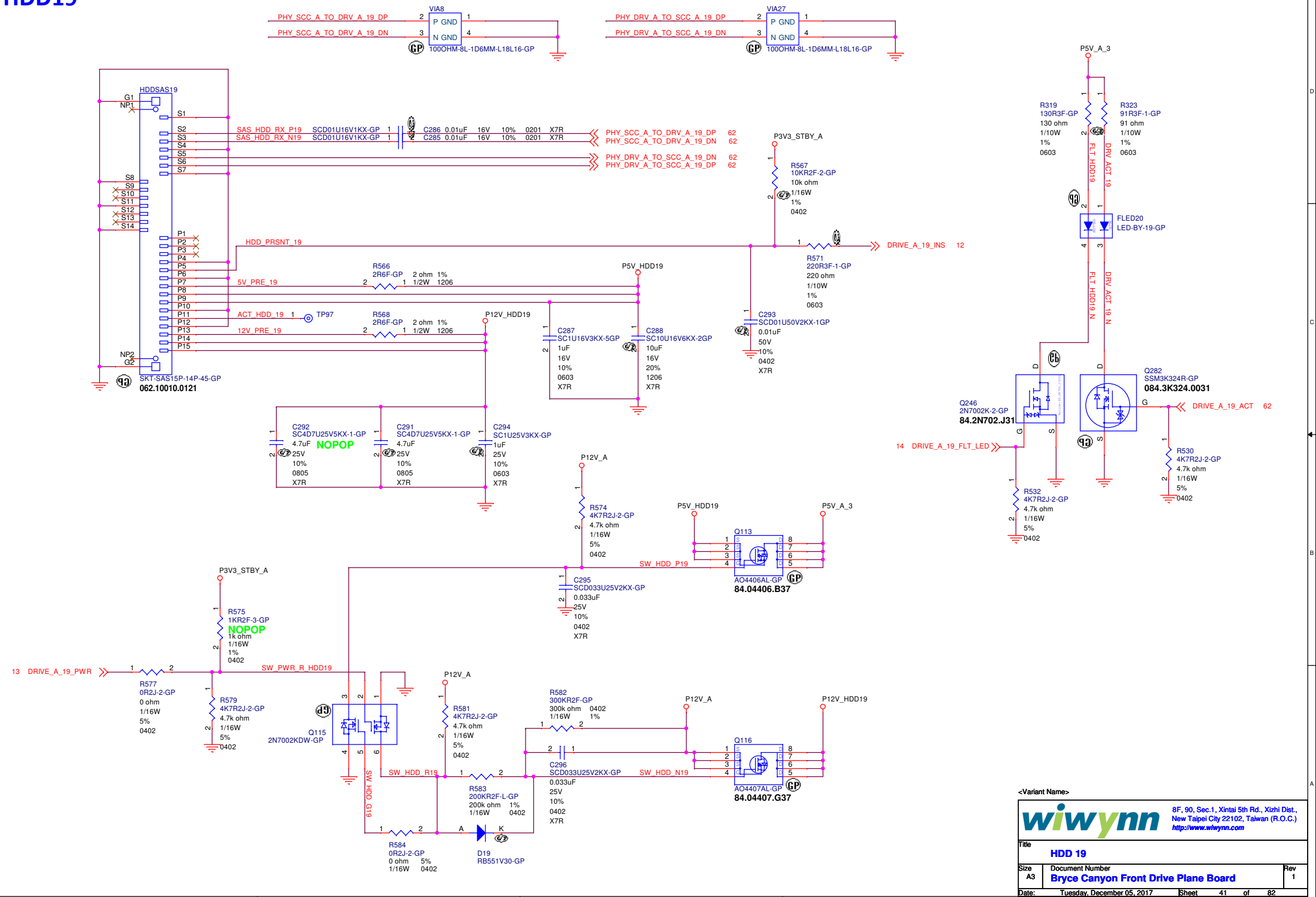
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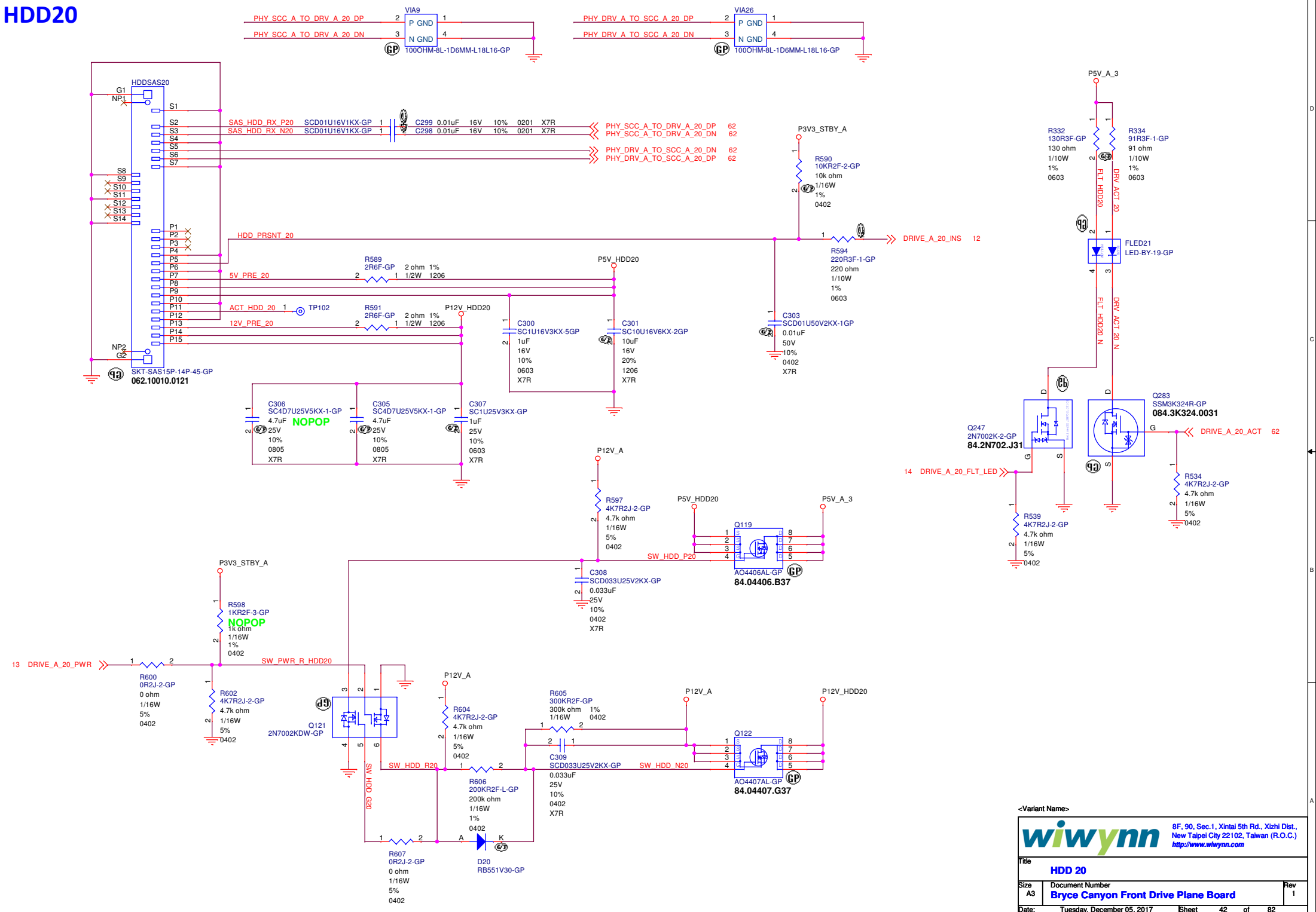
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HDD19



HDD20



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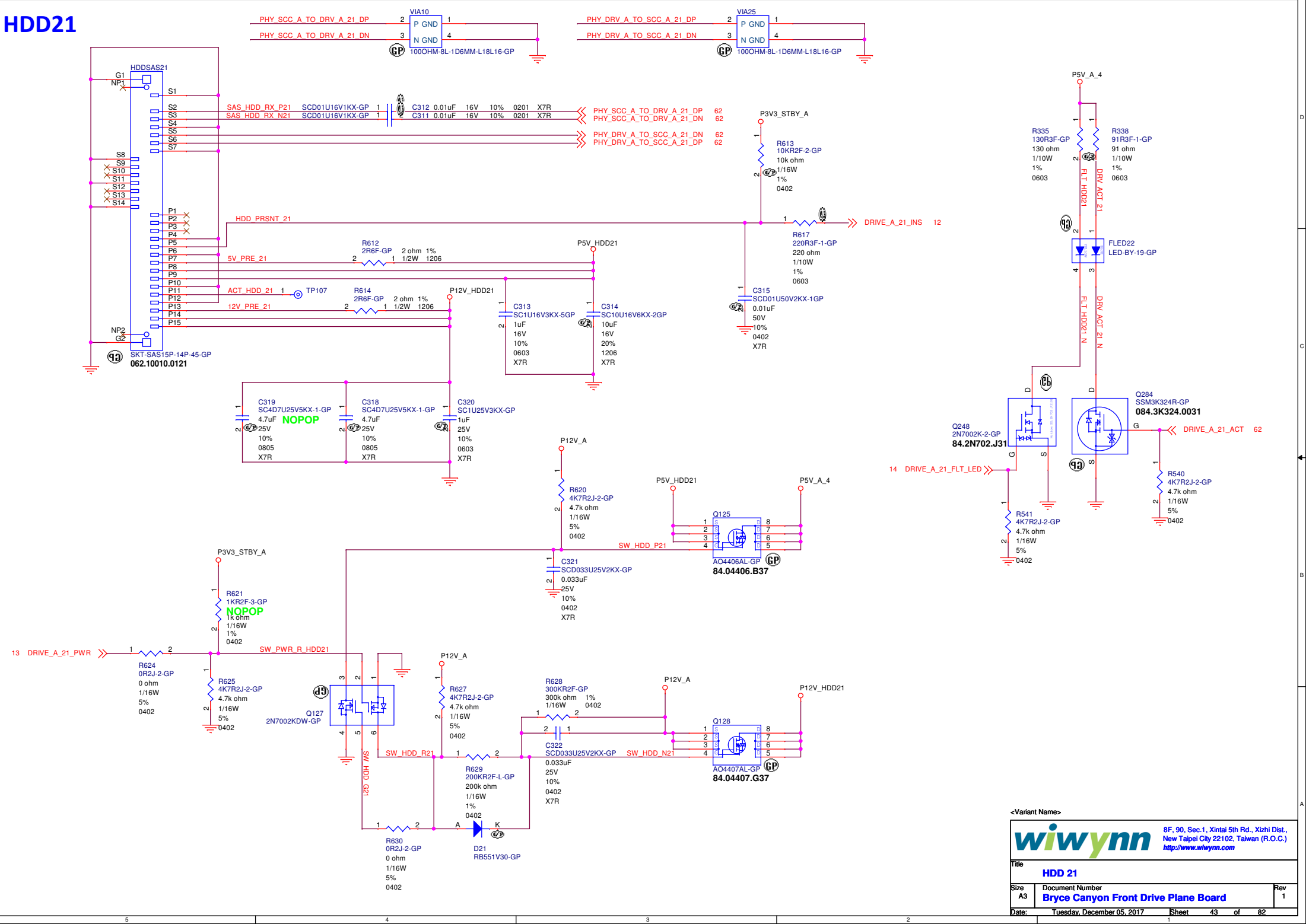
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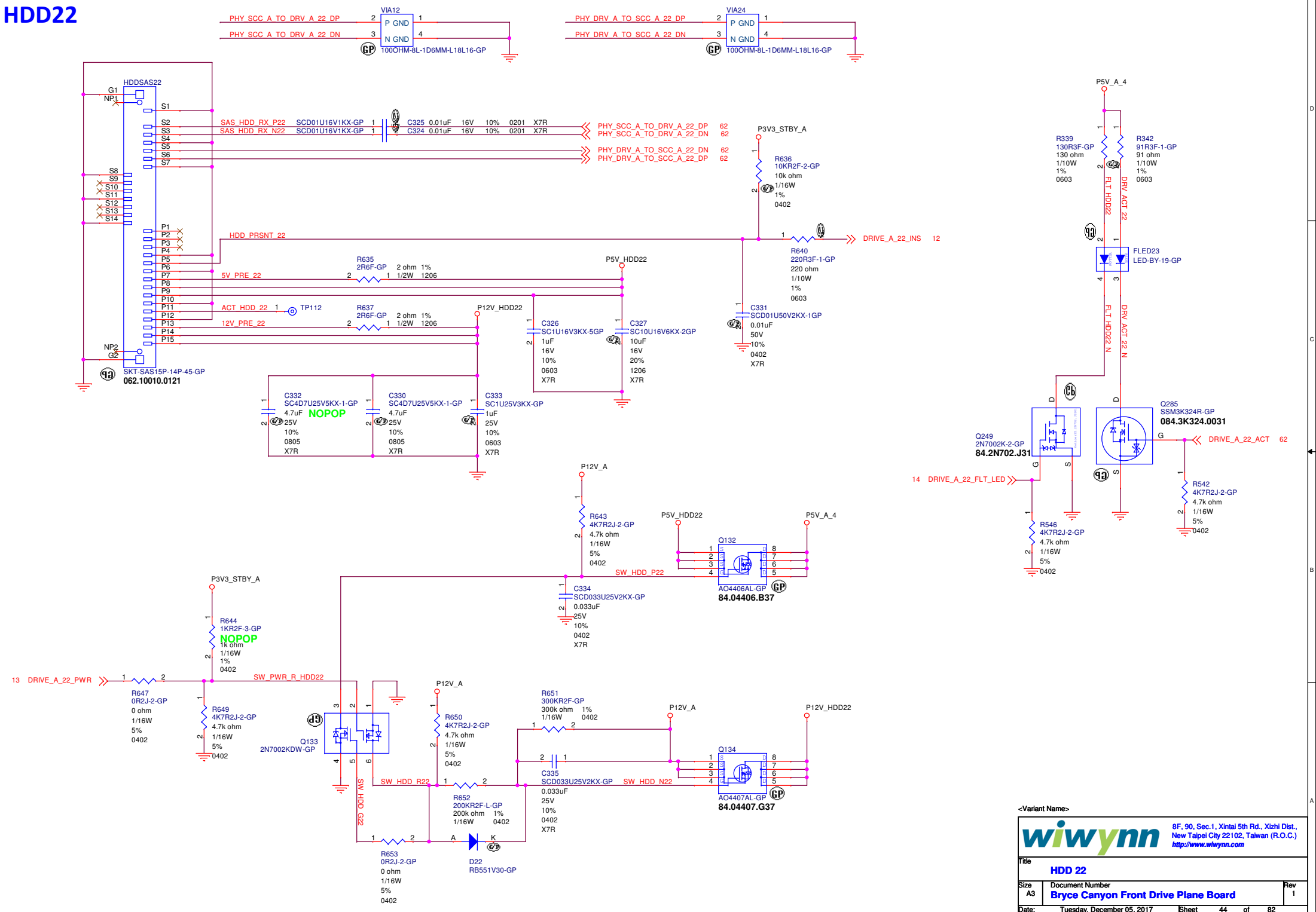
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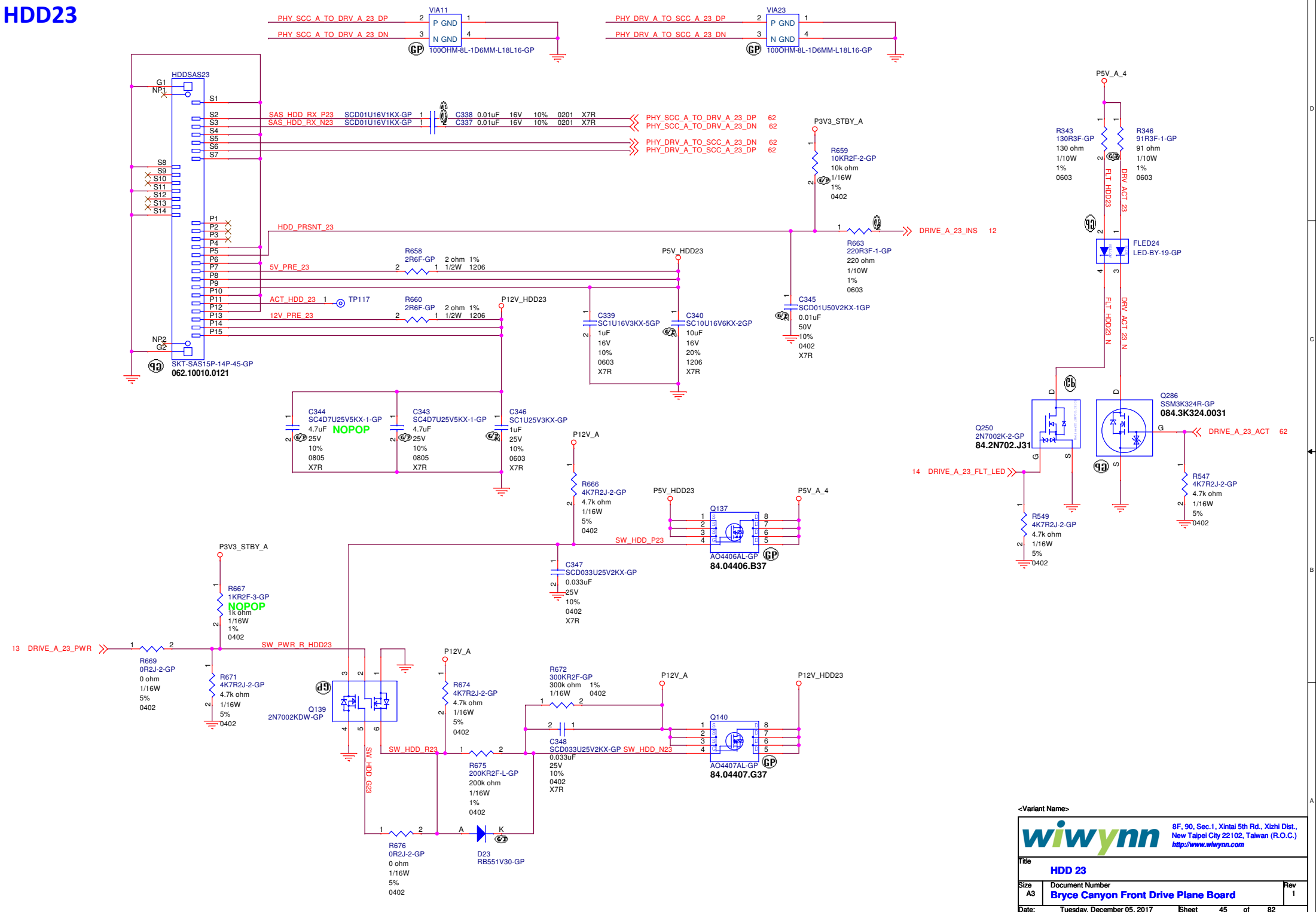
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HDD22



HDD23



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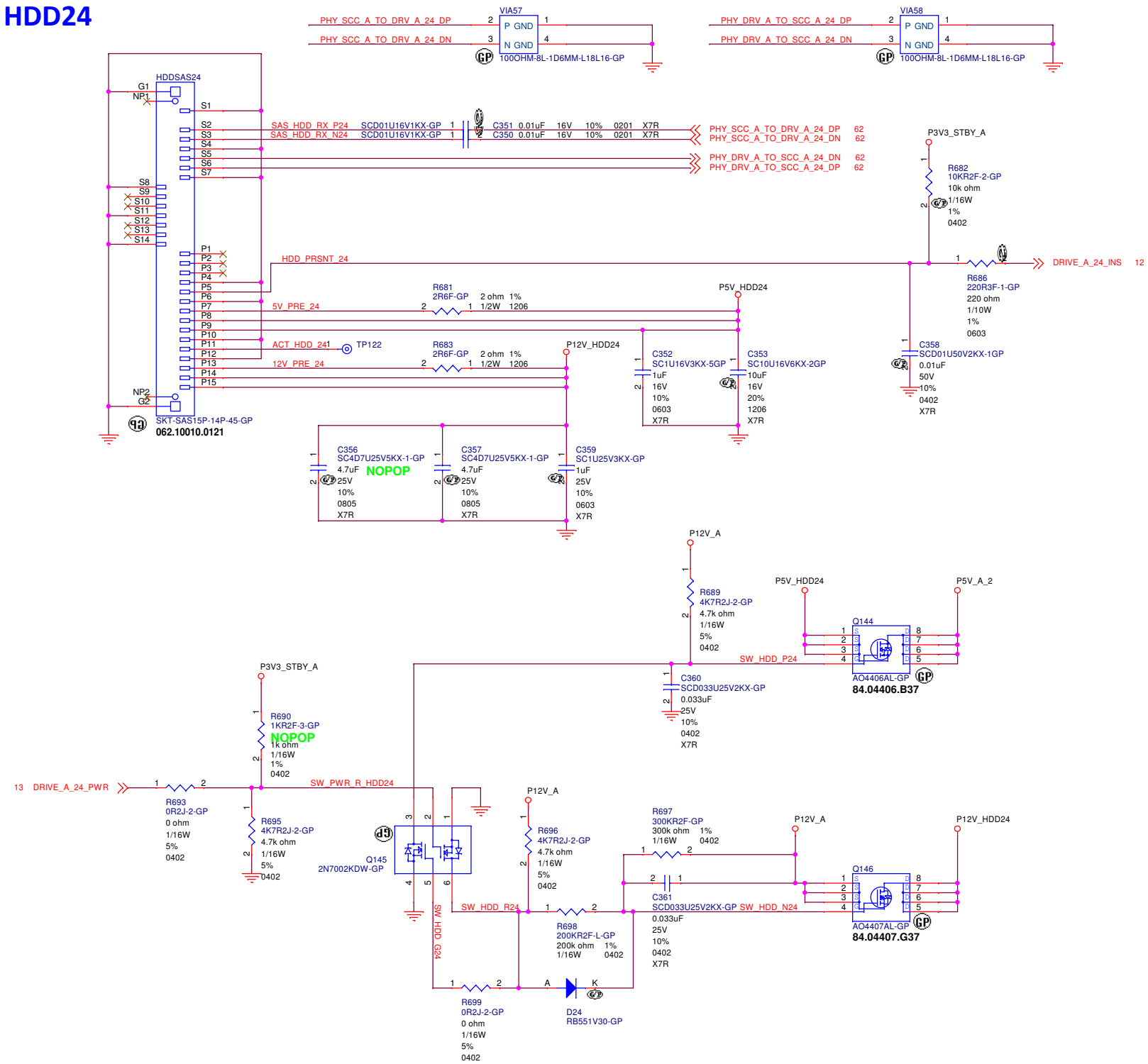
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Title
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HDD24

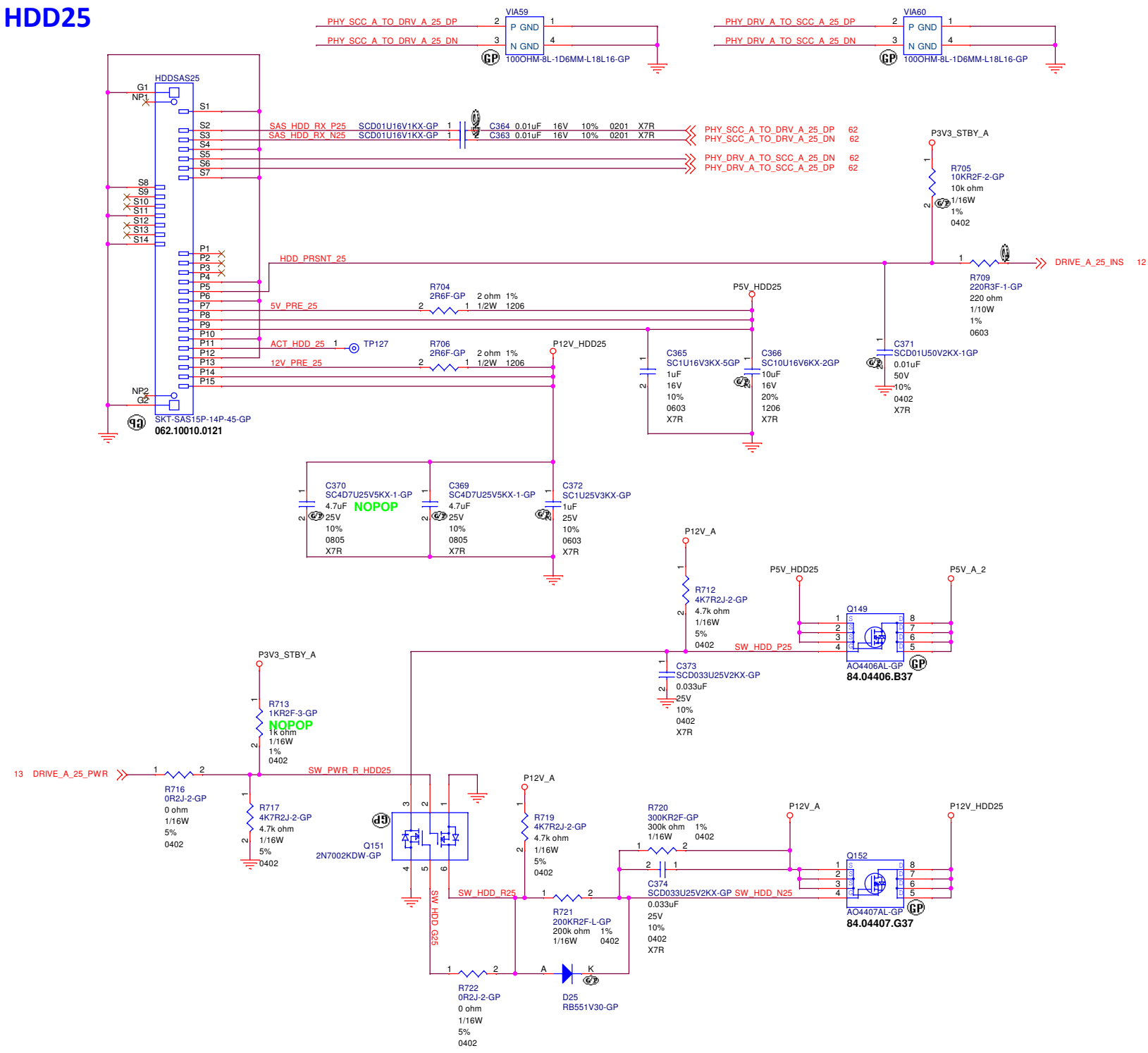


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HDD25

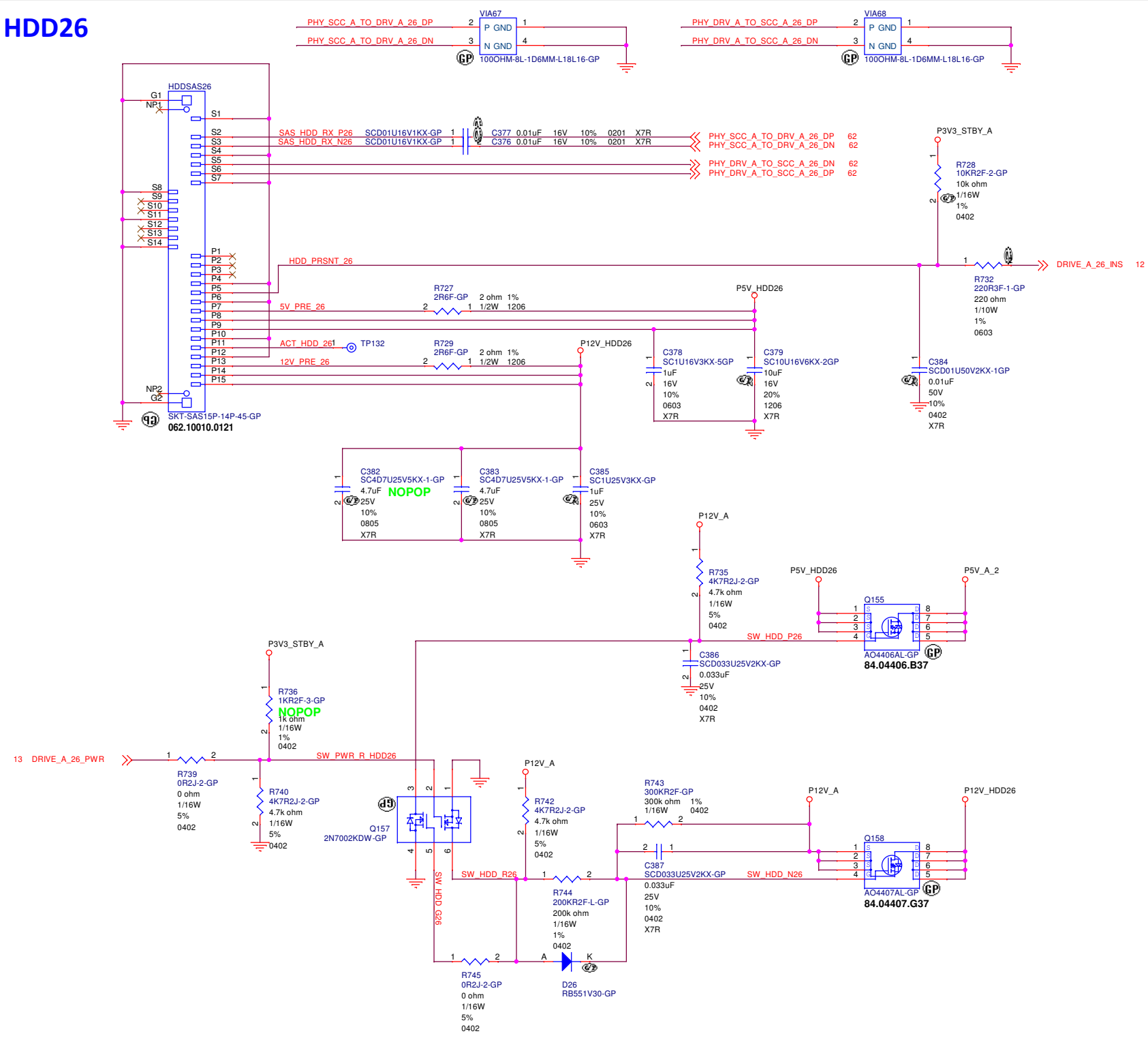


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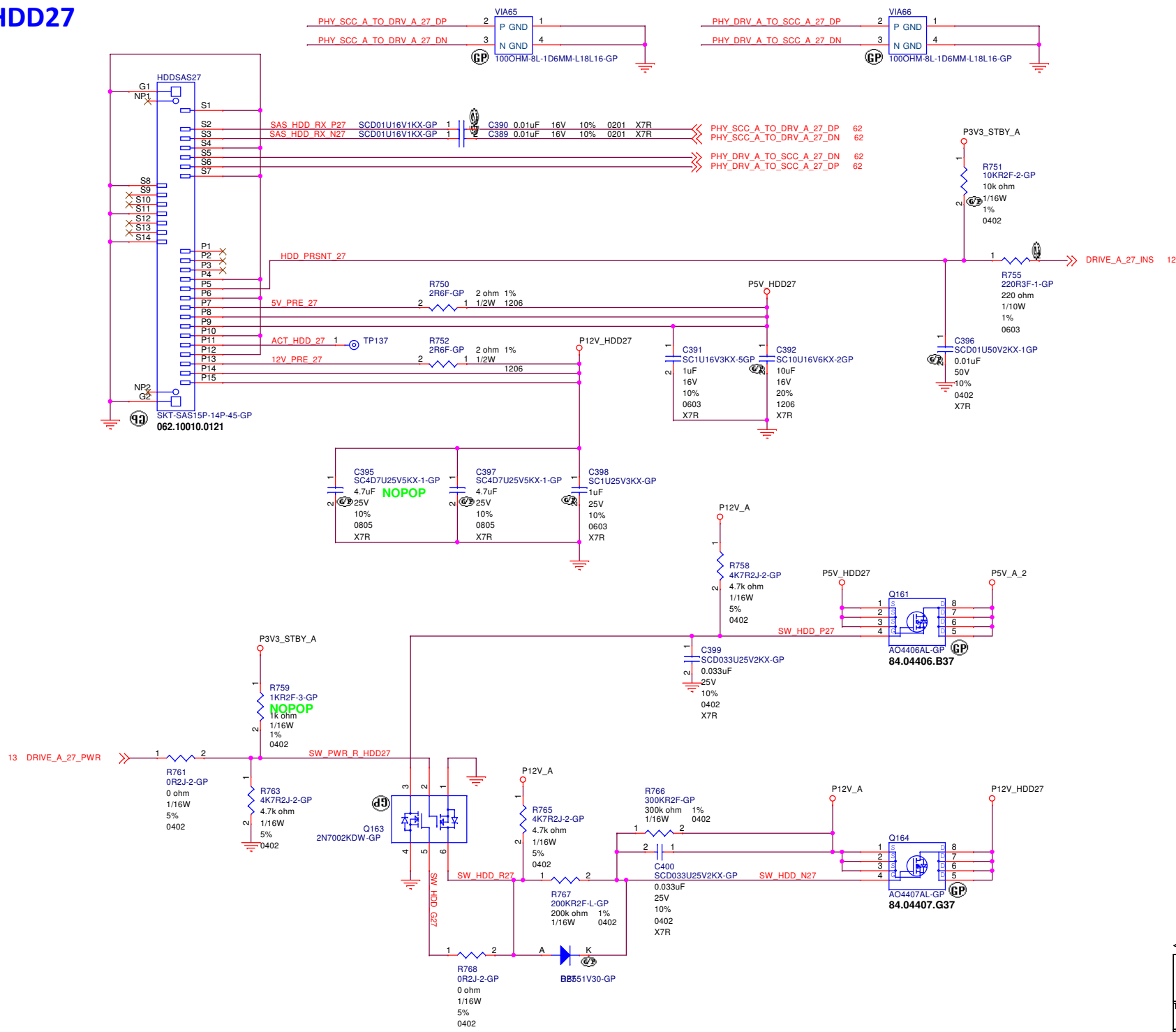
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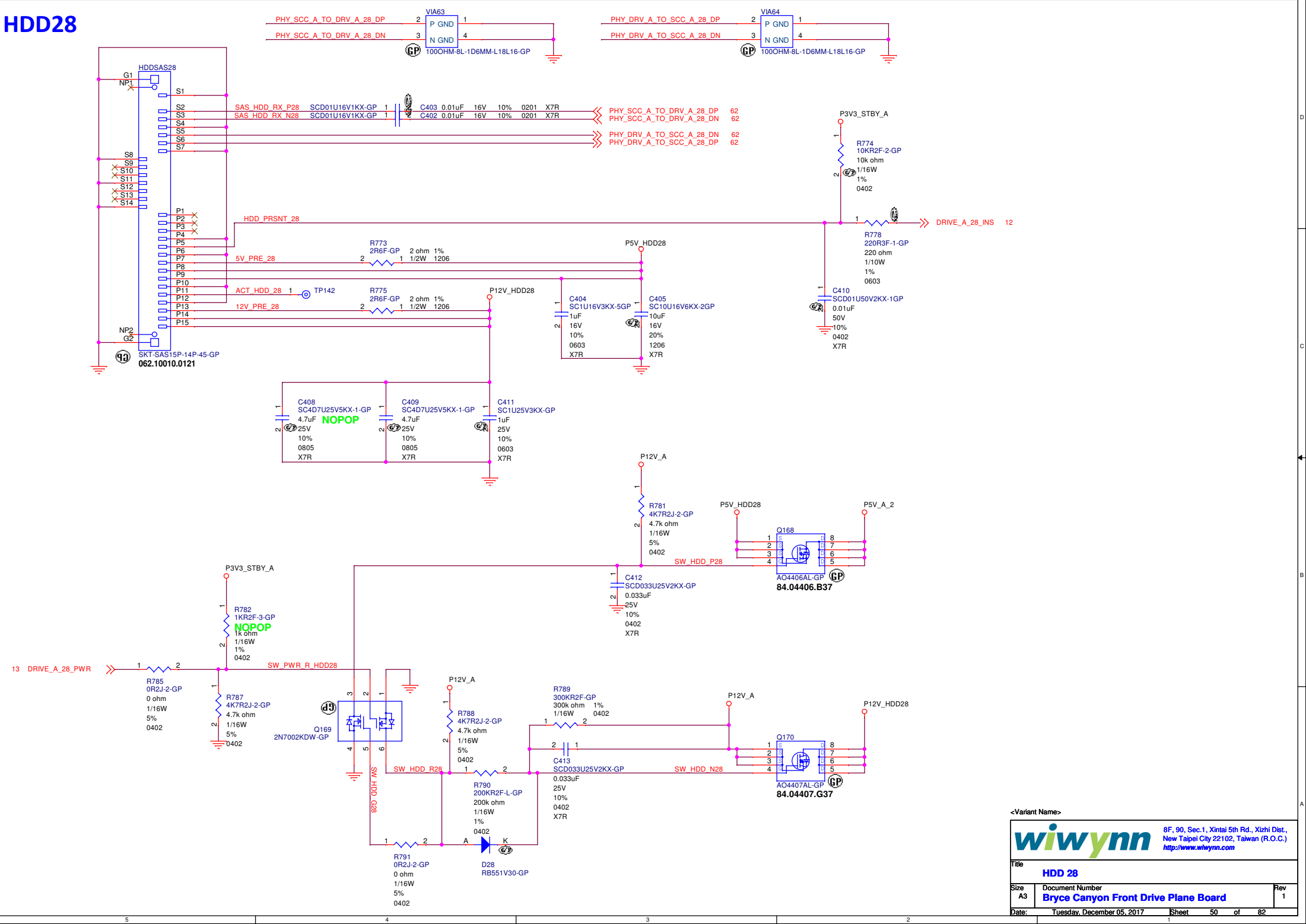
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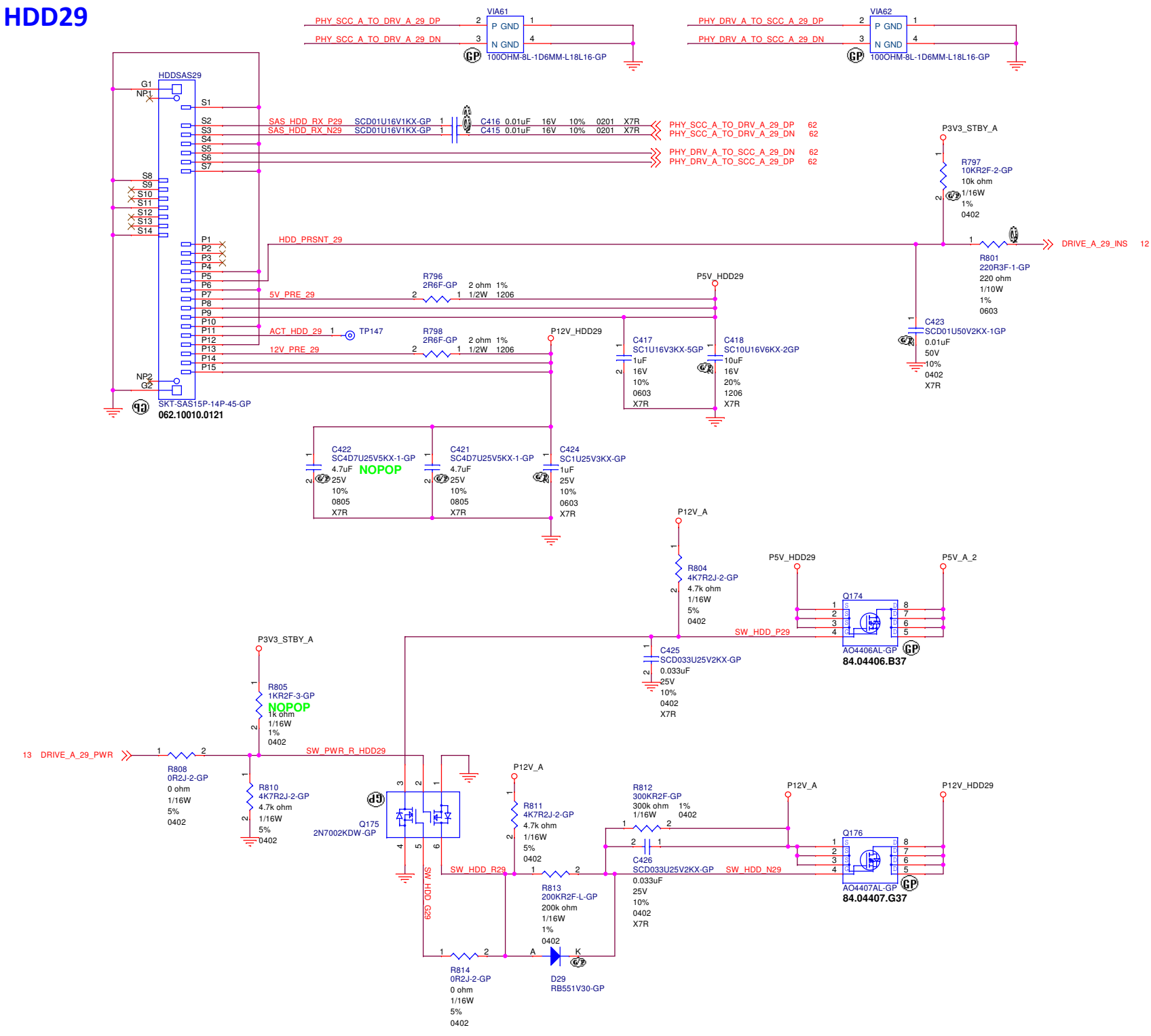
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HDD28



HDD29



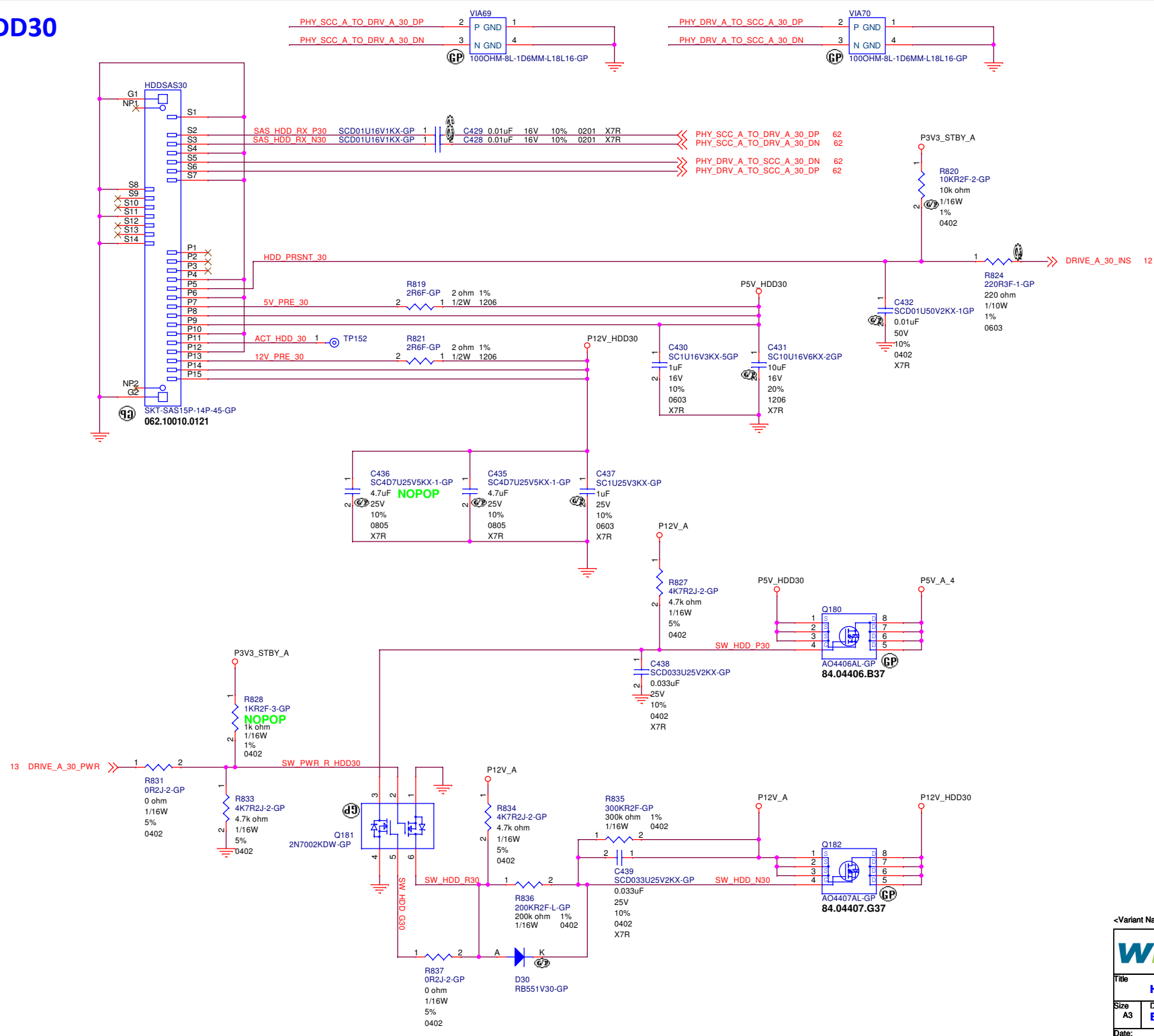
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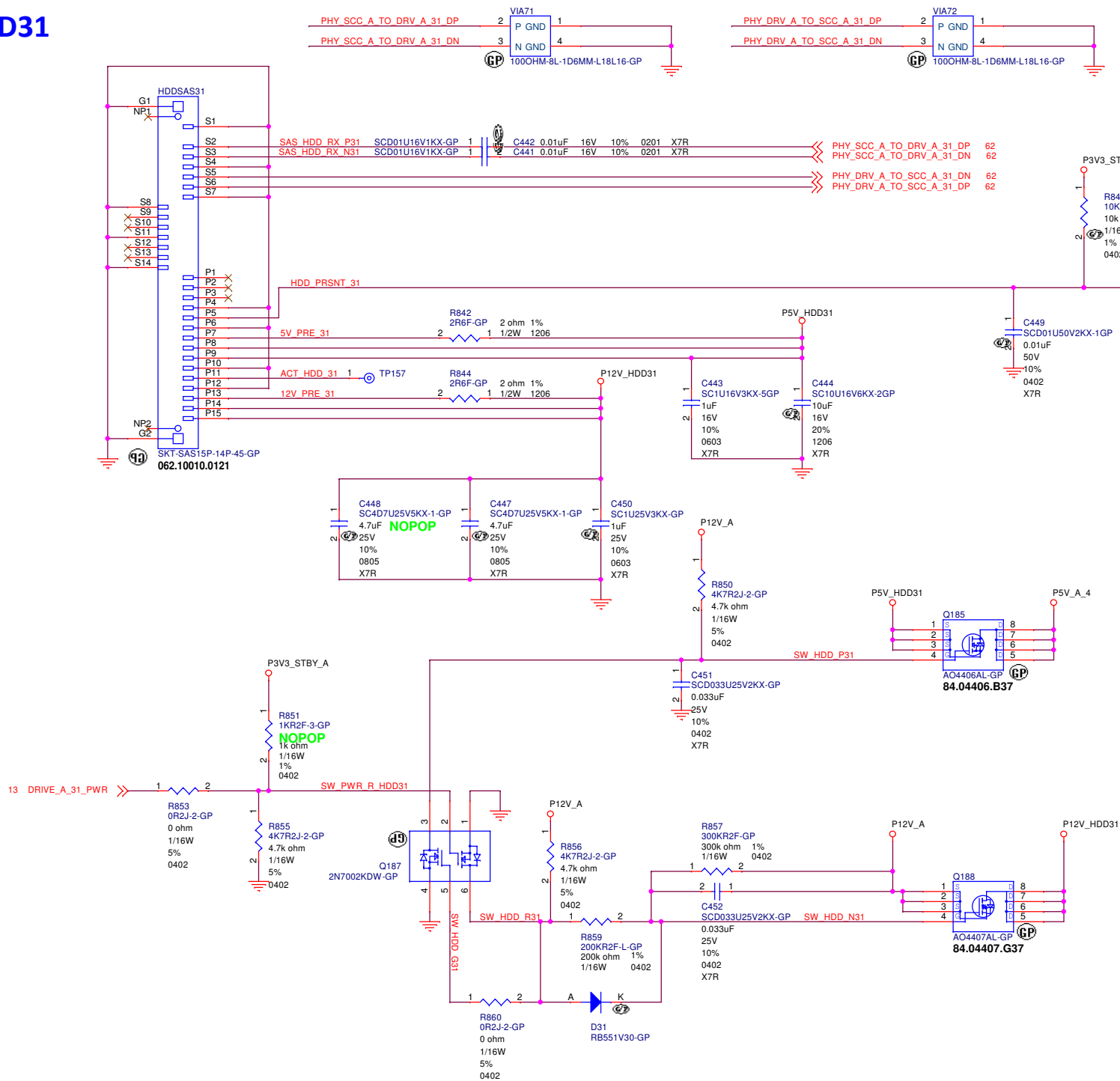
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HDD30



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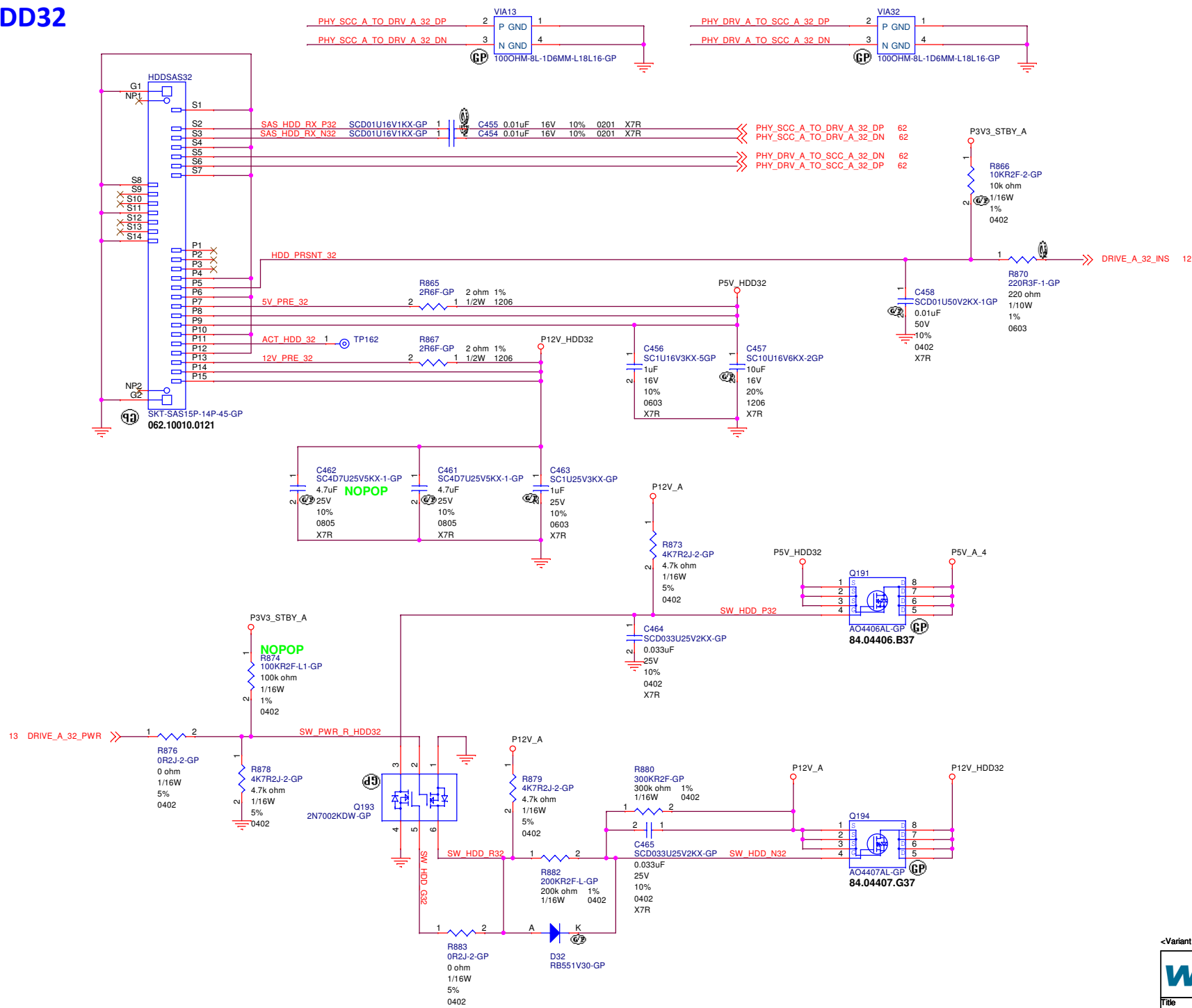


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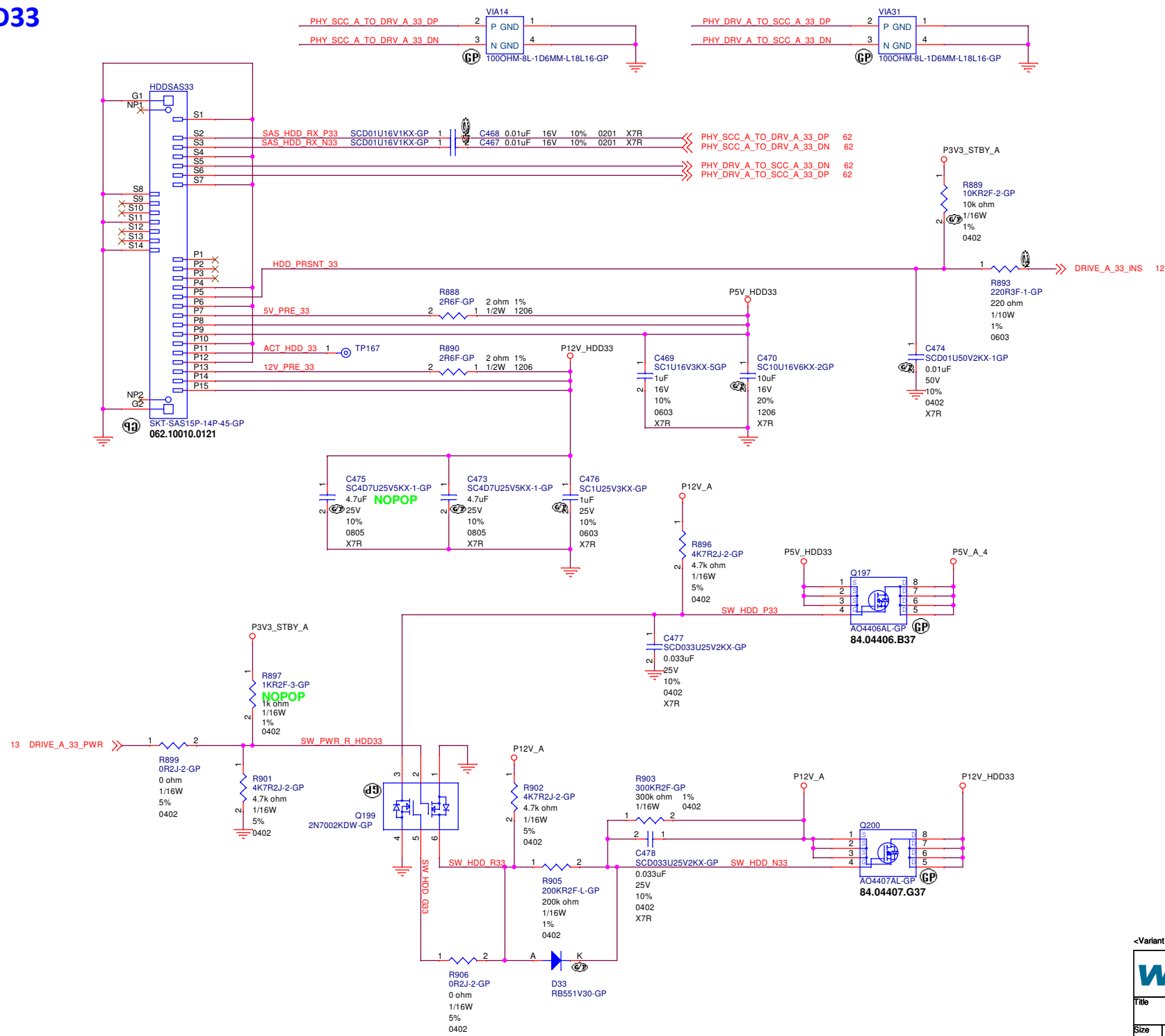
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<http://www.wiwynn.com>

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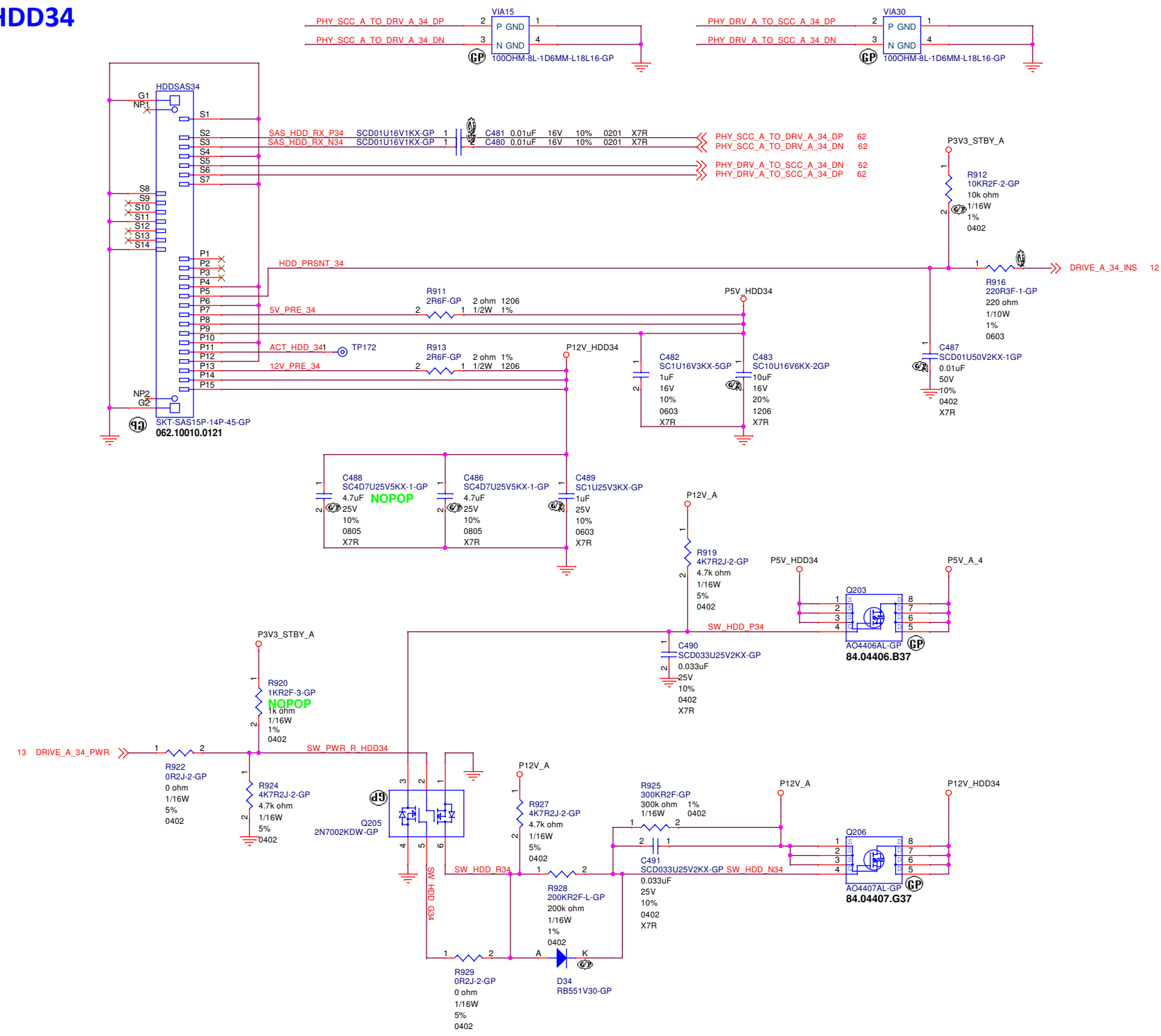
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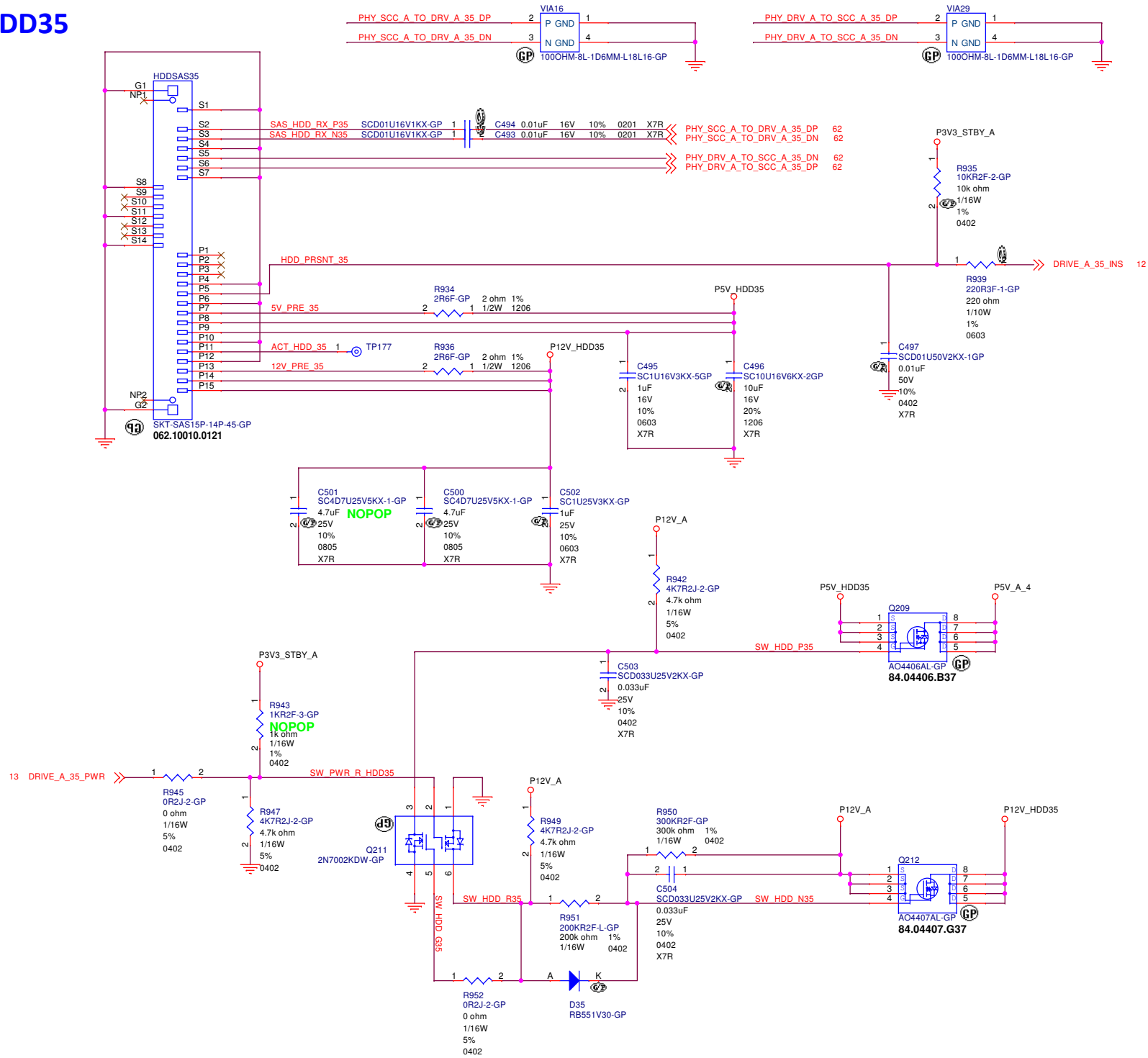
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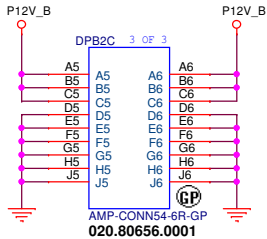
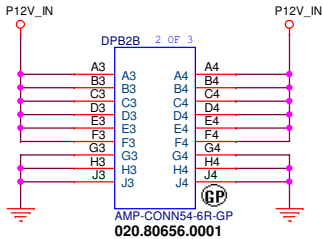
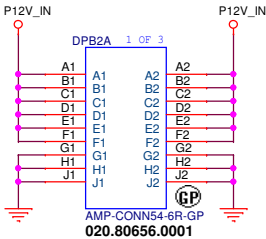
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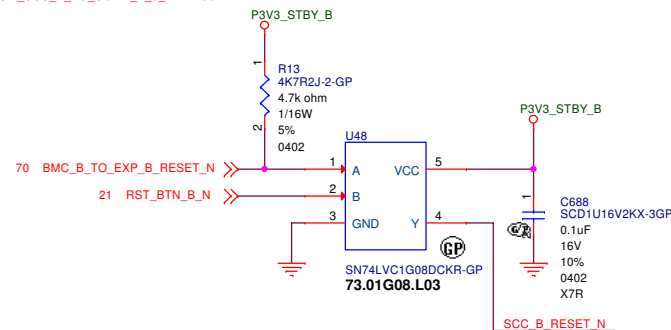
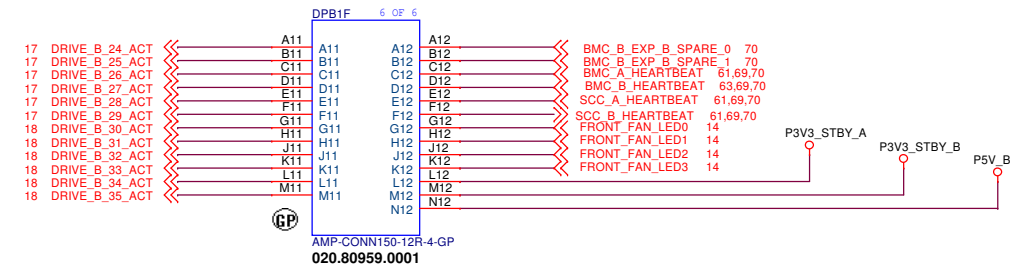
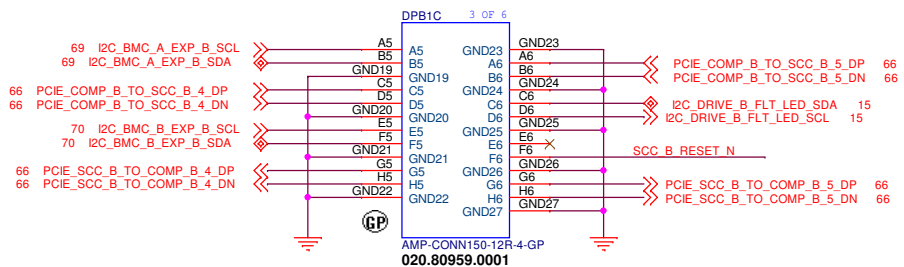
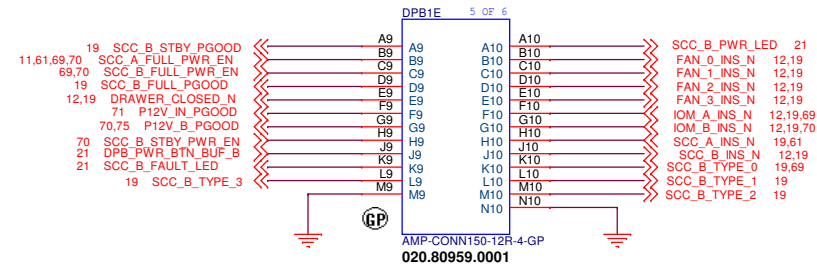
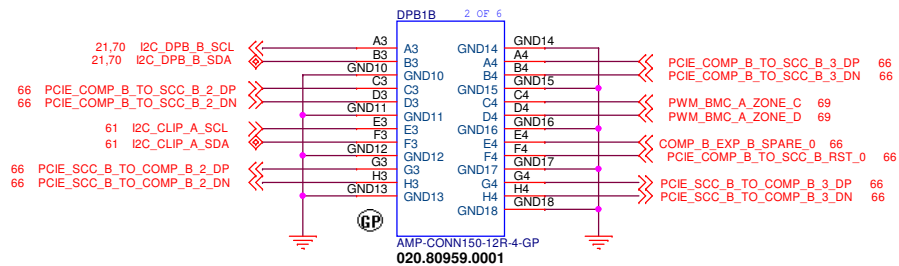
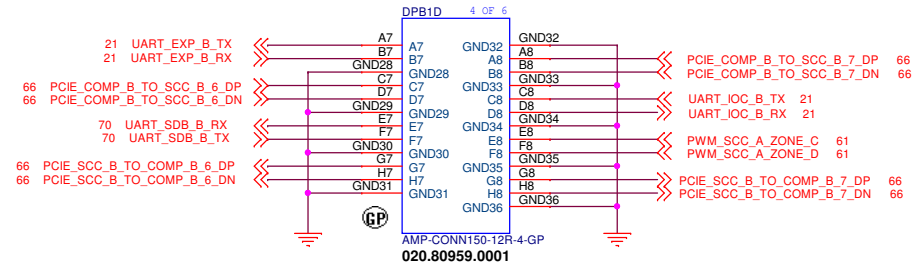
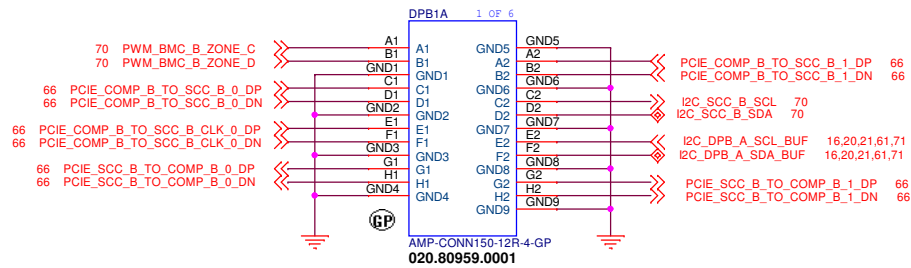
HDD35



DPB to DPB PWR CONN



DPB to DPB Signal CONN

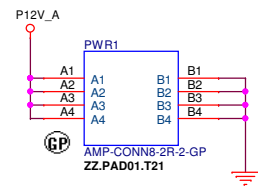


<Variant Name>

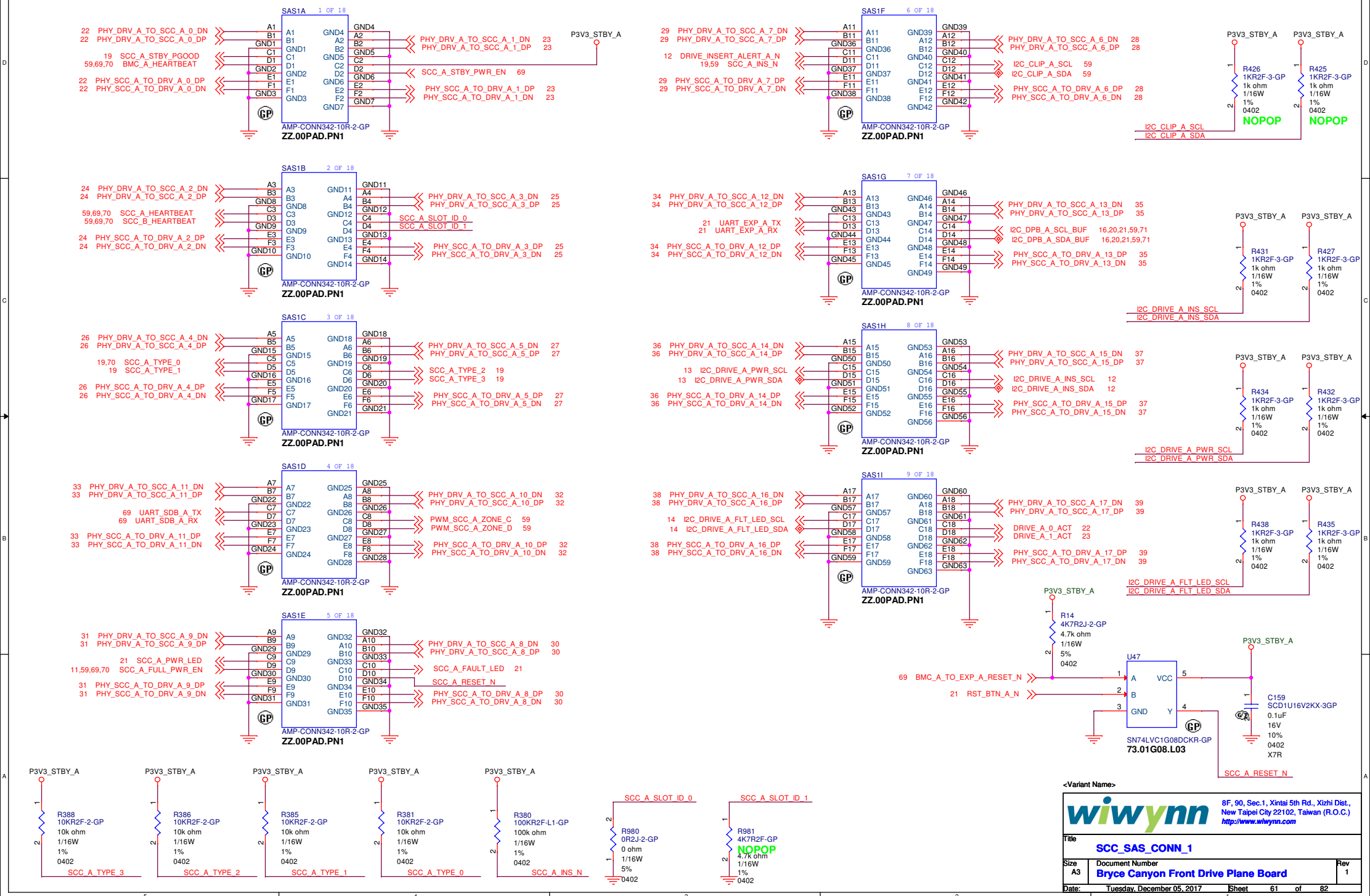
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New Taipei City 22102, Taiwan (R.O.C.)
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Title DPB SIGNAL CONN		
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Storage Controller Card PWR CONN



Storage Controller Card SAS CONN



<Variant Name>

wiwynn

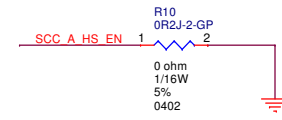
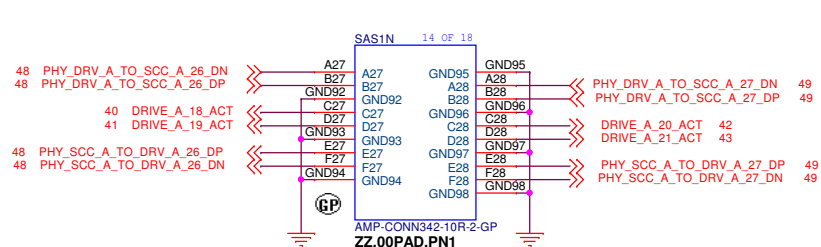
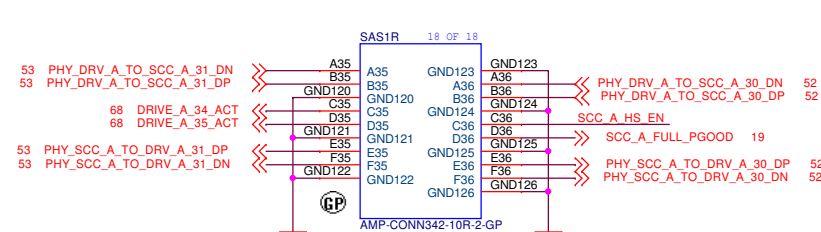
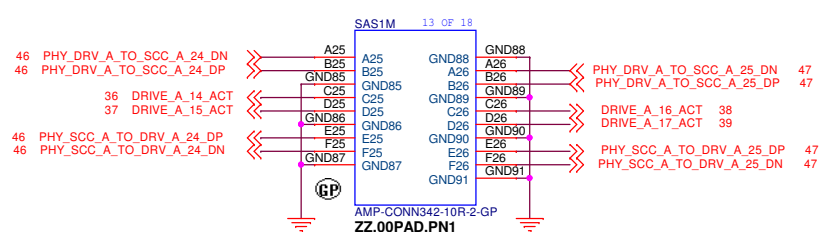
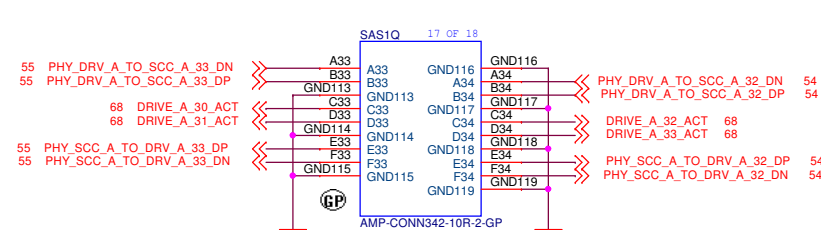
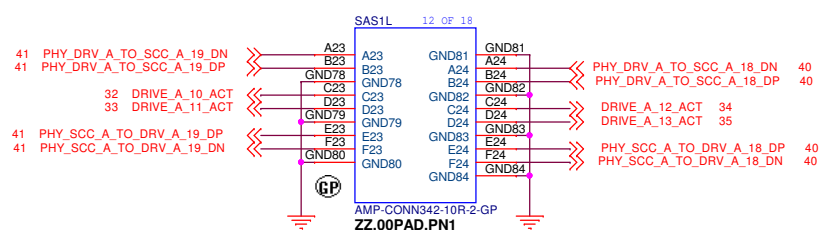
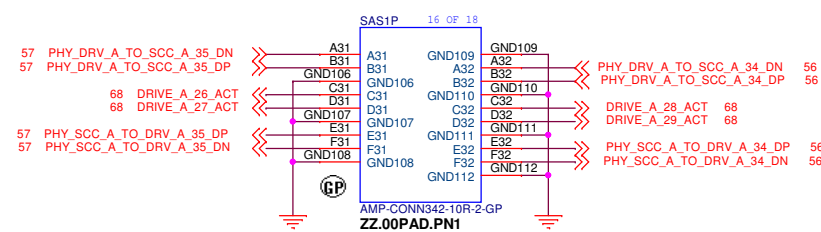
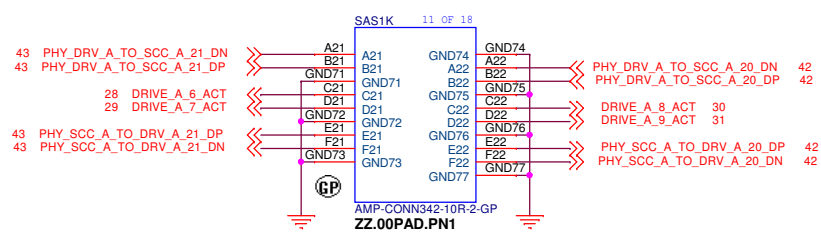
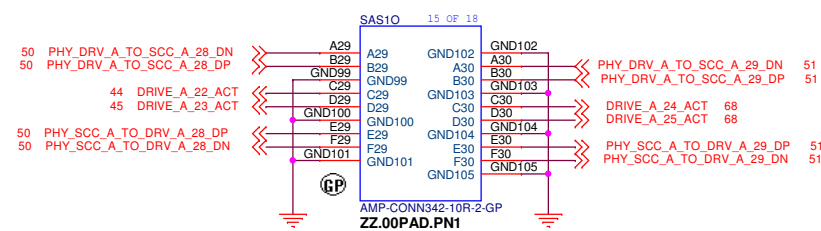
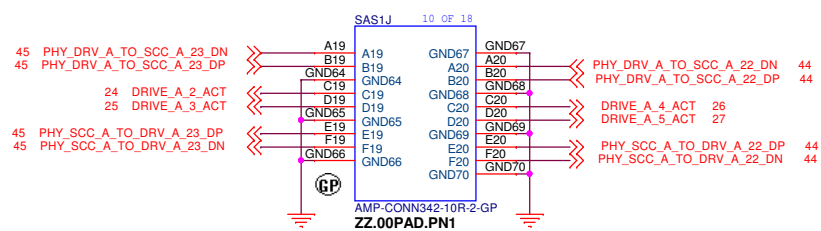
8F, 90, Sec.1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 22102, Taiwan (R.O.C.)
<http://www.wiwynn.com>

Title: **SCC SAS_CONN_1**

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Storage Controller Card SAS CONN



<Variant Name>

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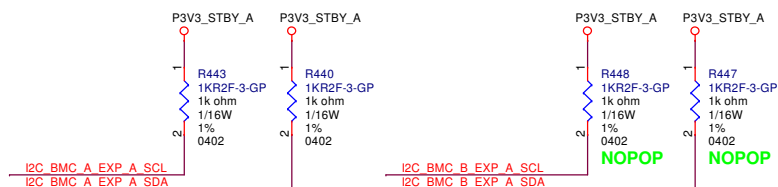
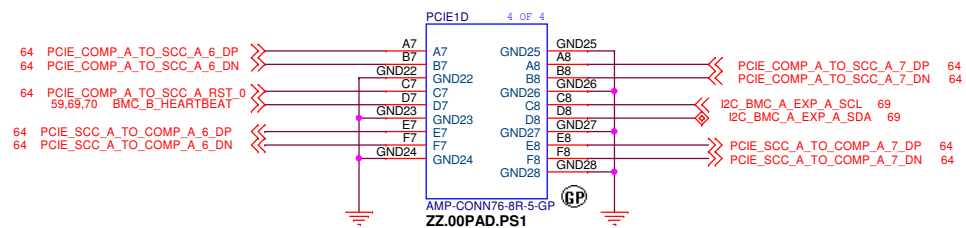
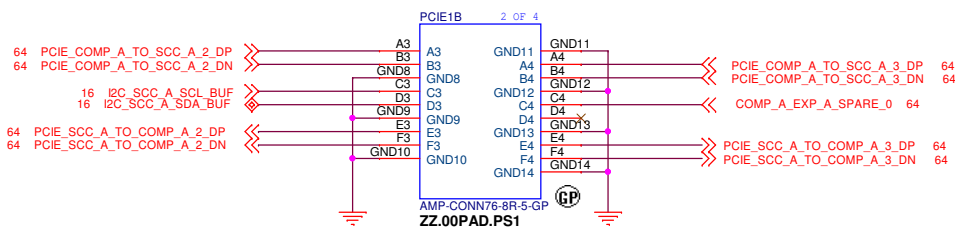
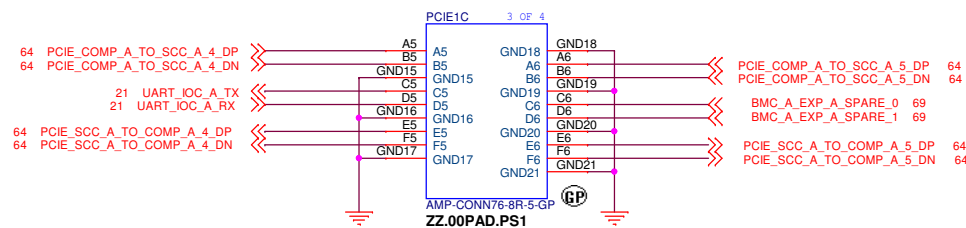
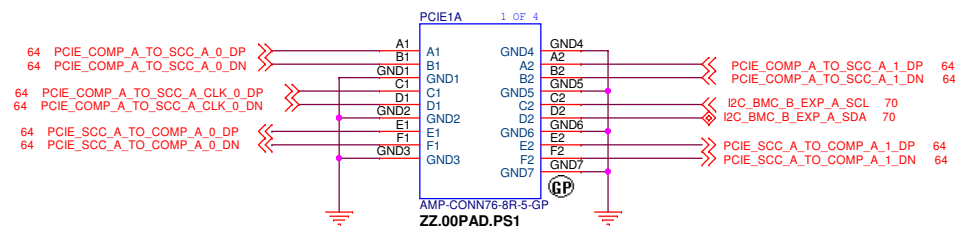
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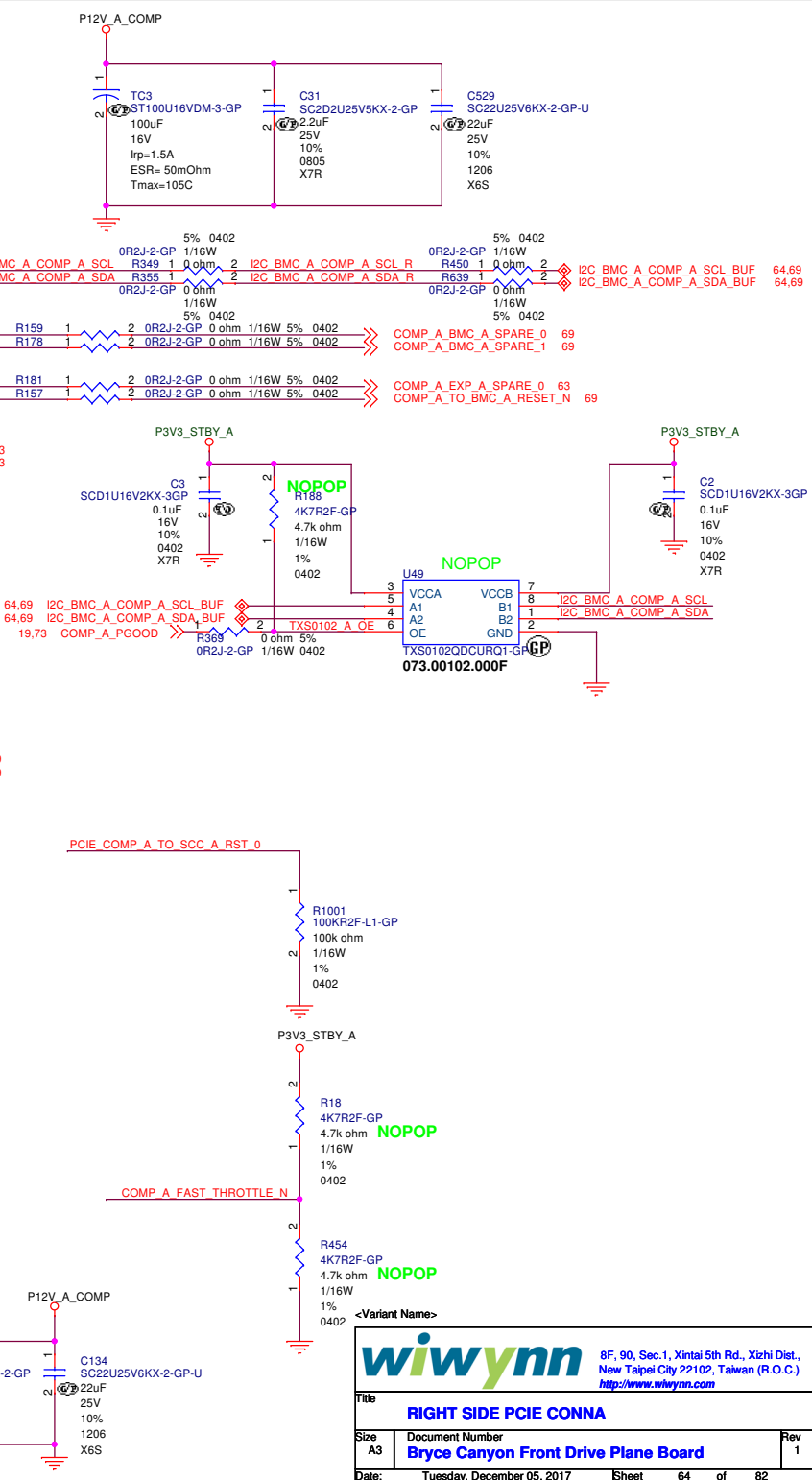
Size A3 Document Number
Bryce Canyon Front Drive Plane Board

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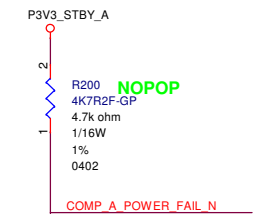
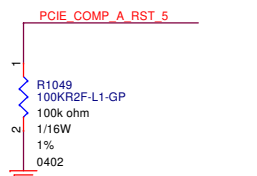
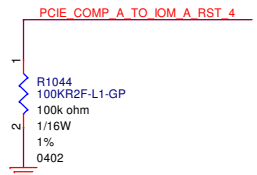
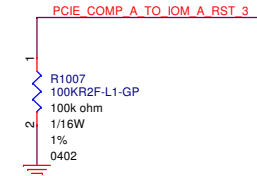
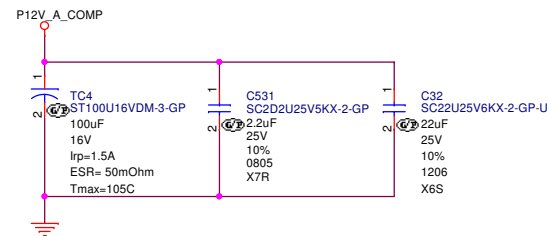
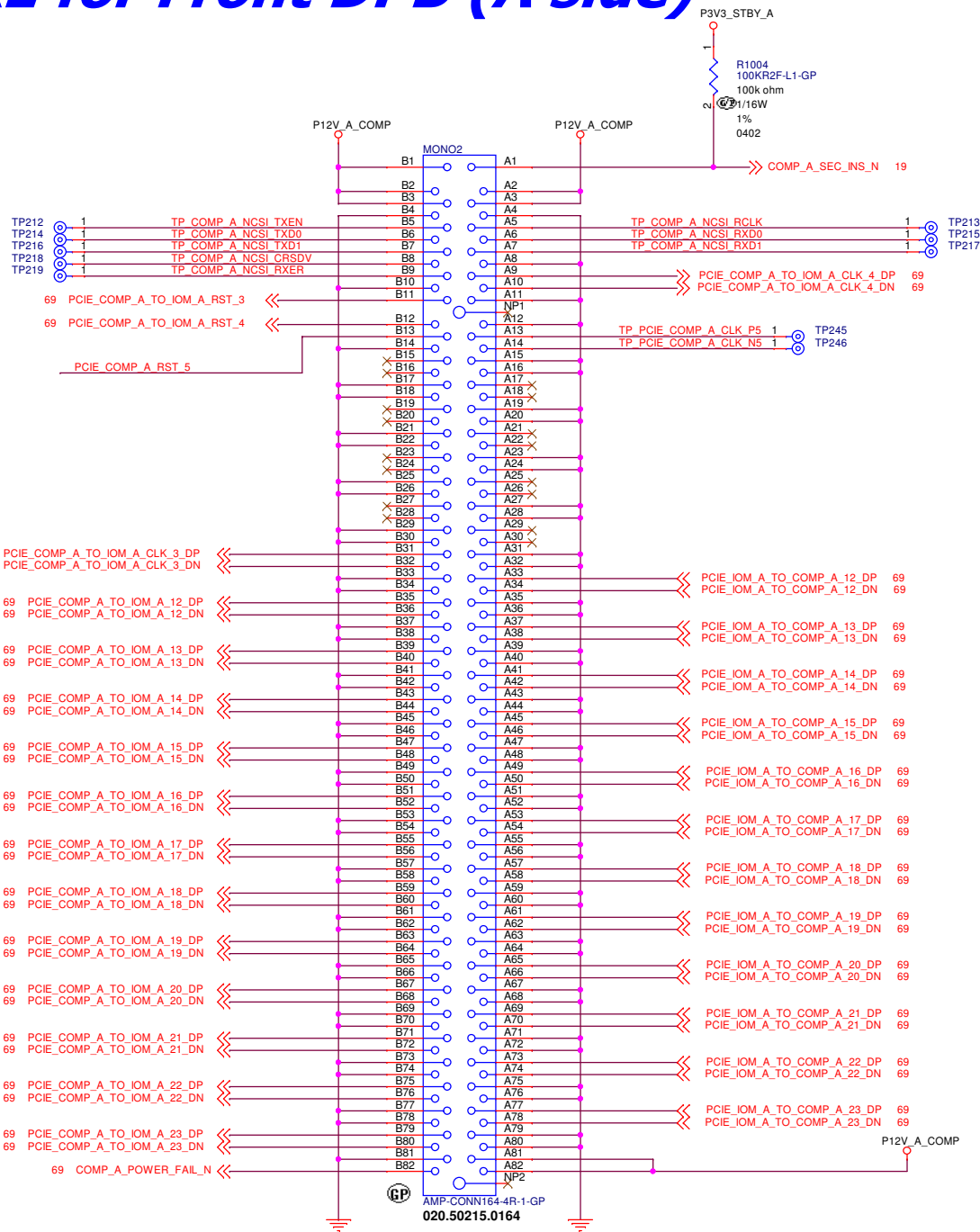
Rev 1

Storage Controller Card PCIe CONN



[illegible]

MONO LAKE for Front DPB (A side)



<Variant Name>

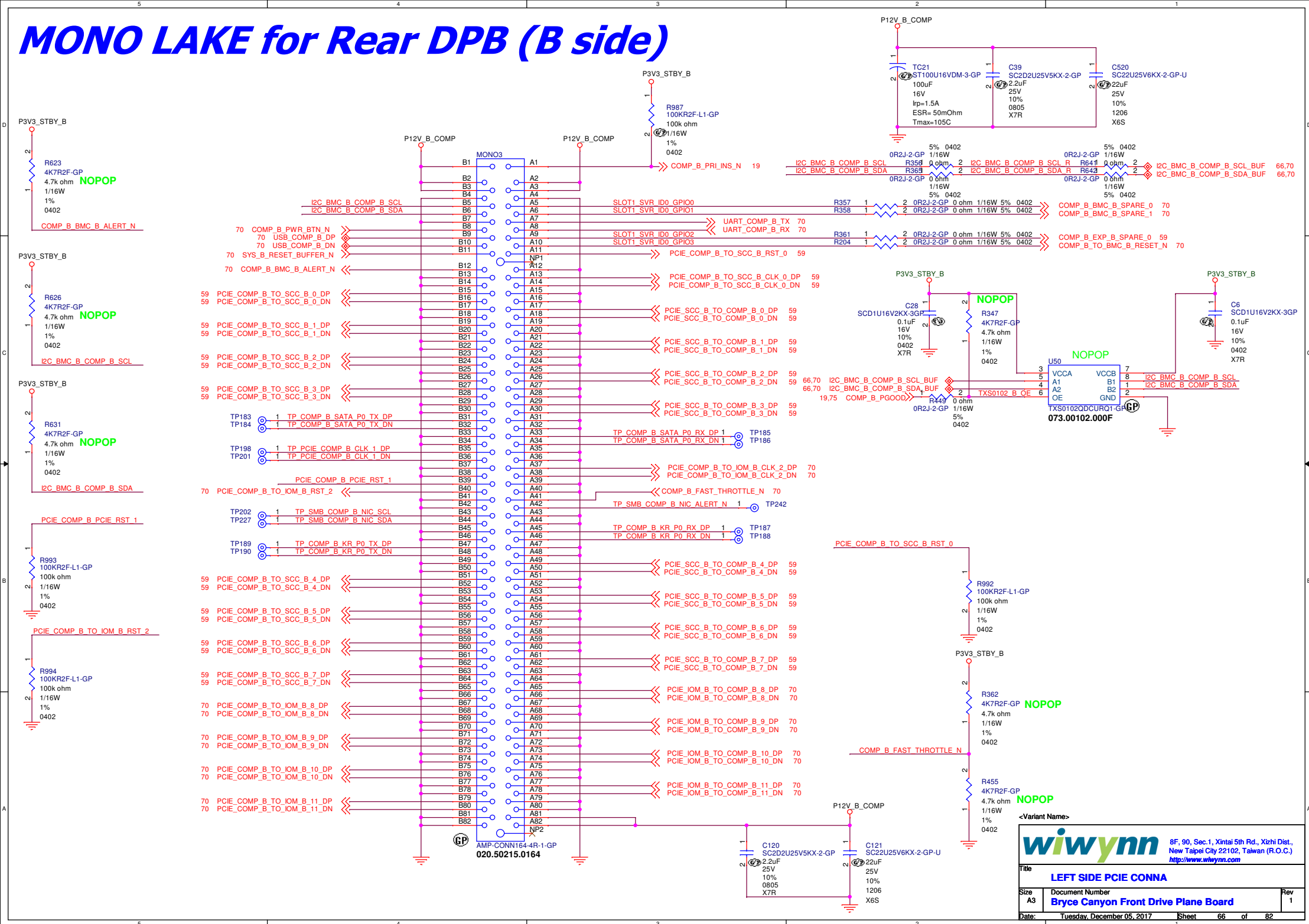
wiwynn 8F, 90, Sec.1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 22102, Taiwan (R.O.C.)
<http://www.wiwynn.com>

Title **RIGHT SIDE PCIE CONNB**

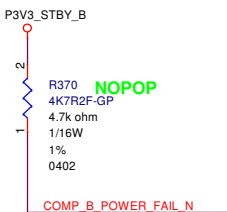
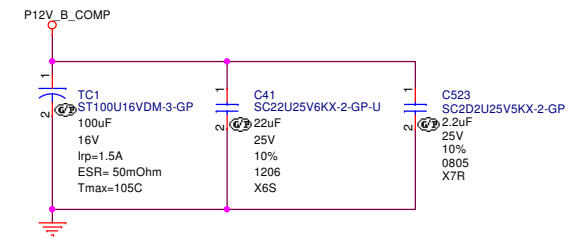
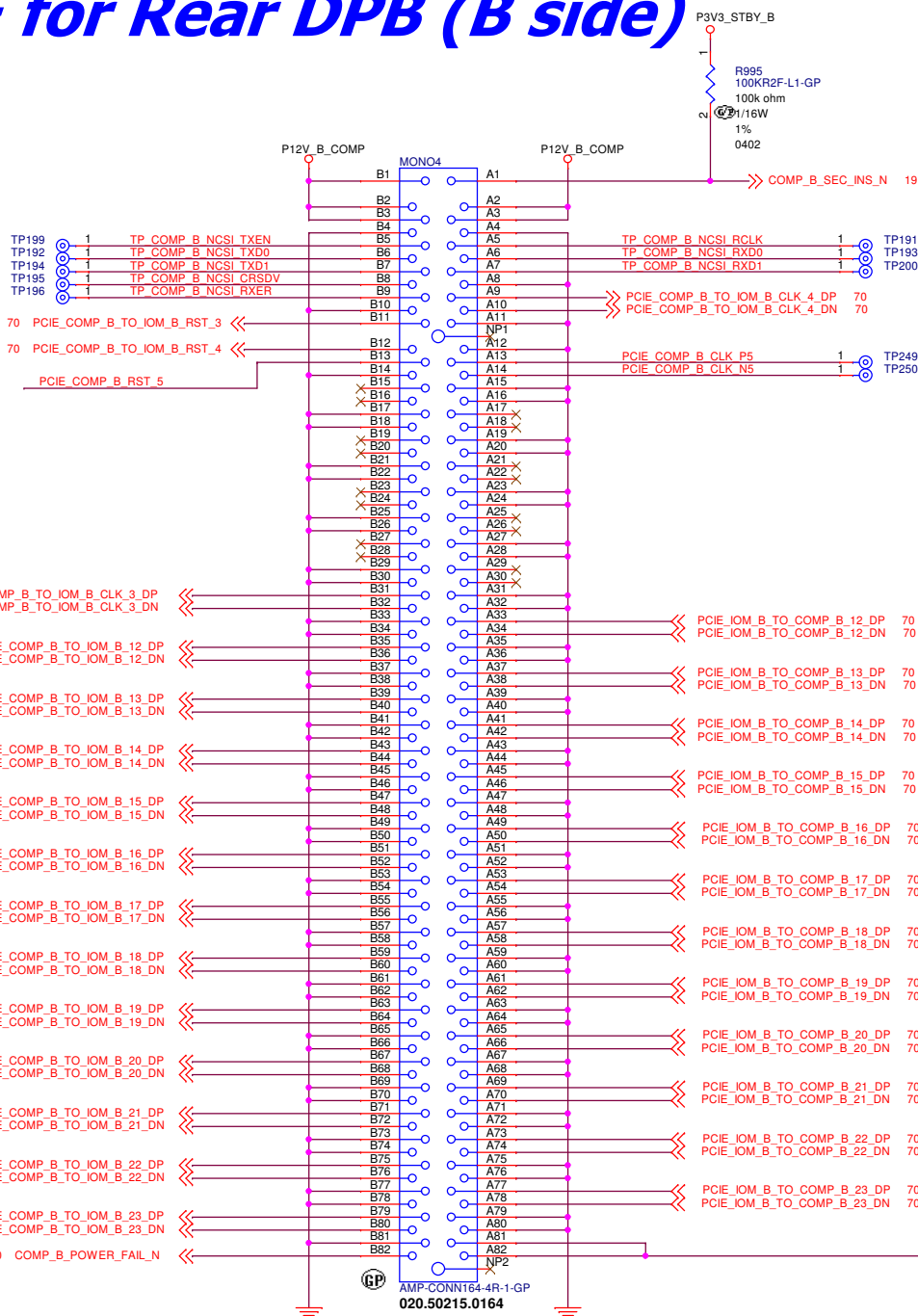
Size **A3** Document Number **Bryce Canyon Front Drive Plane Board** Rev **1**

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MONO LAKE for Rear DPB (B side)



MONO LAKE for Rear DPB (B side)



<Variant Name>

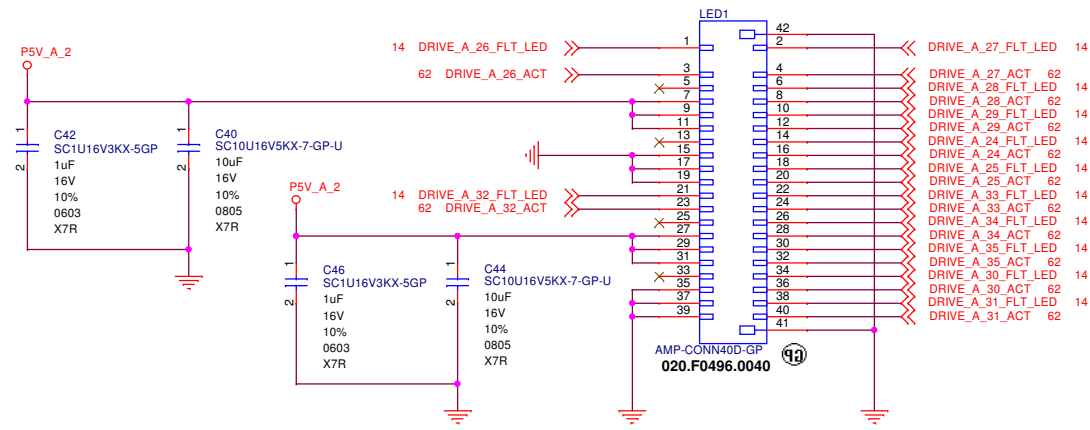
wiwynn 8F, 90, Sec.1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 22102, Taiwan (R.O.C.)
<http://www.wiwynn.com>

Title LEFT SIDE PCIE CONNB

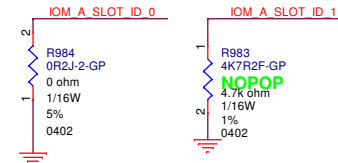
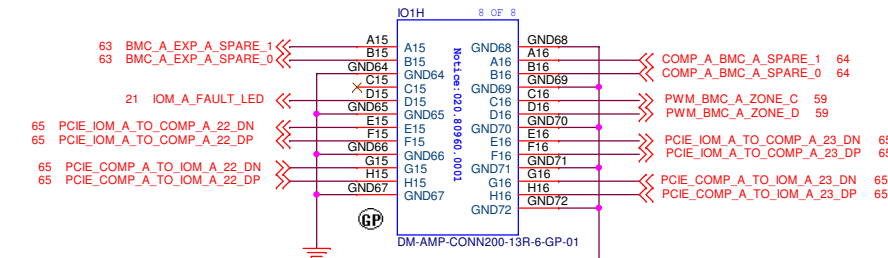
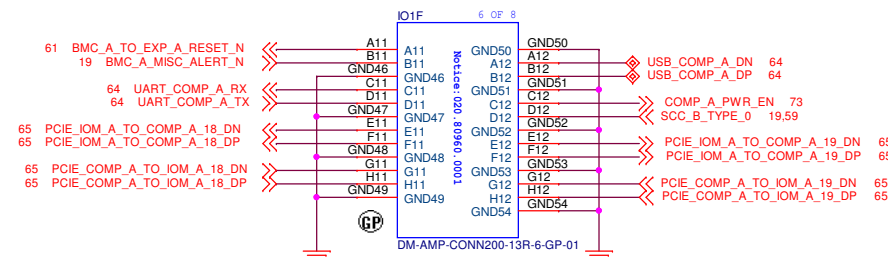
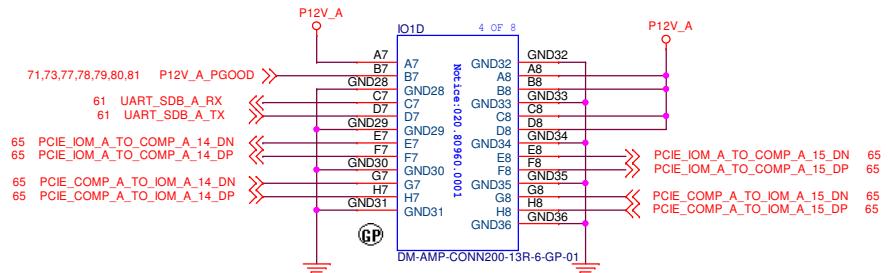
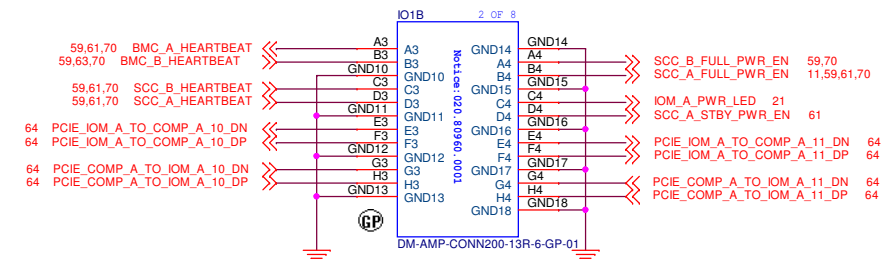
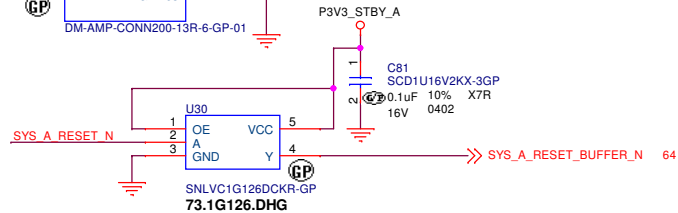
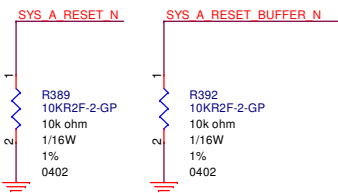
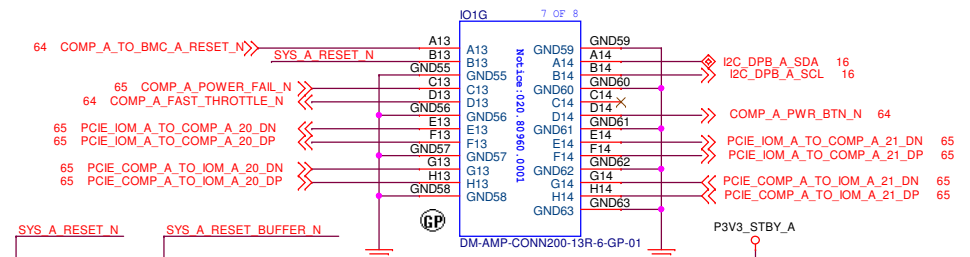
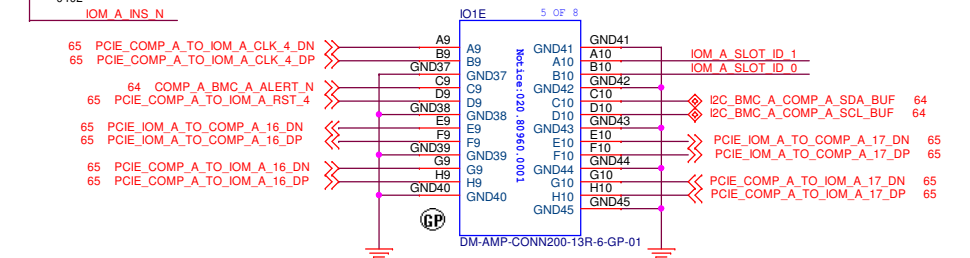
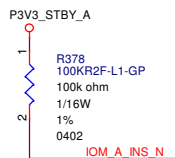
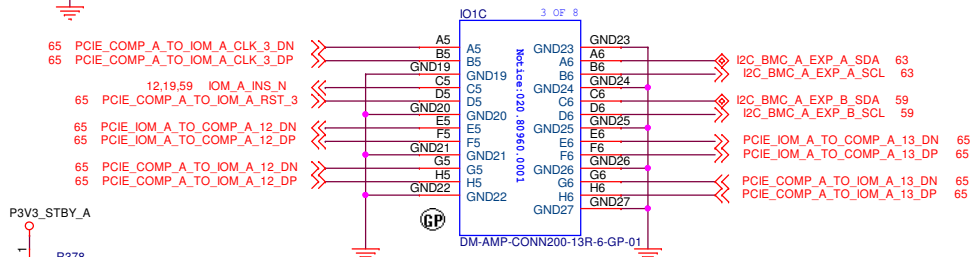
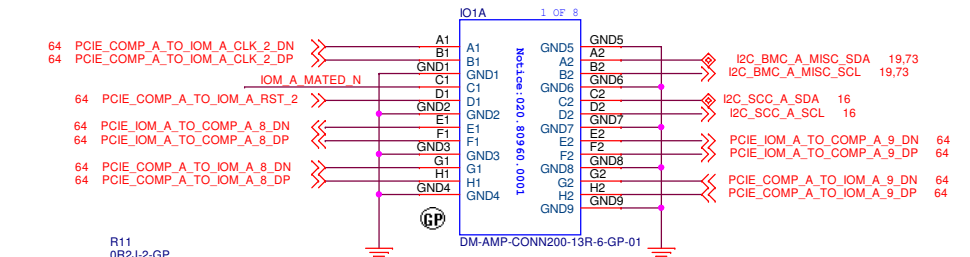
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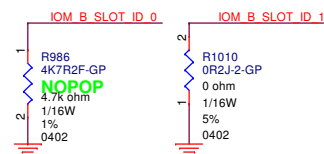
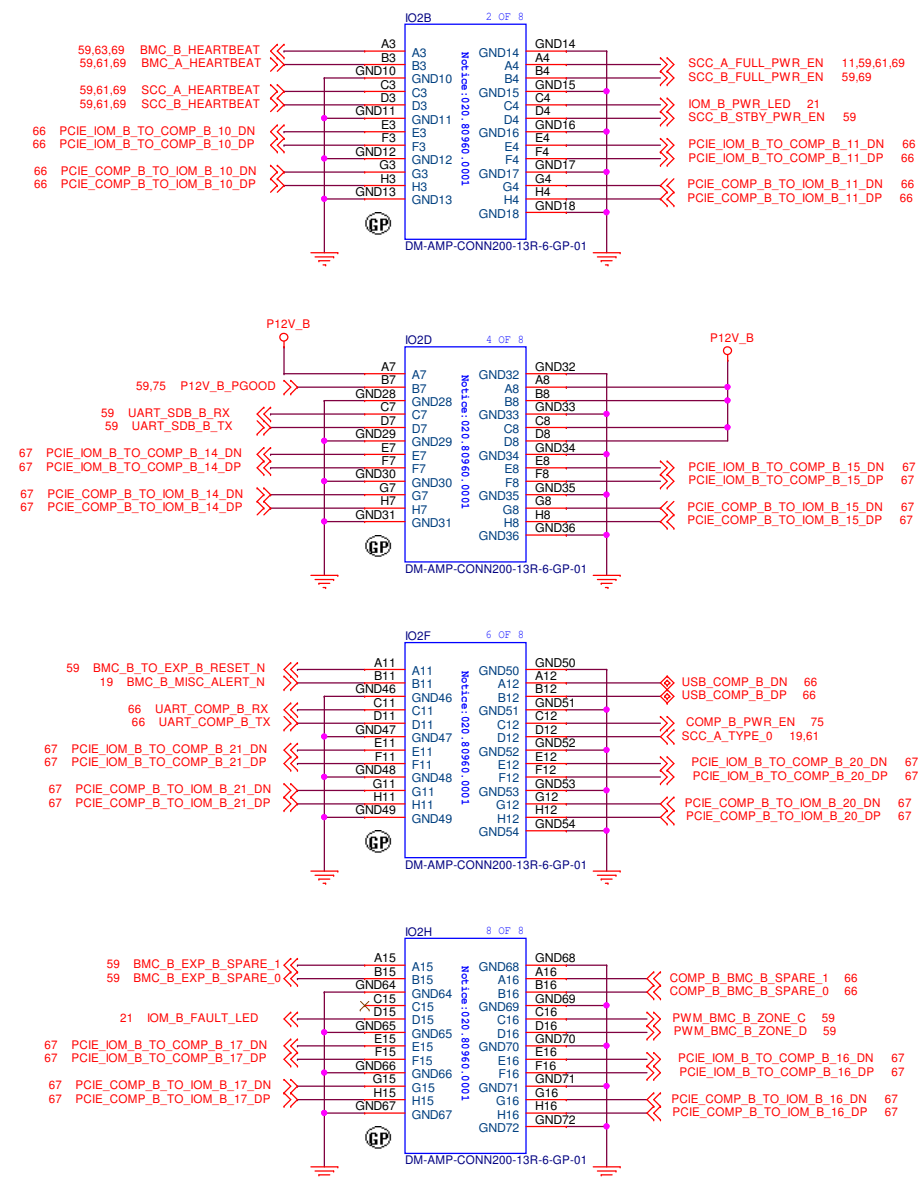
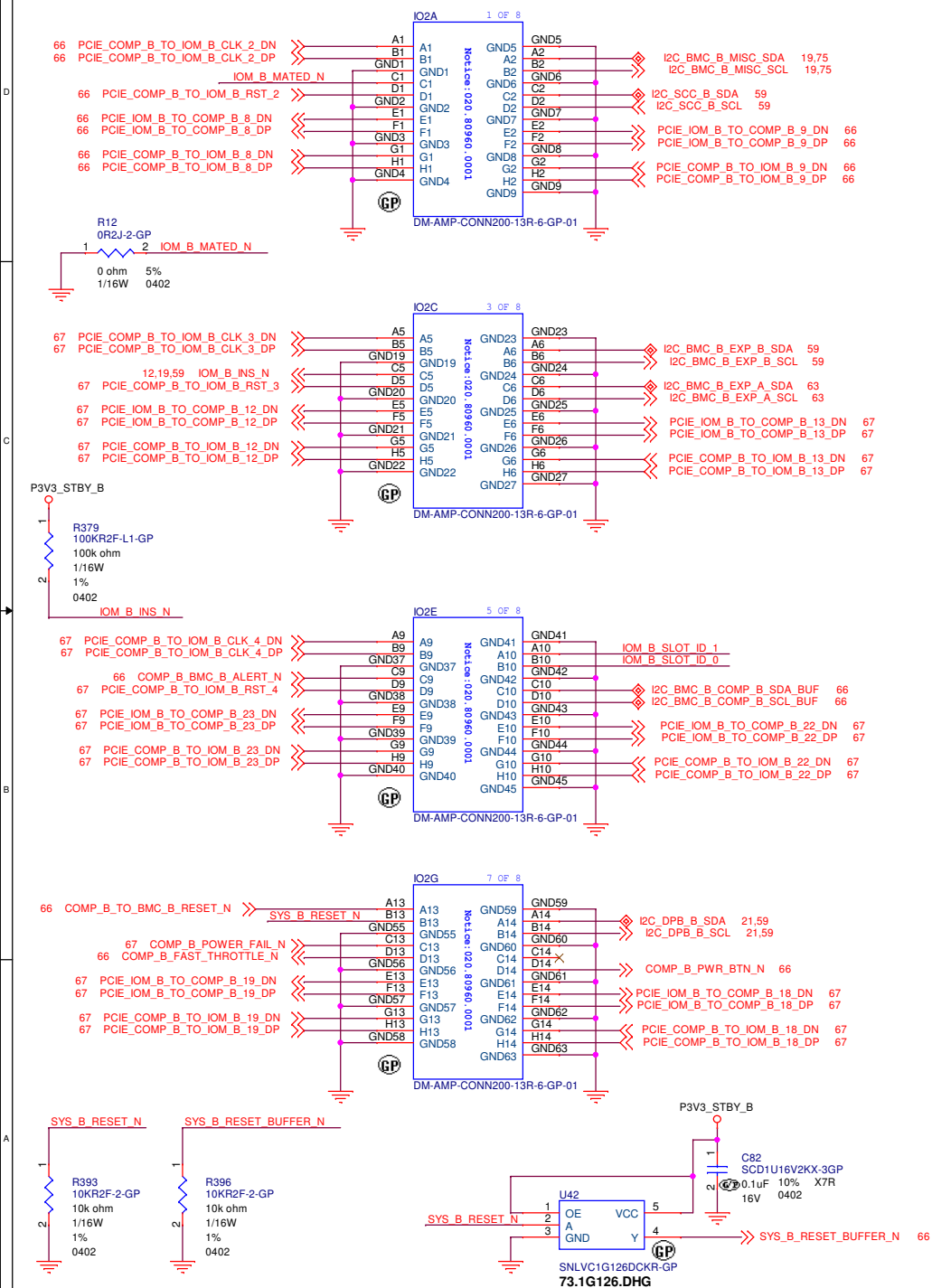
LED BOARD CONN



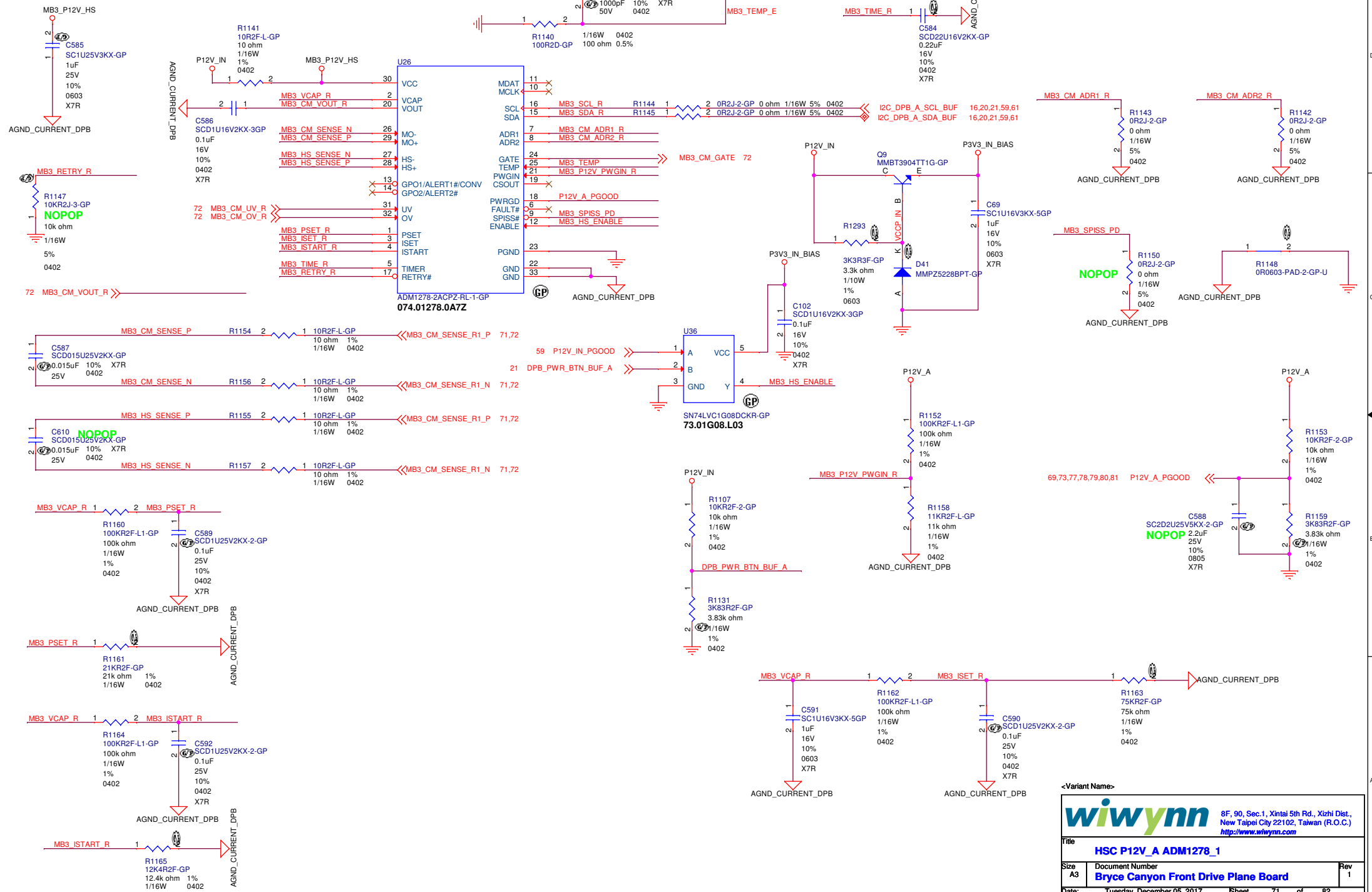
IO Module CONN (A Side)



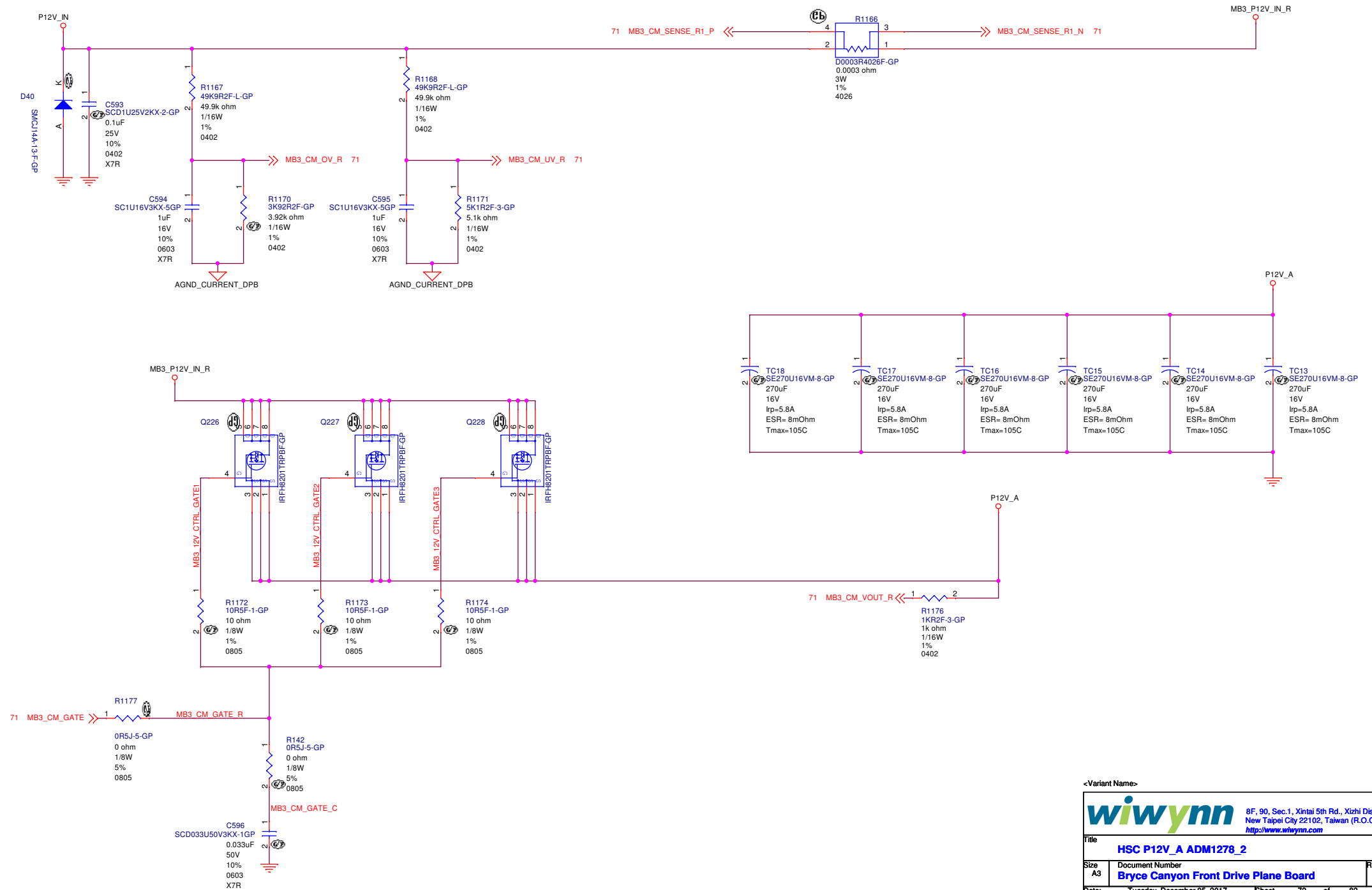
IO Module CONN (B side)



P12V_A HOTSWAP



P12V_A HOTSWAP



<Variant Name>

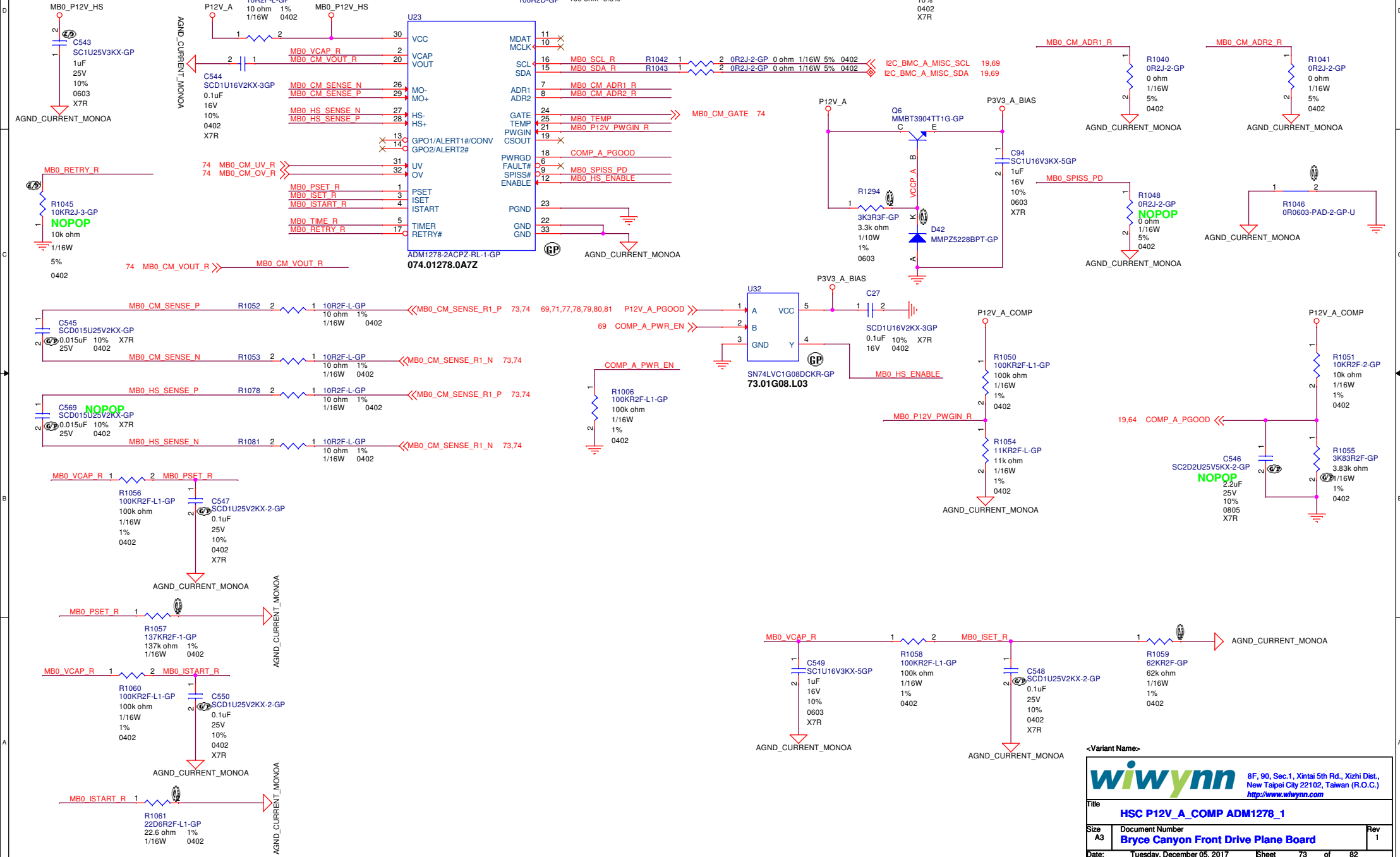
wiwynn 8F, 90, Sec.1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 22102, Taiwan (R.O.C.)
<http://www.wiwynn.com>

Title **HSC P12V_A ADM1278_2**

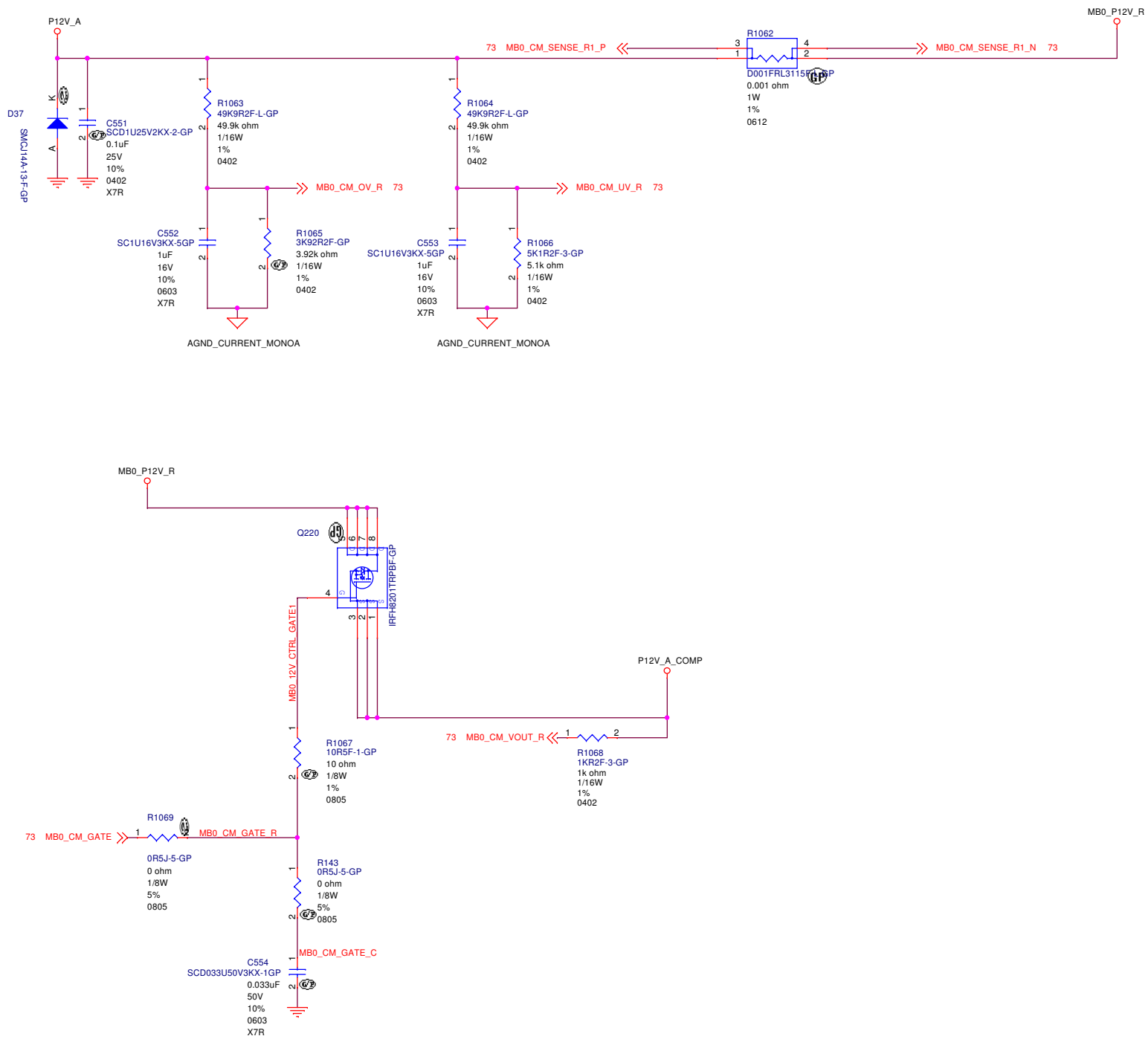
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P12V_A_COMP HOTSWAP



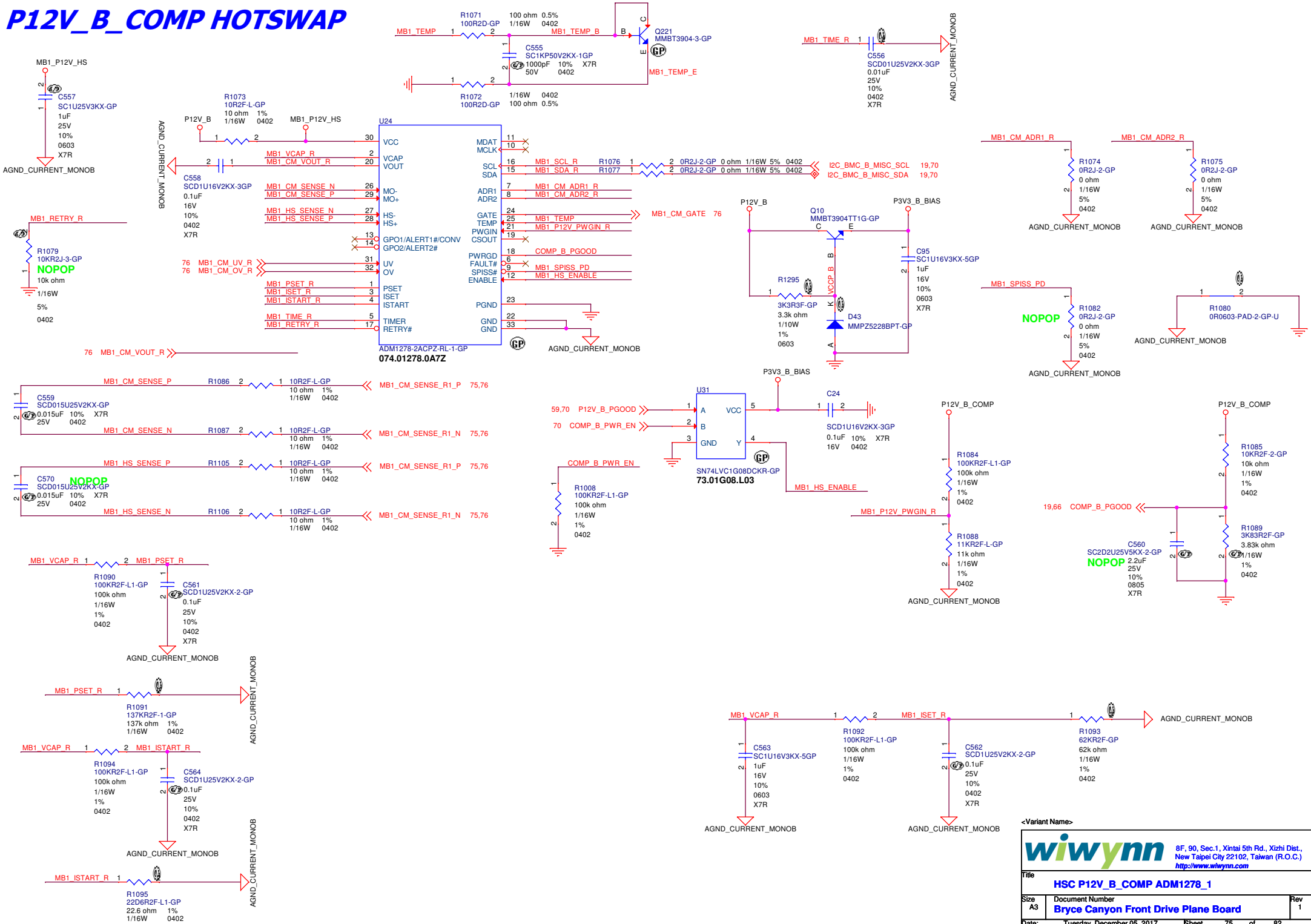
P12V_A_COMP HOTSWAP



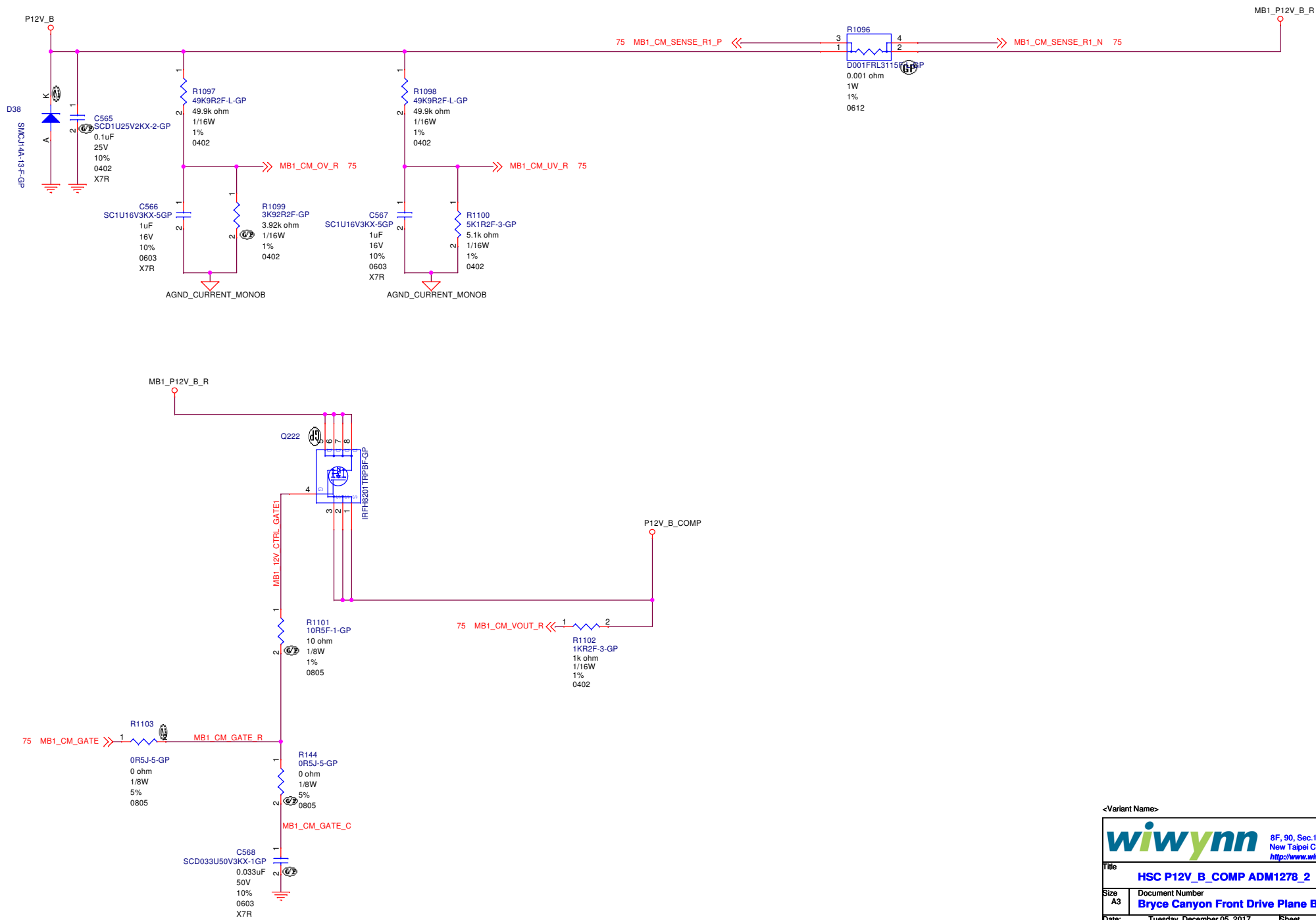
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Title HSC P12V_A_COMP ADM1278_2					
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P12V_B_COMP HOTSWAP



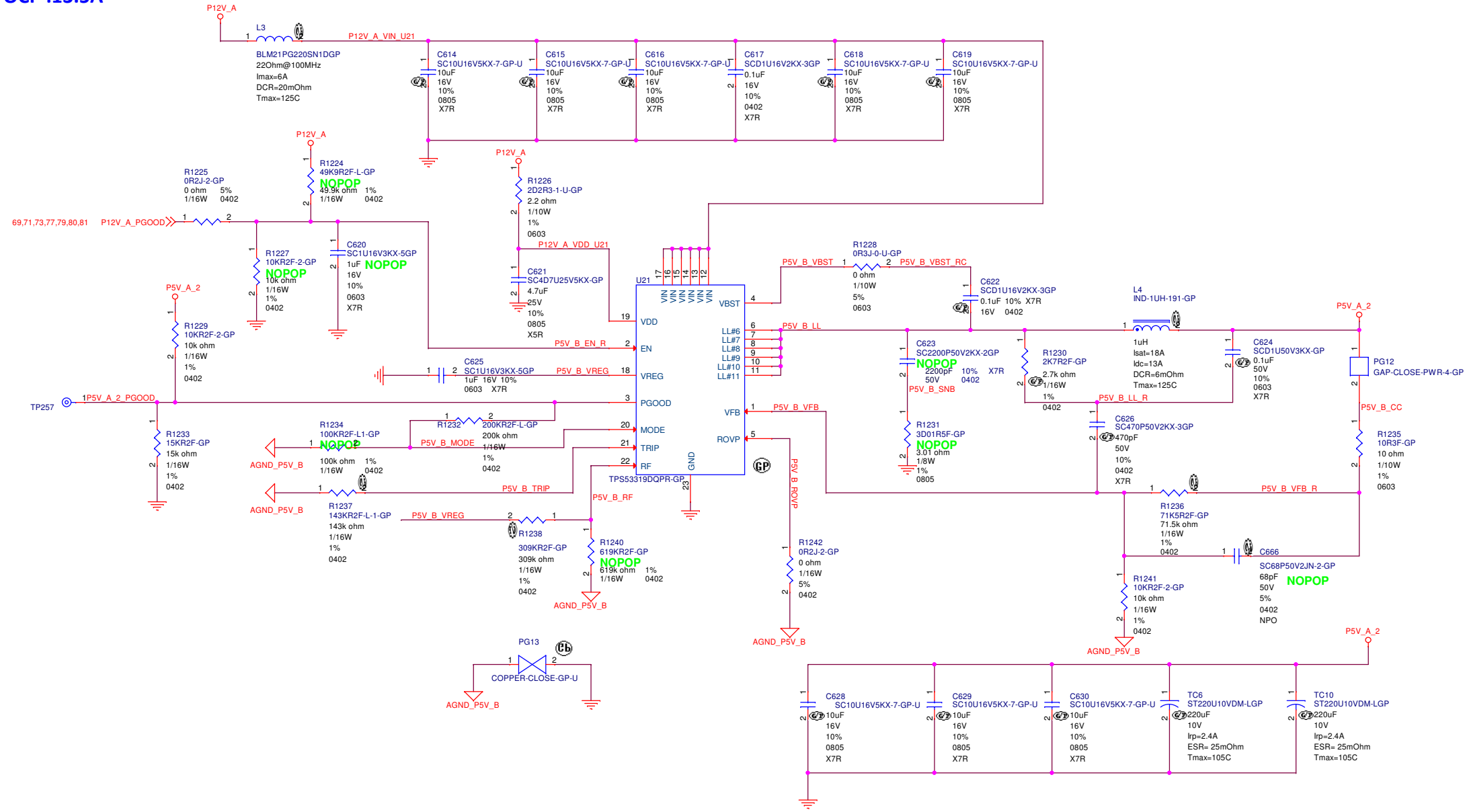
P12V_B_COMP HOTSWAP



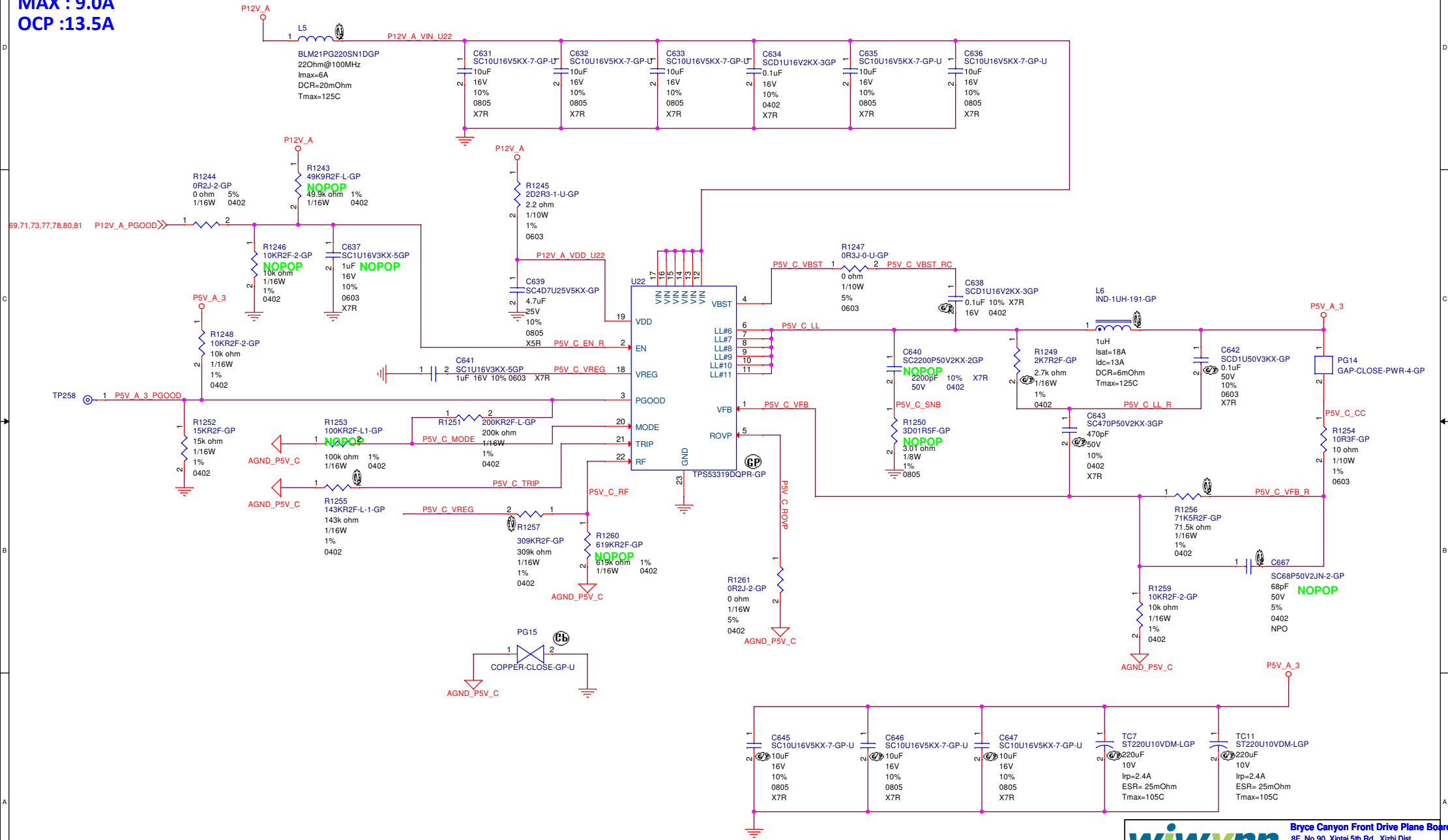
OCP :13.5A



Power rail : P5V_A_2 (5V)
Controller : TPS53319 (Fswitching=750KHz)
TDC :9.0A
MAX : 9.0A
OCP :13.5A




Power rail : P5V_A_3 (5V)
Controller : TPS53319 (Fswitching=750KHz)
TDC :9.0A
MAX : 9.0A
OCP :13.5A

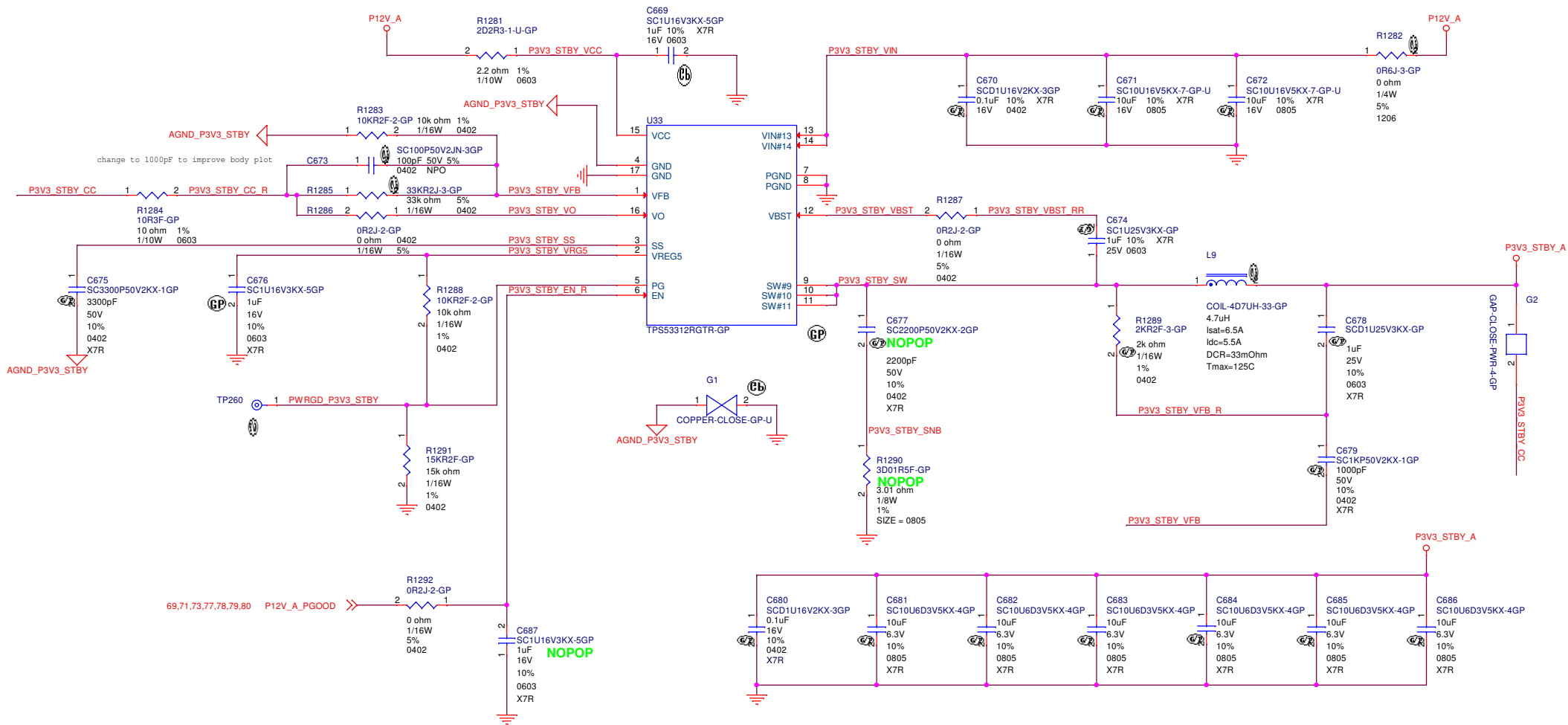


wiwynn Bryce Canyon Front Drive Plane Board
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<http://www.wiwynn.com>

Title			PWR5V_P5V_A_3_TPS53319
Size	A3	Document Number	Bryce Canyon Front Drive Plane Board
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		Bryce Canyon Front Drive Plane Board 8F, No.90, Xintai 5th Rd., Xizhi Dist, New Taipei, Taiwan http://www.wiwynn.com	
Title			
PWRSW_P5V_A_4_TPS53319			
Size	Document Number		Rev
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Power rail : P3V3
Controller : TPS53312 (Fswitching=700KHz)
TDC : 2A
MAX : 2A
OCP : 4.1A



Screw & Hole

