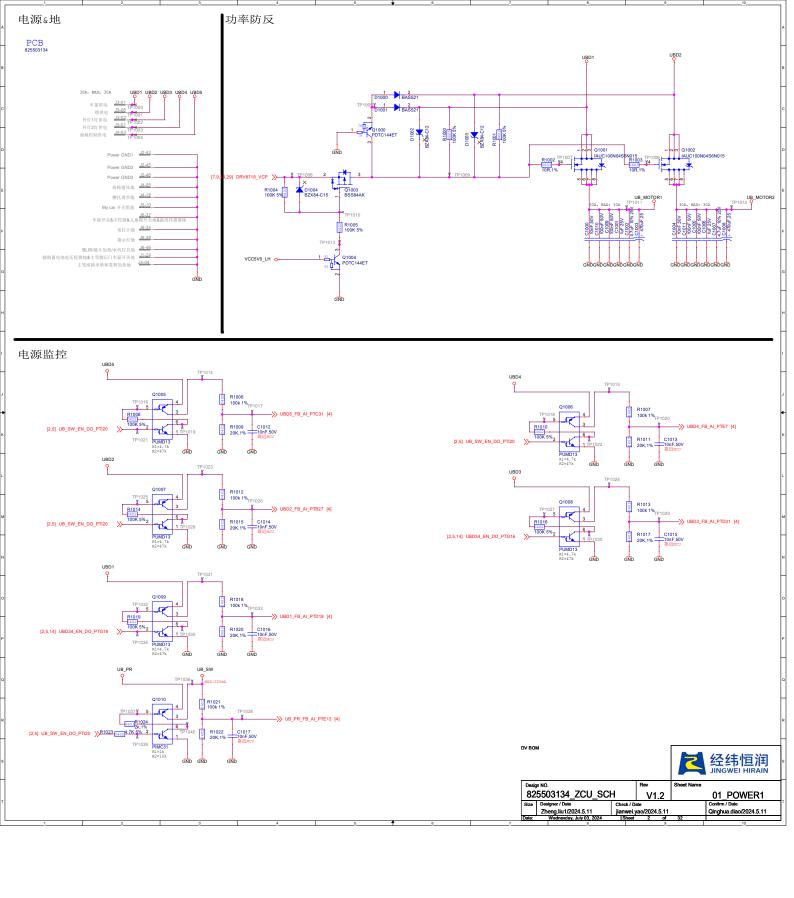
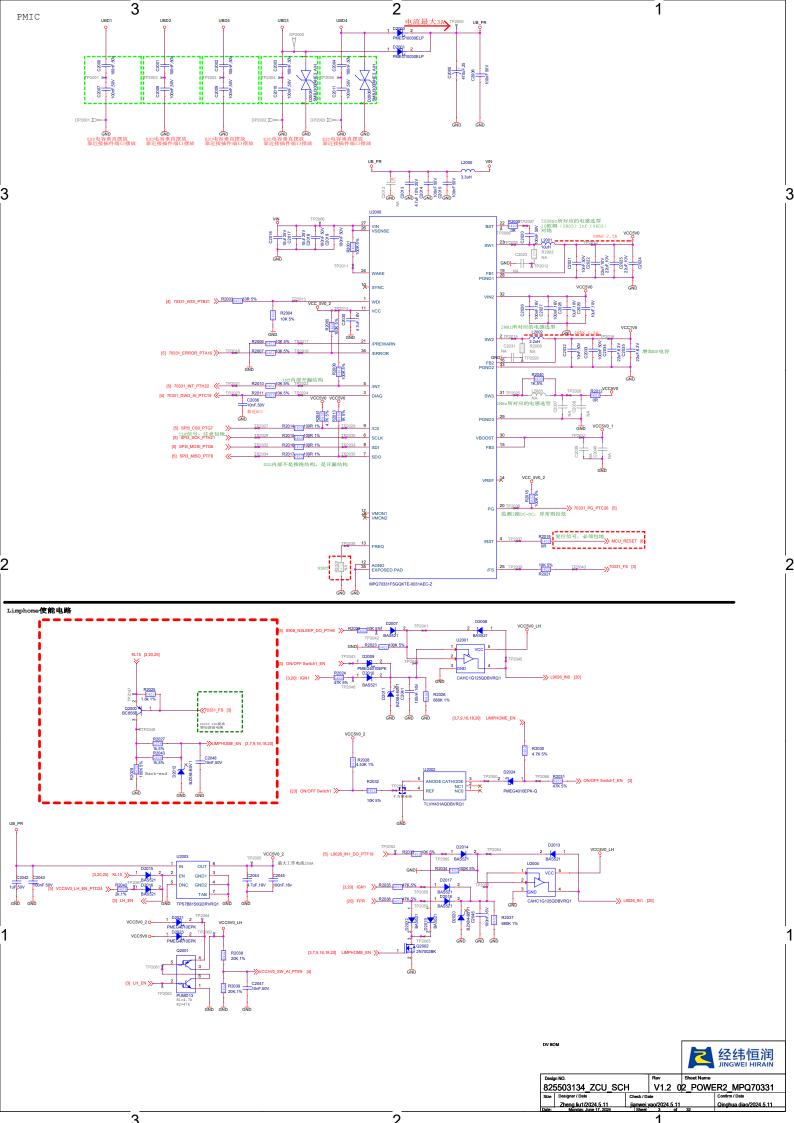
PCB Layout Information					
项目名称:	吉利zcu_L技术研发项	[目			
项目编号:	AP238018	项目经	哩:	张红玲	
LAYOUT工程师:	付晶晶	应用工	程师:	刘铮/冯成臣	₹.
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输入信息: Input Information:					
输入时间:	Ι				
Input Time:	2024-05-11	PCB	ERP Number:	825503134	
原理图名称:	825503134 ZCU SCH	<u>'</u>		版本:	V1.2
Shematics Name :	023303131_200_5011			Version:	V1.2
DXF文件名称: DXF File Name:	825503134_BCM_DXF			DXF状态: DXF State:	
PCB层数:		PCB基	長材:		
PCB Layer Number:	6 Layers		Base Material:	FR4	
表面处理:	HASL	板厚		1.6mm+/-0.1	4
Surface Handing: 外层铜厚:			kness: 层间距:		
Finished Copper Thickness:	50um		r1 to Layer2 :	0.16mm	
2和3层间距:	0.5mm		层间距:	0.24mm	
Layer2 to Layer3:	J. Juliu	Laye	r3 to Layer4 :	V • 2 - Hull	
其他要求: Other :	_				
××××××××××××××××××××××××××××××××××××××		XXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXX	·
输出信息: Output Information:					
LAYOUT文件名称:	825503134 BCM LAYOU'	T brd		版本:	V1.2
LAYOUT File Name:	023303134_BCH_EM100			Version:	V1.2
DXF文件名称: DXF File Name:	825503134_BCM_DXF				
emp/emn文件名称:			注意	: 导出三维信息的	t, 输入和输出文件
emp/emn File Name:	NA		ا القراعة ا	都应为英文字符,	t, 输入和输出文件 否则不能正确生成。
Gerber文件名称: Gerber File Name:	PWR.art Silkscre BOT.art Silkscre Assembly	ask_Bot.art Deen_Top.art een_Bot.art 7_Top.art 7_Bot.art	rill_Dimention.pdf		
Drill文件名称: Drill File Name:	Ger_Con_Drill.drl				
Route文件名称:	Ger Con Route.rou		∴ 注音. /m	用pap 上右导形习	请生成ROUTE文件。
Route File Name:	Get_con_Noute:10u		红海: 如	**CD	HIMACOIEX II o
其他输出: Other :	_				
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需要注意的问题: Weed to Attention ! :					
敏感信号线: Sensitive Signal Line:					
易干扰信号线:	I THE DIES				
Interference Signal Line:	LIN BUS				
射频信号线:	LF driver antenna to	erminal			
RF Signal Line: 等长信号线:					
寄い信与数: Same Delay Signal Line:	-				
差分对:	CAN BUS				
Differetial Signal Line: 大电流:					
High Current:					
其他:	NA				
Other : 其他:					
共他: Other :	NA				
		XXXXXXXXXX	******	XXXXXXXXXX	XXXXXXXXXXXXXXXX
			DV BOM		
					经纬恒润 JINGWEI HIRAIN
其他详见原理图内部信息。		ı	Design NO.	Rev Sh	eet Name
其他详见原理图内部信息。 如有未尽事宜,请和应用工	種师沟通。		825503134_ZCU_S0		00_INFORMATION
			Size Designer / Date	Check / Date	Confirm / Date

jianwei.yao/2024.5.11 |Sheet 1 of

Qinghua.diao/2024.5.11

Zheng.liu1/2024.5.11 Monday, June 17, 2024



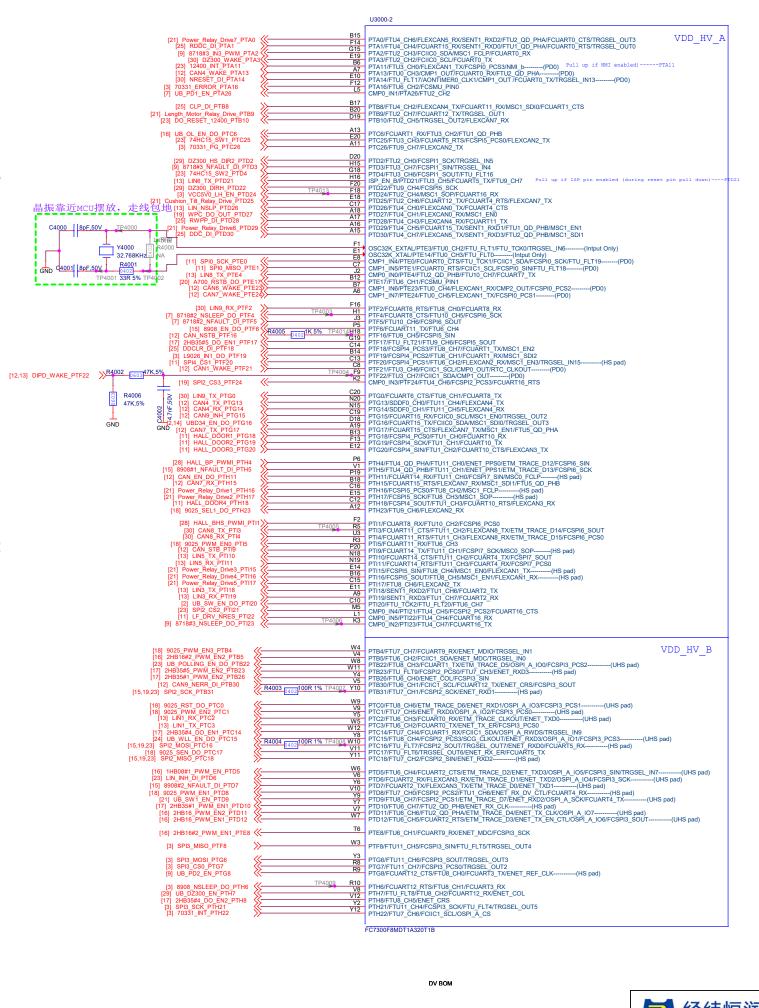


U3000-1 [28] HALL [TO PWMI PTG1 | 113] LINE RX PTA22 | 114] LINE RX PTA21 | 128] HALL CHIS PWMI PTG2 | 121] CANS RX PTG15 | 129] HALL CHIS PWMI PTG3 | 129] LINE RX PTA23 | 129] HALL CHIS PTG3 | 129] PWMI PTG3 | 129 [19] [13] [13] [9] [7,9,20] [7,9,20] [7,9,20] [29] R3000 0402 100R 1% TP300 R3001 0402 100R 1% TP300 [14] EDM AL PTI0
[29] DZ300\_CM FB\_PTH1
[13] LIN2\_RX\_PTA15
[13] LIN2\_RX\_PTA15
[22] SW\_Lumbar Height AL PTH2
[23] EXTIVO\_A2\_PTA20
[13] LIN2\_TX\_PTA18
[23] EXTIVO\_A1\_PTG23
[23] EXTIVO\_A1\_PTG23
[23] EXTIVO\_A1\_PTG23
[23] EXTIVO\_A1\_PTG21 R3007 1K 5% R3004 0402 1K 5% R3006 0402 1K 5% R3005 0402 1K 5% EXTID AT P1623
EXTID AT P1623
SPIO C51 PT622
SPIO C51 PT621
SPIO C51 PT621
[24] DDDOSS DI WAKE PTF0
[24] TLRS DI WAKE PTF0
[24] TLRS DI WAKE PT60
[24] TLRS DI WAKE PT62
[24] DDHPB1 DI WAKE PT629
[24] RDDODOS DI WAKE PT627
[24] RDDODOS DI WAKE PT627
[27] RRODOS DI WAKE PT625
[12] CAN3 WAKE PT625
[12] CAN3 WAKE PT625
[12] CAN4 WAKE PT625
[12] CAN4 WAKE PT621
[13] CAN4 TANF P162
[12] CAN4 TX PT62
[12] CAN5 AL PTH62
[12] ROWLS AL PTH62
[12] ROWLS AL PTH62
[12] ROWLS AL PTH62
[12] ROWLS AL PTH68
[13] ON/OFF SWIICH1 AL PTC7
[12] UBD3 FB AL PTD31 R3003 0402 47K 5% TP3010 [22] DOD AL PTC23
[24] GLRX AI PTH9
[19] BVC AL PTC24
[21] Seat\_Motor\_Group1\_Current\_PTC10
[30] TRIX | FB AL PTF7
[17] TPS2HB35#5 SNS AL PTH10
[24] GUDY AL PTC11
[15] SPI2\_CS1\_PTC27
[11.30] SPI4\_SCK\_PTC9
[30] SPI4\_CS0\_PTC8
[12] CANS\_RX\_PTC29
[11.30] SPI4\_MISO\_PTA7
[13] SPI4\_MISO\_PTA7
[13] SPI4\_MISO\_PTA7
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[14] EDM\_EN\_PWM\_DO\_PTA6
[22] UBD5\_FB AL PTC37
[22] UBD5\_FB AL PTC37
[23] SPI4\_MISO\_PTA7
[24] UBD5\_AR PTD19
[25] WILLS\_AR PTD19
[26] WILLS\_AR PTD19
[27] WILLS\_AR PTD19
[28] SPI1\_CS3\_PTB17
[29] SPI3\_CS3\_PTB17
[20] SPI4\_MISO\_PTH13
[29] SPI3\_CS3\_PTB17
[20] SPI3\_CS3\_PTB17
[20] SPI3\_CS3\_PTB17
[22] DWS\_AR PTH14
[23] SPI4\_CS3\_PTB17
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[28] SPI3\_CS3\_PTB19
[29] SPI3\_CS3\_PTC3\_PTB13
[21] SW\_LUMBA\_FORWA\_PTB13
[22] SW\_LUMBA\_FORWA\_PTB13
[23] SW\_LUMBA\_FORWA\_PTB13
[24] SW\_LUMBA\_FORWA\_PTB13
[25] SW\_LUMBA\_FORWA\_PTB13 100R 1% R3009 100R 1% [16] 2HB16, FB1, AI PTB29
[26] CLP, AI PTG12
[12] CAN9, TX, PTC20
[13] CAN9, TX, PTC20
[16] CAN9, TX, PTC31
[16] AIR STANDARD AIR STAND [16] 2HB16\_FB1\_AI\_PTB29 [26] CLP\_AI\_PTC12 W16 Y17 V15 Y16 R14 T20 R19 FC7300F8MDT1A320T1B

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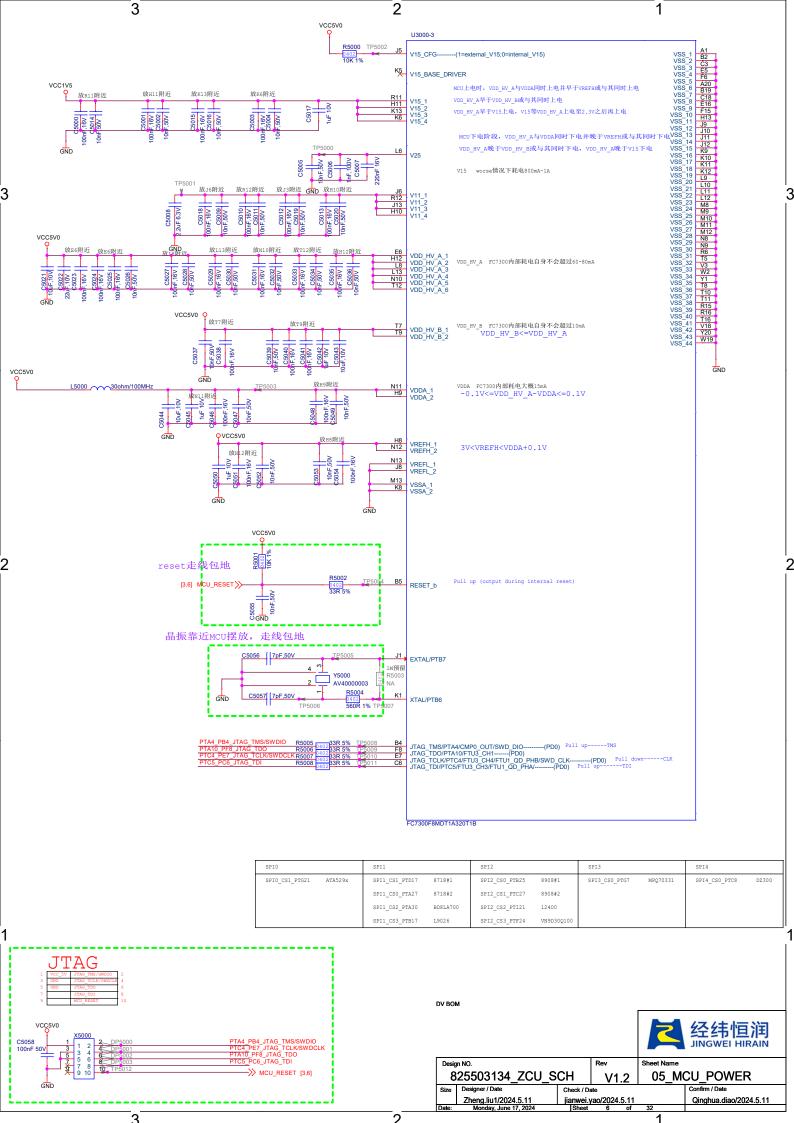
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Date:	Monday, June 17, 2024	Sheet	4 of	32		

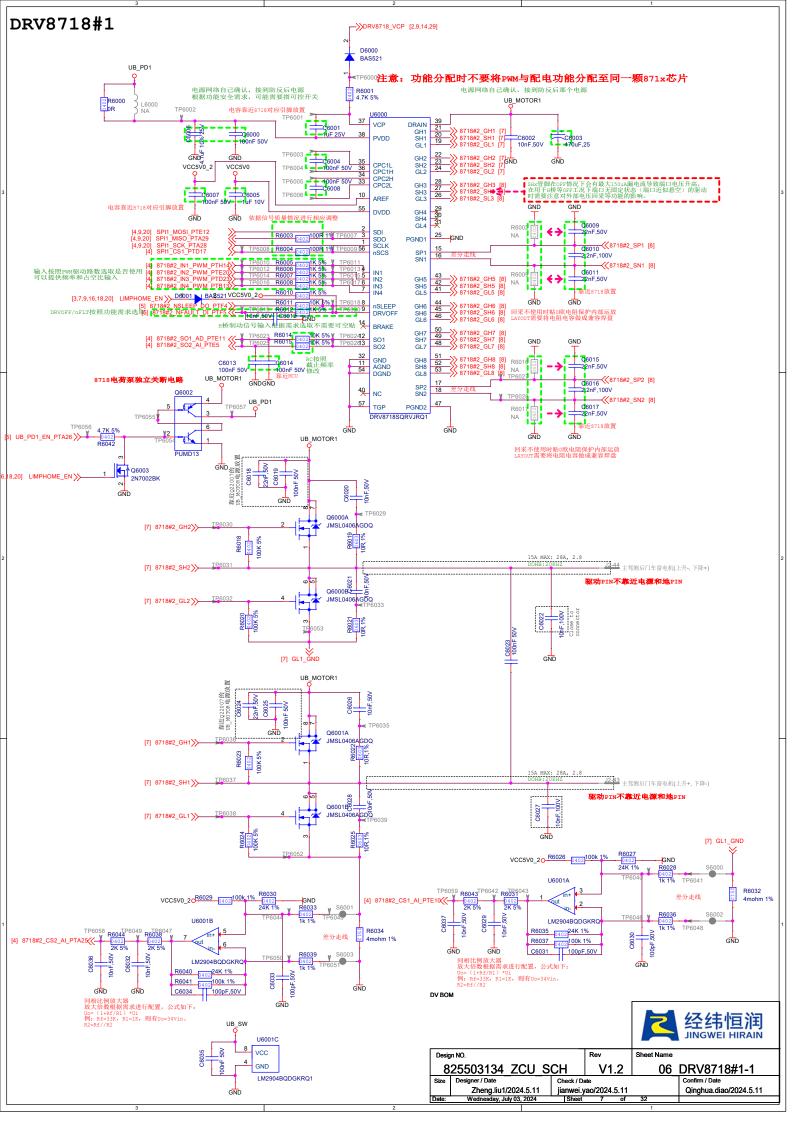


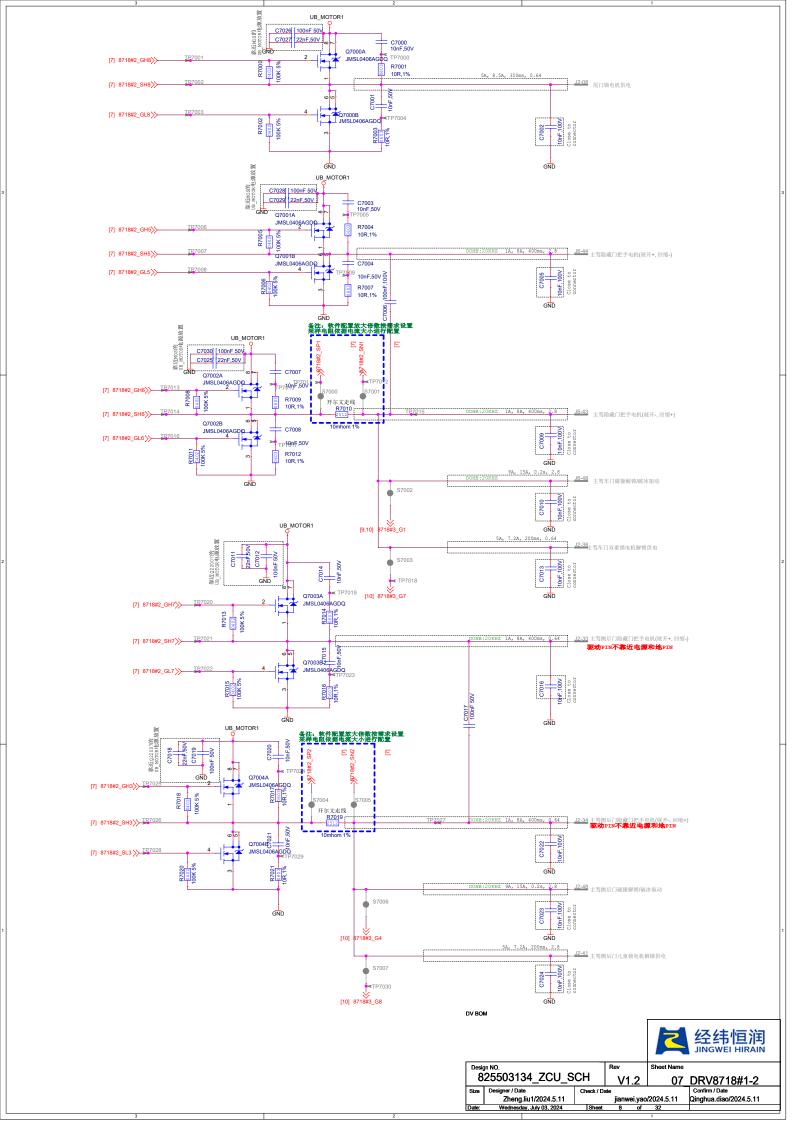


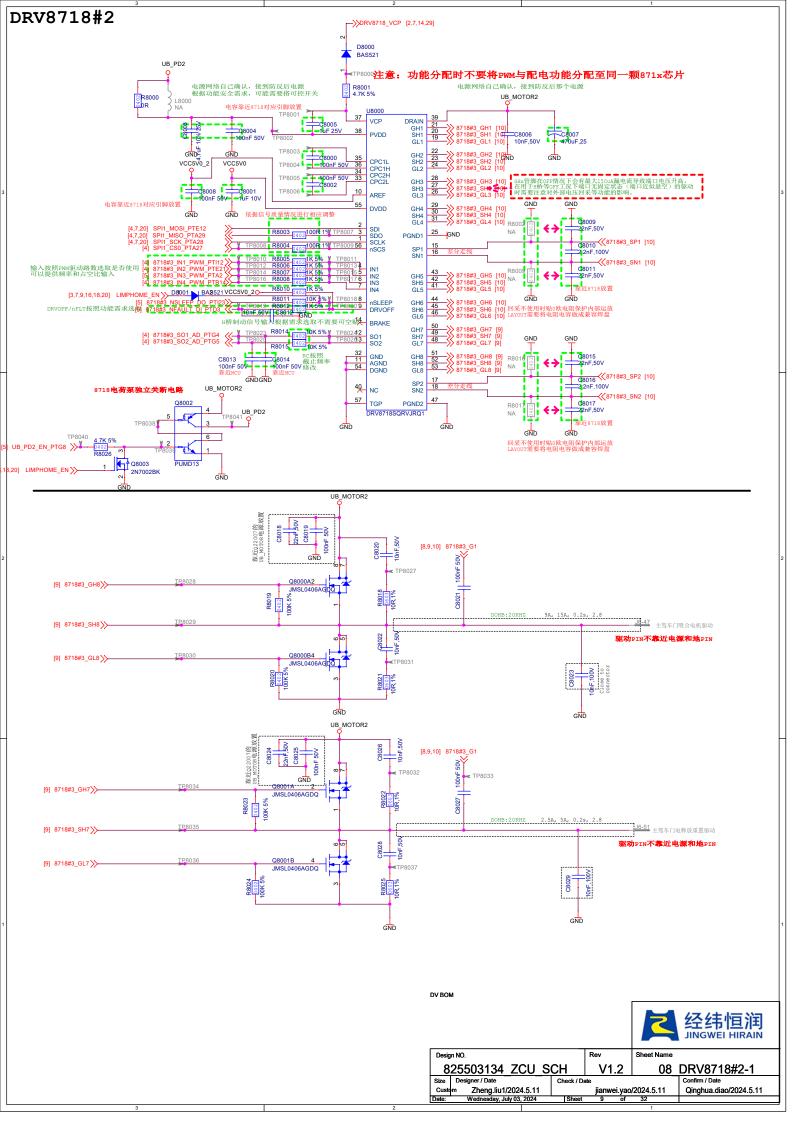
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Date:	Monday, June 17, 2024	Sheet	5 of	32	

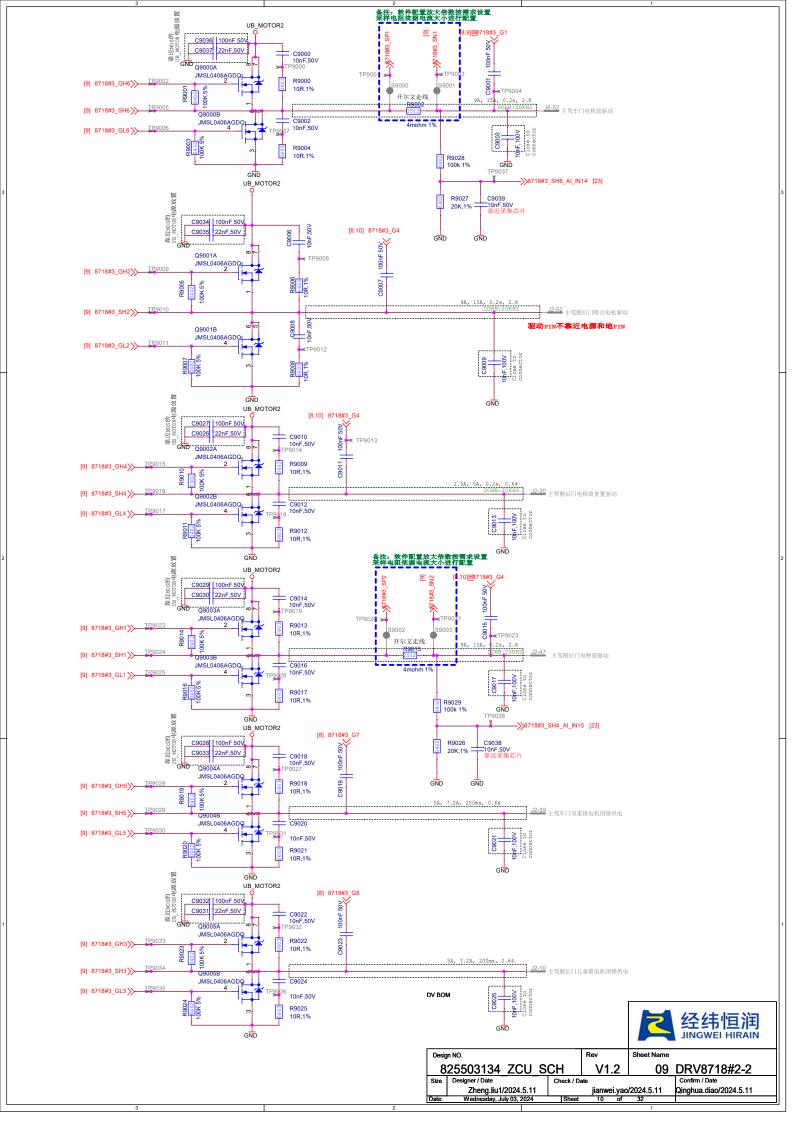
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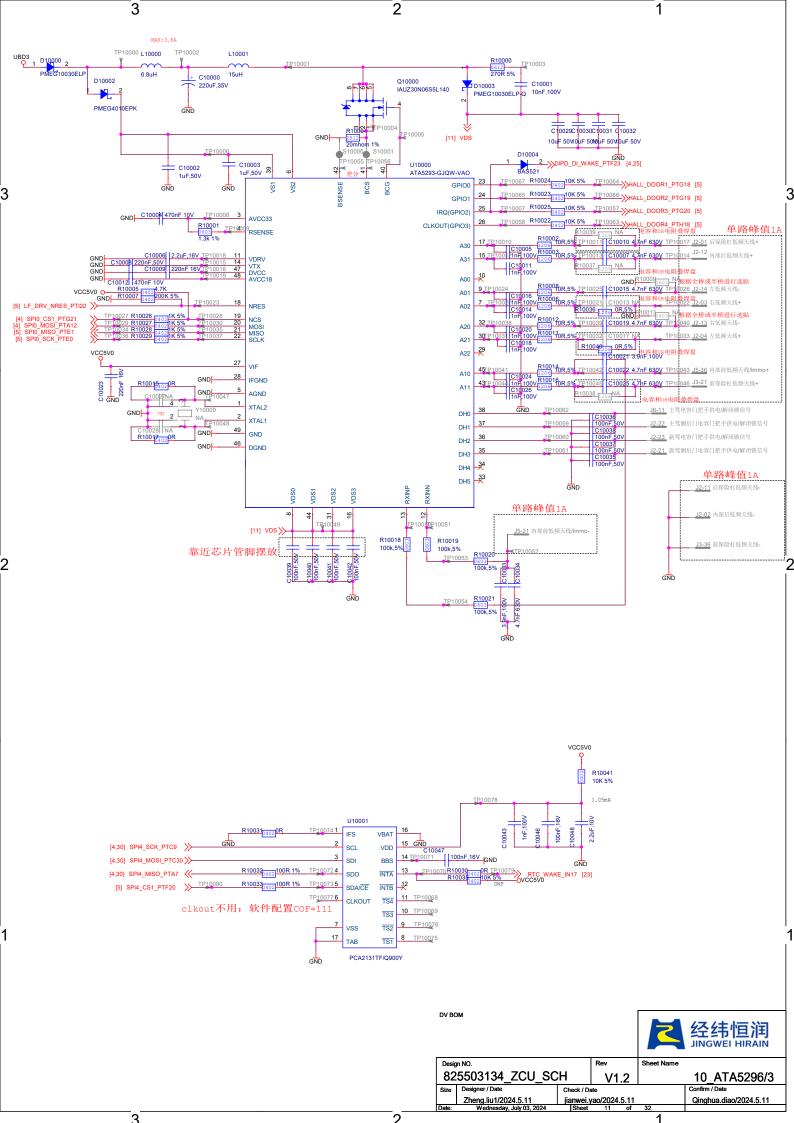


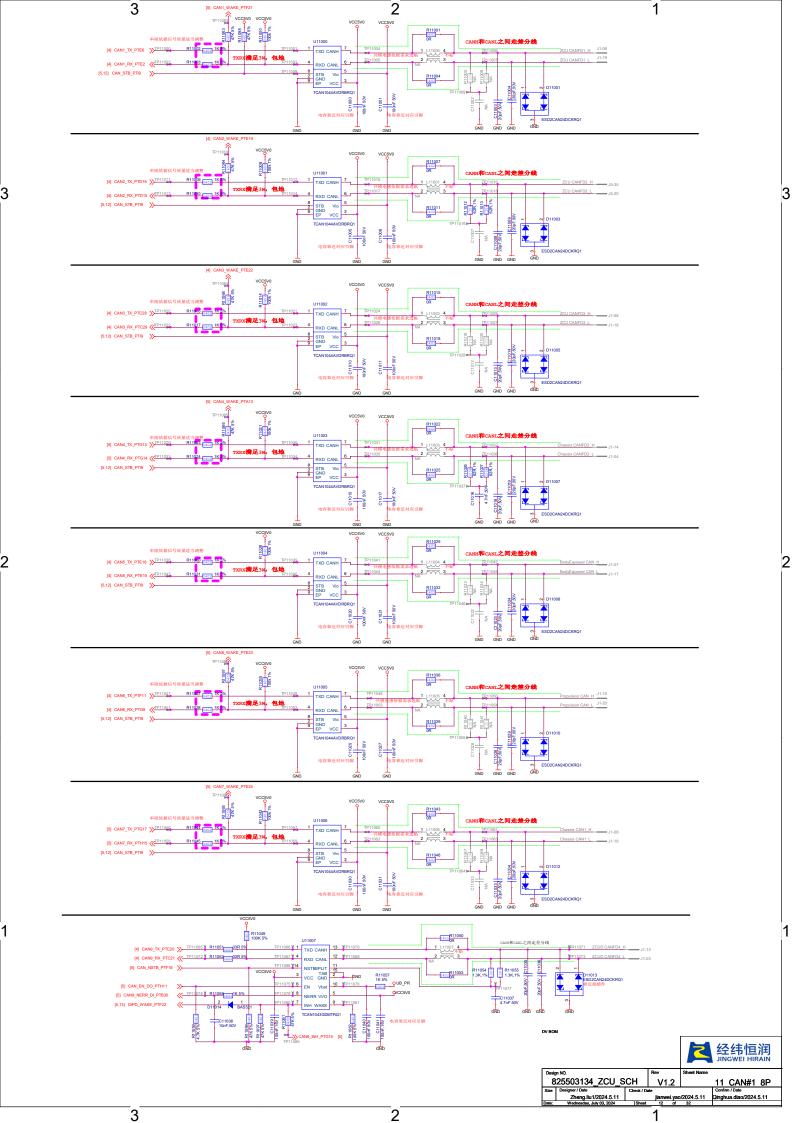


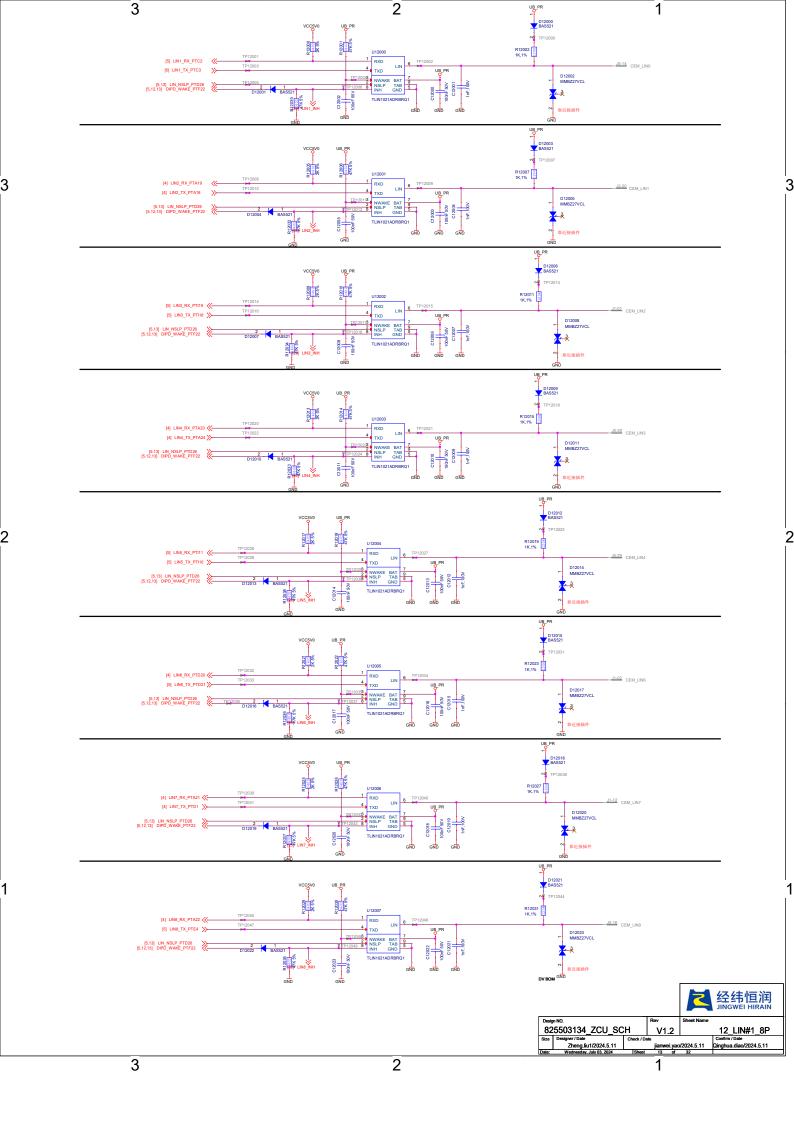


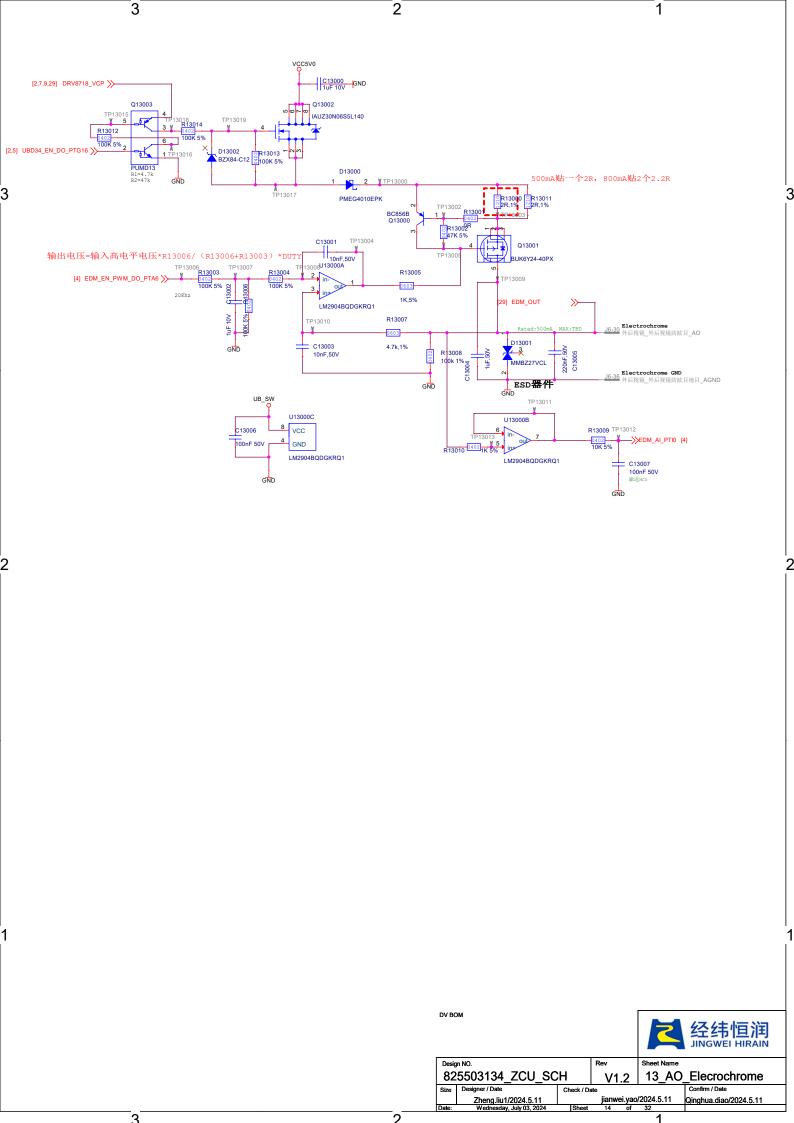


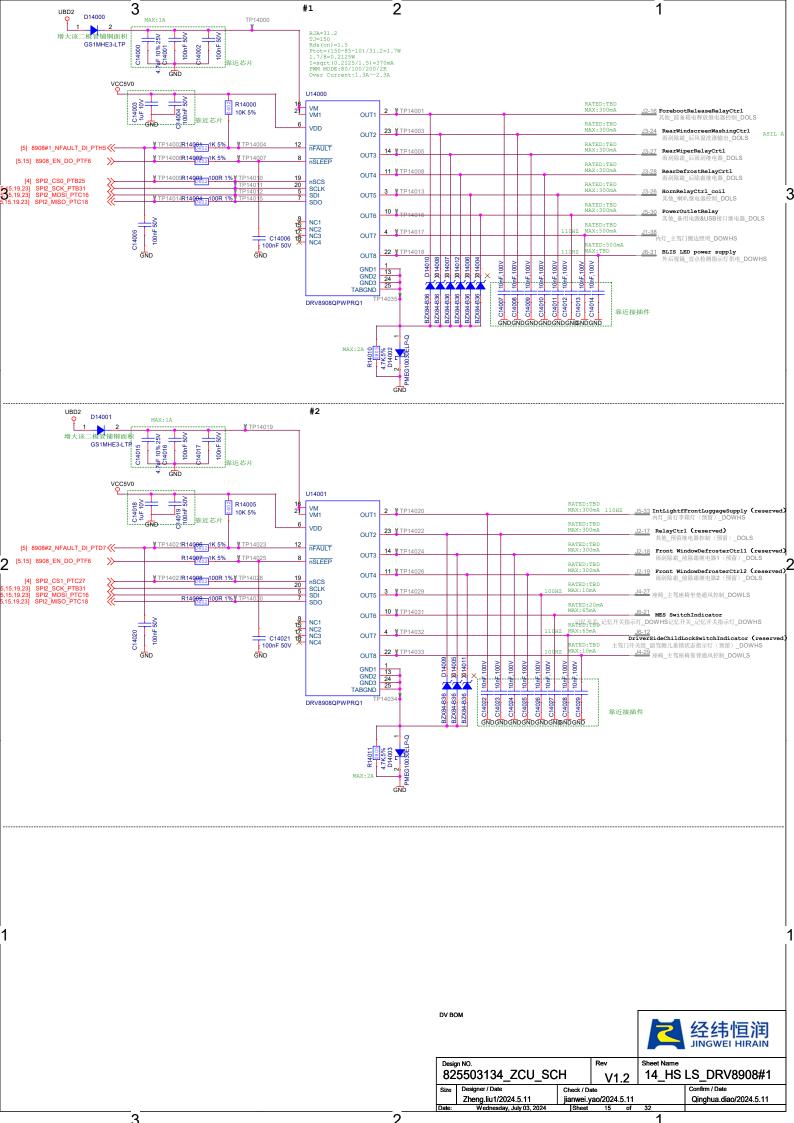


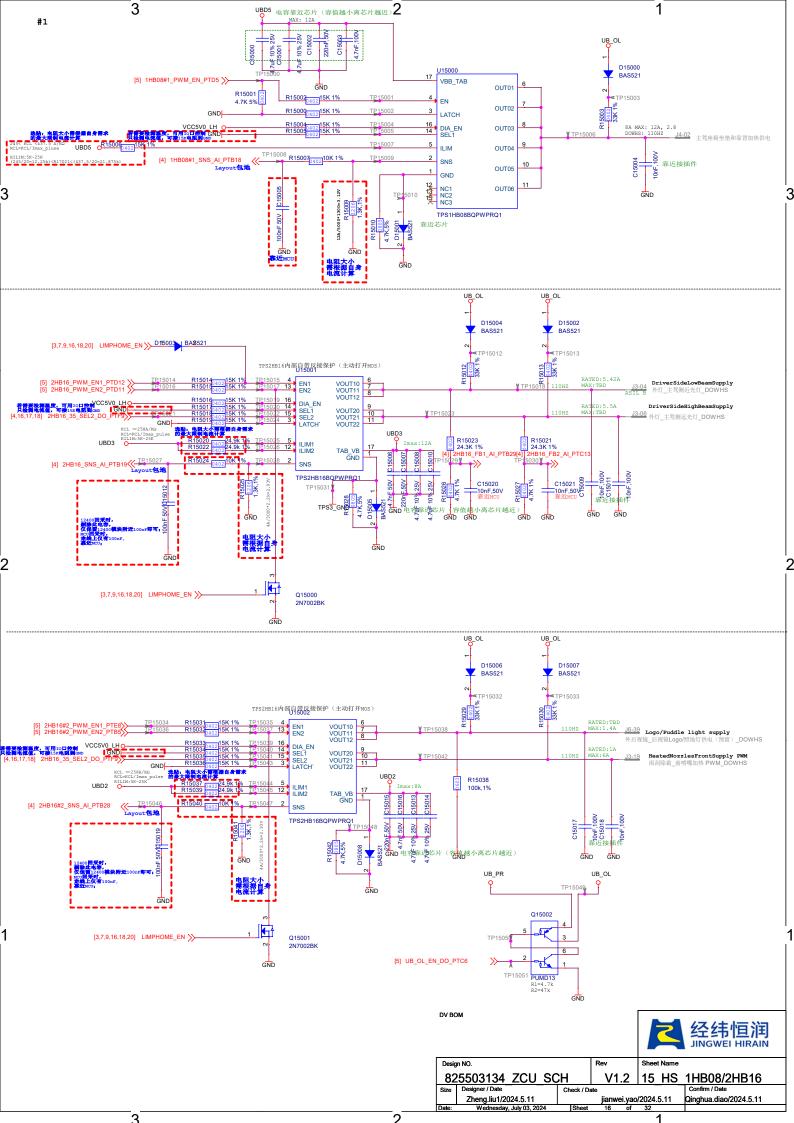


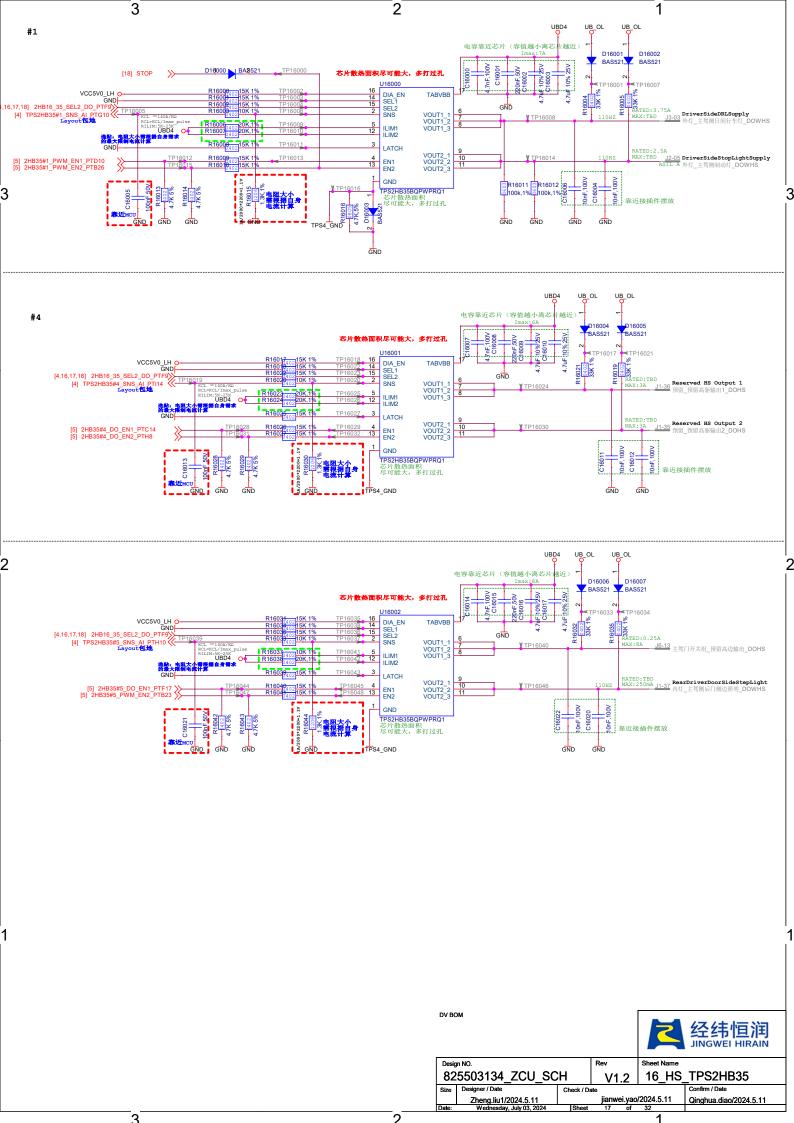


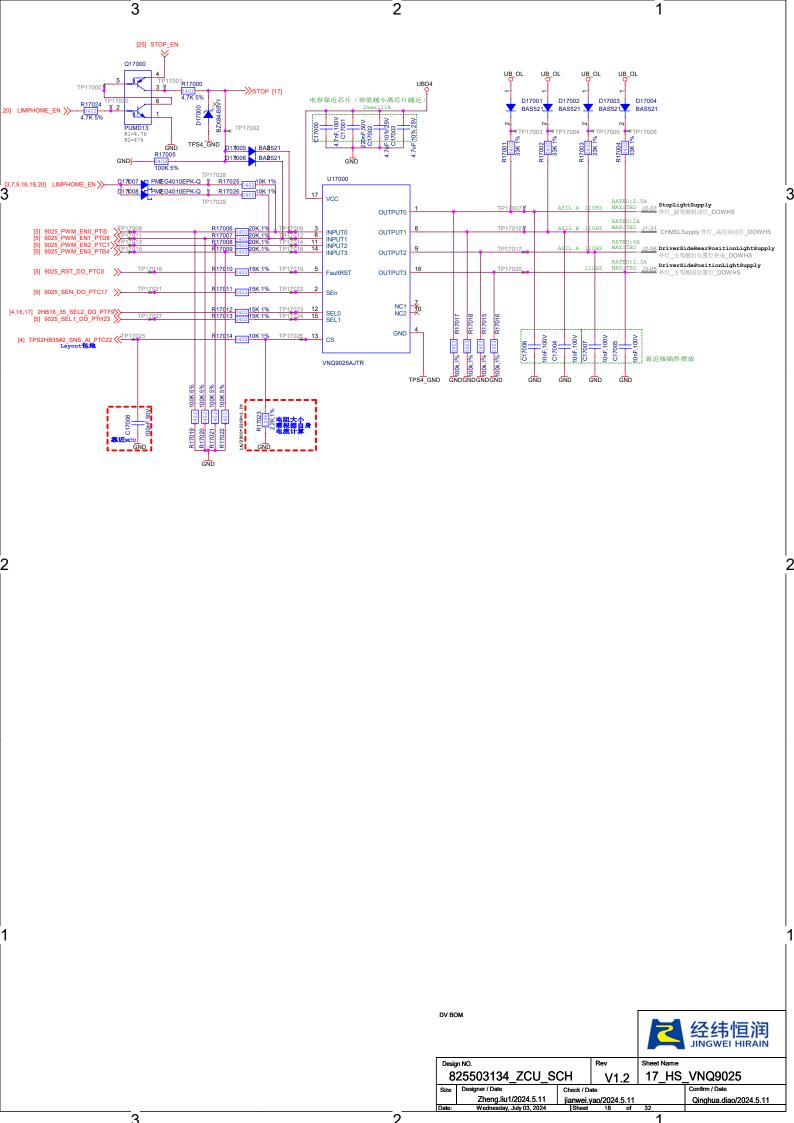


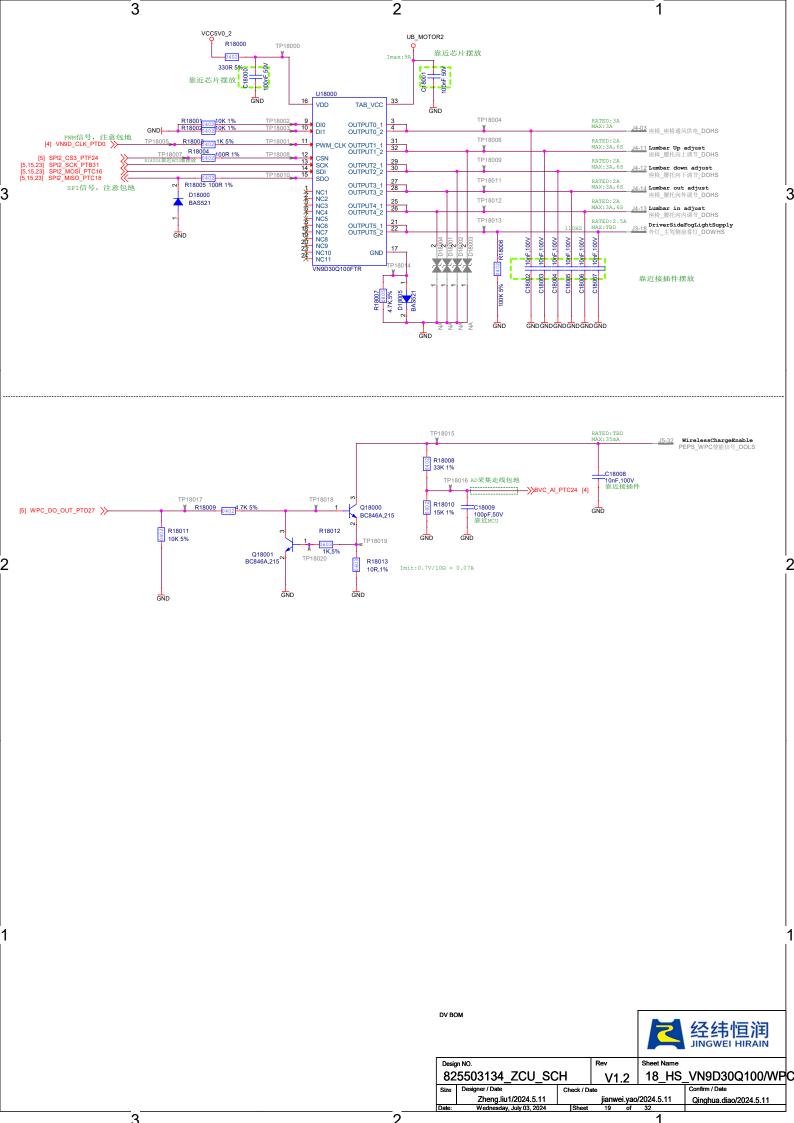


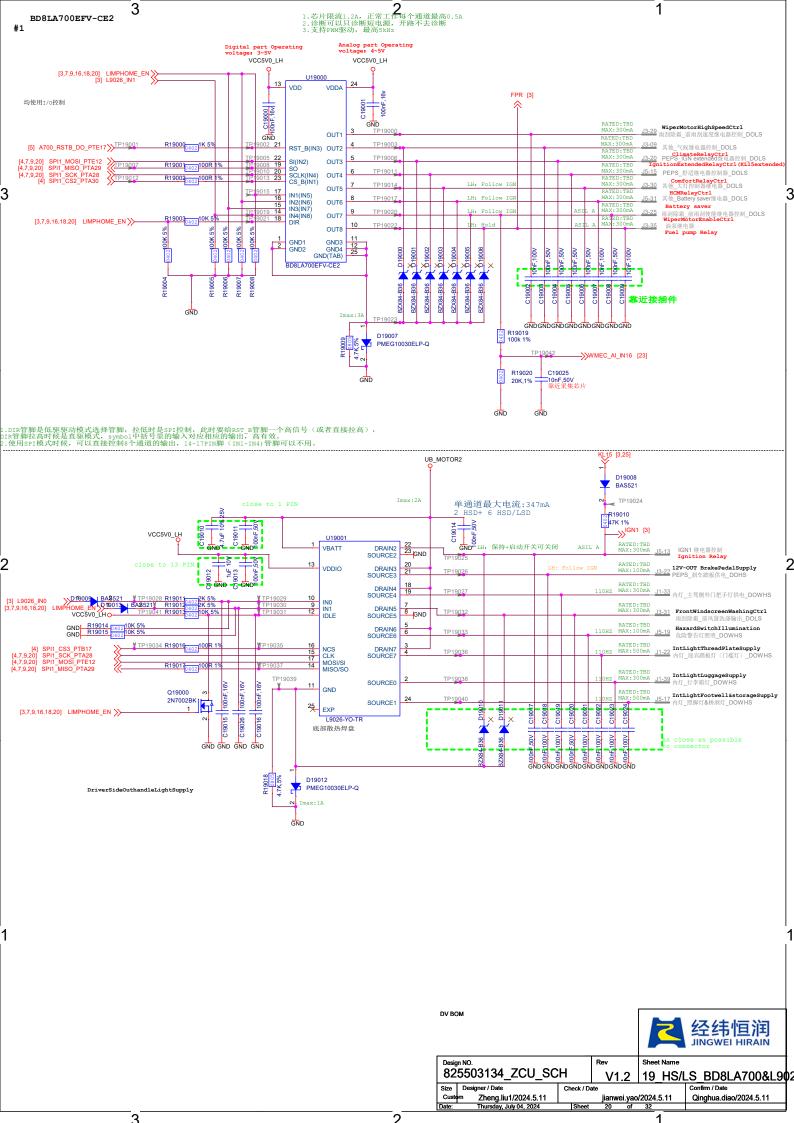


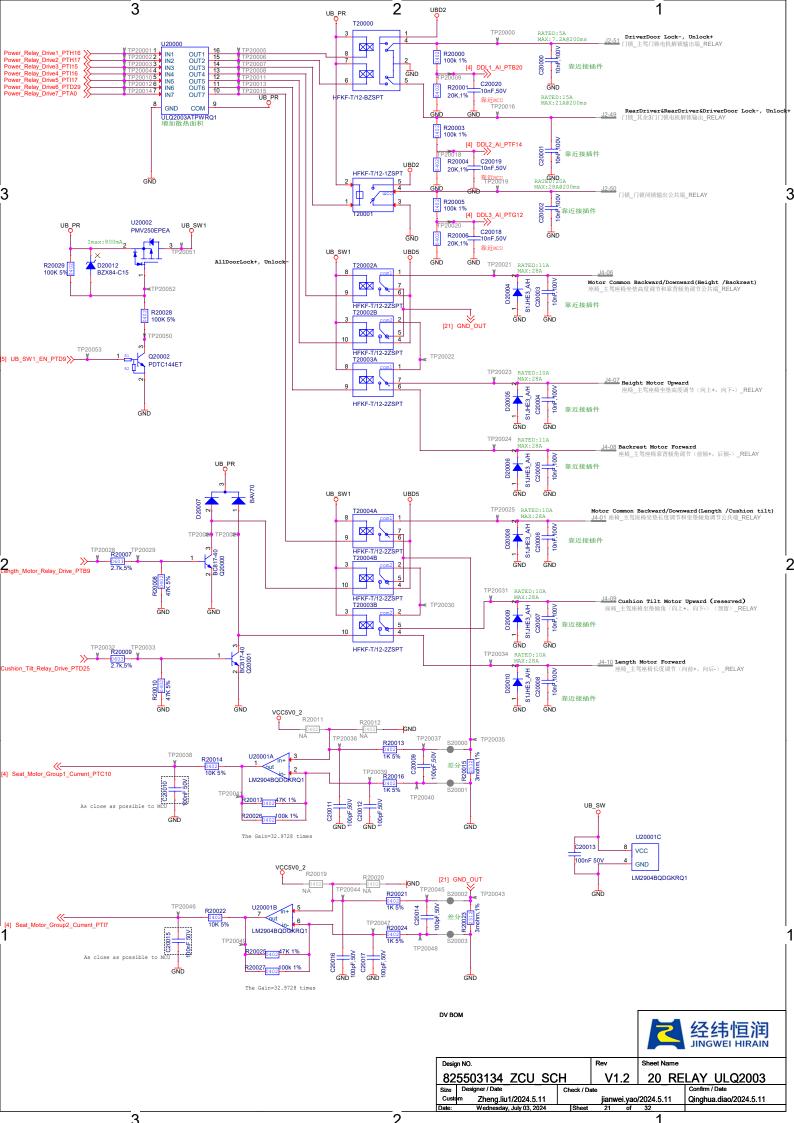


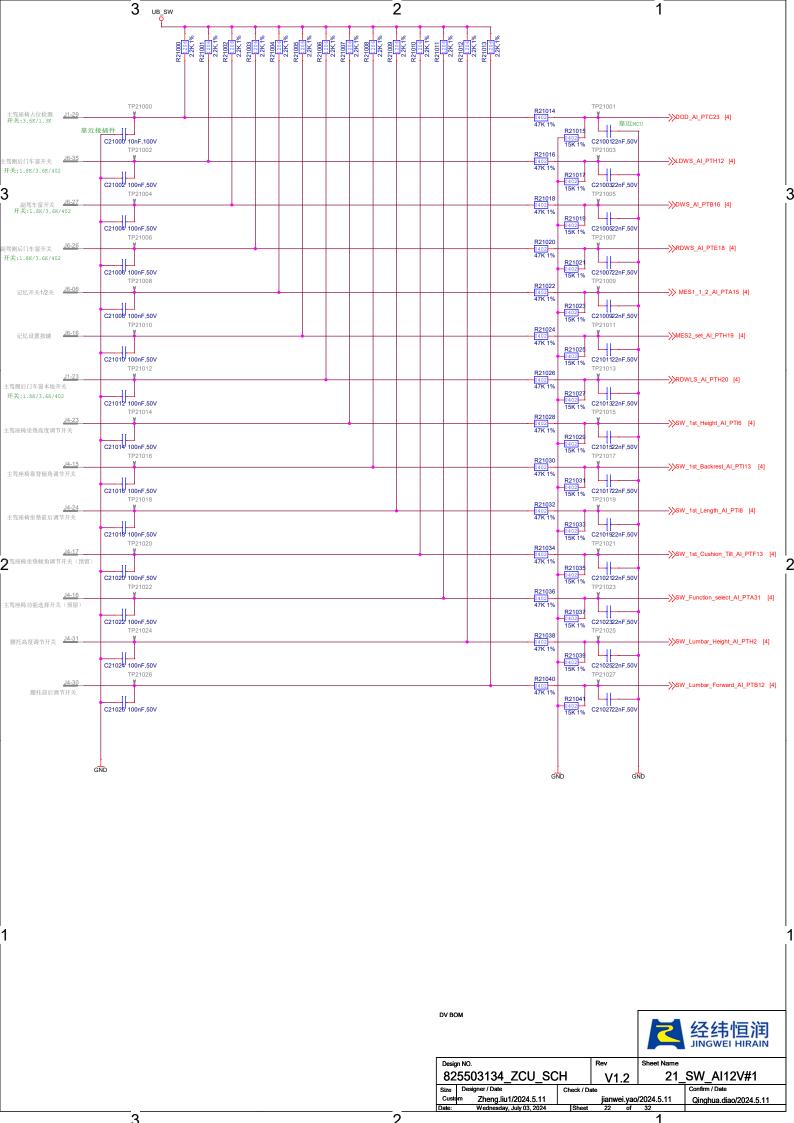


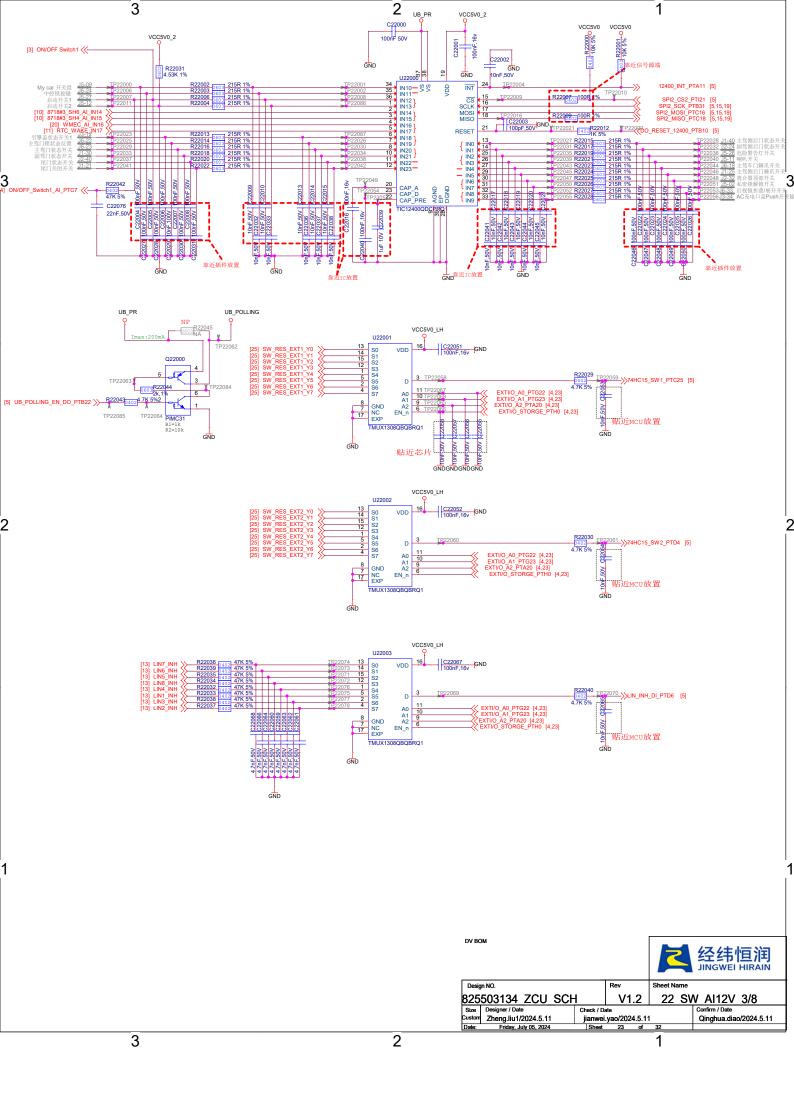


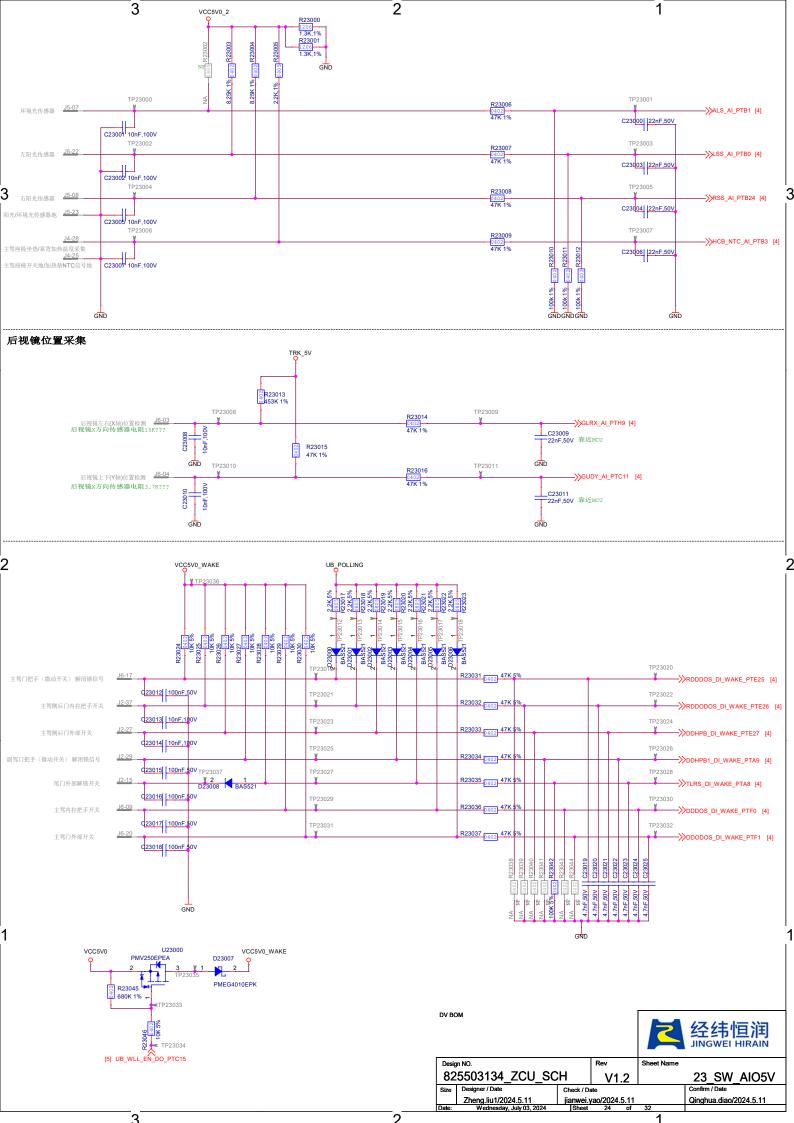


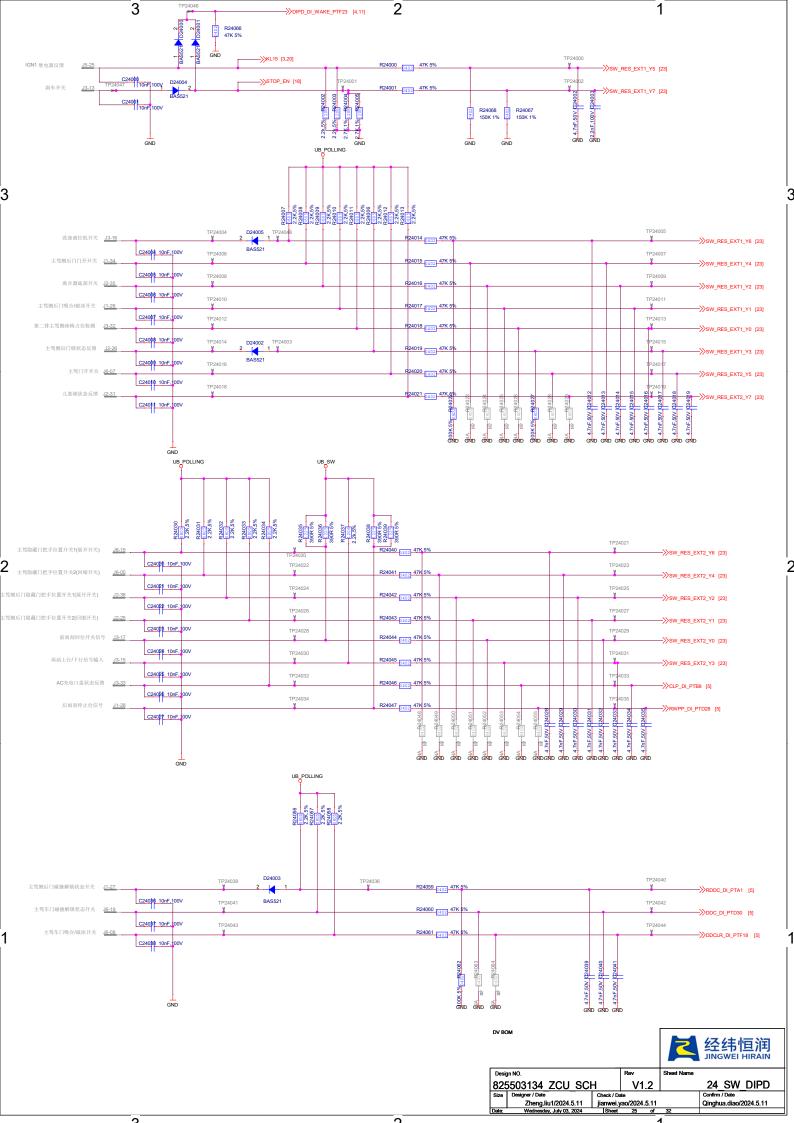


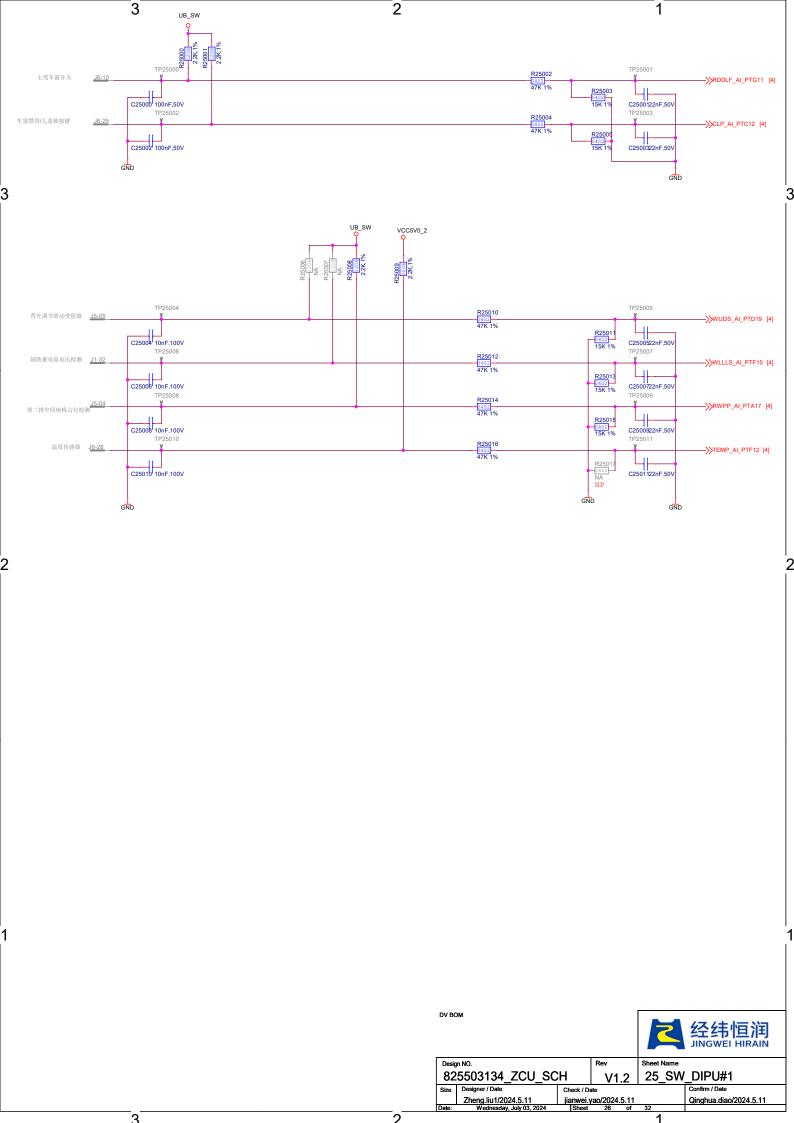


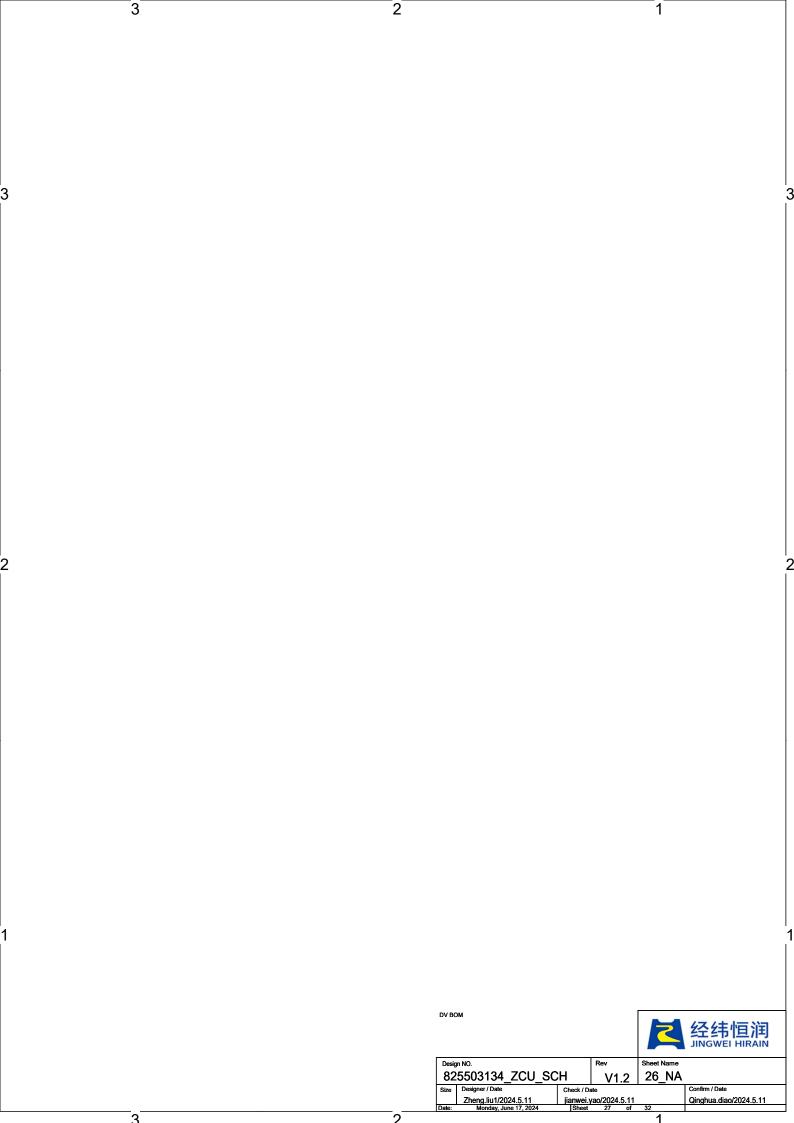


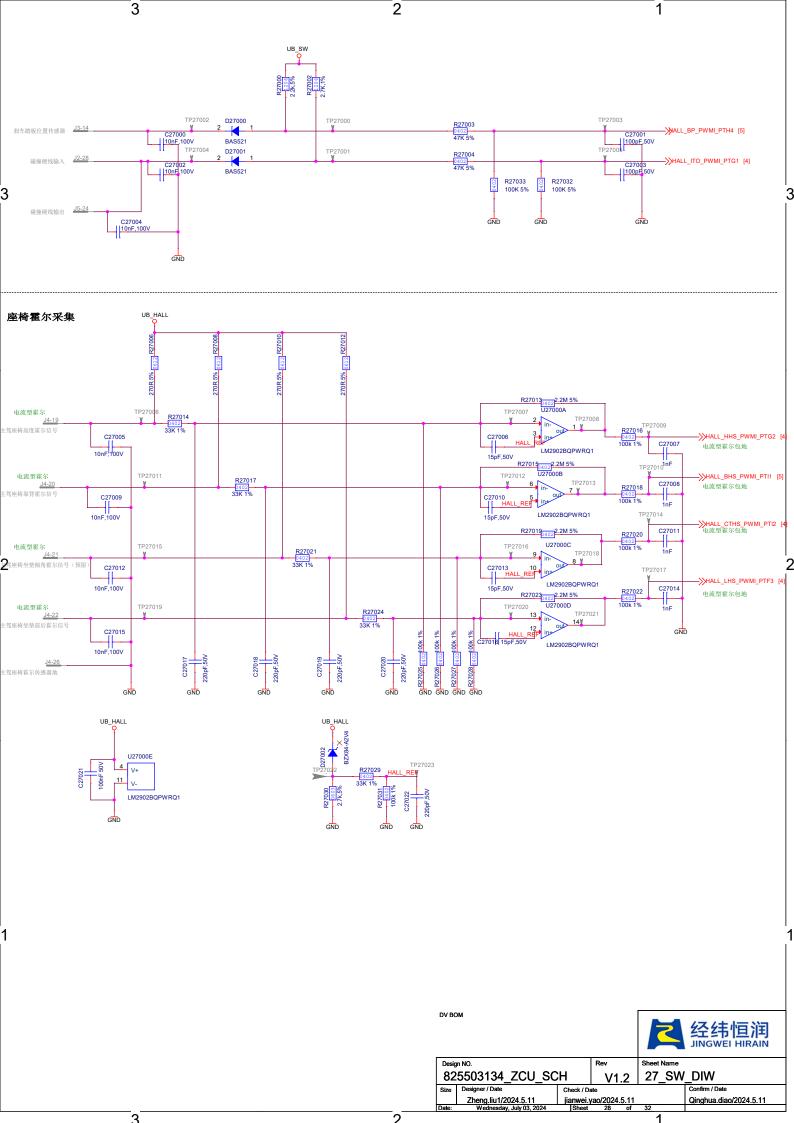


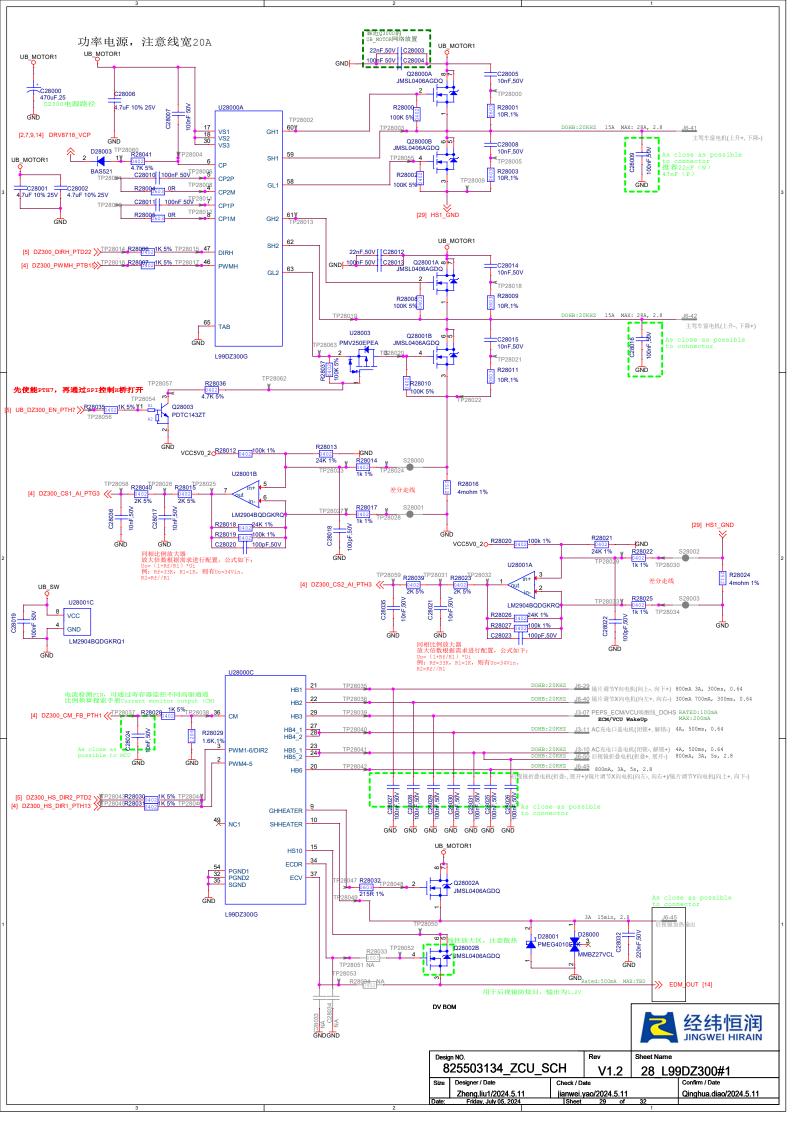


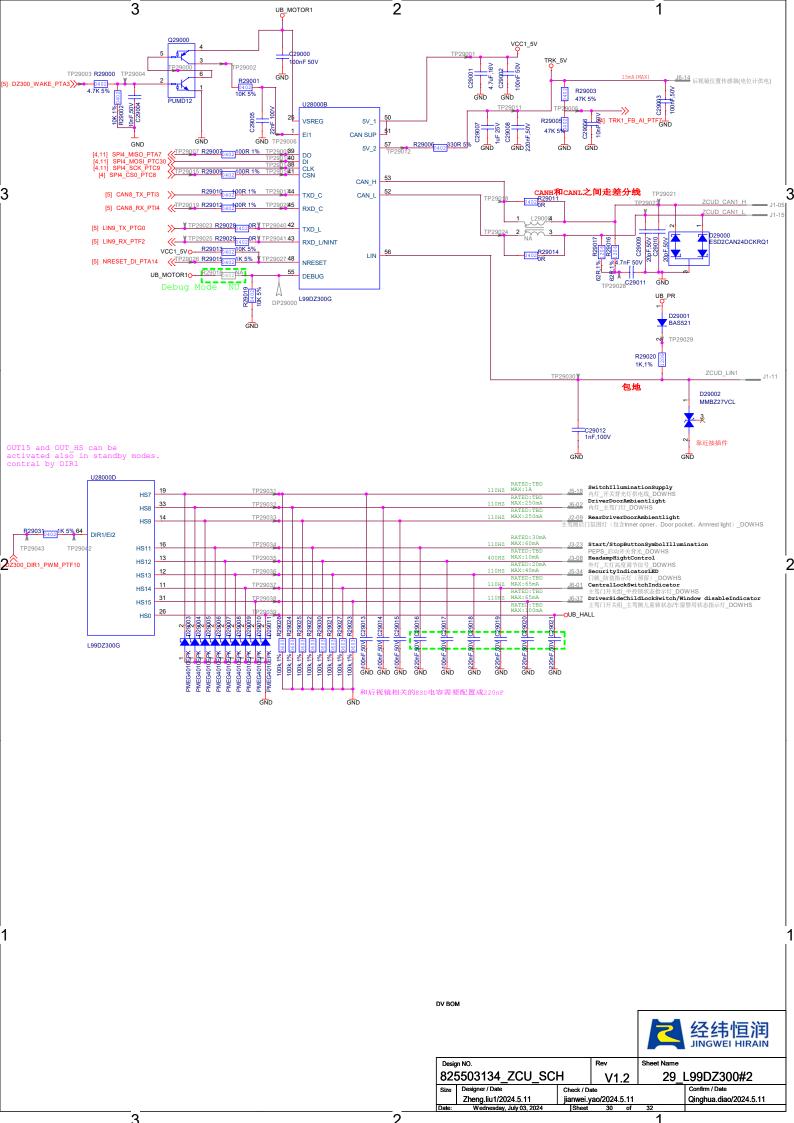












Revision History:				
Date Author	Description	SCH Version	PCB Version	PCBA Version
2023-11-10 zheng.liu1	初版	V1.0	V1.0	V1000A
2024-01-11 zheng.liu1	1、修改UBD1-UBD5接插件顺序与ICD统一 2、修改逻辑电防反二极管为肖特基二极管 3、修改MIC SW3管脚供电为VCC5V0同时增加1K电感跳阻 4、更换UB SW开关管为更大过流能力的PIMC31 5、删除UBD1、2、5的TVS同时更换UBD3、4的TVS为SMB 6PMIC的CS增加上拉 7、完善LIMPHOME功能电路增加LDO可控及电源合并电路等 8、增加RTC功能电路(晶振电路) 9、修改后门车窗电流采样为运放采集 10、依据供应商要求完善ATA529x芯片外围电路并增加门把手采集功能 11、更换CAN芯片为小封装器件优化CAN唤醒电路 12、更换LIN上拉电阻为高功率电阻 13、额外并联一颗自搭防炫目限流电阻 14、8908防反二极管跟换为小封装二极管 15、增加9D300100上500二极管及输出续流更换为TVS并增加地防反 16、简化BD8LA700地防反电路 17、更新继电器型号、增加门锁电压回采电路、完善电流回采电路 18、增加12400电路用于唤醒功能替换74HC151 19、删除VCC5V0 SW开关电路 20、依据供应商要求更新D2300上的ESD电容容值 21、更新车窗电流采样偏置下拉电阻阻值	V1.1	V1.1	V1122A
2024-05-11 zheng.liu1	1、年窗驱动增加独立关断电路 2、主驾、主驾后门车门电释放增加独立回采及关断电路 3、座椅控制增加独立关断电路 4、雨刮使能维电器加回采 5、前风窗洗涤桶出与雨刮使能放在不同芯片上 6、NV9D300100需要独立的PMM输入信号: FTU7 3→FTU4 2 7、TPS1/2BB芯片D1A EN管脚VCC5V0更换为非常电VCC5V0_LH 8、删除一个12400上INT多余10口 9、8718的AERF、DRVOFF管脚修改为VCC5V0_2非常电 10、2904桶置快电更新为非常电 11、低频天线的NRES下范电阻阻值更新为200K 12、1043与1044的5TB管脚单独分配 13、自挤防按目增加供电可控开关 14、VCC5V0 MAREX控制电路更换为PMOS结构 15、19026输出管脚上拉更换为非常电 16、D2300的Nreset更换为5V1上拉 17、CAN、LIN、IO拓展、LDO、TVS更换为TI器件 18、锁存器更换为872003800 19、电流HALL采上拉电阻更新为1颗 20、8908防反二极管更换为802615089 21、增加外邻RFC 2、车窗纹波电机电流回采增加二极滤波 23、自挤防发目电路夹控制电路中阻阻值 24、低驱钳位管更换为801300560 25、MCU晶振更换晶振为40N晶振 66、E级物料更换: 801200320更换为1sp 0805 50V(A) 801200340更换为1sp 0805 50V(A) 801201940更换为3np 1206 100V(C) 80120120更换为3np 1206 100V(C) 80120120更换为1nF 0402 50V(A) 80120120更换为1nF 0402 50V(A) 80120240更换为1nF 0402 50V(C) 80120120更换为3np 20 100 (C) 801300190更换为3sp 1 266 630V(C) 801300190更换为38c 12 (C) 802301530更换为30R 2512 (C) 802301530更换为30R 2512 (C) 802301530更换为30R 2512 (C) 802101741更换为BAS521 (C) 802610741更换为JAM2903BWD(C) 802610741更换为LM2903BWD(C) 802610741更换为MEGAOID(C) 8026107412026年MEGAOID(MEGAOIDA)	V1.2	V1.2	V1200A

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