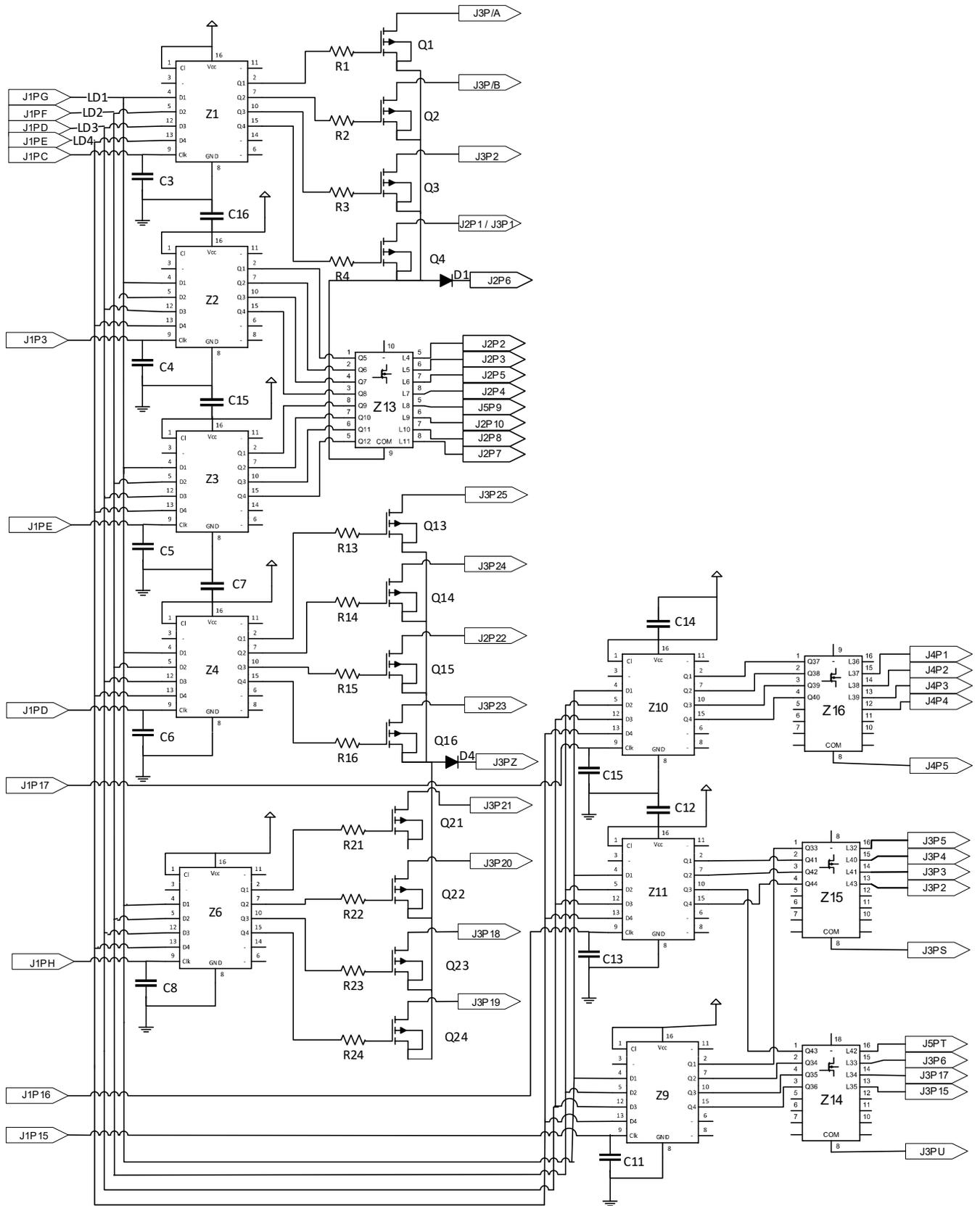


The Ni-Wumpf System 80 Driver Board

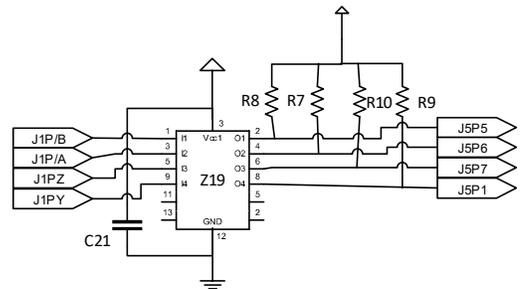
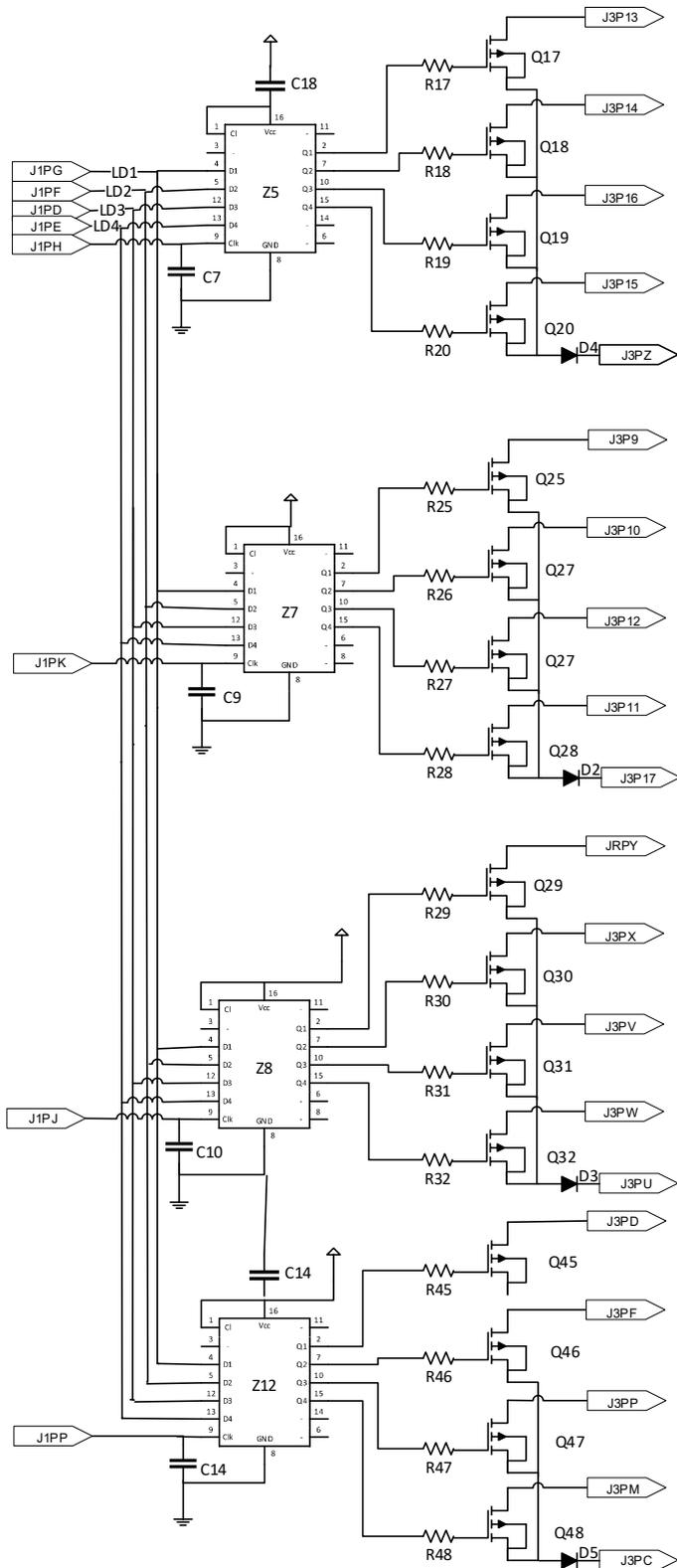
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Revision A

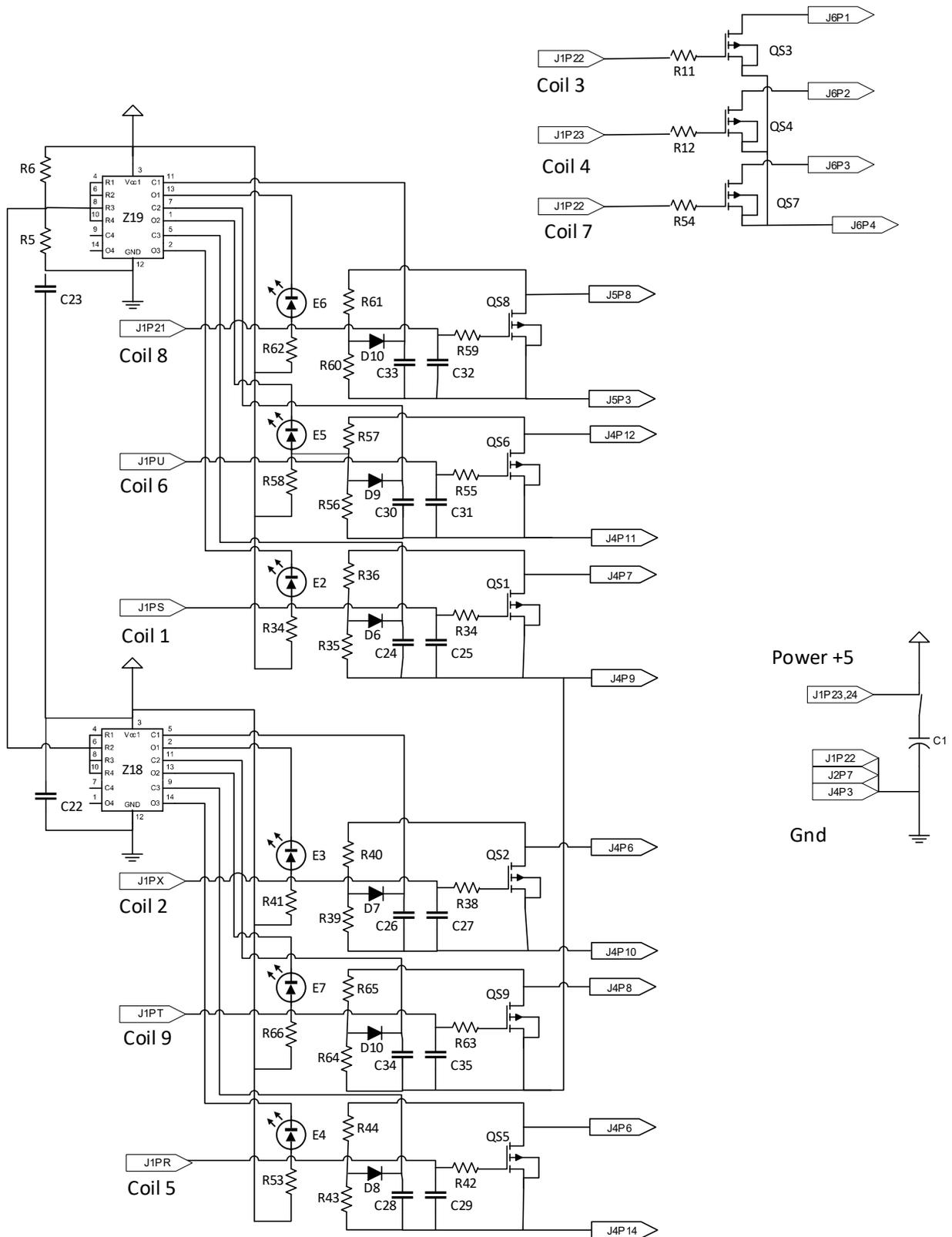
**Schematic supplement for the
Ni-Wumpf System 80 Driver Board**



Schematics – Ni-Wumpf System 80 Driver Board - Lamps



Schematics – Ni-Wumpf System 80 Driver Board – Lamps / Sounds



Schematics Ni-Wumpf System 80 Driver Board - Coils

Designator	Qty	Description
C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35	33	0.1uF,50V, 10%,X7R,0603
C1	1	100uF,25V,20%, SMD Electrolytic Capacitor
R1 R2 R3 R4 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R45 R46 R47 R50 R51 R52 R54 R50 R51 R52 R54 R48 R49	35	1K ohm,1%,100mW,0603
R35 R39 R43 R56 R60 R64	6	1M ohm,1%,100mW,0603
R37 R41 R42 R53 R58 R62 R66 R34 R38 R55 R59 R63	12	2.2K ohm,1%,100mW,0603
R5 R6	2	3.3K ohm,1%,100mW,0603
R7 R8 R9 R10	4	2.7K ohm,1%,100mW,0603
R36 R40 R44 R57 R61 R65	6	4.7M ohm,1%,100mW,0603
Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8 Z9 Z10 Z11 Z12	12	CD74HCT175, SOIC16
Q1 Q2 Q3 Q4 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q27 Q28 Q29 Q30 Q31 Q32 Q45 Q46 Q47	35	DMN6025S, 60V, 3A MOSFETs, SOT-23
E2 E3 E4 E5 E6 E7	6	KT-0603R, 2.4v LED, 0603
Z18 Z19	2	LM339, CMOS, TSSOP-14
Z17	1	74LV06, TSSOP-14
QS1 QS2 QS5 QS6 QS8 QS9	6	PSMN015-60BS-VB, N-Channel, 60V 75A
D1 D2 D3 D4 D5	5	SL1G / 1N4007W, SOD-123
D6 D7 D8 D9 D10 D11	6	1SS04, SOD-123
Z14 Z15 Z16	3	ULN2003, Darlington transistor array, TSSOP16
Z13	1	ULN2803G, Darlington transistor array, SOP-18

Table 1 – Bill of Materials for the Ni-Wumpf Driver Board