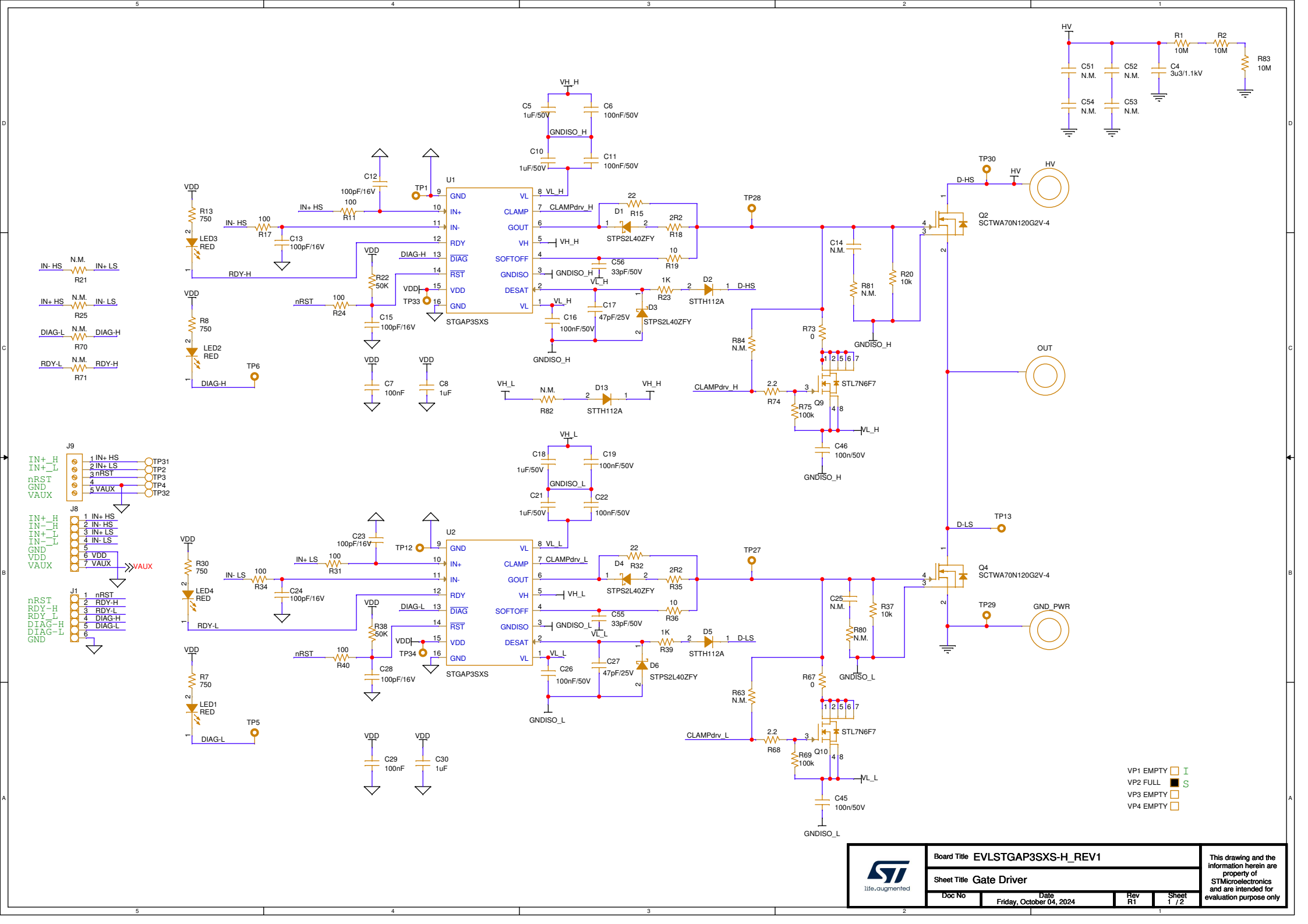
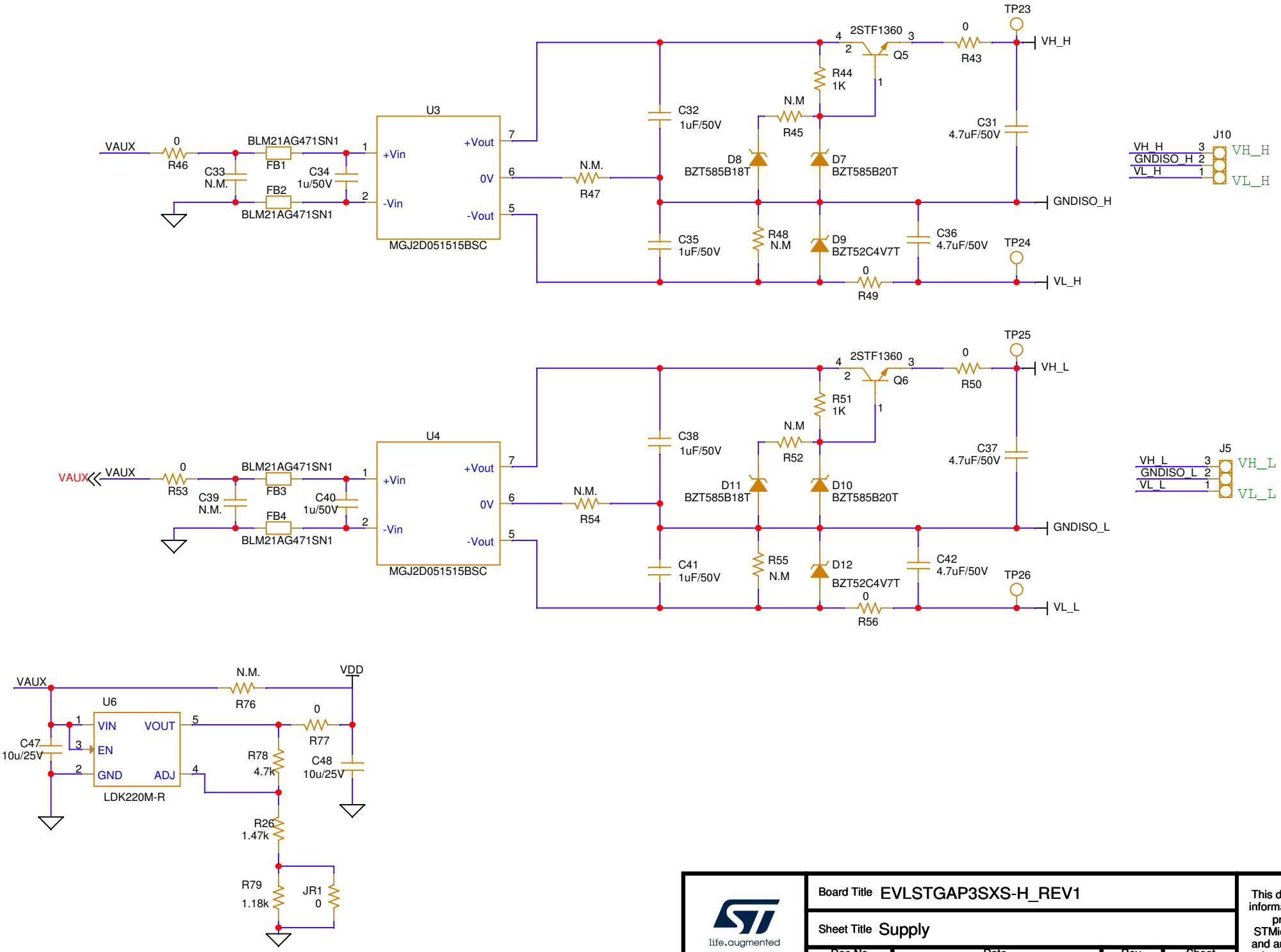

HV
C51 N.M.
C52 N.M.
C4 3u3/1.1kV
C54 N.M.
C53 N.M.
R1 10M
R2 10M
R83 10M
VH_H
C5 1uF/50V
C6 100nF/50V
GNDISO_H
C10 1uF/50V
C11 100nF/50V
U1
GND
IN+
IN-
RDY
DIAG
RST
VDD
GND
VL
CLAMP
GOUT
VH
SOFTOFF
GNDISO
DESAT
VL
STGAP3SXS
VDD
R13 750
LED3 RED
RDY-H
IN+ HS
R11 100
IN- HS
R17 100
C13 100pF/16V
C12 100pF/16V
TP1
DIAG-H
R22 50K
nRST
R24 100
C15 100pF/16V
TP33
R8 750
LED2 RED
DIAG-H
TP6
C7 100nF
C8 1uF
VH_L
R82 N.M.
D13 STTH112A
VH_H
CLAMPdrv_H
D1 STPS2L40ZFY
R15 22
2R2 R18
R19 10
C56 33pF/50V
D2 STTH112A
R23 1K
D3 STPS2L40ZFY
C17 47pF/25V
C16 100nF/50V
TP28
TP30
D-HS
HV
Q2 SCTWA70N120G2V-4
C14 N.M.
R81 N.M.
R20 10k
R73 0
R84 N.M.
R74 2.2
R75 100k
Q9 STL7N6F7
C46 100n/50V
OUT
GNDISO_H
VL_H
IN+_H
IN+_L
nRST
GND
VAUX
J9
IN+ HS
IN+ LS
nRST
VAUX
TP31
TP2
TP3
TP4
TP32
J8
IN- HS
IN- LS
VDD
VAUX
J1
nRST
RDY-H
RDY-L
DIAG-H
DIAG-L
IN- HS N.M. IN+ LS R21
IN+ HS N.M. IN- LS R25
DIAG-L N.M. DIAG-H R70
RDY-L N.M. RDY-H R71
VH_L
C18 1uF/50V
C19 100nF/50V
GNDISO_L
C21 1uF/50V
C22 100nF/50V
U2
CLAMPdrv_L
D4 STPS2L40ZFY
R32 22
2R2 R35
R36 10
C55 33pF/50V
D5 STTH112A
R39 1K
D6 STPS2L40ZFY
C27 47pF/25V
C26 100nF/50V
TP27
TP13
D-LS
Q4 SCTWA70N120G2V-4
C25 N.M.
R80 N.M.
R37 10k
R67 0
R63 N.M.
R68 2.2
R69 100k
Q10 STL7N6F7
C45 100n/50V
TP29
GND_PWR
GNDISO_L
VL_L
VDD
R30 750
LED4 RED
RDY-L
IN- LS
R34 100
IN+ LS
R31 100
C24 100pF/16V
C23 100pF/16V
TP12
DIAG-L
R38 50K
nRST
R40 100
C28 100pF/16V
TP34
R7 750
LED1 RED
DIAG-L
TP5
C29 100nF
C30 1uF
VP1 EMPTY
VP2 FULL
VP3 EMPTY
VP4 EMPTY
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Board Title EVLSTGAP3SXS-H_REV1
Sheet Title Gate Driver
Doc No
Date Friday, October 04, 2024
Rev R1
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