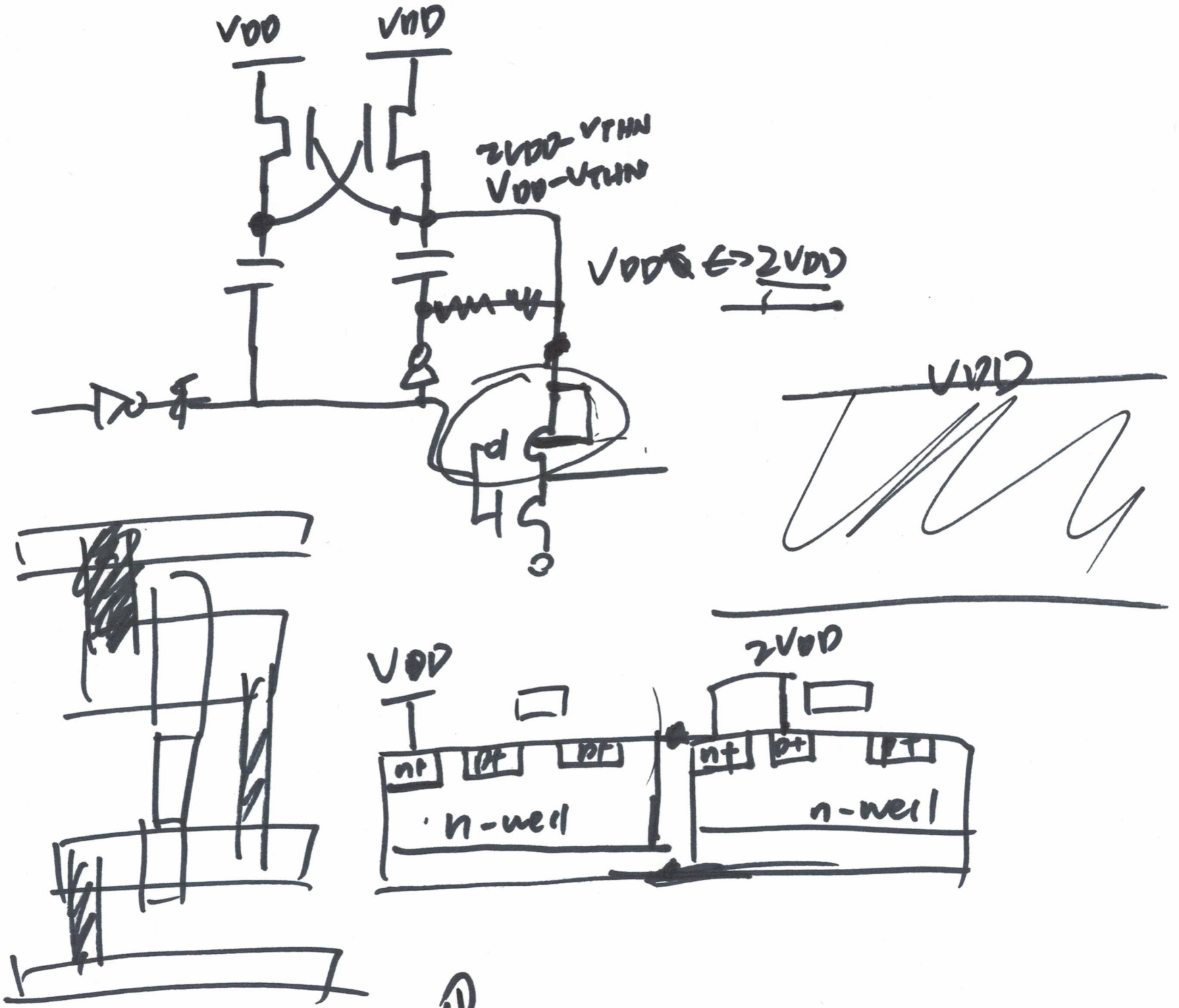
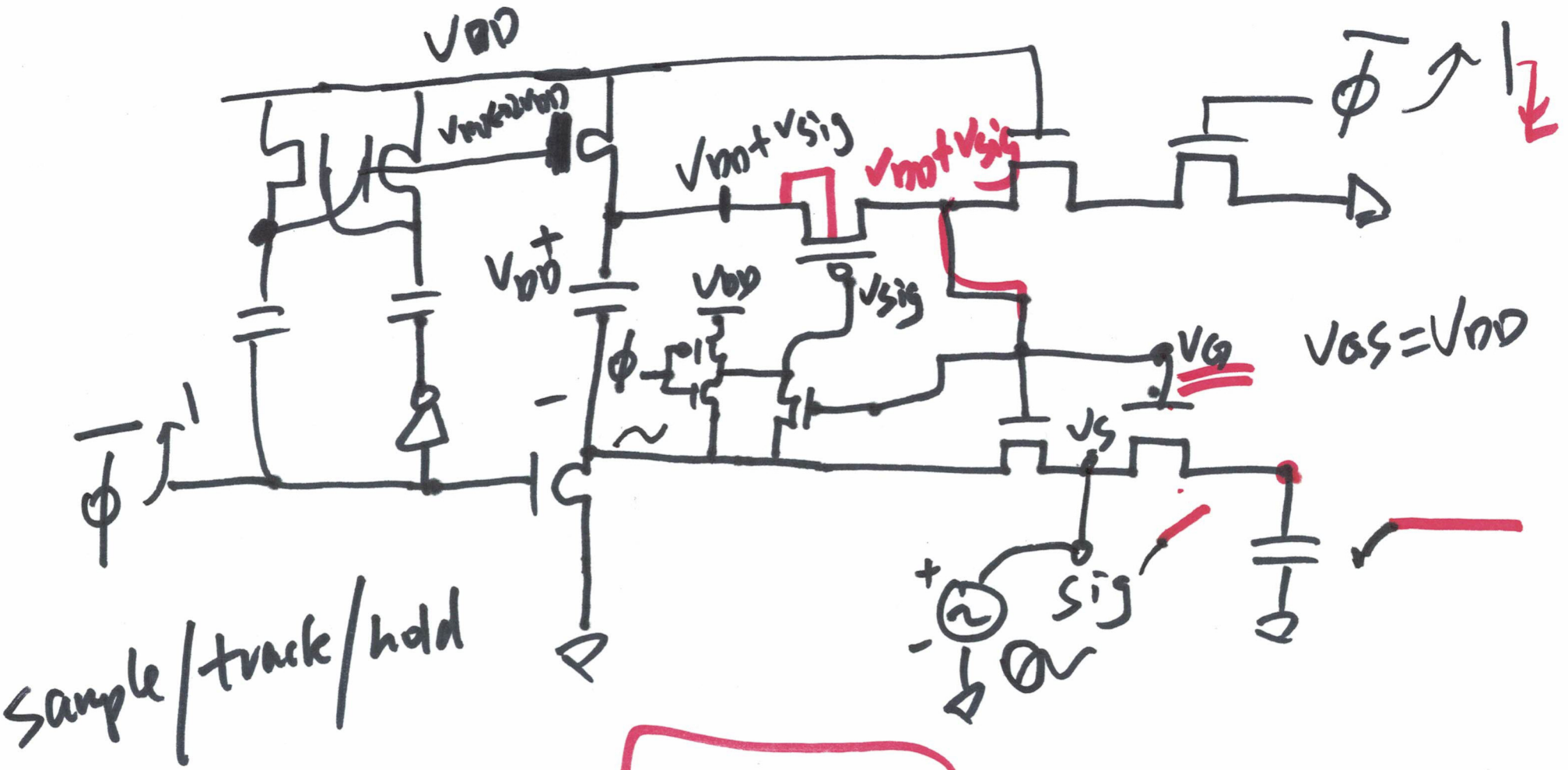

VDD
VHD
2VDD-VTHN
VDD-VTHN
VDD
2VDD
VHD
VDD
2VDD
n+
p+
p+
n+
p+
p+
n-well
n-well



$V_G = V_{DD} + V_{sig}$

$V_S = V_{sig}$

$V_{GS} = V_{DD} + V_{sig} - V_{sig} = V_{DD}$

DAC

Digital Input	voltage output	Ideal output
0 0 0	0	0
0 0 1	0.625	0.625
0 1 0	1.5625	1.25
0 1 1	2.0	1.875
1 0 0	2.5	2.5
1 0 1	3.125	3.125
1 1 0	3.4375	3.75
1 1 1	4.375	4.375

$$DNL_2 = \frac{(1.5625 - 0.625)\,V}{0.625\ V/LSB} - 1\,LSB = ____$$

$$DNL_3 = \frac{2.0 - 1.5625}{0.625} - 1\,LSB = ____$$