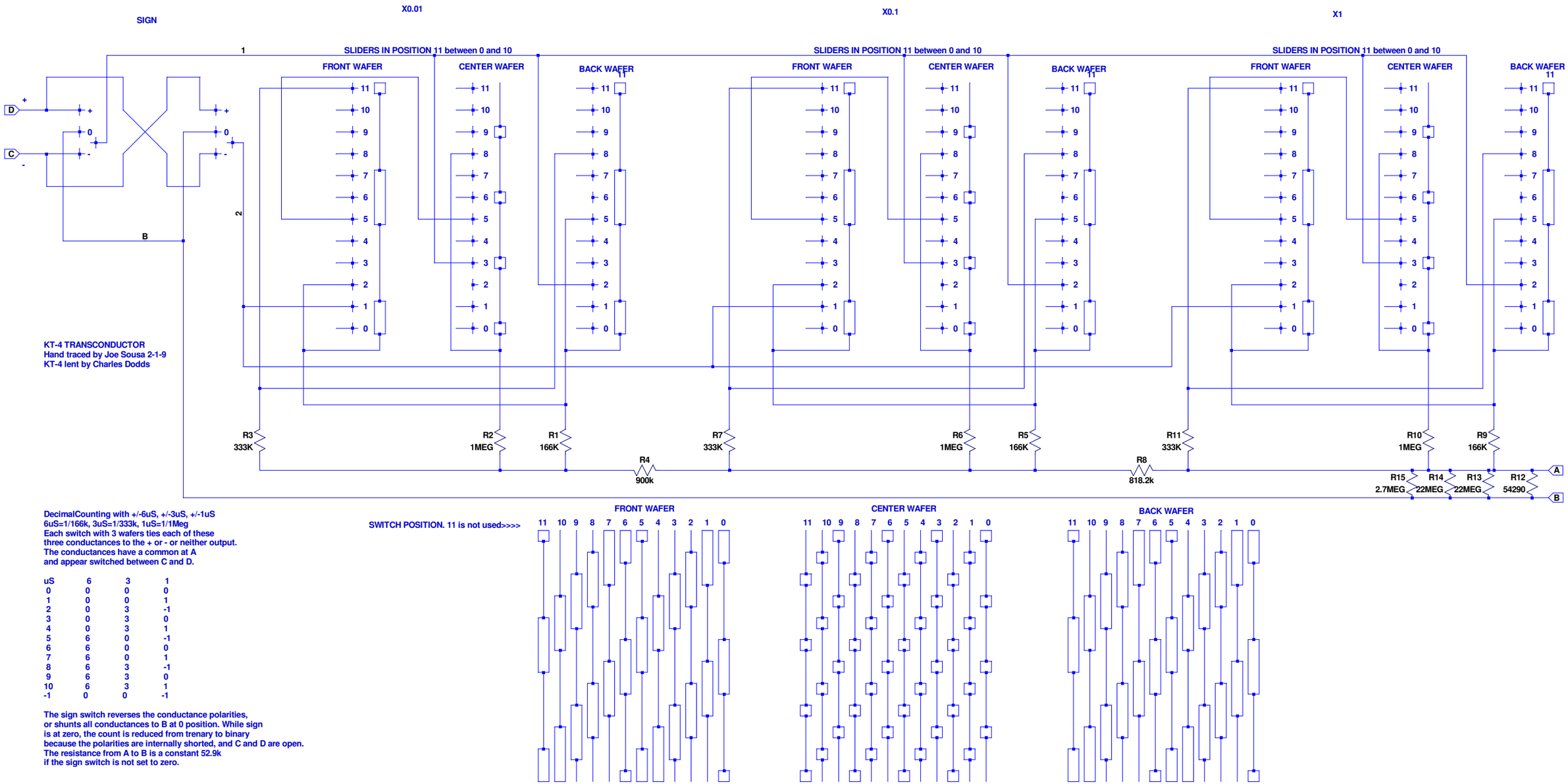

KT-4 TRANSCONDUCTOR
Hand traced by Joe Sousa 2-1-9
KT-4 lent by Charles Dodds

DecimalCounting with +/-6uS, +/-3uS, +/-1uS
6uS=1/166k, 3uS=1/333k, 1uS=1/1Meg
Each switch with 3 wafers ties each of these
three conductances to the + or - or neither output.
The conductances have a common at A
and appear switched between C and D.

uS	6	3	1
0	0	0	0
1	0	0	1
2	0	3	-1
3	0	3	0
4	0	3	1
5	6	0	-1
6	6	0	0
7	6	0	1
8	6	3	-1
9	6	3	0
10	6	3	1
-1	0	0	-1

The sign switch reverses the conductance polarities,
or shunts all conductances to B at 0 position. While sign
is at zero, the count is reduced from trenary to binary
because the polarities are internally shorted, and C and D are open.
The resistance from A to B is a constant 52.9k
if the sign switch is not set to zero.

SWITCH POSITION. 11 is not used>>>>

--- C:\Program Files\LTC\SwCADIII\Sousa\K4-T.asc ---