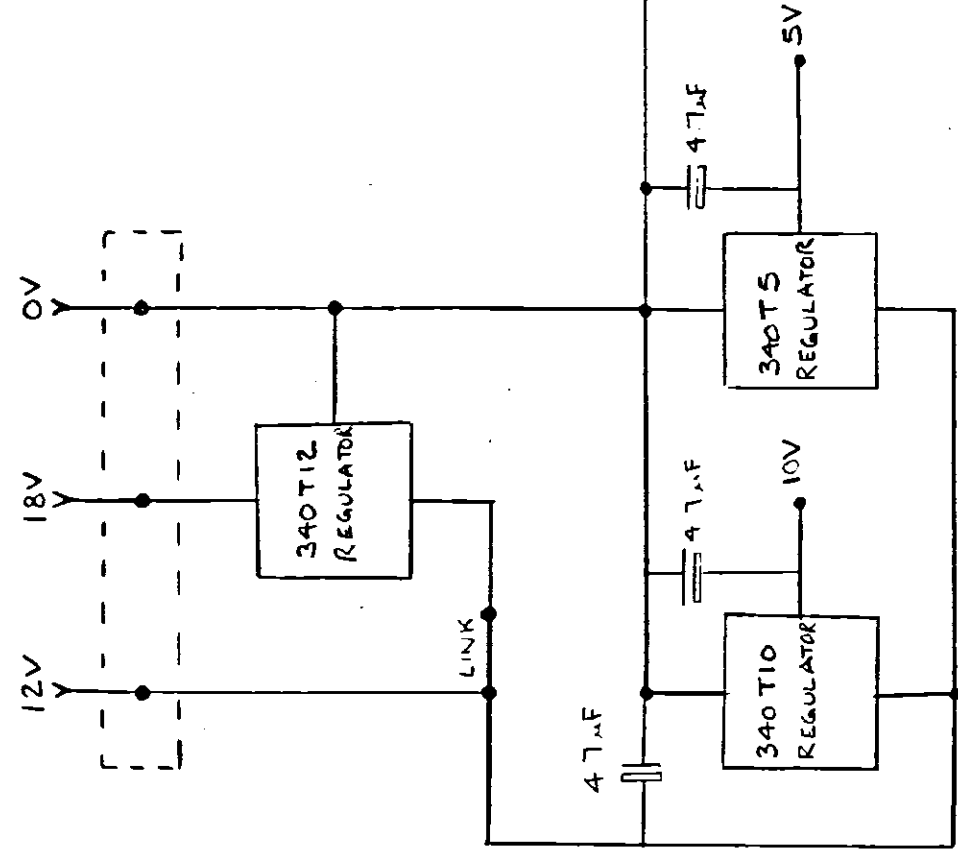


$$N = \overline{B} + C.A$$

$$N = \overline{B \cdot B \cdot C \cdot A}$$

$$= \overline{B \cdot (B + C \cdot A)}$$

$$= \overline{B} + \overline{B + C \cdot A}$$



INPUTS FROM SERVO HEAD

	G	H	K
SS	0	0	0
W/C	0	0	1
HR	0	1	X
HL	1	0	X
HB	1	1	X

INPUTS FROM H.S. HEAD

	A	B	C
SS	1	1	1
W/C	1	1	0
HR	1	0	0
HL	0	1	0
HB	0	0	0

WIRE UP TO DATA CONVERTER

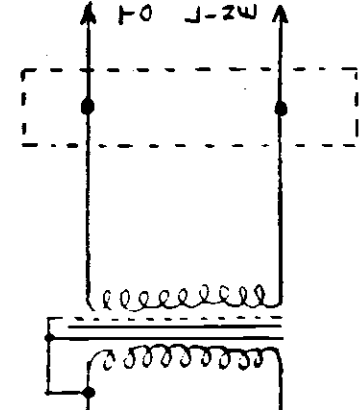
	D	E	F
SS	1	1	0
W/C	1	0	1
HR	1	0	0
HL	0	1	1
HB	0	1	0

F

AB	10	00	01
1	0	X	X
0	1	0	0

E

AB	10	00	01
1	1	X	X
0	0	1	1

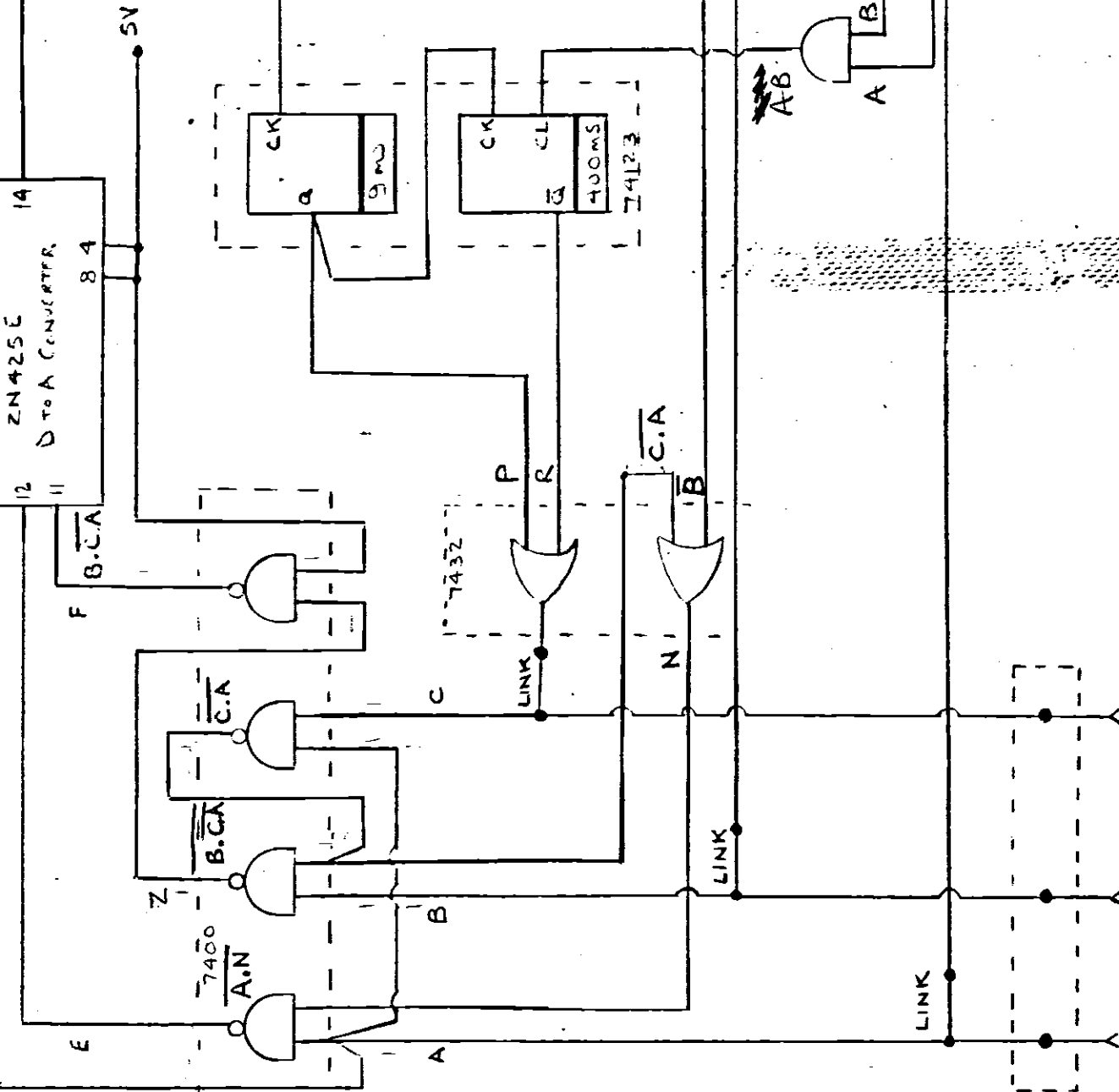


R normally high
goes low for 400ms follow w/c

C normally high goes low for 39ms, 9ms after w/c
if alarm arrives within 9ms of w/c then
C does not go low.
C does not go low during alarm.

A B OR AND

1	1	1
0	1	0
1	0	0
0	0	0



SERVO 1/P3

R later amount of K before
alarm edge.
if next alarm w/c arrives
before end of alarm it does
not get through

$$N = \overline{B} + C.A$$

$$= 0 + C.A$$

$$A.N = A.C.A$$

$$= A(\overline{C} + \overline{A})$$

G	H	K	CL	R
0	0	0	1	1
0	0	1	0	1
0	1	0	0	1
0	1	1	0	1

$$Z = \overline{B} + C.A$$

Revisions

$$N = \overline{B} + C.A$$

British Rail

British Railways Board - Scottish Region
Chief Signal and Telecommunications Engineer

Hot Box DETECTOR
FM TRANSMITTER

Chief S & T Engineer

TD 79/20