T2K LI control card codes

All LI control cards (new and old) work the same way, same codes but different meaning. The LED's are enabled through the aE code in both cards. Individual LED's were enabled in the old cards, but only one is enabled at a time. In the new cards, the LED's are in groups of 5 (A, B, C, and D are LED's 1-5, 6-10, 11-15, and 16-20) and groups can be addressed in any combination. This table is hopefully complete. *The alternate codes are used in T2K, but Minerva should probably continue to use the left-most column to maintain compatibility between old and new cards.* The alternate code works very well for new cards, but odd behavior for old cards.

Code	new card	old card	alternate code
0†	ABCD	nothing	0
a	BCD	1	1
b	A CD	2	2
c	CD	3	3
d	AB D	4	4
e	B D	5	5
f	A D	6	6
g	D	7	7
h	nothing	nothing	
i	BC	8	8
j	A C	9	9
k	C	10	10‡
l	AB	11	11‡
m	B	12	12‡
n	A	13	13‡
o	nothing	14	14‡
p	nothing	nothing	
q	BCD	15	15‡
r	A CD	16	16‡
s	CD	17	17‡
t	AB D	18	18‡
u	B D	19	19‡
v	A D	20	20‡

†= new cards only; aE0 seems to be only way to fire all LED's.

‡= odd behavior; truncation for new cards, i.e. 15->1, 16->2; for old cards, truncates to first digit, i.e. LED #1 for 10-19, #2 for "20").