

SIGNALLING & INTERLOCKING ARRANGEMENTS

THESE ARRANGEMENTS WILL BE BROUGHT INTO USE AT A TIME AND DATE TO BE ADVISED BY ALERT.
THIS CANCELS S&I No. 3478

THESE TO BE COMPLETED BY THE RECIPIENT OF THE S & I DIAGRAM

DESCRIPTION OF SIGNALS

11AR	DOWN DEPARTURE FROM D2	NORMAL SPEED TO D1
14ABR	DOWN DEPARTURE FROM C2	RESTRICTED SPEED TO D1 NORMAL SPEED TO C1 MEDIUM SPEED TO D1
80	UP SHUNT FROM E2	RESTRICTED SPEED TO C1 OR D1
83	UP SHUNT FROM F2	LOW SPEED TO E3, H4, J1, J3, J4 OR D3
87	UP SHUNT FROM G2	LOW SPEED TO E3, H4, J1, J3, J4 OR D3
90	DOWN SHUNT FROM E3	LOW SPEED TO F2 OR E2
104	DOWN SHUNT FROM E2	FIXED RED
106	DOWN SHUNT FROM F2	FIXED RED
111ABC	UP HOME FROM C1	NORMAL SPEED TO C2 LOW SPEED TO F2, E2, C2 OR G1
115AR	DOWN DEPARTURE FROM G1	NORMAL SPEED TO C1 OR D1 RESTRICTED SPEED TO C1 OR D1
127ABC	UP DIRECTING FROM D2	NORMAL SPEED TO D3 MEDIUM SPEED TO H4
128ABC	UP HOME FROM D1	LOW SPEED TO H4, J1, J3, J4 OR D3 NORMAL SPEED TO D2 MEDIUM SPEED TO C2
129ABC	UP DIRECTING FROM C2	LOW SPEED TO F2, E2, D2, C2, OR G1 NORMAL SPEED TO C3 MEDIUM SPEED TO H4 OR D3 LOW SPEED TO H4, J1, J3, J4, D3 OR C3

UP →

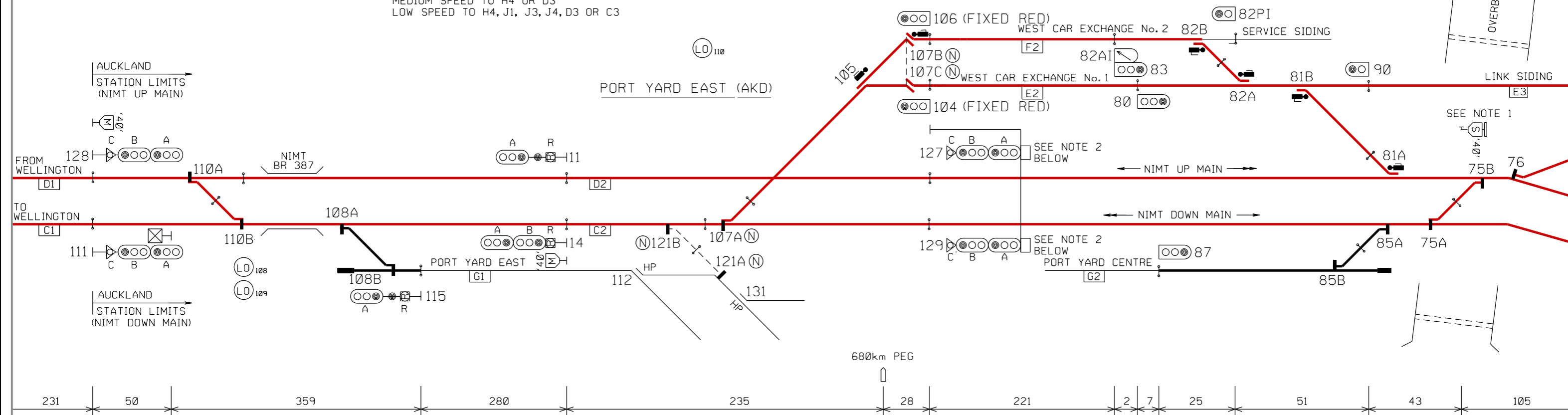
ROUTE INDICATOR DESCRIPTIONS

SIGNALS	DISPLAY	ROUTE SET TO
127 AND 129	SU	H4 (STRAND PLATFORM 1)
127 AND 129	S2	J1 (STRAND PLATFORM 2)
127 AND 129	S4	J3 (STRAND STABLING 4)
127 AND 129	S5	J4 (STRAND STABLING 5)
127 AND 129	AU	D3 (BRITOMART UP MAIN)
129	AD	C3 (BRITOMART DOWN MAIN)

KEY:

--- CROSSOVER CLOSED TO ALL SERVICES, INCLUDING HI-RAIL VEHICLES UNLESS SPECIFICALLY AUTHORISED BY BULLETIN

(N) POINTS SECURED AND DETECTED NORMAL



NOTE: 1) SIGN ABOVE 40km/h SPEED BOARD READS "NIMT"
2) DUE TO CLEARANCE PROBLEMS THE ROUTE INDICATORS ON 127 AND 129 SIGNALS ARE ABOVE THE 'A' UNITS

AXLE COUNTER (USED WITHIN AXLE COUNTER AREA)

NOTE: THIS IS A COLOUR DIAGRAM
RED LINES INDICATE ROUTE AVAILABLE FOR ELECTRIC TRAINS

(LO) LOCKOUT ARRANGEMENT NUMBER DENOTES ZONE

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ALL SIGNALS FITTED WITH ETCS
ALL 'A' LIGHTS WILL BE NORMALLY EXTINGUISHED

P.R. KING
SENIOR SIGNALS ENGINEER

AUCKLAND

SIGNALLING & INTERLOCKING ARRANGEMENTS

DESCRIPTION OF SIGNALS

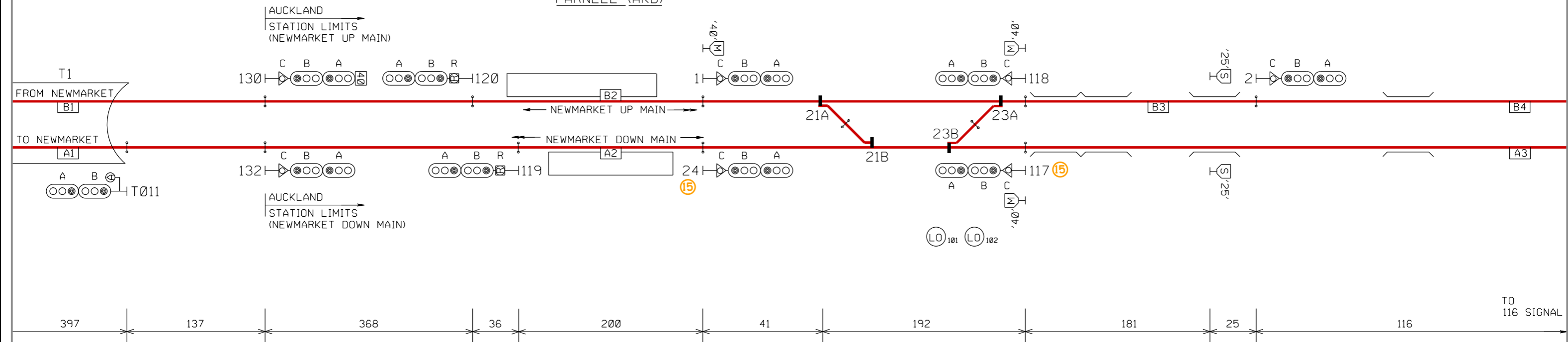
1ABC	UP HOME FROM B2	NORMAL SPEED TO B3 MEDIUM SPEED TO A4 LOW SPEED TO B3 OR A4
2ABC	UP DIRECTING FROM B3	NORMAL SPEED TO B4 LOW SPEED TO B4
24ABC	UP HOME FROM A2	NORMAL SPEED TO A4 MEDIUM SPEED TO B3 LOW SPEED TO B3 OR A4
116ABC	DOWN DIRECTING FROM A4	NORMAL SPEED TO A3 LOW SPEED TO A3
117ABC	DOWN DIRECTING FROM A3	NORMAL SPEED TO A2 MEDIUM SPEED TO B2 LOW SPEED TO B2, A2 OR Y2
118ABC	DOWN DIRECTING FROM B3	NORMAL SPEED TO B2 MEDIUM SPEED TO A2 LOW SPEED TO B2, A2 OR Y2

DESCRIPTION OF SIGNALS

119ABR	DOWN DEPARTURE FROM A2	NORMAL SPEED TO A1 RESTRICTED SPEED TO A1
120ABR	DOWN DEPARTURE FROM B2	NORMAL SPEED TO B1 RESTRICTED SPEED TO B1
130ABC	UP OUTER HOME FROM B1	NORMAL SPEED TO B2 # NORMAL SPEED (40 km/h) TO 1
132ABC	UP OUTER HOME FROM A1	LOW SPEED TO B2 NORMAL SPEED TO A2 LOW SPEED TO A2

AS DISPLAYED ON SPEED INDICATOR

PARNELL (AKD)



TO
116 SIGNAL
SHEET 3

SEE S & I DIAGRAM FOR NEWMARKET

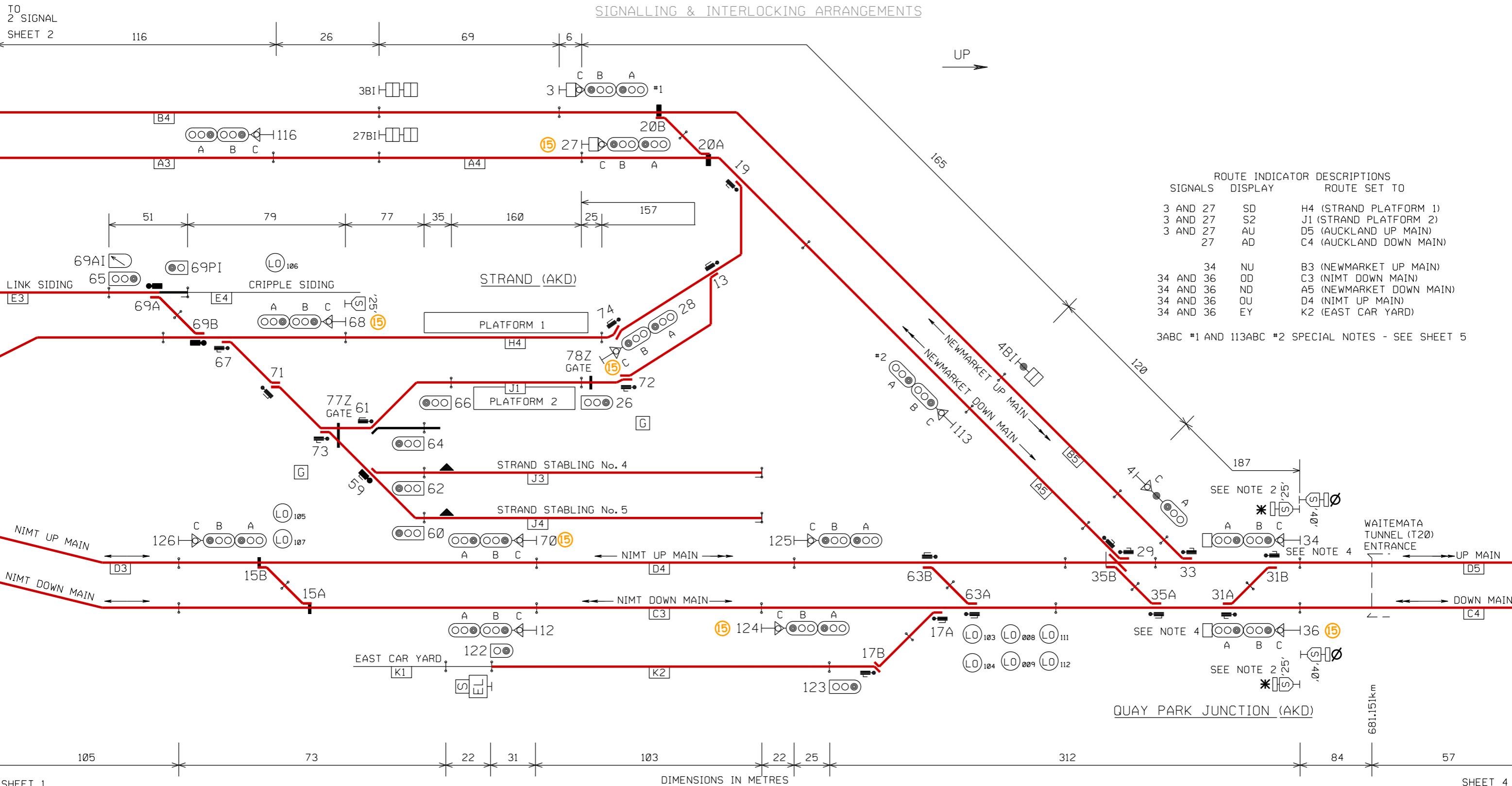
LO 101 LOCKOUT ARRANGEMENT NUMBER DENOTES ZONE

15 ETCS APPROACH SPEED (15 km/h)

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SIGNALLING & INTERLOCKING ARRANGEMENTS



SIGNALS	DISPLAY	ROUTE INDICATOR DESCRIPTIONS	ROUTE SET TO
3 AND 27	SD	H4	(STRAND PLATFORM 1)
3 AND 27	S2	J1	(STRAND PLATFORM 2)
3 AND 27	AU	D5	(AUCKLAND UP MAIN)
27	AD	C4	(AUCKLAND DOWN MAIN)
34	NU	B3	(NEWMARKET UP MAIN)
34 AND 36	OD	C3	(NIMT DOWN MAIN)
34 AND 36	ND	A5	(NEWMARKET DOWN MAIN)
34 AND 36	OU	D4	(NIMT UP MAIN)
34 AND 36	EY	K2	(EAST CAR YARD)

3ABC #1 AND 113ABC #2 SPECIAL NOTES - SEE SHEET 5

SHEET 1 SHEET 4

DIMENSIONS IN METRES

- NOTES: 1 * SPEED BOARD MOUNTED ON SIGNAL
2 SIGN ABOVE SLOW 25km/h SPEED BOARD LEADING TO NEWMARKET
- NEWMKT LINE
- 3 ∅ ADDITIONAL BOARD WITH WORDING 'FOR TRAIN FROM NEWMARKET WHEN CLEAR OF TURNOUT'

- NOTES CONT: 4 DUE TO CLEARANCE PROBLEMS THE ROUTE INDICATORS ON 34 AND 36 SIGNALS ARE ABOVE THE 'A' UNITS
5 77Z AND 78Z ARE 5.5 m SLIDING GATES
6 [G] CONTROL FOR SLIDING GATES
7 ▲ MANUAL DERAILERS LOCKED IN 'OPEN' POSITION. REFER TO L1.2 LOCAL INSTRUCTIONS.
- 15 ETCS APPROACH SPEED (15 km/h)

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SIGNALLING & INTERLOCKING ARRANGEMENTS

DESCRIPTION OF SIGNALS

38AC	UP DIRECTING FROM D5	NORMAL SPEED TO D6 LOW SPEED TO D6
40ABC	DOWN DIRECTING FROM C5	NORMAL SPEED TO C4 LOW SPEED TO P1, P2, P3 OR P4
42ABC	UP DIRECTING FROM D6	NORMAL SPEED TO D7 MEDIUM SPEED TO P1, P2 OR P3 LOW SPEED TO P1, P2, P3 OR D7
44AC	UP DIRECTING FROM D7	NORMAL SPEED TO P4 LOW SPEED TO P4
46ABC	DOWN DIRECTING FROM D6	NORMAL SPEED TO D5 LOW SPEED TO D5
48AC	UP DIRECTING FROM C4	NORMAL SPEED TO C5 LOW SPEED TO C5
50ABC	UP DIRECTING FROM C5	NORMAL SPEED TO P1 MEDIUM SPEED TO P2, P3 OR D7 LOW SPEED TO P1, P2, P3 OR D7
51AC	DOWN DIRECTING FROM P1	NORMAL SPEED TO C5 MEDIUM SPEED TO D6 LOW SPEED TO C5 OR D6
52AC	DOWN DIRECTING FROM P2	NORMAL SPEED TO C5 OR D6 LOW SPEED TO C5 OR D6
53AC	DOWN DIRECTING FROM P3	NORMAL SPEED TO C5 OR D6 LOW SPEED TO C5 OR D6
54AC	DOWN DIRECTING FROM P4	NORMAL SPEED TO C5 OR D6 MEDIUM SPEED TO C5 LOW SPEED TO C5 OR D6
134AR	UP DEPARTURE FROM PLATFORM 4	NORMAL SPEED TO UP MAIN RESTRICTED SPEED TO UP MAIN
136AR	UP DEPARTURE FROM PLATFORM 1	NORMAL SPEED TO DOWN MAIN RESTRICTED SPEED TO DOWN MAIN
135ABC	DOWN HOME FROM UP MAIN	NORMAL SPEED TO PLATFORM 4 LOW SPEED TO PLATFORM 4
137ABC	DOWN HOME FROM DOWN MAIN	NORMAL SPEED TO PLATFORM 1 LOW SPEED TO PLATFORM 1

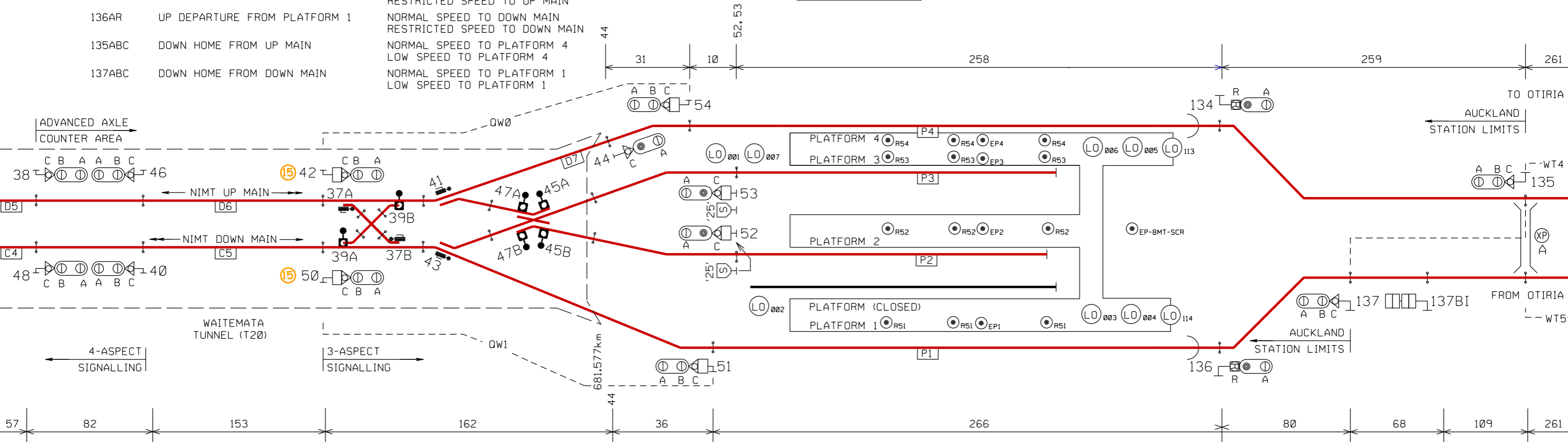
42 AND 50 SIGNALS ROUTE INDICATOR DESCRIPTIONS

- 1 - ROUTE SET TO P1
- 2 - ROUTE SET TO P2
- 3 - ROUTE SET TO P3
- 4 - ROUTE SET TO P4

51, 52, 53 AND 54 SIGNALS ROUTE INDICATOR DESCRIPTIONS

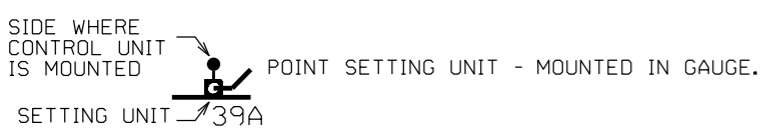
- D - DOWN MAIN

WAITEMATA (AKD)



SHEET 3

VOESTALPINE POINT MACHINE NOTES:
CRANK HANDLE IN LOCKED BOX - REFER TO LOCAL INSTRUCTIONS



- 15 ETCS APPROACH SPEED (15 km/h)
- EP1 PLATFORM EMERGENCY PLUNGER DEVICE
- EP-BMT-SCR MASTER EMERGENCY PLUNGER IN STATION CONTROL ROOM

- 44 MINIATURE TUNNEL SIGNAL FITTED WITH SINGLE TRI-COLOUR UNIT AND MARKER LIGHT
- 38 MINIATURE TUNNEL SIGNAL FITTED WITH DOUBLE TRI-COLOUR UNITS

SEE S & I DIAGRAM FOR
TE WAIHOROTIU - KARANGA-A-HAPE

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P.R. KING
SENIOR SIGNALS ENGINEER

AUCKLAND

SIGNALLING & INTERLOCKING ARRANGEMENTS

DESCRIPTION OF SIGNALS

SHEET 3 - STRAND & QUAY PARK (AKD)

*1 - 3ABC	UP DIRECTING FROM B4	NORMAL SPEED TO B5 MEDIUM SPEED TO H4 LOW SPEED TO B5, H4 OR J1
4AC	UP DIRECTING FROM B5	NORMAL SPEED TO D5 LOW SPEED TO D5
12ABC	DOWN DIRECTING FROM C3	NORMAL SPEED TO C2 MEDIUM SPEED TO D2 LOW SPEED TO G2, C2, D2, E2 OR F2
26	DOWN SHUNT FROM J1	LOW SPEED TO A4 OR B3
27ABC	UP DIRECTING FROM A4	NORMAL SPEED TO C4 MEDIUM SPEED TO D5 OR H4 LOW SPEED TO D5, C4, H4 OR J1
28ABC	DOWN DIRECTING FROM H4	NORMAL SPEED TO A4 MEDIUM SPEED TO B3 LOW SPEED TO A4 OR B3
34ABC	DOWN DIRECTING FROM D5	NORMAL SPEED TO D4 MEDIUM SPEED TO C3, A5 OR B3 LOW SPEED TO K2, C3, D4, A5 OR B3
36ABC	DOWN DIRECTING FROM C4	NORMAL SPEED TO C3 MEDIUM SPEED TO D4 OR A5 LOW SPEED TO K2, C3, D4 OR A5
60	UP SHUNT FROM J4	LOW SPEED TO G2, C2, D2, E2, F2 OR E3
62	UP SHUNT FROM J3	LOW SPEED TO G2, C2, D2, E2, F2 OR E3
64	UP SHUNT FROM J2	LOW SPEED TO G2, C2, D2, E2, F2 OR E3
65	UP SHUNT FROM E3	LOW SPEED TO H4, J1, J2, J3 OR J4
66	DOWN SHUNT FROM J1	LOW SPEED TO G2, C2, D2, E2, F2 OR E3
68ABC	DOWN DIRECTING FROM H4	NORMAL SPEED TO D2 MEDIUM SPEED TO C2 LOW SPEED TO G2, C2, D2, E2, F2 OR E3
70ABC	DOWN DIRECTING FROM D4	NORMAL SPEED TO D2 MEDIUM SPEED TO C2 LOW SPEED TO G2, C2, D2, E2 OR F2
*2 - 113ABC	DOWN DIRECTING FROM A5	NORMAL SPEED TO A4 LOW SPEED TO A4
122	UP SHUNT FROM K1	LOW SPEED TO K2
123	UP SHUNT FROM K2	LOW SPEED TO C4 OR D5
124ABC	UP DIRECTING FROM C3	NORMAL SPEED TO C4 MEDIUM SPEED TO D5 LOW SPEED TO D5 OR C4
125ABC	UP DIRECTING FROM D4	NORMAL SPEED TO D5 MEDIUM SPEED TO C4 LOW SPEED TO D5 OR C4
126ABC	UP DIRECTING FROM D3	NORMAL SPEED TO D4 MEDIUM SPEED TO C3 LOW SPEED TO D4 OR C3

*1 - ROUTE FROM 3ABC TO A5 VIA 20A/B REVERSE NOT AVAILABLE
IN SIGNALLING OR FOR MANUAL WORKING

*2 - ROUTE FROM 113ABC TO B4 VIA 20A/B REVERSE NOT AVAILABLE
IN SIGNALLING OR FOR MANUAL WORKING