

DRIVERS ROUTE KNOWLEDGE DIAGRAMS

MAIN WEST (BLUE MOUNTAINS) LINE

EMU PLAINS
LAPSTONE
GLENBROOK
BLAXLAND
WARRIMOO
VALLEY HEIGHTS
SPRINGWOOD
FAULCONBRIDGE
LINDEN
WOODFORD
HAZELBROOK
LAWSON
BULLABURRA
WENTWORTH FALLS
LEURA
KATOOMBA
MEDLOW BATH
BLACKHEATH
MT VICTORIA
BELL
NEWNES JUNCTION
EDGECOMBE
ZIG ZAG
LITHGOW

Effective Date: June 2026

Version: 5.08

Explanatory Notes:

Navigate to your area of interest via the station index or by using links created in Adobe bookmarks.

This document is approved for **route knowledge only**.

Do not use these diagrams for any safety related purpose without validating the information against a controlled source or in the field.

Information in these diagrams is uncontrolled.

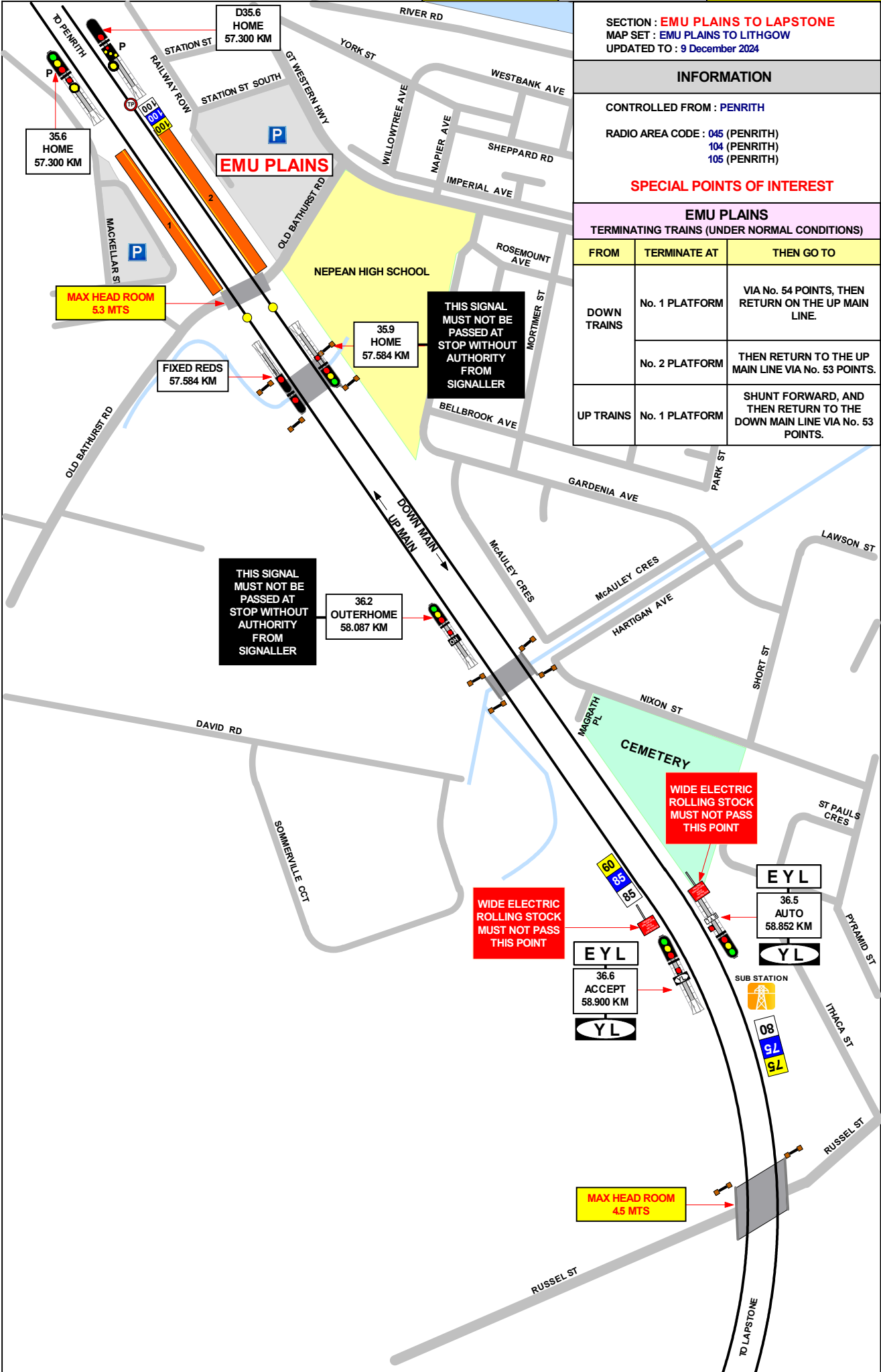
Please report any updates to gis.support@transport.nsw.gov.au



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Location: CM Record No.D2015/572



SECTION : **EMU PLAINS TO LAPSTONE**
 MAP SET : EMU PLAINS TO LITHGOW
 UPDATED TO : 9 December 2024

INFORMATION

CONTROLLED FROM : **PENRITH**

RADIO AREA CODE : 045 (PENRITH)
 104 (PENRITH)
 105 (PENRITH)

SPECIAL POINTS OF INTEREST

EMU PLAINS
 TERMINATING TRAINS (UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN TRAINS	No. 1 PLATFORM	VIA No. 54 POINTS, THEN RETURN ON THE UP MAIN LINE.
	No. 2 PLATFORM	THEN RETURN TO THE UP MAIN LINE VIA No. 53 POINTS.
UP TRAINS	No. 1 PLATFORM	SHUNT FORWARD, AND THEN RETURN TO THE DOWN MAIN LINE VIA No. 53 POINTS.

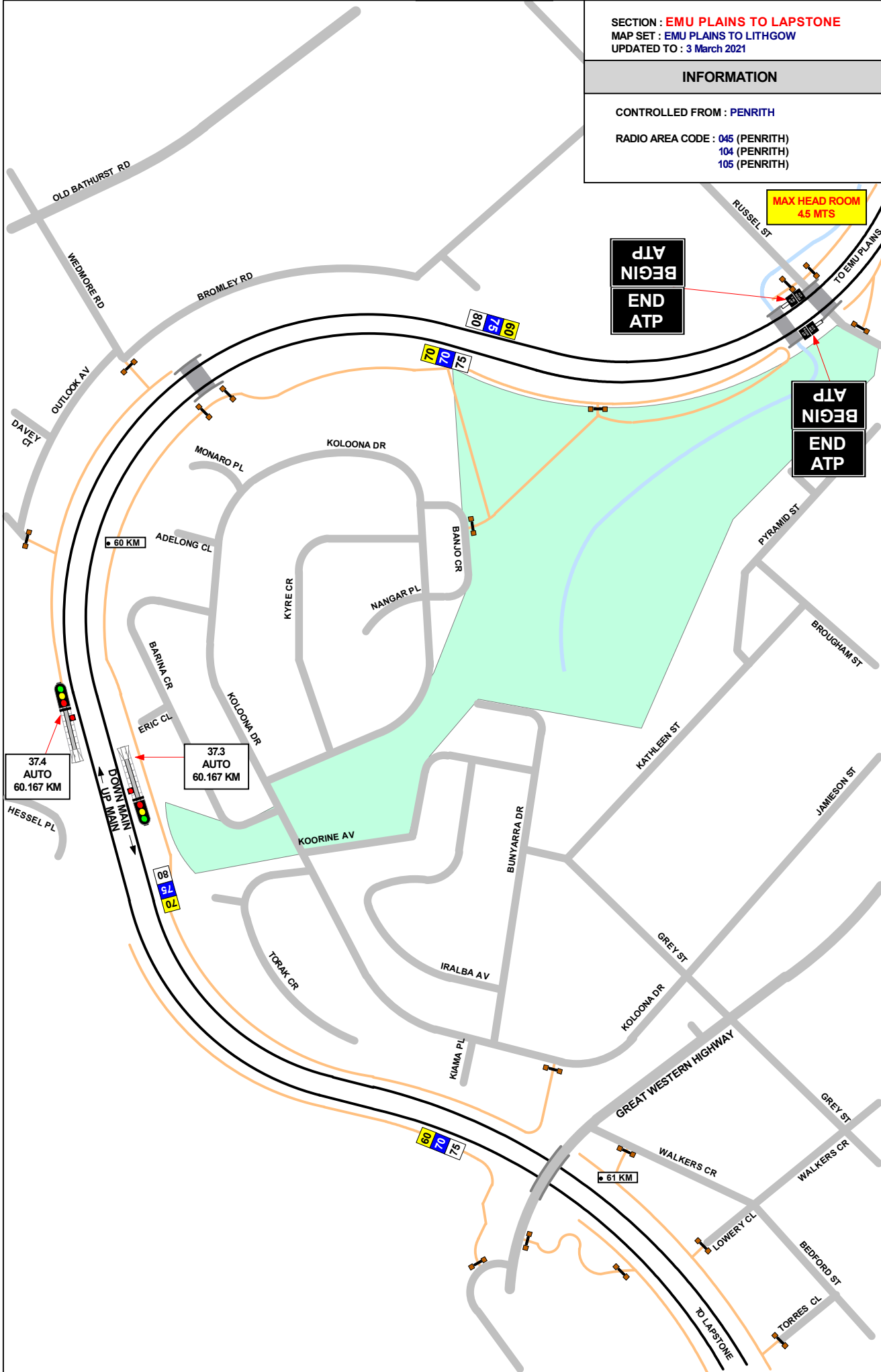
GRADIENT
LEVEL
1 IN 280
LEVEL
1 IN 186
LEVEL

SECTION : EMU PLAINS TO LAPSTONE
MAP SET : EMU PLAINS TO LITHGOW
UPDATED TO : 3 March 2021

INFORMATION

CONTROLLED FROM : PENRITH

RADIO AREA CODE : 045 (PENRITH)
104 (PENRITH)
105 (PENRITH)



MAX HEAD ROOM
4.5 MTS

BEGIN
ATP
END
ATP

BEGIN
ATP
END
ATP

37.4
AUTO
60.167 KM

37.3
AUTO
60.167 KM

1 IN 60

SECTION : EMU PLAINS TO LITHGOW
MAP SET : EMU PLAINS TO LAPSTONE
UPDATED TO : 28 MAY 2015

GRADIENT

INFORMATION

CONTROLLED FROM : PENRITH
RADIO AREA CODE : 045 (PENRITH)
104 (PENRITH)
105 (PENRITH)



1 IN 60

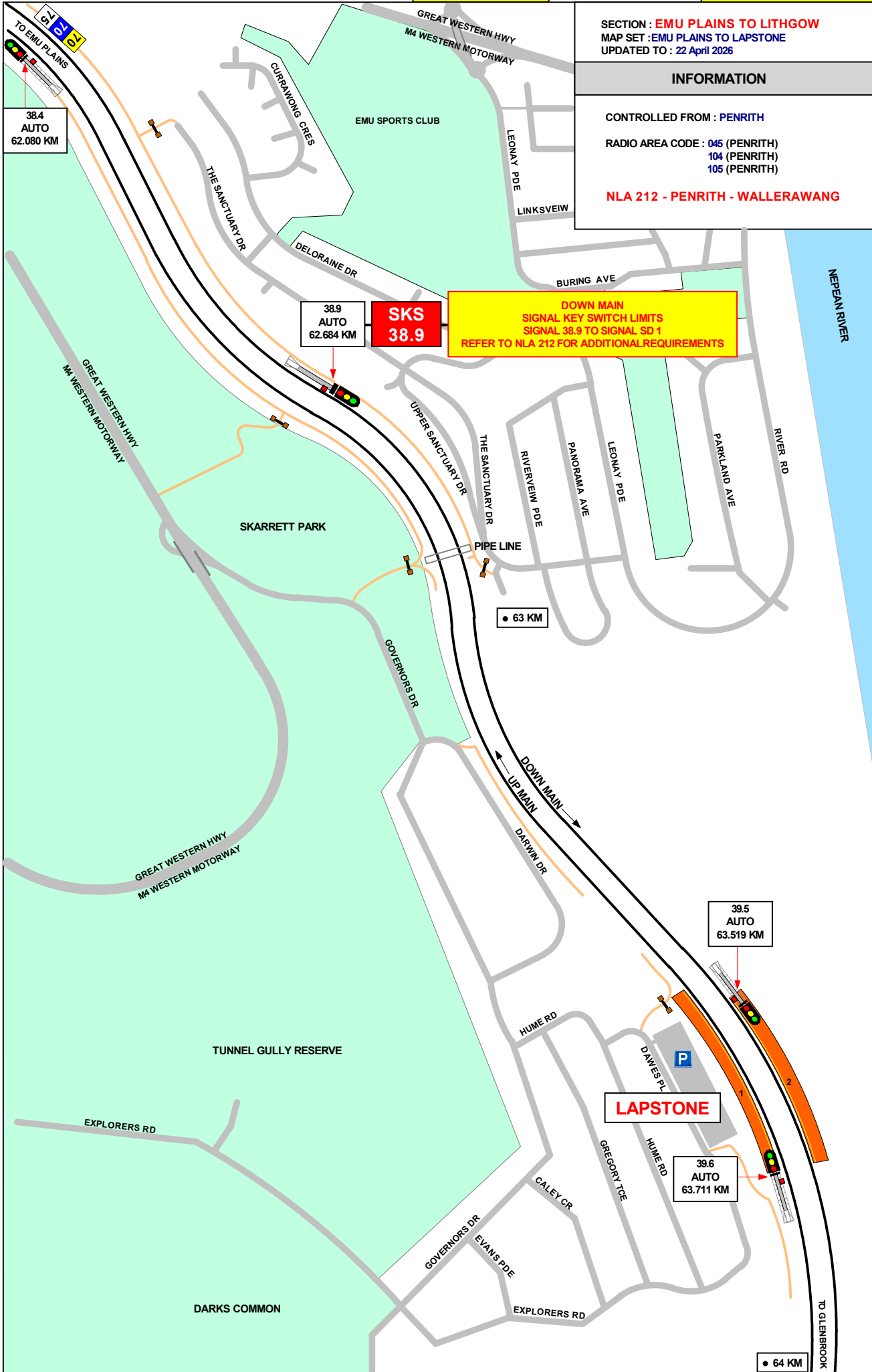
SECTION : EMU PLAINS TO LITHGOW
MAP SET : EMU PLAINS TO LAPSTONE
UPDATED TO : 22 April 2026

INFORMATION

CONTROLLED FROM : PENRITH

RADIO AREA CODE : 045 (PENRITH)
104 (PENRITH)
105 (PENRITH)

NLA 212 - PENRITH - WALLERAWANG



DOWN MAIN
SIGNAL KEY SWITCH LIMITS
SIGNAL 38.9 TO SIGNAL SD 1
REFER TO NLA 212 FOR ADDITIONAL REQUIREMENTS

SKS
38.9
AUTO
62.684 KM

38.4
AUTO
62.080 KM

39.5
AUTO
63.519 KM

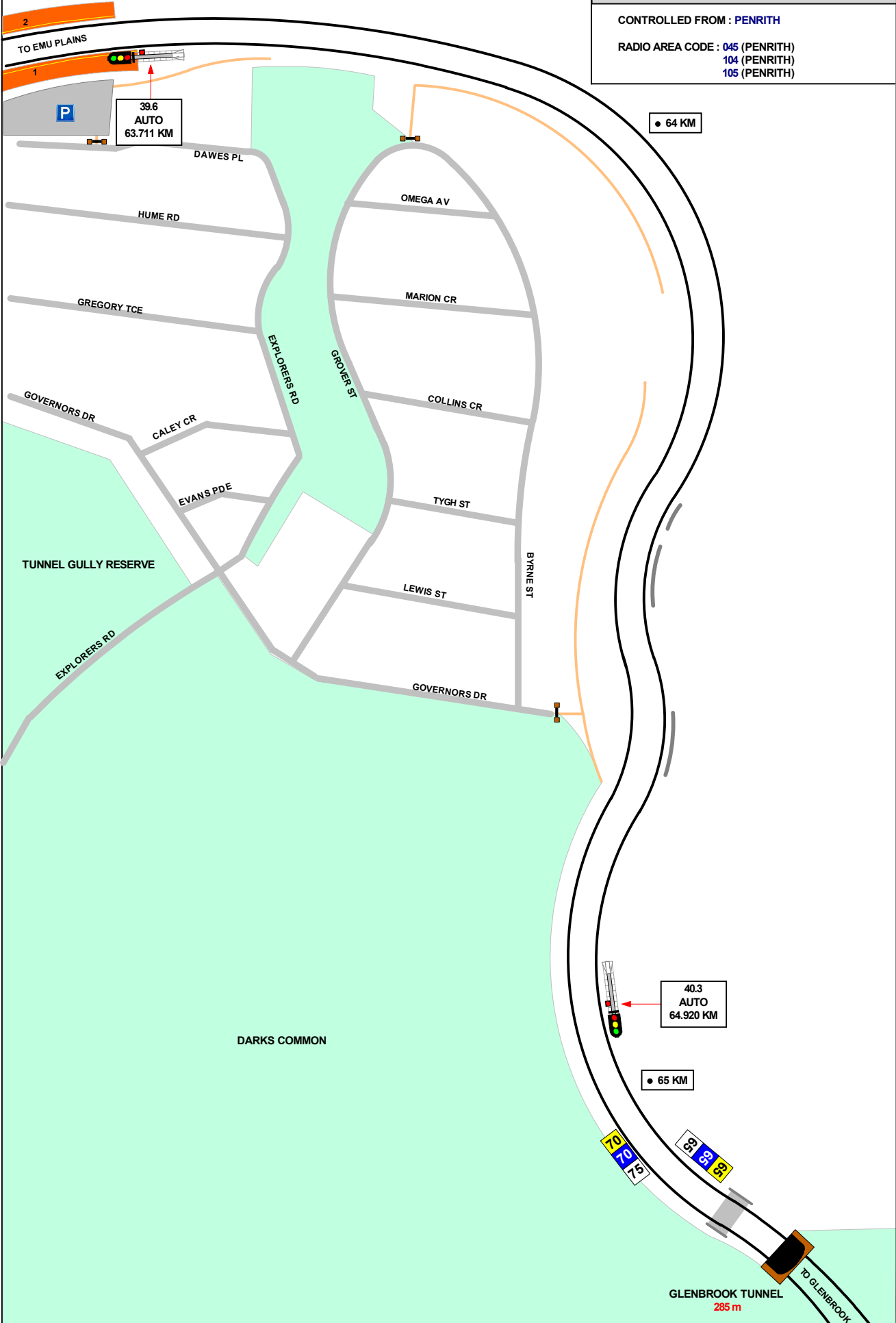
39.6
AUTO
63.711 KM

LAPSTONE

SECTION : EMU PLAINS TO LITHGOW
MAP SET : LAPSTONE TO GLENBROOK TUNNEL
UPDATED TO : 4 March 2026

INFORMATION

CONTROLLED FROM : PENRITH
RADIO AREA CODE : 045 (PENRITH)
104 (PENRITH)
105 (PENRITH)



1 IN 60

SECTION : EMU PLAINS TO LITHGOW
MAP SET : GLENBROOK TO BLAXLAND
UPDATED TO : 22 April 2026

INFORMATION

CONTROLLED FROM : PENRITH

RADIO AREA CODE : 045 (PENRITH)

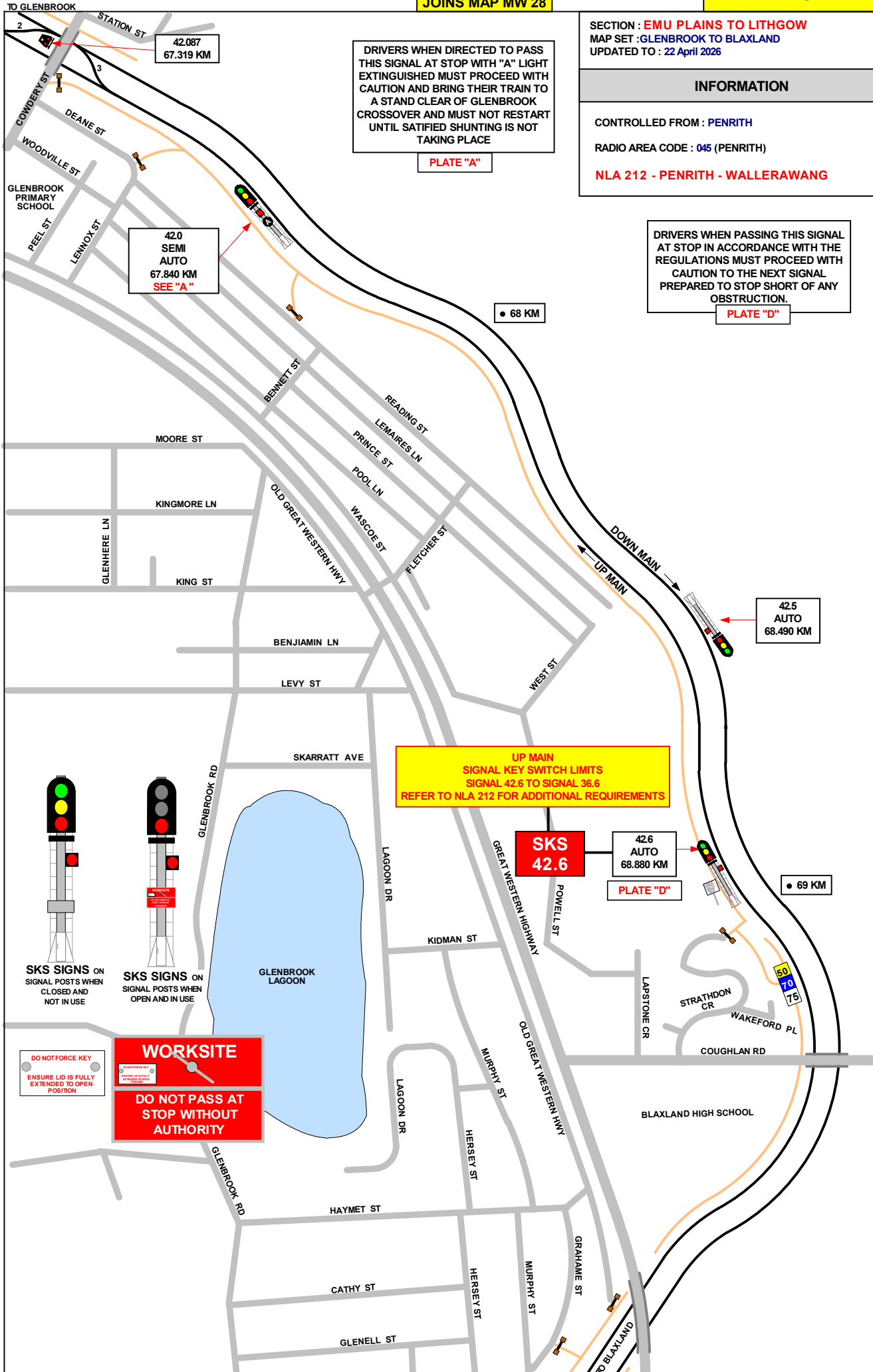
NLA 212 - PENRITH - WALLERAWANG

DRIVERS WHEN DIRECTED TO PASS THIS SIGNAL AT STOP WITH "A" LIGHT EXTINGUISHED MUST PROCEED WITH CAUTION AND BRING THEIR TRAIN TO A STAND CLEAR OF GLENBROOK CROSSOVER AND MUST NOT RESTART UNTIL SATISFIED SHUNTING IS NOT TAKING PLACE

PLATE "A"

DRIVERS WHEN PASSING THIS SIGNAL AT STOP IN ACCORDANCE WITH THE REGULATIONS MUST PROCEED WITH CAUTION TO THE NEXT SIGNAL PREPARED TO STOP SHORT OF ANY OBSTRUCTION.

PLATE "D"

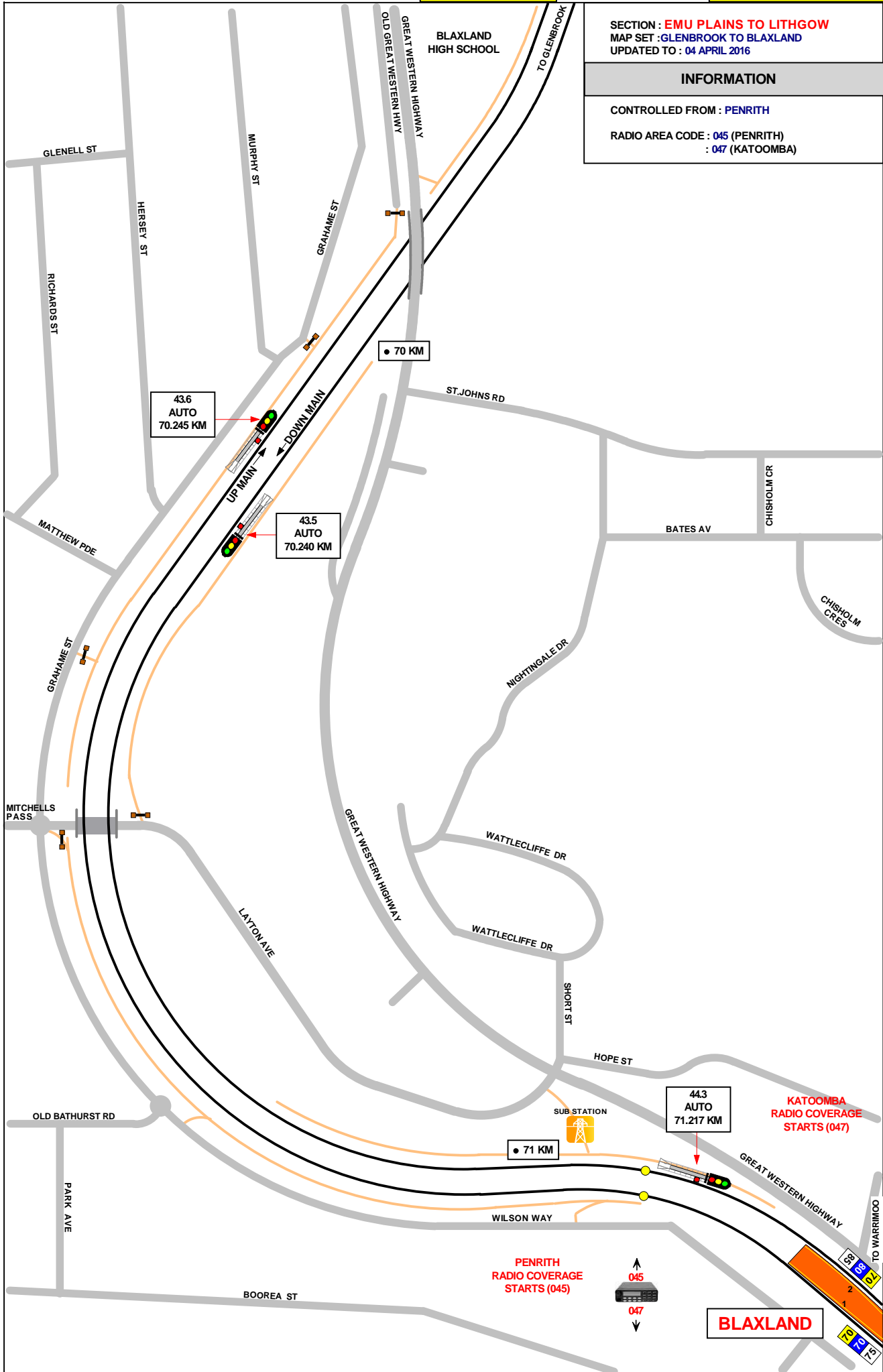


SECTION : EMU PLAINS TO LITHGOW
MAP SET : GLENBROOK TO BLAXLAND
UPDATED TO : 04 APRIL 2016

INFORMATION

CONTROLLED FROM : PENRITH

RADIO AREA CODE : 045 (PENRITH)
: 047 (KATOOMBA)



BLAXLAND



TO GLENBROOK

BLAXLAND

SECTION : EMU PLAINS TO LITHGOW
MAP SET : BLAXLAND TO WARRIMOO
UPDATED TO : 04 APRIL 2016

GRADIENT

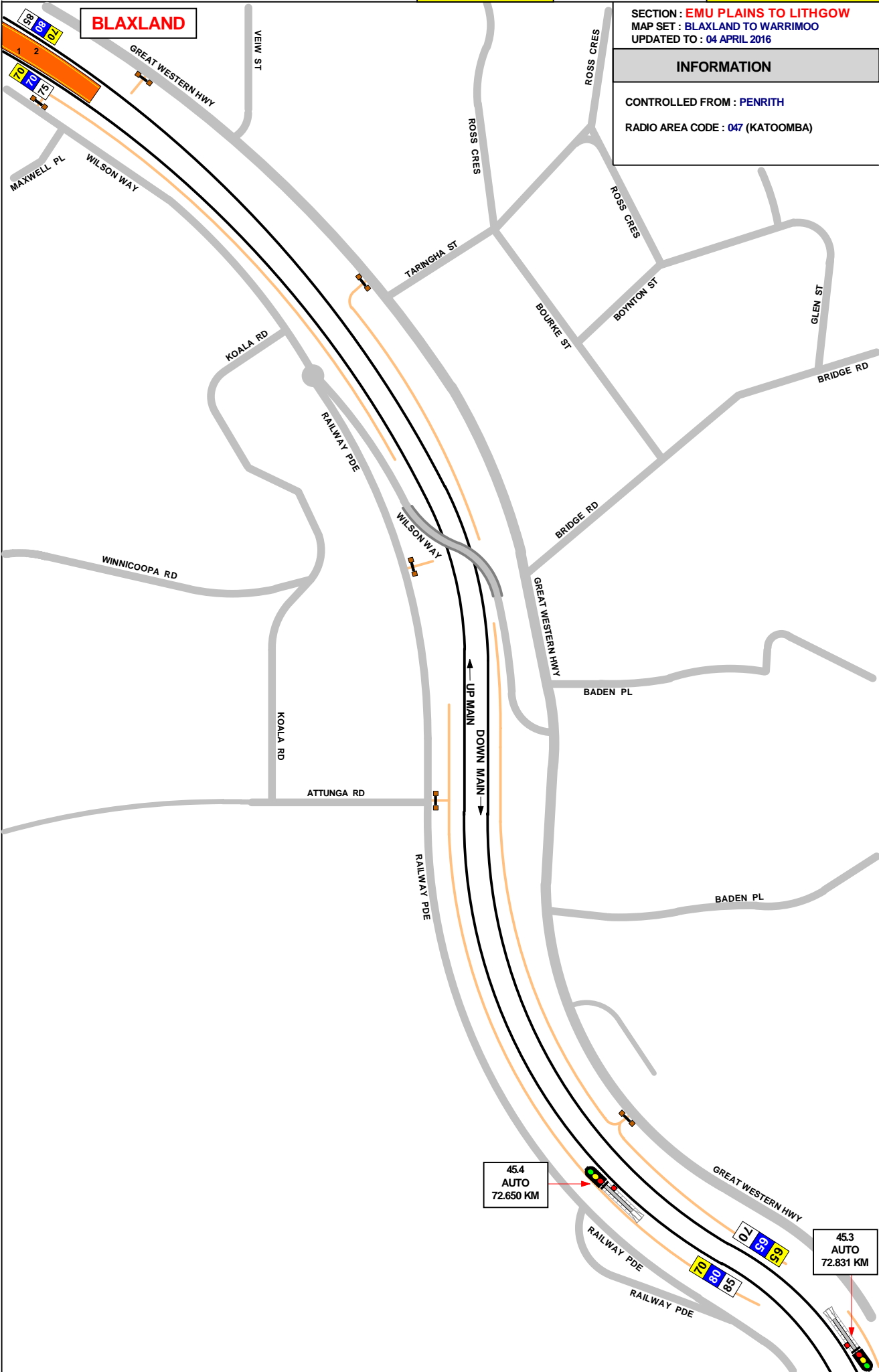
INFORMATION

CONTROLLED FROM : PENRITH
RADIO AREA CODE : 047 (KATOOMBA)

1 IN 60

1 IN 100

1 IN 66



45.4
AUTO
72.650 KM

45.3
AUTO
72.831 KM

TO WARRIMOO

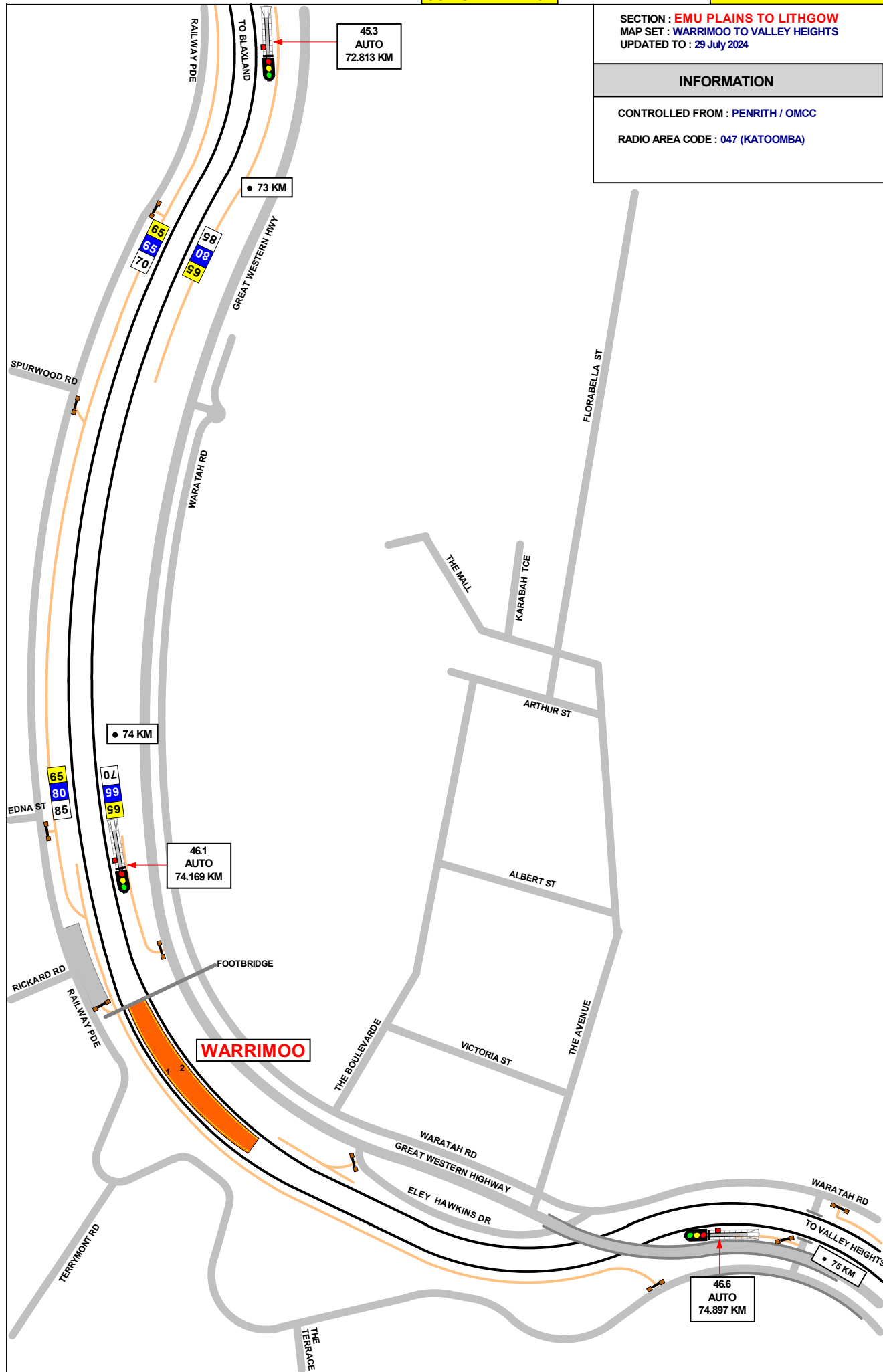
SECTION : EMU PLAINS TO LITHGOW
MAP SET : WARRIMOO TO VALLEY HEIGHTS
UPDATED TO : 29 July 2024

GRADIENT

INFORMATION

CONTROLLED FROM : PENRITH / OMCC

RADIO AREA CODE : 047 (KATOOMBA)



1 IN 68

1 IN 60

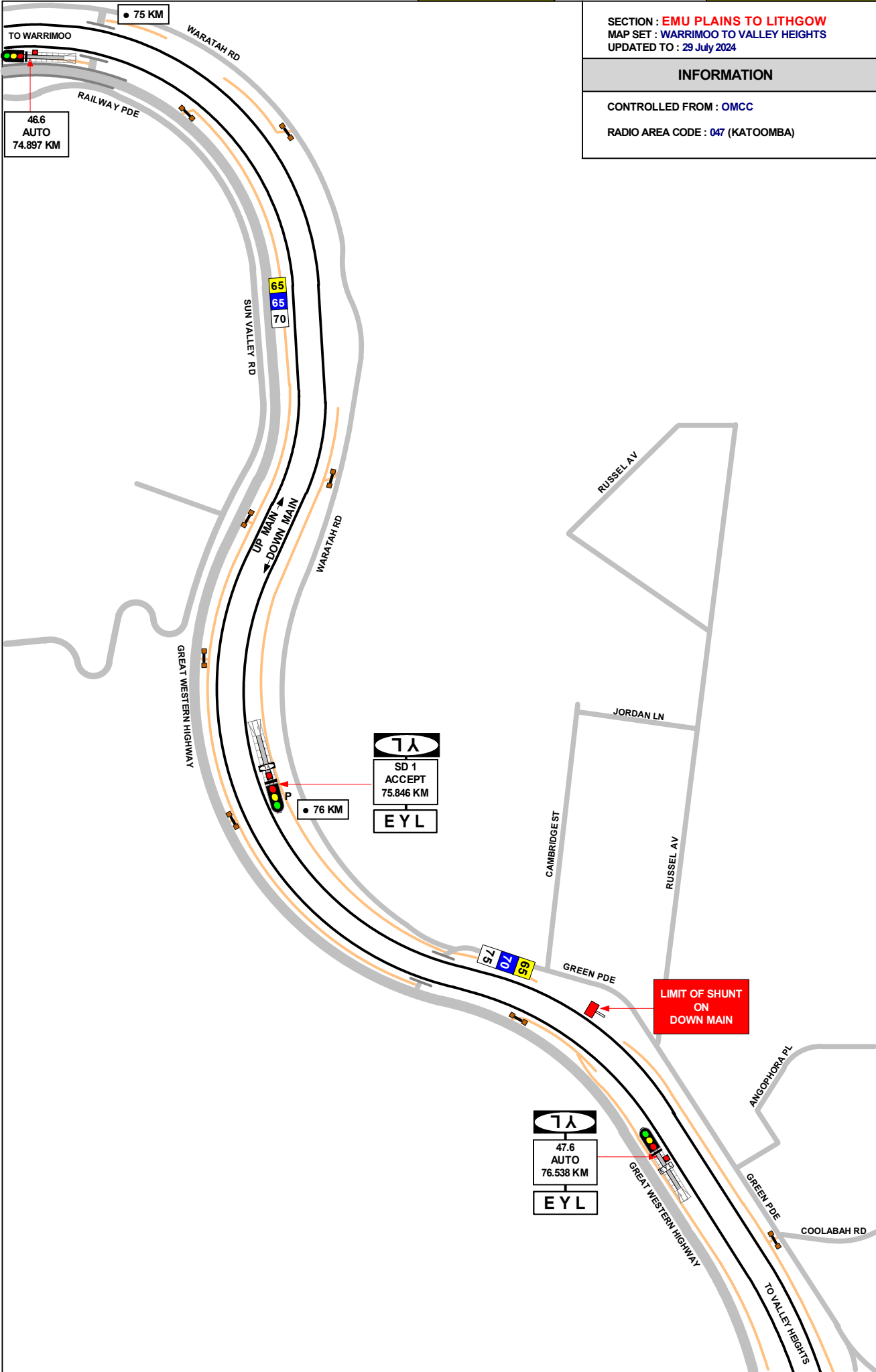
1 IN 60

SECTION : **EMU PLAINS TO LITHGOW**
MAP SET : WARRIMOO TO VALLEY HEIGHTS
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)



1 IN 60

SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **VALLEY HEIGHTS**
 UPDATED TO : 22 April 2026

GRADIENT

INFORMATION

CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **047 (KATOOMBA)**

NLA 212
 REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

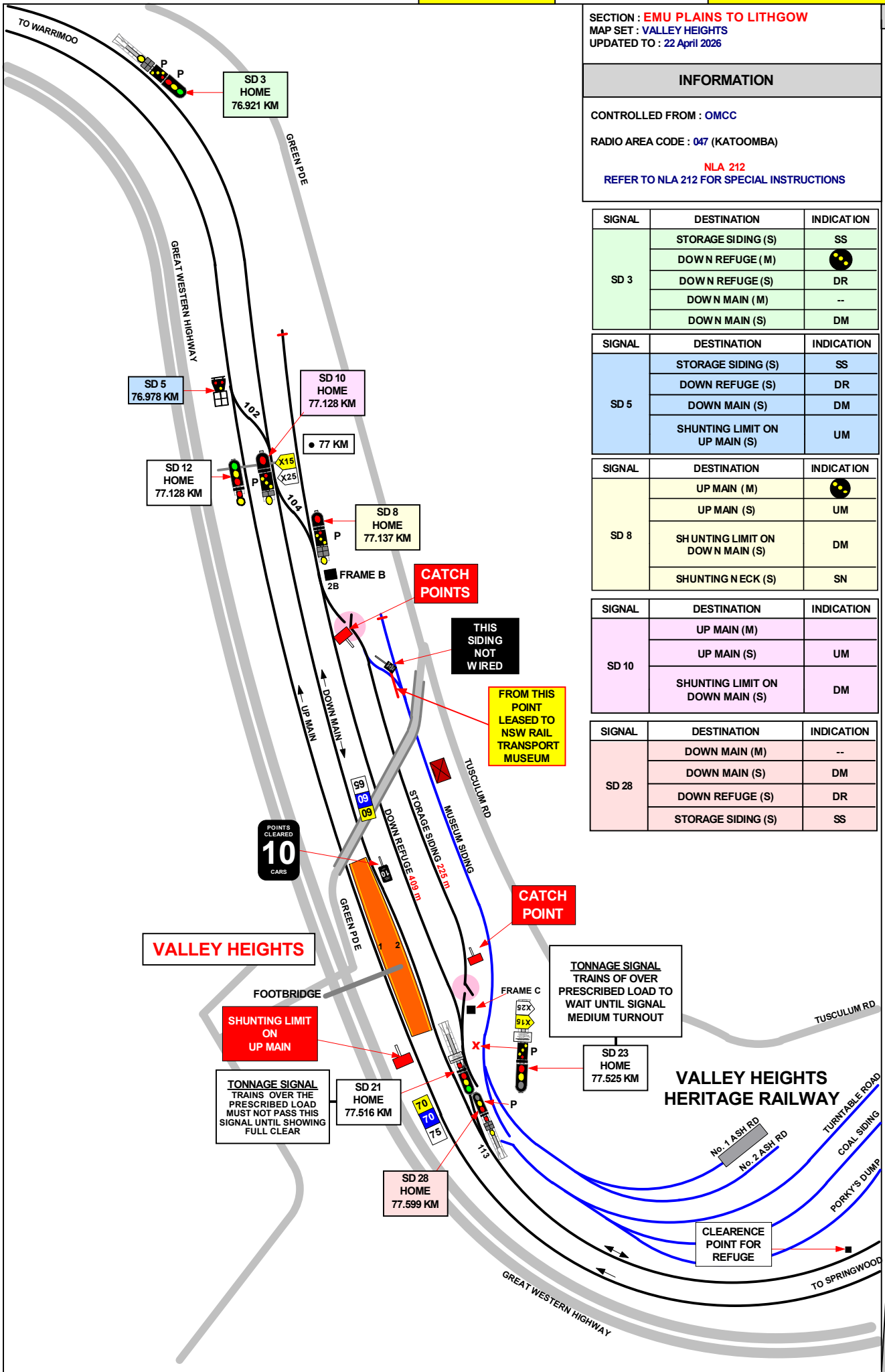
SIGNAL	DESTINATION	INDICATION
SD 3	STORAGE SIDING (S)	SS
	DOWN REFUGE (M)	●●●
	DOWN REFUGE (S)	DR
	DOWN MAIN (M)	--
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SD 5	STORAGE SIDING (S)	SS
	DOWN REFUGE (S)	DR
	DOWN MAIN (S)	DM
	SHUNTING LIMIT ON UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SD 8	UP MAIN (M)	●●●
	UP MAIN (S)	UM
	SHUNTING LIMIT ON DOWN MAIN (S)	DM
	SHUNTING NECK (S)	SN

SIGNAL	DESTINATION	INDICATION
SD 10	UP MAIN (M)	
	UP MAIN (S)	UM
	SHUNTING LIMIT ON DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SD 28	DOWN MAIN (M)	--
	DOWN MAIN (S)	DM
	DOWN REFUGE (S)	DR
	STORAGE SIDING (S)	SS



1 IN 60

1 IN 53

1 IN 33

SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **VALLEY HEIGHTS TO SPRINGWOOD**
 UPDATED TO : 3 July 2025

GRADIENT

INFORMATION

CONTROLLED FROM : **OMCC**

RADIO AREA CODE : **047 (KATOOMBA)**

SIGNAL	DESTINATION	INDICATION
SD 35	DOWN MAIN (M)	--
	DOWN MAIN (S)	DM
	UP MAIN (M)	☀
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SD 38	UP MAIN(M)	--
	DOWN MAIN (M)	☀

1 IN 33

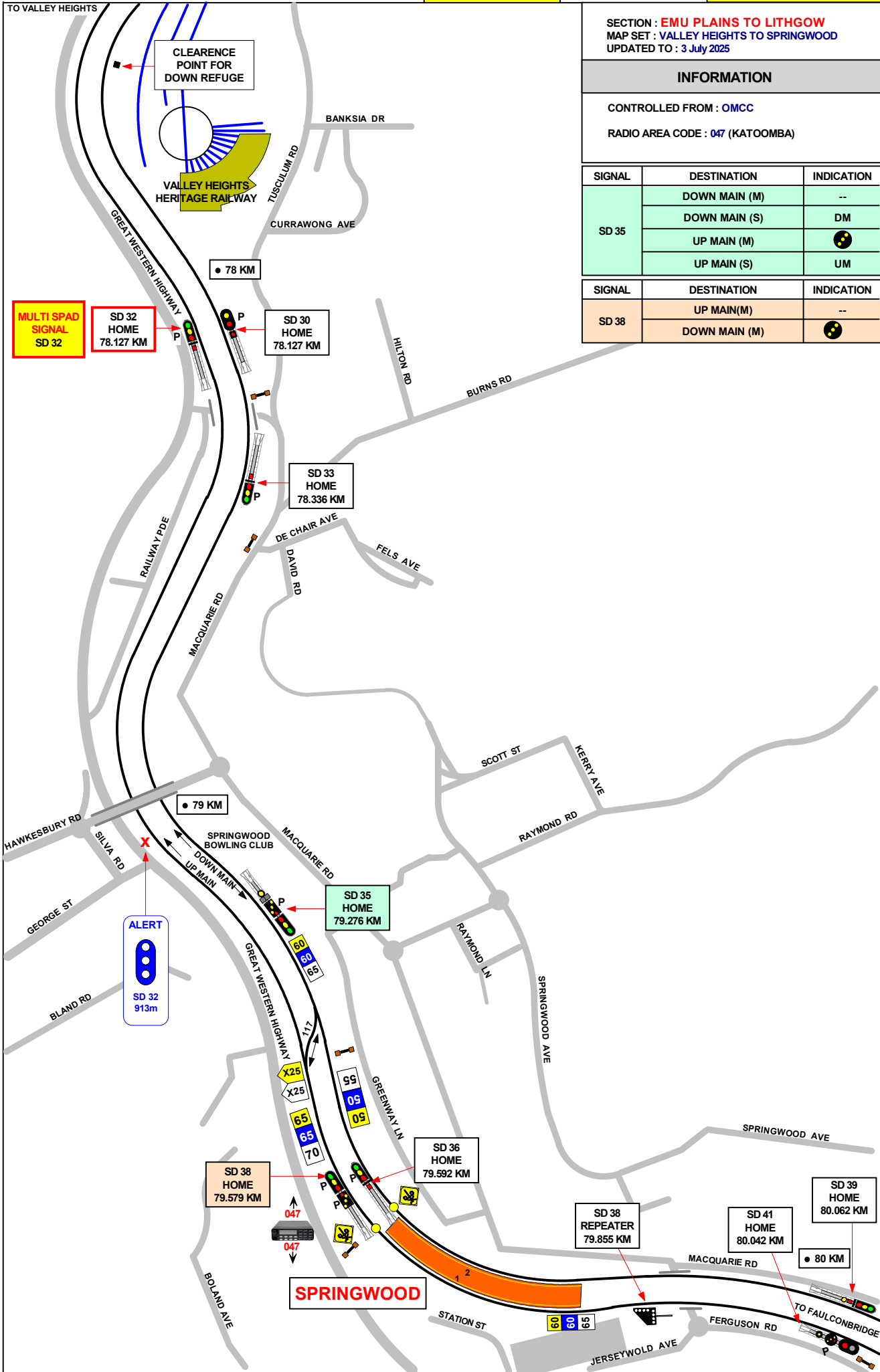
LEVEL

1 IN 33

LEVEL

1 IN 33

LEVEL



GRADIENT

LEVEL

1 IN 40

1 IN 33

1 IN 66

1 IN 33

1 IN 31

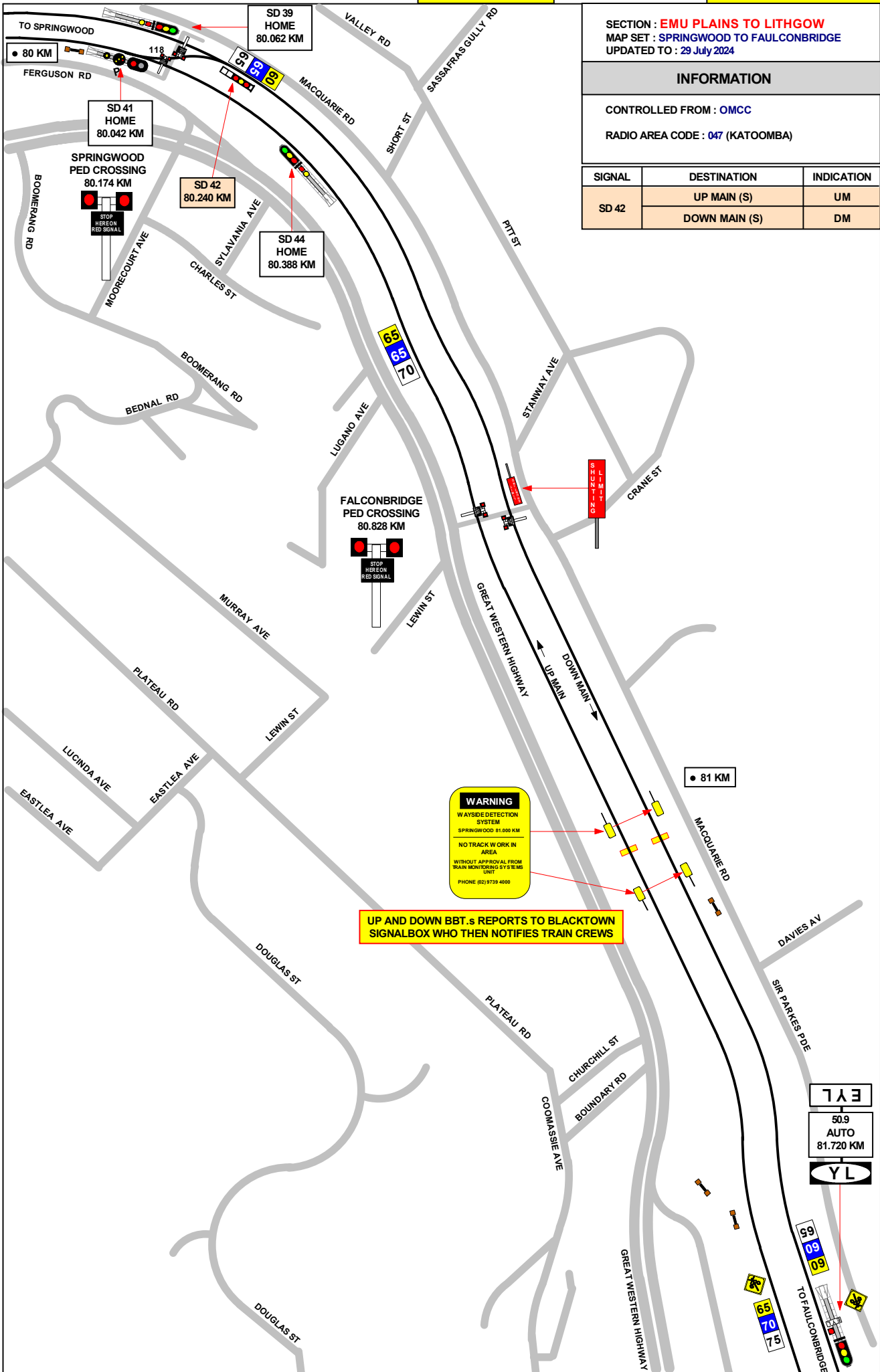
SECTION : EMU PLAINS TO LITHGOW
MAP SET : SPRINGWOOD TO FAULCONBRIDGE
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

SIGNAL	DESTINATION	INDICATION
SD 42	UP MAIN (S)	UM
	DOWN MAIN (S)	DM



UP AND DOWN BBT.s REPORTS TO BLACKTOWN SIGNALBOX WHO THEN NOTIFIES TRAIN CREWS

SECTION : EMU PLAINS TO LITHGOW
MAP SET : SPRINGWOOD TO FAULCONBRIDGE
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

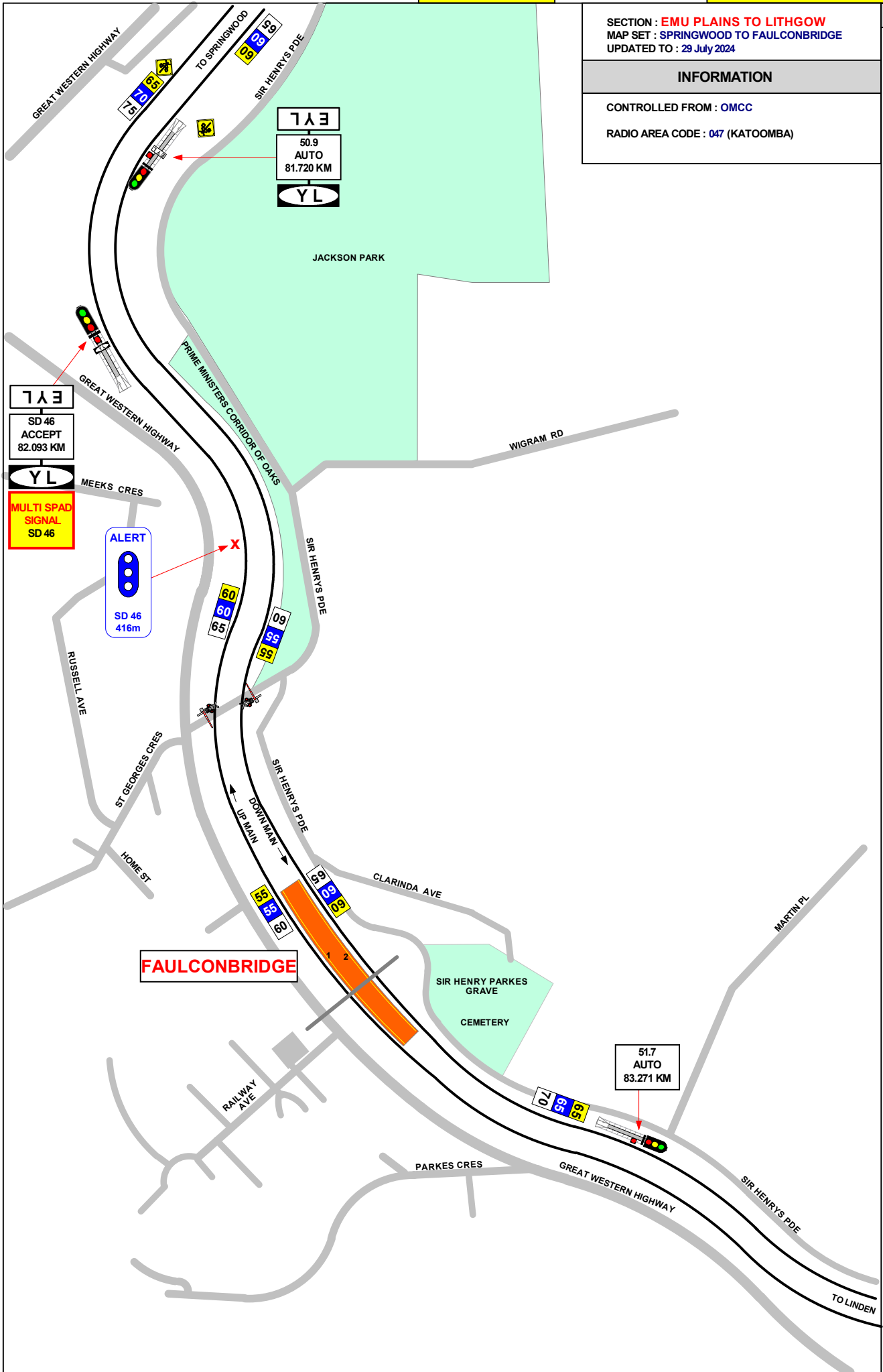
GRADIENT

1 IN 31

1 IN 33

LEVEL

1 IN 31



SECTION : **EMU PLAINS TO LITHGOW**
 MAP SET : **FAULCONBRIDGE TO LINDEN**
 UPDATED TO : **29 July 2024**

INFORMATION

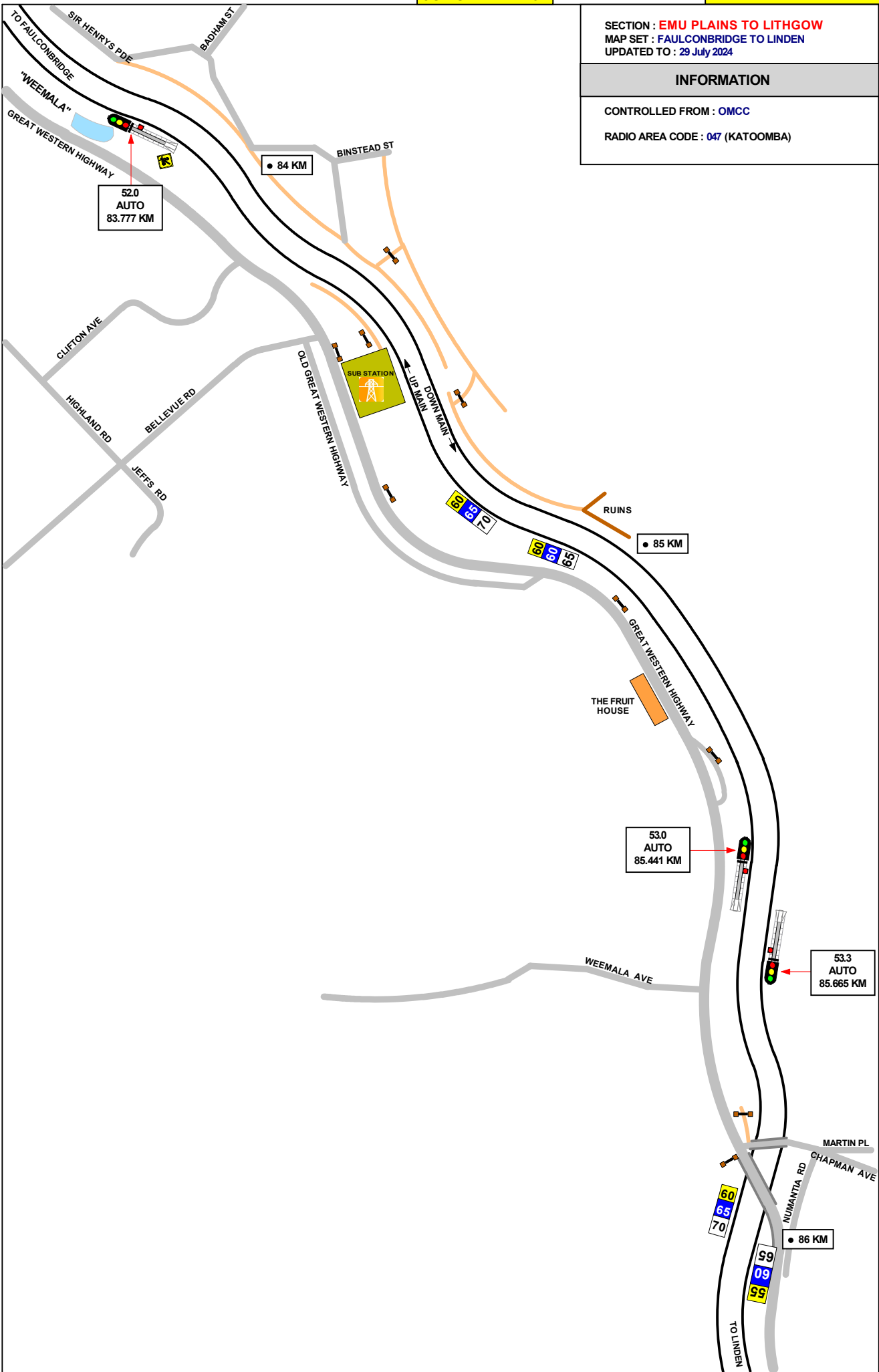
CONTROLLED FROM : **OMCC**
 RADIO AREA CODE : **047 (KATOOMBA)**

GRADIENT

1 IN 31

1 IN 33

1 IN 31



SECTION : EMU PLAINS TO LITHGOW
MAP SET : LINDEN TO WOODFORD
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

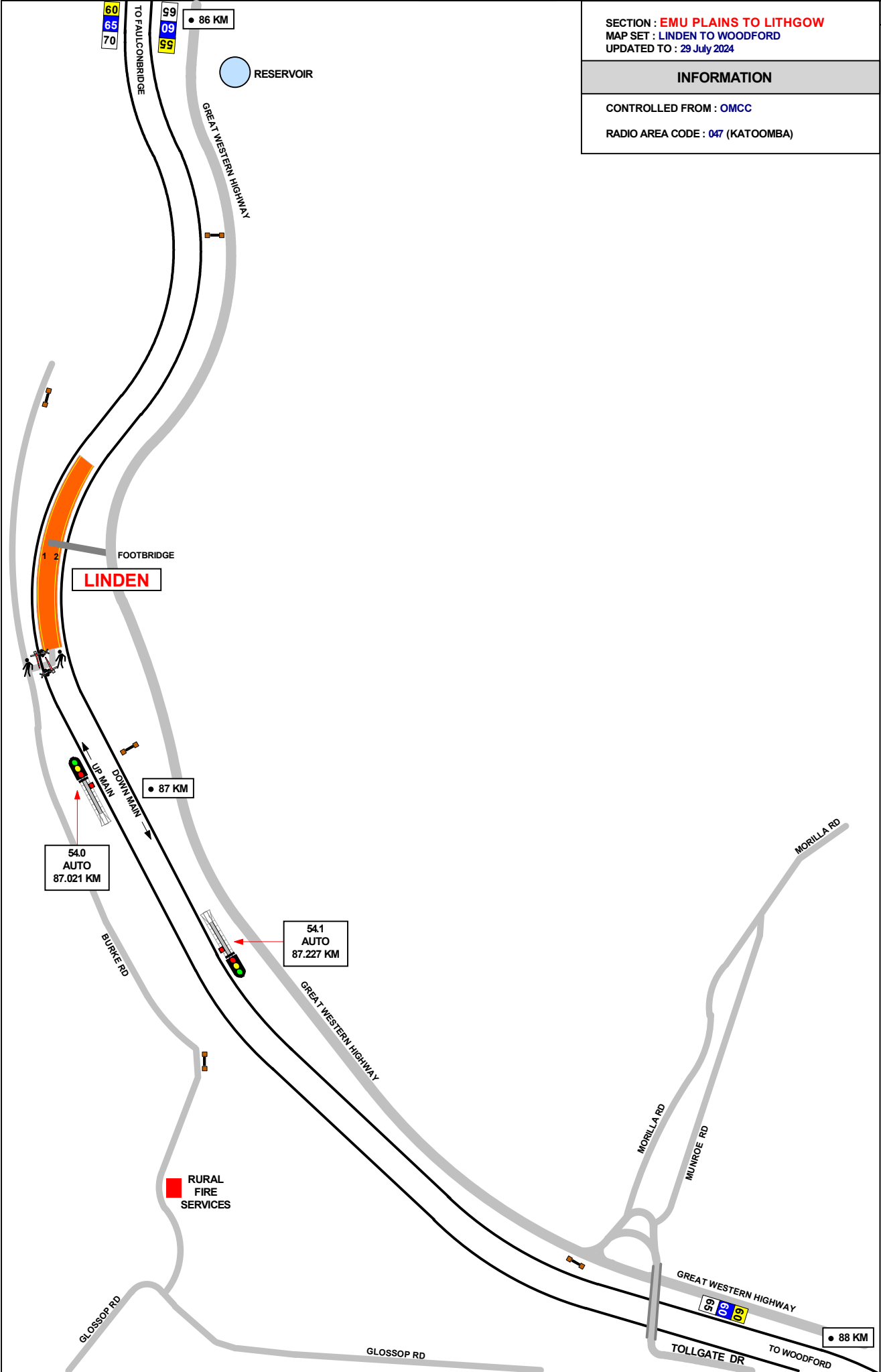
GRADIENT

1 IN 31

1 IN 33

1 IN 264

1 IN 33



SECTION : EMU PLAINS TO LITHGOW
MAP SET : LINDEN TO WOODFORD
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

GRADIENT

1 IN 33

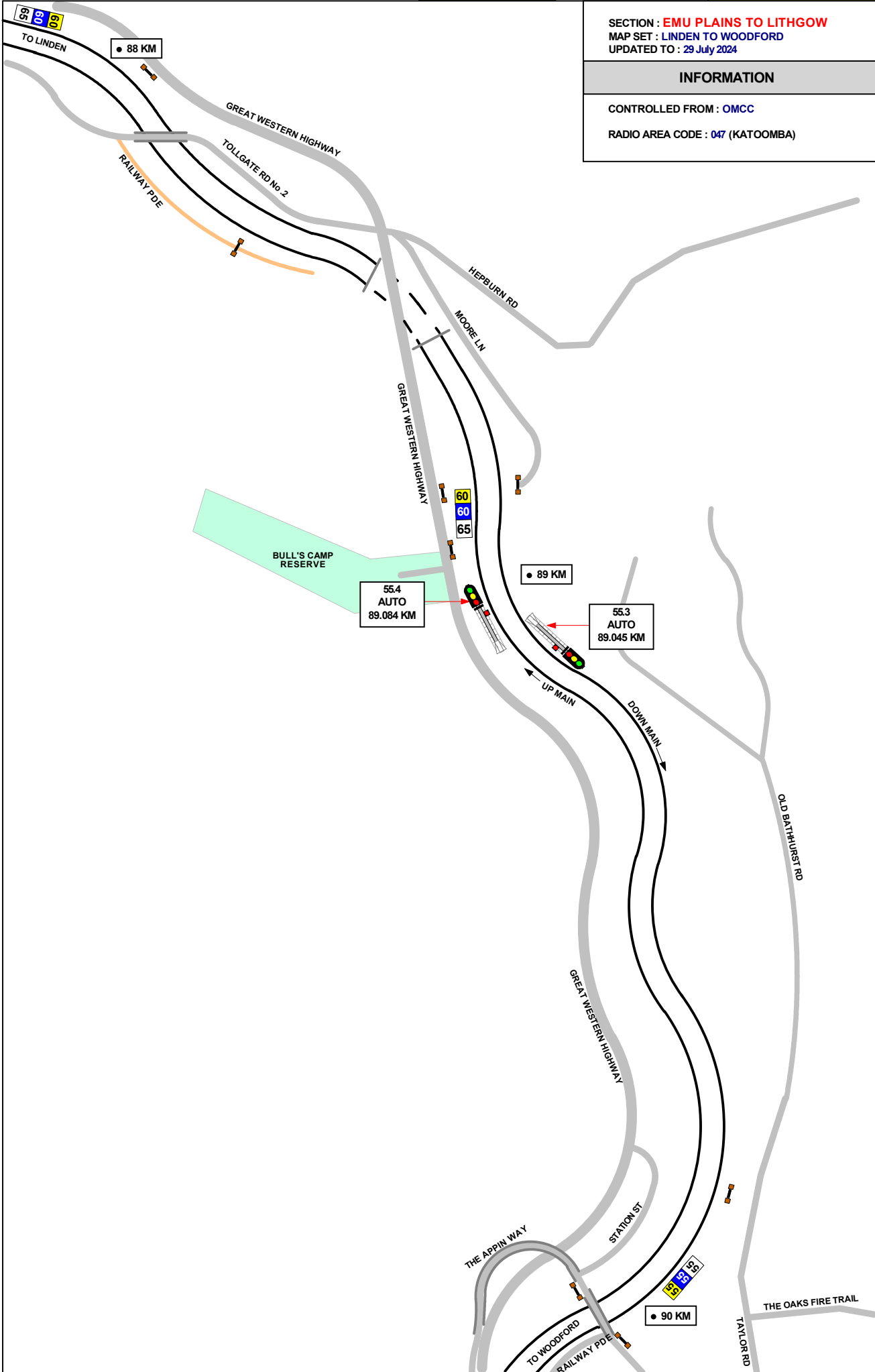
1 IN 40

1 IN 66

1 IN 51

1 IN 50

1 IN 54



GRADIENT

1 IN 54

1 IN 33

1 IN 48

LEVEL

WOODFORD

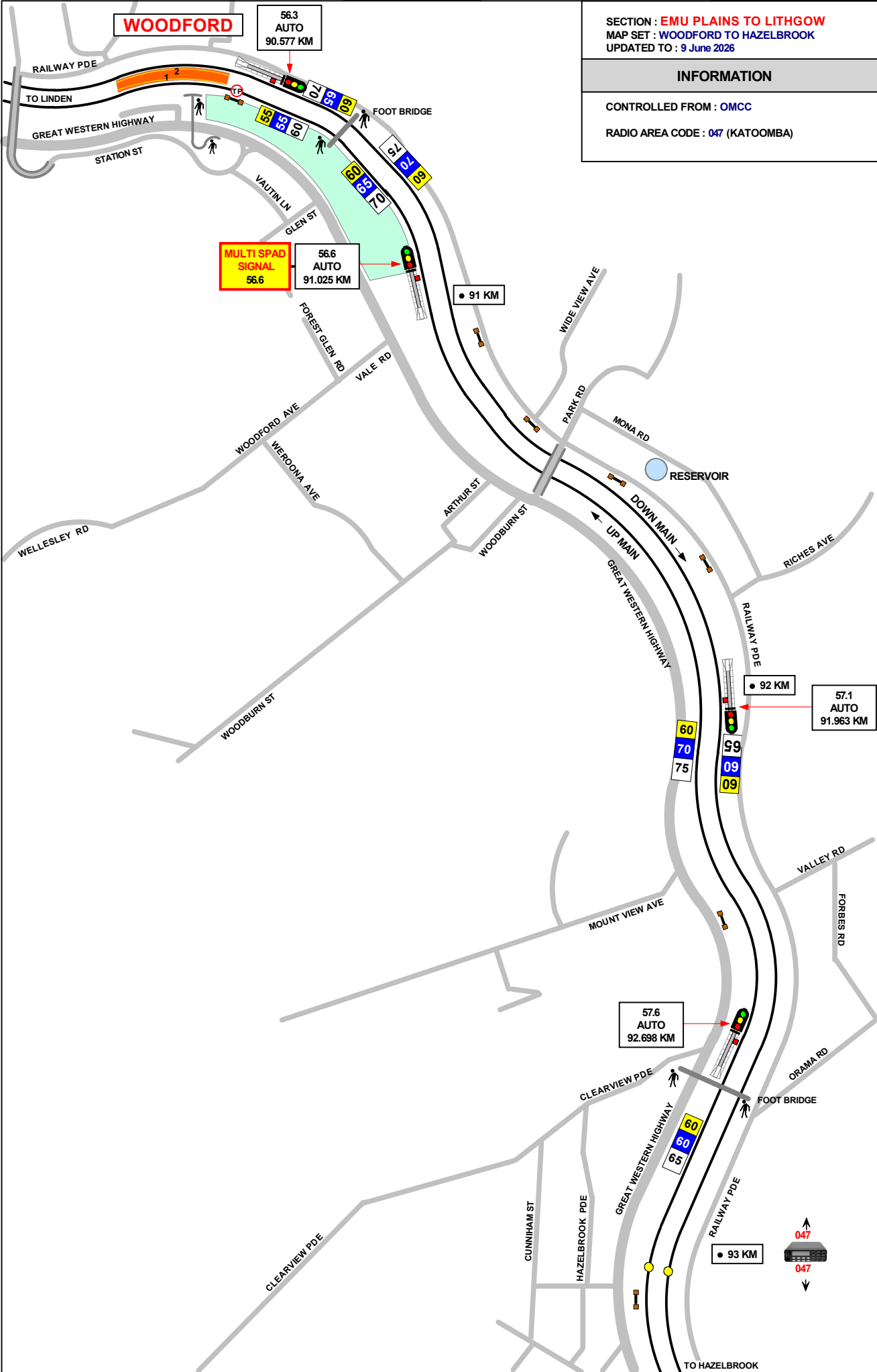
56.3
AUTO
90.577 KM

SECTION : EMU PLAINS TO LITHGOW
MAP SET : WOODFORD TO HAZELBROOK
UPDATED TO : 9 June 2026

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)



GRADIENT

LEVEL

1 IN 66

1 IN 33

1 IN 32

LEVEL

SECTION : EMU PLAINS TO LITHGOW
MAP SET : HAZELBROOK TO LAWSON
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

58.1 AUTO
93.331 KM
TONNAGE

TONNAGE SIGNAL
TRAINS OVER THE
PRESCRIBED LOAD
MUST NOT PASS THIS
SIGNAL UNTIL SHOWING
FULL CLEAR

HAZELBROOK

94 KM

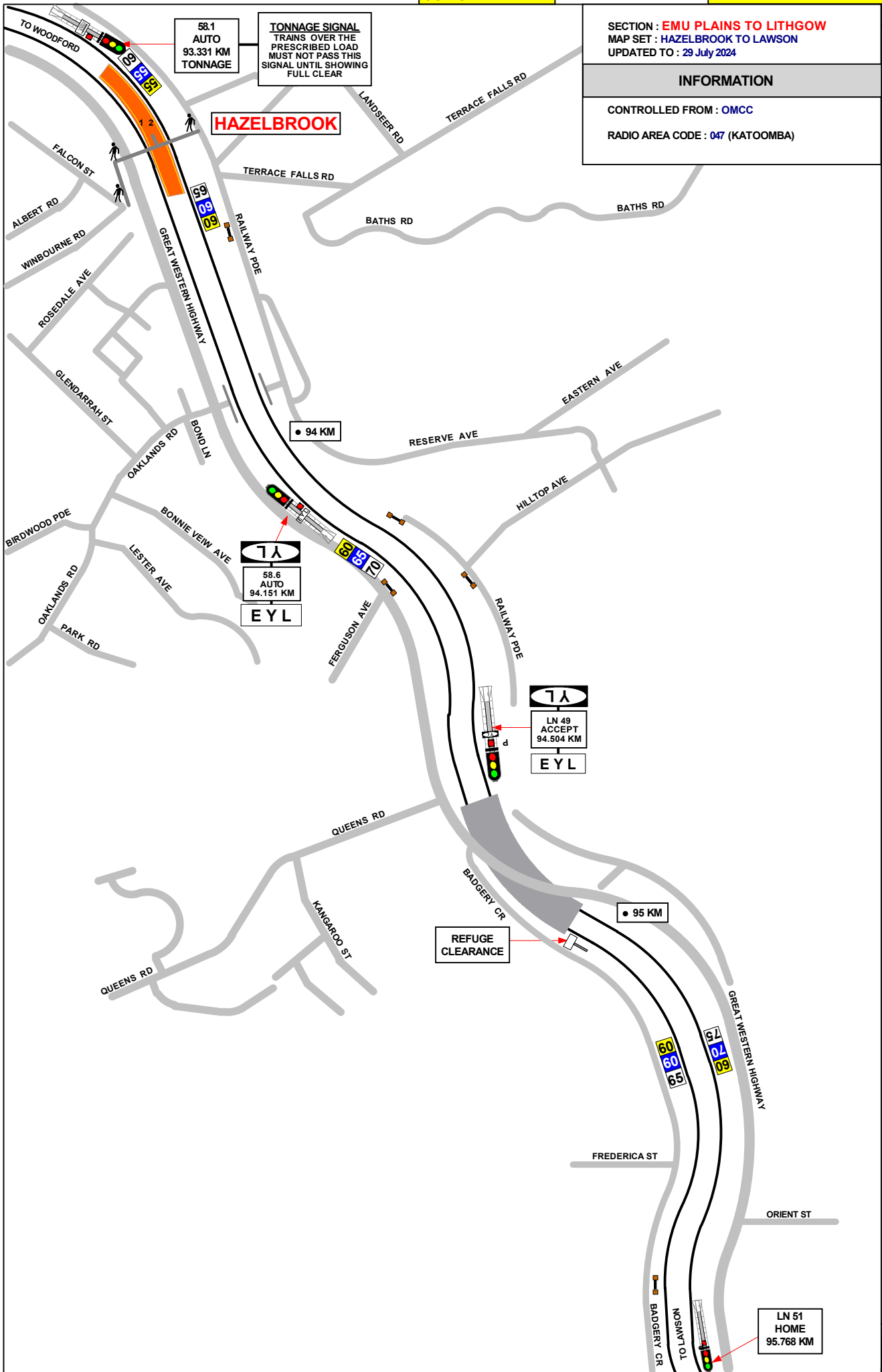
58.6 AUTO
94.151 KM
EYL

LN 49
ACCEPT
94.504 KM
EYL

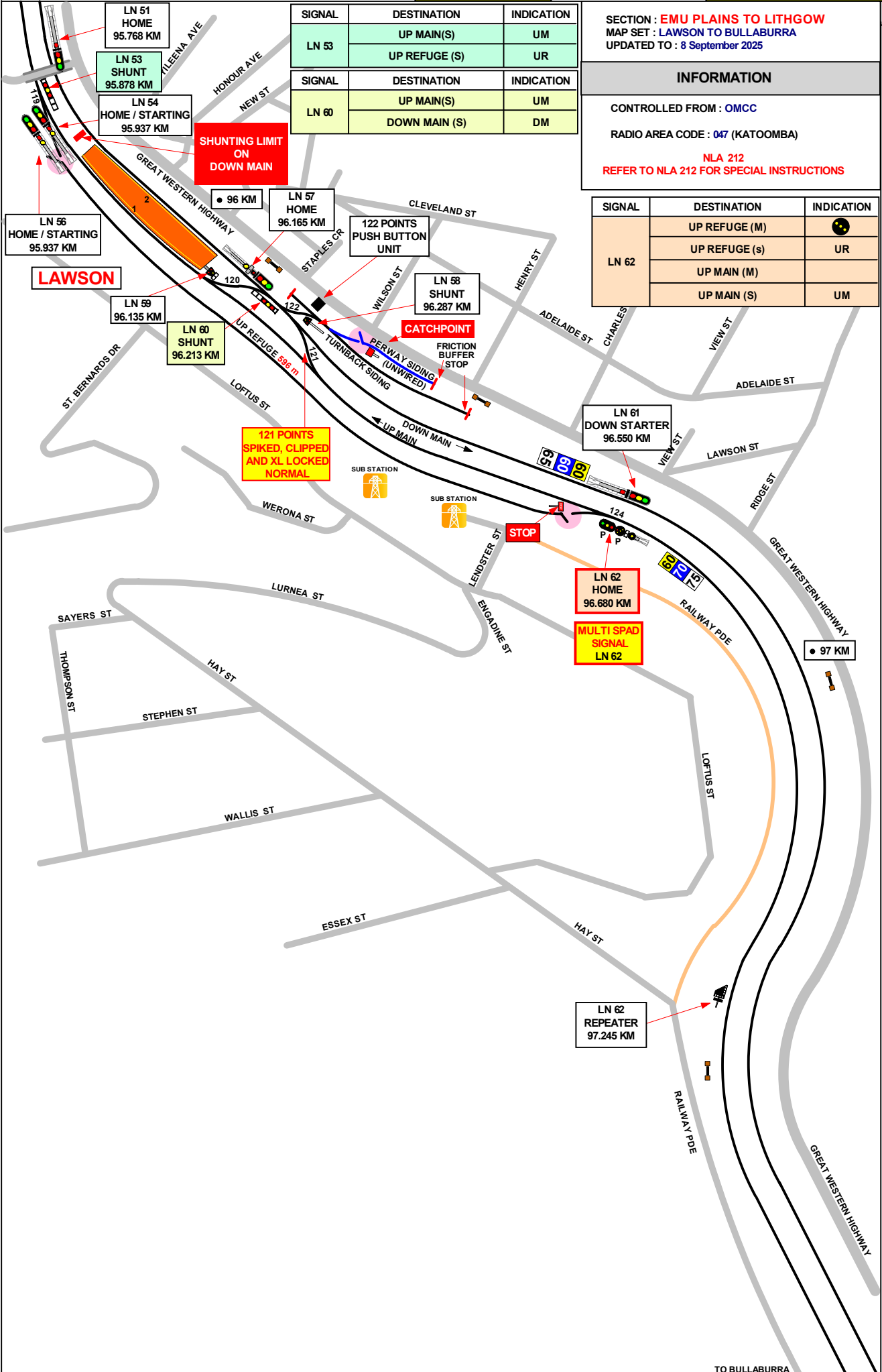
95 KM

REFUGE
CLEARANCE

LN 51
HOME
95.768 KM



TO HAZELBROOK



SIGNAL	DESTINATION	INDICATION
LN 53	UP MAIN(S)	UM
LN 53	UP REFUGE(S)	UR
SIGNAL	DESTINATION	INDICATION
LN 60	UP MAIN(S)	UM
LN 60	DOWN MAIN(S)	DM

SECTION : EMU PLAINS TO LITHGOW
MAP SET : LAWSON TO BULLABURRA
 UPDATED TO : 8 September 2025

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

NLA 212
 REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
LN 62	UP REFUGE (M)	M
	UP REFUGE (S)	UR
	UP MAIN (M)	M
	UP MAIN (S)	UM

GRADIENT

LEVEL

1 IN 33

1 IN 66

TO BULLABURRA

GRADIENT

SECTION : EMU PLAINS TO LITHGOW
MAP SET : BULLABURRA TO WENTWORTH FALLS
UPDATED TO : 8 September 2025

INFORMATION

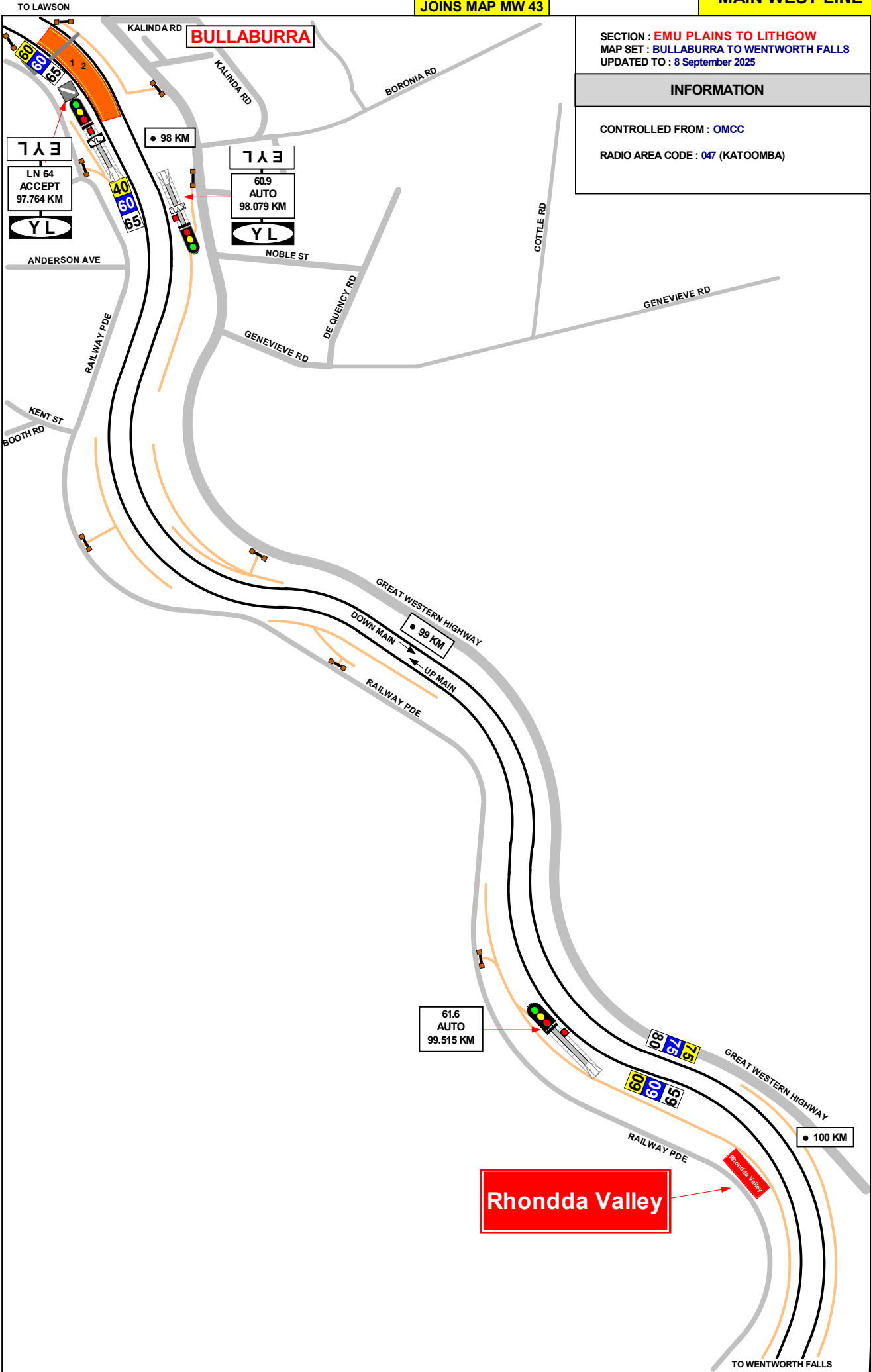
CONTROLLED FROM : OMCC
RADIO AREA CODE : 047 (KATOOMBA)

1 IN 66

1 IN 57

1 IN 40

1 IN 33



SECTION : EMU PLAINS TO LITHGOW
MAP SET : BULLABURRA TO WENTWORTH FALLS
UPDATED TO : 8 September 2025

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

GRADIENT

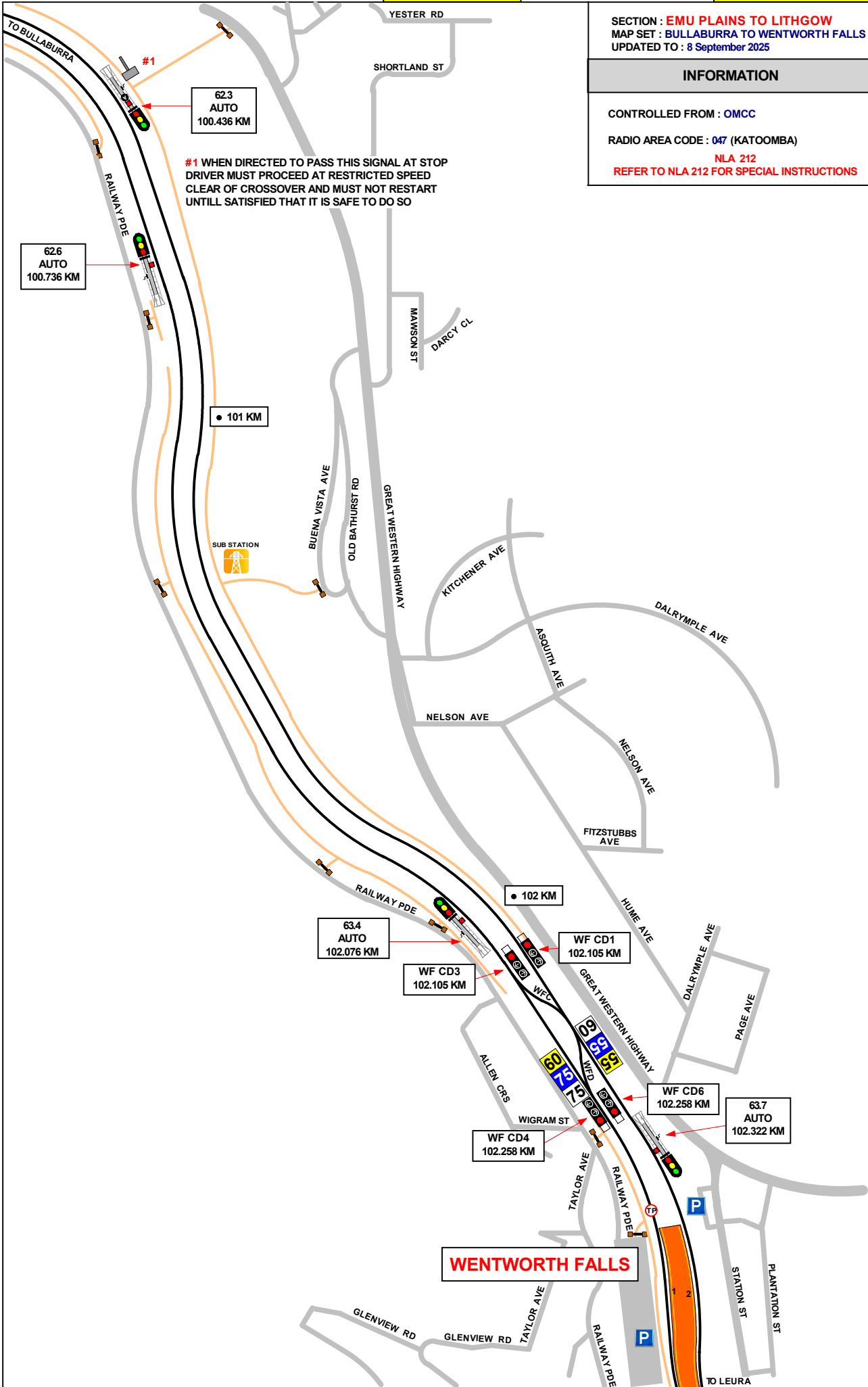
1 IN 33

1 IN 73

LEVEL

1 IN 330

LEVEL



SECTION : EMU PLAINS TO LITHGOW
MAP SET : WENTWORTH FALLS TO LEURA
UPDATED TO : 8 September 2025

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

GRADIENT

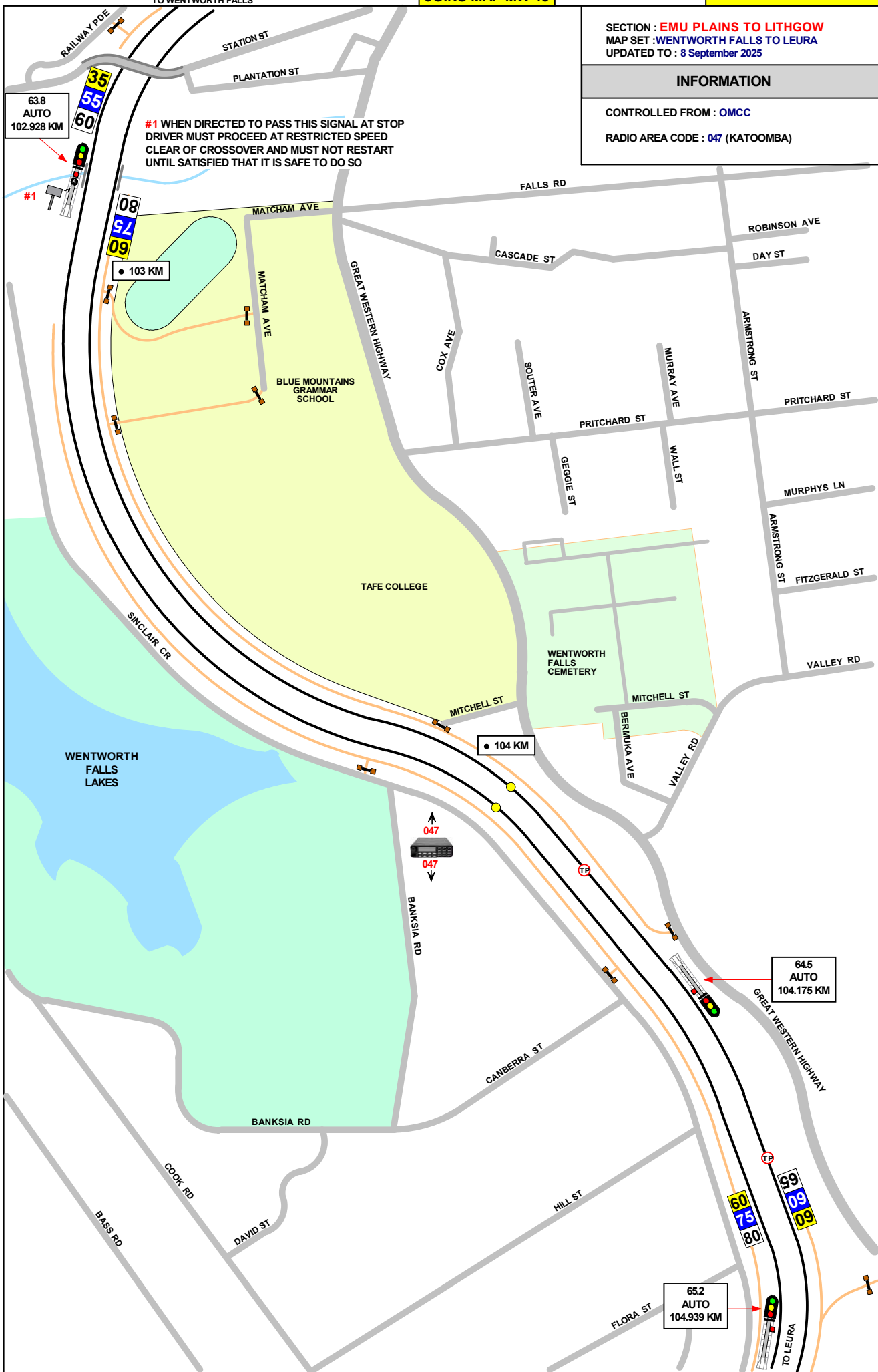
LEVEL

1 IN 66

1 IN 33

1 IN 66

1 IN 33



SECTION : EMU PLAINS TO LITHGOW
MAP SET : WENTWORTH FALLS TO LEURA
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

GRADIENT

1 IN 33

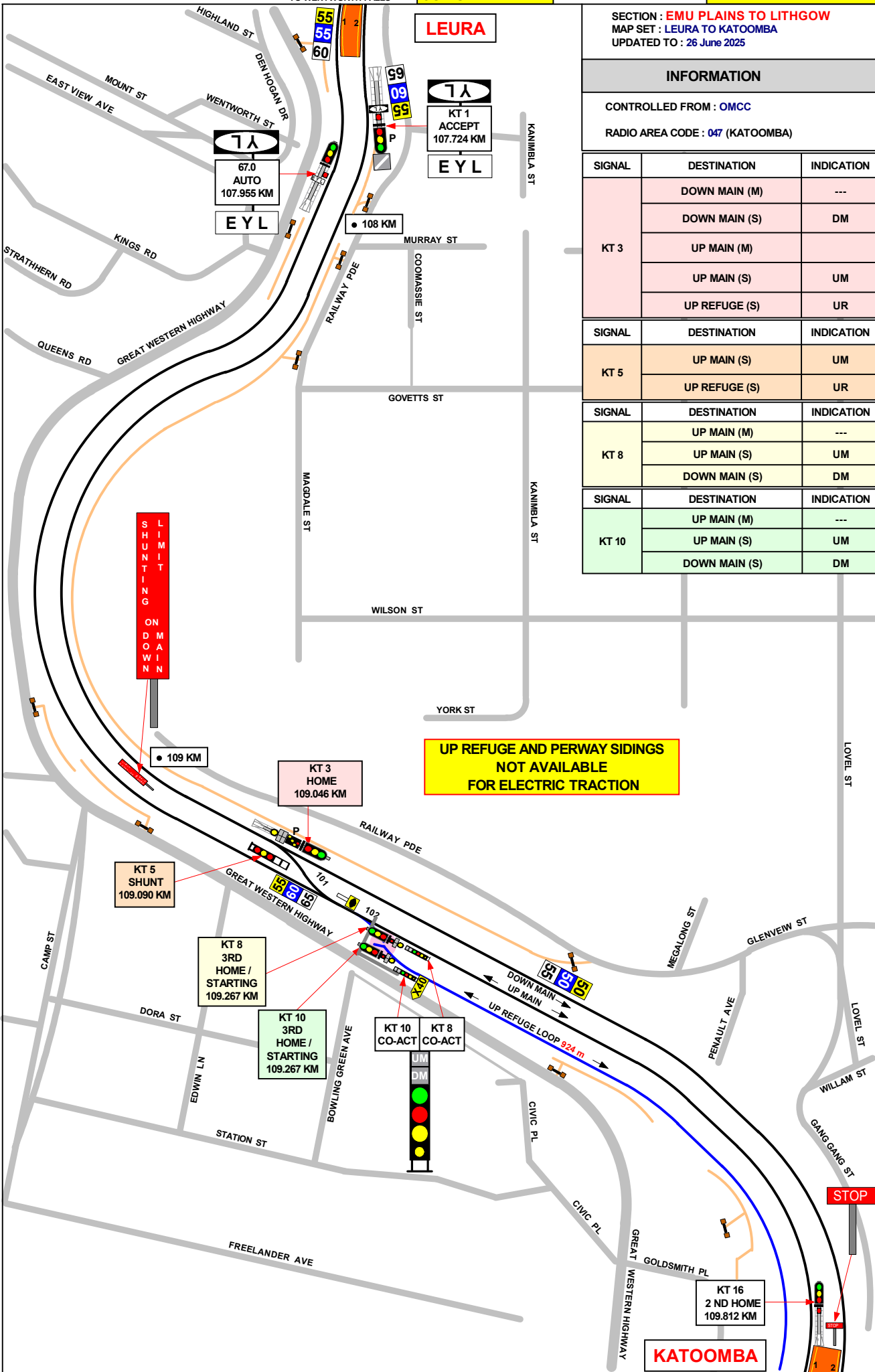
LEVEL

1 IN 33



TO WENTWORTH FALLS

JOINS MAP MW 47



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : LEURA TO KATOOMBA
 UPDATED TO : 26 June 2025

GRADIENT

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

SIGNAL	DESTINATION	INDICATION
KT 3	DOWN MAIN (M)	---
	DOWN MAIN (S)	DM
	UP MAIN (M)	
	UP MAIN (S)	UM
	UP REFUGE (S)	UR
KT 5	UP MAIN (S)	UM
	UP REFUGE (S)	UR
KT 8	UP MAIN (M)	---
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
KT 10	UP MAIN (M)	---
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

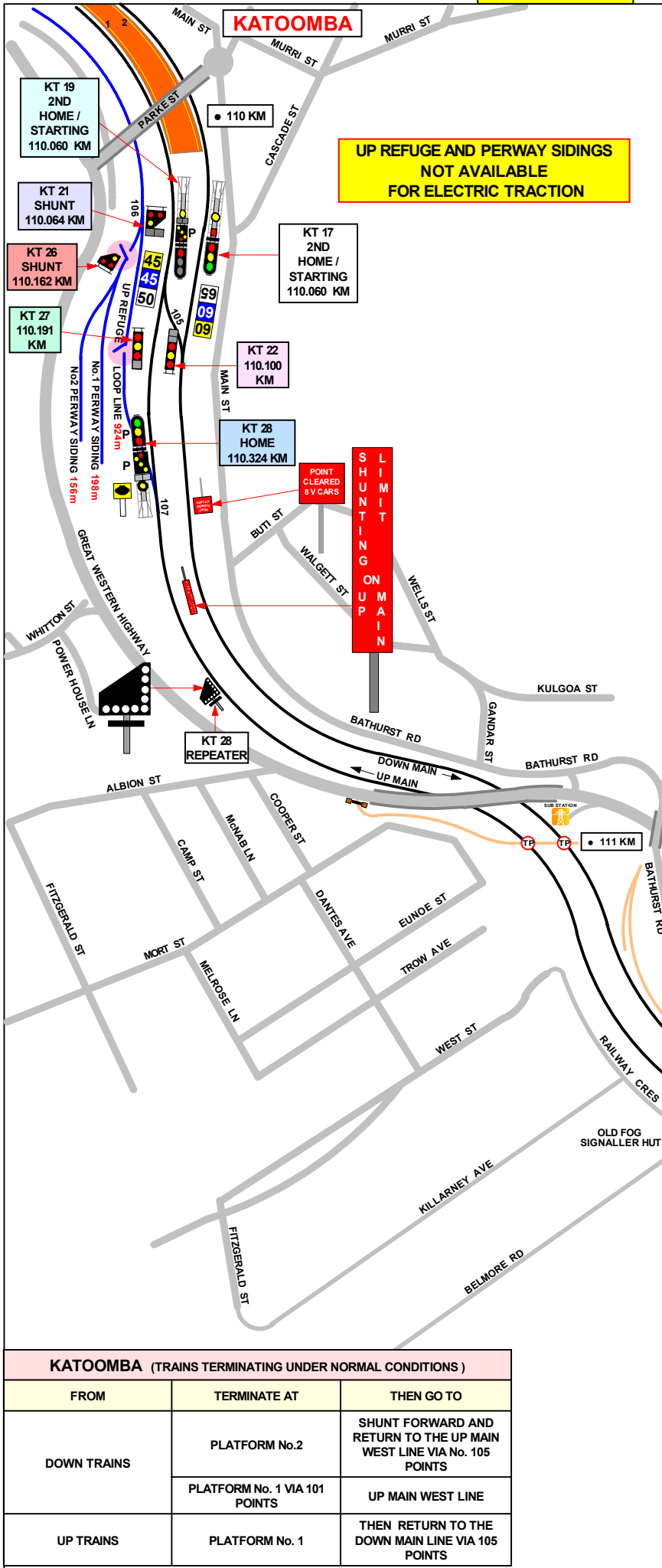
1 IN 33

LEVEL

UP REFUGE AND PERWAY SIDINGS
 NOT AVAILABLE
 FOR ELECTRIC TRACTION

JOINS MAP MW 49

TO KATOOMBA



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : KATOOMBA TO MEDLOW BATH
 UPDATED TO : 23 June 2025

GRADIENT

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

NLA 214
 REFER TO NLA 214 FOR MORE INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
KT 19	DOWN MAIN (M)	
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM
KT 21	UP REFUGE (S)	UR
	PERWAY SIDING (S)	PS
KT 22	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
KT 26	UP REFUGE(S)	---
	UP MAIN (S)	UM
KT 28	UP REFUGE (M)	
	UP REFUGE (S)	UR
	UP MAIN (S)	UM

LEVEL

1 IN 100

LEVEL

1 IN 132

LEVEL

KATOOMBA (TRAINS TERMINATING UNDER NORMAL CONDITIONS)

FROM	TERMINATE AT	THEN GO TO
DOWN TRAINS	PLATFORM No.2	SHUNT FORWARD AND RETURN TO THE UP MAIN WEST LINE VIA No. 105 POINTS
	PLATFORM No. 1 VIA 101 POINTS	UP MAIN WEST LINE
UP TRAINS	PLATFORM No. 1	THEN RETURN TO THE DOWN MAIN LINE VIA 105 POINTS

SECTION : EMU PLAINS TO LITHGOW
MAP SET : KATOOMBA TO MEDLOW BATH
UPDATED TO : 29 July 2024

GRADIENT

INFORMATION

CONTROLLED FROM : OMCC
RADIO AREA CODE : 047 (KATOOMBA)
048 (MT VICTORIA)

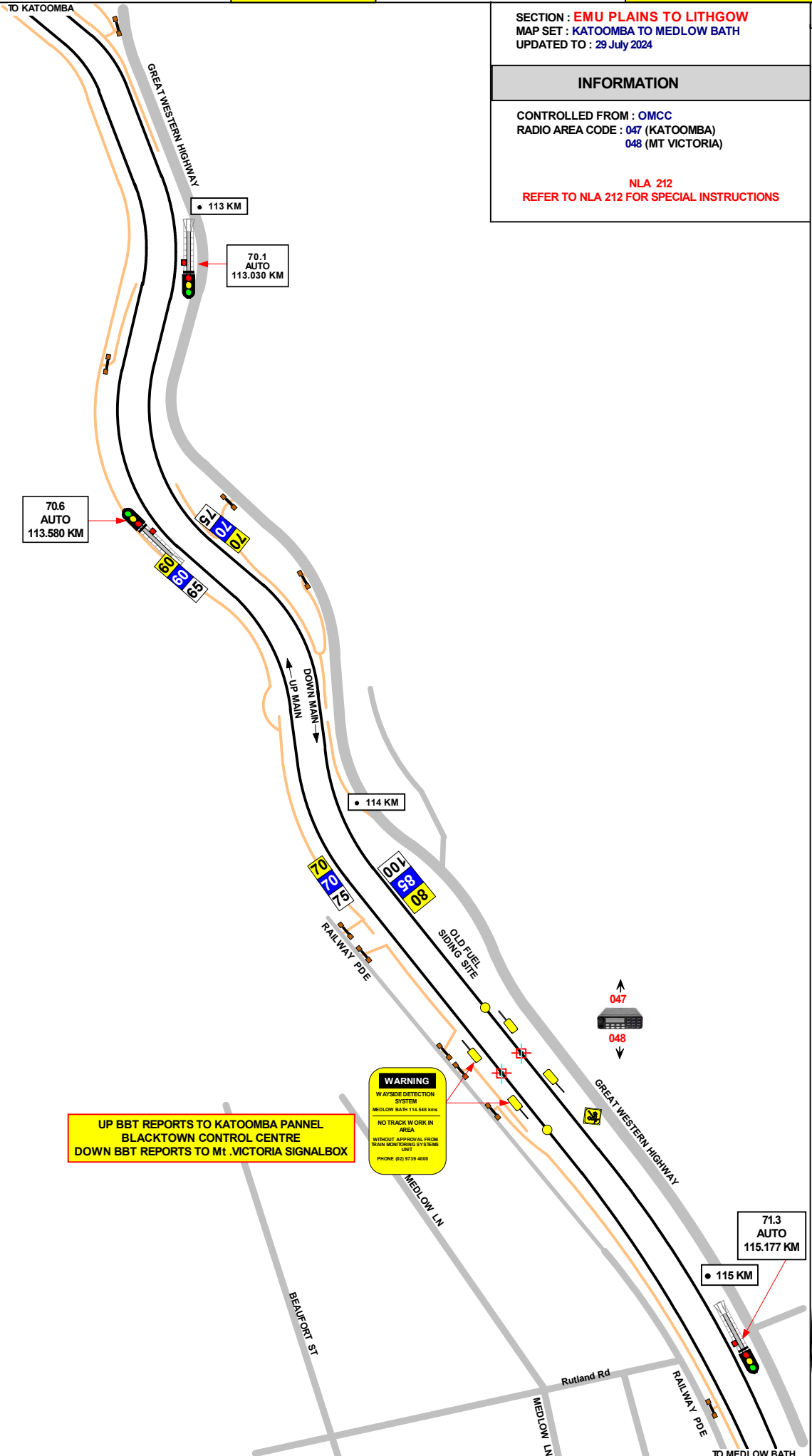
NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

1 IN 132

LEVEL

1 IN 66

1 IN 264



UP BBT REPORTS TO KATOOMBA PANNEL
BLACKTOWN CONTROL CENTRE
DOWN BBT REPORTS TO Mt .VICTORIA SIGNALBOX

WARNING
WAYSIDE DETECTION SYSTEM
MEDLOW BATH 114.540 kms
NO TRACK WORK IN AREA
WITHOUT APPROVAL FROM TRAIN MONITORING SYSTEMS UNIT
PHONE 022 9739 4000

SECTION : EMU PLAINS TO LITHGOW
MAP SET : MEDLOW BATH TO BLACKHEATH
UPDATED TO : 18 March 2026

GRADIENT

INFORMATION

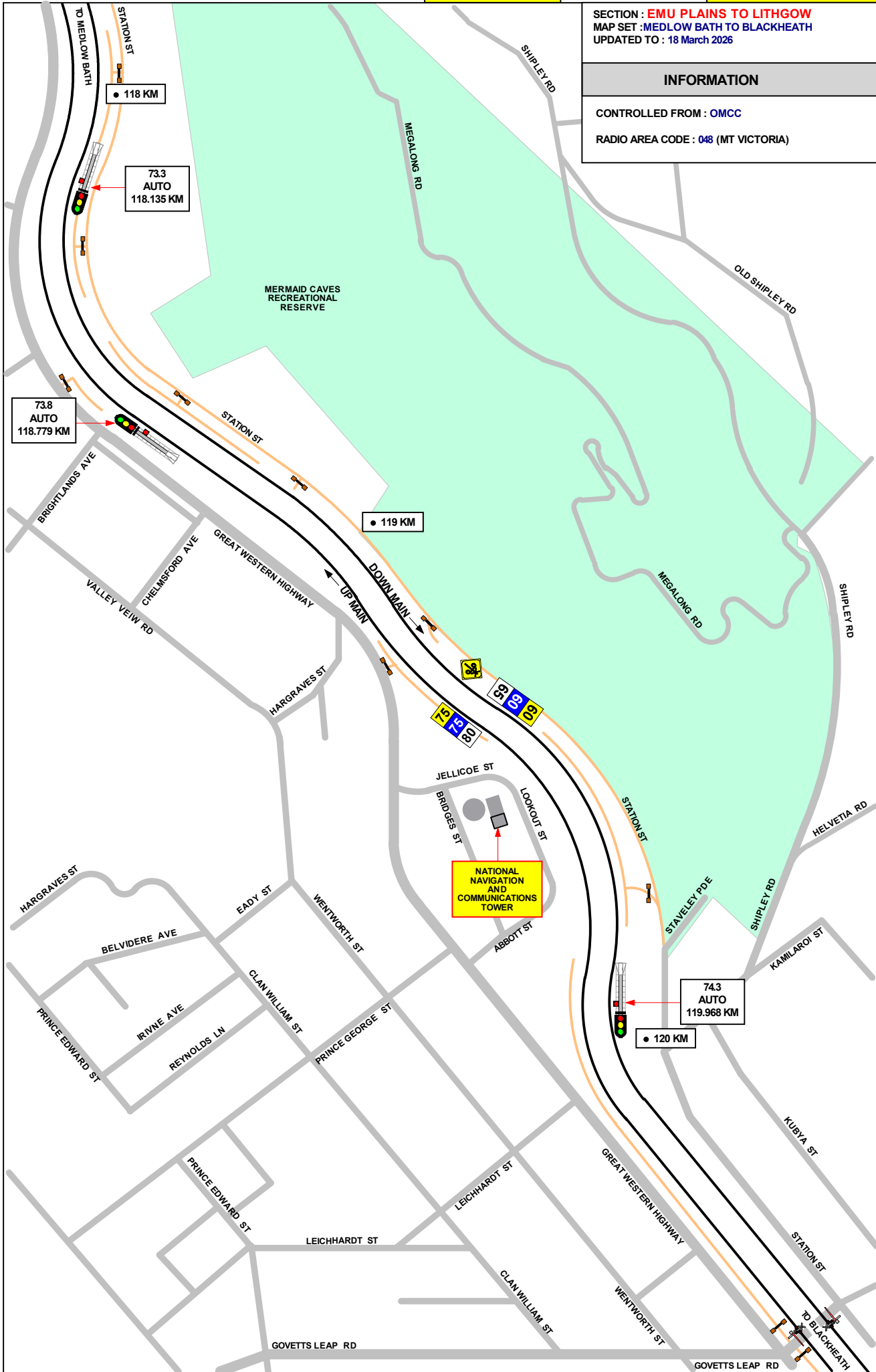
CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

LEVEL

1 IN 60

LEVEL

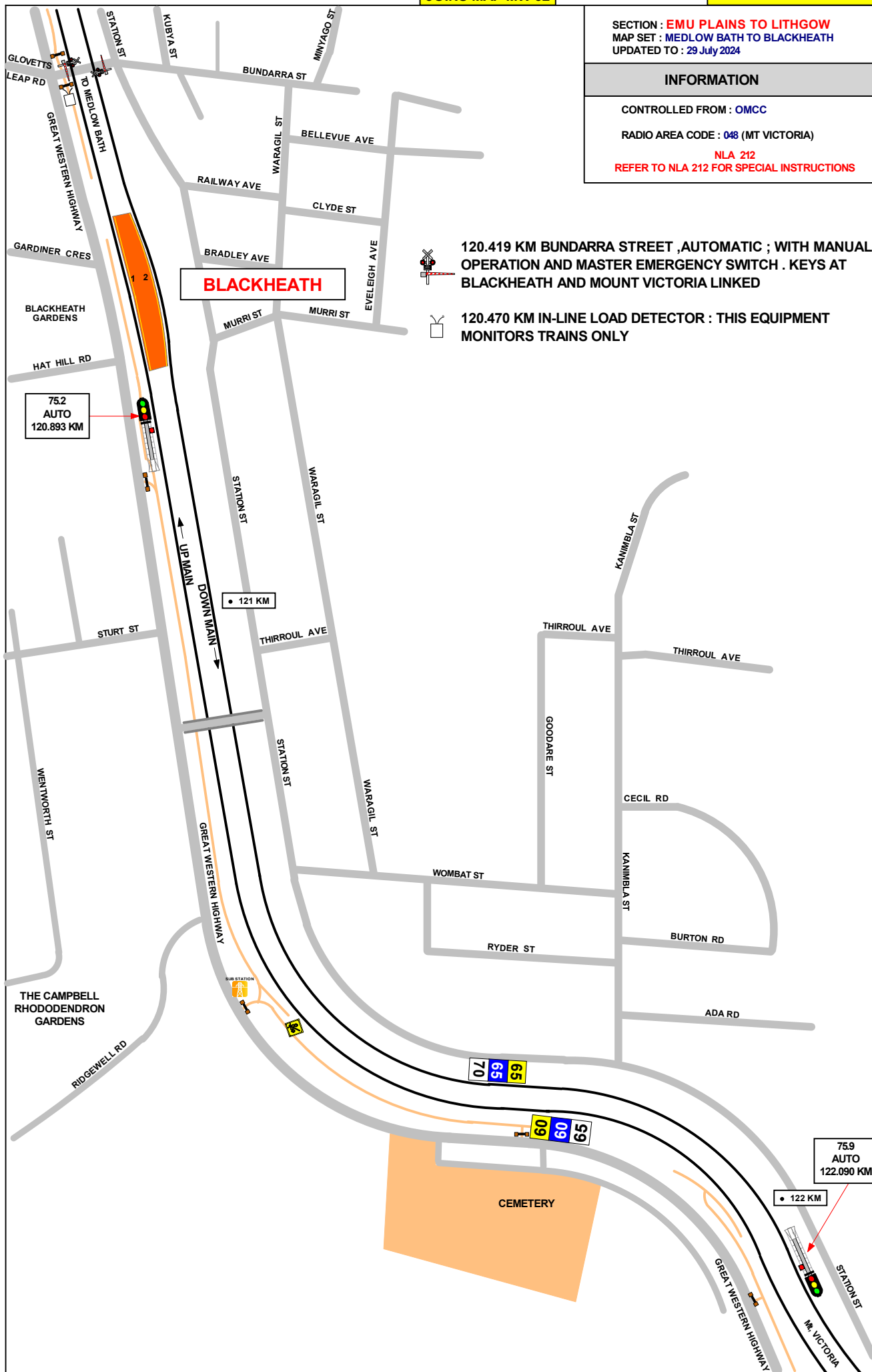


SECTION : EMU PLAINS TO LITHGOW
MAP SET : MEDLOW BATH TO BLACKHEATH
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC
RADIO AREA CODE : 048 (MT VICTORIA)
NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

GRADIENT



BLACKHEATH



120.419 KM BUNDARRA STREET ,AUTOMATIC ; WITH MANUAL OPERATION AND MASTER EMERGENCY SWITCH . KEYS AT BLACKHEATH AND MOUNT VICTORIA LINKED



120.470 KM IN-LINE LOAD DETECTOR : THIS EQUIPMENT MONITORS TRAINS ONLY

75.2
AUTO
120.893 KM

75.9
AUTO
122.090 KM

LEVEL

1 IN 200

SECTION : EMU PLAINS TO LITHGOW
MAP SET : BLACKHEATH TO MT VICTORIA
UPDATED TO : 29 July 2024

INFORMATION

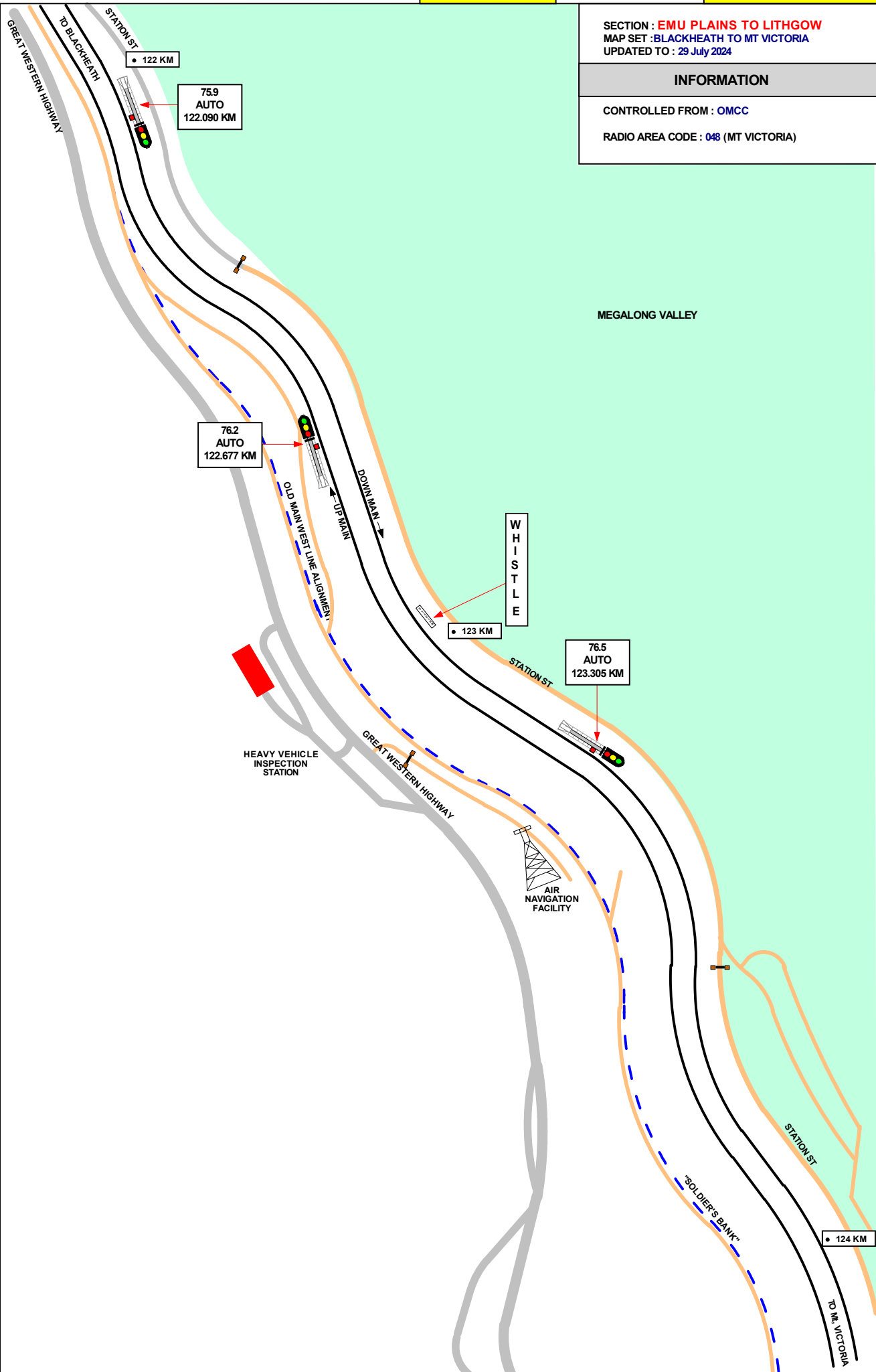
CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

GRADIENT

1 IN 200

1 IN 80



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : BLACKHEATH TO MT VICTORIA
 UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

SIGNAL	DESTINATION	IND
3	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM
	UP MAIN (M)	BOL
	UP MAIN (S)	UM

SIGNAL	DESTINATION	IND
10	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

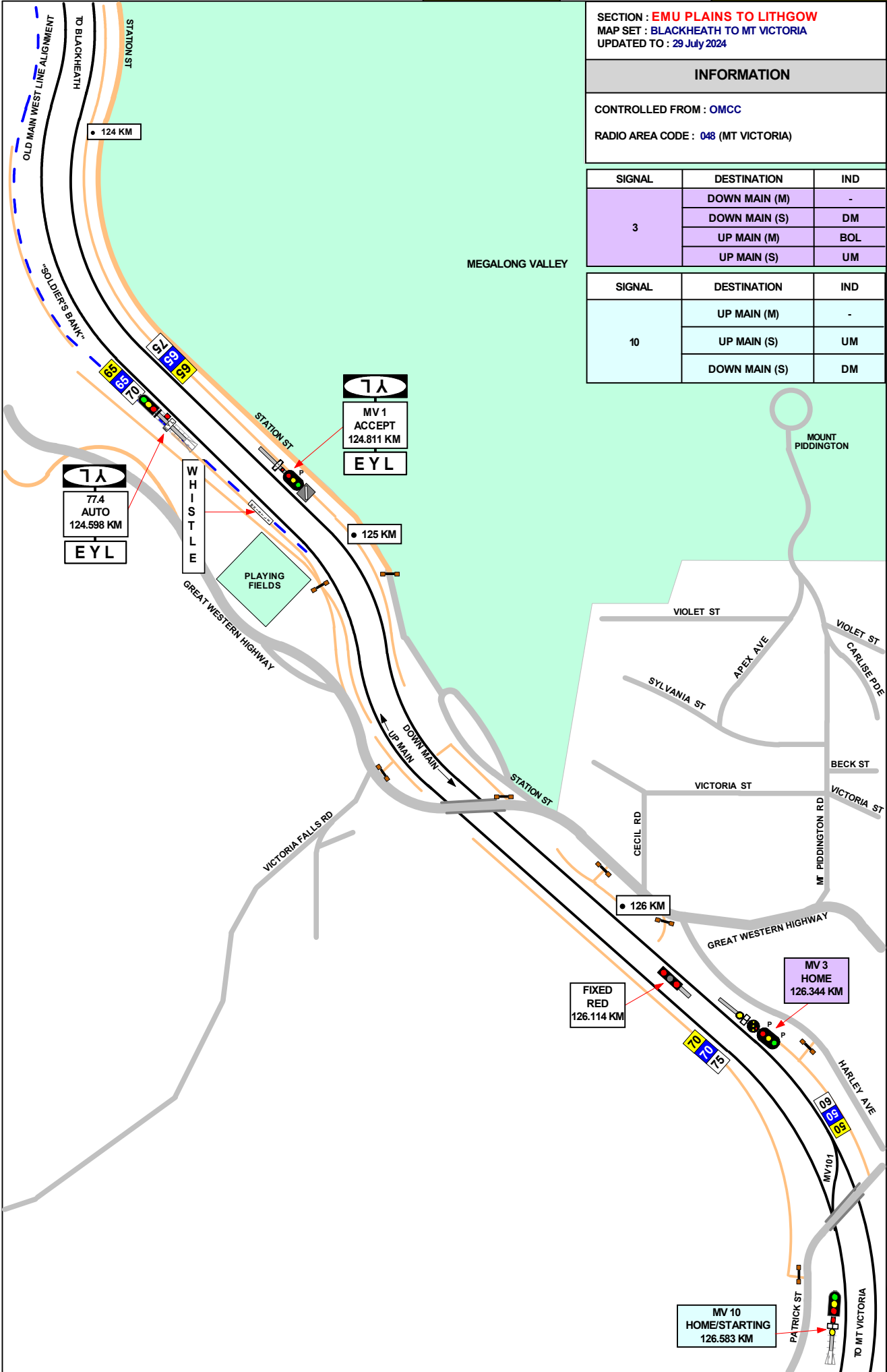
GRADIENT

1 IN 80

LEVEL

1 IN 66

LEVEL



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : MT VICTORIA
 UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM: OMCC
 RADIO AREA CODE : 048 (MT VICTORIA)
 NLA 216
 REFER TO NLA 216 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	IND
10	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
8	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
13	UP MAIN (M)	-
	UP MAIN (S)	UM
	No.1 UP SIDING (S)	U1
	No.2 UP SIDING (S)	U2
	No.3 UP SIDING (S)	U3
	No.4 UP SIDING (S)	U4
	No.5 UP SIDING (S)	U5

SIGNAL	DESTINATION	IND
11	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM
	No.1 UP SIDING (S)	U1
	No.2 UP SIDING (S)	U2
	No.3 UP SIDING (S)	U3
	No.4 UP SIDING (S)	U4
	No.5 UP SIDING (S)	U5

SIGNAL	DESTINATION	IND
16	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
18	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
20	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
43	DOWN MAIN (S)	-

SIGNAL	DESTINATION	IND
44	DOWN MAIN (S)	DM
	PERWAY SIDING (S)	PS

SIGNAL	DESTINATION	IND
61	DOWN MAIN (M)	-
	DOWN MAIN (S)	-

SIGNAL	DESTINATION	IND
63	DOWN MAIN (M)	BOL
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
68	UP MAIN (S)	UM
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	IND
70	UP MAIN (S)	-
	UP MAIN (S)	-

SECTION : EMU PLAINS TO LITHGOW
MAP SET : MOUNT VICTORIA TO HARTLEY VALE
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

GRADIENT

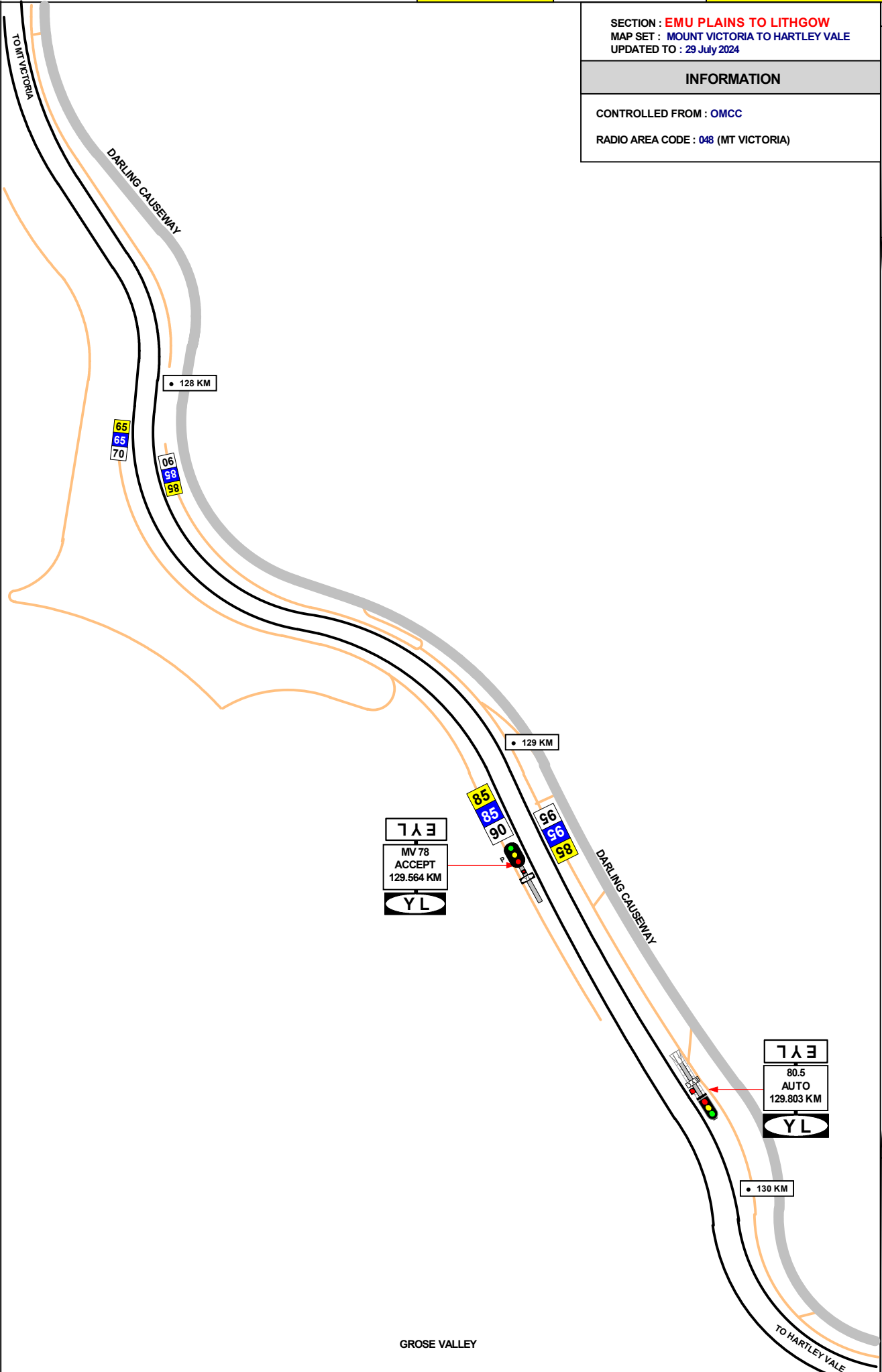
LEVEL

1 IN 99

LEVEL

1 IN 100

LEVEL



SECTION : EMU PLAINS TO LITHGOW
MAP SET : MOUNT VICTORIA TO HARTLEY VALE
UPDATED TO : 11 August 2025

GRADIENT

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

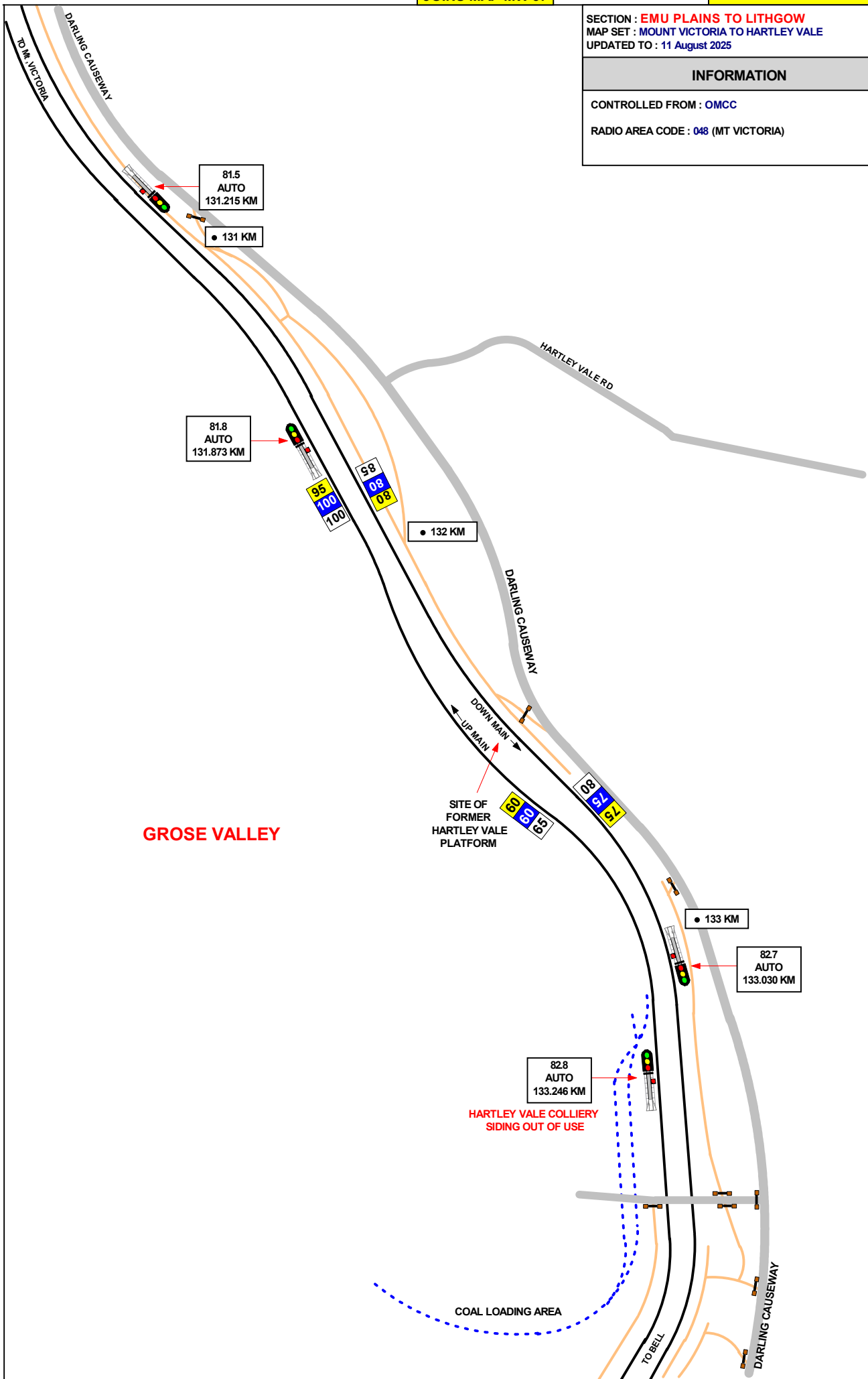
1 IN 100

1 IN 90

1 IN 109

LEVEL

1 IN 70



GROSE VALLEY

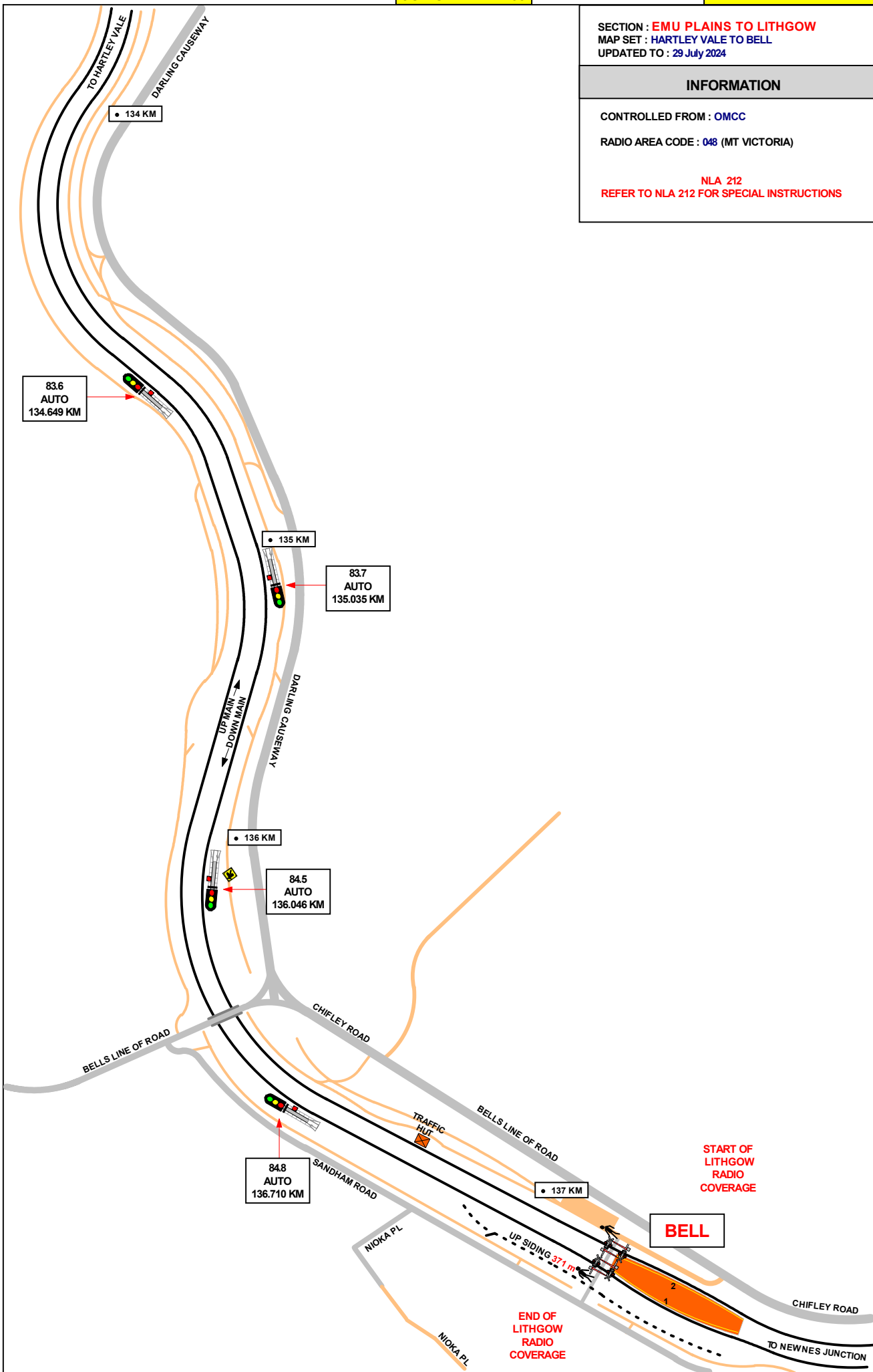
SECTION : EMU PLAINS TO LITHGOW
MAP SET : HARTLEY VALE TO BELL
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS



1 IN 70

1 IN 80

SECTION : EMU PLAINS TO LITHGOW
MAP SET : BELL TO NEWNES JUNCTION
UPDATED TO : 11 August 2025

INFORMATION

CONTROLLED FROM: OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

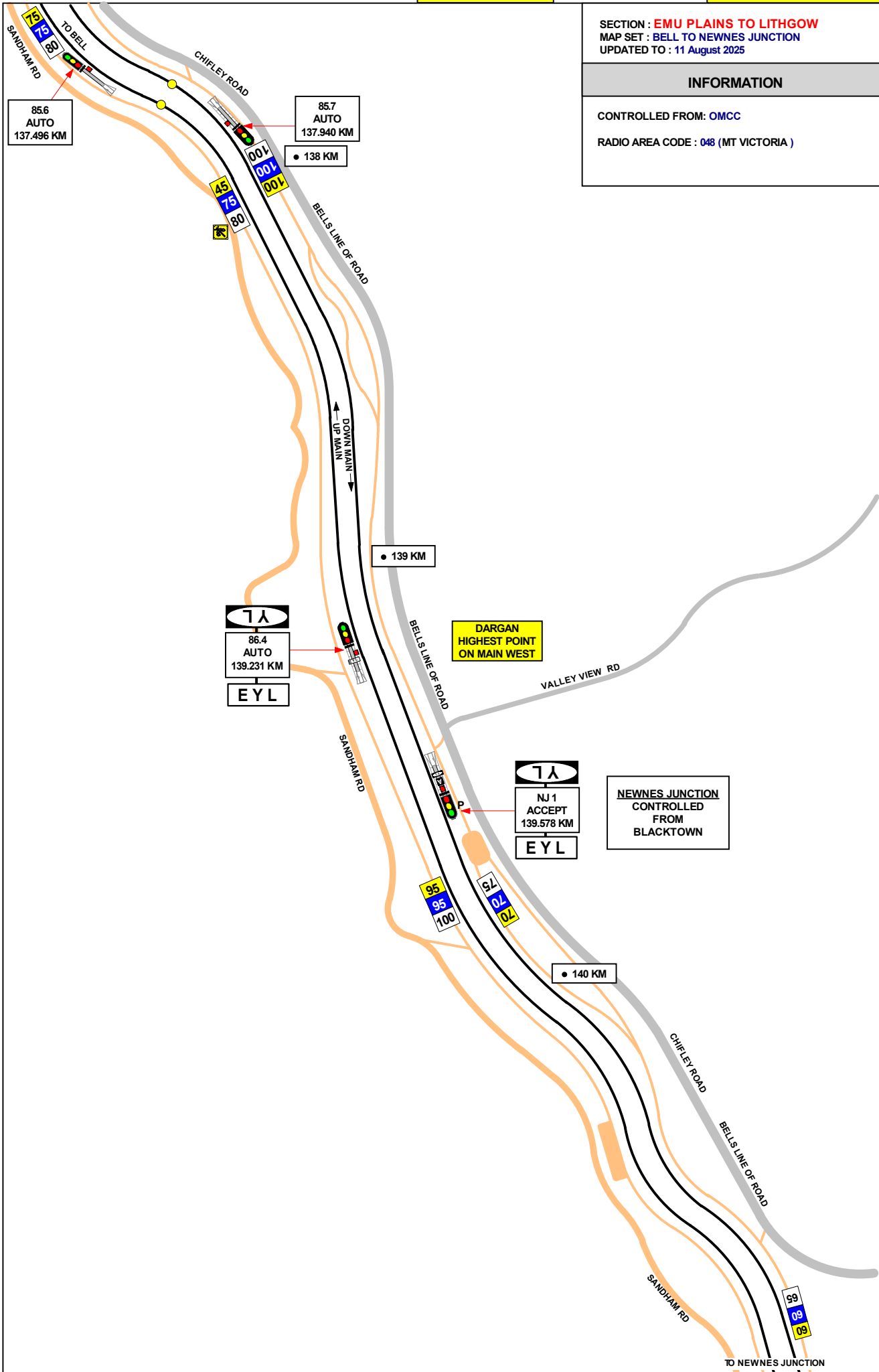
GRADIENT

1 IN 79

1 IN 150

1 IN 150

1 IN 90



SECTION : EMU PLAINS TO LITHGOW
MAP SET : NEWNES JUNCTION
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
NJ 3	DOWN MAIN (M)	---
	DOWN MAIN (S)	DM
	COAL SIDING (S)	CS

SIGNAL	DESTINATION	INDICATION
NJ 5	COAL SIDING (S)	CS

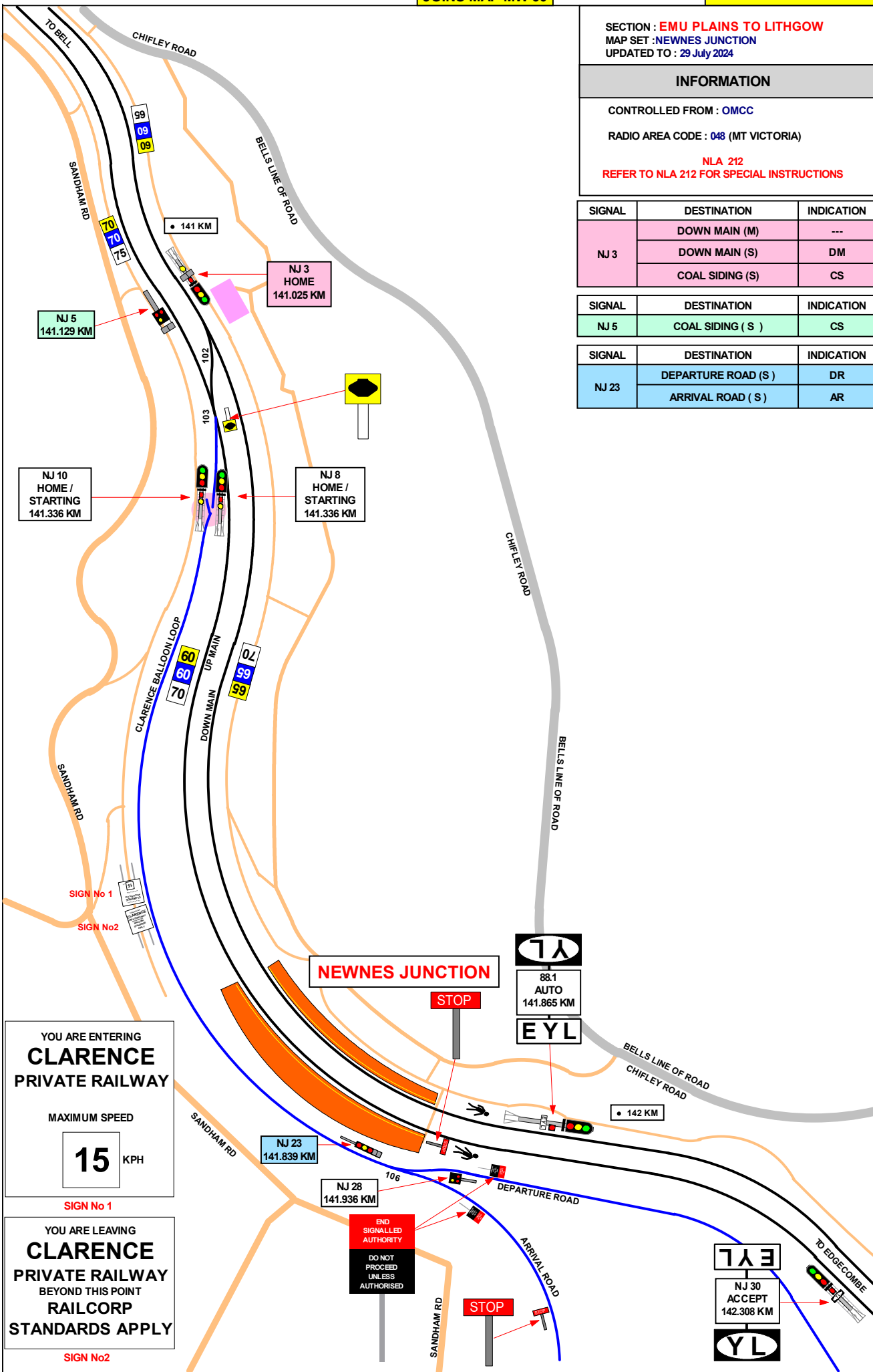
SIGNAL	DESTINATION	INDICATION
NJ 23	DEPARTURE ROAD (S)	DR
	ARRIVAL ROAD (S)	AR

GRADIENT

1 IN 90

LEVEL

1 IN 90

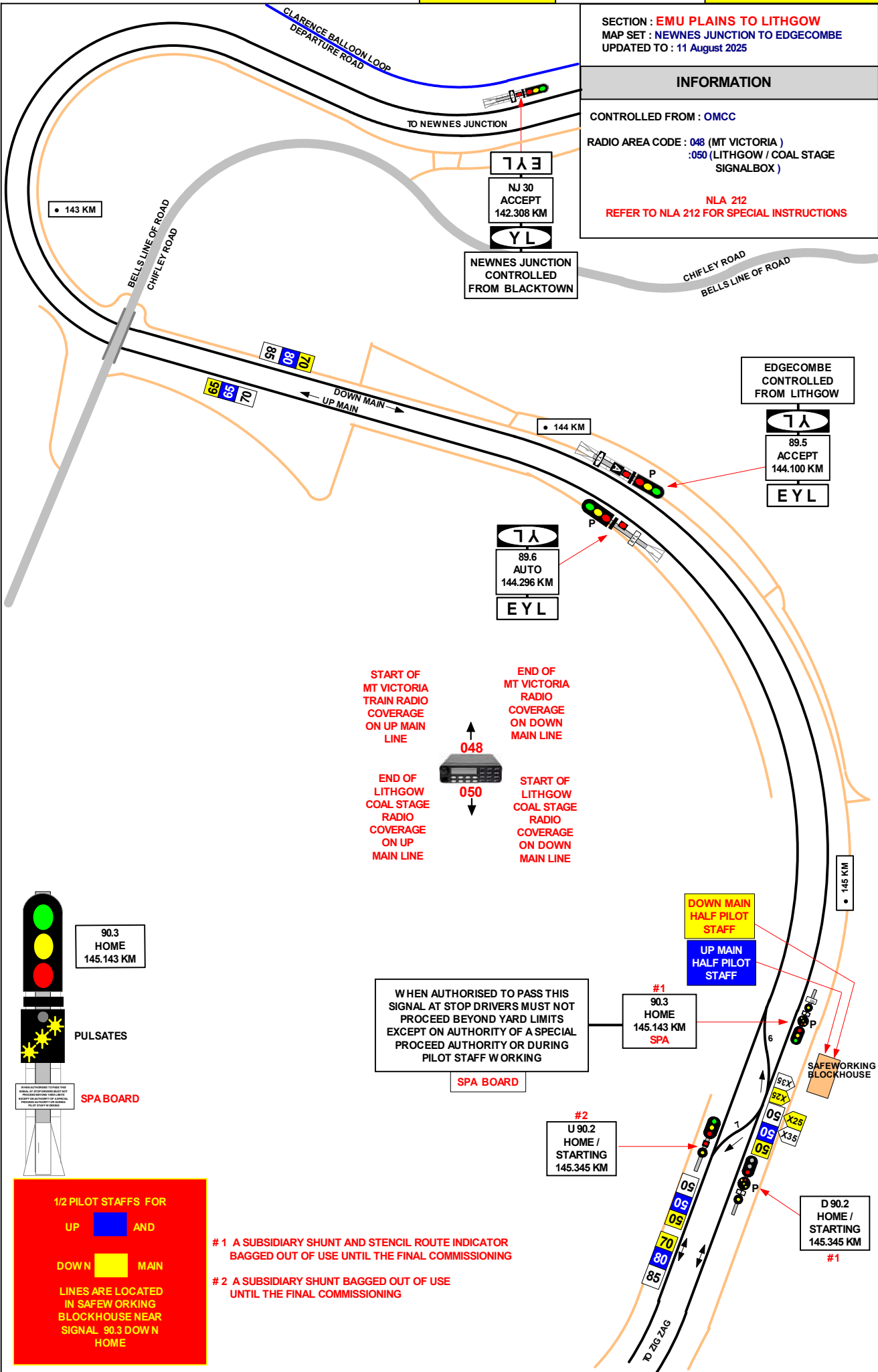


SECTION : EMU PLAINS TO LITHGOW
MAP SET : NEWNES JUNCTION TO EDGECOMBE
UPDATED TO : 11 August 2025

INFORMATION

CONTROLLED FROM : OMCC
RADIO AREA CODE : 048 (MT VICTORIA)
:050 (LITHGOW / COAL STAGE SIGNALBOX)
NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

GRADIENT
1 IN 90
LEVEL
1 IN 152
1 IN 351
1 IN 1166



START OF MT VICTORIA TRAIN RADIO COVERAGE ON UP MAIN LINE

END OF MT VICTORIA RADIO COVERAGE ON DOWN MAIN LINE

END OF LITHGOW COAL STAGE RADIO COVERAGE ON UP MAIN LINE

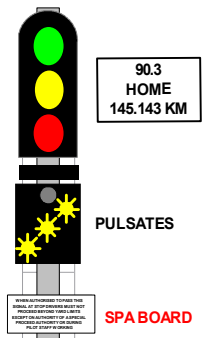
START OF LITHGOW COAL STAGE RADIO COVERAGE ON DOWN MAIN LINE

048

050

WHEN AUTHORISED TO PASS THIS SIGNAL AT STOP DRIVERS MUST NOT PROCEED BEYOND YARD LIMITS EXCEPT ON AUTHORITY OF A SPECIAL PROCEED AUTHORITY OR DURING PILOT STAFF WORKING

SPA BOARD



1/2 PILOT STAFFS FOR
UP AND
DOWN MAIN
LINES ARE LOCATED IN SAFEWORKING BLOCKHOUSE NEAR SIGNAL 90.3 DOWN HOME

1 A SUBSIDIARY SHUNT AND STENCIL ROUTE INDICATOR BAGGED OUT OF USE UNTIL THE FINAL COMMISSIONING

2 A SUBSIDIARY SHUNT BAGGED OUT OF USE UNTIL THE FINAL COMMISSIONING

SECTION : EMU PLAINS TO LITHGOW
MAP SET : EDGECOMBE TO TUNNEL 4
UPDATED TO : 8 May 2020

INFORMATION

CONTROLLED FROM : LITHGOW

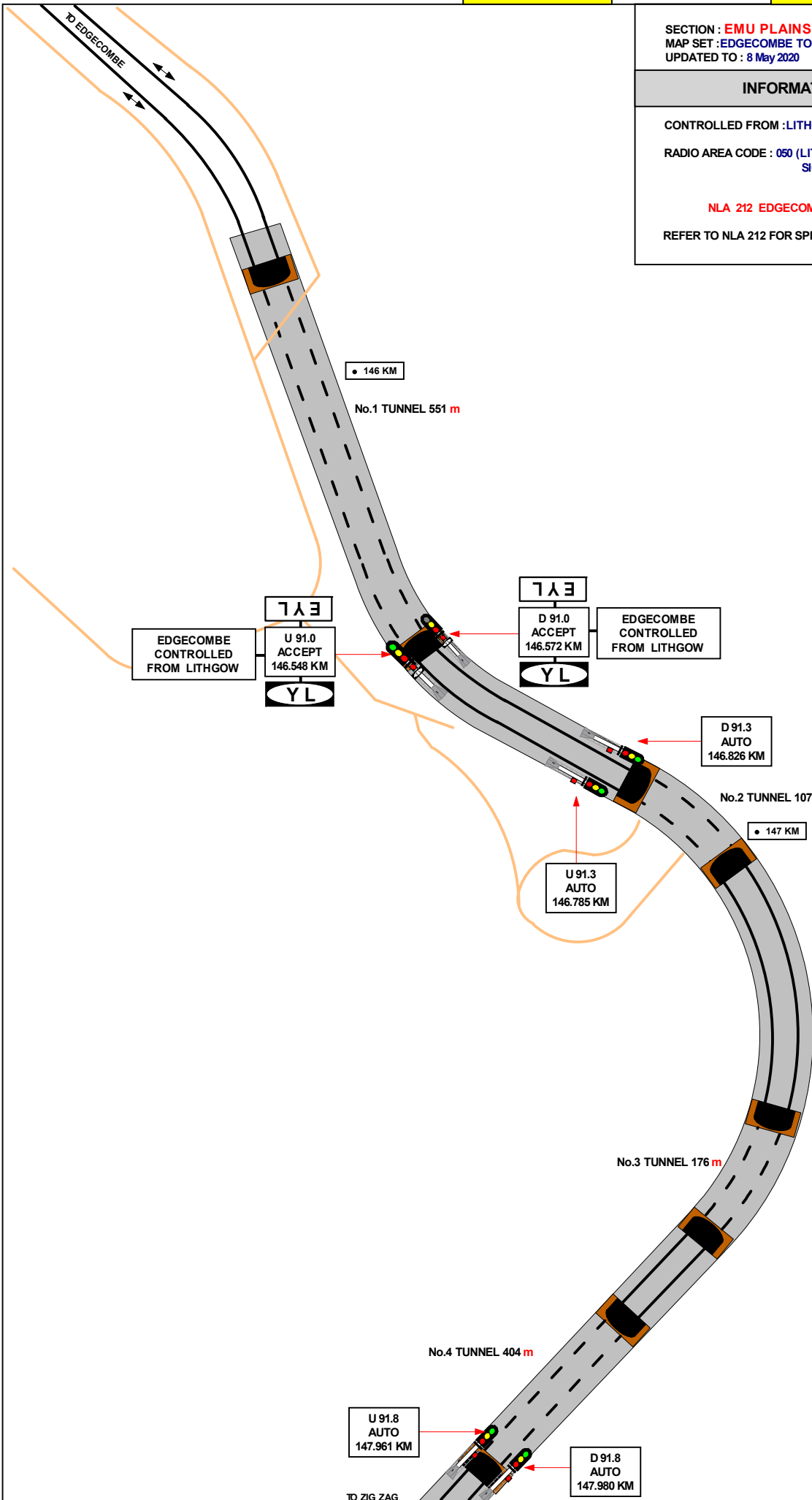
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE
SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

1 IN 1166

1 IN 90



SECTION : EMU PLAINS TO LITHGOW
MAP SET : TUNNEL 4 TO ZIG ZAG
UPDATED TO : 26 November 2021

INFORMATION

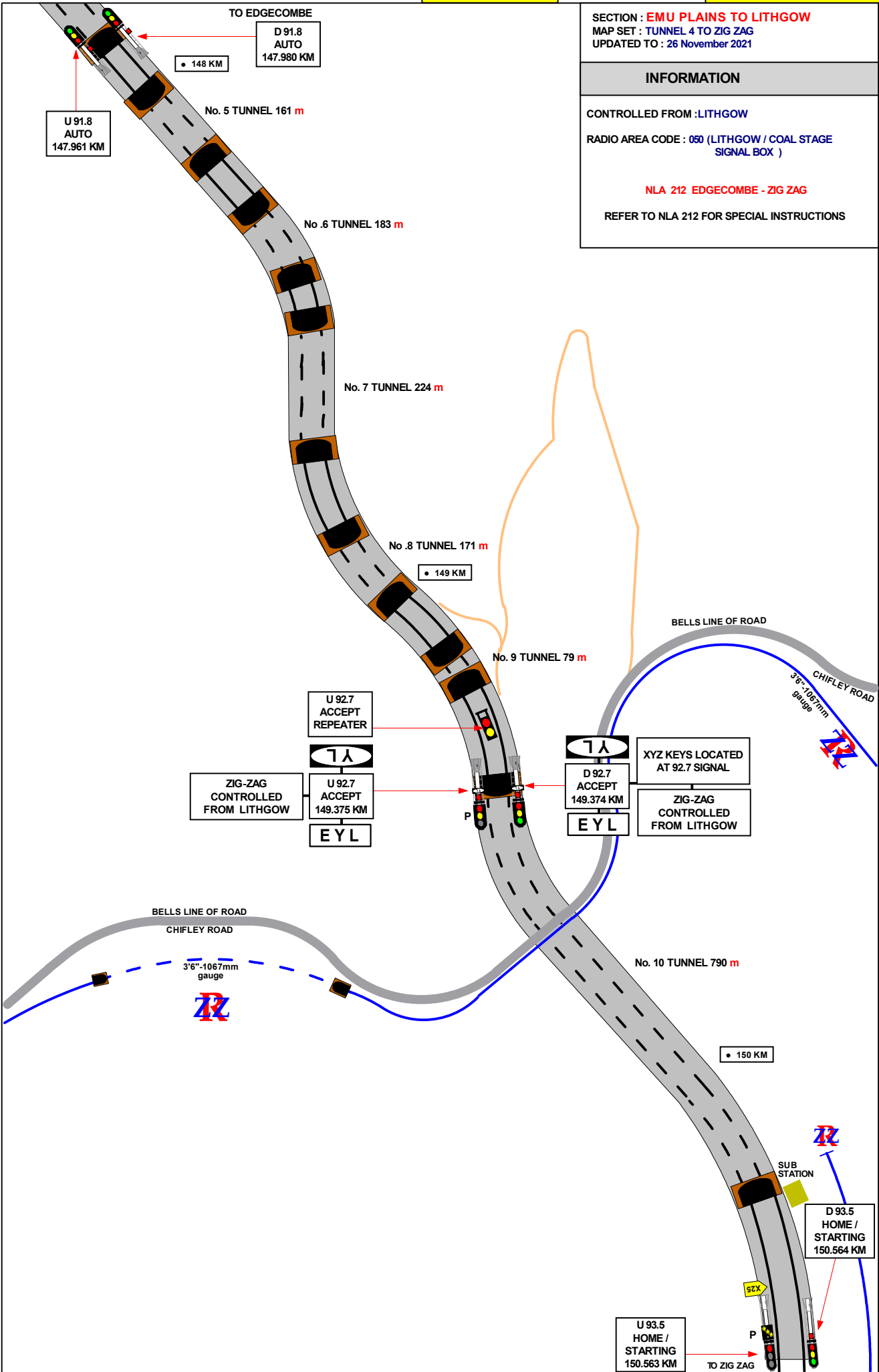
CONTROLLED FROM : LITHGOW
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE
SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

1 IN 90

1 IN 42



SECTION : EMU PLAINS TO LITHGOW
MAP SET : ZIG ZAG TO OAKY PARK
UPDATED TO : 11 August 2025

INFORMATION

CONTROLLED FROM : LITHGOW

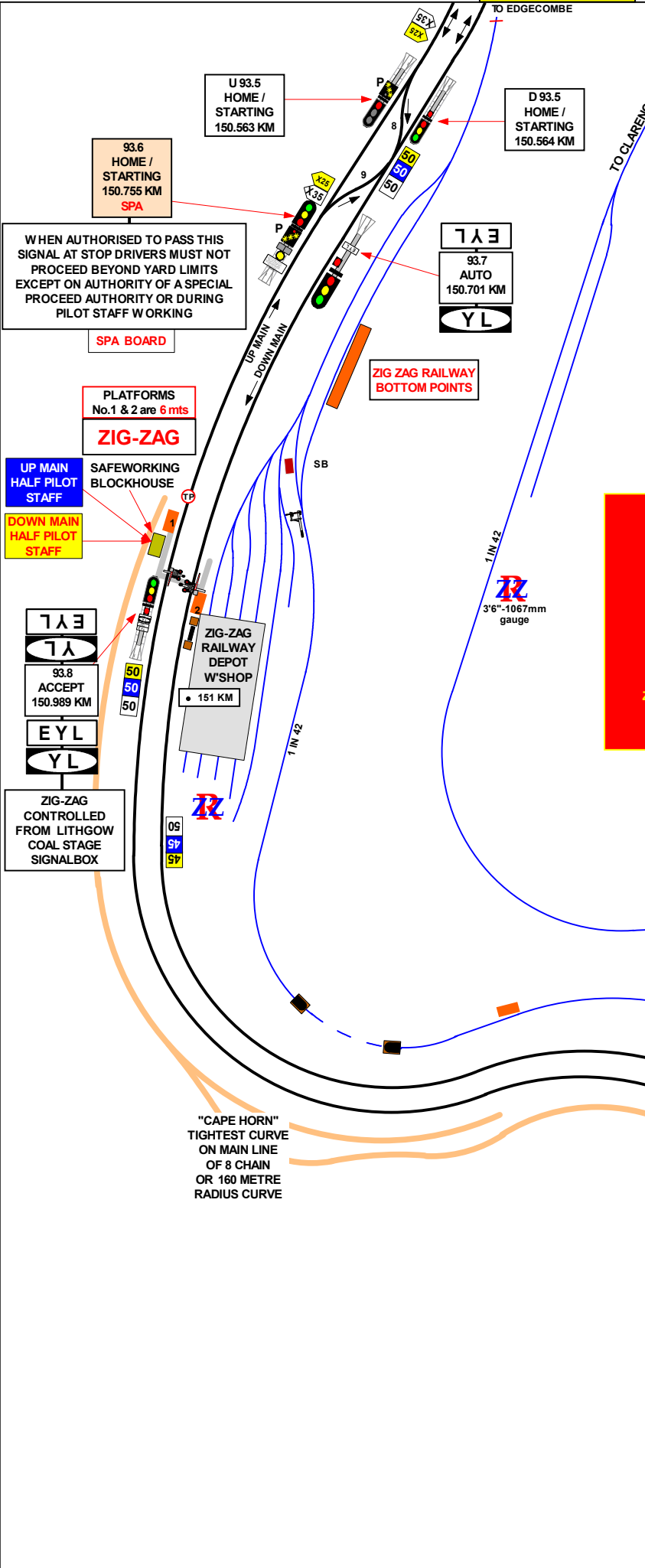
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
D 93.6	UP MAIN	UM
	DOWN MAIN	DM

1 IN 89

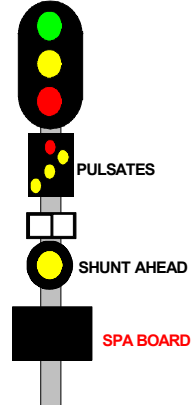


1/2 PILOT STAFFS FOR

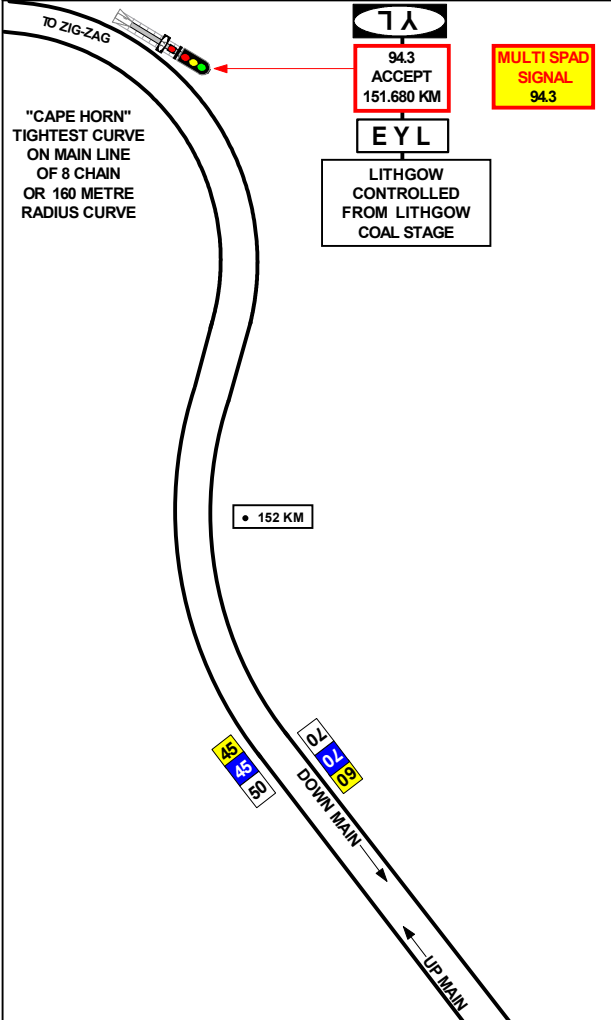
UP  AND

DOWN  MAIN

LINES ARE LOCATED IN SAFEWORKing BLOCKHOUSE NEAR ZIG-ZAG No. 1 PLATFORM



1 IN 42



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : ZIG ZAG TO OAKEY PARK
 UPDATED TO : 15 April 2024

INFORMATION

CONTROLLED FROM : LITHGOW

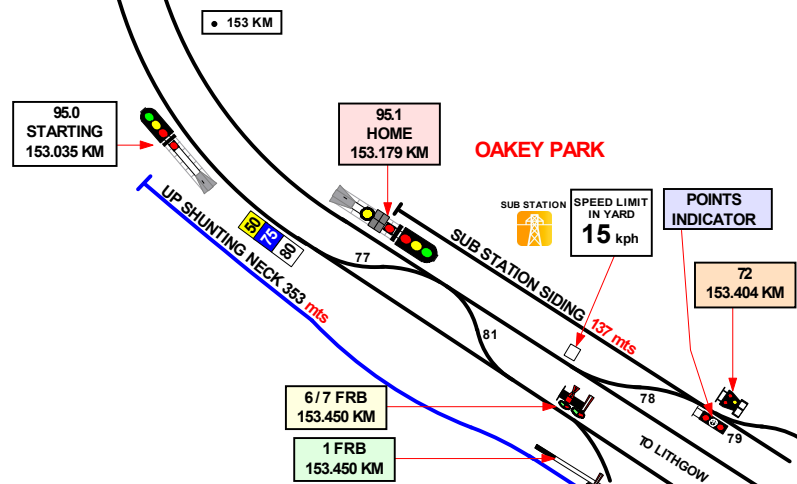
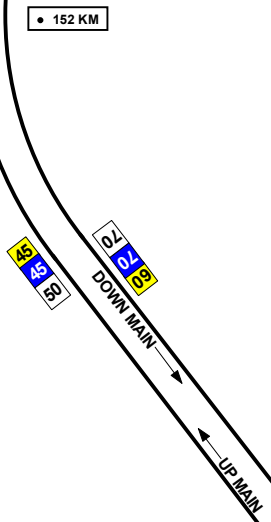
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
95.1	DOWN SIDINGS	DS
	DOWN MAIN	DM
	UP MAIN	UM

SIGNAL	DESTINATION	INDICATION
72	No.2 RECEPTION SIDING	2R
	No.1 RECEPTION SIDING	1R



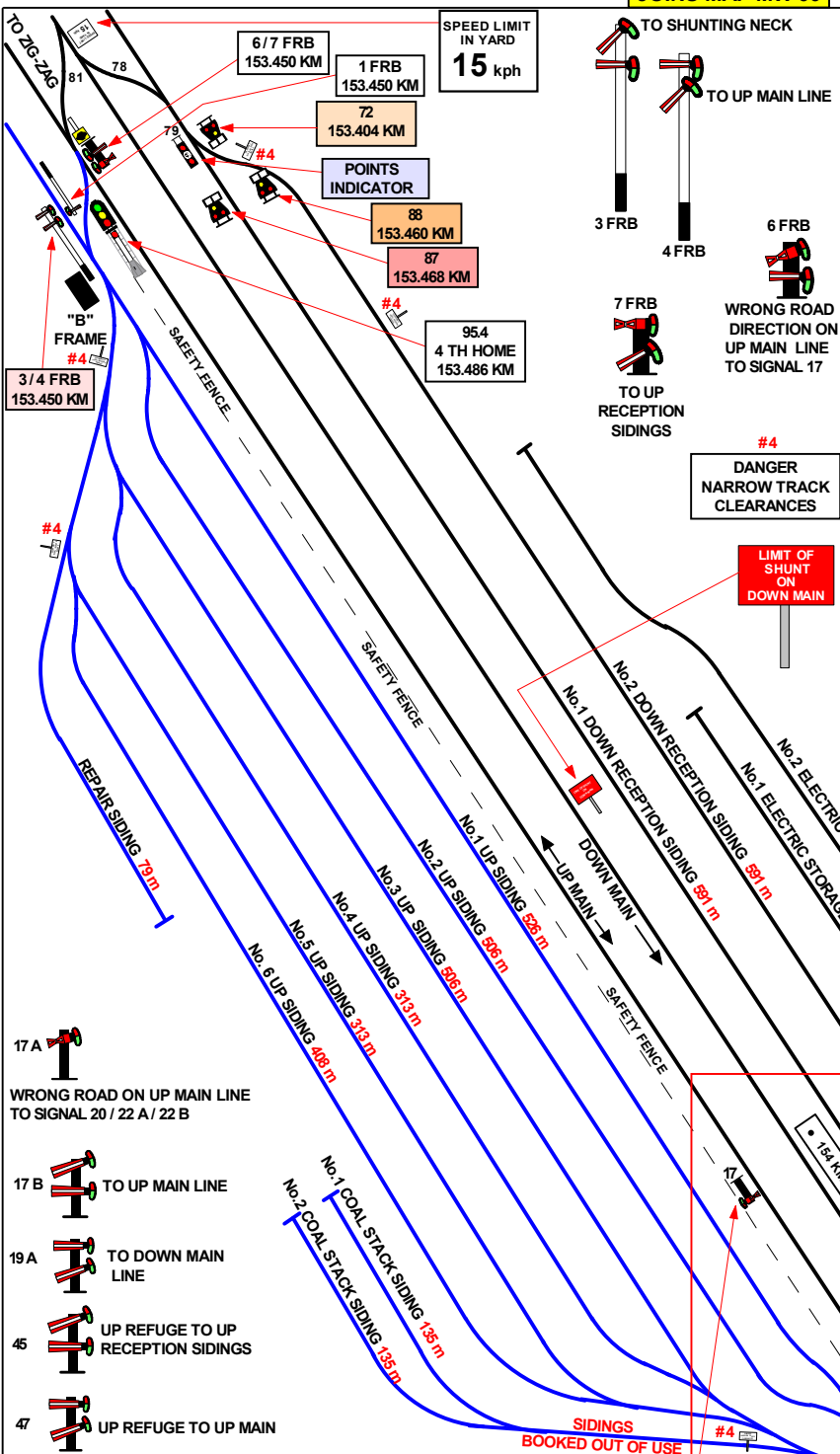
GRADIENT

SECTION : EMU PLAINS TO LITHGOW
 MAP SET : OAKY PARK TO LITHGOW YARD
 UPDATED TO : 04 November 2024

INFORMATION

CONTROLLED FROM : LITHGOW
 RADIO AREA CODE : 050 (LITHGOW / COAL STAGE SIGNAL BOX)
 NLA 218 LITHGOW

SIGNAL	DESTINATION	INDICATION
72	No.2 RECEPTION SIDING	2 R
	No.1 RECEPTION SIDING	1 R
87	UP MAIN	UP
	SUB STATION SIDING	SS
88	UP MAIN	UP
	SUB STATION SIDING	SS
95.8 33 / 42	UP MAIN -CALL ON	UM
	UP YARD	UY
46 / 15 / 10 #3	LOCO ROAD	LR
	DOWN MAIN	DM
	UP MAIN	UM



- 17 A WRONG ROAD ON UP MAIN LINE TO SIGNAL 20 / 22 A / 22 B
- 17 B TO UP MAIN LINE
- 19 A TO DOWN MAIN LINE
- 45 UP REFUGE TO UP RECEPTION SIDINGS
- 47 UP REFUGE TO UP MAIN

SIGNAL	DESTINATION	INDICATION
13/A/B/C/D	ELECTRIC STORAGE No.1	S1
	ELECTRIC STORAGE No.2	S2
	ELECTRIC STORAGE No.3	S3
5/A/B/C	LOCO ROAD	LR
	DOWN MAIN	DM
	UP MAIN	UM
20 / 22A / 22B #2	DOWN MAIN	DM
	SET BACK ON UP MAIN	UM
	DEPARTURE ROAD	DR

LITHGOW COAL STAGE SIGNALBOX



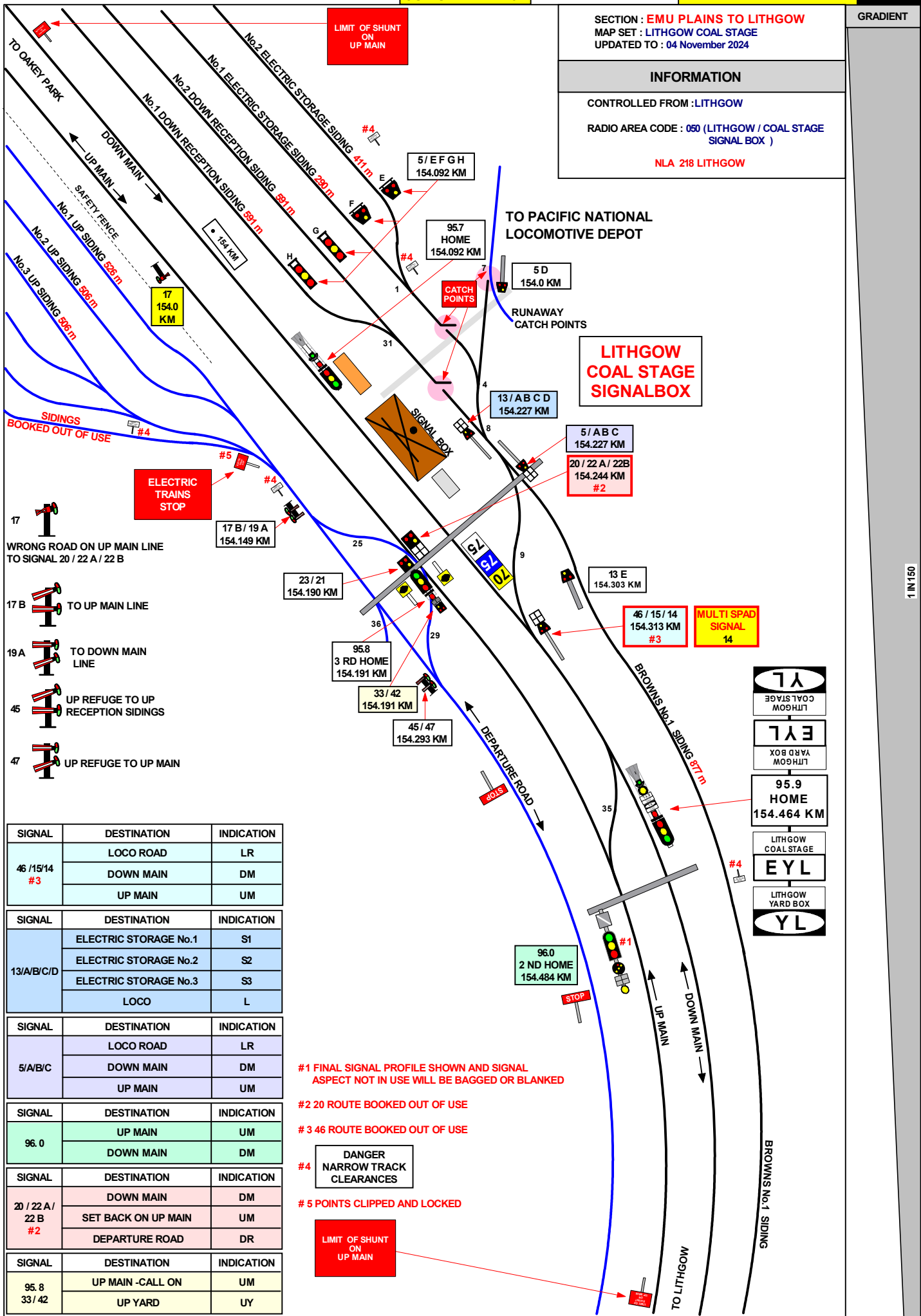
- # 2 20 ROUTE BOOKED OUT OF USE
- # 3 46 ROUTE BOOKED OUT OF USE
- # 4 DANGER NARROW TRACK CLEARANCES

1 IN 150

SECTION : EMU PLAINS TO LITHGOW
 MAP SET : LITHGOW COAL STAGE
 UPDATED TO : 04 November 2024

INFORMATION

CONTROLLED FROM : LITHGOW
 RADIO AREA CODE : 050 (LITHGOW / COAL STAGE SIGNAL BOX)
 NLA 218 LITHGOW



- 17 WRONG ROAD ON UP MAIN LINE TO SIGNAL 20 / 22 A / 22 B
- 17 B TO UP MAIN LINE
- 19 A TO DOWN MAIN LINE
- 46 UP REFUGE TO UP RECEPTION SIDINGS
- 47 UP REFUGE TO UP MAIN

SIGNAL	DESTINATION	INDICATION
46 / 15/14 #3	LOCO ROAD	LR
	DOWN MAIN	DM
	UP MAIN	UM
13/A/B/C/D	ELECTRIC STORAGE No.1	S1
	ELECTRIC STORAGE No.2	S2
	ELECTRIC STORAGE No.3	S3
	LOCO	L
5/A/B/C	LOCO ROAD	LR
	DOWN MAIN	DM
	UP MAIN	UM
96.0	UP MAIN	UM
	DOWN MAIN	DM
20 / 22 A / 22 B #2	DOWN MAIN	DM
	SET BACK ON UP MAIN	UM
	DEPARTURE ROAD	DR
95.8 / 33 / 42	UP MAIN -CALL ON	UM
	UP YARD	UY

- #1 FINAL SIGNAL PROFILE SHOWN AND SIGNAL ASPECT NOT IN USE WILL BE BAGGED OR BLANKED
- #2 20 ROUTE BOOKED OUT OF USE
- #3 46 ROUTE BOOKED OUT OF USE
- #4 DANGER NARROW TRACK CLEARANCES
- #5 POINTS CLIPPED AND LOCKED

LIMIT OF SHUNT ON UP MAIN

1 IN 150

FOR ACCESS AND INFORMATION
CONTACT COORDINATOR
Mr J . BROOKS on 063 507 515



**LITHGOW LOCOMOTIVE
DEPOT
PACIFIC NATIONAL**

4 October 2023

Diesel By-Pass Road

No. 7 Loco Workshop Rd 217 m

No. 6 Loco Workshop Rd 264 m

No. 3 Loco Workshop Rd 259 m

No. 2 Electric Loco Workshop Rd 259 m

No. 1 Electric Loco Workshop Rd 294 m

Electric Loco Departure Rd 275 m

Electric Loco Sand Rd 339 m

Diesel Loco and Sand Rd 319 m

No. 2 ELECTRIC STORAGE SIDINGS 411 m

No. 1 ELECTRIC STORAGE SIDINGS 290 m

JOINS MAP MW 68



CATCH POINTS
RUNAWAY CATCHPOINTS

5 D
154.0 KM

**ELECTRIC
TRAINS
STOP**

TO COAL STAGE SIGNALBOX

SECTION : EMU PLAINS TO LITHGOW
MAP SET : LITHGOW
UPDATED TO : 24 June 2026

INFORMATION

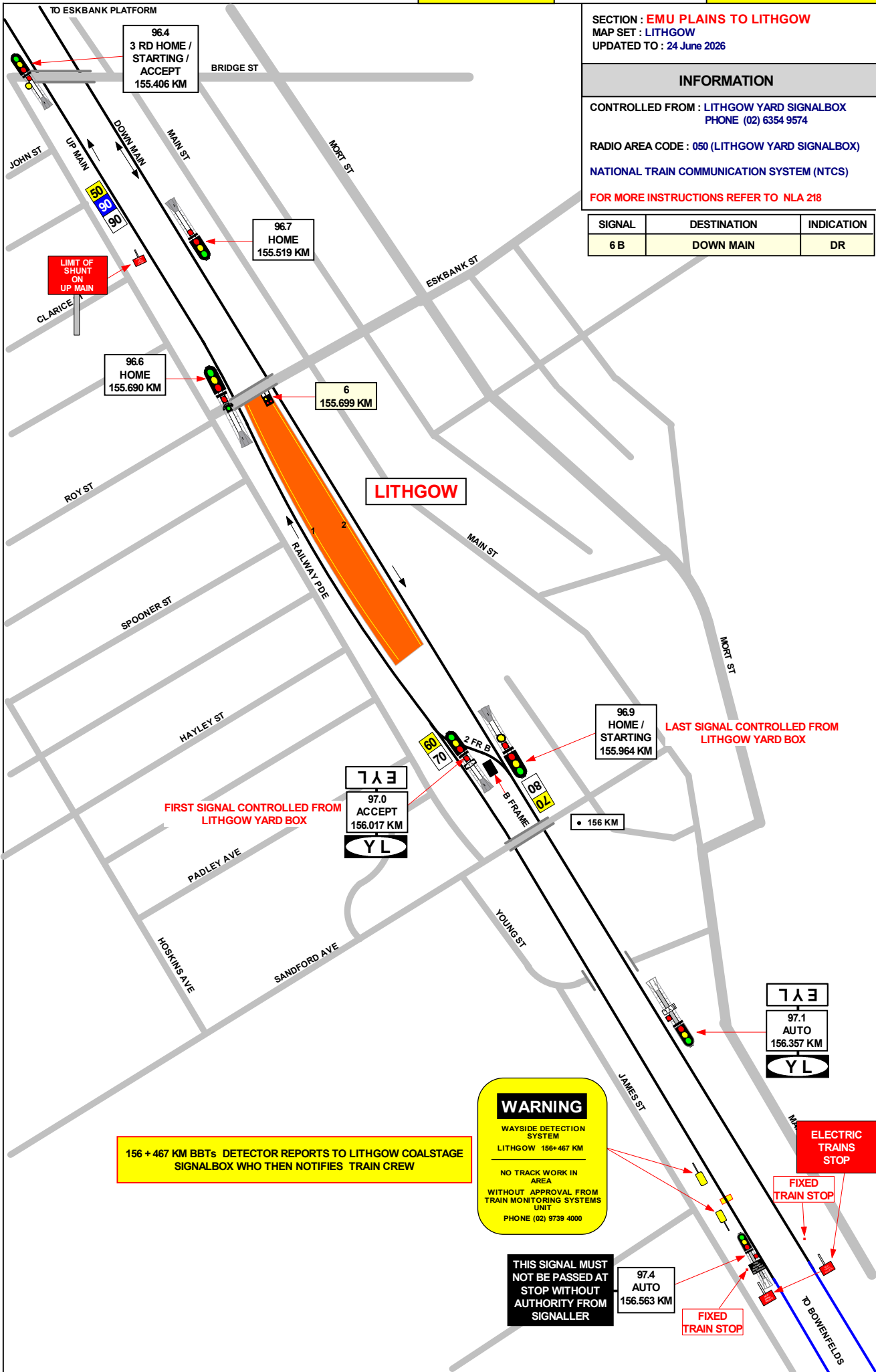
CONTROLLED FROM : LITHGOW YARD SIGNALBOX
PHONE (02) 6354 9574

RADIO AREA CODE : 050 (LITHGOW YARD SIGNALBOX)

NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)

FOR MORE INSTRUCTIONS REFER TO NLA 218

SIGNAL	DESTINATION	INDICATION
6 B	DOWN MAIN	DR



FIRST SIGNAL CONTROLLED FROM LITHGOW YARD BOX

LAST SIGNAL CONTROLLED FROM LITHGOW YARD BOX

156 + 467 KM BBTs DETECTOR REPORTS TO LITHGOW COALSTAGE SIGNALBOX WHO THEN NOTIFIES TRAIN CREW

WARNING
 WAYSIDE DETECTION SYSTEM
 LITHGOW 156+467 KM
 NO TRACK WORK IN AREA
 WITHOUT APPROVAL FROM TRAIN MONITORING SYSTEMS UNIT
 PHONE (02) 9739 4000

THIS SIGNAL MUST NOT BE PASSED AT STOP WITHOUT AUTHORITY FROM SIGNALLER

CONTROL PANELS	DEPARTMENTAL	PUBLIC
PENRITH PANEL-----	83 824-----	02 4780 3824
KATOOMBA PANEL-----	87 401-----	02 9851 7401
MT VICTORIA PANEL 1-----	88 837-----	02 6354 9837
MT VICTORIA PANEL 2-----	88 887-----	02 6354 9887
ZIG-ZAG TRAFFIC HUT-----	88 569-----	NA
LITHGOW COAL STAGE-----	88 524-----	63 549 524
LITHGOW YARD-----	88 574-----	63 549 574
LITHGOW STATION-----	88 565-----	63 549 565

STATIONS	DEPARTMENTAL	PUBLIC
BELL-----	NA-----	02 4787 8452
BLACKHEATH-----	83 992-----	02 4780 3992
BLAXLAND-----	83 806-----	02 4739 1620
BULLABURRA-----	NA-----	02 4780 3935
EMU PLAINS-----	NA-----	02 4735 2506
FAULCONBRIDGE-----	83 906-----	02 4780 3906
GLENBROOK-----	83 805-----	02 4739 1753
HAZELBROOK-----	83 913-----	02 4780 3913
KATOOMBA-----	83 965-----	02 4782 1902
LAPSTONE-----	83 813-----	02 4780 3813
LAWSON-----	83 914-----	02 4780 3914
LEURA-----	83 933-----	02 4780 3933
LINDEN-----	NA-----	02 4780 3915
LITHGOW-----	88 565-----	02 6354 9507
MEDLOW BATH-----	NA-----	02 4782 1902
MOUNT VICTORIA-----	88 838-----	02 6354 9838
SPRINGWOOD-----	83 905-----	02 4780 3915
VALLEY HEIGHTS-----	83 105-----	02 4780 3105
WARRIMOO-----	NA-----	02 4780 3808
WENTWORTH FALLS-----	NA-----	02 4780 3931
WOODFORD-----	NA-----	02 4780 3910