

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: December 2024

Version: 4.91

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.

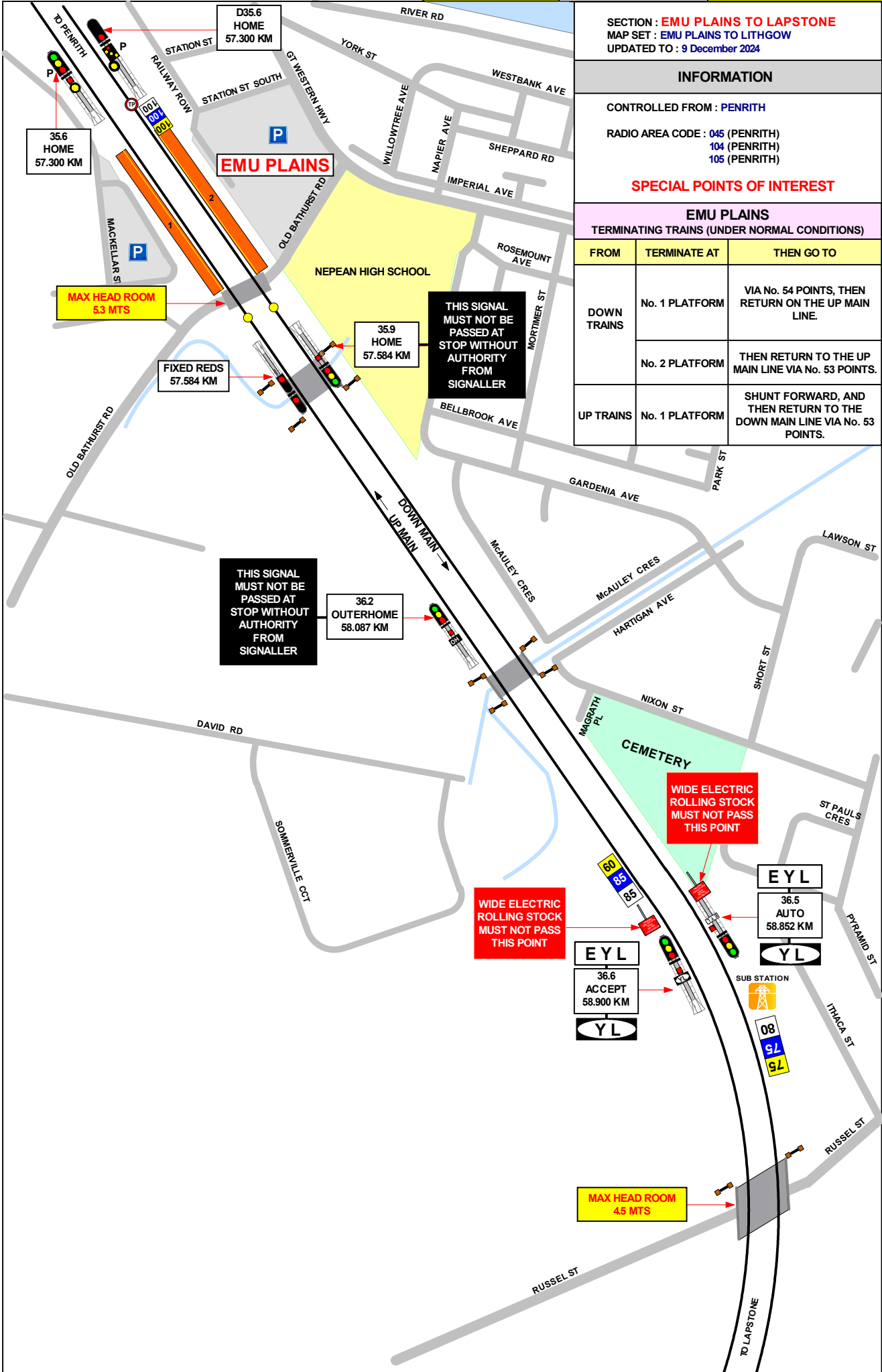
Please report any updates to
gis.support@transport.nsw.gov.au



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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 | |

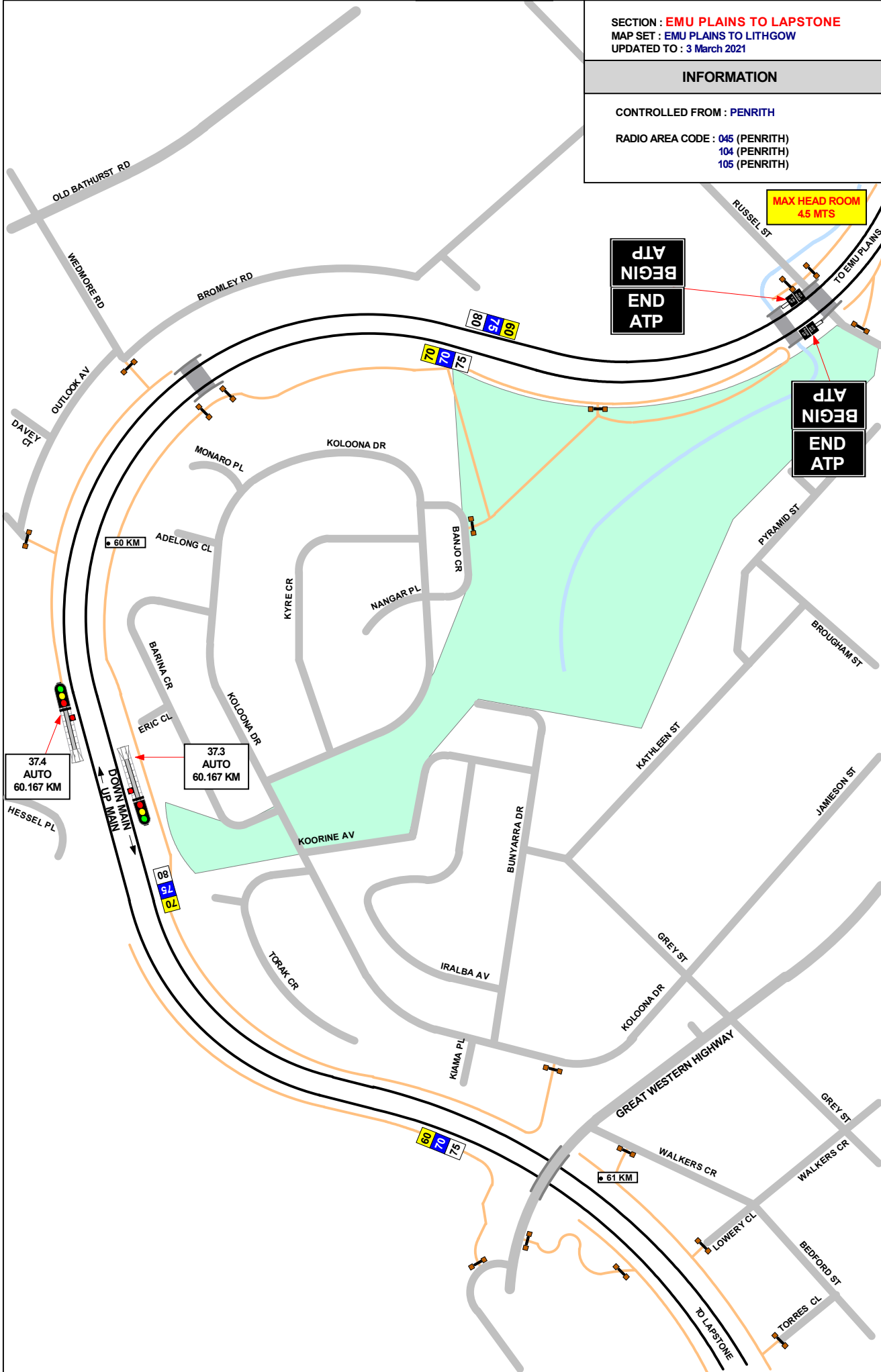
SECTION : EMU PLAINS TO LAPSTONE
MAP SET : EMU PLAINS TO LITHGOW
UPDATED TO : 3 March 2021

GRADIENT

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

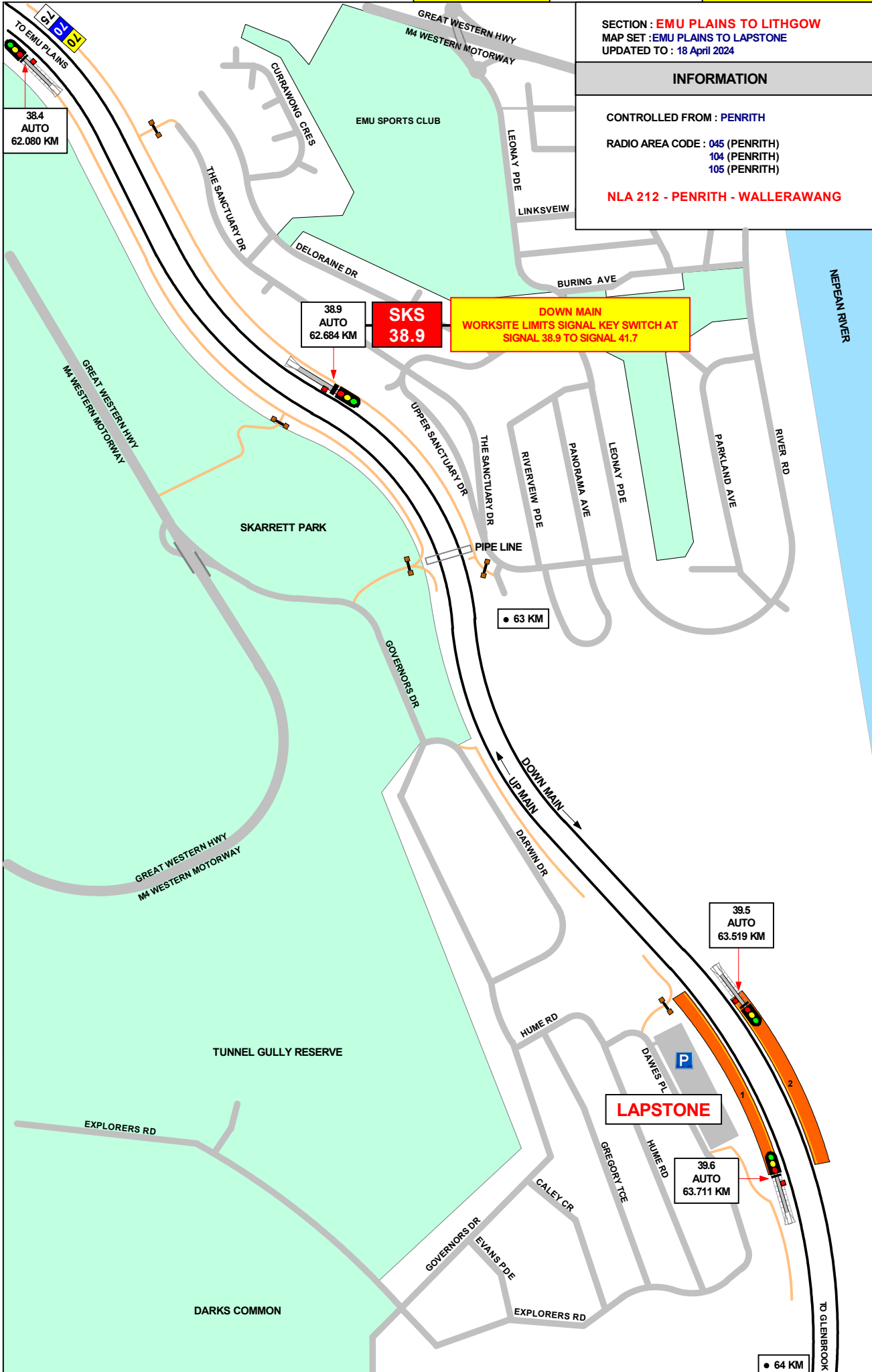
SECTION : EMU PLAINS TO LITHGOW
MAP SET : EMU PLAINS TO LAPSTONE
UPDATED TO : 18 April 2024

INFORMATION

CONTROLLED FROM : PENRITH

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

NLA 212 - PENRITH - WALLERAWANG



1 IN 60

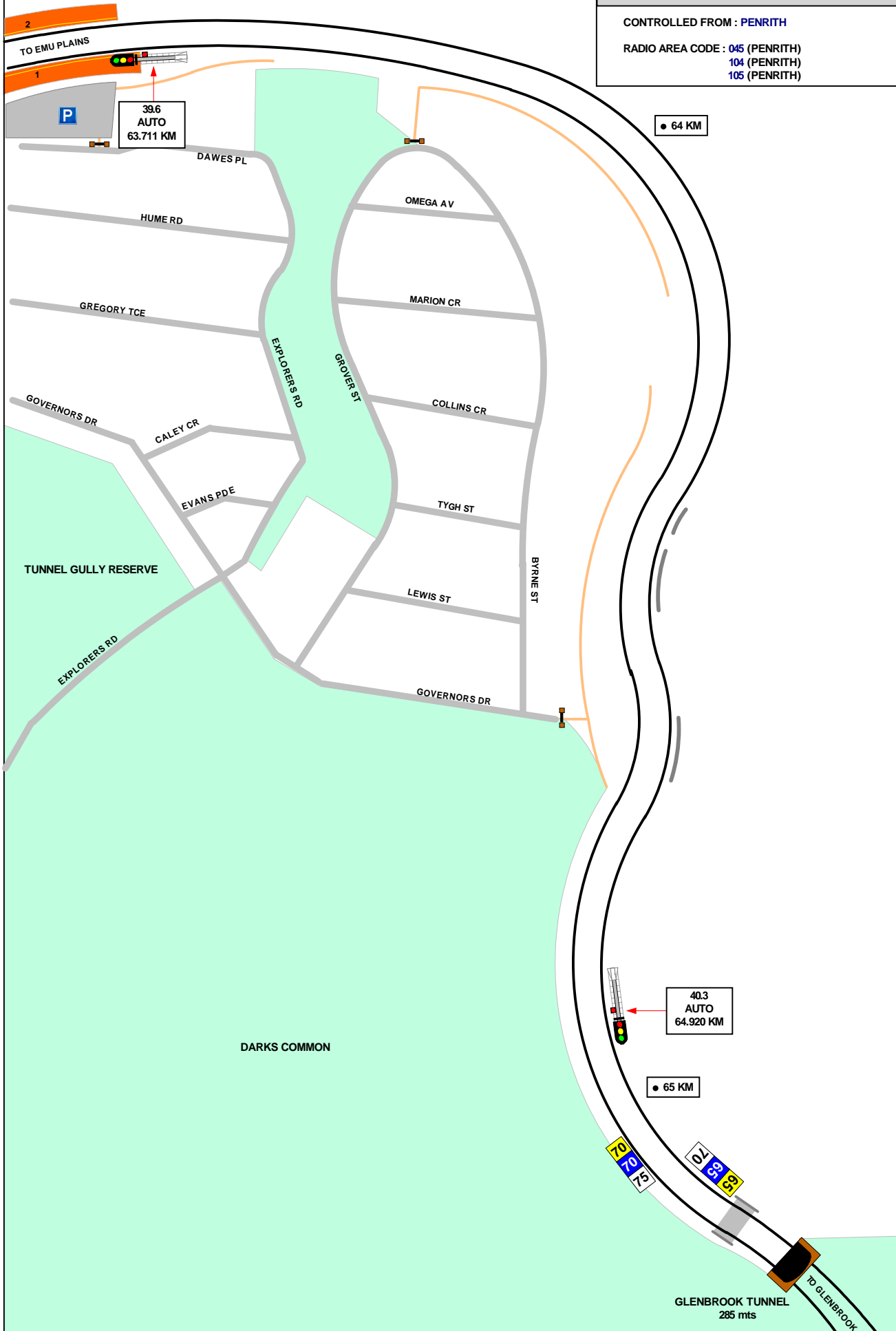
LAPSTONE

SECTION : EMU PLAINS TO LITHGOW
MAP SET : LAPSTONE TO GLENBROOK TUNNEL
UPDATED TO : 22 JULY 2014

GRADIENT

INFORMATION

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



SECTION : EMU PLAINS TO LITHGOW
MAP SET : LAPSTONE TO GLENBROOK
UPDATED TO : 18 April 2024

GRADIENT

INFORMATION

CONTROLLED FROM : PENRITH

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

NLA 212 - PENRITH - WALLERAWANG

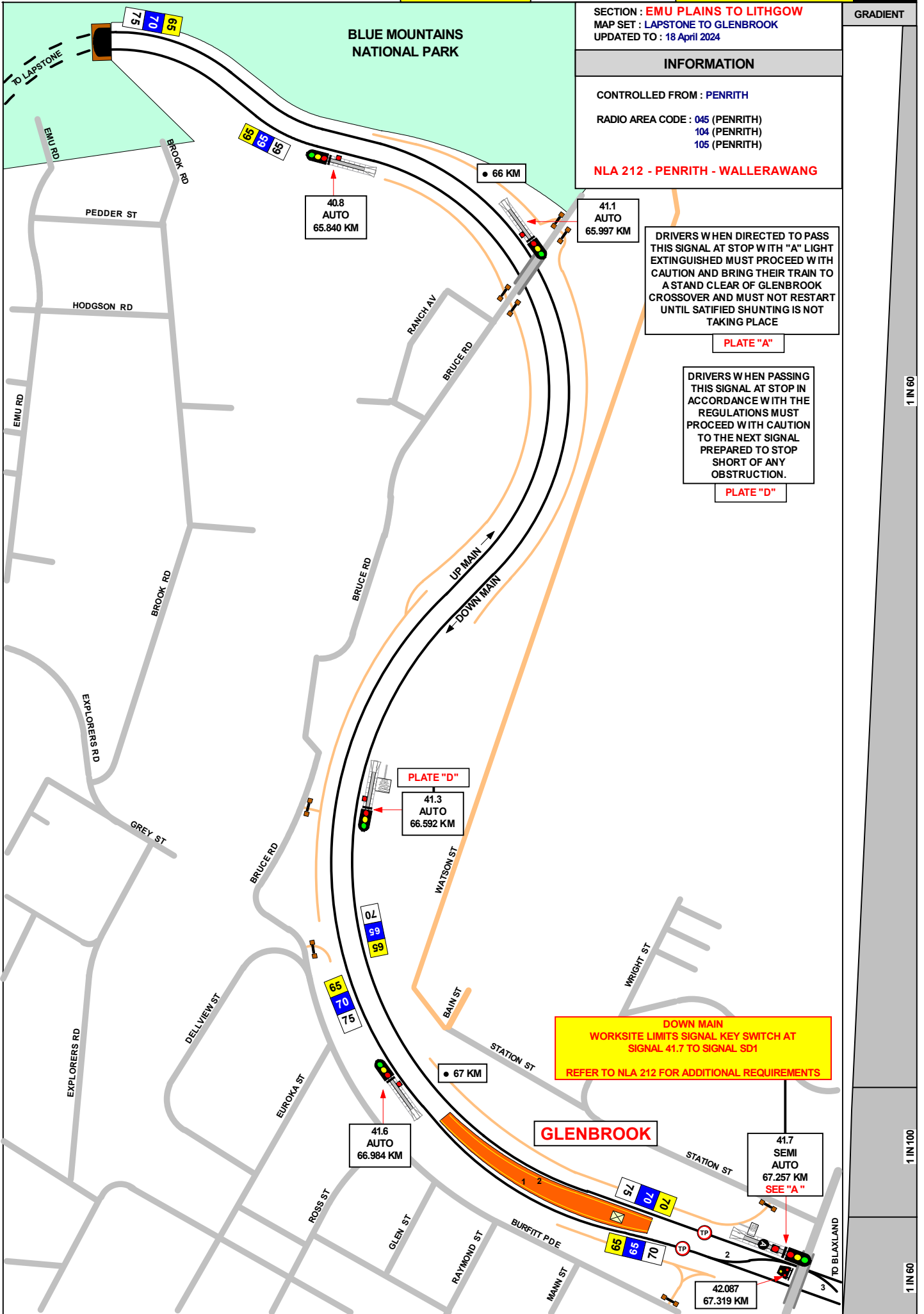
DRIVERS WHEN DIRECTED TO PASS THIS SIGNAL AT STOP WITH "A" LIGHT EXTINGUISHED MUST PROCEED WITH CAUTION AND BRING THEIR TRAIN TO A STAND CLEAR OF GLENBROOK CROSSOVER AND MUST NOT RESTART UNTIL SATISFIED SHUNTING IS NOT TAKING PLACE

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"

DOWN MAIN
WORKSITE LIMITS SIGNAL KEY SWITCH AT
SIGNAL 41.7 TO SIGNAL SD1
REFER TO NLA 212 FOR ADDITIONAL REQUIREMENTS



1 IN 60

1 IN 100

1 IN 60

SECTION : EMU PLAINS TO LITHGOW
MAP SET : GLENBROOK TO BLAXLAND
UPDATED TO : 18 April 2024

INFORMATION

CONTROLLED FROM : PENRITH

RADIO AREA CODE : 045 (PENRITH)

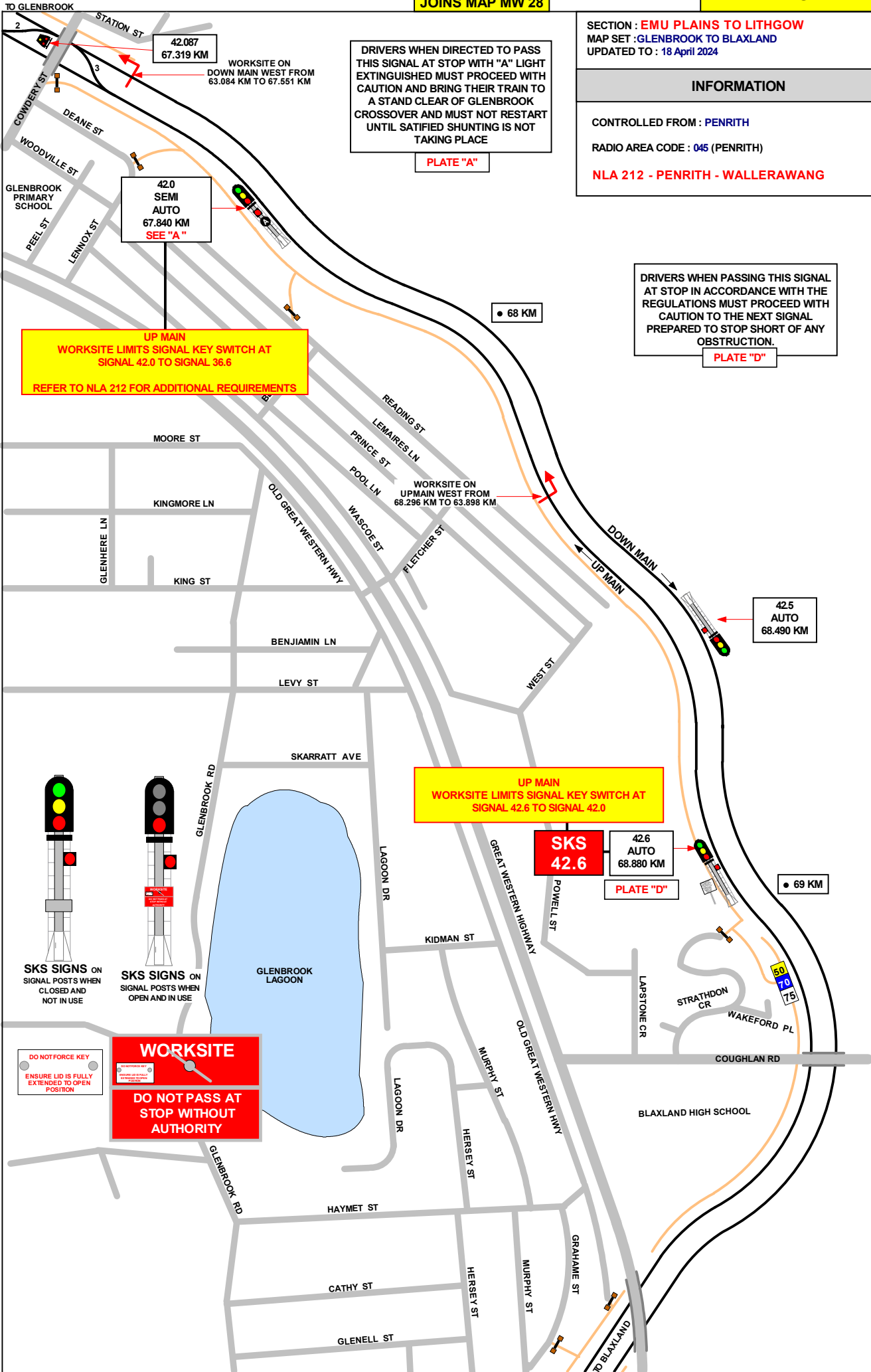
NLA 212 - PENRITH - WALLERAWANG

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"

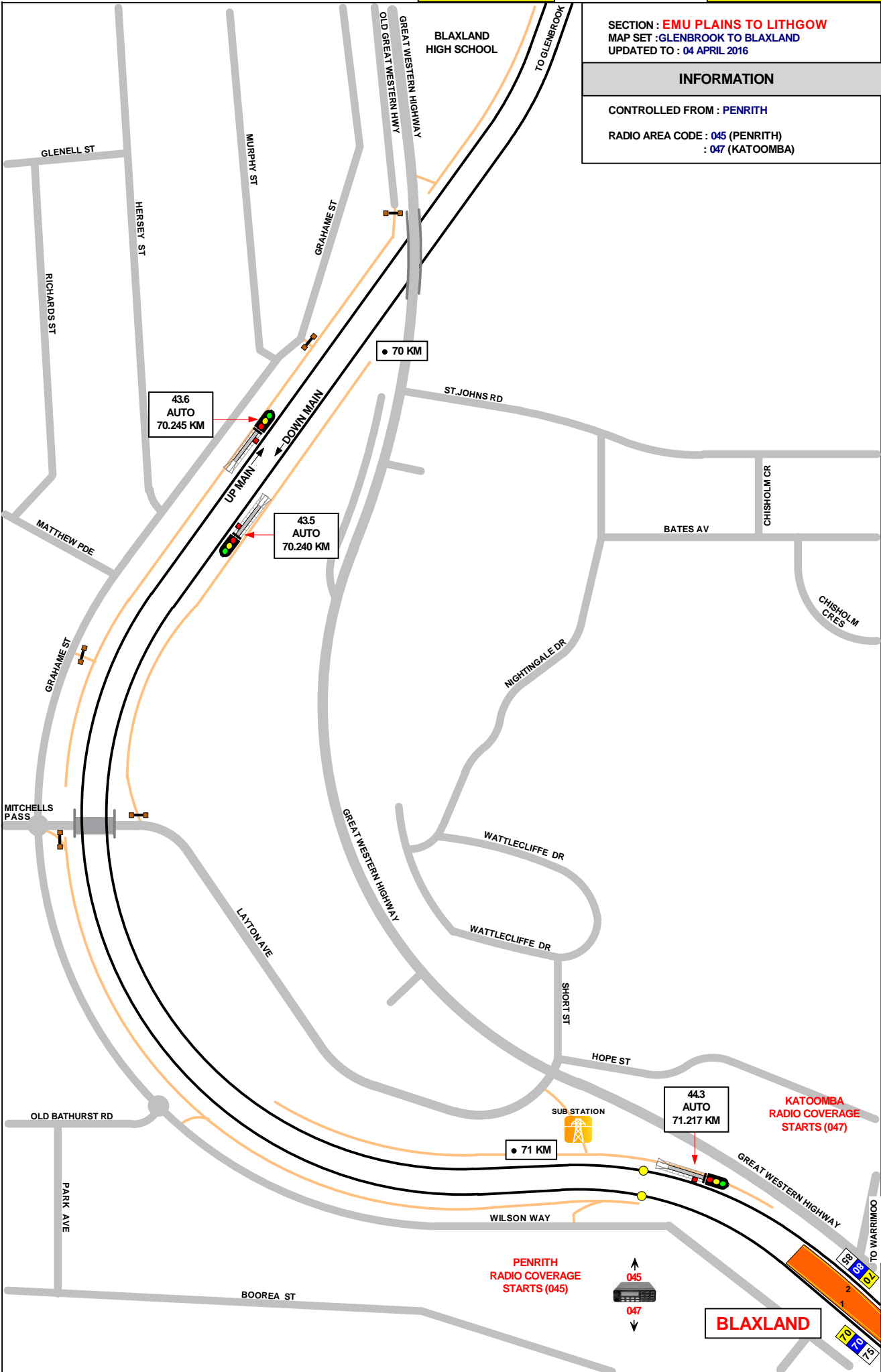


SECTION : EMU PLAINS TO LITHGOW
MAP SET : GLENBROOK TO BLAXLAND
UPDATED TO : 04 APRIL 2016

INFORMATION

CONTROLLED FROM : PENRITH

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



1 IN 60

BLAXLAND

TO GLENBROOK

BLAXLAND

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

GRADIENT

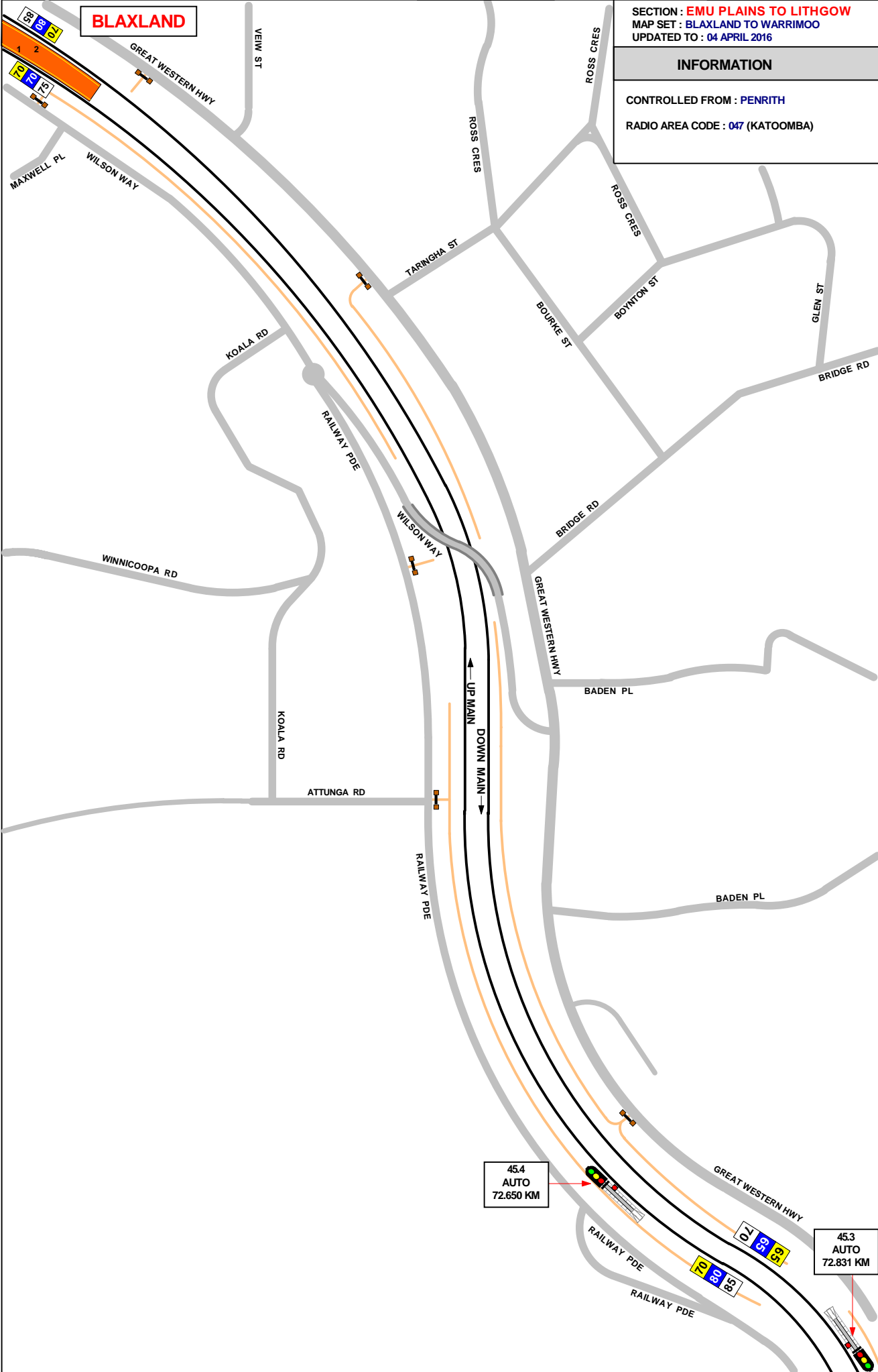
INFORMATION

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

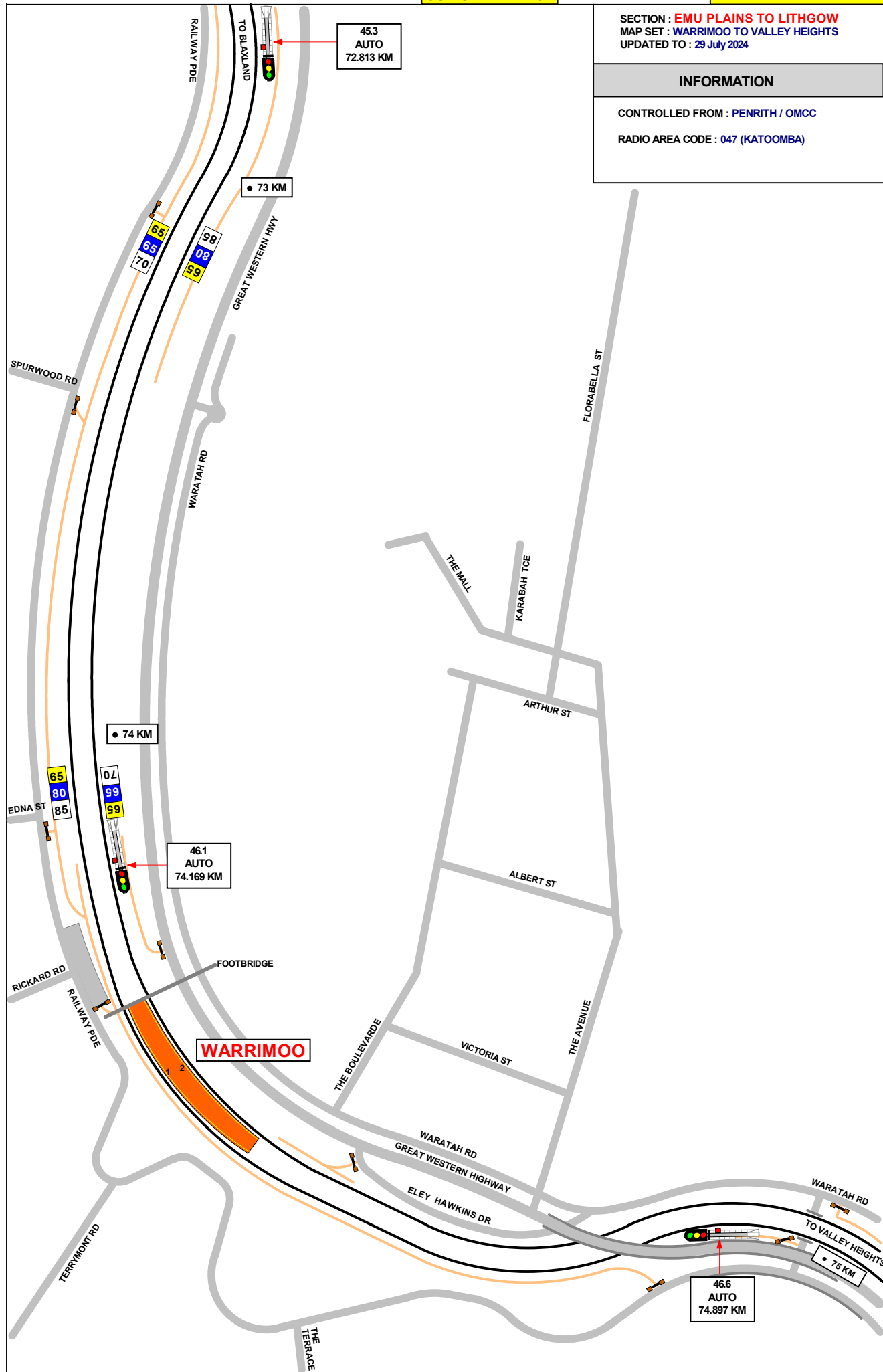
SECTION : EMU PLAINS TO LITHGOW
MAP SET : WARRIMOO TO VALLEY HEIGHTS
UPDATED TO : 29 July 2024

GRADIENT

INFORMATION

CONTROLLED FROM : PENRITH / OMCC

RADIO AREA CODE : 047 (KATOOMBA)



1 IN 68

1 IN 60

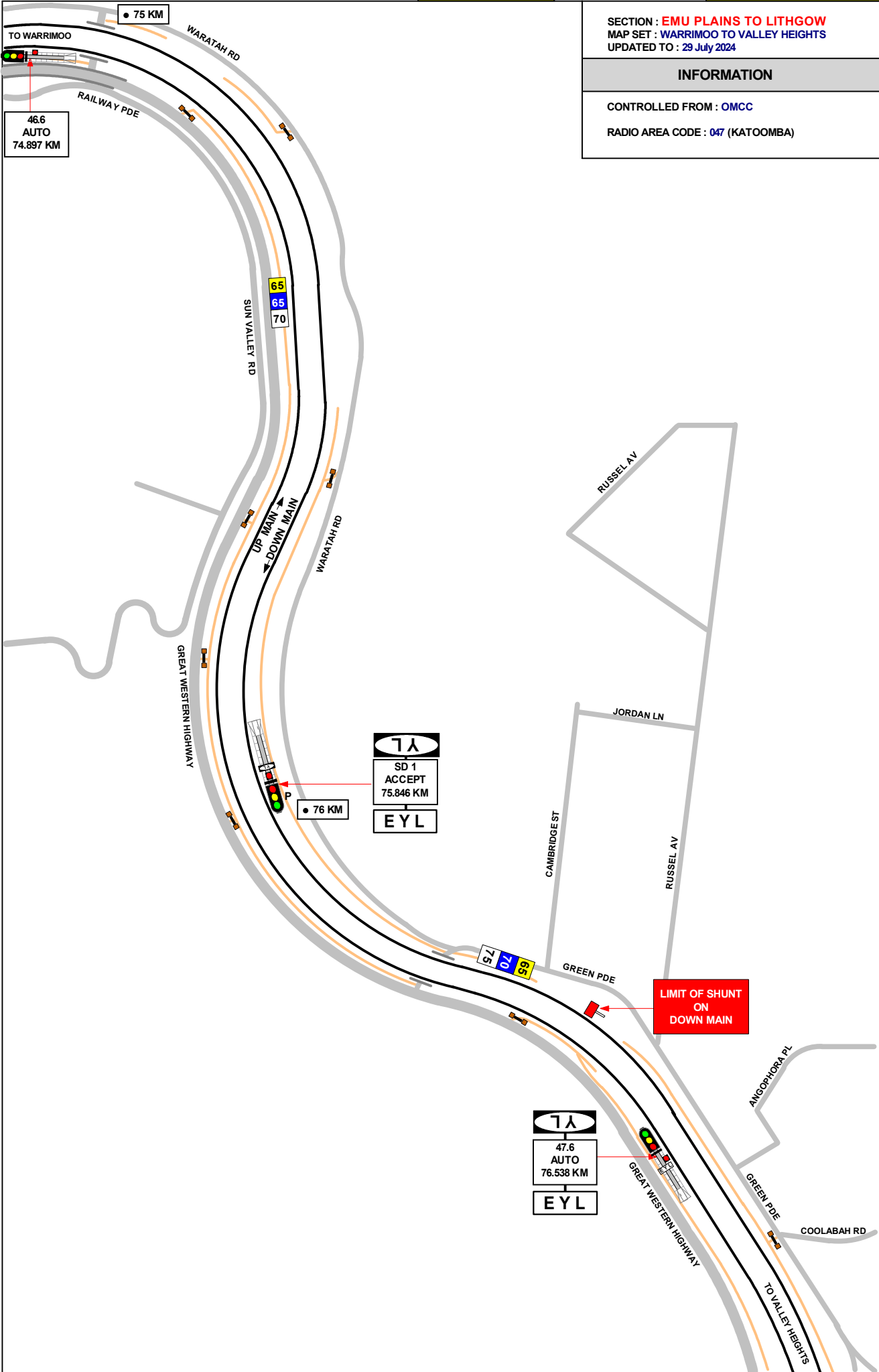
1 IN 60

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)



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

GRADIENT

INFORMATION

CONTROLLED FROM : **OMCC**

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

NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

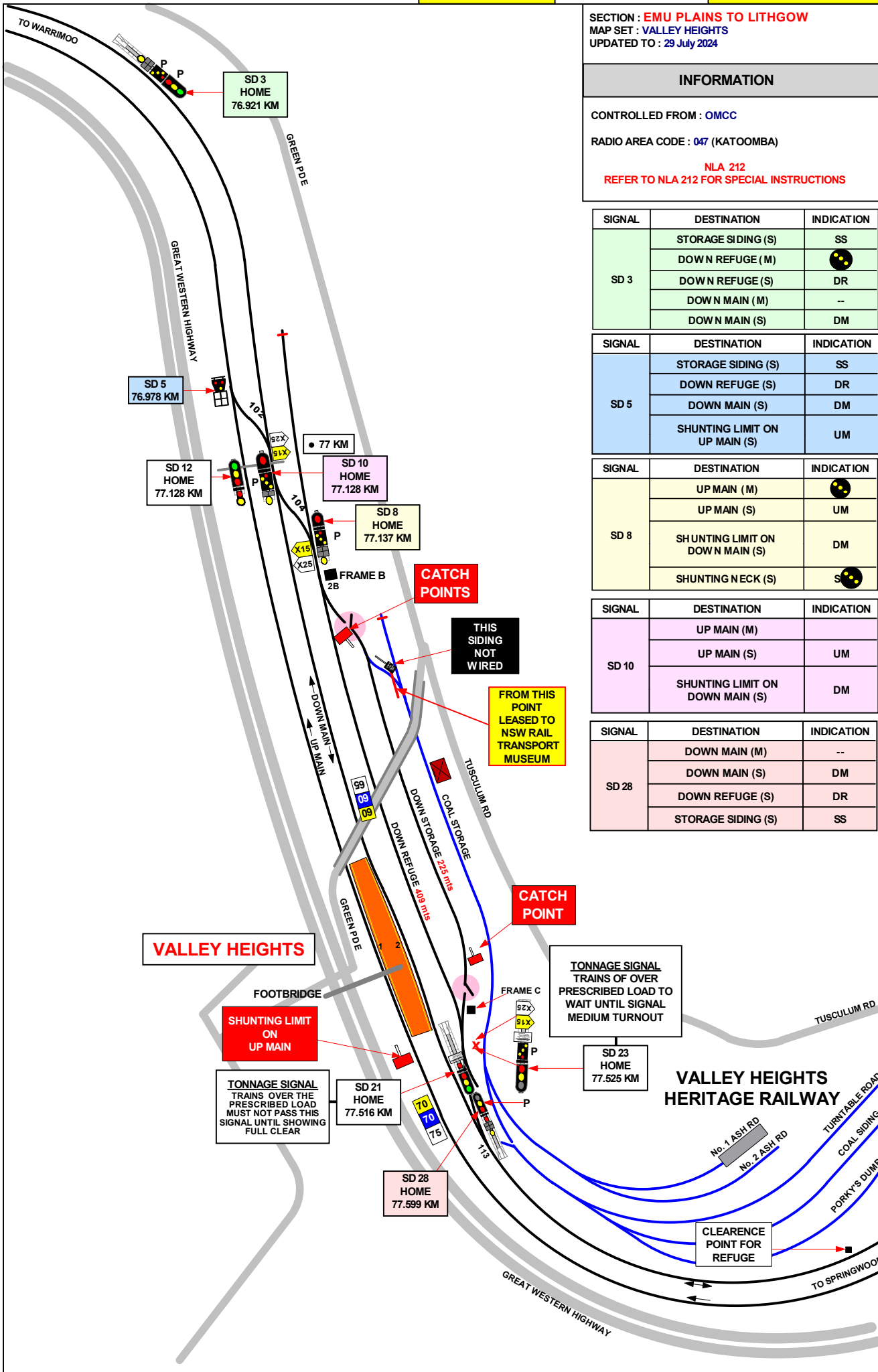
| SIGNAL | DESTINATION | INDICATION |
|--------|--------------------|------------|
| SD 3 | STORAGE SIDING (S) | SS |
| | DOWN REFUGE (M) | |
| | DOWN REFUGE (S) | DR |
| | DOWN MAIN (M) | -- |
| | DOWN MAIN (S) | DM |

| 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) | |

| 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 : 29 July 2024

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) | ☀ |

GRADIENT

1 IN 33

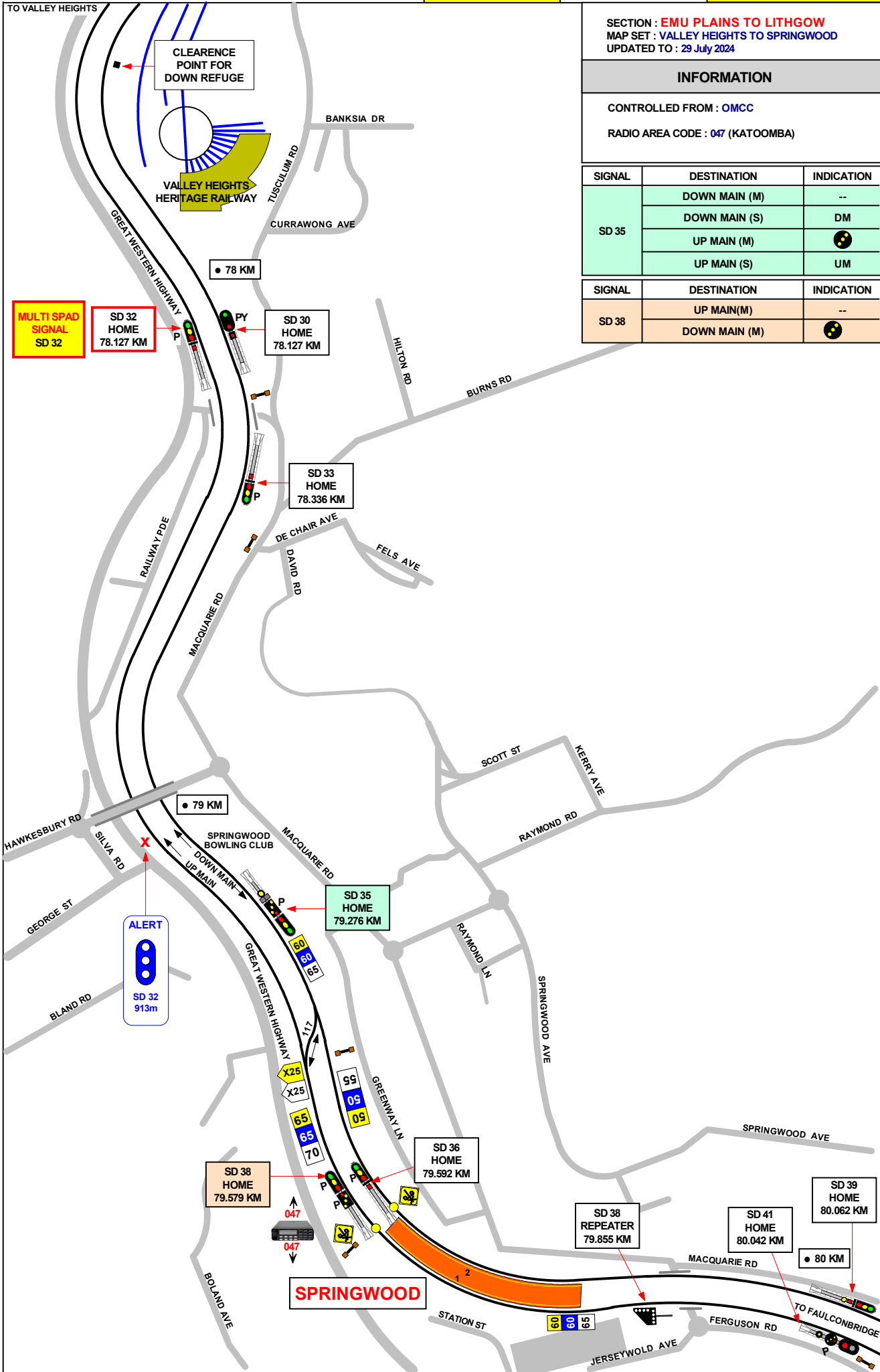
LEVEL

1 IN 33

LEVEL

1 IN 33

LEVEL



MULTI SPAD SIGNAL
SD 32

SD 32 HOME
78.127 KM

SD 30 HOME
78.127 KM

SD 33 HOME
78.336 KM

SD 35 HOME
79.276 KM

SD 36 HOME
79.592 KM

SD 38 HOME
79.579 KM

SD 38 REPEATER
79.855 KM

SD 41 HOME
80.042 KM

SD 39 HOME
80.062 KM

SPRINGWOOD

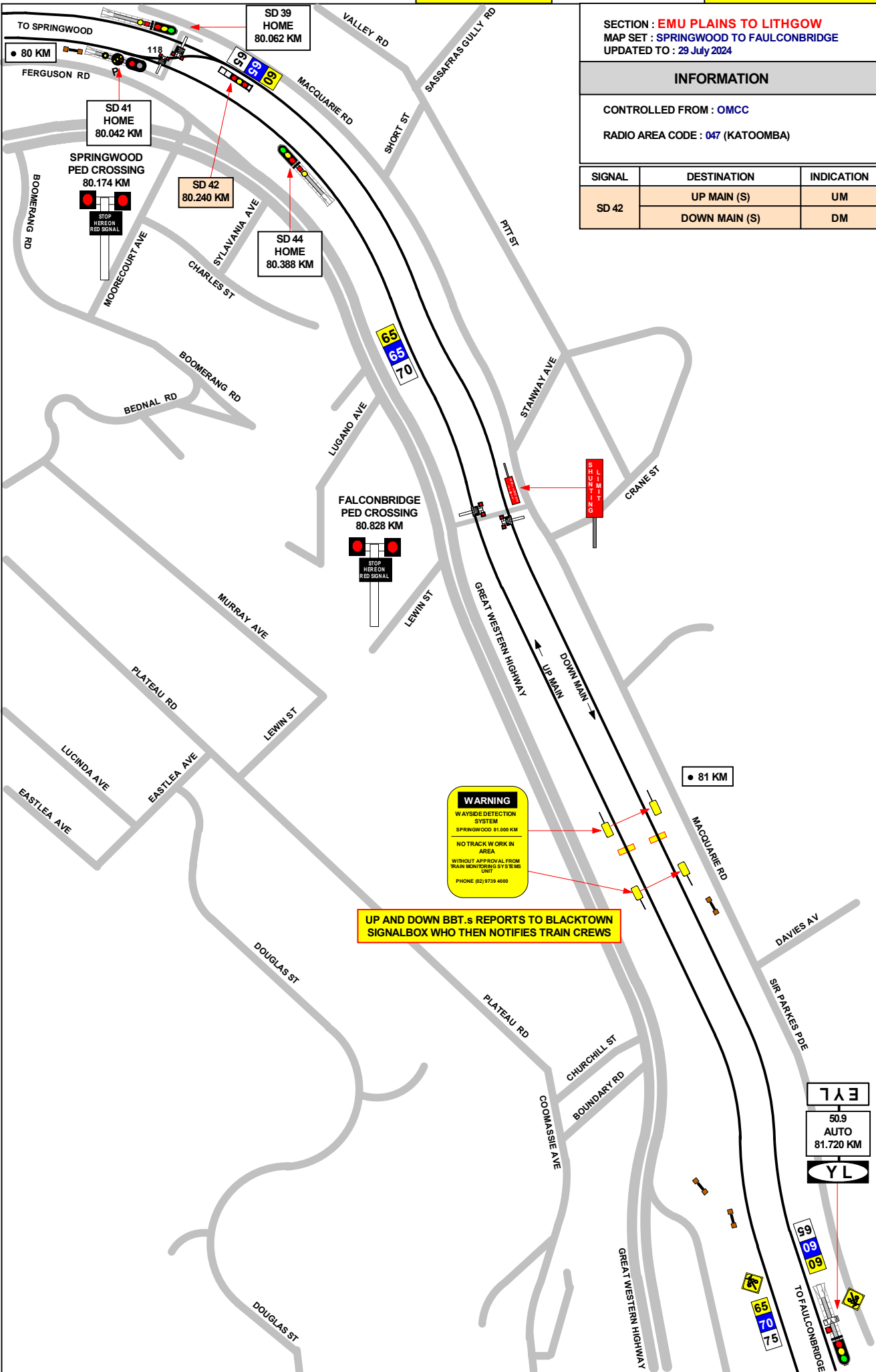
| GRADIENT |
|----------|
| LEVEL |
| 1 IN 40 |
| 1 IN 33 |
| 1 IN 66 |
| 1 IN 33 |
| 1 IN 31 |

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 |



WARNING
 WAYSIDE DETECTION SYSTEM
 SPRINGWOOD 81.000 KM
 NO TRACK WORK IN AREA
 WITHOUT APPROVAL FROM TRAIN MONITORING SYSTEMS UNIT
 PHONE (02) 9739 4000

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)

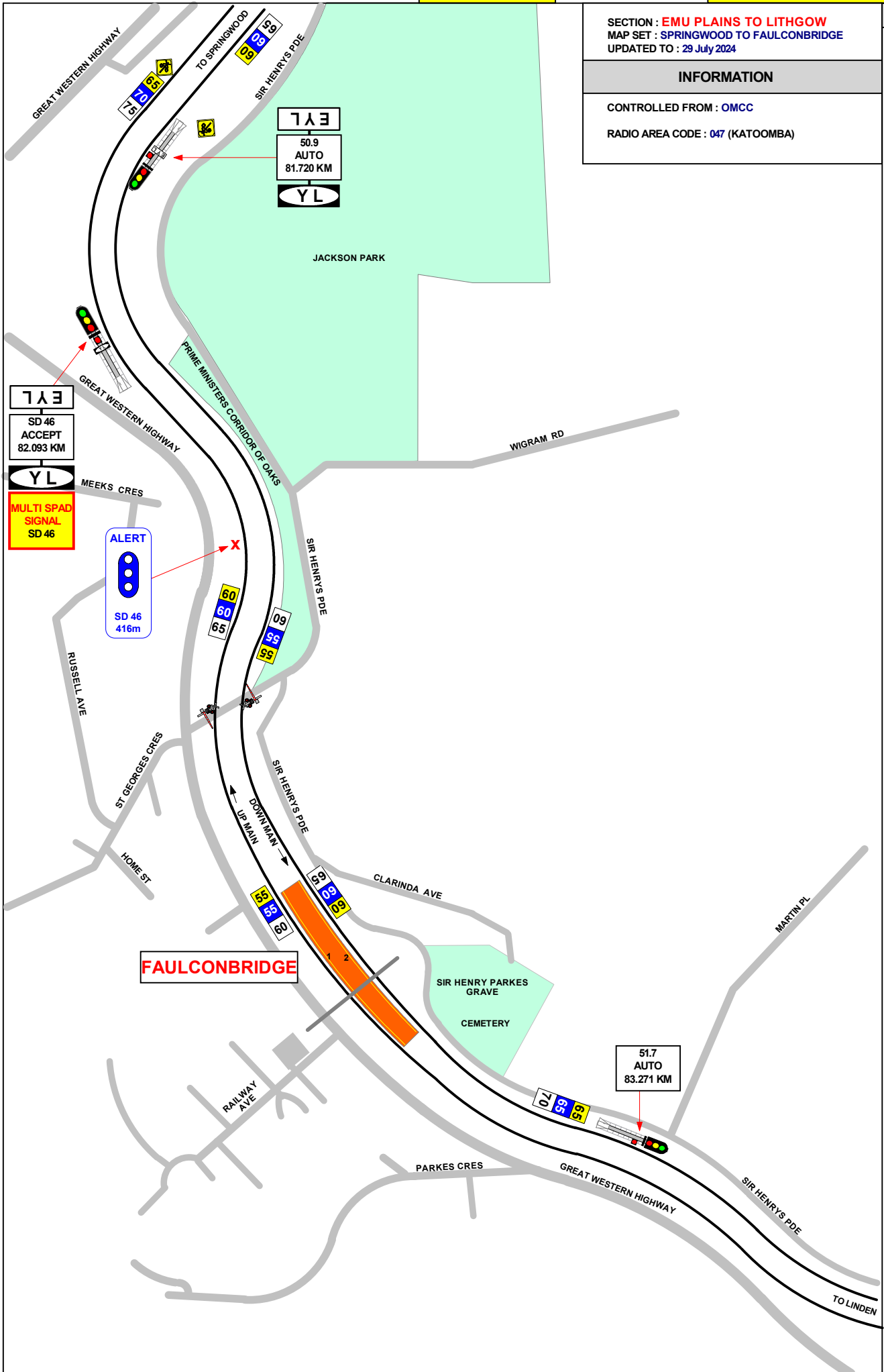
GRADIENT

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

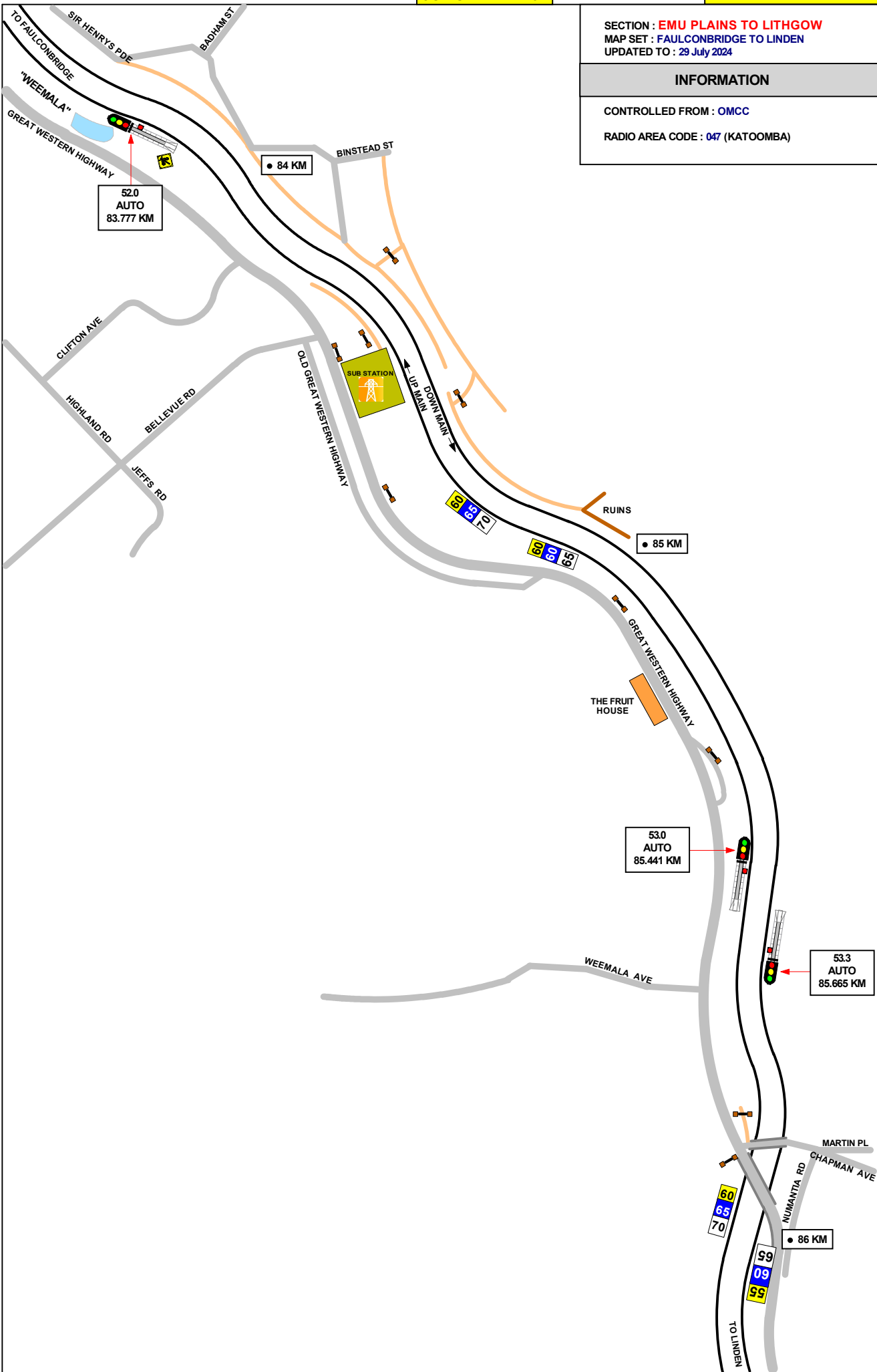
CONTROLLED FROM : **OMCC**
 RADIO AREA CODE : **047 (KATOOMBA)**

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)

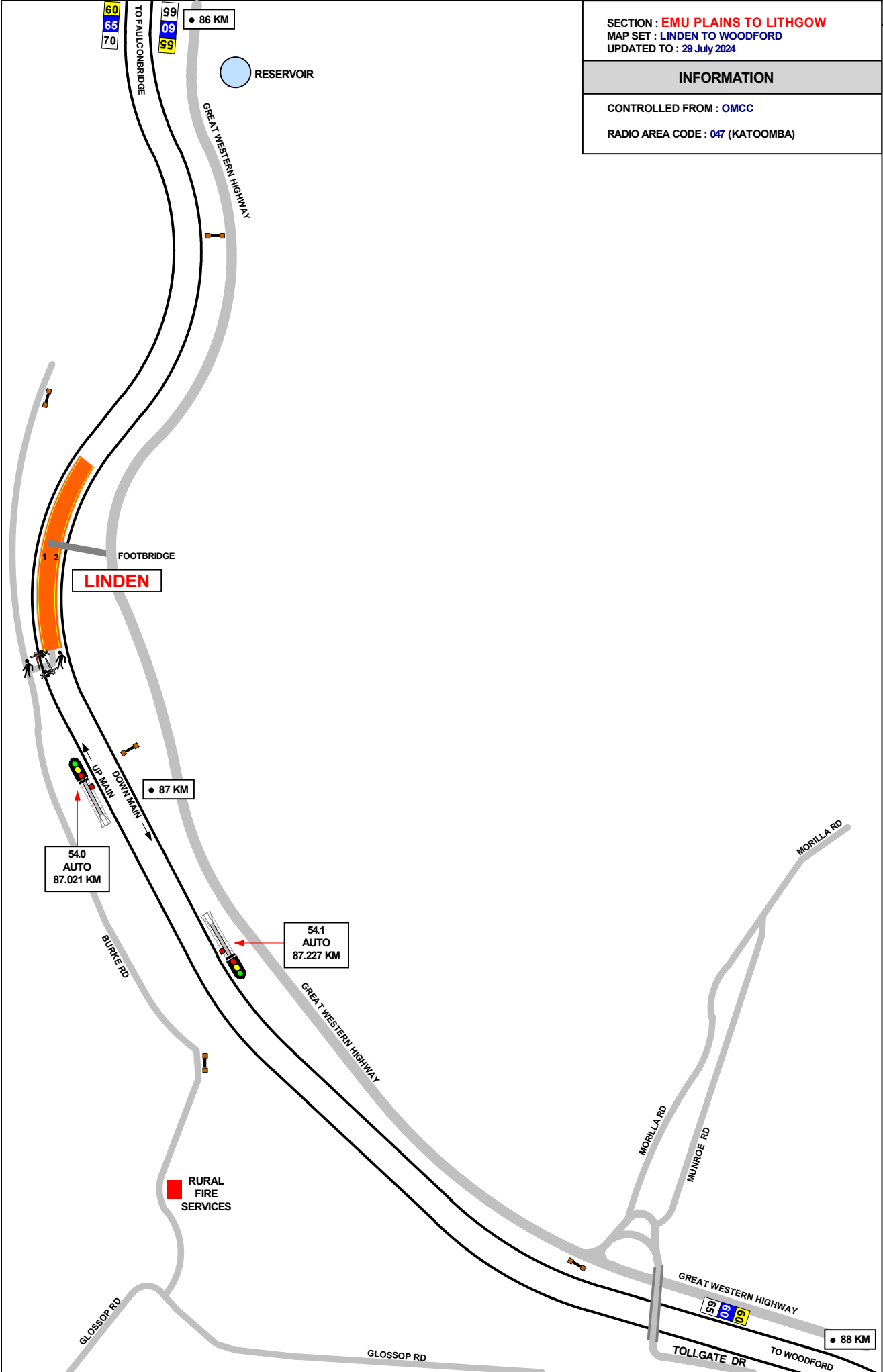
GRADIENT

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

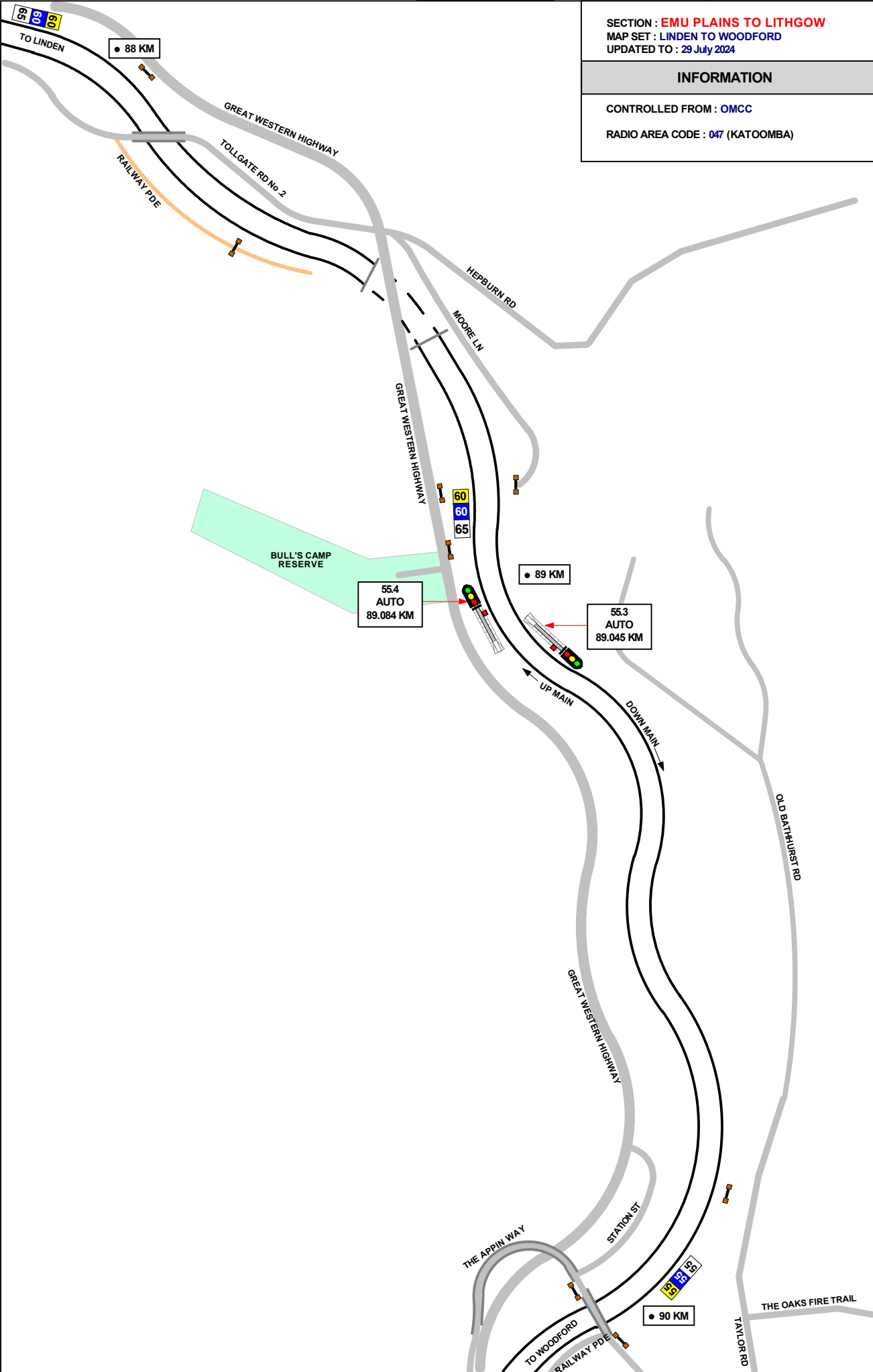
1 IN 40

1 IN 66

1 IN 51

1 IN 50

1 IN 54



GRADIENT

1 IN 54

1 IN 33

1 IN 48

LEVEL

WOODFORD

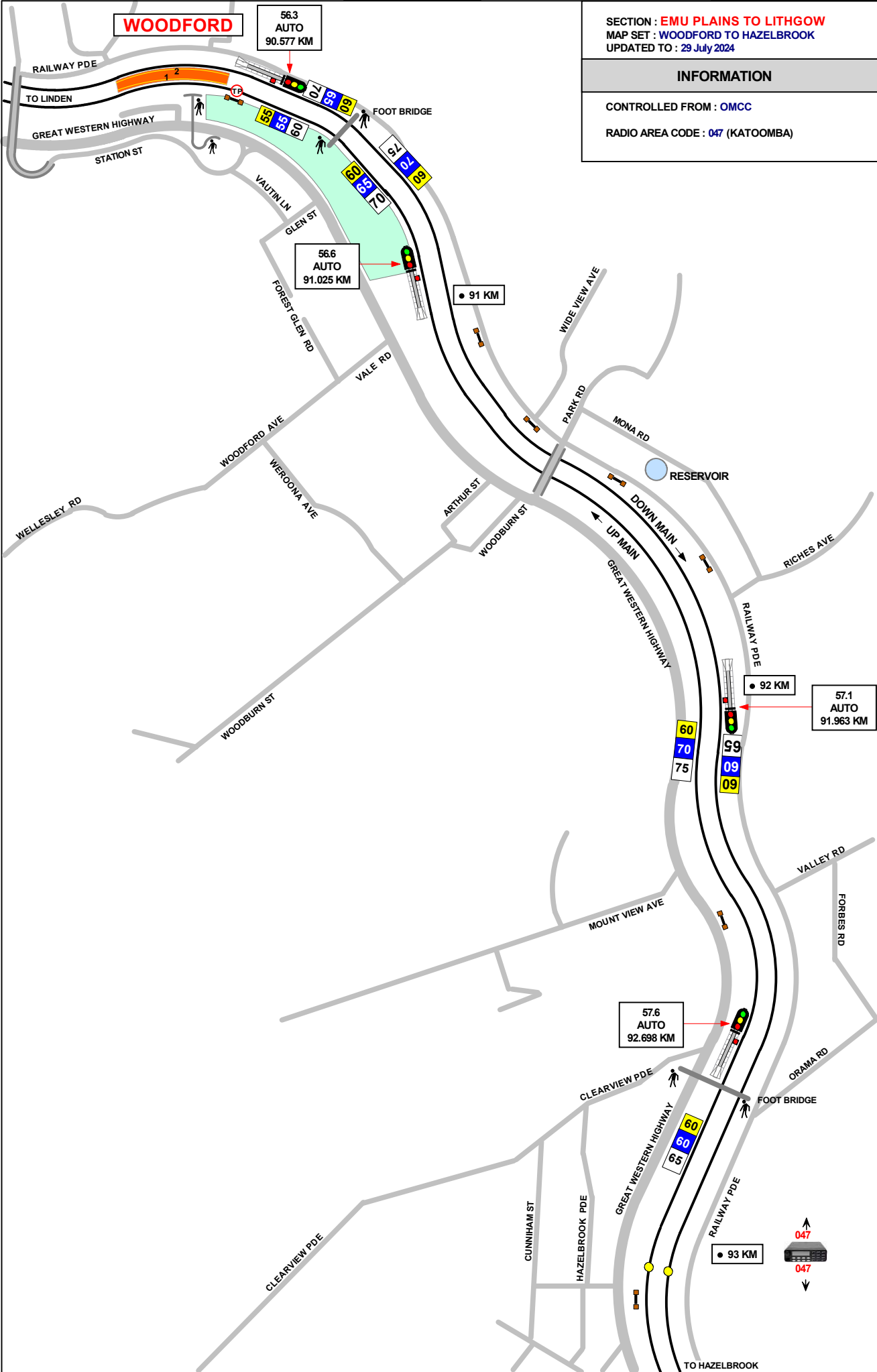
56.3 AUTO
90.577 KM

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

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

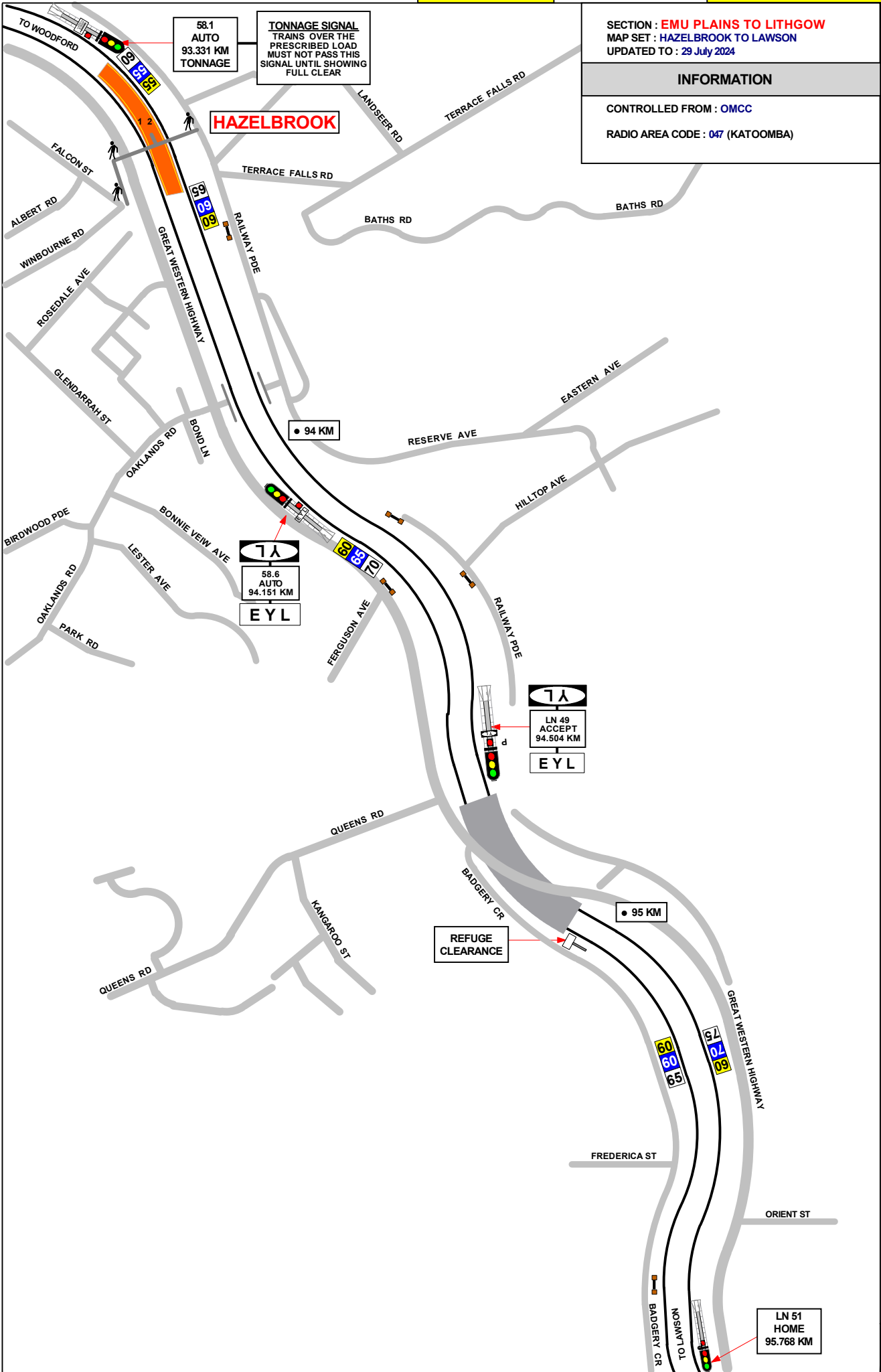
58.6
AUTO
94.151 KM
EYL

LN 49
ACCEPT
94.504 KM
EYL

95 KM

REFUGE
CLEARANCE

LN 51
HOME
95.768 KM



TO HAZELBROOK

GRADIENT

SECTION : EMU PLAINS TO LITHGOW
 MAP SET : LAWSON TO BULLABURRA
 UPDATED TO : 9 December 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

NLA 212
 REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

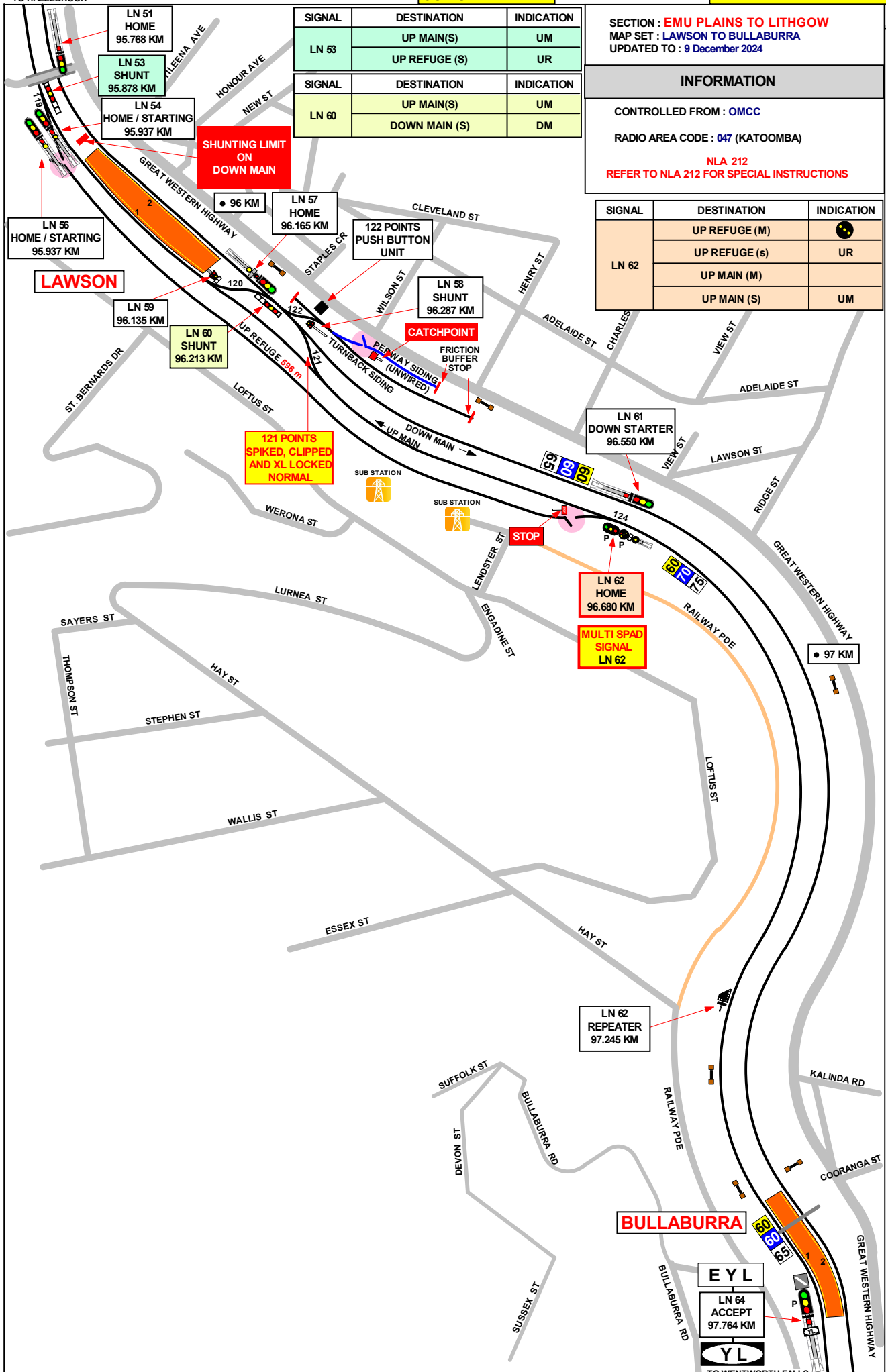
| SIGNAL | DESTINATION | INDICATION |
|--------|---------------|------------|
| LN 53 | UP MAIN(S) | UM |
| | UP REFUGE (S) | UR |
| SIGNAL | DESTINATION | INDICATION |
| LN 60 | UP MAIN(S) | UM |
| | DOWN MAIN (S) | DM |

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

LEVEL

1 IN 33

1 IN 66



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

INFORMATION

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

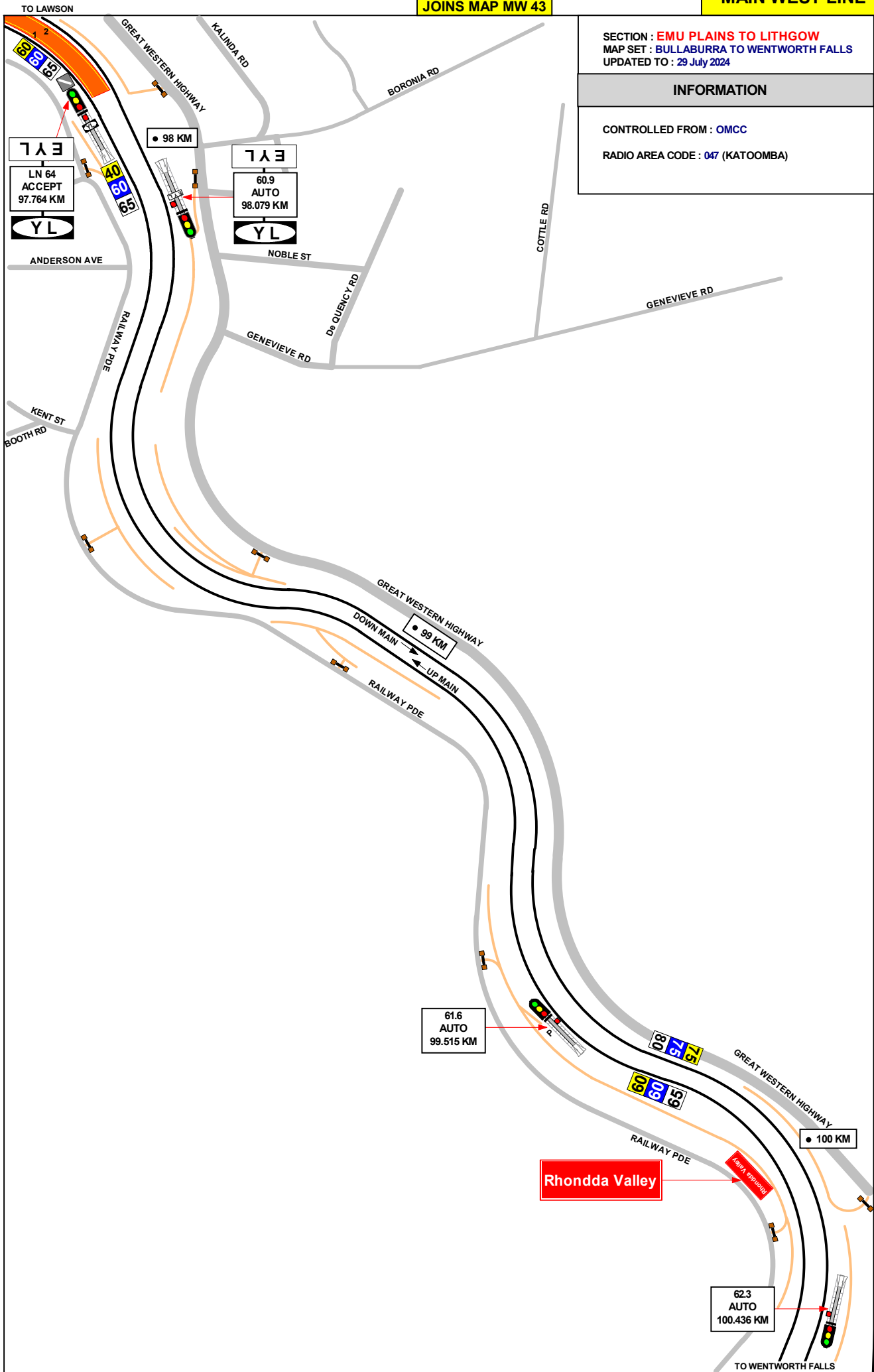
GRADIENT

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 : 2 September 2024

INFORMATION

CONTROLLED FROM : OMCC
RADIO AREA CODE : 047 (KATOOMBA)
NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

GRADIENT

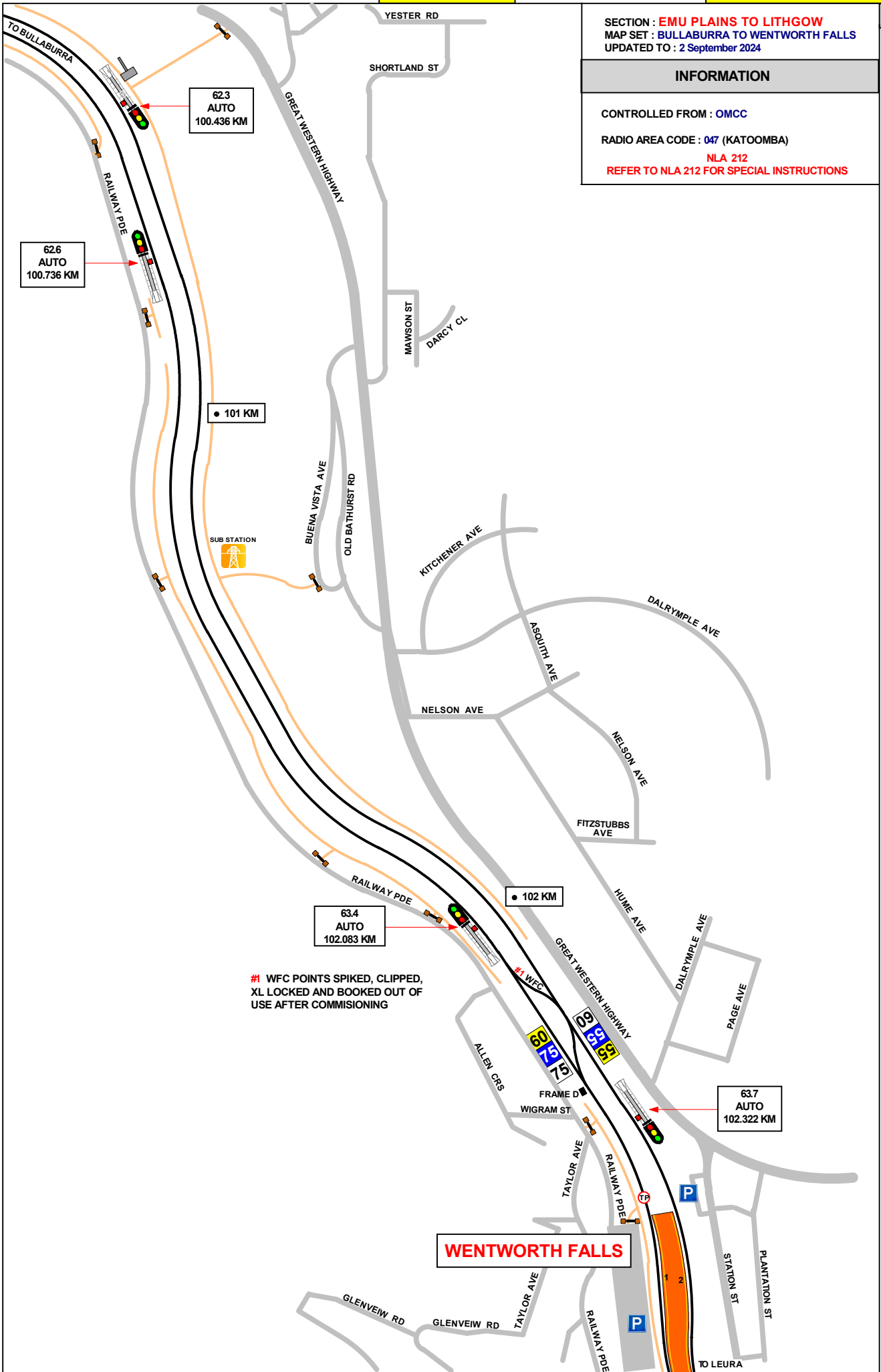
1 IN 33

1 IN 73

LEVEL

1 IN 330

LEVEL



SECTION : EMU PLAINS TO LITHGOW
MAP SET : WENTWORTH FALLS TO LEURA
UPDATED TO : 2 September 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 047 (KATOOMBA)

GRADIENT

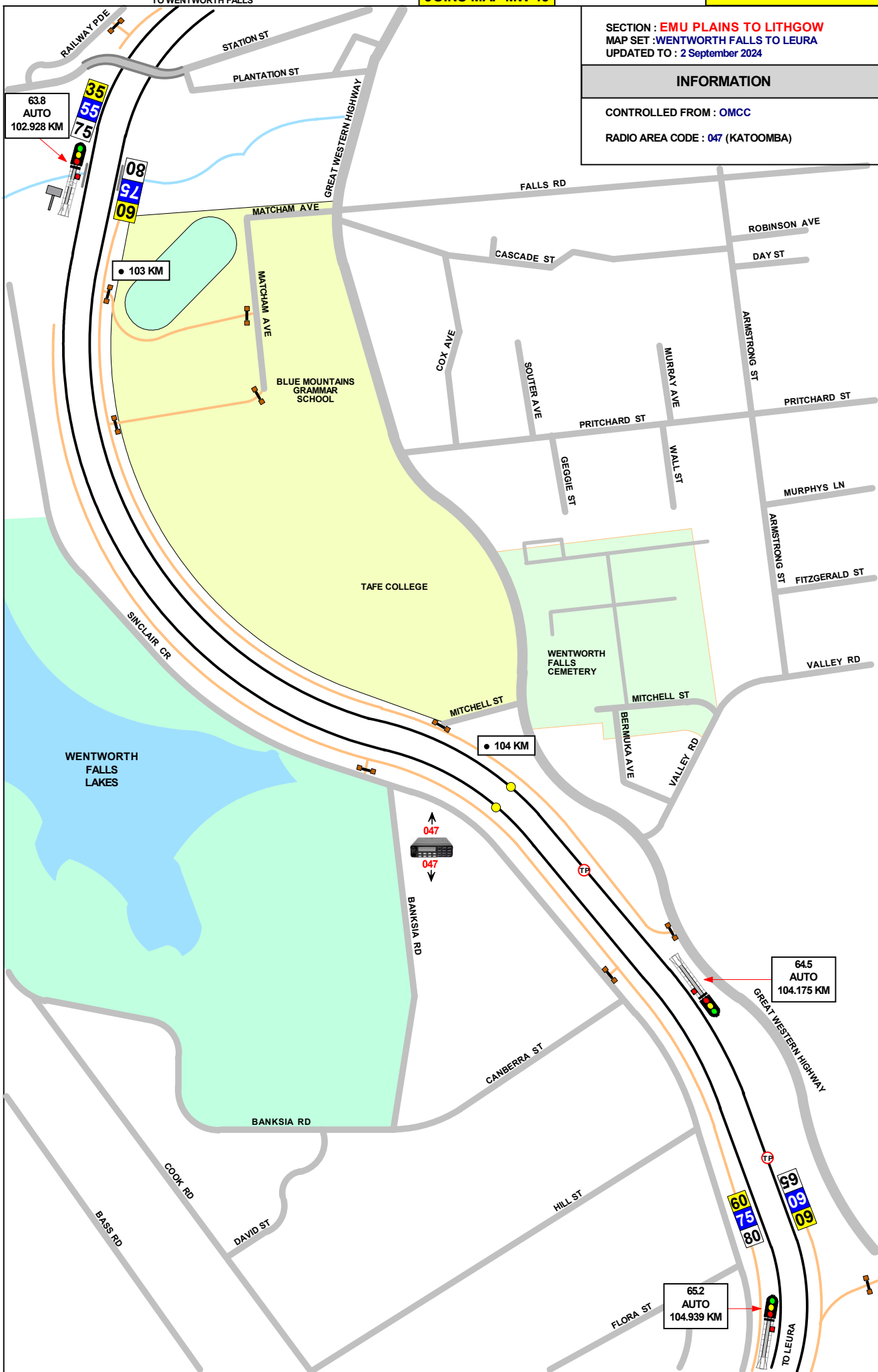
LEVEL

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

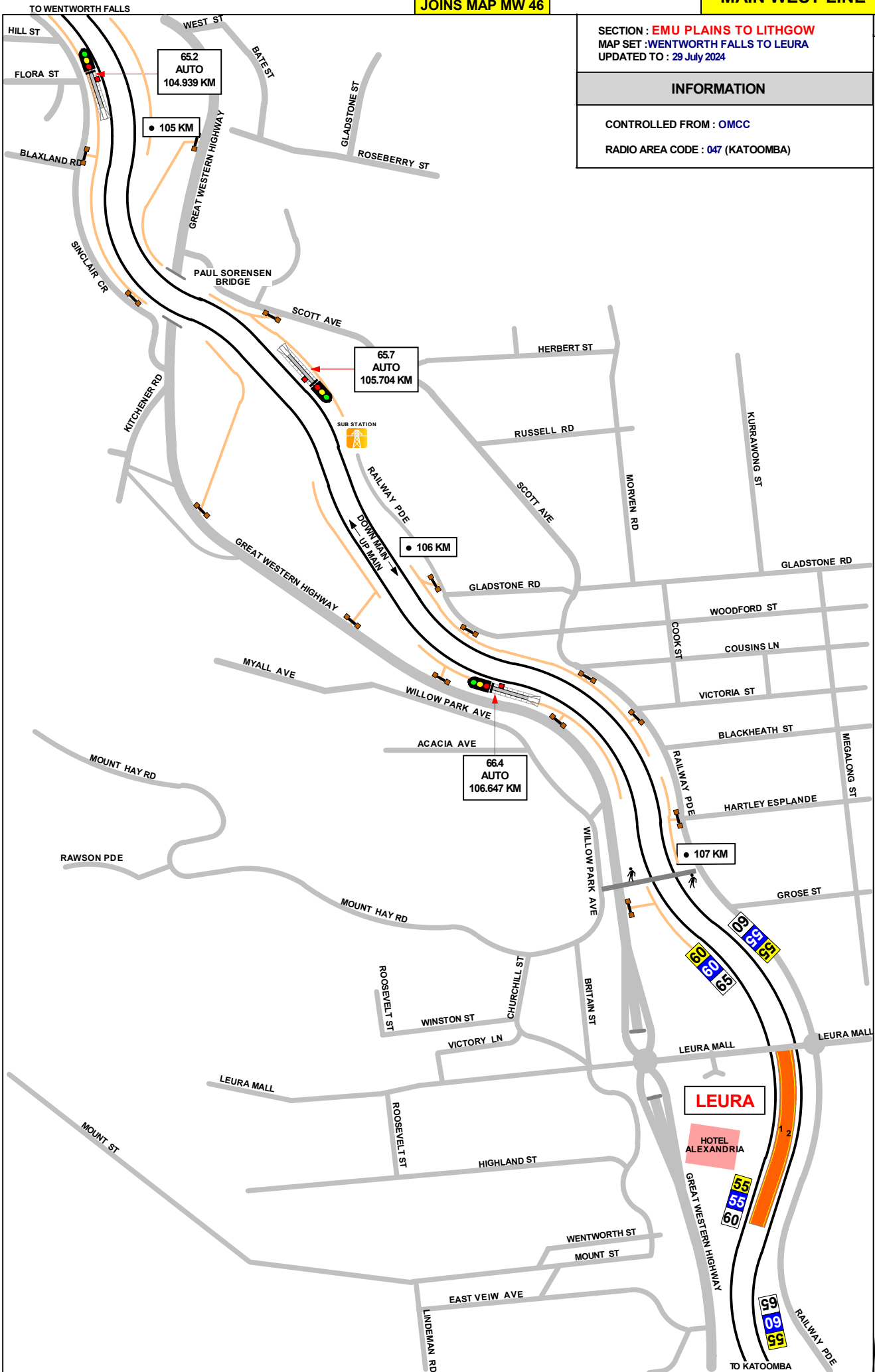
RADIO AREA CODE : 047 (KATOOMBA)

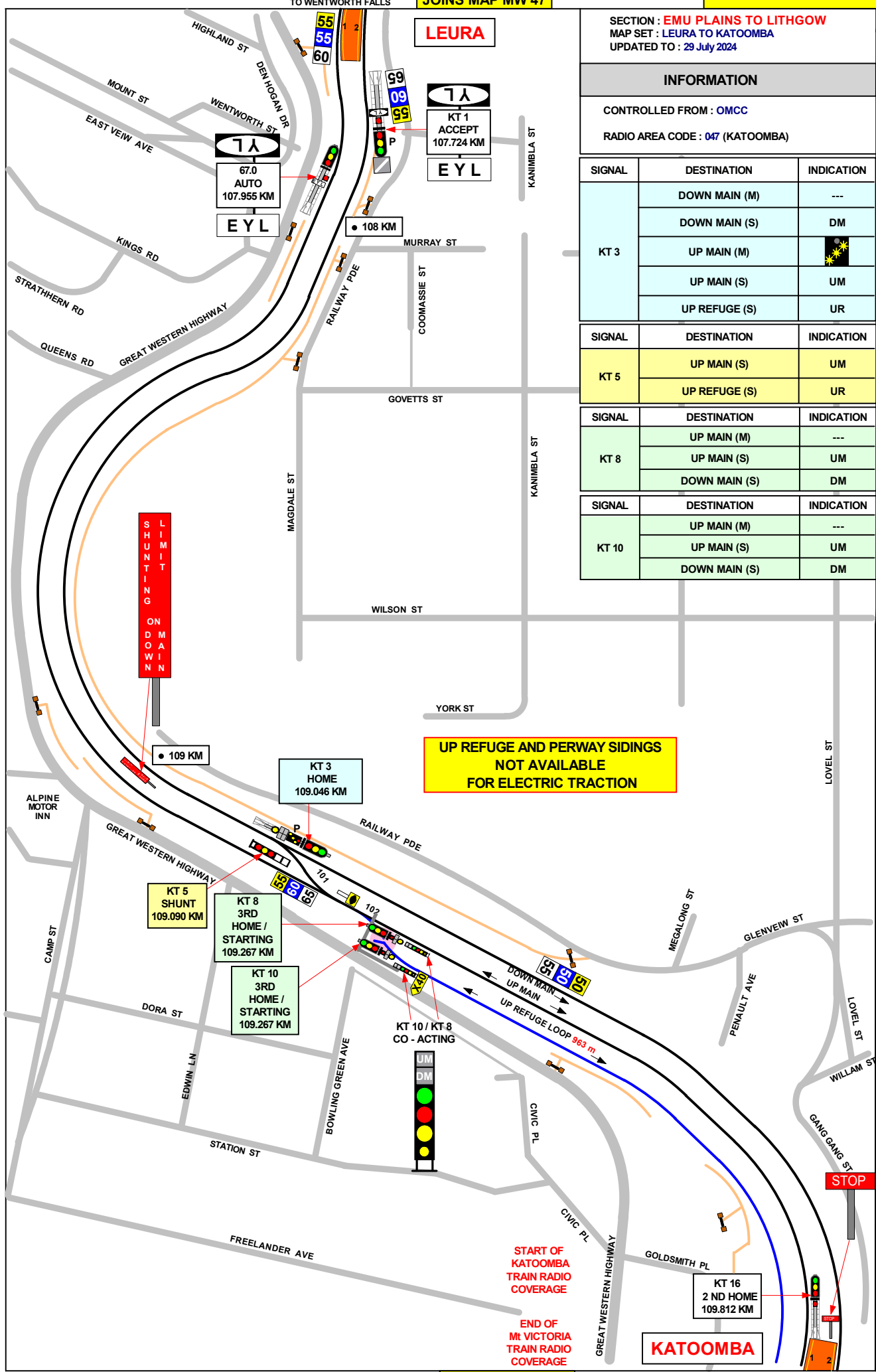
GRADIENT

1 IN 33

LEVEL

1 IN 33





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

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 |

| SIGNAL | DESTINATION | INDICATION |
|--------|---------------|------------|
| KT 5 | UP MAIN (S) | UM |
| | UP REFUGE (S) | UR |

| SIGNAL | DESTINATION | INDICATION |
|--------|---------------|------------|
| KT 8 | UP MAIN (M) | --- |
| | UP MAIN (S) | UM |
| | DOWN MAIN (S) | DM |

| SIGNAL | DESTINATION | INDICATION |
|--------|---------------|------------|
| KT 10 | UP MAIN (M) | --- |
| | UP MAIN (S) | UM |
| | DOWN MAIN (S) | DM |

UP REFUGE AND PERWAY SIDINGS NOT AVAILABLE FOR ELECTRIC TRACTION

START OF KATOOMBA TRAIN RADIO COVERAGE
 END OF Mt VICTORIA TRAIN RADIO COVERAGE

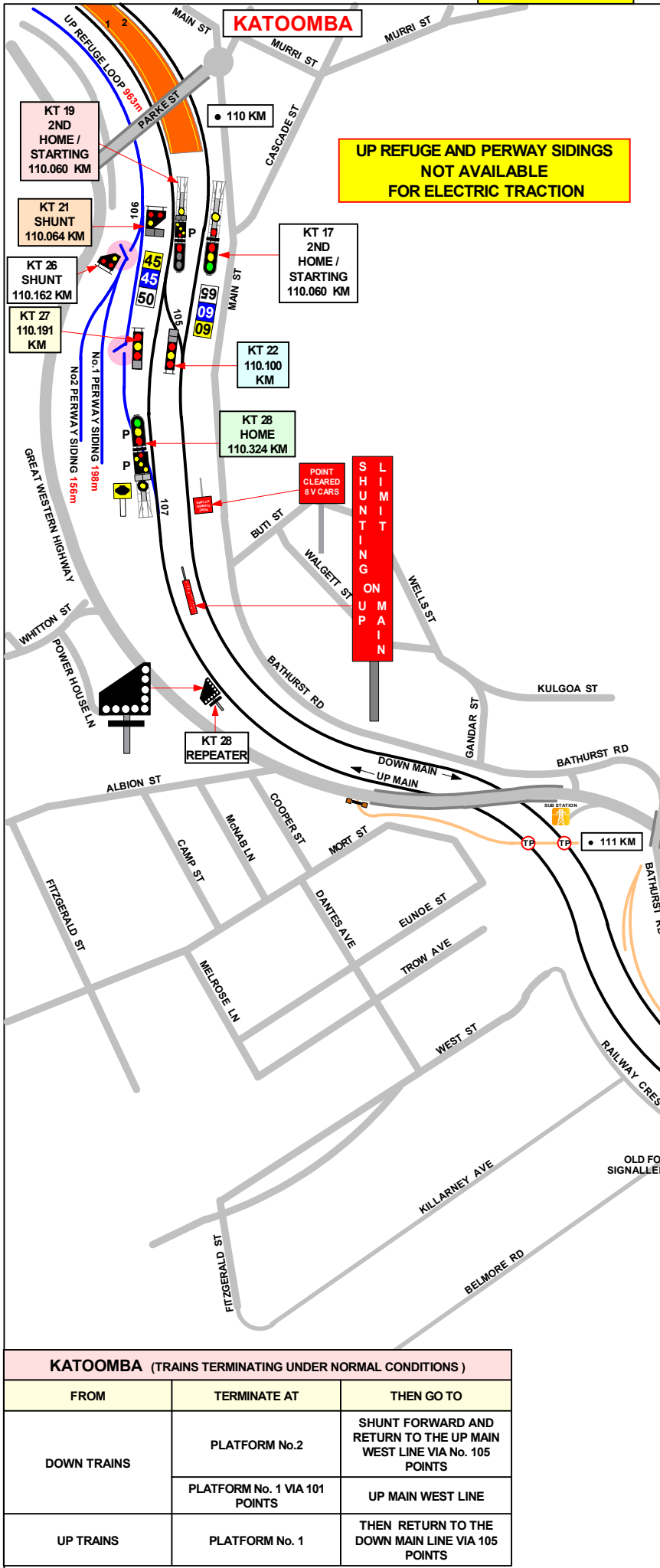
1 IN 33

LEVEL

STOP

KATOOMBA

TO KATOOMBA



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)

NLA 214
 REFER TO NLA 214 FOR MORE INSTRUCTIONS

| SIGNAL | DESTINATION | INDICATION |
|--------|-------------------|------------|
| KT 21 | UP REFUGE (S) | UR |
| | PERWAY SIDING (S) | PS |
| SIGNAL | DESTINATION | INDICATION |
| KT 19 | DOWN MAIN (M) | DM |
| | DOWN MAIN (S) | DM |
| | UP MAIN (S) | UM |
| SIGNAL | DESTINATION | INDICATION |
| KT 26 | UP REFUGE(S) | --- |
| | UP MAIN (S) | UM |
| KT 22 | UP MAIN (S) | UM |
| | DOWN MAIN (S) | DM |
| SIGNAL | DESTINATION | INDICATION |
| KT 28 | UP REFUGE (M) | UR |
| | UP REFUGE (S) | UR |
| | UP MAIN (S) | UM |
| SIGNAL | DESTINATION | INDICATION |
| KT 27 | 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)

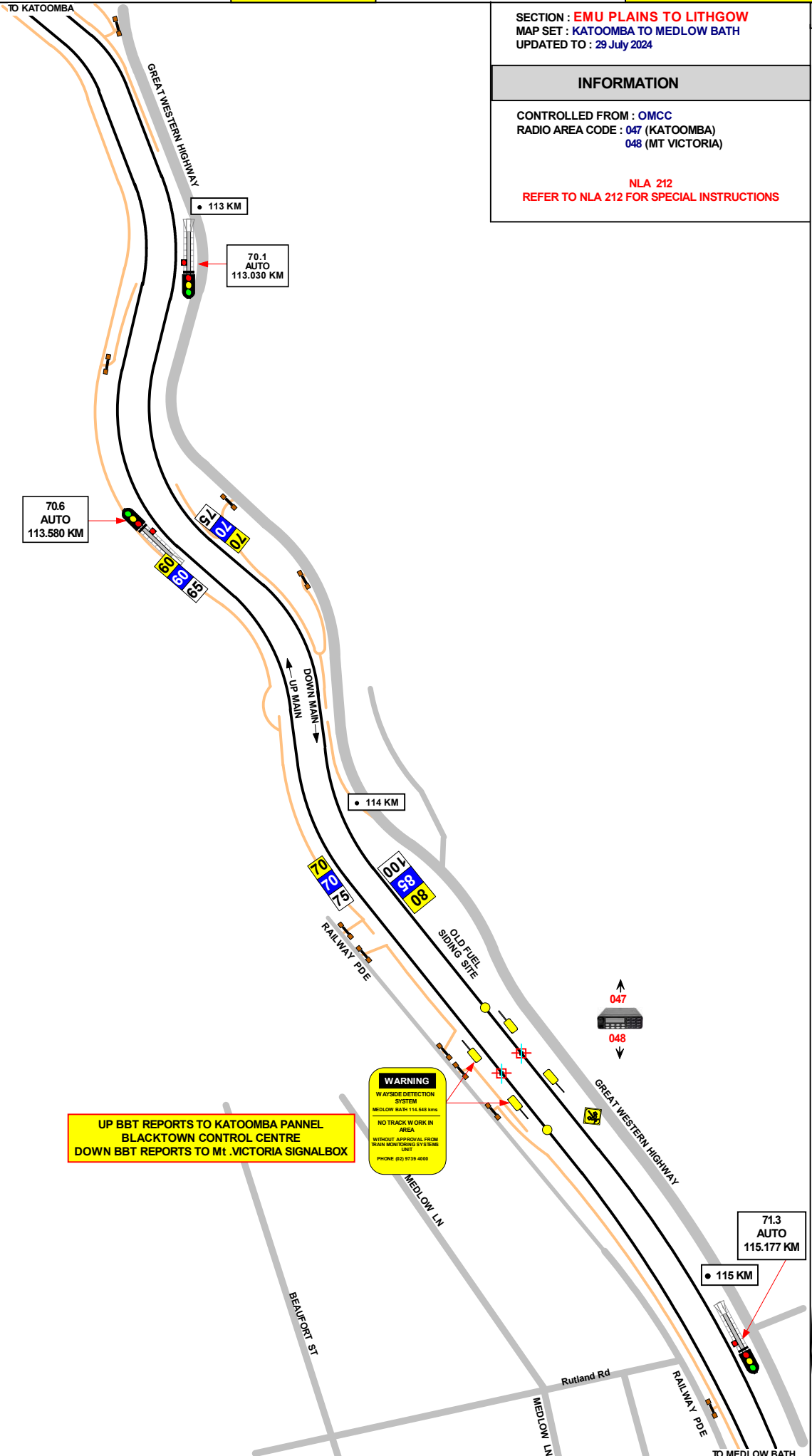
NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

1 IN 132

LEVEL

1 IN 66

1 IN 264



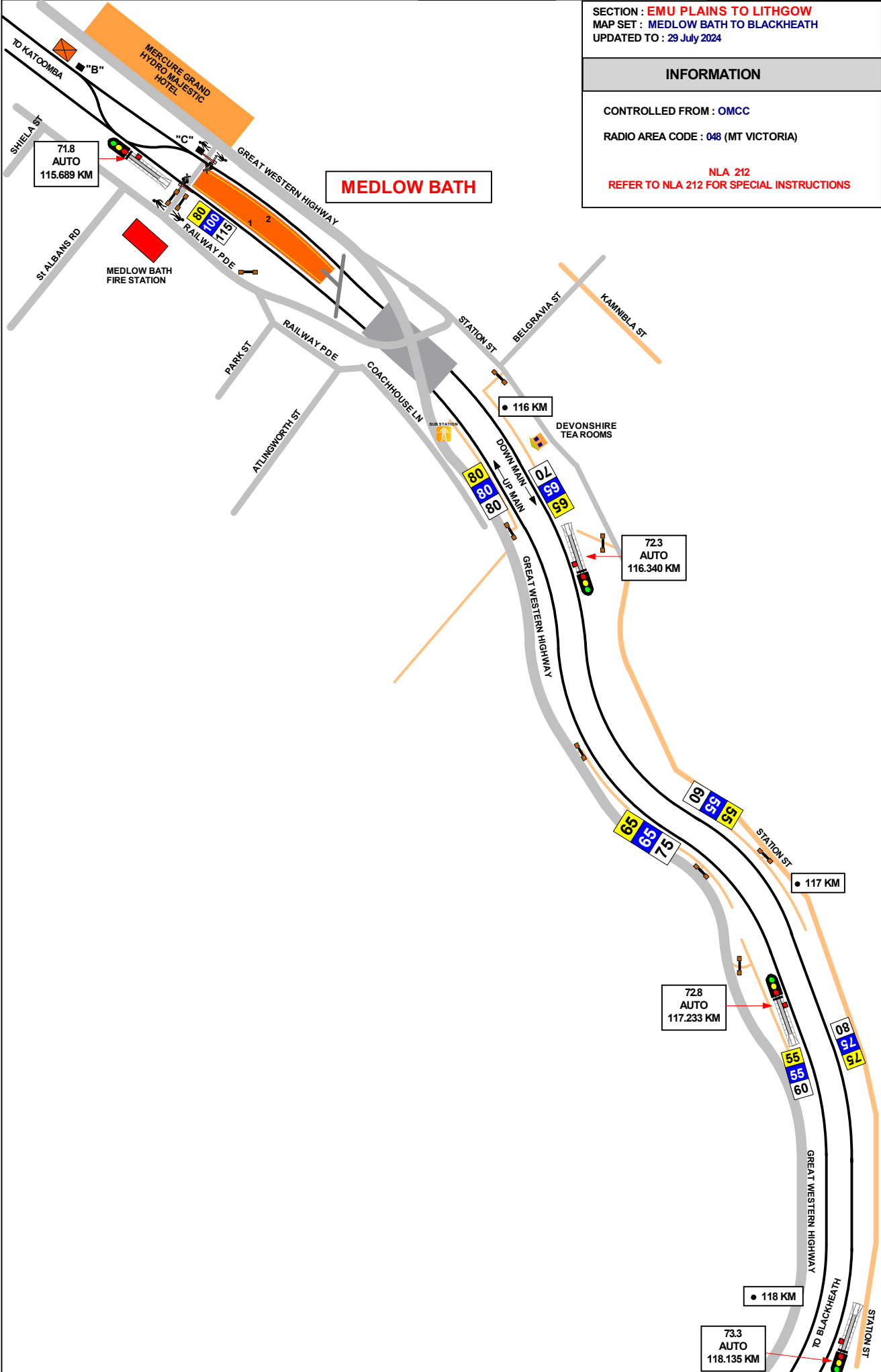
SECTION : EMU PLAINS TO LITHGOW
 MAP SET : MEDLOW BATH TO BLACKHEATH
 UPDATED TO : 29 July 2024

INFORMATION

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

NLA 212
 REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

| GRADIENT |
|----------|
| 1 IN 264 |
| 1 IN 66 |
| 1 IN 88 |
| LEVEL |



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

GRADIENT

INFORMATION

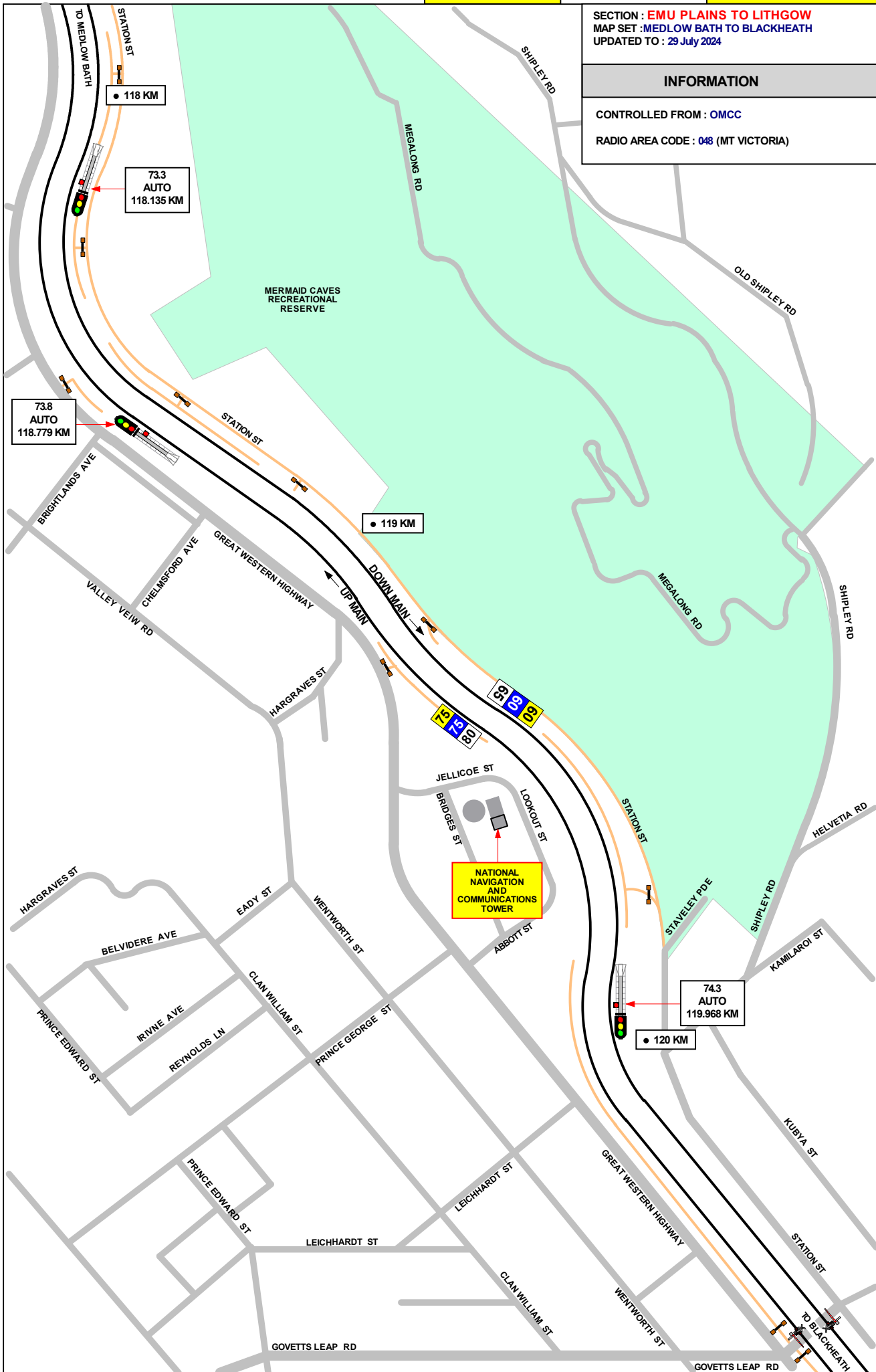
CONTROLLED FROM : OMCC

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

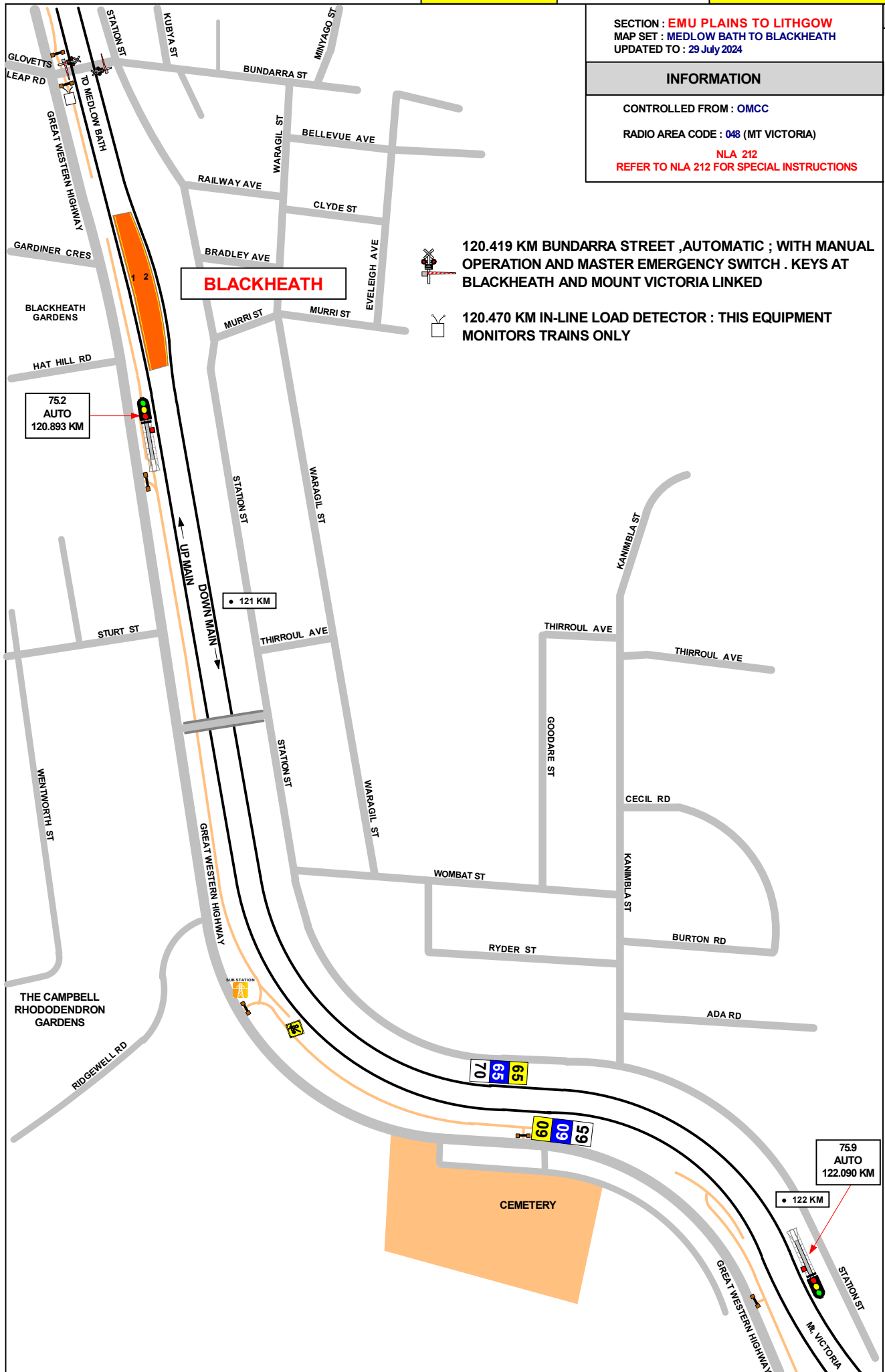
RADIO AREA CODE : 048 (MT VICTORIA)

NLA 212
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

GRADIENT

LEVEL

1 IN 200



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

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

INFORMATION

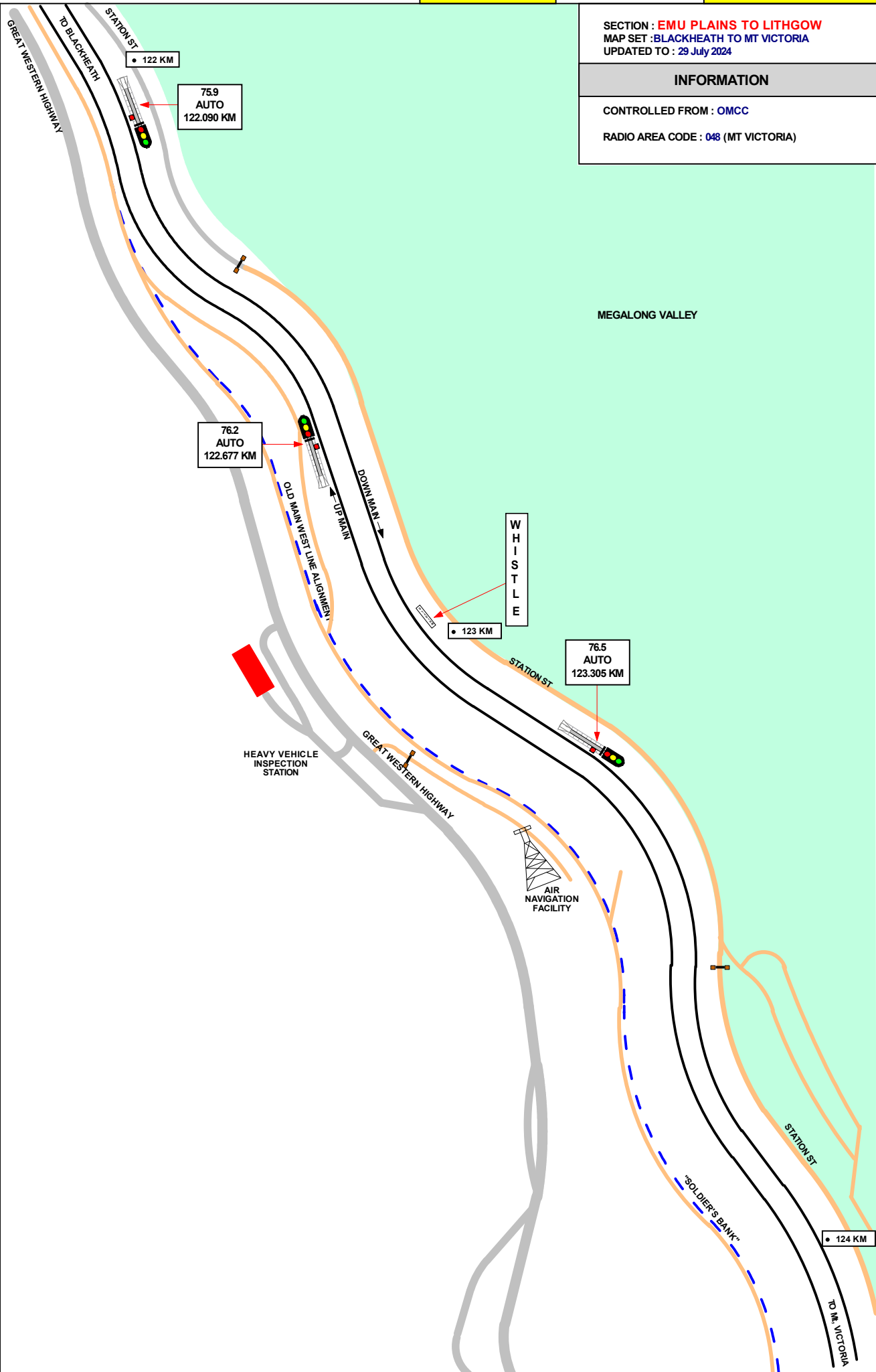
CONTROLLED FROM : OMCC

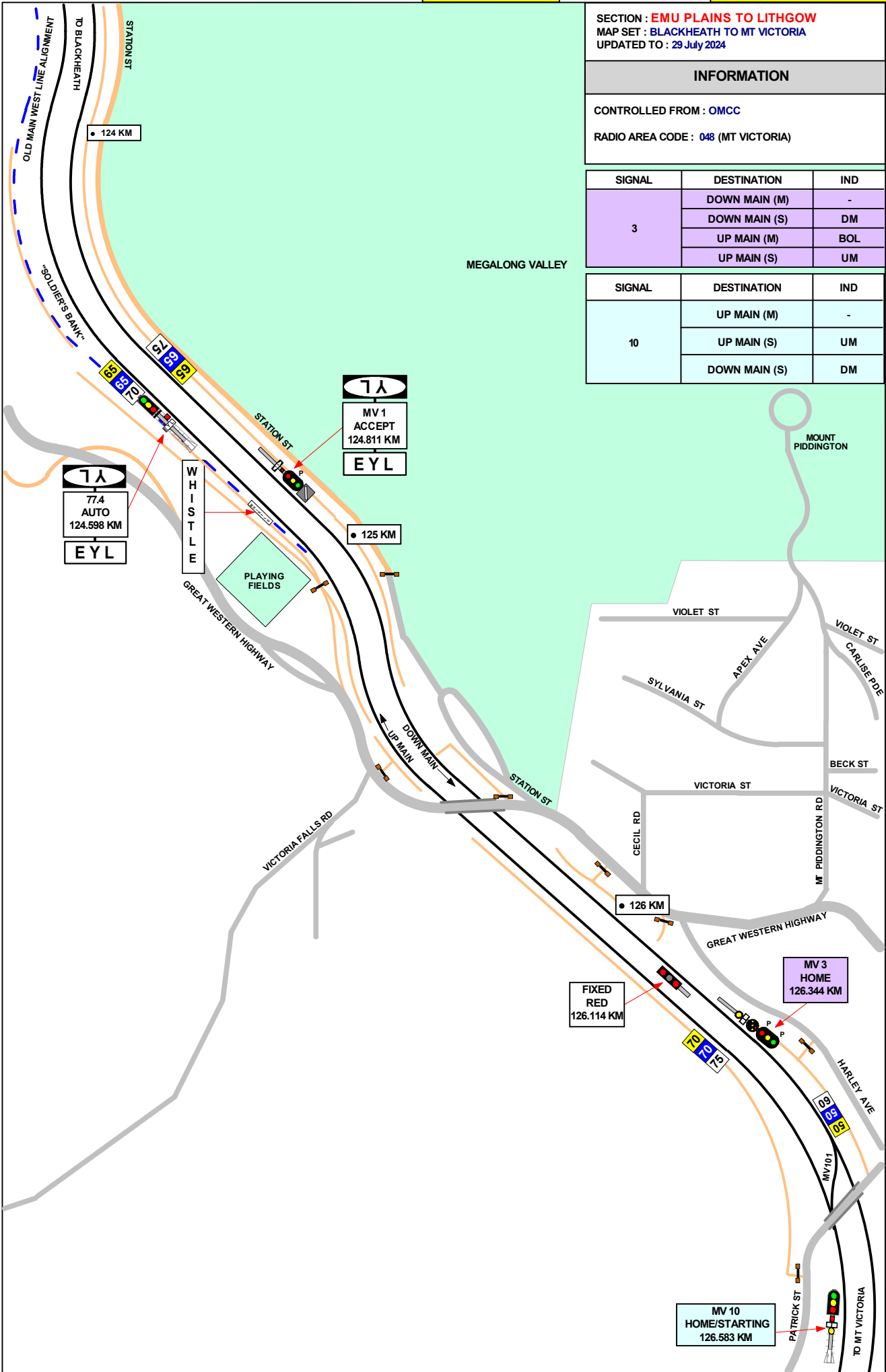
RADIO AREA CODE : 048 (MT VICTORIA)

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

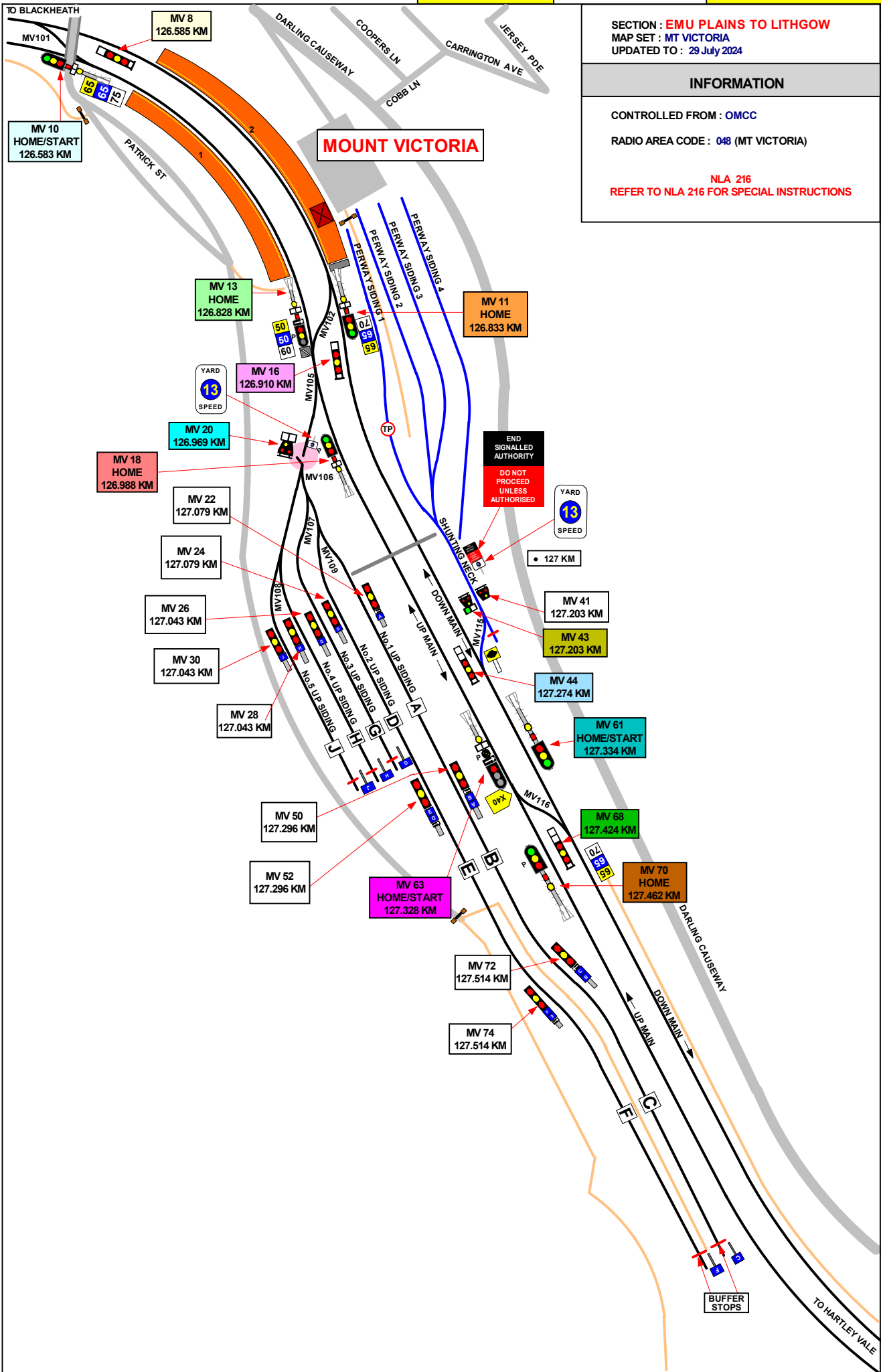
SECTION : EMU PLAINS TO LITHGOW
MAP SET : MT VICTORIA
UPDATED TO : 29 July 2024

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

NLA 216
REFER TO NLA 216 FOR SPECIAL INSTRUCTIONS



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

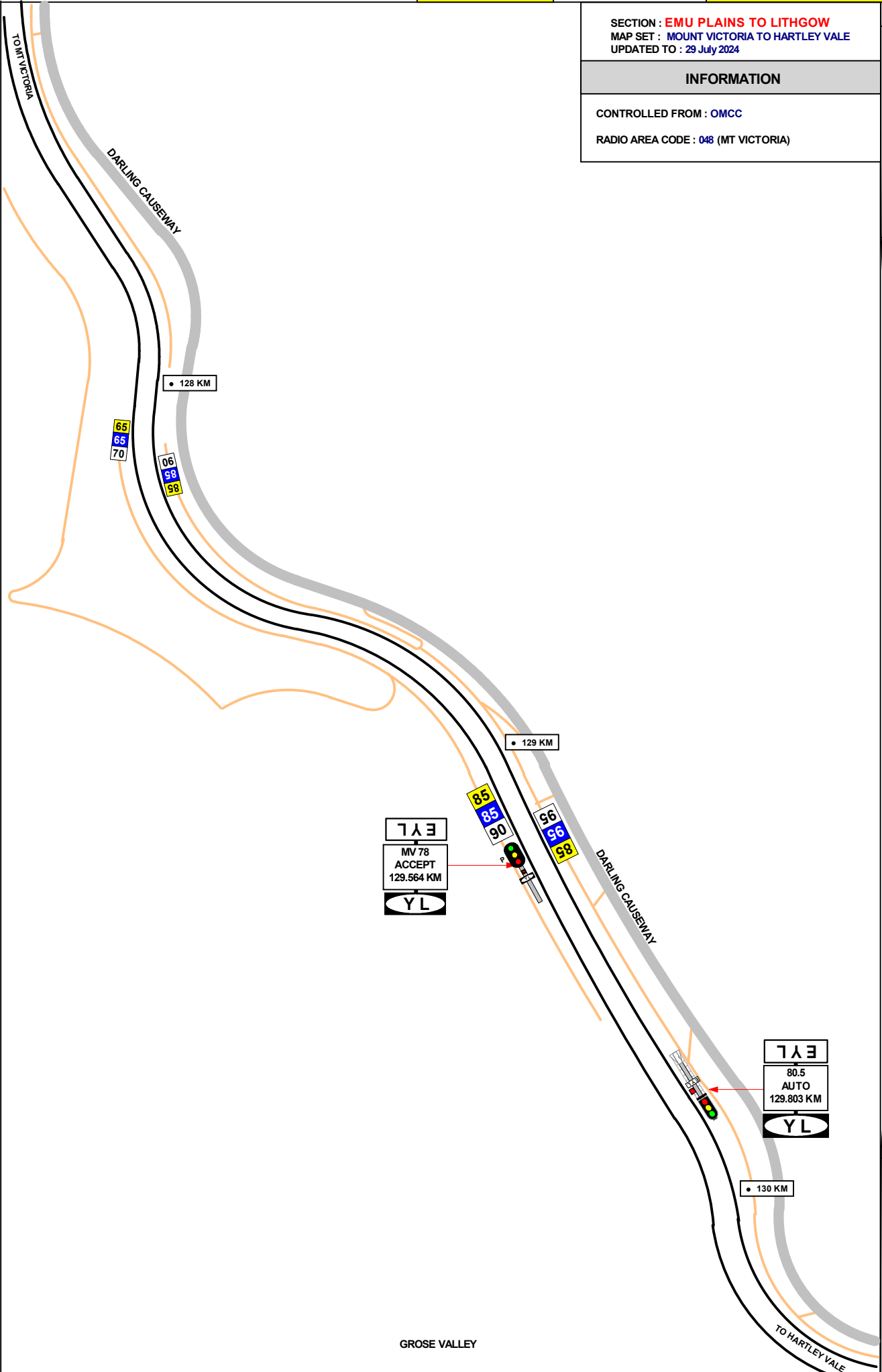
LEVEL

1 IN 99

LEVEL

1 IN 100

LEVEL



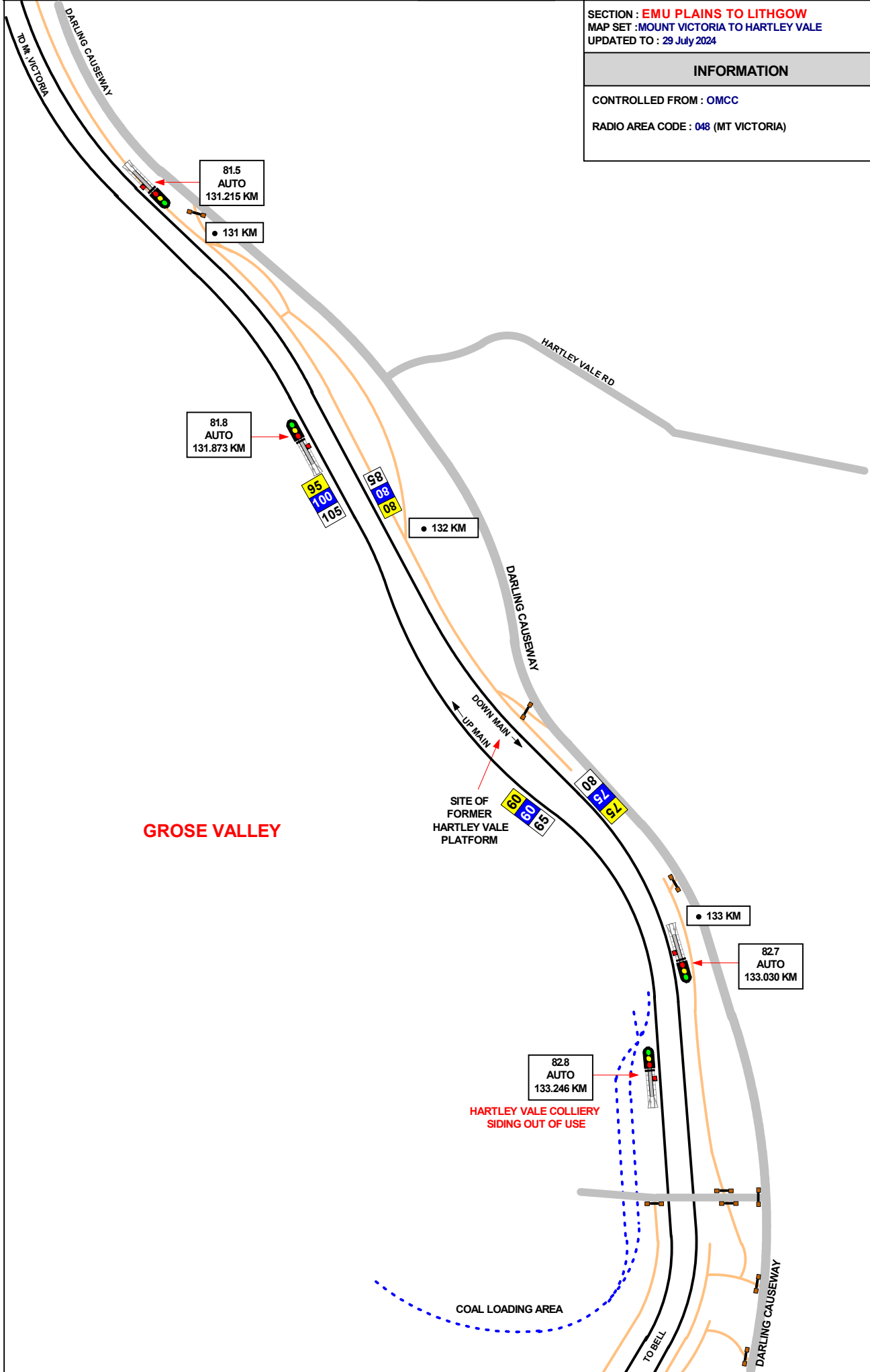
SECTION : EMU PLAINS TO LITHGOW
MAP SET : MOUNT VICTORIA TO HARTLEY VALE
UPDATED TO : 29 July 2024

| GRADIENT |
|----------|
| 1 IN 100 |
| 1 IN 90 |
| 1 IN 109 |
| LEVEL |
| 1 IN 70 |

INFORMATION

CONTROLLED FROM : OMCC

RADIO AREA CODE : 048 (MT VICTORIA)



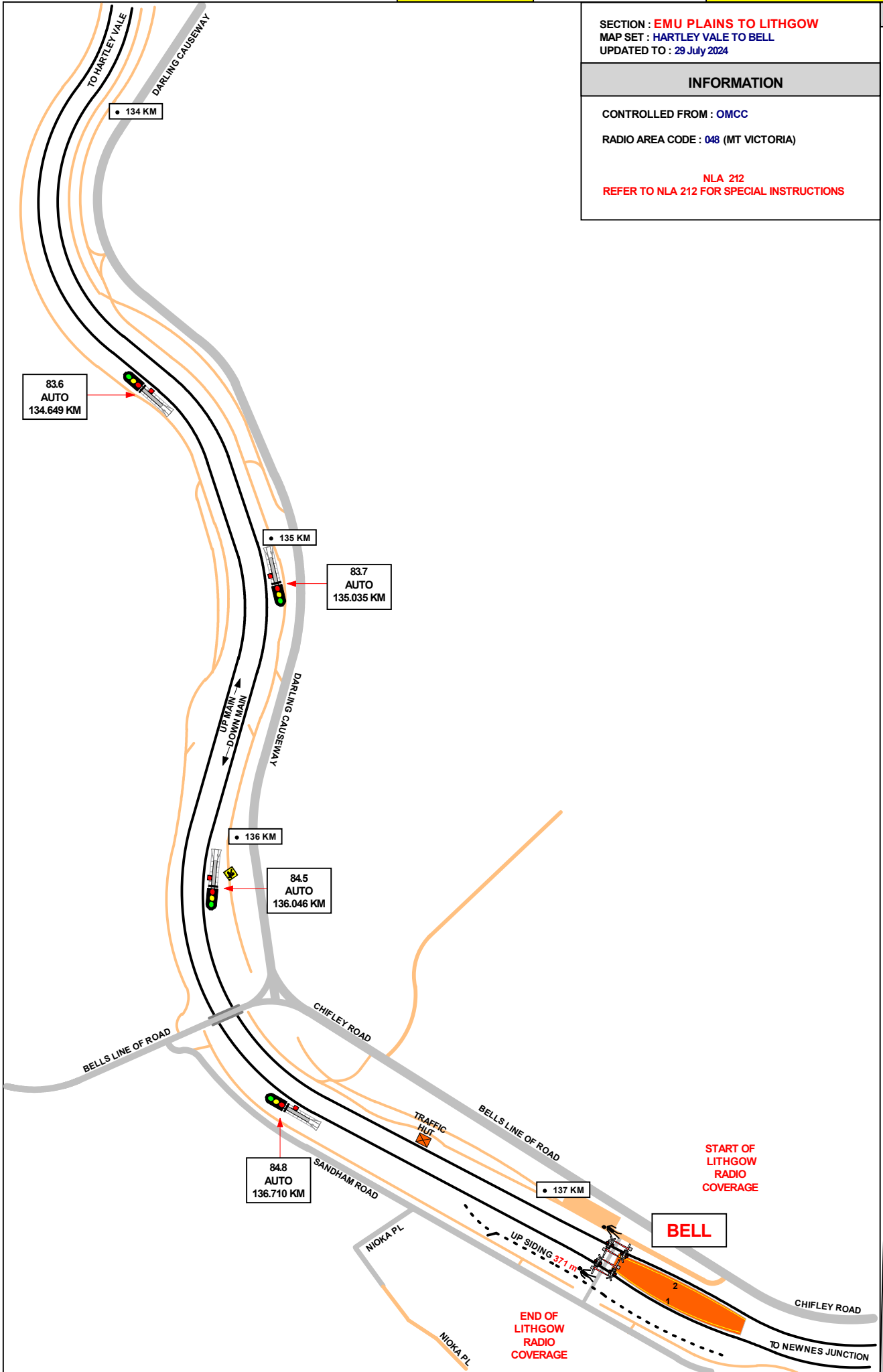
SECTION : EMU PLAINS TO LITHGOW
MAP SET : HARTLEY VALE TO BELL
UPDATED TO : 29 July 2024

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 : 29 July 2024

INFORMATION

CONTROLLED FROM: OMCC

RADIO AREA CODE : 048 (MT VICTORIA)

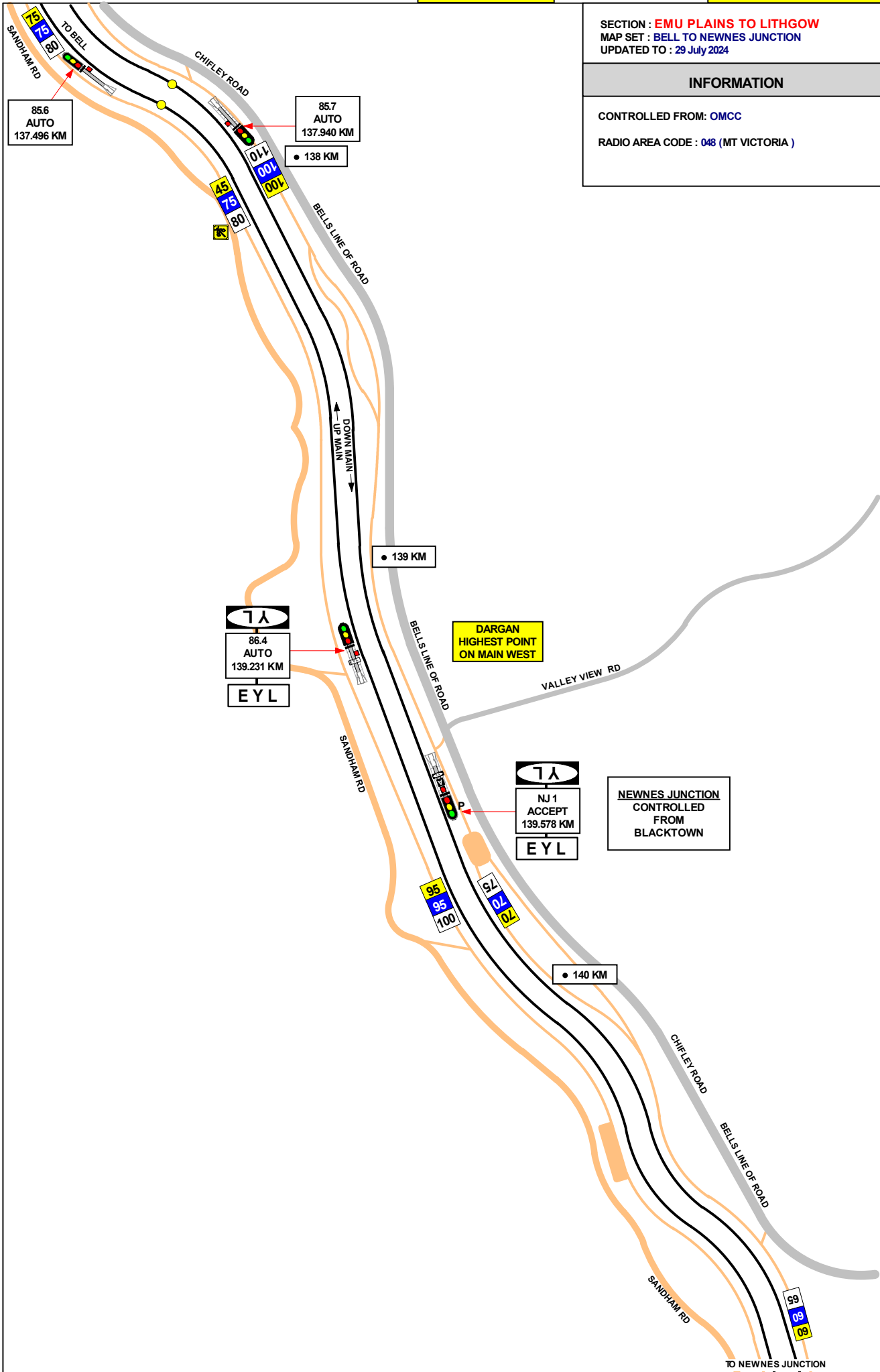
GRADIENT

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 |

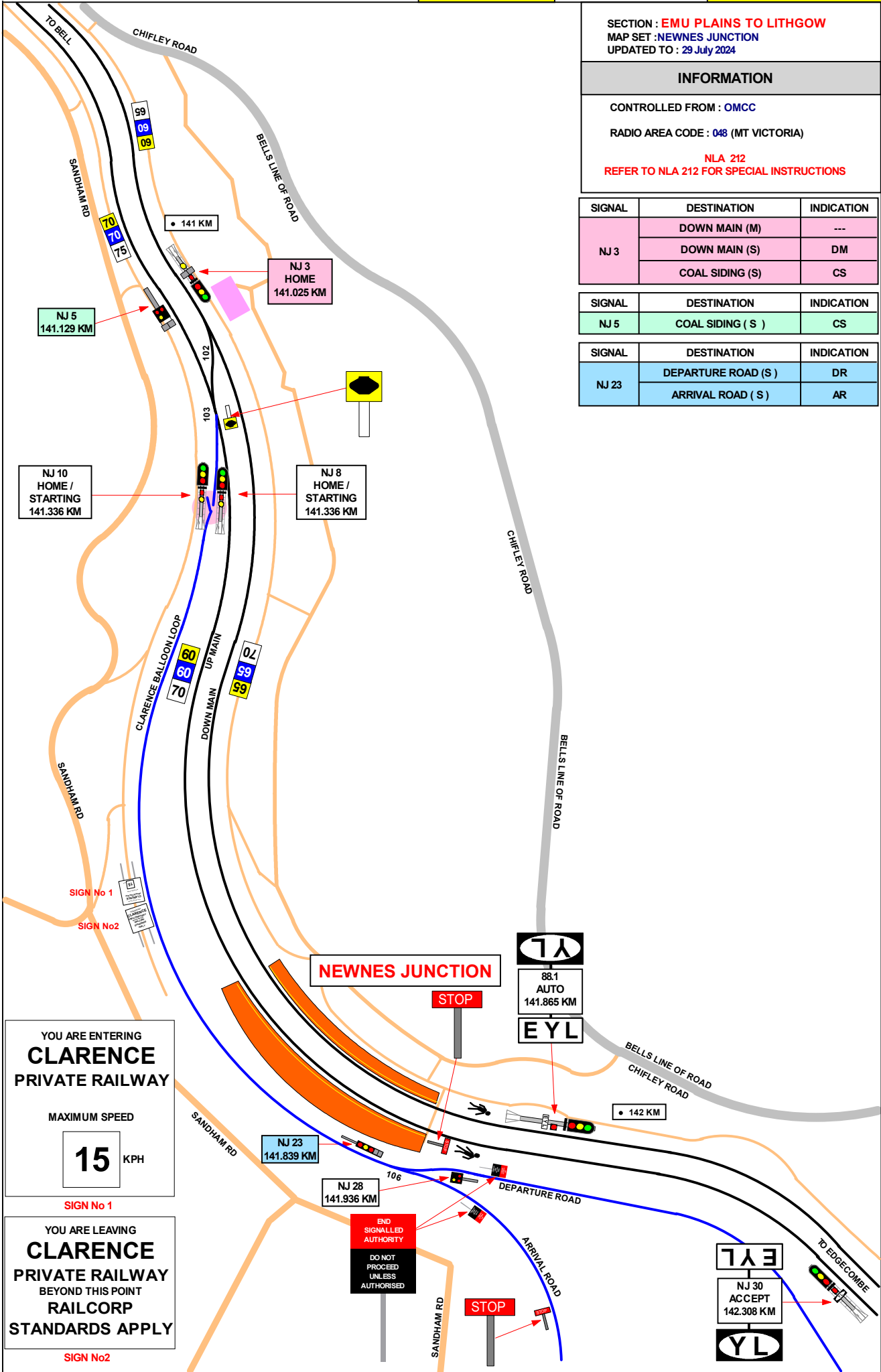
| SIGNAL | DESTINATION | INDICATION |
|--------|----------------------|------------|
| NJ 23 | DEPARTURE ROAD (S) | DR |
| | ARRIVAL ROAD (S) | AR |

GRADIENT

1 IN 90

LEVEL

1 IN 90

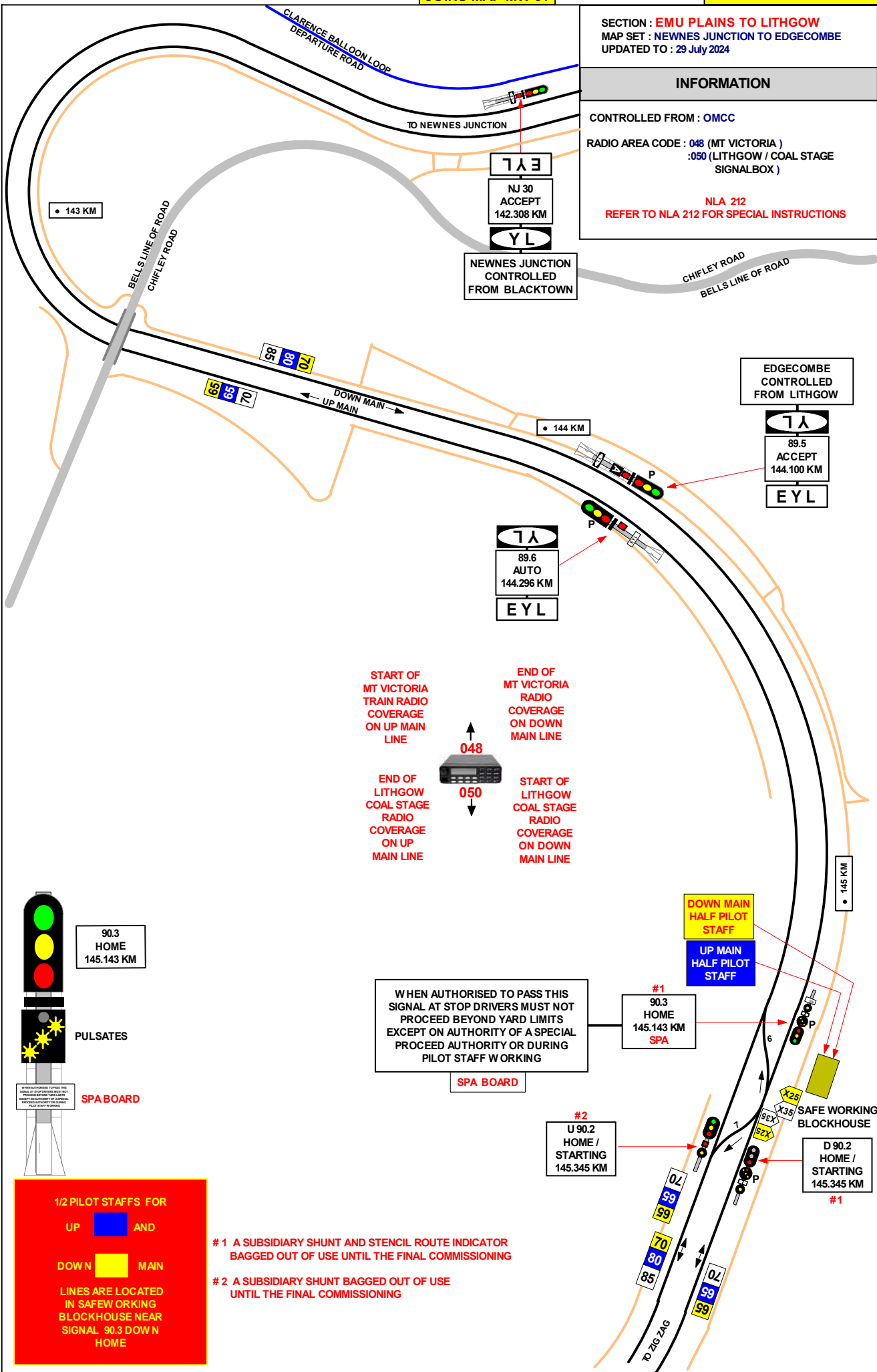


SECTION : EMU PLAINS TO LITHGOW
MAP SET : NEWNES JUNCTION TO EDGECOMBE
UPDATED TO : 29 July 2024

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

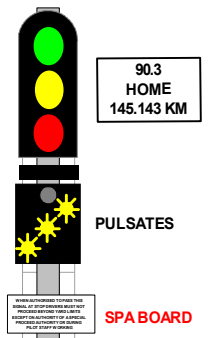
START OF LITHGOW COAL STAGE RADIO COVERAGE ON DOWN MAIN LINE

048

050

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

SPA BOARD



1/2 PILOT STAFFS FOR
UP AND
DOWN MAIN
LINES ARE LOCATED IN SAFE WORKING 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

GRADIENT

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

INFORMATION

CONTROLLED FROM : LITHGOW

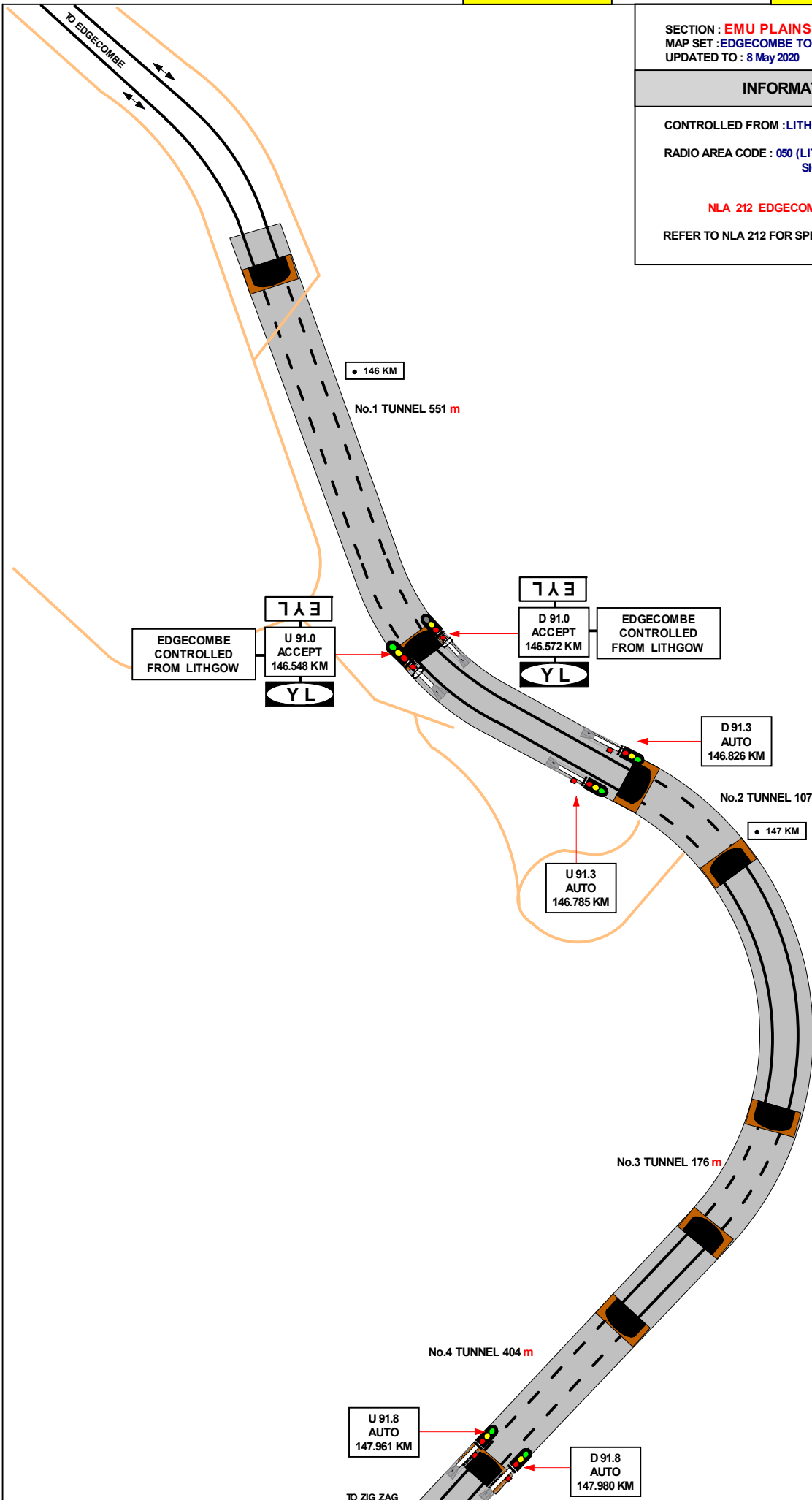
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE
SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

1 IN 1166

1 IN 90



• 146 KM

No.1 TUNNEL 551 m

EDGECOMBE
CONTROLLED
FROM LITHGOW

EYL
U 91.0
ACCEPT
146.548 KM
YL

EYL
D 91.0
ACCEPT
146.572 KM
YL

EDGECOMBE
CONTROLLED
FROM LITHGOW

D 91.3
AUTO
146.826 KM

No.2 TUNNEL 107 m

• 147 KM

U 91.3
AUTO
146.785 KM

No.3 TUNNEL 176 m

No.4 TUNNEL 404 m

U 91.8
AUTO
147.961 KM

D 91.8
AUTO
147.980 KM

TO ZIG ZAG

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

INFORMATION

CONTROLLED FROM : LITHGOW

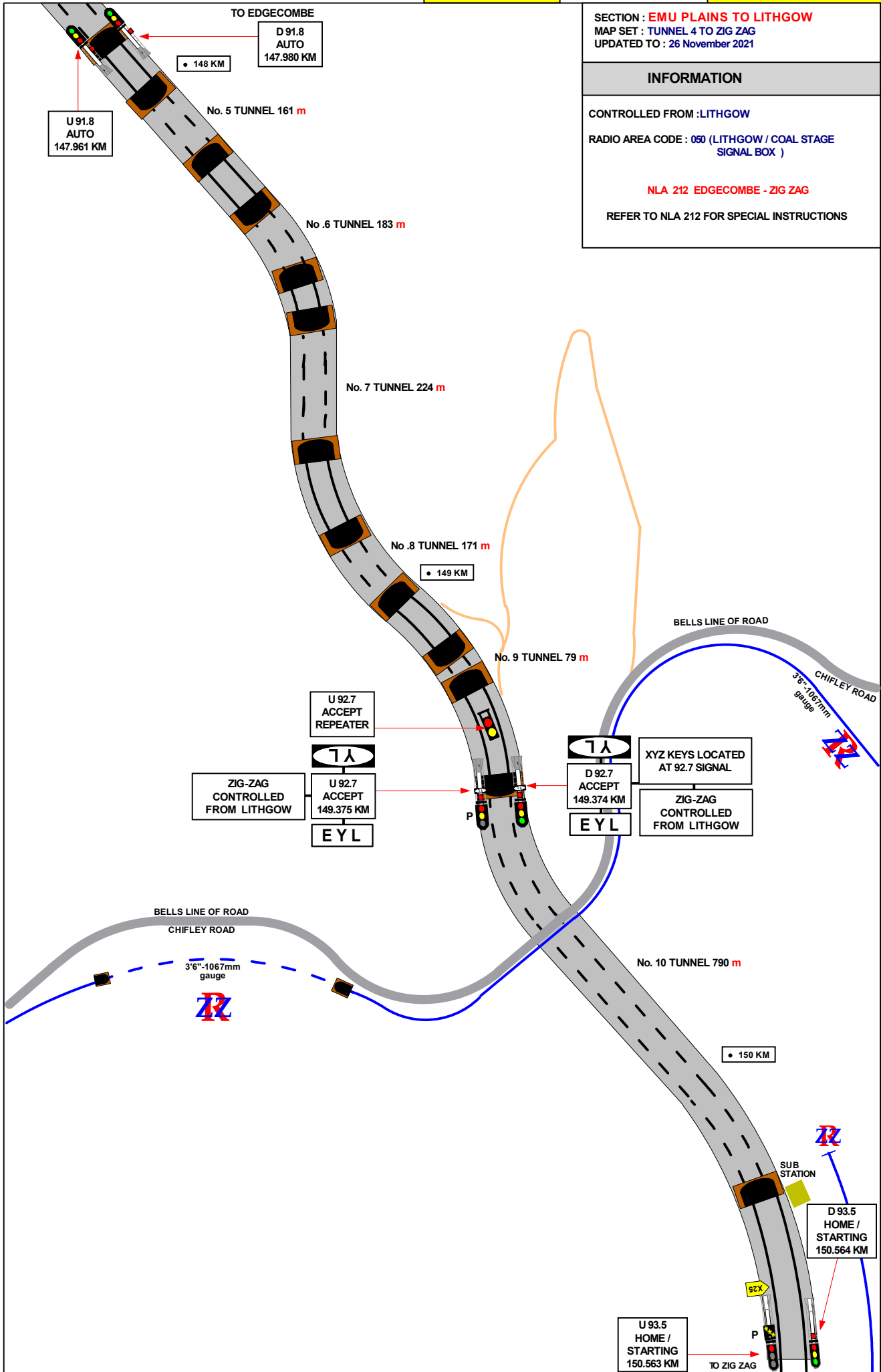
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE
SIGNAL BOX)

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 OAKEY PARK
UPDATED TO : 26 November 2021

INFORMATION

CONTROLLED FROM : LITHGOW

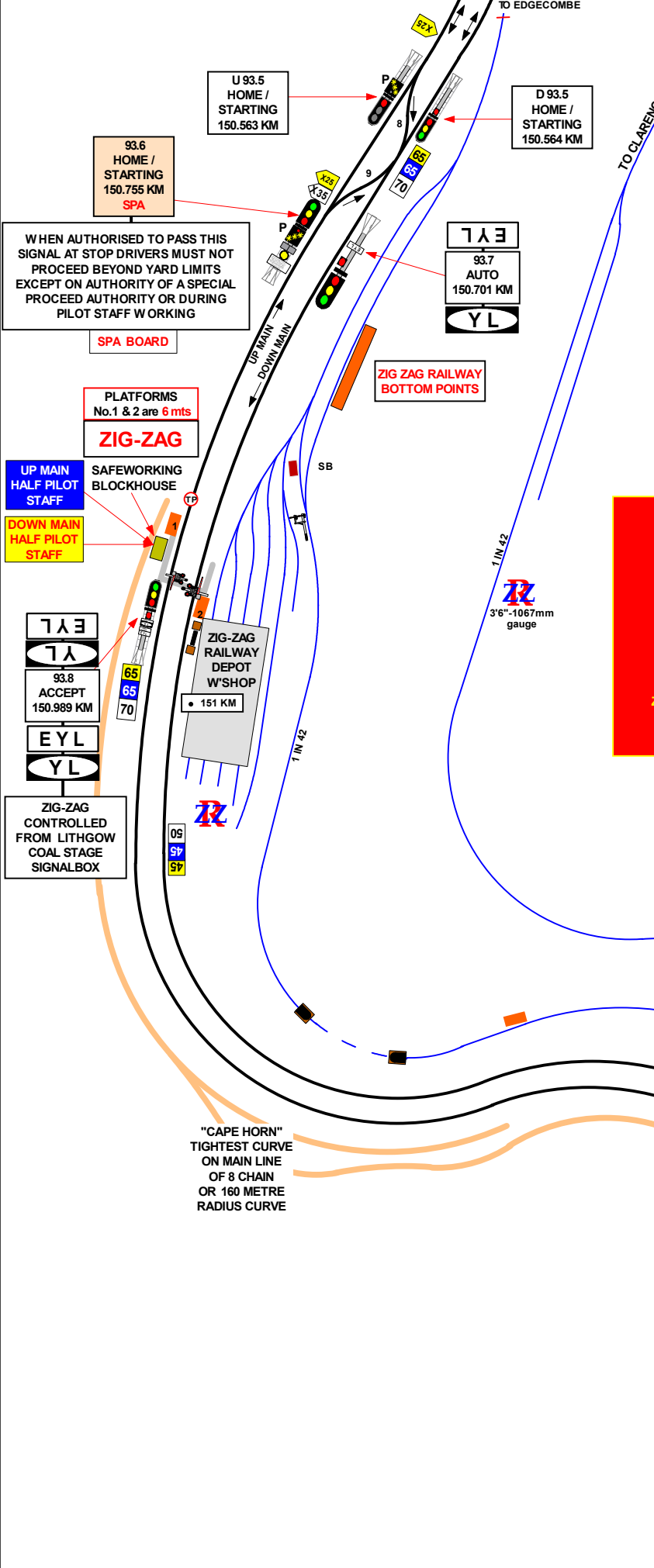
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

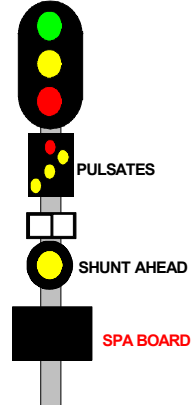
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

| SIGNAL | DESTINATION | INDICATION |
|--------|-------------|------------|
| D 93.6 | UP MAIN | UM |
| | DOWN MAIN | DM |

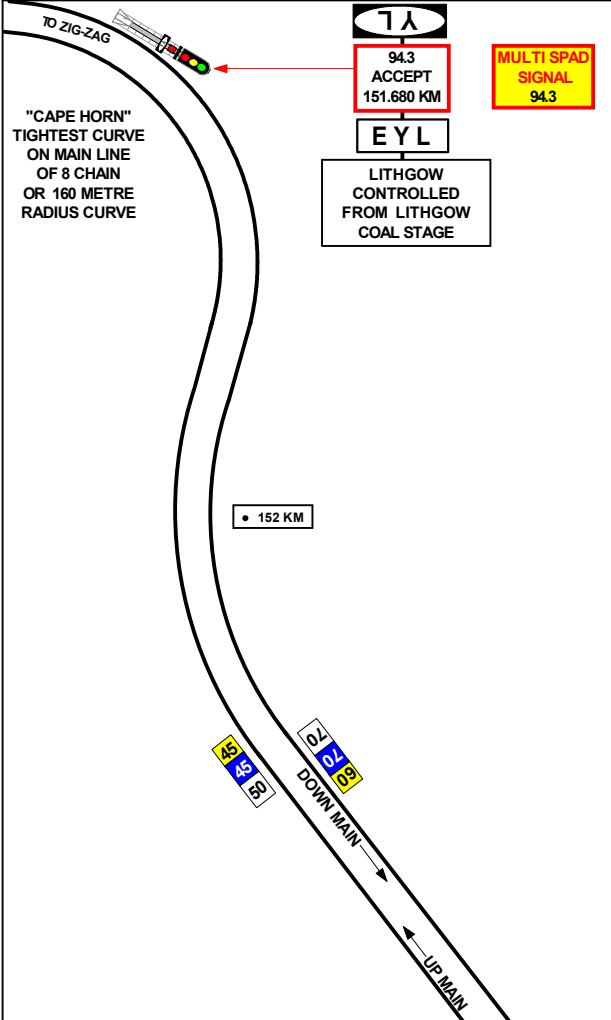
1 IN 89



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

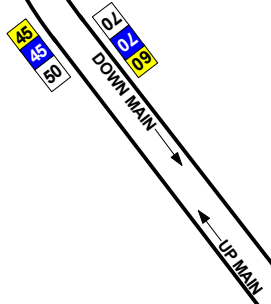
RADIO AREA CODE : 050 (LITHGOW / COAL STAGE SIGNAL BOX)

NLA 212 EDGECOMBE - ZIG ZAG

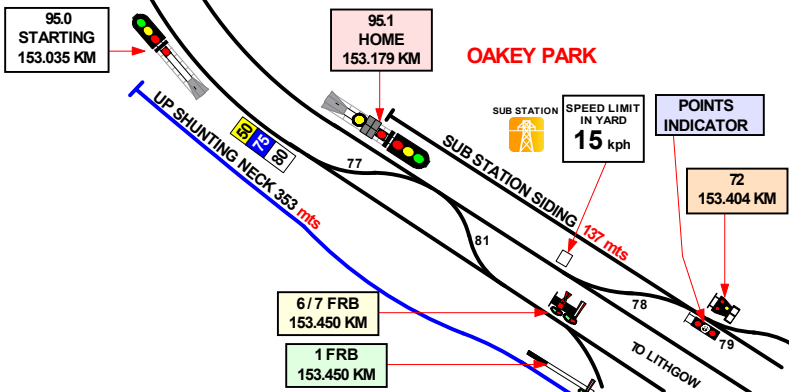
REFER TO NLA 212 FOR SPECIAL INSTRUCTIONS

| 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 |



153 KM



SECTION : EMU PLAINS TO LITHGOW
 MAP SET : Oakey 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 |

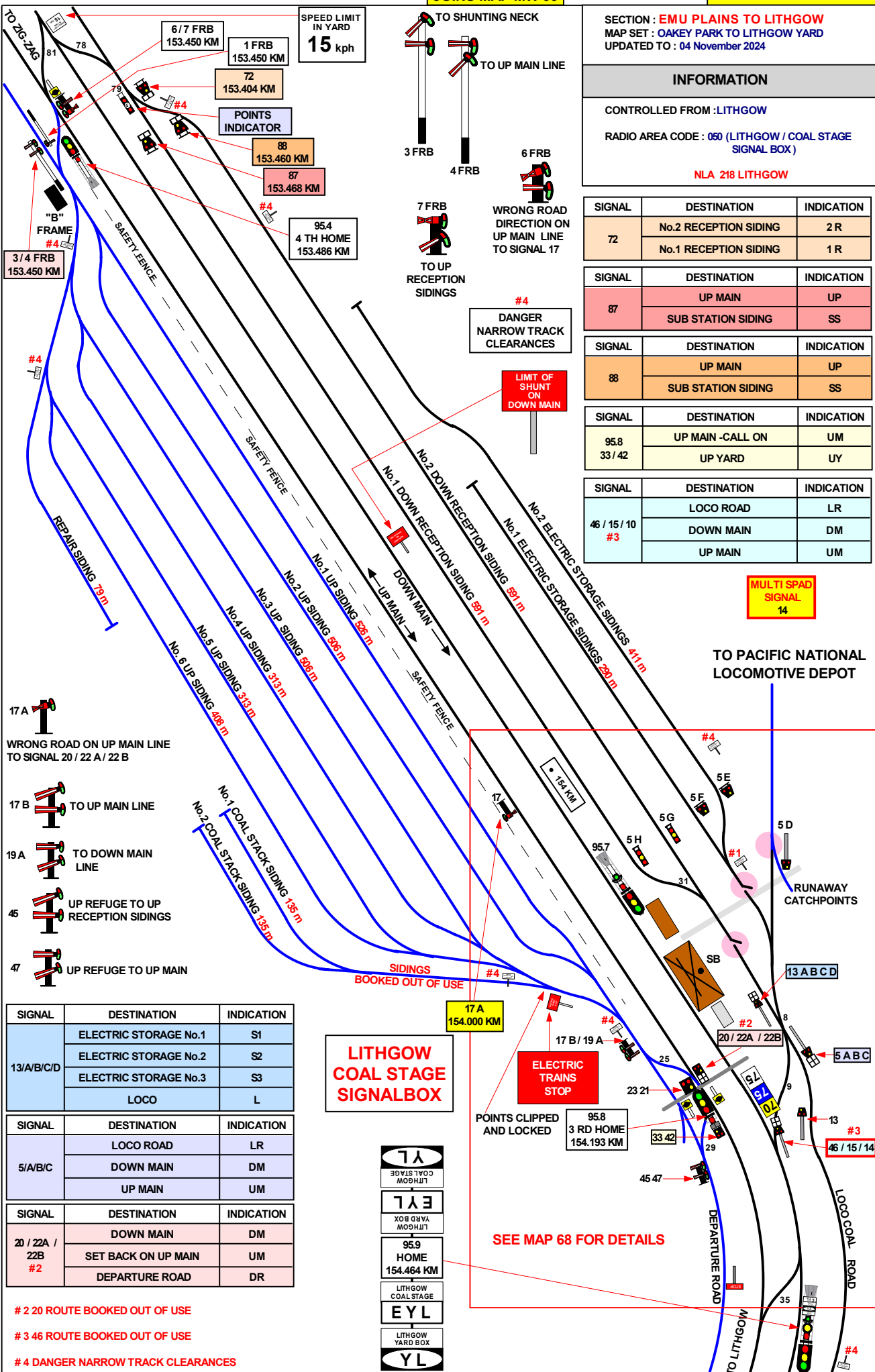
| SIGNAL | DESTINATION | INDICATION |
|--------|--------------------|------------|
| 87 | UP MAIN | UP |
| | SUB STATION SIDING | SS |

| SIGNAL | DESTINATION | INDICATION |
|--------|--------------------|------------|
| 88 | UP MAIN | UP |
| | SUB STATION SIDING | SS |

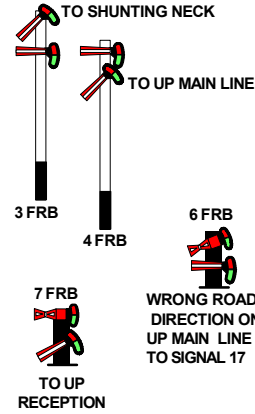
| SIGNAL | DESTINATION | INDICATION |
|-----------------|------------------|------------|
| 95.8 33 / 42 | UP MAIN -CALL ON | UM |
| | UP YARD | UY |

| SIGNAL | DESTINATION | INDICATION |
|--------------------|-------------|------------|
| 46 / 15 / 10 #3 | LOCO ROAD | LR |
| | DOWN MAIN | DM |
| | UP MAIN | UM |

MULTI SPAD SIGNAL 14



SPEED LIMIT IN YARD
15 kph



#4
 DANGER NARROW TRACK CLEARANCES

LIMIT OF SHUNT ON DOWN MAIN

"B" FRAME #4
 3/4 FRB
 153.450 KM

6/7 FRB
 153.450 KM

1 FRB
 153.450 KM

72
 153.404 KM

POINTS INDICATOR

88
 153.460 KM

87
 153.468 KM

95.4
 4 TH HOME
 153.486 KM

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 |
| | LOCO | L |

| SIGNAL | DESTINATION | INDICATION |
|---------|-------------|------------|
| 5/A/B/C | LOCO ROAD | LR |
| | DOWN MAIN | DM |
| | UP MAIN | UM |

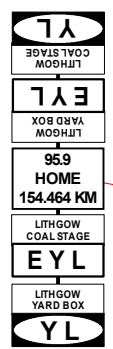
| SIGNAL | DESTINATION | INDICATION |
|----------------------|---------------------|------------|
| 20 / 22A / 22B #2 | DOWN MAIN | DM |
| | SET BACK ON UP MAIN | UM |
| | DEPARTURE ROAD | DR |

LITHGOW COAL STAGE SIGNALBOX

17 A
 154.000 KM

ELECTRIC TRAINS STOP

POINTS CLIPPED AND LOCKED
 95.8
 3 RD HOME
 154.193 KM



SEE MAP 68 FOR DETAILS

2 20 ROUTE BOOKED OUT OF USE

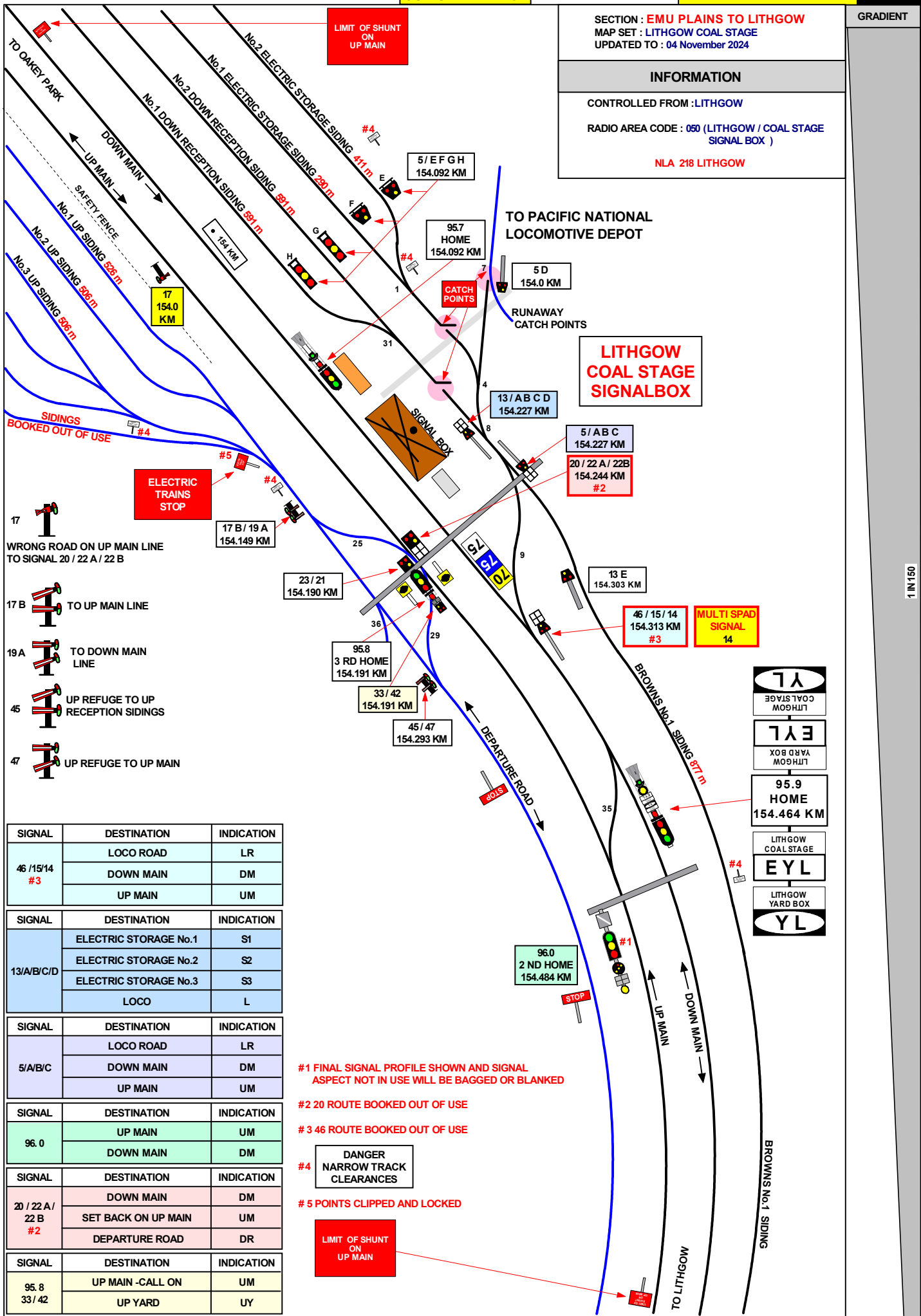
3 46 ROUTE BOOKED OUT OF USE

4 DANGER NARROW TRACK CLEARANCES

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

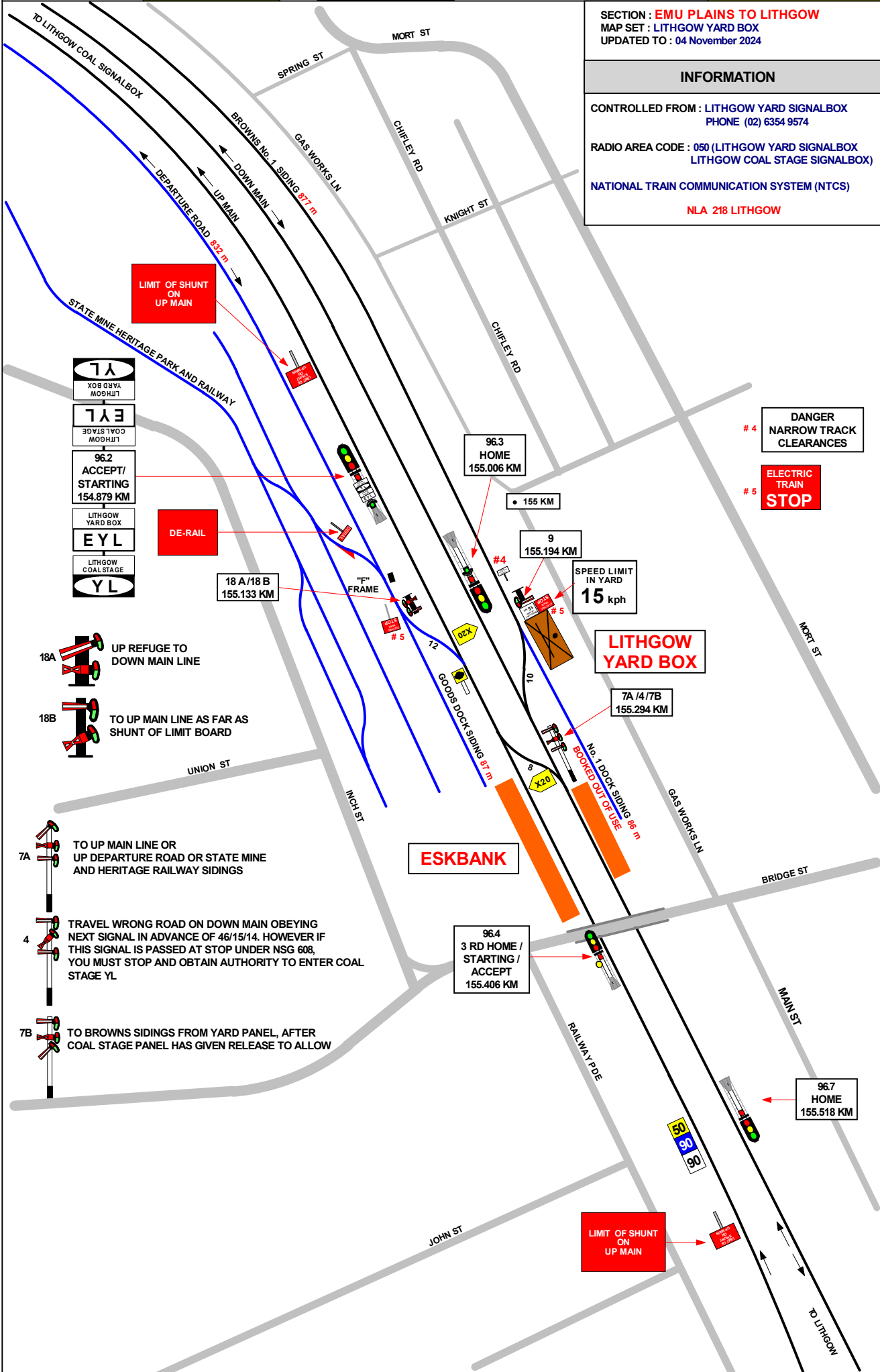
**ELECTRIC
TRAINS
STOP**

TO COAL STAGE SIGNALBOX

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

INFORMATION

CONTROLLED FROM : LITHGOW YARD SIGNALBOX
PHONE (02) 6354 9574
RADIO AREA CODE : 050 (LITHGOW YARD SIGNALBOX
LITHGOW COAL STAGE SIGNALBOX)
NATIONAL TRAIN COMMUNICATION SYSTEM (NTCS)
NLA 218 LITHGOW



LIMIT OF SHUNT ON UP MAIN

- 7A LITHGOW COAL STAGE
- 7B LITHGOW COAL STAGE
- 96.2 ACCEPT/STARTING 154.879 KM
- LITHGOW YARD BOX
- EYL LITHGOW COAL STAGE
- YL LITHGOW COAL STAGE

DE-RAIL

18 A/18 B 155.133 KM

96.3 HOME 155.006 KM

155 KM

9 155.194 KM

SPEED LIMIT IN YARD 15 kph

LITHGOW YARD BOX

7A I4 I7B 155.294 KM

ESKBANK

96.4 3 RD HOME / STARTING / ACCEPT 155.406 KM

96.7 HOME 155.518 KM

LIMIT OF SHUNT ON UP MAIN

#4 DANGER NARROW TRACK CLEARANCES

#5 ELECTRIC TRAIN STOP

18A UP REFUGE TO DOWN MAIN LINE

18B TO UP MAIN LINE AS FAR AS SHUNT OF LIMIT BOARD

7A TO UP MAIN LINE OR UP DEPARTURE ROAD OR STATE MINE AND HERITAGE RAILWAY SIDINGS

4 TRAVEL WRONG ROAD ON DOWN MAIN OBEYING NEXT SIGNAL IN ADVANCE OF 46/15/14. HOWEVER IF THIS SIGNAL IS PASSED AT STOP UNDER NSG 608, YOU MUST STOP AND OBTAIN AUTHORITY TO ENTER COAL STAGE YL

7B TO BROWNS SIDINGS FROM YARD PANEL, AFTER COAL STAGE PANEL HAS GIVEN RELEASE TO ALLOW

SECTION : EMU PLAINS TO LITHGOW
MAP SET : LITHGOW
UPDATED TO : 4 October 2023

INFORMATION

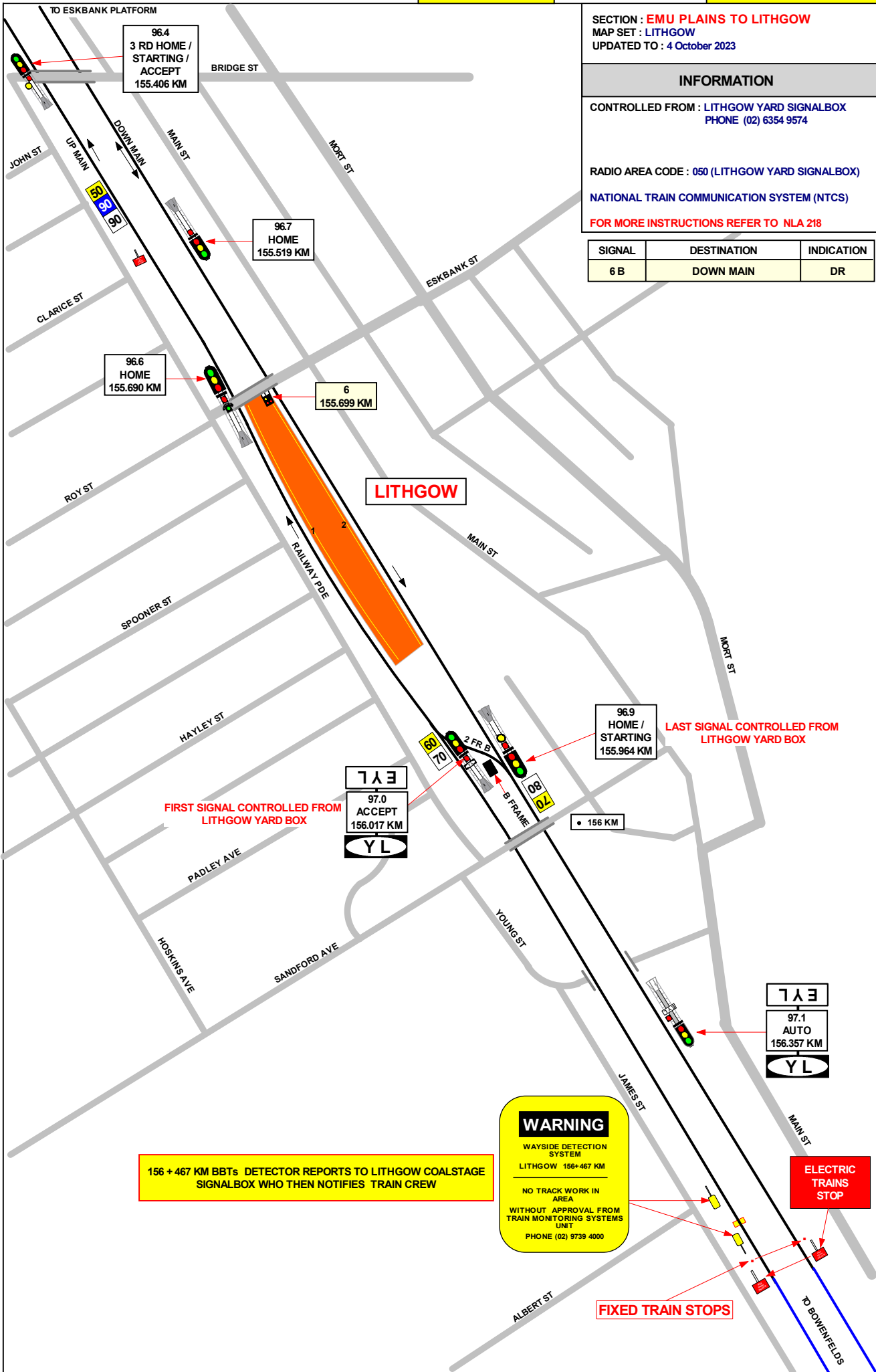
CONTROLLED FROM : LITHGOW YARD SIGNALBOX
PHONE (02) 6354 9574

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

ELECTRIC TRAINS STOP

FIXED TRAIN STOPS

| 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 |