

DRIVERS ROUTE KNOWLEDGE DIAGRAMS

MAIN NORTH LINE

STRATHFIELD

NORTH STRATHFIELD

CONCORD WEST

RHODES

MEADOWBANK

WEST RYDE

DENISTONE

EASTWOOD

EPPING

CHELTENHAM

BEECROFT

PENNANT HILLS

THORNLEIGH

NORMANHURST

HORNSBY

ASQUITH

MOUNT COLAH

MOUNT KURING-GAI

BEROWRA

Effective Date: November 2025

Version: 5.21

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**.

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Information in these diagrams is uncontrolled.

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

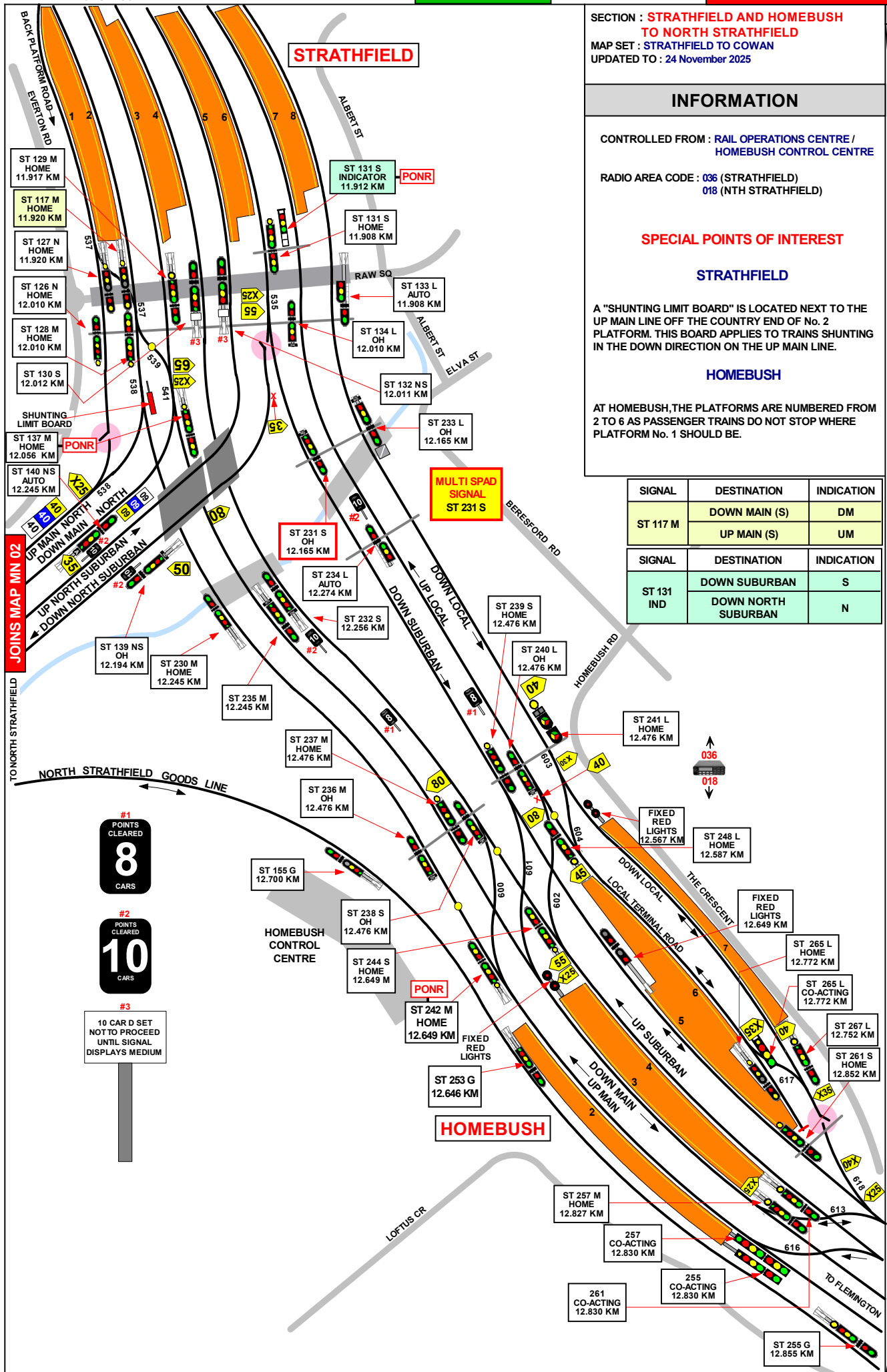


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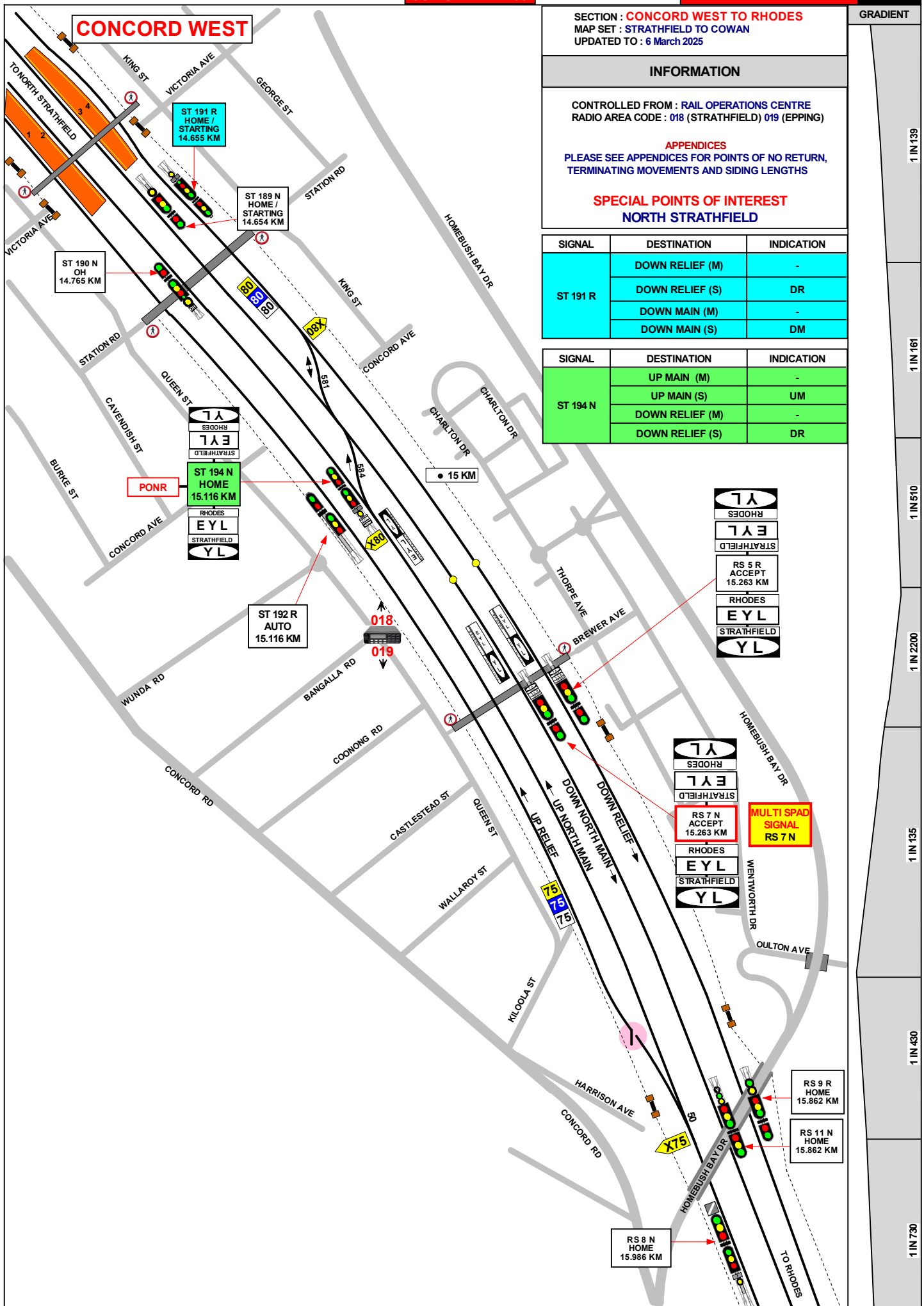
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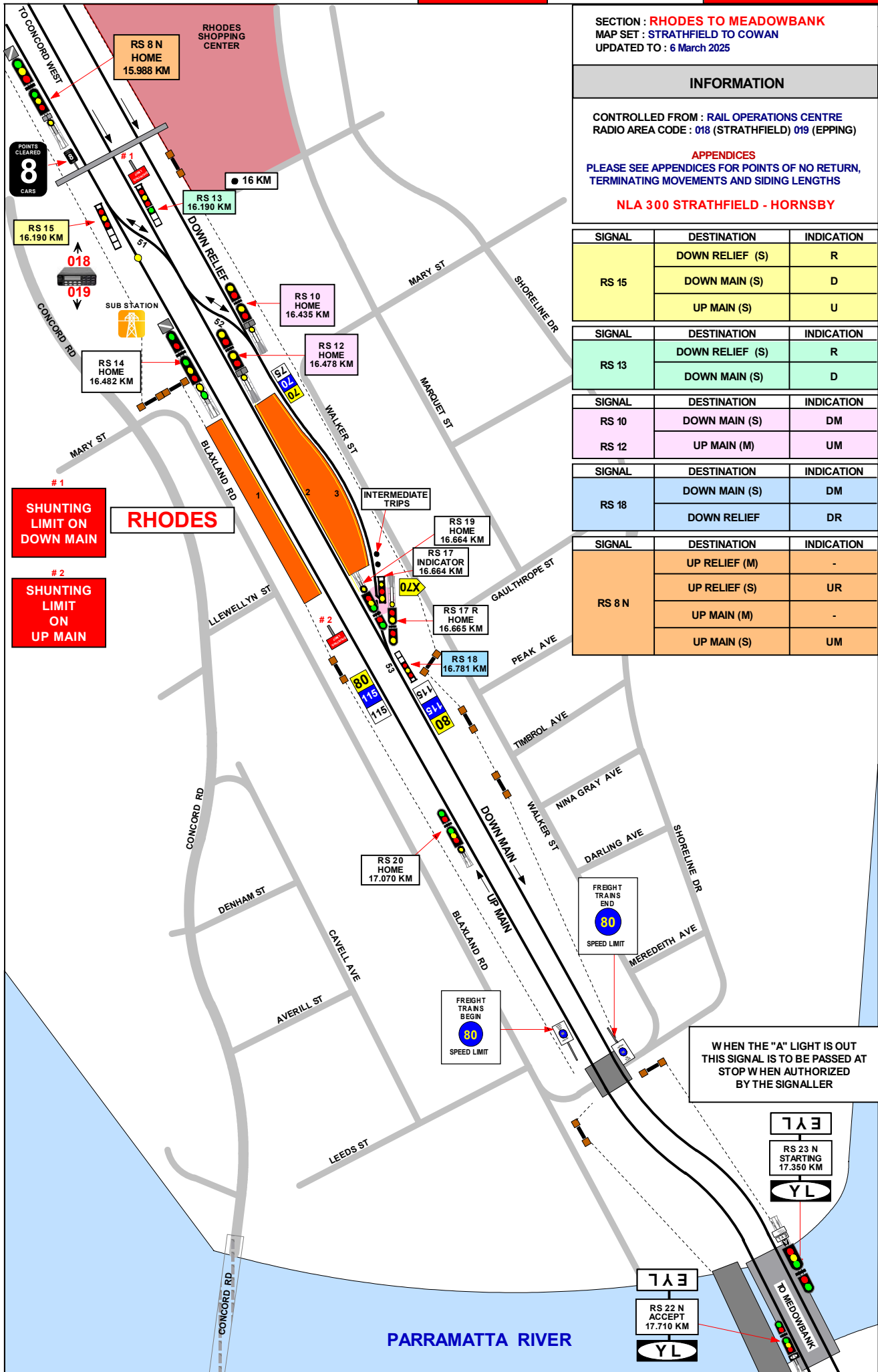
TO BURWOOD









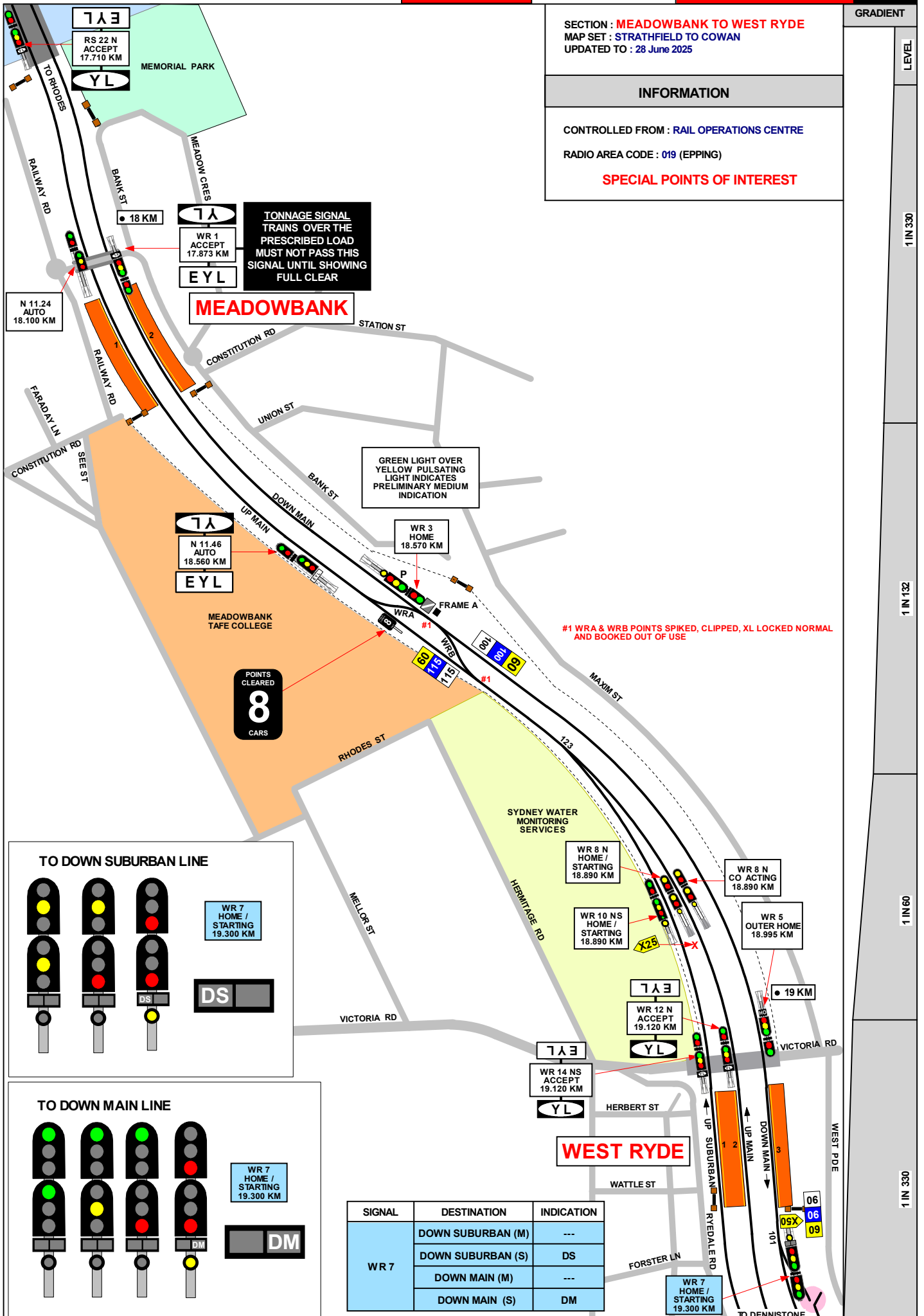


SECTION : **MEADOWBANK TO WEST RYDE**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : 28 June 2025

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **019 (EPPING)**

SPECIAL POINTS OF INTEREST



WEST RYDE

SECTION : WEST RYDE TO DENISTONE
 MAP SET : STRATHFIELD TO COWAN
 UPDATED TO : 6 March 2025

INFORMATION

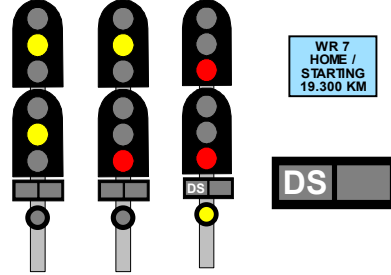
CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 019 (EPPING)

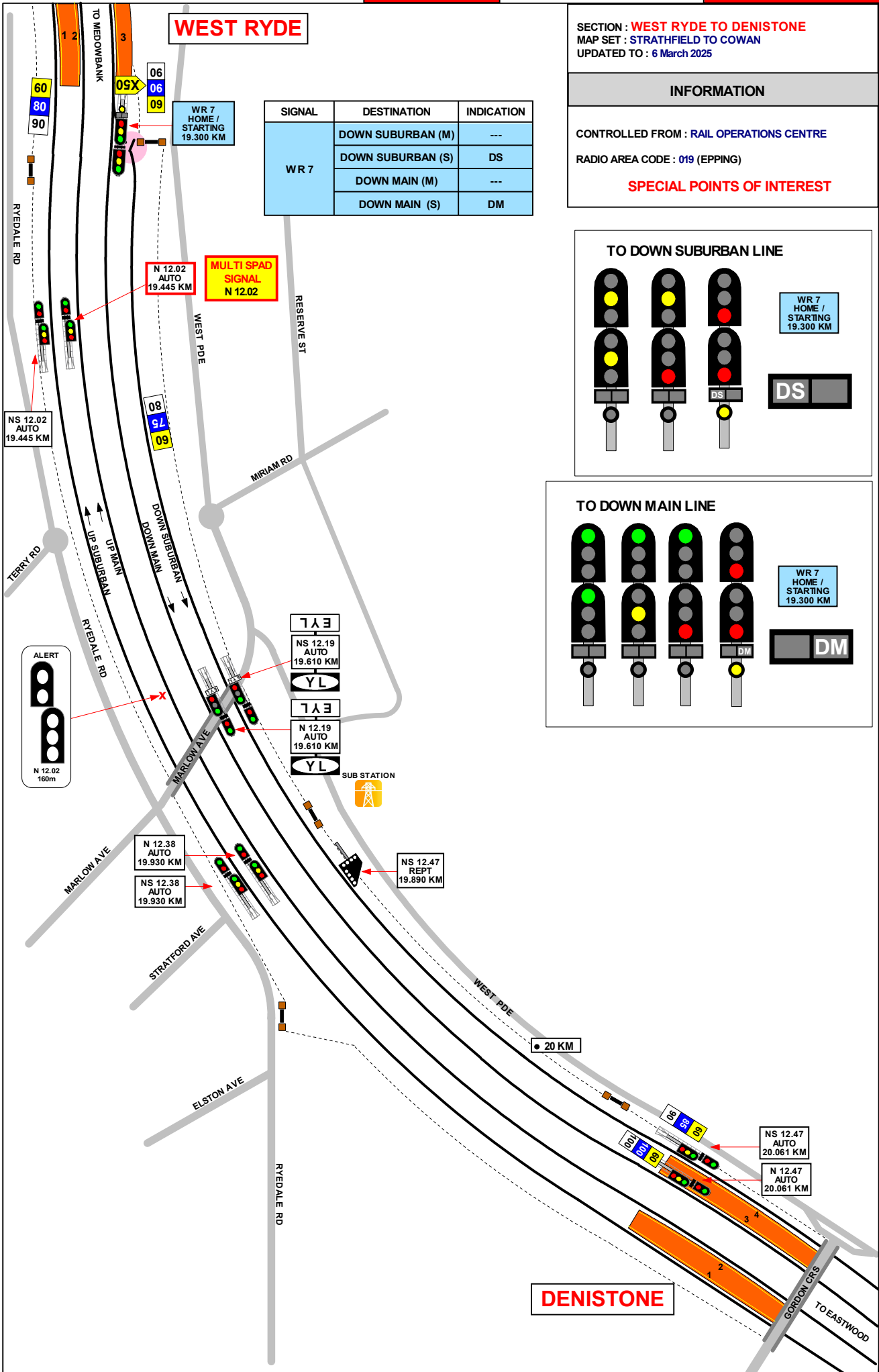
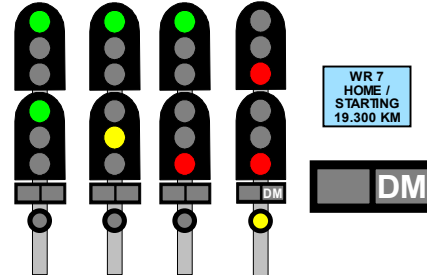
SPECIAL POINTS OF INTEREST

SIGNAL	DESTINATION	INDICATION
WR 7	DOWN SUBURBAN (M)	---
	DOWN SUBURBAN (S)	DS
	DOWN MAIN (M)	---
	DOWN MAIN (S)	DM

TO DOWN SUBURBAN LINE



TO DOWN MAIN LINE



DENISTONE

SECTION : DENISTONE TO EASTWOOD

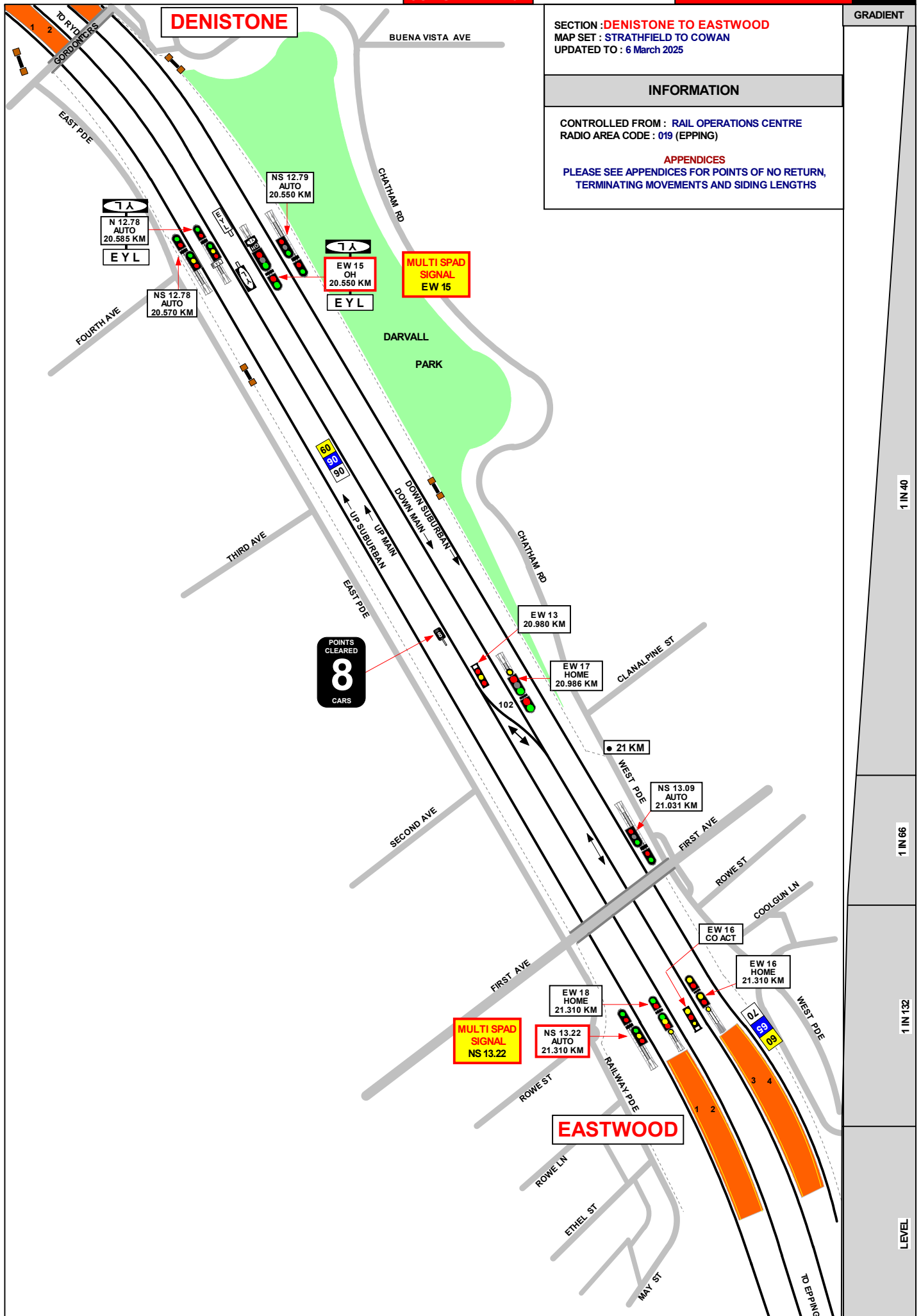
MAP SET : STRATHFIELD TO COWAN

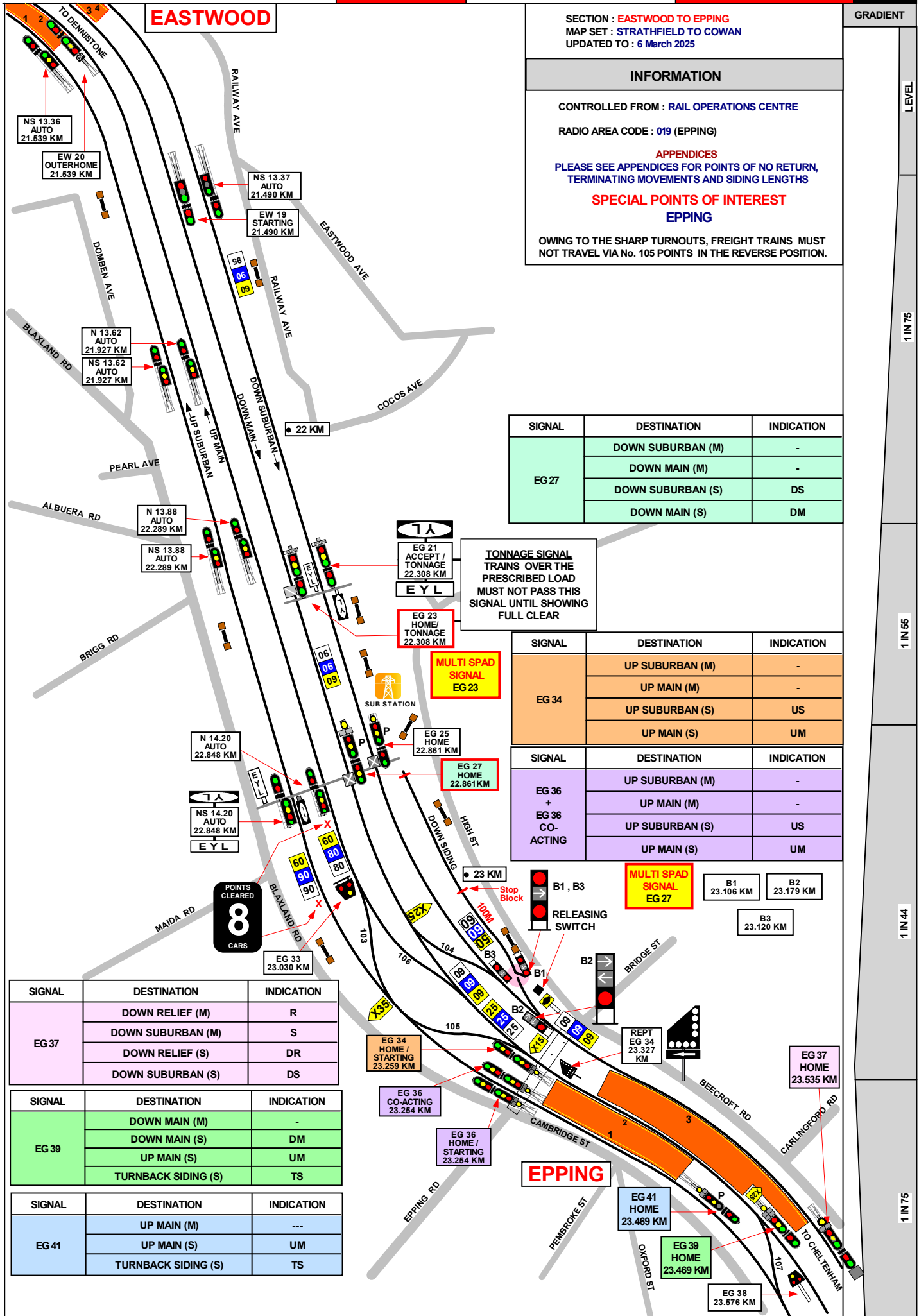
UPDATED TO : 6 March 2025

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE
RADIO AREA CODE : 019 (EPPING)

APPENDICES

PLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
TERMINATING MOVEMENTS AND SIDING LENGTHS



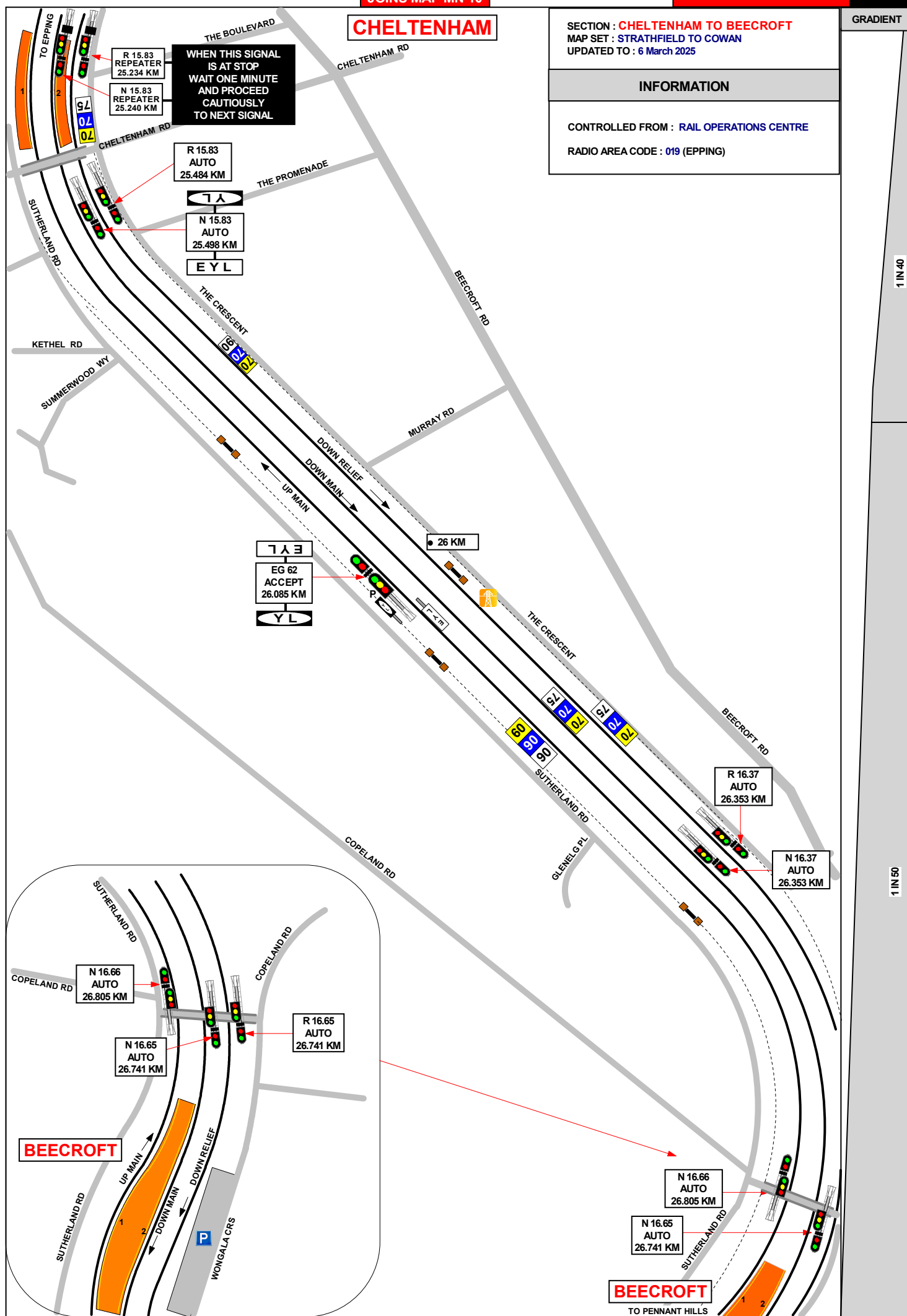


CHELTENHAM

SECTION : **CHELTENHAM TO BEECROFT**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : 6 March 2025

GRADIENT

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**RADIO AREA CODE : **019 (EPPING)**

SECTION : **BEECROFT TO PENNANT HILLS**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : **6 March 2025**

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **019 (EPPING)**

GRADIENT

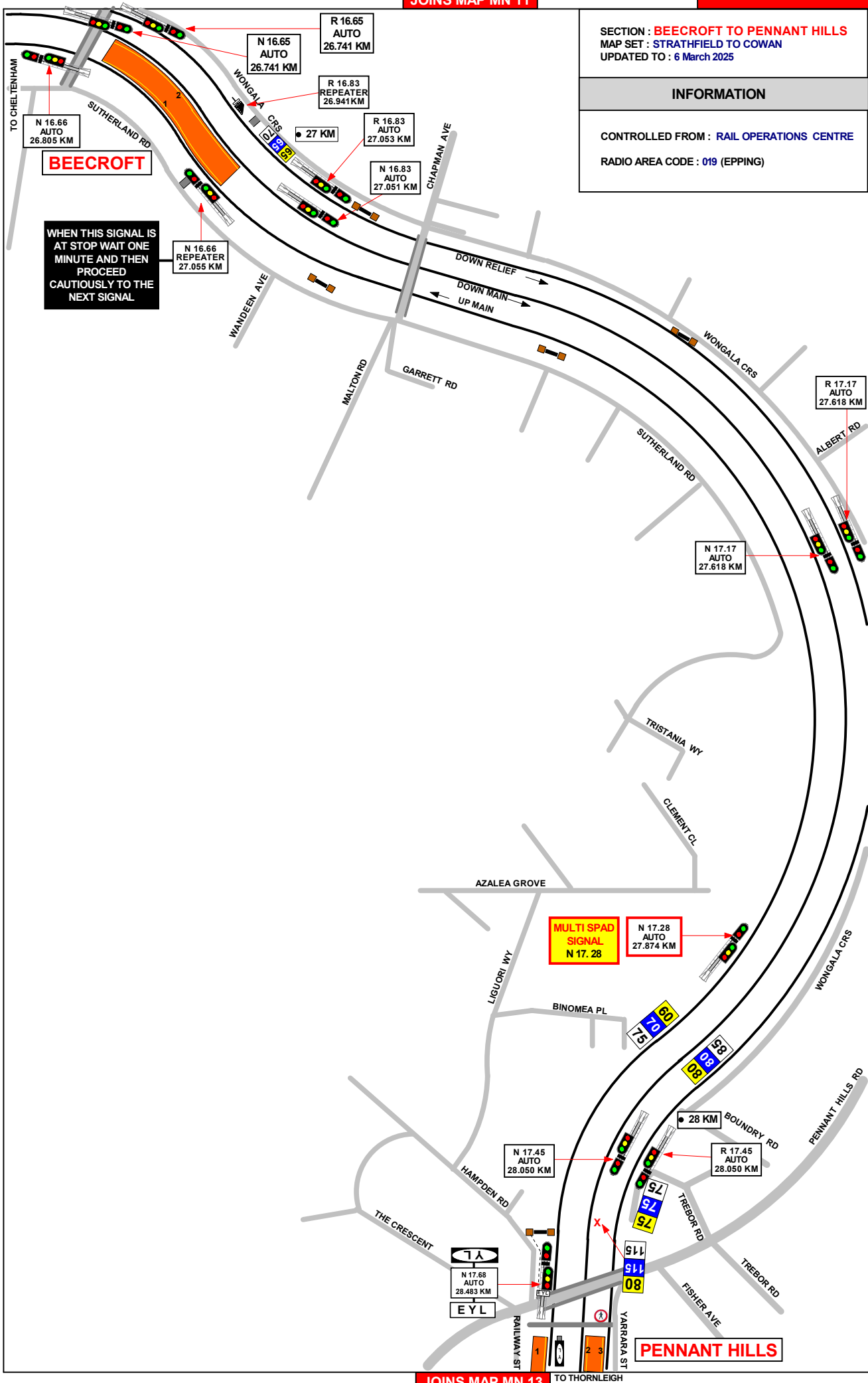
1 IN 50

1 IN 75

1 IN 55

1 IN 44

LEVEL



SECTION : **PENNANT HILLS TO THORNLEIGH**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : 6 March 2025

INFORMATION

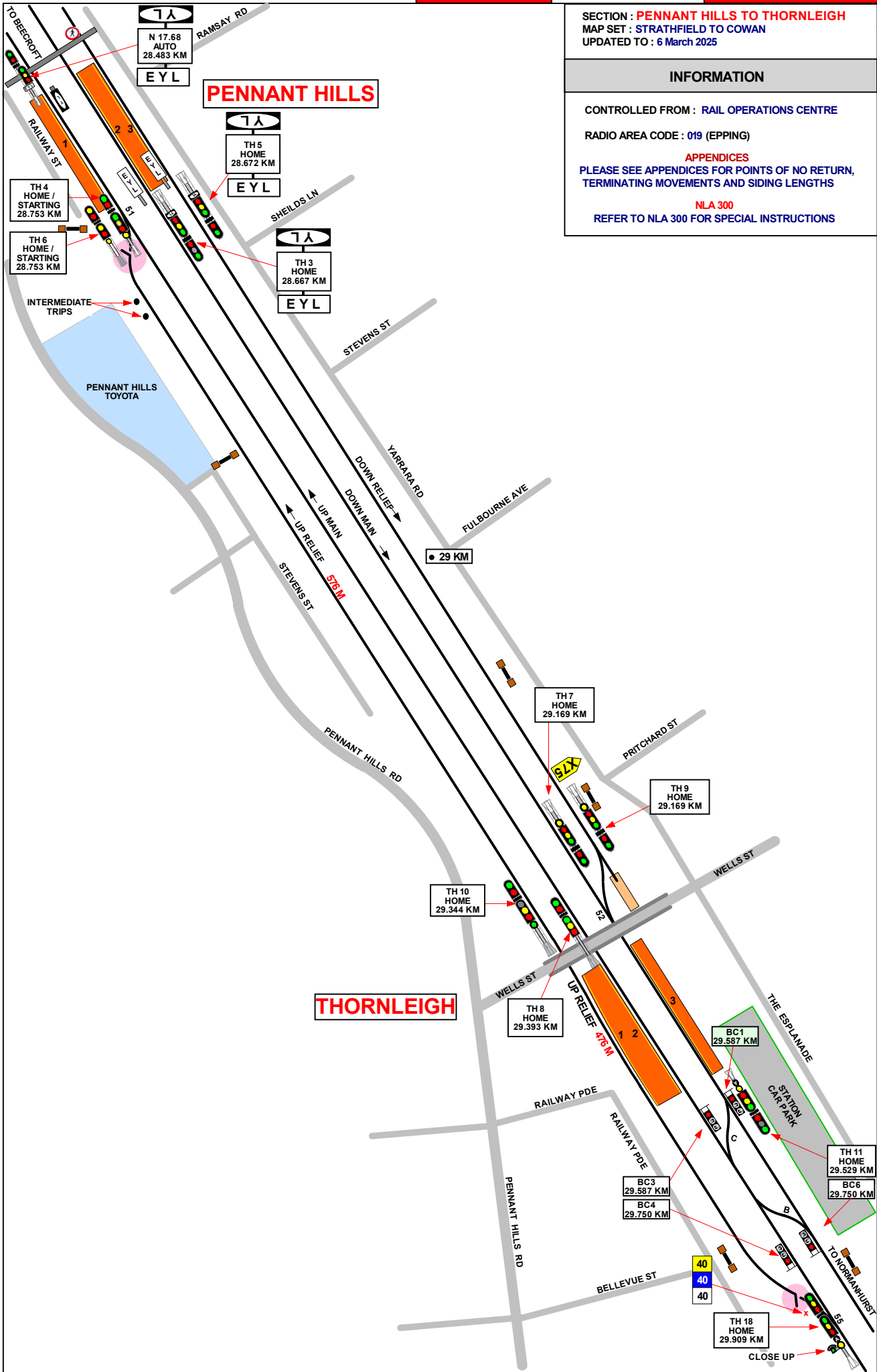
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RADIO AREA CODE : **019 (EPPING)**

APPENDICES
 PLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
 TERMINATING MOVEMENTS AND SIDING LENGTHS

NLA 300
 REFER TO NLA 300 FOR SPECIAL INSTRUCTIONS

GRADIENT
1 IN 44
LEVEL
1 IN 220
1 IN 163
1 IN 200
LEVEL
1 IN 66



SECTION : **THORNLEIGH TO NORMANHURST**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : **6 March 2025**

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **019 (EPPING)**
017 (HORNSBY)

NLA 300
 REFER TO NLA 300 FOR SPECIAL INSTRUCTIONS

THORNLEIGH

GRADIENT

1 IN 200

LEVEL

1 IN 66

1 IN 50

1 IN 75

1 IN 132



PANTOGRAPH MONITORING SYSTEM
 47.898 KM

MULTI SPAD SIGNAL
TH 20

TH 20 ACCEPT
 30.654 KM

THE BRICKPIT SPORTS STADIUM

TH 18 HOME / STARTING
 30.515 KM

N 19.64 AUTO
 31.617 KM

N 19.45 AUTO
 31.317 KM

NORMANHURST

NORMANHURST

TONNAGE SIGNAL
TRAINS OF OVER
PRESCRIBED LOAD TO
WAIT UNTIL SIGNAL IS
AT FULL CLEAR

SECTION : NORMANHURST TO HORNSBY

MAP SET : CENTRAL TO HORNSBY VIA SHORE

PAGE: 1 OF 5

UPDATED TO : 6 March 2025

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 019 (EPPING)

017 (HORNSBY)

APPENDICES

PLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
TERMINATING MOVEMENTS AND SIDING LENGTHS

SIGNAL	DESTINATION	INDICATION
HY 17	DOWN RELIEF (M)	R
	DOWN RELIEF (S)	DR
	DOWN MAIN (M)	M
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
HY 25	DOWN MAIN (M)	-
	DOWN MAIN (S)	4
	UP MAIN (M)	3
	UP MAIN (S)	3
	DOWN SHORE (M)	2
	DOWN SHORE (S)	2
	UP SHORE (M)	1
	UP SHORE (S)	1

MULTI SPAD
SIGNAL
HY 17MULTI SPAD
SIGNAL
HY 25MULTI SPAD
SIGNAL
HY 31MULTI SPAD
SIGNAL
HY 35

SIGNAL	DESTINATION	INDICATION
HY 21	DOWN MAIN (M)	-

SIGNAL	DESTINATION	INDICATION
HY 27	DOWN MAIN (S)	4
	UP MAIN (S)	3
	DOWN SHORE (S)	2
	UP SHORE (S)	1

SIGNAL	DESTINATION	INDICATION
HY 35	DOWN SHORE (M)	-

SIGNAL	DESTINATION	INDICATION
HY 43	DOWN SHORE (M)	-
	DOWN SHORE (S)	2
	UP SHORE (M)	-
	UP SHORE (S)	1

SIGNAL	DESTINATION	INDICATION
HY 45	DOWN SHORE (M)	2
	UP SHORE (M)	1

SIGNAL	DESTINATION	INDICATION	INDICATOR
HY 46	UP SHORE (M)	S	S
	UP SHORE (S)	US	S
	UP MAIN (M)	M	M
	UP MAIN (S)	UM	M

SIGNAL	DESTINATION	INDICATION	INDICATOR
HY 48	UP SHORE (M)	-	-
	UP SHORE (S)	US	S
	UP MAIN (M)	-	-
	UP MAIN (S)	UM	M

JOINS MAP NS 20

NORTH SHORE GRADIENT

JOINS MAP NS 19

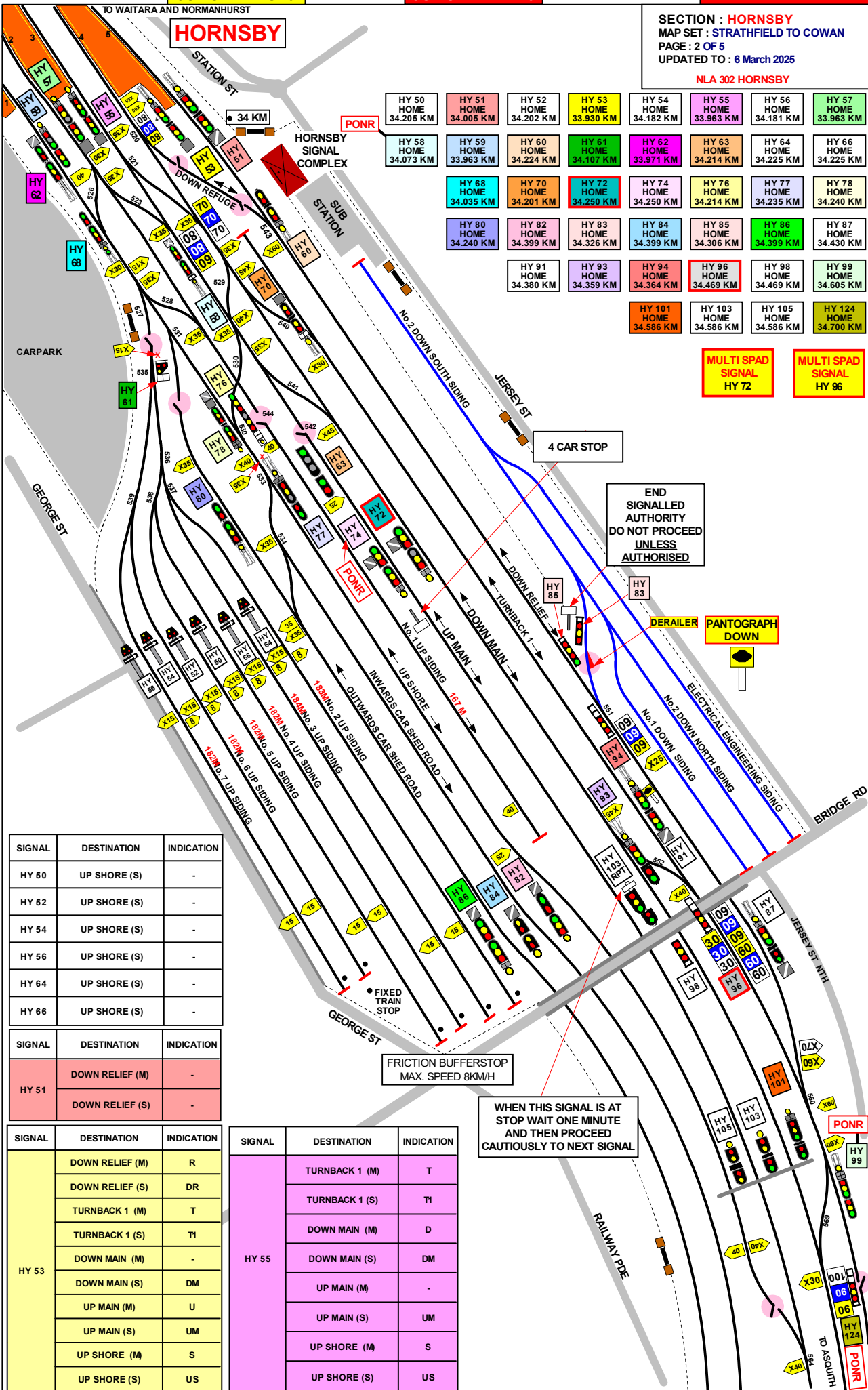
JOINS MAP MN 15

HORNSBY

SECTION : HORNSBY
 MAP SET : STRATHFIELD TO COWAN
 PAGE : 2 OF 5
 UPDATED TO : 6 March 2025

NLA 302 HORNSBY

HY 50 HOME 34.205 KM	HY 51 HOME 34.005 KM	HY 52 HOME 34.202 KM	HY 53 HOME 33.930 KM	HY 54 HOME 34.182 KM	HY 55 HOME 33.963 KM	HY 56 HOME 34.181 KM	HY 57 HOME 33.963 KM
HY 58 HOME 34.073 KM	HY 59 HOME 33.963 KM	HY 60 HOME 34.224 KM	HY 61 HOME 34.107 KM	HY 62 HOME 33.971 KM	HY 63 HOME 34.214 KM	HY 64 HOME 34.225 KM	HY 66 HOME 34.225 KM
HY 68 HOME 34.035 KM	HY 70 HOME 34.201 KM	HY 72 HOME 34.250 KM	HY 74 HOME 34.250 KM	HY 76 HOME 34.214 KM	HY 77 HOME 34.235 KM	HY 78 HOME 34.240 KM	
HY 80 HOME 34.240 KM	HY 82 HOME 34.399 KM	HY 83 HOME 34.326 KM	HY 84 HOME 34.399 KM	HY 85 HOME 34.306 KM	HY 86 HOME 34.399 KM	HY 87 HOME 34.430 KM	
HY 91 HOME 34.380 KM	HY 93 HOME 34.359 KM	HY 94 HOME 34.364 KM	HY 96 HOME 34.469 KM	HY 98 HOME 34.469 KM	HY 99 HOME 34.605 KM		
			HY 101 HOME 34.586 KM	HY 103 HOME 34.586 KM	HY 105 HOME 34.586 KM	HY 124 HOME 34.700 KM	

MULTI SPAD
SIGNAL
HY 72MULTI SPAD
SIGNAL
HY 96

SIGNAL	DESTINATION	INDICATION
HY 50	UP SHORE (S)	-
HY 52	UP SHORE (S)	-
HY 54	UP SHORE (S)	-
HY 56	UP SHORE (S)	-
HY 64	UP SHORE (S)	-
HY 66	UP SHORE (S)	-

SIGNAL	DESTINATION	INDICATION
HY 51	DOWN RELIEF (M)	-
	DOWN RELIEF (S)	-

SIGNAL	DESTINATION	INDICATION
HY 53	DOWN RELIEF (M)	R
	DOWN RELIEF (S)	DR
	TURNBACK 1 (M)	T
	TURNBACK 1 (S)	T1
	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM
	UP MAIN (M)	U
	UP MAIN (S)	UM
	UP SHORE (M)	S
	UP SHORE (S)	US

SIGNAL	DESTINATION	INDICATION
HY 55	TURNBACK 1 (M)	T
	TURNBACK 1 (S)	T1
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	UP MAIN (M)	-
	UP MAIN (S)	UM
	UP SHORE (M)	S
	UP SHORE (S)	US

FIXED TRAIN STOP
 FRICTION BUFFERSTOP
 MAX. SPEED 8KM/H

WHEN THIS SIGNAL IS AT STOP
 WAIT ONE MINUTE
 AND THEN PROCEED
 CAUTIOUSLY TO NEXT SIGNAL

1 IN 413

1 IN 725

1 IN 470

1 IN 1000

1 IN 400

JOINS MAP MN 17

SIGNAL	DESTINATION	INDICATION
HY 57	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	UP MAIN (M)	U
	UP MAIN (S)	UM
	DOWN SHORE (M)	-
	DOWN SHORE (S)	DS
	UP SHORE (M)	S
	UP SHORE (S)	US
	UP SIDING (S)	SG

SIGNAL	DESTINATION	INDICATION
HY 58	DOWN SHORE (M)	-
	DOWN SHORE (S)	2
	UP MAIN (M)	-
	UP MAIN (S)	3

SIGNAL	DESTINATION	INDICATION
HY 59	DOWN SHORE (M)	-
	DOWN SHORE (S)	DS
	UP SHORE (M)	-
	UP SHORE (S)	US
	UP SIDING (S)	SG

SIGNAL	DESTINATION	INDICATION
HY 60	DOWN MAIN (M)	-
	DOWN MAIN (S)	4
	DOWN RELIEF (S)	5

SIGNAL	DESTINATION	INDICATION
HY 61	No.2 UP SIDING (S)	U2
	No.3 UP SIDING (S)	U3
	No.4 UP SIDING (S)	U4
	No.5 UP SIDING (S)	U5
	No.6 UP SIDING (S)	U6
	No.7 UP SIDING (S)	U7

SIGNAL	DESTINATION	INDICATION
HY 62	UP SHORE (M)	-

SIGNAL	DESTINATION	INDICATION
HY 63	NO. 1 UP SIDING (M)	-

SIGNAL	DESTINATION	INDICATION
HY 68	UP SHORE (M)	-
	UP SHORE (S)	US
	DOWN SHORE (S)	2

SIGNAL	DESTINATION	INDICATION
HY 70	UP MAIN (M)	3
	UP MAIN (S)	3
	DOWN MAIN (M)	4
	DOWN MAIN (S)	4

SIGNAL	DESTINATION	INDICATION
HY 72	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (M)	-
	DOWN MAIN (S)	4

SIGNAL	DESTINATION	INDICATION
HY 74	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (M)	-
	DOWN MAIN (S)	4

SIGNAL	DESTINATION	INDICATION
HY 76	UP SHORE (M)	-
	UP SHORE (S)	U
	DOWN SHORE (M)	-
	DOWN SHORE (S)	2

SIGNAL	DESTINATION	INDICATION
HY 77	UP SHORE (M)	-
	UP SHORE (S)	US
	INWARDS CARSHED (S)	IC

SIGNAL	DESTINATION	INDICATION
HY 78	UP SHORE (M)	-
	UP SHORE (S)	US
	UP MAIN (M)	U
	UP MAIN (S)	UM
	DOWN MAIN (M)	4
	DOWN MAIN (S)	4

SIGNAL	DESTINATION	INDICATION
HY 80	UP SHORE (M)	-
	UP SHORE (S)	-

SIGNAL	DESTINATION	INDICATION
HY 82	UP SHORE (M)	-
	UP SHORE (S)	-

SIGNAL	DESTINATION	INDICATION
HY 83	DOWN RELIEF (S)	-

SIGNAL	DESTINATION	INDICATION
HY 84	UP SHORE (M)	-
	UP SHORE (S)	-

SECTION : HORNSBY YARD

PAGE: 3 OF 5

UPDATED TO : 6 March 2025

INFORMATION

HORNSBY YARD

THE HORNSBY INTERLOCKING CONSISTS OF THE AREA BOUNDED
 DOWN MAIN ACCEPT SIGNAL No. **HY 21**
 DOWN SHORE ACCEPT SIGNAL No. **HY 31**
 UP MAIN ACCEPT SIGNAL No. **HY 136**

YARD WORKING IS IN OPERATION WITHIN THE
 HORNSBY INTERLOCKING AND ALL TRAIN MOVEMENTS ARE
 UNDER THE CONTROL OF THE SIGNALLER AT HORNSBY

COLOURED LIGHTS INDICATOR SIGNALS ARE PROVIDED
 WHERE VISIBILITY OF RUNNING SIGNALS IS OBSTRUCTED AS
 FOLLOWS SIGNAL **HY 46** THE INDICATORS ALSO HAS A ROUTE
 INDICATOR ATTACHED TO IT, A LISTING OF
 INDICATIONS CAN BE FOUND IN THE TABLES BELOW

SIGNAL	DESTINATION	INDICATION
HY 85	DOWN RELIEF (S)	-

SIGNAL	DESTINATION	INDICATION
HY 86	OUTWARDS CAR SHED (M)	-
	OUTWARDS CAR SHED	OC
	UP SHORE (M)	-
	UP SHORE (S)	US

SIGNAL	DESTINATION	INDICATION
HY 93	TURNBACK 1 (S)	T1
	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM

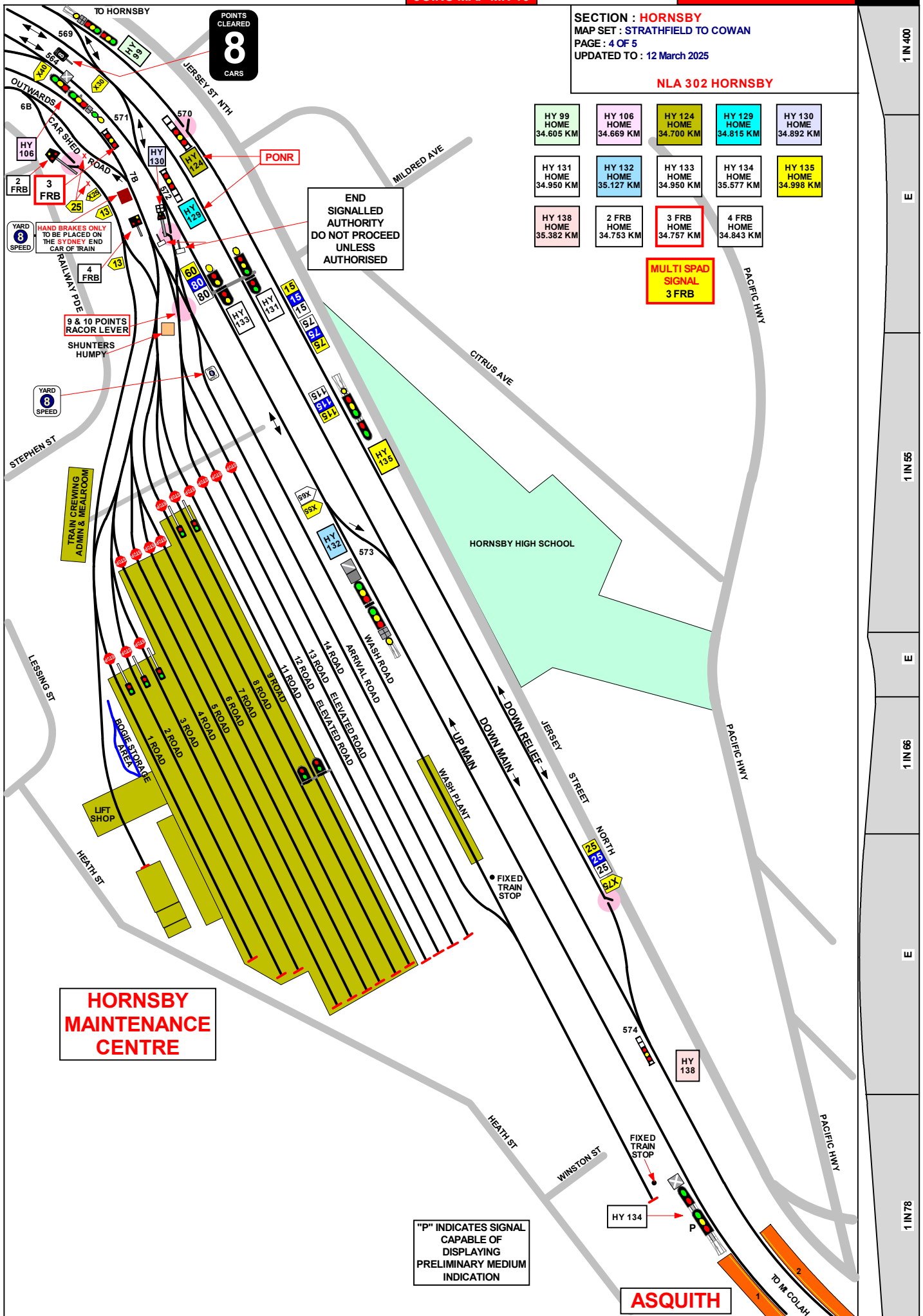
SIGNAL	DESTINATION	INDICATION
HY 94	DOWN RELIEF (M)	DR
	DOWN SIDING (S)	DS

SIGNAL	DESTINATION	INDICATION
HY 96	DOWN MAIN (S)	DM
	TURNBACK 1 (S)	T1

SIGNAL	DESTINATION	INDICATION
HY 99	DOWN RELIEF (M)	-
	DOWN RELIEF (S)	DR
	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
HY 101	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
HY 124	TURNBACK 1 (S)	T1
	DOWN RELIEF (S)	DR



SIGNAL	DESTINATION	INDICATION
HY 99	DOWN RELIEF (M)	-
	DOWN RELIEF (S)	DR
	DOWN MAIN (M)	-
	DOWN MAIN (S)	DM
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
HY 106	UP SHORE (M)	-
	UP SHORE (S)	US
	UP MAIN (M)	-
	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
HY 124	TURNBACK 1 (S)	T1
	DOWN RELIEF (S)	DR

SIGNAL	DESTINATION	INDICATION
HY 129	UP MAIN (S)	UM
	CAR SHEDS (S)	CS

SIGNAL	DESTINATION	INDICATION
HY 130	UP MAIN (S)	UM
	DOWN MAIN (S)	DM
	TURNBACK 1 (S)	T1
	DOWN RELIEF (S)	DR

SECTION : **HORNSBY**
PAGE : 5 OF 5
UPDATED TO : 6 March 2025

SIGNAL	DESTINATION	INDICATION
HY 132	UP MAIN (M)	-
	UP MAIN (S)	UM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	TURNBACK 1 (M)	T
	TURNBACK 1 (S)	T1
	DOWN RELIEF (M)	R
	DOWN RELIEF (S)	DR

SIGNAL	DESTINATION	INDICATION
HY 135	DOWN MAIN (M)	-
	DOWN MAIN (S)	-

SIGNAL	DESTINATION	INDICATION
HY 138	UP MAIN (S)	M
	-	-
	DOWN RELIEF(S)	R

SECTION : **ASQUITH TO MT COLAH**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : 6 March 2025

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **017 (HORNSBY)**

1 IN 78

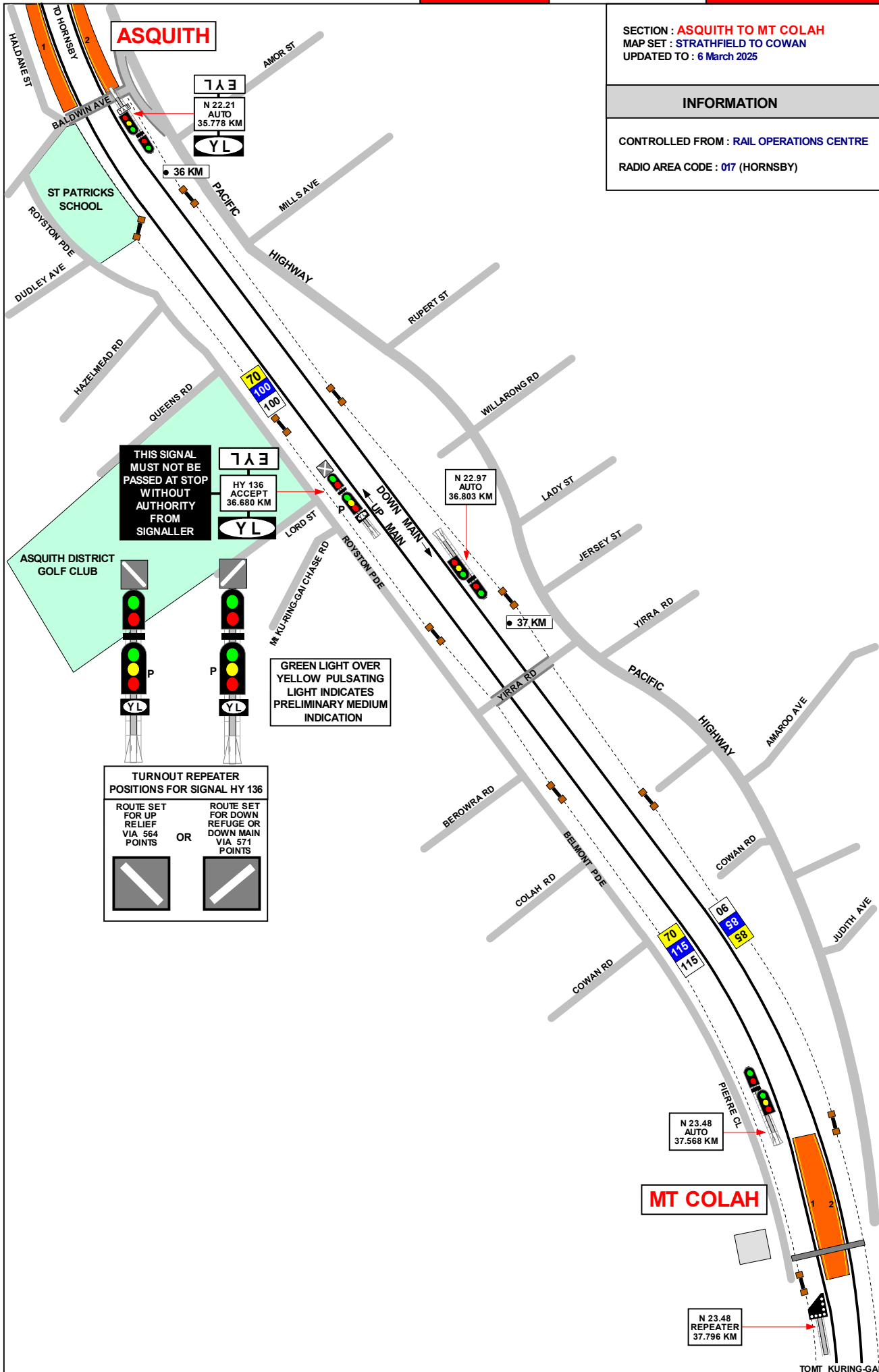
1 IN 64

LEVEL

1 IN 48

1 IN 65

LEVEL



TO HORNSBY

MT COLAH

NORTHUMBERLAND AVE

SECTION : **MT COLAH TO MT KURING-GAI**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : **6 March 2025**

INFORMATIONCONTROLLED FROM : **RAIL OPERATIONS CENTRE**RADIO AREA CODE : **017 (HORNSBY)**

NLA 310 HORNSBY - GOSFORD
 REFER TO NLA 310 FOR MORE INSTRUCTIONS

GRADIENT

LEVEL

SIGNAL KEY SWITCH PROJECT
MOUNT KURING-GAI

UP and DOWN BBTs, REPORT TO HOMEBUSH
 CONTROL CENTRE (HORNSBY NORTH PANEL)

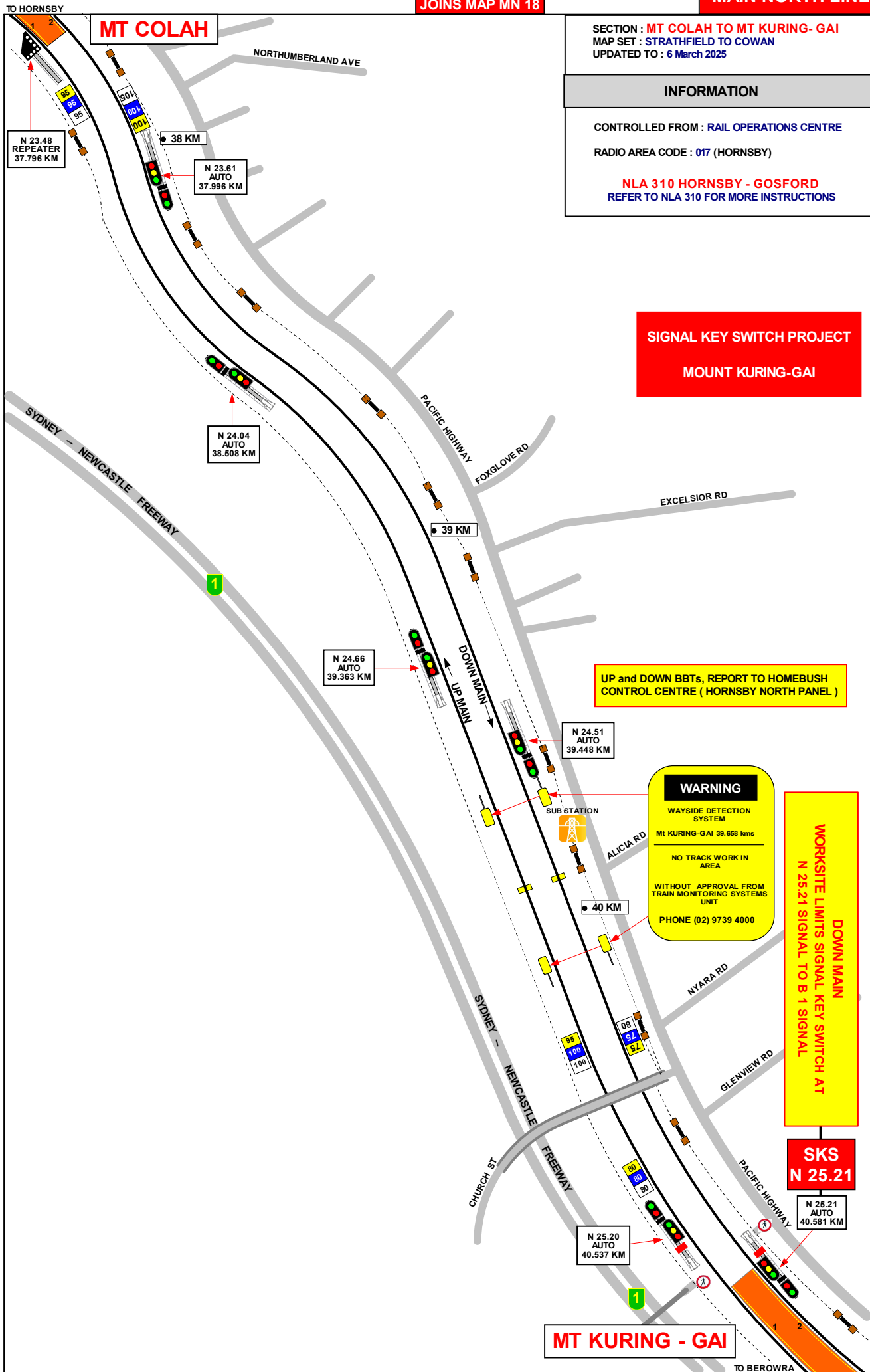
WARNING

WAYSIDE DETECTION
 SYSTEM
 Mt KURING-GAI 39.658 kms
 NO TRACK WORK IN
 AREA
 WITHOUT APPROVAL FROM
 TRAIN MONITORING SYSTEMS
 UNIT
 PHONE (02) 9739 4000

DOWN MAIN
WORKSITE LIMITS SIGNAL KEY SWITCH AT
N 25.21 SIGNAL TO B 1 SIGNAL

SKS
N 25.21

N 25.21
 AUTO
 40.581 KM

MT KURING - GAI

1 IN 100

1 IN 300

1 IN 40

1 IN 275

1 IN 240

1 IN 220

MT KURING - GAI

SECTION : MT KURING- GAI TO BEROWRA
 MAP SET : STRATHFIELD TO COWAN
 UPDATED TO : 6 March 2025

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE
 RADIO AREA CODE : 017 (HORNSBY)
 022 (HORNSBY NORTH)
 NLA 310 HORNSBY - GOSFORD
 REFER TO NLA 310 FOR MORE INSTRUCTIONS

GRADIENT

1 IN 220

1 IN 287

1 IN 1100

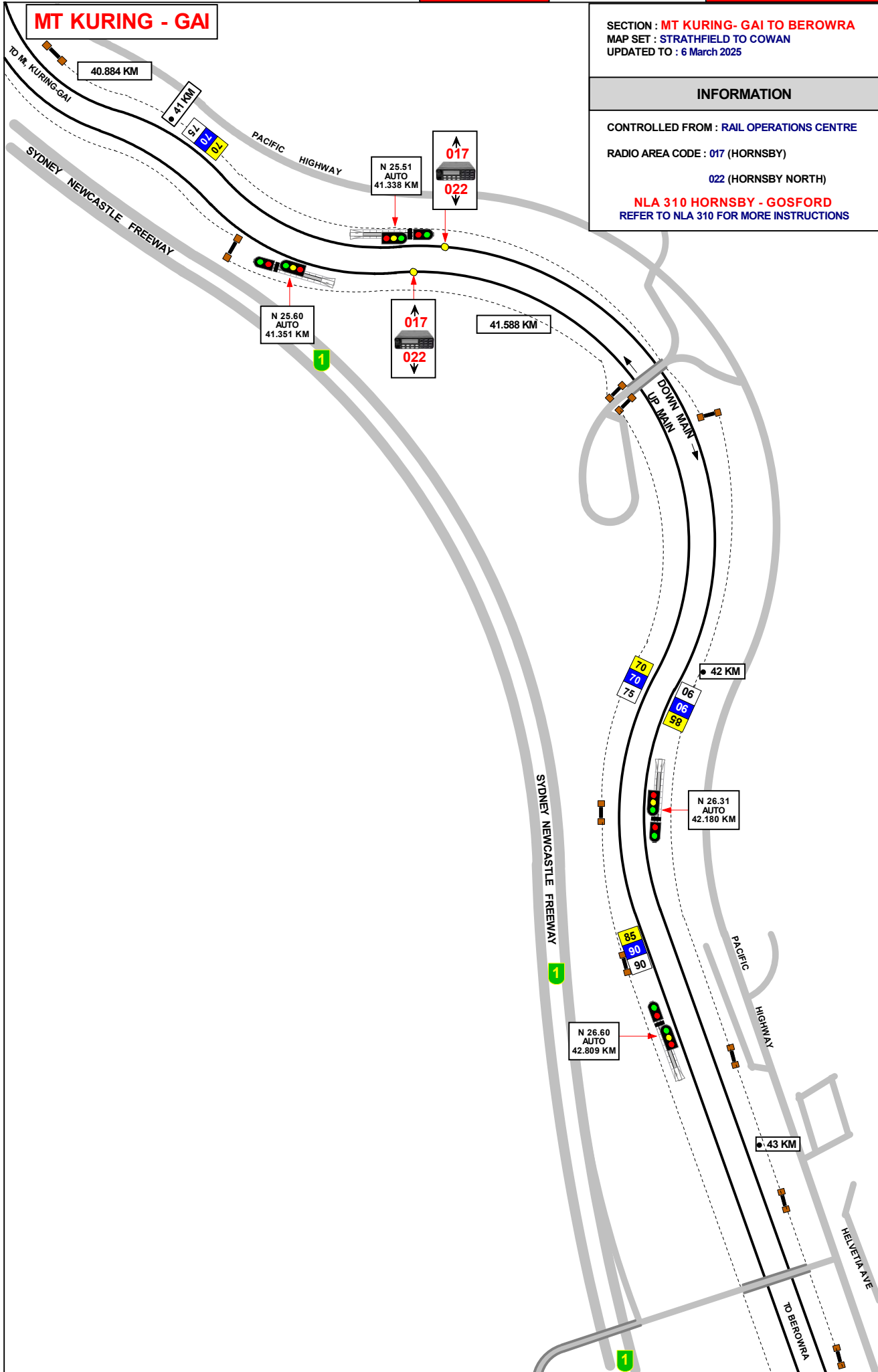
1 IN 220

1 IN 132

1 IN 120

1 IN 314

1 IN 550



SECTION : **MT KURING-GAI TO BEROWRA**
 MAP SET : **STRATHFIELD TO COWAN**
 UPDATED TO : 6 March 2025

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **017 (HORNSBY)**

022 (HORNSBY NORTH)

APPENDICES
 PLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
 TERMINATING MOVEMENTS AND SIDING LENGTHS

NLA 310 HORNSBY - GOSFORD
 REFER TO NLA 310 FOR MORE INSTRUCTIONS

**MULTI SPAD
SIGNAL
B 3**

**MULTI SPAD
SIGNAL
B 11**

