

DRIVERS ROUTE KNOWLEDGE DIAGRAMS

ILLAWARRA LINE

CENTRAL
REDFERN
ERSKINEVILLE
ST PETERS
SYDENHAM
TEMPE
WOLLI CREEK
ARNCLIFFE
BANKSIA
ROCKDALE
KOGARAH
CARLTON
ALLAWAH
HURSTVILLE
PENSHURST
MORTDALE
OATLEY
COMO
JANNALI
SUTHERLAND
LOFTUS
ENGADINE
HEATHCOTE
WATERFALL

Effective Date: September 2026

Version: 6.06

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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Please report any updates to
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Location: CM Record No.D2015/579

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



SECTION : **CENTRAL TO REDFERN**MAP SET : **CENTRAL TO WATERFALL**

PAGE : 2 OF 4

UPDATED TO : 13 July 2026

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 002 (SYDNEY EAST UP)

003 (SYDNEY EAST DOWN)

035 (SYDNEY ILLAWARRA JN)

APPENDICESPLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
TERMINATING MOVEMENTS AND SIDING LENGTHSTWO WAY RUNNING BETWEEN ALL PLATFORMS
IN SYDNEY YARD AND EVELIEGH YARD VIA
ENGINE DIVE

SY 380 S OH 0.185 KM	SY 392 S OH 0.381 KM	SY 384 S HOME 0.260 KM	SY 382 L OH 0.184 KM	SY R384 REPEATER 0.261 KM	SY 386 L HOME 0.300 KML	SY 381 S HOME 0.182 KM	SY 383 L HOME 0.182 KM	SY 383 IND INDICATOR 0.182 KM	SY 389 L HOME 0.325 KM	SY 388 IL HOME 0.281 KM	SY 385 IL HOME 0.181 KM	SY 387 I HOME 0.180 KM
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SY 390 I HOME 0.280 KM	SY 391 IL HOME 0.270 KM	SY 394 L HOME 0.470 KM	SY 395 S OH 0.381 KM	SY 396 IL HOME 0.480 KM	SY 397 L HOME 0.491 KM	SY 398 NS HOME 0.425 KM	SY 399 IL HOME 0.490 KM	SR 0.7 AUTO/CONT STARTING 0.625 KM	SR 0.7 IND INDICATOR 0.625 KM
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SY 400 S HOME 0.612 KM	SY 407 CO-ACT 0.661 KM	SY R403 REPEATER 0.542 KM	SY 403 S HOME 0.541 KM	SY 402 L HOME 0.660 KM	SY R409 REPEATER 0.763 KM	SY 404 IL HOME 0.650 KM	SY R411 REPEATER 0.762 KM	SY 406 I HOME 0.611 KM	SY 422 NS ACCEPT 0.660 KM
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SY 115 SHUNT 0.742 KM	SY 117 SHUNT 0.740 KM	SY 116 SHUNT 0.741 KM	SY 122 HOME 0.840 KM	SY 123 HOME 0.832 KM	SY 121 SHUNT 0.831 KM	SY 120 HOME 0.830 KM	SY 410 S OH 0.814 KM	SY 407 S HOME 0.764 KM	SY 412 L OH 0.813 KM	SY 409 L HOME 0.763 KM	SY 414 IL OH 0.812 KM	SY 411 IL AUTO 0.762 KM	SY 416 I OH 0.811 KM	SY 413 I OH 0.840 KM
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SY 127 HOME 0.990 KM	SY 126 M HOME 1.004 KM	R126 1.066 KM	SY 124 SHUNT 1.001 KM	SY 435 M HOME 0.997 KM	SY 434 S HOME 1.001 KM	SY 428 SHUNT 1.004 KM	SY 437 S HOME 1.001 KM	SY 436 L HOME 1.040 KM	SY 439 L HOME 1.014 KM	SY 438 IL HOME 1.042 KM	SY 441 IL AUTO 1.010 KM	SY 430 I OH 1.043 KM	SY 433 I OH 0.912 KM
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SY 130 ED HOME ?.??? KM	SY 131 M HOME 1.214 KM	SY R131 REPEATER 1.215 KM	SY 445 M HOME 1.184 KM	SY 440 S HOME 1.213 KM	SY 447 S OH 1.183 KM	SY 442 L HOME 1.212 KM	SY 449 L OH 1.182 KM	SY 444 IL AUTO 1.211 KM	SY 451 IL OH 1.181 KM	SY 446 I OH 1.210 KM	SY 443 I OH 1.091 KM	SY 453 I OH 1.180 KM
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SIGNAL	DESTINATION	INDICATION
SY 115	UP GOODS	G
	UP MAIN	M
	REGENTS STREET	R

SIGNAL	DESTINATION	INDICATION
SY 391 IL	DOWN NSR AIRPORT	A
	DOWN ILLAWARRA LOCAL	-
	DOWN LOCAL	L

SIGNAL	DESTINATION	INDICATION
SY 117	UP MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SY 428	DOWN MAIN	DM
	DOWN SUBURBAN (S)	DS

SIGNAL	DESTINATION	INDICATION
SY 121	DOWN MAIN (S)	DM
	DOWN STEAM (S)	DS

SIGNAL	DESTINATION	INDICATION
SY 436 L	UP MAIN	M
	UP SUBURBAN	Y

SIGNAL	DESTINATION	INDICATION
SY 124	DOWN MAIN (S)	DM
	DOWN STEAM (S)	DS

SIGNAL	DESTINATION	INDICATION
SY 127	UP MAIN (M)	-
	UP MAIN (S)	UM
	ENGINE DIVE (M)	-
	ENGINE DIVE (S)	ED



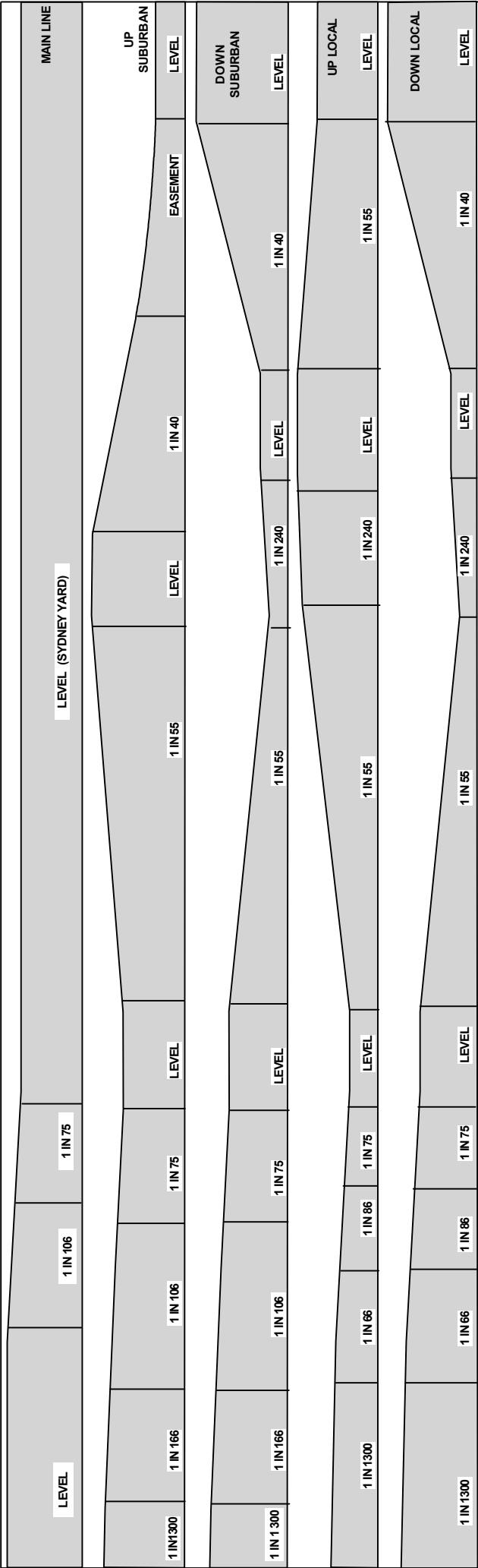
SIGNAL SY 389 L



SIGNAL SY 407 S



SIGNAL SY 436 L



SECTION : **CENTRAL TO REDFERN**
MAP SET : **CENTRAL TO WATERFALL**
PAGE : 3 OF 4
UPDATED TO : 6 August 2025

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **002** (SYDNEY EAST UP)
003 (SYDNEY DOWN)
035 (SYDNEY ILLAWARRA JN)

APPENDICES

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

TWO WAY RUNNING IN EVELEIGH ENGINE DIVE AND
ON THE UP MAIN BETWEEN THE TAL SIGNAL BRIDGE IN
SYDNEY YARD AND REDFERN

CENTRAL
TIMING MARKER SIGNS

FOUR TIMING MARKER SIGNS, EACH WITH A YELLOW REFLECTIVE LETTER 'T' DISPLAYED ON A BLACK BACKGROUND, ARE PROVIDED IN THE CENTRAL FLYOVER AREA WHERE THE TIMING SECTIONS ARE UNUSUALLY SHORT.

THEY ARE LOCATED AS FOLLOWS:

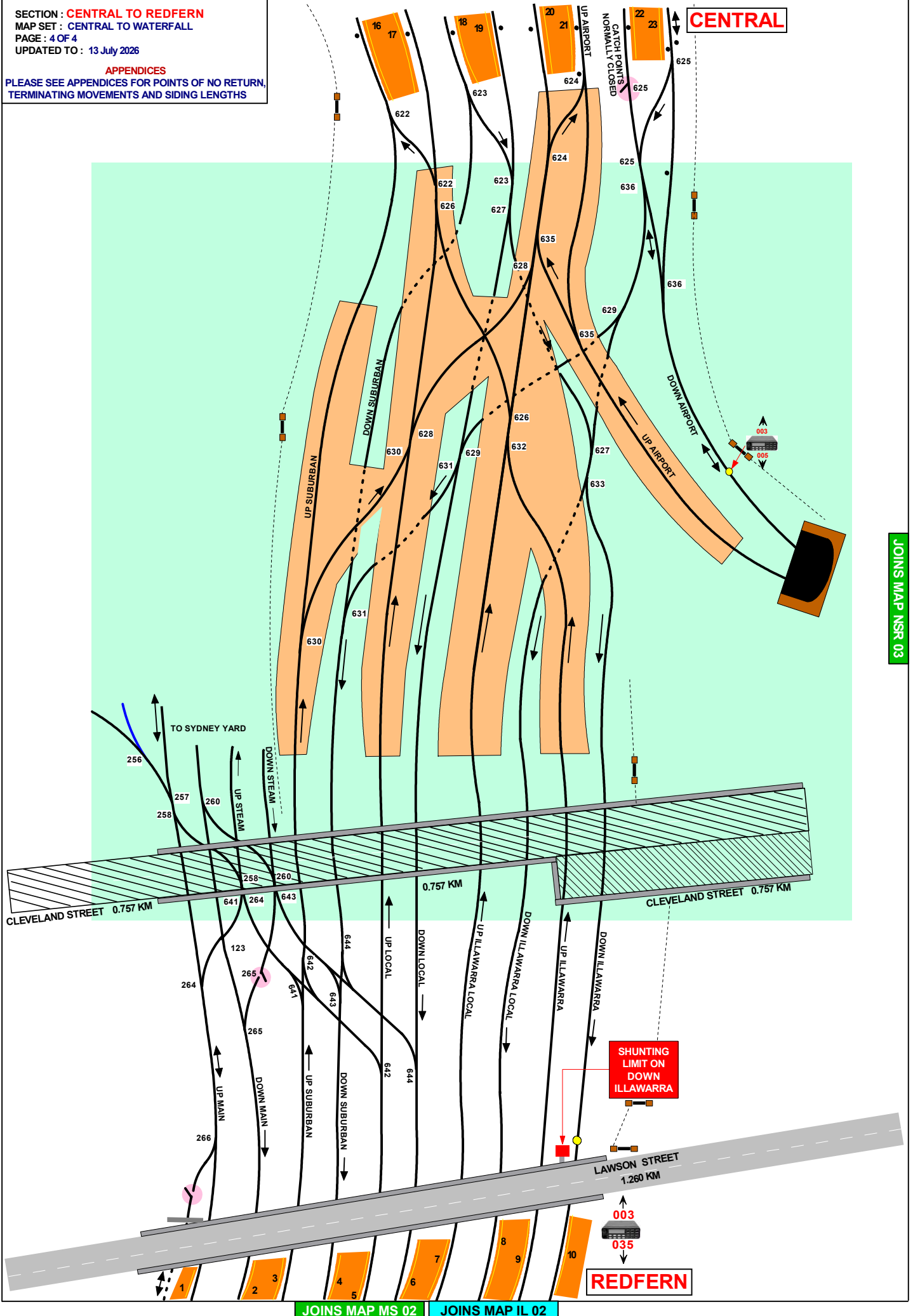
LINE	MARKER LOCATION
DOWN LOCAL	23 METRES IN APPROACH TO SIGNAL No. SY 397 L
UP LOCAL	16 METRES IN APPROACH TO SIGNAL No. SY 394 L
UP ILLAWARRA LOCAL	36 METRES IN APPROACH TO SIGNAL No. SY 388 IL, AND 16 METRES IN APPROACH TO SIGNAL No. 396 IL

A TRAIN APPROACHING ANY OF THESE SIGNALS AND SHOWING A LOW SPEED OR MEDIUM CAUTION INDICATION SHALL BE DRAWN PAST THE 'T' MARKER SIGN, OTHERWISE THE TIMING WILL NOT COMMENCE AND THE TRAIN STOP WILL NOT CLEAR.

SECTION : **CENTRAL TO REDFERN**MAP SET : **CENTRAL TO WATERFALL**

PAGE : 4 OF 4

UPDATED TO : 13 July 2026

APPENDICESPLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
TERMINATING MOVEMENTS AND SIDING LENGTHS**CENTRAL**

SECTION: REDFERN TO ERSKINEVILLE
REDFERN TO MACDONALDTOWN
MAP SET: CENTRAL TO WATERFALL
PAGE: 1 OF 4
UPDATED TO: 16 June 2026

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

SY 1.49 AUTO 2.385 KM YL	SY 1.49 AUTO 2.385 KM YL	SY 499 IL AUTO 1.957 KM YL
SY 516 L ACCEPT 2.385 KM YL	SY 518 M ACCEPT 2.600 KM YL	SY 520 S ACCEPT 2.600 KM YL
SY 522 L ACCEPT 2.601 KM YL	SY 536 IL ACCEPT 2.396 KM YL	

NLA 100 CENTRAL
REFER TO NLA 100 FOR
GBWS
PROCEDURES

W
W
TRAINS EX
MAC'TOWN
YARD
SIGN TO TEST
WHISTLE X
MAC'TOWN
YARD

POINTS
CLEARED
8
CARS

UP ILLAWARRA DIVE
DOWN ILLAWARRA DIVE

REDFERN
FOR PLATFORMS 11 & 12
REFER TO MAP ESR 05 &
ESR 06

EVELEIGH ENGINE DIVE

JOINS MAP
YARDS 14

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

POINTS
CLEARED
8
CARS

POINTS
CLEARED
8
CARS

JOINS MAP
YARDS 14

MACDONALDTOWN

MACDONALDTOWN
STABLING YARD
THESE SIGNS LOCATED
WITHIN THE YARD
(BACK TO BACK)

TRAIN
WHISTLE
RESTRICTIONS
APPLY IN THIS
YARD

SECTION : REDFERN TO ERSKINEVILLE
REDFERN TO MACDONALDTOWN

MAP SET : CENTRAL TO WATERFALL

PAGE : 2 of 4

UPDATED TO : 16 June 2026

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 002 (SYDNEY EAST UP)
003 (SYDNEY EAST DN)
035 (SYDNEY ILLAWARRA JN)

CONTROLLED FROM : SYDENHAM

RADIO AREA CODE : 007 (SYDENHAM)

SPECIAL POINTS OF INTEREST

ERSKINEVILLE

SETTING BACK IS NOT PERMITTED AT ERSKINEVILLE ON THE
DOWN ILLAWARRA LOCAL No. 2 PLATFORM.

APPENDICES

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

SY 460 M HOME 1.495 KM	SY 462 V HOME 1.490 KM	SY 455 1.328 KM	SY 448 1.404 KM	SY 457 M HOME 1.391 KM	SY 450 S O/HOME 1.410 KM	SY 459 S O/HOME 1.389 KM	SY 452 L O/HOME 1.410 KM	SY 461 L O/HOME 1.417 KM	SY 454 IL AUTO 1.434 KM	SY 463 IL HOME 1.395 KM	SY 456 I O/HOME 1.494 KM	SY 467 1.386 KM	SY 465 I HOME/ STARTING 1.391 KM	SY 136 D HOME 1.544 KM	SY 138 No.1 HOME 1.551 KM	SY 137 D HOME 1.527 KM
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SY 466 M O/HOME 1.595 KM	SY 468 UV HOME 1.591 KM	SY 470 DV HOME 1.591 KM	SY 471 V O/HOME 1.577 KM	SY 475 V O/HOME 1.684 KM	SY 472 S AUTO 1.591 KM	SY 474 L O/HOME 1.591 KM	SY 476 IL AUTO 1.636 KM	SY 473 IL O/HOME 1.630 KM	SY 478 I HOME 1.630 KM	SY 140 1.598 KM	SY 469 I AUTO 1.596 KM
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SY 480 M O/HOME 1.767 KM	SY 481 M O/HOME 1.764 KM	SY 482 S AUTO 1.764 KM	SY 483 S O/HOME 1.764 KM	SY 484 L O/HOME 1.764 KM	SY 485 L HOME 1.796 KM	SY 486 IL O/HOME 1.818 KM	SY 487 IL HOME 1.796 KM	SY 488 I O/HOME 1.822 KM	SY 489 I AUTO 1.733 KM
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SY 512 M HOME 2.245 KM	SY 513 M AUTO 2.220 KM	SY 514 S HOME 2.245 KM	S 1.49 AUTO 2.385 KM	SY 516 L HOME 2.385 KM	SY 517 AUTO 2.220 KM	L 1.49 AUTO 2.385 KM	SY 528 IL HOME 2.124 KM	SY 529 IL STARTING 2.121 KM	SY 530 I AUTO 2.169 KM	SY 531 I HOME 2.154 KM	SY 532 DV AUTO 2.156 KM	SY 533 V HOME 2.243 KM
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SY 490 M O/HOME 1.925 KM	SY 493 M HOME 1.943 KM	SY 492 S O/HOME 1.943 KM	SY 495 S HOME / STARTING 1.942 KM	SY 494 L HOME 1.965 KM	SY 507 1.958 KM	508	SY 497 L HOME / STARTING 1.965 KM	SY 496 IL HOME 1.978 KM	SY 498 V HOME 1.966 KM	SY 499 IL AUTO 1.957 KM	SY 500 I AUTO 1.980 KM	SY 501 I O/HOME 1.980 KM	502 AUTO 2.124 KM	503 AUTO 2.117 KM	SY 525 V HOME 2.053 KM
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SY 536 IL ACCEPT 2.396 KM	SY 546 IL HOME 2.622 KM	SY 552 IL HOME 2.787 KM	SY 535 IL HOME 2.345 KM	IL 1.5 AUTO 2.618 KM	IL 1.7 AUTO 2.751 KM	SY 538 I HOME 2.396 KM	SY 540 I O/HOME 2.622 KM	SY 537 I O/HOME 2.345 KM	SY 539 I REPEAT 2.517 KM	SY 539 I HOME 2.618 KM	SY 547 I O/HOME 2.787 KM	SY 542 I 2.790 KM	SY 541 I HOME 2.605 KM	SY 543 IR ACCEPT 2.837 KM	SY 545 IR HOME 2.915 KM	SY 544 I 2.797 KM
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MULTI SPAD SIGNAL SY 481 M	MULTI SPAD SIGNAL SY 516 L	MULTI SPAD SIGNAL SY 537 I
MULTI SPAD SIGNAL 502	MULTI SPAD SIGNAL SY 483 S	

RADIO TRANSPONDER AREA NUMBERS

	001	002	003	035	001	258
	035	035	035	258	258	035

SECTION : REDFERN TO ERSKINEVILLE
REDFERN TO MACDONALD TOWN

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 002 (SYDNEY EAST UP)
003 (SYDNEY EAST DN)
035 (SYDNEY ILLAWARRA JN)MAP SET : CENTRAL TO WATERFALL
PAGE : 3 OF 4
UPDATED TO : 6 August 2025

CONTROLLED FROM : SYDENHAM

RADIO AREA CODE : 007 (SYDENHAM)

SPECIAL POINTS OF INTEREST

ERSKINEVILLE

SETTING BACK IS NOT PERMITTED AT ERSKINEVILLE ON THE
DOWN ILLAWARRA LOCAL No. 2 PLATFORM.

APPENDICES

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

SIGNAL	DESTINATION	INDICATION
SY 138	UP ILLAWARRA (S)	UI
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
SY 140	UP ILLAWARRA (S)	UI
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
SY 455	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	DOWN ILLAWARRA DIVE (M) (VIA 647 & 649 POINTS)	I
	DOWN ILLAWARRA DIVE (S) (VIA 647 & 649 POINTS)	ID
	DOWN ILLAWARRA DIVE (M) (VIA 648 & 655 POINTS)	I
	DOWN ILLAWARRA DIVE (S) (VIA 648 & 645 POINTS)	ID
	ELSTON SIDINGS (S)	ES

SIGNAL	DESTINATION	INDICATION
SY 465 I	ARRIVAL/DEPARTURE ROAD (S)	AD
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
SY 467	ARRIVAL/DEPARTURE ROAD (S)	AD
	DOWN ILLAWARRA (S)	DI

SIGNAL	DESTINATION	INDICATION
502	UP LOCAL	UL
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
503	SIDING No.1	S1
	SIDING No.2	S2
	SIDING No.3	S3
	SIDING No.4	S4
	SIDING No.5	S5
	SIDING No.6	S6

SIGNAL	DESTINATION	INDICATION
SY 507	TURN BACK	TB
	DOWN LOCAL	DL
	DOWN SUBURBAN	DS

SIGNAL	DESTINATION	INDICATION
SY 508	UP LOCAL	UL

SIGNAL	DESTINATION	IND.
SY 531 I	DOWN ILLAWARRA (M)	-
	DOWN ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 533 V	DOWN ILLAWARRA (M)	-
	DOWN ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 535 IL	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	-

SIGNAL	DESTINATION	IND.
SY 537 I	DOWN ILLAWARRA (M)	-
	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA (S)	DI
	DOWN ILLAWARRA LOCAL (S)	DL

DI DL

SIGNAL	DESTINATION	IND.
SY 538 I	UP ILLAWARRA DIVE (M)	-
	UP ILLAWARRA (M)	-
	UP ILLAWARRA DIVE (S)	ID
	UP ILLAWARRA (S)	UI

DI DL

SIGNAL	DESTINATION	INDICATION
SY 539 I	DOWN ILLAWARRA	-
	DOWN ILLAWARRA	-

SIGNAL	DESTINATION	IND.
SY 540 I	UP ILLAWARRA (M)	-
	UP ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 541 I	DOWN ILLAWARRA (M)	-
	UP ILLAWARRA (S)	-

SIGNAL	DESTINATION	IND.
SY 546 IL	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA (M)	-
	UP ILLAWARRA (S)	UL
	UP ILLAWARRA LOCAL (S)	UI

UL UI

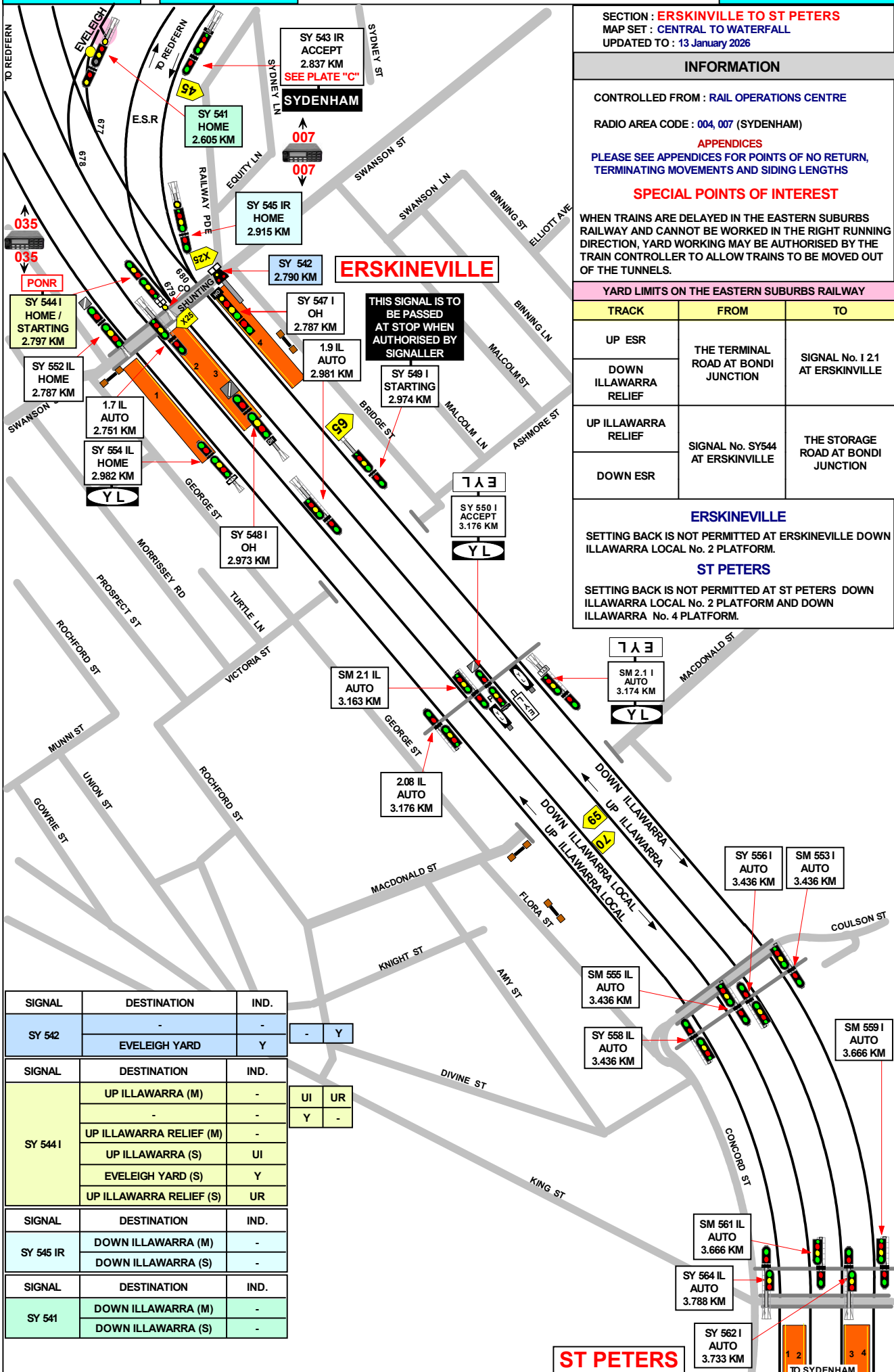
SIGNAL	DESTINATION	IND.
SY 544 IL	UP ILLAWARRA (M)	-
	-	-
	UP ILLAWARRA RELIEF (S)	UI
	EVELEIGH YARD (S)	Y
	UP ILLAWARRA RELIEF (S)	UR

UI UR

ELSTON CARRIAGE WORKS



JOINS MAP IL 03



SECTION : **ST PETERS TO SYDENHAM**MAP SET : **CENTRAL TO WATERFALL**UPDATED TO : **6 August 2025**

GRADIENT

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**RADIO AREA CODE : **007 (SYDENHAM)****005 (SYDENHAM)****004 (SYDENHAM)**

APPENDICES

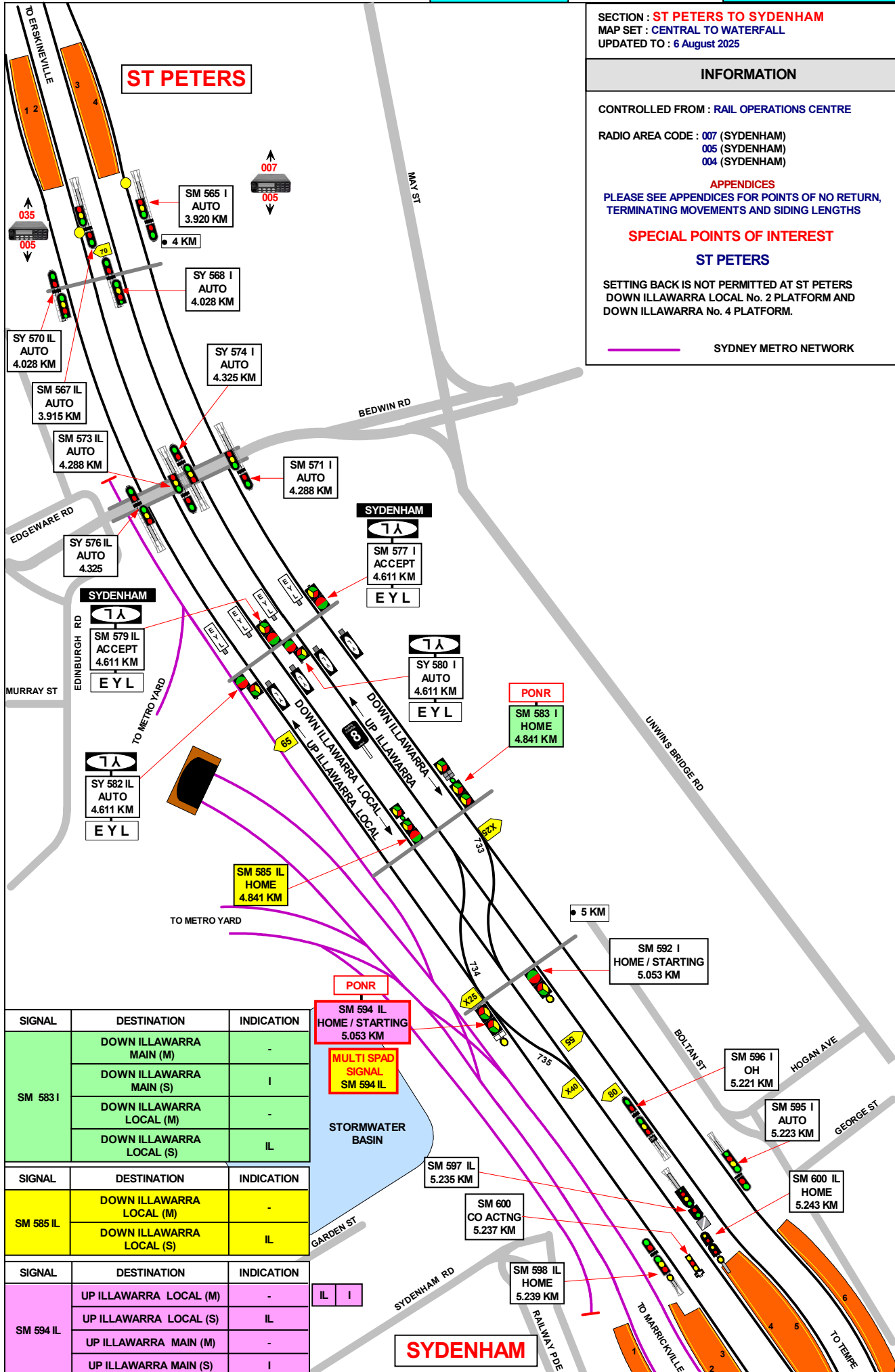
PLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
TERMINATING MOVEMENTS AND SIDING LENGTHS

SPECIAL POINTS OF INTEREST

ST PETERS

SETTING BACK IS NOT PERMITTED AT ST PETERS
DOWN ILLAWARRA LOCAL No. 2 PLATFORM AND
DOWN ILLAWARRA No. 4 PLATFORM.

SYDNEY METRO NETWORK



SECTION : SYDENHAM TO TEMPE

MAP SET : CENTRAL TO WATERFALL

PAGE: 1 OF 2

UPDATED TO : 2 June 2026

GRADIENT

INFORMATION

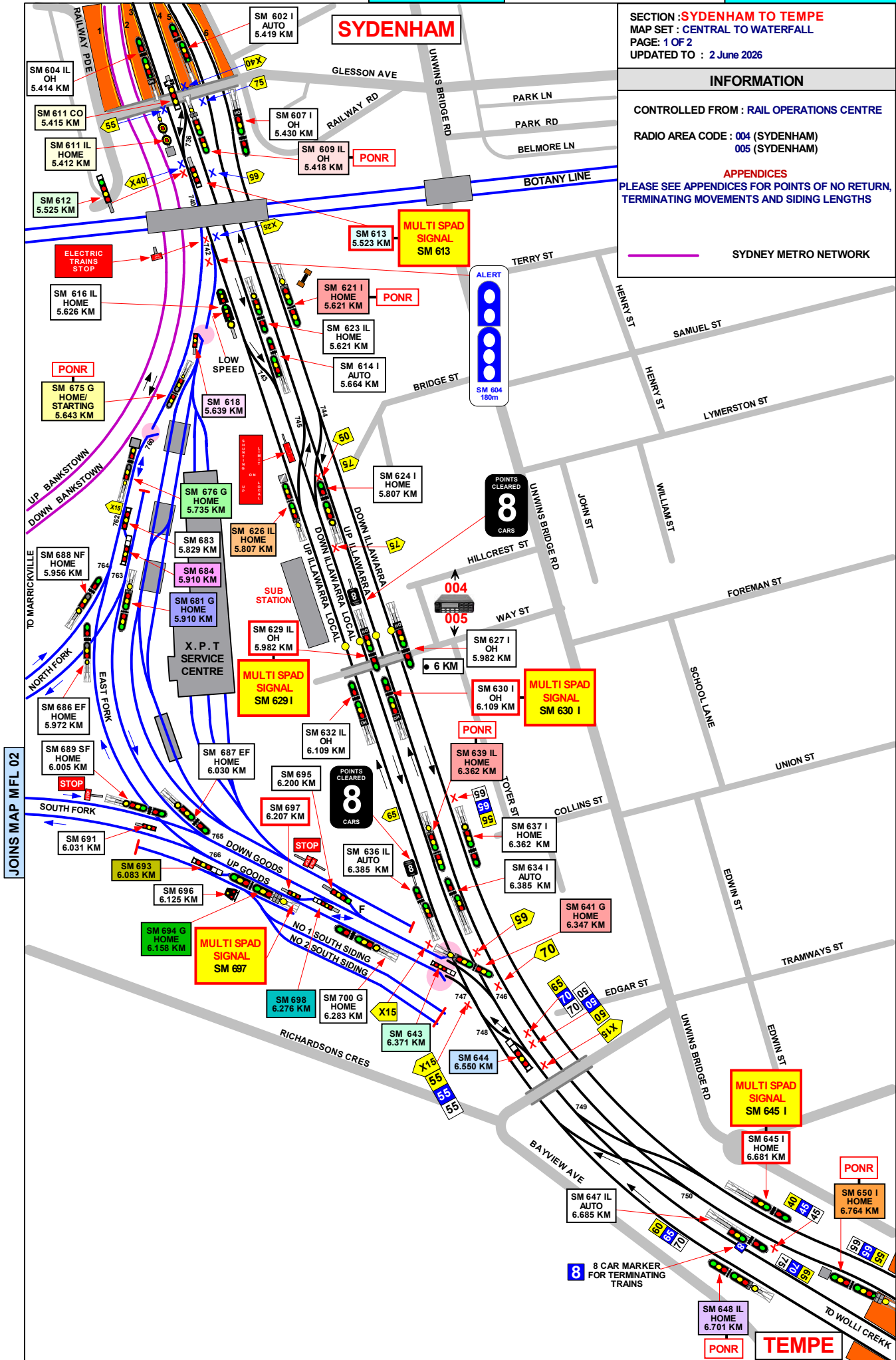
CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 004 (SYDENHAM)
005 (SYDENHAM)

APPENDICES

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

SYDNEY METRO NETWORK



SIGNAL	DESTINATION	INDICATION
SM 609	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	D
	UP ILLAWARRA LOCAL (S)	U
	DOWN GOODS (M)	-

SIGNAL	DESTINATION	INDICATION	CO-ACT IND
SM 611	DOWN ILLAWARRA LOCAL (M)	L	L
	UP ILLAWARRA LOCAL (S)	-	-
	DOWN GOODS (M)	G	G

SIGNAL	DESTINATION	INDICATION
SM 612	UP ILLAWARRA LOCAL (S) (GREEN LIGHT)	U
	DOWN ILLAWARRA LOCAL (S)	D

SIGNAL	DESTINATION	INDICATION
SM 613	DOWN ILLAWARRA LOCAL (S)	D
	UP ILLAWARRA LOCAL (S) (SHUNTING LIMIT)	U
	XPT MAINTENANCE CENT	X
	DOWN GOODS (S)	G

SIGNAL	DESTINATION	INDICATION
SM 618	UP ILLAWARRA LOCAL (S)	-

SIGNAL	DESTINATION	INDICATION
SM 621 I & SM 639 IL & SM 641 G	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	I
	DOWN ILLAWARRA LOCAL (M)	-
	DOWN ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 626 IL	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	I

SIGNAL	DESTINATION	INDICATION
SM 643	UP ILLAWARRA MAIN	I
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
SM 644	UP GOODS	G
	UP ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
SM 648 IL	UP GOODS (M)	-
	UP GOODS (S)	G
	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL

SIGNAL	DESTINATION	INDICATION
SM 650 I	UP GOODS (M)	G
	UP GOODS (S)	G
	UP ILLAWARRA LOCAL (M)	IL
	UP ILLAWARRA LOCAL (S)	IL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	I

SIGNAL	DESTINATION	INDICATION
SM 675 G	DOWN GOODS	M
	DOWN GOODS	S

SIGNAL	DESTINATION	INDICATION
SM 676 G	UP ILLAWARRA LOCAL (M)	U
	UP ILLAWARRA LOCAL (S)	-
	DOWN ILLAWARRA LOCAL (M)	D

SIGNAL	DESTINATION	INDICATION
SM 681 G	DOWN EAST FORK (M)	-
	DOWN EAST FORK (S)	EF
	DOWN NORTH FORK (M)	-
	DOWN NORTH FORK (S)	NF

SIGNAL	DESTINATION	INDICATION
SM 684	GOODS LINE	G
	NORTH SHUNTING NECK	N

SECTION : **SYDENHAM TO TEMPE**
MAP SET : **CENTRAL TO WATERFALL**
PAGE: 2 OF 2
UPDATED TO : 1 May 2026

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 004 (SYDENHAM)
005 (SYDENHAM)

APPENDICES

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

SIGNAL	DESTINATION	INDICATION
SM 693	UP GOODS	UG
	SIDING	S

SIGNAL	DESTINATION	INDICATION
SM 694 G	UP SHUNTING NECK (S)	SN
	UP SOUTH FORK (M)	-
	UP SOUTH FORK (S)	SF
	UP EAST FORK (M)	-
	UP EAST FORK (S)	EF

SIGNAL	DESTINATION	INDICATION
SM 698	UP GOODS	UG
	DOWN GOODS	DG

PROPELLING MOVEMENTS

ALL PROPELLING MOVEMENTS MUST BE CARRIED OUT AS PER PROCEDURES SET OUT IN "NTR 424 / OSP 15" IN THE NETWORK RULES AND OPERATORS SPECIFIC PROCEDURES MANUALS.

SELF-PROPELLED DIESEL TRAINS MAY TERMINATE ON

FROM	TERMINATE AT	THEN GO TO
	DOWN EAST FORK	RETURN TO THE UP NORTH FORK VIA No. 762 POINTS.
	DOWN GOODS LINE	RETURN TO THE UP SOUTH FORK VIA No. 770 POINTS.
	DOWN ILLAWARRA LOCAL LINE AT SIGNAL No. SM 644	RETURN TO EITHER THE UP NORTH FORK VIA Nos. 775 AND 773 POINTS OR THE DOWN SOUTH FORK VIA No. 775 POINTS

TO SYDENHAM

JOINS MAP IL 05

SECTION : **TEMPE TO ARNCLIFFE**
 MAP SET : **CENTRAL TO WATERFALL**
 UPDATED TO : 5 August 2026

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 005 (SYDENHAM)

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

SPECIAL POINTS OF INTEREST

GRADIENT

1 IN 500

LEVEL

1 IN 185

1 IN 100

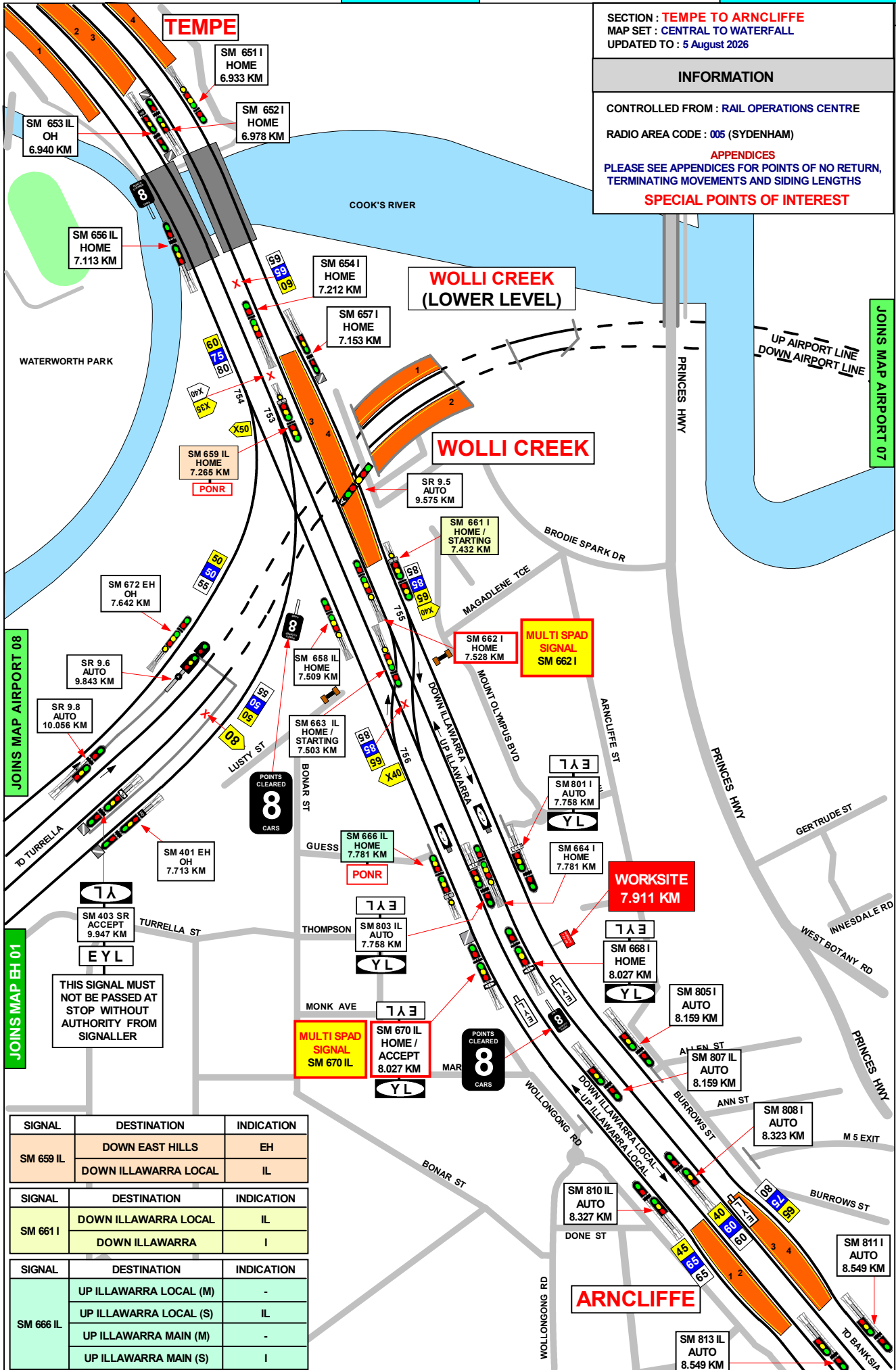
1 IN 87

1 IN 103

1 IN 70

1 IN 124

1 IN 93



SIGNAL	DESTINATION	INDICATION
SM 659 IL	DOWN EAST HILLS	EH
	DOWN ILLAWARRA LOCAL	IL

SIGNAL	DESTINATION	INDICATION
SM 661 I	DOWN ILLAWARRA LOCAL	IL
	DOWN ILLAWARRA	I

SIGNAL	DESTINATION	INDICATION
SM 666 IL	UP ILLAWARRA LOCAL (M)	-
	UP ILLAWARRA LOCAL (S)	IL
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	I

JOINS MAP IL 07

SECTION : ARNCLIFFE TO ROCKDALE
 MAP SET : CENTRAL TO WATERFALL
 UPDATED TO : 2 September 2026

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 005 (SYDENHAM)

UP MAIN
WORKSITE LIMITS SIGNAL KEY SWITCH AT
SM 840 I SIGNAL TO SM 808 I SIGNAL

KEYS INSCRIBED AS FOLLOWS
SM 842 IL UP ILLAWARRA LOCAL
7.911 KM TO 10.152 KM

WORKSITE

DO NOT PASS AT
 STOP WITHOUT
 AUTHORITY

GRADIENT

1 IN 93

1 IN 132

1 IN 116

1 IN 97

1 IN 165

LEVEL

1 IN 253

1 IN 336

1 IN 1002

1 IN 3300

1 IN 388

1 IN 1100

ARNCLIFFE

SM 811 I
 AUTO
 8.549 KM

SM 813 IL
 AUTO
 8.549 KM

SM 816 IL
 AUTO
 8.584 KM

SM 814 I
 AUTO
 8.584 KM

SM 819 IL
 AUTO
 8.945 KM

SM 822 IL
 AUTO
 9.133 KM
 SEE PLATE "B"

SM 825 IL
 AUTO
 9.290 KM
 SEE PLATE "B"

SM 828 IL
 AUTO
 9.518 KM

SM 817 I
 AUTO
 8.945 KM
 SEE PLATE "B"

SM 820 I
 AUTO
 9.133 KM
 SEE PLATE "B"

SM 823 I
 AUTO
 9.290 KM
 SEE PLATE "B"

SM 826 I
 AUTO
 9.518 KM

SM 833 IL
 AUTO/CONT
 HOME
 9.700 KM
 SEE PLATE "A"

SM 831 I
 AUTO/CONT
 HOME
 9.700 KM
 SEE PLATE "A"

SM 834 I
 AUTO/CONT
 HOME
 9.880 KM
 SEE PLATE "A"

SM 837 I
 AUTO
 10.142 KM

SM 836 IL
 AUTO
 9.880 KM

SM 839 IL
 AUTO
 10.142 KM

SM 842 IL
 AUTO/CONT
 HOME
 10.320 KM

SKS
 SM 840 I

SM 840 I
 AUTO
 10.320 KM
 SEE PLATE "B"

PLATE "A"

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 PERWAY SIDING
 AND MUST NOT RESTART UNTIL
 SATISFIED SHUNTING IS NOT TAKING
 PLACE

PLATE "B"

DRIVERS WHEN PASSING THIS
 SIGNAL AT STOP MUST PROCEED
 WITH CAUTION AND BRING THEIR
 TRAIN TO A STAND CLEAR OF THE
 PERWAY SIDING AND MUST NOT
 RESTART UNTIL SATISFIED
 SHUNTING IS NOT TAKING PLACE

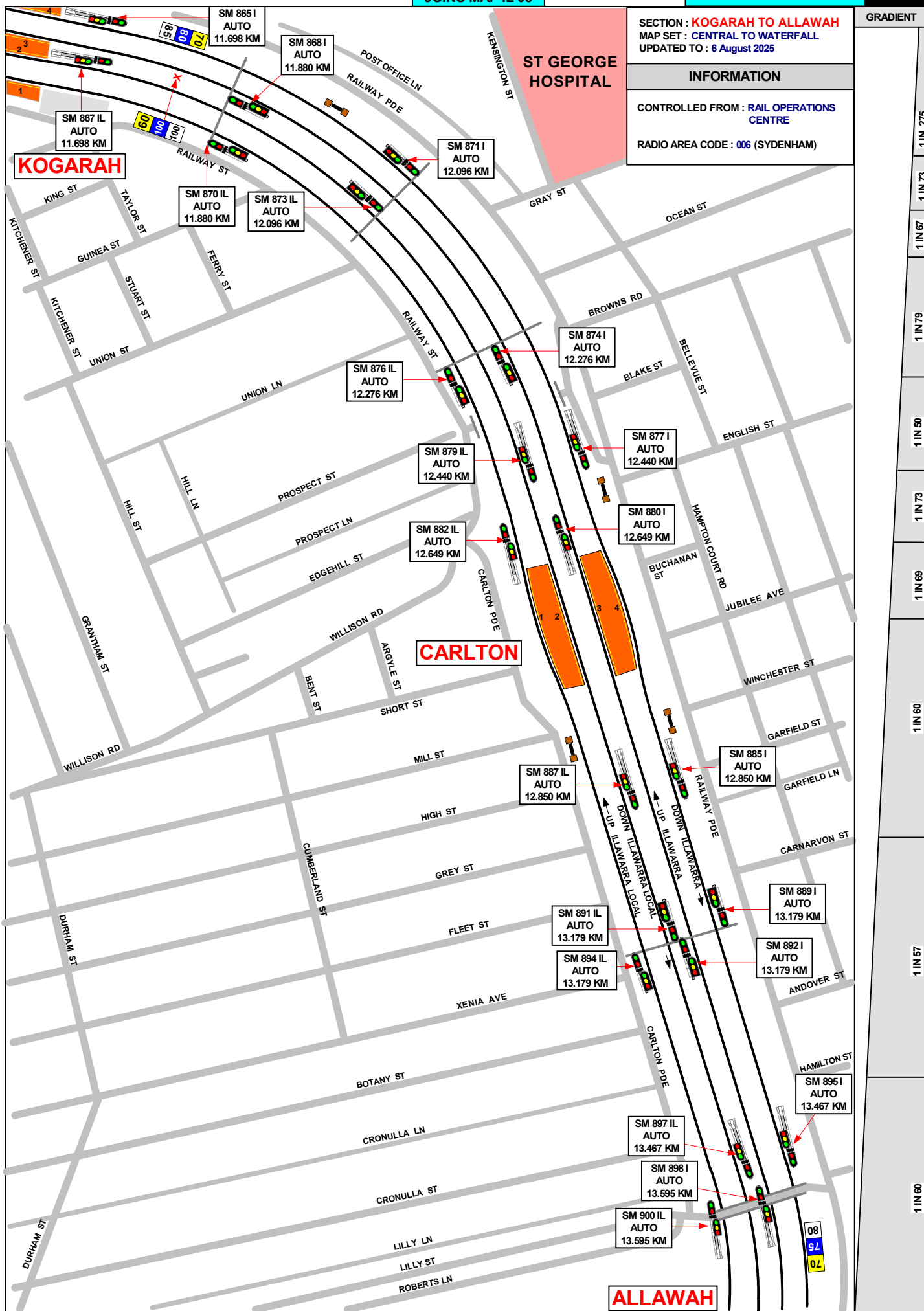
WORKSITE
 10.084 KM

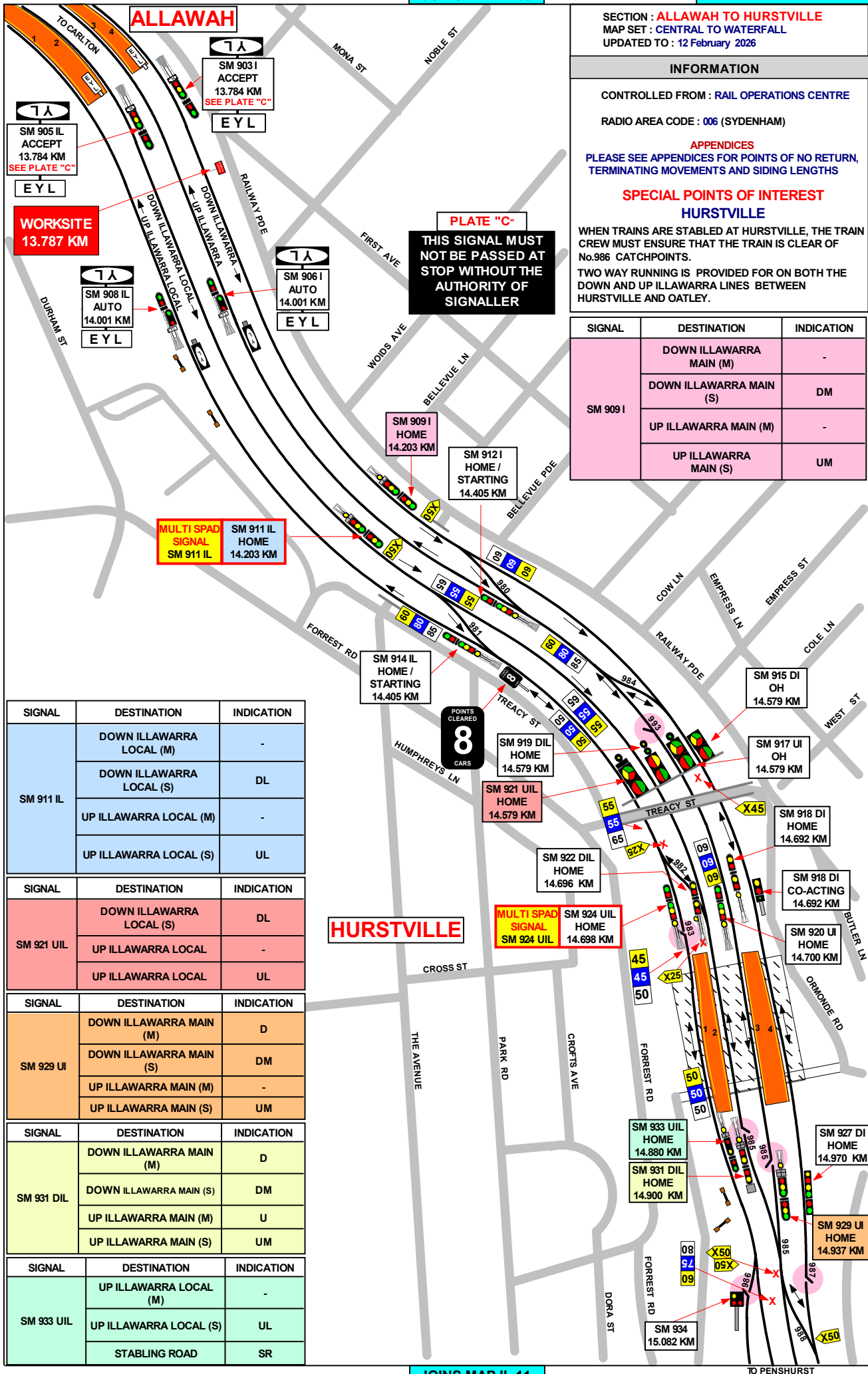
WORKSITE
 10.152 KM

SKS
 SM 842 IL

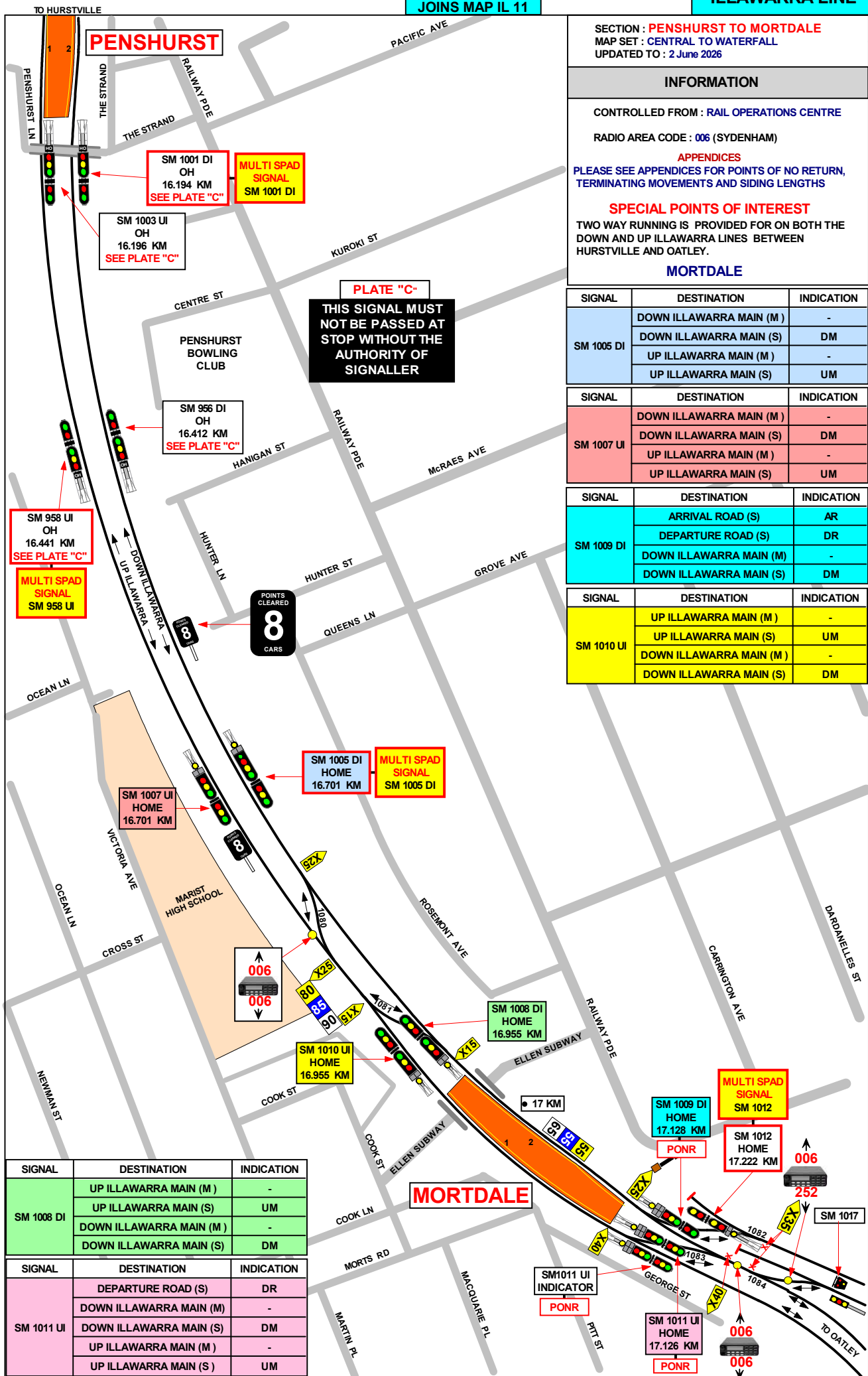
ROCKDALE

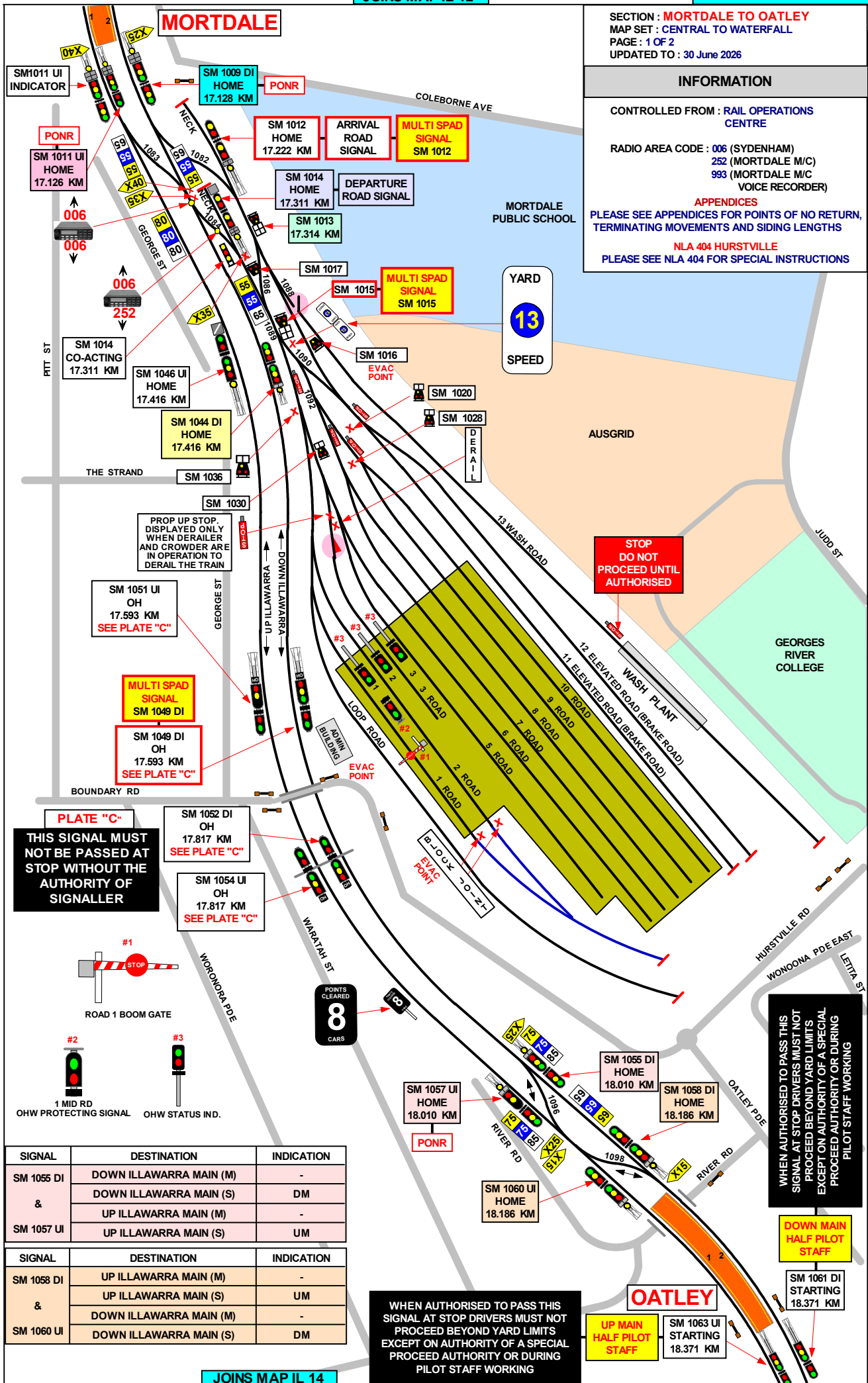












SIGNAL	DESTINATION	INDICATION
SM 1055 DI & SM 1057 UI	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

SIGNAL	DESTINATION	INDICATION
SM 1058 DI & SM 1060 UI	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM

SECTION : **MORTDALE TO OATLEY**
 MAP SET : **BONDI TO WATERFALL**
 PAGE : **2 OF 2**
 UPDATED TO : **6 August 2025**

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **006** (SYDENHAM)
252 (MORTDALE M/ C)
993 (MORTDALE M/C VOICE RECORDER)

APPENDICES

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

NLA 404 HURSTVILLE

PLEASE SEE NLA 404 FOR SPECIAL INSTRUCTIONS

SPECIAL POINTS OF INTEREST

TWO WAY RUNNING IS PROVIDED FOR ON BOTH THE
 DOWN AND UP ILLAWARRA LINES BETWEEN
 HURSTVILLE AND OATLEY.

SIGNAL **SM 1014** IS ON THE WRONG SIDE AND IS FOR THE
 DEPARTURE ROAD.

SIGNAL	DESTINATION	INDICATION
SM 1009 DI	ARRIVAL ROAD (S)	AR
	DEPARTURE ROAD (S)	DR
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SM 1014	UP ILLAWARRA MAIN (M)	U
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (M)	D
	DOWN ILLAWARRA MAIN (S)	DM
	SHUNTING NECK (S)	SN

SIGNAL	DESTINATION	INDICATION
SM 1011 UI	DEPARTURE ROAD (S)	DR
	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	UP ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM

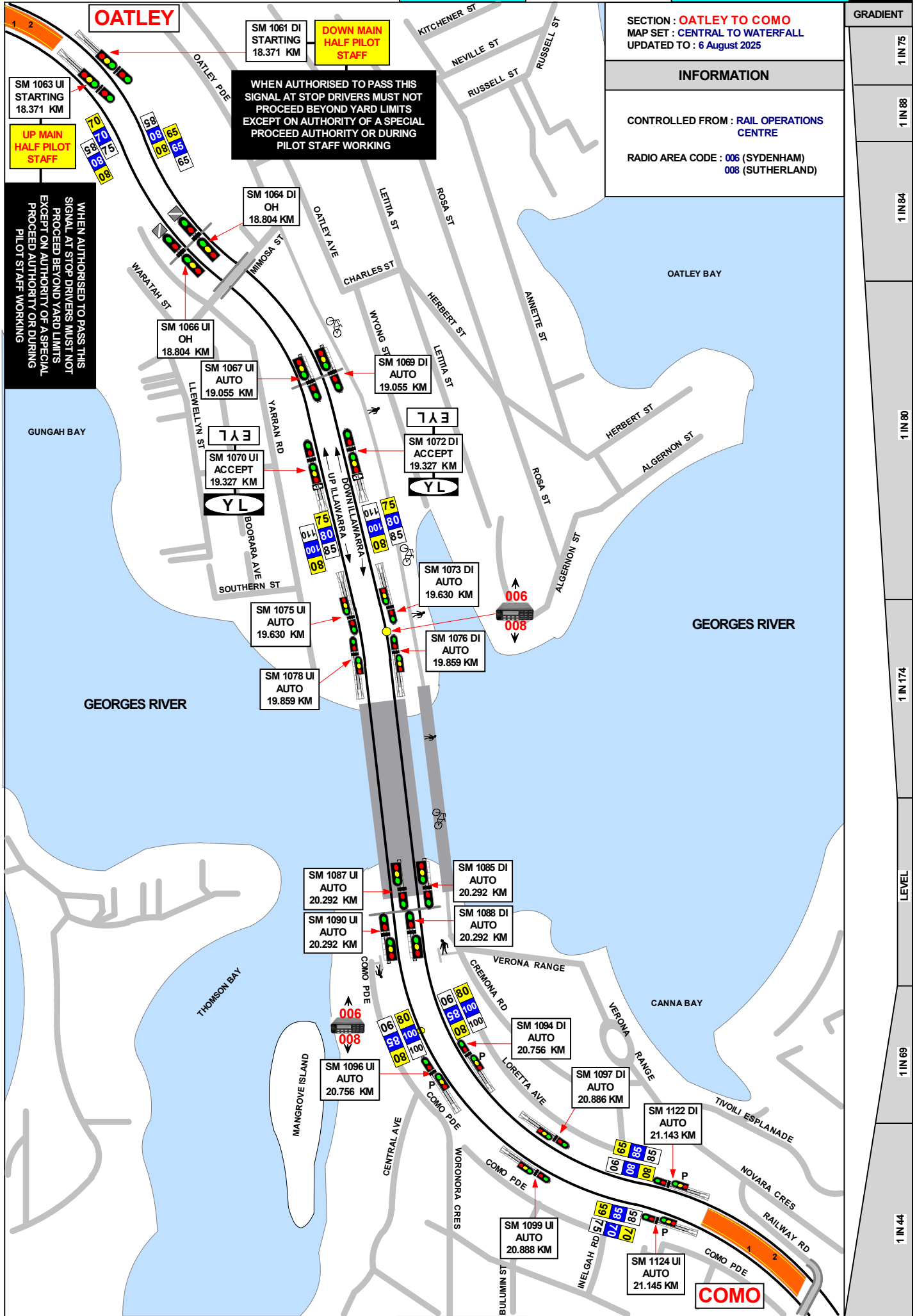
SIGNAL	DESTINATION	INDICATION
SM 1015	ELEVATED ROADS (S)	ER
	9 - 10 INSPECTION ROADS (S)	9I
	7 - 8 INSPECTION ROADS (S)	7I
	1 - 6 INSPECTION ROADS (S)	1I

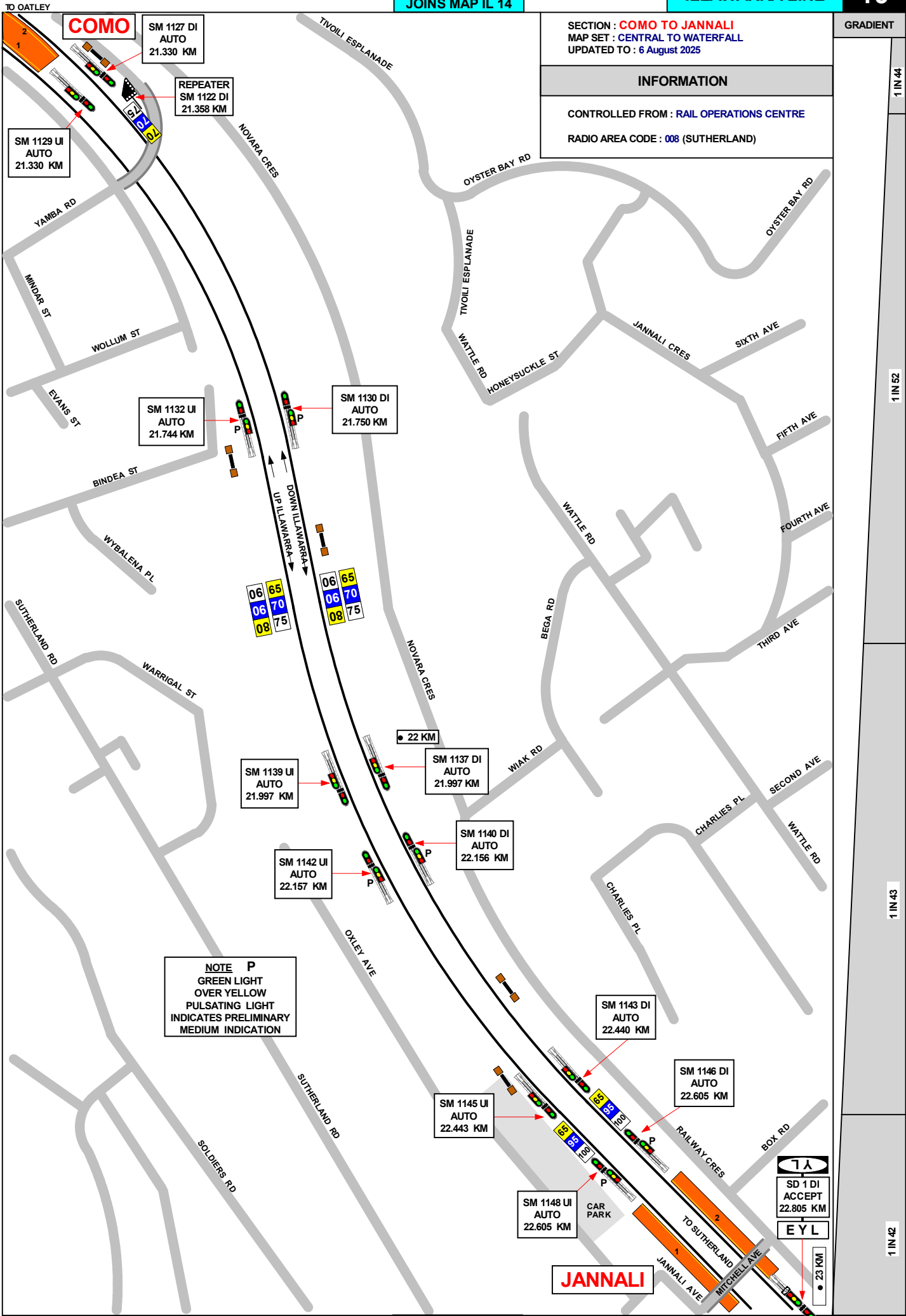
SIGNAL	DESTINATION	INDICATION
SM 1012	DOWN ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (S)	DM
	SHUNTING NECK (S)	SN

SIGNAL	DESTINATION	INDICATION
SM 1044	UP ILLAWARRA MAIN (M)	-
	DOWN ILLAWARRA MAIN (M)	-
	UP ILLAWARRA MAIN (S)	UM
	DOWN ILLAWARRA MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SM 1013	WASH PLANT (S)	WP
	ELEVATED ROADS (S)	ER
	INSPECTION ROAD (S)	IR

SIGNAL	DESTINATION	INDICATION
SM 1020 & SM 1028 & SM 1036 & SM 1030	DEPARTURE ROAD	DR
	ARRIVAL ROAD	AR





JOINS MAP IL 15

SECTION : JANNALI TO SUTHERLAND
MAP SET : CENTRAL TO WATERFALL
UPDATED TO : 7 September 2026

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 008 (SUTHERLAND)

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

SPECIAL POINTS OF INTEREST
SUTHERLAND

P
INDICATES GREEN
LIGHT OVER
PULSATING YELLOW
LIGHT INDICATES
PRELIMINARY MEDIUM
INDICATION

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

WHEN ILLUMINATED
TURNING OUT
THROUGH 150 POINTS

WHEN ILLUMINATED
TURNING OUT
THROUGH 152 POINTS

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

UP MAIN
HALF PILOT
STAFF

DOWN MAIN
HALF PILOT
STAFF

SIGNAL	DESTINATION	INDICATION
SD 17 DI	BACK PLATFORM (M)	--
	BACK PLATFORM (S)	BP
	DOWN MAIN (M)	--
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SD 19 UI	BACK PLATFORM (M)	B
	BACK PLATFORM (S)	BP
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM
	UP MAIN (M)	--
SD 22 BP	UP MAIN (M)	U
	UP MAIN (S)	UM
SD 24 DI	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SD 22 BP	UP MAIN (M)	U
	UP MAIN (S)	UM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM

SIGNAL	DESTINATION	INDICATION
SD 24 DI	UP MAIN (M)	U
	UP MAIN (S)	UM
	DOWN MAIN (M)	D
	DOWN MAIN (S)	DM

JOINS MAP IL 17

SUTHERLAND

GRADIENT

1 IN 42

1 IN 40

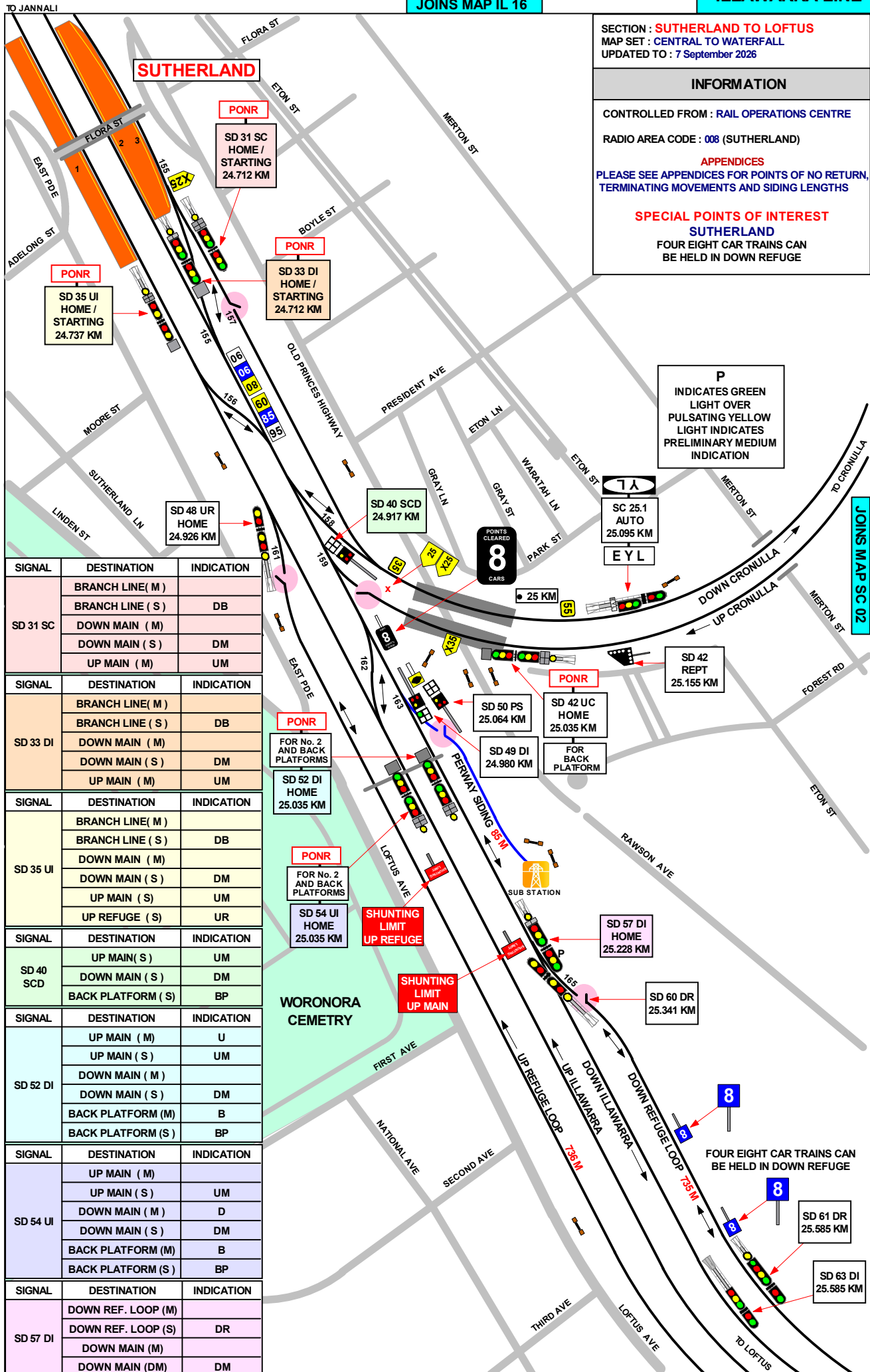
1 IN 43

1 IN 44

1 IN 42

1 IN 44

1 IN 660



SECTION : **SUTHERLAND TO LOFTUS**
MAP SET : **CENTRAL TO WATERFALL**
UPDATED TO : 7 September 2026

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **008 (SUTHERLAND)**

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

SPECIAL POINTS OF INTEREST
SUTHERLAND
FOUR EIGHT CAR TRAINS CAN
BE HELD IN DOWN REFUGE

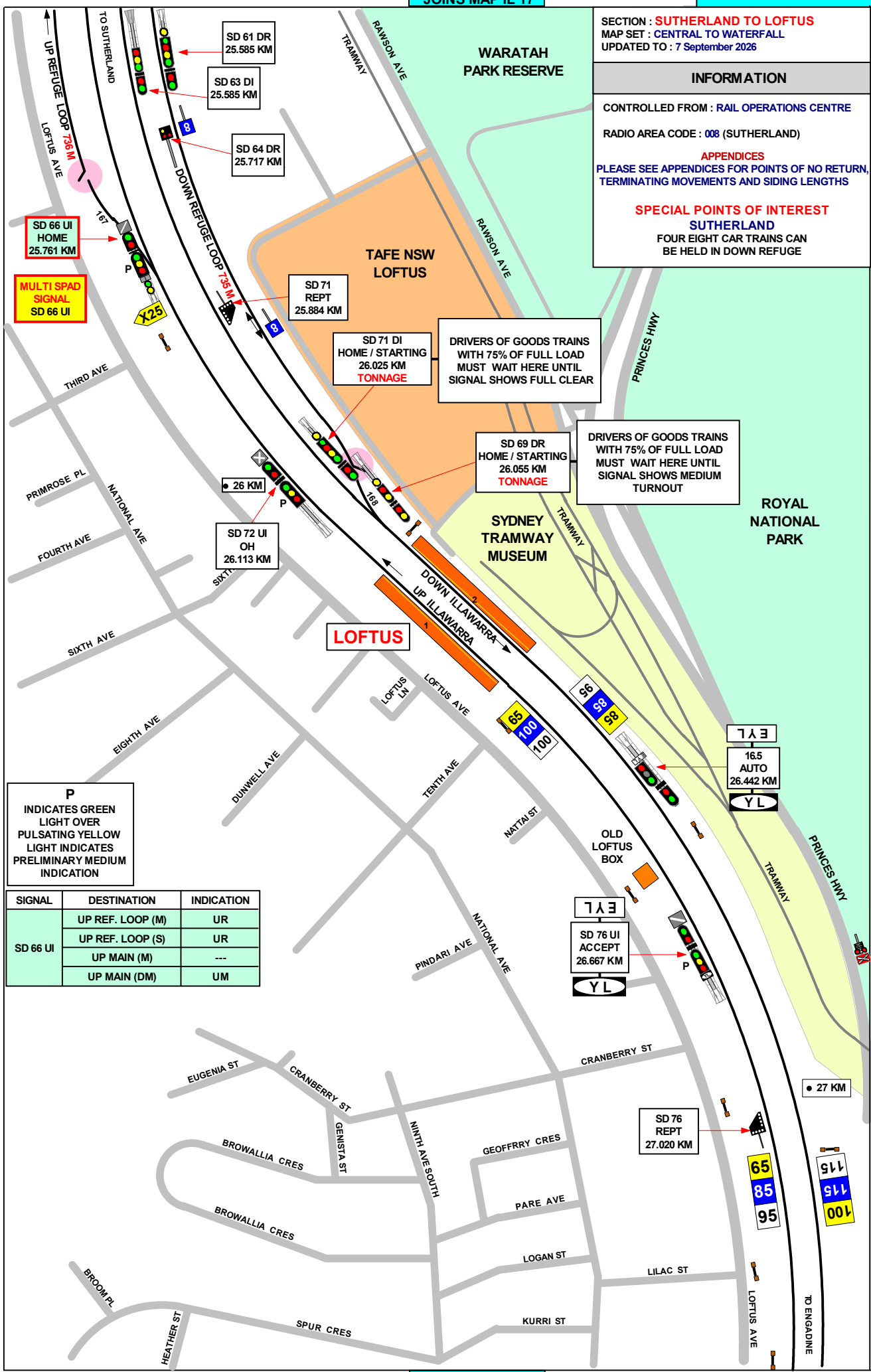
GRADIENT

LEVEL

1 IN 148

1 IN 40

1 IN 103



SECTION : **LOFTUS TO ENGADINE**
 MAP SET : **CENTRAL TO WATERFALL**
 UPDATED TO : 6 August 2025

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **008** (SUTHERLAND)

GRADIENT

1 IN 103

1 IN 97

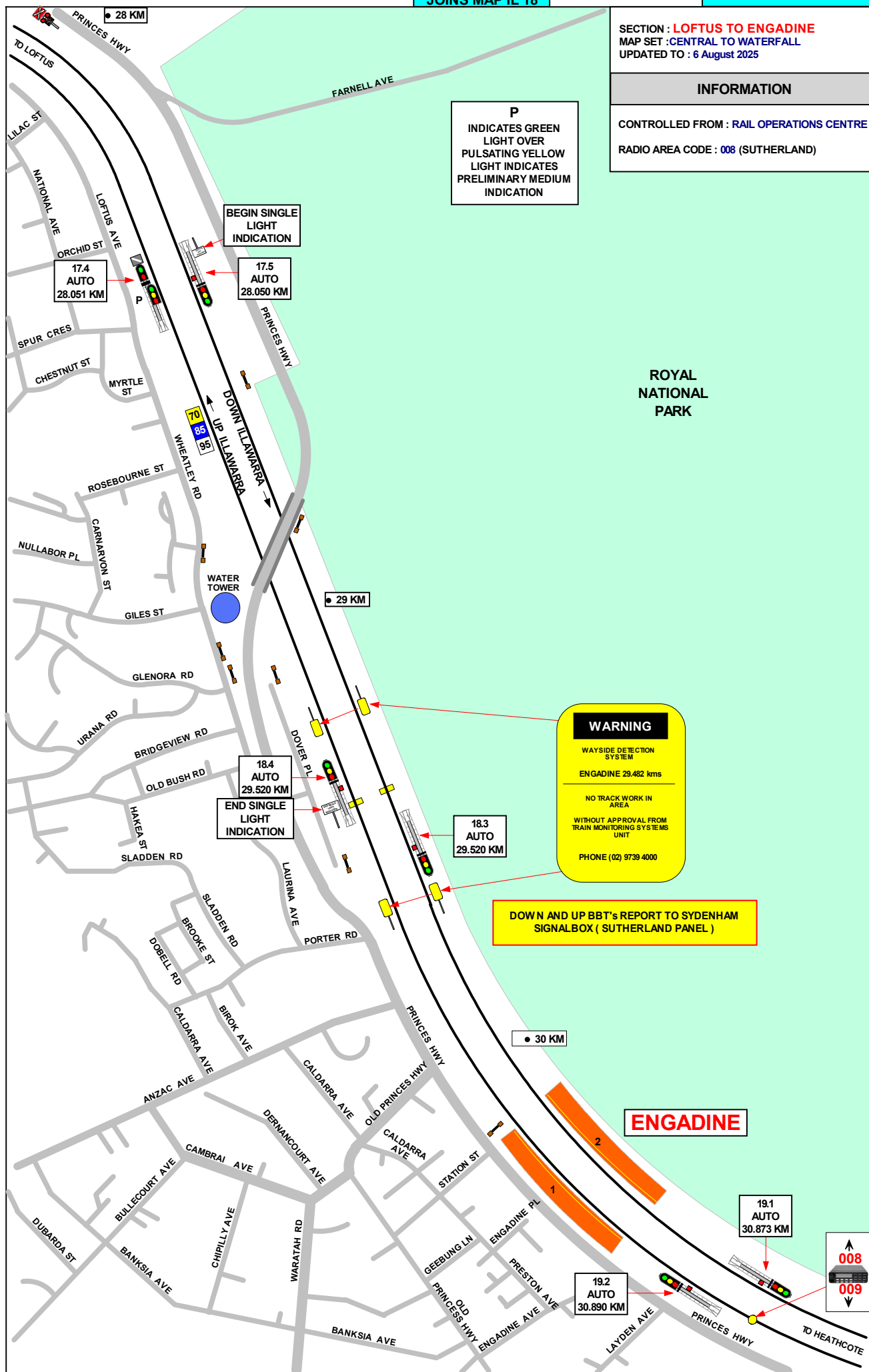
1 IN 50

1 IN 300

1 IN 127

1 IN 50

1 IN 227



ENGADINE

19.2
AUTO
30.890 KM

19.1
AUTO
30.873 KM

31 KM

ROYAL
NATIONAL
PARK

SECTION : **ENGADINE TO HEATHCOTE**
MAP SET : **CENTRAL TO WATERFALL**
UPDATED TO : 6 August 2025

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**

RADIO AREA CODE : **008** (SUTHERLAND)
009 (WATERFALL)

GRADIENT

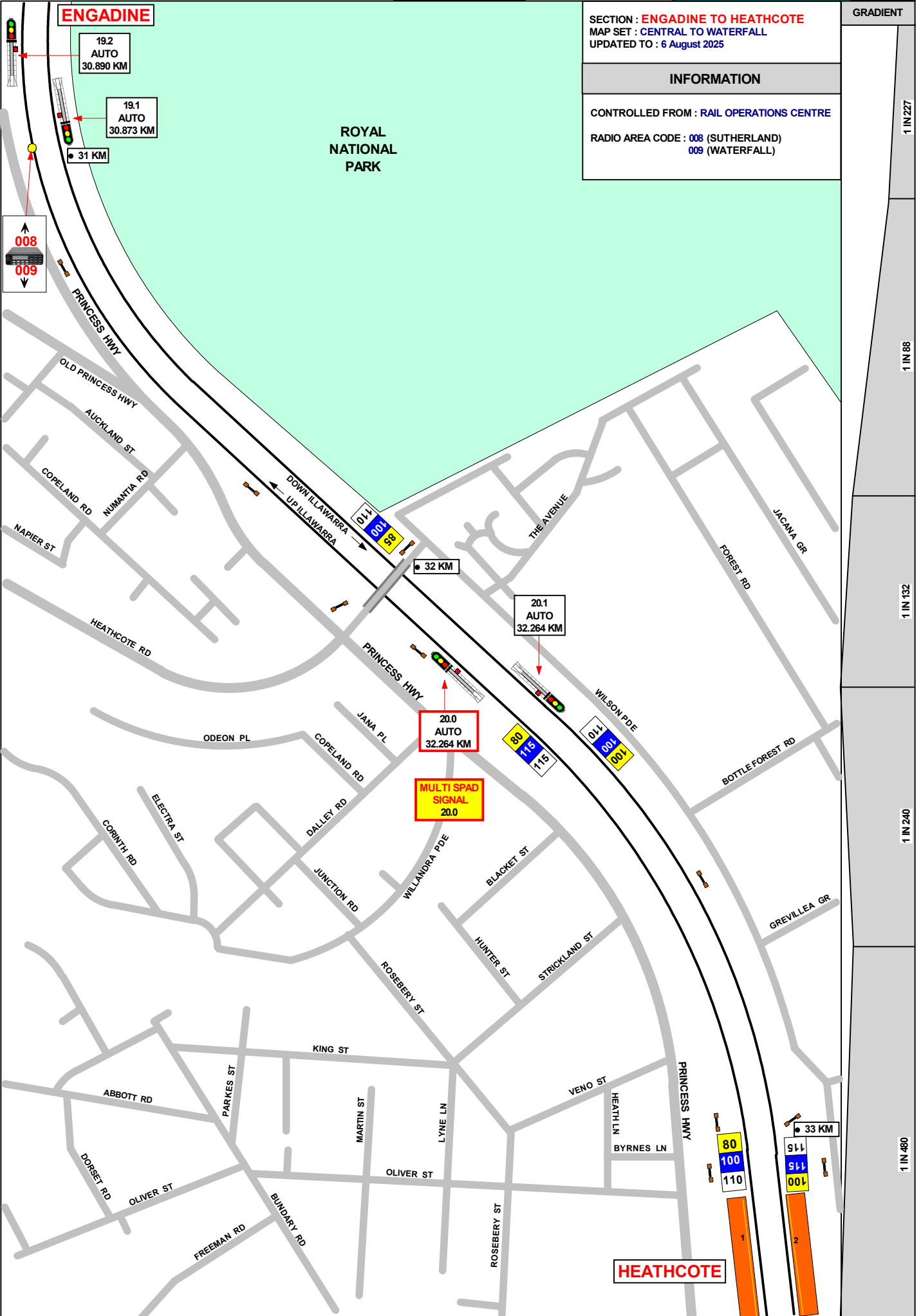
1 IN 227

1 IN 88

1 IN 132

1 IN 240

1 IN 480



SECTION : **HEATHCOTE TO WATERFALL**
 MAP SET : **CENTRAL TO WATERFALL**
 UPDATED TO : **6 August 2025**

INFORMATION

CONTROLLED FROM : **RAIL OPERATIONS CENTRE**
 RADIO AREA CODE : **009 (WATERFALL)**

GRADIENT

1 IN 480

1 IN 100

1 IN 76

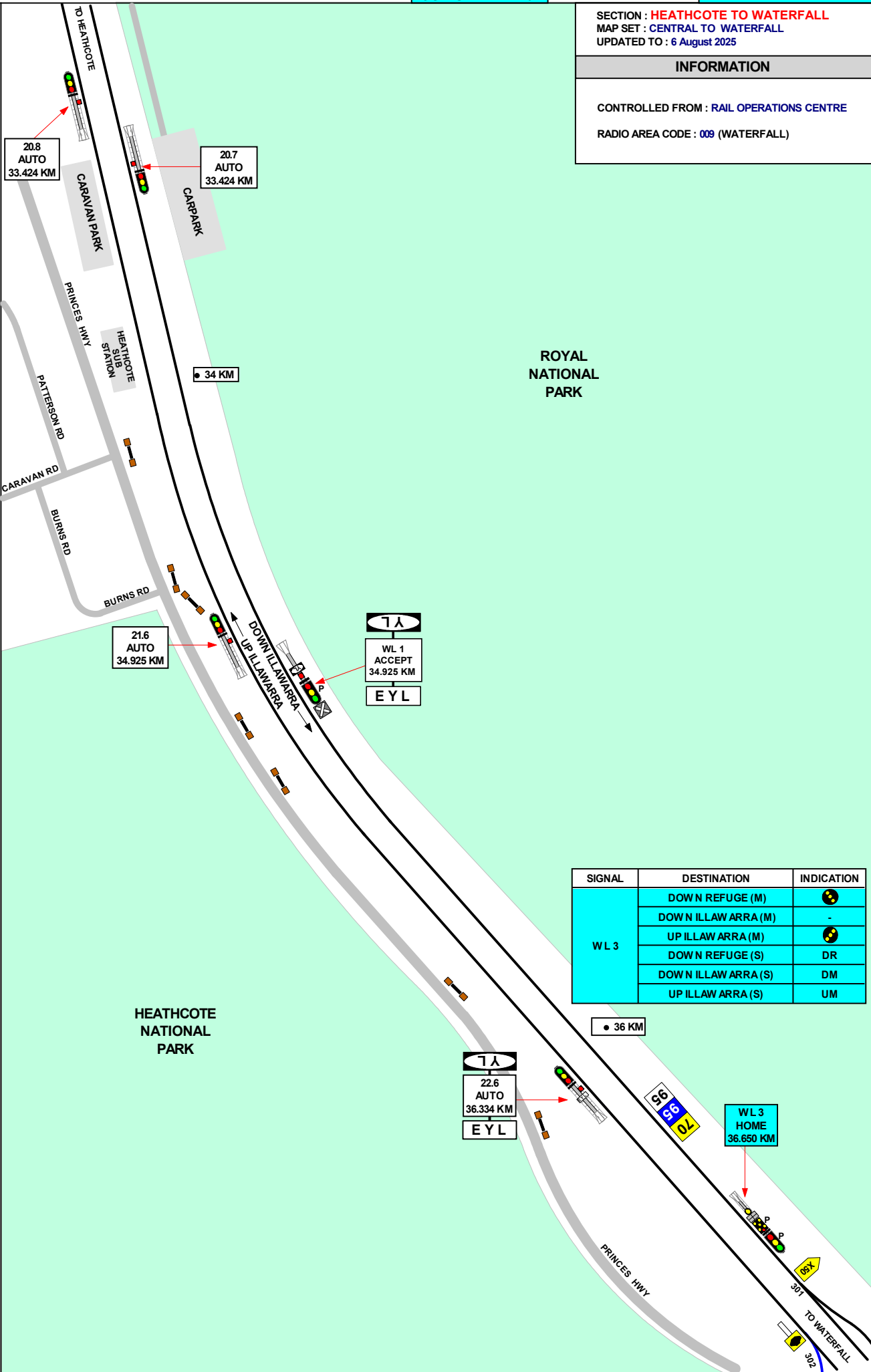
LEVEL

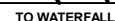
1 IN 90

ROYAL NATIONAL PARK

HEATHCOTE NATIONAL PARK

SIGNAL	DESTINATION	INDICATION
WL 3	DOWN REFUGE (M)	
	DOWN ILLAWARRA (M)	-
	UP ILLAWARRA (M)	
	DOWN REFUGE (S)	DR
	DOWN ILLAWARRA (S)	DM
	UP ILLAWARRA (S)	UM





SECTION : **HEATHCOTE TO WATERFALL**
 MAP SET **CENTRAL TO NOWRA**
 PAGE : 1 OF 3
 UPDATED TO : 03 March 2026

GRADIENT

INFORMATION

CONTROLLED FROM : RAIL OPERATIONS CENTRE

RADIO AREA CODE : 009

METHOD OF WORKING : RAIL VEHICLE DETECTION
SYSTEM

APPENDICES

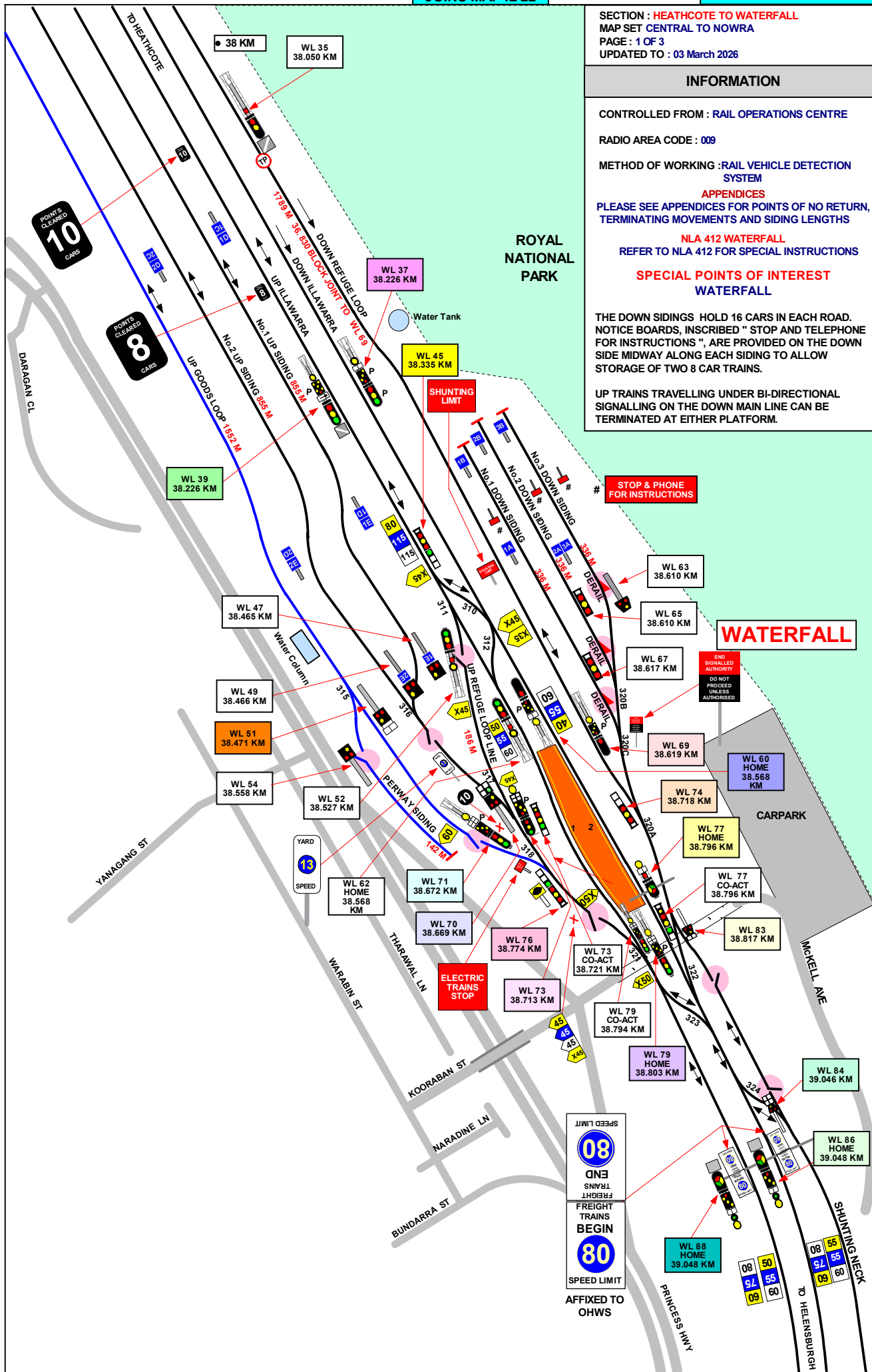
PLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
TERMINATING MOVEMENTS AND SIDING LENGTHS

NLA 412 WATERFALL
REFER TO NLA 412 FOR SPECIAL INSTRUCTIONS

SPECIAL POINTS OF INTEREST
WATERFALL

THE DOWN SIDINGS HOLD 16 CARS IN EACH ROAD.
NOTICE BOARDS, INSCRIBED " STOP AND TELEPHONE
FOR INSTRUCTIONS ", ARE PROVIDED ON THE DOWN
SIDE MIDWAY ALONG EACH SIDING TO ALLOW
STORAGE OF TWO 8 CAR TRAINS.

UP TRAINS TRAVELLING UNDER BI-DIRECTIONAL
SIGNALLING ON THE DOWN MAIN LINE CAN BE
TERMINATED AT EITHER PLATFORM.



WATERFALL

CARPARK

SHUNTING NECK

JOINS MAP IL 24

SECTION : **HEATHCOTE TO WATERFALL**MAP SET : **CENTRAL TO WATERFALL**

PAGE : 3 OF 3

UPDATED TO : 16 September 2025

APPENDICESPLEASE SEE APPENDICES FOR POINTS OF NO RETURN,
TERMINATING MOVEMENTS AND SIDING LENGTHS**NLA 412 WATERFALL**

REFER TO NLA 412 FOR SPECIAL INSTRUCTIONS

SIGNAL	DESTINATION	INDICATION
W L 37	DOWN ILLAWARRA MAIN (M)	
	UP ILLAWARRA (M)	
	DOWN ILLAWARRA (S)	DM
	UP ILLAWARRA (S)	UM

SIGNAL	DESTINATION	INDICATION
W L 39	DOWN ILLAWARRA (M)	
	UP ILLAWARRA (M)	
	UP REFUGE (M)	
	UP ILLAWARRA (S)	

SIGNAL	DESTINATION	INDICATION
W L 45	DOWN ILLAWARRA (S)	DM
	UP MAIN (S)	UM
		- GREEN LIGHT
	UP REFUGE (S)	UR

SIGNAL	DESTINATION	INDICATION
W L 51	UP GOODS (S)	UG
	PERWAY SIDING (S)	PS

SIGNAL	DESTINATION	INDICATION
W L 60	UP ILLAWARRA (M)	
	UP ILLAWARRA (S)	UM

SIGNAL	DESTINATION	INDICATION
W L 69	DOWN ILLAWARRA (M)	
	DOWN REFUGE (S)	

SIGNAL	DESTINATION	INDICATION
W L 70	No.2 UP SIDING (S)	S2
	No.1 UP SIDING (S)	S1
	UP REFUGE (S)	UR
		GREEN LIGHT

SIGNAL	DESTINATION	INDICATION
W L 71	DOWN ILLAWARRA (M)	
	UP ILLAWARRA (M)	
	SHUNTING NECK (S)	S
	DOWN ILLAWARRA (S)	DM
	UP ILLAWARRA (S)	UM

SIGNAL	DESTINATION	INDICATION
W L 73	DOWN ILLAWARRA (M)	
	UP ILLAWARRA (M)	
	SHUNTING NECK (S)	S
	DOWN ILLAWARRA (S)	DM
	UP ILLAWARRA (S)	UM

SIGNAL	DESTINATION	INDICATION
W L 74	DOWN REFUGE (S)	DR
	DOWN SIDING (S)	DS

SIGNAL	DESTINATION	INDICATION
W L 76	UP GOODS	UG
	UP REFUGE (S)	UR
		GREEN LIGHT

SIGNAL	DESTINATION	INDICATION
W L 77	DOWN ILLAWARRA (M)	-
	SHUNTING NECK (S)	S
	DOWN ILLAWARRA (S)	DM

SIGNAL	DESTINATION	INDICATION
W L 79	DOWN ILLAWARRA (M)	
	UP ILLAWARRA (M)	
	SHUNTING NECK (S)	S
	DOWN ILLAWARRA (S)	DM
	UP ILLAWARRA (S)	UM

SIGNAL	DESTINATION	INDICATION
W L 83	SHUNTING NECK (S)	S
	DOWN ILLAWARRA (S)	DM

SIGNAL	DESTINATION	INDICATION
W L 84	UP REFUGE (S)	UR
	UP ILLAWARRA (S)	UM
	DOWN ILLAWARRA (S)	DM
	DOWN REFUGE (S)	DR

SIGNAL	DESTINATION	INDICATION
W L 86	UP GOODS LOOP (M)	+ G
	UP REFUGE (M) LSp	UR
	UP REFUGE (M)	+ R
	UP ILLAWARRA (M)	+ U
	DOWN ILLAWARRA (M)	-
	UP REFUGE (S)	UR
	UP ILLAWARRA (S)	UM
	DOWN ILLAWARRA (S)	DM
	DOWN REFUGE (S)	DR

SIGNAL	DESTINATION	INDICATION
W L 88	UP GOODS LOOP (M)	+ G
	UP REFUGE (M) LSp	UR
	UP REFUGE (M)	+ R
	UP ILLAWARRA (M)	-
	UP REFUGE (S)	UR
	UP ILLAWARRA (S)	UM