

D45 Port Botany - Macarthur

RAS DIRN Section Page

Applicability

ARTC Network Wide

SMS

Publication Requirement

Internal / External

Primary Source

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Amendments to the RAS are published at the following link

<https://www.artc.com.au/customers/standards/route/access/>

All changes in this document are highlighted with this colour

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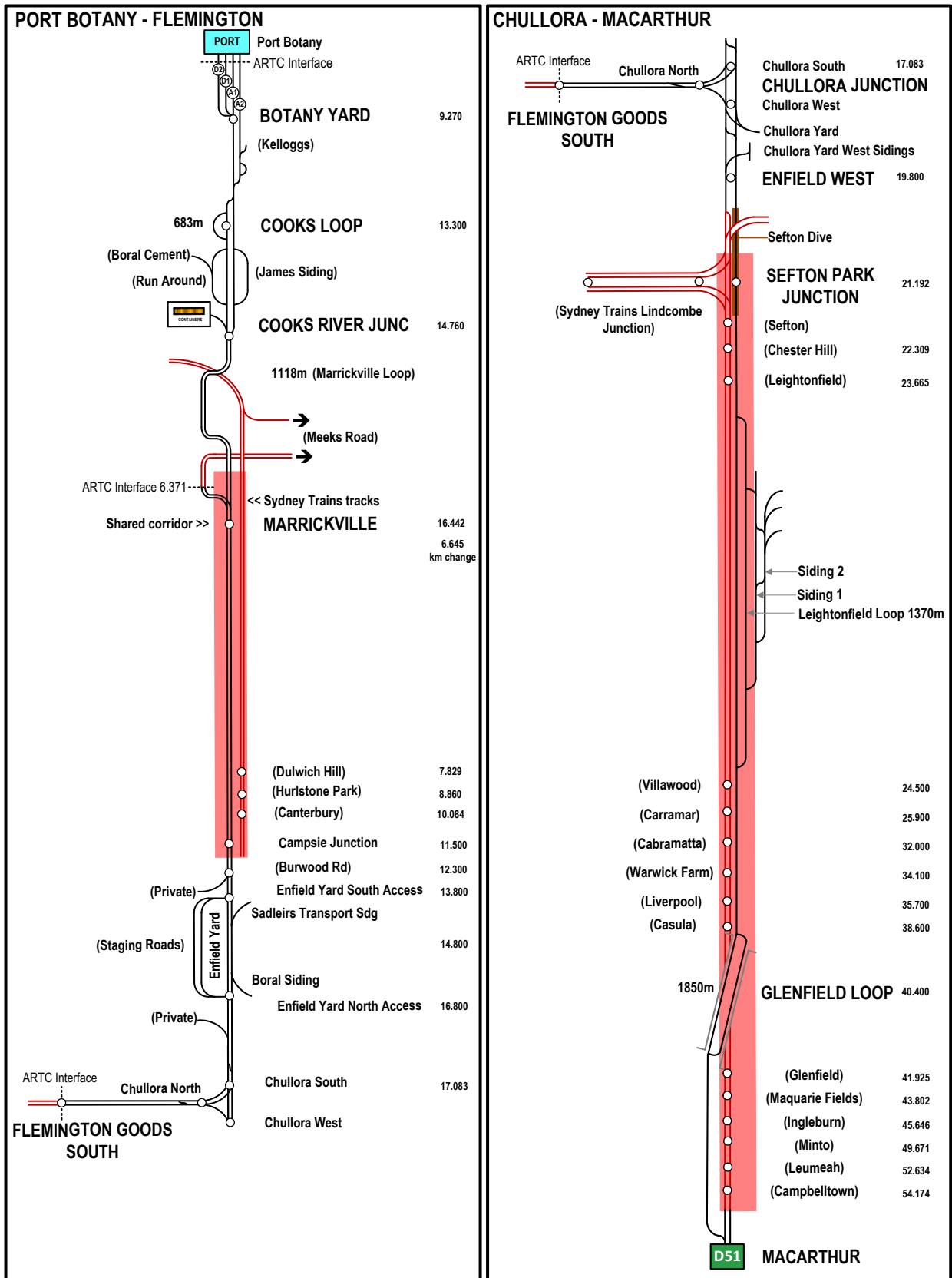
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1 Network Diagram

NB: These line maps are indicative only.



2 Route Capacity

PORT BOTANY – COOKS RIVER			
TRAIN TYPE	MAXIMUM SPEED	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT	(KM/H)	LOCOS	WAGONS
	50	22.8	23
	40	22.8	25
PASSENGER	(KM/H)	LOCOS	CARRIAGES
XPT/RAILCAR	50	N/A	N/A
DIESEL HAUL	20	22.8	19

Note: Route capacity applies where vehicle characteristics and conditions permit.

COOKS RIVER – MARRICKVILLE			
TRAIN TYPE	MAXIMUM SPEED	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT	(KM/H)	LOCOS	WAGONS
	50	22.8	23
	40	22.8	25
PASSENGER	(KM/H)	LOCOS	CARRIAGES
XPT/RAILCAR	50	N/A	N/A
DIESEL HAUL	20	22.8	19

Note: Route capacity applies where vehicle characteristics and conditions permit.

MARRICKVILLE – FLEMINGTON SOUTH			
TRAIN TYPE	MAXIMUM SPEED	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT	(KM/H)	LOCOS	WAGONS
	70	22.8	25.0
PASSENGER	(KM/H)	LOCOS	CARRIAGES
XPT	70	N/A	N/A

Note: Route capacity applies where vehicle characteristics and conditions permit.

CHULLORA NORTH JUNCTION - CHULLORA WEST JUNCTION (NORTH FORK TRIANGLE)			
TRAIN TYPE	MAXIMUM SPEED	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT	(KM/H)	LOCOS	WAGONS
	35	22.8	25.0
PASSENGER	(KM/H)	LOCOS	CARRIAGES
XPT	35	N/A	N/A
XPLORER	35	N/A	N/A
DIESEL HAUL	35	22.3	19

Note: Route capacity applies where vehicle characteristics and conditions permit.

CHULLORA SOUTH JUNCTION– SEFTON PARK SOUTH JUNCTION (KM CHANGE)			
TRAIN TYPE	MAXIMUM SPEED	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT	(KM/H)	LOCOS	WAGONS
	70	22.8	25.0
PASSENGER	(KM/H)	LOCOS	CARRIAGES
XPT	70	N/A	N/A
XPLORER	70	N/A	N/A
DIESEL HAUL	70	22.3	19

Note: Route capacity applies where vehicle characteristics and conditions permit.

SEFTON PARK SOUTH JUNCTION (KM CHANGE) – MACARTHUR			
TRAIN TYPE	MAXIMUM SPEED	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT	(KM/H)	LOCOS	WAGONS
	115	22.3	21
	100	22.8	23
	80	22.8	25
PASSENGER	(KM/H)	LOCOS	CARRIAGES
XPT/ RAILCAR	115	N/A	N/A
DIESEL HAUL	115	19	19

Note: Route capacity applies where vehicle characteristics and conditions permit.

3 Special Access Conditions

3.1 Maximum Length of Trains

AREA	MAXIMUM TRAIN LENGTH (M)
PORT BOTANY TO MACARTHUR	1800 MAX/AS PER ALLOCATED TRAIN PATH.

4 Permanent Speed Restrictions

PORT BOTANY – MARRICKVILLE					
LOCATION	KILOMETRAGE	DOWN TRACK		UP TRACK	
		NORMAL	PASSENGER	NORMAL	PASSENGER
173B POINTS	6.658	X30	-	-	-
173A POINTS	6.709	-	-	X30	-
172 POINTS	6.749	-	-	X30	-
171B POINTS	6.758	X30	-	-	-
170B POINTS	6.792	X30	-	-	-
171A POINTS	6.800	-	-	X30	-
170A POINTS	6.866	-	-	X30	-
169 POINTS	7.163	-	-	X30	-
168 POINTS	7.174	-	-	X30	-
166B POINTS	7.195	X15	-	-	-
165B POINTS	7.233	X30	-	-	-
165A POINTS	7.294	-	-	X30	-
164A POINTS	7.410	-	-	X15	-
163 POINTS	7.471	-	-	X30	-
162A-B POINTS	7.858	X15	-	-	-
162A POINTS	7.907	-	-	X15	-
160B POINTS	8.138	X30	-	-	-
160A POINTS	8.204	-	-	X30	-
159B POINTS	8.275	X30	-	-	-
158B POINTS	8.332	X30	-	-	-
159A POINTS	8.353	-	-	X30	-
157A POINTS	8.401	-	-	X30	-

156A POINTS	8.499	-	-	X30	-
	9.941	Start Single Line – Bi directional working			
	10.173	30 Dn Direction			
BOTANY	10.410	-	-	-	-

PORT BOTANY – MARRICKVILLE					
LOCATION	KILOMETRAGE	DOWN TRACK		UP TRACK	
		NORMAL	PASSENGER	NORMAL	PASSENGER
	12.627	X15 Dn Direction			
		30 Up Direction			
	12.649	End Single Line (790A)			
	12.715			X15 Up Direction	
	13.896	50 Dn Direction			
		30 Up Direction			
	13.911			50 Dn Direction	
				30 Up Direction	
	14.120km			30 Up Direction	
(Boral Cement Sidings)	14.140km			End of Signalled Authority	
	14.150km	30 Up Direction			
	14.698			X10 Up Direction	
	14.726			X35 Dn Direction	X35
COOKS RIVER	14.760	-	-		-
	14.845	X35 Up Direction		-	-
		X35 Dn Direction			
	14.923			X35 Up Direction	X35

15.188	50 Up Direction		50 Up Direction	
	45 Dn Direction		45 Dn Direction	
16.016			X35 Dn Direction	
16.128	X35 Up Direction			
16.308	45 Up Direction	-	45 Up Direction	-
	35 Dn Direction		35 Dn Direction	
16.395	-	-	X35 Dn Direction	-

MARRICKVILLE – CHULLORA WEST JUNCTION

LOCATION	KILOMETRAGE	DOWN TRACK		UP TRACK	
		NORMAL	PASSENGER	NORMAL	PASSENGER
MARRICKVILLE JUNC	6.645 (KM CHANGE FROM 16.422)	-	-	-	-
	6.690	-	-	X35 Up Direction	-
	7.034	50 Dn Direction			
	7.270			35 Up Direction	
CAMPSIE	11.697	-	-	-	-
(UP Goods)	13.577			50 Up Direction X25 Dn Direction (to Dn Goods)	
(DN Goods)	13.642	X40 Dn Direction (301A to through road 2) X25 Up Direction (to Up Goods)	-	-	-
(UP Goods)	13.720	-	-	X40 Up Direction (301B from	-

		through road 2 to Dn Goods)			
		X45 (302A Dn Direction)			
ENFIELD SOUTH YARD (see Enfield South Yard to Enfield North Yard)	13.730	-	-	-	-
	13.758	50 Dn Direction			
	13.920	50 Dn Direction			
	16.671	X25 Dn Direction			
	16.760	X25 Up Direction			
ENFIELD NORTH YARD	16.830	-	-	50 Up Direction	-
*(see Enfield South Yard to Enfield North Yard)	16.830	-	-	50 Up Direction X45 Up Direction (340B to staging roads) X40 Dn Direction (through 341B)	-
	16.923	-	-	X40 Up Direction (341B to Up Main)	-
CHULLORA SOUTH JUNC	16.940	50 Up Direction	-	-	-
		70 Dn Direction towards Flemington			
	16.988	X15 Dn Direction (345A to Dn Main & South Fork)			
*to chullora west junc	17.093	X15 Up Direction (345B to Up Main)			
		X35 Dn Direction (Dn South Fork)			
(Up South Fork)	17.142	X35 Up Direction			

(Dn South Fork)	17.153	35 Dn Direction	
(Dn South Fork)	17.430	X35 Dn Direction (353A Points to Boshops Siding Sydney Freight terminal)	
CHULLORA WEST JUNCTION	17.465		X35 Up Direction
(Boshops Sidings Sydney Freight terminal)	17.540	X15	
(Up Goods)	17.540		X35 Dn Direction (354A Points)
(Dn Goods)	17.640	X35 Up Direction (354B Points)	
(Up Goods)	17.780		35 Up Direction
(Dn Goods)	17.780	70 Dn Direction	

CHULLORA WEST JUNCTION - MACARTHUR					
LOCATION	KILOMETRAGE	DOWN TRACK		UP TRACK	
		NORMAL	PASSENGER	NORMAL	PASSENGER
	19.630	60 Dn Direction			
ENFIELD WEST	19.800	-	-	-	-
	19.833	X25 Dn Direction			
		X25 Up Direction			
	19.960			X25 Up Direction	
	20.284	-	-	60 Up Direction	-
	20.300			X60 Dn Direction	-
	20.443	X60 Up Direction		-	-
	20.537	70 Dn Direction		70 Dn Direction	-
	20.565	-	-	60 Up Direction	-

Single Line Bi-Directional Working with increasing chainage					
SEFTON PARK EAST JUNCTION	20.657	-	-	-	-
	21.050	-	-	-	-
SEFTON PARK SOUTH JUNCTION	22.309	-	-	-	-
	22.351	70	-	70	-
KM CHANGE AT	22.434/20.800	-	-	-	-
SEFTON	21.192	-	-	-	-
CHESTER HILL	22.309	-	-	-	-
	22.560	X25	-	80	-
SSFL LEIGHTONFIELD LOOP	22.629	25	-	-	-
SSFL LEIGHTONFIELD LOOP	24.225	-	-	25	-
SSFL GLENFIELD LOOP	24.300	80	-	X25	-
	39.400	X60	-	-	-
	39.415	-	-	80	-
	39.470	60	-	-	-
SSFL GLENFIELD LOOP	40.038	65	-	80	-
	40.180	80	-	65	-
	41.400	-	-	60	-
	41.480	80	-	X60	-
	41.610	115	-	80	-
	49.490	105	-	115	-
UP SOUTH MAIN	53.850	100	-	105	-
MACARTHUR	57.206				
	57.835	X90	-	100	-
	58.090	100	-	X90	-
UP SOUTH MAIN	58.100	X90	-	-	-
DOWN SOUTH MAIN	58.225	95	-	X90	-

*** FLEMINGTON SOUTH JUNCTION - CHULLORA SOUTH JUNCTION**

LOCATION	KILOMETRAGE	DOWN TRACK		UP TRACK	
		NORMAL	PASSENGER	NORMAL	PASSENGER

FLEMINGTON SOUTH JUNC	18.909	-	-	-	-
CHULLORA NORTH JUNCTION (*See Chullora North Junction to Chullora West Junction Section)	17.600	X35 Up Direction towards Enfield West			
	17.459	X25 Dn Direction			
	17.142	70 Dn Direction			
CHULLORA SOUTH JUNCTION	17.093	X35 Dn Direction			
		X15 Up Direction			

* CHULLORA NORTH JUNCTION - CHULLORA WEST JUNCTION					
LOCATION	KILOMETRAGE	DOWN TRACK		UP TRACK	
		NORMAL	PASSENGER	NORMAL	PASSENGER
CHULLORA NORTH JUNCTION	17.600	X35 (towards Enfield West)	-	-	-
NORTH FORK (Single Track)	17.480	35 (towards Enfield West)			
		X35 (towards Flemington)			
NORTH FORK (Single Track)	17.320	X35 (towards Enfield West)			
	17.270 (KM Change)	35 (towards Flemington)			
CHULLORA WEST JUNCTION	17.465			X35 (Up Direction)	

* ENFIELD SOUTH YARD – ENFIELD NORTH YARD					
LOCATION	KILOMETRAGE	DOWN TRACK		UP TRACK	
		NORMAL	PASSENGER	NORMAL	PASSENGER
*ENFIELD SOUTH YARD (up goods)	13.730	-		X45 (302A DN Direction)	-

(through road No 2)	13.800	45		X45 (302B)	
(through road No 2)	14.040	X15 (intermodal)			
(through road No 2)	14.151	X15	-	-	-
		X45 (306A to staging road 1)			
(staging road No 1)	14.295	45		X45 (through to road 2)	
(staging road 1)	14.620	X45 (380 to staging road 2)	-	-	-
(staging road 2)	14.695	45	-	X45 (380 to staging road)	-
(staging road 2)	15.451	X45 (383A to staging road 1)			
(staging road 1)	15.535	X45 (383B to staging road 2)			
(staging road 1)	15.551			X45 (384A to staging road 2)	
(staging road 2)	15.633			X45 (384B to staging road 1)	
	16.380				
(staging road 2)	16.410	X45 (387 to staging road 1)	-	45	-
(staging road 1)	16.450			X45 (387 to staging road 2)	
(staging road)	16.660			45	
(staging road)	16.665	X45 (340A)	-	-	-
ENFIELD NORTH YARD (main line)	16.800	70		-	-
*ENFIELD NORTH YARD (main line)	16.830	-	-	X45 (340B to staging roads)	-