

# D15 Broken Hill – Crystal Brook

## RAS DIRN Section Page

**Applicability**

---

ARTC Network Wide

---

SMS

---

**Publication Requirement**

---

Internal / External

---

**Primary Source**

---



---

**Document Status**

Version #	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
2.1	2 Jun 23	Operations Standards	Stakeholders	Operations Standards Manager	Head of Operations Standards 19/06/2023

**Amendment Record**

---

**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

---

**Disclaimer**

This document has been prepared by ARTC for internal use and may not be relied on by any other party without ARTC's prior written consent. Use of this document shall be subject to the terms of the relevant contract with ARTC.

ARTC and its employees shall have no liability to unauthorised users of the information for any loss, damage, cost or expense incurred or arising by reason of an unauthorised user using or relying upon the information in this document, whether caused by error, negligence, omission or misrepresentation in this document.

**This document is uncontrolled when printed.**

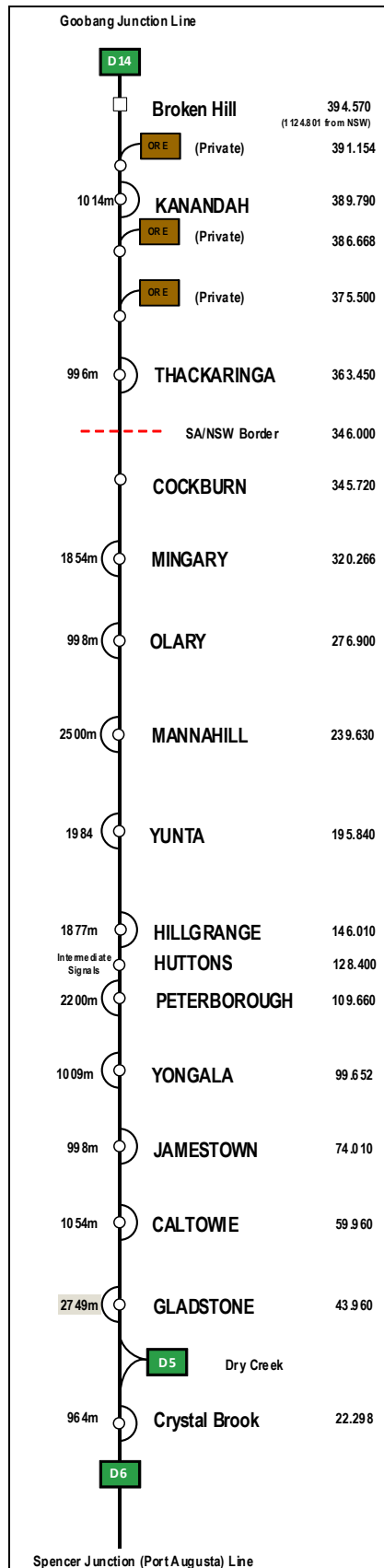
Authorised users of this document should visit ARTC's intranet or extranet ([www.artc.com.au](http://www.artc.com.au)) to access the latest version of this document.

## Table of Contents

Table of Contents .....	2
1 Network Diagram .....	3
2 Route Capacity .....	4
3 Permanent Speed Restrictions .....	5
4 Special Speed Restrictions .....	6
5 Significant Kilometre Markings.....	6

# 1 Network Diagram

Note: These line maps are indicative only. For detailed diagrams, refer to relevant Network Information Book.



## 2 Route Capacity

BROKEN HILL – PETERBOROUGH			
TRAIN TYPE	MAXIMUM SPEED (KM/H)	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT		LOCOS	WAGONS
	115	22.8*	21
	100#	22.8*	23
	80	22.8*	25
PASSENGER		LOCOS	CARRIAGES
LOCO HAULED	115	22.8*	19

PETERBOROUGH – CRYSTAL BROOK			
TRAIN TYPE	MAXIMUM SPEED (KM/H)	MAXIMUM AXLE LOAD (TONNES)	
FREIGHT		LOCOS	WAGONS
	110	22.8*	20
	110 (LX SIGHTING DISTANCE)	22.8*	21
	100#	22.8*	23
	80	22.8*	25
PASSENGER		LOCOS	CARRIAGES
LOCO HAULED	110	22.8*	19
(Includes non-express DMU and rail motors)			

**General Notes:**

- Route capacity applies where vehicle characteristics and conditions permit.

**Referenced Notes:**

\* 134t maximum locomotive weight. These posted axle loads are to account for the variability in axle loads for some classes of locomotive. The maximum locomotive weight must still be adhered to.

# Only for rolling stock approved to operate at 100km/h loaded above 21TAL.

### 3 Permanent Speed Restrictions

CRYSTAL BROOK – BROKEN HILL			
LOCATION	KILOMETRAGE	DOWN	UP
CRYSTAL BROOK (22.600 KM)	20.591	90	
	22.587	90	90
	27.157	100	90
GLADSTONE (43.900 KM)	41.947	40	100
	43.996	100	
	44.491		40
	45.598	115	100
CALTOWIE (60.000 KM)	57.857	90	115
	60.200		90
	60.300	80	
	60.662	90	80
	61.627	110	90
	64.577	115	110
JAMESTOWN (73.500 KM)	70.893	80	115
	74.618	115	80
	107.315	100	115
PETERBOROUGH (109.500 KM)	108.080	65	100
	111.000	100	
	111.411		65
	115.897	90	
	116.479		100
	118.365	115	90
YUNTA (195.850 KM)	195.837	100	115
	198.001	115	100
MANNAHILL (239.600 KM)	238.241	100	115
	239.953	115	100
	390.500	80	115
	392.280	40	
	392.280/1126.640	<i>Change of chainage / direction.</i>	
BROKEN HILL (1124.801 KM)	1126.640		80
	1126.050	X25	
	1125.909		X25
	1123.981		40

*Note: Speeds presented in grey text are not formally part of this section page and are provided for information only. They are addressed in the adjoining section pages in detail.*

*Track direction changes from DN to UP at km adjustment. Speeds are presented sequentially between Crystal Brook and Broken Hill.*

## 4 Special Speed Restrictions

SPECIAL SPEED RESTRICTIONS			
LOCATION	KILOMETRAGE	PERMANENT SPEED	NOTE
CALTOWIE LOOP	60.540	25 (UP MOVEMENT) 30 (DN MOVEMENT)	POINTS NO. 13
JAMESTOWN LOOP	74.600	30	POINTS NO. 14
YOLANGA LOOP	100.200	30	POINTS NO. 13
YUNTA LOOP	196.480	30	POINTS NO. 14
BROKEN HILL	1126.050	25	

## 5 Significant Kilometre Markings

The following locations on the network have kilometre posts that change on the ground and do not follow the measured distance between kilometre posts:

Coonamia to Broken Hill;

- Coonamia 0 km increasing to 56 Signal (Broken Hill).