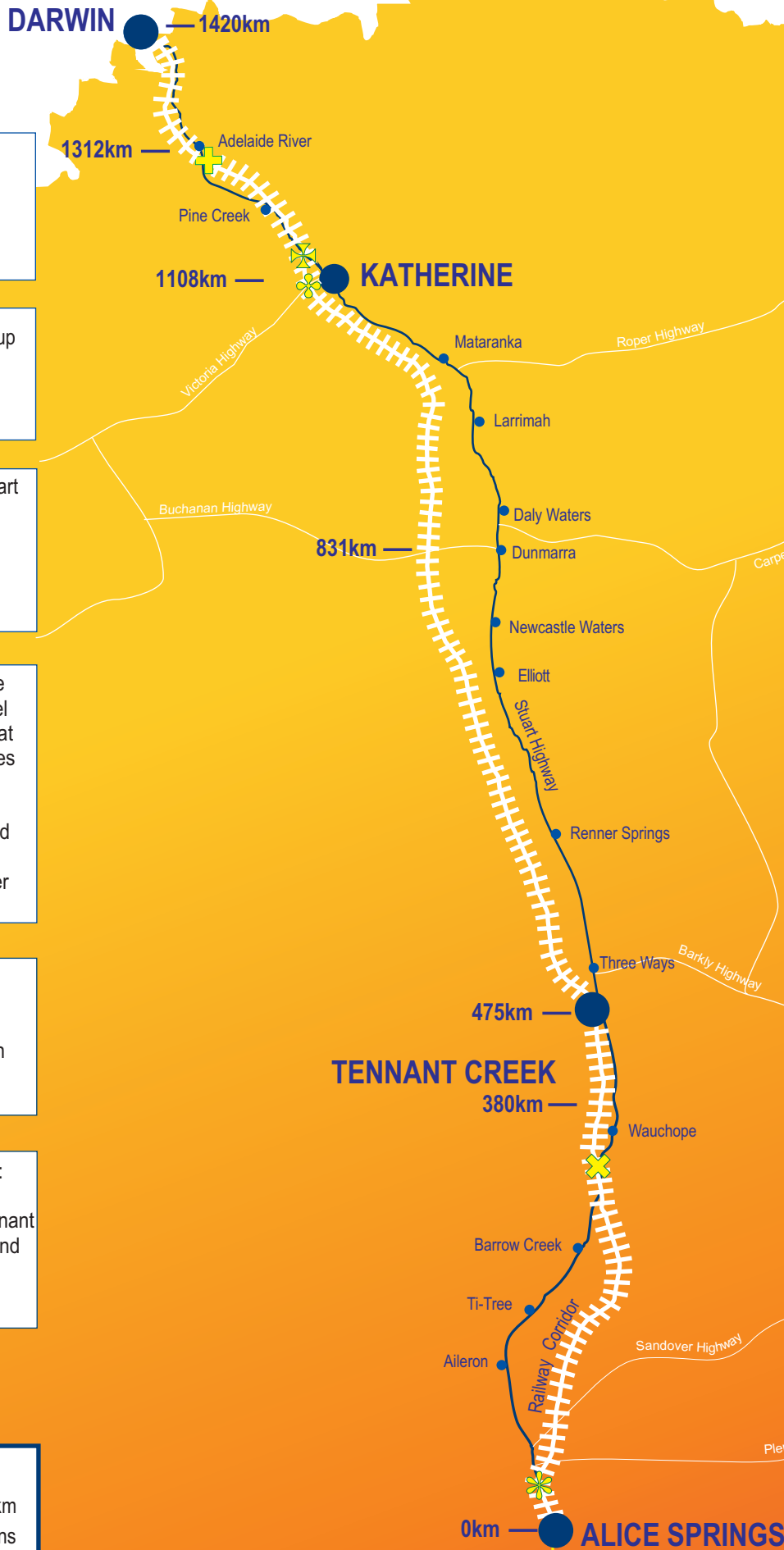


# AustralAsia Railway Construction



A total of approximately 15 million cubic metres of Earthworks were required.



Temporary camps were set up at 100km intervals along the corridor.



The railway crosses the Stuart Highway 4 times and the Victoria Highway once, utilising Grade Separated Crossings. (See locations below)



The majority of culverts are corrugated galvanized steel pipes. These are installed at approx. 1500 individual sites along the alignment. Reinforced concrete box culverts have been installed in marine environments. Total cast of culverts is over A\$62 million.



Ballast was produced at quarries in Katherine (1.285 million tonnes) and Tennant Creek (1.55 million tonnes).



There are 4 Passing Loops: located at Illoquara (225km north of Alice Springs), Tennant Creek, Newcastle Waters and Katherine

146,000 tonnes of rail was transported in 27.5m lengths. The rail was transported by train to Alice Springs and then by specially configured road trains to plants at Tennant Creek and Katherine for Flash Butt welding, producing Longwelded rail (LWR) of 357m lengths.



There are a total of 90 Bridges, along the railway, of which 77 are referred to as Minor Bridges. Minor Bridges are all of standard design, with the number of spans the only difference between each bridge location.



Sleepers were manufactured in Austrak depots. Total required in Katherine (883,000) and Tennant Creek (1,111,000).



There were 2 tracklaying crews, Tracklaying North and Tracklaying South. Each crew laid approx. 3000 sleepers and 2.1km of rail each day.



LWR sections were welded together in place using the Aluminothermic Process. When complete there will essentially be a continuous line between Alice Springs and Darwin.



Longwelded rail were stockpiled at depots in Katherine and Tennant Creek in preparation for tracklaying.



## VITAL STATISTICS

Clearing and Embankment	1420km
Culverts	1500 locations
Sleeper fastenings	8 million
Bridges	90
Tracklaying	1420km
Rail Delivery	146,000 tonnes
Flash Butt Welds	110,000
Sleepers	2 million
Ballast	2.835 million tonnes

## LOCATION OF GRADE SEPARATED CROSSINGS (overpasses)

- Stuart Highway 19 km south of Adelaide River
- Stuart Highway 11 km north of Katherine
- Victoria Highway 5 km west of Katherine
- Stuart Highway 38 km south of Wauchope
- Stuart Highway 16 km north of Alice Springs

## LEGEND

- Stuart Highway
- Existing rail line
- Completed trackwork
- Major town

## SCALE OF THE PROJECT

Length	1420 km
Rail	50kg AS1085.1
Track Gauge	Standard 1435 mm
Sleepers	Prestressed Concrete
Sleeper spacing	700mm/720mm
Max Design Speed	115km/hr
Axle Load	23 tonne
Maximum Grade	1.2 percent
Employment at peak period	1500 people
Cost	A\$1.2 billion

## CAUTION TO THE GENERAL PUBLIC, MOTORISTS AND PEDESTRIANS.

THE RAILWAY CORRIDOR FOR THE ALLICE SPRINGS TO DARWIN RAILWAY A RESTRICTED SITE. UNAUTHORISED ACCESS IS STRICTLY PROHIBITED. PENALTIES OF UP TO \$11,000 MAY APPLY FOR OFFENDERS. TRAINS ARE OPERATING IN THIS AREA. PLEASE OBSERVE ALL SAFETY AND CROSSING SIGNS AND DRIVE CAREFULLY.

For further information contact the AustralAsia Railway Corporation. Telephone (08) 8946 9595. [www.aarc.com.au](http://www.aarc.com.au)