

OCTOBER 2025



NEXT TRIPS

Lancelin Dunes
Surf Carnivals
Lennard Track



Tyre Pressure Guide
Main Roads Distance Book
Main Roads Rest Areas
Improvised Repairs
Grilled Corn Cobs
Moroccan Lamb Cutlets
Steak Sandwiches
Whitegum Farm Trip Report
Westonia Wildflowers Trip Report
Lake Perkolilli Trip Photos
Mandurah 4x4 Show Photos

Next Meeting
October 22

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CLUB CONTACT DETAILS

POST OFFICE BOX 8233

WARNBRO WA 6169

<https://peel4x4club.com>Club Email: peel4x4club@hotmail.comSecretary: secretarypeel4x4club@outlook.comTreasurer: peel4x4.treasurer@gmail.comMagazine Email: peel4x4magazine@gmail.com

2025—2026 COMMITTEE

President Aaron Crane

Vice President Julie Power

Secretary Gary Mayes

Treasurer Dave Knudsen

Insurance Officer Julie Power

Environmental Officer Duane Buckenara

Trip Coordinator Steven Power

Magazine Editor Brian Tanner

Property Officer Jacob Yardley

Delegate Ray and Sharron Warry

Webmaster Gary Mayes

NEXT GENERAL MEETING

22/10/2025

GENERAL MEETING VENUE

Secret Harbour Surf Lifesaving Club

Doors open 7.00 pm

Meeting starts 7.30 pm

NEXT COMMITTEE MEETING

10/12/2025

COMMITTEE MEETING VENUE

Nuddo's place

Membership Fees \$140.00 for the first year then \$90.00 per annum. Pro rata fees will be charged depending on your joining date.



Tow with Confidence

Find us on

Facebook
[peel4x4club](https://www.facebook.com/peel4x4club)




PEEL 4X4 CLUB BYLAWS

- 1.The trip leader will delegate the position of Safety/Recovery officer to another member prior to trip departure.
- 2.All members and visitors are to follow the Safety Officer's instructions at all times
- 3.No pets allowed on club trips.
- 4.Each club member is to be responsible for the safety and whereabouts of their own children.
- 5.Trip Leader responsibilities and Tail End Charlie role to be read out before each trip.
- 6.After 2 trips you must have adequate front and rear recovery points fitted to your vehicle and must have a UHF CB radio.
- 7.Vehicles without adequate front and rear recovery points are limited to scenic/social and easy rated trips.
- 8.All trips are to be rated scenic/social; easy; medium; hard and extreme. Visitors are not permitted on hard and extreme trip. Membership of the WA4Wd Assoc is required for attendance on hard and extreme trips.
- 9.Proceeds from fundraising will be used for club purposes.
- 10.A limit of 15 vehicles per trip will apply. Trip leader has the discretion to increase or decrease this number.
- 11.First in best-dressed, if in excess of 15 vehicles wish to attend a trip, based on prior confirmation.
- 12.Club bank account to hold a minimum of \$1000 balance. A portion of this amount may be used to purchase urgent items at the committee's discretion.
- 13.Whilst every care is taken, no responsibility is accepted.
- 14.Visitors must attend at least 2 trips, rated easy and/or medium, to qualify for membership. Scenic/social trips will not be counted.

PEEL 4X4 CODE OF ETHICS

- 1.Keep to the laws and regulations for 4wd vehicles. They may change from state to state.
- 2.All vehicles must have either comprehensive or third party fire and theft insurance.
- 3.Keep the environment clean. Carry your own and, maybe, other people's rubbish home.
- 4.Obey restrictions on use of public lands. Respect national parks and other conservation areas.
- 5.Obtain permission before driving on private land. Leave livestock alone and gates as found.
- 6.Keep your vehicle mechanically sound.
- 7.Take adequate water, food, fuel and spares on trips. In remote areas travel with another vehicle.
- 8.Respect our wild life. Stop and look but never disturb or chase animals.
- 9.Respect other recreationalists rights to peace and solitude in the bush.
- 10.Obey all fire restrictions. Extinguish your fire before leaving. Don't let your exhaust emit sparks.
- 11.Help in bushfire emergencies and search and rescue but only if you are properly equipped and able.
- 12.Support 4WD touring as a responsible and legitimate recreational activity.
- 13.All members should behave in a socially acceptable manner at all times.

This code is valuable only if you observe it



PEEL 4X4 CLUB TRIP RATINGS



SCENIC / SOCIAL: Sealed roads & some good unsealed roads or tracks.

Road tyres are acceptable.

No 4WD experience required.

EASY: Unsealed roads or tracks. Expect some corrugations.

Road tyres are acceptable. Little or no 4WD experience required.

Front & rear recovery points at the Trip Leaders discretion.

MEDIUM: Off road tracks, with some obstacles expected (rocks, ruts, mud, etc...).

All Terrain tyres are preferred.

Low range may be required, with a snatch strap recovery possible.

Front & rear recovery points are required, along with basic recovery gear.

Tracks may be a little bit scratchy.

HARD: Steep terrain and / or rutted tracks.

All terrain tyres are acceptable; however mud tyres are preferred. Road tyres are not acceptable.

Snatch strap and / or winch recovery may be required.

Front & rear recovery points are required, along with basic recovery gear.

A winch & full recovery gear is preferred.

Some scratches to panel should be expected.

EXTREME: Very steep, deeply rutted tracks or rock hopping will be encountered.

Mud terrain tyres are essential, with appropriate driver training preferred.

Adequate front & rear recovery points, and full recovery gear required.

Winching will be expected, and a winch is compulsory on all vehicles.

Expect scratches to body work, along with panel damage.

Basic Recovery Gear: Snatch strap, 2x rated shackles, and gloves.

Full Recovery Gear: Snatch strap, rated shackles & gloves, tree trunk protector, winch extension.

PLEASE NOTE

Whilst every attempt will be made to accurately describe & classify all trips, weather & other conditions can alter a trip significantly.

The Trip Leader may alter the trip classification at any time, depending on the prevailing weather conditions.

Please confirm your attendance by contacting the Trip Leader a few days prior to the trip. This also gives them the opportunity to advise you of any last minute changes.

Vehicles without adequate front & rear recovery points are limited to Social / Scenic & Easy rated trips.

Visitors are always welcome on Scenic / Social, Easy & Medium rated trips.



CONVOY PROCEDURES

1. Trip leader is to call a group meeting prior to start and remind members of convoy procedure.
2. Leader is to appoint a tail end Charlie and safety officer for each trip.
3. Observe road rules at all times.
4. Leader to appoint a trip reporter.
5. All drivers are responsible for their passengers at all times.
6. All vehicles are responsible for the following vehicle when turning off the road and at cross roads.
7. Vehicles leaving convoy for any reason wave on the remainder of the convoy and inform the Tail End Charlie of their intentions.
8. Keep a safe distance behind the vehicle in front of you. Drive within braking distance especially when wet.
9. When off road allow the vehicle in front of you to get over the crest of a hill before you attempt to follow. Wait for the all clear.
10. No vehicle is to pass the trip leader unless directed or in an emergency.
11. Drive with headlights on at all times. Daylight run lamps are not sufficient as tail lights are required to be on to aid visibility
12. All cars to maintain position/order in convoy at all times.
13. Collect magnetic numbers at designated point of dispersal.

TAIL END CHARLIE RESPONSIBILITIES

1. Assists trip leader with convoy as directed.
2. Advises when -
 - Convoy is mobile
 - Change in direction is completed
 - Member leaves convoy
3. Stays with a vehicle that may leave the convoy for a short stop. Advises trip leader when mobile again.
4. Closes gates etc if advised by trip leader.
5. Ensures cleanliness of area at all stops before leaving.



TIPS TO BECOMING A TRIP LEADER

1. **A Trip:** If there is somewhere you would like to go and would also like to drag the club along with you, why not approach the trip coordinator or another club member and discuss your ideas. Failing that, choose a trip from the club's varied range of notes and maps available.
2. **What Experience Must I Have?** This depends largely on the grade of trip (scenic/ social, easy. Medium, hard, extreme) and area you wish to conduct your trip in. As a rule of thumb, if you, the trip leader feel confident in your abilities, yet realize your limitations, you're in.
3. **Should I Have An Assistant?** YES. An assistant is invaluable in helping to bridge the gaps in your experience and to help balance the decision making, someone who is experienced in 4WD is a good choice. They would normally fill the position of tail end Charlie, providing backup from the rear.
4. **How To Plan A Smooth Trip:** Your trip will only run as smoothly as you plan it. Your pre trip briefing should include convoy procedures, identify tail end Charlie, safety officer, allocation of magnetic numbers, give brief description of what the group may encounter, (the element of surprise doesn't enhance the element of a good trip) and any safety tips eg use of flag.
5. **Flexibility:** At some stage during your trip, things may go wrong such as running behind time, countless recoveries, trapped or lost. Don't despair, things are never as bad as they seem. Don't be afraid to come forward and consult with the group as they are in it just as much as what you are. Pool your ideas and something always comes of it. Flexibility is the key, never be afraid to change your plan.
6. **How To Get Started:** Formulate your intention on paper - where you want to go, time and date and any special features of land marks you wish to include. See the trip coordinator who can help out with maps and advice or give you the name of someone who has been there before. You may also need to contact relevant authorities', eg DBCA, caravan parks, road conditions and property owners for further information. The trip coordinator will place your trip on the calendar and organize a sheet to go out at the meeting.
7. **What's The Hardest Task?** Giving It A Go!!: con, bribe, coerce or draw straws to pick some unfortunate soul to write up a trip report for the magazine (definitely the hardest part). So when you reflect back on your trip your hearsay adventures and yourself, umpteen grueling hours up to your neck in mud and leeches, grueling hours of gut wrenching recoveries and those dribble sessions around a campfire. A trip report ending in the words, "Good time had by all" is well worth giving trip leader a go.

NOTE - If you have ever been a trip leader, you will know how frustrating it is when people put their name on the trip sheet then don't turn up! If you put your name down to go on a trip make note of it and if you are unable to attend for any reason (or no reason at all) let the trip leader know so they are not waiting for you. Be punctual too as you being late can cause frustration when we have to meet up with other people along the way or set tour times! If you are running late phone the trip leader.

CLUB SHIRTS



PILBARA COTTON SHIRT

**AVAILABLE IN
FULL & HALF BUTTON
LONG & SHORT SLEEVE**

\$55 ALL STYLES



RAZOR POLO

**AVAILABLE IN
MENS, LADIES
& KIDS SIZING**

**ADULTS \$40
KIDS \$35**

**ALL PRICES INCLUDE
EMBROIDERY OF CLUB
LOGO**

**NAMES OPTIONAL
EXTRA \$7**

**** ORDERS CAN BE PLACED
THROUGH THE WEBMASTER****

**PEEL4X4.WEBMASTER@GMAIL.COM OR AT
A GENERAL MEETING**



PEEL 4X4 CLUB Property Register



- * 1x Space Case (900L x 390W x 400H)
- * 4x 490mm Black Plastic Sand Pegs
- * 1x ARB Gazebo
- * 1x Wanderer Gazebo
- * 1x Heatlie BBQ (~880mm x 540mm)
- * 1x Plastic Peel 4x4 Club sign (Folding Triangle Core Flute Type)
- * 1x 5.33kg Gas Bottle (Empty)
- * 1x Wanderer single wall for gazebo
- * 1x wanderer half wall for gazebo
- * 1x 600mm diameter collapsible bin
- * Gavel & block (President)
- * Trophy – Most talked about event of the year (1998 – 2014) (Broken)
- * Trophy – Burnt pot award (2000 – 2014)
- * 4x metal Peel 4x4 signs (staked flag design)
- * Various large paper & laminated maps
- * 1x 2.9m Snatch Strap
- * 1x Red & Yellow Peel 4x4 Club Flag / Banner (1940mm x 970mm)
- * 1x Tennis Net in bag (no racquets)
- * Heap of old Peel 4x4 Club magazines, hard floppy disks, and stuff...
- * 1 orange safety vest

- * GME MT610G GPS PLB (with cover)
 UIN = 3EEEEAA4E8AFFBFF
 Batch Expiry = 12/2029
 Serial No. = 2206617244

- * GME MT610G GPS PLB (with cover)
 UIN = 3EEEEAA4E8CFFBFF
 Batch Expiry = 12/2029
 Serial No. = 22066200345

- * GME MT610G GPS PLB (with cover)
 UIN = 3EEEEAA4E78FFBFF
 Batch Expiry = 12/2029
 Serial No. = 2206620806



Containers for Change



After the AGM we made an account to donate the empty recycling containers to the club.

These funds can then be used towards our social functions or other agreed upon purchases for the club as something a little extra.

No obligation, and we understand people collect their own, but if you have any empty bottles or cans laying around please feel free to use the QR code or account

C11064407



Purchase an Entertainment Membership and get a FREE UPGRADE
Simply click on the link below:

<https://subscribe.entertainment.com.au/fundraiser/84490n>



We're fundraising with
 Entertainment

Discover more, everyday
with the Entertainment Membership

Bonus Upgrade to
Multi City Membership*

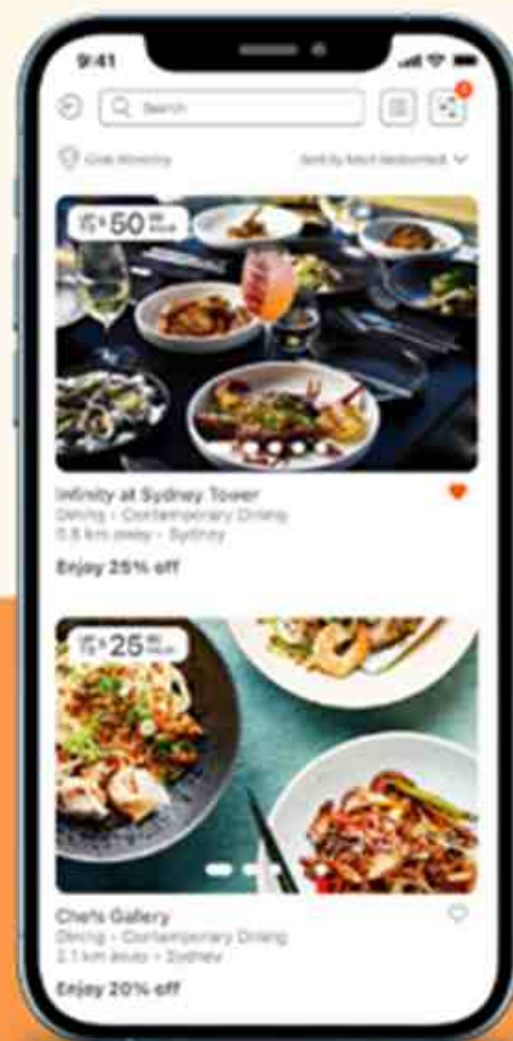
12 months		24 months	
Pay	Save	Pay	Save
\$70	\$50	\$120	\$110
We receive		We receive	
\$14		\$24	

*T&Cs apply.

The savvy
way to give back

Buy today and 20% of the purchase price
goes directly to our fundraising cause.

Support us now





G'day club members ,

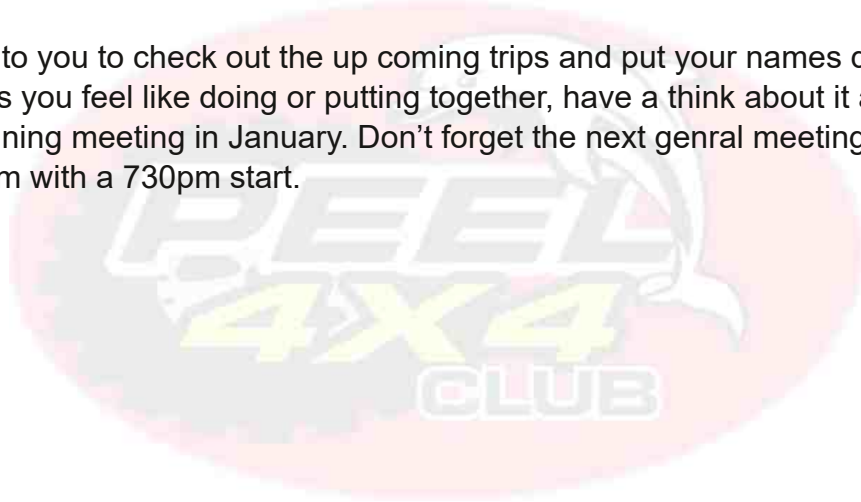
The past month things have really been ramping up at work for me, so it has been good to be getting out a little at a couple of club events. The weekend away at White Gum park was most enjoyable and gave me the opportunity too see how we all camp. It was a great weekend away out in the wheatbelt with the canola in bloom. The park itself I thought is well set up with a great restaurant and fantastic caravan park and a good 4wd area. This all certainly provided members with a opportunity to test there skills. With a couple of recoveries had and a good time by all. The night out at ARB gave a good insight into the workings of the store for those that attended. There setup is very impressive and it was nice to here about the history of where Ben and the team have come from to get where they are today. I have wasted no time in fitting the sand flag that we brought to the car and am looking forward to trying it out on Daves trip to Lancelin in the dunes.

We had the display at the Mandurah boat, caravan and 4wd show over the weekend which provided a good opportunity to get the club out and showcase it to anyone looking at getting out and about with there 4wds , quite a few people were spoken to and I am sure we will see some new faces on the next trips. Thankyou to all those involved.

A quick reminder to you to check out the up coming trips and put your names down, also if there are any trips you feel like doing or putting together, have a think about it and bring them up at the trip planning meeting in January. Don't forget the next genral meeting is 22 October doors open at 7pm with a 730pm start.

Cheers

Aaron Crane





Some happenings that occurred during the Whitegum Farm trip reinforces why we choose to be in a 4x4 club.

The first was what appeared to be a group of mates, one of their number drove through a large mud hole that had very steep sides, needless to say he become trapped at the bottom. By the time we came along he had been there for over an hour with all his mates lining the rim of the mudhole with beers in hand having a lot of fun at his expense. When asked if they needed help they said they have all the gear and were just having fun. I doubt the one stuck was having much fun.

The second was when one of our members had a serious mishap, flipping the car on it's side leading to a difficult driver rescue and vehicle recovery.

I was extremely thankful we have a great team of members that banded together to make the operation smooth, safe and efficient. Everyone involved remained relatively calm in such a stressful situation, offering suggestions, discussing the methods to be implemented, supporting each other and working as a great team. In hindsight I don't think we could have managed the situation much better.

Well done and thank you Peel 4x4 Club.

The Mandurah 4x4 show is over again and we may have a few prospective new members from it so we will see what happens. I was under strict instructions not to come home with a new car or caravan so I had to content myself with looking for toys so I bought a Hema HX-2, this is the runout model but has been updated to the HX-2+ software so it should be futureproof for at least a year or two. Once I learn how to use it I will make some notes for the magazine.

It's a bit short notice but there are two surf club events coming up over the next few weeks, see the facebook page or ask at the meeting. I would like to remind everyone that helping out at these events is our original agreement with the surf club where we would help out a few times per year and in return we get the use of the meeting room at no cost. If we were to stop doing this we would need to raise our membership fees to cover the cost of a meeting venue so please put your hand up to attend. It's only for a few hours and not hard plus we get to drive on a beach that otherwise off limits

As you may remember I reported last month that I was challenged to produce a 142 page magazine. at over 160 pages I have certainly surpassed that with this mag so please enjoy.

Brisey

PS: I have already been challenged to make an even bigger one but have (I hope) politely refused. I will not engage in this sort of folly in the future as it is far too much work



It is a great honour to take on the Treasures roll and thank the outgoing committee for the contributions and I welcome the new committee members.

Well where do I start. Banks stuff for the new Treasurer - Went to the Wespac Bank Rockingham to get Treasurer authorisation and deposit the AGM monies. Having to wait a good 15-20 min to be seen I mentioned that I had to deposit coins / notes into the Peel 4x4 account so they directed me to go to the coin deposit machine, put my bank card in and insert the coins, I then informed them that it is a club / business account that doesn't have a bank card. They quickly informed me that it is the only way to deposit coins / notes, I then asked a couple of questions, Isn't this a bank where people take their money to save or hold Australian legal currency, and what do small businesses do, to deposit coins/ cash. The answer was go to another branch eg Kardinya that take bagged money.

So I decided to go to my bank to deposit the cash / coins. They were helpful and gave me coin bags which I had to sort out BUT that day, all tellers were down for maintenance.

Sorry if I offend anyone, but the Wespac Rockingham has been the worst bank I have ever dealt with.

Any way that is my rant.

Movers from last year;

Unfortunately Winton Hedland has resigned from the club, I would like to thank Winton for all his efforts within the club, he was a part of the committee, he led trips, contributed heaps of knowledge about allsorts and his great humour will be missed. We wish Winton all the best on his next adventures.

We have had a few moved interstate and not renewed due to other commitments.

Firstly Mike and Mandy Kelly have moved to sunny Queensland, Mike was a major part of the committee, he led trips, contributed heaps of knowledge on fishing and had fishing lessons for all of us to enjoy.

Frank and Simone also move to Queensland, Frank also was a part of the committee, and I'll remember him by the Tec Screws holding his car together lol

Cassie Mayes, Cassie was a major part of the committee and contributed to improvements in the running of the club's finances and systems, her wonderful nature, humour and personality will be missed.

Karl and Julie, Karl and Julie attended the majority of trips and social events brought their good humour and fun personalities to the group.

Dave Philp, Dave attended trips and was ever reliable to our surf carnival trips and his good nature will be missed.

Bianca Koa, Bianca and the kids tagged along and she wasn't scared of tackling the tracks and her pleasant humour and personality will be missed.

I would like to thank them all for being a part of the Peel 4x4 club and their contribution has made a positive impact to what our club has become.

Please forgive me if I have missed anyone.

Dave Knudsen (Nuddo)

Peel 4x4 Club

Treasurer



GENERAL MEETING OF THE PEEL 4X4 CLUB

General Meeting Minutes

Date: Wednesday 24th September, 2025

Venue: Secret Harbour Surf Life Saving Club



Meeting Opened: 7:30pm

Safety Briefing.

ATTENDEES & VISITORS. As per attendance register.

APOLOGIES / PROXIES. As per attendance register. Apologies: Peter Jones; Brian Tanner;
Dave Knudsen; Jacob Yardley; Peter & Donna Light; Morgan Atkinson; Leon Castle

1. TRIPS SINCE LAST MEETING

- Whitegum Farm. 20th September. Trip Leader: Steven Power

2. CONFIRMATION OF MINUTES FROM PREVIOUS GENERAL MEETING – 27th August 2025

Chairperson Aaron Crane has accepted & signed the previous minutes.

No objections as to the accuracy of the minutes.

Unanimously Accepted.

3. BUSINESS & ACTIONS FROM THE PREVIOUS MINUTES

- No business or actions from the previous meeting were discussed.

4. PRESIDENTS REPORT (Aaron Crane)

- Nothing to report.

Business for the President:

- No business for the President.



GENERAL MEETING OF THE PEEL 4X4 CLUB

General Meeting Minutes

Date: Wednesday 24th September, 2025

Venue: Secret Harbour Surf Life Saving Club



5. SECRETARY'S REPORT (Gary Mayes)

- Gary advised that he had been in communication with Kim from the Secret Harbour Surf Life Saving Club (SHSLSC) in regards to the use of the upstairs function room for our General Meetings. Kim advised that the SHSLSC truly value everything that our club does to support the SHSLSC.

Following this discussion, it was confirmed that we will once again be able to use the upstairs area for General Meetings, with the exception of Wednesday 26th November, when the room is already booked.

- Gary confirmed that we have the King Road Brewery confirmed for our Christmas Party on Sunday 14th December 2025. This starts at 12:00pm.
- Gary advised that he had not yet heard back from the PK Tavern in regards to the Trip Planning Meeting on Sunday 11th January 2026. Post Meeting, this has now been confirmed, and will start at 2:00pm.
- Gary read out the email from the SHSLSC, with dates for the Summer Carnivals confirmed. These have been added to the Trip Coordinators Section of these minutes.
- Gary read out the email from the Mandurah Boat, Caravan, 4wd & Camping Show Director, announcing that we have officially been sponsored again, and will be at Site No. 42, which looks to be the same site as last year.
- Only mail for this month was a bank statement.

Business for the Secretary:

- Steven Power asked if Gary had called Bush Barriers yet in regards to the discount for the Mandurah Show. Gary advised that our position at the Mandurah show had only been confirmed the day before, but would get to it in the coming days. **ACTION: Gary to follow up with Bush Barriers.**

6. TREASURERS REPORT (Dave Knudsen - Apologies)

- The Treasurer was unable to make the meeting, but sent through the Treasurers Report. Gary & Aaron tried to read it, but too many numbers 😞

Closing balance of the account on the night of the meeting was \$6,562.64

- Badges & Trophy Shields have been picked up.
- We currently have 33x members, plus 4x life members.

Winton Headlam has resigned.

3x members have not paid their renewals. Invoices were sent out on 5th September for renewal, and reminders were sent out on 24th September.

Business for the Treasurer:

- There was no business for the Treasurer.



GENERAL MEETING OF THE PEEL 4X4 CLUB

General Meeting Minutes

Date: Wednesday 24th September, 2025

Venue: Secret Harbour Surf Life Saving Club



7. INSURANCE OFFICERS REPORT (Julie Power)

- Nothing to report.
Business for the Insurance Officer:
- No business for the Insurance Officer.

8. PROPERTY OFFICER (Jacob Yardley - Apologies)

- Jacob did not send anything through to report.
Business for the Property Officer
- Gary mentioned that we would need to get the gazebos for the Mandurah 4x4 Show.
ACTION: Gary to follow up with Jacob.

9. ENVIRONMENTAL OFFICERS REPORT (Duane Buckenara)

- Nothing to report.
Business for the Environmental Officer
- No business for the Environmental Officer.

10. DELEGATES REPORT (Ray & Sharon Warry)

- WA4WDA Committee Roles. Still looking for a PR Officer to take some of the load off the executive committee.
- It was requested that we keep sending trip reports through to Brice. Email address: webmanager@wa4wda.com.au
- Delegates were reminded of the REPCO Discount, and to pass on to their clubs.
- Western Patrol Club & Eastern Suburbs 4WD Club will be leaving the Association.

Business for the Delegate

- There was no business for the Delegates, however there was discussion reminding members that we also get 10% discount at Autobarn Mandurah. If you would like a discount card, please see the Secretary.
- There is also a 10% discount at Jaycar. Just ask for Jamie, and say you are with the Peel 4x4 Club.

11. MAGAZINE EDITORS REPORT (Brian Tanner - Apologies)

- Brian did not send anything through to report.
Business for the Magazine Editor
- No business for the Magazine Editor.



GENERAL MEETING OF THE PEEL 4X4 CLUB

General Meeting Minutes

Date: Wednesday 24th September, 2025

Venue: Secret Harbour Surf Life Saving Club



12. WEBMASTERS REPORT (Gary Mayes)

- Two more declines to the Members Facebook Page. Declined with a comment to send me an email for more information.
- Response back from a website enquiry last week. Replied back (Jason Hussey). Jason was also at the meeting, and was welcomed.
- Also other communication from David Rea.
- Gary advised he forgot to get website & social stats, however would add to the minutes. Please see below:
173 Website visits. 60 in the last 7 days.
277 Social Media views. 54 in the last 7 days.
Business for the Webmaster
- No business for the Webmaster.

13. TRIP COORDINATORS REPORT (Steven Power)

Upcoming Trips

- 26th to 30th September. Westonia Wild Flowers. Trip Leader: Brian Tanner.
- 2nd to 6th October. Lake Perkolilli. Trip Leader: Mark Skeels.
- 9th to 12th October. Mandurah Caravan, Camping, Boat & 4x4 Show.
- 18th to 19th October. Sandy Cape. Jacob has advised that he is unable to run this trip, and asked if there was someone that could. If no-one is able to lead this trip, it will be cancelled.
- 17th to 25th October. Koorda Drive-In & Karrara Ranges. Trip Leader: Mark Skeels.
- 16th November. Lancellin Dunes. Dave Knudsen.
- 22nd to 23rd November. Lennard Track Overnighter. Trip Leader: Gary Mayes. Camping at Honeymoon Pool.
- Sunday 14th December. Christmas Party at King Road Brewery. Trip Leader: Peel 4x4 Club Committee.
- Sunday 11th January 2026. Trip Planning Meeting at PK Tavern. Trip Leader: Peel 4x4 Club Committee.

Business for the Trip Coordinator

- No business for the Trip Coordinator.



GENERAL MEETING OF THE PEEL 4X4 CLUB

General Meeting Minutes

Date: Wednesday 24th September, 2025

Venue: Secret Harbour Surf Life Saving Club



14. GENERAL BUSINESS

- Gary discussed the upcoming Surf Club Carnivals at the Secret Harbour Surf Life Saving Club.
 - Saturday 15th November 2025. Western Suns Selection Carnival
 - Sunday 23rd November 2025. Surf Boat Carnival
 - Sunday 8th February 2026. Surf Boat Carnival
- Club Stirrer of the Year award was handed to Duane Buckenara.
- Several badges were handed out to members.
- Steve spoke about the trip at Whitegum Farm. 7x members attended, along with 1x visitor. Steve suggested it would be good for training events.

15. TECHNICAL SEGMENT

- Gary provided some information on Dyneema Rope. What it is, benefits over wire rope, etc...

NEXT GENERAL MEETING: Wednesday 22nd October. Upstairs room at the Secret Harbour Surf Life Saving Club. Doors open at 7:00pm. Meeting starts at 7:30pm.

NEXT COMMITTEE MEETING: Wednesday 8th October at 7:00pm. Hosted by Gary Mayes.

NEXT DELEGATES MEETING: Monday 20th October. Gosnells RSL Hall. Starting at 7:30pm.

Meeting closed at: 8:37pm

The minutes from this meeting have been verified as true & correct.

Aaron Crane

Peel 4x4 Club Chairperson

Date:

7-10-25



COMMITTEE MEETING OF THE PEEL 4X4 CLUB

Committee Meeting Minutes

Date: Wednesday 8th October

Venue: Hosted by Gary Mayes



Meeting Opened: 7:29pm

PRESENT: Gary Mayes (GM); Brian Tanner (BT); Dave Knudsen (DK); Julie Power (JP);

APOLOGIES (A) & PROXIES (P): Jacob Yardley (JY)(APP); Duane Buckenara (DB)(APP); Steven Power (SP)(APP)

1. CONFIRMATION OF MINUTES FROM PREVIOUS COMMITTEE MEETING – 13th August 2025

Chairperson Aaron Crane has signed & accepted the previous minutes.

No objections as to the accuracy of the minutes.

Unanimously Accepted.

2. BUSINESS & ACTIONS FROM THE PREVIOUS MINUTES

- GM to update PO Box details. Ensure GM; AC & DK are on the authorised members list. **Outstanding. ACTION: GM**
- GM to email DK with details of members who have not yet renewed. COMPLETE
- GM to email Westpac to ensure DK is on the approved persons list. DK was sorting out. Advised that he has full access, but no approvals. JP thinks she is the same. DK will go into the Mandurah branch and follow up. **ACTION: DK**
- GM to send BT an updated list once membership renewals are confirmed. Complete.
- GM to email Julie Power with policy details. COMPLETE
- BT asked if DK could please run off a Treasurers Report for the magazine. COMPLETE
- GM to organise Christmas Party at King Road Tavern for Sunday 14th December. COMPLETE
- GM to organise Trip Planning Meeting at PK Tavern for Sunday 11th January 2026. COMPLETE
- SP mentioned he would follow up to see if we can do Windy Harbour again. COMPLETE. See Trip Coordinators section for more details.
- GM to follow up on ARB Rockingham Private Trading / Information Night. COMPLETE
- GM to follow up with Secret Harbour Surf Life Saving Club, in regards to use of upstairs room for General Meetings. COMPLETE
- GM to follow up in regards to the Mandurah 4WD, Boating, Caravan & Camping show. COMPLETE

3. PRESIDENTS REPORT (Aaron Crane)

- Nothing to report.
Business for the President:
- No business for the President.

**COMMITTEE MEETING OF THE PEEL 4X4 CLUB****Committee Meeting Minutes**Date: Wednesday 8th October

Venue: Hosted by Gary Mayes

**4. SECRETARY'S REPORT (Gary Mayes)**

- GM advised that the Secretary laptop is now in full operation.
- All other Secretarial business was discussed in the business & actions from the previous minutes.
- DK advised there was no mail.

Business for the Secretary:

- No business for the Secretary.

5. TREASURERS REPORT (Dave Knudsen)

- \$18 in square pay taken in from last General Meeting, along with \$88 in cash.
- DK advised that we currently have a total of 37 members. 33 standard memberships, and 4x life members.
- TPDVWA has been paid for the AGM Venue Hire, along with Star Trophies (award shields) and Minuteman Press (badges).
- DK advised that he had emailed Karl & Julie Wassell, Bianca Crewe, and Dave Philp about rejoining, however did not get a response. He also spoke with Winton about his resignation. There was also discussion about the possibility of inter-club trips with Wintons new club (in the Northern suburbs).
- Discussion in regards to having a hard cut off for membership renewals, rather than continually following up. If members don't pay by the due date, they will need to go through the process again for new members.

Business for the Treasurer:

- No business for the Treasurer.

6. INSURANCE OFFICERS REPORT (Julie Power)

- Nothing to report.

Business for the Insurance Officer:

- There was discussion about having a leader when we are doing recoveries, to avoid multiple people directing others, causing confusion. This worked well with the Whitegum Farm recovery.

7. PROPERTY OFFICER (Jacob Yardley) (Apologies)

- Nothing sent through.

Business for the Property Officer

- No business for the Property Officer.

8. ENVIRONMENTAL OFFICERS REPORT (Duane Buckenara) (Apologies)

- Nothing sent through.

Business for the Environmental Officer

- No business for the Environmental Officer.



COMMITTEE MEETING OF THE PEEL 4X4 CLUB

Committee Meeting Minutes

Date: Wednesday 8th October

Venue: Hosted by Gary Mayes



9. DELEGATES REPORT (Ray & Sharon Warry)

- Nothing sent through.
Business for the Delegate
- No business for the Delegates.

10. MAGAZINE EDITORS REPORT (Brian Tanner)

- BT advise that the deadline for magazine submissions will be Wednesday 15th October.
- BT asked GM to send through a visitors email address. COMPLETE.
Business for the Magazine Editor
- No business for the Magazine Editor.

11. WEBMASTERS REPORT (Gary Mayes)

- 207 Website visits. 56 in the last 7 days. (06/10/2025)
- 277 Social views. 54 in the last 7 days. (06/10/2025)
- Website due for renewal on 30/12/2026
- Domain protection due for renewal on 23/10/2027
- Have worked out how to add people to members page.
- Website enquiry from John Belford. Responded.
Business for the Webmaster
- There was some discussion about how to keep relevant stuff at the top of the page. GM advised that for important stuff, we can pin it to the top of the page. Individual members may also be able to do that on their own page.
GM also mentioned that the events can be accessed by going to the "Events" tab on the page. They are in order by date, with the closest one first.



COMMITTEE MEETING OF THE PEEL 4X4 CLUB

Committee Meeting Minutes

Date: Wednesday 8th October

Venue: Hosted by Gary Mayes



12. TRIP COORDINATORS REPORT (Steven Power)

- 9th to 12th October. Mandurah Caravan, Camping, Boat & 4x4 Show.
- 18th to 19th October. Sandy Cape. Mentioned that Jacob can no longer run this trip, and needs to be cancelled.
- 17th to 25th October. Koorda Drive-In & Karrara Ranges. Trip Leader: Mark Skeels.
- Saturday 15th November. Surf Club Carnival. Potentially only a small one.
- 16th November. Lancelin Dunes. Dave Knudsen.
- Sunday 23rd November. Surf Club Carnival.
- 29th to 30th November. Lennard Track Overnighter. Trip Leader: Gary Mayes. Camping at Honeymoon Pool.
- Sunday 14th December. Christmas Party at King Road Brewery. Trip Leader: Peel 4x4 Club Committee.
- Sunday 11th January 2026. Trip Planning Meeting at PK Tavern. Trip Leader: Peel 4x4 Club Committee.
- Friday 23rd January to Monday 26th January. 10 sites have been booked. Need to finalise by December. Prices below.

CAMPING FEES	2025/2026	PEAK RATE
Family Rate (2adults & 2 children under 18)	\$45.00	\$56.25
Child (or additional child)	\$8.00	\$10.00
Adult (or additional adult)	\$17.50	\$21.50
Pensioner/Senior Card	\$12.00	\$15.00
Family Rate 7 nights (2adults & 2 children under 18)	\$270.00	\$337.50
Shower non-campers	\$5.00	\$6.25
Powered sites (extra per booking/night)	\$9.00	
Firewood (per bag)	\$15.50	

- Saturday 7th February 2026. Surf Club Carnival.

Business for the Trip Coordinator

- It was raised that the Lennards Track Overnight trip was the same day as the Surf Boat Carnival. GM will update the trip. **ACTION: GM**



COMMITTEE MEETING OF THE PEEL 4X4 CLUB

Committee Meeting Minutes

Date: Wednesday 8th October

Venue: Hosted by Gary Mayes



13. GENERAL BUSINESS

- GM raised about visitors attending the Christmas Party. As per previous years, visitors are welcome, however will need to pay \$15 per adult. \$15 will be subsidised if the visitor joins the club.
- It was discussed that the Western Patrol 4WD Club did not just leave the WA4WDA as reported at the last General Meeting, they have actually folded, due to being able to form a committee, members not attending meetings, and no-one running trips.
- Brief discussion about using Government Grants for Training Days.
- Discussion about unrated TEMU soft shackles outlasting chains when moving a 16T load.

NEXT GENERAL MEETING: Wednesday 22nd October 2025.

NEXT COMMITTEE MEETING: Monday 20th October 2025.

NEXT DELEGATES MEETING: Wednesday 10th December 2025. Hosted by Dave & Sarah.

Meeting closed at: 9:29pm

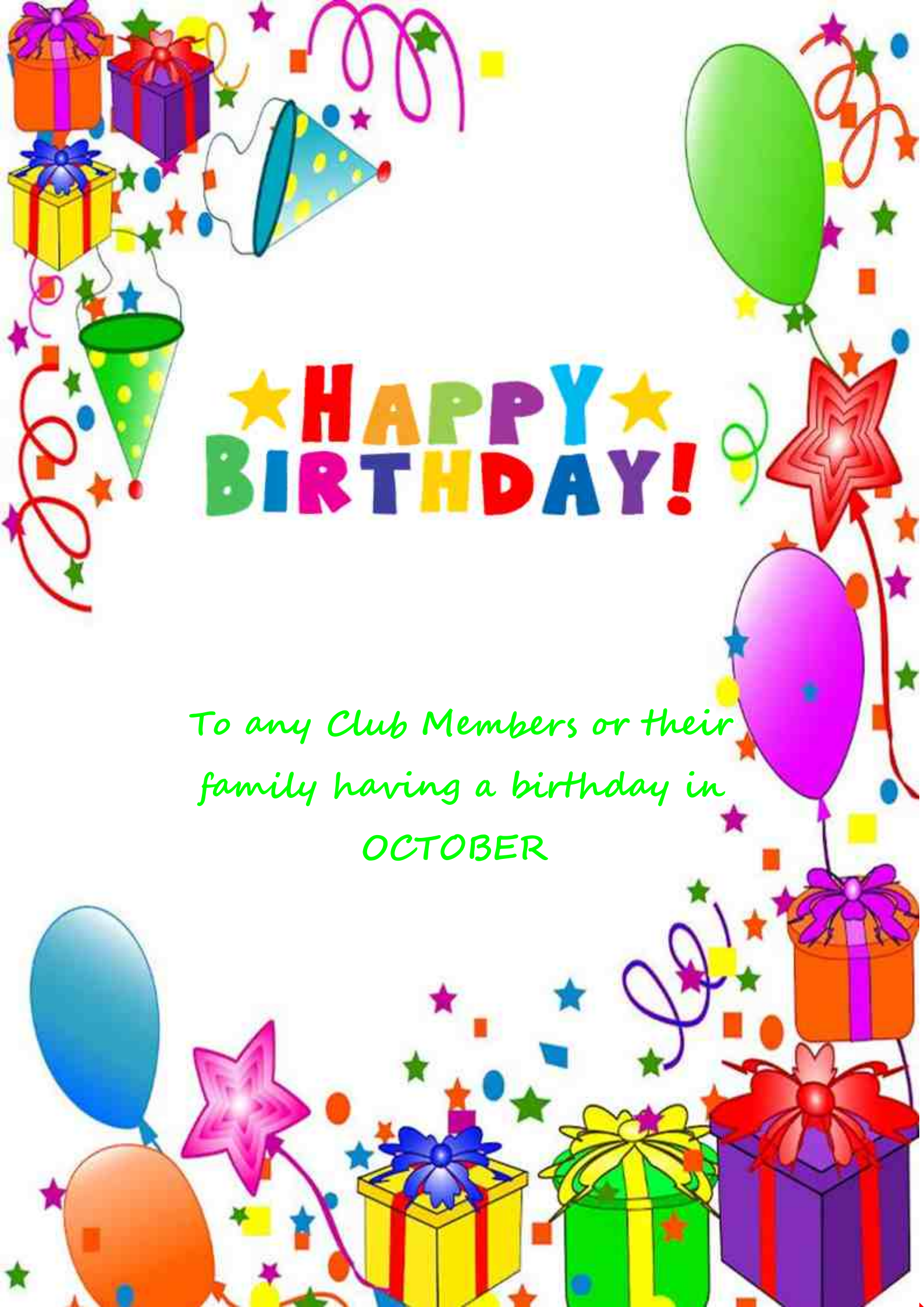
The minutes from this meeting have been verified as true & correct.

Aaron Crane

Peel 4x4 Club Chairperson

Date:

14-10-25



**HAPPY
BIRTHDAY!**

*To any Club Members or their
family having a birthday in
OCTOBER*



I have had a better look at this app, while I am suitably impressed with the simple operation the included Natmaps appear to be decades old and you need to have the anual subscription and pay a one off fee to use what I believe is the latest Natmap maps.

Brisey

Not too long ago I stumbled across an Android navigation APP called Australia Topo Maps and is similar to Oziexplorer for Android. It appears simple enough to use and comes with a good assortment of maps including satilite maps. Like Oziexplorer it shows your position on a map screen, save waypoints and tracks in the free version. With a subscription (about \$20.00 anually) you an import GPX tracks and waypoints. The free version does require internet connection for access to maps but the subscription version has the ability to cache maps on your device for offline use. I haven't used it yet but intend to use it on the club trips over the next 2 weeks so I will include my impressions in next month's magazine



Australia Topo Maps - Tutorial

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What's new

- Added new layer "Cyclonoid"
- Fixed layer "Geology of Australia"
- Bug fixes & Improvements

App support

- Website
- Support email: info@atlogis.com
- Privacy Policy

About the developer

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33330 Gütersloh
Germany
+49 171 1738948



Peter Dawes

Sun, Oct 5, 12:15 PM (5 days ago)
to me

Hi Brian:- Myself and Garry Raffaele did some testing on an UNRATED TEMU soft shackle with some amazing results. Don't know if its worth putting in magazine but your opinion after reading this would be appreciated as there will be a few negative comments on how we tested this item.(safety etc).I saw these on TEMU for A\$8.00 ea . I thought got to try them out to see when they fail.

Test 1:- We used chain and soft shackle to pull 10 tons of truck with brakes locked on. On a gravel driveway. Dragged it No problem.

Test 2:- We loaded 6 ton of sand in the truck (Now 16ton) and did same test. Chain broke. Shackle OK.

Test 3:- Used a heavier duty chain and dragged on gravel 16ton truck with brakes locked on . No problem.

Test 4: Did a snatch of 16 Ton truck .No problem.

We couldn't break this shackle . Not every thing is rubbish from China. However I must remind anyone using these THEY ARE NOT RATED.

But we had a great afternoon trying to destroy it.



The shackle after testing



Tyre-Pressure-Guide

One of the simplest – and most important – things you can do to keep your tyres in good shape is to make sure that they are correctly inflated. Failure to maintain correct tyre pressures may result in fast and uneven treadwear, improper vehicle handling, and excessive heat build-up, resulting in tyre failure.

REGULAR TYRE PRESSURE CHECKS

You should check your tyre's pressure at least once a month, before each trip, and each morning you drive during a trip. Ideally, tyre pressure should be measured when tyres are cold, that is, before doing any driving on tyres. Only "bleed" or reduce air pressure from a hot tyre when you need to lower pressures to drive on particular terrain but remember to re-inflate your tyres when you reach your destination or return to terrain that requires higher pressure.

MEASURING TYRE PRESSURE

It's essential to be accurate when inflating your tyres. Don't try to "eyeball" the pressure – a tyre can lose half its pressure without looking flat. Instead, use a reliable tyre pressure gauge. It's a good idea to have your own gauge.

UNDER-INFLATION

If your vehicle's tyres are under-inflated by as little as 6 psi, it could lead to tyre damage. Additionally, the tyre's tread life could be reduced significantly with tyres wearing more on the outside shoulders. Lower inflation pressure allows the tyre to flex more as it rolls, causing internal heat to build up, which could lead to tyre failure. Also, low pressures increase rolling resistance and cause a reduction in fuel economy. You would also find a significant loss of steering precision and cornering stability. While 6 psi doesn't seem excessively low, remember, it usually represents about 20% of the tyre's recommended pressure. You should also be aware that the load capacity of your tyres is reduced at lower pressures.

OVER-INFLATION

If your tyres are over-inflated by as little as 6 psi, they could be damaged more easily when driving over potholes or debris on the road. Overinflation also causes tyres to wear in the centre of the tyre's tread, which will reduce the tread life; higher inflated tyres will also give you a much harsher ride.

IMPORTANT FACTORS WHEN SELECTING TYRE PRESSURES

There is no universal "right" pressure for all tyres. The proper inflation level is dependent on many factors such as what tyres you have, type of vehicle, amount of load, how the vehicle is being driven and condition of the road, to name a few. The important thing to remember is that as load increases, you will need to increase pressure but never exceed the maximum pressure stamped on the tyre's sidewall. For harsher road surfaces, a lower pressure with lower speed may be needed to avoid tyre damage. This could mean the difference between an empty tray in a UTE vs. a loaded tray.

WEAR PATTERNS OF AN UNDER-INFLATED, PROPERLY INFLATED AND OVER-INFLATED TYRE

4WD-Drivers-Guide-Images

THE 4 PSI RULE APPLIES TO BITUMEN ROAD USE ONLY

As a rule, the following can be used (for road use only): For passenger tyres, inflate your cold tyres to the recommended tyre pressure on your vehicle's tyre placard*. Then to determine if you have the correct pressure for your current load, note down the cold tyre pressure reading. Drive for at least 20-30 minutes to ensure they have reached operating temperature and check again. Ideally, they should be 4psi above the cold pressure. For Light Truck and 4x4 tyres, use 6psi as a guide, but rough and corrugated roads cause more flexing, and your tyres may rise more than 4 or 6psi. In which case, applying this "rule" is not recommended.

*Beware of vehicle placards with recommendations below 30psi. Some older vehicles may still



have lower pressures on the placard, which were used to “enhance” ride but resulted in poor tyre life and, in some circumstances, are dangerous.

EFFECT OF ADJUSTING TYRE PRESSURES ON THE SIZE OF A TYRE’S FOOTPRINT

This diagram illustrates the effect of reducing your tyre pressures on the size of the footprint of your tyres. Reducing pressures and increasing the size of your tyre’s footprint spreads the weight of your vehicle over a larger area, so when driving on sand, for example, your tyres will drive ‘over the top’ of the sand. If you maintain high pressures and a small footprint, your tyres are more likely to ‘dig down’ into the sand and even get you stuck. Reducing the pressure and increasing the size of your tyre’s footprint also increases traction in off-road conditions. Remember, whenever you lower your tyre pressure, re-inflate to the proper levels as soon as you drive back onto the bitumen or increase speed.

PSI-Guide

PRECAUTIONARY NOTICE:

*DISCLAIMER: This is a guide based on an average range of sizes, NOT a specific size or tyre. Narrow commercial-style tyres require higher pressures. You must consult your specific vehicle’s weight and tyre size. Lowering pressures may be necessary to get your vehicle through an extreme section of terrain or reduce tyre damage in off-road conditions. However, lowering tyre pressures below the manufacturer’s recommended pressure for your vehicle is at your own risk and judgement. Doing so could cause overheating and long-term tyre damage. So, you must drive slowly over obstacles and re-inflate your tyres to proper levels once your vehicle is returned to normal applications and conditions. All pressures are suggested for light truck construction tyres only and should not be advised to anyone driving on passenger construction tyres. Consult the manufacturer for recommended tyre pressures relevant to that brand.

traveloutbackaustralia-bitumen

TYRE PRESSURE GUIDE FOR DIFFERENT TERRAINS

BITUMEN 32-38 PSI*

For standard size tyres, use pressures specified on your vehicle’s placard. Higher pressures will be required when carrying heavy loads.

traveloutbackaustralia-sand

TYRE PRESSURE GUIDE FOR DIFFERENT TERRAINS

SAND 18-26 PSI*

This depends on the depth and coarseness of the sand and the grade. Lower pressure increases the size of your tyre’s footprint, increasing its ability to stay on top of the sand instead of digging in, or its flotation characteristics. You want enough momentum to stay on top. Higher pressures will be required when carrying heavy loads. Sudden or heavy movements of the steering can be dangerous and speed needs to be appropriately reduced depending on the depth of the sand.

Sand can vary rapidly in patches. Sand can also build up a lot of heat in your tyres because you are running lower pressures for flotation and because of friction and wheel spin. So, you may need to rest your vehicle regularly. Out of all terrains and applications, sand creates the most constant resistance to tyres, gearboxes and motors.

traveloutbackaustralia-fast-smooth-gravel

TYRE PRESSURE GUIDE FOR DIFFERENT TERRAINS

FAST / SMOOTH GRAVEL 28-32 PSI*

If your tyre pressure is too low on this surface, you’ll lose steering response and stability, especially if you are driving fast. Higher pressures will be required when carrying heavy loads; when driving over corrugated roads, you should reduce your speed as heat builds up quickly on these roads.

traveloutbackaustralia-slow-rough-gravel



TYRE PRESSURE GUIDE FOR DIFFERENT TERRAINS

SLOW / ROUGH GRAVEL 24-28 PSI*

This depends on how slow, how rough and with what load. Keep in mind that the higher the speed, the more heat generated in the tyre according to your load and terrain being covered. High temperature in the belts of the tyre is not something you can always feel by hand either. Higher pressures will be required when carrying heavy loads.

traveloutbackaustralia-rocky-gravel

TYRE PRESSURE GUIDE FOR DIFFERENT TERRAINS

ROCKY GRAVEL / ROCKS 20-26 PSI*

This is assuming that the going is very slow, driving in low range, and not generating a lot of heat in the tyre to improve its traction and flexibility over the obstacles without damaging the tyre. Higher pressures can be used, but the trade-off is more wheel spin and less grip. Very low pressures, around 18 psi and below, can create the risk of pushing the tyre off the bead of the rim and therefore, 20 psi is generally an acceptable minimum low-pressure limit for most sizes. Higher pressures will be required when carrying heavy loads.

Malleability or flexibility at low speed is what you want to achieve and improve traction without spinning your tyres and often shredding or chipping the tyres. Lowering tyre pressures will increase the size of your tyre's footprint, which spreads longitudinally along the tyre, which is what you are trying to achieve for maximum traction.

Ever noticed how easy a balloon pops at higher pressures when it hits something, but when the balloon has low pressures, it's harder to damage or pop? Same with tyres on rocks in most slow situations. Sidewall damage can be reduced by careful wheel placement, reducing your speed, and having the right tyre pressure.

saltydavenport-mud

TYRE PRESSURE GUIDE FOR DIFFERENT TERRAINS

MUD 22-28 PSI*

This depends on what sort of mud, the steepness of the slope and what sort of base you have under the mud. You may not even need to lower your pressures. If it's thick mud, with a loose, deep base, lower pressures and less wheel spin is best, but you will need to maintain momentum. If the mud is watery and has a solid base, you can maintain momentum but never drive fast as you can lose control of the steering, damage engine components and the environment. Mud is the medium where you want enough momentum while maintaining traction without losing steering control and causing minimal damage to the track for others behind you or in the future.





Distance Book

Distances to towns and localities in Western Australia

EDITION • 13



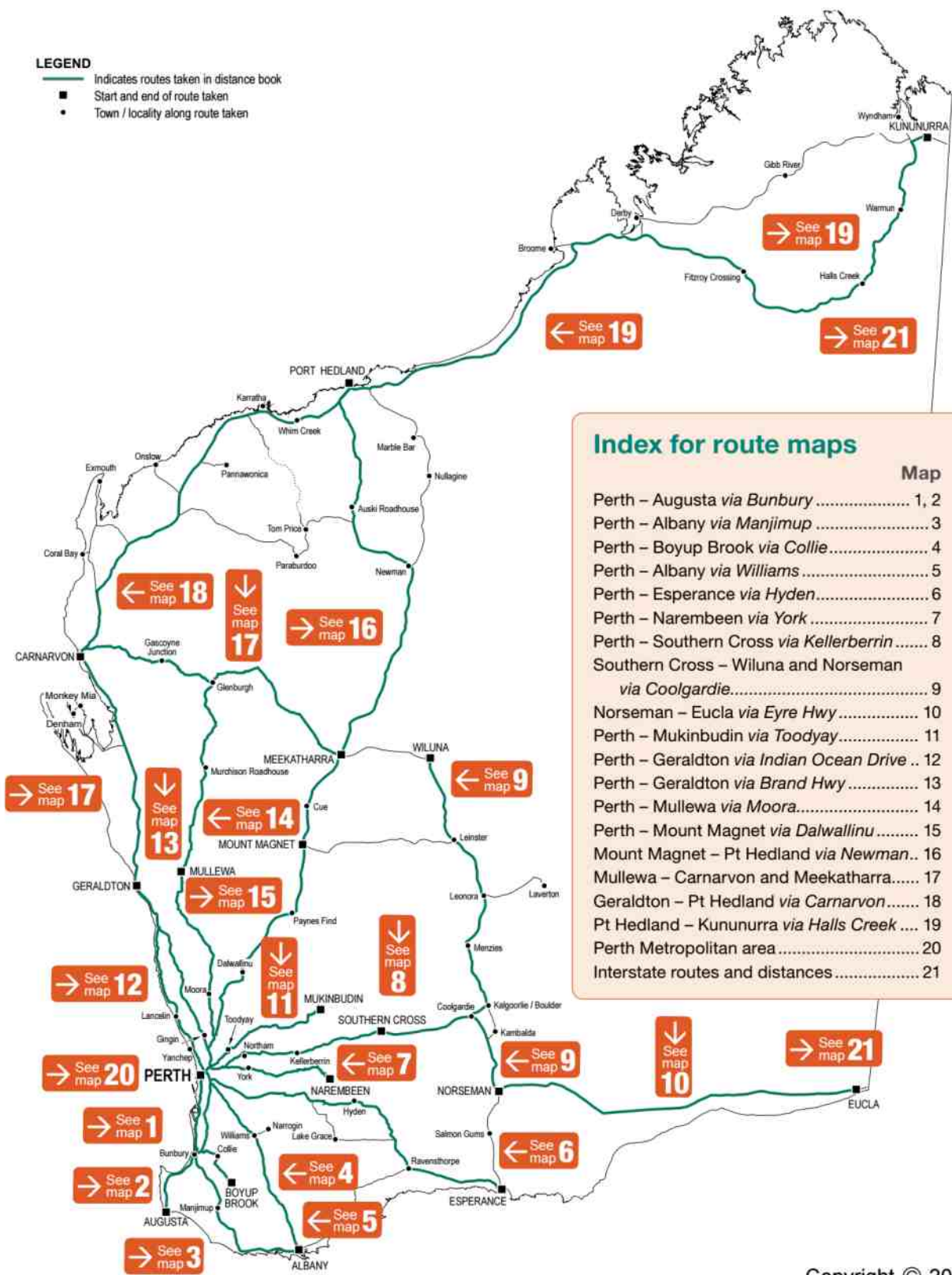


MAP INDEX

ROUTE MAPS

LEGEND

- Indicates routes taken in distance book
- Start and end of route taken
- Town / locality along route taken



Index for route maps

	Map
Perth – Augusta via Bunbury	1, 2
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Disclaimer: Every effort has been made to ensure the accuracy of information contained in this book. Distances in this book are rounded up or down for ease of reading and totals should be used as a guide only. Some information on local or interstate roads may have been obtained from sources other than Main Roads Western Australia. Main Roads and the state do not give any warranty or guarantee, take any responsibility, or accept any liability (including without limitation, liability in negligence) arising from or connected to any errors or omission in this book. Main Roads and the state accept no responsibility and disclaim all liability for any loss, damage or costs incurred as a result of any use of or reliance whether wholly or in part upon the information provided in this book. Main Roads welcomes advice of any error which may have occurred during compilation.

DISTANCE BOOK



The Distance Book (Edition 13) provides information on distances to towns and localities in Western Australia. This book is available online, see "Online references" on page 62 for relevant web site information. Grey waste disposal sites have also been added on page 64.

Information on registered public weighbridges, bridges with mass restrictions overhead bridge heights, the state route numbering system and focal point markers included.

Every effort has been made to ensure the accuracy of information provided in this book. Main Roads welcomes advice of any error which may have occurred during compilation. Length variations are liable to occur from time to time due to road deviations, relocations and construction works.

The straight line diagrams and route maps if followed, provide effective routes between locations but not necessarily the shortest distance to the towns and localities in Western Australia. Refer to individual distances between towns and localities when calculating differing routes.

Information on some local and interstate roads have been obtained from sources outside of Main Roads and are issued as a guide only.

Stephen Troughton
Managing Director of Main Roads

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LEGEND

STRAIGHT LINE DIAGRAMS AND ROUTE MAPS

What is a straight line diagram?

The diagram is an indicative straight line of a green route and provides travellers with another tool for trip planning. The main features are the easier to read distances from the origin and the road names at each turn off.

What is a route map?

The route map identifies a single main route that leads directly to towns and localities in Western Australia, providing distances along the route at intersecting roads. In most cases these roads are constructed to a higher standard and are maintained by Main Roads Western Australia, meaning that travel on these routes can be completed at a higher safe travel speed.

Start and end of displayed route

- **PERTH**  Route origin: Start point for all displayed routes
- **AUGUSTA**  Route destination: End point for shown route on associated map

Local Government centres, towns and localities

- **MANDURAH** Local Government (LG) centre access via shown route: Route displayed by green line
- **Armadale** Other LG centre
- **Yunderup** Other town/minor town/locality/roadhouse

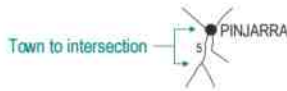
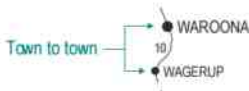
Boxed distances

-  **30** Black distance box: Distance to town/minor town accessed via shown route
-  **195** Green 'Turn off' distance box: Appears along route displaying the turn off distance to LG centres, towns and localities

Other

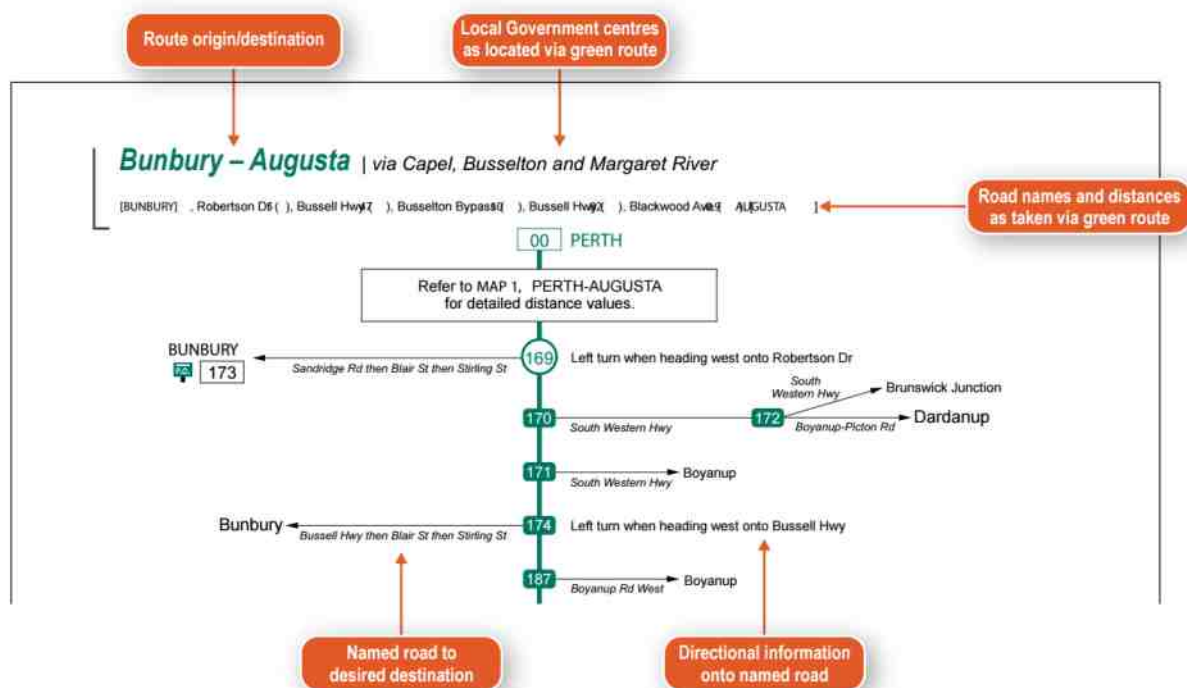
-  **P.O.** Post office
-  **1** Route numbering system: See pages 4 and 5 for more detail
-  **177** Rotary: Appears on straight line diagrams and route maps showing distance from origin

Road distance (km)

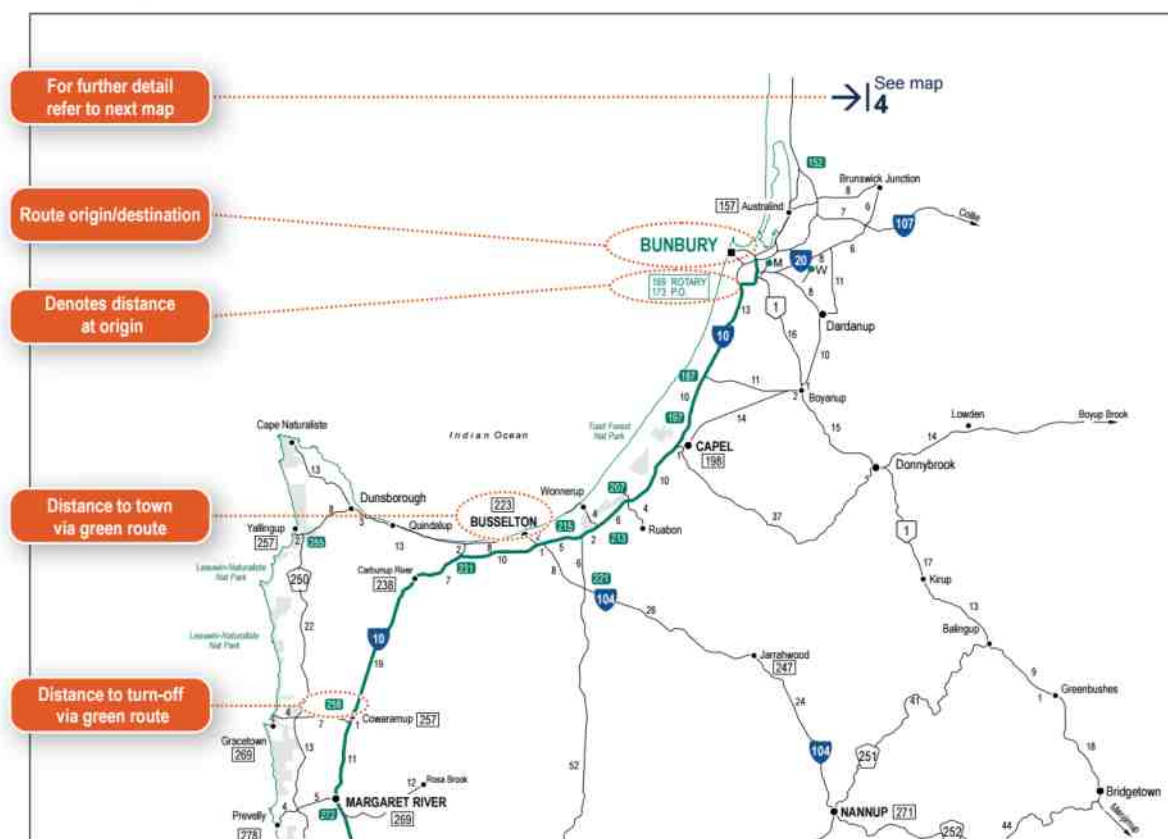


Please note: Every effort has been made to ensure the accuracy of information. Main Roads welcomes advice of any error which may have occurred during compilation. Information on some local and interstate roads have been obtained from sources outside of Main Roads and are issued as a guide only.

Straight line diagrams



Route maps





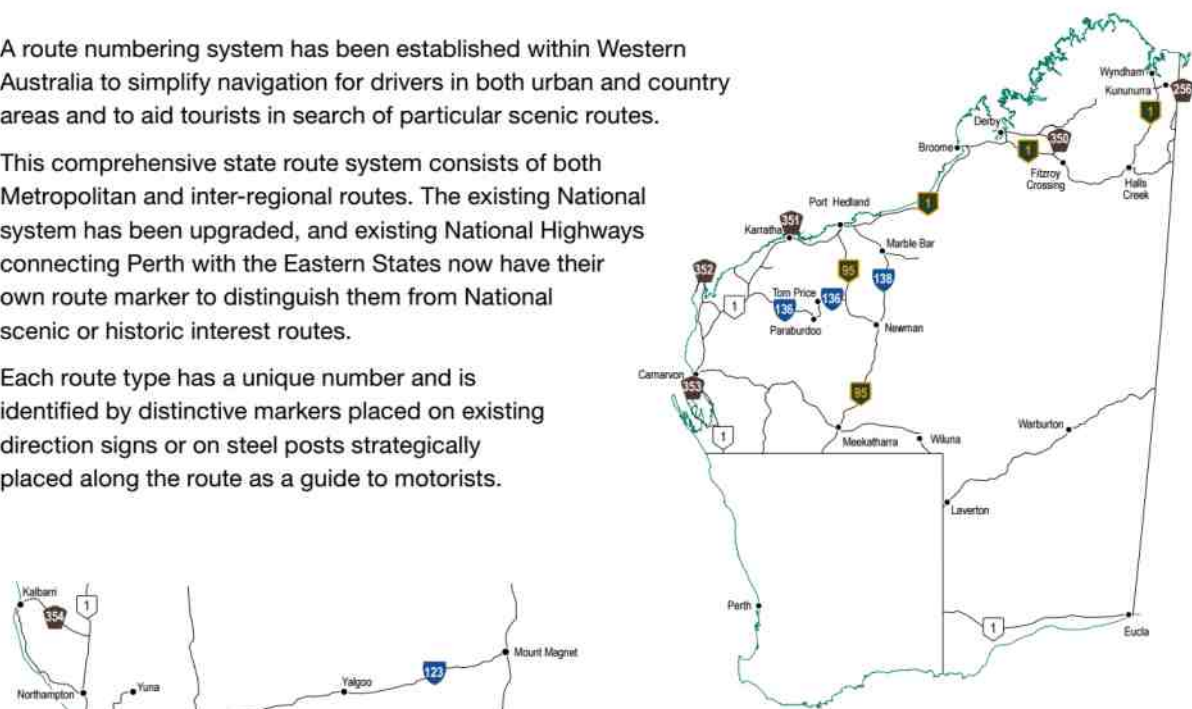
ROUTE NUMBERING SYSTEM

IN WESTERN AUSTRALIA – REGIONAL AREAS

A route numbering system has been established within Western Australia to simplify navigation for drivers in both urban and country areas and to aid tourists in search of particular scenic routes.

This comprehensive state route system consists of both Metropolitan and inter-regional routes. The existing National system has been upgraded, and existing National Highways connecting Perth with the Eastern States now have their own route marker to distinguish them from National scenic or historic interest routes.

Each route type has a unique number and is identified by distinctive markers placed on existing direction signs or on steel posts strategically placed along the route as a guide to motorists.



Route types

National highway The green and gold route markers indicate routes which are part of the National Highway system. They indicate the most direct routes between Perth-Adelaide and Perth-Darwin.	State route The white on blue shields indicate main urban and inter-regional routes. They are the signs which will most commonly be seen in urban areas.
National route The black on white markers indicate those sections of Route 1 around Australia which are not part of the National Highway system.	State tourist drive The white on brown tourist drive markers denote roads through areas of significant scenic or historic interests.

SEE PAGE 3 MAP

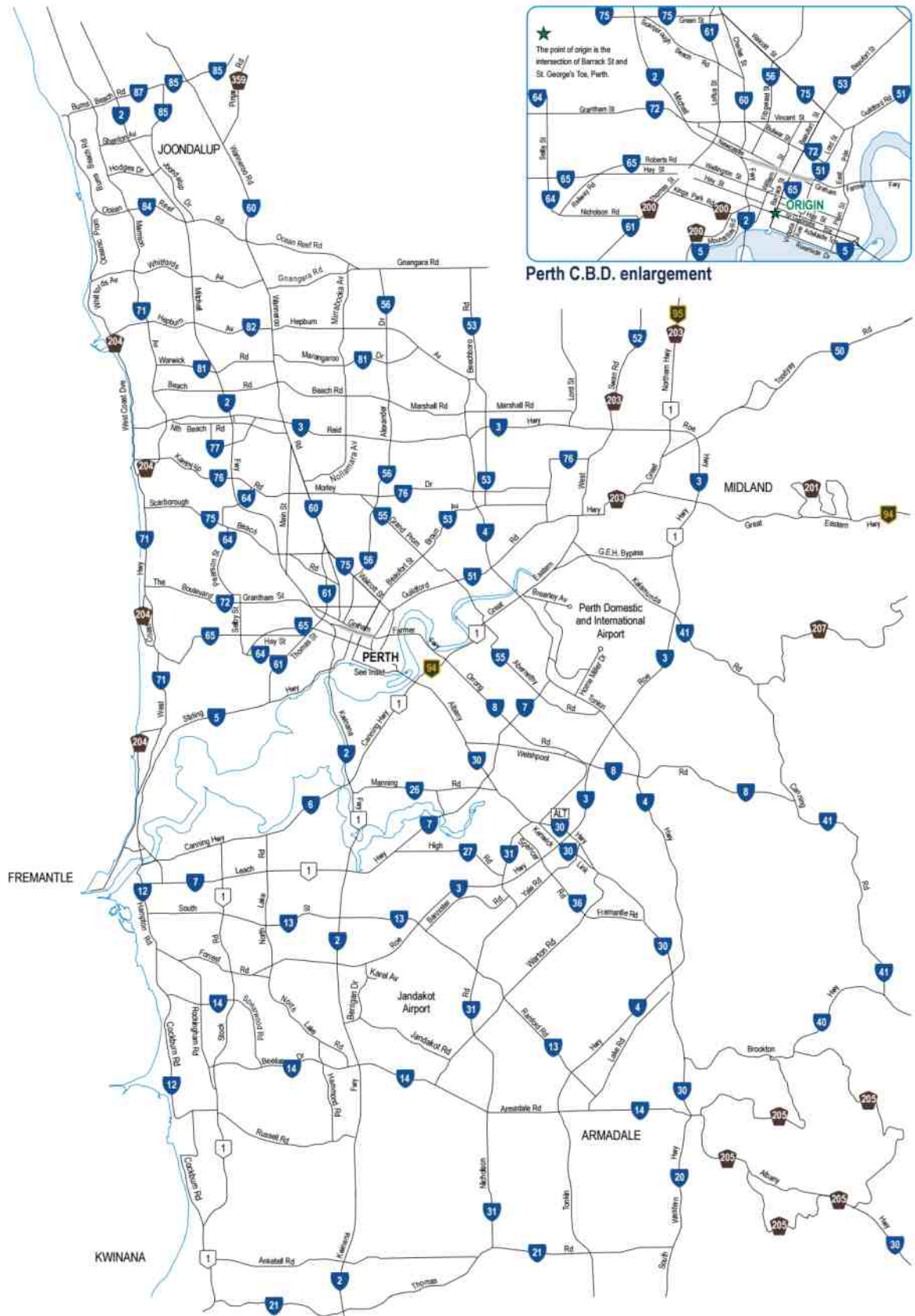
LEGEND

- Future road
- Town/locality



ROUTE NUMBERING SYSTEM

IN WESTERN AUSTRALIA – METROPOLITAN AREA



TRAVEL INFORMATION

DRIVER AND GENERAL INFORMATION

Rest areas in Western Australia

Driving while fatigued is a major cause of more than 30% of all crashes. When taking a long trip it is important to plan ahead to ensure that you arrive safely without pushing yourself or your family.

Do not drive tired

Main Roads produces a guide listing rest areas and amenities available in WA. This guide, used in conjunction with the Distance Book, enables drivers to plan their breaks effectively to help reduce fatigue. (N.B. Rest areas ARE NOT intended for camping. Overnight stays are only permitted at clearly marked stops).

Rest area brochures are available from any Main Roads office or online. See "Online References" page 62 of this book.

Stop, revive, survive

General travel tips

- Allow enough time for breaks in your journey, plan your stops and rest. Take a ten minute break every two hours and a longer break every four hours.
- Start early in the day when you are well rested and get plenty of sleep before you set off.
- Avoid driving in the very early hours of the morning when you would normally be asleep.
- Avoid consumption of alcohol before and during the trip.
- Stop if you feel tired. Watch out for symptoms like boredom, restlessness, aches and pains, sore eyes or drowsiness.

Have a safe journey!

FREE coffee for driver

Free coffee for driver is a road safety initiative involving over 100 roadhouses across Western Australia. Stop at your nearest roadhouse displaying a sign and let the driver of the vehicle have a break and free coffee or tea. This service is donated by each roadhouse to help you and your passengers reach your destination alive and well. This invitation is extended to drivers who are on a long journey of two hours or more. There is a limit of one cup per vehicle per stop.

Avoid fatigue

Roads with permits

Travelling on roads such as the Great Central Road and some forestry roads require permits. Roads with permits are often patrolled and fines may result if visitors have not obtained a permit. Permits are essential for travel on Aboriginal lands in Western Australia. When travelling through Aboriginal lands it is prohibited to divert off the main road. For Travelling Permits on Aboriginal lands refer to "Online References" page 62 of this book.

Breakdown and emergency contacts

Breakdown assistance

Nationwide breakdown assistance	131 111
Royal Automobile Club (RAC) Western Australia	131 703

Police, Ambulance and Fire

Life threatening emergencies only	000
Text call (TTY or modem telecommunications network user)	106

Police (24-hour)

For any type of non-emergency inquiry or incident	131 444
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Ambulance (non emergency)

St John Ambulance (eg booked ambulance transport)	131 233
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Fire/emergency

Fire, Rescue and Hazardous Materials Emergency	000
Flood, Storm and Earthquake Assistance	1300 130 039
Emergency Information Hotline	1300 657 209

Government organisations

Western Australian Local Government Assoc.	9321 5055
Dpt. of Parks and Wildlife	9219 9000
Dpt. of Environment Regulation	6467 5000

Driving on country roads

There are many driving hazards not found in the familiar urban streets most West Australians travel on. Some problems motorists may encounter include fatigue (see left), gravel roads, dust, fog, floods, bushfires and wildlife. Inexperienced country drivers should keep their speed to a sensible level and be wary of how their vehicle can handle unfamiliar terrain. Driving tasks such as cornering and overtaking can be much more hazardous on country roads.

Gravel roads

The instability caused by rough surfaces and the longer stopping distances are the two main problems associated with driving on gravel roads. Travelling at high speeds on rough gravel surfaces may make your vehicle less stable, increasing the risk of losing control. Breaking distances can increase significantly driving on gravel roads compared to tarmac roads. If you feel you are in trouble, reduce your speed gradually and do not brake suddenly.

Dust

On outback country roads, dust causes visibility issues and is a major problem for drivers judging road conditions and hazards. Also dust raised by other vehicles may effect your visibility, so adjust your speed accordingly and be careful overtaking.

Fog

Fog causes many issues similar to dust. Put your lights on and use your windscreen wipers. Do not use high beam as the light reflects back towards you. If you need to stop, pull off the road and put your hazard lights on.

Floods

Do not cross flood waters without checking carefully first. Use a stick or fence post to judge depth. If a device is not available, walk through the water carefully, if it is safe to do so. If the water depth is above waist level and the current is strong, do not enter the water on foot or in your vehicle. If road is closed by Main Roads do not attempt to cross. Please call 138 138 for the latest road condition reports.

Bushfires

If you are caught in a bushfire, stay in your car, park away from vegetation, close all windows and ventilation systems and turn the vehicle off. Cover yourself and passengers with devices such as blankets and car mats. Get down low under the dashboard or most effectively down low in the back seat of the vehicle. When the fire has passed, leave your vehicle and walk over the burnt ground. For bushfire warning information refer to "Online References" page 62 of this book.

Wildlife

Impacts with wildlife such as kangaroos and stray cattle can cause serious physical injury and damage to your vehicle. Avoid driving between dusk and early morning and please report all crashes. To assist with injured or sick animals, call Wildcare helpline on 9474 9055.

Main Roads contacts

For general enquiries and up to date information on road conditions for highways and main roads contact,

Main Roads 24 hour customer call centre..... 138 138

For up to date information on local (minor) roads please call the responsible local government office.

Other Main Roads offices

Gascoyne Region (Carnarvon)	9941 0777
Goldfields - Esperance Region (Kalgoorlie - Boulder)	9080 1400
Great Southern Region (Albany)	9892 0555
Heavy Vehicle Operations (Redcliffe - Perth)	138 486
Kimberley Region (Derby - Kununurra)	9158 4321
Mid West Region (Geraldton)	9956 1200
Pilbara Region (South Hedland)	9172 8877
South West Region (Bunbury)	9724 5600
Wheatbelt North Region (Northam)	9622 4777
Wheatbelt South Region (Narrogin)	9881 0566



DISTANCES TO TOWNS AND LOCALITIES FROM PERTH

ALPHABETICAL LIST

Note: Distances to towns and localities are accumulated measures from Perth using green routes.

Place	Map	Dist (km)	Place	Map	Dist (km)
A					
Abbotts.....	16	802	Bindoon.....	14	84
Adelaide via			Binningup.....	1	145
Port Augusta.....	21	2710	Binnu.....	18	514
Agnew.....	9	982	Bluff Knoll.....	5	425
Ajana.....	18	531	Bodallin.....	8	323
Albany, Chester Pass Rotary via			Boddington.....	5	123
Albany Hwy.....	5	406	Bolgart.....	11	124
South Coast Hwy.....	3	532	Bonnie Rock.....	11	346
Albany, P.O. via			Bonnie Vale.....	9	568
Albany Hwy.....	5	409	Boodarockin.....	8	355
South Coast Hwy.....	3	535	Bookading.....	5	240
Albion Downs.....	9	1050	Boorabbin.....	9	468
Aldersyde.....	6	171	Borden.....	5	389
Alice Springs via			Border Village Roadhouse.....	10	1442
Port Augusta.....	21	3630	Boscabel.....	5	238
Allanson.....	4	195	Boulder.....	9	596
Amery.....	11	165	Bowelling.....	5	256
Ardath.....	7	254	Bowgada.....	14	366
Argyle Diamond Mine.....	19	3082	Boxwood Hill.....	5	454
Armadales.....	20	29	Boyanup.....	3	186
Arrino.....	14	333	Boyup Brook.....	4	269
Arthur Rriver.....	5	199	Bremer Bay.....	5	516
Augusta.....	2	314	Bridgetown.....	3	260
Auski Roadhouse.....	16	1373	Brisbane via		
Austin.....	16	625	Broken Hill.....	21	4730
Australind.....	1	157	Broad Arrow.....	9	634
B					
Baandee.....	8	229	Brookton.....	6	137
Badjebup.....	5	329	Broome via		
Badgingarra.....	13	209	Great Northern Hwy.....	19	2230
Badjaling.....	7	178	North West Coastal Hwy.....	19	2357
Bakers Hill.....	8	73	Broomehill.....	5	314
Baladjie.....	8	367	Bruce Rock.....	7	243
Balbarrup.....	3	300	Brunswick Junction.....	4	160
Balingup.....	3	233	Bullabulling.....	9	528
Balla Balla.....	18	1665	Bullara.....	18	1177
Balladonia Roadhouse.....	10	911	Bullaring.....	6	232
Ballidu.....	15	217	Bullfinch via		
Bamboo.....	16	1545	Southern Cross.....	8	405
Bannister.....	5	107	Bullsbrook.....	13	46
Bardoc.....	9	647	Bunbury, P.O.	1	173
Beacon.....	11	316	Bunbury, Eelup Rotary.....	1	169
Beagle Bay.....	19	2340	Bungulla.....	8	191
Beechina.....	8	53	Bunjil.....	14	326
Bejoording.....	11	110	Bunketch.....	11	250
Belka.....	9	261	Buntine.....	15	288
Bencubbin.....	11	273	Burakin.....	11	241
Bendering.....	6	284	Burekup.....	4	167
Benger.....	4	151	Burns Beach.....	12	35
Beverley.....	7	129	Burracoppin.....	8	283
Billabong Roadhouse.....	18	657	Burru Peninsula, Gas Complex.....	18	1549
Bindi Bindi.....	15	187	Burtville.....	9	984
			Busselton.....	21	223
			Byford.....	4	37
			Byro.....	17	758



Place	Map	Dist (km)
C		
Cadoux.....	11	211
Caiguna Roadhouse.....	10	1092
Calingiri	15	143
Camballin	19	2409
Canberra via		
Adelaide	21	3880
Canna	14	413
Cape Cuvier	18	997
Cape Lambert	18	1582
Cape Leeuwin	2	322
Cape Naturaliste.....	2	260
Capel	2	198
Capricorn Roadhouse.....	16	1172
Carbunup River	2	238
Carnamah.....	14	293
Carnarvon.....	18	904
Carnegie Station	9	1477
Caron.....	14	335
Carrabin.....	8	302
Cascade	6	667
Cataby	13	164
Cervantes	12	203
Chidlow.....	7	46
Clackline.....	8	80
Cleary	11	292
Cobra via		
Mullewa/Glenburgh.....	17	1038
Cocklebidy Roadhouse.....	10	1157
Cold Harbour.....	7	98
Collie.....	4	202
Collie Burn.....	4	208
Condingup.....	6	782
Cookernup.....	4	132
Coolgardie.....	9	556
Coolimba.....	12	276
Coolup.....	4	100
Coomalbidgup.....	6	661
Coorow	14	266
Coral Bay.....	18	1132
Corinthia.....	8	386
Corrigin.....	6	229
Cosmo Newbery	9	1036
Cowalla via		
Muchea	13	151
Cowaramup.....	2	257
Cowcowing.....	11	215
Cranbrook	5	322
Crossman.....	5	120
Crystal Springs.....	3	401
Cuballing	6	193
Cue	16	651

Place	Map	Dist (km)
Cunderdin.....	8	157
Cuthbert	3	526
D		
Dalaroo	14	182
Dalwallinu	15	253
Dalyup	6	683
Dampier.....	18	1541
Dandaragan.....	13	170
Dangin	7	156
Dardanup.....	4	183
Darkan	5	201
Darwin via		
Great Northern Hwy.....	21	4040
Denham	18	834
Denmark via		
Albany Hwy	5	414
South Western Hwy	3	481
Derby via		
Great Northern Hwy.....	19	2383
North West Coastal Hwy	19	2510
Dewars Pool	11	98
Dinninup	5	279
Docker River (NT) via		
Laverton	9	1848
Dongara via		
Brand Hwy	13	362
Indian Ocean Drive.....	12	355
Donnybrook.....	3	203
Doodenanning.....	7	138
Doodlakine	8	218
Doon Doon Roadhouse.....	19	3099
Dowak	9	808
Dowerin	11	157
Drysdale	19	2843
Dudinin via		
Wickepin.....	6	272
Dumbleyung	5	268
Dundas	9	746
Dunsborough	2	247
Duranillin.....	5	253
Dwarda	5	129
Dwellingup.....	4	96
E		
East Brook.....	3	319
Ejanding.....	11	182
Elabbin	11	275
Elleker	3	521
El Questro.....	19	3218
Emu Hill	7	286
Eneabba	13	282
Eradu	13	471
Erikin.....	7	215



Place	Map	Dist (km)
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Esperance	6	719
Eucla.....	10	1430
Exmouth.....	18	1261

F

Fitzgerald.....	6	504
Fitzroy Crossing via Great Northern Hwy.....	19	2558
Forrest.....	10	1453
Forrestdale.....	1	30
Fortescue Roadhouse.....	18	1425
Frankland River.....	5	364
Fremantle.....	20	18

G

Gabanintha.....	16	761
Galena Bridge.....	18	539
Garratt.....	8	361
Gascoyne Junction via Carnarvon.....	18	1070
Mullewa.....	17	955
Gascoyne River.....	18	908
Geikie George National Park.....	19	2579
Geraldton via Brand Hwy.....	13	427
Indian Ocean Drive.....	12	419
Gibb River.....	19	2744
Gibson via Hyden/Esperance.....	6	740
Gidgegannup.....	11	43
Giles - Meteorological Station.....	9	1746
Gingin.....	13	87
Giralia.....	18	1200
Gledhow.....	3	527
Glen Forrest.....	7	28
Glenburgh.....	17	844
Gnowangerup.....	5	355
Goomalling.....	11	133
Goongarrie.....	9	684
Gosnells.....	20	21
Gracetown.....	2	269
Grass Patch via Hyden/Esperance.....	6	793
Grass Valley.....	14	111
Greenbushes.....	8	243
Green Head.....	3	258
Greenhills.....	12	119
Greenough via Brand Hwy.....	13	403
Great Northern Hwy.....	12	2846
Gregory.....	18	523
Grey.....	12	180
Guilderton.....	12	92
Gullewa.....	14	446

Place	Map	Dist (km)
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Gunyidi.....	14	236
Gutha.....	14	403
Gwambygine.....	7	104
Gwindinup.....	3	191

H

Halls Creek via Great Northern Hwy.....	19	2846
Hamel.....	4	115
Hamelin Bay.....	2	305
Hamelin Pool.....	18	738
Harrismith.....	5	258
Harvey.....	4	141
Hester.....	3	257
Higginsville.....	9	665
Highbury.....	5	208
Hines Hill.....	8	240
Holt Rock.....	6	405
Home Valley via Gibb River Rd.....	19	2958
Great Northern Hwy.....	19	3235
Hopetoun.....	6	583
Horrocks.....	18	499
Horseshoe.....	16	907
Howatharra.....	18	455
Hyden/Wave Rock.....	6	339

I

Illawong.....	12	296
Imintji.....	19	2598
Irwin via Brand Hwy.....	13	364
Indian Ocean Drive.....	12	357
Israelite Bay.....	6	917

J

Jardee.....	3	300
Jarrahdale.....	4	54
Jarrahwood.....	2	247
Jerramungup.....	5	449
Jingalup.....	5	278
Jitarning via Wickepin.....	6	260
Jubuk.....	6	211
Jurien Bay.....	12	224

K

Kalannie.....	11	260
Kalbarri.....	18	592
Kalgan.....	5	415
Kalgoorlie.....	9	595
Kalumburu.....	19	3047
Kambalda.....	9	631
Karlgarin.....	6	321



Place	Map	Dist (km)
Karnup.....	1	49
Karonie.....	9	700
Karratha.....	18	1538
Karratha Roadhouse.....	18	1522
Karridale.....	2	298
Katanning.....	5	295
Kathleen.....	9	1017
Kauring.....	7	124
Kellerberrin.....	8	203
Kelmscott.....	6	25
Kendenup.....	5	345
Keysbrook.....	4	62
Kimberley Downs.....	19	2455
King River.....	5	406
Kintore.....	9	600
Kirup.....	3	220
Kojonup.....	5	255
Kokardine.....	11	221
Kondinin.....	6	278
Kondut.....	15	205
Konnongorring.....	11	162
Koojan.....	14	156
Kookynie.....	9	794
Koolanooka.....	14	378
Koolyanobbing.....	8	424
Koorda.....	11	237
Korrellocking.....	11	203
Kukerin.....	5	309
Kulin.....	6	284
Kulja.....	11	253
Kumarina Roadhouse.....	16	1022
Kundip.....	6	553
Kununoppin.....	11	248
Kununurra via Great Northern Hwy.....	19	3206
Kurrajong.....	9	862
Kwinana.....	1	38
Kwolyin.....	6	203
L		
Lake Argyle.....	19	3276
Lake Biddy via Lake Grace.....	6	422
Lake Brown.....	11	307
Lake Camm.....	6	444
Lake Clifton.....	1	108
Lake Grace via Kulin.....	6	355
Lake King via Kondinin/Hyden.....	6	463
Lake King via Kulin/Lake Grace.....	6	471
Lancelin.....	12	130
Landor.....	17	950
Latham.....	14	311
Laverton.....	9	955

Place	Map	Dist (km)
Lawlers.....	9	991
Learmonth.....	18	1226
Ledge Point.....	12	118
Leeman.....	12	266
Leinster.....	9	965
Lennonville.....	16	581
Leonora.....	9	831
Lowden.....	3	217
M		
Madura.....	10	1248
Malcolm.....	9	850
Mandurah.....	1	70
Manjimup.....	3	296
Manypeaks.....	5	434
Marbelup.....	3	518
Marble Bar.....	16	1476
Marchagee.....	14	243
Margaret River.....	2	269
Marradong.....	5	132
Marvel Loch.....	8	402
Mawson.....	7	139
Maya.....	15	301
Mayanup.....	4	283
Meckering.....	8	134
Meekatharra.....	16	765
Meenaar.....	8	121
Melbourne via Adelaide.....	21	3460
Menzies.....	9	726
Merredin.....	8	260
Midland.....	20	18
Milgun.....	16	951
Miling.....	15	204
Millstream.....	18	1710
Mingenew.....	14	368
Minilya Roadhouse.....	18	1035
Mogumber.....	14	128
Mollerin.....	11	278
Monkey Mia.....	18	859
Moodiarup.....	5	236
Moora.....	14	174
Moorine Rock.....	8	348
Morawa.....	14	371
Mount Augustus via Mullewa/Landor.....	17	1050
Mount Barker.....	5	359
Mount Barnett.....	19	2677
Mount Hardey.....	7	107
Mount Helena.....	7	40
Mount House.....	19	2632
Mount Ida.....	9	832
Mount Keith Village.....	9	1044
Mount Magnet.....	15	571
Mount Morgans.....	9	916



Place	Map	Dist (km)
Mount Palmer.....	9	414
Mount Stuart.....	18	1330
Mount Walker.....	7	323
Muchea.....	13	60
Muja.....	4	222
Muja Power Station.....	4	222
Mukinbudin.....	11	293
Mulgun.....	16	988
Mullalyup.....	3	226
Mullewa via		
Moora/Mingenew.....	14	452
Geraldton.....	18	522
Mulline.....	9	781
Mumballup.....	4	223
Mundaring.....	7	34
Mundijong.....	4	50
Mundrabilla Roadhouse.....	10	1364
Mungilup.....	4	208
Munglinup.....	6	614
Muntadgin.....	7	293
Muradup.....	5	273
Murchison.....	17	654
Murchison Roadhouse via		
Mullewa.....	17	654
Muresk.....	8	99
Murrin Murrin.....	9	883
Myalup.....	1	141

N

Nabawa.....	18	466
Nanarup.....	5	430
Nangeenan.....	8	248
Nannine.....	16	730
Nannup.....	2	271
Nanson.....	13	458
Nanutarra Roadhouse.....	18	1263
Naraling.....	13	482
Narembeen.....	7	281
Narngulu via		
Brand Hwy.....	13	423
Indian Ocean Drive.....	12	416
Narngulu.....	13	422
Narrikup.....	5	376
Narrogin.....	5	192
Neendaling.....	5	335
Nepean.....	9	582
New Norcia.....	15	134
Newdegate via		
Lake Grace.....	6	408
Newlands.....	3	215
Newman.....	16	1186
Nicholson.....	19	3019
Noggerup.....	4	231
Noongar.....	8	334

Place	Map	Dist (km)
Nornalup.....	3	424
Norseman via		
Coolgardie.....	9	722
Esperance.....	6	920
Lake King.....	6	721
North Bannister.....	5	94
North Dandalup.....	4	71
North Greenbushes.....	3	243
North West Cape.....	18	1279
Northam.....	8	97
Northampton.....	18	477
Northcliffe via		
Pemberton.....	3	358
Northern Territory Border via		
Great Northern Hwy/Victoria Hwy.....	19	3249
Nugadong.....	15	262
Nukarni.....	8	283
Nullagine.....	16	1364
Nungarin.....	11	268
Nyabing.....	5	319

O

Ocean Beach via		
South Western Hwy.....	3	490
One Arm Point.....	19	2446
Ongerup.....	5	408
Onslow.....	18	1389
Ora Banda.....	9	636
Overlander Roadhouse.....	18	705

P

Pannawonica.....	18	1431
Pantapin.....	7	191
Paraburdoo via		
Great Northern Hwy.....	16	1517
North West Coastal Hwy.....	18	1537
Pardoo Roadhouse via		
Great Northern Hwy.....	19	1771
Parkerville.....	7	33
Paynes Find.....	15	426
Paynesville.....	15	650
Peaceful Bay.....	3	448
Peak Hill.....	16	902
Pemberton.....	3	327
Perenjori.....	14	349
Piawaning.....	15	162
Piesseville.....	5	210
Pindar.....	14	482
Pingaring.....	6	341
Pingrup.....	5	361
Pingelly.....	6	157
Pinjarra via		
Kwinana Fwy.....	4	83
South Western Hwy.....	4	87



Place	Map	Dist (km)
Pithara	15	240
Point Quobba	18	967
Point Samson	18	1581
Pootenup	5	333
Popanyinning	6	174
Porongurup	5	383
Port Augusta	21	2400
Port Denison via		
Brand Hwy	13	360
Indian Ocean Drive	12	353
Port Hedland via		
Great Northern Hwy	16	1638
North West Coastal Hwy	18	1765
Preston	3	221
Preston Beach	1	124
Prevelly	2	278
Pumphreys Bridge	5	145

Q

Quairading	6	165
Quindalup	2	244
Quindanning	4	157
Quinns Rock	11	41

R

Ravensthorpe via		
Hyden/Lake King	6	533
Ravenswood	1	75
Rawlinna	9	966
Redmond	5	399
Regans Ford	13	134
Road Train Assembly Areas		
Apple St (Midland)	13	35
Bedforddale	5	37
Broome	19	2229
Carnarvon	18	903
Exmouth	18	1260
Northam	8	101
Wubin	15	272
Rockingham	1	47
Rocky Gully	5	385
Roebourne	18	1562
Roebuck Roadhouse	19	2196
Roelands	4	164
Rosa Brook	2	284
Roy Hill	16	1272
Ruabon	2	211

S

Salmon Gums via		
Norseman	9	820
Sandfire Roadhouse via		
Great Northern Hwy	19	1910
Sandstone via		
Mount Magnet	15	729
Paynes Find	15	659

Place	Map	Dist (km)
Sawyers Valley	7	37
Scaddan via		
Hyden/Esperance	6	768
Seabird	12	98
Serpentine	4	55
Shackleton	7	210
Shannon	3	349
Shay Gap via		
Great Northern Hwy/Nullagine	16	1567
South Australian Border via		
Eyre Hwy	10	1442
Shotts	4	212
Sir Samuel	9	1003
South Hedland via		
Great Northern Hwy	16	1624
North West Coastal Hwy	18	1751
South Kumminin	6	282
Southern Cross	8	370
Spencers Brook	8	96
Stoneville	7	37
Strachan	3	339
Sydney via		
Broken Hill	21	3990

T

Tambellup	5	317
Tammin	8	181
Tardun	14	427
Telfer via		
Great Northern Hwy/Nullagine	16	1737
Tenindewa	14	464
Tenterden	5	328
The Lakes	7	50
Three Springs	14	316
Tom Price via		
Great Northern Hwy	16	1458
North West Coastal Hwy	18	1555
Tonebridge	4	333
Toodyay	11	86
Toolibin	6	238
Torbay	3	515
Trayning	11	236
Tuckanarra	16	690
Tunnel Creek	19	2551
Tunney	5	294
Turkey Creek	19	3009
26° South Latitude via		
Great Northern Hwy	16	837
North West Coastal Hwy	18	752
Two Rocks	12	69

V

Varley	6	422
Vasse	2	225



Place	Map	Dist (km)
W		
WA and NT Border	19	3249
WA and SA Border	10	1442
Wadderin	7	289
Waddington	15	151
Wagerup	4	123
Wagin	5	229
Walebing	15	169
Walgoolan	8	294
Walkaway via		
Brand Hwy	13	404
Indian Ocean Drive	12	397
Walkaway	13	404
Walpole	3	414
Wandering	5	120
Wannamal	14	115
Wannoo	18	657
Warburton Community	9	1513
Warmun	19	3009
Warooka	4	112
Warrachuppin	8	342
Warralakin	8	334
Watheroo	14	214
Wedgefield via		
Great Northern Hwy	16	1625
North West Coastal Hwy	18	1752
Wedge Island	12	167
Wellington Dam	4	195
Westdale	6	93
Westonia	8	311
Wheatley	3	300
Whim Creek via		
North West Coastal Hwy	18	1647
Wialki	11	341
Wickepin	6	213
Wickham	18	1573
Widgiemooltha	9	632
Wilga	4	253
Willare Bridge Roadhouse	19	2326
William Bay via		
South Western Hwy	3	471
Williams	5	160
Wilroy	14	449
Wiluna via		
Great Northern Hwy	16	948
Kalgoorlie	9	1128
Winchester	14	282
Windarra	9	944
Windjana Gorge	19	2516
Windmill Roadhouse	13	135
Windy Harbour	3	385
Witchcliffe	2	278
Wogarl	7	281

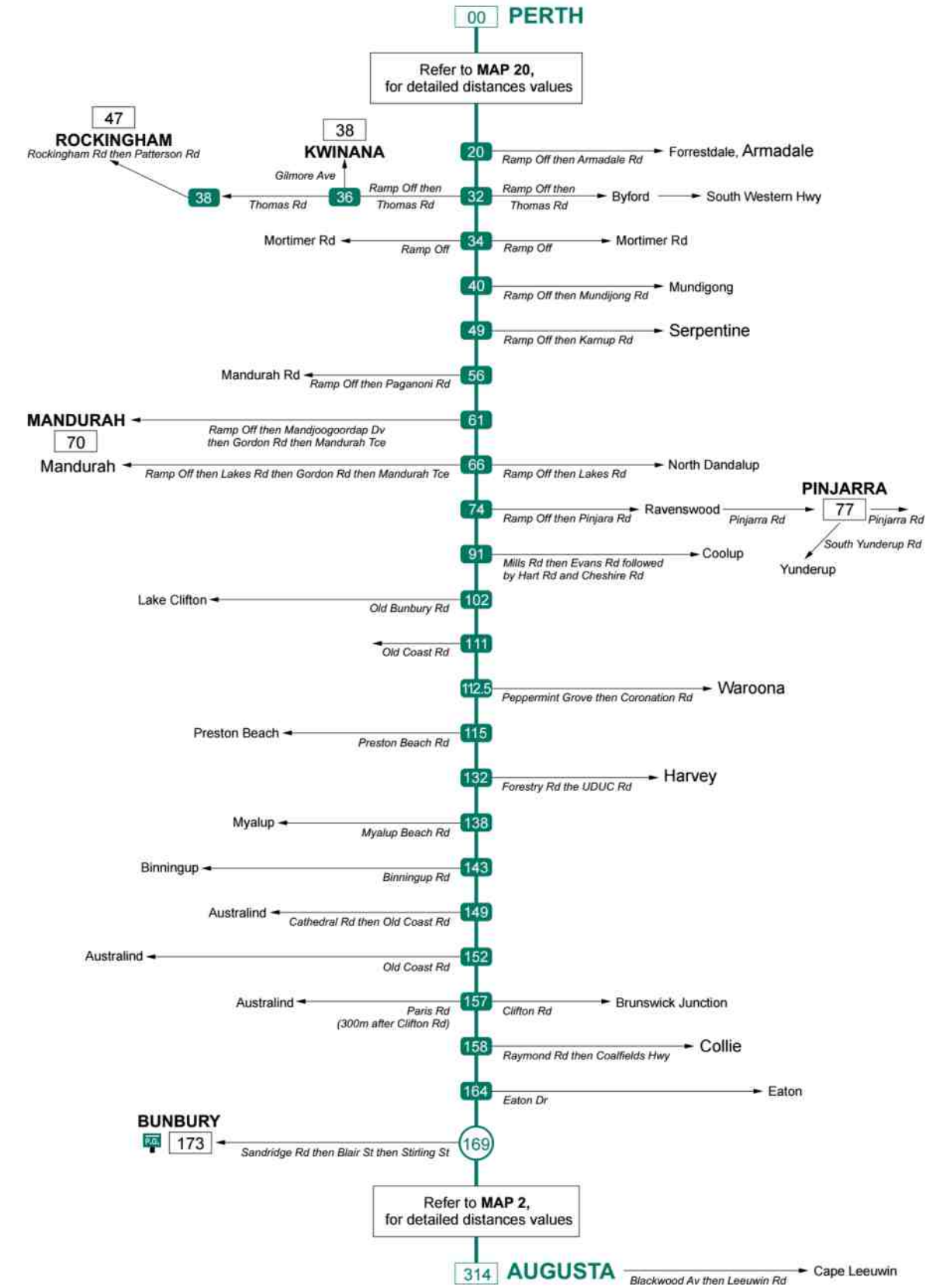
Place	Map	Dist (km)
Wokalup	4	144
Wolfe Creek Reserve	19	2970
Wongan Hills	15	182
Wonnerup	2	217
Woodanilling	5	254
Woodarra	9	974
Wooramel Roadhouse	18	780
Wooroloo	8	59
Worsley	4	189
Worsley Refinery via		
Mornington	4	175
Roelands	4	201
Wubin	15	273
Wundowie	7	27
Wyalkatchem	11	192
Wyndham via		
Great Northern Hwy	19	3216
Y		
Yalgoo via		
Morawa	14	500
Mullewa	14	572
Yallingup	2	257
Yalup Brook	4	119
Yanchep	12	60
Yanchep Beach	12	61
Yanchep Park	12	55
Yandanooka	14	348
Yanmah	3	303
Yarding	7	226
Yarloop	4	126
Yealering	6	220
Yeelirrie	16	787
Yelbeni	11	222
Yellowdine	9	403
Yerecoin	15	156
Yerilla	9	831
York	7	96
Yornup	3	272
Yoting	7	184
Youanmi	15	570
Youndegin	7	155
Youngs Siding	3	501
Yuna	18	503
Yunderup	1	82
Z		
Zanthus	9	798



PERTH – AUGUSTA

VIA MANDURAH, BUNBURY, CAPEL, BUSSELTON AND MARGARET RIVER

[PERTH], St Georges Tce (0.5), William St (0.6), Kwinana Fwy (73), Forrest Hwy (37), Old Coast Rd (41), Australind Bypass (17), Robertson Dr (5), Bussell Hwy (47), Busselton Bypass (10), Bussell Hwy (82), Blackwood Av (0.9), [AUGUSTA]

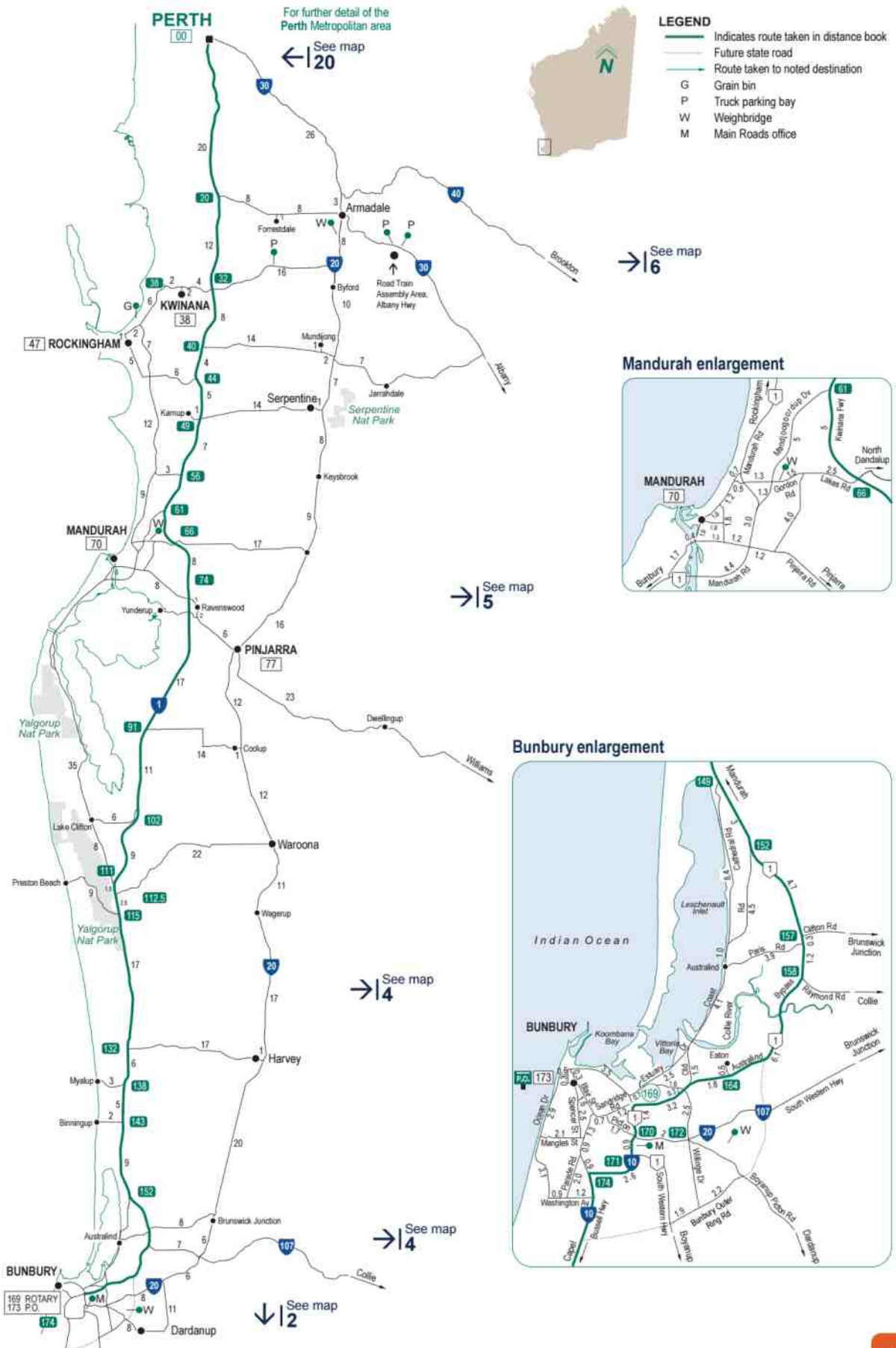


The street name on some routes may change through townsites.



PERTH - AUGUSTA

VIA MANDURAH, BUNBURY, CAPEL, BUSSELTON AND MARGARET RIVER (MAP 1 OF 2)

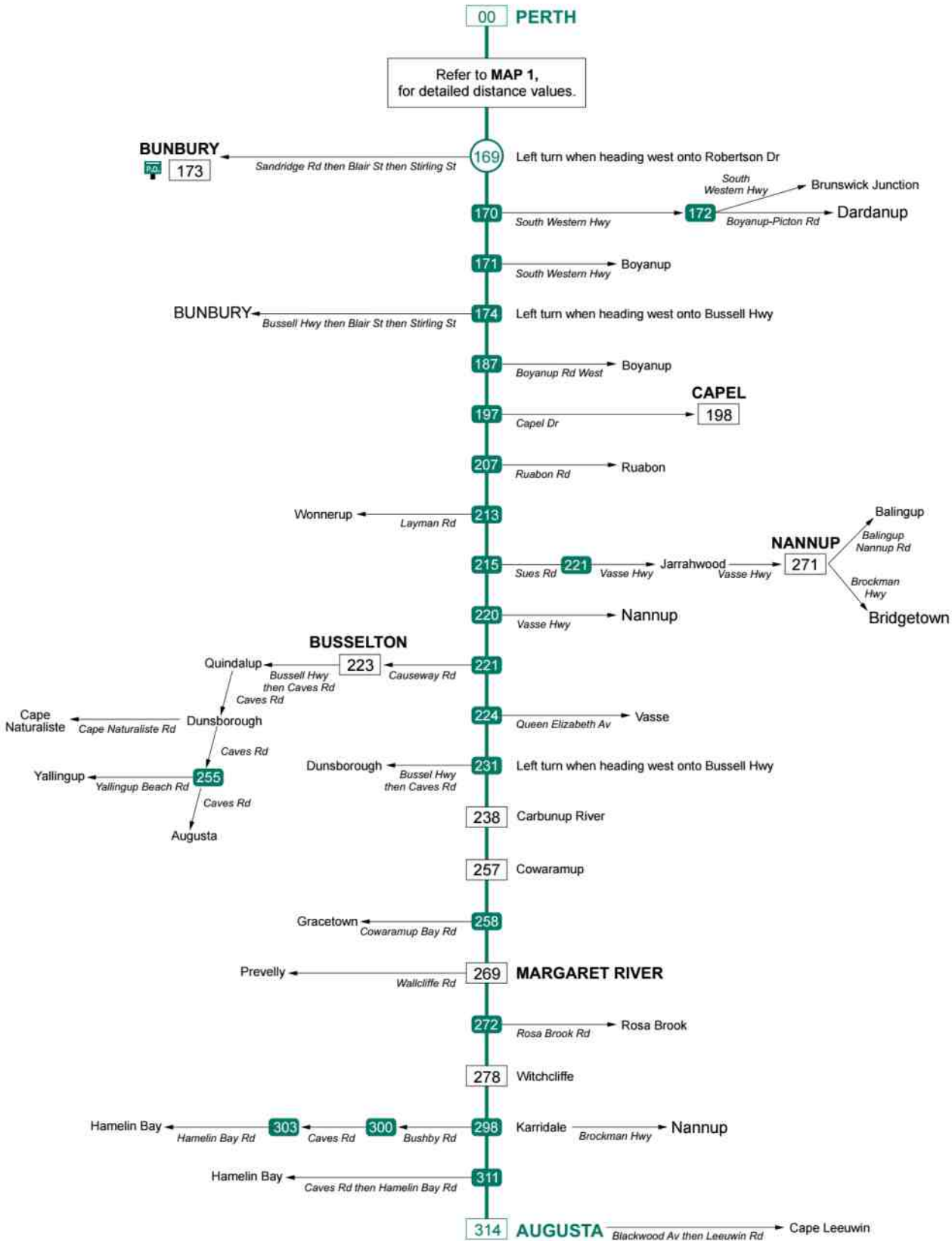




PERTH – AUGUSTA

VIA MANDURAH, BUNBURY, CAPEL, BUSSELTON AND MARGARET RIVER

[PERTH], St Georges Tce (0.5), William St (0.6), Kwinana Fwy (73), Forrest Hwy (37), Old Coast Rd (41), Australind Bypass (17), Robertson Dr (5), Bussell Hwy (47), Busselton Bypass (10), Bussell Hwy (82), Blackwood Av (0.9), [AUGUSTA]



The street name on some routes may change through townsites.



PERTH - AUGUSTA

VIA MANDURAH, BUNBURY, CAPEL, BUSSELTON AND MARGARET RIVER (MAP 2 OF 2)

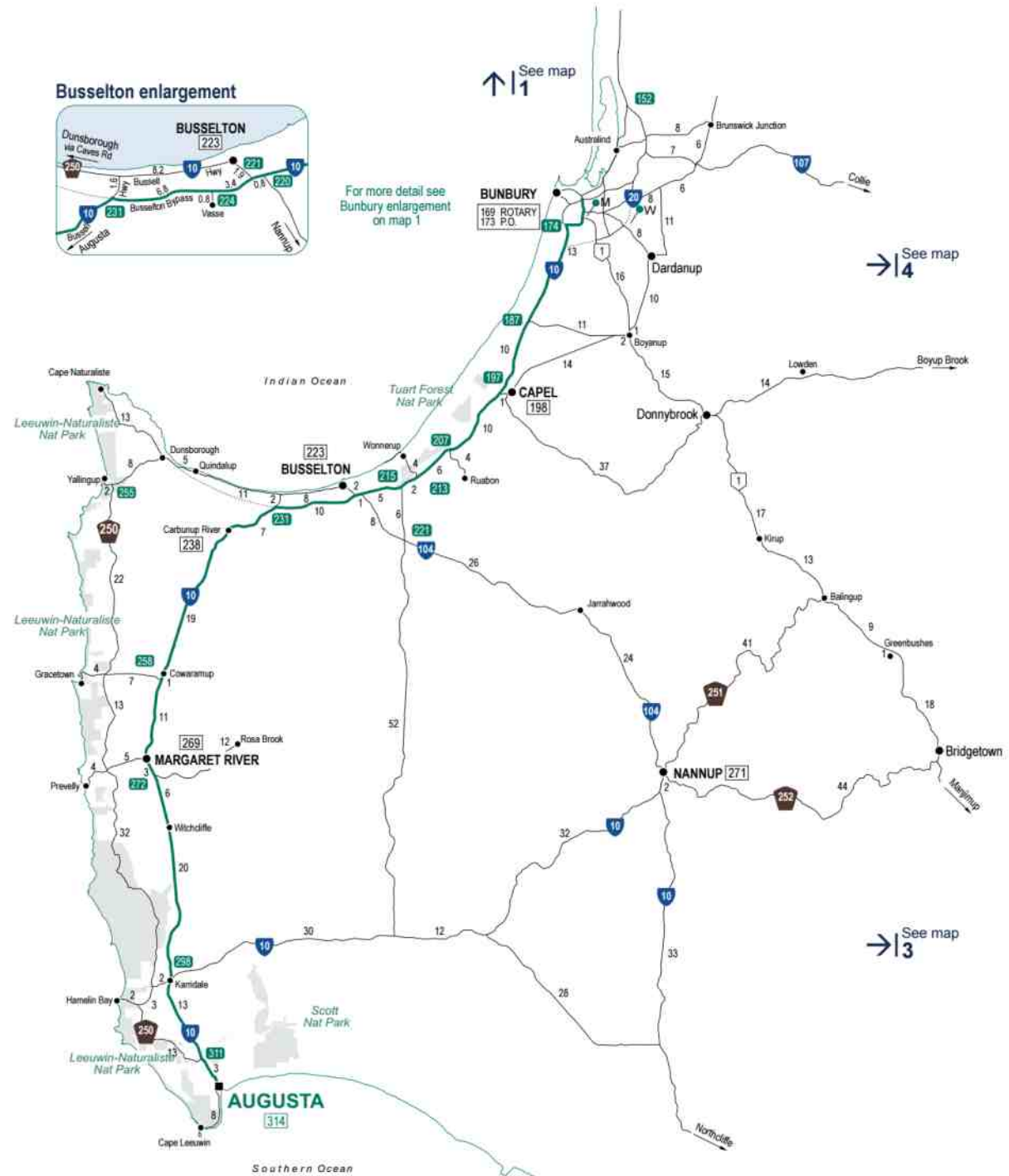


- LEGEND**
- Indicates route taken in distance book
 - Future state road
 - Route taken to noted destination
 - G Grain bin
 - P Truck parking bay
 - W Weighbridge
 - M Main Roads office

Busseton enlargement



For more detail see
Bunbury enlargement
on map 1



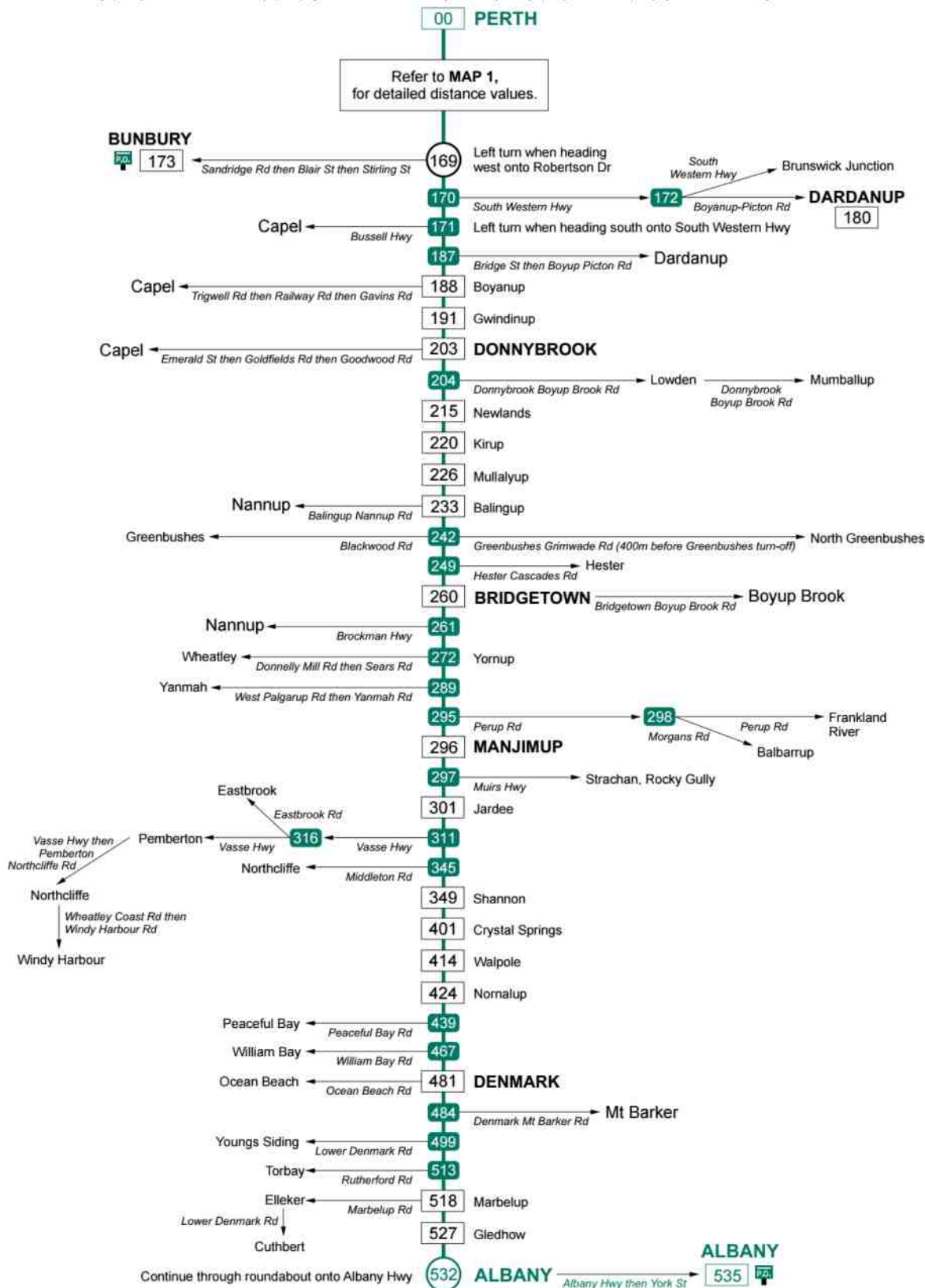
Map 2



PERTH – ALBANY

VIA BUNBURY, DONNYBROOK, BRIDGETOWN, MANJIMUP AND DENMARK

[PERTH], St Georges Tce (0.5), William St (0.6), Kwinana Fwy (42), Forrest Hwy (37), Old Coast Rd (41), Australind Bypass (17), Robertson Dr (2), South Western Hwy (243), South Coast Hwy (118), [ALBANY ROTARY], Albany Hwy (2.6), York St (0.3), [ALBANY P.O.]

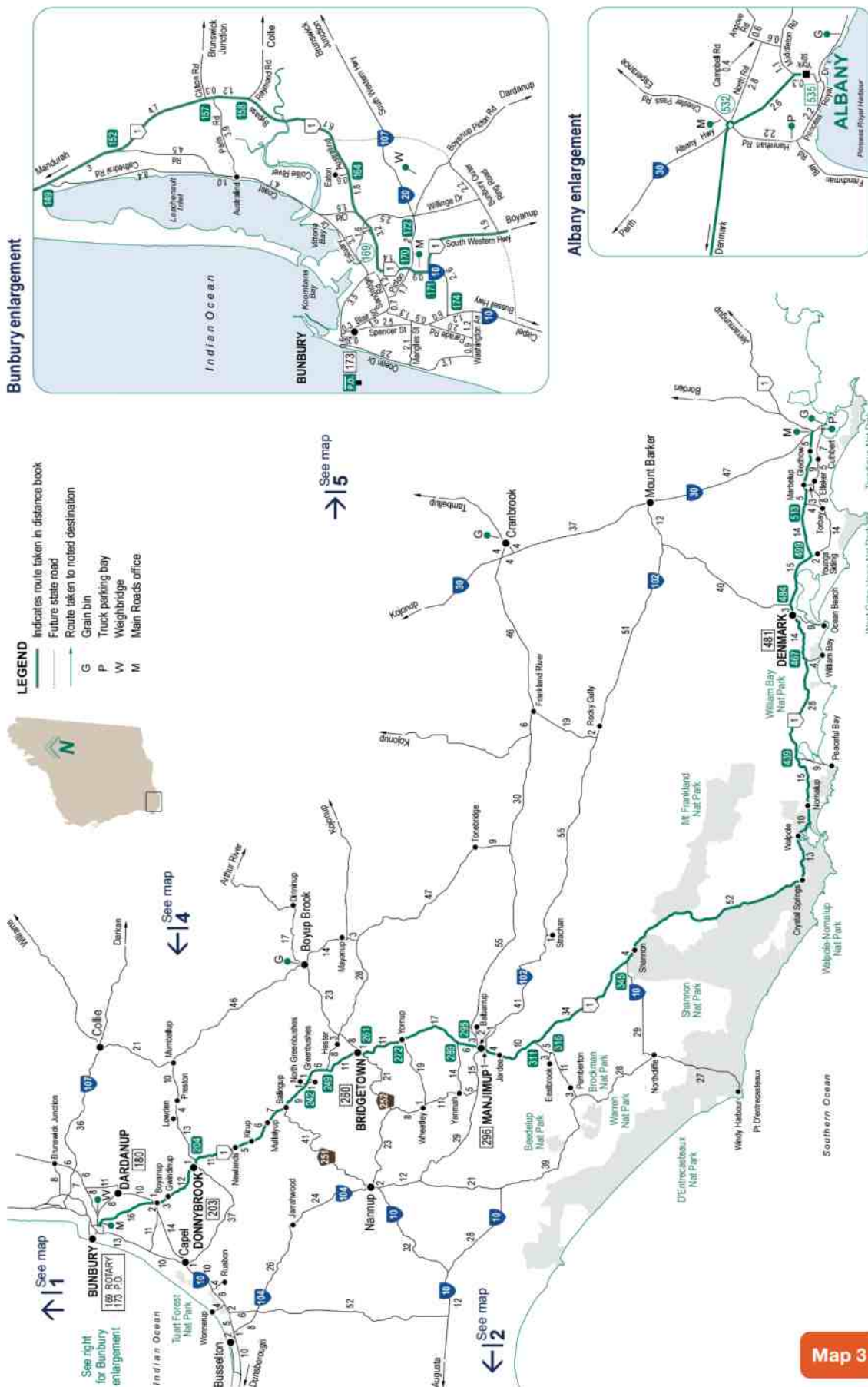


The street name on some routes may change through townsites.



PERTH - ALBANY

VIA BUNBURY, DONNYBROOK, BRIDGETOWN, MANJIMUP AND DENMARK

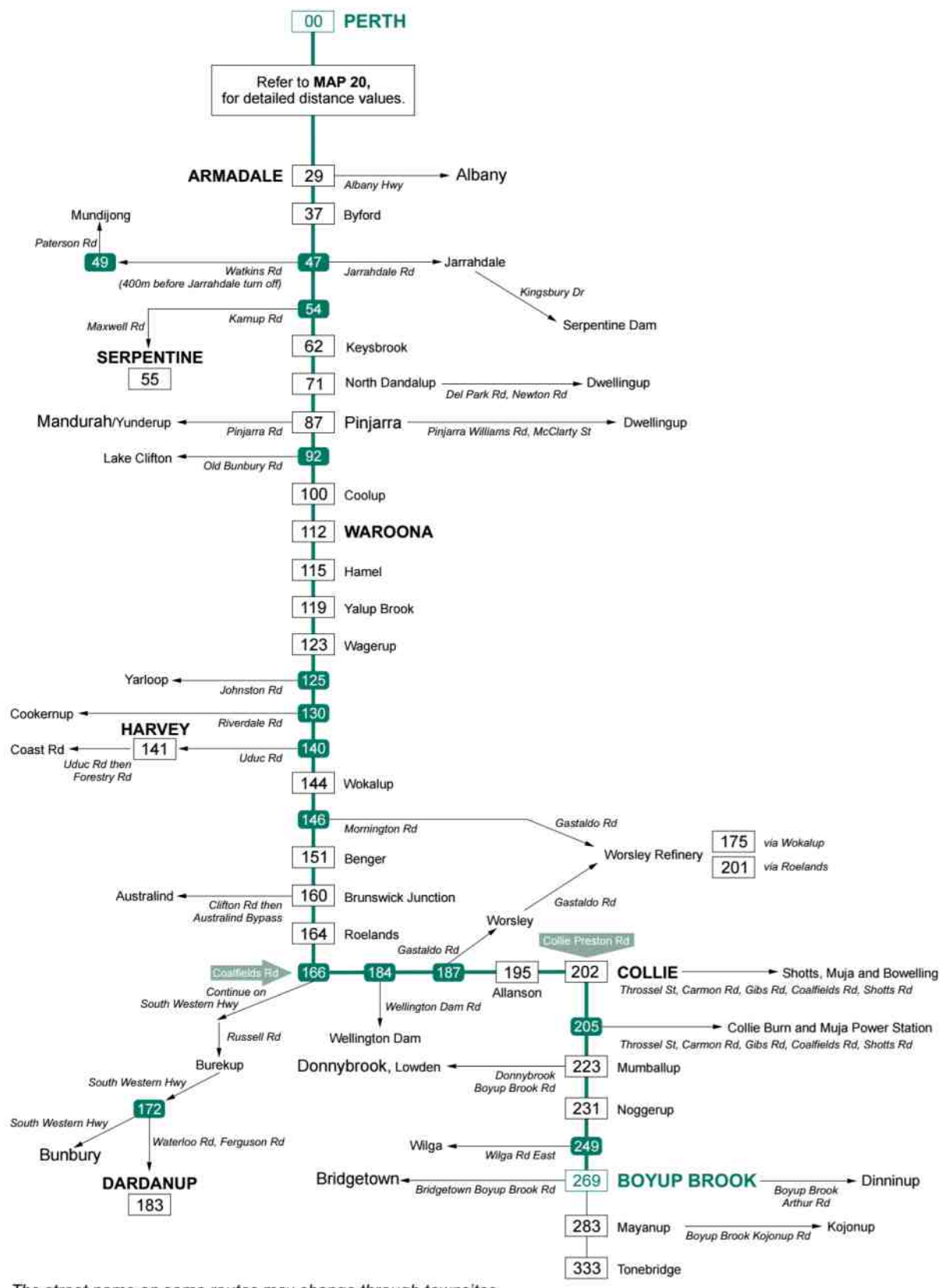




PERTH – BOYUP BROOK

VIA ARMADALE, SERPENTINE, PINJARRA, WAROONA, HARVEY AND COLLIE

[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Shepperton Rd (4), Albany Hwy (5), Kenwick Link (3), Albany Hwy (14), South Western Hwy (137), Coalfields Rd (36), Collie Preston Rd (67), [BOYUP BROOK], Boyup Brook Kojonup Rd (14), Boyup Brook Cranbrook Rd (50)

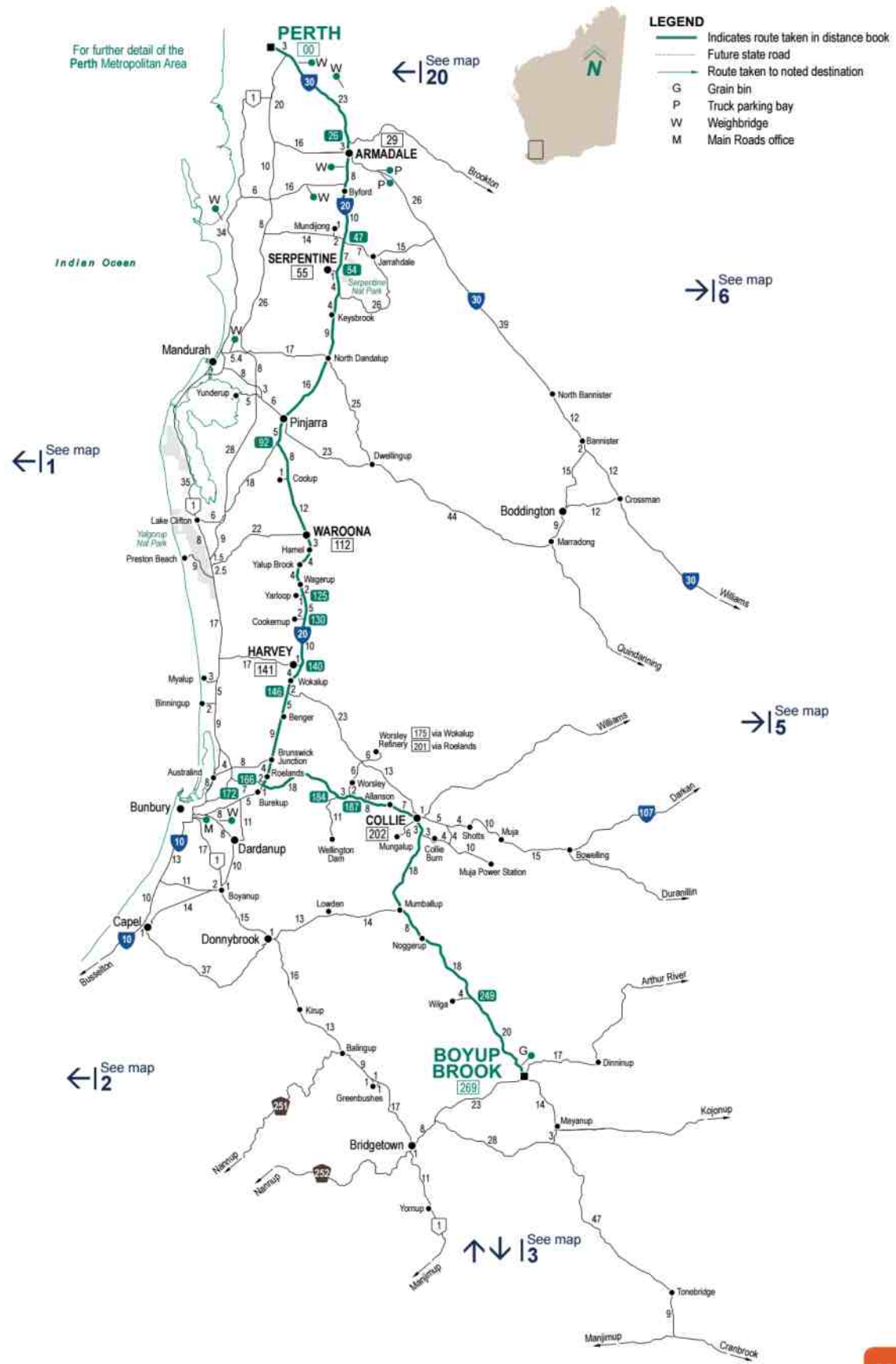


The street name on some routes may change through townsites.



PERTH – BOYUP BROOK

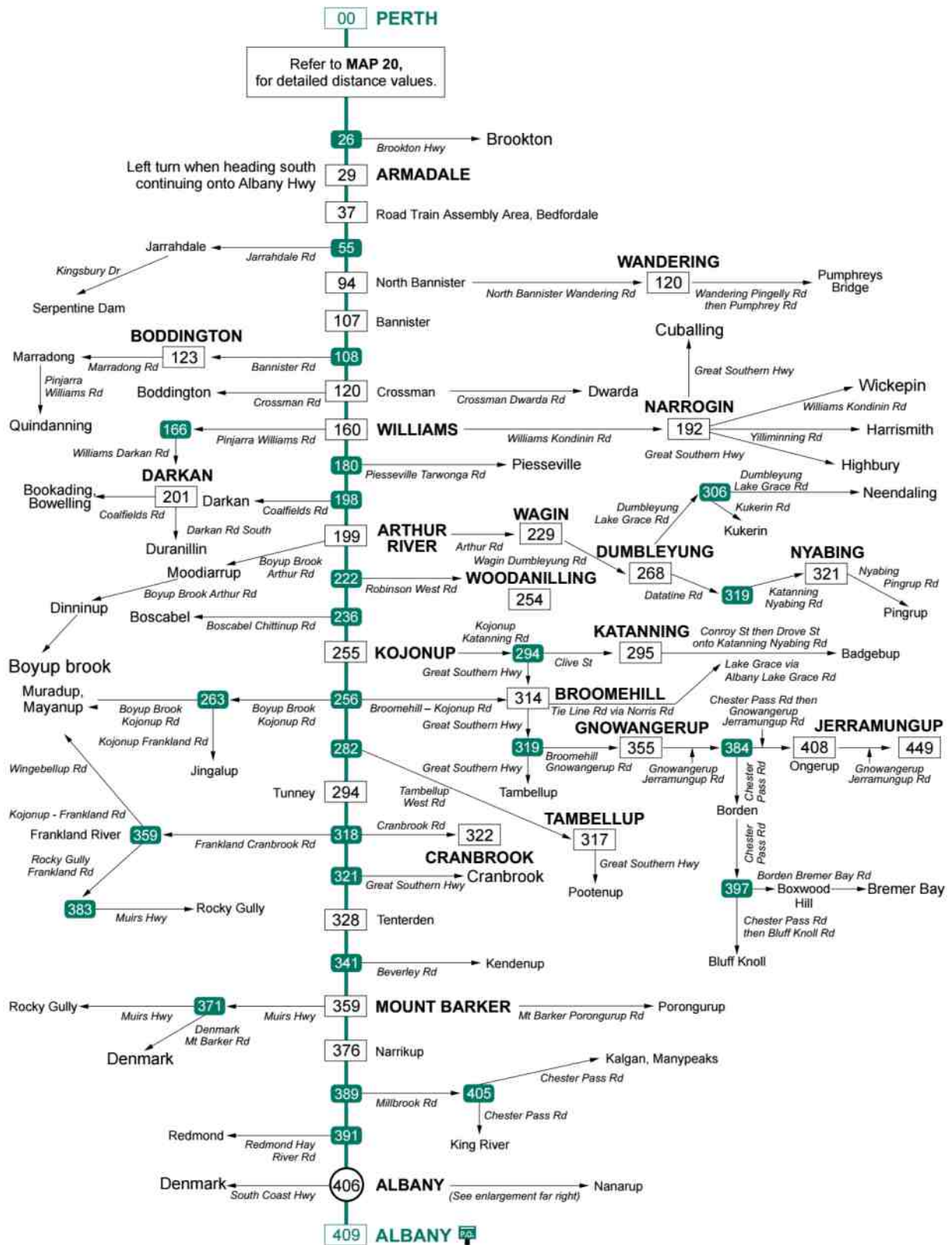
VIA ARMADALE, SERPENTINE, PINJARRA, WAROONA, HARVEY AND COLLIE



PERTH – ALBANY

VIA ARMADALE, WILLIAMS, KOJONUP, CRANBROOK AND MOUNT BARKER

[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Shepperton Rd (4), Albany Hwy (5), Kenwick Link (3), Albany Hwy (377), [ALBANY ROTARY], Albany Hwy (2.6), York St (0.3), [ALBANY P.O.]

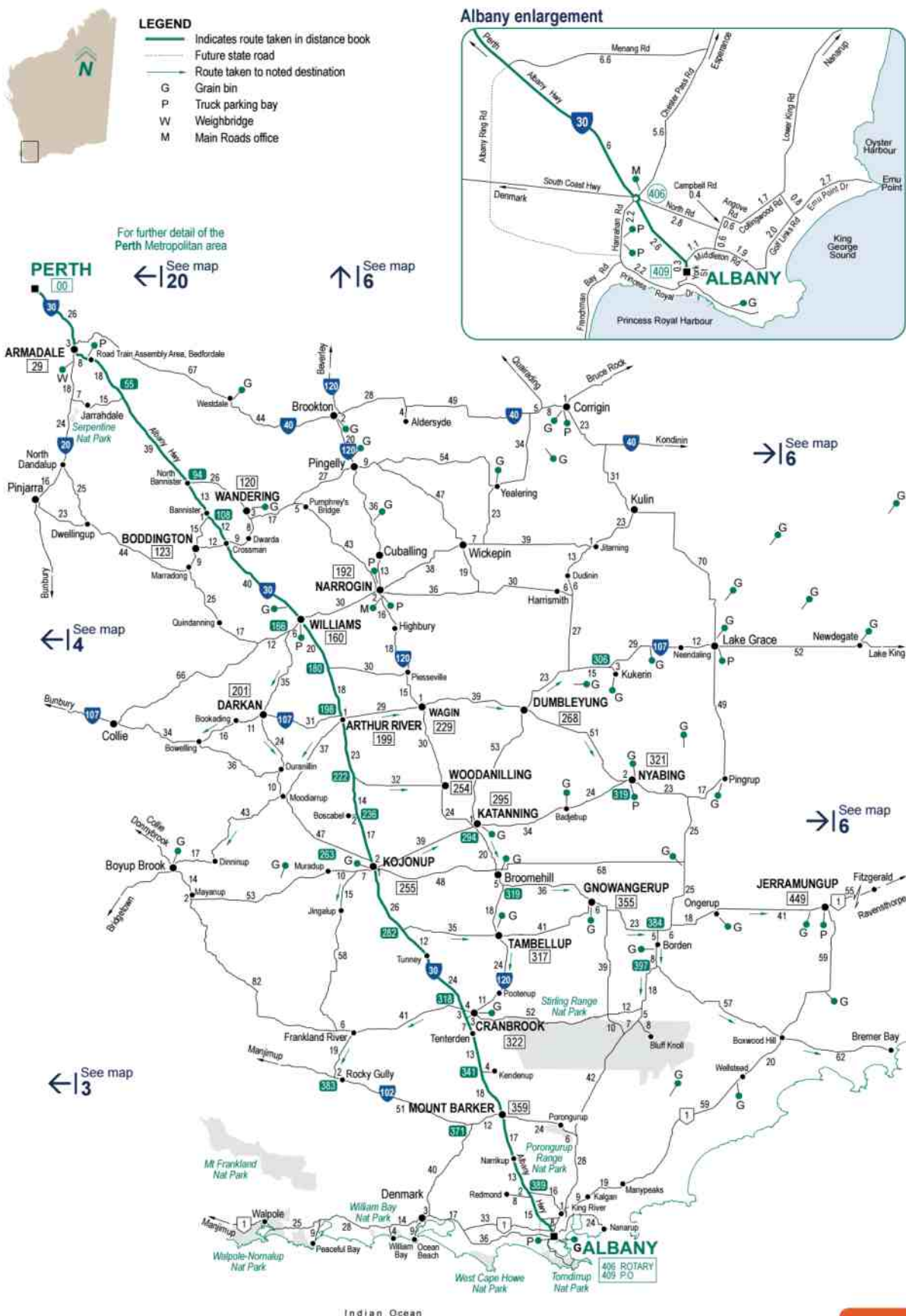


The street name on some routes may change through townsites.



PERTH - ALBANY

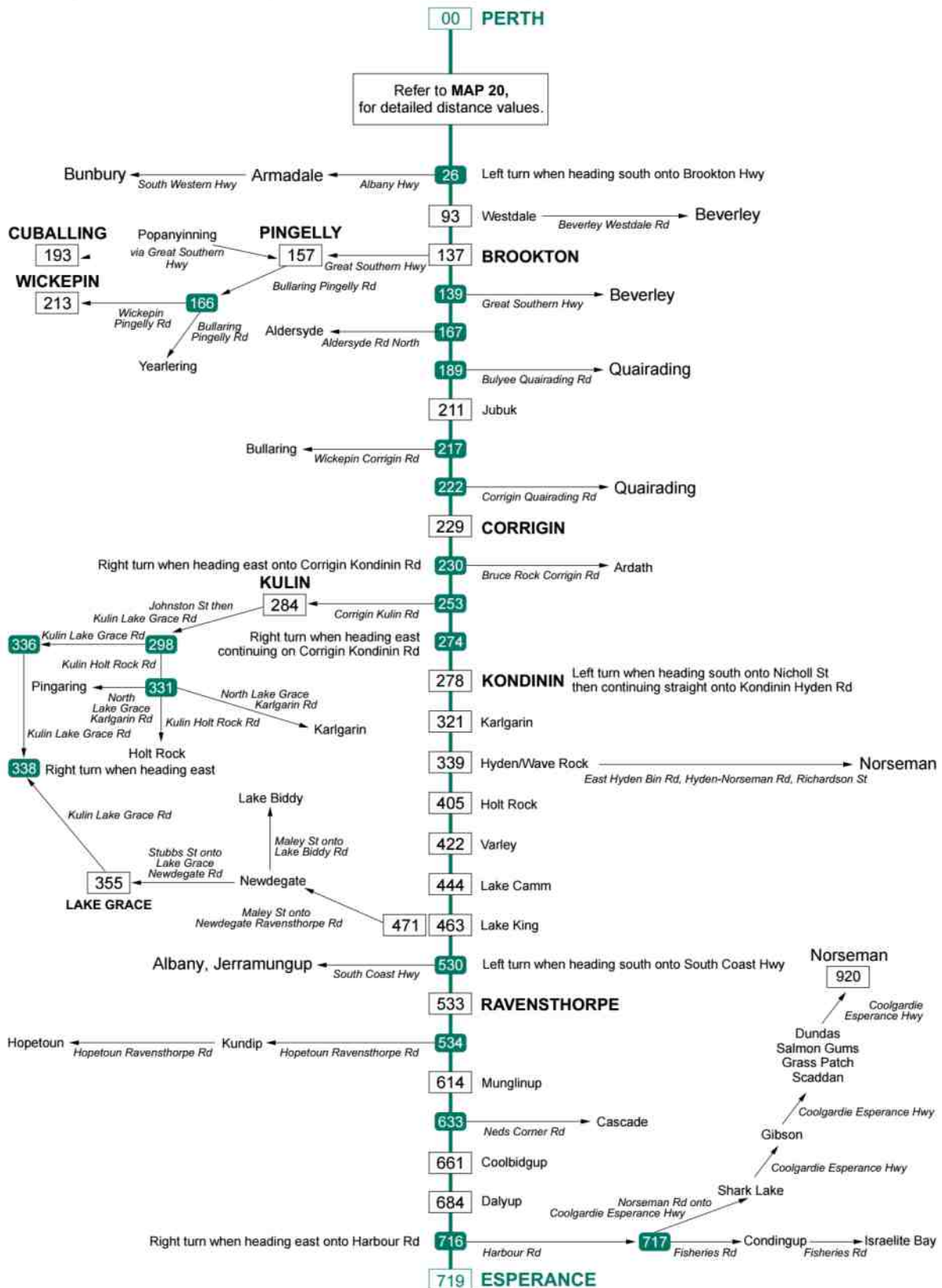
VIA ARMADALE, WILLIAMS, KOJONUP, CRANBROOK AND MOUNT BARKER



PERTH – ESPERANCE

VIA BROOKTON, CORRIGIN, KONDININ AND RAVENSTHORPE

[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Shepperton Rd (4), Albany Hwy (5), Kenwick Link (3), Albany Hwy (11), Brookton Hwy (113), Brookton Corrigin Rd (91), Corrigin Kondinin Rd (48), Kondinin Hyden Rd (61), Hyden Lake King Rd (124), Newdegate Ravensthorpe Rd (67), South Coast Hwy (186), Harbour Rd (3), [ESPERANCE]

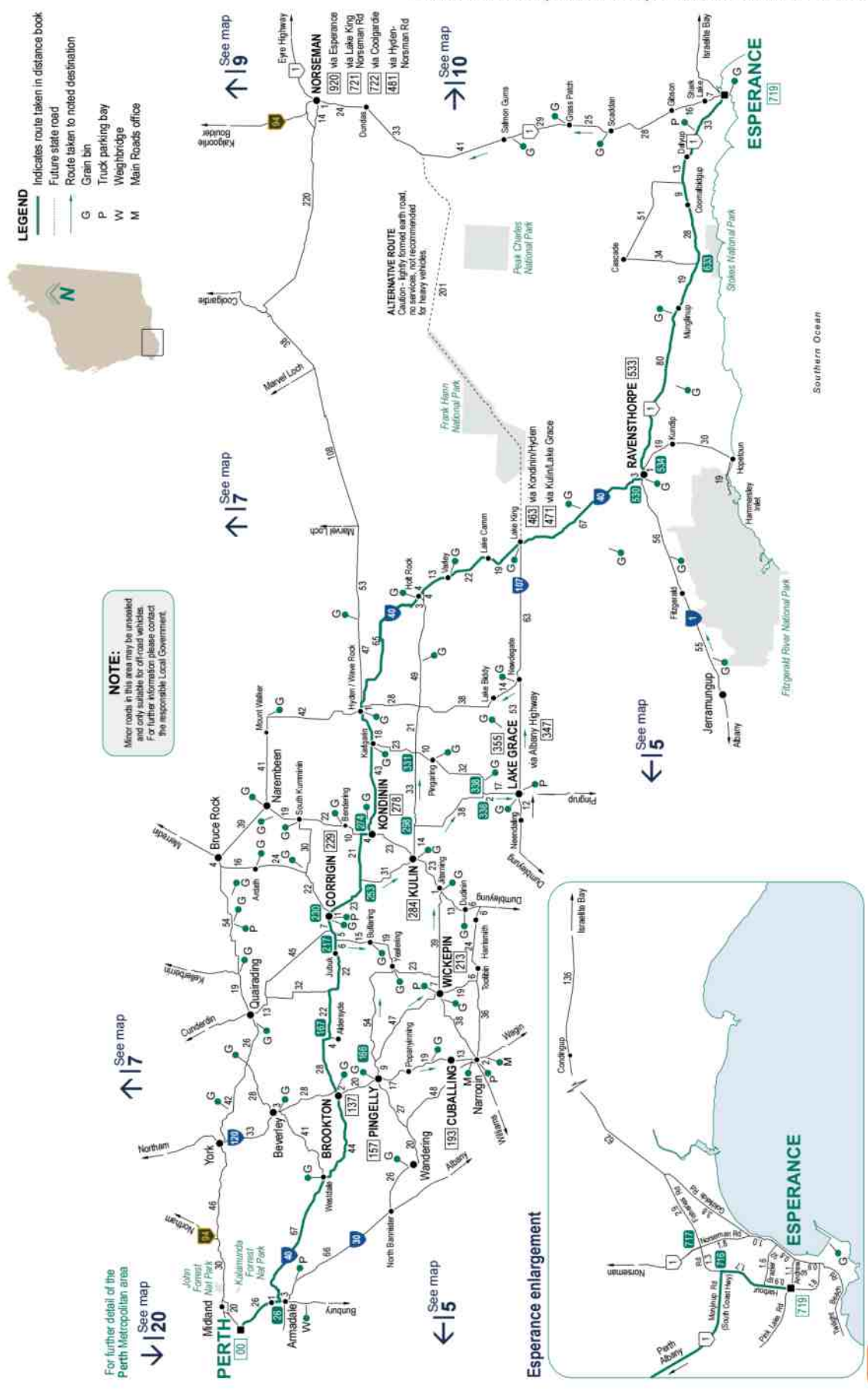


The street name on some routes may change through townsites.



PERTH - ESPERANCE

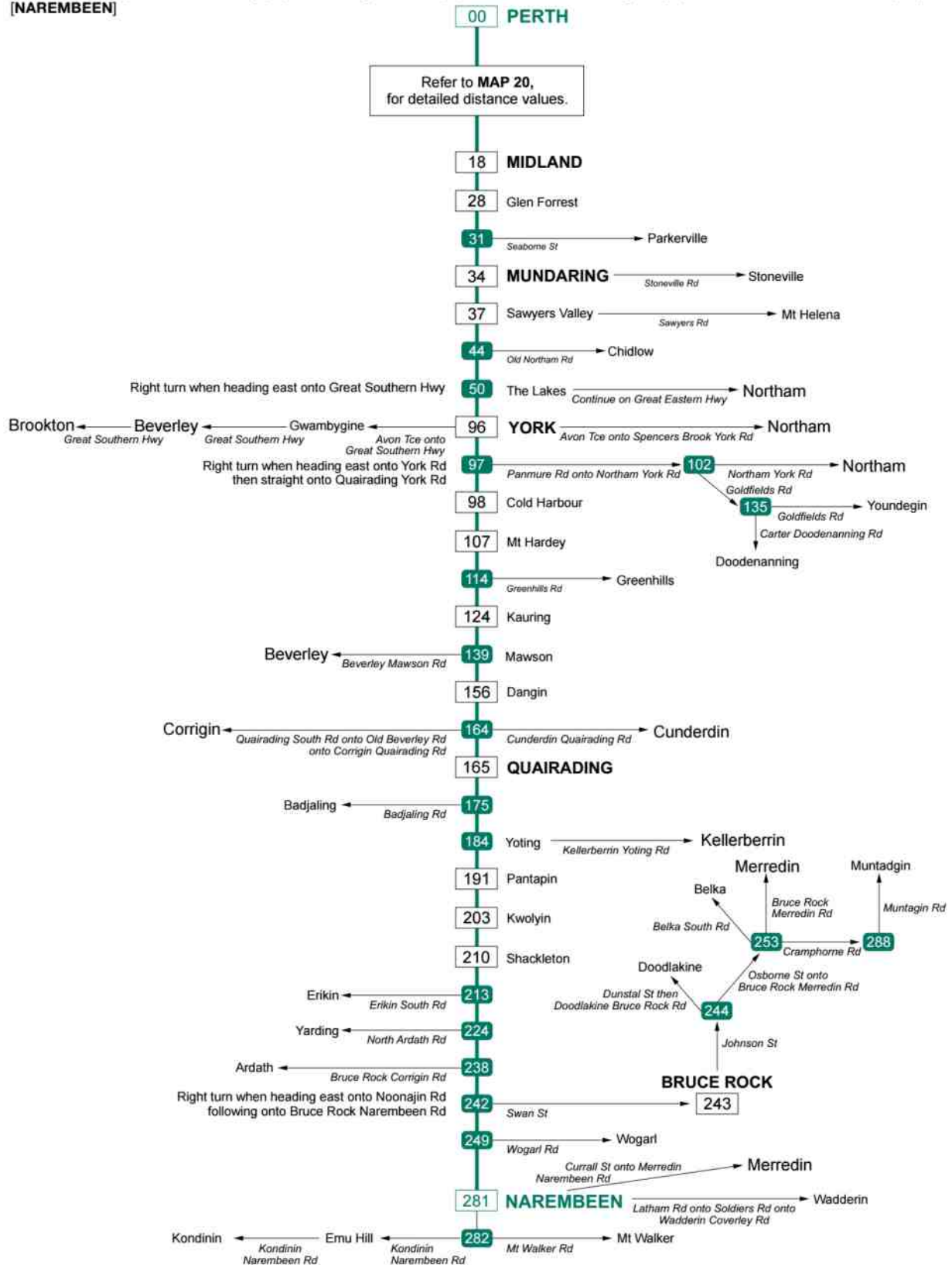
VIA BROOKTON, CORRIGIN, KONDININ AND RAVENSTHORPE



PERTH – NAREMBEEN

VIA MUNDARING, YORK, QUAIRADING AND BRUCE ROCK

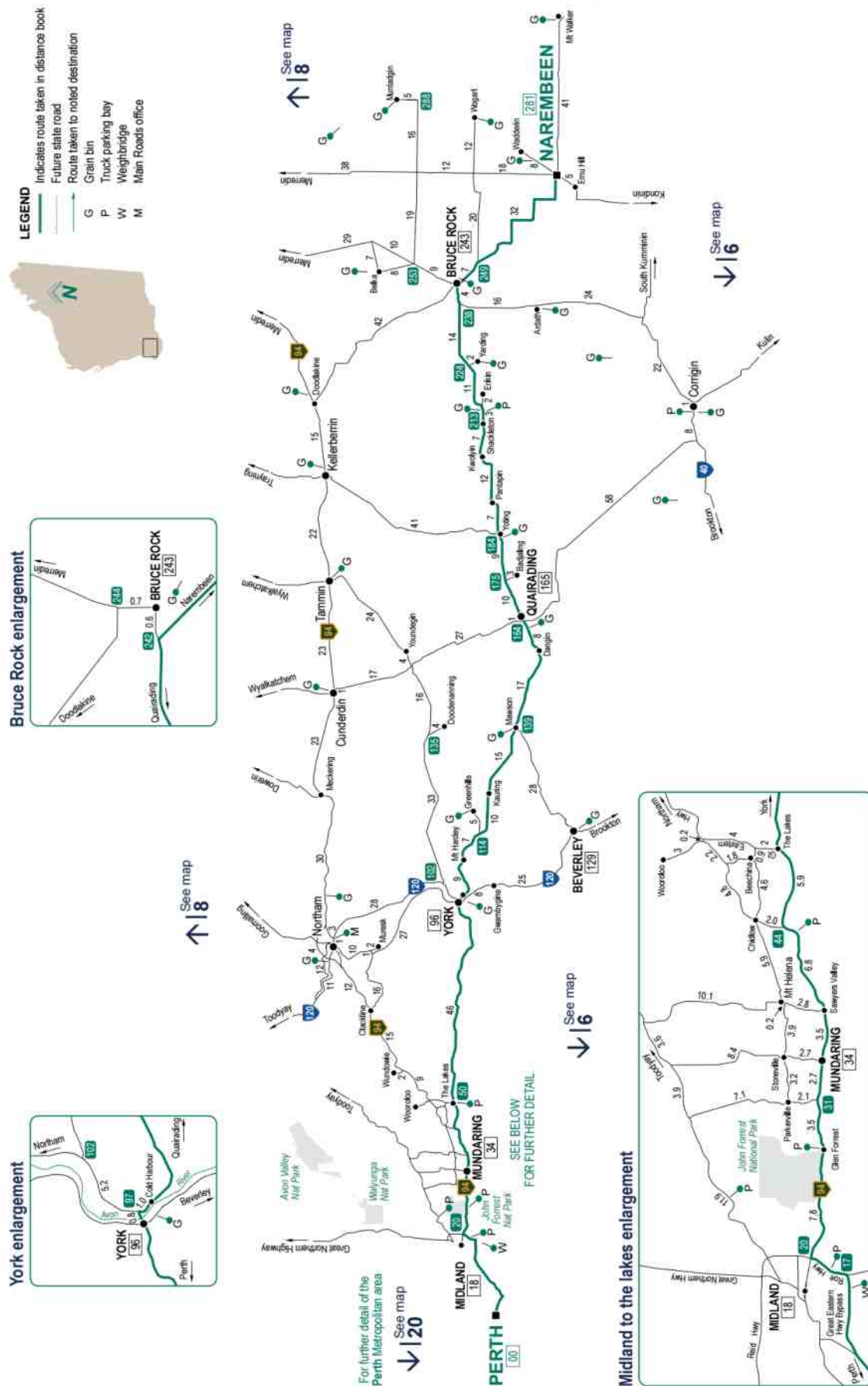
[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Gt Eastern Hwy (8), Gt Eastern Hwy Bypass (6), Roe Hwy (3), Gt Eastern Hwy (30), Gt Southern Hwy (47), Quairading York Rd (67), Bruce Rock Quairading Rd (78), Bruce Rock Narembeen Rd (39), [NAREMBEEN]



The street name on some routes may change through townsites.

PERTH – NAREMBEEN

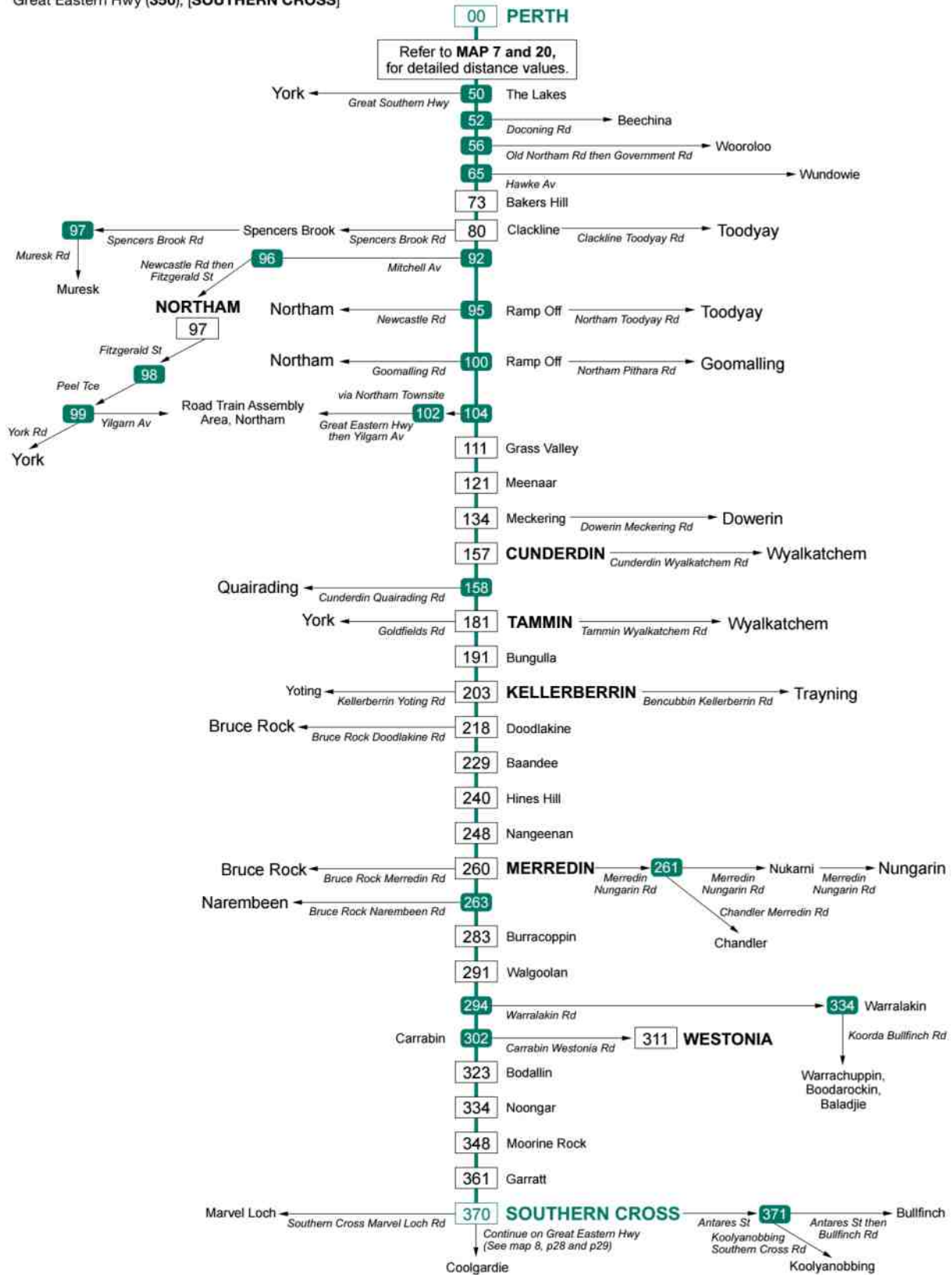
VIA MUNDARING, YORK, QUAIRADING AND BRUCE ROCK



PERTH – SOUTHERN CROSS

VIA MUNDARING, NORTHAM BYPASS, CUNDERDIN, TAMMIN, KELLERBERRIN AND MERREDIN

[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Great Eastern Hwy (8), Great Eastern Hwy Bypass (6), Roe Hwy (3), Great Eastern Hwy (350), [SOUTHERN CROSS]

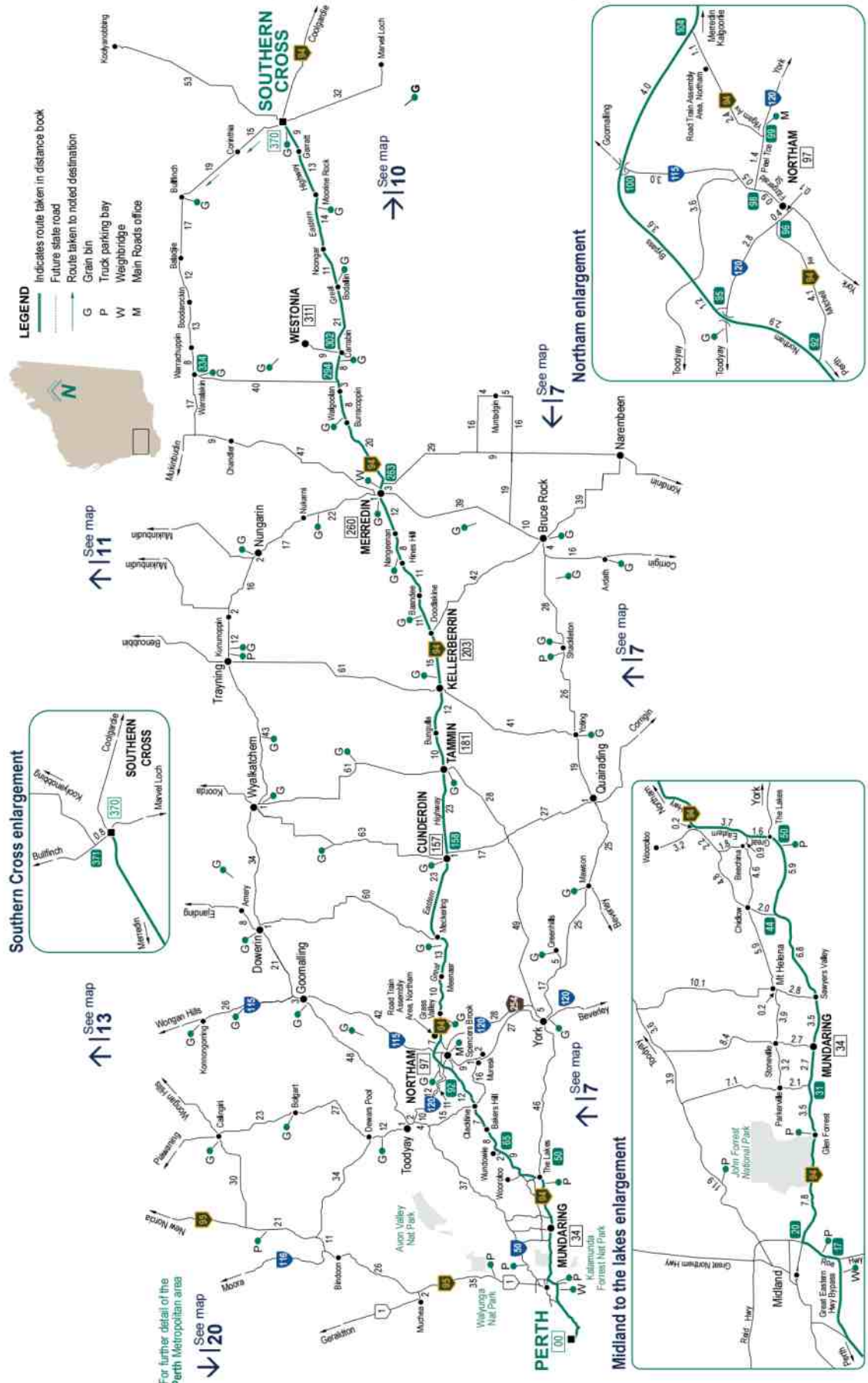


The street name on some routes may change through townsites.



PERTH - SOUTHERN CROSS

VIA MUNDARING, NORTHAM BYPASS, CUNDERDIN, TAMMIN, KELLERBERRIN AND MERREDIN

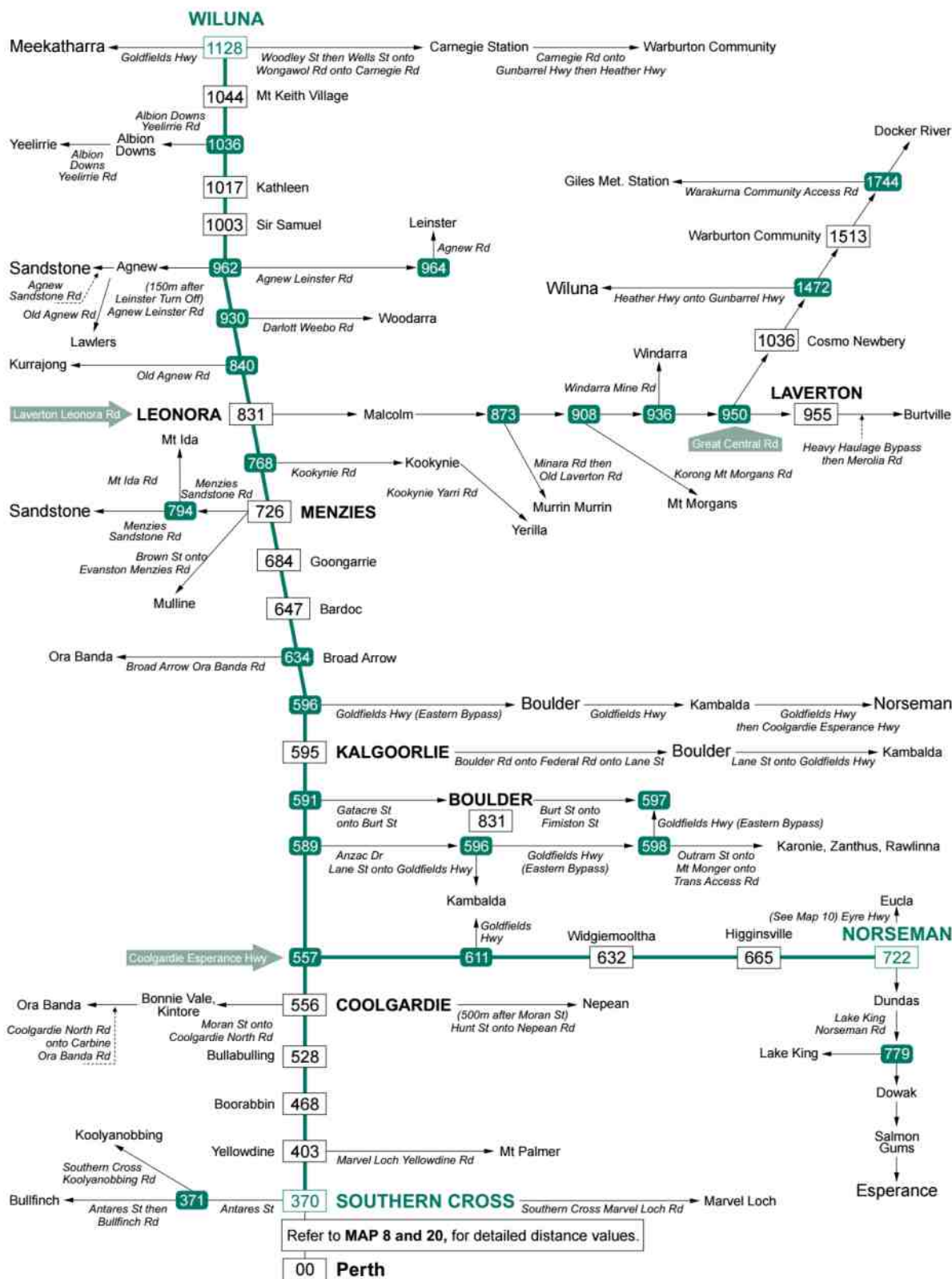


Map 8

SOUTHERN CROSS – WILUNA AND NORSEMAN

VIA COOLGARDIE, KALGOORLIE/BOULDER, MENZIES AND LEONORA TO WILUNA – VIA COOLGARDIE TO NORSEMAN.

Southern Cross to Wiluna: [SOUTHERN CROSS], Great Eastern Hwy (226), Goldfields Hwy (532), [WILUNA], Southern Cross to Norseman: [SOUTHERN CROSS], Great Eastern Hwy (187), Coolgardie Esperance Hwy (165), [NORSEMAN]

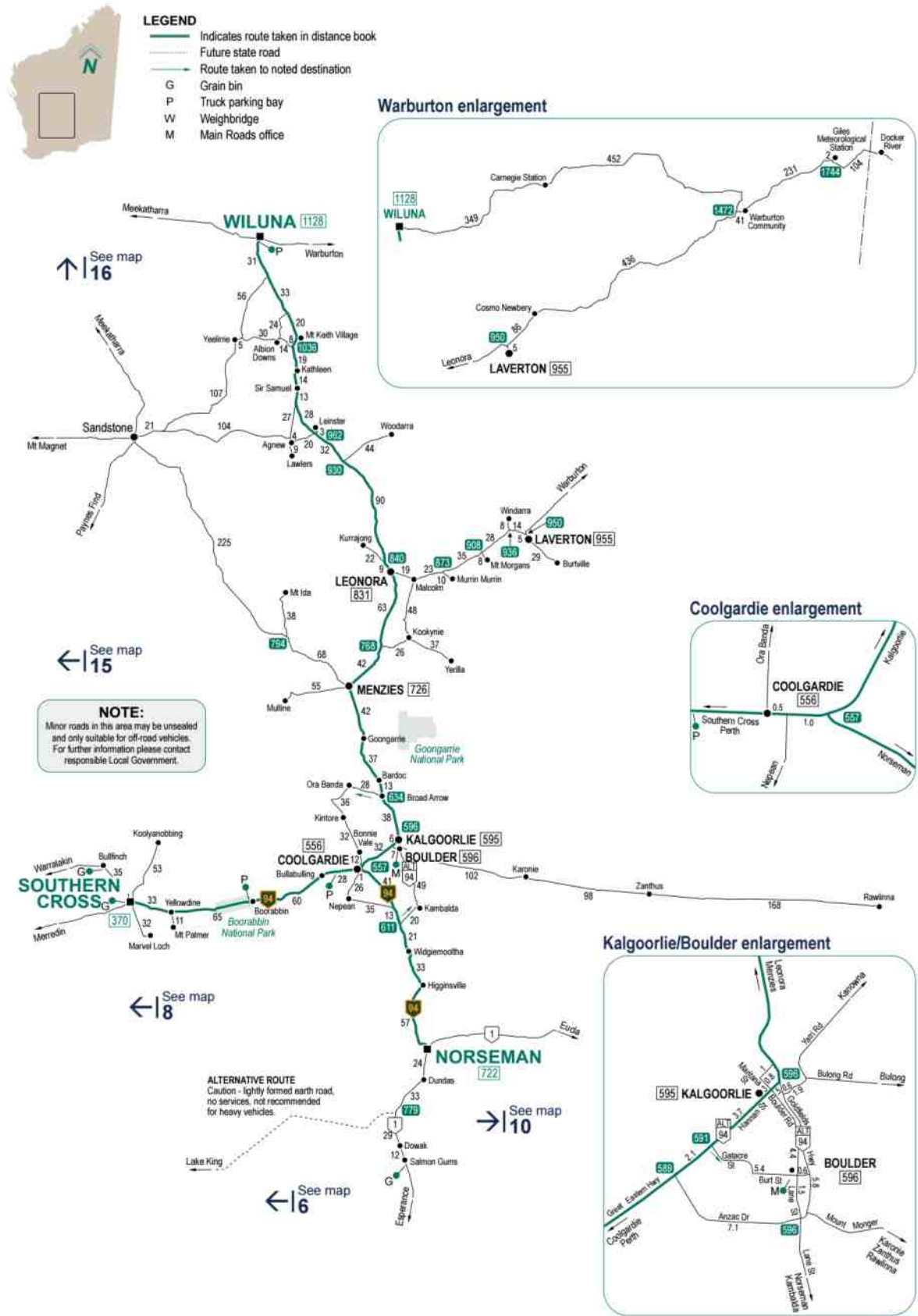


The street name on some routes may change through townsites.



SOUTHERN CROSS – WILUNA AND NORSEMAN

VIA COOLGARDIE, KALGOORLIE/BOULDER, MENZIES AND LEONORA TO WILUNA – VIA COOLGARDIE TO NORSEMAN



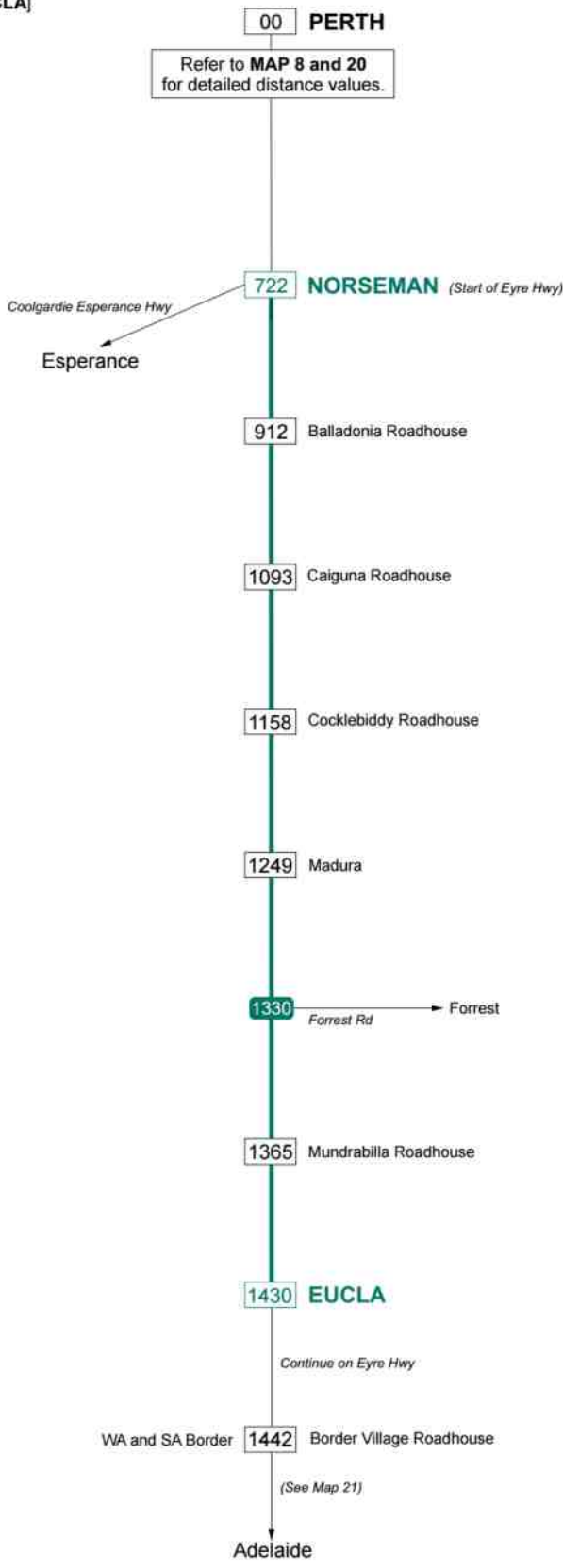
Map 9



NORSEMAN – EUCLA

VIA EYRE HWY

[NORSEMAN], Eyre Hwy (708), [EUCLA]



The street name on some routes may change through townsites.



This map shows the road network in Western Australia, starting from Perth (00) at the bottom and extending northwards. Major towns and roads are labeled, including:

- Perth (00)**: Starting point at the bottom.
- Goomalling (133)**: Located north of Perth.
- Dowerin (157)**: Located north of Goomalling.
- Wyalkatchem (192)**: Located north of Dowerin.
- Traying (236)**: Located north of Wyalkatchem.
- Bencubbin (273)**: Located north of Traying.
- Mookinbudin (293)**: Located north of Bencubbin.
- Nungarin (268)**: Located north of Mookinbudin.
- Merredin (268)**: Located north of Nungarin.

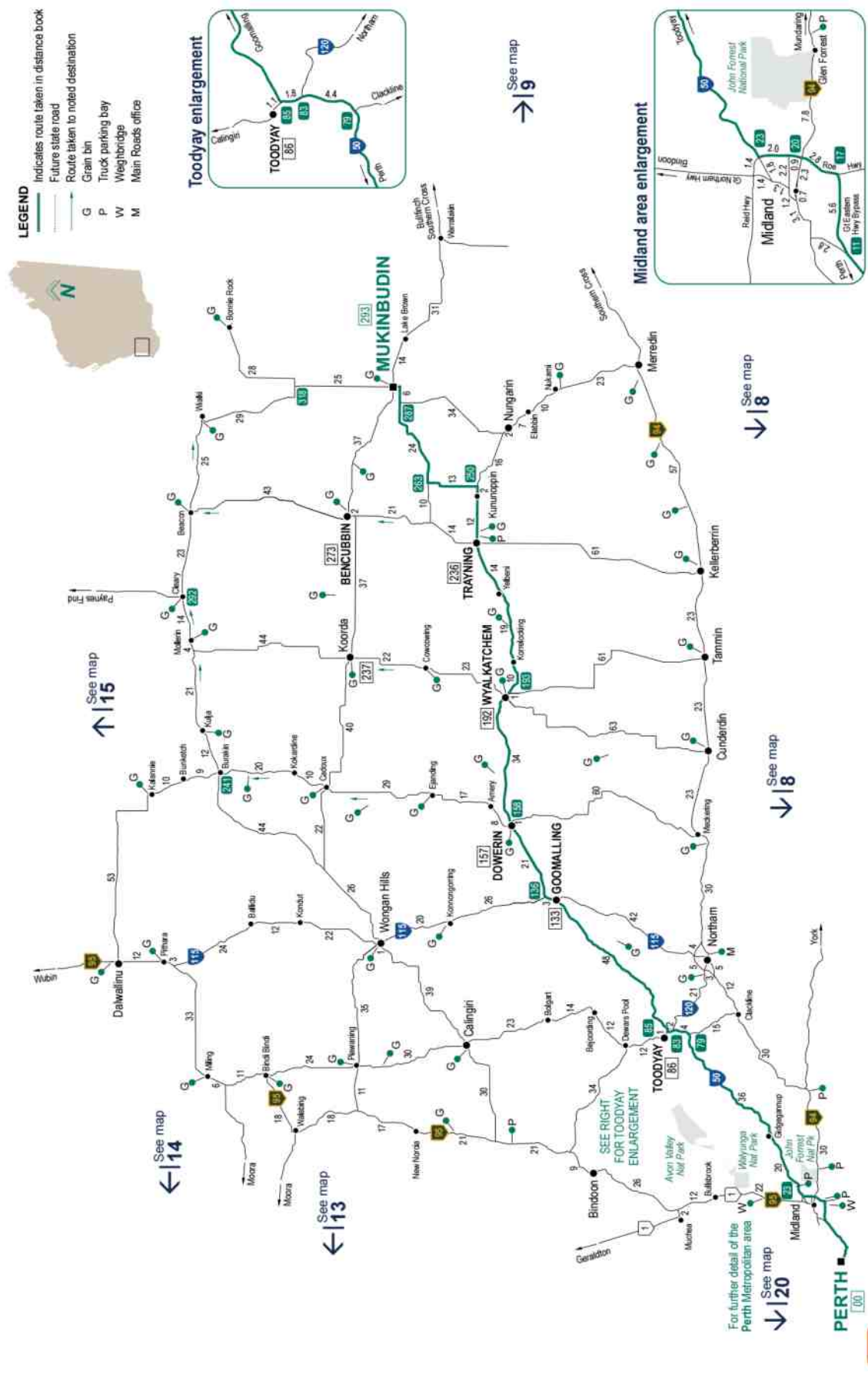
The map also shows various local roads and distances between towns. A scale bar at the bottom indicates distances in kilometers (0 to 100) and miles (0 to 100).

The street name on some routes may change through townsites.



PERTH - MUKINBUDIN

VIA TOODYAY, GOOMALLING, DOWERIN, WYALKATCHEM AND TRAYNING

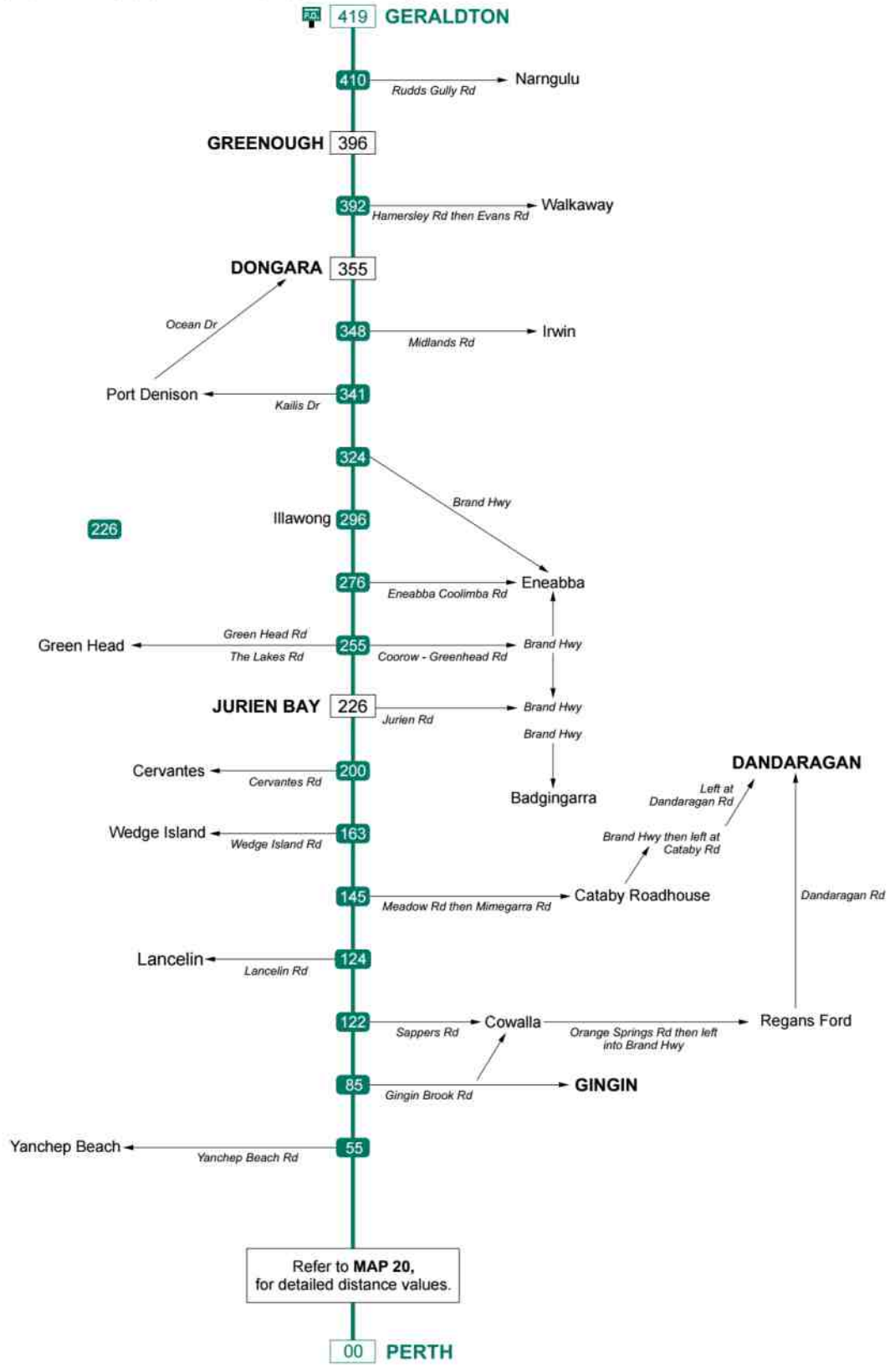




PERTH – GERALDTON

VIA LANCELIN, DONGARA AND GREENOUGH ON INDIAN OCEAN DRIVE

[PERTH], St Georges Tce (0.5), William St (0.6), Mitchell Fwy (29.3), Burns Beach Rd (2.1), Joondalup Dr (1), Wanneroo Rd (20.5), Indian Ocean Drive (269), Brand Hwy (94), Cathedral Av (1.6) [GERALDTON]



The street name on some routes may change through townsites.



PERTH – GERALDTON

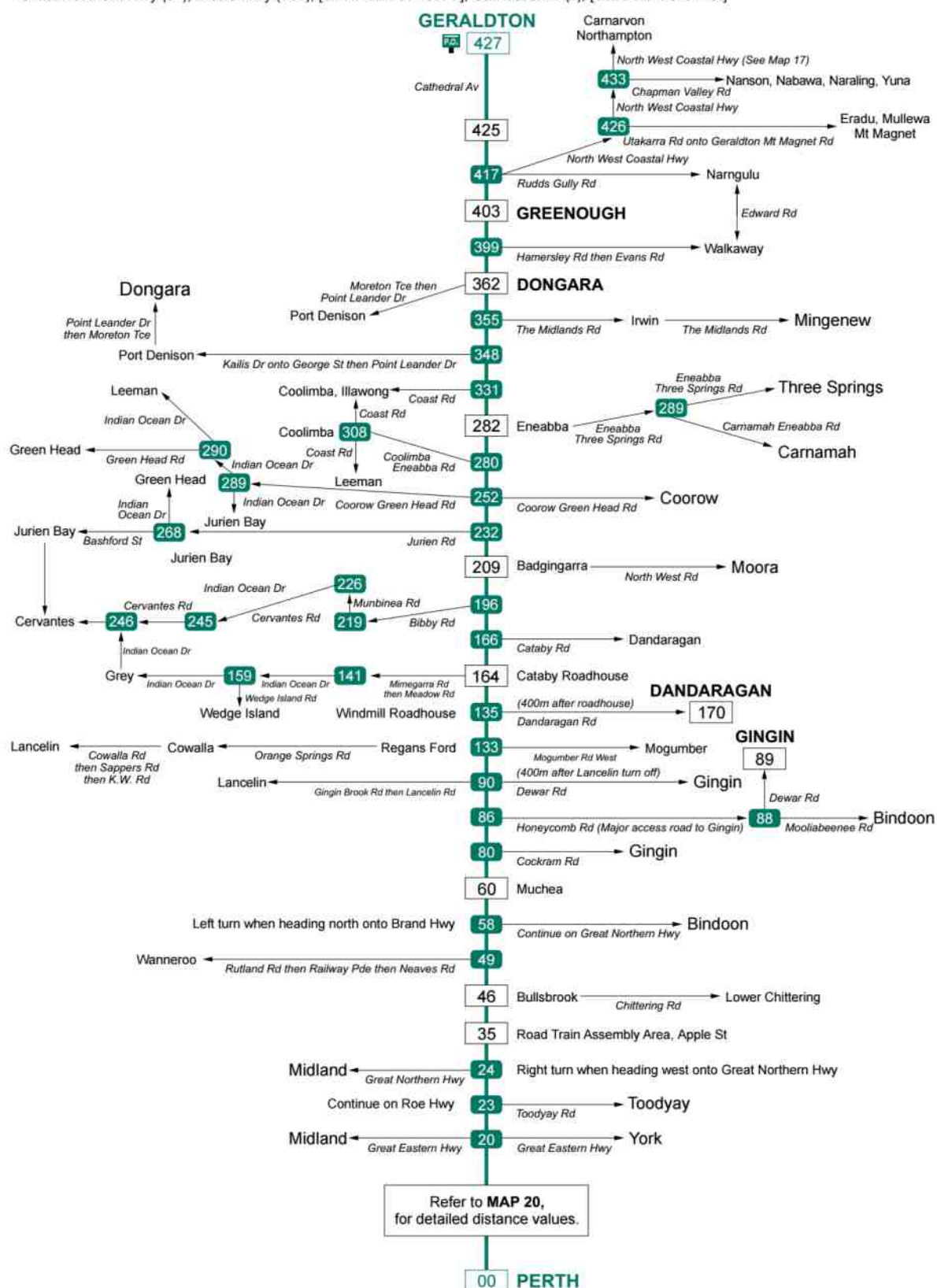
VIA LANCELIN, DONGARA AND GREENOUGH ON INDIAN OCEAN DRIVE (MAP 1 OF 2)



Map 12

VIA GINGIN, DONGARA AND GREENOUGH ON BRAND HWY

[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Gt Eastern Hwy (8), Gt Eastern Hwy Bypass (6), Roe Hwy (7), Great Northern Hwy (34), Brand Hwy (367), [GERALDTON CITY], Cathedral Av (2), [GERALDTON P.O.]

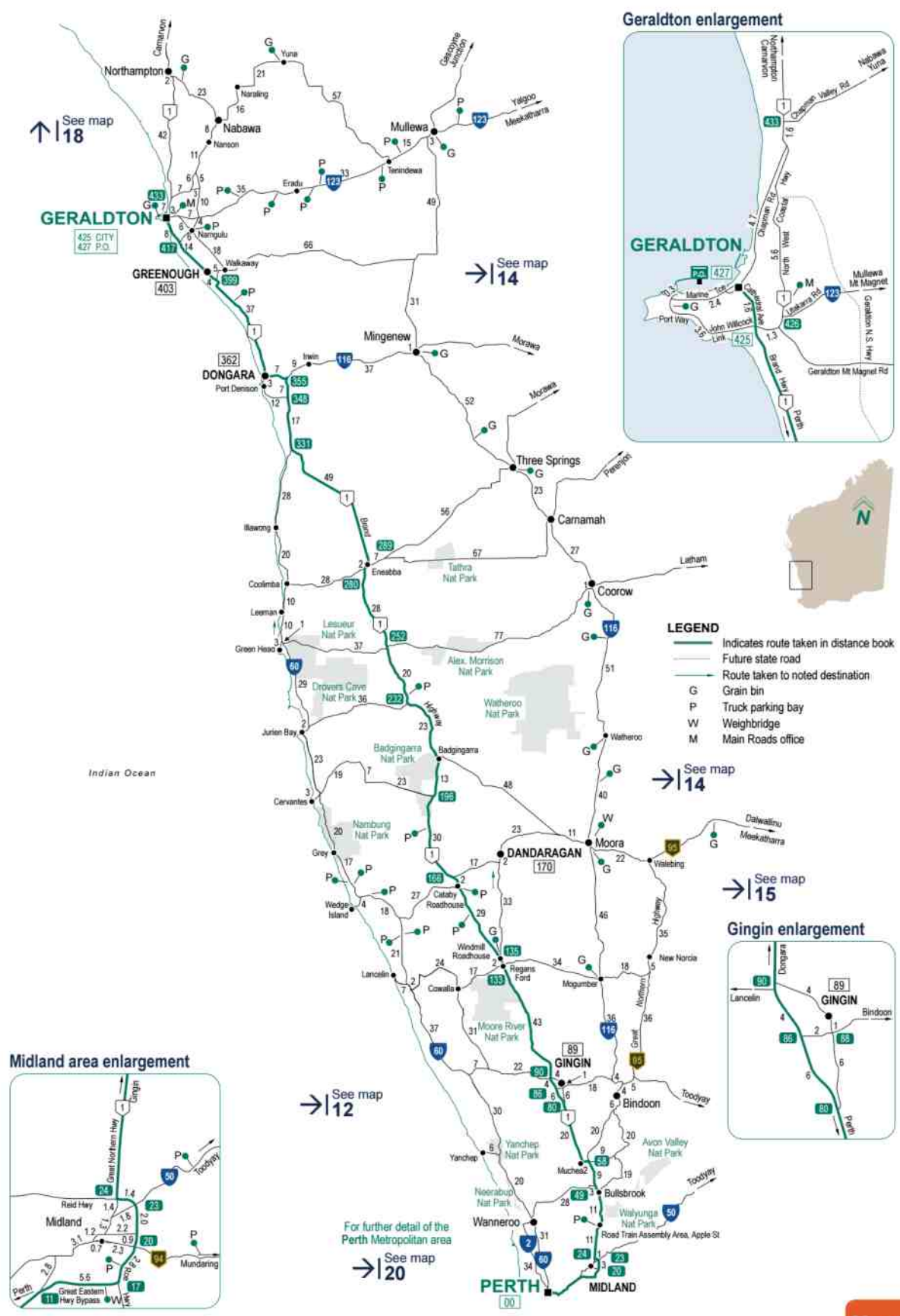


The street name on some routes may change through townsites.



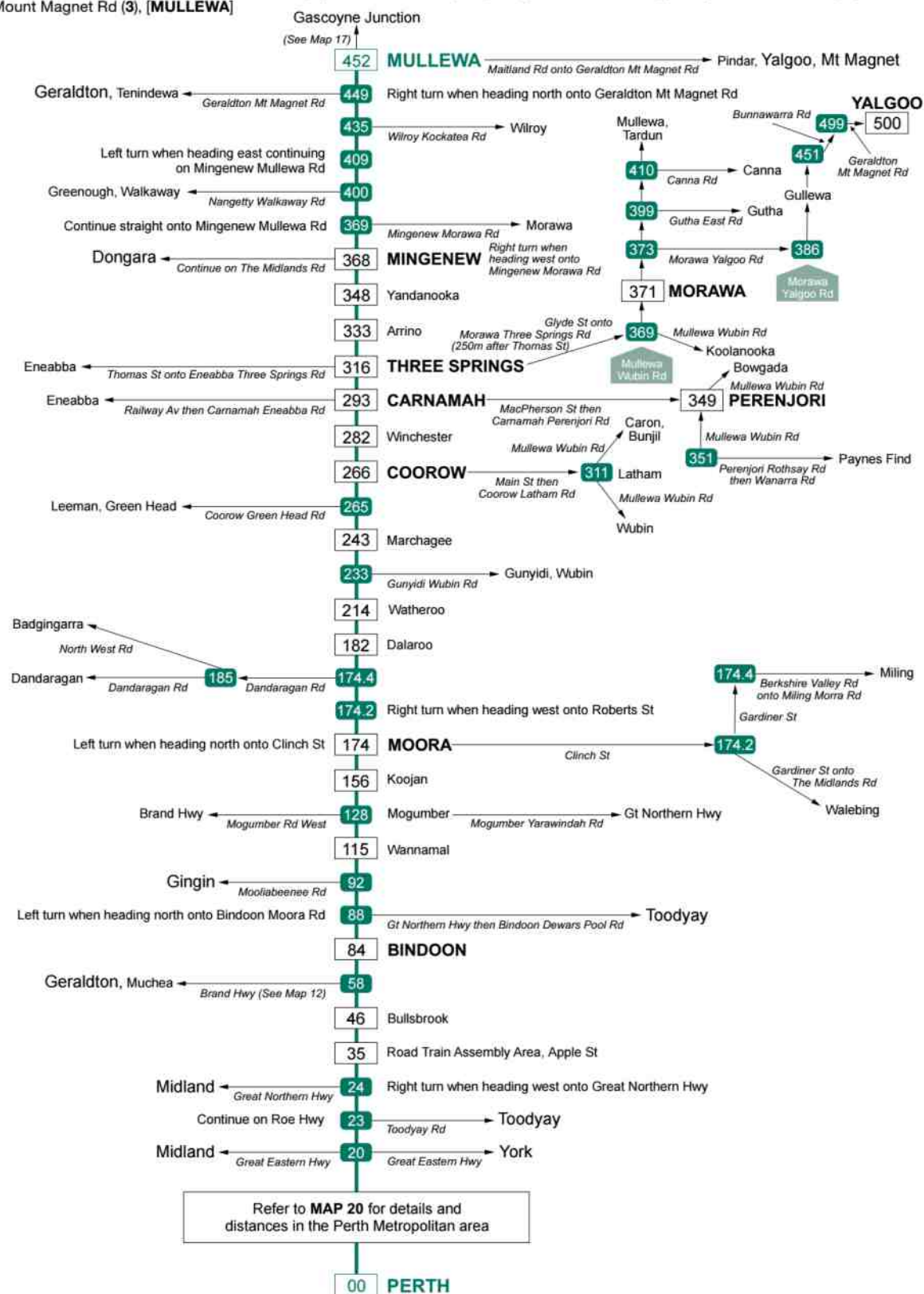
PERTH – GERALDTON

VIA GINGIN, DONGARA AND GREENOUGH ON BRAND HWY (MAP 2 OF 2)



VIA BINDOON, MOORA, COOROW, CARNAMAH, THREE SPRINGS AND MINGENEW

[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Great Eastern Hwy (8), Great Eastern Hwy Bypass (6), Roe Hwy (7), Great Northern Hwy (64), Bindoon Moora Rd (86), The Midlands Rd (194), Mingenew Morawa Rd (1), Mingenew Mullewa Rd (80), Geraldton Mount Magnet Rd (3). [MULLEWA]

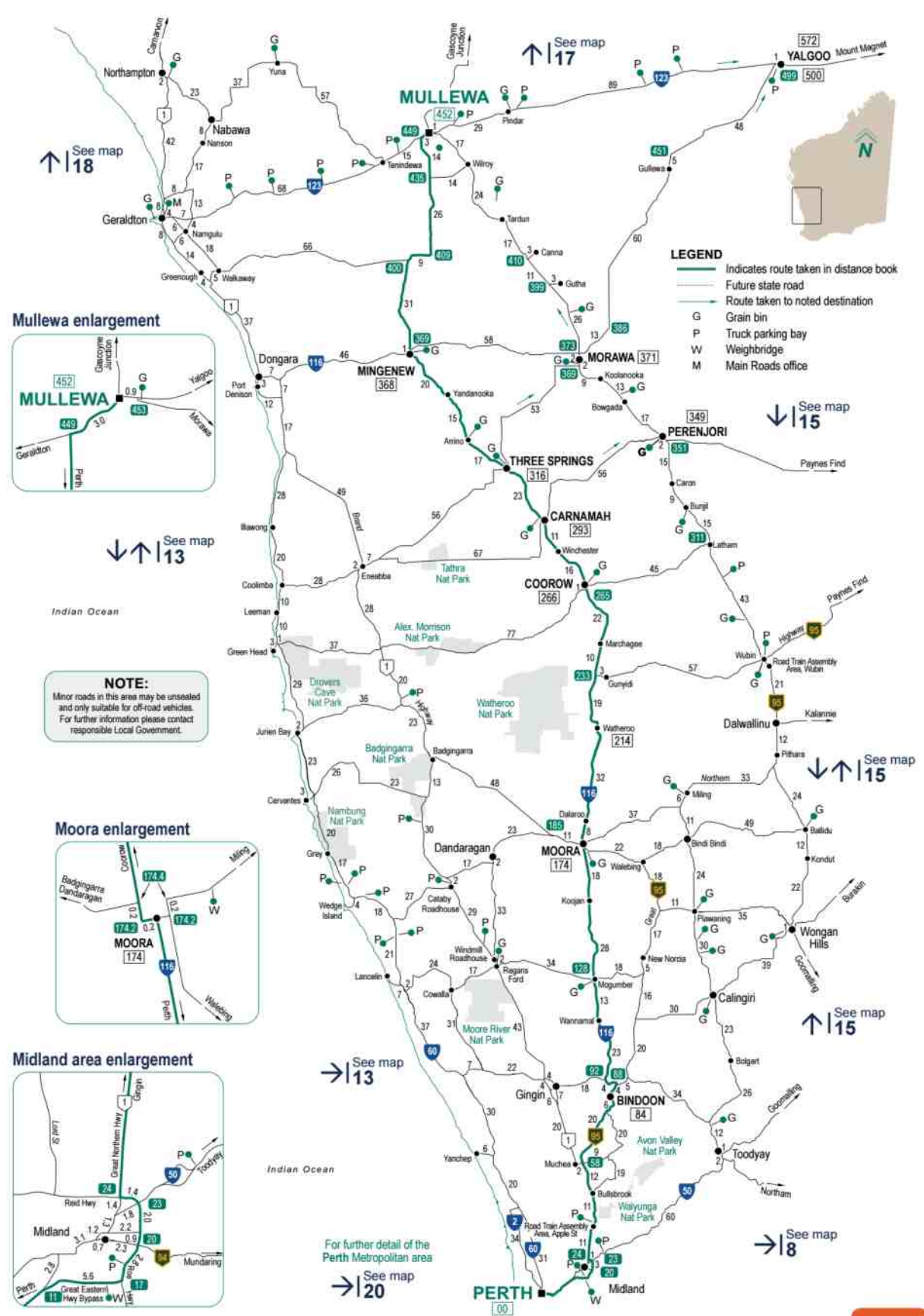


The street name on some routes may change through townsites.



PERTH – MULLEWA

VIA BINDOON, MOORA, COOROW, CARNAMAH, THREE SPRINGS AND MINGENEW

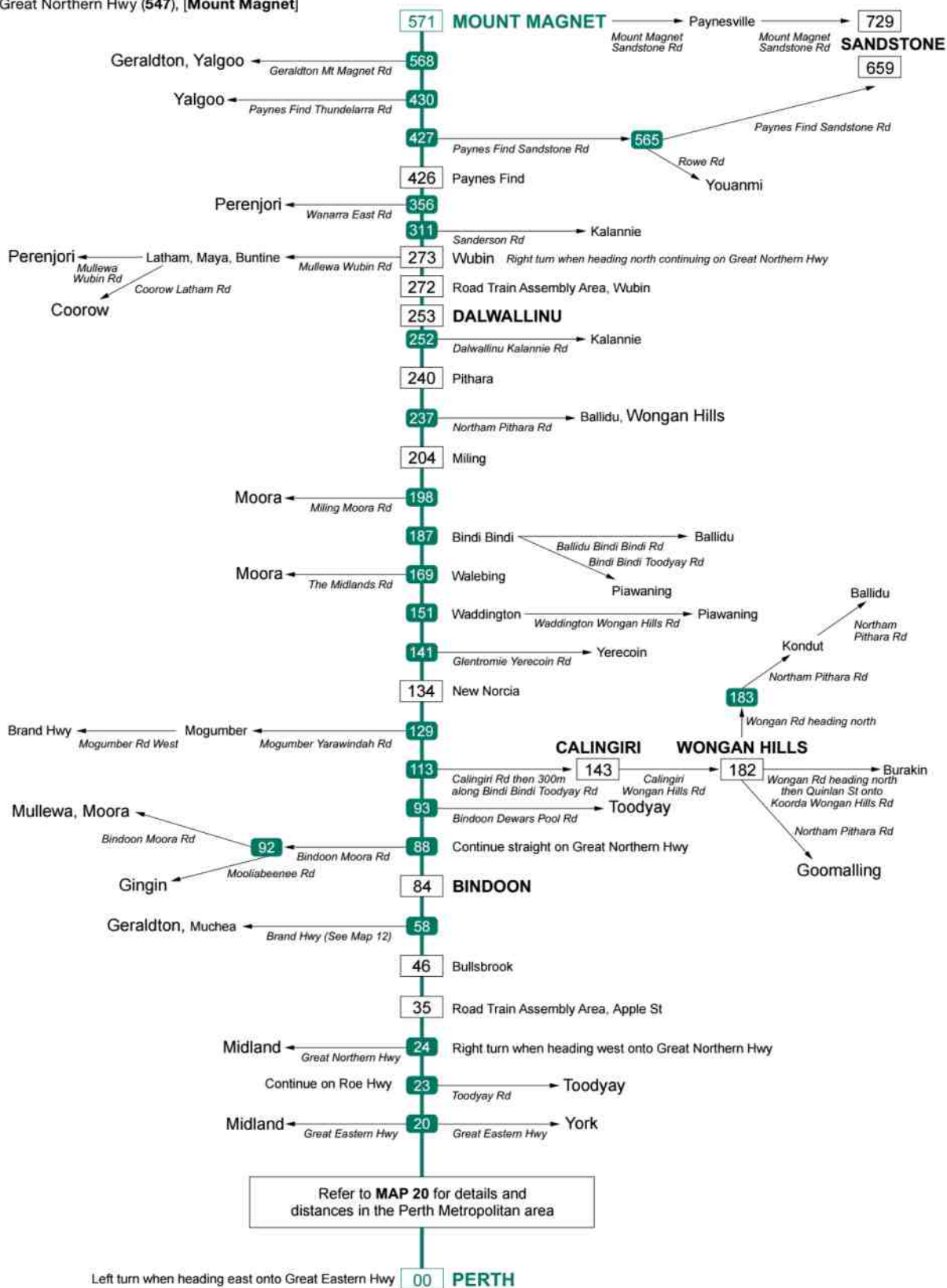


Map 14

PERTH – MOUNT MAGNET

VIA BINDOON AND DALWALLINU ON GREAT NORTHERN HWY

[PERTH], St Georges Tce (0.6), Adelaide Tce (1.3), Causeway (1.2), Great Eastern Hwy (8), Great Eastern Hwy Bypass (6), Roe Hwy (7), Great Northern Hwy (547), [Mount Magnet]

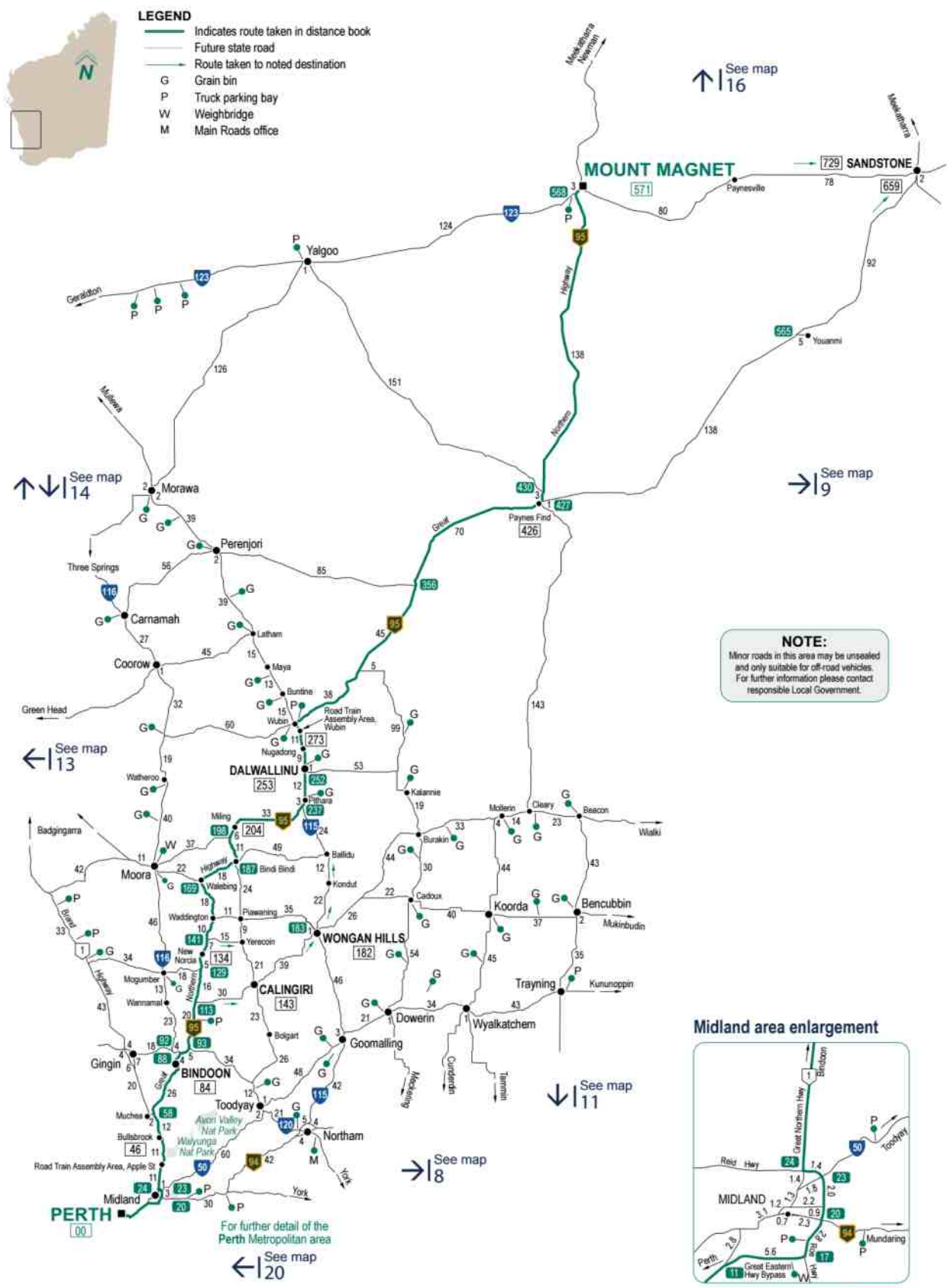


The street name on some routes may change through townsites.



PERTH – MOUNT MAGNET

VIA BINDOON AND DALWALLINU ON GREAT NORTHERN HWY

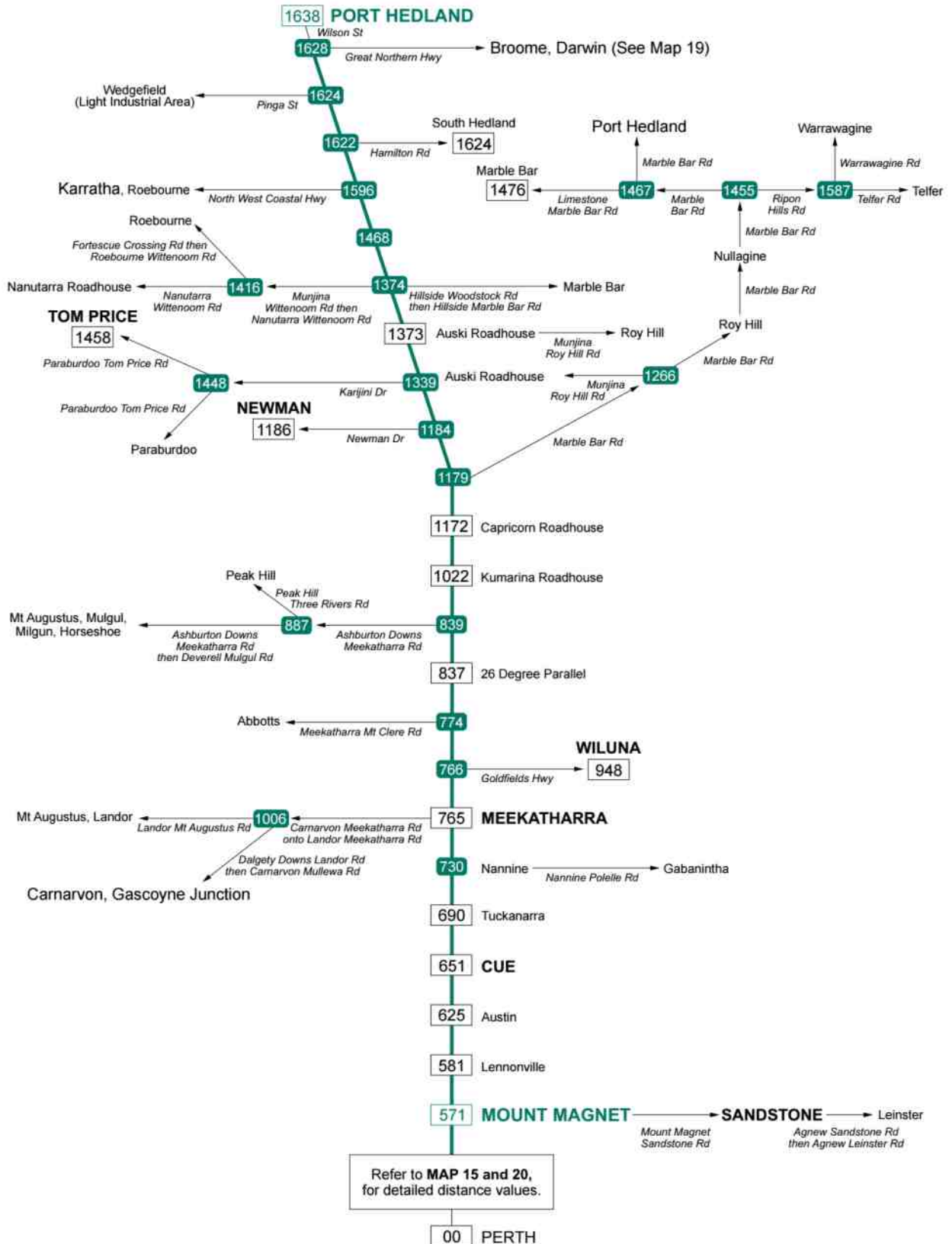


Map 15

MOUNT MAGNET – PORT HEDLAND

VIA CUE, MEEKATHARRA AND NEWMAN

[MOUNT MAGNET], Great Northern Hwy (1057), [TURN OFF TO BROOME], Wilson St (10), [PORT HEDLAND]

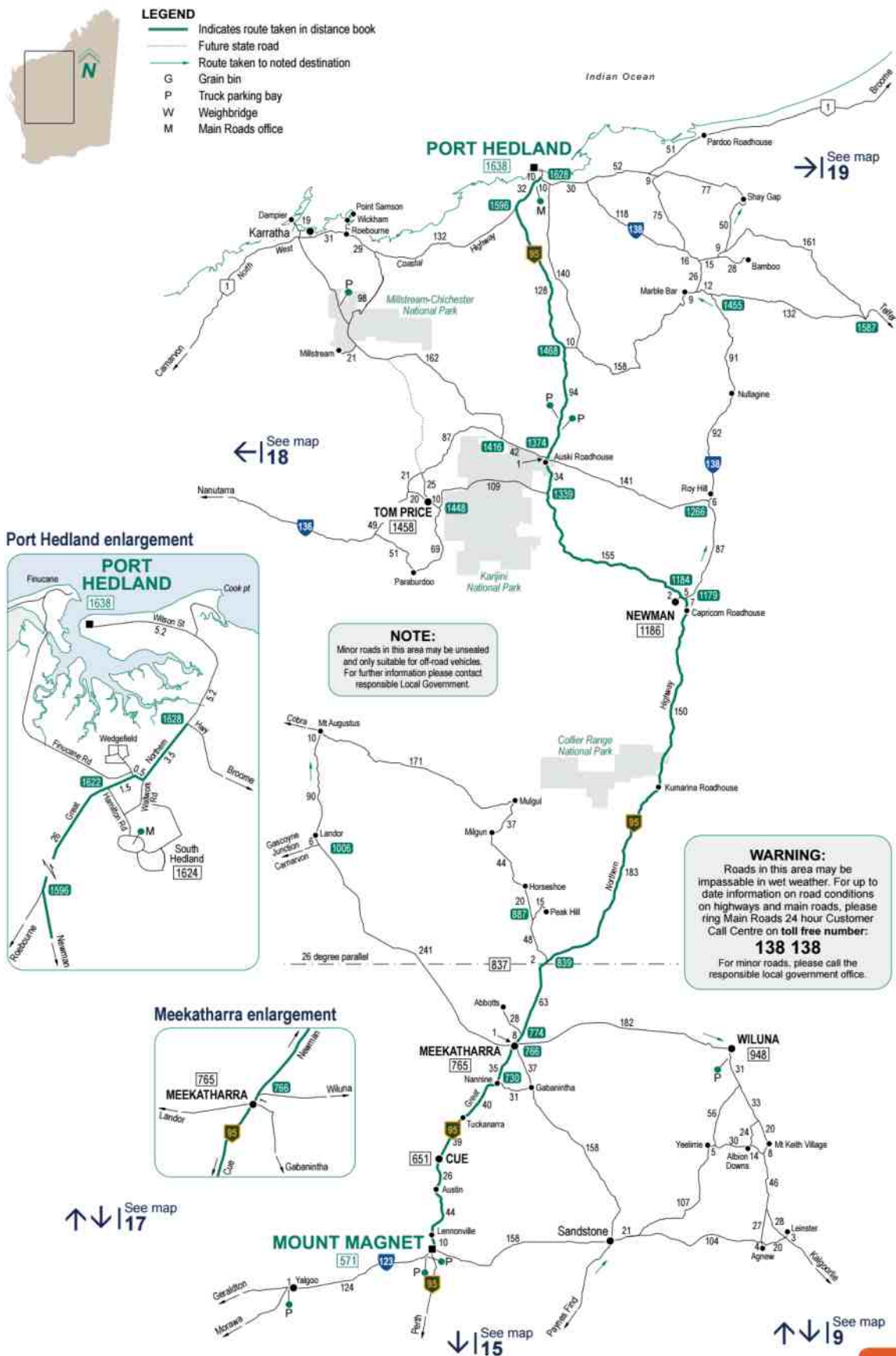


The street name on some routes may change through townsites.



MOUNT MAGNET – PORT HEDLAND

VIA CUE, MEEKATHARRA AND NEWMAN



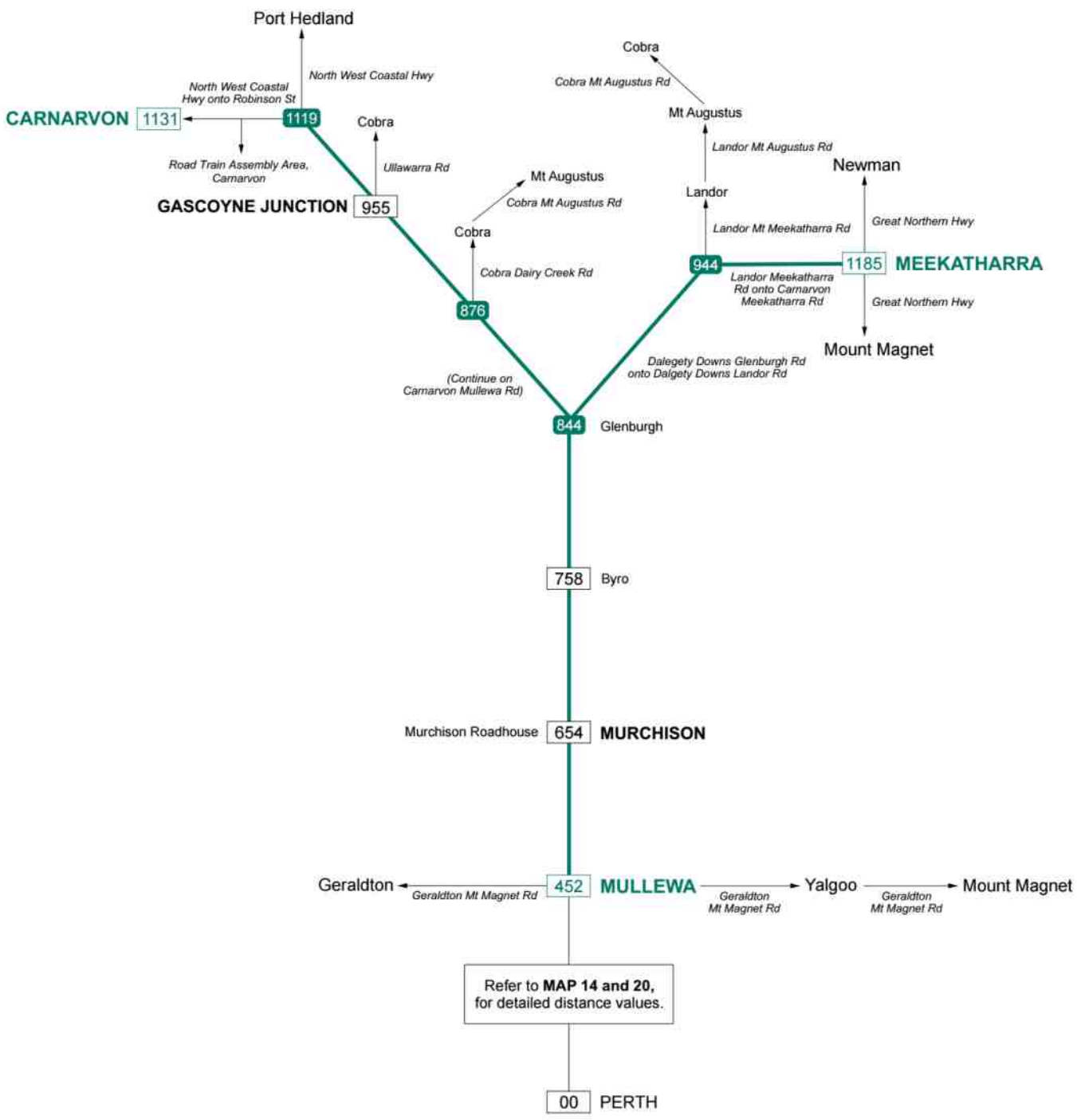
Map 16



MULLEWA – CARNARVON AND MEEKATHARRA

VIA MURCHISON

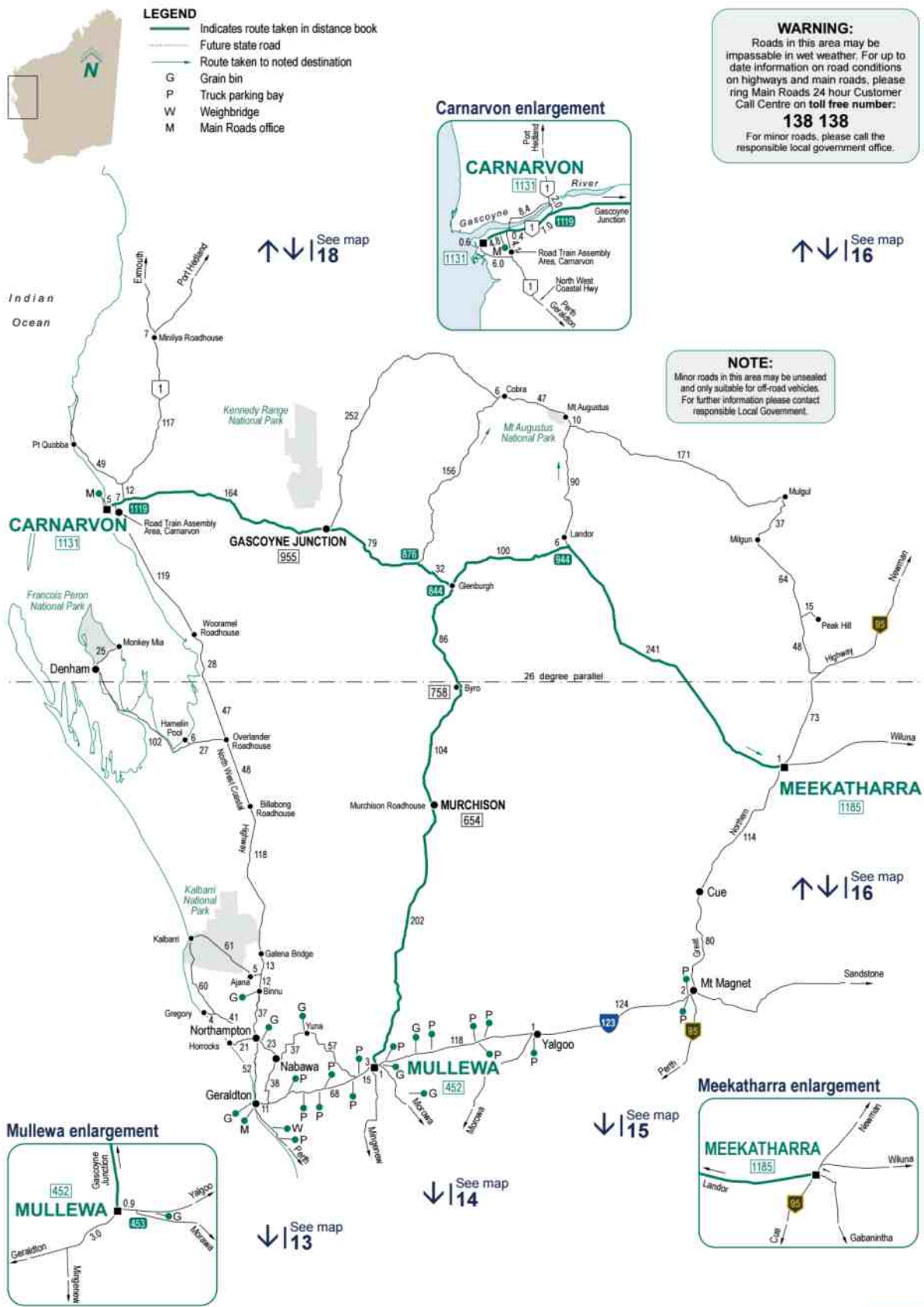
Mullewa to Carnarvon: [MULLEWA], Carnarvon Mullewa Rd (667), North West Coastal Hwy (7), Robinson St (5), [CARNARVON]
Mullewa to Meekatharra: [MULLEWA], Carnarvon Mullewa Rd (392), Dalgety Downs Glenburgh Rd (22), Dalgety Downs Lander Rd (78), Lander Meekatharra Rd (160), Carnarvon Meekatharra Rd (81), [MEEKATHARRA]



The street name on some routes may change through townsites.

MULLEWA – CARNARVON AND MEEKATHARRA

VIA MURCHISON

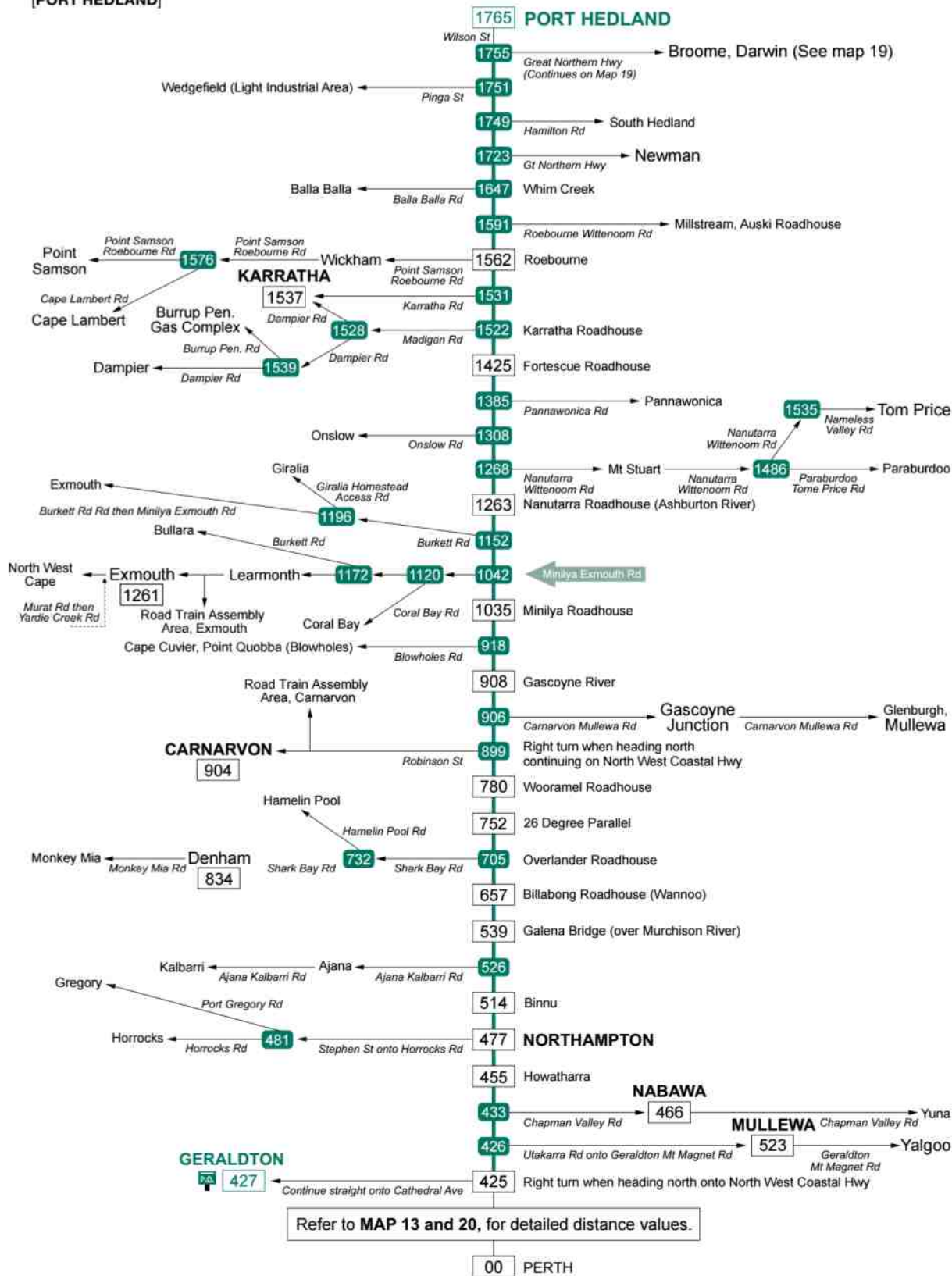


Map 17

GERALDTON – PORT HEDLAND

VIA NORTHAMPTON, CARNARVON AND KARRATHA

[GERALDTON CITY], North West Coastal Hwy (1298), Great Northern Hwy (32), [TURN OFF TO BROOME], Wilson St (10), [PORT HEDLAND]



The street name on some routes may change through townsites.



GERALDTON – PORT HEDLAND

VIA NORTHAMPTON, CARNARVON AND KARRATHA

Karratha enlargement



LEGEND

- Indicates route taken in distance book
- Future state road
- Route taken to noted destination
- G Grain bin
- P Truck parking bay
- W Weighbridge
- M Main Roads office

See map 19

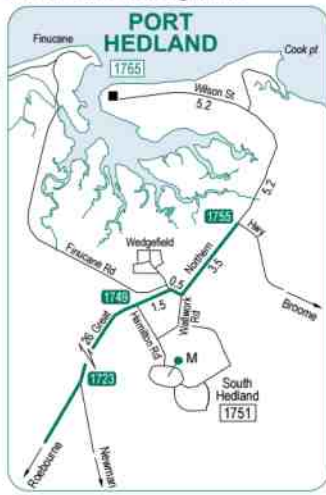
PORT HEDLAND



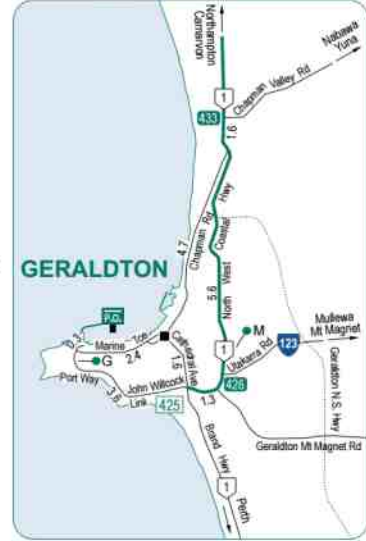
NOTE:
Minor roads in this area may be unsuited and only suitable for off-road vehicles. For further information please contact responsible Local Government.

WARNING:
Roads in this area may be impassable in wet weather. For up to date information on road conditions on highways and main roads, please ring Main Roads 24 hour Customer Call Centre on toll free number: **138 138**
For minor roads, please call the responsible local government office.

Port Hedland enlargement



Geraldton enlargement



Carnarvon enlargement



GERALDTON

See map 13

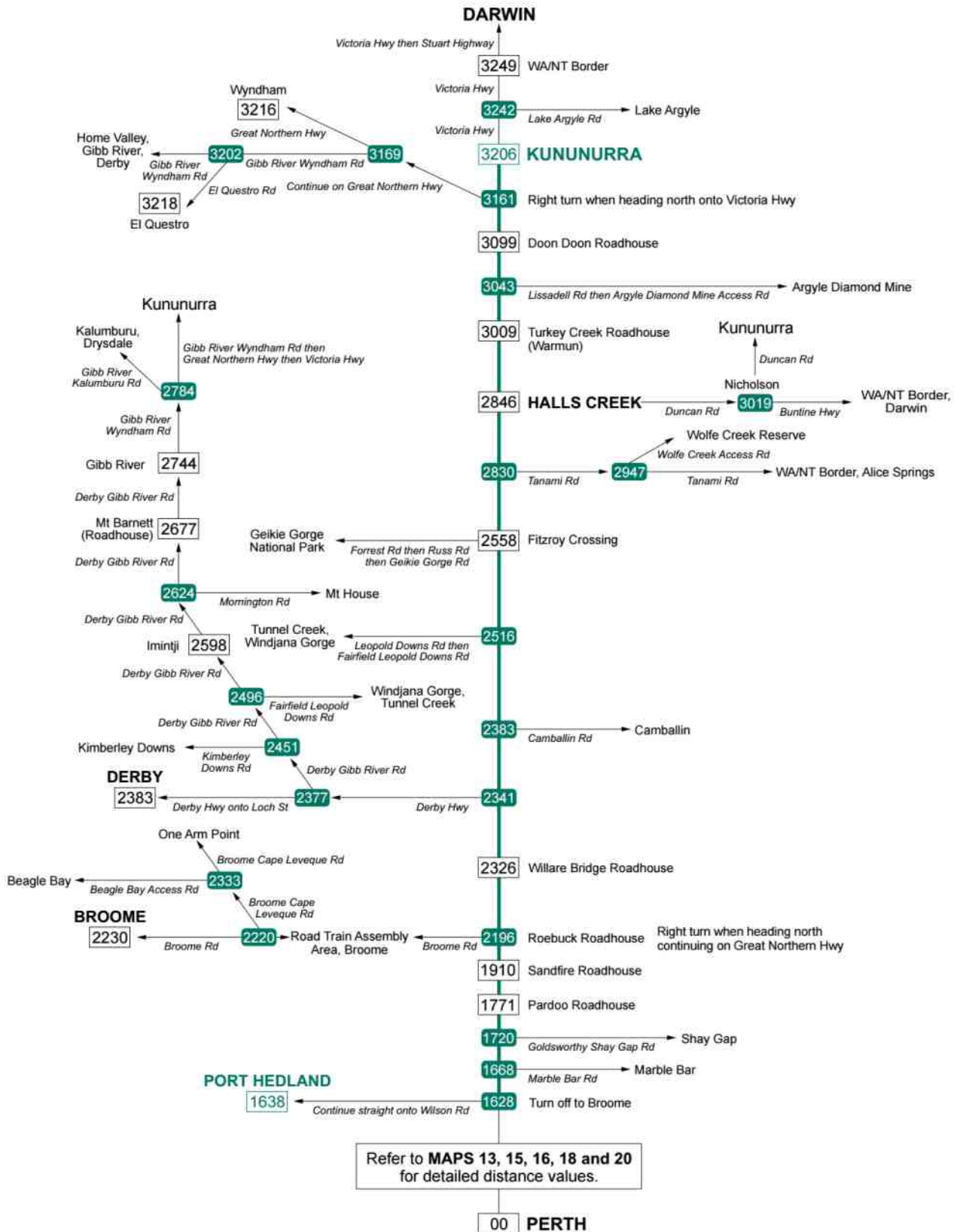
See map 17

See map 14

PORT HEDLAND – KUNUNURRA

VIA HALLS CREEK

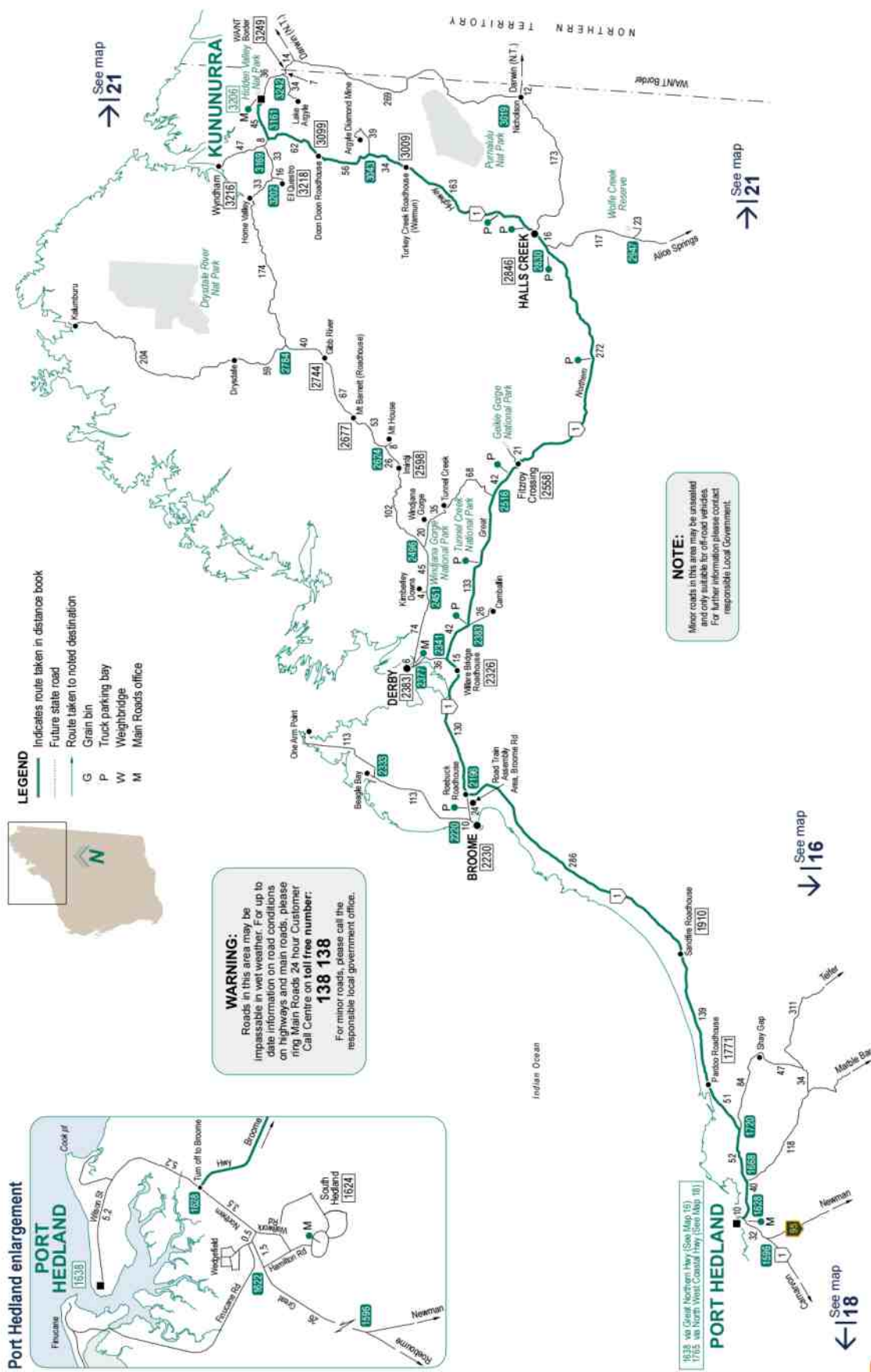
[TURN OFF TO BROOME], Great Northern Hwy (1533), Victoria Hwy (45), [KUNUNURRA], Victoria Hwy (43), [WA/NT BORDER]



The street name on some routes may change through townsites.

PORT HEDLAND – KUNUNURRA

VIA HALLS CREEK



Map 19



DISTANCES IN THE PERTH METROPOLITAN AREA

DISTANCES FROM PERTH C.B.D.

Place Total/destination via/road distance (km)

Armadale	29 km/Orchard Rd	St Georges Tce (0.5), Adelaide Tce (1.3), Causeway (1.1), Shepperton Rd (3.8), Albany Hwy (5.2), Kenwick Link (3.3), Albany Hwy (13.1), Armadale Rd (0.3), Church Av (0.2), Jull St (0.2)
Fremantle	17.7 km/High St Mall	St Georges Tce (0.3), William St (0.8), Riverside Dr (0.6), Mounts Bay Rd (3.7), Stirling Hwy (via Stirling Hwy) (9.9), Queen Victoria St (1.9), Adelaide St (0.4), William St (0.1)
	18.7 km/High St Mall	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (6.2), Canning Hwy (10.2), Queen (via Canning Hwy) Victoria St (0.9), Adelaide St (0.4), William St (0.1)
Joondalup	27.3 km/Cord St	Barrack St (0.4), Wellington St (1.2), Mitchell Fwy (24.2), Hodges Dr (0.5), Joondalup Dr (1)
Kwinana	38.5 km/Challenger Av	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (31.3), Thomas Rd (4.1), Gilmore Av (2.2)
Midland	17.8 km/Lloyd St	Barrack St (0.5), Beaufort St (0.5), Newcastle St (0.6), Lord St (1.4), Guildford Rd (9.3), Bridge St (0.2), James St (1.7), East St (0.5), Great Eastern Hwy (3.1)
Scarborough	14.2 km/West Coast Hwy	Barrack St (0.5), Beaufort St (0.5), Newcastle St (2.0), Loftus St (1.7), Scarborough Beach Rd (9.5)
Wanneroo	29.9 km/Hastings St (via Mitchell Fwy)	Barrack St (0.4), Wellington St (1.2), Mitchell Fwy (21.6), Ocean Reef Rd (3.1), Wanneroo Rd (via Mitchell Fwy) (3.6)
	24.8 km/Hastings St (via Wanneroo Rd)	Barrack St (0.5), Beaufort St (2.2), Walcott St (3.3), Wanneroo Rd (18.8)

To industrial areas: (see map 20)

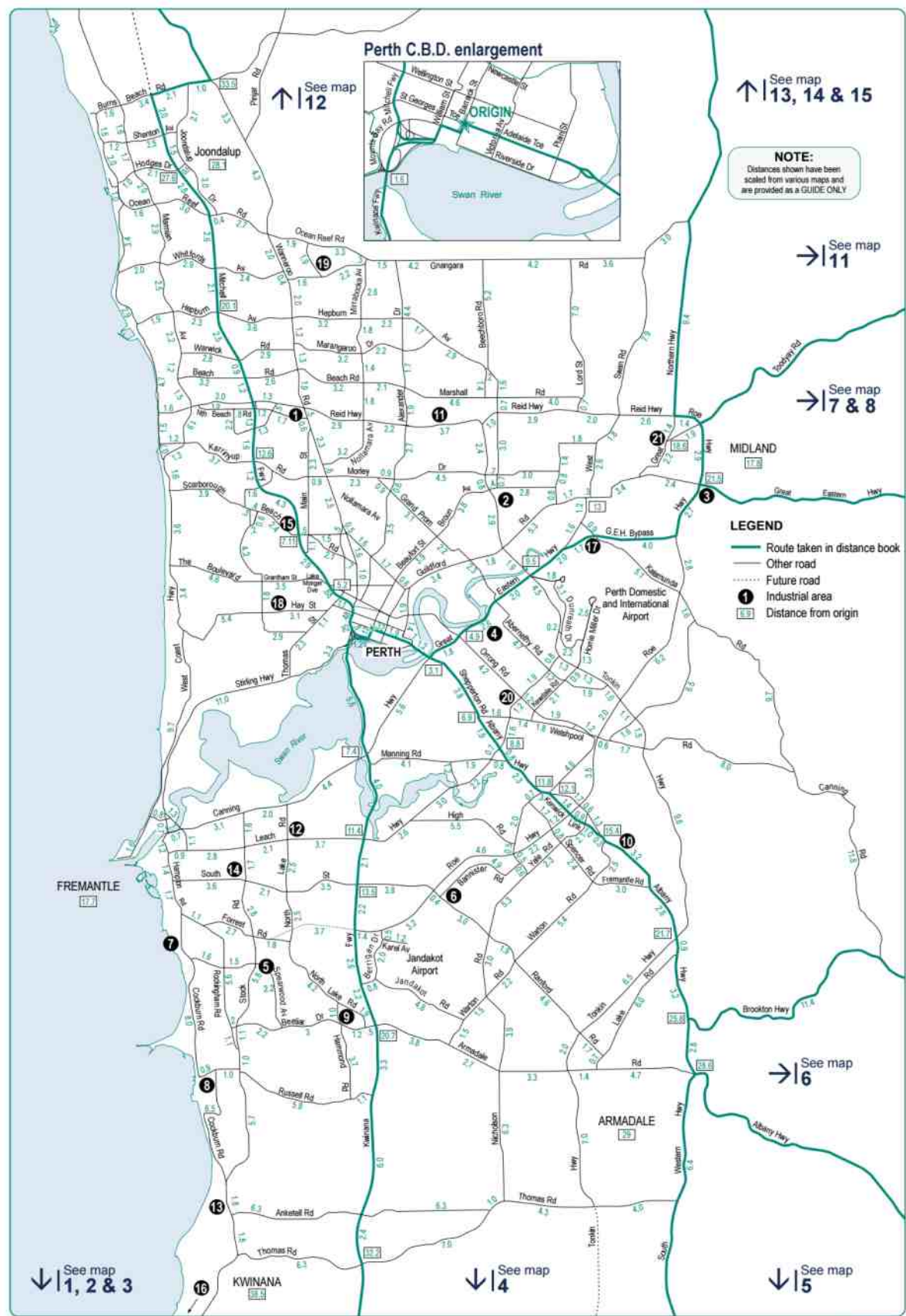
1. Balcatta	12 km/Balcatta Rd	Barrack St (0.5), Beaufort St (2.2), Walcott St (3.3), Wanneroo Rd (6)
2. Bayswater	9.5 km/Tonkin Hwy	Barrack St (0.5), Beaufort St (5.8), Broun Av (1.3), Collier Rd (1.9)
3. Bellevue	21.5 km/Great Eastern Hwy	St Georges Tce (0.5), Adelaide Tce (1.3), Causeway (1.4), Great Eastern Hwy (10), Great Eastern Hwy Bypass (5.6), Roe Hwy (2.7)
4. Belmont	7.8 km/Belmont Av	Barrack St (0.5), Beaufort St (0.5), Newcastle St (0.6), Lord St (0.1), Graham Farmer Fwy (4.1), Orrong Rd (0.6), Francisco St (1.4)
5. Bibra Lake	22.8 km/Spearwood Av	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (14.1), Farrington Rd (3.5), Northlake Rd (1.9), Phoenix Rd (1.6), Stock Rd (0.8)
6. Canning Vale	17.7 km/ Bannister Rd	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (12.7), South St (4.1)
7. Hamilton Hill/ Spearwood	25.7 km/McTaggart Cove	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (10.5), Leach Hwy (5.9), Stock Rd (1.7), South St (3.6), Hampton Rd (1.7), Cockburn Rd (1.4)
8. Henderson	31.9 km/Cockburn Rd	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (23), Russell Rd (6.9), Rockingham Rd (0.1), Russell Rd (1.0)
9. Jandakot	20.7 km/Hammond Rd	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (17.6), Berrigan Dr (1.7), North Lake Rd (0.5)
10. Maddington	16.1 km/Kelvin Rd	St Georges Tce (0.5), Adelaide Tce (1.3), Causeway (1.1), Shepperton Rd (3.8), Albany Hwy (5.2), Kenwick Link (3.3), Albany Hwy (0.9)
11. Malaga	12.7 km/Malaga Dr	Barrack St (0.5), Beaufort St (0.5), Newcastle St (1), Fitzgerald St (2.2), Alexander Dr (6.8), Reid Hwy (1.7)
12. Myaree	15.2 km/North Lake Rd	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (10.5), Leach Hwy (3.8)
13. Naval Base	36.5 km/Beard St	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (28.8), Anketell Rd (6.3), Rockingham Rd (0.5)
14. O'Connor	19 km/South St	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (10.5), Leach Hwy (5.9), Stock Rd (1.7)
15. Osborne Park	6.9 km/ Scarborough Beach Rd	Barrack St (0.4), Wellington St (1.2), Mitchell Fwy (3.8), Powis St (0.5), Harborne St (1)
16. Rockingham	45.4 km/ Dixon Rd	St Georges Tce (0.3), William St (0.6), Kwinana Fwy (31.3), Thomas Rd (6.4), Rockingham Rd (1.2), Patterson Rd (4.5), Ennis Av (1.1)
17. South Guildford	13 km/ Kalamunda Rd	St Georges Tce (0.5), Adelaide Tce (1.3), Causeway (1.4), Great Eastern Hwy (8.1), Great Eastern Hwy Bypass (1.7)
18. Subiaco	4.9 km/Jersey St	St Georges Tce (0.9), Milligan St (0.1), Hay St (3.9)
19. Wangara	19.6 km/Hartman Dr	Barrack St (0.5), Beaufort St (2.2), Walcott St (3.3), Wanneroo Rd (12.5), Gngangara Rd (1.1)
20. Welshpool/Kewdale	10.9 km/Kewdale Rd	Barrack St (0.5), Beaufort St (0.5), Newcastle St (0.6), Lord St (0.1), Graham Farmer Fwy (4.1), Orrong Rd (5.1)
21. Viveash/Middle Swan	18.6 km/Toodyay Rd	Barrack St (0.5), Beaufort St (0.5), Newcastle St (0.6), Lord St (1.4), Guildford Rd (9.3), Bridge St (0.2), James St (1.7), East St (0.5), Great Eastern Hwy (1.5), Morrison Rd (1.1), Great Northern Hwy (1.3)

The distances listed are issued as a GUIDE ONLY. Distances have been determined by scaling off maps along established routes to an approximately central location in each area and rounded to the nearest hundred metre.



DISTANCES IN THE METROPOLITAN AREA

DISTANCES FROM PERTH C.B.D.



Map 20

DISTANCES BETWEEN CAPITAL CITIES IN AUSTRALIA

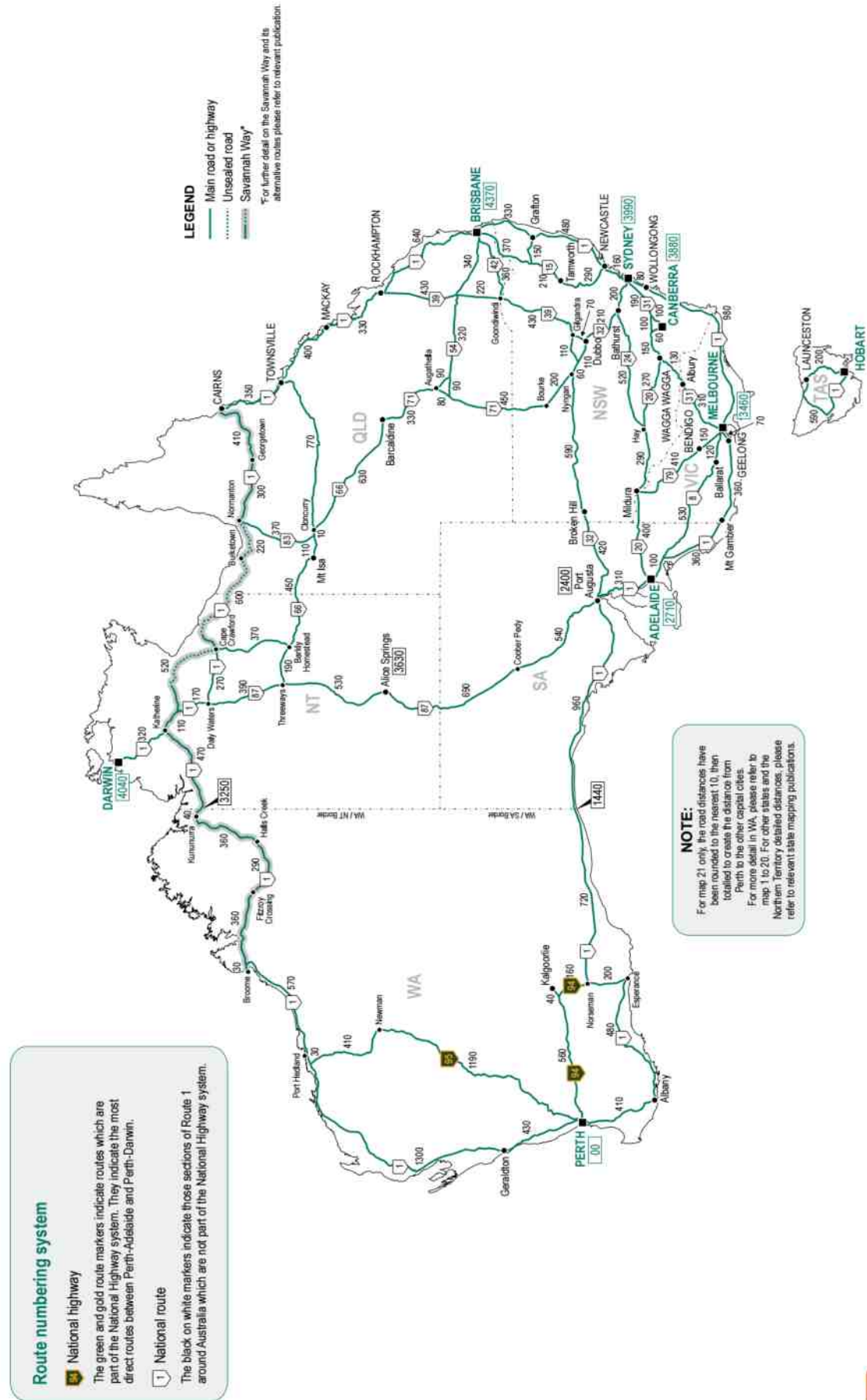
NOTE:

Distances listed are provided as a guide only. Variations will occur depending on route used. All distances are the total of rounded distances on map 21. For Eastern States and Northern Territory detailed distances, please consult relevant state mapping publication.

	Adelaide					
Total distance	2280					
Route taken	20, 24, 32, 39, 42					
	Brisbane					
	1170					
	1260					
	20, 31					
	1, 31					
	Canberra					
	3040					
	3440					
	4290					
	1, 87, 1					
	54, 71, 66, 87, 1					
	31, 32, 71, 66, 87, 1					
	Darwin					
	750					
	1850					
	650					
	3790					
	1, 8					
	1, 31					
	31					
	1, 87, 1, 8					
	Melbourne					
	2710					
	4370					
	3880					
	4040					
	3460					
	1, 94					
	42, 39, 32, 1, 94					
	31, 20, 1, 94					
	1, 95					
	8, 1, 94					
	Perth					
	1410					
	970					
	290					
	4000					
	880					
	3990					
	20, 24, 32					
	1					
	31					
	1, 87, 66, 71, 32					
	31					
	94, 1, 32					
	Sydney					



DISTANCES BETWEEN CAPITAL CITIES IN AUSTRALIA



Map 21



STATE TRAVEL TIME AND DISTANCE CHART

This chart gives approximate travelling times for journeys on National and State Highways and Main Roads for medium weight cars. The times shown are based on travel times of experienced drivers who are generally familiar with the conditions on the roads over which they drive. The times are for weekday travel in daylight hours without stops, with favourable weather conditions and keeping to the posted speed limit. All times have been rounded up to the nearest 15 minutes. Times and distances from Perth are measured from the CBD.

DISCLAIMER

The accuracy of the times provided cannot be guaranteed and Main Roads, its employees and agents expressly disclaim liability for any loss resulting from such. Where no travel time survey was completed, (mainly on local roads) the length and speed limit was used to create suggested travel times.

Travelling times by road (Hours: Minutes)

Albany	4:30	25:15	3:45	13:00	3:00	8:15	26:15	4:45	13:15	16:30	8:30	8:30	19:00	11:15	9:30	4:45	2:45	6:45	4:30	4:45	19:30	3:00	2:30	33:30
370	Augusta	25:15	1:45	12:30	2:15	9:30	26:30	9:00	17:15	16:00	8:00	10:00	18:30	11:30	9:30	4:30	3:45	11:00	5:00	4:15	19:45	7:15	3:30	33:30
2590	2534	Broome	23:45	14:00	24:00	25:45	2:00	27:00	33:45	13:15	18:30	26:15	8:00	14:00	15:45	21:00	22:30	27:15	20:45	22:00	5:45	25:15	22:45	9:15
334	143	2395	Bunbury	11:00	0:45	7:45	25:00	7:00	15:45	14:30	6:30	8:15	17:00	10:00	8:00	2:45	2:15	9:15	3:30	2:25	18:00	5:15	1:45	32:00
1296	1211	1460	1072	Carnarvon	11:15	14:45	14:00	15:45	22:45	3:30	4:45	15:15	6:00	9:45	7:45	8:15	11:00	16:15	9:45	9:45	7:45	14:00	10:30	21:15
300	212	2412	58	1089	Collie	7:15	25:00	6:15	15:00	14:30	6:30	7:45	17:00	10:00	8:15	3:00	1:30	8:45	8:45	2:45	18:15	4:30	1:15	32:15
850	835	2604	699	1420	643	Coolgardie	27:00	3:30	8:00	18:15	10:15	0:30	20:45	12:00	10:00	6:45	5:45	1:30	5:00	6:45	20:00	5:15	6:00	34:00
2743	2690	221	2548	1616	2567	2757	Derby	28:00	34:45	14:00	18:45	27:30	8:45	15:00	17:00	22:15	23:30	28:30	22:00	23:00	7:00	26:15	24:00	8:00
482	846	2810	668	1610	612	368	2981	Esperance	8:30	19:00	11:00	4:00	21:30	13:00	11:15	7:30	5:30	2:00	6:15	7:45	21:15	1:45	5:45	35:15
1392	1709	3478	1573	2295	1517	874	3631	910	Eucla	26:15	18:15	8:15	28:45	19:45	18:00	14:30	13:45	6:30	13:00	14:30	28:00	10:15	14:00	42:00
1651	1566	1374	1427	368	1444	1776	1527	1965	2650	Exmouth	8:00	18:45	5:15	12:45	11:15	11:45	14:15	19:45	13:15	12:30	7:30	17:15	14:00	21:30
819	734	1933	595	482	612	944	2086	1133	1818	838	Geraldton	10:45	10:30	5:00	3:15	3:45	6:15	11:45	5:15	4:30	12:45	9:15	6:00	26:45
876	875	2644	739	1461	683	39	2797	394	899	1816	984	Kalgoorlie	21:15	7:35	10:30	7:15	6:15	2:00	5:30	7:15	20:30	5:45	6:30	34:30
1929	1844	833	1705	637	1722	2054	986	2243	2928	555	1114	1844	Karratha	9:45	11:45	14:15	16:45	22:15	15:45	15:00	2:15	19:45	16:30	16:15
1125	1072	1465	933	1011	950	1141	1618	1345	2013	1289	533	719	1030	Meekatharra	2:00	7:15	8:30	13:30	7:00	8:00	8:15	11:15	9:00	22:15
931	878	1659	739	815	756	945	1812	1151	1819	1171	337	985	1224	196	Mount Magnet	5:15	6:45	11:30	5:00	6:15	10:15	9:30	7:00	24:00
452	367	2171	228	844	245	576	2324	746	1451	1199	367	617	1477	709	515	Muchea	2:45	8:15	1:45	1:00	15:15	5:45	2:30	29:15
281	308	2314	172	1080	116	527	2467	541	1401	1435	603	567	1713	849	655	236	Narrogin	7:15	1:45	2:30	16:45	3:45	0:30	30:45
684	1001	2770	865	1587	908	166	2923	202	708	1942	1110	192	2220	1305	1111	743	693	Norseman	6:30	8:15	21:30	3:45	7:30	35:30
444	403	2146	264	962	281	458	2299	664	1332	1317	485	498	1595	681	487	118	168	624	Northam	1:45	15:00	4:30	2:00	29:00
409	322	2230	173	904	202	556	2383	719	1430	1261	425	595	1538	765	571	60	192	722	97	Perth	16:15	6:00	2:15	30:15
1998	1945	612	1806	871	1823	2012	765	2218	2886	782	1341	2052	241	873	1067	1582	1722	2178	1554	1638	Pt Hedland	19:30	17:00	14:00
293	657	2621	479	1419	423	557	2774	189	1099	1774	942	583	2052	1156	962	557	352	391	475	541	2029	Ravensthorpe	4:00	33:30
249	276	2346	140	1048	84	559	2499	561	1433	1403	571	599	1681	881	687	204	32	725	200	160	1754	372	Williams	31:0
3576	3518	1054	3381	2449	3396	3558	917	3796	4464	2360	2919	3630	1819	2451	2613	3155	3300	3756	3132	3216	1598	3607	3332	Wyndham

Distance by road (Kilometres)

These distances have been obtained by following National and State Highways, main roads and other significant roads and are not necessarily the shortest route.



REGISTERED PUBLIC WEIGHBRIDGES

Location	Owner	Capacity (tonnes)
Metropolitan area		
Armadale – 26 Keates Rd	Auscon Metals Pty Ltd (08) 9497 1340	60
Bayswater – 271 Collier Rd	Cleanaway Bayswater (08) 9272 5572	60
Forrestfield – 521 Dundas Rd	C.D. Dodd Scrap Metal Recyclers (08) 9352 8014	60
Kewdale – 13 Bradford St	Sykes Transport (08) 9353 5577	multi deck
Maddington – 42 Kelvin Rd	All Earth Group Pty Ltd (08) 9459 9588	60
North Fremantle – 3 Birksgate Rd	Pacific Terminals (Australia) Pty Ltd (08) 9335 5222	60
Country		
Broome – 401 Port Dr	Broome Port Authority (08) 9194 3100	50
Kununurra – 672 Weaber Plain Rd	Ordco Agriculture (08) 9168 2255	41
Mandurah – Gordon Rd	Waste Transfer Station City of Mandurah (08) 9582 0147	60
Narngulu – 190 Goulds Rd	Geraldton Seed Services (08) 9923 3698	75
Picton – Cnr Harris Rd and Golding Cres	Kettridges Pty Ltd (08) 9724 6800	70

Source: www.measurement.gov.au

BRIDGES WITH MASS RESTRICTIONS

Location	Maximum Load Posted (t)
Metropolitan area	
Agostino Rd, Armadale	2
Araluen L, Armadale	6
Beaufort St, Perth	17
Claremont Cr, Cottesloe	7
Coronation Rd, Armadale	9
Formosa Rd, S-J*	4
Frederick St, Swan	18
Hamilton St, Subiaco	5
Hogg Rd, Kwinana	30
Kingsbury Dr, S-J*	18
Lightbody Rd, S-J*	12
Orchard Rd, Armadale	5
Seventh Av, Bayswater	8
Stokely Creek Crossing, Gosnells	3
Third Av, Bayswater	10
Thorpe Rd, S-J*	10
Unknown Rd, off 31 Mile Rd, Armadale	2
Unknown Rd, off Gooralong Rd, S-J*	6
Unknown Rd, off Wungong River	
Crossing Rd, S-J*	6
William St, Perth	17
Wungong River Crossing Rd, S-J*	5
Country	
Andrew Rd, Nannup	12
Bannister Rd, Manjimup	16
Barnes Rd, Denmark	2
Beau Sovereign Ct, Murray	7
Bibikin Rd, Dumbleyung	15
Blizzard Rd, Chittering	10
Blue Gum Rd, Albany	3
Boundary Rd, Busseton	2
Boundary Rd, Nannup	5
Brushtail Rd, Nannup	13
Carter Rd, B-G*	2
Coolup East Rd, Murray	10
Cormint Rd, Manjimup	8
Dandenong Form, Harvey	5
Dickson Tower Rd, Nannup	5
Duck Fonti Rd, Manjimup	9
Freeborough Rd, Albany	15
Grasmere – Elleker Rd, Albany	14
Gregory Rd, Manjimup	8
Gregory Rd, Manjimup	2
Hanson Rd, Harvey	6
Havelock St, Narrogin	14
Ivanhoe Rd, Wyndham	
– East Kimberley	15
Jack Trk, Nannup	2
Jackson St, Boyup Brook	10
Karrivale West Rd, Manjimup	9
Lease Rd, Manjimup	3
Logue Brook Rd, Harvey	12
Loverock Rd, Manjimup	10
Mauger Rd, Donnybrook – Balingup	6
McCartney Rd, Greater Geraldton	17
Millars Log Rd, Wandering	4
Minchin Rd, Manjimup	6
Murray Rd, Gingin	7
Norm Rd, Collie	10
Old Coast Rd, Mandurah	17
Old York Rd, Northam	14
Ordinance Rd, Manjimup	9
Panda Rd, Manjimup	4
Panda Rd, Manjimup	5
Patens Rd, Wandering	6
Peppermint Grove Rd, Manjimup	16
Power Line Access, Harvey	7
Pp Bdry Loc 2004, Manjimup	2
Rainbow Downs, Donnybrook	
– Balingup	4
Randall Rd, Wandering	3
Rosedene L, Donnybrook – Balingup	13
Seven Day Rd, Manjimup	5
Stevens Rd, Augusta – Margaret River	18
Stockpile Rd, Manjimup	7
Tom Rd, Nannup	2
Tom Rd, Nannup	4
Unknown Rd, off Yilliminning Rd, Wickepin	2
Unknown Rd, between Paspy & Power Rd, Manjimup	6
Valley View Dr, Chittering	18
Valley View Dr, Chittering	18
Veitch Rd, Bruce Rock	15
Vern Rd [Temp Closed], Murray	2
Vern Rd [Temp Closed], Murray	10
Wellington Dam Rd, Collie	18
Western Power Access Rd, Gingin	2
Wetherley Rd, B-G*	3
NOTE: Subject to change. Please contact Main Roads on 138 138 for the latest information.	
B-G* Bridgetown – Greenbushes	
S-J* Serpentine – Jarrahdale	



OVERHEAD BRIDGE HEIGHTS

A vehicle that alone or together with any load, exceeds a height of 4.3 m is defined as a Restricted Access Vehicle (RAV). A RAV with a height in excess of 4.3 m must operate in accordance with the relevant Class of Notice or Permit issued by Main Roads Western Australia.

The heights listed are the maximum safe clearance and should be used to plan the journey.

Bridges over the Freeways are not included in this list as the Freeways are not available for general use by overheight vehicles or loads.

MAXIMUM PERMITTED HEIGHT OF VEHICLE AND LOAD 4.3 METRES

Metropolitan area

UNDER 5 metres clearance shown thus: **4.80 5m ↓**

Road/location	Structure type	Minimum height (m)	Structure No.
Aberdeen St, WEST PERTH	Freeway Bridge	5.10	9149
Abernethy Rd, FORRESTFIELD	Tonkin Hwy Bridge	5.60	1184
Adelaide Tce, EAST PERTH	Footbridge	5.50	9043
Albany Hwy, BENTLEY	Leach Hwy Bridge	5.30	1100
Albany Hwy, CANNINGTON	Carousel Footbridge	5.30	9070
Albany Hwy, CANNINGTON	Carousel Road Bridge	5.50	1492
Albany Hwy, GOSNELLS	Tonkin Hwy Bridge	5.80	1555
Beach St, FREMANTLE	Fremantle Traffic Bridge	6.60	0916
Beeliar Dr, BEELIAR	Rail Bridge	6.50	5181
Brearely Av, REDCLIFFE	Gantry Sign	4.80 5m ↓	8006
Burns Beach Rd, CURRAMBINE	Rail Bridge	6.10	1547
Canning Hwy, APPLECROSS	Ogilvie Rd Footbridge	5.30	9029
Canning Hwy, APPLECROSS	Gantry Sign	6.20	8017
Causeway, VICTORIA PARK	Canning Hwy Bridge	5.20	0954
Centenary Av, WILSON	Leach Hwy Bridge	4.80 5m ↓	0931
Clayton St, BELLEVUE	Roe Hwy Bridge	5.90	1187
Coode St, BAYSWATER SUBWAY	Rail Bridge	3.80 5m ↓	1285
Corfield St, GOSNELLS	Tonkin Hwy Bridge	5.30	1560
Curtin Av, COTTESLOE	Footbridge	6.20	9023
Dianella Dr, DIANELLA	Footbridge	5.10	9088
Dundas Rd, FORRESTFIELD	Tonkin Hwy Bridge	6.00	1210
Dundas Rd, KALAMUNDA	Daddow Rd Railway Bridge	6.40	5339
Ennis Av, ROCKINGHAM	Safety Bay Rd Bridge	6.00	1490
Gnangara Rd, HENLEY BROOK	Footbridge	6.20	9281
Graylands Rd, CLAREMONT SUBWAY	Rail Bridge	4.00 5m ↓	1290
Graham Farmer Fwy, NORTHBRIDGE	Northbridge Tunnel	4.90 5m ↓	1439
Great Eastern Hwy Bypass, SOUTH GUILDFORD	Rail Bridge	5.60	1298
Great Eastern Hwy, RIVERVALE	Footbridge	5.40	9012
Great Eastern Hwy, RIVERVALE	Rail Bridge	5.30	1574
Guildford Rd, ASHFIELD	Footbridge	5.40	9112
Guildford Rd, BAYSWATER	Tonkin Hwy Bridges	6.50	1205
Guildford Rd, BAYSWATER	Traffic Sign Gantry	5.80	8007
Guildford Rd, MAYLANDS	Sixth Av Footbridge	5.10	9007
Guildford Rd, MT LAWLEY SUBWAY	Rail Bridge	4.20 5m ↓	1286
Hamilton Rd, SPEARWOOD	Rail Bridge	4.90 5m ↓	1650
Hay St, PERTH QV 1	Footbridge	5.00	9349
James St, PERTH CITY	Hamilton Interchange Bridges	5.10	
Leach Hwy, MELVILLE	Footbridge	5.20	9010
Leach Hwy, RIVERTON	Footbridge	5.80	9027
Leach Hwy, ROSSMOYNE	Webb Street Footbridge	5.40	9006
Leach Hwy, WILSON	Wilson Primary School Footbridge	5.40	9026
Maddington Rd, ORANGE GROVE	Tonkin Hwy Bridge	4.10 5m ↓	1124
Market St, WEST PERTH	Freeway Bridges	5.20	1011
Mill Point Rd, SOUTH PERTH	Narrows Bridge	4.80 5m ↓	1481
Millar Rd, WELLARD	Freeway Bridge	6.80	1457
Mounts Bay Rd, Mt Eliza, WEST PERTH	Footbridge	6.50	9011
Mounts Bay Rd, PERTH BUS STATION	Footbridges	5.23	9339
Murray St, City Arcade and David Jones, PERTH CITY	Footbridges	4.10 5m ↓	
Murray St, WEST PERTH	Freeway Bridge	4.80 5m ↓	0924
Nicholson Rd, SUBIACO SUBWAY	Rail Bridges	3.60 5m ↓	1289
Orrong Rd, CANNING	Leach Hwy Bridge	5.70	1594
Orrong Rd, RIVERVALE	Footbridge	6.90	9156
Powis St, GLENDALOUGH	Freeway Bridge	6.00	1018
Powis St, GLENDALOUGH	Footbridge	5.20	9190
Railway Pde, BAYSWATER	Tonkin Hwy Bridge	6.00	1206
Railway Pde, BENTLEY	Leach Hwy Bridge	5.30	0977
Railway Pde, MAYLANDS	Seventh Av Bridge	3.50 5m ↓	0908
Reid Hwy, CARINE	Everingham St Footbridge	6.50	9132
Reid Hwy, CARINE	Pendine St Footbridge	6.50	9133
Reid Hwy, MALAGA	Footbridge	8.00	9121
Reid Hwy, MIRRABOOKA	Mirrabooka Av Underpass	5.90	1699
Reid Hwy, MIRRABOOKA	Northwood Dr Bridge	8.00	1339
Reid Hwy, WESTMINSTER	Arkana Rd Footbridge	6.00	9127



OVERHEAD BRIDGE HEIGHTS (continued)

Metropolitan area

UNDER 5 metres clearance shown thus: **4.80 5m ↓**

Road/location	Structure type	Minimum height (m)	Structure No.
Reid Hwy, WESTMINSTER	Walderton Av Bridge	6.00	1388
Reid Hwy, WESTMINSTER	Wanneroo Rd Bridge	6.00	1404
Riverside Dr, PERTH CITY	Freeway Bridge	4.80 5m ↓	1481
Roe Hwy, BECKENHAM	Brixton St Bridge	6.50	1423
Roe Hwy, BECKENHAM	Footbridge	6.60	9178
Roe Hwy, BECKENHAM	Rail Bridge	6.80	1403
Roe Hwy, BECKENHAM	Albany Hwy	7.00	1409
Roe Hwy, BECKENHAM	Kenwick Link	5.90	1397
Roe Hwy, CANNINGVALE	Nicholson Rd	6.10	1484
Roe Hwy, CANNINGVALE	Willeri Dr Bridge	6.00	1483
Roe Hwy, HAZELMERE	Bushmead Rd Bridge	5.90	1188
Roe Hwy, LANGFORD	Spencer Rd	6.70	1485
Roe Hwy, LANGFORD	Cameron St Footbridge	6.60	9241
Roe Hwy, MAIDA VALE	Maida Vale Rd Bridge	5.80	1157
Roe Hwy, FORRESTFIELD	Berkshire Rd Footbridge	5.30	9092
Roe St to Art Gallery, PERTH CITY	Footbridge	4.60 5m ↓	9335
Roe St, WEST PERTH	Freeway Bridge	5.10	1012
Scarborough Beach Rd, MT HAWTHORN	Footbridge	5.40	9038
Scarborough Beach Rd, OSBORNE PARK	Rail Bridge	5.20	1508
Scarborough Beach Rd, OSBORNE PARK	Freeway Bridge	5.50	1017
Sevenoaks St, BENTLEY	Leach Hwy Bridge	5.40	0977
Shepperton Rd, EAST VICTORIA PARK	Footbridge	5.30	9052
South Street LEEMING	Footbridge	6.10	9314
South Street CANNING VALE	Roe Hwy Bridge	6.10	1487
St Peters Rd, EAST FREMANTLE	Stirling Hwy Bridge	4.60 5m ↓	0942
Stirling Hwy, CLAREMONT	Footbridge	5.30	9009
Stirling Hwy, COTTESLOE	Footbridge	5.40	9033
Stirling Hwy, PERTH SWAN BREWERY	Footbridge	5.40	9218
Stirling Rd, CLAREMONT SUBWAY	Rail Bridge	3.90 5m ↓	1292
Stock Rd, HAMILTON HILL	Footbridge	5.40	9023
Sutherland St, WEST PERTH SUBWAY	Rail Bridge	3.80 5m ↓	1287
Tonkin Hwy, BAYSWATER	Broun Av Bridge	5.80	1186
Tonkin Hwy, MORLEY	Footbridge	6.10	9122
Tonkin Hwy, REDCLIFFE	Victoria St Footbridge	6.10	9100
Tonkin Hwy, REDCLIFFE	Stanton Rd Bridge	5.80	1194
Tonkin Hwy, REDCLIFFE	Great Eastern Hwy Bridge	5.80	1201
Tonkin Hwy, WELSHPOOL	Roe Hwy Bridge	5.80	1345
Tydemian Rd, NORTH FREMANTLE	Rail Bridge	5.80	1631
Victoria Quay Rd, FREMANTLE	Rail Bridge	6.10	5217
Vincent St, LEEDERVILLE	Freeway Bridge	6.70	1015
Wanneroo Rd, TUART HILL	Footbridge	5.40	9037
Wellington St, Forrest Place, PERTH CITY	Footbridge East	4.80 5m ↓	9333
Wellington St, Raine Square, PERTH CITY	Footbridge	5.20	9101
Wellington St, ROYAL PERTH HOSPITAL	Footbridge	5.40	9340
Wellington St, WEST PERTH	Freeway Bridge	5.30	0994
Welshpool Rd, WELSHPOOL	Roe Hwy Bridge	6.00	1422
West Coast Hwy, SWANBOURNE	Langoullant Rd Bridge	8.00	1448
Whatley Cres, MAYLANDS	Seventh Av Bridge	3.30 5m ↓	0908
Yelverton Dr, EAST MIDLAND	Footbridge	4.40 5m ↓	

Country area

Mandurah Rd, MANDURAH	Coodanup Dr Footbridge	5.80	9108
Mandurah Rd, MANDURAH	Gordon Rd Footbridge	6.50	9128
Burt St, KALGOORLIE	Rail Bridge	3.90 5m ↓	5303
Fitzgerald St, NORTHAM	Rail Bridge	6.20	
Goomalling Rd, NORTHAM	Northam Bypass, Great Eastern Hwy Bridge	5.60	1465
Mitchell Av, NORTHAM	Rail Bridge	6.30	
Great Eastern Hwy, YERBILLON	Rail Bridge	5.80	1575
Harper Rd, TOODYAY TOWNSITE	Rail Bridge	5.30	1647
Irishtown Rd, NORTHAM	Northam Bypass, Great Eastern Hwy Bridge	5.80	1466
John Willcock Link (Portway), GERALDTON	Brand Hwy Bridge	6.50	1553
Katrine Rd, NORTHAM	Northam Bypass, Great Eastern Hwy Bridge	5.70	1167
Mine Rd, TOM PRICE	Rail Bridge	4.50 5m ↓	1653
Nanga Brook Rd, EAST WAROONA	Road Tunnel	4.80 5m ↓	5283
North West Coastal Hwy, GERALDTON	Durlacher St Bridge	7.20	1522
Pinjarra Rd, NORTH YUNDERUP	Forrest Hwy Bridge	6.45	1611
Eadine Rd, CLACKLINE	Great Eastern Hwy Bridge (Berry Hill)	4.60 5m ↓	1047
South Western Hwy, MANJIMUP	Welcome to Manjimup Sign	5.50	8033
South Western Hwy, MUNDIJONG	Rail Bridge	5.30	1599
Clackline-Toodyay Rd, CLACKLINE	Great Eastern Hwy Bridge	4.80 5m ↓	1046
Northam-Toodyay Rd, NORTHAM	Northam Bypass, Great Eastern Hwy Bridge	5.80	1469
Victoria Hwy, KUNUNURRA	Gantry Crane	4.50 5m ↓	1242
Williamstown Rd, KALGOORLIE	Conveyor	5.40	
Willinge Dr, MANDURAH	Australind Bypass Bridge	6.10	1651

FOCAL POINT MARKERS

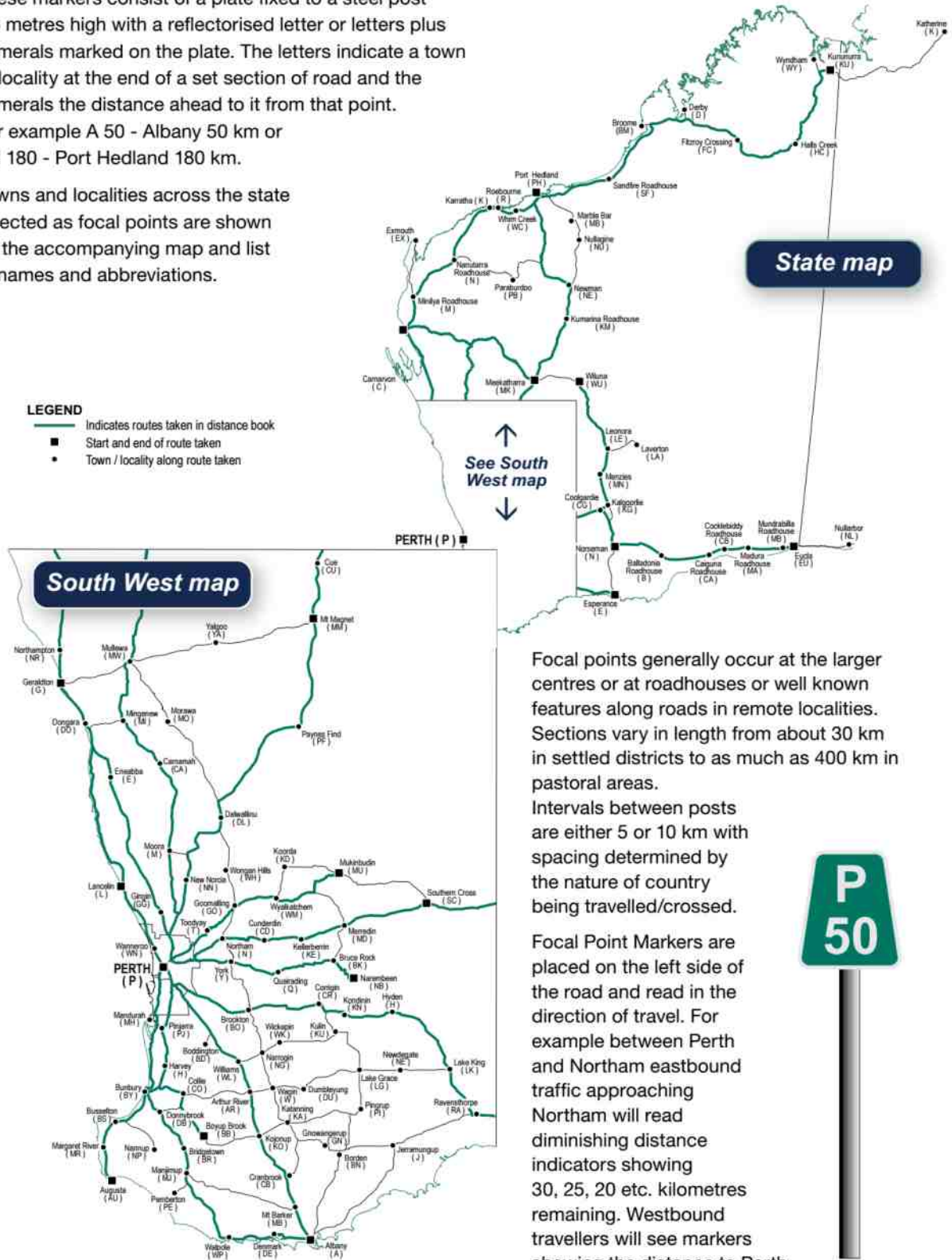
LOCATIONS AND ABBREVIATIONS

To assist the road users and improve safety many varied types of road signs are used. One common and important sign erected on the principal road network is a distance marker also known as the focal point marker.

These markers consist of a plate fixed to a steel post 1.5 metres high with a reflectorised letter or letters plus numerals marked on the plate. The letters indicate a town or locality at the end of a set section of road and the numerals the distance ahead to it from that point.

For example A 50 - Albany 50 km or PH 180 - Port Hedland 180 km.

Towns and localities across the state selected as focal points are shown on the accompanying map and list of names and abbreviations.





FOCAL POINT NAMES AND ABBREVIATIONS

ALPHABETICAL LIST

AAlbany	GGGingin	NNanutarra
AR.....Arthur River	GNGnowangerup	NBNarembeen
AU.....Augusta	GOGoomalling	NGNarrogin
BBadgingarra	HCHalls Creek	NE.....Newman
BBalladonia	HHarvey	NNNew Norcia
BE.....Beverley	HHyden	NE.....Newdegate
BD.....Boddington	J.....Jerramungup	NNorseman
BNBorden	KB.....Kalbarri	NNortham
BB.....Boyup Brook	KGKalgoorlie	NRNorthampton
BR.....Bridgetown	KKarratha	NCNorthcliffe
BOBrookton	KA.....Katanning	NLNullarbor (S.A.)
BMBroome	KKatherine (N.T.)	NUNullagine
BK.....Bruce Rock	KE.....Kellerberrin	OVOverlander Roadhouse
BY.....Bunbury	KOKojonup	PB.....Paraburdoo
BS.....Busselton	KN.....Kondinin	PFPaynes Find
CA.....Caiguna	KD.....Koorda	PEPemberton
CA.....Carnamah	KU.....Kulin	PPerth
CCarnarvon	KMKumarina	PGPingelly
CCataby	KU.....Kununurra	PIPingrup
CY.....Cocklebiddy Roadhouse	LG.....Lake Grace	PJPinjarra
COCollie	LKLake King	PH.....Port Hedland
CGCoolgardie	LLancelin	QQuairading
CRCorrigin	LALaverton	RA.....Ravensthorpe
CBCranbrook	LELeonora	RRoebourne
CUCue	MAMadura	SC.....Southern Cross
CDCunderdin	MH.....Mandurah	SFSandfire Roadhouse
CW.....Coorow	MJ.....Manjimup	TSThree Springs
DL.....Dalwallinu	MBMarble Bar	TToodyay
DK.....Darken	MR.....Margaret River	VVarley
DE.....Denmark	MKMeekatharra	WWagin
DDerby	MN.....Menzies	WPWalpole
DODongara	MD.....Merredin	WN.....Wanneroo
DB.....Donnybrook	MIMingenew	WR.....Warooka
DUDumbleyung	MMinilya	WC.....Whim Creek
EEneabba	MMoora	WK.....Wickepin
EEsperance	MO.....Morawa	WLWilliams
EU.....Eucla	MBMount Barker	WU.....Wiluna
EX.....Exmouth	MMMount Magnet	WH.....Wongan Hills
FC.....Fitzroy Crossing	MU.....Mukinbudin	WMWyalkatchem
FFortescue River	MWMullewa	WY.....Wyndham
Roadhouse	MBMundrabilla	YAYalgoo
G.....Geraldton	NP.....Nannup	YYork



ONLINE REFERENCES

The internet is a valuable source of up to date travelling information. Topics of interest are listed, and an internet address is provided. A suggested navigation path is also listed to help in getting to the desired web page.

MAIN ROADS WA ONLINE REFERENCES

www.mainroads.wa.gov.au 138 138

Distance Book	Digital Version	Using Roads > Touring WA & Maps > Distance Book
Heavy Vehicles	Heavy Vehicle Operations (HVO) is responsible for providing safe, efficient and sustainable heavy vehicle access to WA's road network	Using Roads > Heavy Vehicles
Rest Area brochure	The following guide lists the rest areas and facilities in Western Australia	Using Roads > Touring WA & Maps > Rest Areas
Road Closures and Road Conditions	Information for all planned roadworks, closures and events is provided on a weekly basis for WA. Some works may be undertaken on an adhoc basis should emergencies or incidents occur, in which case the information may not be provided below	Using Roads > Road & Traffic Information > Roadworks and road closures
Road Information mapping system (RIM)	Online mapping information	Using Roads > Our Roads > Road Information Mapping
Traffic Digest (Traffic Volumes)	State wide information on Traffic Data, Speed research and Road Statistics	Using Roads>Our Roads>Facts and Figures

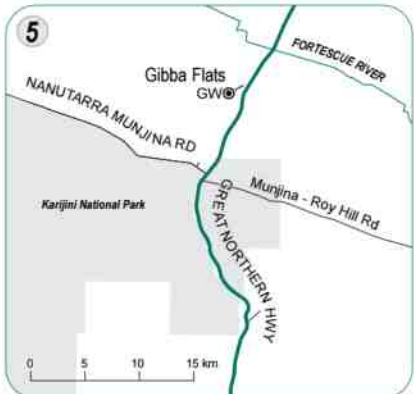
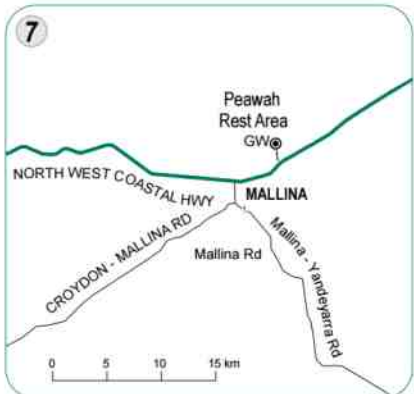
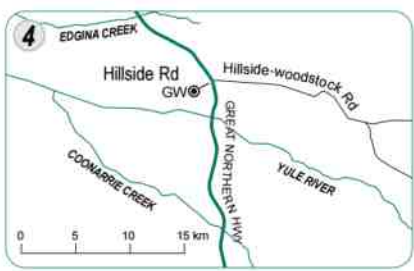
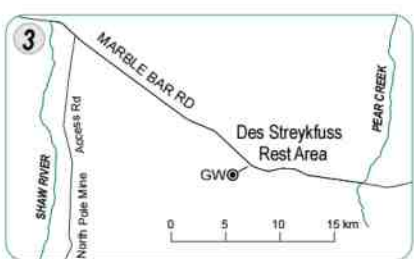
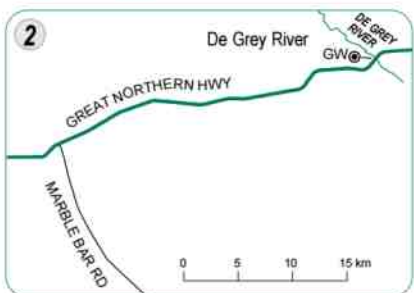
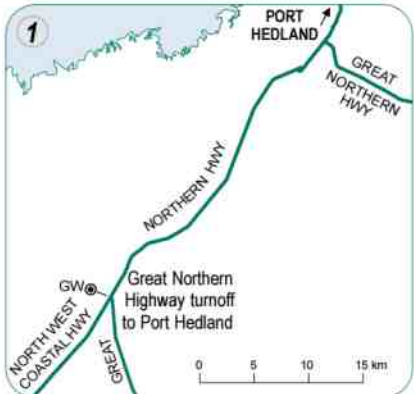
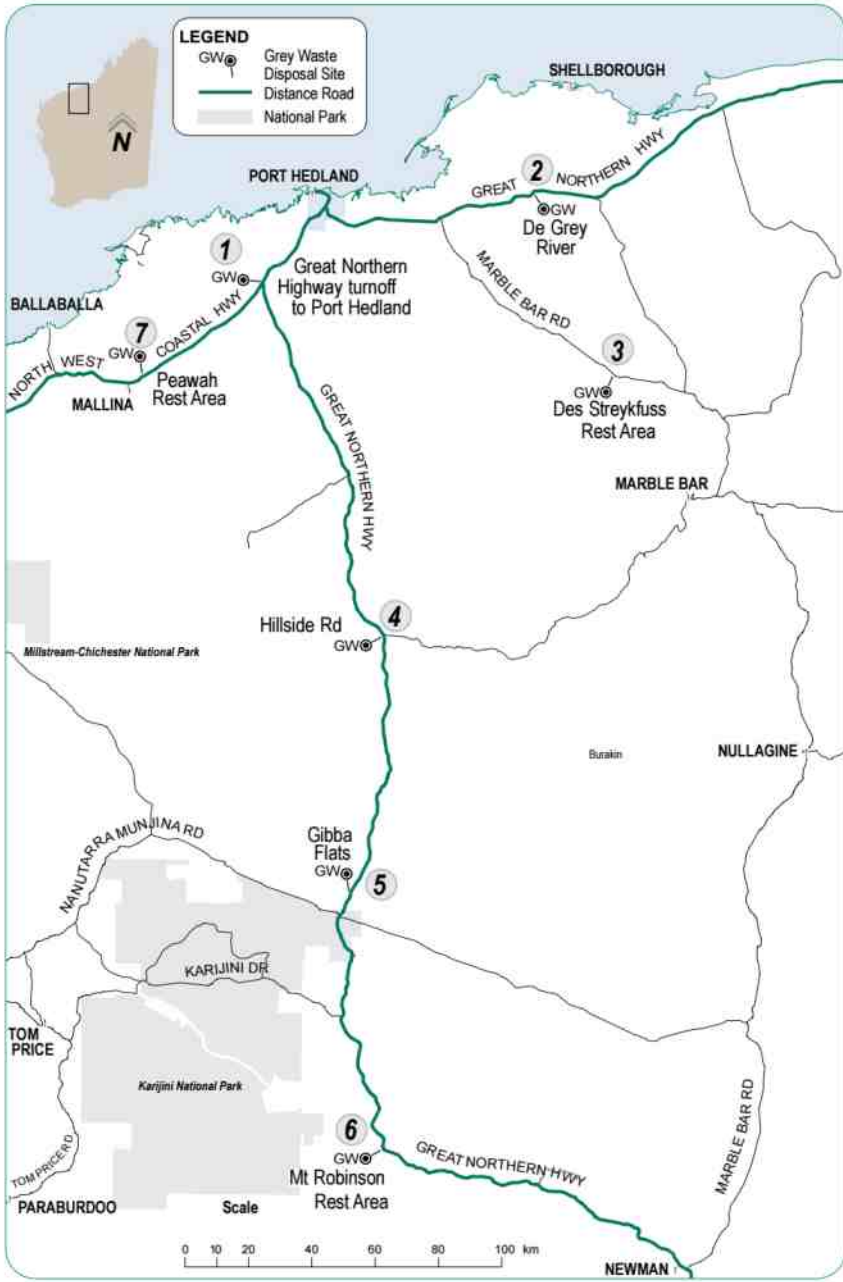


OTHER ONLINE REFERENCES

Mine sites	For up to date information on mines, mineral deposits and prospects, including mapping.	Website: www.dmp.wa.gov.au Online Systems > Mines and Mineral deposits (MINEDEX) or: http://minedexext.dmp.wa.gov.au/minedex/external/common/appMain.jsp
Permits to travel on aboriginal owned roads in Western Australia	Aboriginal lands are privately owned and as such you will need a permit to travel on roads within them. Please read all the online information about the type of permit you need and the conditions that apply to it.	Website: www.dia.wa.gov.au Click on: Entering Aboriginal land > Apply for a permit online
Travelling through pastoral areas	The Department of Regional Development and Lands' advise on travelling through pastoral leases and hints on journey preparation.	Website: www.lands.rdl.wa.gov.au Click on: Pastoral leases > Guidelines, Policies & Publications
Weighbridges	Information on Weighbridges can be found at the National Measurement Institute (NMI). NMI is responsible for Australia's units and standards of measurement and relevant information on Public Weighbridges can be found at this website.	Website: www.measurement.gov.au Click on: Trade Measurement > Licensees > Public Weighbridge Licensees



GREY WASTE DISPOSAL SITES



**Main Roads 24 hour customer information centre
for up to date information on road conditions**

138 138

Fax: (08) 9323 4430

Email: enquiries@mainroads.wa.gov.au

Main Roads

Don Aitken Centre

Waterloo Crescent

East Perth WA 6004

P: 138 138 | F: (08) 9311 4430

Heavy Vehicle Operations:

Main Roads Western Australia

525 Great Eastern Highway

Redcliffe WA 6104

P: 138 HVO (138 486) | F: (08) 9311 8455 | E: hvo@mainroads.wa.gov.au

To view this book online and other information:

www.mainroads.wa.gov.au

Please report any damage to roadside rest area facilities,
signs or road surface to Main Roads Western Australia.

FREECALL

1800 800 009

(except from mobiles)

Follow us on Twitter for latest information on traffic and road conditions:



Perth Traffic (www.twitter.com/perth_traffic)



WA Roads (www.twitter.com/wa_roads)



More information on what's happening
around WA, SCAN for information on
Metro and Regional Road Alerts





Animal Alert

Many of the major rural highways are unfenced due to the vast expanse of land, therefore no barriers are present to prevent wild or pastoral animals wandering across the road.



- Be alert for animals on the road, particularly dusk and dawn.
- Watch out for warning signs on the road, different regions have different animals.
- Slow down and sound your horn if you encounter an animal.

Main Roads Western Australia
Don Aitken Centre, Waterloo Crescent, East Perth WA 6004
Phone 138 138 | www.mainroads.wa.gov.au

Please be aware that while every effort is made to ensure the currency of the information, data can be altered subsequent to original distribution and can also become quickly out-of-date. Information provided on this publication is also available on the Main Roads website. Please subscribe to the Rest Areas page for any updates.



A Guide to Main Roads rest areas and roadside amenities

ON MAJOR ROUTES IN WESTERN AUSTRALIA



MARCH 2015



Fatigue is a silent killer on Western Australian roads. Planning ahead is crucial to managing fatigue on long road trips.

Distances between remote towns can be vast and in some cases conditions can be very hot and dry with limited fuel, water and food available.

We want you to enjoy your journey but more importantly we want you to stay safe.

Manage Fatigue

Look out for warning signs and make sure you know what to do if you feel fatigued.

Early danger signs of fatigue include:

- Wandering or disconnected thoughts
- Missing a gear, road sign or exit
- Slowing unintentionally
- Braking too late

If you:

- Are yawning
- Are blinking more than usual
- Are having trouble keeping your head up
- Notice your eyes closing for a moment or going out of focus
- Forget driving the last few kilometres

Stop Have a break or coffee
Swap drivers if possible
Have a short sleep

Maps Disclaimer

The maps contained within this Rest Area Guide provide approximate times and distances for journeys and their accuracy cannot be guaranteed. It is recommended that users exercise their own skill and care with respect to their travel plans. Main Roads, its employees and agents accept no legal liability whatsoever arising from or in connection with the accuracy, reliability, currency or completeness of the material.

Roadside Stopping Places

A roadside stopping place is an area beside the road designed to provide a safe place for emergency stopping or special stopping (e.g. rest areas, scenic lookouts, information bays, road train assembly areas). Entry signs indicate what type of roadside stopping place it is. Facilities within each vary.



Rest area



24 hour rest area



Information



Parking

Rest Areas

A rest area is a type of stopping place which provides additional facilities that may not be available at short term parking spots or information bays. This guide provides information on rest areas only, however we encourage drivers to stop and rest at any of the roadside stopping places available.

Signs showing relevant facilities that may be available in a stopping place or rest area:



Effluent dump site



Facility for people with disability



Toilets



Shelter



Picnic area



Information

Blackwater may only be disposed of in rest areas displaying the effluent dump point sign or be taken to the nearest town and disposed of at a dump site. Waste should not be dumped into river water catchments or any of the toilets provided in rest areas.

24 Hour Rest Areas

24 hour rest areas are not intended for camping and stopping is NOT to exceed more than 24 consecutive hours.



How to use this guide

This guide lists the rest areas and amenities provided by Main Roads on 17 major routes to enable you to manage fatigue whilst travelling. The maps in this guide are not to scale and should only be used as a supplement to other sources of route information.

Map symbols

- Road
- Town
- Rest area
- Roadhouse
- Rest area maintained by others
- North point

Travel Check List

- ☐ Check traffic, weather and road conditions before you leave
- ☐ Pack extra food, water and fuel in case of emergency or breakdown, especially when rest stops are limited
- ☐ Give your itinerary to someone in case of an emergency
- ☐ If you have a mobile phone check your coverage en-route to your destination
- ☐ Download useful travel apps
- ☐ If you have a two way radio, tune in to Channel 40 for road user communication



Check roads for incidents affecting your journey

follow us on Twitter

twitter.com/wa_roads

twitter.com/perth_traffic



Look out for these signs. Stop, stretch and enjoy a free tea or coffee.

Contacts

Western Australia's (WA) road system covers vast distances through some of the most remote and uninhabited regions of the world. Conditions can vary, from cyclones and flooding in the north to bush fires in the wooded regions of the east and south-west of the country. Planning for your trip is important and the following information may assist in planning a safe journey.

Organisation	Phone	Website	Call for
Main Roads Western Australia	138 138	www.mainroads.wa.gov.au	General road enquiries, touring maps, rest area maps, animals on the road
	138 486		Heavy vehicle queries, sharing the road with trucks
Emergency	000		Emergency, life-threatening situations
Bureau of Meteorology (BoM)	1300 659 210	www.bom.gov.au	Weather, cyclone advice
Caravan Industry Association (CIA)	9358 5622	www.caravanwa.com.au	Travel tips, towing guide, caravan park information
Department of Fire and Emergency Services (DFES)	133 337	www.dfes.wa.gov.au	Natural disasters, bush fire, flood and cyclone warnings. Standard emergency warning signal
	1800 709 355		Fire ban information
Department of Parks and Wildlife (DPaW)	9219 9000	www.dpaw.wa.gov.au	Park brochures and guides
Office of Road Safety	9323 4688	www.ors.wa.gov.au	Road safety advice
Police	131 444	www.police.wa.gov.au	Non-emergency 24 hour Police assistance
Royal Automobile Club (RAC) WA	131 703	www.rac.com.au	Emergency Roadside Assistance, touring information
Western Australian Visitor Centres	9483 1111	www.westernaustralia.com	Information and maps on exploring Western Australia
WA Local Government Association (WALGA)	9213 2000	www.walga.asn.au	Local shires and council directory



Reference Map



Be fire aware.
Ensure all fireplaces
or barbeques are put
out before you leave.

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01	Perth to Geraldton (via Indian Ocean Drive and Brand Highway)	7
02	Perth to Geraldton (via Great Northern Highway and Brand Highway)	9
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04	Perth to Mt Magnet (via Great Northern Highway)	13
05	Mt Magnet to Port Hedland (via Great Northern Highway)	15
06	Port Hedland to Kununurra (via Great Northern Highway)	17
07	Derby to Kununurra (via Gibb River Road)	19
08	Perth to Augusta (via Forrest Highway and Bussell Highway)	21
09	Bunbury to Collie (via South Western Highway and Coalfields Highway)	23
10	Bunbury to Albany (via South Western Highway)	25
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12	Albany to Esperance (via South Coast Highway)	29
13	Perth to Esperance (via Brookton Highway and South Coast Highway)	31
14	Perth to Kalgoorlie (via Great Eastern Highway)	33
15	Kalgoorlie to Esperance (via Goldfields Highway and Coolgardie Esperance Highway)	35
16	Norseman to Eucalia (via Eyre Highway)	37
17	Geraldton Kalgoorlie/Boulder (via Mt Magnet and Goldfields Highway)	39



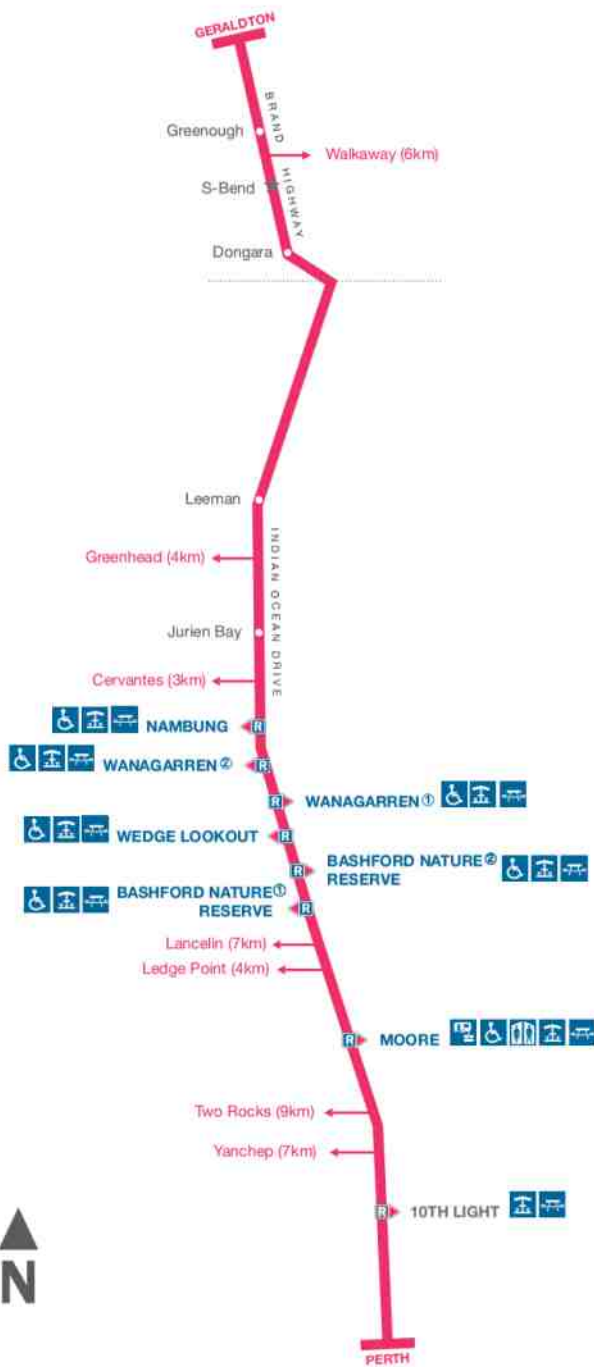
MAP
1

PERTH TO GERALDTON
VIA INDIAN OCEAN DRIVE
AND BRAND HIGHWAY

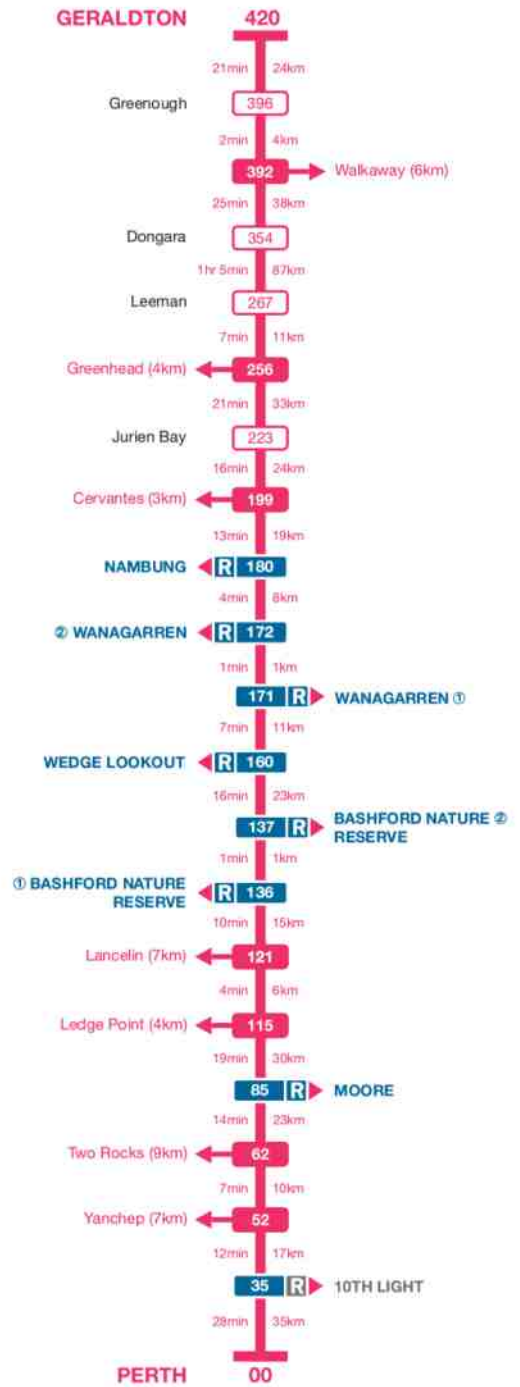
420km

4hr 51min

DISTANCE GUIDE



7



8



MAP
2

PERTH TO GERALDTON
VIA GREAT NORTHERN HIGHWAY
AND BRAND HIGHWAY

425km

4hr 51min

DISTANCE GUIDE



GERALDTON	425
	21min 24km
Greenough	401
	2min 4km
	397 → Walkaway (6km)
	25min 38km
Dongara	359
	34min 49km
ARROWSMITH	310
	19min 31km
Eneabba	279
	30min 50km
	229 R → COOMALLO
	15min 24km
Badgingarra	205
	46min 75km
Regan's Ford	130
	1min 2km
REGAN'S FORD	128
	26min 43km
	85 → Gingin (4km)
	18min 30km
Muchea	55
	11min 13km
Bullsbrook	42
	43min 42km
PERTH	00



MAP
3

GERALDTON TO
PORT HEDLAND
VIA NORTH WEST COASTAL HIGHWAY

1341km

13hr 59min

DISTANCE GUIDE



PORT HEDLAND	1341
	17min 16km
	1325 → South Hedland (5km)
	32min 49km
YULE	← R 1276
	18min 29km
PEAWAH	← R 1247
	15min 25km
Whim Creek	1222
	54min 85km
Roebourne	1137
	20min 32km
Karratha (7km)	← 1105
	1hr 5min 105km
	1000 R FORTESCUE BRIDGE
	27min 44km
ROBE RIVER	← R 956
	1hr 13min 120km
	836 R ASHBURTON RIVER
	43min 71km
YANNARIE RIVER (BARRADALE)	← R 765
	23min 38km
	727 R BURKETT ROAD
	42min 69km
LYNDON	← R 658
	30min 49km
MINILYA	← R 609
	30min 49km
YALABIA	← R 560
	52min 85km
Carnarvon (6km)	← 475
	47min 77km
	398 R EDAGEE
	2hr 9min 211km
NERREN NERREN	← R 187
	45min 74km
	113 R GALENA
	38min 61km
Northampton	52
	39min 52km
GERALDTON	00

11

12



MAP
4

PERTH TO MT MAGNET
VIA GREAT NORTHERN HIGHWAY

568km

6hr 28min

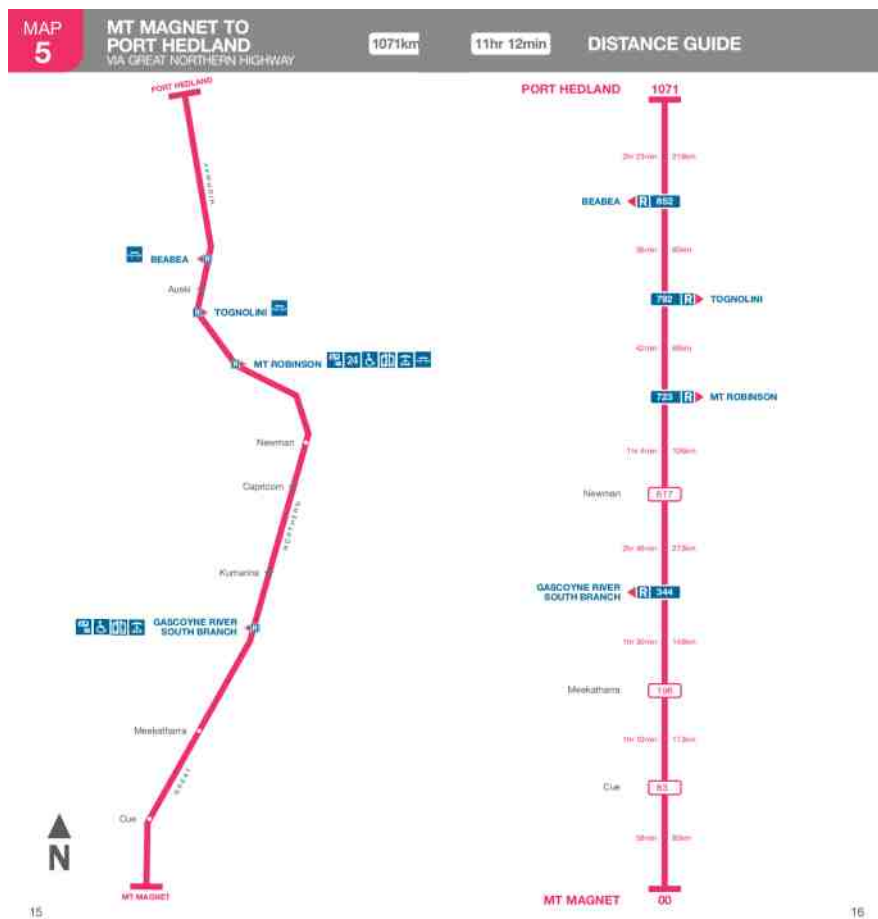
DISTANCE GUIDE



13



14





MAP
6

PORT HEDLAND TO
KUNUNURRA
VIA GREAT NORTHERN HIGHWAY

1587km

16hr 32min

DISTANCE GUIDE





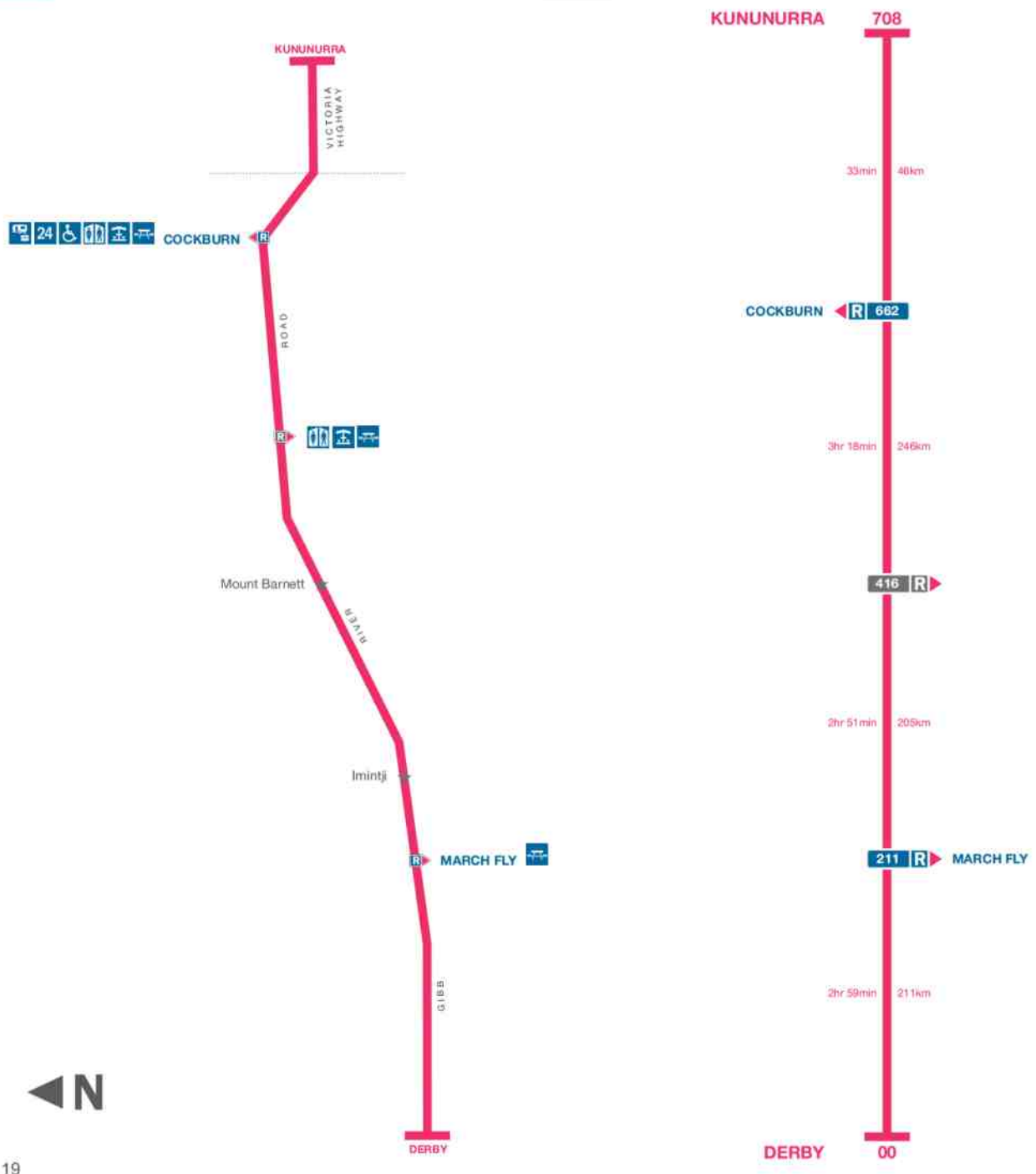
MAP
7

DERBY TO KUNUNURRA
VIA GIBB RIVER ROAD

708km

9hr 41min

DISTANCE GUIDE





MAP
8

PERTH TO AUGUSTA
VIA FORREST HIGHWAY
AND BUSSELL HIGHWAY

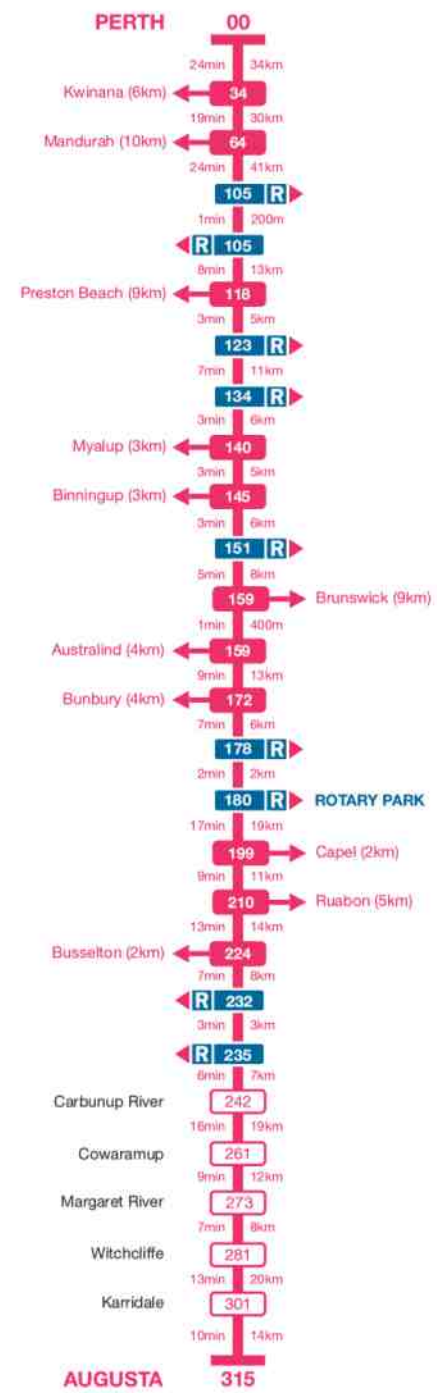
315km

3hr 44min

DISTANCE GUIDE



21



22



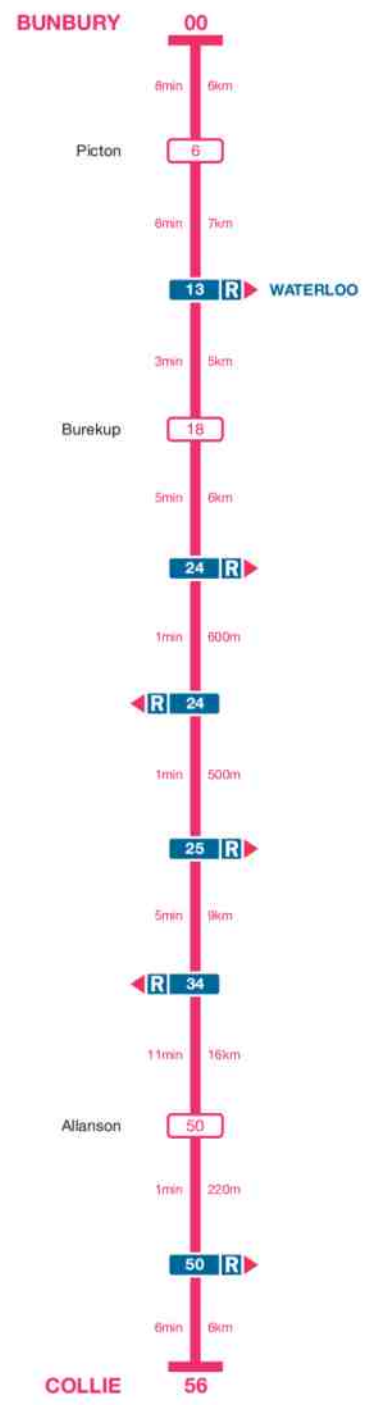
MAP
9

BUNBURY TO COLLIE
VIA SOUTH WESTERN HIGHWAY
AND COALFIELDS HIGHWAY

56km

47min

DISTANCE GUIDE





MAP
10

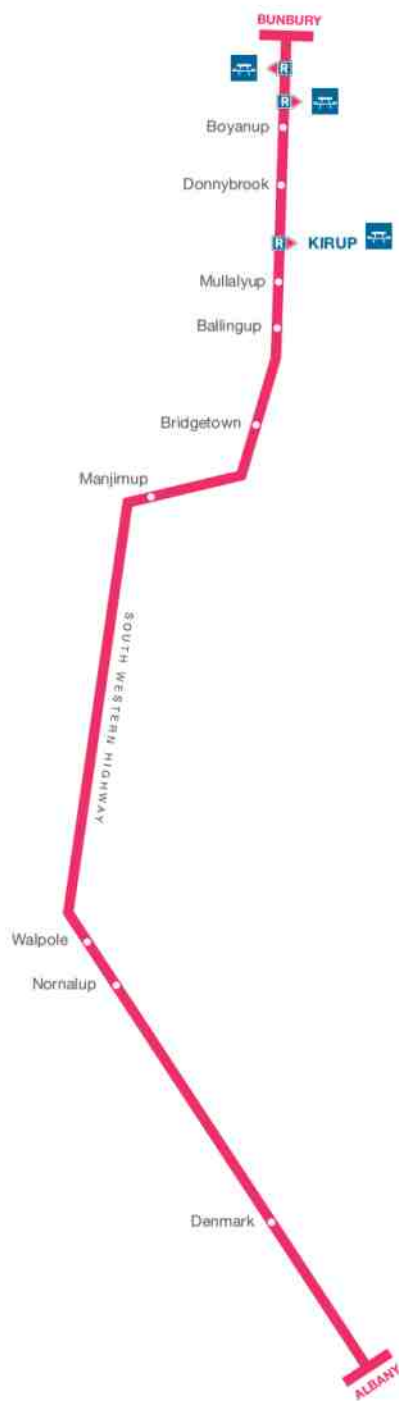
BUNBURY TO ALBANY

VIA SOUTH WESTERN HIGHWAY

364km

4hr 40min

DISTANCE GUIDE



BUNBURY	00
	10min 7km
	R 7
	5min 7km
	14 R
	5min 7km
Boyanup	21
	12min 15km
Donnybrook	36
	12min 17km
	53 R KIRUP
	6min 7km
Mullalyup	60
	5min 6km
Balingup	66
	17min 26km
Bridgetown	92
	27min 36km
Manjimup	128
	1hr 27min 120km
Walpole	248
	9min 9km
Nornalup	257
	43min 56km
Denmark	313
	38min 51km
ALBANY	364

25

26



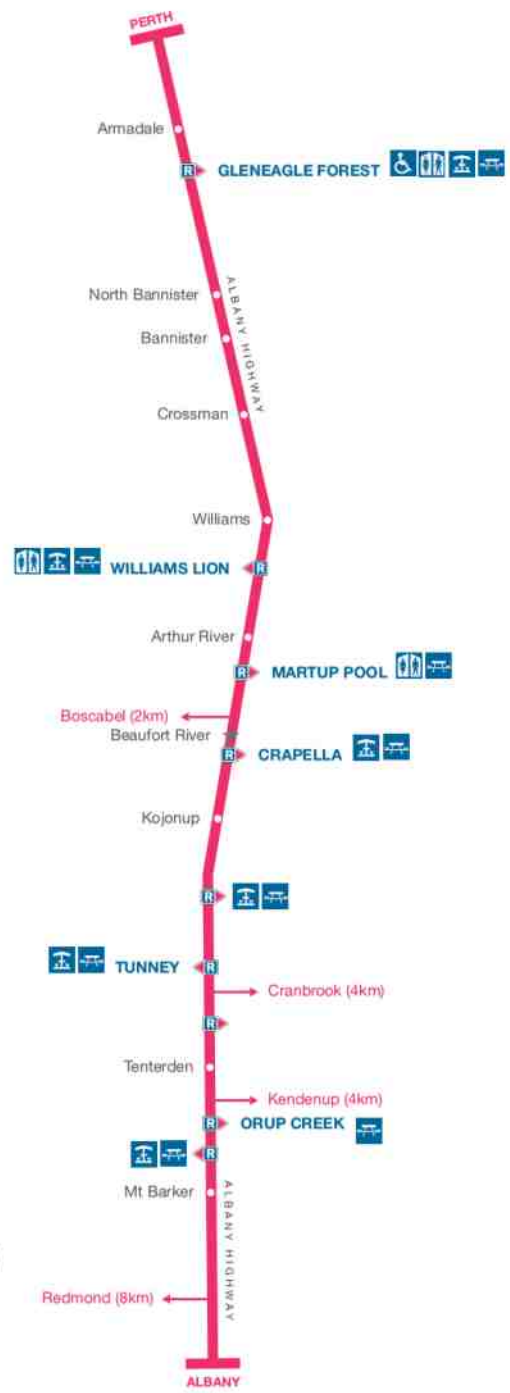
MAP
11

PERTH TO ALBANY
VIA ALBANY HIGHWAY

408km

4hr 43min

DISTANCE GUIDE



PERTH	00
	40min 30km
Armadale	30
	16min 24km
	54 R
	GLENEAGLE FORREST
	25min 41km
North Bannister	95
	8min 13km
Bannister	108
	8min 13km
Crossman	121
	25min 40km
Williams	160.5
	1min 500m
WILLIAMS LION	R 161
	24min 38km
Arthur River	199
	15min 24km
	223 R
	MARTUP POOL
	8min 13km
Boscabel (2km)	235
	1min 500m
	236 R
	CRAPELLA
	13min 20km
Kojonup	256
	23min 37km
	293 R
	1min 1km
TUNNEY	R 294
	15min 24km
	318 R
	1min 1km
	319
	Cranbrook (4km)
	6min 9km
Tenterden	328
	8min 14km
	342
	Kendenup (4km)
	2min 4km
	346 R
	ORUP CREEK
	1min 1km
	R 347
	9min 12km
Mt Barker	359
	20min 32km
Redmond (8km)	391
	16min 17km
ALBANY	408



MAP
12

ALBANY TO ESPERANCE
VIA SOUTH COAST HIGHWAY

481 km

5hr 11min

DISTANCE GUIDE



ALBANY	00
	34min 40km
Many Peaks	40
	20min 33km
	73 R
	16min 27km
Wellstead	100
	9min 15km
	115 R PALLINUP
	4min 6km
Boxwood Hill	121
	16min 28km
Gairdner	149
	19min 31km
Jerramungup	180
	22min 34km
	214 R FITZGERALD
	14min 21km
Fitzgerald	235
	35min 55km
MERIDIAN	R 290
	3min 4km
Ravensthorpe	294
	4min 6km
	R 300
	45min 74km
	R 374
	1min 200m
Munglinup	374
	30min 50km
	424 R
	13min 22km
Dalyup	446
	25min 35km
ESPERANCE	481



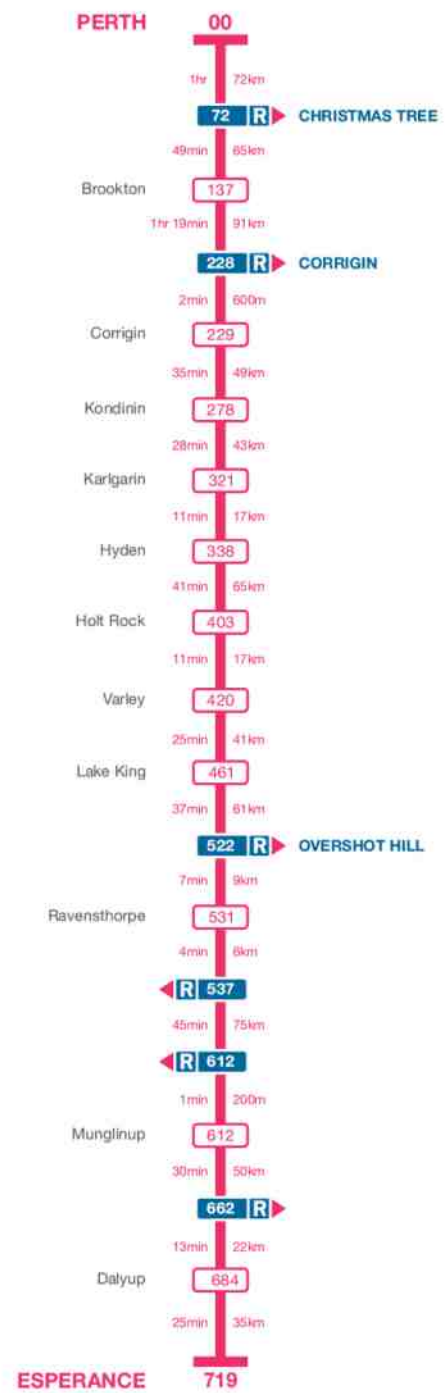
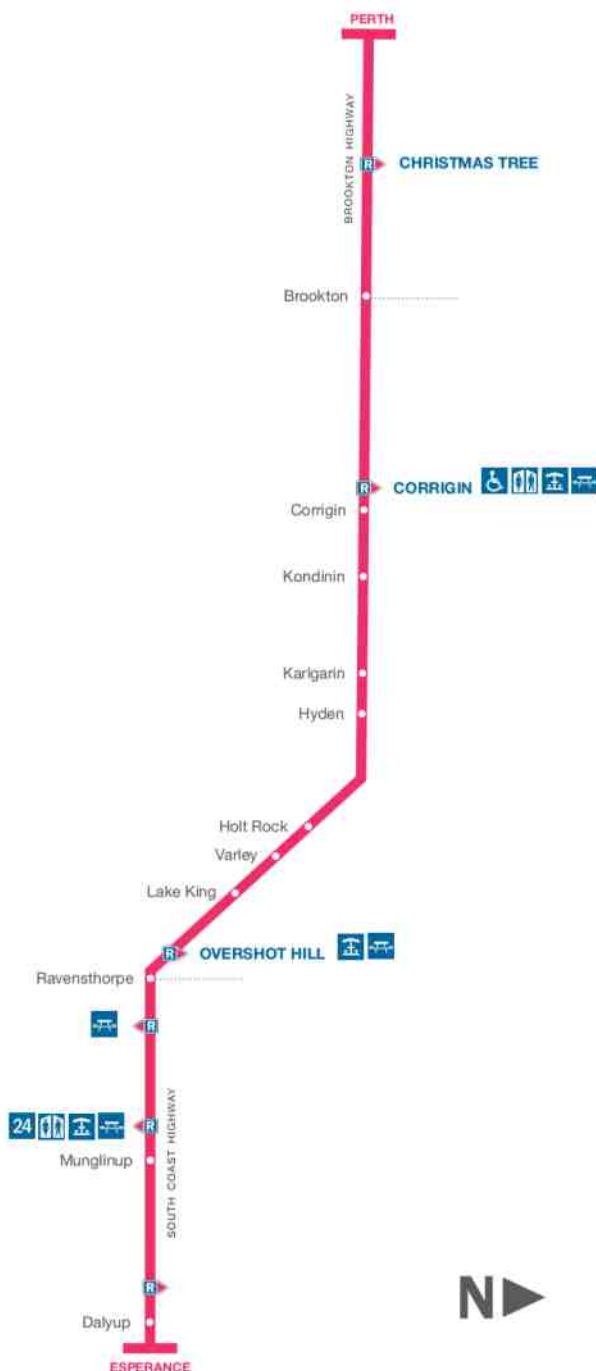
MAP
13

PERTH TO ESPERANCE
VIA BROOKTON AND
SOUTH COAST HIGHWAY

719km

8hr 21min

DISTANCE GUIDE





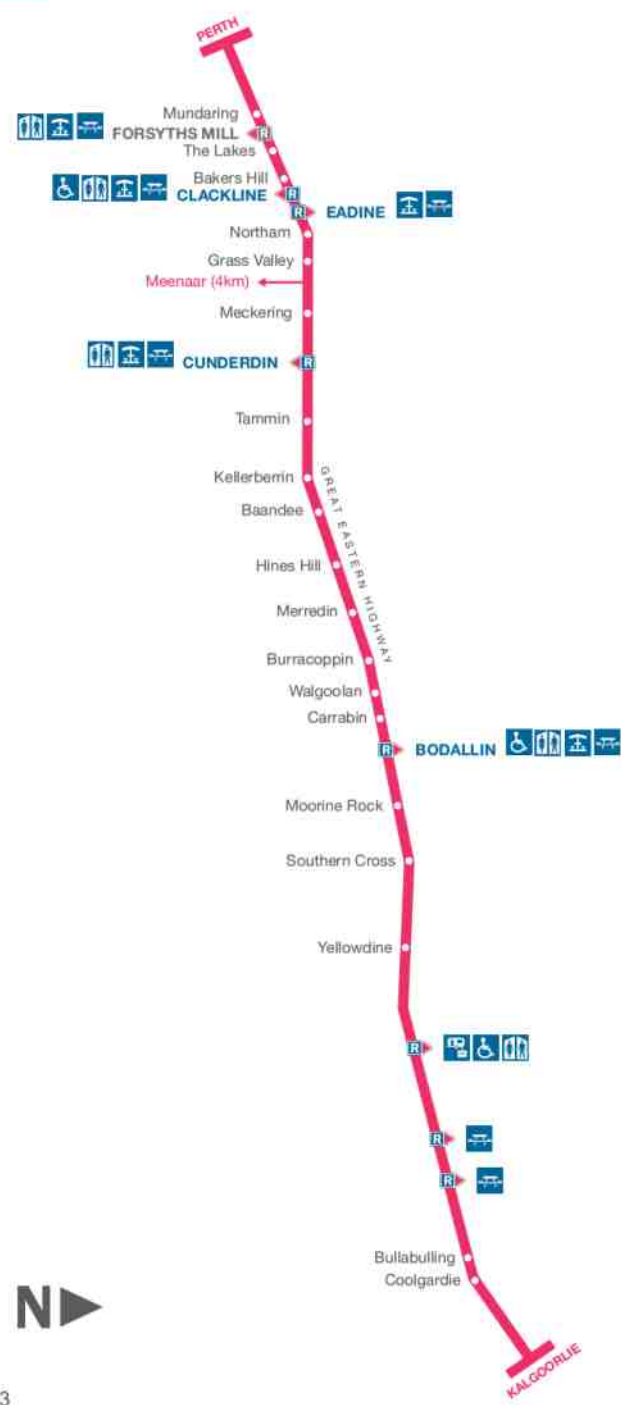
MAP 14

PERTH TO KALGOORLIE
VIA GREAT EASTERN HIGHWAY

592km

6hr 41min

DISTANCE GUIDE



PERTH	00
Mundaring	35min 34km
	34
	8min 12km
FORSYTHS MILL	R 46
The Lakes	3min 5km
	51
Bakers Hill	14min 22km
	73
	6min 7km
CLACKLINE	R 80
	3min 3km
	83 R EADINE
	12min 14km
Northam	97
	12min 13km
Grass Valley	110
	4min 7km
Meenaar (4km)	117
	10min 15km
Meckering	132
	16min 24km
CUNDERDIN	R 156
	10min 23km
Tammin	179
	17min 29km
Kellerberrin	202
	18min 25km
Baandee	227
	7min 11km
Hines Hill	238
	13min 21km
Merredin	259
	14min 29km
Burracoppin	282
	5min 8km
Walgoolan	290
	7min 11km
Carrabin	301
	11min 18km
	319 R BODALLIN
	17min 27km
Moorine Rock	346
	14min 22km
Southern Cross	368
	20min 32km
Yellowdine	400
	21min 36km
	435 R
	24min 40km
	475 R
	13min 21km
	496 R
	29min 48km
Bullabulling	544
	6min 9km
Coolgardie	553
	29min 39km
KALGOORLIE	592



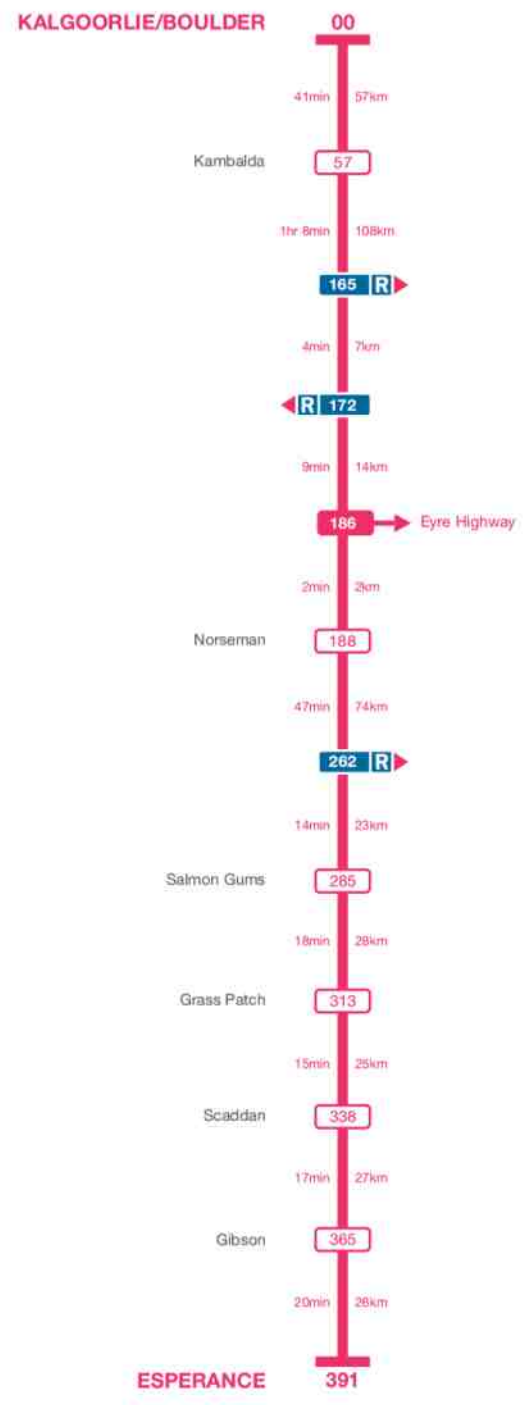
MAP
15

KALGOORLIE TO ESPERANCE VIA GOLDFIELDS HIGHWAY AND COOLGARDIE ESPERANCE HIGHWAY

392km

4hr 17min

DISTANCE GUIDE





MAP
16

NORSEMAN TO EUCLA
VIA EYRE HIGHWAY

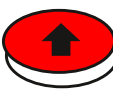
710km

7hr 16min

DISTANCE GUIDE



NORSEMAN	00
	37min 54km
← R 54	
	8min 13km
	67 R
	8min 13km
← R 80	
	2min 3km
	83 R
	49min 81km
← R 164	
	20min 32km
← R 196	
	27min 44km
	240 R
	21min 35km
	275 R
	18min 30km
	305 R
	17min 27km
	332 R
	21min 34km
	366 R
	10min 26km
	392 R
	51min 85km
← R 477	
	16min 27km
← R 504	
	30min 50km
← R 554	
	13min 22km
	576 R
	8min 14km
	590 R
	27min 45km
← R 635	
	4min 6km
	641 R
	20min 33km
	674 R
	4min 7km
← R 681	
	10min 29km
EUCLA	710



MAP
17

GERALDTON TO KALGOORLIE
VIA MT MAGNET AND
GOLDFIELDS HIGHWAY

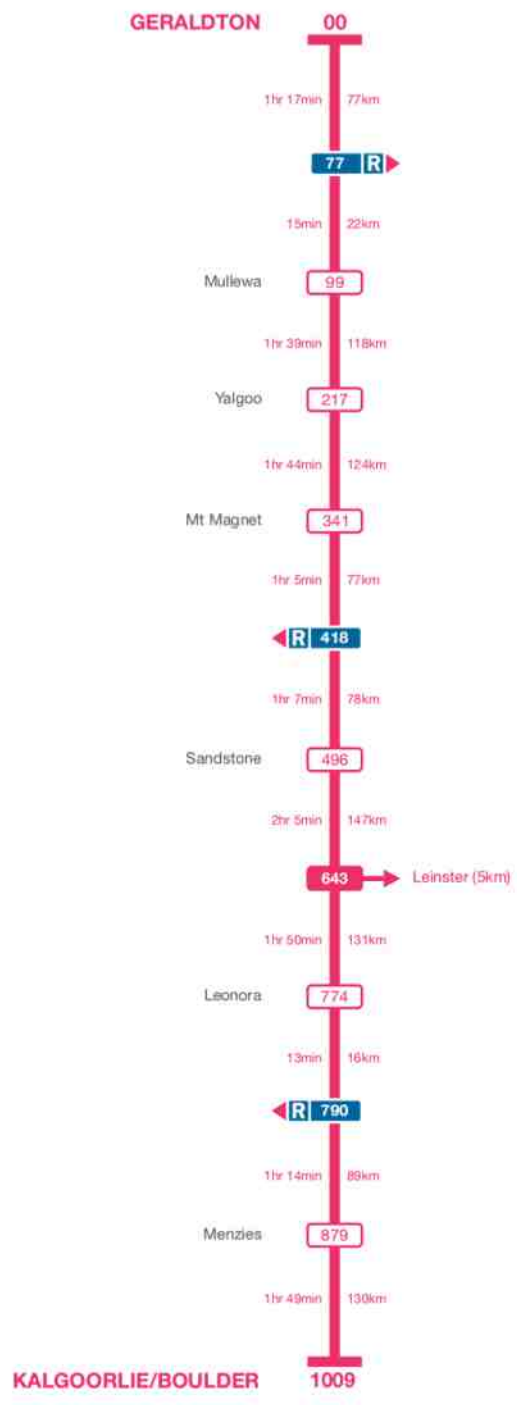
1009km

14hr 9min

DISTANCE GUIDE



39



40



Notes

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26/GS Publications/1011

Improvised Repairs to Wheeled Vehicles in the Field

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THESE HINTS ARE EMERGENCY MEASURES
AND WILL ONLY BE ADOPTED ON
OCCASIONS OF EMERGENCY IN THE FIELD

THE WAR OFFICE,
July, 1943.



FOREWORD

The notes contained in this pamphlet describe emergency measures which may be taken by drivers in the event of breakdown of their vehicles in the field.

These are temporary expedients to keep vehicles on the road until such time as proper technical assistance can be obtained.

These measures will only be adopted in emergency and not during training in the United Kingdom.

They should be considered in the same light as the following simile :—

If a man breaks a blood-vessel, you apply a tourniquet as a temporary expedient. If you left it there for long, the limb would atrophy, so at the earliest possible moment you get the patient to a doctor, who gives the correct expert treatment.

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IMPROVISED REPAIRS TO WHEELED VEHICLES IN THE FIELD, 1943.

1. THE ENGINE PROPER.

(a) Big-End Failure.

(i) *If knock is slight.*

REMEDY. Remove Sparking Plug in case of petrol engine and earth H.T. of plug. In case of Diesel Engines remove injector and bend injection pipe to discharge fuel oil into a container suitably placed. Ensure that oil in sump is at correct level. Drive on carefully, pressure on particular piston now reduced.

(ii) *Complete Failure of Bearing.*

REMEDY. Drain engine oil into clean receptacle, remove sump, taking care not to damage sump gasket. Remove connecting rod and piston and seal the oil drilling on crank pin journal by means of a Jubilee clip and small piece of jointing, as fitted to Radiator hose. Alternatively fit a wooden plug with outer end slotted to take wire binding. This step will ensure maintenance of oil pressure. Re-fit sump with gasket, refill with oil to correct level and proceed carefully to destination, keeping engine revs. to a minimum because of "out of balance forces".

NOTE. If clip has been removed from Radiator hose, bind hose tightly with cord or wire.

(b) Engine Sump.

(i) *Slight damage to sump through shot hole or striking by rocks.*



REMEDY. Plug hole with wood and/or cloth, turn engine over by hand to ensure that big-ends are clear of plug. Check oil level in sump.

(c) **Valves.**

(i) *Petrol engine — Sticking Valves.*

REMEDY. Disconnect air cleaner and inject some fuel oil or engine lubrication oil into the carburettor intake, or, remove valve covers, speed up engine in excess of idling speed, and spray valve stems and guides with a mixture of petrol and lubricating oil.

(ii) *Diesel Engine — Sticking Valves.*

REMEDY. Turn engine over slowly by hand and apply fuel oil to valve stem. The piston will close the valve and the rocker will open it. A few slow turns of engine will indicate if the valve can be made to work. Further, examine valve spring and if valve is sticking owing to broken or weak spring, a separate spring can often be tied on overhead to assist closing of valve and enable cylinder to function efficiently.

NOTE. A stuck open valve would probably result in serious damage to cylinder components.

REMEDY. Action as in 1 (a) (ii) and remove injector as 1 (a) (i).

(iii) *Valve springs broken.*

REMEDY. Remove broken spring and replace with flat ends together. Shortening of spring can be compensated by inserting suitable size plain washer between flat ends. The valve must then be held on to its seat in order to compress spring and insert washer. Method adopted will depend upon type of engine. Generally speaking, a screwdriver or flat bar inserted through plug hole will enable job to be done.

(d) Gaskets, Cutting of.

(i) *Inlet or exhaust manifolds.*

REMEDY. Smear manifold flange with oil or paint, place jointing over flange and press firmly. Remove jointing and cut away portions not required with scissors or sharp knife.

(ii) *Thin Gaskets for any flanges.*

METHOD. Press jointing firmly on to a surface to make good impression. Cut away material not required by light taps with hand hammer.

NOTE. Check to ensure that finished joint will not blank off essential openings.

2. LUBRICATION SYSTEM.

(a) Oil Filter.

(i) *Outer casing damaged.*

REMEDY. By-pass the oil filter from circuit by connecting the filter inlet pipe to the outlet pipe by means of rubber tubing. Bind well with cord or wire. Observe the oil pressure at frequent intervals.

(ii) *Pipe to pressure gauge.*

REMEDY. If slight fracture bind with cloth and wire. If fractured, close up pipe end on engine side of fracture by hammering or squeezing in order to seal lubrication system; pressure gauge will now be out of action. Check effectiveness of repair with engine running. Check sump oil level (wet sump system) and oil container level (dry sump system) at frequent intervals.

3. COOLING SYSTEM.

(a) Fan belt.

(i) *Clean break.*

REPAIR. Drill or pierce a series of staggered holes on either side of break. Lace together

neatly with ends butting by means of thick copper wire or leather bootlace. Refit belt and leave as slack as possible.

(ii) *Temporary fan belt.*

Use a leather strap. Overlap ends to correct circumference and lace up with copper wire or leather bootlace, or, use an oversize belt, cut out length to leave suitable overlap, which should consist of flat scarf. Drill or pierce holes in scarf and wire up, or, carefully splice a piece of suitable rope to correct length and refit.

(b) **Fan.**

(i) *Blade broken.*

REMEDY. Remove damaged and opposite blades to maintain balance.

(c) **Radiator.**

(i) *Shot through radiator header or bottom tank.*

REMEDY. Plug with wood and cloth.

(ii) *Small radiator leaks.*

REMEDY. A handful of fine sawdust put inside radiator will block openings due to expansion. If at hand, pea flour or pea soup boiled up in radiator will exude through small cracks and harden up for an effective repair. Chewing gum applied externally as necessary will make a good temporary repair. Soap should only be applied as a last resort as it makes the ultimate repair a difficult job.

(iii) *Shot through Honeycomb Radiator.*

REMEDY. Cut two pieces of inner tube and two pieces of board to suitable sizes. Place over damaged portion, boards inside and out, with rubber next to the radiator and secure with bolt and nut.



(iv) **Damaged Tubular Radiator.**

REMEDY. Cut out damaged portion and either close open ends of tubes with suitably shaped wooden plugs or close ends of tubes by means of pliers.

(v) **Radiator hose, damaged.**

REMEDY. Bind with canvas or cloth strips. Secure with tight wrapping of cord or wire. Again bind over if necessary to make effective repair.

(d) **Defective circulation of water—due to :-**

(i) Insufficient water (leakages in system).

(ii) No forced circulation of water due to pump not working (broken pump spindle or faulty fan belt drive.)

(iii) Ineffective cooling of water (defective fan).

REMEDY. Proceed slowly until temperature gauge reads high, stop vehicle, switch off engine and allow to cool — opening bonnet to expedite this. After cooling, top up with water as necessary and repeat procedure.

NOTE. If pump impeller is removed and spindle glands sealed to prevent water leakage, the thermosyphonic action is improved.

(e) **Thermostat.**

Faulty action resulting in restriction of water flow.

REMEDY. If possible remove complete thermostat, if not possible to remove, enlarge the circulation hole in its flange to increase quantity or flow.

4. PETROL SYSTEMS

Defective fuel supply to engine may be due to :-

(a) **Loss of petrol due to damage to component parts.**



(i) *Fuel Tank Leaking.*

REMEDY. Small leaks can often be sealed with chewing gum applied over damaged portion. Soap softened by kneading and then forced into cracks and small holes will effect a temporary repair. Larger holes require suitably shaped wooden plugs.

(ii) *Damaged Petrol Pipes.*

REMEDY. For cracks wrap pipe with rag and bind tightly with insulation tape, cord or wire. If pipe is fractured badly, kinked or flattened, cut out defective piece with hacksaw or file and slip short length of suitable rubber tubing from windscreen wiper unit or tyre pump hose over butted ends and bind them tightly with wire. Grease or soap applied to outside ends of rubber tube will assist in sealing.

(b) **Stoppage of petrol due to dirt in system.**

(i) *Choked petrol pipe.*

REMEDY. If petrol pipe is to the tank, break convenient union and blow back into the tank using tyre pump if possible. If pipe length can be disconnected and above method applied, the dirt can be removed from the system.

(ii) *Blocked petrol Tap.*

REMEDY. Remove tap and remove obstruction.

(iii) *Choked air vent on autovac.*

REMEDY. Remove and clear obstruction.

(iv) *Stoppage of petrol due to dirt in filter.*

REMEDY. Dismantle, flush out body and clean filter gauze.

(v) *Choked Carburettor.*

REMEDY. Remove jet and apply air pressure to clear. Do not use needles or wire to clear small orifices.

(c) **Stoppage of petrol due to defective components.**

(i) *Autovac—Damage to top portion.*

REMEDY. Remove and maintain requisite level by pouring in petrol as required.

(ii) *Sticking valve linkage.*

REMEDY. A light slap by hand on the outer casing often proves effective in freeing.

(iii) *Petrol pump.*

NOTE. Before disconnecting and dismantling, ensure that the trouble is not due to faults elsewhere in system.

Filter Choked.

REMEDY. Clean and replace carefully.

Starting up of engine after emptying of petrol system should be effected by means of starting handle if possible.

Complete failure.

REMEDY. If vehicle is fitted with a radiator condenser, remove and affix to convenient place above carb. level. Connect condenser outlet to carb. fuel intake (or pipe from petrol pump outlet) by means of a rubber pipe. If no condenser is fitted any suitable can may serve the same purpose of gravity feed to carb.

(iv) *Carburettor Float Punctured.*

REMEDY. Slightly enlarge the hole and expel petrol. This is helped by immersing in hot water. Insert soft wood plug (match stick) into hole and ensure that projection of plug is a minimum. Alternatively, use small piece of chewing gum.

NOTE. Needle valve may need re-adjustment for correct petrol level.

(v) *Broken throttle cable on motor cycle.*

REMEDY. Remove air slide, disconnect air control and connect same to throttle slide. The



throttle control will now be operated by the air control lever.

(d) Stoppage of petrol due to air-locks.

(i) *Air-lock between tank and pump.*

REMEDY. Disconnect union at pump inlet and blow air through pipe back to tank. The momentary pressure built up in the tank will soon cause petrol to flow back to pump. Connect union and tighten.

(ii) *Air-lock between pump and carburettor.*

REMEDY. Disconnect union at fuel inlet to carburettor and operate pump by means of priming lever. When petrol flows freely replace union and tighten.

5. IGNITION SYSTEM.

(a) Contact breaker.

(i) *Contact breaker rocker arm spring broken.*

REMEDY. Cut a small block of rubber from a tyre and insert behind the rocker arm. Ensure that size of rubber will effect closing of contact points.

(ii) *Rocker arm seized in bush.*

REMEDY. Remove rocker arm by unscrewing spring and forcing same off its pivot. Use screwed end of centre fixing as a reamer. When satisfied that rocker arm is quite free on its fulcrum, reassemble, taking care with refitting of spring. The fibre should be perfectly dry and free from oil.

(iii) *Contact breaker points badly burnt or worn.*

REMEDY. Clean properly and change condenser. Application of lead pencil to surface of points will help to provide a metallic surface.

NOTE. Condensers fitted to prevent radio interference can be used to replace faulty condensers.

(b) **Distributor.**

- (i) *Distributor cap spring clips broken.*

REMEDY. Bind cap securely in position with insulation tape.

- (ii) *Carbon brush in distributor broken.*

REMEDY. Shape a brush from tinfoil and insert in position or shape temporary brush from lead pencil stub.

(c) **Coil.**

- (i) *Switch failure.*

REMEDY. Remove wires from switch, bare the ends and tie together, untie ends to stop engine. Leave untied until the engine is again started, or, if the switch is damaged, connect a wire direct from battery live terminal to coil terminal marked S.W. This wire must be disconnected to stop engine and to prevent the battery from discharging.

- (ii) *Ignition coil connection faulty.*

REMEDY. If earth connection and ignition coil body is disconnected or broken, tap a small piece of copper wire into the hole and complete the earth return.

(d) **H.T. Leads.**

- (i) *H.T. Leads outside of plugs and distributor cap wet.*

REMEDY. Wipe off moisture and then wipe with cloth moistened with petrol. Allow a period of time for the petrol to evaporate and subsequent starting will be facilitated.



(ii) *H.T. Wire broken.*

REMEDY. Remove defective wires and replace by copper or steel wire of sufficient diameter, making sure that the wire is kept away from other metal components. Tie in position with string or insulation tape.

(iii) *Fuses — failure of.*

REMEDY. Before replacing a fuse ascertain the reason for blowing of the fuse and rectify the fault before fitting a new fuse. If a fuse is not available insert a suitably wrapped piece of tinfoil or beat out a single strand of wire to reduce cross-section so that only normal current can pass.

(c) **Light springs.**

(i) *Tension return springs broken.*

REMEDY. Bands cut from old inner tubes will make temporary repair, or temporary repair may be effected by joining the broken ends with copper wire.

(ii) *Compression springs broken.*

REMEDY. When the spring is located by a through rod, insert a suitable washer to maintain compression required. Small springs may be replaced by cellular rubber.

(f) **Batteries.**

(i) *Insufficient electrolyte.*

REMEDY. Should the battery require distilled water and this is not available top up with radiator or any water with the exception of salty water.

(ii) *Cracked Tops.*

REMEDY. Seal the cracks by heating the blade of a knife or screwdriver and using a small portion of the battery as sealing compound.



(iii) *Discharged State.*

Tow the vehicle to start and providing the dynamo is charging the engine will continue to function. Alternatively replace by good battery until engine is started.

(g) **Starter Motor.**

(i) *Faulty operation.*

REMEDY. Before again depressing the button turn the engine by hand about 1/4 turn. The pinion may now be in contact with the better part of the flywheel ring and easier engagement ensured. The faulty flywheel should be renewed when possible.

NOTE. The starter pinion is inclined to jam on the flywheel ring when the starter button is depressed.

(ii) *Starter Motor Spins Freely and Engine does not Revolve.*

REMEDY. Wash the thread of the pinion with petrol to free pinion on shaft.

(iii) *Starter Motor Jammed.*

REMEDY. If there is a square end on the armature shaft apply spanner and turn armature in correct direction for disengagement of pinion. If there is no square on the armature shaft, loosen the bolts securing the starter motor, engage top gear and rock vehicle backwards and forwards.

NOTE. Rocking vehicle alone is often sufficient to free the starter motor.

(h) **Dynamo not Charging.**

REMEDY. Gently press together the cut-out points. Observe the reading on the ammeter. If ammeter shows charge and cut-out points will



not remain closed, the cut-out is faulty. Insert thin wooden wedge or rubber under bridge to keep points closed. Do not idle engine unnecessarily as the battery will be discharged through the closed points. Remove wedge before stopping the engine.

(i) Electrical Leads, Joining of.

When it becomes necessary to make a joint between the broken or frayed ends of an insulated lead, strip away the insulation, expose the core at the ends for a length of at least one inch. Scrape the bare ends clean and twist them together tightly, finally binding with several layers of insulation tape. In the case of twin or triple leads care must be taken to ensure that each joint is well insulated from the other. This is facilitated by staggering the position of joints of each lead. Finally bind around all the leads with sufficient insulation tape. If ends of leads are too short for overlapping insert in the gap a suitable length of copper wire and connect the ends. Cover with insulation tape.

6. WHEELS AND TYRES.

(a) Changing of—Jack missing or ineffective..

REMEDY. Pack up the axle with wood blocks or stones at a suitable position. Dig a hole under the wheel to effect change.

(b) Repairs to tyres difficult to remove.

(i) *Repairs to Tube—No patching available.*

REMEDY. Use rubber groundsheet.

No solution available.



REMEDY. Use ordinary cold patches, moisten patches with petrol, allow to become tacky and then apply to tube.

(ii) *Repairs to Cover—Gaiter Missing.*

REMEDY. Cut same from parts of web equipment, e.g. Pack or Haversack and inflate tyre before replacing wheel on vehicle.

(iii) *Outer Cover U.S.*

REMEDY. Remove inner tube and replace by rolled clothing packed into position as tightly as possible. Proceed at slow speed.

(c) **Tyre Interchanging.**

A 3 ton 10. 50 x 20 C.A.S. wheel and tyre will also fit a Morris 15 cwt. or 3 ton.

A Morris P.U. wheel and tyre will fit a 40m/m Bofors Carriage.

NOTE. Fit tyres in pairs rather than one only.

7. BRAKES

(a) **Hydraulic Brakes—Fluid Pipe Broken.**

(i) REMEDY. Blank off the connection to it from the master cylinder, or close the pipe at the break by pliers or hammer blow.

(ii) *Brakes hard on.*

REMEDY. Bleed oil from Screw or pipe for particular wheel.

(b) **Vacuum assisted system—Failure of Booster.**

REMEDY. Examine ends of the hose connection. If the hose has perished at end, cut off the defective piece and reconnect to manifold. Test repair by driving car and operating the brakes.



8. SUSPENSION

(a) Springs, Main.

Springs, Main Leaf—Broken.

REMEDY. If possible, improvise a splint from a pick head, tyre lever, crowbar, or spanner, place over broken ends and secure with wire or rope, after first jacking up vehicle at broken spring end to enable repair to be carried out with spring in unloaded position. Place a block of wood between chassis and axle and secure firmly. If the vehicle is fitted with cable brakes disconnect cable of wheel adjacent to broken spring.

9. TRANSMISSION

(a) Live Axles.

(i) *6 wheeled Vehicles—Damaged Axles.*

REMEDY. Should the rear axle become unserviceable disconnect the drive to it and withdraw the half shafts to allow the rear wheels to roll. Should the centre axle become unserviceable withdraw the corresponding half shafts.

Live axle—Damaged wheel or tyre which cannot be repaired.

REMEDY. Withdraw the half shafts and both wheels of the axle concerned and lash the axle to the chassis. The removed half shafts should always be wrapped up to prevent damage to the bearing portions.

(ii) *4 Wheeled Vehicles with 4 Wheeled Drive. Rear axle failure.*



REMEDY. Remove the rear propeller shaft and engage the front wheel drive. If the failure is attributed to a defective or seized bevel pinion of faulty differential gear, both rear axle half shafts should be removed.

Damaged Rear Axle Casing.

REMEDY. Carry on but periodically sluice the working parts with grease or oil.

(b) Gearbox.

(i) Gearbox Casing Damaged.

REMEDY. Carry on but sluice periodically with oil. Should the gear become jammed, declutch drive, start the engine, engage the clutch and drive away.

(ii) Gearbox Lever Broken Off.

REMEDY. Remove broken piece of lever and use suitable bar to lever third gear into mesh. Adopt same procedure as given for jammed gears in order to drive away.

(c) Clutch Slipping.

REMEDY. First ensure that there is free movement on the clutch pedal, adjusting same as necessary. If trouble persists, depress clutch pedal to free clutch plates and inject fluid from Pyrene Extinguisher into clutch casing between plates.

NOTE. Petrol can be used effectively for the same purpose, but care must be taken to remove drain plug in casing, to remove all traces of petrol before starting engine.

10. STEERING.

(a) Steering Arm Ball Joint Broken.

REMEDY. Insert a suitable bolt in place of ball ended screw and lock with a nut at the bottom.



Finally tighten up ball joint adjusting cap. If the taking up of the adjustment in the ball joint does not eliminate slackness, lash down with cord or wire.

(b) Track Rod Bent.

REMEDY. Remove rod and straighten by use of leverage. Replace and adjust for correct wheel "toe in".





GRILLED CORN COBBS WITH SPICED MAYO

- 4** Corn cobs with husks
- 2** Limes
- 1** Cup whole egg mayo
- 1** Tsp ground cayenne pepper (or chili powder) add more if desired
- Parmesan cheese
- $\frac{1}{2}$ Cup coriander, chopped
- Sea salt and fresh ground black pepper

In a small bowl, combine the mayonnaise with the cayenne pepper and a squeeze of lime juice. Season to taste with salt and pepper.

Peel the green husks of the corn cobs back to the stem but do not remove. Tie back with kitchen twine. Remove the corn silk from the kernels.

Get the BBQ hot. Grill the corn cobs over high heat until they begin to char. Keep turning cobs until they are lightly charred on all sides.

Remove cobs from the heat and drizzle spiced mayonnaise over the top.

Grate fresh parmesan cheese and garnish with chopped coriander leaves.

Serve with lime wedges.

SERVES 4

Preparation: 10 minutes Cooking: 10 minutes

the outdoors made easy



MOROCCAN LAMB CUTLETS

- Mix the Moroccan seasoning with the honey, 1/4 teaspoon turmeric and salt and then brush on to the lamb cutlets.
- Get the BBQ hot. Cook lamb cutlets on the grill plate of the BBQ. Grill on each side until fragrant and golden.
- Toast the pistachios, 1/4 teaspoon turmeric and pine nuts in a dry frying pan for 3 minutes, making sure you keep tossing them.
- Crush with a pestle and mortar or chop with knife after removing from heat.
- Sprinkle over the chops with chopped mint.
- Serve with sliced tomatoes, pistachios, hummus and chickpea salad.

SERVES 4

- 1** Tbsp Moroccan seasoning
- 1** Tbsp honey
- 1/2** Tsp ground turmeric powder
- Salt**
- 800g** Lamb cutlets
- 1** Tbsp pine nuts
- 1** Tbsp pistachios
- 1/2** Cup mint leaves, chopped tomato, pistachio and chickpea salad, to serve
- Hummus**



CHARGRILLED SMOKED PAPRIKA STEAK SANDWICHES

- 2** 400g Sirloin steaks
- 1** Tbsp smoked paprika
- 1** Tbsp picked thyme leaves
- 2** Large tomatoes
- 1** Baby cos lettuce, leaves rinsed and drained
- Sour dough sliced
- Aioli
- Gruyère cheese, sliced
- Dill pickles to serve
- Olive oil
- Sea salt and fresh ground black pepper

Remove the steaks from the refrigerator 20 minutes prior to use.

In a bowl, combine a couple of tablespoons of olive oil with the smoked paprika, thyme and salt and pepper.

Toss the steaks in the marinade and leave for 10 minutes at room temperature.

Get the BBQ hot. Cook each side of the steak for 4 minutes.

Remove from the heat and allow to rest for 10 minutes with a slice of gruyère cheese on top.

Brush a little olive oil on 8 slices of bread and toast on the BBQ on the grill plates.

Cut the cheese topped steaks in half and divide over 4 toast slices.

Top with crisp cos lettuce and sliced tomato.

Squeeze generous serve of aioli on remaining toasts and top each steak sandwich. Serve with pickles.

SERVES 4

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\$17500 ono



This kamper although older and used, is in excellent condition. It has always been garaged when not in use, regularly serviced and maintained with original or better replacement parts. Any additional information wanted please text me. **Brian 0400946684**

Tare 1260 Agg 1600

New Lithium Batteries 30% increase of original setup and much lighter.

Webasto HWU Recently Serviced

Fox Shock Absorbers Recently replaced

Just serviced, new brakes fitted

Optioned up with additional storage boxes

Drawer under bed

Kwik awning

Bedioun Annexe with walls and skirt

Ensuite Tent. Original zip on to side of kamper

Webasto diesel hot water unit and shower

Ability to pump water from external source not to contaminate water tank

130litre water tank

Innersprung mattress

Rhino cargo bag

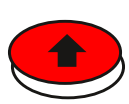
160watt portable solar panels. 80watts When folded attached to kamper with ctek solar bcdc charger

Spare wheel bearings

Good tyres

Eutectic fridge. Very economical on battery power

Many extras if wanted



Whitegum farm

Some of our group arrived on the Friday giving them time to have a good play in the 4x4 park before the rest of us arrived on the Saturday.

The 4x4 park is quite well set up with varying difficulties to suit all levels of competence (and confidence).

Our group consisted of Steve & Julie, Aaron & Tara, The Brockie family, Ray & Sharon, Karen & Steve, Morgan & family, Sue (visitor) & myself.

Over the couple of days we had lots of fun on the tracks with most of us getting stuck at times needing a little help to get going again, mostly bottoming out over a crest or wheels lifting over ruts.

Saturday night saw us all at the onsite pub for the evening meal and a few drinks then back to Steve & Julie's campfire until bed.

Sunday saw everyone packing up for the trip home and one last play in the 4x4 park. Like the saying "it's all fun until someone loses an eye" we heard a call over the radio that no one wants to hear: "I've flipped". We all raced to give aid and found a member's car on its side at the bottom of a hill, apparently the result of following tyre tracks up a hill to find nothing on the other side but a sheer drop-off. After securing the car to another with a winch to minimise the likelihood of rolling further, we clambered onto the car to help the member get out before setting about pulling the car onto its wheels again. Luckily there was minimal damage; mainly the front passenger tyre had rolled off the rim. After a fair bit of digging and various winching combinations we were able to get it into a good position to change the wheel and get it started. Fortunately the driver was shaken but not injured and was able to drive home

Brisey



TRIPPING OUT



WHITEGUM FARM



TRIPPING OUT



WHITEGUM FARM



TRIPPING OUT



WHITEGUM FARM



TRIPPING OUT



WHITEGUM FARM



TRIPPING OUT



WHITEGUM FARM



TRIPPING OUT



WHITEGUM FARM



Westonia Wildflower Wander

Our group arrived at various times during the Friday afternoon; Bucko & I were the first and were set up before anyone else arrived so we settled down to watch the others arrive to give us some afternoon entertainment while reversing into site. We were not disappointed with one of our group and a few of another group at the caravan park taking a few tries to get to the perfect spot. Unfortunately there are those people that make reversing into a caravan site look too easy, where's the fun in that????

Originally I had booked the Westonia Tavern for 7.00PM for dinner so everyone could arrive and set up but by 5.00 pm everyone was set up and looking hungry so I was able to change the booking to 6.00 pm. Drinks, food and much merriment was the order of the day and then Ann and Ian arrived at 7.00PM as we were finishing up our meals. From the startled looks on their faces it (very) slowly dawned on me that I had totally forgotten to let them know of the new time.

You really had to be there but the facial expressions, comments and antics of one of our group while examining and cleaning a fork was priceless, it would have been much easier to go and get another fork.

Saturday morning after the trip briefing we headed northwest to Boodalin Soak where we found one of Hunt's wells and some good clusters of wildflowers. From there we went back toward town then northeast to Sandford Rock finding a great rock to climb and more good clusters of flowers. Back to the caravan park again for lunch with a few of our group making a quick detour to the Edna Mine Lookout.

After lunch Baladgie Rock was calling but we found the wildflowers were average although the rock and the nearby salt lake were awesome. Some of us had a walk before returning to the caravan park to have a debrief at Bucko's van.

Sunday was a big day taking in Yannimooring Rock, Elachbutting Rock and Berrinbooding Rock. We found good rocks to climb and good wildflower displays at the first two stops but Berrinbooding Rock was a bit disappointing with not much colour and far too many campers. We spent an hour at Yannimooring Rock where we found a well (not one of Hunt's) and some had a good climb and explore before heading to Elachbutting Rock for lunch. Our exploring around here included Monty's Pass and a drive up to the top of the rock for a great view. Leaving after about 90 minutes we had a quick stop at Berrinbooding Rock before returning to the caravan park and Buckos van.

Monday saw us at Weira Nature Reserve and Eaglestone Rock where we enjoyed lots of pretty things. Once everyone was milling around after lunch at Eaglestone Rock we started to get under way when some of our group asked if they could exit slowly to explore the entrance track as there was a lot of wildflower clusters. The rough plan was to leave them to it and I would meet everyone at the main road, what could possibly go wrong???? I knew exactly where I was going to meet them but my directions to the rest of the group were probably ambiguous at best so everyone went in the opposite direction, and I thought only 3 turn arounds the previous day was quite good for one of my trips. Luckily we were still in radio contact so we could sort out my mess easily. A suggestion came across the radio to head to Nungarin for an ice cream but the only thing that was open was the Op Shop due to the public holiday. One of the locals offered to open their coffee trailer for us. Ask Skeelsy what he thought of his first ever chi latte.

Half of our group continued to Merredin for fuel and ice cream while the rest of us went back to Westonia for the regular beer o'clock at Bucko's

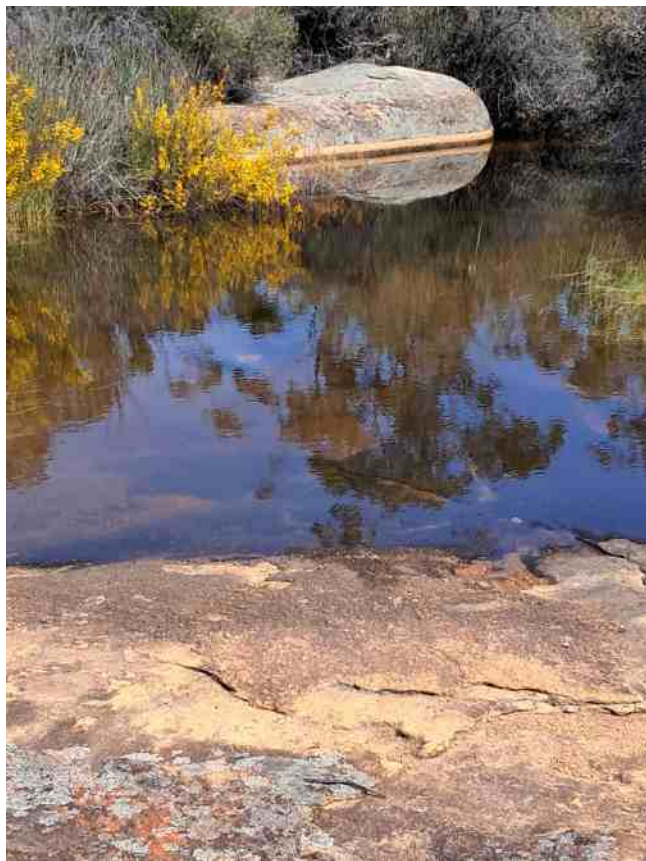
Brisey



Is that a camera in your pocket or are you happy to see me?









TRIPPING OUT



WESTONIA WILDFLOWER TRIP



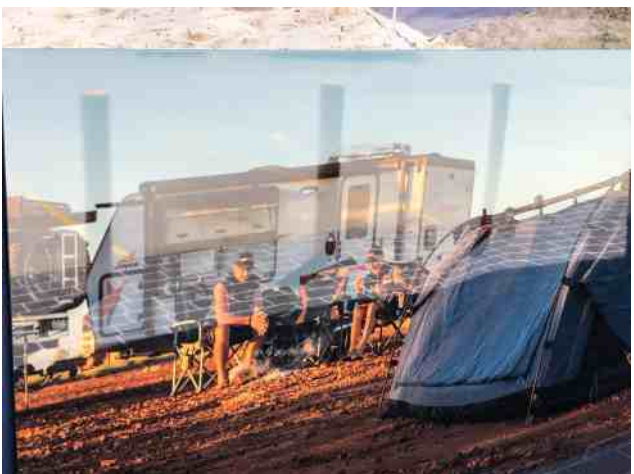


TRIPPING OUT



WESTONIA WILDFLOWER TRIP











Secret Harour Surf Lifesaving Club Events

Western Suns Selection Carnival

Saturday 15th of November 2025

requiring at least 3 vehicles, however also require a couple of extra people to help coordinate carpark traffic, and entry on & off the beach.

Meeting time is 5:30am, at the carpark of the Secret Harbour Surf Life Saving Club.

What you will need:

- ** Water & sunscreen
- ** A 4WD with low range and standard tow ball.
- ** UHF radio
- ** Equipment to deflate and inflate tyres.
- ** Suitable recovery gear (snatch strap, shackles, set of recovery tracks)
- ** A sand flag is advisable but not essential
- ** As per previous experience, it is also advisable to bring your own pin for the trailer hitches.

Hi Everyone,

We have the Surf Club Carnival coming up on Sunday 23rd of November 2025, requiring at least 3 vehicles, however also require a couple of extra people to help coordinate carpark traffic, and entry on & off the beach.

Meeting time is 5:30am, at the carpark of the Secret Harbour Surf Life Saving Club.

What you will need:

- ** Water & sunscreen
- ** A 4WD with low range and standard tow ball.
- ** UHF radio
- ** Equipment to deflate and inflate tyres.
- ** Suitable recovery gear (snatch strap, shackles, set of recovery tracks)
- ** A sand flag is advisable but not essential
- ** A chair to relax during the event.
- ** As per previous experience, it is also advisable to bring your own pin for the trailer hitches.

Hi Everyone,

We have the Surf Club Carnival coming up on Saturday 7th of February 2026, requiring at least 3 vehicles, however also require a couple of extra people to help coordinate carpark traffic, and entry on & off the beach.

Meeting time is 5:30am, at the carpark of the Secret Harbour Surf Life Saving Club.

What you will need:

- ** Water & sunscreen
- ** A 4WD with low range and standard tow ball.
- ** UHF radio
- ** Equipment to deflate and inflate tyres.
- ** Suitable recovery gear (snatch strap, shackles, set of recovery tracks)
- ** A sand flag is advisable but not essential
- ** A chair to relax during the event.
- ** As per previous experience, it is also advisable to bring your own pin for the trailer hitches.



Club Christmas Party

Hey Everyone,

As we approach the end of another year, we have organised an end of year catch up at the King Road Brewery on Sunday 14th December.

We have booked the Lower Mezzanine Area (between the Hayshed & back bar) from 12:00pm until 2:30pm.

Pizzas, garlic bread, and chips will be provided by the Peel 4x4 Club.

Peel 4x4 Club - Trip Planning Meeting

Sunday 11th January 2.00pm

NOTE: Preceded by the January General Meeting.

As we move towards the end of another year, it opens up more opportunities to set the scene for 2026.

Please come to the meeting with any trips & potential dates that you would like to lead a trip.

If you would like to lead a trip, but are a little apprehensive due to never having done it before, please come and see one of the more experienced members prior the end of this year.

We are more than happy to guide you through the process, including mentoring as required.

We are also open to ideas for trips that you would like to see.

The Peel 4x4 Club Committee will provide Pizzas and other available nibblies.

More information will be discussed at the October & November General Meetings

Windy Harbour Australia Day Weekend

we have made a club booking 2 powered and 8 unpowered sites

from Friday 23rd to Monday 26th

with the option of additional nights

the sites we have booked are all together (for those that went last year we have the corner and the powered sites closest to

please indicate if you wish to attend and if you want power or unpower and # of people

trip sheet will be out a next meeting

Saturday Trip

Sunday Trip and bbq

Dinner

dinner details to come

CAMPING FEES	2025/2026	PEAK RATE
Family Rate (2 adults & 7 children under 18)	\$45.00	\$50.25
Child (per additional night)	\$8.00	\$15.00
Adult (per additional night)	\$17.25	\$21.50
Per person/camper - Camp	\$12.00	\$15.00
Family Rate 7 nights (adults & 9 children under 18)	\$375.00	\$327.50
Shower non-campers	\$5.00	\$9.25
Powered sites (extra per booking/night)	\$2.00	
Firewood (per bag)	\$15.00	



- Lancellin Dunes Day Trip
Sunday 2nd November
TBC
Medium
- Perth 4WD Show
Thursday 6th November to Sunday 9th November
Information Only
- Secret Harbour Lifesaving Club Surf Carnival
15th November
Medium
- Secret Harbour Lifesaving Club Surf Carnival
23rd November.
Medium
- Lennard Track Overnighter
Saturday 29th to Sunday 30th November
Gary Mayes
Medium
- Peel 4x4 Club Christmas Party
Saturday 13th December (TBC)
Peel 4x4 Club Committee
Social
- January General Meeting and Trip Planning
Meeting
Sunday 11th January 2026
PK Tavern
- Australia Day Windy Harbour
23rd to 26th January 2026
Medium
- Secret Harbour Lifesaving Club Surf Carnival
8th February 2026
Medium