

Shire of
Narrogin

MINUTES
NARROGIN DISTRICT TOWNSCAPE COMMITTEE MEETING

16 August 2018

The Chief Executive Officer recommends the endorsement of these minutes at the next Meeting of Narrogin District Townscape Committee.

Signed:
(CEO)

Date **23 August 2018**

These minutes were confirmed at the Narrogin District Townscape Committee Meeting held on ~~27 September 2018.~~

18th October

Signed:

(Presiding Person at the meeting at which minutes were confirmed)

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MINUTES

Narrogin District Townscape Committee

1. RECORD OF ATTENDANCE AND APOLOGIES

The Presiding Member, Cr Clive Bartron opened the meeting at 5:42 pm.

Committee Members

Cr C Bartron – Presiding Member

Cr M Fisher

Mr P White – Community member

Mr N Crossley – Arts Narrogin

Mrs K Bryant – Narrogin Chamber of Commerce

Mr C Bolton – Forrest Personnel

Mr M Wray – Highbury District Community Council

Staff

Mr A Awang – Executive Manager Development and Regulatory Services (EMDRS)

Ms L Bell – Administration Support Officer (ASO)

Apologies

Cr G Ballard

Mr C Bolton – Forrest Personnel

Mr M Wray – Highbury District Community Council

Ms S Guy – Manager Community Leisure and Culture (MCLC)

Observers

Nil

2. ANNOUNCEMENT BY THE MEMBER PRESIDING WITHOUT DISCUSSION

2.1 Disability services sector representative

It was noted that the representative for the disability sector Mr Bolton, has been absent for more than three consecutive meetings. The Presiding Member requested a letter be sent to Mr Bolton seeking confirmation of his future participation in the Narrogin District Townscape Committee.

It was also noted that there remains a vacant position on the Committee for a Community Member at large and an indigenous representative. The Presiding Member recommended the positions be advertised seeking applications from interested and suitably qualified individuals.

3. CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING

3.1 Minutes of the Meeting held on 28 June 2018

OFFICERS' RECOMMENDATION AND COMMITTEE RESOLUTION

Moved: Mr White

Seconded: Cr Fisher

That the Narrogin District Townscape Committee endorse

the Minutes of the Narrogin District Townscape Committee meeting held on 28 June 2018 as an accurate record of proceedings.

CARRIED: 5/0

4. MATTERS WHICH REQUIRE DECISION

4.1 Street Tree Planting program

Attachments

- Town of Narrogin Draft Street Tree Plan (2010)
- Summary of Observations and ideas 31 July 2018
- Town of Narrogin Street Tree Planning: Selections and Recommendations (2010)

The Presiding Member received correspondence including the above attachments from Narrogin District Townscape Committee member Mr P White together with a request that this item be included in the Minutes for discussion.

OFFICERS' RECOMMENDATION

That the Narrogin District Townscape Committee support the

inclusion of the Summary of Observations and Ideas by Mr P White, dated 31 July 2018 into the draft Shire of Narrogin Street Tree Planning Selections and Recommendation's Guide 2018.

COMMITTEE RESOLUTION

Moved: Mr Crossley

Seconded: Cr Fisher

That the Narrogin District Townscape Committee:

1. support the inclusion of the Summary of Observations and Ideas by Mr P White, dated 31 July 2018 into the draft Shire of Narrogin Street Tree Planning Selections and Recommendation's Guide 2018; and
2. in regards to the recommendations for the Narrogin Library in the Summary of Observations and Ideas by Mr White dated 31 July 2018, the Committee recommend that Council endorse the sensory garden in the 2017 Proposed Narrogin Library Courtyard Concept.

CARRIED: 5/0

Town of Narrogin Draft Street Tree Plan

Problems / Challenges / Opportunities

Introduction

In 2008, the Townscape street tree sub committee was formed. Its tasks were to:

- Examine and assess existing plantings
- Devise and design a selection process that can be implemented in order to maximise the advantages and reduce the disadvantages of street trees
- Prepare recommendations for the townscape committee for a streetscape renewal based on species that have clearly demonstrated:

For almost 18 months, members of the sub committee did just this, walking the streets of the Narrogin CBD, main approach roads and thoroughfares, parks and public open spaces. Four presentations were made to the Townscape committee prior to a major presentation to the Town Council in May 2010. Aside from the written plan, a number of guides to decision making were produced i.e. an evaluation spreadsheet which can be used to filter out “best bet” species from lengthy lists of potential species and another to help rate and rank particular design choices. There is also an inventory system being developed.

The notes below are excerpts from different presentations that reflect the thinking of the committee as it debated issues and refined its understanding of the concepts inherent in good planning and selection.

Selecting species for townscape requires people to look beyond an individual’s lifespan and, in some cases, to look beyond their own beliefs and experiences. For example in the latter case it might be the difference between evergreen and deciduous. An important part of this process was to refer back to the selection guidelines and to choose the right tree for the site rather than rely solely on personal preference. Notions that influence species choices include:

- Suitability to planting area e.g. size of plants, soil conditions, localised climatic conditions
- Minimal inputs required e.g. watering, pruning, fertilizing
- Maximum display e.g. timing and duration of flowering, non flowering characteristics
- Compatible with surrounding themes e.g. does it reflect (or compliment) adjacent plantings
- Providing a sense of local character e.g. capturing features which are part of the town or the district
- Providing a sense of the unique e.g. developing plantings which reflect the creativity of local residents

It has been of great assistance having the master plan guidelines. This helped determine a consistent approach e.g., what is the site like, what are the growing conditions, what can fit best into the site. Since the site is what allows any species to achieve its optimal performance, it is clearly the best start point. The need to set guidelines has been crucial to success as previously:

- No objective selection criteria were available
- Plantings had been historically driven by short term needs
- There were abundant examples of inappropriate plant selection
- Without guidelines there would be little chance of consensus

Town of Narrogin Draft Street Tree Plan

Certainly, the perfect tree has proved elusive. When we started, I was cognisant that previous efforts have not always been successful. Even when good selections had been made; our own management actions regarding the positioning and treatment of the beautiful, the graceful and the stately have rendered them asunder and horribly disfigured, and underperforming trees have been left out in full public view. One of the most important points to arise from this exercise is that if we simply cease planting trees in unsuitable locations we will have achieved a great deal.

It has also been an interesting exercise, bringing together a disparate group of people to try to achieve a common outcome.

From my perspective, the challenges for making appropriate tree selections lay in two directions:

- Technical
- Conceptual

Technical Challenges

There are some real problems with fitting new trees into a landscape that already has some trees, but also has roads driveways, powerlines, poor soils, good soils, etc. What did we know about sight distances from corners, where did the sewer pipes run and were trees likely to be a problem, how big did these trees grow anyway, were there any examples in Narrogin and were those examples good ones. What species were likely to be suitable, were there likely to be any cultivars better than others, etc, etc.

There was a scattered knowledge of what trees were presently along the streets, so it became important to go out and look. There was also a need to examine successful trees as well as poor performers e.g. some on watered lawns, others from inferior root stock. It became clear from these walks that the initial impressions of the condition and suitability of individual trees often varied greatly from the reality of a closer examination.

Some other technical points included trees under powerlines; that there may be a need to remove some trees that were inappropriate and that any replacement species would need to be carefully considered. It was recognised that in this respect that the committee could put ideas such as these forward, but it was up to council to debate and adopt.

Conceptual Challenges

Selecting trees suitable for townscaping is not something that everyone is practised in. It requires thought, careful consideration and a high degree of objectivity.

Certainly it is easy to “know” what is needed. I spoke to a number of people outside of the committee who said things like “oh well, why don’t you just plant xxxx?” However, most people appeared to select species for a very narrow range of reasons. It seemed to need a lot to take people out of their backyard where they have total control and put these suggestions into a wider landscape. When I explained the guiding principles it was interesting to see the response.

As mentioned earlier; selecting species for townscape requires people to look beyond an individual’s lifespan and, in some cases, to look beyond their own beliefs and experiences - the important part was to refer back to the guidelines and to select the right tree for the site for the right reasons.

Town of Narrogin Draft Street Tree Plan

There were two commonly used terms that initially occupied part of the committee's time – and this was very useful as I think it is these sorts of debates that helped clarify our perspectives.

The first is the term “Heritage”. When this was brought up, as it has been at Townscape, the issue was to define when and where this heritage was occurring. This is important as if its a case of matching trees with the heritage age of many of the buildings, then this would mean species such as Pines, Sugar gums, Boobiallas, Pepper trees, Cotton palms and Date palms. This suite of species has merit in certain places, but probably not in the CBD. I think the term “Formal” trees may have more credence.

Another concept that arose was that of “beauty”. It was hard to know how this could be defined. In one instance it might be because of flowers, another of foliage, another could be of shape. However, if the flowers only last a few weeks, if the foliage changes to a murky brown in winter, or the shape could be easily wrecked by strong winds, then it is difficult to understand how this term could be applied. There are a great number of trees that whilst not having the showiest flowers, have a range of other attributes which hold them in good stead long after the flowers have wilted. Bark texture, foliage hue and structure, form and the style in which the trees are planted are all part of the aesthetics.

“Beauty” in the sense it is often used also seems to come from the argument of “excluded middle” i.e., if it's not pretty, then it must be ugly. However, if you look back to the second criteria i.e. that of Desirable Characteristics of Trees, ugliness doesn't form part of the selection process. The tree that fits the greatest number of the selection criteria is the truest definition of beauty. We also should be cognisant of the range of other superlatives in the lexicon e.g., stately, robust, graceful.

Some other considerations included asymmetric plantings e.g. different species on either side of the road, or plantings on only one side. Several examples exist. People often find that avenues are appealing; however, it's not the only style of planting and in many places is almost impossible to achieve. An alternative is the development of patches or groups of trees. These build on the presence of existing vegetation.

It's also important to recognise that there are many areas that require attention; hence, there is scope for an array of trees for a variety of purposes.


SUMMARY

From problems such as poor soils, limited moisture availability, powerlines, broken landscapes, and so on, come the best opportunities to demonstrate the necessary resourcefulness to achieve these ends. There are opportunities to demonstrate that the Town of Narrogin has the capacity to cope with potential climate change and limited resources. It has a chance to design and implement plantings that follow best practise guidelines; hence are cost affective, environmentally sound, and aesthetically pleasing. It can also demonstrate that it has access to the other essentials i.e. skill, knowledge, enthusiasm and motivation.

We all share the vision that Narrogin will be a leafy town.

Peter White
Street Tree sub committee
June 2010


Summary of observations and ideas regarding Townscape matters:
Peter White / Clive Bartron 31st July 2018

Site	Discussion points	Suggestions
West side of Clayton rd. oval, May St entrance	Over the years, many trees have been lost from around the oval, but there is an opportunity to plant some either side of the May St. gates	Species such as <i>Eucalyptus tricarpa</i> or <i>Corymbia maculata</i>
Clayton Rd from Narrakine to Federal St.	Over the years, there have been many trees removed from this street and it looks forlorn for a major thoroughfare	Revisit the 2010 plan which had suggestions for tree planting
Recreation Centre parking area	This is a major expanse of concrete and bitumen, roastingly hot in summer and bleak in winter	Consider planting deciduous tree, in conjunction with porous pavement, every third or fourth parking bay.
Narrogin Library	Whilst it would be good to keep some of the existing trees, there are a number of factors weighing against them e.g., the species are renowned for their stature, there is likely to be considerable leaf / fruit drop, all three trees show signs of previous pruning damage / stem rot or mechanical weakness, their proximity to buildings or other infrastructure.	Remove the three trees and replace with the correct species in the proper location. Do not damage the <i>Arbutus unedo</i> !!
Council Office parking area – east side of buildings	This was a missed opportunity to demonstrate good streetscape practise. It should still be possible to retro fit the area with trees and porous concrete	An example from UWA that should be implemented 
Chicken Treat grounds	There is a small patch of ground to the east of the CT parking area and Fairway St. (opposite the visitors centre). Whilst it is not council land, previously there have been	Explore the notion of a memorandum of understanding with CT and install shade and picnic tables

Summary of observations and ideas regarding Townscape matters:
Peter White / Clive Bartron 31st July 2018

Site	Discussion points	Suggestions
	discussions about some joint development of the site that would be of benefit visitors as well as patrons.	
Fairway St. Pines	The once proud line of <i>Pinus radiata</i> var. <i>binata</i> has been reduced to one heritage listed tree – which is in poor condition. The trees were an important part of the landscape and early history and are likely to be lost completely. However it is possible to collect and propagate seed from the remaining tree and the original row replanted. The wood from the remaining tree could be salvaged and turned into furniture for public venues, thus perpetuating the history and memory of the plantings.	Collect seed and commence propagation work.
Federal St.	There are a number of sites along Federal Street between Egerton and Clayton rd. where additional trees could be planted.	Suggest continuing the <i>Ulmus glabra</i> which can be seen outside the Duke bottleshop
Federal St	The section of Federal St between Fortune and Egerton Streets was briefly discussed for tree planting options. However even if nibs were develop alongside the footpath, the presence of shop verandahs would preclude successful tree establishment	The vista could be improved by painting the verandah / awning front and sides
Railway parking area	This was an example of a successful planting with a species that is the correct stature for the landscape position, planted at the correct distance apart	
Southern roundabout	Seedlings now planted and site mulched	Follow on from this matter as an exercise in planning for good plant establishment, plan the event well in advance, order the plants in plenty of time for the nursery to source the correct size root stock, plant at the optimal time of the year
Northern roundabout	The question was raised if the site was suitable for trees to be planted in the centre of the roundabout. There would be few issues such as line of sight to deal with, but the potential salinity / winter waterlogging of the site would need to be investigated.	Discuss planting conditions and options with the MRD. <i>Casuarina obesa</i> , <i>Melaleuca strobophylla</i> and <i>M. halmaturorum</i> may be suitable options

Summary of observations and ideas regarding Townscape matters:
Peter White / Clive Bartron 31st July 2018

Site	Discussion points	Suggestions
Old nursery site	Since the old nursery has been removed, it has left a large expanse of nothingness at one of the main entrances to town. It is uncertain who owns the property or what the intention is for its development. However it is at the entrance to town and represents an opportunity to enhance the look of this part of town. It could be a site for tree planting or public art (or both)	Investigate site ownership and possibilities for site development
Town entrance / artwork panels, Makit Hardware	The Makit Hardware fence dominates the streetscape at that end of town and makes for an unattractive entrance to the town. Understandably the proprietors may not want art work painted onto their fence. However artwork could be applied to large panels that could be attached to the wall and removed when necessary without damage to the wall or cost to the proprietors.	Discuss options with Makit Hardware, table as agenda item for Townscape, discuss as part of a Public Art strategy
Kipling street	There are many gaps in the plantings from the outskirts of town to the roundabout	Revisit 2010 suggestions, carry out inventory of surviving trees and devise replacement plan for one or both sides of the road.
Coles carpark x 2	As with the Council carpark, both of these sites lack adequate shade and attempts should be made to increase vegetative cover in the parking area rather than just around the edge	 <p>Trial a planting based on this City of Fremantle example</p>

Town of Narrogin - Street Tree Planning; Selections and Recommendations

1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout / spacing recommendations	Comments on site
Fortune St. (Federal St – Earl St.)	Shelter, form, manageability, uniformity	<i>Ulmus parviflora</i> – Todd or Green English <i>Syzygium</i> Blaze or Allens magic) / <i>Westringia</i> <i>fruticosa</i> selections	Existing spacing satisfactory	All existing trees in centre of road way to be removed. Trees on pathways could be removed gradually once new trees become established. Garden beds to be replenished
Fortune St (Earl St – Williams rd)	Shelter, screening, colour	<i>Ulmus parviflora</i> – Todd or Green English	Nth Side Sth Side	Continue planting up to Park (see suggestions for Memorial Park Some older trees under powerlines may need to be removed
Egerton St (Federal St – Earl St.)	Form, view (taller trees to match building height)	<i>Pyrus calleryana</i> / Bradford. – spreading crown	– alongside existing shops – shops to roundabout. Variable spacing according to available sites	Options 1. Planting mainly to the west of the shops – avoid problems with verandahs 2. Plant <i>Populus</i> or similar spp. off verge in front of Bottle shop and RSL / Old Ambulance Hall Remove palms from near Bintamilling Arcade
Park St (Federal St – Kennedy St)	Colour, consistency	<i>Jacaranda mimosifolia</i>	Maintain existing spacing, some additional plants in Govt Offices	This species suited only to lower slope (note: pruning schedule necessary for best visual results)
Park St (Kennedy St – Earl St.)	Shelter, colour, screening	<i>Eucalyptus. newbeyi</i> <i>Eucalyptus tenera</i>	Nth Side Sth Side	Shallow soils require change of species 8 – 10m depending on space

¹ The underlying themes in all areas is that of suitability to site, which includes soils, moisture quality and availability, growing space, etc

² Impact and aesthetic appeal can be achieved through many plant characteristics and / or layout and density

³ Historic category difficult to quantify – many historic trees no longer deemed suitable

Town of Narrogin - Street Tree Planning; Selections and Recommendations

1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout / spacing recommendations	Comments on site
Park St (Federal St – Fairway St)	Planned, structured, historic link	<i>Agonis flexuosa</i> (after dark) / <i>Melaleuca bracteata</i> (Revolution Gold) with <i>Alyogyne hakeafolia</i>	Planter boxes “Collie” style	Links to railway goods shed and RI. Both sides of street (may be limited near Chicken Treat). Small picnic site near CT to be developed at same time.
Smith St	Not assessed			Need to develop specific recommendations should the project be approved
Earl St (Council Offices to Fortune St) (Fortune St to Egerton St) (Egerton St to Smith St) (Smith St to Ensign St) (Ensign St. to Clayton Rd)	Form, uniformity, colour	<i>Prunus nigra</i> <i>Pyrus calleryana:</i> Bursnozam “Burgundy Show”	W Side E Side	Discuss landscaping options with Police Dept and Masonic Lodge to link in with streetscape work Remove existing trees from alongside Coles Remove and replace existing trees up to council office Library Lawn – reduce lawn size, some paving and seating
Earl St (Clayton Rd to Exeter St)	Form, colour	<i>Melaleuca lineariifolia</i> (Snow in summer), <i>Allocasuarina torulosa</i> (Rose sheoak)	Opposite Bowling Club only	Increase size of verge, create angle parking

Town of Narrogin - Street Tree Planning; Selections and Recommendations

1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout / spacing recommendations	Comments on site
Federal St (Clayton Rd to Exeter St.)	Stature, form, uniformity	<i>Eucalyptus maculata</i> (Spotted Gum)	Group planting, no lines	Clean trunks and stature will create an attractive feature, may attract people to use the area, trees can develop to maturity without causing any problem. May need to negotiate with several interest groups. Good location for “historic” tree plantings
Federal St. (Clayton Rd to Edgerton St)	Uniformity, colour, form	<i>Ulmus glabra</i> (Golden Elm)	In nibs	Remove <i>Hymenosporum</i> . Remove <i>Populus</i> from under street lamp. Retain <i>Ficus</i> sp.
Federal St. (Edgerton St. to Park St)	Form, stature	<i>Tipuana tipu</i> on corners, <i>Lophostemon</i> / <i>Populus</i> on street	Maintain existing species and spacing	Develop a more sympathetic pruning regime for <i>Lophostemon</i> , instigate pruning on <i>Populus</i>
Federal St. (Park St to Falcon St)	Form, stature	Maintain existing species	Maintain existing species and spacing	Develop a more sympathetic pruning regime for <i>Lophostemons</i>
Federal St. (Falcon to Forrest)	Form, colour, continuity	<i>Prunus nigra</i> <i>Ulmus glabra</i> (Golden Elm)	W Side, under power lines, will need closer spacings E Side, no powerlines	Some existing trees white ant affected trees will need to be removed and replaced.
Federal St. (Forrest St to Butter Factory)	Form, colour, continuity	<i>Prunus nigra</i> <i>Ulmus glabra</i> (Golden Elm)	W Side, under power lines, will need closer spacings E Side, no powerlines	Some existing trees white ant affected trees will need to be removed and replaced.
Federal St. (Butter Factory to town outskirts)	Neatness	Maintain existing species	Various	Remove fence from planted area near MRD, removed dead trees / slash both sides of road.

Town of Narrogin - Street Tree Planning; Selections and Recommendations

2. Location: Entry Roads	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
Roundabout	Colour, visual impact	Maintain existing species	Maintain existing layouts	Establish and maintain maintenance program
Williams Road (Earl St to Johnston St)	Form, visual impact	<i>Jacaranda mimosifolia</i> <i>Prunus nigra</i>	As available	Northern side, powerlines, access to additional moisture. Some existing trees to be removed Southern side, no powerlines site. Some existing trees to be removed.
Williams Road (Johnson St. to Dalglish St)	Form, visual impact	<i>Callistemon viminalis</i> <i>Eucalyptus tenera, E. erythronema</i>	Northern side, (powerlines) Southern side	Limited access to additional moisture. Some existing trees to be removed. Very harsh site. Some existing trees to be removed. closer spacings to match tree stature
Williams Road (Dalglish St to Narrakine Rd)	Form, visual impact	<i>Prunus nigra</i> <i>Jacaranda mimosifolia</i> <i>Melaleuca lineariifolia</i>	Northern Side Southern Side	Shorter species under powerlines. Some existing trees may need to be removed. Taller trees on southern side with no powerlines Maintain planting pattern of alternate <i>Jacaranda</i> / <i>Melaleuca</i>
Williams Road (Narrakine Rd to Cemetery)	Neatness	Maintain existing species	Mtc of bush / existing trees, clumps, not rows	See Section on Car Parks and Grounds for Cemetery options Need signposts for truck parking Information bay needs some tree pruning Ongoing pruning / slashing of verges

Town of Narrogin - Street Tree Planning; Selections and Recommendations

2. Location: Entry Roads	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
Clayton Rd (Federal St to May St)	Colour, order, form	<i>Eucalyptus leucoxylon</i> <i>subsp. leucoxylon</i> <i>Callistemon viminalis</i> <i>Melia azedarach</i> (Caroline) <i>Eucalyptus maculata</i>	Nth Side of road Sth Side of road, trees at closer spacings Plantings on verge of parking area at JH centre	Broken landscape, powerlines Need to link planting to Earl St. Few good trees remaining No trees near tennis court No trees near swimming pool No trees near bowling green Remove and replace trees near hockey fields Entrance signs needed on roadverge for John Higgins, Rec Centre and Watercourse Cafe Consider planting some larger trees behind the John Higgins centre to break up the outline of the building
Clayton Rd (May St - Lefroy St)	Colour, uniformity	<i>Eucalyptus leucoxylon</i> <i>subsp. leucoxylon</i> <i>Callistemon viminalis</i>	Nth Side of road Sth Side of road, trees at closer spacings	Some trees of each species already growing, new trees can be matched in with these.
Lefroy St (Clayton Rd to Williams Rd)				Not assessed yet
Roundabout Link Road, Clayton Road, Kipling St	Colour, form	<i>Mixed species</i>	Dependent on species	Difficult site See MRD re species choice
Kipling St Roundabout to Wickepin rd	Form, impact, feature	<i>Callistemon viminalis</i> <i>Eucalyptus leucoxylon</i> <i>subsp. leucoxylon</i>	Nth Side. Up to 3 / house frontage Sth Side. 3 / house frontage	Variable spacing to fit circumstances Most existing trees in poor condition and will need to be removed (poss keep <i>Brachychitons</i>). Clean up and slash roadverge to 90 km sign. Very irregular spacings with some good trees, may

Town of Narrogin - Street Tree Planning; Selections and Recommendations

2. Location: Entry Roads	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
				need to phase changes in gradually See comments in point 6
Gt. Sthn H'way (Nth)	Form, impact	<i>Melaleuca leucodendron</i> or <i>M. lanceolata</i> Increase number in park	W Side. Up to 3 per house frontage E Side. Planting in Park, not roadverge	Hard site, needs good preparation No room for plants between Northwood and Kipling St Clean up and slash roadverge to 80 km sign Check out species in park and match to these.
Gt. Sthn H'way (Sth) – see Federal St				
Link Road (Section 2)	Colour, form, impact	<i>Melaleuca strobophylla</i>	Clumps in open areas at either end of road	Limited options, alignment broken by gutters, bridge, fences and existing vegetation. Need to focus more on health of existing verge plantings. It may be possible to plant some trees in the median strip (very limited space) Consider some matching plantings of <i>Washingtonia rubusta</i>
Herald St (Federal St to Havelock St)	Colour, form	<i>Callistemon viminalis</i> (red flowers) <i>Melaleuca lineariifolia</i> / <i>M quinquinervia</i>	N Side (powerline) S Side	More open area, needs some larger trees, sight lines important near major intersections and railway line, some useful existing trees to match species, some buildings to consider
Herald St (Havelock St to Argus St)	Colour, form, uniformity	<i>Callistemon viminalis</i> (yellow flowers) <i>Ulmus parviflora</i>	N Side (powerline) S Side	A few good trees remaining that could be retained
Herald St (Argus St to Outskirts)	Colour, form, impact	<i>Callistemon viminalis</i> (pink flowers) <i>Eucalyptus stricklandii</i>	N Side (powerline) S Side, 2 -3 per block frontage	Not much space, some existing garden plantings, needs some smaller sized trees

Town of Narrogin - Street Tree Planning; Selections and Recommendations

2. Location: Entry Roads	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
Forrest St (Federal St to Glyde St)	Colour, uniformity	<i>Prunus nigra</i> <i>Callistemon viminalis</i> , <i>Callistemon salignus</i> and <i>Melaleuca lineariifolia</i>	Nth Side (powerlines) Sth Side	Many specimens of these species already growing. Closer spacing for smaller sized trees, Callistemons would do well in the moist site
Forrest St (Glyde St to Floreat St)	Colour, stature	<i>Callistemon viminalis</i> Mixed <i>Eucalyptus</i> spp. E.g. <i>torquata</i> and <i>leucoxylon</i>	Nth Side (powerlines) Sth side	Scattered specimens already present, very little of anything else Retain small patch of resident planted <i>Jacaranda mimosifolia</i> outside Karinya
Forrest St (Floreat St to Narrakine Rd)	Colour, stature	<i>Callistemon viminalis</i> Mixed <i>Eucalyptus</i> spp. E.g. <i>torquata</i> and <i>leucoxylon</i> <i>Allocasuarina turolosa</i>	Nth Side (powerlines) Sth Side Sth Side	Note: very limited planting opportunities M ^c Kenzie st to Narrakine rd. Many specimens already present, very little of anything else Forrest St block verge (Need to make recommendations for the Forrest Street development)
Narrakine Rd (Williams Rd to Forrest St)	Colour	No plantings required <i>Eucalyptus torquata</i>	W Side (powerlines) E Side	Foxes Lair reserve Very limited space between path, road, driveways etc
Narrakine Rd (Williams Rd to Clayton Rd)	Colour, shade	<i>Callistemon viminalis</i> <i>Eucalyptus</i> spp e.g. <i>torquata</i>	W Side (powerlines) E Side	No planting options from Williams road to Hough St on W side alongside Motel and reserve. Continue theme on E side, but with smaller stature rough barked trees. Pathway on E side could compromise planting, need to assess site carefully

Town of Narrogin - Street Tree Planning; Selections and Recommendations

2. Location: Entry Roads	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
Narrakine Rd (Clayton Rd to Elliott St)	Structure	Occasional <i>Callistemon viminalis</i> See comments	W Side (powerlines) E Side	Some good plantings exist on the adjacent private land which could obviate the need for other planting. Careful selection needed to match in with existing plantings, needs more detailed assessment, very variable site, multiple crossovers.
Narrakine Rd (Elliott St to Fleay Rd)	Uniformity	No plantings required <i>Eucalyptus scoparia</i>	W Side (powerlines) E Side	There are many obstructions, soil type changes etc under the powerlines making establishing trees difficult. Some good plantings exist on the adjacent private land which could obviate the need for other planting. Need to remove underperforming mallee species. Large York gums on E side make successful planting very unlikely. Need to assess quality of landholder verge plantings.

3. Location: Minor Roads	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
Gray St (Kipling St to Doney St)	Colour, shade	<i>Eucalyptus nicholli</i> <i>Callistemon viminalis</i>	W side E side (powerlines)	Many existing trees, occasional spaces
Gray St (Doney St to Hansard St)	Colour, continuity, diversity	<i>Brachychiton acerifolia</i> <i>Eucalyptus</i> spp e.g. <i>E. forrestiana</i> , <i>E. erythronema</i> , <i>E. olivacea</i>	W Side, 2 per road frontage E Side, 4 per road frontage	Difficult area, soil type limitations Spacing dependant on species
Gray St (Hansard St to High School)	Shade, colour, statement, screening	<i>Jacaranda mimosifolia</i> <i>Lophostemon confertus</i> <i>Eucalyptus sideroxylon</i>	W Side Centre	Some existing <i>Lophostemon</i> to be retained Bus stop area

Prepared by Peter White, Lee Thomson, Mike Brown and Mary Silverman: 2010

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3. Location: Minor Roads	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
		(Red Ironbark) <i>Eucalyptus argyphaea</i> (Silver mallet) <i>Callistemon</i> sp.	E Side (powerline)	Tub plantings on verge May need sturdy tree guards
Burns St (Kipling St to Doney St)	Colour, Uniformity	<i>Prunus nigra</i> <i>Fraxinus pennsylvanica</i> Urbanite <i>Jacaranda mimosifolia</i>	W Side 4 per house frontage E Side	Open area. Few interruptions Some sections have existing Jacarandas
Moore St (Kipling St to Doney St)	Colour, uniformity, shade	<i>Lophostemon confertus</i> <i>Fraxinus griffithii</i>	W Side E Side	Continuations of existing planting, some new planting
Homer St Havelock st to Gray St	Shade, uniformity	<i>Lophostemon confertus</i> <i>Callistemon viminalis</i> Mixed <i>Eucalyptus</i> spp	N Side (powerline) 3 per house frontage S Side 3/1	See comment in point 6 Infill of existing plantings Some planting possible outside school Very limited planting alongside District Education Office
Furnival St Federal St – Narrakine rd	Colour, form	<i>Callistemon viminalis</i> <i>Eucalyptus sideroxylon</i> / <i>nicholli</i>	N Side, 2 -3 per house frontage S Side, 1 per house frontage	Note: no planting alongside the Lewis St bush block. Match in with existing planting

Town of Narrogin - Street Tree Planning; Selections and Recommendations

4. Location: Main Parks	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
Memorial Park	Ambience, restful, shade, historic / commemorative	E.g. <i>Cedrus libani</i> <i>Pinus halopensis</i> <i>Acacia</i> sp. <i>Rosemary officialis</i> <i>Papaver rhoeas</i> (Flanders Poppies)	As appropriate	Choice of trees that have historical significance e.g. pine from lone pine hill, Acacia as Australia's floristic emblem. Site comprises three sections which for detailed plans are required – need to engage with the RSL. Screening structures for water tank required ala shadow figure from Gnarojin Park bridge. Consider grant monies / artist in residence
Mackie Park	Functional	Limited scope for additional species. Roses in garden beds	Need to keep open spaces	Replanting of roses with same species Repairs needed to rotunda Artwork on walls facing park Possible relocation / removal of rotunda Use of sails or similar structure
Gnarojin Park	Various	See original plan	As appropriate	Pruning and other mtc required, repairs to Newton House, some redesign of planting layouts possible
Lions Park	Ambience, restful, shade, family use	Multiples of existing species	As appropriate	Consider removal of selected <i>Eucalyptus cladocalyx</i>

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5. Location: Car Parks and Grounds	Design Aims	Species recommendations	Layout / spacing recommendations	Comments on site
Railway Carpark	Functional	<i>Eucalyptus maculata</i> Spotted gum	Two trees evenly spaced between street lights, with one only on the northern end of the row	Need species that will survive in bitumen, give tall shade and not interfere with street lighting
Council Carpark (Council Offices / Library)	Shade, function, colour	<i>Eucalyptus erythronema</i> , <i>E. eremophila</i> , <i>E. newbeyana</i>	Where appropriate in nibs	Existing trees and some surrounding trees to be removed e.g. <i>Pinus radiata</i> , <i>Eucalyptus cladocalyx</i>
Council Carpark (CWA)	Shade, uniformity	See original plan <i>Eucalyptus steedmanii</i> , <i>E. newbeyana</i>	Approx 15 m spacing	Some existing trees to be removed e.g. <i>Brachychiton</i> sp. 2 <i>E. torquata</i> could be retained
Leisure Centre	Colour, visual impact, shade, form	<i>Zelkova serrata</i> (Green Vase)	4 trees, approx 10m spacing	Some existing trees need to be removed.
Museum / Old Courthouse and carpark	Shade, aesthetics	<i>Liquidambar styraciflua</i> <i>Prunus nigra</i> <i>Eucalyptus leucoxylo</i> subsp. <i>leucoxylo</i>	Spacing to match existing trees	Remove old <i>Melaleucas</i> (and fence) on E side of parking area. Expand garden beds, plant trees SE corner from building; need new pots, etc Needs detailed plan developed Consider redevelopment of south side carpark; e.g. development of island and angle parking layout.
Cemetery	Shade, function	Mixed white trunked Eucalypts, E.g. <i>E. camaldulensis</i> , <i>E. leucoxylo</i> , <i>E. scoparia</i>	On existing spacing	W side of road to be developed for parking

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Recommend List of Suburban Streets with Historic planting. to be retained in spite of high maintenance..

6. Location	Species	Comment
Homer St (Havelock to Argus)	<i>Lophostemon confertus</i>	Maintain trees on both sides of the road in this section
Kipling St (near Hillman St)	<i>Plantanus acerifolius</i>	Trees on Nth side, under powerlines - could be retained in the short term, but with gradual removal



Eucalyptus erythronema Red flowered mallee [Image © John Colwill 2010]

4.2 Draft Street Tree Policy incorporating the Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018

Attachment

- Draft Street Tree Policy appended with the Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018 (Draft)

Background

At the Narrogin District Townscape Committee Meeting held on 29 March 2018, the draft Street Tree Policy was accepted by the Committee, and recommended to Council for adoption. Appended to the Street Tree Policy was the 2010 Town of Narrogin Street Tree Planning: Selections and Recommendations Report, which was prepared by the former Town of Narrogin's Townscape Committee Street Tree sub Committee.

Comment

On 31 July 2018 Narrogin District Townscape Committee member Mr P White documented and submitted by email to the Committee's Presiding Member, a summary of observations and ideas following visits to a number of locations within the Narrogin townsite.

The summary records the site and current condition of existing trees and makes recommendations for future tree planting and street scape projects.

Summary

To support the draft Street Tree Policy, and provide current information and recommendations, the recommendations made in the 2010 Town of Narrogin Street Tree Planning: Selections and Recommendations have been incorporated into the draft Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018, together with;

- the recommendations contained in Mr Whites' summary, dated 31 July 2018;
- the street tree planting recommendations made by H+H Architects in the 2016 Townscape Study Review (adopted by Council at the Ordinary Council Meeting held on 22 February 2017), and,
- the 2017 Highbury Townscape Plan (adopted by Council at the Ordinary Council Meeting held on 28 March 2018).

The Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018 will be appended to the draft Street Tree Policy when presented to Council for adoption at the next available Ordinary Meeting.

OFFICERS' RECOMMENDATION

That in respect of the draft Street Tree Policy, the Narrogin District Townscape Committee:

1. Endorse the draft Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018 incorporating the following;
 - a. the recommendations made in the 2010 Town of Narrogin Street Tree Planning: Selections and Recommendations;
 - b. the recommendations contained in Mr Whites' summary dated 31 July 2018; and
 - c. the street tree planting recommendations documented by H+H Architects in the 2016 Townscape Study Review, and, the 2017 Highbury Townscape Plan.
2. Recommend that Council adopt the Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018 as an attachment to the Street Tree Policy.

COMMITTEE RESOLUTION

Moved: Mr White

Seconded: Mrs Bryant

That in respect of the draft Street Tree Policy, the Narrogin District Townscape Committee:

1. Endorse the draft Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018 incorporating the following;
 - a. the recommendations made in the 2010 Town of Narrogin Street Tree Planning: Selections and Recommendations;
 - b. the recommendations contained in Mr Whites' summary dated 31 July 2018; and
 - c. the street tree planting recommendations documented by H+H Architects in the 2016 Townscape Study Review, and, the 2017 Highbury Townscape Plan.
2. Recommend that Council adopt the Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018 as an attachment to the Street Tree Policy.
3. Recommend that the five entry roads into Narrogin as outlined in the draft Shire of Narrogin Street Tree Planning Selections and Recommendations Guide 2018, are recorded as priority locations for street tree planting within the 2018/2019 financial year.

CARRIED: 5/0

15.3 Street Trees

Statutory context Shire of Narrogin Public Places and Local Government Property Local Law 2016

Corporate context Delegation 11.3 Public Places and Local Government Property Local Law 2016

History Adopted (date adopted by Council)

Policy Statement

Purpose

1. To manage the planting, maintenance and care of street trees in public places and on local government property, in particular but not limited to road reserves, within the townsites of Narrogin and Highbury.
2. Trees are a valuable community asset, enhancing both the built and the natural environment of the Shire. They contribute to the well-being of the community and through their longevity serve as a cultural link through generations.
3. The Shire of Narrogin recognises these values and is committed to the protection and maintenance of trees whilst maintaining its obligations to provide a safe environment.

Application

1. Area of Application

This policy applies to –

- a) Narrogin townsite, and
- b) Highbury townsite

2. Tree Protection

- a) All trees on land under the care and control of the Shire of Narrogin will be protected in accordance with relevant local laws, regulations and acts and these guidelines.
- b) Significant trees on Shire and public property will be recorded in the *Street Tree Planning: Selections and Recommendations Report 2010*.
- c) For development applications, retention of mature trees or trees of significance on public property may be included as a condition of approval.
- d) Trees on private property are the responsibility of the land owner.

3. Tree Removal

- a) Authorisation:
Removal of any tree on Shire of Narrogin controlled property can only be given by the Executive Manager, Technical and Rural Services (EMTRS), or the Chief Executive Officer (CEO). Disputes may be subject to formal referral to Council. Applications for tree removal must be in writing stating the reason why the tree should be removed.
- b) Replacement:
In most instances of tree removal and where practicable, a replacement tree will be planted in a suitable location at the discretion of the EMTRS with reference to the *Street Tree Planning: Selections and Recommendations Report 2010*.
- c) Removal not justified:
Tree removal will not be justified by any of the following reasons:

- i) Tree obscuring commercial advertising signs
 - ii) The growth of the tree is obstructing views
 - iii) Tree litter/leaf fall/debris
 - iv) Tree casting unwanted shade
 - v) Resident requests an alternate species
 - vi) A perceived danger a tree might fall in a storm
- d) Removal justified:
- Tree removal may be justified by any of the following reasons:
- i) The tree is dead or dying and remedial techniques are not possible
 - ii) The tree is causing damage to property, infrastructure or public utilities and the cost of remedial works outweighs the value of the tree
 - iii) Where, subsequent to a risk assessment undertaken by the Shire of Narrogin, the tree presents an immediate danger to the public

4. Tree Planting and Replacement

- a) The Shire shall be responsible for the planting and replacement of all street trees, trees in parks and trees on land under the care and control of the Shire of Narrogin.
- b) Trees will be chosen from the approved species list in the *Street Tree Planning: Selections and Recommendations Report 2010*, by the EMTRS.
- c) Trees under power lines whether new or replacement planting, will only be low growth species as listed in the *Street Tree Planning: Selections and Recommendations Report 2010*, with the aim of reducing pruning costs and making better use of the Shire's resources.
- d) Well established trees will continue to be pruned as required, unless they are deemed as an unsuitable species by EMTRS whereby they may be removed.
- e) All tree planting near assets such as footpaths, roads, fences, installations such as electricity, water and other utilities where root invasion may cause damage to such asset will include the installation of root guards, to reduce or eliminate damage to other assets and property
- f) Trees should be planted in winter, preferably June and July
- g) Local native species will be used when planting in rural or bushland areas.

5. Street Tree Pruning and Maintenance

- a) Pruning and maintenance of trees will be undertaken by the Shire of Narrogin in an annual program which gives priority to under powerline pruning, the CBD, parks and other significant public spaces, and attends to other trees on an as needs basis.
- b) Tree pruning will only be authorised to be undertaken by personnel approved by the Shire of Narrogin who have suitable training and practical experience in arboricultural techniques. Trees under powerlines will be pruned to meet clearance requirements as directed by Western Power or other electrical utilities of the day.
- c) Pruning will not be carried out for purposes such as to improve views, reduction of leaf fall debris, to provide visual access to commercial signs reduction of shade or other reasons that may detract from the natural amenity and purpose of the tree or where pruning will affect the health and structural integrity of the tree.
- d) The Shire of Narrogin may water new tree planting through the first two years on an as needs basis. Should a resident wish to water and care for a new street tree that is directly in front of or adjoining their property then the EMTRS may approve this.

6. Development Requests

- a) Where tree removal is approved in a development plan at the request of private land owners or commercial developers, the full cost of the tree removal including stump grinding and site remediation will be met by the applicant. All attempts must be made to retain healthy suitable trees in the first instance.
- b) Where the relocation of a crossover or a request for vehicular access requires tree removal the applicant must meet the cost of the tree removal as in 6(a). All attempts must be made to

retain healthy suitable trees including finding an alternative location for a crossover so as to retain a tree.

- c) Where trees are indicated for removal on a streetscape plan, landscape plan or works program approved by the Shire, an equal number of trees may be planted in other suitable sites at the discretion of the EMTRS.
- d) All trees to be provided as a result of development requests will be chosen with reference to the *Street Tree Planning: Selections and Recommendations* and authorised by the EMTRS.

7. Public Awareness & Community Responsibility

- a) The Shire of Narrogin will encourage property owners to retain trees on private property, particularly where they contribute to the skyline or streetscape.
Residents wishing to extend garden planting onto their verge must seek permission from the Shire, ensuring thoroughfare is retained, and site lines are not hindered. The applicant will supply plan/design to the EMTRS for approval. The maintenance of verge plantings will be by the private land owner. The Shire reserves the right to remove the verge planting at any time due to disputes, the planting representing a hazard or at the discretion of the EMTRS.
- b) Businesses, schools and government organisations will be encouraged to develop and maintain appropriate plantings particularly on the street front verge. The maintenance of verge plantings will be by the private land owner. The Shire reserves the right to remove the verge planting at any time due to disputes, the planting representing a hazard or at the discretion of the EMTRS.
- c) Residents will be encouraged to monitor the needs of newly planted trees adjacent to their property and provide additional watering when required.
- d) Disputes between neighbours over trees that are not under the jurisdiction of the Shire will not be entered into, unless the tree presents a hazard, whereby the Local Government Act 1995 will be referred to.
- e) Annual street tree planting will be undertaken by the Shire. Residents will be able to request street trees to be planted on their verge by contacting the Shire. The tree species will be determined by the Shire of Narrogin with reference to the *Street Tree Planning: Selections and Recommendations Report 2010*.

– End of Policy

Notes

Abbreviations

EMTRS Executive Manager, Technical and Rural Services
 CEO Chief Executive Officer
 CBD Central Business District



Shire of Narrogin Street Tree Planning: Selections and Recommendations Guide 2018

This guide contains information researched and documented in the 2010 report by the then Town of Narrogin Townscape Committee comprising Peter White, Lee Thomson, Mike Brown and Mary Silverman.

The 2010 report was the subject of a review by H+H Architects as part of the 2016 Narrogin Townscape Review which was adopted by Council on 22 February 2017 and contains the recommendations for the Narrogin CBD and Highbury townsite.

Shire of Narrogin Street Tree Planning: Selections and Recommendations Guide 2018 Page 1 of 26

1. The underlying themes in all areas is that of suitability to site, which includes soils, moisture quality and availability, growing space, etc
2. Impact and aesthetic appeal can be achieved through many plant characteristics and / or layout and density
3. Historic category difficult to quantify — many historic trees no longer deemed suitable

1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Fortune St. (Federal St to Earl St)	Shelter, form, manageability, uniformity	<i>Ulmus parviflora</i> -Todd or Green English <i>Syzygium</i> Blaze or Aliens magic) / <i>Westringia</i> <i>fruticosa</i> selections	Existing spacing satisfactory	All existing trees in centre of road way to be removed. Trees on pathways could be removed gradually once new trees become established Garden beds to be replenished
Fortune St (Earl St to Williams Rd)	Shelter, screening, colour	<i>Ulmus parviflora</i> -Todd or <i>Green English</i>	Nth Side Sth Side	Continue planting up to Park (see suggestions for Memorial Park) Some older trees under powerlines may need to be removed
Egerton St (Federal St to Earl St)	Form, view (taller trees to match building height)	<i>Pyrus calleryana</i> / Bradford -spreading crown	-alongside existing shops -shops to roundabout. Variable spacing according to available sites	Options Planting mainly to the west of the shops -avoid problems with verandahs. Plant <i>Populus</i> or similar spp. off verge in front of Bottle shop and RSL / Old Ambulance Hall Remove palms from near Bintamilling Arcade
Park St (Federal St to Kennedy St) (Kennedy St to Earl St)	Colour, consistency Shelter, colour, screening	<i>Jacaranda mimosifolia</i> <i>Eucalyptus. newbeyi</i> <i>Eucalyptus tenera</i>	Maintain existing spacing, some additional plants in Govt Offices Nth Side Sth Side	This species suited only to lower slope (note: pruning schedule necessary for best visual results) Shallow soils require change of species 8 - 10m depending on space

Shire of Narrogin Street Tree Planning: Selections and Recommendations Guide 2018 Page 2 of 26

1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Park St (Federal St to Fairway St)	Planned, structured, historic link	<i>Agonis flexuosa</i> (after dark) / <i>Melaleuca bracteata</i> (Revolution Gold) with <i>Alyogyne hakeafolia</i>	Planter boxes "Collie" style	Links to railway goods shed and R.I. Both sides of street (may be limited near Chicken Treat). Small picnic site near CT to be developed at same time
Smith St	Not assessed			Need to develop specific recommendations should the project be approved
Earl St (Council Offices to Fortune St) (Fortune St to Egerton St) (Egerton St to Smith St) (Smith St to Ensign St) (Ensign St. to Clayton Rd)	Form, uniformity, colour	<i>Prunus nigra</i> <i>Pyrus calleryana:</i> Bursnozam "Burgundy Show"	W Side In nibs. Most line up, some offset, but still in straight lines E Side	Discuss landscaping options with Police Dept and Masonic Lodge to link in with streetscape work Remove existing trees from alongside Coles Remove and replace existing trees up to council office Library Lawn — reduce lawn size, some paving and seating
Earl St (Clayton Rd to Exeter St)	Form, colour	<i>Melaleuca lineariifolia</i> (Snow in summer), <i>Allocasuarina torulosa</i> (Rose sheoak)	Opposite Bowling Club only	Increase size of verge, create angle parking

Shire of Narrogin Street Tree Planning: Selections and Recommendations Guide 2018 Page 3 of 26

1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Federal St (Clayton Rd to Exeter St)	Stature, form, uniformity	<i>Eucalyptus maculata</i> (Spotted Gum)	Group planting, no lines	Clean trunks and stature will create and attractive feature, may attract people to use the area, trees can develop to maturity without causing any problem. May need to negotiate with several interest groups. Good location for "historic" tree plantings
Federal St. (Clayton Rd to Edgerton St)	Uniformity, colour, form	<i>Ulmus glabra</i> (Golden Elm)	In nibs	Remove <i>Hymenosporum</i> . Remove <i>Populus</i> from under street lamp. Retain <i>Ficus sp.</i>
Federal St. (Edgerton St. to Park St)	Form, stature	<i>Tipuana tipu</i> on corners, <i>Lophostemon</i> / <i>Populus</i> on street	Maintain existing species and spacing	Develop a more sympathetic pruning regime for <i>Lophostemon</i> , instigate pruning on <i>Populus</i> .
Federal St. (Park St to Falcon St)	Form, stature	Maintain existing species	Maintain existing species and spacing	Develop a more sympathetic pruning regime for <i>Lophostemons</i>
Federal St. (Falcon to Forrest)	Form, colour, continuity	<i>Prunus nigra</i> <i>Ulmus glabra</i> (Golden Elm)	W Side, under power lines, will need closer spacings E Side, no powerlines	Some existing trees white ant affected trees will need to be removed and replaced
Federal St. (Forrest St to Butter Factory)	Form, colour, continuity	<i>Prunus nigra</i> <i>Ulmus glabra</i> (Golden Elm)	W Side, under power lines, will need closer spacings E Side, no powerlines	Some existing trees white ant affected trees will need to be removed and replaced

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1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Federal St. (Butter Factory to town outskirts)	Neatness	Maintain existing species	Various	Remove fence from planted area near MRWA, removed dead trees / slash both sides of road
2. Location: Entry Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Roundabout	Colour, visual impact	Maintain existing species	Maintain existing layouts	Establish and maintain maintenance program
Williams Road (Earl St to Johnston St)	Form, visual impact	<i>Jacaranda mimosifolia</i> <i>Prunus nigra</i>	As available	Northern side, powerlines, access to additional moisture. Some existing trees to be removed Southern side, no powerlines site Some existing trees to be removed
Williams Road (Johnson St. to Daglish St)	Form, visual impact	<i>Callistemon viminalis</i> <i>Eucalyptus tenera, E.</i> <i>erythronema</i>	Northern side, (powerlines) Southern side	Limited access to additional moisture. Some existing trees to be removed Very harsh site. Some existing trees to be removed. Closer spacings to match tree stature

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2. Location: Entry Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Williams Road (Daglish St to Narrakine Rd)	Form, visual impact	<i>Prunus nigra</i> <i>Jacaranda mimosifolia</i> <i>Melaleuca lineariifolia</i>	Northern Side Southern Side	Shorter species under powerlines. Some existing trees may need to be removed Taller trees on southern side with no powerlines Maintain planting pattern of alternate Jacaranda / Melaleuca
Williams Road (Narrakine Rd to Cemetery)	Neatness	Maintain existing species	Maintenance of bush / existing trees, clumps, not rows	See Section on Car Parks and Grounds for Cemetery options Need signposts for truck parking Information bay needs some tree pruning Ongoing pruning / slashing of verges

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2. Location: Entry Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Clayton Rd (Federal St to May St)	Colour, order, form	<i>Eucalyptus leucoxylon</i> <i>subsp. leucoxylon</i> <i>Callistemon viminalis</i> <i>Melia azedarach</i> (Caroline) <i>Eucalyptus maculata</i>	Nth Side of road Sth Side of road, trees at closer spacings Plantings on verge of parking area at JH centre	Broken landscape, powerlines Need to link planting to Earl St. Few good trees remaining No trees near tennis court No trees near swimming pool No trees near bowling green Remove and replace trees near hockey fields Entrance signs needed on road verge for John Higgins, Rec Centre and Watercourse Café Consider planting some larger trees behind the John Higgins centre to break up the outline of the building
Clayton Rd (May St - Lefroy St)	Colour, uniformity	<i>Eucalyptus leucoxylon</i> <i>subsp. leucoxylon</i> <i>Callistemon viminalis</i>	Nth Side of road Sth Side of road, trees at closer spacings	Some trees of each species already growing, new trees can be matched in with these
Lefroy St (Clayton Rd to Williams Rd)				Not assessed yet

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2. Location: Entry Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Roundabout Link Road, Clayton Road, Kipling St	Colour, form	Mixed species	Dependent on species	Difficult site See MRWA re species choice
Kipling St Roundabout to Wickepin Rd	Form, impact, feature	<i>Callistemon viminalis</i> <i>Eucalyptus leucoxylon</i> subsp. <i>leucoxylon</i>	Nth Side. Up to 3 /house frontage Sth Side. 3 / house frontage	Variable spacing to fit circumstances Most existing trees in poor condition and will need to be removed (poss keep <i>Brachychitons</i>) Clean up and slash road verge to 90 km sign Very irregular spacings with some good trees, may need to phase changes in gradually.
Gt. Sthn H'way (Nth)	Form, impact	<i>Melaleuca leucodendron</i> or <i>M lanceolate</i> Increase number in park	W Side. Up to 3 per house frontage E Side. Planting in Park, not road verge	Hard site, needs good preparation. No room for plants between Northwood and Kipling St Clean up and slash road verge to 80 km sign Check out species in park and match to these
Gt. Sthn H'way (Sth) — see Federal St				
Link Road (Section 2)	Colour, form, impact	<i>Melaleuca strobophylla</i>	Clumps in open areas at either end of road	Limited options, alignment broken by gutters, bridge, fences and existing vegetation. Need to focus more on health of existing verge plantings. It may be possible to plant some trees in the median strip (very limited space) Consider some matching plantings

Shire of Narrogin Street Tree Planning: Selections and Recommendations Guide 2018 Page 8 of 26

2. Location: Entry Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Herald St (Federal St to Havelock St)	Colour, form	<i>Callistemon viminalis</i> (red flowers) <i>Melaleuca lineariifolia</i> / <i>M quinqinervia</i>	N Side (powerline) S Side	More open area, needs some larger trees, sight lines important near major intersections and railway line, some useful existing trees to match species, some buildings to consider
Herald St (Havelock St to Argus St)	Colour, form, uniformity	<i>Callistemon viminalis</i> (yellow flowers) <i>Ulmus parviflora</i>	N Side (powerline) S Side	A few good trees remaining that could be retained
2. Location: Entry Roads	Design Aims 123	Species recommendations	Layout /spacing recommendations	Comments on site
Herald St (Argus St to Outskirts)	Colour, form, impact	<i>Callistemon viminalis</i> (pink flowers) <i>Eucalyptus stricklandii</i>	N Side (powerline) S Side, 2-3 per block frontage	Not much space, some existing garden plantings, needs some smaller sized trees
Forrest St (Federal St to Glyde St)	Colour, uniformity	<i>Prunus nigra</i> <i>Callistemon viminalis</i> , <i>Callistemon salignus</i> and <i>Melaleuca lineariifolia</i>	Nth Side (powerlines) Sth Side	Many specimens of these species already growing. Closer spacing for smaller sized trees, Callistemons would do well in the moist site
Forrest St (Glyde St to Floreat St)	Colour, stature	<i>Callistemon viminalis</i> Mixed <i>Eucalyptus</i> spp. E.g. <i>torquata</i> and <i>leucoxyton</i>	Nth Side (powerlines) Sth side	Scattered specimens already present, very little of anything else Retain small patch of resident planted <i>Jacaranda mimosifolia</i> outside Karinya

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2. Location: Entry Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Forrest St (Floreat St to Narrakine Rd)	Colour, stature	<i>Callistemon viminalis</i> Mixed <i>Eucalyptus</i> spp. E.g. <i>torquata</i> and <i>leucoxydon</i> <i>Allocasuarina turolosa</i>	Nth Side (powerlines) Sth Side Sth Side	Note: very limited planting opportunities McKenzie St to Narrakine Rd Many specimens already present, very little of anything else Forrest St block verge (Need to make recommendations for the Forrest Street development)
Narrakine Rd (Williams Rd to Forrest St)	Colour	No plantings required <i>Eucalyptus torquata</i>	W Side (powerlines) E Side	Foxes Lair reserve Very limited space between path road, driveways etc
Narrakine Rd (Williams Rd to Clayton Rd)	Colour, shade	<i>Callistemon viminalis</i> <i>Eucalyptus</i> spp e.g. <i>torquata</i>	W Side (powerlines) E Side	No planting options from Williams road to Hough St on W side alongside Motel and reserve Continue theme on E side, but with smaller stature rough barked trees Pathway on E side could compromise planting, need to assess site carefully
Narrakine Rd (Clayton Rd to Elliott St)	Structure	Occasional <i>Callistemon viminalis</i> See comments	W Side (powerlines) E Side	Some good plantings exist on the adjacent private land which could obviate the need for other planting Careful selection needed to match in with existing plantings, needs more detailed assessment, very variable site, multiple crossovers

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2. Location: Entry Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Narrakine Rd (Elliott St to Fleay Rd)	Uniformity	No plantings required <i>Eucalyptus scoparia</i>	W Side (powerlines) E Side	There are many obstructions, soil type changes etc under the powerlines making establishing trees difficult Some good plantings exist on the adjacent private land which could obviate the need for other planting Need to remove underperforming mallee species Large York gums on E side make successful planting very unlikely Need to assess quality of landholder verge plantings
3. Location: Minor Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Gray St (Kipling St to Doney St)	Colour, shade	<i>Eucalyptus nicholli</i> <i>Callistemon viminalis</i>	W side E side (powerlines)	Many existing trees, occasional spaces
Gray St (Doney St to Hansard St)	Colour, continuity, diversity	<i>Brachychiton acerifolia</i> <i>Eucalyptus</i> spp e.g. <i>E. forrestiana</i> , <i>E. erythronema</i> , <i>E. olivacea</i>	W Side, 2 per road frontage E Side, 4 per road frontage	Difficult area, soil type limitations Spacing dependent on species
Gray St (Hansard St to High School)	Shade, colour, statement, screening	<i>Jacaranda mimosifolia</i> <i>Lophostemon confertus</i> <i>Eucalyptus sideroxylon</i>	W Side Centre	Some existing Lophostemon to be retained Bus stop area

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3. Location: Minor Roads	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
		(Red Ironbark) <i>Eucalyptus argypphea</i> (Silver mallet) <i>Callistemon</i> sp.	E Side (powerline)	Tub plantings on verge May need sturdy tree guards
Burns St (Kipling St to Doney St)	Colour, Uniformity	<i>Prunus nigra</i> <i>Fraxinus pennsylvanica</i> Urbanite <i>Jacaranda mimosifolia</i>	W Side 4 per house frontage E Side	Open area. Few interruptions Some sections have existing Jacarandas
Moore St (Kipling St to Doney St)	Colour, uniformity, shade	<i>Lophostemon confertus</i> <i>Fraxinus griffithii</i>	W Side E Side	Continuations of existing planting, some new planting
Homer St Havelock st to Gray St	Shade, uniformity	<i>Lophostemon confertus</i> <i>Callistemon viminalis</i> Mixed <i>Eucalyptus</i> spp	N Side (powerline) 3 per house frontage S Side 3/1	See comment in point 6 Infill of existing plantings Some planting possible outside school Very limited planting alongside District Education Office
Furnival St Federal St - Narrakine Rd	Colour, form	<i>Callistemon viminalis</i> <i>Eucalyptus sideroxydon / nicholli</i>	N Side, 2 -3 per house frontage S Side, 1 per house frontage	Note: no planting alongside the Lewis St bush block. Match in with existing planting

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4. Location: Main Parks	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Memorial Park	Ambience, restful, shade, historic / commemorative	E.g. <i>Cedrus lebanii</i> <i>Pinus halopensis</i> <i>Acacia</i> sp. <i>Rosemary officialis</i> <i>Papaver rhoeas</i> (Flanders Poppies)	As appropriate	Choice of trees that have historical significance e.g. pine from lone pine hill, Acacia as Australia's floristic emblem. Site comprises three sections which for detailed plans are required — need to engage with the RSL Screening structures for water tank required also shadow figure from Gnarojin Park bridge. Consider grant monies / artist in residence
Mackie Park	Functional	Limited scope for additional species. Roses in garden beds	Need to keep open spaces	Replanting of roses with same species. Repairs needed to rotunda. Artwork on walls facing park. Possible relocation / removal of rotunda.
Gnarojin Park	Various	See original plan	As appropriate	Pruning and other mtc required, repairs to Newton House, some redesign of planting layouts possible
Lions Park	Ambience, restful, shade, family use	Multiples of existing species	As appropriate	Consider removal of selected <i>Eucalyptus cladocalyx</i>

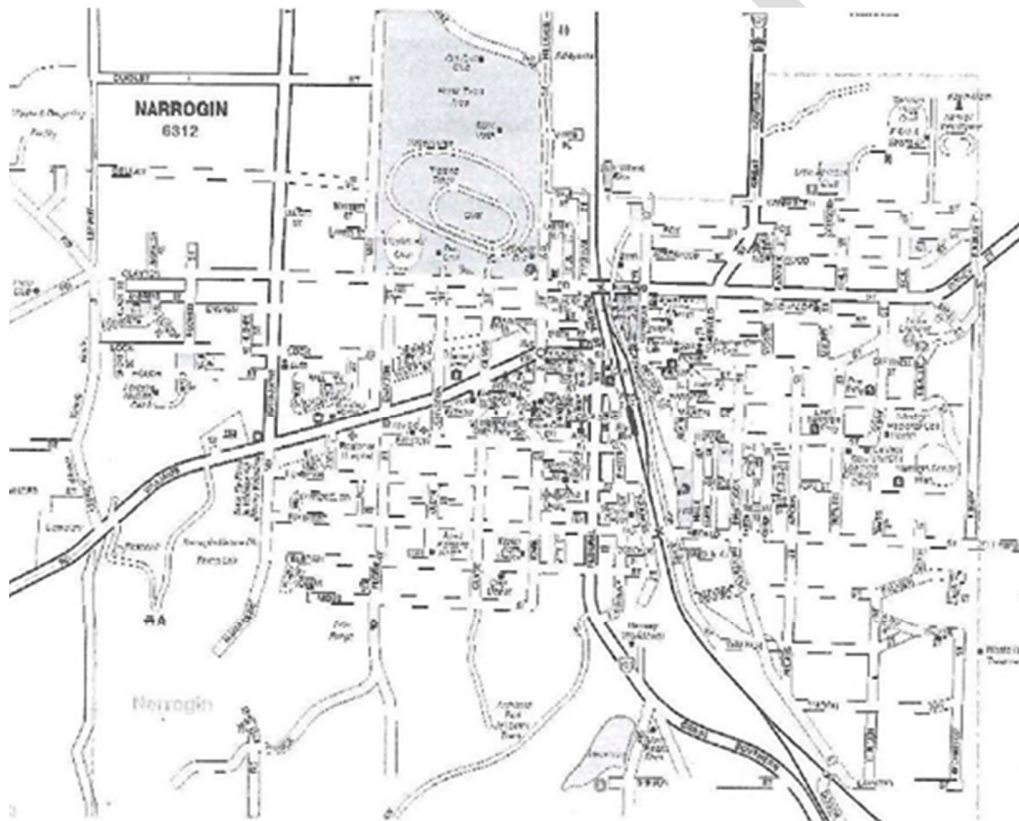
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5. Location: Car Parks and Grounds	Design Aims ¹²³	Species recommendations	Layout /spacing recommendations	Comments on site
Railway Carpark	Functional	<i>Eucalyptus maculata</i> Spotted gum	Two trees evenly spaced between street lights, with one only on the northern end of the row	Need species that will survive in bitumen, give tall shade and not interfere with street lighting
Council Carpark (Council Offices / Library)	Shade, function, colour	<i>Eucalyptus erythronema</i> , <i>E. eremophila</i> , <i>E. newbeyana</i>	Where appropriate in nibs	Existing trees and some surrounding trees to be removed e.g. <i>Pinus radiata</i> , <i>Eucalyptus cladocalyx</i> .
Council Carpark (CWA)	Shade, uniformity	See original plan <i>Eucalyptus steedmanii</i> , <i>E. newbeyana</i>	Approx 15 m spacing	Some existing trees to be removed e.g. <i>Brachychiton sp. 2 E. torquata</i> could be retained
Leisure Centre	Colour, visual impact, shade, form	<i>Zelkova serrata</i> (Green Vase)	4 trees, approx 10m spacing	Some existing trees need to be removed
Museum / Old Courthouse and carpark	Shade, aesthetics	<i>Liquidambar styraciflua</i> <i>Prunus nigra</i> <i>Eucalyptus leucoxydon</i> subsp. <i>leucoxydon</i>	Spacing to match existing trees	Remove old Melaleucas (and fence) on E side of parking area Expand garden beds, plant trees SE corner from building; need new pots, etc Needs detailed plan developed Consider redevelopment of south side carpark; e.g. development of island and angle parking layout.
Cemetery	Shade, function	Mixed white trunked Eucalypts, E.g. <i>E. camaldulensis</i> , <i>E. leucoxydon</i> , <i>E. scoparia</i>	On existing spacing	W side of road to be developed for parking

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Recommended list of suburban streets with historic planting to be maintained in spite of high maintenance

6. Location	Species	Comments
Homer St (Havelock to Argus)	<i>Lophostemon confertus</i>	Maintain trees on both sides of the road in this section
Kipling St (near Hillman St)	<i>Plantanus acerifolius</i>	Trees on Nth side, under powerlines – could be retained in the short term, but with gradual removal



Eucalyptus erythronema Red flowered mallee [Image © John Colwill 2010]

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The following guide contains the recommendations by H+H Architects for the Narrogin CBD and forms part of the 2016 Townscape Study Review.

1. Location: CBD	Design Aims ¹²³	Species recommendations	Layout / spacing recommendations	Comments on site
East West Streets				
Park St (Earl St – Willaim Kennedy St)	Shelter, colour, screening	<i>Eucalyptus newbeyi</i> <i>Eucalyptus tenera</i> <i>Eucalyptus torquata</i>	Nth Side Sth Side (Power Lines)	Shallow soils require change of species. 8 – 10m depending on space
Park St (Kennedy St - Federal St)	Colour, consist	<i>Jacaranda mimosifolia</i>	Maintain existing spacing, some additional plants in Govt Office	This species suited only to lower slope and will need irrigation in summer (note: pruning schedule necessary for best visual results.)
Park St (Federal St – Fairway St)	Planned, structured, historic link	<i>Jacaranda mimosifolia</i> <i>Eucalyptus torquata</i>	Nth Side may require planting in the roadway Sth Side (Power Lines)	Links to railway goods shed and RI. Both sides of street (may be limited near Chicken Treat) Small picnic site near Chicken Treat to be developed at same time
Fortune St (Williams Rd to Earl St)	Shelter, screening, colour	<i>Ulmus parviflora – Todd</i> <i>or Green English</i> <i>Prunus cerasifera nigra</i>	Nth Side Sth Side (Power lines)	Continue planting up to Park (see suggestions for Memorial Park) Some older trees under powerlines may need to be replaced with Prunus

1. The underlying themes in all areas is that of suitability to site, which includes soils, moisture quality and availability, growing space, etc
2. Impact and aesthetic appeal can be achieved through many plant characteristics and / or layout and density
3. Historic category difficult to quantify – many historic trees no longer deemed suitable

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1. Location: CBD	Design Aims ¹²³	Species recommendation	Layout / spacing recommendations	Comments on site
Fortune St. (Earl St.to Federal St)	Shelter, form, manageability, uniformity	<i>Ulmus parviflora</i> – Todd or Green English <i>Pyrus</i> sp. for locations with less space	<i>Ulmus</i> currently planted in median 'containers'.	<i>Lephostemon</i> trees in footpath could be removed incrementally if necessary, and replaced with <i>Pyrus</i> or <i>Ulmus</i> sp. <i>Tipuana Tipu</i> at Fortune/Earl and Fortune/Federal intersections to remain
Fortune St (Federal to Fairway)	Shelter, form, manageability, uniformity	Continue above planting style. Retain <i>Tipuana Tipu</i>		Easternmost <i>Lephostemon</i> showing branch die back Review and remove and replace with new tree species if failing
Mackie Park	Civic space, frame views to Town Hall, summer shade and winter sun	See Federal and Fortune, and Mackie Park Enhancement concept		Existing trees in the park include 2 x <i>Platanus</i> (Plane trees) 1 x <i>Liquidambar</i> <i>styraciflua</i> (Liquidamber) and 1 x <i>Fraxinus</i> likely to be 'Raywood' (Ash). Verge trees adjacent to the park include <i>Lephostemon</i> and <i>Tipuana tipu</i>

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1. Location: CBD	Design Aims ¹²³	Species recommendation	Layout / spacing recommendations	Comments on site
Harris St	Pedestrian shade, screening, colour	Match existing species where these are thriving	Plant to maintain rear loading / crossover access	
Williams Road (Glyde St to Earl St)	Form, visual impact	<i>Jacaranda mimosifolia</i> <i>Prunus nigra</i>	Closer spacings to compensate for crossovers etc. Northern side, powerlines	Jacaranda will require supplementary watering, better achieved adjacent to the park. Some existing trees to be removed Prunus for under power lines
Egerton St (Earl St – Federal St)	Form, view (tallertrees to match building height) Gateway planting contrast	<i>Pyrus calleryana</i> /Bradford. – spreading Crown <i>Callistemon viminalis</i> to entry nibs adjacent to Earl and Federal Sts.	- alongside existing Shops – shops to roundabout Variable spacing according to available sites	See Townscape Review detail drawing Remove palms from near Bintamilling Arcade
Smith St	Pedestrian comfort and screen rear yards	<i>Prunus cerasifera nigra</i>	Aim for dense shade to link pedestrian access from carpark to arcades	New kerbed garden beds to provide better growing conditions – ensure road base is removed

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1. Location: CBD	Design Aims ¹²³	Species recommendation	Layout / spacing recommendations	Comments on site
Ensign St	Shelter, screening, colour	<i>Calistemon viminalis</i> south side <i>Eucalyptus nicholii</i> Or <i>Agonis flexuosa</i> north side	Power Lines to south side. Plant 5m centres to offset gaps for crossovers	Aim to screen blank wall, unless a significant mural project is funded Assess soil type and condition for suitability of <i>A. flexuosa</i> – <i>E. nicholii</i> may be the better option
Gregory St	Shelter, greening, colour	<i>Eucalyptus sideroxylon</i> <i>rosea</i> or <i>E. tricarpa</i>	Plant down one kerbline, ideally the northern edge. Plant 8m centres to offset gaps for crossovers	Trees will need to be planted in the roadway. Allow for protective bollards / wheel stops and to remove all road base for the tree pit
Clayton Rd (Earl to Federal Sts)	Shade, 'gateway' planting, colour	<i>Eucalyptus leucoxylon</i> <i>subsp. leucoxylon</i> <i>Eucky Dwarf</i> (cultivar of <i>leucoxylon</i>) under power lines <i>Eucalyptus torquata</i> at nib adjacent to Bargain Barn and paired at car yard	Nth Side of road (power lines west of Eston St) Sth Side of road, trees at closer spacings Construct generous tree pits / nibs for <i>E.</i> <i>torquata</i>	Broken landscape, powerlines Need to link planting to Earl St Few good trees remaining
Clayton Rd (Federal to Railway crossing)	Shade, 'gateway' planting, colour, screening	<i>Eucalyptus torquata</i> in verge	Planted as two "groves" for maximum impact	Signage review in future may recommend a Town Centre direction sign - allow viewlines to sign in tree set out

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1. Location: CBD	Design Aims ¹²³	Species recommendation	Layout / spacing recommendations	Comments on site
North South Streets				
Earl St (Council Offices to Fortune St)	Form, uniformity, colour	<i>Prunus nigra</i> and <i>Liquidambar</i>	W Side	Liquidambar is only for the lawn area adjacent to the Freemason's Lodge. Negotiate with landowner to allow a stately shade tree to be planted in this location
(Fortune St to Egerton St)	Form, uniformity, colour		In nibs. Most line up, some offset, but still in straight lines	Discuss landscaping options with Narrogin Police on their grass verge to link in with streetscape work
(Egerton St to Smith St)	Form, uniformity, colour	<i>Pyrus calleryana</i> : Bursnozam "Burgundy Snow" or <i>Betulaeufolia</i>	Power lines Egerton to Clayton West side	Retain existing trees alongside Coles' wall

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1. Location: CBD	Design Aims ¹²³	Species recommendation	Layout / spacing recommendations	Comments on site
(Smith St to Ensign St)	Form, uniformity, colour	<i>Pyrus calleryana</i> : Bursnozam "Burgundy Snow" or <i>Betulaefio</i>		
(Ensign St. to Clayton Rd)	Form, uniformity, colour			Replant fall ailed / vandalised trees Clayton Rd to Shire office. Retain <i>Tipuana Tipu</i> at Fortune St entry)
Rowley St	Pedestrian shade	<i>Pyrus calleryana</i> Bursnozam "Burgundy Snow"	Aim to provide a shaded pedestrian link between Egerton and Fortune Sts	Some negotiation will be needed with land owners Trees may need to be planted in the roadway Allow for protective bollards / wheel stops and to remove all road base for the tree pit
Federal St. (Clayton Rd to Smith St)	Uniformity, colour, form	<i>Callistemon viminalis</i>	New planting in nibs	Retain healthy <i>Ulmus glabra</i> (Golden Elm) Remove <i>Hymenosporum</i> . Retain <i>Ficus sp.</i>
Federal St. (Smith St. to Fortune St)	Colour, shelter at nibs	<i>Calistemon viminalis</i>	In nibs and proposed islands	Retain <i>Tipuana Tipu</i> south east corner Federal and Egerton Sts

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1. Location: CBD	Design Aims ¹²³	Species recommendation	Layout / spacing recommendations	Comments on site
Federal St (Fortune St to Park St.)	Form, stature (see also Fortune St notes)	Maintain existing species	Maintain existing species and spacing	Develop a more sympathetic pruning regime for <i>Lophostemons</i> .
Federal St. (Park St to Falcon St)	Form, stature	Maintain existing species	Maintain existing species and spacing	Develop a more sympathetic pruning regime for <i>Lophostemons</i> .
Fairway Street (Fortune to Park Sts.)	Shelter, uniformity	Maintain existing trees. Where new planting is possible use; <i>Eucalyptus scoparia</i>	Various to accommodate cross overs, power lines and walkway	Existing trees on this street are <i>Lephostemon</i> .
Railway Carpark (EgertonSt - Park St)	Shade, structure, frame town edge	<i>Continue existing species: Eucalyptus maculata</i> Spotted gum	Two trees evenly spaced between street lights, with one only on the northern end of the row Look at opportunities to plant a matching avenue on the west side of the road	Need species that will survive in bitumen, give tall shade and not interfere with street lighting

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The following tree species recommendations for the Highbury townsite are taken from the 2017 Highbury Townscape Plan which was prepared by H+H Architects and adopted by Council on 28 March 2018 and are considered suitable for local conditions and in keeping with the 2016 Narrogin Townscape Study Review streetscape recommendations.

1. Location:	Species recommendation	Comments on site
Burley St	<i>Eucalyptus newbeyi</i> <i>Eucalyptus tenera</i> <i>Eucalyptus torquata</i> <i>Callistemon viminalis</i> Eucky Dwarf (cultivar of <i>leucoxylon</i>)	South Verge (under power lines)
North Verge (adjacent to footpath)	<i>Eucalyptus leucoxylon</i> subsp. <i>Leucoxylon</i> <i>Eucalyptus nicholii</i> <i>Eucalyptus sideroxylon rosea</i> or <i>E. tricarpa</i> <i>Eucalyptus scoparia</i>	


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The recommendations below were documented on 31 July 2018 by Mr P White and Cr Clive Bartron of the Narrogin District Townscape Committee.

Site	Discussion points	Suggestions
West side of Clayton rd. oval, May St entrance	Over the years, many trees have been lost from around the oval, but there is an opportunity to plant some either side of the May St. gates	Species such as <i>Eucalyptus tricarpa</i> or <i>Corymbia maculata</i>
Clayton Rd from Narrakine to Federal St	Over the years, there have been many trees removed from this street and it looks forlorn for a major thoroughfare.	Revisit the 2010 plan which had suggestions for tree planting
Recreation Centre parking area Narrogin Library	This is a major expanse of concrete and bitumen, roastingly hot in summer and bleak in winter. Whilst it would be good to keep some of the existing trees, there are a number of factors weighing against them e.g., the species are renowned for their stature, there is likely to be considerable leaf / fruit drop, all three trees show signs of previous pruning damage / stem rot or mechanical weakness, their proximity to buildings or other infrastructure.	Consider planting deciduous tree, in conjunction with porous pavement, every third or fourth parking bay Remove the three trees and replace with the correct species in the proper location Do not damage the <i>Arbutus unedo</i>


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Site	Discussion points	Suggestions
<p>Council Office parking area – east side of buildings</p>	<p>This was a missed opportunity to demonstrate good streetscape practise. It should still be possible to retro fit the area with trees and porous concrete.</p>	<p>An example from UWA that should be implemented</p> 
<p>Chicken Treat grounds</p>	<p>There is a small patch of ground to the east of the Chicken Treat parking area and Fairway St. (opposite the visitors centre). Whilst it is not council land, previously there have been discussions about some joint development of the site that would be of benefit visitors as well as patrons.</p>	<p>Explore the notion of a memorandum of understanding with Chicken Treat and install shade and picnic tables</p>
<p>Fairway St. Pines</p>	<p>The once proud line of <i>Pinus radiata</i> var. <i>binata</i> has been reduced to one heritage listed tree – which is in poor condition. The trees were an important part of the landscape and early history and are likely to be lost completely. However it is possible to collect and propagate seed from the remaining tree and the original row replanted. The wood from the remaining tree could be salvaged and turned into furniture for public venues, thus perpetuating the history and memory of the plantings.</p>	<p>Collect seed and commence propagation work</p>

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Site	Discussion points	Suggestions
Federal St	There are a number of sites along Federal Street between Egerton and Clayton Rd. where additional trees could be planted.	Suggest continuing the <i>Ulmus glabra</i> which can be seen outside the Duke bottleshop
Federal St	The section of Federal St between Fortune and Egerton Streets was briefly discussed for tree planting options. However even if nibs were developed alongside the footpath, the presence of shop verandahs would preclude successful tree establishment	The vista could be improved by painting the verandah / awning front and sides
Railway parking area	This was an example of a successful planting with a species that is the correct stature for the landscape position, planted at the correct distance apart	
Southern roundabout	Seedlings now planted and site mulched	Follow on from this matter as an exercise in planning for good plant establishment, plan the event well in advance, order the plants in plenty of time for the nursery to source the correct size root stock, plant at the optimal time of the year
Northern roundabout	The question was raised if the site was suitable for trees to be planted in the centre of the roundabout. There would be few issues such as line of sight to deal with, but the potential salinity / winter waterlogging of the site would need to be investigated.	Discuss planting conditions and options with the MRWA. <i>Casuarina obesa</i> , <i>Melaleuca strobophylla</i> and <i>M. halmaturorum</i> may be suitable options
Old nursery site	Since the old nursery has been removed, it has left a large expanse of nothingness at one of the main entrances to town. It is uncertain who owns the property or what the intention is for its development. However it is at the entrance to town and represents an opportunity to enhance the look of this part of town. It could be a site for tree planting or public art (or both)	Investigate site ownership and possibilities for site development

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Site	Discussion points	Suggestions
Town entrance / artwork panels, Makit Hardware	The Makit Hardware fence dominates the streetscape at that end of town and makes for an unattractive entrance to the town. Understandably the proprietors may not want art work painted onto their fence. However artwork could be applied to large panels that could be attached to the wall and removed when necessary without damage to the wall or cost to the proprietors	Discuss options with Makit Hardware, table as agenda item for Narrogin District Townscape Committee, discuss as part of a Public Art strategy
Kipling street	There are many gaps in the plantings from the outskirts of town to the roundabout	Revisit 2010 suggestions, carry out inventory of surviving trees and devise replacement plan for one or both sides of the road
Coles carparks x 2	As with the Council carpark, both of these sites lack adequate shade and attempts should be made to increase vegetative cover in the parking area rather than just around the edge	 <p>Trial a planting based on this City of Fremantle example</p>

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5. TOWNSCAPE STATUS REPORT UPDATE

5.1 Townscape Status Report update

Attachment

- Townscape Status Report

Following the update of the revised Townscape Status Report by Ms Bell, there was some discussion in relation to the 2016 Townscape Study Review and the Townscape Status Report, and the importance of identifying and prioritising projects.

The Committee agreed that the focus of the next Narrogin District Townscape Committee meeting would be;

- to identify and prioritise projects that align with the recommendations and the core values contained within the 2016 Townscape Study Review.

6. NEW BUSINESS OF AN URGENT NATURE APPROVED BY THE MEMBER PRESIDING OR BY DECISION OF THE MEETING

Nil

7. NEXT MEETING / CLOSE OF MEETING

The Presiding Member closed the Meeting at 7.20 pm.

The next Meeting of the Narrogin District Townscape Committee will be held at 5:30 pm on Thursday 27 September 2018.

Narrogin District Townscape Committee Status Update Report for July 2018

	Core Values	Outcomes	Status	Estimated Start Date	Estimated Completion Date	Responsible officer	Budget	Comments	% Complete
1	2016 Townscape Study Review	Recommendations							
2	Central Precinct								
3	Create a central precinct incorporating the area bounded by Egerton, Federal, Fortune and Earl Streets	Creation of a Central Precinct bounded by Egerton, Federal, Fortune and Earl Streets will emphasise the importance of this core area of the town centre. This precinct has the most intact streetscapes and contains the majority of the recognised heritage buildings within the CBD. Townscapes improvements and revitalisation efforts should be concentrated in this precinct before they are spread further afield into the rest of the town centre. To succeed as a precinct, planning policies and guidelines should be put in place to protect the area and provide incentives for its improvement and revitalisation.							
4	Protect the important buildings and streetscapes of this precinct	Ensuring that the significant composition of the three major buildings in Federal Street are retained; Town Hall Hordern Hotel Mardoc Building Encourage reinstatement of verandahs to significant buildings in Federal Street Encourage building owners to paint and restore facades Reinstate Hordern Hotel verandahs facing Mackie Park							
5	Improve pedestrian links through the precinct	Ensuring that the significant composition of the three major buildings in Federal Street are retained; Town Hall Hordern Hotel Mardoc Building Encourage reinstatement of verandahs to significant buildings in Federal Street Encourage building owners to paint and restore facades Reinstate Hordern Hotel verandahs facing Mackie Park							
6		Smith Street It is proposed to enhance the central section of Smith Street where the majority of pedestrians cross the supermarket car park towards Egerton Street. This should include: Introduce traffic calming measures consisting of landscaping and new paved surfaces around key pedestrian crossing points. Plant new street trees							
7		Fortune Street Further works should include the provision of additional trees, streetscape features and a paved pedestrian link adjacent to the Post Office.							
8		Egerton Street (recommended priority) A similar upgrade to that undertaken on Fortune Street is considered appropriate with improved parking, pedestrian access, street trees and street furniture. Further detailed investigations will be required to finalise positions of parking, pedestrian links, street trees, park benches, bins and street lighting would significantly revitalise the street and enhance the aesthetics of the streetscape.							
9	Build on the existing leafy character within the town	Increase tree planting using recommended species To provide shade and shelter To help define and articulate space To screen unsightly elements							
10	Developing a Civic and Cultural heart								
11	Build and enhance existing civic amenities	Benches In the CBD area we recommend that the Shire of Narrogin continue to use existing Furphy benches. The timber batten version should be used in areas where there is no shade, as metal straps can become very hot in full summer sun.							
12		Bollards In the central precinct the Heritage style bollards should continue to be used on feature corners. In the wider CBD area the simple pipe and cap style bollard is suitable for traffic management and low-key areas.							
13		CBD Pedestrian crossings The existing solar bollard should continue to be used at key pedestrian crossing points							
14		Street Lights Generally the standard MRWA traffic light can continue to be used in the CBD, although the Shire may like to consider painting the lower 2m – 3m of the poles in townscape colours.							
15		Feature Lights The 'heritage Style' feature lights pictures should continue to be used on key intersections at pedestrian crossings where the solar bollards are not being used.							

Core Values	Outcomes	Status	Estimated Start Date	Estimated Completion Date	Responsible officer	Budget	Comments	Attachment 1	% Complete
16	Rubbish Bins Many Shires are moving away from small post-top bins to reduce 'clutter' on the street and suit automated bin emptying systems. Narrogin may consider doing the same. The plastic 'wheelie' bins are somewhat unsightly however, so in high profile areas such as the CBD - and especially the Core Zone - bins should be housed in surrounds.								
17	Bike Rails Simple 'u' rails are recommended, these should be either stainless steel or galvanised steel and left unpainted (to reduce maintenance requirements)								
18	Tree Furniture Tree pits with grates and root directors are recommended for all tree planting in paved areas - aim for the largest size possible to give the tree roots space to grow, and protect from compaction with tree grates. Tree guards may be necessary in areas when vehicles are damaging trees or vandalism is an issue. Options for protecting trees planted between parking bays include tall plain bollards and wheel stops. Wheel stops need to be set well back to allow for car front and back overhang, but may be a better solution than bollards - which can require regular straightening from being bumped. Wheel stops are available in concrete (Agcrete) and recycled plastic (Replas)								
19	Create a central civic space in the CBD	Mackie Park and town square development (recommended priority) Upgrade Egerton and Federal Street intersection Create civic heart at intersection of Federal and Fortune Streets. Remove town clock							
20	Increase links between eastern parkland and town centre	Reinforce pedestrian link across railway line at the end of Edgerton Street							
21	Develop opportunities for cultural and community buildings and facilities								
22	Improve visitor experience								
23	Develop the Rail Heritage theme through the town centre with historic interpretation and street furniture								
24	Relocate the visitors centre to within the newly created civic and cultural heart.								
25	Provide access and parking suitable for large vehicles within close proximity to visitor centre	Clarify entry point and special parking locations for visitors (particularly those with over-sized vehicles and caravans, and for people with disabilities), and Identify opportunities for special 'gateway' signage to the CBD.							
26	Greening the CBD								
27	Build on the existing leafy character within the town	Increase tree planting using recommended species							
28	Improve pedestrian amenities including shade and shelter								
29	Reduce the 'heat island' effect in the summer months								
30	Improve amenities for motorists including parking under shade								
31	Walkability								
32	Develop a consistent palette of materials and quality within the town centre	The introduction of consistent paving and street furniture throughout the CBD would assist in enhancing the streetscapes, making the civic spaces more accessible for the local community and encourage visitors to the town. With the underlying theme of Rail Heritage throughout the town, these ideas could be incorporated into the materials and designs for benches and bollards, light fittings etc. There may also be opportunities to fund special street furniture pieces which are bespoke furniture art.							
33	Increased shaded pathways	Ensuring paths are linked to key areas Ensuring pathways are accessible for the whole community							
34	Develop a signage scheme throughout the town	Public direction and information signage includes street signs, way finding signs (i.e. Hospital), interpretation, event signage and street maps. A consistent comment received during this review process, was that direction signage to and within the town centre needs improvement. The Shire is reaching the conclusion of the link road/bypass project, and this is a good point to undertake an audit of existing signage							
35	Parking								

Core Values	Outcomes	Status	Estimated Start Date	Estimated Completion Date	Responsible officer	Budget	Comments	Attachment 1	% Complete
36	Undertake an audit to assess availability and location of current parking								
37	Develop a signage scheme to identify parking areas including amenities for long vehicles								
38	Examine opportunities for more and better located parking								
39	Increase accessibility with a 'family friendly' outcome								
40	Consolidation of the CBD								
41	Support the existing businesses and residents								
42	Enhance built form and streetscape fabrics and residents	Streetscape Improvement remains as a key aspect for enhancing the town, along with improving some of the existing facades. This is proposed to be via the improvement of pathways, introduction of street furniture, greening throughout the CBD and improving and revitalising some of the old building facades.							
43	Create a shared vision with the business community	Creation of a Central Precinct bounded by Egerton, Federal, Fortune and Earl Streets will emphasise the importance of this core area of the town centre. This precinct has the most intact streetscapes and contains the majority of the recognised heritage buildings within the CBD. Townscapes improvements and revitalisation efforts should be concentrated in this precinct before they are spread further afield into the rest of the town centre. To succeed as a precinct, planning policies and guidelines should be put in place to protect the area and provide incentives for its improvement and revitalisation.							
44	Reduce the number of vacant buildings	New Development within existing buildings will greatly improve and enhance the townscape. Revitalisation of existing empty buildings is recommended.							
45	Develop a consistent colour palette for buildings	An adopted Narrogin Townscape Colour Palette could be used in tandem with signage control, so that in time the street facades in the CBD form a cohesive and attractive environment. A palette which is developed specifically for Narrogin would help create a unique and memorable streetscape, and if it includes plenty of harmonising options for colour use, should be attractive to businesses to implement.							
46									
47									
48									
49	Townscape Committee Status Update report								
50	Central Precinct								
51	Create a central precinct incorporating the area bounded by Egerton, Federal, Fortune and Earl Streets								
52	Protect the important buildings and streetscapes of this precinct								
53	Improve pedestrian links through the precinct								
54	Build on the leafy green character of the CBD								
55	Developing a civic and cultural heart								
56	Build and enhance existing civic amenities								
57	Gnarojin Park Master Plan	Seek quotes from suitably qualified agencies to develop a master plan for the future development and management of the Gnarojin creek area	In Progress				MCLC	29.3.2018 - Enlocus have been appointed to prepare a Master Plan and will undertake community consultation. The draft Plan will be presented to Council on 11 April 2018. 17.5.2018 - A site-wide draft masterplan will be developed in the next stage of the project for Shire comment before a second round of community consultations expected to take place in late July. 28.6.2018 - Enlocus will present a draft at the Monthly Briefing Session to be held on Wednesday 8 August.	

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58	2019 Proposed Library landscape Design		In Progress			EMCCS		17.5.2018 - Additional comments by the Committee include - Disability access is inadequate. Disagree with the sensory garden. Trees and lawns to be included. Texture and rockworks should be visible. Not limestone		
59	Create a central civic space in the CBD									
60	Increase links between eastern parkland and town centre									
61	Develop opportunities for cultural and community buildings									
62	Improve visitor experience									
63	Develop Rail heritage theme through the town centre with historic interpretation and street furniture									
64	Williams Road information bay	Seek quotes and supporting information for the existing structure to be replaced or refurbished and the area around it tidied up	Not Started	08/20/18	08/24/18	MO	\$10,000	16.5.2018 - The Manager Operations advised the work will be scheduled to take place towards the end of June 2018		
65	Heritage Trail	Develop a series of heritage plaques detailing the history of Narrogin's heritage buildings	In Progress					17.5.2018 - The MCLC has consulted with a heritage consultant to develop the interpretative signage for ten cast bronze heritage plaques for installation in CBD paving. In March 2018 Notre Dame and Curtin University Medical Students participated in a project identifying CBD heritage buildings they judged (as would be tourists) which required interpretative plaques. 29.6.2018 - The information for the plaques is being proofed ready to send to the plaque makers. Ten plaques will be made this financial year and ten more next financial year.		
66	Relocate the visitors centre to within the newly created civic and cultural heart									
67	Provide access and parking suitable for large vehicles within close proximity to visitor centre									
68	Greening the CBD									
69	Build on the existing leafy character within the town							29.3.2018 Street Tree Policy was recommended to Council for endorsement by Townscape Committee		
70	Improve pedestrian amenities including shade and shelter									
71	McKenzie Park	Seek quotes for suitable shade shelter	In Progress	08/30/18	11/30/18	ASO	\$7,000	25.5.2017 The Committee recommended seeking quotes from local contractors to construct the approved designs to the requested specs.		
72		Research the history of the park for inclusion on a plaque or other approved installation	Not Started					29.3.2018 - The research part of this project has not progressed. A request for funds to cover the cost of the shade shelter will be made in the 2018/2019 draft budget.		
73	Reduce the "heat island" effect in the summer months									
74	Improve amenities for motorists including parking under shade									
75	Walkability									
76	Develop a consistent palette of materials and quality within the town centre									
77	Increased shaded pathways									
78	Ensuring pathways are linked to key areas									
79	Ensuring pathways are accessible for the whole community									
80	Develop a signage scheme throughout the town									
81	Parking									
82	Undertake an audit to assess availability and location of current parking									
83	Develop a signage scheme to identify parking areas including amenities for long vehicles									
84	Examine opportunities for more and better located parking									

	Core Values	Outcomes	Status	Estimated Start Date	Estimated Completion Date	Responsible officer	Budget	Comments	Attachment 1	% Complete
85	Increase accessibility with a 'family friendly' outcome									
86	Consolidation of the CBD									
87	Support the existing businesses and residents									
88	Enhance built form and streetscape fabric									
89	Public Art Strategy	Seek quotes from suitably qualified agencies to develop a public art policy	In Progress	08/27/15	09/28/18	MCLC	\$15,000	27.8.2015 - MCLC gave a brief overview of a Parks and Leisure Australia seminar she attended with the ASO on 20 August 2015. 8.10.2015 - No update 3.12.2015 - MCLC reported that contact had been made with Artsource Consulting. 17.5.2018 - Artsource was engaged to develop the Shire's Public Art Strategy. 28.6.2018 - Artsource will present a draft Public Art Policy at the next Monthly Briefing Session scheduled to take place on Wednesday 11 July 2018.		
90	Urban Art - Skatepark	Seek quotes from suitable agencies to undertake community consultation to develop artwork for a community art project at the recently extended skatepark	In Progress		08/31/18	MCLC		17.5.2018 - Chris Nixon the street artist contracted to install the skate park mural, visited the site during a Youth Week skate and BMX competition on 17 April 2018. A design concept will be delivered to the Shire in early May 2018. 28.6.2018 - The project has been rescheduled due to the recent bad weather. A completion date is not confirmed.		
91	Create a shared vision with the business community									
92	Reduce the number of vacant buildings									
93	Develop a consistent colour palette for buildings	Seek quotes from suitably qualified groups to develop a colour palette					\$7,000	An allocation has been made in the 2018/2019 budget		