



RESIDENTIAL DESIGN GUIDELINES, PETERBOROUGH, VICTORIA

Prepared by MGS Architects for Moyne Shire Council



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1. INTRODUCTION

The Urban Design Guidelines (UDG) for Peterborough have been developed for the Moyne Shire Council. The Guidelines draw on the recommendations and limits of the UDF and the Planning Panel report which reviewed this, prior to its adoption by council in 2003. They further respond to the direction given in *Design of Structures on the Victorian Coast.* A vision for the town is outlined in the UDF and the key vision is stated below:

'Peterborough will maintain and enhance its role as a peaceful small coastal village on the Great Ocean Road set within the dramatic scenery of the renown Port Campbell National Park, Bay of Islands Coastal Park and lesser known Curdies estuary. The growth of the township and scale of development, including commercial development, will be limited to ensure the character, serenity and functioning of the township is protected for the enjoyment of permanent and semi-permanent residents and visitors.'

A number of key characteristics and issues have been identified which give greater detail to this vision. These are outlined and the following guidelines developed to direct the subdivision and built-form of residential areas of the town. This document applies to land within the Residential 1 Zone, as specified by the Moyne Shire Council. Subsequently the Guidelines have also taken into account the preference of DSE that the special and open character of Peterborough be maintained through mechanisms other than minimum lot size.

The diagram below (fig 1.1) explains the structure of the document. A number of overarching guidelines direct town character, interfaces and setbacks. The town is further divided into two 'Neighbourhood Character Zones' to control density and size of built form, responding to the area location within the town and its relationship with the landscape. Every development application should respond to these overarching town guides as well as to the appropriate Neighbourhood Character Zone. Development should also be guided by its role as either 'infill' of existing residential areas or subdivision of 'greenfield sites'- areas defined in the UDF. Further guidelines apply to sites that occupy specific locations within the town, and should be applied to designs where appropriate.



fig 1.1, Structure of Residential Design Guidelines





2. OVERARCHING GUIDELINES

The following guidelines apply to all new residential construction within Peterborough.

Street Interface and Siting

Objectives:

- To encourage open and informal streetscapes which reflect the coastal character of the town.
- To encourage open front yards with houses informally addressing streets.
- To prevent dense streetscapes, with a suburban feel and features including concrete kerbs, channels and garages.
- To develop habitable outdoor areas with good solar access and weather protection, by controlling the size and siting of built form.
- To encourage the use of indigenous plants and landscape while minimizing other barriers and fencing.
- To maintain the spaces and views between built form in residential streets.

Strategies:

| Stree | Street Interface | | | | | |
|-------|-----------------------------|---|--|--|--|--|
| × | Road Reserve | Grassed fringes should continue to the road surface without kerbs or crossovers. | | | | |
| • | Fences | Fences should not be erected in front of buildings where they would break the open streetscape. Where possible, organisation of buildings and landscape rather than fences should form the basis of a response to prevailing weather conditions. Fences can only be built behind the front line of dwellings, in circumstances where extreme weather conditions or significant privacy issues warrant a barrier. Fences to public walkways, linkages and habitat corridors are also discouraged. | | | | |
| | | Where fences are required, they should be permeable, designed with a minimum of 50% openings. To further establish a visual barrier or weather break, fencing should be accompanied by indigenous planting. | | | | |
| • | Driveways and Crossovers | Driveways should be informal and unpaved. Acceptable treatments may include grass, loose stone or crushed rock. Paved or concrete crossovers are not permitted within Old Peterborough or Little Peterborough areas except in Macs Street and other commercial/high traffic areas of the town. | | | | |
| | | In the "new" area of Peterborough subdivisions and development can be constructed with paved or concrete crossovers, rollover kerb, and footpaths. | | | | |
| - | Carports and Garages | Any covered carport or garage should be located beside, behind or integrated into the ground floor of a dwelling. No significant proportion may be constructed in front of the main built form of a dwelling. | | | | |





| Siting | New dwellings should be detached, without shared party walls to adjoining dwellings. Side setbacks are outlined in the relevant NCZ, directing spacing between dwellings. |
|--|--|
| Building Address | Building should be sited to address all streets and all public open space they abut. Transitional terrace, verandah and balcony zones to these public abutments are encouraged. Blank, unbroken walls are discouraged. |
| Weather Protection | Developments should use landscaping or built form decisions to enable the protection of outdoor zones from weather. Fencing will only be supported in extreme circumstances where weather and privacy issues are significant concerns. |
| Passive Solar Access | Orientation for good thermal comfort within dwellings is encouraged. |



fig 2.1, Siting and Front Interface





Built Form and Upper Level Development

Objectives:

- To encourage a cluster of modest and sensitive dwellings to maintain the coastal and rural characteristics of the town.
- To maintain the dominance of the landscape over built form, minimizing the impact of built form on views of the surrounding landscape.
- To encourage views from and between dwellings to the surrounding landscape.
- To minimise the visual bulk of upper-storey development, with differentiated massing between ground and upper storeys.

| Strate | aies: |
|--------|-------|
| onuto | 9100. |

| enalogion | | | | | |
|---|---|--|--|--|--|
| Height | A maximum height is set to 8m to restrict dwellings to two storeys . | | | | |
| Built Form | Built form should reflect the scale of that around it. Dwellings should be detached | | | | |
| | without shared party walls between adjoining properties. | | | | |
| Building footprint | Maximum footprint sizes for dwellings are outlined in the relevant NCZ. An application to subdivide land that seeks to create a lot less than the neighbourhood character average must be accompanied by a building envelope in accordance with the site coverage provisions of the NCZ on each of those lots less in area than the neighbourhood character area. | | | | |
| Upper Level | Guidelines for the size of upper level development vary according to NCZ. It is | | | | |
| Development always to be smaller in floor area to the ground floor. Key directions inc | | | | | |
| Massing should be arranged to minimize visual impact from the landscape and streetscape. From key views, including the street upper floer massing should be seen to stop in from the lower. | | | | | |
| | View corridors are to be enhanced. Any upper level development should have regard for adjacent existing development, with the aim of maximising the distance between upper level built form to highlight openness and views. | | | | |



fig 2.2, Elevation showing height and upper level development





Environmentally Sensitive and Sustainable Design

Objectives:

- To minimize the impact of buildings and built form on the surrounding landscape and environment.
- To protect the water quality of surrounding catchments, including the Curdies Estuary.
- To encourage the planting of indigenous species to promote planting in the area.
- To encourage buildings which visually complement the features of the surrounding environment.

Strategies:

| Roof Form | A diversity of roof forms is encouraged. Roofs should be designed to enable: | | | |
|------------------------|---|--|--|--|
| | the natural washing of salt and sea spray, | | | |
| | the harvest and reuse of rainwater. | | | |
| Colours | Light and pale colours are dominant in the buildings of the town and are perceived | | | |
| | as sympathetic to the landscape and setting. An equally acceptable solution can be | | | |
| | achieved through the use of natural materials and finishes that 'age' with the | | | |
| | landscape and incorporate colours and textures that are typical of the local natural | | | |
| | environment. It should be demonstrated that they directly complement local | | | |
| | landscape and flora. | | | |
| Stormwater Harvesting | esting Dwellings should conform to the strategies and standards developed by Moyne Shir | | | |
| | Council, Wannon Water and DSE to reduce stormwater runoff and reuse rainwater | | | |
| | to designated levels. | | | |
| Indigenous Landscaping | Properties should use in an integrated manner planting guidelines developed by | | | |
| | Moyne Shire Council with Parks Victoria. These include lists of preferred plants and | | | |
| | pest plants, as well as suggestions for size and height (refer Appendix 2). All new | | | |
| | development should incorporate substantial provision of indigenous planting to | | | |
| | foster rehabilitation of the coastal flora and fauna. | | | |
| Energy Performance | New dwellings are required to achieve a 5-star energy rating. Design for good solar | | | |
| | orientation, shading of windows and appropriate materials will assist to achieve | | | |
| | this. Solar panels to be integrated where possible and practical. | | | |
| Plant & Equipment | Visible roofscapes should be free of mechanical plant and equipment. Any new plan | | | |
| ••• | should be integrated with the design. Refer planning scheme, clause 19.03 | | | |



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3. NEIGHBOURHOOD CHARACTER ZONES

The UDF and Panel Report go into detailed discussion of the character of neighbourhoods in Peterborough. They outline three stages for expansion of residential areas of the town.

In order to better define central, settled areas of Peterborough from the rural fringe, two Neighbourhood Character Zones (NCZ's) have been established. Guidelines are developed for each of these with relevance to their location and role within the village and landscape. Key building attributes, interfaces and treatments are limited in each zone as appropriate.

NCZ specific guidelines outline provisions governing:

- Site Coverage
- Hard Standing Area
- Upper Level Built Form and Massing
- Front and Side Setbacks



fig 3.1, Issues covered by NCZ guidelines





Neighbourhood Character Zone 1 [NCZ1 - Central]

NCZ1 covers the parts of the town that are seen as becoming the central areas of settlement. These are in 'Old Peterborough', 'Little Peterborough' and along the Great Ocean Road.









NCZ 1 (Central)

Objectives:

- To encourage the retention of an informal coastal ensemble of buildings, occupying small footprints.
- To define central settled areas of town to enhance cohesion and identity of the town.
- Incorporate and enhance the natural and indigenous landscape.
- To support a unique coastal village character in design response and streetscape treatments, discouraging a suburban aesthetic and environment.
- To provide for the incorporation of small-scale commercial accommodation facilities in and around the commercial centre.
- To provide for housing close to business and community facilities appropriate for elderly and special needs persons.
- To encourage environmentally sensitive design approaches, including the control of paved areas for site permeability.

| Lot Size | Whilst a minimum lot size cannot be prescribed, average lot sizes that define existing character generally exceed 700m ² | | |
|--|---|--|--|
| Site Coverage | The site coverage of a building should not exceed 40% of the lot or 300m² , whichever is the lesser. | | |
| Hard Standing Area | Hard standing area should be a maximum of 10% of the lot area or 80m² , whichever is the lesser and should wherever possible be | | |
| Upper Level Built Form | Where a two-storey residence is designed, the footprint of second storey should not exceed 75% of that of the ground floor. | | |
| Front Setback | A minimum of 10m from the road surface or to match the average setback of adjacent existing development, whichever is the greater. | | |
| Side Setback | A minimum side setback of 3m should be observed with a minimum distance of 5m to neighbouring buildings to ensure a dispersed built form character is retained. | | |

Strategies:



Neighbourhood Character Zone 2 [NCZ2 - Fringe]

NCZ2 covers the 'fringe' residential areas in close interface with the natural environment. It forms the interface between the central areas of town settlement and the natural landscape and significant features.



fig 3.3 Neighbourhood Character Zone 2





NCZ 2 (Fringe)

Objectives:

- To provide a transition from built form to the sensitive coastal landscape.
- To encourage the retention of an informal coastal ensemble of buildings, occupying small footprints.
- To provide a low density of built form in the fringe areas of town, such that the impact of built form as seen from the surrounding landscape is minimized.
- To provide an aesthetic and character where the natural landscape continues to dominate built form.
- To utilize and enhance views towards the agricultural hinterland [north], surrounding estuary [east] and national parks.
- To allow informal and open streets, with views from these out into the landscape.
- To encourage environmentally sensitive design approaches, including the control of paved areas for site permeability.

| Lot Size | Whilst a minimum lot size cannot be prescribed, average lot sizes that | | | |
|--|--|--|--|--|
| | define existing character generally exceed 800m ² . | | | |
| Site Coverage | The site coverage of a building should be a maximum of 30% of the lot | | | |
| | or 260m², whichever is the lesser. | | | |
| | | | | |
| Hard Standing Area | Hard standing area should be a maximum of 10% of the lot area or | | | |
| | 80m ² , whichever is lesser and should wherever possible be | | | |
| | permeable. | | | |
| Upper Level Built Form | Where a two-storey residence is designed, the footprint of second storey | | | |
| | should not exceed 50% of that of the ground floor. | | | |
| Front Setback | A minimum of 15m from the road surface or to match the average | | | |
| | setback of adjacent existing development, whichever is the greater. | | | |
| Side Setback | A minimum side setback of 4m should be observed with a minimum | | | |
| | distance of 8m from neighbouring buildings to ensure a dispersed built | | | |
| | form character is retained with a greater dominance of the natural | | | |
| | environment. | | | |

Strategies:



3. DEVELOPMENT TYPE AND CONTEXT

Infill Development

As part of 'Stage 1' of the residential expansion for Peterborough outlined in the UDF, lots with existing dwellings as well as unoccupied lots within the existing town fabric can be developed. This infill of existing residential area applies to the lots shown below.







Infill Development

Objectives:

- To integrate new built form into the existing fabric of the town without compromising character.
- To integrate new dwellings into existing streetscapes with appropriate dwelling frontages without compromising existing open spaces and views.
- To maintain the spaces and views between built form in residential streets.
- To encourage built form that is of appropriate size and density to the existing residential area.

Strategies:

| Lot Size | Existing lot sizes vary greatly through the town. Limits on new subdivided lots are |
|--------------------------------------|---|
| | defined under the relevant NCZ. Where surrounding lots are larger than NCZ |
| | limits new subdivided lots should be of a similar order |
| | |
| | As an eventual a number of blacks from the evicinal terms contain which |
| Ula Peterborough | |
| | are around 2000m ⁻ in size. These original blocks have generally been subdivided |
| | into two parts, of around 1000 m ² each. Where original lots are proposed for |
| | division in 'Old Peterborough' this strategy should be continued to provide two |
| | large residential lots (of approx. 1000m ²). |
| Lot Subdivision | Subdivision of land in existing residential areas should be perpendicular to the |
| | street they abut, so that all lots have significant street frontage, with corner sites |
| | addressing both streets. |
| Street Setback | In contributing to a homogenous streetscape, front setbacks of new buildings |
| | should also strongly relate to those surrounding them. Hence, street setbacks of |
| | infill development may vary from the NCZ limit where those of adjacent |
| | properties are less |
| Street Frontage | All new dwellings should address the street on which they are located. Where |
| otroot i fontago | division of huilt form occurs, this should occur perpendicular to the street of open |
| | anoso which they shut |
| | |
| Side Setbacks | Where existing adjacent properties significantly infringe upon side setbacks, the |
| | width of a new built form may be compromised. Here, new dwellings should aim |
| | at providing at least one significant view corridor of minimum 5m to one side of |
| | the new built form with 3m to the other. |
| | |







fig 4.2, Infill Development Principles



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New Subdivision on 'Greenfield Sites'

As an expansion to the existing residential areas of Peterborough, land outside the existing built fabric is identified for expansion of residential areas. These 'Greenfield Sites' are located between the three existing areas of development in the town and are divided into three areas for a staged development and expansion of the town. 'Stage 1' can occur simultaneous to Infill Development.



fig 4.3, Greenfield Subdivision Zone





New Subdivision on 'Greenfield Sites'

Objectives:

- To guide new development that reflects the existing character of the town.
- To encourage open and informal streetscapes which reflect the coastal character of the town.
- To connect new developments with the existing street and pedestrian networks of the town.
- To protect natural landscape features through the development of habitat zones and generous public open space networks that serve pedestrian networks.
- To utilize and enhance views towards the agricultural hinterland [north], surrounding estuary [east] and state and national parks.
- To allow informal and open streets, with views from these out into the landscape.
- To maintain the spaces and views between built form in residential streets.

| Street and Pedestrian | • An open layout and interconnected network of streets should be provided, |
|-----------------------|---|
| Network | without cul-de-sacs. |
| | Streets should be well integrated with the existing street network. |
| | • Where appropriate, streets should be laid out parallel and perpendicular to |
| | views to the estuary (primarily to the north-east). This will enable streetscapes |
| | to frame views and multiple houses to benefit from these vistas |
| | Where sinkholes exist streats should be laid out to provide for a maximum. |
| | - where sinknotes exist, sileets should be faid out to provide for a maximum |
| | |
| | Development should acknowledge future growth by providing for pedestrian |
| | and habitat linkages that align with key landscape features. |
| Public Open Space | Habitat Corridors should be developed within all new developments, with the |
| | use of indigenous landscape guides defined by Moyne Shire Council. |
| | • Limestone sinkholes and other significant landscape features defined by Moyne |
| | Shire Council should be maintained and utilized as public open space and |
| | habitat zones |
| | Habitat zones and onen snace corridors should be developed to accommodate |
| | key desire lines for pedestrian meyoment and should onsure new and existing |
| | key desire lines for pedestrial inovement and should ensure new and existing |
| | areas of the town are well connected. |
| Lot Division | The arrangement of streets and blocks in new subdivisions should respond to |
| | landscape features and highlight views from and towards the surrounding rural and |
| | coastal areas. These should focus on the agricultural hinterland [north], surrounding |
| | estuary [east] and national parks. |
| | |
| ■ Lot Size | In developments where public open space and habitat zones exceed 5% of the |
| | development area this area in excess of 5% can be included as dispensation to |
| | averane Int sizes |
| | |

Strategies:





5. SITE SPECIFIC GUIDELINES

Properties Abutting Sinkholes

Where possible, subdivision should occur so that numerous properties abut sinkholes, generally at the property's rear. The sinkhole will act as a natural 'habitat zone' encouraging native flora and fauna and will be a shared feature for all properties around it. Existing examples of this can be seen around the town.

Buildings should address both the street they are on and the landscape feature. This address should be open and informal. Buildings should have a minimum setback of 15m from the sinkhole's edge. Fences are discouraged and should not block views between dwellings and the feature. Instead developments should use landscaping or built form decisions to enable the protection of outdoor zones from weather. Fencing will only be supported in extreme circumstances.

Where included as part of a town trail network, adequate informal reserve should be provided so that pedestrians can access the sinkholes and walk around one side of them. For this purpose, **a strip of at least 5m should be maintained around a sinkhole's edge**.



fig 5.1, Treatment of Sites Abutting Sinkholes



Corner Sites in 'Old Peterborough'

augh town survey remain. These lets are large

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A number of residential lots from the original Peterborough town survey remain. These lots are large, around 2000m² in size and a number of these occur on corner sites. Where subdivision of these lots occurs, it should be into two, in accordance with infill development guidelines.

The division of these blocks should be done so as to address the streets on both sides. Where possible, **the new boundary line should run perpendicular to the short side of the block**, so that each new lot fronts this street. This will maintain a wide frontage to the street running east-west. It will further activate the street running north-south.

Street setbacks should be consistent around both blocks. **Two-storey dwellings are encouraged on the resulting corner blocks.** These will act as visual focal points within the central residential area of the town.



fig 5.2, Treatment of Corner Sites in Old Peterborough





Dwellings Abutting the Golf Course

Some dwellings on Schomberg Road, Mac's Street and Halladale Road face the Peterborough Golf Course and may be hit by wayward golf balls.

Dwellings in this area may wish to consider the installation of safety glazing material.

Sites Abutting 'The Great Ocean Road'

The 'Great Ocean Road' tourist route runs through Peterborough, the road surface surrounded by reserve of indigenous landscaping. Where residential properties abut this, the planting strategy should be fully integrated with the lots through the continuation of plant types and heights onto private properties. Fences are not permitted along this interface, and planting should be used as a visual and acoustic screen from the traffic on this route.

Building should be sited to address the road and reserve. Transitional terrace, verandah and balcony zones to these public abutments are encouraged. Blank, unbroken walls will not be permitted.



APPENDIX 1.

Urban Morphology of Peterborough

Background

The Planning Panel Report, following the UDF, recommended that the unique urban character of Peterborough justified a town specific set of residential guidelines for future development. These guidelines were to ensure that the modest scale and footprint of built form within the landscape and special coastal setting vernacular were retained.

Methodology

The approach of MGS has been to map the characteristics of existing settlements as a basis for determining appropriate characteristics for new dwellings. Where the relationship of building footprint to site context has been a key determinant of character, as is the case at Peterborough, this has been a key consideration. Other characteristics include the scale of footprint, street frontage and street setback. New guidelines have a stated goal of maintaining character while enabling the township to increase densities and develop greater housing diversity.

Findings

The urban form of the town was analysed with regard to existing patterns of settlement. This has seen three major stages of development outlined in the UDF (pg. 27):

- The 'old' township of Peterborough, on either side of the Great Ocean Road east of Old Peterborough Road,
- 'Little Peterborough' extending north of the Great Ocean Road and Irvine Reserve between Old Peterborough and Halladale Roads, and
- Linear development along the Great Ocean Road west of the Old Peterborough Road, including Childers, Casino and Merrett Streets.

The findings are tabulated in Figure 6.1.

Conclusion

The analysis indicates very low levels of site coverage that have enabled the natural landscape and streetscape pattern to remain dominant. The guidelines have been prepared to facilitate an additional 150 lots within the existing town fabric, with additional land to the north of approximately 12 hectares. This represents the potential to approximately double the housing stock of 254 in the town, thereby addressing both DSE objectives for facilitating growth and diversity whilst also managing the equally important objective of maintaining an appropriate township character and interface with an environment of high national significance.



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NOTE: BUILDING FOOTPRINTS ARE APPROXIMATE ONLY, SUFFICIENT FOR ANALYSIS AT AN URBAN SCALE.

| | Built form coverage of residential area | Ave. dwelling footprint | Dwelling setback from street | Ave. street frontage of dwelling | Ave. break in built form on adjacent blocks |
|-------------------|---|-------------------------------|------------------------------------|--|---|
| 1. 'Old' town | | | | | |
| settlement | 20% | Up to 25% | 10m | 10-12m | 7-8m |
| 2. 'Little | | | | | |
| Peterborough' | 25% | Up to 30% | 10-14m | 10-12m | 6-8m |
| 3. Linear | | | | | |
| development along | | | | | |
| Great Ocean Road | 25% | 30% | 10-25m | 12m | 5-6m |



APPENDIX 2.



Recommended Landscape Plants for Peterborough & Common Environmental Weeds.

Prepared by Bartholomew Gane (Moyne Shire Council), with reference to Sparrow and Pritchard (2004) *Plants of the Great South West*, Society for Growing Australian Plants Warrnambool and District Group Inc, and *The Indigenous Plants of Moyne Shire*, Moyne Shire Council.

NOTES

Use local provenance material

Local provenances from specialist nurseries should be selected to prevent cross-pollination of 'commercial' varieties with local remnant vegetation. Specialist propagators require a lead time of around 6 months for most tube stock orders.

Check the quality of nursery stock

Always check nursery stock for evidence of excessive root spiraling. (Simply tap out the plant rootball and look for evidence of excessive matting.) This is particularly important for trees. Trees will fail if there is excessive canopy growth in comparison to the root system area. These plants cannot obtain enough water to supply the canopy and consequently remain stunted or die of drought stress.

Maintenance of new plantings

New plantings require a prepared planting bed, regular deep watering and a soil area free from root competition. Before planting remove grass from a wide area around the base of young plants and apply a layer of varied diameter mulch to the bare soil (around 70 mm in depth). Keep the root zone mulched and weed free until new plantings are mature.

| BOTANICAL NAME | COMMON NAME | HABIT | COMMENTS |
|----------------------------|-----------------|----------------------------|----------------------------|
| Acacia melanoxylon | Blackwood | Locally, a stubby upright, | Highly variable, but |
| | | irregular broad headed | generally scrubby near the |
| | | tree, 3 – 20 m | coast. Green phyllodes |
| | | | with rough dark bark and |
| | | | pale yellow ball flowers. |
| Allocasuarina verticillata | Drooping Sheoak | Ungainly when young, but | Fine blue-grey branchlets |
| | | maturing to an elegant | with rusty orange flower |
| | | broad headed pendulous | stems and decorative |
| | | form, 6 – 12 M | prickly cones. Tolerates |
| | | | extreme exposure. |
| Banksia marginata | Silver Banksia | Mounding, with a | Fine foliage with silver |
| | | spreading canopy, | undersides and slight |
| | | prostrate to 7m | serrations. Golden, stubby |
| | | | cylindrical –candles. Slow |
| | | | growing, but a fine small |

RECOMMENDED TREES



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| | | | tree with high salt wind |
|--------------------------------|----------------------|---|---|
| | | | tolerance. |
| Eucalyptus obliqua | Messmate Stringybark | Mallee-form near the | Fissured fibrous bark with |
| | | coast and locally 6 to 30m | strongly scented foliage |
| | | | and creamy flowers. |
| Eucalyptus ovata var. ovata | Swamp Gum | Upright, pendulous and often multi-trunked | Smooth light bark, peeling near base. Slightly |
| | | locally, 8 – 25 m | pendulous with scented |
| | | | Tolerates wet soils. |

RECOMMENDED SHRUBS

| BOTANICAL NAME | COMMON NAME | HABIT | COMMENTS |
|------------------------------|-------------------|---|---|
| Acacia verticillata | Prickly Moses | Rambling loose horizontal form, stiffening with age to 1 – 5 m | Fine needle-like foliage along branchlets. Off-yellow tubular flower heads. Attracts ground- dwelling birds. |
| Acacia myrtifolia | Mytle Wattle | Upright stiff form, sprawling with age, 0.5 — 2m | Decorative thick sickle-shaped foliage with reddish new growth and bright yellow clusters of ball flowers. |
| Atriplex cinerea | Coast Saltbush | Upright and rounded to 2 m | Fast growing with silvery colouring and purple-red terminal flower clusters. Extremely tolerant of front-line coastal exposure. |
| Leptospermum lanigerum | Woolly Tea-tree | Upright narrow form with a spreading crown to 2 -6 m | Thrives in wet soils. Soft, fine, bluish-green foliage with cotton- like masses of white flower heads. |
| Leptospermum continentale | Prickly Tea-tree | Horizontal woody shrub to 1 – 4 m | Papery upright stems, with scented prickly foliage and masses of white flowers. |
| Leucopogon parviflorus | Coast Beard Heath | Stunted woody heath to 1 – 4 m | Brittle dark fissured trunk with branching stems, fine foliage and masses of creamy-white flowers. |
| Goodenia ovata | Hop Goodenia | Rounded form up to 2m | Glossy bright green foliage with yellow flowers throughout spring- summer, and occasionally throughout the year. Best with some protection. Very fast growing. |
| Solanum laciniatum | Kangaroo Apple | Rounded upright shrub | Fast growing colonizer with dissected dark green leaves, purple stems, blue flowers and orange egg-shaped fruit. |
| Olearia axillaris | Coast Daisy-bush | Rounded, stiffening with age to 2 m | Silvery grey foliage with pale yellow flowers. Fine foliage and extreme coastal tolerance. |
| Melaleuca squarrosa | Scented Paperbark | Erect shrub to 2 – 4 m | Scrubby paperbark, with a strong myrtle scent and creamy, honey- scented bottlebrush flowers. |





RECOMMENDED GROUNDCOVERS AND GRASSES

| BOTANICAL NAME | COMMON NAME | HABIT | COMMENTS |
|------------------------------|-----------------------|----------------------|-------------------------------------|
| Acaena novae-zelandiae | Bidgee Widgee | Dense mat | Dark glossy green foliage with |
| | | | spherical spiny seed-heads. |
| Carpobrotus rossii | Karkalla | Mat forming | Succulent with vivid magenta to |
| | | - | lemon daisy flowers. |
| Clematis microphylla | Small-leafed Clematis | Loose clumping | Lime green shiny foliage with |
| | | climber | delicate feathery seed-heads. |
| | | | Tolerates extreme exposure. |
| Correa alba var. pannosa | White Correa | Dense and compact | Grevish green hairy foliage with a |
| | compact form | to less than 1 m | compact form and rusty brown |
| | · · · · · | | stems. White star-shaped flowers |
| | | | with a pink form sometimes |
| | | | available. |
| <i>Correa reflexa</i> subsp. | Common Correa | Mounding low shrub | Light green foliage with green |
| reflexa | | to 1 m | bells. |
| Dianella tasmanica | Tasman Flax-lilv | Strappy clump with | Linear sword-like foliage with |
| Branona taomamoa | laoman i an ing | rhizomes to | small purple lily flowers and lapis |
| | | 1 m | lazuli berries. |
| Isopogon ceratophyllus | Horny Cone-bush | Spiny clump to | Unusual sculptural form with a |
| | | 1 m | cone-like inflorescence. |
| Kennedia prostrata | Running Postman | Vigorous rambling | Trifoliate dull green foliage with |
| | <u>j</u> | mat or climber | wiry stems and red pea flowers. |
| Leucophyta brownii | Cushion Bush | Mounding form to | A vivid silver 'cushion' of fine |
| , , | | less than 1 m | compact branchlets with pale |
| | | | globular flower heads. Tolerates |
| | | | extreme exposure. |
| Ozmanthus turbinatus | Coast Everlasting | Dense, upright | Erect branchlets with crowded |
| | | rounded form to | clusters of creamy flowers. |
| | | 2 m | Tolerates extreme coastal |
| | | | exposure. |
| Patersonia occidentalis | Long Purple-flag | Strappy clump to | Fine blade-like foliage with many |
| | | 0.8 m | heads of mauve iris flowers. |
| Poa labillardierei | Common Tussock | Clump forming | Blue-green fine foliage with |
| | Grass | tussock to 1.8 m | spectacular long purple tinged |
| | | | seed heads. |
| Poa poiformis | Coast Tussock Grass | Clump forming to | Blue-green waxy foliage. Tolerant |
| | | tussock to 1 m | of extreme exposure. |
| Rhagodia candolleana | Seaberry Saltbush | Sprawling, vigorous, | Rampant growing small off-green |
| subsp. <i>candolleana</i> | | matting shrub or | foliaged shrub with succulent red |
| | | climber | fruit. Effective for covering large |
| | | | areas. |
| Rubus parvifolius | Native Raspberry | Wiry bramble | Twining and barbed native rose |
| | | | with small edible |
| | | | raspberries. |
| Stylidium graminifolium | Grass Trigger-plant | Small clumping | Glossy, fine strappy leaves aging |
| | | rosette | to red in autumn with a delicate |
| | | | spire of mauve-pink 'trigger' |
| | | | flowers. Highly ornamental. |





| Themeda triandra | Kangaroo Grass | Small clumping tussock grass | Rusty foliage in winter with green luxuriant summer growth. Purple- green to rusty triangular seed heads. |
|------------------------|-------------------|--|--|
| Viola hederacea | Native Violet | Low clump | Kidney-shaped foliage with purple to white violets on emergent stems. |
| Xanthorrhoea australis | Austral Grasstree | Fine tussock on a short stump with extreme age | Blue-green, fine needle-like foliage with a tall, woody spear-like flower spike of small creamy flowers. |

RECOMMENDED WETLAND PLANTS

| COMMON NAME | HABIT | COMMENTS |
|-------------------|---|---|
| Tall Sedge | Spiny tussock to | Spiky textural seed heads with fine |
| | 0.6 m | foliage. |
| Nobby Club-rush | Spiny tussock to | Vivid deep-green graceful needle- |
| | 0.8 m | like foliage with decorative cream |
| | | and brown globular flower heads. |
| | | Tolerates sand soils and extreme |
| | | exposure. |
| Tall Saw-sedge | Sprawling multi- | Pendulous linear foliage with sharp |
| | stemmed clump to | edges. Charcoal pampas-like |
| | 1.5 – 4 m | flower-heads interspersed with |
| | | shiny bright red visible seeds. |
| | | Dramatic architectural form. |
| Thatch Saw-sedge | Rhizomatous tussock | Fine spreading kaki foliage with |
| | to | clumping stems of rusty seed- |
| | 1 – 2 m | heads. |
| Pale Rush | Stiff clump to | Long rounded sharp stems from a |
| | 2.2 m | central clump with rusty brown |
| | | textured seed-heads. Dramatic |
| 0 1 0 | | architectural form. |
| Coast Saw-sedge | Rhizomatous tussock | Flattened sword-like glossy green |
| | toIm | foliage with large brown seed- |
| 0 | 0 | heads. |
| Spiny-neaded Mat- | Strappy tussock to | Strappy pale green follage with |
| rusn | 0.3 m - 0.7 m | attractive spiny green nower |
| | | sterns. Wheely used by the |
| Sharp Club rush | Phizomotous tuft to | Pobuet stout stome with bluigh loof |
| Sharb Clan-Lash | | |
| Water Pibbone | Emorgont strappy | Dases. |
| | aniatic | attractive emergent flower boads |
| | αγματις | Foliage floats on the surface of still |
| | 1 | |
| | COMMON NAME Tall Sedge Nobby Club-rush Tall Saw-sedge Thatch Saw-sedge Pale Rush Coast Saw-sedge Spiny-headed Mat- rush Sharp Club-rush Water Ribbons | COMMON NAMEHABITTall SedgeSpiny tussock to 0.6 mNobby Club-rushSpiny tussock to 0.8 mTall Saw-sedgeSprawling multi- stemmed clump to 1.5 - 4 mThatch Saw-sedgeRhizomatous tussock to 1 - 2 mPale RushStiff clump to 2.2 mCoast Saw-sedgeRhizomatous tussock to 1 mSpiny-headed Mat- rushStrappy tussock to 0.3 m - 0.7 mSharp Club-rushRhizomatous tuft to 0.6 mWater RibbonsEmergent strappy aquatic |



| Common Name | Species Name |
|----------------------|------------------------------------|
| Cootamundra Wattle | Acacia baileyana |
| Cape Wattle | Paraserianthes lophantha |
| Radiata Pine | Pinus radiata |
| Sweet Pittosporum | Pittosporum undulatum |
| Willow | Salix species |
| Mirror Bush | Coprosma repens |
| Cotoneaster | Cotoneaster glaucophyllus |
| Hawthorn | Crataegus monogyna |
| Common Broom | Cytisus scoparius |
| Spanish Heath | Erica lusitanica |
| African Boxthorn | Lycium ferocissimum |
| Cape Honey-flower | Melianthus major |
| Myrtle-leaf milkwort | Polygala myrtifolia |
| Italian Buckthorn | Rhamnus alaternus |
| Sweet Briar | Rosa rubiginosa |
| Blackberry | Rubus fruticosus species |
| Gorse | Ulex europaeus |
| Cape Broom | Genista monospessulana |
| Flax-leaf Broom | Genista linifolia |
| Asparagus Fern | Asparagus scandens |
| Cape Ivy | Delairea odorata |
| English Ivy | Hedera helix |
| Blue Periwinkle | Vinca major |
| Montbretia | Crocosmia x crocosmiiflora |
| Harlequin Flower | Sparaxis bulbifera varieties |
| Bulbil Watsonia | Watsonia meriana var. bulbillifera |
| Agapanthus | Agapanthus praecox ssp. orientalis |
| Agave | Agave americana |
| Fennel | Foeniculum vulgare |
| Freesia | Freesia alba x Freesia leichtlinii |
| Gazania | Gazania species |

COMMON ENVIRONMENTAL WEEDS OF MOYNE SHIRE





| Ixia | lxia maculata |
|----------------------|---|
| Purple Groundsel | Senecio elegans |
| Ragwort | Senecio jacobaea |
| Marram Grass | Ammophila arenaria |
| Pampas Grass | Cortaderia selloana & Cortaderia jubata |
| Chilean Needle-grass | Nassella neesiana |
| Fountain Grass | Pennisetum setaceum |



APPENDIX 3.



Antares Estate Subdivision – Indicative Schematic Design

A schematic design for the Antares Estate has been developed by MGS Architects. This applies strategies from the UDG to develop existing proposals to comply with the vision and direction of the guidelines. This should be considered as an indicative approach for future 'greenfield subdivision'.







SCHEMATIC DESIGN - ANTARES DEVELOPMENT

PETERBOROUGH UDG

SCALE 1:1000 @ A3 APRIL '06



Moyne Shire Council



APPENDIX 4.

Key Sites for the Development of the Public Realm

Schematic design direction has been directed for key sites around Peterborough. This is intended to provide a framework for the improvement of the public realm, including the development of a pedestrian network and community facilities, while allowing the expansion and diversification of commercial facilities in Peterborough as desired.





TRAIL NETWORK STRATEGY

SCALE 1:10,000 @ A3

PETERBOROUGH UDG

Moyne Shire Council

KEY SITES FOR PEDESTRIAN CONNECTIONS:

1. A CONNECTION THROUGH NEW 'GREENFIELD SITES' CONNECTING SIGNIFICANT SINKHOLES AND NEW STREET NETWORKS.

2. THE CURDIES ESTUARY WITH THE POTENTIAL TO UPGRADE AND IMPROVE INDIGENOUS, HISTORICAL AND MARITIME INFORMATION. TO BE COORDINATED WITH THE CURDIES CATCHMENT AUTHORITY.

3. THE BOAT RAMP, DOREY STREET.

4. 'TOWN CORE, MACS STREET AND FORESHORE AREAS. CONNECTION IN TOWN WILL OCCUR AROUND STREETS.5. BAY OF ISLANDS NATIONAL PARK. A CONNECTION WITH THE EXISTING TRAILS IN THE PARK.

SITE FOR IMPROVED PEDESTRIAN ROAD CROSSING

EXISTING PEDESTRIAN PATHWAY

– – – POTENTIAL PEDESTRIAN PATHWAY

GREAT OCEAN ROAD TOURIST ROUTE

AREAS FOR FOR COORDINATION WITH PARKS VICTORIA AND CATCHMENT AUTHORITY.

MAY '06







TRAILS above: Examples of informal dirt tracks straddled by indigenous planting. Track surface is loose stone or soil.

STONE BENCHES





Examples of timber routed signs and timber post place markers. Historically widely used types by Parks Victoria, currently in use in low yield Parks Victoria sites around Peterborough.

SIGNAGE above: Examples of risk and aquatic signage standards used by Surf Living Saving Victoria and Parks Victoria. Double-post signs around Peterborough to have straight top and bottom edges. (source: Aquatic and Recreational Signage Guide, Style Manual, Surf Life Saving Victoria, 2001)

TRAILS, STONE BENCH AND SIGNAGE STANDARDS



left: Stone bench located at 'The Lookout' in Peterborough. above: Example of historic stone bench from the local area.



MAY '06

Moyne Shire Council



1. MACS STREET SHOPS. THE UPGRADE AND DIVERSIFICATION OF SHOPS & COMMUNITY SERVICES TO ENHANCE PRESENTATION & INTERACTION WITH STREETS & STRENGTHEN TOWN CORE IDENTITY. NEW SHOPS TO INCLUDE AWNINGS, SHOPFRONTS AND PEDESTRIAN PROTECTION.

2. MACS STREET TREATMENT. THE TREATMENT OF THE ROAD SURFACE & LANDSCAPING TO MARK THE TOWN BUSINESS CORE. FOOTPATHS AND ANGLE PARKING TO BE PROVIDED TO SHOPS AND PROVIDE LINKS TO IRVINE STREET

3. CAFE ON MOTEL SITE. THE DEVELOPMENT OF A CAFE TENANCY ON THE CORNER OF MACS AND IRVINE STREET. CAFE TO OPEN ONTO BOTH STREETS AND OVERLOOK 'THE GAP' FORESHORE RESERVE.

4. IRVINE STREET. THE IMPROVEMENT OF STREET AMENITY THROUGH WIND PROTECTION ENHANCEMENT ON AVENUE QUALITY PROVIDED BY IMPROVED LANDSCAPING. ENHANCEMENT OF PEDESTRIAN ACCESS AND REALM THROUGH THE UPGRADE OF PATHWAYS AND KEY CROSSING POINTS THE SLOWING OF VEHICULAR TRAFFIC THROUGH THE NARROWING AND RAISING OF THE ROAD SURFACE AT KEY POINTS. LIMITED LOCAL CARPARKING PROVIDED AT KEY POINTS.

5. FORESHORE CARPARKING. THE REDEVELOPMENT OF EXISTING CARPARKING TO BE DOUBLE LOADED & INCLUDE DISBALED PARKS. NEW LANDSCAPING TO SOFTEN THIS FROM THE ROADWAY.

6. UPGRADED FORESHORE FACILITIES. IMPROVEMENTS TO BEACH AMENITY INCLUDING WEATHER PROTECTED SEATING AREAS, BBQ AND DISABLED ACCESS TO THE BEACH.

KEY SITES FOR DEVELOPMENT - TOWN CORE & FORESHORE

PETERBOROUGH UDG

SCALE 1:1000 @A3









BUSINESS 1 ZONES

NEW ROAD / CARPARK TREATMENT

NEW LANDSCAPE AREAS

EXISTING BUIDINGS & FACILITIES

PROPOSED BUIDINGS & FACILITIES











1. GREAT OCEAN ROAD / TOURIST CARPARKING.

UPGRADE EXISTING CARPARKING TO SCHOMBERG INN TO INCLUDE TOURIST BUS STOP. LAND-SCAPING TO SOFTEN AND BREAK CARPARK EDGES FROM ROAD. NEW ANGLE PARKING TO BE IN-CORPORATED IN FRONT OF SHOPS SOUTH OF THE GREAT OCEAN ROAD.

2. NEW GREAT OCEAN ROAD / TOURIST SHOPS. THE ESTABLISHMENT OF NEW BUSINESS ACTIVITY IN ONE & TWO LEVEL CONFIGURATION TO

MAXIMUM 8m HEIGHT.

3. TOWN ENTRY.

TOWN ENTRY SIGNAGE AND IMPROVED PEDESTRIAN CROSSING OF THE GREAT OCEAN ROAD. 4. IRVINE STREET.

THE IMPROVEMENT OF PEDESTRIAN AMENITY AND AVENUE QUALITY THROUGH LANDSCAPING AND NARROWING OF ROAD SURFACE



KEY SITES FOR DEVELOPMENT - GREAT OCEAN ROAD

PETERBOROUGH UDG

SCALE 1:1000 @ A3 MAY '06 Moyne Shire Council







HOOPERS KIOSK, CHANDLERY AND SAILING CLASSROOM, ALBERT PARK. MGS ARCHITECTS

1. EXAMPLE OF BUILDING TYPE:

FACILITIES

FACILITIES

■ ■ ■ PEDESTRIAN ROUTE

PROPOSED BUIDINGS &

PETERBOROUGH UDG

KEY SITES FOR DEVELOPMENT - GOLF COURSE CLUBHOUSE



1. REDEVELOPMENT OF GOLF COURSE CLUBHOUSE AS A COMMUNITY FOCUS INCLUDING CLUB FACILITIES. POTENTIAL TO UPGRADE EXISTING GOLF CLUB FACILITIES WITH THE INCORPORATION OF AN UPPER-LEVEL MEETING & RECEPTION HALL FOR 100 PEOPLE, WITH IMPROVED PRESENTATION TO GOLF

2. IMPROVEMENT OF CARPARKING FACILITIES.

OPPORTUNITY TO PROVIDE LAND AS SHARED COMMUNITY AND GOLF COURSE CARPARK. POTENTIAL TO LOCATE THIS FACILITY BEHIND NEW CLUBHOUSE WITH CONNECTION TO BLAIR STREET. TOGETHER WITH THIS IS THE OPPORTUNITY FOR THE PROVISION OF SOME ANGLE PARKING TO BE FORMALISED ALONG

3. UTILISATION OF VACANT LAND.

OPPORTUNITY TO UTILISE VACANT LAND ADJACENT TO CFA HALL. PRIMARY USE TO REMAIN AS CARPARKING WITH THE POTENTIAL FOR PUBLIC USE FORKEY PURPOSES AND EVENTS.



