

Liverpool Development Control Plan 2008

Part 2.3

Subdivision of land and Residential development in Georges Fair Moorebank

September 2024

Part 2.3 must be read in conjunction with Part 1

Refer to Part 3.8 for non residential development in residential zones

Liverpool Development Control Plan 2008

Part 2.3 Georges Fair Moorebank

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1. Preliminary

Applies to

1. Part 2.3 applies to the land, shown in Figure 1.
2. Part 1 also applies to the land shown in Figure 1.
3. Part 3.8 also applies for non residential development on the land.
4. Parts 3.1 – 3.7 do not apply to the land.

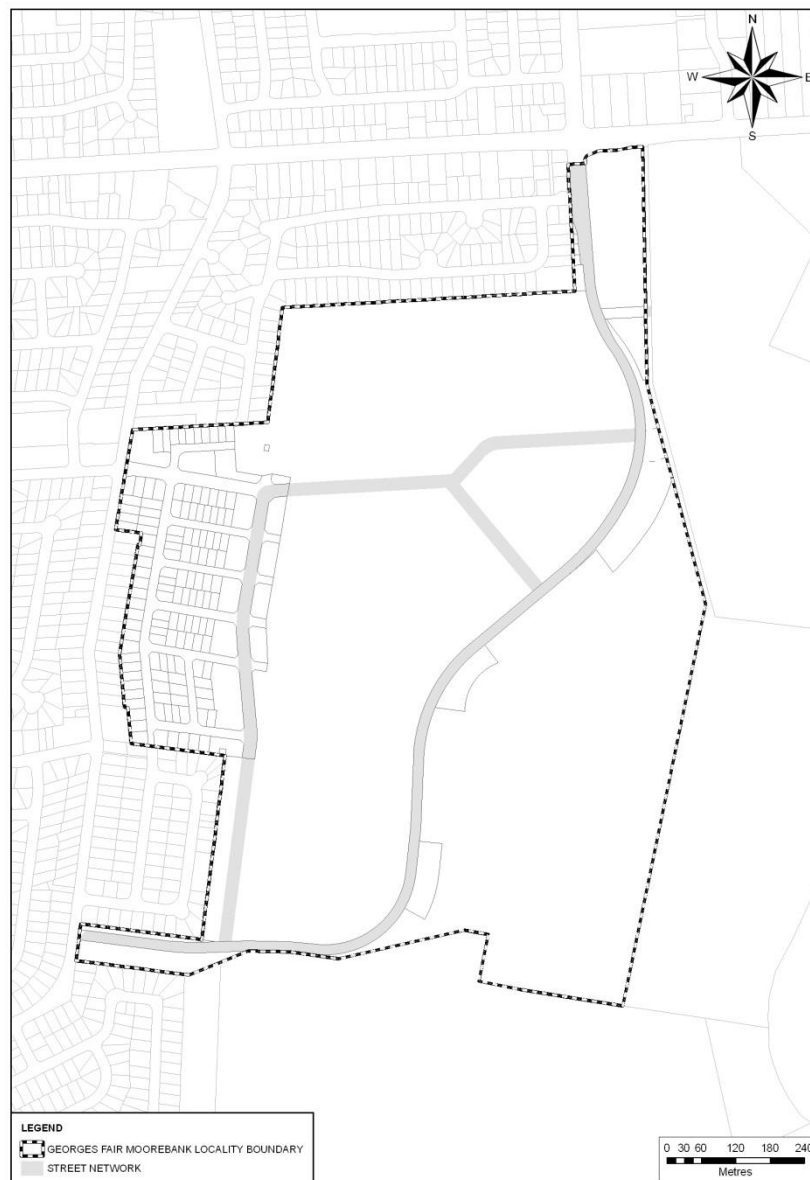


Figure 1 Land to which this Part applies

Background

The Georges Fair Moorebank Land was rezoned under Liverpool LEP 1997 Amendment No. 75 on 9 July 2004. The area was originally subject to Liverpool DCP No. 50, which came into force on 22 September 2003. There is still area that is not yet developed and is accordingly incorporated into this DCP.

A Site Structure Plan has been prepared as a conceptual guide to future development of the site (see Figure 2). It illustrates the areas to be developed for housing, potential location and function of streets, and local and district open space areas.

It has been determined having regard for the land form, environmental conditions of the site, surrounding local street network, and the relationship with adjoining residential areas.

The site is subject to a Developer Deed for the provision of the infrastructure at particular thresholds in the development process. Development shall be carried out in accordance with the Developer Deed.

Objectives

Accessibility

To ensure a clear relationship between accessibility and land use by:

- a) Promoting a movement system that gives appropriate priority to: walking, cycling, public transport, and private vehicles.
- b) Guaranteeing a movement system that relates accessibility demand to location of development type.
- c) Ensuring that servicing is able to be carried out appropriately.
- d) Ensuring movement priorities, traffic speeds and street and road designs are appropriate to the location and give priority to pedestrians and children.
- e) Guaranteeing adequate accessibility for emergency vehicles.
- f) Building upon existing movement patterns and infrastructure by utilising the existing street layout.
- g) Providing safe access during flooding events.

Social Benefits

To establish affordable and accessible facilities and resources that allow people to maintain wellbeing, live and recreate by ensuring that development creates a 'people place' by giving priority to people and human relationships through housing mix and safety.

Environmental Benefits

To ensure a clean, safe and healthy environment that builds on existing resources and produces quality built and natural assets by:

- a) Establishing appropriate drainage management that, contributes positively to the area.
- b) Developing solutions to manage environmental issues on-site.
- c) Ensuring that waste disposal is effective and efficient and that recycling is utilised at every opportunity.
- d) Ensuring a high standard of water and air pollution management and water quality.
- e) Maintaining and enhancing the quality of the natural environment.

- f) Connecting and enhancing vegetation corridors and providing links between the Georges River and Holsworthy.
- g) Promoting the development of place and a quality built environment with people and human relationships as a central consideration.

Economic Benefits

- a) To ensure appropriate accessibility to employment.
- b) To ensuring infrastructure is sufficient to meet current and predicted need.

2. Controls for Public Domain

2.1 Street Network

Background

The Georges Fair Moorebank area is to be an accessible place linked to its surroundings with streets, pedestrian and cyclist pathways and public transport. Good transport linkages contribute to a connected, vibrant and mobile community where all are able to safely and conveniently access services and facilities, and where dependence on private vehicles is minimised.

Objectives

- a) To provide an attractive residential street environment.
- b) To provide for the safe and efficient circulation of traffic.
- c) To provide for the safe and efficient movement of pedestrians with particular regard to the provision of clear and safe access routes for people who have a disability.
- d) To provide for efficient movement of local bus services and direct pedestrian access for all members of the community including those with disabilities.
- e) To form a system of permeable, compact and walkable neighbourhoods within a highly connected area.
- f) To provide safe, legible and efficient access based on the street network and augmented by connections through public open space.
- g) To link the site with its surroundings by connecting to external road networks, pedestrian and cycle paths, public transport routes and public open space networks.
- h) To create a new link road to provide alternative route for through traffic between Nuwarra Road and Newbridge Road.
- i) To increase the environmental sustainability of development by:
 - Reducing local vehicle trips, travel distances and speeds.
 - Maximising public transport effectiveness,.
 - Encouraging walking and cycling.
 - Enabling the operation of viable bus routes.
- j) To guarantee adequate accessibility for emergency vehicles.
- k) To ensure appropriate accessibility to employment.
- l) To ensure servicing is able to be carried out appropriately.

Controls

1. The street network is to retain a predominantly grid-like form, facilitating walking and cycling and enabling direct local vehicle trips within the neighbourhood.
2. The street network is to embody the principles illustrated in the key street structure shown at Figure 2.
3. All streets are to be legibly signposted with street names and property numbers.
4. Street layouts at key locations are to be designed to ensure pedestrian safety.
5. Provide a new link road between Nuwarra and Newbridge Roads within a 30m wide road reserve from the north for the first 220m narrowing to 18m, designed in consultation with RTA and Council.

6. The link road shall be provided in accordance with the Developer Deed.
7. 3.5 m landscape strip (including footpath) located on east side of the new link road with up to 6m landscape strip on the western side adjacent to existing dwellings near Newbridge Road.
8. All streets are to be designed and constructed having regard to the cross-sections illustrated at Figure 3.
9. All intersections are to be designed generally in accordance with the RTA Austroads Road Design Guide.

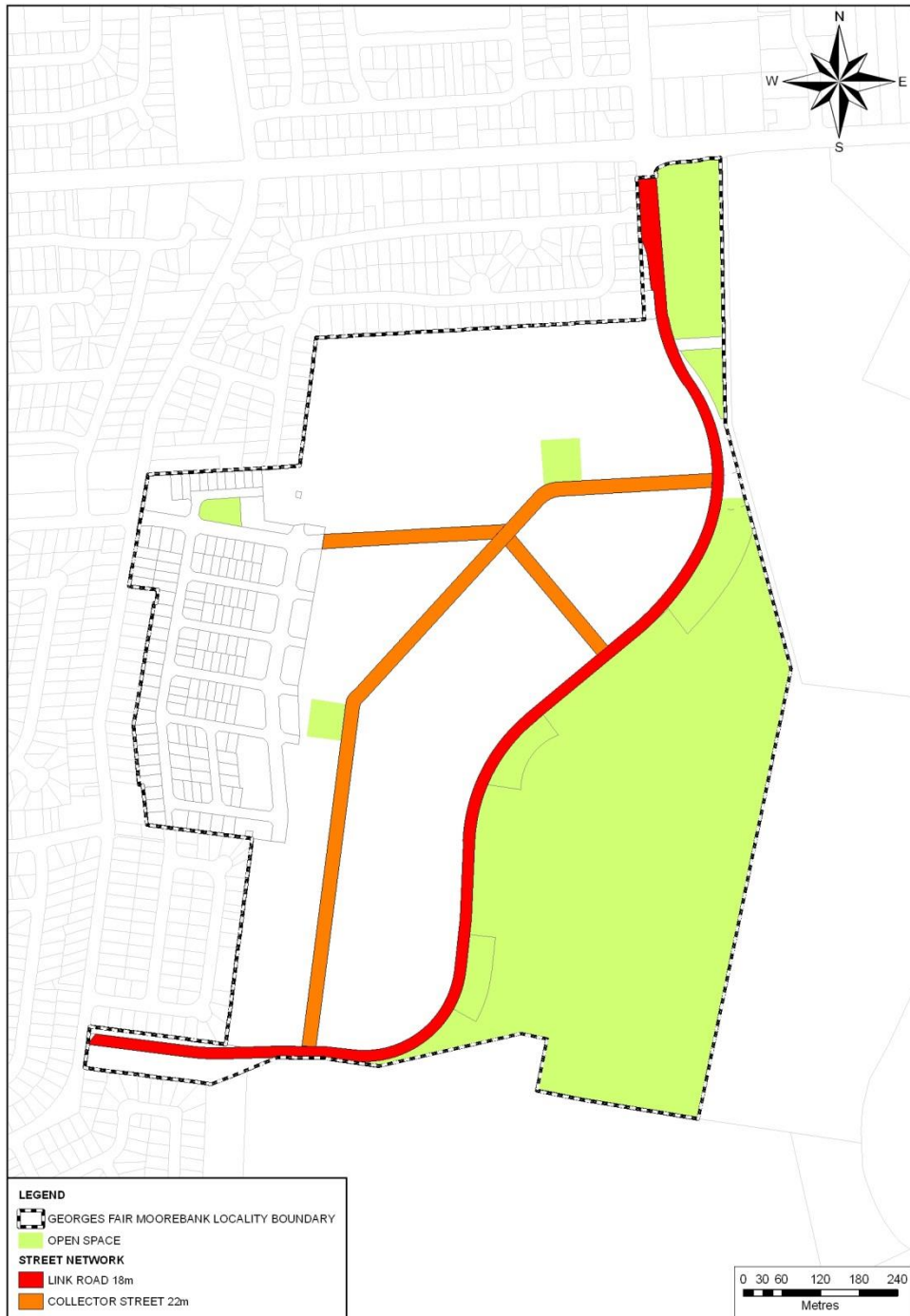


Figure 2 Preferred key street network for the site

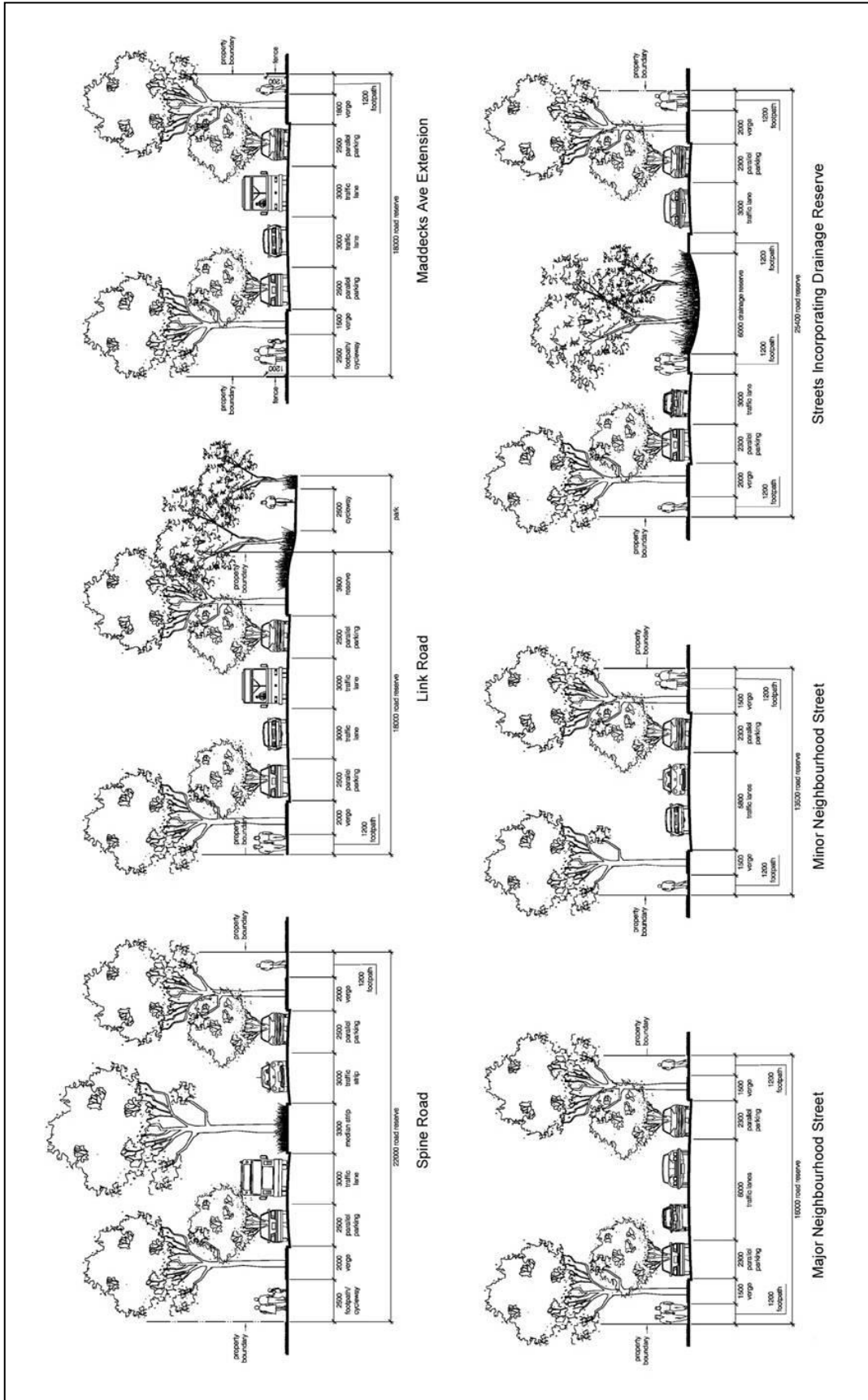


Figure 3 Preferred Street Sections

2.2 Pedestrian and Cyclist Networks

Background

Pedestrian and cycle facilities in public spaces are to be safe, clearly defined, functional and accessible to all. They should provide linkages to social and cultural activities and educational facilities, and should be characterised by excellence of design appropriate to the area.

Vehicle crossings over footpaths need to be managed and minimised to ensure that they do not detract from the quality of the public domain, disrupt pedestrian or cycle movement, or threaten user safety.

Objectives

- a) To encourage walking and cycling as opposed to the use of private vehicles for local trips.
- b) To provide a permeable and interconnected network of streets and pathways that gives safe, convenient and legible access both within and beyond the site.
- c) To minimise and prevent, where possible, vehicular crossings over a pedestrian or cyclist pathway.

Controls

1. Vehicle access to developments is to be designed and located to minimise conflicts with pedestrians and cyclists on footpaths, particularly along high volume pedestrian streets.
2. Wherever practicable, vehicle access to developments is to be a single crossing, perpendicular to the kerb alignment.
3. Where practical, pedestrian and cycle paths in open space areas should be located close to streets on the edge of open spaces to take advantage of street lighting and allow casual surveillance by residents and drivers. Where this is not practical, paths should be well-lit and visible from the road.
4. Pedestrian and cycle paths are to link the key facilities within and outside the area, such as the open space network.
5. Shared pedestrian/cycle links, cycle ways, public roads and lanes are to be clearly and frequently signposted to indicate their shared status.
6. Designated cycle lanes on streets are to be clearly indicated by line-markings on the road surface and/or by signs beside the road.
7. Pedestrian routes and cycle paths are to be designed and located having regard to the principles illustrated in Figure 5.
8. Shared pedestrian and cycle paths are to be a minimum 2.5m wide.
9. Designated pedestrian-only paths are to be a minimum of 1.5m wide and provided to both sides of each street / road.
10. Pedestrian and cycle facilities in public spaces are to be safe, well lit, clearly defined, functional and accessible to all.
11. Pedestrian and cycle paths, and pedestrian refuge islands are to be designed to be fully accessible by all in terms of access points and gradients, in accordance with AS 1428:1 - 4.

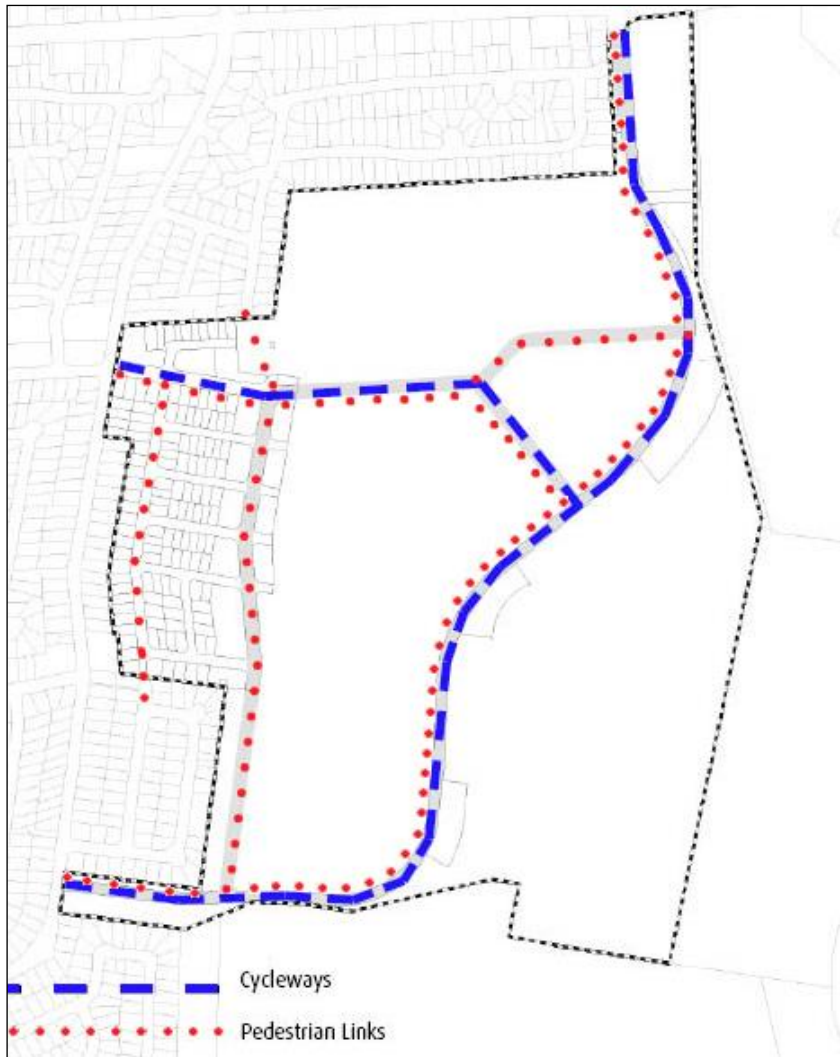


Figure 5 Location of potential walking and cycle ways

2.3 Streetscape and Street Trees

Background

Street furniture should maximise pedestrian comfort, convenience and amenity, create visual harmony and be used to define spaces, streets, paths and gateways. Opportunities for public art in significant public domain locations should be explored as part of the development process.

Objectives

- a) To create a sense of identity for the area.
- b) To enhance public spaces so that they are vibrant, safe and welcoming.
- c) To facilitate cultural identity through art and design in public places.
- d) To create quality streetscapes that is visually attractive and integrates with surrounding street layout.

Controls

1. Street furniture is to be incorporated into the design of all public spaces and should be consistent in design and style.

2. Street furniture is to be located so as not to impede mobility, generally in accordance with *AS 1428:1 - 4*.
3. The location and detailing of all proposed street furniture is to be indicated on the Landscape Plan, to be submitted with the DA.

Street Tree Planting

1. Street trees shall be required to be planted in conjunction with the creation of a new street or the extension of an existing street.
2. One tree is to be provided for every dwelling facade. These are to reach at least 4 m at mature height.
3. The street trees shall be planted prior to the release of the subdivision certificate.
4. The trees shall be provided with protection to ensure their survival during the construction of buildings in the street. Refer to Figure 6 for details.
5. Trees and shrubs on individual streets must be of a uniform species. On streets adjacent to bushland, species indigenous to the area must be planted.

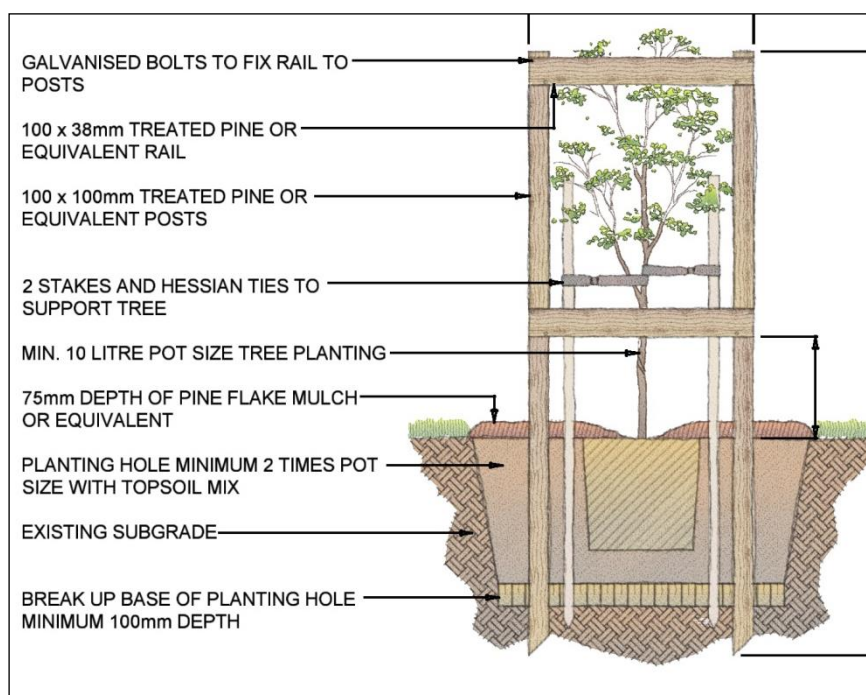


Figure 6 Tree Guard and Planting Details

2.4 Open Space

Background

Public spaces can be designed to promote vibrant social interaction, civic pride and a sense of public ownership and belonging. Landscaped areas and open space within the public domain play a major role in setting the character of the locality. These areas should make the neighbourhood pleasant and welcoming and be convenient to the needs of the community, especially in higher density areas.

Objectives

- a) To ensure adequate provision and distribution of public open space to meet the needs of the residents.
- b) To retain and integrate existing landscape elements, such as vegetation and topographic features, in the design of new development.

- c) To provide links between the open space areas and community and retail facilities.
- d) To create a variety of public spaces which fulfil functional requirements as well as create attractive and memorable places.
- e) To retain and integrate existing landscape elements, such as vegetation and topographic features, in the design of new development; integrate landscaping with water cycle management across the development area.

Controls

1. The locality is to provide a variety of parks with a distinct landscape character. Subdivision of land shall provide open space as shown in Figure 7.
2. The provision of Open Space is to be in accordance with the Developer Deed.
3. Neighbourhood and playground parks are to create a precinct focus.
4. Public open spaces are to be designed and landscaped so as to minimise the need for maintenance. This is to be achieved through the use of appropriate native species (refer to Appendix 2 in Part 1). The Landscape Plan submitted with the DA must demonstrate how the proposed landscaping will minimise maintenance.
5. Public open space should be bounded by public streets with buildings oriented towards the open space.
6. Significant existing trees, tree stands and vegetation are to be retained, relocated or replaced by the same species.
7. Pedestrian and cycle paths must be provided as part of parks and recreation areas.
8. Street name and information signs are to be designed to reinforce the distinct identity of the locality and to facilitate accessibility and mobility.
9. The design of fences must be consistent throughout the public domain, parks and open space.
10. A Landscape Plan must be lodged with all DAs.

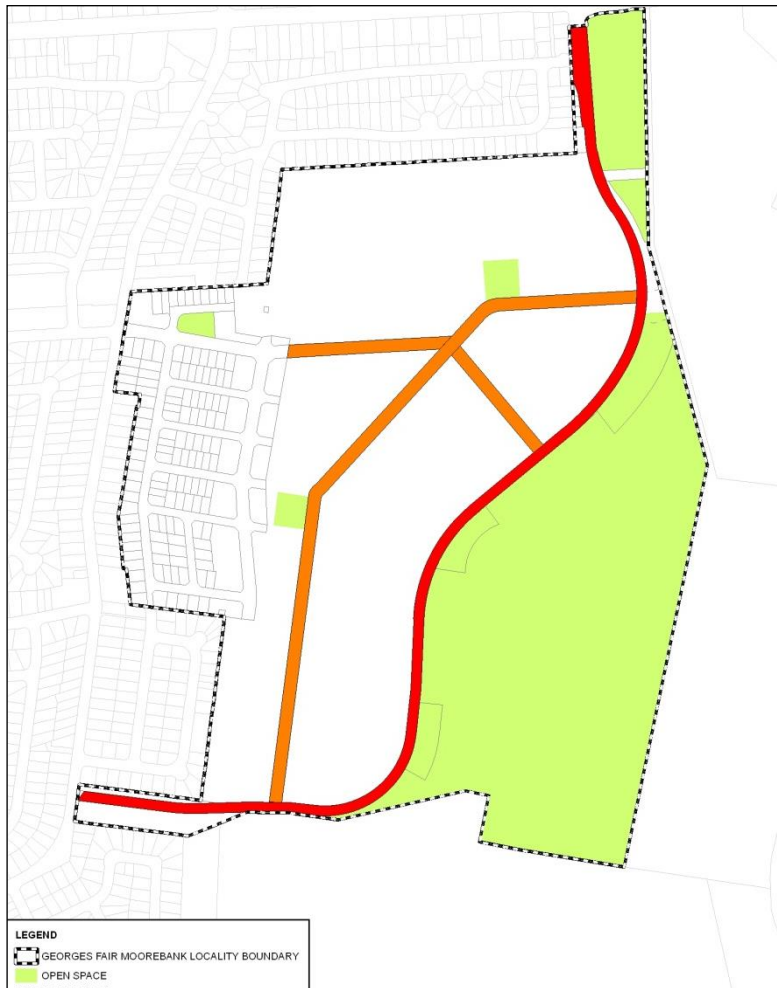


Figure 7 Indicative locations of local open space areas

2.5 Water Cycle Management

Objectives

- a) To integrate water management measures with innovative urban design.
- b) To ensure that there are no adverse impact on existing flood regimes in the surrounding areas, as a result of the proposed development.

Controls

1. Consider the use of bio-retention swales in road verges and maximise runoff flow onto grassed areas where feasible.
2. Use gross pollutant traps and water quality control ponds to remove suspended sediment, nutrients and bacteria. The gross pollutant traps and water quality control ponds are to be located in the areas zoned R3 - Medium Density Residential or before discharging into land zoned C3 - Environmental Management.
3. Where feasible, divert excess run-off from southern section of the Georges Fair Moorebank Land to New Brighton Golf Course for irrigation, subject to the agreement of the Golf Club.
4. The provision of Drainage works shall be provided in accordance with the Developer Deed.

3. Controls for the Private Domain

3.1 Subdivision, Frontage and Allotment Size

Background

The main objective is to provide choice through a mix of housing types and high quality open space. Opportunities for higher density are provided in places of greatest amenity.

The orientation of lots should be designed to maximise solar access to reduce household energy consumption and to make best use of the land available.

Objectives

- a) To provide a range and mix of lot sizes to suit a variety of dwellings types distributed throughout the area.
- b) To locate higher density in places of greatest amenity, such as near parks, other open spaces and along transport nodes.
- c) To ensure that the density of development and siting of dwellings maintain a high standard of privacy.
- d) To ensure lots are oriented to optimise solar access to facilitate micro-climate management, including the application of energy conservation principles.
- e) To ensure all dwellings address the street.
- f) To ensure that lot size and dimensions take into consideration the physical characteristics of the land, in a way which promotes retention of existing vegetation and reduces the incidence of damaging earthworks and retaining wall construction.
- g) To ensure passive surveillance of public space through the effective and functional layout designs of new developments.
- h) To ensure that the dwelling siting minimises impacts on views from adjacent existing residential development.

Controls

1. Subdivision, lot sizes and orientation are to address the principles in Figures 8 and 9.
2. Lot sizes and dimensions are to take into account the slope of the land to minimise earthworks/retaining wall construction and the retention of existing trees.
3. Minimum allotment width is 8 m.
4. Any application for subdivision creating allotments of 10m width must be accompanied by an application for a dwelling house on each of those allotments.
5. On east-west lots, houses and private open space are to be sited generally in accordance with Figure 11.

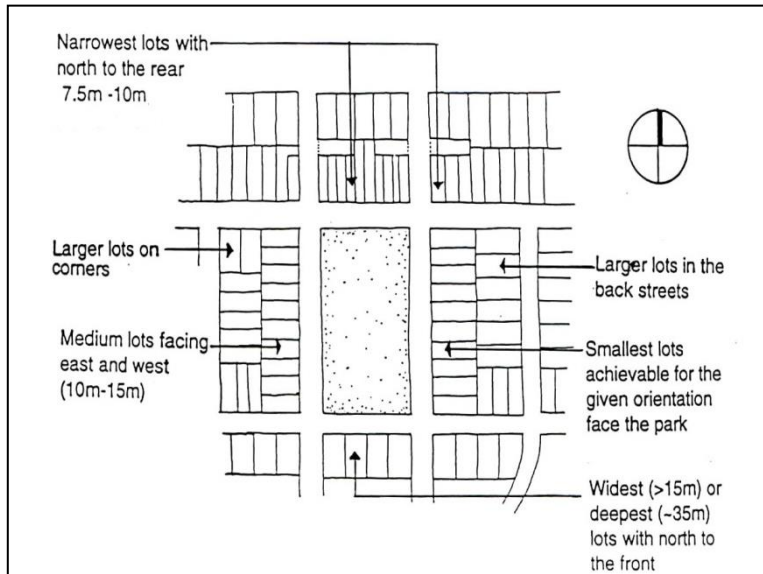


Figure 8 Highest density generally located in accessible places with highest amenity

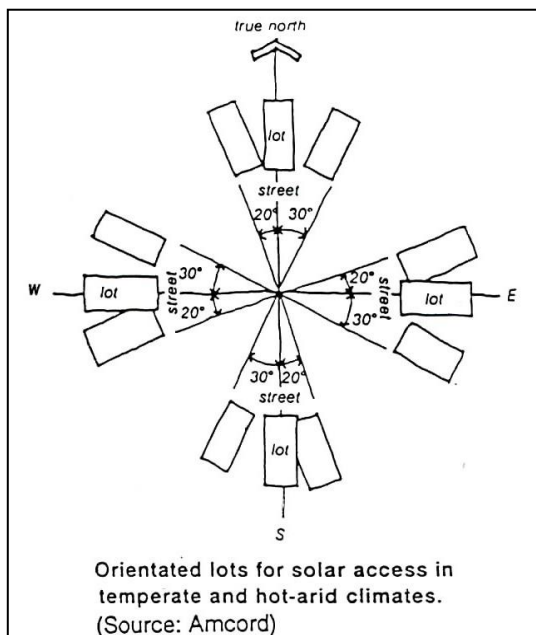


Figure 9 Lot Orientation

Interface areas

1. Only detached dwelling houses are permitted in the interface areas.
2. No new dwelling should fully obstruct views from living areas of existing neighbouring dwellings (see Figure 10).
3. Refer to Liverpool LEP 2008 for the minimum allotment size in the interface area.



Figure 10 Interface Areas

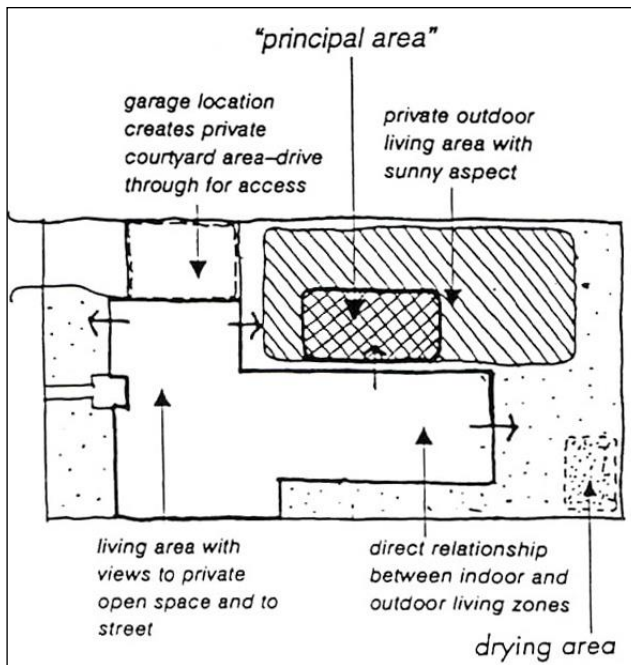


Figure 11 Private open space considerations on an east-west lot

3.2 Site Planning

Objectives

- a) To ensure that the dwelling house is sensitive to site attributes, such as streetscape character, natural landform, drainage, existing vegetation, land capability, slope, solar access and if relevant, heritage items.
- b) To ensure privacy for residents and neighbours.

Controls

1. The dwelling layout must be designed around the site attributes such as slope, existing vegetation, land capability and/or solar access (See Figure 12).
2. There must be a direct link from at least one living area to the principal private open space.
3. The siting of windows of habitable rooms on the first floor shall minimise overlooking to the principal private open space of neighbouring properties.
4. Stormwater from the site must be able to be drained satisfactorily. Where the site falls away from the street, it may be necessary to obtain an easement over adjoining property to drain water satisfactorily to a Council stormwater system. Where stormwater drains directly to the street, there may also be a need to incorporate on-site detention of stormwater where street drainage is inadequate. Refer to Water cycle management in Part 1.

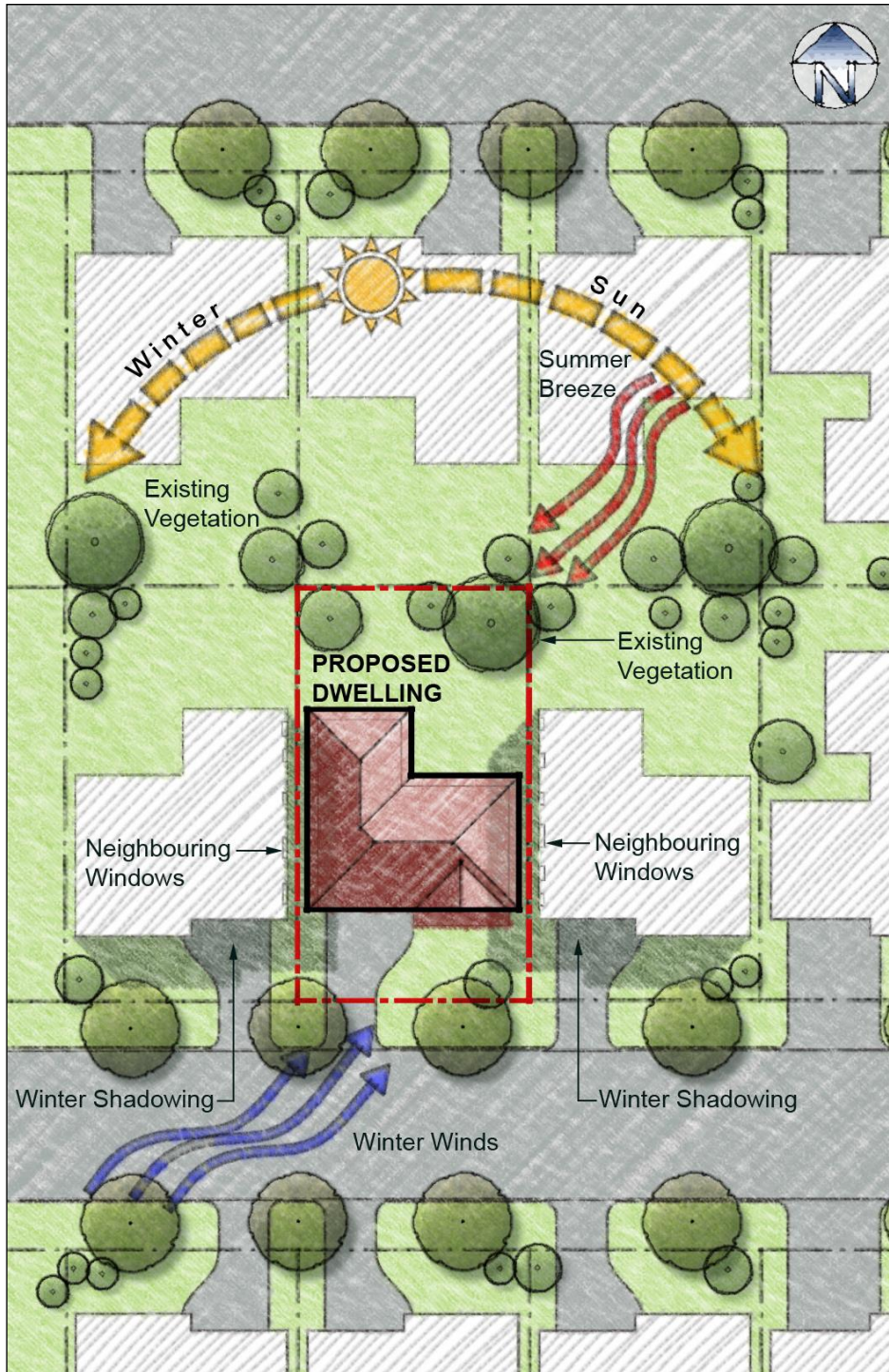


Figure 12 Site Analysis

3.3 Setbacks

Front and Secondary Setbacks

Objectives

- a) To ensure appropriate front setbacks.
- b) To contribute to the creation of attractive and memorable streetscapes that has a consistent character.
- c) To reduce the potential visual effects of garages on dwelling facades and streetscapes.
- d) To provide adequate space for landscaping or open space.

Controls

1. Dwelling houses shall be setback in accordance with Table 1.

Table 1 Front and Secondary Setback

Height	Front Setback	Secondary Setback
Ground floor	4.0 m	2.5 m
First floor	4.0 m	2.5 m

2. Garages must be set back a minimum of 1 m behind the main face of the dwelling. (The main face is the first wall of a habitable room)
3. A front verandah, porch, patio, pergola or similar can be built to within 2.5 m of the front boundary.
4. Street setback for all garages is a minimum of 5.5 m.
5. Corner sites shall provide a frontage to both streets and should articulate their corner location with an architectural feature such as a wraparound verandah, bay window, corner entry or roof feature. A minimum setback of 1 m is required for the splay corner.

Side and Rear Setbacks

Objectives

- a) To maximise private amenity within the building.
- b) To minimise the impacts of development on neighbouring properties in regard to views, privacy and overshadowing.
- c) To ensure that buildings are sited so as to provide for solar access and both visual and acoustic privacy.

Controls

Buildings shall be setback from the side and rear boundaries in accordance with Table 2.

Table 2 Side and Rear Setbacks

Item	Side Setback	Rear Setback
Single storey dwelling houses	0.9 m	5.0 m
Second storey component of dwelling houses	1.2 m	5.0 m
Side walls containing windows to habitable rooms	1.2 m	N/A
Dwellings in interface area (shown on Figure 10)	As above	10.0 m

Notes: Elements such as fascias, gutters, downpipes, eaves (up to 450mm wide), chimneys, flues and pipes may encroach into the side setback.

Council may consider a variation (outside of the interface areas only) if justification can be provided for a better design outcome for the proposed dwelling and neighbouring dwellings.

- Building encroachments may only occur if it is seen as beneficial for open space, solar access and the internal layout of the dwelling. The dwellings living areas should open out to open space.
- A patio / outdoor eating area may extend into the rear setback provided a minimum setback of 1m to the rear and side boundary are maintained; and
 - The patio area may have a maximum area of 20sqm.
 - The patio area cannot have solid or masonry walls.

Zero lot lines

1. Walls are generally to be 180mm clear of the side boundary to allow for gutter and eaves overhang.
2. The length of a zero lot line wall is limited to 50% of the adjacent side wall boundary.
3. No windows are permitted in a zero lot line wall.
4. A maintenance easement of at least 900mm shall be provided on the adjoining boundary. Refer to Figure 13.

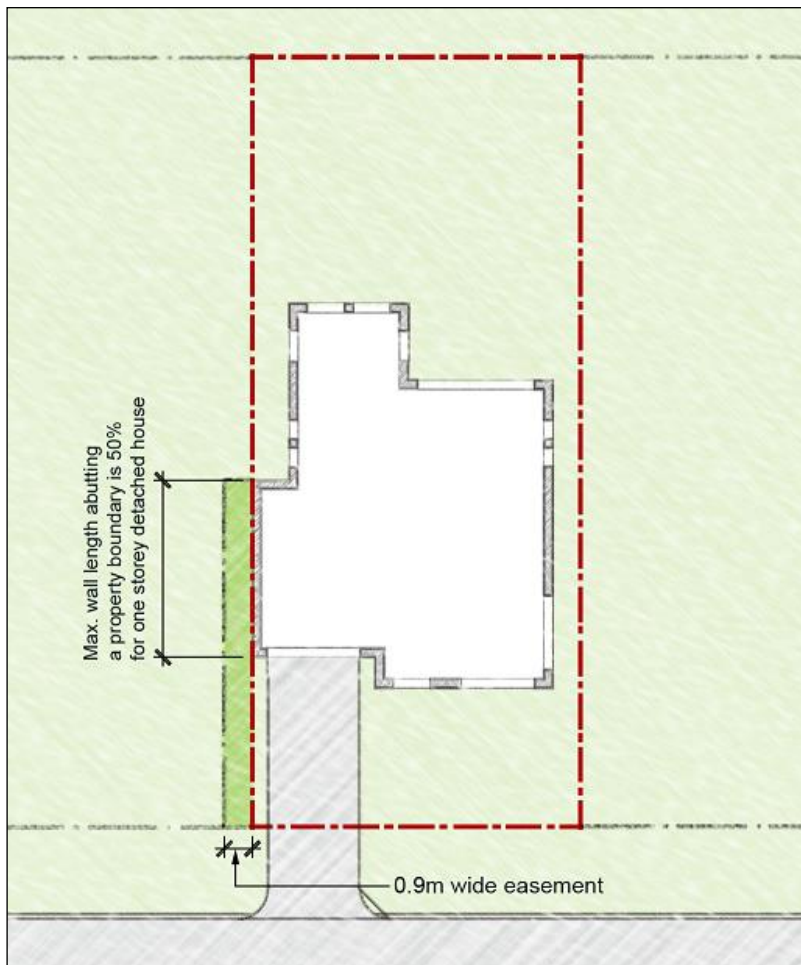


Figure 13 An example of zero lot line with Maintenance Easement

3.4 Landscaped Area and Private Open Space

Landscaped area is defined in Liverpool LEP 2008.

Private open space is an area within the site (usually at the rear) that is set aside for outdoor activities. Clotheslines, BBQ areas, pergola (unroofed structure), patio, garden sheds and pools can be included in the private open space.

Principal Private open space is an area that is directly accessible from at least one living room and is included in the private open space calculations (the principal private open space area may be paved or sealed).

Landscaped Area

Objectives

- To provide an area to allow vegetation to mature.
- To reduce the impact to neighbouring properties and natural waterways from stormwater runoff.
- To reduce the amount of impervious areas.
- To enhance the existing streetscape and soften the visual appearance of the dwelling.
- To maximise the amount of landscaped area within the front setback of the dwelling.

Note: All proposed developments require a landscape plan to be submitted with the development application.

Controls

1. A minimum of 25% of the site area shall consist of Landscaped Area, this may include lawn, deep rooted trees, garden beds and mulched areas.
2. A minimum of 50% of the front setback area shall be Landscaped Area.
3. A minimum unincumbered area of 3 x 3m shall be provided in the front setback to accommodate deep rooted trees.

Private Open Space

Objectives

- a) To ensure that a minimum amount of Private Open Space is provided for outdoor activities.
- b) To ensure that Private Open Space is clearly defined for private use.
- c) To ensure that Private Open Space is private, landscaped, screened from overlooking and receives an adequate amount of solar access.

Controls

1. Each dwelling must provide a minimum of 50sqm of Private Open Space.
2. Areas less than 2.5m in width does not qualify as Private Open Space.
3. Private Open Space areas are not permitted within the primary street setbacks.
4. Private Open Space must have an area for clothes drying with at least 2 hours of full sun between 9.00am and 5.00pm at 21 June.
5. The Private Open Space shall include the principal private open space of 25sqm, which is directly accessible from the main living area and has a minimum dimension of 4m.
6. The Principal Private Open Space must receive a minimumk of 3 hours of sunlight between to at least 50% of the area between 9:00am and 5:00pm on 21 June.
7. Where the Principal Private Private Open has a predominately northen aspect Clause 6 (above) does not apply.

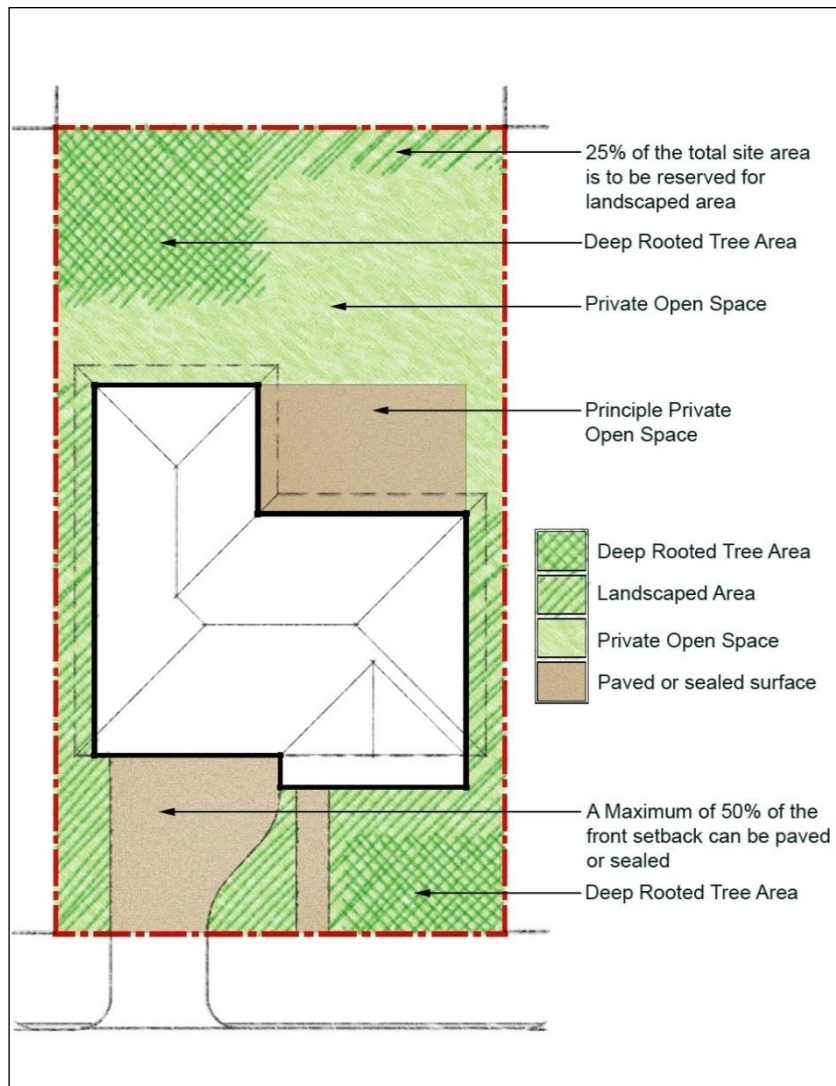


Figure 14 Landscaped Area

3.5 Cut and Fill, Building Design, Streetscape and Layout

Cut and Fill of Land

Objectives

- a) To reduce the incidence of change in natural ground levels.
- b) To encourage the architectural designs of dwellings which suit the contours of the land.
- c) To provide controls for cut and fill of land designed to minimise the incidence of soil erosion and subsequent sedimentation of waterways.
- d) To ensure that development on adjoining properties is not threatened or prejudiced by proposed cut and fill practices.
- e) To discourage and eliminate, where possible, the construction of retaining walls on allotment boundaries.
- f) To minimise overshadowing of neighbouring dwellings, their private open space or any solar panelling.

Controls

1. The maximum cut on a site must not exceed 600 mm.
2. All retaining wall structures shall be masonry construction and designed by a suitably qualified person, or constructed as specified by the manufacturer of the product. The retaining wall shall be constructed wholly inside (within) the boundary of the site.
3. All slab constructions for dwellings that are above natural ground level are to be constructed using dropped edge beams to retain fill. The maximum fill within the confines of the slab must not exceed 1 m. All fill must be contained within the dwelling footprint. Refer to Figure 15.
4. Contaminated fill, either imported or found on site is not permitted.

Note: In the event of approval being granted to the erection of retaining wall(s) to contain proposed cut, Council will require the completion of such retaining wall(s) PRIOR TO the release of the occupation certificate.

5. Where an applicant considers that an allotment has characteristics which warrant exemption from this policy, an application for exemption may be made by the submission of a development application to Council for consideration. In addition to normal requirements the submission should include:
 - A plan showing existing contours (at 0.5 m intervals) of the subject site and all adjoining sites.
 - A plan showing future contours (after proposed cut and fill) of the subject site and all adjoining sites.
 - Full details of any proposed retaining wall(s).

Note: In the event of approval being granted to the erection of retaining wall(s) to contain proposed cut and fill, Council will require the completion of such retaining wall(s) PRIOR TO the commencement of any building works.

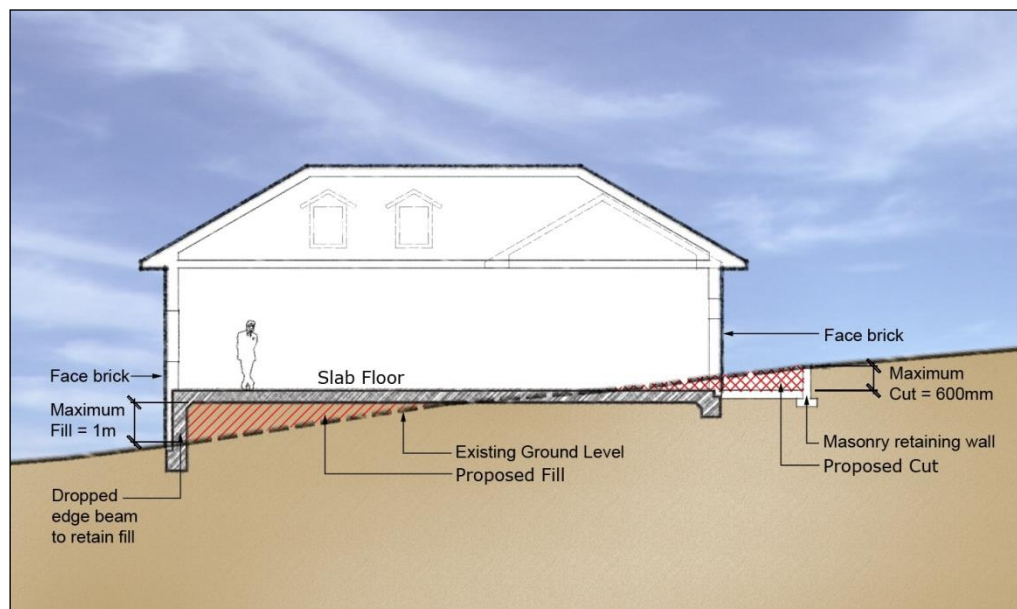


Figure 15 Cut and Fill requirements for a dwelling

Interface areas

Background

The areas identified in Figure 11 are interface areas. These areas are particularly sensitive due to their relationship to existing dwellings on the perimeter of the site and local topography.

Objectives

To provide housing types that relate to existing housing.

Controls

1. Only dwelling houses are permitted in the interface areas.
2. No new dwelling should fully obstruct views from living areas of existing neighbouring dwellings (see Figure 16).

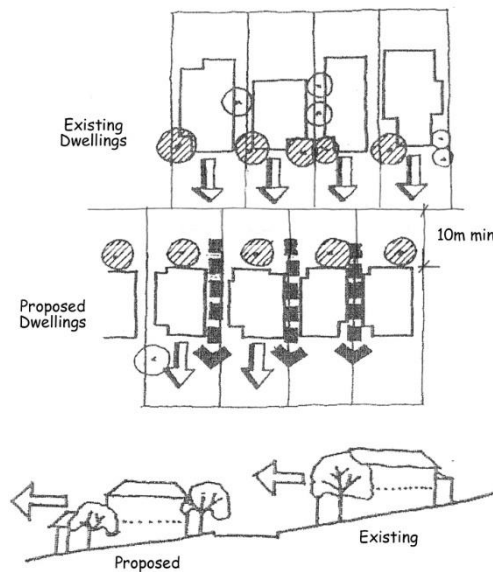


Figure 16 View Sharing

Building Design and Appearance

Objectives

- a) To encourage designs that will enhance the character of the neighbourhood.
- b) To promote variation of building facade and design.
- c) The building enhances the streetscape through the use of suitable built form design and landscaping.
- d) To ensure buildings address all street frontages.
- e) To discourage garages and in particular garage doors, from visually dominating the streetscape.
- f) To ensure that the building design, detailing, colour and finish shall add visual interest to the street and shall compliment the street.
- g) To ensure habitable rooms address the street.
- h) To encourage balconies over garages in two storey dwellings.

Controls

Dwellings

1. All dwellings are to be orientated to the street (See Figure 17).
2. The front pedestrian entrance must be visible from the street.
3. The front Building facades shall be articulated, this articulation may include front porches, entries, wall indents, changes in finishes, balconies and/or verandahs.
4. For two storey developments, the side walls shall be articulated if the wall has a continuous length of over 10m.
5. Eave overhang must provide for sun shading and protect windows and doors. Eaves should have a minimum overhang of 400mm and be provided to a minimum of 70% of the dwelling.
6. Dwellings that face two street frontages or a street and public space must address both frontages by the use of verandahs, balconies, windows or similar modulating elements.

Two storey dwellings

7. To break up the bulk of two storey dwellings balconies built above garages are encouraged (See Figure 17).

Garages and Carports

8. The maximum width of garage doors or carports must be no greater than 50% of the building frontage width.
9. Garages and carports must be designed to be the minor element of the façade.
10. Garage roofs shall be incorporated into the roof design of the house. Separate roofs for garages are discouraged, unless actually separated from the dwelling.
11. Garages and carports are to be compatible with the building design in terms of height, roof form, detail, materials and colours.
12. Carports may be built in front of the garage only if the carport is:
 - No larger than 5.5 x 6m.
 - Built of a similar colour and materials of the house.
 - Setback 2m from the front property boundary.
 - Compatible with the local streetscape.
13. The conversion of garages to living space may only be permitted if:
 - At least one car parking space is provided behind the front setback.
 - The additional living area does not result in the building exceeding the maximum permitted floor space ratio.



Figure 17 Example of Building Appearance (Indicative Only – Not to Scale)

Internal Design of Dwellings

Objectives

- a) The internal design must contribute to personal safety and to the protection of property by permitting casual surveillance of public spaces from private windows and entries.
- b) To provide passive surveillance from rooms addressing the street or any adjoining open space.
- c) To locate amenity rooms (such as laundries, bathrooms, toilets) to the side and rear of the development.
- d) To encourage the internal design of the dwelling to take advantage of cross ventilation.
- e) That each dwelling shall provide a sufficient amount of storage for elements such as garden and sports equipment.

Controls

1. All dwellings shall have habitable rooms located to the front of the dwelling for security and surveillance to the street.
2. Living rooms should take advantage of northern aspects.
3. Access to private open space must be from at least one living room.
4. The internal layout of the dwelling is encouraged to incorporate cross ventilation.
5. Bathrooms, ensuites, laundries and walk in wardrobes should be located to the side or rear of the dwelling.
6. Each dwelling must provide a minimum storage area of 8m³.
7. Locate active use rooms or habitable rooms with windows overlooking communal/public areas (e.g. playgrounds, gardens).
8. The main living area must receive at least 3 hours of sunlight between 9.00am and 5.00pm on 21 June.

3.6 Landscaping and Fencing

Objectives

- a) To retain existing mature trees within the site in a way which ensures their ongoing health and vitality.
- b) To provide privacy, summer shade and allow winter sun.
- c) To enhance the existing streetscape and visual appearance of dwellings.
- d) To encourage landscaping that is appropriate to the natural, cultural and heritage characteristics of its locality.
- e) To ensure the visual impact of development is minimised and integrated into the streetscape.

Controls

1. A minimum of one tree is to be provided within the front setback area of every residential dwelling. This may include existing trees that are to be retained within the front setback area. Newly planted trees are to have a minimum pot size of five litres.
2. Trees planted on the northern side of private open space and habitable rooms are to be deciduous.

3. Planting of vegetation at the front of higher density development must consider the need for passive surveillance. Excessively dense vegetation that creates a visual barrier must be avoided.
4. Any tree with a mature height over 8 m should be planted a minimum distance of 3 m from the building or utility services.
5. A landscape plan must be lodged with all Development Applications, and is to provide the following details:
 - The location of any existing trees on the property, specifying those to be retained and those to be removed.
 - The location of any trees on adjoining properties that are likely to be damaged as a result of excavations of other site works.
 - The position of each shrub and tree species proposed to be planted. Each plant is to be identified by a code referring to a plant schedule on the plan.

Fencing

Objectives

- a) To provide a clear transition between public and private areas.
- b) To provide a visual element within the streetscape.
- c) To ensure fencing enhances the streetscape.

Controls

1. Wall finishes must have low reflectivity.
2. Where noise insulation is required, consider the installation of double-glazing or other noise attenuation measures at the front of the building rather than construction of a high solid form fence.

Primary Frontage

1. The maximum height of a front fence is 1.2m.
2. Fences should not prevent surveillance by the dwelling's occupants of the street or communal areas.
3. The front fence must be 30% transparent. (see Figure 18)
4. Front fences shall be constructed in masonry, timber and/or vegetation and must be compatible with the proposed design of the dwelling.
5. The maximum height of the front fence is 1.2 m.

Secondary Frontage

1. Side fences and walls must be a maximum of 1.8 m in height, and constructed of masonry, timber and/or landscaped (see Figure 18).
2. For side walls or fences along the secondary frontage, a maximum height of 1.2 m is required for the first 9 m measured from the front boundary, the remaining fence / wall may then be raised to a maximum of 1.8 m (see Figure18). The secondary setback is the longest length boundary.
3. Side fencing facing a public street or open space must not be constructed of sheet metal.

Boundary Fences

1. The maximum height of side boundary fencing within the setback to the street is 1.2 m.
2. Boundary fences shall be lapped and capped timber or metal sheeting.

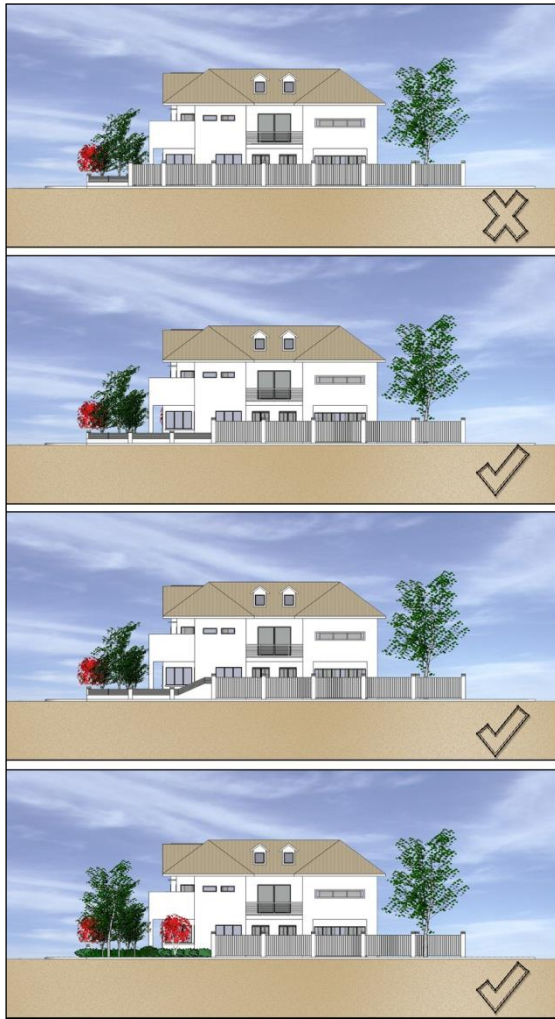


Figure 18 Fence types

3.7 Car Parking and Access

Car Parking

Background

The provision of on-site parking is required for all residential allotments. On-site parking is to be provided in a way that does not compromise the appearance of dwellings from the street.

Objectives

- a) To provide sufficient and convenient parking for residents and visitors.
- b) To ensure that parked vehicles do not create traffic or pedestrian hazards, and do not degrade landscaped areas such as grass verges.
- c) To reduce the visual impact of garages, carports and parking areas on the streetscape and improve dwelling presentation.

Controls

1. Two car parking spaces shall be provided for each dwelling.
2. At least one car parking space must be provided behind the front setback.
3. A car parking space is to have a minimum dimension of 2.5 x 5.5m.
4. A single garage is to be a minimum of 3 m wide internally and unobstructed.
5. All parking spaces for adaptable housing units shall comply with *AS 2890:1* for disabled car parking.

Internal Driveways

Background

Where private driveways are used they are designed to minimise their impact on the streetscape and on the environment.

Objectives

- a) To provide safe and convenient access to garages, carports and parking areas.
- b) To create a pleasant, low maintenance place.
- c) To ensure clearly defined public and private spaces, such that driveways are for the sole use of residents.
- d) To ensure casual surveillance of private driveways from dwellings and from the street
- e) To minimise conflict between pedestrians and vehicles at the junction of driveways and footpaths.

Controls

1. The driveway crossing the verge between the property boundary and the kerb is to have a maximum width of 5.5m.
2. Driveways are to have soft landscaped areas on either side, suitable for infiltration.
3. Private driveways are to have the smallest configuration possible to serve the required parking facilities and vehicle turning movements.
4. Private driveways are to be constructed as one of three general types, depending on block geometry and garages to be accessed. (See Figure 19).

5. Higher density development fronting to collector streets is to have rear access through laneways, car courts and the like. Developers are to identify opportunities for rear lanes parallel to collector streets.
6. Corner lots on collector streets are to have access from the street perpendicular to the collector street.
7. At the street entry, the driveway is to be landscaped to have low visual impact and be clearly distinguishable as private access only.
8. Landscaping at driveways should not block lines of sight for pedestrians, cyclists and vehicles.

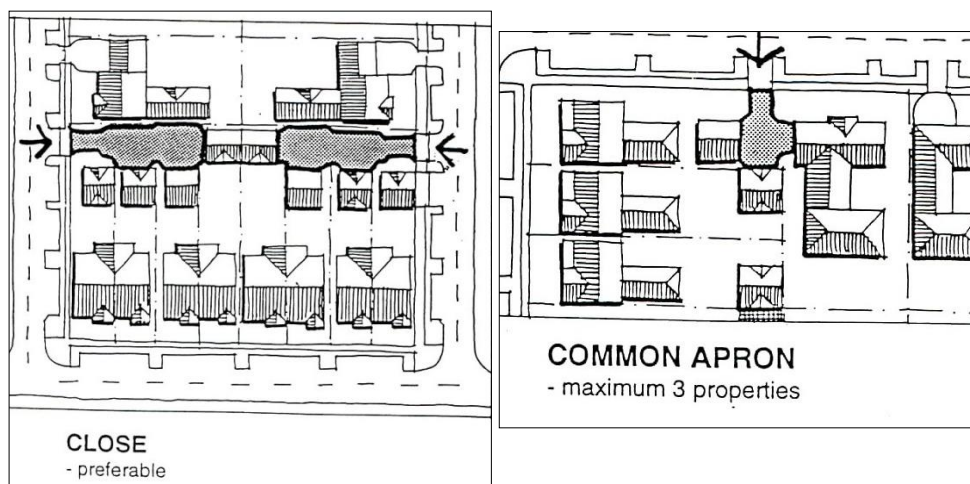


Figure 19 Examples of Internal Driveways

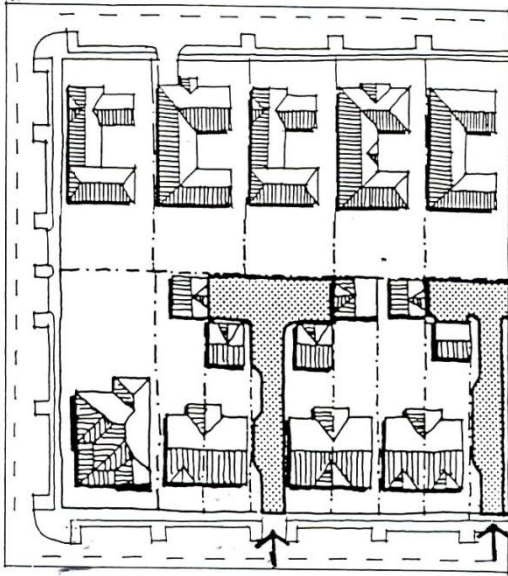
Private Driveways

Objectives

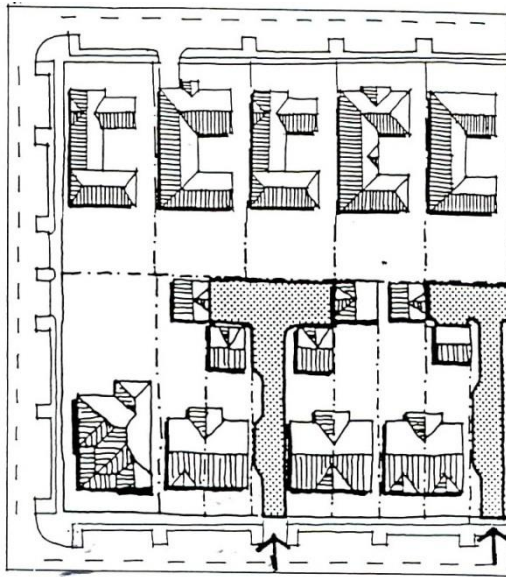
- a) To provide safe and convenient access to garages, carports and parking areas.
- b) To clearly define public and private spaces, such that driveways are for the sole use of residents.

Controls

1. Private driveways shall have the smallest configuration possible to serve the required parking facilities and vehicle turning movements.
2. Private driveways shall be constructed as one of three general types, depending on block geometry and garages to be accessed, as in Figure 20.
3. Higher density development fronting to collector streets shall have rear access through laneways, car courts and the like.
4. Development on corner lots on collector streets shall have access from the street perpendicular to the collector street.



- 2 T-SHAPED**
- driveway should be from the frontage road of the narrow lot dwellings
 - use where block geometry or available road frontage precludes 'close'



- 2 T-SHAPED**
- driveway should be from the frontage road of the narrow lot dwellings
 - use where block geometry or available road frontage precludes 'close'

TYPE 2 – T-SHAPED

- Driveway should be from frontage road of the narrow lot dwellings
- Use where block geometry or available road frontage precludes “close”.

Figure 20 Private Driveway Options

3.8 Amenity and Environmental Impact

Overshadowing

Objective

To minimise overshadowing of neighbouring dwellings and their private open space.

Controls

1. Adjoining properties must receive a minimum of three hours of sunlight between 9am and 5pm on 21 June to at least:
 - One living room, rumpus room or the like.
 - 50% of the private open space.

Privacy

Objective

To site and design buildings in a manner which protects the visual privacy of adjoining dwellings and their private open space.

Controls

1. Habitable room windows facing side boundaries are to be offset by at least 1 m from any habitable room windows in an adjoining dwelling (See Figure 21).
2. Habitable room windows on the first floor that face the side boundary are to avoid unreasonable overlooking by having a minimum sill height of 1.5m, except where they face a street or public open space (See Figure 21).
3. Building siting, window location, balconies and fencing must consider the importance of the privacy of onsite and adjoining buildings and private open spaces.
4. Landscaping should be used where possible to increase visual privacy between dwellings and adjoining properties.

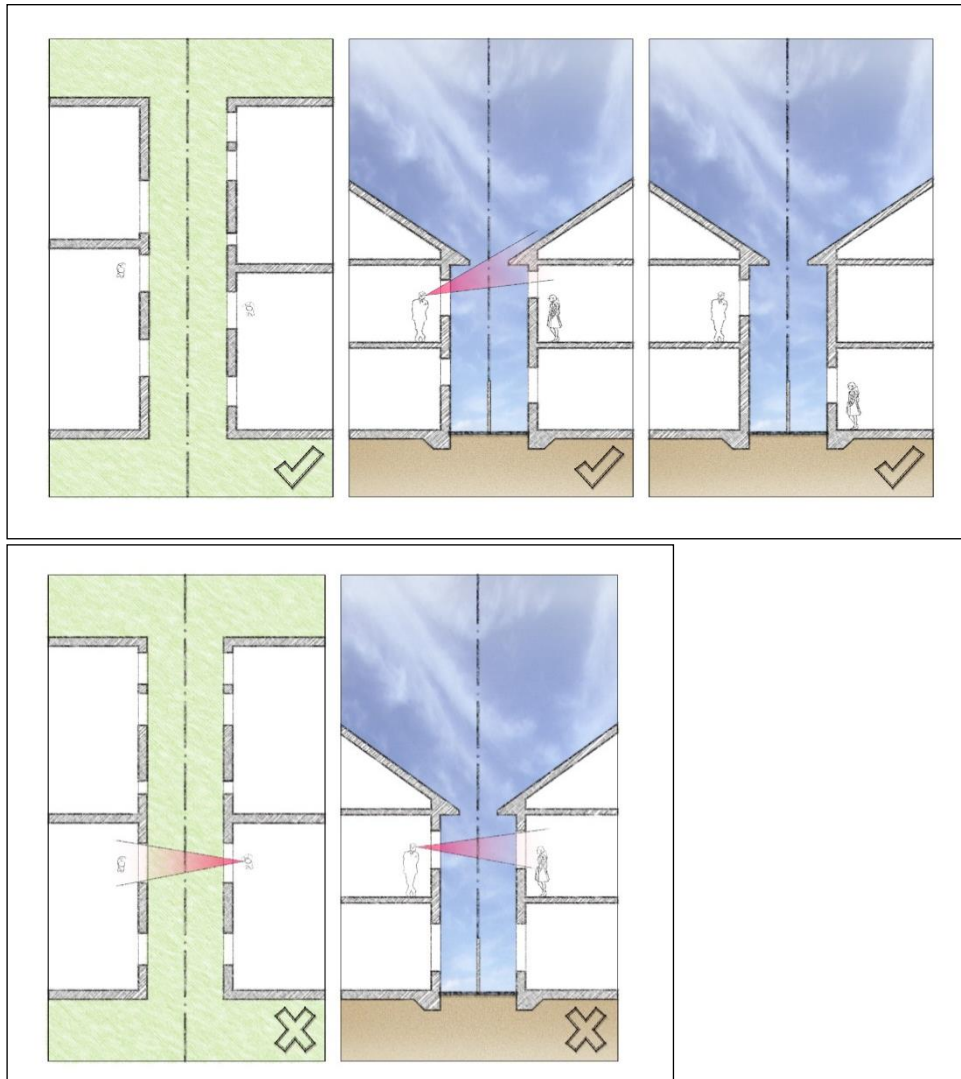


Figure 21 Privacy and Amenity

Acoustic Privacy

Objective

To ensure appropriate noise and vibration attention measures are incorporated into residential development.

Controls

1. Noise attenuation measures should be incorporated into building design to ensure acoustic privacy between on-site and adjoining buildings.
2. Developments in areas adversely impacted upon by traffic related noises must incorporate the appropriate noise and vibration mitigation measures into the design in terms of the site layout, building materials and design, orientation of the buildings and location of sleeping and recreation areas.
3. Where party walls are provided they must be carried to the underside of the roof and be constructed in accordance with *Part F5* of the *Building Code of Australia*.
4. The proposed buildings must comply with the *Environment Protection Authority* criteria and the current relevant Australian Standards for noise and vibration and quality assurance.

3.9 Site Services

Objectives

- a) To ensure that the required services are provided.
- b) To ensure that the services provided are easily protected or maintained.

Controls

Letterboxes

1. Letterboxes shall to be provided for each dwelling on site, easily accessible from the street, able to be securely locked and provided in accordance with Australia Post's requirements.
2. Freestanding letterbox structures should be designed and constructed of materials that relate to the main building.
3. Residential numbering should be attached to the letterbox so that it is clearly visible from the street frontage. Numbers should be 75mm in height, reflective and in contrast to the backing material.

Waste management

1. Waste disposal facilities shall be provided for development involving residential flat buildings or shop top housing. These shall be located adjacent to the driveway entrance to the site or at the rear if a rear lane is provided.
2. Any structure involving waste disposal facilities shall be located as follows:
 - Setback 1 m from the front boundary to the street.
 - Landscaped between the structure and the front boundary and adjoining areas to minimise the impact on the streetscape.
 - Not be located adjacent to an adjoining residential property.
 - Details of the design of waste disposal facilities are shown in Part 1.

Frontage works and damage to Council infrastructure

1. Where a footpath, road shoulder or new or enlarged access driveway is required to be provided this shall be provided at no cost to Council.
2. Council must be notified of any works that may threaten Council assets. Council must give approval for any works involving Council infrastructure.
3. Where there are no existing street trees in front of the site and contributions have not been collected for street tree planting it may be a condition of consent that street trees be provided in the footpath area immediately in front of the site.

Electricity Sub Station

In some cases it may be necessary to provide an electricity substation at the front of the development adjacent to the street frontage. This will involve dedication of the area as a public road to allow access by the electricity provider. The front boundary treatment used elsewhere on the street frontage

3.10 Secondary dwellings (Granny Flats)

Objective

To provide housing choice within a standard residential lot for the use of a separate dwelling within the existing title.

Controls

1. A Secondary dwelling can be a maximum of one storey high, unless the granny flat is above the garage facing a rear laneway, where the granny flat must be one storey high above the garage.
2. A Secondary dwelling should be attached to the main dwelling. However, Council may consider applications for detached granny flats on a merit base.
3. A Secondary dwelling should compliment the main dwelling design by using the same style of construction and a similar colour.

Note: Secondary dwelling will be included in the overall floor space ratio of a property, and only one Secondary dwelling is permitted per lot.



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