Lake Macquarie Development Control Plan 2014
– Revision 22

Part 5 – Development in Industrial, Business Park and Infrastructure Zones

Adopted 10 February 2020
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1 INTRODUCTION

Part 5 - Development in Industrial, Business Park and Infrastructure Zones applies to all development in the IN1 General Industrial, IN2 Light Industrial, IN4 Working Waterfront, B7 Business Park and SP2 Infrastructure zones.

This part is to be read in conjunction with Part 1 (Introduction) of DCP 2014, which outlines Council's general requirements for all developments and provides advice on the lodgement requirements for a Development Application. Part 1 also contains requirements for when an application seeks to vary a development control. Additionally, controls for specific land uses may apply depending on the type of development proposed. These controls can be found within Part 9 - Specific Land Uses of this DCP.

Furthermore, an Area Plan may apply depending on the location of the development. Area Plans contain area specific controls that need to be considered and can be found in Part 10 - Town Centre Area Plans, Part 11 – Heritage Area Plans and Part 12 - Precinct Area Plans of this DCP.

1.1 HOW TO USE THIS PLAN

LM DCP 2014 is the primary document used by Council's development assessment staff to assess development applications. Proponents of development will need to:

1. Determine the land use zone that applies to the development site (refer to LM LEP 2014);
2. Refer to the Parts of LM DCP 2014 that contain controls for the zone where the development is proposed (Parts 2 to 8);
3. Check if specific land use provisions apply to the proposed development (Part 9); and
4. Check if an Area Plan applies to the proposed development site (Parts 10, 11 or 12).

The development controls contained within each part and section, seek to achieve desired land use, conservation and/or built outcomes consistent with corresponding LM LEP 2014 zone objectives, and the aims in each part of LM DCP 2014.

Each part of LM DCP 2014 is structured to promote a development process where the site and context analysis informs the design of the development. Parts 2 to 8 of this DCP generally have the following main headings:

- **Introduction** – provides information about the particular part of the DCP, how to use the DCP and aims for development within the particular zone group.
- **Context and Setting** – outlines the site issues and environmental opportunities and constraints that need to be addressed in the development application.
- **Development Design** – provides Council’s detailed design related requirements.
- **Operational Requirements** – provides Council’s detailed requirements associated with the construction and ongoing operation of the development.

The detailed provisions of each sub-section in each part of LM DCP 2014 are presented as follows:

- **Objectives** – state what outcomes LMCC is seeking new development to achieve, and
- **Controls** – advise the requirements for achieving outcomes and the desired future character identified by the aims and objectives.

Additionally, Parts 2 to 8 contain the specific aims that LM DCP 2014 seeks to achieve. Where specific controls are not provided, the aims of each part will be used to provide direction for a merits based assessment of a development application.

For more information on how to use this document, please refer to Part 1 – Introduction.
1.2 ADDITIONAL CONTROLS FOR SPECIFIC LAND USES

If the development application relates to any of the following land uses, additional specific development controls must be considered in conjunction with controls in this part of the DCP. The detailed controls for these uses can be found in Part 9 of this DCP. Where a conflict exists between the controls within this part and a specific land use, the specific land use section prevails.

<table>
<thead>
<tr>
<th>Attached Dwellings</th>
<th>Multi Dwelling Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bed and Breakfast / Farm Stay Accommodation</td>
<td>Places of Public Worship</td>
</tr>
<tr>
<td>Secondary Dwelling</td>
<td></td>
</tr>
<tr>
<td>Dual Occupancy</td>
<td>Service Stations</td>
</tr>
<tr>
<td>Dwelling House</td>
<td>Sex Services Premises</td>
</tr>
<tr>
<td>Foreshore and Waterway Development</td>
<td>Signage</td>
</tr>
<tr>
<td>Health Consulting Rooms</td>
<td>Tourist and Visitor Accommodation</td>
</tr>
</tbody>
</table>

1.3 AIMS FOR DEVELOPMENT IN INDUSTRIAL, BUSINESS PARK AND INFRASTRUCTURE ZONES

Where controls are not provided for a particular circumstance, the following aims will be used to provide direction for a merits based assessment of a development application.

The aims of LM DCP 2014 for development in industrial, business park and infrastructure zones are:

1. To provide employment opportunities within the Lake Macquarie Local Government Area.
2. To encourage high quality development that improves the amenity and aesthetics of industrial, business park and infrastructure zoned land.
3. To encourage development that will support workers in their day-to-day needs, and provide a pleasant environment for workers and the broader community.
4. To ensure that foreshore development contributes to the visual amenity of the area, and maximises public access to the foreshore.
5. To ensure that buildings promote innovation in design, energy efficiency, materials reuse and water reuse.
6. To promote landscaping that retains existing vegetation.
7. To ensure development incorporates safe, effective, and convenient provision for servicing, parking, pedestrian, and vehicular access.
8. To minimise waste and ensure rehabilitation and control of any contaminated sites.
9. Minimise the impact of industrial development on adjoining residential zones.
2 CONTEXT AND SETTINGS

2.1 SITE ANALYSIS

Objective

a. To identify site opportunities, constraints, and prevailing characteristics of the locality.
b. To illustrate how a development responds to that site and its relationship with the locality.
c. To encourage good site planning, built form and landscape outcomes, informed by an understanding of the site and its context.

Controls

1. A Site Analysis Plan must be submitted that identifies the existing conditions relating to the subject site, and the surrounding land that may influence the design process.
2. The Site Analysis Plan must address:
   i. All relevant items as set out in the Site Analysis Guidelines; and
   ii. All relevant matters outlined below in section 2.2 to 2.18.
3. The Site Analysis Plan must provide a comprehensive view of the constraints and opportunities of the development site that will guide the design process.
4. The development application must clearly show that the constraints and opportunities identified in the Site Analysis Plan have been used to inform and resolve the development design.
5. An electronic 3D block model must be submitted for any development that is three or more storeys, or that has a Gross Floor Area of 2000m² or more. The model must clearly show the scale and form of the proposed development and its setting, from viewing points along the street, and from public open space, waterways and other significant vantage points.
6. Council may require an electronic model for smaller developments on sites with potentially high visual or physical impacts on the public realm.

Note: The detail of the Site Analysis Plan should be tailored to the site, and the complexity of the proposed development.

2.2 SCENIC VALUES

The Landscape Settings and Significant Natural Landscape Features Maps identify the Landscape Setting boundaries and the relevant Scenic Management Zone for each Landscape Setting. The maps are a guide to the scenic quality associated with lands within the City of Lake Macquarie and are contained within the Scenic Management Guidelines. The Scenic Management Guidelines provide supporting documentation to this DCP.

Objectives:

a. To ensure that the scenic values of the City are protected and enhanced.
b. To ensure that developments visible or adjoining the coastline, Lake Macquarie or ridgelines maintain and enhance the scenic value of these features.

Controls:

1. A landscape and visual impact assessment is required for development identified in Table 1 unless specified by Council. A landscape and visual impact assessment must be prepared in accordance with section 7.3 of the Scenic Management Guidelines.
Table 1 - Development requiring a landscape and visual impact assessment

<table>
<thead>
<tr>
<th>Type, category or impact of development:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Any designated, SEPP 14 or SEPP 65 development</td>
</tr>
<tr>
<td>• Any new development or alterations and additions resulting in a building</td>
</tr>
<tr>
<td>or structure equivalent to 4 storeys or more (in any zone), or a car</td>
</tr>
<tr>
<td>park of 2 or more storeys (in any zone)</td>
</tr>
<tr>
<td>• Telecommunication towers</td>
</tr>
<tr>
<td>• Substantial loss of native tree cover (land parcels of one hectare or</td>
</tr>
<tr>
<td>greater)</td>
</tr>
<tr>
<td>• Subdivisions (in any zone with 10 or more lots proposed)</td>
</tr>
<tr>
<td>• Waste or resource management facilities</td>
</tr>
<tr>
<td>• Recreation facilities (major)</td>
</tr>
<tr>
<td>• Cemeteries</td>
</tr>
<tr>
<td>• Freight transport facilities</td>
</tr>
<tr>
<td>• Service stations</td>
</tr>
<tr>
<td>• Removal of any tree on the Significant Tree Register</td>
</tr>
<tr>
<td>• Hospitals with more than 30 beds</td>
</tr>
<tr>
<td>• Educational facilities</td>
</tr>
<tr>
<td>• Any industrial or commercial buildings being more than 50 metres long</td>
</tr>
<tr>
<td>on any side, or being over 10 metres high</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location of development:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Any development that is; within 300m of the Mean High Water Mark of the</td>
</tr>
<tr>
<td>lake or coastal edge, or on a ridgeline and involves two or more of the</td>
</tr>
<tr>
<td>following:</td>
</tr>
<tr>
<td>o height equivalent to 3 or more storeys, or</td>
</tr>
<tr>
<td>o sloping site (10% or more), or</td>
</tr>
<tr>
<td>o requiring a combined cut and fill exceeding 2 metres, or</td>
</tr>
<tr>
<td>o a development footprint exceeding 2000m².</td>
</tr>
<tr>
<td>• Any building or structure in a public reserve having a footprint</td>
</tr>
<tr>
<td>exceeding 100m² or being over 10 metres high.</td>
</tr>
<tr>
<td>• Any development on a heritage item and/or development within a heritage</td>
</tr>
<tr>
<td>conservation area (apart from alterations and additions to existing</td>
</tr>
<tr>
<td>houses or new complying development houses)</td>
</tr>
<tr>
<td>• Any development within 300m of the Sydney-Newcastle Freeway (apart from</td>
</tr>
<tr>
<td>alterations and additions to existing houses or new complying development</td>
</tr>
<tr>
<td>houses)</td>
</tr>
</tbody>
</table>

2. Developments must be designed and sited to complement their location through:
   i. the retention of existing vegetation,
   ii. incorporating appropriate landscaping,
   iii. minimising cut and fill,
   iv. building design and articulation compatible with natural context, and
   v. colour and material selection,

3. For developments visible from the coastline, Lake Macquarie, and adjacent waterways, or from significant ridgelines, external finishes should be non-reflective and muted in tone.
2.3 GEOTECHNICAL

Objectives:

a. To minimise potential damage to buildings/structures resulting from land movement.

Controls:

1. A geotechnical report prepared by a geotechnical engineer must accompany an application for development within T1, T2, T3, T1A, T2A and T3A areas, and within zones T4, T5 and T6 where specified after a site inspection by Council. Council has discretion whether a geotechnical report is required for the following minor structures and will consider site conditions and the size and construction materials of the proposed structure:
   - Garages,
   - Carports,
   - Decks and the like,
   - Pergolas and the like,
   - Fiberglass swimming pools, and
   - Earthworks including excavation and/or fill not exceeding 1000mm in depth.

2. A geotechnical report prepared by a geotechnical engineer must accompany an application for development within T5 and T6 areas where the proposed building is greater than 2500m².

3. In areas not covered by council’s geotechnical area maps and where the slope of the land exceeds 10%, Council may require a Slope Stability Assessment (subject to a site inspection by Council staff).

Note: Where an application relies upon a geotechnical report prepared as part of a previous development approval, a geotechnical engineer must endorse the plans submitted with the application to confirm that the proposed development is consistent with the geotechnical report.

2.4 MINE SUBSIDENCE

Objectives:

a. To minimise risks to buildings and structures associated with potential mine subsidence.

Controls:

1. Where an application is made for the construction of a structure or building within a Mine Subsidence District, written concurrence must be obtained from the Mine Subsidence Board. Written concurrence should be obtained prior to the application being submitted to Council.

2. Written concurrence from the Mine Subsidence Board is not required for certain works that have deemed approval under the Mine Subsidence Board’s publication ‘A Guide for Council Staff’.

Note: Please refer to the Mine Subsidence Board’s ‘Surface Development Guidelines’ for important information.

2.5 CONTAMINATED LAND

Objectives:

a. To ensure that contaminated land is identified through appropriate investigations
b. To ensure that contaminated land at a site is appropriately and effectively remediated prior to development taking place.

Controls:

1. Where development is proposed on land identified as being potentially contaminated, a Preliminary Site Investigation Report must be prepared and submitted with the application for
development. Refer to Council's Policy for Managing Contaminated or Potentially Contaminated Land for further information.

2. Where contaminants are found within the site, a Detailed Site Investigation Report must be prepared and lodged with the development application.

3. Where a Detailed Site Investigation Report identifies the need for remediation, a Remedial Action Plan must be prepared and submitted with the application.

4. The site must be validated as suitable for its intended use prior to the issue of an occupation certificate.

**Note:** At discretion, Council may request a formal audit of contamination documentation by a site auditor accredited with the NSW Environment Protection Authority under the Contaminated Land Management Act 1997.

**Note:** Refer to SEPP 55 and the NSW State Governments ‘Managing Land Contamination: Planning Guidelines’ for more information.

### 2.6 ACID SULFATE SOILS

**Objectives:**

a. To ensure that disturbance of Acid Sulfate Soils or Potential Acid Sulfate Soils is minimised, to prevent adverse environmental impact on soil conditions.

b. To ensure that water quality and associated receiving waters are not detrimentally affected by the effects of Acid Sulfate Soils.

c. To ensure that habitat is not detrimentally affected by the effects of Acid Sulfate Soils.

d. To ensure that built structures and infrastructure are not detrimentally affected by the effects of Acid Sulfate Soils.

**Controls:**

1. Development should be sited or designed to avoid the disturbance of Acid Sulfate Soils or potential Acid Sulfate Soils.

2. Where the disturbance of Acid Sulfate Soils is unavoidable, a Preliminary Acid Sulfate Soil Assessment report must be submitted with the development application, in accordance with the NSW Acid Sulfate Soils Planning Guidelines.

3. Where a Preliminary Acid Sulfate Soil Assessment report identifies potential adverse impacts, a detailed assessment report and management plan must be submitted, in accordance with the NSW Acid Sulfate Soils Planning Guidelines.

4. Any Acid Sulfate Soils must be identified on the site analysis plan.

**Note:** Refer to Lake Macquarie Council’s Acid Sulfate Soil planning maps showing classes of land containing potential or actual Acid Sulfate Soils. These maps are available at Council’s Customer Service Centre, Speers Point.

### 2.7 STORMWATER MANAGEMENT

**Objectives**

a. To ensure that development does not adversely affect water quality or availability, including ground water.

b. To ensure that watercourses and associated riparian vegetation are maintained so as to contribute to water quality, and to mitigate sedimentation of the Lake Macquarie waterway.

c. To minimise any adverse impacts on downstream built or natural environments, or on nearby land due to increased development.

d. To incorporate Water Sensitive Urban Design techniques into all new developments.

e. To minimise the volume and rate of stormwater leaving a development site.
Controls

1. A Water Cycle Management Plan must be submitted for all development except single dwelling houses and dual-occupancy developments. The Water Cycle Management Plan must provide details of the management of stormwater, and the measures proposed to mitigate the effects of stormwater on adjoining or downstream sites in accordance with Council’s Water Cycle Management Guidelines.

2. On-site measures must be implemented to maintain water quality, and to minimise the volume of stormwater run-off and the rate at which stormwater leaves the site.

3. A maximum of 10% of run-off from built impermeable surfaces may be discharged directly to the drainage system. The remaining 90% of run-off must be captured for reuse, or managed through infiltration and retention measures prior to being discharged to the drainage system.

4. Stormwater management systems should be visually unobtrusive and integrated within site landscaping, car parks or building structures.

5. All developments (except dwelling house or dual occupancy) that involve the re-use of stormwater or the use of recycled water must demonstrate compliance with the Australian Guidelines for Water Recycling and the licensing requirements of the Water Industry Competition Act 2006.

6. Stormwater management systems must be designed in accordance with the Water Cycle Management Guidelines.

2.8 CATCHMENT FLOOD MANAGEMENT

This section applies to land in the various creek catchments in Lake Macquarie that are shown as ‘Lots Affected by Catchment Flooding’ on Council’s ‘Flood Control Lots’ map.

The map is indicative only and property information should be checked to confirm if a lot is a catchment flood control lot.

Some lots are affected by both catchment flooding and Lake flooding. The development controls that apply to these lots depend on the type of development, and further advice should be sought from Council.

Further information on flood risk and flood planning levels (floor levels) for particular lots can be obtained by applying for a Flood Certificate from Council.

Provisions regarding Lake flooding are contained in section 2.9 of this Part of DCP 2014.

Where inconsistencies arise, the controls in area plans prevail over controls in parts 2 to 9 of this DCP.

Objectives

a. To ensure that development is sited and designed to minimise potentially adverse impacts of flooding on the proposed development or on other properties.

b. To ensure that measures are implemented to reduce the impact of flooding and flood liability on owners and occupiers of flood prone property. Such measures must also reduce private and public losses resulting from flooding and to manage risks to property and life from flood events.

Controls

1. Development must be consistent with the current version of the NSW Floodplain Development Manual, and any local flood study, floodplain management study or plan applying to the land that has been endorsed by Council.

2. The proposed development must consider and respond to flooding hazards. It must also mitigate risks to life and/or property through design and positioning of development.

3. Buildings are not permitted in an identified floodway.

4. Buildings and other structures, including fences, must be designed so as not to impede the flow of floodwaters or entrap debris.
5. Commercial floor space must have a finished floor height at least 500mm above the 100 year ARI (1% AEP) event, or equivalent measures must be in place to mitigate flood damage (eg: flood barrier system with evacuation plan). Where probability flood levels are not available, habitable rooms must have a finished floor height at least 500mm above the highest observed flood level for the development site.

6. Other development must have a finished floor height at or above the 100 year probable ARI (1% AEP) event, or equivalent measures must be in place to mitigate flood damage (eg: flood barrier system / sealed entrances with evacuation plan). Where probability flood levels are not available, the finished floor height must be at, or above the highest observed flood level for the site, or equivalent measures must be in place to mitigate flood damage.

7. Fill is not permitted within core riparian zones, within the Lakefront Development Area or the Foreshore Development Area, or within the extent of the 100 year probable ARI (1% AEP) flood event.

8. Lesser provisions may be acceptable where the applicant can demonstrate that the type of development or the proposed use poses no significant risk to life or property by flooding.

9. Development on designated flood prone land must incorporate the floodplain risk management measures, as recommended by a local flood study, floodplain management study or plan, which identifies and addresses appropriate actions in the event of flooding.

10. Any fill associated with the development must not substantially impede the flow of floodwater, and must not contribute to flooding or ponding of water on other property.

11. Additions or alterations to existing development will be assessed on the merits of the situation, having regard to meeting an acceptable level of risk of flood damage.

12. Development on land subject to flooding must use flood compatible materials that will minimise damage by flooding.

13. Development where 100 year ARI levels are not available, and which may be flood liable, should be designed to meet an acceptable level of risk from flood damage. This may require the creation of a new Local Flood Study that considers cumulative impact issues, and demonstrates negligible impacts on other lands.

**Note:** Refer to Council’s *Flood Management Guideline* for further information on the *NSW Floodplain Development Manual*, completed floodplain management plans, and on Council’s requirements for Flood Studies.

**Table 2 - Flood Planning Levels and floor height requirements in areas affected by catchment flooding and covered by a Floodplain Management Study and Plan**

<table>
<thead>
<tr>
<th>Development Type (including extensions)</th>
<th>Minimum Height Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dwellings</td>
<td></td>
</tr>
<tr>
<td>Habitable rooms</td>
<td>1 in 100 year probable flood level + 500mm freeboard (post and beam rather than slab on ground preferred)</td>
</tr>
<tr>
<td>Non-habitable rooms and garages</td>
<td>1 in 20 year probable flood level</td>
</tr>
<tr>
<td>Carports, boat sheds, garden sheds, and other ancillary structures (excluding garages)</td>
<td>No requirement</td>
</tr>
<tr>
<td>Unsealed electrical installations</td>
<td>1 in 100 year probable flood level + 500mm freeboard</td>
</tr>
</tbody>
</table>
### Development Type (including extensions) | Minimum Height Requirements
--- | ---
Medium and High density residential development | 
Habitable rooms | 1 in 100 year probable flood level + 500mm freeboard
Non-habitable rooms and garages | 1 in 20 year probable flood level
Carports, boat sheds, garden sheds, and other ancillary structures (excluding garages) | No requirement
Basement car parking | Constructed to preclude entry of floodwater at levels up to the 1 in 100 year probable flood level + 500mm freeboard. Additional requirement for basement levels to implement a failsafe means of evacuation, and a pump-out system to remove flood waters.
Unsealed electrical installations | 1 in 100 year probable flood level + 500mm freeboard

#### Commercial and Retail

<table>
<thead>
<tr>
<th>Development Type (including extensions)</th>
<th>Minimum Height Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal floor height</td>
<td>1 in 100 year probable flood level + 500mm freeboard</td>
</tr>
<tr>
<td>Basement car parking</td>
<td>Constructed to preclude entry of floodwater at levels up to the 1 in 100 year probable flood level + 500mm freeboard. Additional requirement for basement levels to implement a failsafe means of evacuation, and a pump-out system to remove flood waters.</td>
</tr>
<tr>
<td>Also includes Places of Public Worship, restaurants, clubs, entertainment facilities, warehouses, and bulky goods showrooms etc.</td>
<td></td>
</tr>
<tr>
<td>Unsealed electrical installations</td>
<td>1 in 100 year probable flood level + 500mm freeboard</td>
</tr>
</tbody>
</table>

#### Mixed Use development

<table>
<thead>
<tr>
<th>Development Type (including extensions)</th>
<th>Minimum Height Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal floor height</td>
<td>1 in 100 year probable flood level + 500mm freeboard</td>
</tr>
<tr>
<td>Basement car parking</td>
<td>Constructed to preclude entry of floodwater at levels up to the 1 in 100 year probable flood level + 500mm freeboard. Additional requirement for basement levels to implement a failsafe means of evacuation, and a pump-out system to remove flood waters.</td>
</tr>
<tr>
<td>Unsealed electrical installations</td>
<td>1 in 100 year probable flood level + 500mm freeboard</td>
</tr>
</tbody>
</table>
### Development Type (including extensions) | Minimum Height Requirements
---
| Industrial |
| **Internal floor height** | 1 in 100 year probable flood level |
| **Unsealed electrical installations** | 1 in 100 year probable flood level + 500mm freeboard |

| Sensitive Uses (Residential care facilities, hospitals, etc.) |
| **Internal floor height** | Probable maximum flood level |
| **Unsealed electrical installations** | Probable maximum flood level |

#### 2.9 LAKE FLOODING AND TIDAL INUNDATION (INCORPORATING SEA LEVEL RISE)

This section applies to land on and near the Lake Macquarie foreshore that is shown as ‘Lots Affected by Lake Flooding’ on Council’s ‘Flood Control Lots’ map. The map is indicative only and property information should be checked to confirm if a lot is a Lake flood control lot.

Some lots are affected by both catchment flooding and Lake flooding. The development controls that apply to these lots depend on the type of development, and further advice should be sought from Council.

Provisions regarding Catchment Flooding are contained in section 2.8 of this Part of DCP 2014.

The floor height requirements in Table 3 below must only be used for development on lots shown as ‘Lots Affected by Lake Flooding’ on Council’s ‘Flood Control Lots’ map.

Council completed the Lake Macquarie Waterway Flood Study and Risk Management Plan in 2012. This flood study and risk management plan incorporated the implications of predicted sea level rise.

Predicted sea level rise is based on expert advice from NSW Government agencies and expert scientific agencies, namely that projections of sea level rise along the NSW coast are for a rise relative to 1990 mean sea levels of 40cm by 2050 and 90cm by 2100.

The controls contained in this section prevail where there is an inconsistency with other development requirements. This is particularly relevant to cut and fill controls.

**Objectives**

- a. To ensure that development is sited and designed to minimise potentially adverse impacts of flooding on the proposed development, or on other properties.
- b. To ensure that measures are implemented to reduce the impact of flooding and flood liability on owners and occupiers of flood prone property. Such measures must also reduce private and public losses resulting from flooding, and manage risks to property and life from flood events.
- c. To ensure that development adequately considers and responds to sea level rise projections, and the predicted effects on inundation, flooding, coastal and foreshore recession, and on groundwater levels.
- d. To ensure that development on land vulnerable to sea level rise is situated and designed to minimise the risk from future inundation, flooding, coastal and foreshore recession, and from rises in groundwater levels during the expected life of the development.
- e. To ensure that development is designed to enable future adaptation if projections are realised, or that measures are implemented to mitigate any adverse impacts of climate change or sea level rise.
- f. To encourage innovative responses to sea level rise impacts.
**Controls**

1. Development must implement measures to mitigate the adverse effects of projected sea level rise and increases in flood levels on the development.

2. Development should be designed and situated to reduce the risk from the effects of sea level rise. For example, structures should be located on the highest part of the lot and/or located as far back from the foreshore or coastline as possible, while still meeting other controls and objectives of the DCP.

3. Development should not be located in areas predicted to be permanently inundated during the life of the asset. The assumed asset life is 100 years for residential care facilities and seniors housing, hospitals, mixed use development and for medium and high density housing, and 50 years for other developments.

4. Notwithstanding the provisions for Cut and Fill in section 3.18, special consideration may be given to increased fill allowances in areas affected by sea level rise provided that:
   i. Additional fill does not adversely affect stormwater management, drainage, or the flow of water from roads, natural or constructed watercourses, foreshore areas or adjoining properties; and
   ii. The filled area maintains functional connections to adjoining footpaths, roads, neighbouring blocks and other local features.

5. Development identified within Table 3 should comply with the floor height provisions. Where the development proposed is not contained within Table 3, or an alternative to the provisions contained within Table 3 is proposed, a Flood Safety Audit and Management Plan must be submitted with the application, which is to include:
   i. Current 100 year ARI flood levels and velocity, as well as at 2050 and 2100;
   ii. Analysis of potential and likely risk of flooding, and/or potential threat to life and/or property now, and at 2050 and 2100;
   iii. Analysis of the potential effects of permanent inundation, foreshore recession and rising groundwater;
   iv. Where flood-proof materials are proposed, evidence of the flood-proof characteristics of those materials must be provided;
   v. Where a relocatable building or structure is proposed, a demonstrated ability to relocate the building or structure, including an identified relocation site must be provided; and
   vi. Any other alternative adaptive measure must be justified.

6. The assessing officer may determine that the development proposal is of a minor nature, and that there is no need for a Flood Safety Audit and Management Plan. In these circumstances, the assessing officer must be satisfied that the proposed development adequately addresses projected sea level rise and increases in flood levels.
<table>
<thead>
<tr>
<th>Development Type (including extensions)</th>
<th>Minimum Floor Height Requirements</th>
<th>Actual Minimum Floor Level for Land to which the Lake Flood Study Applies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dwellings</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Habitable rooms</td>
<td>1 in 100 year probable flood level for 2050 + 500mm freeboard (post and beam rather than slab on ground preferred)</td>
<td>2.36 m AHD</td>
</tr>
<tr>
<td>Non-habitable rooms and garages</td>
<td>1 in 20 year probable flood level for 2050</td>
<td>1.61 m AHD</td>
</tr>
<tr>
<td>Carports, boat sheds, garden sheds, and other ancillary structures (excluding garages)</td>
<td>No requirement</td>
<td></td>
</tr>
<tr>
<td>Unsealed electrical installations</td>
<td>1 in 100 year probable flood level for 2050 + 500mm freeboard</td>
<td>2.36 m AHD</td>
</tr>
<tr>
<td><strong>Medium and High density residential development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Habitable rooms</td>
<td>1 in 100 year probable flood level for 2100 + 500mm freeboard</td>
<td>2.82 m AHD</td>
</tr>
<tr>
<td>Non-habitable rooms and garages</td>
<td>1 in 20 year probable flood level for 2100</td>
<td>2.10 m AHD</td>
</tr>
<tr>
<td>Carports, boat sheds, garden sheds, and other ancillary structures (excluding garages)</td>
<td>No requirement</td>
<td></td>
</tr>
<tr>
<td>Basement car parking</td>
<td>Constructed to preclude entry of floodwater at levels up to the 1 in 100 year probable flood level for 2100 + 500mm freeboard. Additional requirement for basement levels to implement a failsafe means of evacuation, and a pump-out system to remove flood waters.</td>
<td>2.82 m AHD</td>
</tr>
<tr>
<td>Unsealed electrical installations</td>
<td>1 in 100 year probable flood level for 2100 + 500mm freeboard</td>
<td>2.82 m AHD</td>
</tr>
<tr>
<td><strong>Commercial and Retail</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal floor height</td>
<td>1 in 100 year probable flood level for 2050 + 500mm freeboard</td>
<td>2.36 m AHD</td>
</tr>
<tr>
<td>Basement car parking</td>
<td>Constructed to preclude entry of floodwater at levels up to the 1 in 100 year probable flood level for 2050 + 500mm freeboard. Additional requirement for basement levels to implement a failsafe means of evacuation, and a pump-out system to remove flood waters.</td>
<td>2.36 m AHD</td>
</tr>
</tbody>
</table>
### Development Type (including extensions) | Minimum Floor Height Requirements | Actual Minimum Floor Level for Land to which the Lake Flood Study Applies
---|---|---
Unsealed electrical installations | 1 in 100 year probable flood level for 2050 + 500mm freeboard | 2.36 m AHD

**Mixed Use development**
- **Internal floor height** | 1 in 100 year probable flood level for 2100 + 500mm freeboard | 2.82 m AHD
- **Basement car parking** | Constructed to preclude entry of floodwater at levels up to the 1 in 100 year probable flood level for 2100 + 500mm freeboard. Additional requirement for basement levels to implement a fail-safe means of evacuation, and a pump-out system to remove flood waters. | 2.82 m AHD

Unsealed electrical installations | 1 in 100 year probable flood level for 2100 + 500mm freeboard | 2.82 m AHD

**Industrial**
- **Internal floor height** | 1 in 100 year probable flood level for 2050 | 1.86 m AHD
- **Unsealed electrical installations** | 1 in 100 year probable flood level for 2050 + 500mm freeboard | 2.36 m AHD

**Sensitive Uses** *(Residential care facilities, hospitals, etc.)*
- **Probable maximum flood level for 2100** | 3.27 m AHD
- **Unsealed electrical installations** | Probable maximum flood level for 2100 | 3.27 m AHD

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### 2.10 NATURAL WATER SYSTEMS

**Definition:** A natural water system is a naturally occurring watercourse, waterway, lake, wetland, lagoon, estuary, and/or other water body.

**Objectives:**
- a. To protect and maintain the water regime of natural water systems.
- b. To ensure that development does not adversely affect aquatic fauna.
- c. To ensure that development does not adversely affect water quality or availability, including ground water.
- d. To ensure that watercourses and associated riparian vegetation are maintained to contribute to water quality, and to mitigate sedimentation of the Lake Macquarie waterway.
- e. To ensure that natural water systems and associated vegetation and landforms are protected to improve the ecological processes and ensure that land is adequately buffered from development.
- f. To ensure that the pre-development water quality of receiving waters is maintained or improved.

**Controls:**
- 1. Natural water systems must be maintained in a natural state, including the maintenance of riparian vegetation and habitat such as fallen debris.
2. Where a development is associated with, or will affect a natural water system, rehabilitation must occur to return that natural water system – as much as possible – to a natural state. The Rehabilitation Plan must be prepared in accordance with Council’s *Guidelines for the Preparation of Rehabilitation Plans for Degraded Watercourses or Waterbodies*.

3. Rehabilitation should occur where a development site includes a degraded watercourse, water body, or wetland. Rehabilitation is to be carried out following the completion of a Rehabilitation Plan. This Plan must prepared in accordance with Council’s *Guidelines for the Preparation of Rehabilitation Plans for Degraded Watercourses or Waterbodies*.

4. Stormwater must be managed to minimise nutrient and sediment run-off entering constructed drainage lines, natural watercourses, or waterways.

5. Development within a Vegetated Riparian Zone (VRZ), as shown in Figure 2 – Vegetated Riparian Zones, should be avoided where possible to retain its ecological processes. Where development is unavoidable within the VRZ, it must be demonstrated that potential impacts on water quality, aquatic habitat, and riparian vegetation will be negligible.

6. A Plan of Management must be submitted in accordance with State Government guidelines for development proposed within a VRZ.

7. Asset Protection Zones must not be located within the Vegetated Riparian Zone.

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**Figure 1 - Vegetated Riparian Zones**

<table>
<thead>
<tr>
<th>Types of watercourses</th>
<th>VRZ Width² (Each side of watercourse)</th>
<th>Total Riparian Corridor Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any first order¹ watercourse</td>
<td>10 metres</td>
<td>20m + channel width</td>
</tr>
<tr>
<td>Any second order¹ watercourse</td>
<td>20 metres</td>
<td>40m + channel width</td>
</tr>
<tr>
<td>Any third order¹ watercourse</td>
<td>30 metres</td>
<td>60m + channel width</td>
</tr>
<tr>
<td>Any fourth order¹ watercourse or greater (includes estuaries, wetlands and any parts of rivers influenced by tidal waters)</td>
<td>40 metres</td>
<td>80m + channel width</td>
</tr>
</tbody>
</table>

¹ As classified under the Strahler System of ordering watercourses.

² Bushfire Asset Protection zones will not be permitted in the Vegetated Riparian Zone. Additional areas may need to be protected to support ecological processes.
2.11 **BUSHFIRE**

This section only applies to land identified on Council’s [Bushfire Prone Land Map](#).

**Objectives:**

a. To ensure that risks associated with bushfire are appropriately and effectively managed on the development site.

b. To ensure that bushfire risk is managed in connection with the preservation of the ecological values of the site and adjoining lands.

**Controls:**

1. Development must comply with the [NSW Planning for Bushfire Protection](#) guidelines.

2. Asset Protection Zones must:
   
   i. Be incorporated into the design of the development;
   
   ii. Be as low maintenance as possible;
   
   iii. Be located outside areas of ecological value and the buffers necessary to protect them; and
   
   iv. Not occur on adjoining environmental zoned land.

3. Bushfire prone areas and Asset Protection Zones must be identified on the Site Analysis Plan. Refer to Council’s [Bushfire Prone Land Map](#).

4. Clearing for the purposes of Asset Protection Zones should be avoided on ridgelines and slopes of 1:5 or greater.

5. Clearing of vegetation must be limited to that necessary to meet the [NSW Planning for Bushfire Protection](#) guidelines.

6. Clearing of native vegetation or trees for the purposes of reducing bushfire risk must be consistent with the current Bushfire Risk Management Plan prepared under the [Rural Fires Act 1997](#).

**Note:** Development Consent is not required for clearing for the purpose of bushfire hazard reduction if the clearing is consistent with the current Bushfire Risk Management Plan, and is undertaken in accordance with a current hazard reduction certificate issued by the Rural Fire Service or other certifying authority.

2.12 **FLORA AND FAUNA**

**Objectives**

a. To avoid and minimise impacts on native flora and fauna

b. To protect and enhance significant flora and fauna, vegetation communities, and significant habitat on the site, and on surrounding development sites.

c. To protect and enhance ecological corridors and increase the connections between habitats.

d. To ensure rehabilitation of degraded areas.

**Controls**

1. Where the proposed development is likely to have an impact on native vegetation or fauna habitat, or where five or more native trees are proposed to be removed, a flora and fauna assessment must be submitted with the development application. The flora and fauna assessment must be prepared in accordance with Council’s [Flora and Fauna Survey Guidelines](#).

2. The flora and fauna assessment must be sufficient to adequately identify and assess all the impacts of the proposed development. This includes cumulative, direct and indirect impacts, as well as the impacts of Asset Protection Zones, provision of services (water and sewer, etc) and stormwater management.

3. Where a proposed development site is within a vegetation corridor identified on [Native Vegetation and Corridors Map](#), or identified as part of a site specific flora and fauna assessment, the corridor...
must be surveyed. Within the survey, the appropriate corridor width must be determined with reference to core habitat areas and potential edge effects and fragmentation. The proposed development should be located and designed to avoid impacts on the identified vegetation corridor. Where this is not possible, the development should be designed to minimise impacts.

4. Development should be designed to avoid impacts on native flora and fauna, and minimise any unavoidable impacts. Significant flora and fauna species, vegetation communities and habitat should be protected and enhanced through appropriate site planning, design and construction.

5. A Site Vegetation Plan must be submitted clearly indicating the location of the proposed development in relation to vegetation communities, significant flora and fauna species and vegetation, and significant habitat and corridors on the site.

6. Native vegetation buffers must be provided between development and areas containing threatened flora and fauna species or their habitat, threatened vegetation communities and native vegetation corridors. The width of the buffer should be determined with reference to the function of the habitat, the threat of sea level rise and the type of development proposed. The buffer should be designed to keep the area of significance in natural condition.

7. A suitable barrier such as a perimeter road should be provided between development, (including landscaped areas) and native vegetation or significant habitat features, to minimise edge effects.

8. Where a proposed development is likely to impact on an area of native vegetation, it must be demonstrated that no reasonable alternative is available. Suitable ameliorative measures must also be proposed (eg: weed management, rehabilitation, nest boxes).

9. Rehabilitation of degraded areas of the development site should include local native species to establish a self-maintaining ecosystem as close as possible to the natural state.

10. Buildings and structures, roads, driveways, fences, dams, infrastructure, drainage and asset protection zones should be located outside of areas with significant flora and fauna, native vegetation corridors and buffers.

11. An application for removal of native vegetation will only be considered where it is ancillary to, and necessary for conducting an approved use of the land (ie: an application for clearing alone will not be supported).

12. Where retention or rehabilitation of native vegetation and/or habitat is required, a vegetation management plan must be prepared in accordance with Council’s Tree Preservation and Native Vegetation Management Guidelines. This must detail how vegetation will be protected, rehabilitated and managed before, during and after construction.

13. Long-term protection and management of areas set aside for ecological reasons is encouraged through secure tenure with appropriate conservation management. This may be achieved through a Planning Agreement.

14. Development should be consistent with the effective conservation of land within any adjacent Environmental or Waterway zone and its protection from adverse impacts. It should include, but not be limited to weed invasion, erosion and sedimentation, pollution, chemicals, nutrients, stormwater run-off, feral and domestic animals.

Note: Council may require a bond to ensure that native vegetation is protected and any ameliorative measures are undertaken.

2.13 PRESERVATION OF TREES AND VEGETATION

Objectives:

a. To ensure that trees listed on Council’s Significant Tree register are not adversely affected by development.

b. To maintain and enhance the natural bushland or vegetated character of the city.

c. To retain trees for the urban amenity, microclimate, scenic, air and water quality, and the social benefits that they provide.
Controls:

1. For the purposes of Clause 5.9 in LMLEP 2014, development consent is required to ring bark, cut down, top, lop, remove, injure, wilfully destroy or clear:
   i. Any species of vegetation that existed in the State of New South Wales before European Settlement;
   ii. A tree which is listed in Council’s Significant Tree Register;
   iii. Tree(s) or native vegetation listed as heritage items or located within a Heritage Conservation Area; or
   iv. A Norfolk Island Pine Tree (*Araucaria heterophylla*) that is greater than three metres in height, or that has a trunk diameter of 75mm or greater, measured at ground level.

Note: This clause includes Native Vegetation defined in the *Native Vegetation Act 2003* and marine vegetation covered by section 205 of the *Fisheries Management Act 1994*.

2. Except in the E2 Zone, development consent is not required to remove, injure, wilfully destroy or clear native vegetation (excluding native trees and shrubs over 3m in height), only if:
   i. The work is for the purpose of landscaping understorey vegetation and lawn areas where the area to be cleared is less than 600m² (in total), and is on the same allotment as, and within the curtilage of an approved dwelling;
   ii. The soil surface exposed in any period of 90 consecutive days is less than 250m²;
   iii. The slope of the land is less than 15 degrees;
   iv. The area is not subject to a development consent that requires the native vegetation to be retained; and
   v. The work does not involve the disturbance of habitat for threatened species.

3. Development consent is not required to ring bark, cut down top, lop, remove, injure, wilfully destroy or clear a tree or native vegetation, if:
   i. The tree is not listed on Council’s Significant Tree Register or as Heritage Item or is located within a heritage conservation area, and
   ii. The tree or native vegetation is not required to be retained by a development consent, and
   iii. The tree or native vegetation is within five metres of the outermost projection of a lawfully used building (that is not exempt or complying development) and is on the same allotment as the building, or
   iv. The tree or native vegetation is within one metre of a sealed driveway to a lawfully used building (that is not exempt or complying development) and is on the same allotment as the building, or
   v. The tree or native vegetation is within five metres of the outermost projection of a lawfully used building (that is not exempt or complying development) on an adjoining allotment as the building and owners of both properties reach a written agreement before removal occurs.

Note: For the purposes of clause 3 the distance must be measured from the trunk of a tree or shrub measured at ground level to the outer most projection of the building.

Note: A sealed driveway is a driveway or car park with an impervious surface such as concrete, pavers, or bitumen. A gravel driveway is not classed as a sealed driveway.

Note: A lawfully used building does not include drainage, excavation, a garden shed or jetty, but does include an underground water storage structure or septic tank.

4. Development consent is not required for removal of a tree or native vegetation if Council is satisfied beforehand that the tree or native vegetation:
   i. Is dead and is not required as habitat for native fauna or
ii. Is a risk to life or property.

**Note:** Evidence to support removal should be forwarded to Council in accordance with requirements outlined in Council’s *Tree Preservation and Native Vegetation Management Guidelines*. Council’s Tree Assessment Officer may undertake a site inspection to verify that these conditions are satisfied.

**Note:** Habitat required for native fauna includes native vegetation and trees (including dead or dying trees) support hollows, spouts, splits, nests and roosts.

5. Development consent is** not** required for removal of a tree or native vegetation if:
   i. The tree or native vegetation is in danger of imminent failure and there is risk to life or property; and
   ii. The tree is not listed on Council’s Significant Tree Register or as Heritage Item or is located within a heritage conservation area, and
   iii. Evidence to support its removal is forwarded to Council following the removal, in accordance with Council’s *Tree Preservation and Native Vegetation Management Guidelines*.

6. Development consent is** not** required for removal of a NSW native tree if the tree is:
   i. not listed on Council’s Significant Tree Register or as Heritage Item or is located within a heritage conservation area, and
   ii. not located within other native vegetation and,
   iii. less than three metres in height and
   iv. has a trunk diameter at ground level of less than 75mm.

7. An application for removal of tree(s) and native vegetation will be considered only where it is necessary for conducting an approved use of the land. An application for clearing alone will not be supported.

8. A report from a suitably qualified arborist must be submitted to support:
   i. Any application that may have an impact on a tree listed in Council’s Significant Tree Register, or on tree(s) or native vegetation listed as heritage items or located within a heritage conservation area;
   ii. Any request to review Council’s determination of an application for tree pruning or removal; or
   iii. Any application that Council determines may cause significant impacts on native trees or native vegetation.

9. An arborist report must include a plan to scale that clearly shows:
   i. The location of the proposed development;
   ii. The location, diameter, canopy spread, condition and species of each tree on the site;
   iii. All trees to be removed;
   iv. All trees to be retained;
   v. All trees with habitat hollows;
   vi. Tree protection zones for all trees to be retained; and
   vii. Any asset protection zones.

10. Habitat trees must be assessed by a suitably qualified flora and fauna specialist.

11. Measures must be implemented to protect native vegetation and trees to be retained during construction works. Such protection measures must be specified in the development application, and should be compiled in accordance with Council’s *Tree Preservation and Native Vegetation Management Guidelines*. 
12. Where habitat trees are removed, measures (such as nest boxes) must be implemented to mitigate against injury or loss of native fauna and habitat. Such measures must be specified in the development application.

13. Boundary fences must be located, designed and constructed to avoid removing or damaging native trees that have a diameter of 200mm or greater, measured at ground level.

Note: Refer to Council’s Tree Preservation and Native Vegetation Management Guidelines for further details and the Significant Tree Register.

2.14 EUROPEAN HERITAGE

Objectives

a. To protect and maintain European heritage items and their facades.

b. To retain, preserve and promote the adaptive re-use of heritage-listed buildings and contributory buildings in particular, and other buildings that contribute to the heritage character of the locality.

c. To appropriately manage demolition of items of heritage significance, when all other alternatives to demolition have been fully investigated.

d. To ensure that development is sympathetic to heritage items and contributory buildings.

Controls

1. A Heritage Assessment and Statement of Heritage Impact must be submitted to Council where a proposed development:
   i. incorporates, or is adjacent to an item of heritage significance;
   ii. is located within a heritage conservation area, or,
   iii. has been identified by Council to have particular circumstances that warrant it.

Note: Council officers will use the following criteria to determine the need for Heritage Assessment and Statement of Heritage Impact is required under control 1(iii) above:

• The subject site includes a building erected prior to 1950 whether or not it is identified as being of a particular architectural style,

• The development is considered in conflict with it’s heritage context, streetscape, or heritage precinct,

• The subject site includes a potential heritage item.

2. The impact of development on an item of heritage significance must be minimised by:
   i. Restricting the extent of development to that which is necessary;
   ii. Conserving what is significant about the item;
   iii. Clearly differentiating new development from the existing significant fabric;
   iv. Ensuring that development is of a scale, form, mass, proportion and finish that is sympathetic with the heritage item; and
   v. Ensuring that development is sufficiently separated from the heritage item, so as not to compromise the existing level of visibility.

3. For development involving demolition of an item of heritage significance, a heritage assessment and Statement of Heritage Impact must be prepared and lodged. It must verify that all alternative options to demolition have been fully investigated, and demonstrate the replacement building’s compatibility with the physical context. The Statement of Heritage Impact must include details of the:
   i. Structural condition;
   ii. Overall extent of the remaining fabric;
iii. Potential retention and adaptive reuse; and
iv. Comparative costings.

4. Where demolition of the whole of a heritage item is proposed, approval must be sought concurrently for the replacement building.

5. Alterations and additions to items of heritage significance must where possible:
   i. Occur at the rear of the building;
   ii. Maintain the established building line;
   iii. Maintain an existing driveway access to the rear of the property;
   iv. Incorporate or retain elements such as chimneys, windows and gables;
   v. Maintain established patterns of buildings and garden; and
   vi. Not overwhelm or dominate the existing building.

6. Alterations and additions to items of heritage significance must be recognisable, on inspection, as new work. They must not mimic the design, materials or historic details of the heritage item.

7. Garages, sheds, carports, external utilitarian structures and the like must be detached and located at the rear, or set back at least two metres behind the heritage item.

2.15 ABORIGINAL HERITAGE

Objectives
a. To protect and conserve Aboriginal cultural, spiritual, and sacred sites within the City.
b. To ensure the impact of a proposed development on the heritage significance of an Aboriginal place or object is considered by adequate investigation and assessment.

Controls
1. Where a development will disturb the ground surface and the natural ground surface has not been significantly disturbed, the development application must demonstrate that adequate due diligence has been undertaken. This includes (but is not limited to) submitting the following documentation in accordance with the Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW. This includes submitting the following documentation:

   i) A statement and results of a basic 200m Aboriginal Heritage Information Management System (AHIMS) search. Where a site is identified within 200m of the development site, a statement and results of a 50m AHIMS search must be included.

   ii) Identify whether the development site is partially or wholly within the Sensitive Aboriginal Landscape map under the LMLEP2014 and whether the exemptions under the Excluded Development Criteria (Table 4) apply.

   iii) A statement indicating whether there are landscape features that indicate the potential presence of Aboriginal objects.

Note: landscape features include: foreshore areas, creek lines, rocky areas, wetlands, ridge tops, ridgelines, headlands, sand dunes, caves.

2. A Due Diligence Assessment must be prepared by a suitably qualified person to determine whether the proposed development is likely to harm Aboriginal objects and identify whether an Aboriginal Heritage Impact Permit is required where:

   i) An AHIMS search has identified the likelihood of an Aboriginal item within 200m of the development site, and/or

   ii) The site is identified on the Sensitive Aboriginal Landscape map and the Excluded Development Criteria do not apply.
3. The Due Diligence Assessment must include an assessment of the cultural significance of the place to the Aboriginal Community.

Note: Clause 5.10(8) – Heritage Conservation of the LMLEP 2014 and the Lake Macquarie Aboriginal Heritage Management Strategy requires assessments to be forwarded to the Local Aboriginal Land Council for comment for a 28 day period.

4. An Aboriginal Cultural Heritage Assessment Report should be prepared where:
   i) A Due Diligence assessment has identified the potential for the site to contain an Aboriginal object or contains a place of significance, or
   ii) The development will have an impact on a known Aboriginal object or place.

Table 4 - Excluded Development Criteria for Development in Sensitive Aboriginal Landscape Map

<table>
<thead>
<tr>
<th>Excluded Development</th>
<th>Land on which excluded development may not be carried out</th>
</tr>
</thead>
<tbody>
<tr>
<td>All development on sites having a combined/total area less than 800m²</td>
<td></td>
</tr>
<tr>
<td>Exempt development under the SEPP (Exempt and Complying Development Codes) 2008 on sites having a total area greater than 800m² subject to:</td>
<td>Within 200m of an AHIMS site Setback from DP High Water mark does not exceed 50m.</td>
</tr>
<tr>
<td>• 75% of combined/total site area already disturbed; or</td>
<td></td>
</tr>
<tr>
<td>• Works do not exceed existing disturbed footprint; or</td>
<td></td>
</tr>
<tr>
<td>• Site has previously been assessed for Aboriginal heritage such as subdivision applications post 1997 development consent.</td>
<td></td>
</tr>
</tbody>
</table>

Note: The SEPP (Exempt and Complying Development Codes) 2008 does not apply to land within the Sensitive Aboriginal Landscape area. However, exempt development within this SEPP may not require further Aboriginal assessment if it fulfills the requirements of the Excluded Development Criteria Table.

5. Where required, the Aboriginal Heritage Impact Statement must be prepared in accordance with the Lake Macquarie Aboriginal Heritage Management Strategy and the Office of Environment and Heritage Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW, which includes consultation with the Aboriginal community.

6. Where a proposal seeks to destroy, remove or impact on an Aboriginal object, any development will be Integrated Development and will also require a permit from Office of Environment and Heritage.
2.16 NATURAL HERITAGE

Objectives

a. To ensure the protection of items of natural heritage significance.

b. To ensure that insect fossil beds and fossilised trees are maintained, along with features of scientific interest in their natural state.

c. To facilitate public appreciation and scientific investigation of insect fossil beds and geological features of scientific interest, without destruction or damage.

Controls

1. Where development is proposed on land within 50 metres of an item of natural heritage significance identified in the Lake Macquarie Local Environmental Plan 2014, a Heritage Impact Assessment must be prepared in accordance with the Natural Heritage Guidelines.

2. The likely impact of development proposals on the insect fossil beds and geological features of scientific interest should be identified through a report by a palaeontologist or geologist, which establishes the significance of the site. Such a report should include management strategies before, during, and after construction.

3. The development should be designed to avoid natural heritage items.

4. Where it is not reasonable to avoid natural heritage items, the item must be protected and incorporated into the design. Reasonable access to the construction site and any excavated material should be provided to researchers and/or palaeontologists from the Australian Museum or other research institution.

5. Any natural heritage items extracted should be fully documented and catalogued prior to being forwarded to the Australian Museum. Documentation and cataloguing must be undertaken to museum standards.

2.17 SOCIAL IMPACT

Council has a statutory obligation under the provisions of Section 4.15 of the Environmental Planning and Assessment Act 1979 to consider the social impact of a proposal when assessing a specific development application.

Social Impact Assessment focuses on the human dimension of a locality. It seeks to address the question “what will be the impact of a project/development on people?” and to anticipate outcomes that may flow from a proposed development which are likely to affect people’s way of life, their culture and/or their community.

Social Impact Assessment is not a tool to stop development, but is to assist in the assessment of development proposals so that the best development results.

Objectives

a. To ensure that development takes into consideration the likely social impacts that may arise, including any effects on equity, access, participation and rights.

b. To ensure that development occurs in appropriate locations, and is supported by adequate services and facilities to support the community and its needs.

c. To ensure that services and facilities are accessible to all members of the community.

d. To facilitate availability of active and passive recreation, natural landscapes, educational opportunities, employment opportunities, health services, public transport, and neighbouring centres, as well as maintaining or enhancing the aesthetics and amenity of the area.

Controls

1. A Social Impact Assessment (SIA) must be prepared in accordance with Council’s Social Impact Assessment Guidelines, and submitted with the development application in the following circumstances:

   i. the development is identified in table 5, or
ii. the development is valued at $5,000,000 or greater, or
iii. the development has a floor area greater than 3000m², or
iv. where Council identifies that particular circumstances warrant it.

Note: Council officers will use the following criteria to determine if a SIA is required under control 1(iv) above:

- The development is targeted at a particular socio-economic or demographic group,
- The development is considered in conflict with its locality, and
- The development has, or is anticipated to generate, significant levels of community opposition.

2. Potential adverse impacts identified by a SIA must be mitigated through redesign, whilst positive impacts should be enhanced by the design or other actions.

Note: The scope, complexity and requirements of a SIA will be commensurate with the scale of the proposed development. Applicants are advised to consult with Council’s Social Planner regarding specific requirements.

Table 5 - Uses requiring Social Impact Assessment

<table>
<thead>
<tr>
<th>Uses requiring Social Impact Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airport</td>
</tr>
<tr>
<td>Animal Boarding etc</td>
</tr>
<tr>
<td>Backpackers Accommodation</td>
</tr>
<tr>
<td>Brothels/sex service premises</td>
</tr>
<tr>
<td>Child Care Centre</td>
</tr>
<tr>
<td>Community facility</td>
</tr>
<tr>
<td>Crematorium</td>
</tr>
<tr>
<td>Designated Development</td>
</tr>
<tr>
<td>Education establishment</td>
</tr>
<tr>
<td>Entertainment facility</td>
</tr>
<tr>
<td>Expansion or Modification of an existing use that would otherwise be prohibited under the LEP</td>
</tr>
<tr>
<td>Freight Transport Facility</td>
</tr>
<tr>
<td>Funeral Chapel / Funeral Home</td>
</tr>
<tr>
<td>Group Home</td>
</tr>
<tr>
<td>Health Consulting Rooms</td>
</tr>
<tr>
<td>Health Service Facilities</td>
</tr>
<tr>
<td>Heli pad</td>
</tr>
<tr>
<td>Home Occupation (Sex Services)</td>
</tr>
<tr>
<td>Hospital (not including a day surgery facility – refer to medical centres)</td>
</tr>
<tr>
<td>Hotel or motel accommodation</td>
</tr>
<tr>
<td>Licensed Premises (Hotels, Taverns and Bottle Shops)</td>
</tr>
<tr>
<td>Marinas</td>
</tr>
<tr>
<td>Medical centre</td>
</tr>
<tr>
<td>Mortuary</td>
</tr>
<tr>
<td>Offensive and/or Hazardous Industry</td>
</tr>
<tr>
<td>Passenger Transport Facilities</td>
</tr>
<tr>
<td>Place of public worship</td>
</tr>
<tr>
<td>Port uses/ port facilities</td>
</tr>
<tr>
<td>Public Transport Facilities</td>
</tr>
<tr>
<td>Recreation Areas</td>
</tr>
<tr>
<td>Recreation facilities (indoor)</td>
</tr>
<tr>
<td>Registered Club</td>
</tr>
<tr>
<td>School</td>
</tr>
<tr>
<td>Seniors Housing</td>
</tr>
<tr>
<td>Service Stations</td>
</tr>
<tr>
<td>Sewage Treatment Plants</td>
</tr>
<tr>
<td>Takeaway food and drink premises including, drive-thru establishments, bottle shops, and fast food outlets</td>
</tr>
<tr>
<td>Waste Facilities</td>
</tr>
<tr>
<td>Water System / Facilities</td>
</tr>
</tbody>
</table>
2.18 ECONOMIC IMPACT

Council has a statutory obligation under the provisions of Section 4.15 of the Environmental Planning and Assessment Act 1979 to consider the economic impact of a proposal when assessing a specific development application.

Economic Impact Assessment focuses on the economic dimensions of a locality. It seeks to identify how a proposal will contribute to the economic growth of the locality and City through locating development in appropriate areas, supporting existing development in the area and through the creation of employment opportunity and other economic benefits.

Objectives

a. To ensure that development supports the Lake Macquarie hierarchy of centres and positively contributes to the City by supporting existing development in the locality and the community through the creation of employment opportunities.

b. To ensure development contributes through additional local employment and economic benefits.

Note: Refer to Council Economic Impact Assessment Guideline for further information and guide to the economic considerations for specific types of development.

Controls

1. An economic impact assessment must be prepared and submitted to Council at the discretion of the assessing officer under the following circumstances:
   i. Where development is valued at $5,000,000 or greater, or
   ii. Where the proposed development has a floor area greater than 5000m², or
   iii. Where the development is inconsistent with the zone objectives.
3 DEVELOPMENT DESIGN

3.1 STREETSCAPE

Objectives

a. To improve the visual amenity for all users and provide street activation of industrial areas.

b. To encourage building design that positively contributes to the streetscape and a pleasant environment for workers, and the community more broadly.

Controls

1. Blank walls must be minimised by incorporating an opening or change in the wall’s articulation. This should include a combination of change in materials, setback variation, architectural details and/or landscaping.

2. Screening of poorly designed buildings with vegetation is not an acceptable streetscape treatment. A combination of quality building design and landscaping must be used to provide a positive contribution to the streetscape.

3.2 STREET SETBACK

Objectives

a. To provide setbacks that complement the streetscape and provide for landscaping, reducing the dominance of buildings.

b. To maximise the efficient use of industrial zoned land.

Controls

1. Warehouses, bulky goods developments and the like are to be set back from the front property boundary a minimum distance of five metres for landscaping purposes. Designs must include soft and hard landscaping that provides a positive contribution to the streetscape. Where the site is a corner lot, this provision should be applied to both road frontages unless the assessing officer is satisfied that a lesser setback is appropriate for one of the frontages.

2. Single storey offices or display rooms are permitted within the front setback area, provided that they are ancillary to the primary industrial building’s use. Such a structure must be designed as an integral built form that makes a positive contribution to the streetscape, and must not exceed 50% of the primary building frontage.

Note: The term soft landscape refers to the vegetative materials used to improve a landscape by design. The corresponding term hard landscape describes construction materials. Soft and hard landscaping refers to all types of landscaping for development.
3.3 BUILDING BULK

Objectives
a. To encourage good design and innovative architecture to improve the urban environment.
b. To minimise the visual impact of development (including its bulk and scale) when viewed from adjoining properties, the street, waterways and land zoned for public recreation purposes.

Controls
1. Large areas of continuous wall planes must be avoided by varying building setbacks, and using appropriate techniques to provide visual relief.
2. Building height and scale must relate to the topography and the existing site conditions.
3. Verandas, recesses, surface treatments and variations in material selection and colour should be utilised to reduce building bulk.
4. Landscaping should be provided to reduce the visual bulk of buildings.
5. Walls in excess of 15 metres in length must be articulated, landscaped or otherwise treated in order to provide visual relief.
6. Walls in excess of four metres in height must be articulated, landscaped or otherwise treated in order to provide visual relief.

3.4 ENERGY EFFICIENCY AND GENERATION

Objectives
a. To ensure building orientation maximises solar access and natural cross ventilation.
b. To ensure energy efficiency is achieved in all developments.
c. To create energy resilience in local communities through design that allows opportunities for future installation of renewable energy generation and low carbon technology.
d. To minimise the economic impacts of increasing electricity costs and any requirements to disclose energy efficiency when selling or leasing a property.
Controls

1. Buildings must be oriented to provide efficient use of solar energy and natural ventilation wherever possible.
2. Designs must consider future potential for renewable energy generation and low carbon technology.
3. Developments in excess of 4,000m² gross floor area should achieve the equivalent of a minimum 4 Star Rating under the Green Building Council of Australia’s Green Star Rating tool.

Note: Formal certification of Green Star Rating under the Green Building Council of Australia is not required. Justification that the design would achieve the Green Star rate or an equivalent rating under a different system (e.g. NABERS) is only required.

3.5 SOLAR ACCESS AND ORIENTATION

Objectives

a. To ensure reasonable access to sunlight is maintained for occupants of likely future and existing dwellings on adjoining lands.

b. To ensure solar access is maintained to adjoining open space and public domain areas.

Controls

1. Developments must provide for the reasonable access to sunlight in accordance with the Planning Principle established by the Land and Environment Court in The Benevolent Society v Waverley Council [2010] NSWLEC 1082 and Davies v Penrith City Council [2013] NSWLEC 1141.
2. Where adjacent existing developments and their private open space receive less than the minimum requirements, any new development must seek to maintain or enhance the solar access of the adjacent buildings.
3. Where lot orientation allows, developments should be designed so that the long axis of the development is running east-west.
4. Building openings on the western elevations should be minimised. Where openings are unavoidable, they should be located higher on the façade and shaded by eaves or landscaping or similar.

3.6 LANDSCAPE DESIGN

Objectives

a. To provide site landscaping that complements the nature and scale of the development.

b. To enhance the amenity of the proposed development and streetscape.

c. To provide a visual buffer between the street and car parking areas.

d. To maintain clear lines of sight to entry points and access ways.

e. To provide low maintenance plantings.

f. To integrate stormwater management structures in the landscape design.

g. To link landscaped areas to the open space network where possible.

h. To provide a green industrial park environment to soften the impact of development on the environment.

Controls

1. Appropriate landscape documentation must be prepared and submitted, in accordance with Table 6 – Landscape Development Type and Requirements.
2. Landscape documentation must be prepared by appropriately qualified professionals. For Category 3 development, landscape documentation must be prepared by a qualified landscape architect. For Category 2 development, landscape documentation must be prepared by a landscape architect, landscape designer or horticulturist.

3. The landscape consultant's declaration must be signed and submitted with the relevant landscape documentation.

**Note:** Refer to Council’s [Landscape Design Guideline](#) for further details and requirements.

### Table 6 - Landscape development type and requirements

<table>
<thead>
<tr>
<th>Development Type and Category</th>
<th>Landscape Concept Plan at DA stage</th>
<th>Landscape Masterplan and Report at DA stage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category 3: Large Scale</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
| Development with an estimated value exceeding $1m, or  
Development of 10 or more dwellings, or  
Designated development, or  
Childcare facilities, community facilities, educational establishments, seniors housing, health services facilities, or tourist accommodation, or.  
Development in areas of high scenic quality, adjacent to the lake or Pacific Highway, in or adjacent to an environmental zone, on visually dominant ridgelines, or in a heritage conservation area. | | |
| **Category 2: Medium scale** | No                               | Yes                                         |
| Industrial development with an estimated value exceeding $0.25m, or  
Development for 3-9 dwellings, or  
Dual occupancy development; or  
Any development in a business zone. | | |
| **Category 1: Small scale** | No                               | No                                          |
| Single dwellings, or  
Development that will have little impact on the existing environment. | | |

**Note:** If a development type is not detailed in this table, or you are unsure of the category and requirements, seek advice from Council.

### 3.7 STREET TREE PLANTING

**Objectives:**

a. To enhance the amenity and desired character of the street.

b. To provide shade and shelter for pedestrians.

**Controls:**

1. Development must include the supply, installation and establishment of at least one advanced clear-trunk tree for every 20 metres of street frontage.

2. The root volume for each tree in the front setback area must be a minimum of 8m³ and between 600 and 750mm deep.

3. All trees installed must be advanced stock, and at least 75L container size.
4. The tree supplier or landscape contractor must provide evidence that all trees generally comply with NATSPEC Guide to Specifying Trees - Assessment of Tree Quality.

5. All trees installed must be established and maintained for a minimum period of 24 months. Any failed trees must be replaced immediately.

*Note:* Refer to Council’s Landscape Design Guideline for further details and requirements

### 3.8 LANDSCAPE AND TREE PLANTING IN FRONT SETBACK AREAS

#### Objectives

a. To allow for the planting and healthy growth of large canopy trees which enhance amenity and street character.

b. To provide large-scale planting between the street and parking and service areas, that reduces the visual impact of development.

c. To maintain sightlines from the street to carparks and entrances.

#### Controls

1. Development must include installation and maintenance of at least one advanced clear-trunked broad-canopy tree for every 20m$^2$ of front setback area.

2. The root volume for each tree in the front setback area must be a minimum of 8m$^3$ and between 600 and 750mm deep.

3. Each area allocated to tree planting must have a corresponding clear air space that is at least eight metres high and six metres in width.

4. All trees installed must be advanced stock, and at least 45L container size.

5. Understorey planting must comprise low growing species less than 900mm in height.

*Note:* Refer to Council’s Landscape Design Guideline for further details and requirements

### 3.9 LANDSCAPE AND TREE PLANTING IN CAR PARKS – B7 ZONE

This section applies to development within the B7 Business Park zone only.

#### Objectives

a. To provide broad-canopy tree cover in car parks for shade and shelter.

b. To reduce the visual impact of car parking areas.

c. To maintain sightlines below the tree canopy.

#### Controls

1. Development must include supply, installation and maintenance of at least one advanced clear-trunked broad-canopy tree for every six at-grade car parking spaces.

2. Each landscape planting area must include at least one medium to large tree species, with suitable ground covers or low shrubs below.

3. Each landscape planting area must have a minimum width of two metres.

4. The root volume for each tree in the front setback area must be a minimum of 8m$^3$ and between 600 and 750mm deep.

5. The root volume must be either existing deep soil or an equivalent volume of gap graded (load bearing) soil with a porous vehicle pavement on top, which is installed to manufacturers specifications.

6. Each area allocated to tree planting must have a corresponding clear air space that is at least eight metres high and six metres in width.
7. All trees installed must be advanced stock and at least 75L container size.
8. All trees installed must be established and maintained for the life of the development. Any failed trees must be replaced immediately.

Note: Refer to Council’s Landscape Design Guideline for further details and requirements

3.10 FENCING

Objectives

a. To avoid the dominance of fences on the streetscape and similar hostile design, and to soften the built environment in industrial areas.

Controls

1. Security gates and fencing may be erected on or just forward of the building line, provided it does not exceed a height of two metres, is designed for maximum visibility, and is screened by landscaping.
2. Fencing forward of the five metre setback must not exceed a height of 1.2 metres. It should be constructed of masonry or dark coloured picket/pool style fencing, in combination with vegetation

Note: Exceptions to the above fencing requirements must be justified by a CPTED Assessment, as described in Section 3.17 Safety and Security of this chapter of the DCP and demonstrated through a streetscape presentation assessment.

3.11 TRAFFIC AND TRANSPORT

Objectives

a. To provide effective, efficient and safe movement for pedestrians, bicyclists and motor vehicles.
b. To ensure that vehicles can enter and leave a development site in a forward direction, unless otherwise justified to Council’s satisfaction.

Controls

1. A Traffic Impact Statement must be prepared and submitted with any commercial/retail or industrial application for development of an area greater than 1000m², or where access to the site will be via an arterial or sub-arterial road.
2. Access points to a site are to be kept to a minimum and should be kept to one where possible.
3. Direct access to arterial and sub-arterial roads must be minimised to maintain the efficient flow of traffic on those roads. Alternative access is encouraged where available.
4. Driveways must be located as far as possible from intersections.
5. All driveways must be designed and constructed to provide adequate sightlines.
6. Driveways and internal road circulation must be designed to cater for safe manoeuvring and queuing, so as not to disturb traffic operations on external roads.
7. The design and layout of the development must reflect the type of vehicles that will need to access the site/development. It must also ensure that vehicles can enter and leave the site in a forward direction.
8. Driveways are of a type, construction and width suitable to the proposed development, and are designed so as not to detract from the streetscape.

Note: Refer to Council’s Traffic Impact Statement and Vehicle Access Guideline for further details and requirements.

3.12 DESIGN OF PARKING AND SERVICE AREAS

Objectives
Part 5 – Development In Industrial, Business Park & Infrastructure Zones

a. To ensure that on-site parking, loading/unloading docks, and driveways do not dominate or detract from the appearance of the development or the local streetscape.
b. To maximise pedestrian safety and amenity.
c. To ensure the safe and efficient movement of vehicles within, entering and leaving properties.

Controls
1. Parking and service areas must be behind the front setback area, and should be located to the side or rear of the development.
2. Car park design must include direct, safe and well marked pedestrian routes from the parking area to building entries.
3. Car park design must not result in dead-end aisles.
4. Parking aisles must be orientated at right angles to the main building frontage to facilitate pedestrian movement.
5. The design of vehicle parking areas must include appropriate lighting for safe pedestrian movement and security.

Note: The design of parking areas must comply with the provisions of AS2890 Parking Facilities.

3.13 BIKE PARKING AND FACILITIES

Objectives
a. To provide convenient and safe bike access, movement and parking.
b. To encourage travel to work by bike with convenient and secure end of trip facilities.

Controls
1. The following bike facilities must be provided for customers and short term users:
   i. Three bike parking spaces or one bike parking space for each 20 car parking spaces (as required in Table 7), whichever is the greater.
2. Bike parking for customers and short term users must be:
   i. Located close to the development’s pedestrian entrance where there is active and passive surveillance;
   ii. Within easy and safe access from outside the site, without impeding the movement of pedestrians or other vehicles; and
   iii. At least 50% covered from the weather where there are more than 10 spaces.
3. The following bike facilities must be provided for employees:
   i. One employee bike parking space for each 20 employees, or part thereof;
   ii. One personal locker per two employee bike parking spaces;
   iii. One unisex change room and one shower for development greater than 1000m² GFA and less than 5000m² GFA;
   iv. One female change room with one shower and one male change room with one shower, for development greater than 5000m² GFA; and
   v. One additional shower (in each change room) for each additional 5000m² GFA up to a maximum of five showers in each change room.
4. Bike parking for employees must be located in a secure undercover area.
5. The design of all bike parking must include:
   i. Clear signposting and good lighting;
ii. Racks that support the bicycle in an upright position, with the bicycle frame and at least one wheel locked to the rack;

iii. Racks that fit all types and sizes of bicycles;

iv. Construction and materials that are durable, and resistant to vandals and thieves; and

v. Designs in accordance with relevant Australian Standards.

3.14 MOTOR BIKE PARKING

Objectives

a. To provide convenient and safe motor bike access, movement and parking.

Controls

1. Development must provide one motor bike parking space for each 20 car parking spaces (as required in Table 7: Car Parking Rates)

3.15 CAR PARKING RATES

Objectives

a. To ensure that the number of bike, motor bike and car parking spaces is sufficient to support the intended use.

b. To ensure that the number of car parking spaces does not discourage the use of public transport or other modes of transport.

Controls

1. The number of car parking spaces provided must be consistent with the specifications of Table 7: Car Parking Rates.

2. Where vehicle parking requirements are not specified in Table 7, justification must be provided that supports the proposed vehicle parking provisions, such as:
   i. Survey data from comparable facilities; and
   ii. Survey data from existing operations where expansion is proposed.

3. Where the floor area of an existing development is being increased, the required car parking should be calculated for the additional floor area only.

4. Where the proposed number of car parking spaces is less than or greater than specified in Table 7, a justification must be provided to support a variation, such as:
   i. Survey data from comparable facilities;
   ii. Survey data from existing operations where expansion is proposed; and
   iii. A proposal for dual use of parking spaces.

5. A reduction to the car parking rate must not exceed 20% or 20 spaces, whichever is the lesser.

Note: ‘Amenities’ and ‘storage space’ are not included when calculating Gross Floor Area (GFA) for car parking purposes.

<table>
<thead>
<tr>
<th>Development Type</th>
<th>Car Parking Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disability parking rate</td>
<td>One space per 50 spaces. Where the requirement is between five and 50 spaces, at least one space is to be provided for persons with a disability. All disabled parking must comply with the relevant Australian Standard.</td>
</tr>
<tr>
<td>Development Type</td>
<td>Car Parking Rate</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Bulky goods premises</td>
<td>Two spaces, plus one space per 40m² GFA</td>
</tr>
<tr>
<td>Depots</td>
<td>One space per vehicle, plus one space per two full time equivalent employees</td>
</tr>
<tr>
<td>Home business or industry</td>
<td>As per Dwelling - ie: one undercover space and one space as single file parking per dwelling. As per dwelling, plus two spaces</td>
</tr>
<tr>
<td>Hotel or motel accommodation</td>
<td>1 space per 25m² of GFA</td>
</tr>
<tr>
<td>Restaurant or café</td>
<td>1 space per 25m² GFA</td>
</tr>
<tr>
<td>Restaurant or café</td>
<td>1 space per 40m² GFA</td>
</tr>
<tr>
<td>Funeral homes</td>
<td>One space per employee plus one space per three seats in chapel(s)</td>
</tr>
<tr>
<td>Landscape and garden supplies</td>
<td>One space per 50m² GFA</td>
</tr>
<tr>
<td>Neighbourhood Shops</td>
<td>One space per 25m² GFA</td>
</tr>
<tr>
<td>Service stations</td>
<td>One space per workshop bay</td>
</tr>
<tr>
<td>Sex services premises</td>
<td>One space per room used for sex services, plus one space per additional full time equivalent employee</td>
</tr>
</tbody>
</table>
### Development Type | Car Parking Rate
---|---
Storage premises (except hazardous storage establishments and offensive storage establishments) | One space per 300m²
Veterinary hospitals | One space per practitioner, plus 0.5 per full-time equivalent employee, plus 3 visitor spaces
Industry | One space per 100m² GFA, plus one space per 50m² ancillary office space
Freight transport facilities | Two spaces, plus one space per vehicle, plus 0.5 spaces per full-time equivalent employee
Passenger transport facilities | Two spaces, plus one space per vehicle, plus 0.5 spaces per full-time equivalent employee
Education establishments
  - Where pre-school with normal school Hours | One space per four children, plus one space per 1.5 full-time equivalent staff.
  - Where primary or secondary school | One space per 1.5 full-time equivalent staff, plus one space per 50 students
  - Above secondary school | One space per 1.5 full-time equivalent staff, plus one space per 8 students
Hospitals (not including a day surgery facility – refer to medical centres)
  - Where a nursing home, hospice, or similar long-stay establishment | One space per two beds, plus one space per two staff, plus ambulance spaces
  - One space per six nursing home beds, plus one space per two staff.
  - Note – Calculate staff spaces on the maximum number of staff at any one time. Where a mixture of these activities occurs, calculate vehicle parking requirements based on the activity mix
Child care centres | One car space per eight children, plus 0.75 spaces per staff member. Parking designated for staff may be provided as single file parking where practical.
Place of public worship | One space per three seats
Recreation facilities (indoor)
  - Squash | Three spaces per court
  - Indoor cricket or other court game | Twenty spaces per pitch or court
  - Swimming | Fifteen spaces, plus one space per 100m² GFA (indoor pool)
  - Gymnasium | One space per 10m² GFA
  - Notes - Where a mixture of these activities occurs, calculate vehicle parking requirements based on the activity mix. Where a facility combines a number of sporting activities in one area, determine the vehicle parking requirement based on the highest use activity.
Timber yard | One space per 50m²
Transport depots | One space per vehicle, plus one space per two full time equivalent employees
### Development Type

<table>
<thead>
<tr>
<th>Development Type</th>
<th>Car Parking Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck depots</td>
<td>One space per vehicle, plus one space per two full time equivalent employees</td>
</tr>
<tr>
<td>Vehicle body repair workshops</td>
<td>Two spaces, plus one space per 50m² GFA</td>
</tr>
<tr>
<td>Vehicle repair stations</td>
<td>Two spaces, plus one space per 50m² GFA</td>
</tr>
<tr>
<td>Vehicle sales or hire premises</td>
<td>One space per 130m² GFA</td>
</tr>
<tr>
<td>Veterinary hospitals</td>
<td>Three spaces per practitioner, plus one space per full time equivalent employee</td>
</tr>
<tr>
<td>Warehouse or distribution centres</td>
<td>One space per 100m²</td>
</tr>
</tbody>
</table>

### 3.16 NON-DISCRIMINATORY ACCESS

#### Objectives

- To ensure development has non-discriminatory access that accommodates all people.

#### Controls

1. The design and construction of development must ensure that non-discriminatory access is provided to enable all users of that development to access the same level of service/use.

2. Where development is listed in Table 8, a Disability Access Audit must be prepared in accordance with Council’s Non-discriminatory Access Guideline and submitted to Council. The Disability Access Audit must be prepared by an accredited access consultant.

#### Note:

Refer to Council’s Non-discriminatory Access Guideline for further information.

#### Note:

A Disability Access Audit may be waived for some developments at the discretion of the assessing officer for some Change of Use proposals.

#### Table 8 - Development types requiring a Disability Access Audit

<table>
<thead>
<tr>
<th>Amusement centres with a total floor area of 500m² or more</th>
<th>Markets with a total floor area of 500m² or more</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backpackers’ accommodation with 20 or more bedrooms</td>
<td>Manufactured home estate/caravan park</td>
</tr>
<tr>
<td>Boarding houses with more than 20 rooms</td>
<td>Medical centre</td>
</tr>
<tr>
<td>Business/commercial premises with a total floor area of 500m² or more</td>
<td>Mixed use development with a total floor area of 500m² or more</td>
</tr>
<tr>
<td>Child care centre</td>
<td>Multi-dwelling housing with 10 or more dwellings</td>
</tr>
<tr>
<td>Community facility</td>
<td>Nightclub</td>
</tr>
<tr>
<td>Educational establishment</td>
<td>Passenger transport facilities</td>
</tr>
<tr>
<td>Entertainment facility</td>
<td>Place of public worship</td>
</tr>
<tr>
<td>Function centre</td>
<td>Recreation facilities – indoor, outdoor and major</td>
</tr>
<tr>
<td>Group home</td>
<td>Registered club</td>
</tr>
<tr>
<td>Health consulting rooms with four or more consulting rooms</td>
<td>Retail premises with a total floor area of 500m² or more</td>
</tr>
<tr>
<td>Health services facilities</td>
<td>Residential care facility</td>
</tr>
</tbody>
</table>
3.17 SAFETY AND SECURITY

Objectives

a. To assist the development in mitigating opportunities for criminal activity, behaviour, and perceived opportunities for crime.

b. To ensure a development contributes to the liveability, safety and security of its users.

Controls

1. Developments must ensure that the following Crime Prevention Through Environmental Design (CPTED) principles have informed the design of the proposed development:

i. Surveillance – Developments must be designed and managed to maximise the potential for passive surveillance;

ii. Access Control – Developments must be designed so as to make them legible for users without losing the capacity for variety and interest;

iii. Territorial Reinforcement – Developments must be designed to define clearly legitimate boundaries between private, semi private and public space; and

iv. Space Management – Developments must be designed and detailed to minimise damage and the need for undue maintenance, without undermining the aesthetic and functional qualities of the building.

Note: Refer to Council’s Crime Prevention Through Environmental Design Guideline for further information on CPTED principles.

2. Where development:

i. is listed in Table 9, or

ii. is valued at $5,000,000 or more, or

iii. has a gross floor area greater than 5,000m², or

iv. will be open to the public between the hours of 9pm and 6am, a Crime Risk Assessment must be prepared and submitted to Council.

3. The Crime Risk Assessment should be prepared by a person who has undertaken the NSW Police Service ‘Safer by Design’ course (or equivalent) and must:

i. Analyse the types of crime that may be prevalent in the area, and to which the development may be susceptible;

ii. Provide information as to how the design was informed by the CPTED principles; and

iii. Inform the design, construction or future management practises of the development (eg: building materials, signage, lighting, landscaping, security patrols, maintenance and graffiti removal practices).

4. Any recommendations or shortfalls identified by a Crime Risk Assessment are to be implemented into the design of the development to the satisfaction of the assessing officer.
Note: Refer to Council’s *Crime Prevention Through Environmental Design Guideline* for further information on what needs to be covered in a Crime Risk Assessment.
Table 9 - Development types requiring a Crime Risk Assessment

<table>
<thead>
<tr>
<th>Development type</th>
<th>Crime Risk Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child care centres</td>
<td>Service stations</td>
</tr>
<tr>
<td>Development involving the provision of publicly accessible open space</td>
<td>Car parks</td>
</tr>
<tr>
<td>Industries comprising more than one unit</td>
<td>Seniors living developments and hospitals with more than 30 beds</td>
</tr>
<tr>
<td>Passenger transport facilities</td>
<td>Sex service premises</td>
</tr>
<tr>
<td>Freight transport facilities</td>
<td>Takeaway food and drink premises including, drive-thru establishments, bottle shops, and fast food outlets (such as McDonalds)</td>
</tr>
<tr>
<td>Registered clubs</td>
<td>Tourist and visitor accommodation</td>
</tr>
</tbody>
</table>

3.18 CUT AND FILL

Objectives

- To minimise land shaping, particularly outside the building footprint.
- To ensure development is on a stable site.
- To minimise the impact on groundwater flow.
- To ensure that development does not concentrate surface water flows to adjoining properties.
- To minimise the extent of earthworks, stormwater infrastructure and retaining structures and the associated costs.

Controls

1. Fill is not permitted within core riparian zones, within the Lakefront Development Area or the Foreshore Development Area, or within the extent of the 100 year probable ARI (1% AEP) flood event.
2. Cut and fill associated with a development must only occur within the building and carpark footprint.
3. Cut and fill must comply with the provisions in Table 10.
4. Retaining structures greater than 1m in height must be designed by an engineer, and the certification details lodged with the development application.
5. Batter slopes must not exceed a gradient of 1:4, unless stabilised by dense planting.
6. Fill must not contribute to unreasonable impacts on amenity or the redirection of water onto adjoining properties.
7. Any fill used must be certified Virgin Excavated Natural Materials, certified Excavated Natural Material or uncontaminated engineered fill.

Table 10 - Requirements for cut and fill works

<table>
<thead>
<tr>
<th>Location</th>
<th>Type of Works</th>
<th>Height</th>
<th>Other Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>within building footprint</td>
<td>cut and/or fill - retained</td>
<td>4m max</td>
<td></td>
</tr>
<tr>
<td>within 2m of a boundary</td>
<td>cut and/or fill - retained</td>
<td>not permitted</td>
<td>landscape planting to area between boundary and retaining wall</td>
</tr>
<tr>
<td>remainder of site</td>
<td>cut and/or fill - retained</td>
<td>2.0m max</td>
<td></td>
</tr>
</tbody>
</table>

Note*: distance to a boundary is measured from the face of the retaining wall
4 OPERATIONAL REQUIREMENTS

4.1 DEMOLITION AND CONSTRUCTION WASTE MANAGEMENT

Objectives

a. To reduce demolition waste by maximising beneficial reuse of infrastructure, buildings and materials onsite.
b. To avoid creating construction waste wherever possible.
c. To enable maximum diversion of demolition and construction waste to reuse, recycling or composting.
d. To ensure that waste management is planned across all demolition and construction stages so that reusable resources and waste can be appropriately and effectively stored and removed safely from site without adverse impacts on local amenity.

Controls

1. Applications must provide a completed Demolition Waste Management Plan (WMP)(where there are demolition works) and a Construction WMP (for all construction works), in accordance with Chapter 2 (for Demolition) and Chapter 3 (for Construction) of the Lake Macquarie City Council Waste Management Guidelines unless the development is:
   i. Permitted without consent in this zone
   ii. Agriculture (other than intensive agriculture)
   iii. Drainage
   iv. Earthworks
   v. Rail lines
   vi. Roads
   vii. Signs
   viii. Stormwater management facilities
   ix. Utility installations

   These plans must be provided to any relevant person involved in the demolition and/or construction, including architects, project managers, builders, contractors and sub-contractors.

2. The Demolition WMP must describe how the proposal avoids creating waste and how it maximises the reuse and recycling of demolition and construction materials.

3. The following must be shown on scaled plans to be submitted with the development application for demolition and construction stages:
   i. waste storage area(s) with bins and equipment all shown to scale;
   ii. waste collection area(s) with all bins shown to scale (if different from storage areas);
   iii. waste carting route(s) from buildings to waste storage area(s);
   iv. bin carting route(s) from waste storage to collection point(s); and
   v. for developments proposing onsite collection, the waste collection vehicle route, swept paths and clearances.

4.2 OPERATIONAL WASTE MANAGEMENT

Objectives

a. To ensure that waste management infrastructure and operational procedures are an integral part of the development’s design and ongoing management.
b. To ensure sufficient volume of equitably accessible, safe, hygienic and aesthetically appropriate waste storage is provided on the property to minimise negative impacts of waste management on occupants and neighbours.

c. To enable maximum opportunities for separation of reusable, recyclable, compostable and problem wastes from residual garbage bins.

d. To ensure equitable access for all occupants to opportunities to maximise diversion of waste.

e. To provide flexibility to expand or reconfigure waste separation systems, so that owners and occupants have options to access a range of waste services.

f. To ensure secure separation of commercial waste from residential waste storage and collection.

g. To provide unobstructed waste collection point(s) that are safely and efficiently accessible by Council waste collection vehicles wherever possible.

h. To provide unobstructed, safe access to move bins and bulk waste (such as furniture and whitegoods) between storage and collection points.

Controls

1. An Operational Waste Management Plan (WMP) must be prepared in accordance with the Lake Macquarie Waste Management Guidelines and submitted with the development application for all identified in Table 11, in other parts of this Development Control Plan or when Council identifies that particular circumstances warrant it.

Table 11 - Uses requiring an Operational Waste Management Plan

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dwellings</td>
</tr>
<tr>
<td>Commercial and retail, recreation and tourism facilities</td>
</tr>
<tr>
<td>Industrial developments and infrastructure</td>
</tr>
<tr>
<td>Events</td>
</tr>
<tr>
<td>Subdivisions</td>
</tr>
</tbody>
</table>

2. The Operational WMP must address all wastes that will be generated from the operation of the premises. The plan must maximise opportunity for separation from general waste of reusable, recyclable and compostable materials for reuse, recycling and composting wherever possible.

3. The development application must demonstrate - in the Operational WMP and on plans with bins, equipment, waste collection vehicle swept paths and clearances all shown to scale - that the development has sufficient and usable:
   i. bin type, sizes, numbers and collection frequency; and
   ii. internal storage within premises; and
   iii. waste carting route(s) from premises to external waste storage area(s); and
   iv. external waste storage areas; and
   v. bin carting route(s) from waste storage to waste collection point(s); and
   vi. waste collection point(s);
   vii. for developments proposing onsite collection, the waste collection vehicle route(s), swept paths and clearances; and
   viii. waste management information guide for owners and occupants.

4. For developments with the following specific land uses, the development and Operational WMP must address other matters as identified in the Lake Macquarie Waste Management Guidelines:
   i. boarding houses and hostels; group homes; short-term rental accommodation; social housing; and seniors' living developments;
   ii. commercial and retail premises
iii. veterinary hospitals;
iv. aged care facilities;
v. child care centres;
vi. service stations;
vii. public and private recreation; and amusement and functions centres and entertainment facilities;
viii. vehicle repair workshops and depots;
ix. sustainable aquaculture; and
x. light, heavy and general industries, hazardous, offensive and high technology industries; infrastructure; and waste management or resource recovery facilities.

To demonstrate compliance with the Lake Macquarie Waste Management Guidelines.

5. If the development is not designed to enable Lake Macquarie City Council waste services, a letter must be provided from a private waste contractor advising how they are able to provide the required garbage, recycling and green (garden and food) waste services and (if needed) access the premises.

4.3 ON-SITE SEWAGE MANAGEMENT

Objectives

a. To ensure that land is suitable for on-site sewage management, and that on-site sewage management systems are designed to operate sustainably, without resulting in environmental harm or risk to public health.

Controls

1. On-site sewage management must not be located on sites:
   i. Where connection to reticulated sewer is available (this requirement does not apply to grey water treatment systems); or
   ii. Below the 20-year ARI flood level.

2. Where an on-site sewage management system is proposed, an assessment report must be provided to determine land capacity for sewage effluent. An appropriately qualified consultant must carry out the assessment. The site assessment must:
   i. Be undertaken in accordance with the Environmental Health Protection Guidelines, and On-site Sewage Management for Single Households;
   ii. Recommend suitable wastewater treatment technology;
   iii. Include water balance calculations for determination of the size of the effluent irrigation area based on zero wet weather storage requirements; and
   iv. For greywater treatment systems, it must be demonstrated that the proposed system complies with the NSW Guidelines for Greywater Reuse in Sewered, Single Household Residential Premises.

3. Applications for sewage treatment systems must include:
   i. Sewerage Site Plan (1:200) indicating the location of the treatment system, disposal area, and buffer distances to boundaries, dwellings, water courses and other significant features on the site; and
   ii. Detailed plans and sections of the proposed effluent disposal system.

4. Other than for greywater treatment systems, surface and subsurface irrigation areas should be made up of irrigation zones that are a minimum 300m² and maximum 500m². Multiple irrigation zones must be dosed via an automatic irrigation controller or indexing valve.
5. Pump-out septic systems are only acceptable where on-site disposal of effluent is not feasible, and where access is available for a pump-out service to be rendered safely from a public road at the property boundary.

### 4.4 LIQUID TRADE WASTE AND CHEMICAL STORAGE

**Objectives**

a. To ensure that liquid trade waste is disposed of appropriately, and does not enter the environment.

b. To ensure that chemicals associated with a development are stored in a secure manner.

**Controls**

1. Where development is proposed that will generate liquid trade wastes, evidence of a liquid trade waste agreement with Hunter Water must be provided. On-site treatment and/or disposal of liquid trade waste will not be permitted.

2. Developments that generate liquid trade waste must ensure that this waste is adequately contained and bunded to prevent pollution entering the environment.

3. Where chemicals are stored within, or as part of development, those chemicals must be adequately contained and bunded to prevent chemicals entering the environment unintentionally in the event of a spill, flooding, or any other event that may lead to the escape of chemicals.

4. All containment and bunded areas must drain to the reticulated sewerage system under agreement with Hunter Water. No on-site treatment or disposal of liquid trade waste or spilt chemicals will be permitted.

### 4.5 EROSION AND SEDIMENT CONTROL

**Objectives**

a. To ensure that development is designed to prevent erosion by minimising disturbance, retaining vegetation and reducing the need for earthworks.

b. To prevent erosion and sediment-laden run-off during site preparation, construction and the ongoing use of land.

c. To ensure that a number of integrated solutions, using a treatment train approach, are implemented for the control and treatment of erosion and sediment.

**Controls**

1. For proposals where the area of soil disturbance is less than 250m², appropriate erosion and sediment control measures must be installed and maintained. This will prevent pollutants from entering water courses during construction and until 70% ground cover is attained.

2. For proposals where the area of soil disturbance is more than 250m² but less than 2500m², an Erosion Sediment Control Plan (ESCP) must be prepared and lodged, in accordance with Council’s Erosion and Sediment Control Guideline.

3. For proposals where the area of soil disturbance is more than 2500m², a Soil and Water Management Plan, identifying erosion prevention and sediment control measures, must be prepared and lodged, in accordance with Council’s Erosion and Sediment Control Guideline.

4. The maximum area of soil exposure at any one time must not exceed 2.5 hectares.

**Note:** Council may vary the requirements, especially where there is a higher or lower risk of polluting receiving waters. Further information may be required for any site depending on, but not limited to, the calculated soil loss, sediment type and an assessment of site constraints and opportunities.
4.6 AIR QUALITY

Objectives

a. To ensure that development does not adversely affect air quality beyond the National Environment Protection Measure (Ambient Air Quality) standard for criteria air pollutants.

b. To ensure that measures are implemented to maintain air quality.

c. To ensure that odours and emissions do not have an unreasonable impact on the amenity of neighbouring properties, or the health of their occupants.

d. To ensure that odours and emissions do not have an unreasonable impact on public health.

e. To ensure that emissions do not have an unreasonable impact on natural environment.

Controls

1. An air quality report must be prepared by an air quality/odour expert where a proposed development has the potential to adversely affect air quality. This report must:

   i. Consider the information provided on Council’s Local Air Quality Maps;

   ii. Address impacts caused by construction and ongoing operation or occupation of the development;

   iii. Identify emissions, and measures to mitigate the overall impact, and the impact on nearby residences and occupants of other properties especially sensitive receivers; and

   iv. Be prepared in accordance with the Approved Methods for the Modelling and Assessment of air pollutants in New South Wales and other requirements prescribed in State and Federal legislation.

Note: Council’s air quality map is based on modelling air pollution in the local government area and identifies areas where the Criteria Air Pollutants exceed the National Environment Protection Measure (Ambient Air Quality) standard.

4.7 NOISE AND VIBRATION

Objectives

a. To minimise the generation of noise and/or vibration and to mitigate associated adverse impacts to the amenity of neighbouring properties, their occupants, and the occupants of the proposed development.
**Controls**

1. Where proposed development has the potential to produce an adverse noise or vibration impact on occupants of the site or of nearby properties, an acoustic and vibration study must be prepared by a qualified consultant, to Council’s satisfaction.

2. Noise or vibration generated by development must not exceed the criteria stipulated in the [NSW Industrial Noise Policy](#) or the [Noise Guide for Local Government](#) at the property boundary of the noise source, or at a receiving lot boundary.

3. Measures must be implemented to ensure that any noise or vibration generated is not offensive, in accordance with the [Noise Guide for Local Government](#).

4. During construction, the operating noise level of machinery, plant and equipment must comply with the [Noise Guide for Local Government](#).

5. A suitably qualified acoustics consultant must prepare a Noise Management Plan where construction is proposed to exceed 26 weeks.

6. Noise generating operations and outdoor operations must only occur between 7am and 6pm Monday to Saturday.

7. Council may request at any stage an independent report to confirm that noise emissions are within acceptable limits; such costs are to be borne by the applicant/ operator.