

RELEVANT CONTROL		COMMENT	COMPLIES
Residential Flat Buildings and Multi Dwelling Housing Controls			
Density			
	a) The maximum number of dwellings which can be erected on a particular site shall be calculated in accordance with the density requirements contained in Clause 4.5B of Ryde Local Environmental Plan 2010.	There is no specific density requirement in the LEP for this site.	N/A
	b) The number of small one bedroom dwellings in any development shall not exceed 50% of the total number of dwellings on site.	One bedroom units comprise 10% of the total number of units in the Concept Plan development and 19% in Stage 1.	Yes
Height of Buildings			
	a) A residential flat building must comply with Ryde Local Environmental Plan 2010 Height of Buildings Map and must not exceed the number of storeys contained in table 1 (Figure 3.4.01).	See comments above.	N/A
Front, Side and Rear Setbacks			
	a) The minimum setback for a residential flat building from a front rear and side boundary, shall be in accordance with the setbacks contained in Table 2 (Figure 3.4.02).	See comments above. The Concept Plan building footprints are generally consistent with the setbacks identified in Part 4.2, Section 4, of the DCP, the area specific controls for the MEA addressed above.	N/A
Encroachment on Setbacks			
	a) Residential flat buildings should be designed so as to produce irregular elevations. In order to achieve this, Council may allow a variation to the front, side and rear setbacks prescribed in the table in Figure 3.4.02. No encroachments will be permitted on the setback required to Classified Roads specified in Table 2 (Figure 3.4.02).	No encroachments into the setbacks are proposed in Stage 1 Project contained in Section 4.2 of the DCP for the Meadowbank area. Noted for further stages.	Yes

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	<p>In respect of residential flat buildings on properties fronting a road other than a main or country road, a portion of an external wall or a balcony may, at Council's discretion, be permitted to stand closer to the front boundary specified in Table 2 (Figure 3.4.02) provided:</p> <ul style="list-style-type: none"> a) The encroachment on the specified setback does not exceed 0.5m – 1 storey building, 1.5m – 2 or 3 storey building; b) The portion of the external wall, excluding balconies, so set back does not exceed 50% of the total length of the front elevation; c) The setback of the remainder of the external wall being such, that the unbuilt upon area between the building and the front boundary, calculated on the specified setbacks, is maintained; d) The portion of the external wall and/or balconies so set back takes into consideration the location of structures on adjoining properties to ensure that the general streetscape and adequate visual privacy is maintained; and e) Balconies are not enclosed to a height of greater than 1.2m. 	
Side and Rear Setbacks		
	<p>A portion of an external wall or a balcony may, at Council's discretion, be permitted to stand closer to the adjacent side and/or rear boundary than that specified in the diagram in Figure 3.4.03 provided:</p> <ul style="list-style-type: none"> a) The portion of the external wall and/or balcony so set back does not encroach more than 25% on the specified setback; b) A minimum setback of 3m is maintained; c) The portion of the external wall, excluding balconies, so set back does not exceed 50% of the total length of the wall adjacent to the respective boundary; d) The setback of the remainder of the external wall being such, that the unbuilt upon area between the building and the boundary, calculated on the specified setbacks, is maintained; e) The portion of the external wall and/or balcony so set back takes into consideration the location of structures on adjoining properties to ensure adequate visual privacy is maintained; and f) Balconies are not enclosed to a height of greater than 1.2m. 	<p>No encroachments into the setbacks are proposed in Stage 1 Project contained in Section 4.2 of the DCP for the Meadowbank area. Noted for further stages.</p> <p>N/A</p>
Internal Setbacks		
	<p>a) Windows of habitable rooms should not be located less than 10m from windows of habitable rooms of adjacent dwellings, on the site or on adjoining properties, unless overlooking is prevented by the type or location of windows, or by permanent screening between windows to the satisfaction of Council.</p>	<p>Where habitable windows are less than 10m apart screening will be provided.</p> <p>Yes</p>

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Balconies			
	a) A balcony should be provided to each dwelling with a residential flat building.	Balconies or terraces are provided to each apartment.	Yes
	b) Balconies may be dispensed within multi dwelling housing.	Balconies or terraces are provided to each apartment.	Yes
	c) Balconies are not to be enclosed to a height greater than 1.2m.	Balconies are enclosed to a height greater than 1.2m. Stage 1 Project complies.	Yes
Parking			
Quantity	<p>a) Residential flat developments (other than units for seniors housing) shall provide on-site car parking at the following rates:</p> <p>i) For properties within 400m of Victoria Road, Epping Road or a Railway Station:</p> <p>1.0 car space per one bedroom dwelling; 1.2 car spaces per two bedroom dwelling; 1.6 car spaces per three bedroom dwelling; and 1.0 car spaces per four dwellings for visitor parking.</p> <p>ii) For other properties:</p> <p>1.0 car space per one bedroom dwelling; 1.4 car spaces per two bedroom dwelling; 1.6 car spaces per three bedroom dwelling; and 1.0 car spaces per four dwellings for visitor parking.</p>	<p>Available Car Parking:</p> <p>Basement – 210 Upper Basement – 119 Lower Ground Floor – 57 TOTAL - 386</p>	yes
	b) The total number of parking spaces will be taken to the highest whole number.	386	Yes
	c) Parking in a tandem formation may be permitted for up to 50% of dwellings to which 2 car spaces are to be allocated.	No tandem spaces are proposed in Stage 1 Project.	Noted
	d) All parking spaces and manoeuvring areas shall be designed so vehicles may freely enter and leave the property in a forward direction.	Car parking areas in Stage 1 comply with this control.	Yes
	e) All parking areas shall be drained, by gravity, to Council's stormwater drainage system.	Parking areas will be adequately drained to the stormwater system, refer to Integrated Water Management Report attached at Annexure 17.	Yes

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	f) All parking must be designed to be in accordance with the relevant Australian Standards.	Parking in Stage 1 has been designed to comply with relevant Australian Standards.
Parking under Buildings	a) All parking areas located beneath a residential flat building shall be located such that: i) a clear ceiling height of 2.2m is maintained; ii) the ceiling height does not exceed an average of 1.5m above natural ground level along the appropriate elevation; iii) the ceiling height of the parking area does not exceed 2.1m above natural ground level at any point; and iv) where the parking area encroaches within the specified setback in Figure 3.4.03, the height of the roof of the parking area does not exceed 0.75m above natural ground level at the boundary with adjoining property.	Underground parking areas have been designed to comply with the height and setback requirements of the DCP.
	b) Consideration may be given to an averaging of the requirements of (ii) and (iv) within the specified setback area, where it can be demonstrated that such a variation would not have any adverse impact on the amenity of adjoining properties by loss of privacy, overshadowing or the visual impact of the area between buildings on the adjoining properties.	N/A. No variation is sought in Stage 1.
	c) All parking areas under buildings shall be ventilated, either naturally or by mechanical means, in accordance with Council's standards.	Underground car parks will be ventilated in accordance with Council requirements.
Driveways	a) All driveways within the property, where not used as manoeuvring area, shall have a minimum clear width of 4 metres and a minimum pavement width of 3 metres. Greater widths may be required, at Council's discretion, depending on the number of dwellings served.	Stage 1 Project car park driveway complies.
	b) The maximum grade of any driveway shall be 1 in 6. Suitable transitional grades to Council's satisfaction shall be required at changes of grade.	The gradient of driveways for Stage 1 do not exceed 1 in 6.
	c) All driveways are to be suitably paved. Preference should be given to natural or earth coloured paving materials. The extent of driveways should be minimised to avoid excessive amounts of hard paved surfaces. Details regarding all hard paved areas will be required to be submitted to and approved by Council prior to the release of the Construction Certificate.	The Stage 1 Project car park driveway will be paved in natural coloured tones and integrated with landscaping to soften their appearance.
	d) Driveways should be designed so as to reduce the visual impact of large paved areas viewed from the street, with driveways meandering to provide pockets of landscaping to eliminate the "gun barrel" effect of driveways.	Only one driveway entry is proposed to the Stage 1 Project development, located to minimise its visual impact on the streetscape.

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Visitor Parking Location	a) Consideration should be given to the location of visitor car parking spaces in order that any security which may be required for residents' parking can be installed without impeding access to visitors' parking.	Access to visitor parking will be clearly separated from resident parking in Stage 1 Project and accessed via a resident controlled security system.	Yes
Landscaping			
Quantity	<p>a) The minimum landscaped area within each development shall be calculated in accordance with the landscaping requirements contained in the table below (Figure 3.4.04).</p> <p>b) NOTE: this table lists the minimum landscape requirements for various size apartments. This table refers to other medium and high density residential areas within the LGA and does not refer to the MEA.</p>	The site is not located in any of these areas. Significant landscape areas are proposed.	N/A
	b) Areas with a clearance of less than 1.3m, such as areas under balconies, shall be excluded from landscaped area.	Noted.	Noted
Landscaping Treatment	a) Landscaping should be an integral part of the overall design of the development. The whole of the allotment external to buildings should be landscaped to Council's satisfaction in accordance with a plan to be submitted with the Development Application and completed prior to the occupation of the development or issue of a Certificate of Classification. This plan is required to be prepared by a qualified Landscape Architect and show details of all existing landscape features, including trees proposed to be removed. It is Council's policy to preserve existing trees of landscape significance, wherever possible.	The high quality landscape design is a core component of the development. Open spaces, pathways, planting and amenities have been carefully located within the development and integrated with the foreshore area. Refer to Landscape Plan and Report attached at Annexure 13 .	Yes
	<p>b) The landscaping treatment should:</p> <ul style="list-style-type: none"> i) Ensure that trees and shrubs have an informal and softening effect on the development and the overall environment, with trees and shrubs planted in sufficient numbers and scale to achieve this aim; ii) Screen poor views; iii) Give privacy to occupants and neighbouring properties; and iv) Be easily maintained. 	Landscaping comprises a mixture of locally occurring shrubs and trees. Refer to Landscape Plan and Report attached at Annexure 13 .	Yes
Private Landscaped Areas	a) Each dwelling within a multi dwelling housing development shall have at least one area of private landscaped open space attached to and accessible from the dwelling. The private open space shall have a minimum area of 30m ² and provided to Council's satisfaction.	Ground floor units are provided with courtyards/ terraces.	Yes
	b) Private landscaped areas located within the front building line shall only be delineated by landscaping or low fencing consistent with other similarly situated fencing in the locality. It will be necessary for pedestrian access to be available to these areas, other than through the dwelling for the purposes of servicing and maintenance. This access should be paved and at least 1 metre wide and may be provided via a garage.	Private landscaped areas within the front building line will have appropriate fencing.	Yes

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Common Landscaped Areas	a. A portion of the landscaped area should be provided behind the front building line as communal open space. Preferably this space should be so located to provide dwellings within the development with an internal aspect.	Communal landscaped areas are provided and located centrally. The 'U-shape' design of buildings creates opportunity for communal areas which provide units with an internal aspect.	Yes
General Requirements			
Materials	a) Details of all finished surface materials, including colour and texture to be used in construction are to be submitted to Council with the Development Application	A schedule of materials is submitted with the EA.	Yes
	b) Preference should be given to materials with natural textures and colouring	Colours are neutral and sympathetic to the natural setting. A schedule of materials is submitted with the EA.	Yes
Fencing	a) The site is to be fenced in accordance with a plan indicating the height, the type of material and construction and extent of all fencing is to be approved prior to construction.	Fencing details are submitted with the EA refer Landscape and architectural plans.	Yes
	b) A wall, fence or kerb shall be constructed along the front alignment of the property. Fences within the front setback shall not be of paling construction or exceed 1m in height. Boundary fences should not exceed 1.8m in height.	Fencing will not exceed the height requirements of the DCP.	Yes
Clothes Drying Facilities	a) Adequate clothes drying facilities shall be provided for each dwelling. These facilities can be provided either in the form of mechanical dryers or external clothes lines. Where external clothes lines are provided, they shall be suitably screened from view from any street, public place or adjoining property.	Apartments are provided with separate internal laundries suitable for mechanical dryers.	Yes
	b) Clothes line accommodation shall be provided at the rate of 7.5m of line/dwelling.	External clothes lines are not proposed on the basis of significant resident objections to them being proposed in other developments in the area and those applicants being required to remove them by Council.	No
Noise	a) Buildings should be designed so as to minimise noise transmission between dwellings and between the development and that adjoining. Buildings are to comply with the requirements of the Building Code of Australia.	The development complies with BCA refer BCA report at Annexure 25 .	Yes
	b) All noise producing plant such as ventilation equipment, swimming pool motors, air conditioners and the like are to be installed to Councils satisfaction.	Noise producing equipment will be located to minimize impacts.	Yes
Services	a) All water services are to be in copper or another non-corrosive material.	Utility upgrades will comply with Sydney Water requirements.	Yes

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	b) All drainage pipes, except downpipes, are to be concealed in ducts.	Utility upgrades will comply with Sydney Water requirements.	Yes
	c) All power and telephone lines shall be underground from the street alignment. All developments should have sufficient electricity capacity to accommodate the likely future needs of the occupants of that development.	Underground cabling is proposed.	Yes
	d) All dwellings are to be connected by gravity flow to the Sydney Water sewer to the satisfaction of the Council and the Board before occupation. It will be necessary for the applicant to submit written evidence from Sydney Water, prior to the release of Construction Certificate that satisfactory arrangements have been made for the provision of water and sewerage facilities for the properties being developed north of Epping Road. In the case of properties north of Talavera Road and east of Alma Road, it will be necessary for such evidence to be submitted prior to the issue of Development Consent.	Utility upgrades will comply with Sydney Water requirements.	Yes
Health Requirements			
Garbage Storage Areas	a) The storage area is to consist of a brick or other approved masonry structure with a concrete floor and is to be sufficient to screen garbage carts therein from view.	Central garbage storage areas are provided in the underground car parks.	Yes
Energy Smart/ Waterwise			
New Dwelling Houses, Dual Occupancy (attached), Multi Dwelling Housing (attached) or Senior Housing Developments	The requirements of BASIX applies to these developments, see www.basix.nsw.gov.au for more information.	The design of apartments will comply with BASIX. Stage 1 BASIX Certificates attached as Annexure 15.	Yes
Residential Flat Buildings (RFBs) including those contained in Mixed RFB/Commercial Developments Residential Conversion of Former Industrial Buildings	a) Any hot water system/s installed as part of a development or as a replacement must consider the most efficient option available to minimise greenhouse gas emissions (see diagram below as a guide). Note: The Federal Governments Energy Rating website has a comprehensive list of efficient hot water systems rated through the Minimum Energy Performance Standard (MEPS) and is currently working on a rating scheme. The preferred system should be no worse than heat pump. http://www.energyrating.gov.au/ .	The design of apartments shall comply with BASIX. Stage 1 BASIX Certificates are attached as Annexure 15.	Yes
	b) Any products installed as part of a development or as a replacement that are regulated for energy efficiency under the Australian Standards for Products and/or Minimum Energy Performance Standards (MEPS) must achieve a Minimum energy rating of 4.5 stars. Note: Products that carry an energy star label and are regulated under MEPS include	Energy efficient appliances will be installed in all apartments. Refer ESD Guidelines Report at Annexure 14.	Yes

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	refrigerators, freezers, clothes washers and dryers, dishwashers and air conditioners. The energy star rating as well as date of purchase of the product should be visible on the product at all times. The Federal Governments Energy Rating website has a comprehensive list of efficient appliances based on star ratings. http://www.energyrating.gov.au/ .		
	c) Ceiling/roof and walls must be fitted with insulation. Ceiling/roof insulation must be rated R3.0 or equivalent and wall insulation must have an R1.5 or equivalent rating. Insulation of cavity brick walls is not required,	The buildings are to be appropriately insulated and meet the requirements of BASIX.	Yes
	d) Water Efficient Fixtures: where new or replacement fittings are required shower heads shall be at least 3 star rated water efficient 4 star dual flush toilets and 4 star taps (for all taps other than bath outlets and garden taps), bathroom and kitchen taps shall be fitted with aerators; and water closets shall have a dual flush cistern.	The building will be installed with water efficient fixtures and will meet the requirements of BASIX.	Yes
	e) An external yard space or sheltered well-ventilated space for clothes drying must be provided and be suitably screened from view from any street, public place or adjoining property.	Internal separate laundries are provided for mechanical dryers. Freestanding portable clothes dryers can be individually purchased by residents.	Yes
	f) Any products installed as part of a development or as a replacement that are regulated for water efficiency under Water Efficiency Labelling and Standards (WELS) Scheme must obtain a Minimum WELS rating of 4.5 stars. Products that carry a star water label and are regulated under WELS include clothes washing machines and dishwashers. The water star rating as well as date of purchase of the product should be visible on the product at all times. The Federal Governments WELS website has a comprehensive list of efficient appliances based on star ratings. http://www.waterrating.gov.au/	The building will be installed with water efficient fixtures and appliances and will meet the requirements of BASIX.	Yes
	g) Wherever practicable, orient the development to reduce the need for artificial lighting by maximizing daylight in habitable areas, whilst minimizing heat and glare. Ways to achieve this includes skylights, atriums or light shafts and adjustable shading.	Particular consideration has been given to the orientate living spaces and balconies to maximize solar access for natural solar access.	Yes
Waste Minimisation Management			
Demolition	The application shall include: a) section 1 of the Waste management plan (see Schedule 1) completed and the following details on plans: i) location of on-site storage space or facilities for materials (for reuse) and containers for recycling and disposal ii) access to the site and within the site for collection vehicles.	A Waste Management Plan has been prepared for the proposed demolition works and is submitted with the EA, refer to Annexure 27.	Yes
Construction	a) The construction phase would require the completion of section 2 of the waste management plan (see Schedule 1).	A Waste Management Plan has been prepared for the proposed construction works and is submitted with the EA, refer to Annexure 27.	Yes

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Residential Buildings	b) For multi dwelling developments the application shall include: i) a completed waste management plan (see Schedule 1). ii) The following details on plans: <ul style="list-style-type: none">location of waste cupboard space within each dwelling unitlocation of waste storage and recycling area(s) per dwelling unit or located communally on-site. In the latter case this could be a garbage and recycling roomdetails of design for waste storage and recycling area(s) or garbage and recycling room(s). This should include floor plan, elevations and cross section drawings of the room and also materials and finishes location of communal composting area where applicable, design details of garbage chute system(s) and any volume reduction equipmentlocation of collection area.	A Waste Management Plan has been prepared for the operation of the proposed multi dwelling development and is submitted with the EA, refer to Annexure 27 .	Yes
Communal Facilities for Multi-dwelling Developments	a) Communal on-site waste storage and recycling area or garbage and recycling room must be provided in the following circumstances: i) Residential flat buildings and multi-level dwelling occupancy. ii) Single level multi dwelling developments where the number of bins would not fit comfortably on the street frontage or would detrimentally affect residential amenity. iii) Where the status of the roadway (heavy traffic) requires on-site access. iv) Where site characteristics make access to the street difficult for individual unit holders e.g. steep sites. v) Where such arrangements suit collection services.	A central garbage room is to be provided in the underground car park and waste containers will be moved to a suitably accessible area for clearing, this is detailed in the Waste Management Plan submitted with the EA.	Yes
	b) The area should be capable of accommodating Council's required number of standard waste containers and should be designed in accordance with current standards. Where such an area is proposed additional space for the storage of bulky waste such as clean-up materials awaiting removal or recycling should be provided.	(see comment above)	Yes
	c) On difficult or steep sites or sites with particular natural features (such as watercourses) or with two street frontages it may be appropriate to have a number of waste storage and recycling areas to minimise distances, prevent site pollution and facilitate collection.	There will be multiple garbage rooms servicing the development to minimize walking distance to residents; this is detailed in the Waste Management Plan submitted with the EA at Annexure 27 .	Yes
	d) For large scale proposals there may be a number of garbage and recycling rooms, operating in conjunction with a collection area located adjacent to the collection point. At appropriate times waste is transported from the rooms to this area for collection.	Multiple garbage rooms are proposed, the coordination of waste collection will facilitate ease of collection, refer to the Waste Management Plan.	Yes

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	e) In each case the onus is upon the managing body to ensure on-street placement where possible. Where for the reasons above this is not possible and Council or private vehicles must enter the site a separate collection area should be part of the design and legal access agreements obtained.	The collection of waste is detailed in the Waste Management Plan.	Yes
	f) Communal facilities should be managed to ensure that they are kept tidy and storage bins are not filled beyond the capacity of the container. Steps should be taken to ensure that recyclable materials can easily be placed into the correct storage bin. Communal facilities require regular maintenance.	The building manager will be responsible for maintaining the garbage rooms, refer to the Waste Management Plan.	Yes
Volume Reduction Equipment and Food Waste Disposal Units for Multi Storey Buildings	a) Compaction and other volume reduction equipment may be provided in the garbage and recycling room. Such equipment could save space on site where difficult design constraints occur. Volume reduction equipment should be considered for all buildings greater than 25 metres high.	Proposed buildings in Stage 1 are lower than 25 metres in height so not required.	NA
	c) In normal circumstances, there will not be a reduction in area requirements where such equipment is proposed. Council considers that area requirements should allow for possible changes in on-site waste management arrangements. Similarly, where food waste disposal units are provided within units there will not be a reduction in the area/facility requirements.	The garbage rooms will be of sufficient design to allow for flexible waste management and any potential change to the waste management.	Yes