

Enquiries: Tom Foulds
Our Ref: LDP117

25 May 2022

CDP Town Planning PO Box 8002 CLOISTERS SQUARE WA 6850

Dear Sir/Madam

Proposed Local Development Plan (Ocean Hill Stage 3) Lot 9007 Mandurah Road, Lakelands

I refer to the above mentioned Local Development Plan (LDP).

An assessment of the Local Development Plan has been undertaken. In accordance with the provisions of Clause 52(1)(a) of the Deemed Provisions for Local Planning Schemes, the City of Mandurah has determined to approve the Local Development Plan.

An endorsed copy is enclosed for your records, the City will make arrangements for the Local Development Plan to be made available through its Geographic Information System online.

Should you have any queries regarding this matter please contact Tom Foulds on 95503242 or via email Tom.Foulds@mandurah.wa.gov.au.

Yours sincerely

Aaron Lucas

Coordinator

Statutory Planning



LOCAL DEVELOPMENT PLAN No.4

Stage 3 Ocean Hill Private Estate, LAKELANDS Page 1 of 7

A CP Land Project







PLANNER: KG

PROJECTION: PCG 94



Unit 2, 464 Murray Stree Perth WA 6000 (08) 6333 1888 info@cdpaus.com.au www.cdpaus.com.au

WWW.cdpaus.com.au

Copyright CDP. No part of this plan may be
reproduced in any form without prior consent from
CDP. All care has been taken in preparation of this plan
but no responsibility to the consent of this plan
but no responsibility to the consent of th

All lots encompassed by this Local Development Plan (LDP) are pursuant to Clause 5 - Medium Density Single Houses in Structure Plan Areas (RMD Codes) of the City of Mandurah's Local Planning Policy LPP1 - Residential Design Codes Policy.

All additional Estate provisions proposed by this LDP constitute Residential Design Code (R-Codes) 'Deemed to Comply' requirements and are provided to ensure consistent built form outcomes.

All other requirements of the Town Planning Scheme and R-Codes shall be satisfied in all other matters.

Consultation with the adjoining or other landowners to achieve a variation to the R-Codes, as provided by this LDP, is not required.

		Local Development Plan Provisions – Ocean Hill Private Estate
Noise Management – Rail Noise		a) 'Package A', 'Package B' and 'Package C' – Deemed to Satisfy Construction Standards is required for the upper and lower floors of dwellings as identified on the LDP in accordance with the recommendations of the Transport Noise Assessment Report – Lloyd George Acoustics, January 2022 (Reference: 19044944-02A) – Appendix A refers.
		b) Building permit applications to the City of Mandurah must demonstrate compliance with the relevant 'Deemed to Satisfy Construction Standards', including the provision of mechanical ventilation. Alternative construction methodology can be used subject to City of Mandurah approval upon advice from a suitably qualified acoustic consultant.
		c) Specialist acoustic advice is required for specified lots where an upper floor is proposed as identified on the LDP.
MEDIUM DENSITY SINGLE HOUSES (RMD CODES) PROVISIONS – ALL DENSITIES		ADDITIONAL ESTATE BUILT FORM PROVISIONS – ALL DENSITIES
1. Street Setback and Front Fences (R-Codes 5.1.2 & 5.2.4)		 a) The design of dwellings for all corner lots shall include a side return which has at least one major opening facing the direction of the Secondary Street. The side return shall be articulated so to present as an extension of the front elevation and shall not be obstructed by visually impermeable fencing. b) Any Estate provided fencing/retaining on private lots shall not be modified without written approval from the City of Mandurah and shall be maintained as visually permeable by landowners where applicable. c) Lots with direct frontage to Public Open Space (i.e., Lots 152 – 155 Cardinal Loop & Lots 166 – 172 Fuji Way), shall provide a minimum building setback to the POS boundary of: i. 3.0m to main building line; and ii. 2.0m to an alfresco, verandah and/or balcony. d) Lots identified on the LDP as 'Bushfire Attack Level – Affected Lots' require a minimum 4.5m setback to the eastern lot boundary to achieve a BAL-29 rating; this in accordance with the requirements of the approved Bushfire Management Plan Addendum – Emerge Associates, March 2022 (Reference: EP15-019(33)-64) and/or any subsequent Bushfire Attack
Boundary Setbacks (R-Codes 5.1.3) Boundary Walls (R-Codes 5.1.3)	Per relevant density and development provisions under City of Mandurah's LPP 1 –	Level Assessment which may be incorporated as part of the building permit application. Nil Nil
Open Space (R-Codes 5.1.4) Garage Setbacks and Width and Vehicular Access (R-Codes 5.2.2, 5.3.3 and 5.3.5)	RMD Codes (Clause 5).	General a) Designated garage locations apply to some lots as identified on Plan; this referencing the side of the lot to which the garage should be located. Designated garage locations do not prescribe boundary walls. b) All other garage locations are subject to the location of infrastructure services, dedicated on-street parking bays and Estate retaining, landscaping, and fencing. It is not mandatory for garages to access the lot via a Secondary Street where available. c) Garages to corner lots may be exempt from being 0.5m behind the main part of the dwelling subject to: i. the garage protruding no greater than 1.5m forward of the main building line; and ii. provision of a portico, porch, or veranda to the Primary Street façade to offset the garage protrusion.
6. Overshadowing (R-Codes 5.4.1)		Nil
7. Privacy (R-Codes 5.4.2)		Nil
8. Other		a) The developer will provide street trees at a minimum rate of one tree per lot. b) No street trees or Estate retaining, landscaping, or fencing shall be removed, or modified, by the landowner without written consent from the City of Mandurah.

LOCAL DEVELOPMENT PLAN No.4

Stage 3 Ocean Hill Private Estate, LAKELANDS Page 2 of 7







Unit 2, 464 Murray Street

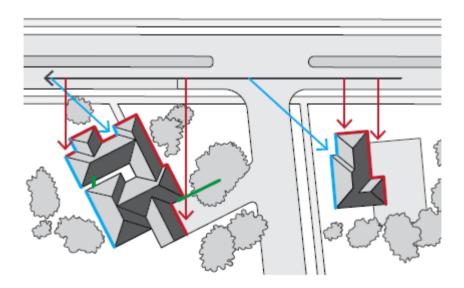
The packages and information provided on the following pages are taken from *Road and Rail Noise Guidelines* (September 2019).

Where outdoor and indoor noise levels received by a noise-sensitive land-use and/or development exceed the policy's noise target, implementation of quiet house requirements is an acceptable solution.

The quiet house packages are not the only solution to achieving acceptable internal transport noise levels. A suitably qualified acoustical engineer or consultant may also determine more tailored acoustic design requirements for buildings in a transport noise corridor by carrying out acoustic design in accordance with relevant industry standards. This includes the need to meet the relevant design targets specified in AS/NZS 2107:2016 for road traffic noise.

With regards to the packages, the following definitions are provided:

- Facing the transport corridor (red): Any part of a building façade is 'facing' the transport corridor if any straight line drawn perpendicular (at a 90 degree angle) to its nearest road lane or railway line intersects that part of the façade without obstruction (ignoring any fence).
- **Side-on** to transport corridor (blue): Any part of a building façade that is not 'facing' is 'side-on' to the transport corridor if any straight line, at any angle, can be drawn from it to intersect the nearest road lane or railway line without obstruction (ignoring any fence).
- Opposite to transport corridor (green): Neither 'side on' nor 'facing', as defined above.



Quiet House Package A

56-58 dB L_{Aeq(Day)} & 51-53 dB L_{Aeq(Night)}

	Orientation	Room		
Element		Bedroom Indoor Living and Work Areas		
External Windows	Facing	 Up to 40% floor area (R_w + C_{tr} ≥ 28): Sliding or double hung with minimum 10mm single or 6mm-12mm-10mm double insulated glazing; Sealed awning or casement windows with minimum 6mm glass. Up to 60% floor area (R_w + C_{tr} ≥ 31): Sealed awning or casement windows with minimum 6mm glass. Up to 80% floor area (R_w + C_{tr} ≥ 31). Sealed awning or casement windows with minimum 6mm glass. 		
	Side On	As above, except R_w + C_{tr} values may be 3 dB less or max % area increased by 20%.		
	Opposite	No specific requirements		
External Doors	Facing	 Fully glazed hinged door with certified R_w + C_{tr} ≥ 28 rated door and frame including seals and 6mm glass. Doors to achieve R_w + C_{tr} ≥ 25: 35mm Solid timber core hinged door and frame system certified to R_w 28 including seals; Glazed sliding door with 10mm glass and weather seals. 		
	Side On	As above, except R _w + C _{tr} values may be 3 dB less.		
	Opposite	No specific requirements		
External Walls	All	 R_w + C_{tr} ≥ 45: Two leaves of 90mm thick clay brick masonry with minimum 20mm cavity; or Single leaf of 150mm brick masonry with 13mm cement render on each face; or One row of 92mm studs at 600mm centres with: Resilient steel channels fixed to the outside of the studs; and 9.5mm hardboard or fibre cement sheeting or 11mm fibre cement weatherboards fixed to the outside; 75mm thick mineral wool insulation with a density of at least 11kgkg/m³; and 2 x 16mm fire-rated plasterboard to inside. 		
Roofs and Ceilings	All	 R_w + C_{tr} ≥ 35: Concrete or terracotta tile or metal sheet roof with sarking and at least 10mm plasterboard. 		
Outdoor Living Areas to		At least one outdoor living area located on the opposite side of the building from the transport corridor and/or at least one ground level outdoor living area screened using a solid continuous fence or other structure of minimum 2 metres height above ground level.		

Quiet House Package B

59-62 dB L_{Aeq(Day)} & 54-57 dB L_{Aeq(Night)}

Element	Orientation	Room		
		Bedroom Indoor Living and Work Areas		
External Windows	Facing	 Up to 40% floor area (R_w + C_{tr} ≥ 31): Fixed sash, awning or casement with minimum 6mm glass or 6mm-12mm-6mm double insulated glazing. Up to 40% floor area (R_w + C_{tr} ≥ 28):		
	Side On	As above, except R _w + C _{tr} values may be 3 dB less or max % area increased by 20%.		
	Opposite	As above, except R _w + C _{tr} values may be 6 dB less or max % area increased by 20%.		
External Doors	Facing	$ \begin{array}{lll} \bullet & \text{Fully glazed hinged door with certified} \\ R_w + C_{tr} \geq 31 \text{ rated door and frame} \\ & \text{including seals and 10mm glass.} \end{array} \\ \begin{array}{lll} \bullet & \text{Doors to achieve } R_w + C_{tr} \geq 28: \\ & \circ & 40 \text{mm Solid timber core hinged} \\ & \text{door and frame system certified} \\ & \text{to } R_w \ 32 \text{ including seals;} \\ \\ \bullet & \text{Fully glazed hinged door with} \\ & \text{certified } R_w + C_{tr} \geq 28 \text{ rated door} \\ & \text{and frame including seals and} \\ & \text{6mm glass.} \end{array} $		
	Side On	As above, except R _w + C _{tr} values may be 3 dB less or max % area increased by 20%.		
	Opposite	As above, except R_w + C_{tr} values may be 6 dB less or max % area increased by 20%.		
External Walls	All	 R_w + C_{tr} ≥ 50: Two leaves of 90mm thick clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester (24kg/m³). Resilient ties used where required to connect leaves. Two leaves of 110mm clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester insulation (24kg/m³). Single leaf of 220mm brick masonry with 13mm cement render on each face. 150mm thick unlined concrete panel or 200mm thick concrete panel with one laye of 13mm plasterboard or 13mm cement render on each face. Single leaf of 90mm clay brick masonry with: A row of 70mm x 35mm timber studs or 64mm steel studs at 600mm centres A cavity of 25mm between leaves; 50mm glasswool or polyester insulation (11kg/m³) between studs; and One layer of 10mm plasterboard fixed to the inside face. 		
Roofs and Ceilings	All	 R_w + C_{tr} ≥ 35: Concrete or terracotta tile or metal sheet roof with sarking and at least 10mn plasterboard ceiling with R3.0+ fibrous insulation. 		
Outdoor I	_iving Areas	At least one outdoor living area located on the opposite side of the building from the transport corridor and/or at least one ground level outdoor living area screened using a		

solid continuous fence or other structure of minimum 2.4 metres height above ground level.

Quiet House Package C

63-66 dB $L_{Aeq(Day)}$ & 58-61 dB $L_{Aeq(Night)}$

Element	Orientation	Room		
		Bedroom Indoor Living and Work Areas		
External Windows	Facing	 Up to 20% floor area (R_w + C_{tr} ≥ 31): Fixed sash, awning or casement with minimum 6mm glass or 6mm-12mm-6mm double insulated glazing. Up to 40% floor area (R_w + C_{tr} ≥ 34): Fixed sash, awning or casement with minimum 10mm glass or 6mm-12mm-10mm double insulated glazing. Up to 60% floor area (R_w + C_{tr} ≥ 34): Fixed sash, awning or casement with minimum 10mm glass or 6mm-12mm-10mm double insulated glazing. 		
	Side On	As above, except R_{w} + C_{tr} values may be 3 dB less or max $\%$ area increased by 20%.		
	Opposite	As above, except R_w + C_{tr} values may be $\stackrel{6}{ ext{d}}$ dB less or max % area increased by 20%.		
External Doors	Facing	 Not recommended. Doors to achieve R_w + C_{tr} ≥ 30: Fully glazed hinged door with certified R_w + C_{tr} ≥ 31 rated door and frame including seals and 10mm glass; 40mm Solid timber core side hinged door, frame and seal system certified to R_w 32 including seals. Any glass inserts to be minimum 6mm. 		
	Side On	As above, except R _w + C _{tr} values may be 3 dB less or max % area increased by 20%.		
	Opposite	As above, except R _w + C _{tr} values may be 6 dB less or max % area increased by 20%.		
External Walls	All	 R_w + C_{tr} ≥ 50: Two leaves of 90mm thick clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester insulation (24kg/m³). Resilient tie used where required to connect leaves. Two leaves of 110mm clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester insulation (24kg/m³). Single leaf of 220mm brick masonry with 13mm cement render on each face. 150mm thick unlined concrete panel or 200mm thick concrete panel with one layer of 13mm plasterboard or 13mm cement render on each face. Single leaf of 90mm clay brick masonry with:		
Roofs and Ceilings	All	 R_w + C_{tr} ≥ 40: Concrete or terracotta tile roof with sarking, or metal sheet roof with foil backer R2.0+ fibrous insulation between steel sheeting and roof battens; R3.0+ insulation batts above ceiling; 2 x 10mm plasterboard ceiling or 1 x 13mm sound-rated plasterboard affixed usin steel furring channel to ceiling rafters. 		

	At least one outdoor living area located on the opposite side of the building from the transport corridor and/or at least one ground level outdoor living area screened using a solid continuous fence or other structure of minimum 2.4 metres height above ground level.
--	--

Mechanical Ventilation requirements

In implementing the acceptable treatment packages, the following mechanical ventilation / air-conditioning considerations are required:

- Acoustically rated openings and ductwork to provide a minimum sound reduction performance of R_w 40 dB into sensitive spaces;
- Evaporative systems require attenuated ceiling air vents to allow closed windows;
- Refrigerant based systems need to be designed to achieve National Construction Code fresh air ventilation requirements;
- Openings such as eaves, vents and air inlets must be acoustically treated, closed or relocated to building sides facing away from the corridor where practicable.

Notification

Notifications on title advise prospective purchasers of the potential for noise impacts from major transport corridors and help with managing expectations.

The Notification is to state as follows:

This lot is in the vicinity of a transport corridor and is affected, or may in the future be affected, by road and rail transport noise. Road and rail transport noise levels may rise or fall over time depending on the type and volume of traffic.