

Planning Secretary's Environmental Assessment Requirements

Section 4.12(8) of the *Environmental Planning and Assessment Act 1979*
Schedule 2 of the Environmental Planning and Assessment Regulation 2000

Application Number	SSD-10389
Project Name	Liverpool Hospital Redevelopment
Location	Corner of Elizabeth and Goulburn Streets, Liverpool
Applicant	Health Administration Corporation
Date of Issue	27/11/2019
General Requirements	<p>The Environmental Impact Statement (EIS) must be prepared in accordance with and meet the minimum requirements of clauses 6 and 7 of Schedule 2 the Environmental Planning and Assessment Regulation 2000 (the Regulation).</p> <p>Notwithstanding the key issues specified below, the EIS must include an environmental risk assessment to identify the potential and cumulative environmental impacts associated with the development.</p> <p>Where relevant, the assessment of the key issues below, and any other significant issues identified in the risk assessment, must include:</p> <ul style="list-style-type: none"> · adequate baseline data · consideration of potential cumulative impacts due to other development in the vicinity (completed, underway or proposed) · measures to avoid, minimise and if necessary, offset the predicted impacts, including detailed contingency plans for managing any significant risks to the environment. <p>The EIS must be accompanied by a report from a qualified quantity surveyor providing:</p> <ul style="list-style-type: none"> · a detailed calculation of the capital investment value (CIV) (as defined in clause 3 of the Regulation) of the proposal, including details of all assumptions and components from which the CIV calculation is derived · an estimate of the jobs that will be created by the future development during the construction and operational phases of the development · certification that the information provided is accurate at the date of preparation.
Key Issues	<p>The EIS must address the following specific matters:</p> <p>1. Statutory and Strategic Context Address the statutory provisions contained in all relevant environmental planning instruments, including:</p> <ul style="list-style-type: none"> · State Environmental Planning Policy (State & Regional Development) 2011 · State Environmental Planning Policy (Infrastructure 2007) · State Environmental Planning Policy No. 64 – Advertising and Signage · State Environmental Planning Policy No.55 – Remediation of Land · Draft State Environmental Planning Policy (Remediation of Land) · Draft State Environmental Planning Policy (Environment) and · Liverpool Local Environmental Plan 2008. <p><i>Permissibility</i> Detail the nature and extent of any prohibitions that apply to the development.</p>

Development Standards

Identify compliance with the development standards applying to the site and provide justification for any contravention of the development standards.

Provisions

Adequately demonstrate and document in the EIS how each of the provisions in the listed instruments are addressed, including reference to necessary technical documents.

2. Policies

Address the relevant planning provisions, goals and strategic planning objectives in the following:

- NSW State Priorities
- The Greater Sydney Regional Plan, A Metropolis of three cities
- Future Transport Strategy 2056 and supporting plans
- State Infrastructure Strategy 2018 – 2038 Building the Momentum
- Sydney's Cycling Future 2013
- Sydney's Walking Future 2013
- Sydney's Bus Future 2013
- Crime Prevention Through Environmental Design (CPTED) Principles
- Better Placed: An integrated design policy for the built environment of New South Wales (Government Architect NSW (GANSW), 2017)
- Healthy Urban Development Checklist (NSW Health, 2009)
- Draft Greener Places Policy
- Western City District Plan
- Liverpool Development Control Plan 2008.

3. Operation

- Provide details of the existing and proposed hospital operations.

4. Built Form and Urban Design

- Address the height, density, bulk and scale, setbacks and interface of the proposal in relation to the surrounding development, topography, streetscape and any public open spaces.
- Address design quality and built form, with specific consideration of the overall site layout, streetscape, open spaces, façade, rooftop, massing, setbacks, building articulation, materials and colours.
- Provide details of any digital signage boards, including size, location and finishes.
- Detail how services, including but not limited to waste management, loading zones, and mechanical plant are integrated into the design of the development.
- Provide detailed site and context analysis to justify the proposed site planning and design approach including massing options and preferred strategy for future development.

Provide a detailed site-wide landscape strategy, including details of the number of trees to be removed and the number of trees to be planted on the site.

- Provide a visual impact assessment that identifies any potential impacts on the surrounding built environment and landscape including views to and from the site and any adjoining heritage items.
- Address CPTED Principles.
- Demonstrate good environmental amenity including access to natural daylight and ventilation, acoustic separation, access to landscape and outdoor spaces and future flexibility.

5. Environmental Amenity

- Assess amenity impacts on the surrounding locality, including solar access, visual privacy, visual amenity, overshadowing and acoustic impacts.
- Conduct a view analysis to the site from key vantage points and streetscape locations (photomontages or perspectives should be provided showing the building and likely future development).
- Include a lighting strategy and measures to reduce spill into the surrounding sensitive receivers.
- Detail amenity impacts including solar access, acoustic impacts, visual privacy, view loss, overshadowing and wind impacts. A high level of environmental amenity for any surrounding residential land uses must be demonstrated.

6. Staging

Provide details regarding the staging of the proposed development (if any).

7. Transport and Accessibility

Include a transport and accessibility impact assessment, which details, but not limited to the following:

- accurate details of the current daily and peak hour vehicle, existing and future public transport networks and pedestrian and cycle movement provided on the road network located adjacent to the proposed development.
- details of estimated total daily and peak hour trips generated by the proposal, including vehicle, public transport, pedestrian and bicycle trips.
- the adequacy of existing public transport or any future public transport infrastructure within the vicinity of the site, pedestrian and bicycle networks and associated infrastructure to meet the likely future demand of the proposed development.
- measures to integrate the development with the existing/future public transport network.
- the impact of trips generated by the development on the following intersections, including consideration of the cumulative impacts from other approved or proposed developments in the vicinity (including SSD10389 Liverpool Hospital Redevelopment), with full counts including pedestrian (at minimum) and number of buses:
 - o Burnside Drive / Campbell Street
 - o Campbell Street / Bigge Street
 - o Elizabeth Street / Bigge Street
 - o Elizabeth Street / Goulburn Street
 - o Elizabeth Street / Moore Street
 - o Moore Street / Bigge Street
 - o Remembrance Avenue / Hume Highway
 - o Bigge Street / Hume Highway
 - o Newbridge Road / Speed Street
 - o Campbell Street / Goulburn Street
- the identification of infrastructure required to ameliorate any impacts on traffic efficiency and road safety impacts associated with the proposed development.
- details of travel demand management measures to minimise the impact on general traffic and bus operations, including details of a location-specific sustainable travel plan (Green Travel Plan and specific Workplace travel plan) and the provision of facilities to increase the non-car mode share for travel to and from the site.
- the proposed walking and cycling access arrangements and connections to public transport services.
- the proposed access arrangements, including car and bus pick-up/drop-off facilities, and measures to mitigate any associated traffic impacts and impacts on public transport, pedestrian and bicycle networks, including pedestrian crossings and refuges and speed control devices and zones.

- proposed bicycle parking provision, including end of trip facilities, in secure, convenient, accessible areas close to main entries incorporating lighting and passive surveillance.
- proposed number of on-site car parking spaces for staff and visitors and corresponding compliance with existing parking codes and justification for the level of car parking provided on-site.
- an assessment of the cumulative on-street parking impacts of cars and bus pick-up/drop-off, staff parking and any other parking demands associated with the development.
- an assessment of road and pedestrian safety adjacent to the proposed development and the details of required road safety measures and personal safety in line with CPTED
- emergency vehicle access, service vehicle access, delivery and loading arrangements and estimated service vehicle movements (including vehicle type and the likely arrival and departure times).
- the preparation of a preliminary Construction Traffic and Pedestrian Management Plan to demonstrate the proposed management of the impact in relation to construction traffic addressing the following:
 - o assessment of cumulative impacts associated with other construction activities (if any).
 - o an assessment of road safety at key intersection and locations subject to heavy vehicle construction traffic movements and high pedestrian activity.
 - o details of construction program detailing the anticipated construction duration and highlighting significant and milestone stages and events during the construction process.
 - o details of anticipated peak hour and daily construction vehicle movements to and from the site.
 - o details of on-site car parking and access arrangements of construction vehicles, construction workers to and from the site, emergency vehicles and service vehicle.
 - o details of temporary cycling and pedestrian access during construction.

Relevant Policies and Guidelines:

- Guide to Traffic Generating Developments (Roads and Maritime Services, 2002)
- EIS Guidelines - Road and Related Facilities (Department of Urban Affairs and Planning (DUAP), 1996)
- Cycling Aspects of Austroads Guides
- NSW Planning Guidelines for Walking and Cycling (Department of Infrastructure, Planning and Natural Resources (DIPNR), 2004)
- Austroads Guide to Traffic Management Part 12: Traffic Impacts of Development
- Standards Australia AS2890.3 (Bicycle Parking Facilities).

8. Ecologically Sustainable Development (ESD)

- Detail how ESD principles (as defined in clause 7(4) of Schedule 2 of the Regulation) will be incorporated in the design and ongoing operation phases of the development.
- Include a framework for how the future development will be designed to consider and reflect national best practice sustainable building principles to improve environmental performance and reduce ecological impact. This should be based on a materiality assessment and include waste reduction design measures, future proofing, use of sustainable and low-carbon materials, energy and water efficient design (including water sensitive urban design) and technology and use of renewable energy.
- Include preliminary consideration of building performance and mitigation of climate change, including consideration of Green Star Performance.
- Include an assessment against an accredited ESD rating system or an

equivalent program of ESD performance. This should include a minimum rating scheme target level.

- Provide a statement regarding how the design of the future development is responsive to the CSIRO projected impacts of climate change, specifically:
 - o hotter days and more frequent heatwave events
 - o extended drought periods
 - o more extreme rainfall events
 - o gustier wind conditions
 - o how these will inform landscape design, material selection and social equity aspects (respite/shelter areas).

Relevant Policies and Guidelines:

- NSW and ACT Government Regional Climate Modelling (NARClIM) climate change projections.

9. Heritage and Archaeology

- The EIS must include a Statement of Heritage Impact (SOHI) prepared by a suitable qualified heritage consultant in accordance with the guidelines in the NSW Heritage Manual. The SOHI is to address the impacts that the proposal will have on the heritage significance of the site and adjacent areas. It is to identify the following:
 - o all heritage items (state and local) within the vicinity of the site including built heritage, landscapes and archaeology, detailed mapping of these items and an assessment of why the items and site(s) are of heritage significance;
 - o compliance with the relevant Conservation Management Plan;
 - o the impacts of the proposal on heritage item(s) including visual impacts, required BCA and DDA works, new fixtures, fittings and finishes and any modified services;
 - o the attempts to avoid and/or mitigate the impact on the heritage significance or cultural heritage values of the site and the surrounding heritage items; and
 - o justification for any changes to the heritage fabric or landscape elements including any options analysis.
- A historical and/or maritime archaeological assessment should be prepared by a suitably qualified archaeologist in accordance with the heritage guidelines 'Archaeological Assessment' 1996 and 'Assessing Significance for Historical Archaeological Sites and Relics' 2009. This assessment should identify what relics, if any, are likely to be present, assess their significance and consider the impacts from the proposal on this potential archaeological resource. Where harm is likely to occur, it is recommended that the significance of the relics be considered in determining an appropriate mitigation strategy. If harm cannot be avoided in whole or part, an appropriate Research Design and Excavation Methodology should also be prepared to guide any proposed excavations or salvage programme.

10. Aboriginal Heritage

- Identify and describe the Aboriginal cultural heritage values that exist across the site and document these in an Aboriginal Cultural Heritage Assessment Report (ACHAR). This may include the need for surface survey and test excavation.
- Identify and address the Aboriginal cultural heritage values in accordance with the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (Office of Environment and Heritage (OEH), 2011) and Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW (OEH, 2010).
- Undertake consultation with Aboriginal people and document in accordance with Aboriginal cultural heritage consultation requirements for proponents 2010 (Department of Environment, Climate Change and Water). The significance of cultural heritage values of Aboriginal people who have a cultural association with

the land are to be documented in the ACHAR.

- Identify, assess and document all impacts on the Aboriginal cultural heritage values in the ACHAR.
- The EIS and the supporting ACHAR must demonstrate attempts to avoid any impact upon cultural heritage values and identify any conservation outcomes. Where impacts are unavoidable, the ACHAR and EIS must outline measures proposed to mitigate impacts. Any objects recorded as part of the assessment must be documented and notified to the Environment, Energy and Science Group of the Department of Planning, Industry and Environment.

11. Noise and Vibration

- Identify and provide a quantitative assessment of the main noise and vibration generating sources during demolition, site preparation, bulk excavation, construction. Outline measures to minimise and mitigate the potential noise impacts on surrounding occupiers of land.
- Identify and provide a quantitative assessment of the potential noise and vibration impacts on the identified sensitive receivers due to the operations of the hospital, including any proposed helicopter landing site (HLS) within the development.

Relevant Policies and Guidelines:

- NSW Noise Policy for Industry 2017 (NSW Environment Protection Authority (EPA))
- Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009)
- Assessing Vibration: A Technical Guideline 2006 (Department of Environment and Conservation, 2006)
- Development Near Rail Corridors and Busy Roads - Interim Guideline (Department of Planning, 2008)
- Australian Standard 2363:1999 Acoustics - Measurement of noise from helicopter operations.

12. Contamination

- Assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable for the proposed use in accordance with SEPP 55.
- Undertake a hazardous materials survey of all existing structures and infrastructure prior to any demolition or site preparation works.

Relevant Policies and Guidelines:

- Managing Land Contamination: Planning Guidelines - SEPP 55 Remediation of Land (DUAP, 1998)
- Sampling Design Guidelines (EPA, 1995)
- Guidelines for Consultants Reporting on Contaminated Sites (OEH, 2011)
- National Environment Protection (Assessment of Site Contamination) Measure (National Environment Protection Council, as amended 2013)

13. Utilities

- Prepare an Infrastructure Management Plan in consultation with relevant agencies, which details information on the existing capacity and any augmentation and easement requirements of the development for the provision of utilities including staging of infrastructure.
- Prepare an Integrated Water Management Plan detailing any proposed alternative water supplies, proposed end uses of potable and non-potable water, and water sensitive urban design.

14. Contributions

- Address Council's 'Section 7.12 Contribution Plan' *Liverpool Contributions Plan*

2018 – *Liverpool City Centre* and/or details of any Voluntary Planning Agreement, which may be required to be amended because of the proposed development.

15. Drainage

- Detail measures to minimise operational water quality impacts on surface waters and groundwater.
- Stormwater plans detailing the proposed methods of drainage without impacting on the downstream properties.

Relevant Policies and Guidelines:

- Guidelines for developments adjoining land managed by the Office of Environment and Heritage (OEH, 2013).

16. Flooding

Identify flood risk on-site (detailing the most recent flood studies for the project area) and consideration of any relevant provisions of the NSW Floodplain Development Manual (DIPNR, 2005), including the potential effects of climate change, sea level rise and an increase in rainfall intensity. If there is a material flood risk, include design solutions for mitigation.

17. Bushfire

Address bushfire hazard and, if relevant, prepare a report that addresses the requirements for Special Fire Protection Purpose Development as detailed in Planning for Bush Fire Protection 2006 (NSW RFS).

18. Biodiversity Assessment

- Biodiversity impacts related to the proposed development (SSD-10389) are to be assessed in accordance with the Biodiversity Assessment Method and documented in a Biodiversity Development Assessment Report (BDAR). The BDAR must include information in the form detailed in the *Biodiversity Conservation Act 2016* (s6.12), *Biodiversity Conservation Regulation 2017* (s6.8) and Biodiversity Assessment Method.
- The BDAR must document the application of the avoid, minimise and offset framework including assessing all direct, indirect and prescribed impacts in accordance with the Biodiversity Assessment Method.
- The BDAR must include details of the measures proposed to address the offset obligation as follows:
 - o the total number and classes of biodiversity credits required to be retired for the development/project
 - o the number and classes of like-for-like biodiversity credits proposed to be retired
 - o the number and classes of biodiversity credits proposed to be retired in accordance with the variation rules
 - o any proposal to fund a biodiversity conservation action
 - o any proposal to make a payment to the Biodiversity Conservation Fund.
- If seeking approval to use the variation rules, the BDAR must contain details of the reasonable steps that have been taken to obtain requisite like-for-like biodiversity credits.
- The BDAR must be submitted with all spatial data associated with the survey and assessment as per the BAM.
- The BDAR must be prepared by a person accredited in accordance with the Accreditation Scheme for the Application of the Biodiversity Assessment Method Order 2017 under s6.10 of the *Biodiversity Conservation Act 2016*.
- Where a Biodiversity Assessment Report is not required, engage a suitably qualified person to assess and document the flora and fauna impacts related to

the proposal.

Note: Notwithstanding these requirements, the Biodiversity Conservation Act 2016 requires that State Significant Development Applications be accompanied by a Biodiversity Development Assessment Report unless otherwise specified under the Act.

19. Sediment, Erosion and Dust Controls

Detail measures and procedures to minimise and manage the generation and off-site transmission of sediment, dust and fine particles.

Relevant Policies and Guidelines:

- Managing Urban Stormwater - Soils & Construction Volume 1 2004 (Landcom)
- Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)
- Guidelines for development adjoining land managed by the Office of Environment and Heritage (OEHL, 2013)

20. Aviation

- Provide a report prepared by a suitably qualified Aviation expert that:
 - o identifies whether the proposed hospital is located within any of the following Australian Noise Exposure Forecast (ANEF) contours as specified in Table 2.1 of AS 2021-2015 Acoustics - Aircraft Noise Intrusions - Building Siting and Construction: < 20; Between 20 - 25; or > 25.
Note: A hospital is not allowed on a site where the ANEF contour is >25.
 - o provides details of any flight paths that may be impacted by the proposed development (if applicable).
 - o identifies and assesses the potential impacts of the future development on the aviation operations of any nearby airports and affected flight paths of any existing on shore HLS in accordance with the relevant sections of the National Airports Safeguarding Framework (NASF).

Relevant Policies and Guidelines:

- Draft Guidelines for the establishment and operation of onshore Helicopter Landing Sites available at: <https://www.casa.gov.au/files/caap-92-2-2pdf>.

21. Waste

Identify, quantify and classify the likely waste streams to be generated during construction and operation and describe the measures to be implemented to manage, reuse, recycle and safely dispose of this waste. Identify appropriate servicing arrangements (including but not limited to, waste management, loading zones, mechanical plant) for the site.

Relevant Policies and Guidelines:

- Waste Classification Guidelines (EPA, 2014)

22. Hazards and Risks

Provide a preliminary risk screening completed in accordance with State Environmental Planning Policy No. 33 – Hazardous and Offensive Development and Applying SEPP 33 (DoP, 2011), with a clear indication of class, quantity and location of all dangerous goods and hazardous materials associated with the development. Should preliminary screening indicate that the development is "potentially hazardous," a Preliminary Hazard Analysis (PHA) must be prepared in accordance with Hazardous Industry Planning Advisory Paper No. 6 - Guidelines for Hazard Analysis (DoP, 2011) and Multi-Level Risk Assessment (DoP, 2011).

	<p>23. Construction Hours Identify proposed construction hours and provide details of the instances where it is expected that works will be required to be carried out outside the standard construction hours.</p>
<p>Plans and Documents</p>	<p>The EIS must include all relevant plans, architectural drawings, diagrams and relevant documentation required under Schedule 1 of the Regulation. Provide these as part of the EIS rather than as separate documents.</p> <p>In addition, the EIS must include the following:</p> <ul style="list-style-type: none"> · A section 10.7(2) and (5) Planning Certificates (previously Section 149(2) and (5) Planning Certificate) · Architectural drawings showing key dimensions, RLs, scale bar and north point, including: <ul style="list-style-type: none"> o plans, sections and elevation of the proposal at no less than 1:200 o illustrated materials schedule including physical or digital samples board with correct proportional representation of materials, nominated colours and finishes o details of proposed signage, including size, location and finishes o detailed annotated wall sections at 1:20 scale that demonstrate typical cladding, window and floor details, including materials and general construction quality o site plans and operations statement · Site Survey Plan, showing existing levels, location and height of existing and adjacent structures / buildings and site boundaries · Site Analysis and Context Plans, including: <ul style="list-style-type: none"> o any future development and expansion zones o open space network o active transport linkages with existing, proposed and potential footpaths and bicycle paths and public transport links · Sediment and Erosion Control Plan · Shadow Diagrams · View analysis, photomontages and architectural renders, including from those from public vantage points · Landscape architectural drawings showing key dimensions, RLs, scale bar and north point, including: <ul style="list-style-type: none"> o integrated landscape plans at appropriate scale, with detail of new and retained planting, shade structures, materials and finishes proposed o plan identifying significant trees, trees to be removed and trees to be retained or transplanted · Design report to demonstrate how design quality will be achieved in accordance with the above Key Issues including: <ul style="list-style-type: none"> o architectural design statement o diagrams, structure plan, illustrations and drawings to clarify the design intent of the proposal o detailed site and context analysis o analysis of options considered to justify the proposed site planning and design approach o demonstration that Aboriginal culture and heritage is considered and incorporated holistically in the design o a precinct scale masterplan showing relationship of the proposal to any proposed development on surrounding land o visual impact assessment identifying potential impacts on the surrounding built environment and adjoining heritage items o summary of feedback provided by GANSW and NSW State Design Review Panel (SDRP) and responses to this advice o summary report of consultation with the community and response to any

	<p>feedback provided</p> <ul style="list-style-type: none"> · Geotechnical and Structural Report · Accessibility Report · Arborist Report and · Schedule of materials and finishes.
Consultation	<p>During the preparation of the EIS, you must consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups, special interest groups, including local Aboriginal land councils and registered Aboriginal stakeholders, and affected landowners. In particular, you must consult with:</p> <ul style="list-style-type: none"> · Liverpool City Council · Government Architect NSW (through the NSW SDRP process) (GA NSW) · Transport for NSW (TfNSW) · Transport for NSW (Roads and Maritime Services) (TfNSW RMS). <p>Consultation with GA NSW, TfNSW and TfNSW (RMS) should commence as soon as practicable to agree the scope of investigation.</p> <p>The EIS must describe the consultation process and the issues raised, and identify where the design of the development has been amended in response to these issues. Where amendments have not been made to address an issue, a short explanation should be provided.</p>
Further consultation after two years	<p>If you do not lodge a development application and EIS for the development within two years of the issue date of these SEARs, you must consult further with the Planning Secretary in relation to the preparation of the EIS.</p>
References	<p>The assessment of the key issues listed above must consider relevant guidelines, policies, and plans as identified.</p>