

## Review of Environmental Factors Standard Mitigation Measures

### Mitigation measures

The following Mitigation Measures have been imposed to ensure that the activity is carried out in accordance with the plans/documentation and any amendment approved under Part 5 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). These mitigation measures are required to eliminate, minimise or manage environmental impacts of the activity. They provide measures for the appropriate environmental performance of the activity, including regular monitoring and reporting.

### General measures

#### 1. Obligation to prevent impacts to the environment

In addition to meeting the mitigation measures in this determination, all reasonable and feasible measures should be implemented to prevent impacts to the environment that may result from the activity.

#### 2. Development in Accordance with Plans and Documentation

The proposal must be carried out generally in accordance with the Review of Environmental Factors dated 14 June 2023 and prepared by GeoLINK Consulting Pty Ltd on behalf of NSW Health Infrastructure (including accompanying Appendices A - AA) and generally in accordance with the following plans as modified below and by any of the under-mentioned measures:

Drawing Title	Drawing Ref	Revision	Date	Prepared by
Cover Sheet	AR-00-AA000	A		dwp
Site Floor Plan – Existing	AR-00-1000	M	14/06/2023	dwp
Site Floor Plan – Early Works & Decant Works	AR-EW-1000	D	14/06/2023	dwp
Site Works Complete Works – Landscaping	AR-00-AA0012	E	14/06/2023	dwp
Site Roof Plan- Main Works	AR-MW-AA1201	G	14/06/2023	dwp
Building Elevations	AR-MW-AA2001	L	14/06/2023	dwp
Building Elevations	AR-MW-AA2002	J	14/06/2023	dwp
Building Elevations – Plant	AR-MW-AA2003	H	14/06/2023	dwp
Site Sections	AR-MW-AA3001	K	14/06/2023	dwp
Site Sections	AR-MW-AA3002	K	14/06/2023	dwp
Building Sections	AR-MW-AA3010	H	14/06/2023	dwp
Façade Concept	AR-00-AA6900	F	14/06/2023	dwp
Site Analysis Diagrams	AR-00-AA9020	D	14/06/2023	dwp
Landscape Cover Sheet	L01	B	16/05/2023	Stewart Surveys
Tree Retention and Removal Plan	L02	C	30/05/2023	Stewart Surveys
Landscape General Arrangements and Finishes	L03	B	16/05/2023	Stewart Surveys
Landscape General Arrangements and Finishes	L04	B	16/05/2023	Stewart Surveys
Landscape Details	L05	B	16/05/2023	Stewart Surveys
Plant Schedule and Landscape Details	L06	B	16/05/2023	Stewart Surveys

Concept Sediment and Soil Erosion Control Plan – Early Works	GHR-CI-MW-1001	B	14/04/2023	Northrop
Concept Sediment and Soil Erosion Control Plan – Early Works	GHR-CI-MW-1011	B	14/04/2023	Northrop
Concept Sediment and Soil Erosion Control Plan – Early Works	GHR-CI-MW-1021	B	14/04/2023	Northrop
Siteworks and Stormwater Management Plan – Sheet 01	GHR-CI-MW-0401	1	01/06/2023	Northrop
Siteworks and Stormwater Management Plan – Sheet 02	GHR-CI-MW-0402	1	01/06/2023	Northrop

### 3. Design integrity

Necessary arrangements must be implemented by the Project Team to ensure that dwp are engaged in any design documentation phase to ensure that the design quality of the activity is preserved through the construction phase to the completion of the Project.

### 4. Crown Certificate

A Certificate under Section 6.28 of the *Environmental Planning and Assessment Act 1979* is to be obtained prior to any work commencing.

### 5. Building Code of Australia

All building work is to be undertaken in accordance with the Building Code of Australia and referenced Australian Standards, including the requirements of AS 1428.1:2021 Design for access and mobility, Part 1: General requirements for access – New building work.

### 6. Approvals

These conditions do not remove any obligation to obtain all other licences, permits, approvals and land owner consents from all relevant authorities and land owners as required under any other legislation for the Project. The terms and conditions of such licences, permits, approvals and permissions must be complied with at all times. A copy of all approvals is to be kept on site.

### 7. Long Service Levy

The Crown Certificate must not to be issued unless the Crown Certifier is satisfied the required levy payable under Section 34 of the *Building and Construction Industry Long Service Payments Act 1986* has been paid. The levy must be paid by the person liable, as specified in Section 38 of the *Building and Construction Industry Long Service Payments Act 1986*. For further information contact the Long Service Corporation on their Helpline 131441.

### 8. Tree Management and Landscape

- 8.1 Trees not proposed to be removed are to be protected in accordance with AS 4970-2009 Protection of Trees on Development Sites.
- 8.2 No building materials, builder's sheds and the like are permitted to be stored under the canopy of existing trees.
- 8.3 Trees proposed to be removed are to be in accordance with the Plans and Documentation approved under this Determination and replaced at a replacement ratio of at least 1:1, as indicated by the Landscape Plans prepared by Stewart Surveys and dated 16/05/2023.

### 9. Prior Notice of Category 2 Remediation Work

Where relevant, all required regulatory notifications and permits are to be obtained including Notification of Category 2 Remediation Works to Council for the remedial work at least 30 days before the commencement of the work. Notice must be given in accordance with clause 4.13 of the *State Environmental Planning Policy (Hazards and Resilience) 2021*.

## **10. Demolition**

Demolition work must be undertaken in accordance with the provisions of Australian Standard AS 2601-2001 The Demolition of Structures. The Demolition Work Plan must comply with the safety requirements of this standard.

## **11. Structural adequacy**

All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the activity, must be constructed in accordance with the relevant requirements of the Building Code of Australia.

## **12. External walls and cladding**

The external walls of buildings, including additions to existing buildings, that are part of the activity, must comply with the relevant requirements of the Building Code of Australia.

## **13. External materials**

The external colours, materials and finishes of buildings must be consistent with the approved plans under mitigation measure 2. Any minor changes to the colour and finish of the approved external materials may be approved by the Crown Certifier, provided that:

- a. The alternative colour/material is of a similar tone/shade and finish to the approved external materials and colours; and
- b. The quality and durability of any alternative material is the same standard as the approved external building materials.

## **14. Sustainability**

- 14.1 Prior to the commencement of construction, it must be demonstrated to the Crown Certifier that the ESD initiatives recommended by the ESD Report titled Gunnedah Hospital Redevelopment ESD Review of Environmental Factors (REF) Report, prepared by Steensen Varming and dated 26/05/2023 have been incorporated into the design, construction and operation of the activity.
- 14.2 The activity is to achieve compliance with Section 2.5.6 of the Health Infrastructure Engineering Services Guidelines dated 6 August 2021 (including Design Guidance Note No. 058) by attaining 41 low risk points and 25 higher risk points (totalling 66 points). There is a 6-point buffer above minimum threshold at this stage to confirm that the minimum of 60 points in accordance with the ESD Evaluation Tool is feasible.

## **15. Flood management**

The activity shall adopt the relevant and reasonable recommendations of the Flood Assessment Report titled Technical Memorandum – Gunnedah Hospital Redevelopment – Flooding, prepared by Northrop dated [insert date].

## **16. Safer by design**

The activity shall adopt the relevant and reasonable recommendations of the Crime Prevention Through Environmental Design/Safer by Design Report titled Built Form and Urban Design Report, prepared by dwp dated 18/05/2023.

## **17. Water management**

The activity shall adopt the relevant and reasonable recommendations of the Water Quality Assessment Report titled [insert name], prepared by [insert name] and dated [insert date].

## **18. Compliance with Mitigation Measures**

The Proponent engaged by HI, must ensure that all relevant personnel, including contractors (and their subcontractors), are aware of these Mitigation Measures, and the requirement to undertake the activity within these Measures.

## 19. Non-compliance notification

- 19.1 The HI-Planning Team and the HI-Regional Director must be notified where a non-compliance with a mitigation measure is identified.
- 19.2 The notification should identify relevant activity, set out the mitigation measure that is non-compliant with, the way in which it does not comply, any known reasons for the non-compliance and what actions have been, or will be undertaken, to address the non-compliance.

## Prior to commencement of works

**Note:** The following Measures are to be complied with prior to the commencement of works on the activity site, and at other stages where stated.

## 20. Consultation Approach

- 20.1 Prior to the commencement of work, a consultation approach shall be prepared that:
- Identifies the relevant people that may be consulted during the construction phases of the activity. At the minimum this should include the relevant Council, community (including adjoining affected landowners, businesses and any other directly impacted by the activity) and those on an existing hospital site;
  - Determines the suitable methods of consultation with relevant stakeholders, including the receipt of feedback; and
  - Provides the approach access to project information.

## 21. Community Notification

- 21.1 Prior to commencement of work, the Proponent must notify in writing to Council and the occupier of any land within 40 metres of the boundary of the site works. The notification should outline the project, the expected timing for commencement and completion of construction works.
- 21.2 Where practicable, work programs for noisy work should be coordinated with the hospital at least two (2) weeks prior to commencement to minimise impacts on their operations.
- 21.3 Complaints received prior to and during the undertaking of works shall be recorded and attended to promptly. On receiving a complaint, works shall be reviewed to determine whether issues relating to the complaint can be avoided or minimised. Feedback shall be provided to the complainant explaining what remedial actions (if any) were taken.
- 21.4 The Proponent shall develop a complaints management system and record details of all complaints received and the means of resolution of those complaints. The Complaints Register shall be made available on request.
- 21.5 A site notice board must be located at the entrance or other appropriate location on the site in a prominent position. The notice must be A1 sized, durable and weatherproof and include the following:
- 24-hour contact person for the site;
  - Telephone, facsimile numbers and email addresses;
  - Site activities and time frames; and
  - Details of where accessible project information can be sourced.
- 21.6 The site notice must be placed at eye level and be erected no less than 2 days prior to the commencement of works.

## **22. Site contamination**

Prior to the commencement of work, an NSW EPA-accredited Site Auditor must be engaged to provide advice throughout the duration of the works to ensure that any work required in relation to contamination is appropriately managed.

## **23. Hazardous Materials**

- 23.1 Recommendations from the Hazardous Buildings Materials (HAZMAT) Survey undertaken by JK Environments dated 18 August 2022 (including the handling and removal of Asbestos Containing Materials and the management of lead in paint, PCBs and SMFs) are to be implemented as part of the Activity.
- 23.2 An Asbestos Management Plan is to be prepared to provide a procedure to control the risk of exposure from asbestos and lead impacted topsoil during the work.
- 23.3 An unexpected finds procedure is to be included in an overarching Construction Management Plan (CMP) for the work, in the event that other contamination is encountered which have not been identified during this assessment.
- 23.4 Waste must be transported by an appropriately licensed transporter, and disposed to a facility that is licensed to receive that class of waste. It is recommended that this report is sent to the proposed receiving facility to confirm their acceptance of the material prior to off-site disposal. If the description of the soil differ from that described within, then further assessment for waste classification purposes may be required prior to off-site disposal.
- 23.5 SafeWork NSW is to be notified in accordance with the relevant policy prior to work involving asbestos material being undertaken.
- 23.6 Air monitoring devices shall be put in place, around the site, during the demolition. A qualified environmental hygienist shall be on site to supervise the work to ensure the safety of workers and the public are not compromised in anyway. Daily monitoring and results will be taken and analysed to ensure safe air quality levels ensue.
- 23.7 A Lead Removal Control Plan will be developed and implemented by the contractor. Lead based paint is defined as paint containing more than 1% lead by weight, and is classified as hazardous waste according to EPA NSW Waste Classification Guidelines. Part 1: Classifying Waste.

## **24. Pre-Construction Dilapidation Report**

- 24.1 Prior to construction, a dilapidation report is to be prepared for the hospital, Council or other assets within the zone of influence of the work.
- 24.2 The dilapidation report should:
  - a. Be prepared in consultation with the relevant asset owner or provider of any services and infrastructure that are to be affected by the activity, to make suitable arrangements for access to diversion, protection and support of the affected assets or infrastructure;
  - b. Identify the condition of affected assets or infrastructure in the vicinity of the work; and
  - c. Be provided to the hospital, Council, other assets or provider and the Crown Certifier.

## **25. Pre-Construction Survey – Adjoining Properties**

- 25.1 Prior to construction, an offer of a pre-construction survey is to be made to adjoining buildings within the zone of influence of the work.
- 25.2 Where the offer of a pre-construction survey is accepted, it should:
  - a. Be prepared prior to the commencement of vibration generating works that could impact on identified buildings; and

- b. Provided to the owner of identified buildings and Crown Certifier in the form of a Pre-Construction Survey Report.

## 26. Construction Management

A detailed Construction Environmental Management Plan (CEMP) is to be prepared prior to the commencement of works, provided to the Crown Certifier, and implemented during the undertaking of works. The CEMP must be prepared having regard to the *Environmental Management Plan Guideline: Guideline for Infrastructure Projects (2020)* prepared by the Department of Planning and Environment, and is to include (where relevant), but not be limited to, the following:

- a. Details of:
  - i. hours of work;
  - ii. 24-hour contact details of site manager;
  - iii. management of dust and odour;
  - iv. stormwater control and discharge;
  - v. measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;
  - vi. any other specific environmental construction mitigation measures detailed in this REF;
  - vii. any requirements outlined in any relevant approvals, permits or licences; and
  - viii. community consultation and complaints handling.
- b. Construction traffic and Pedestrian Management Plan;
- c. Construction noise and vibration management;
- d. Construction waste management, including contaminated waste;
- e. Construction soil and water management;
- f. Flood management;
- g. Tree protection;
- h. Air quality and dust management measures;
- i. Demolition Work Plan;
- j. Unexpected finds protocol for Aboriginal and non-Aboriginal heritage and associated communications procedure;
- k. Unexpected finds protocol for historical heritage;
- l. Unexpected finds protocol for contamination;
- m. Emergency Management Plan; and
- n. Training of responsibilities under *National Parks and Wildlife Act 1975*, *Heritage Act 1977* and any other relevant legislation.

## 27. Demolition/Construction Waste Management Plan

- 27.1 A Demolition/Construction Waste Management Plan shall be prepared by an appropriately qualified contractor prior to the commencement of works. The Waste Management Plan should be prepared in accordance with the Department of Environment and Climate Change (DECC) *Waste Classification Guidelines (2008)* and the *Protection of the Environment Operations Act 1997*. A copy of the plan is to be provided to the Crown Certifier.
- 27.2 The Demolition/Construction Waste Management Plan is to include the following requirements and details:
  - a. The type and volume of all waste materials (e.g. excavation material, green waste, bricks, concrete, timbers, plasterboard and metals) is to be estimated prior to the commencement of works, with the



destination for each waste identified. Waste should be re-used or recycled as much as practicable. Where not practicable, the location of a suitable waste disposal facility is to be identified;

- b. Cleaning out of batched concrete mixing plant is not permitted within any construction compound;
- c. Non-recyclable waste and containers are to be regularly collected and disposed of at a licensed disposal site. Frequency of collection should be identified;
- d. No burning or burying of waste is permitted on the site; and
- e. Any bulk garbage bins delivered by authorised waste contractors are to be placed and kept within the property boundary.

27.3 The following mitigation measures will be implemented in order to prevent adverse impacts in relation to waste generated by the proposed works:

- a. No materials will be used in a manner that will pose a risk to public safety and waste generated from the proposed works will be recycled where possible;
- b. Unnecessary resource consumption will be avoided; and
- c. Non-recyclable wastes will be collected and disposed of or recycled in accordance with Office of Environment and Heritage (OEH) guidelines.

## **28. External walls and cladding**

28.1 Prior to commencement of work, independent advice is required to confirm that the products and systems proposed for use or used in the construction of any external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the requirements of the Building Code of Australia.

28.2 The independent advice is to be prepared and signed by a suitable qualified expert, such as a façade engineer or other building professional and a copy of the advice is to be provided to the Crown Certifier.

## **29. External lighting**

29.1 Prior to commencement of work, independent advice is required to confirm that the proposed external lighting design would be in accordance Australian Standards AS/NZS 1158.3.1:2020 Lighting for roads and public spaces – Part 3.1: Pedestrian area (Category P) lighting – Performance and design requirements and AS/NZS 4282:2019 Control of the Obtrusive Effects of Outdoor Lighting.

29.2 The independence advice is to be prepared and signed by a suitably qualified expert, such as a practising lighting engineer, and a copy of the advice is to be provided to the Crown Certifier.

## **30. Operational noise – Mechanical Plan and Equipment**

30.1 Prior to the installation of mechanical plant and equipment, independent advice is required to confirm compliance with relevant project noise trigger levels as recommended in the Noise and Vibration Impact Assessment titled Construction and Operational Noise and Vibration Assessment, prepared by Muller Acoustic Consulting and dated 16 August 2022.

30.2 The independent advice should be prepared by suitably qualified expert, such as a practising acoustic engineer, and a copy of the advice is to be provided to the Crown Certifier.

## **31. Existing helipad/helicopter operations during construction**

31.1 Prior to the commencement of construction, independent advice is required to review and confirm that helipad/helicopter operations on the hospital site remain of safe operation during construction.

31.2 The review should consider the expected construction methodology, including lighting and cranes, and where necessary, recommend any amendments to the construction management to ensure safe on-going helicopter operations.

- 31.3 The independent advice should be prepared by a suitably qualified expert, such as a practising aviation consultant, and a copy of the advice is to be provided to the Crown Certifier.

### **32. Noise Management Measures**

- 32.1 During preparation of the construction program, consult with the hospital to determine what areas (if any) of the hospital is particularly noise sensitive, and at what time (ward rooms, operating theatres, etc.).
- 32.2 Identify feasible acoustic controls or management techniques (use of screens, scheduling of noisy works, notification of adjoining land users, respite periods) when excessive levels may occur.
- 32.3 For activities where acoustic controls and management techniques still cannot guarantee compliant noise levels, implement a notification process whereby nearby development is made aware of the time and duration of noise intensive construction processes.

### **33. Erosion and Sediment Control**

- 33.1 Erosion and sediment controls will be implemented in accordance with the Landcom/Department of Housing *Managing Urban Stormwater, Soils and Construction Guidelines* (Blue Book) and ensure any water diversion or control outlets associated with the works do not result in scouring.
- 33.2 Additional erosion controls will be implemented in accordance with the Concept Sediment and Soil Erosion Control Plans, prepared by Northrop and dated 14/04/2023.
- 33.3 Works will only commence once all erosion and sediment controls have been established. The controls will be maintained in place until the works are complete and all exposed erodible materials are stable.
- 33.4 Erosion and sedimentation controls will be checked and maintained (including clearing of sediment from behind barriers) on a regular basis (including after any precipitation events) and records kept and provided on request.

### **34. Services and Utilities**

Prior to the commencement of works, any services and utilities that may be impacted by the works are to be appropriately relocated.

### **35. Construction Traffic Management**

A Construction Traffic Management Plan shall be prepared in consultation with Council prior to commencement of works. A copy of the plan is to be provided to the Crown Certifier.

### **36. Construction worker transport strategy**

Prior to the commencement of works, a construction worker transport strategy shall be prepared. The strategy is to detail the provision of sufficient parking facilities or other travel arrangements for construction worker for the activity, in order to minimise parking in adjacent areas. A copy of the strategy is to be provided to the Crown Certifier.

### **37. Monitoring and Reporting**

- 37.1 Prior to the commencement of works, a program for the monitoring and reporting of compliance with these mitigation measures shall be prepared. The timing and scope of these are to be defined in the program, however, must be undertaken at least every 6 months following the commencement of works.
- 37.2 The compliance reporting should:
- Provide a summary and analysis of the monitoring undertaken;
  - Details of any complaints received, and responses and actions to these;
  - Any strategies to reduce the recurrence of such complaints; and
  - Results from any other monitoring and/or audit undertaken, and any actions taken in response to these.



37.3 The compliance reports are to be provided to the HI-Planning Team and the relevant HI-Regional Director.

37.4 Refer also to Advisory Note AN1.

### 38. Independent Audit

38.1 Prior to the commencement of works, a program of independent audits shall be prepared for the activity generally in accordance with the *Independent Post Approval Requirements 2020* (published on the Department of Planning and Environment website) and AS/NZS ISO 19011-2019 Guidelines for Auditing Management Systems.

38.2 The timing and scope of each audit is to be defined in the program.

38.3 Audits should be undertaken by suitably qualified personnel independent to the activity ('independent auditor') and documented in an audit report which:

- a. Assesses how the mitigation measures of the Determination are being satisfied;
- b. Adequacy of any documents required under the mitigation measures;
- c. Outlines the performance of the activity with respect to any impacts on the surrounding environment including local community; and
- d. Recommends any measures or actions to improve the performance of the activity, if deemed required.

The independent audit reports are to be provided to the HI-Planning Team and the HI-Regional Director.

## During construction/undertaking of work

**Note:** The following Measures are to be complied with during the approved construction/undertaking of works.

### 39. Site notice

The Site Notice(s) required by mitigation measure 21.5 must be prominently displayed during the construction of the activity.

### 40. Construction Site Management

40.1 Construction site fencing is to be installed around the construction site. Vehicle and workforce access points and roads to the construction compounds are to be clearly designated and controlled for authorised access only. Vegetation clearance is to be minimised.

40.2 The work site should be left tidy and rubbish free each day prior to leaving the site and at the completion of works.

40.3 The use and storage of hazardous materials and dangerous goods, including petroleum, distillate and other chemicals, shall be in accordance with the relevant legislation including, but not limited to:

- *Protection of the Environment Operations Act 1997*;
- Work Health and Safety Regulation 2017;
- AS 1940:2017 The Storage and Handling of Flammable and Combustible Liquids; and
- Safe Work NSW Code of Practice – Managing Risks of Hazardous Chemicals in the Workplace.

40.4 All materials on site or being delivered to the site must be wholly contained within the site. The requirements of the *Protection of the Environment Operations Act 1997* are to be complied with when placing/stockpiling loose material or when disposing of waste products or during any other activities likely to pollute drains or watercourses.

- 40.5 The public way must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances.
- 40.6 All equipment and machinery should be secured against vandalism outside of working hours.
- 40.7 No batching plant is permitted on the site.
- 40.8 A copy of the approved and certified plans, specifications and documentation shall be kept on site at all times and shall be available for perusal by any officer of Council.
- 40.9 All contractor(s) must meet all workplace safety legislation and requirements.
- 40.10 No vehicle maintenance is permitted in the demolition and construction areas except in emergencies.
- 40.11 All loose material stockpiles are to be stored within the temporary construction compound(s) and are to be protected from possible erosion.

#### **41. Erosion and Sediment Control**

- 41.1 Disturbance of sediment during the construction phase of the development and the design management and implementation of pollution controls must be consistent with *Managing Urban Stormwater: Soils and Construction* (NSW Landcom, 2004), (Blue Book), and *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)* to ensure containment of sediment to the immediate work site.
- 41.2 All sediment control measures must be regularly inspected and cleaned out and/or repaired as necessary, and all collected silt disposed of appropriately. Stockpiles should also have adequate sediment control measures in place.
- 41.3 Erosion and control measures are not to be removed until disturbed areas have stabilised.

#### **42. Air Quality and Dust Management**

- 42.1 Spraying of paint and other materials with the potential to become air borne particulates is only to be undertaken on days with still or light wind conditions.
- 42.2 No burning of materials is permitted.
- 42.3 Dust generated during demolition and construction activities is to be controlled to avoid impact on surrounding properties.
- 42.4 All necessary maintenance for construction vehicles and equipment is to be undertaken during the construction period.
- 42.5 Excessive use of vehicles and powered construction equipment is to be avoided.
- 42.6 Exposed areas are to be progressively revegetated as soon as practical.
- 42.7 Vehicle wash down areas are to be established to ensure all mud and soil from construction vehicles is not carried onto public roads.
- 42.8 All vehicles involved in any excavation and/or demolition and departing the site with demolition materials, spoil or loose matter must have their loads fully covered before entering the public roadway.
- 42.9 Vehicles, machinery and equipment will be maintained in accordance with manufacturer's specifications in order to meet the requirements of the *Protection of the Environment Operations Act 1997* and associated regulations.
- 42.10 Stockpiles and exposed soils will be covered, stabilised and dampened to reduce incidence of dust dispersal.

#### 43. Construction

- 43.1 No blasting shall be permitted during construction.
- 43.2 To minimise the noise levels during construction and loss of amenity to the surrounding area, the use of any rock excavation machinery or any mechanical pile drivers or the like is restricted to the hours of:
- 9am to 12pm, Monday to Friday;
  - 2pm to 5pm Monday to Friday; and
  - 9am to 12pm Saturday.

#### 44. Services

- 44.1 All services and utilities in the area of construction must be appropriately disconnected and reconnected as required. The contractor is required (if necessary) to consult with the various service authorities regarding their requirements for the disconnection of services.
- 44.2 Where services are found not to be adequate to support the activity they shall be appropriately augmented.

#### 45. Stormwater management system

- 45.1 Within three months of the commencement of construction, the operational stormwater management system for the activity must be designed and submitted to the satisfaction of the Crown Certifier. The system must:
- Be generally in accordance with the stormwater report and plans at mitigation measure 2;
  - Be generally in accordance with the water quality management report titled [insert name], prepared by [insert name] dated [insert date]; <Add/delete measure if relevant to activity>
  - Be in accordance with the applicable Australian Standards;
  - Ensure that the system capacity has been designed in accordance with Australian Standards; and
  - Ensure that the system has been designed in accordance with *Australian Rainfall and Runoff (Engineers Australia, 2016)* and *Managing Urban Stormwater: Council Handbook (EPA, 1997) Guidelines*.

#### 46. Traffic Management

Existing traffic access and arrangements should be maintained during construction as much as practicable.

#### 47. Contamination (Unexpected Finds)

- 47.1 Should any new soil contamination information or contaminants be identified during the undertaking of works which have the potential to alter previous conclusions about site contamination, then the Managing Contractor and HI must be immediately notified and works must cease in the location of the contamination.
- 47.2 Works must not recommence until a suitably qualified contaminated land specialist (i.e. a Certified Environmental Practitioner) has investigated and assessed the category of the contamination in accordance with SEPP (Resilience and Hazards) 2021 and if required prepare a Remediation Action Plan (RAP) which details the necessary remedial work or management required to render the site suitable for the proposed development.
- 47.3 Following completion of the remediation, a Site Remediation and Validation Report (SRVR) which documents the completeness of the remedial work is to be submitted to HI and the EPA, if required.
- 47.4 Any contaminated materials or hazardous substances that need to be removed from the site are to be classified first and then stored, transported and disposed of in accordance with EPA requirements at an EPA licensed waste facility.
- 47.5 Asbestos removal and management in NSW is regulated under the *Work Health and Safety Act 2011* and *Work Health and Safety Regulation 2017*. The handling of asbestos work must be carried out in accordance

with Safe Work Australia Code of Practice *How to Manage and Control Asbestos in the Workplace February 2016*, including being undertaken by contractors who hold a current Safe Work Asbestos or Demolition Licence and any other current Safe Work Licence required

- 47.6 If soils are to be disposed offsite during construction, they are required to be disposed in accordance with the waste classification, subject to additional sampling and analysis.
- 47.7 Construction works should not result in the contamination of the site.
- 47.8 A spill containment kit will be available at all times. All personnel will be made aware of the location of the kit and trained in its effective deployment.
- 47.9 The contractor shall develop a procedure for the management of acid sulfate material (ASM) including identification, testing and treatment of ASM encountered during the works and opportunities for reuse of treated ASM within the site.
- 47.10 Materials will be sourced from licensed quarries and operators. All materials will be certified uncontaminated and environmentally safe.

#### **48. Contamination**

- 48.1 Remediation is to be undertaken of contaminated land in accordance with the approved Remediation Action Plan (RAP) titled Proposed Gunnedah Hospital Redevelopment Remediation Action Plan, dated 19/05/2023, prepared by JK Environments. Amendments to the approved RAP required as a result of further investigations must be prepared by a suitably qualified and experienced expert and approved by the relevant authority.
- 48.2 Prepare a Validation Assessment (VA) report in accordance with the requirements of the RAP, titled Proposed Gunnedah Hospital Redevelopment Remediation Action Plan, dated 19/05/2023, prepared by JK Environments.
- 48.3 A notice of completion of remediation work must be given in accordance to Section 4.14 and Section 4.15 of the *State Environmental Planning Policy (Resilience and Hazards) 2021*.
- 48.4 Construction works should not result in the contamination of the site.
- 48.5 Any materials imported on site by the Contractor to re-establish ground levels or to be applied as a capping layer must be validated, environmentally suitable material.
- 48.6 In a storm or an extended rainfall event, the structures located on site for sediment control shall be monitored and replaced or altered if necessary by the Contractor. Collected material shall be managed in accordance with remediation works by the Contractor.

#### **49. Noise and Vibration Management**

- 49.1 All works will be in accordance with AS 2436-2010: Guide to Noise and Vibration Control on Construction, Demolition and Maintenance Sites.
- 49.2 Building contractors are to implement the requirements of the Office of Environment *Interim Construction Noise Guideline (July 2009)* as far as practicable.
- 49.3 Construction is to be carried out in accordance with the Building Code of Australia deemed-to-satisfy provisions with respect to noise transmission.
- 49.4 All reasonable, practicable steps are to be undertaken to reduce noise and vibration from the site.
- 49.5 Plant and equipment is to be maintained, checked and calibrated in accordance with the appropriate design requirements and to ensure that maximum sound power levels are not exceeded.

- 49.6 Plant and equipment (where possible) is to be strategically positioned on site to reduce the emission of noise from the site to the surrounding area, users of the site and on site personnel.
- 49.7 Unnecessary noise is to be avoided when carrying out manual operations and operating plant.
- 49.8 Any equipment not used for extended periods is to be switched off.
- 49.9 Construction vehicles (including concrete agitator trucks) are to not arrive at the site or any surrounding residential precincts outside of the construction hours of work outlined under mitigation measure 52.
- 49.10 Pre-Construction / Site Inductions:
- All employees, contractors and subcontractors are to receive an environmental induction. The induction must at least include:
    - relevant noise and vibration mitigation measures
    - licence and approval conditions
    - permissible hours of work
    - limitations on high noise generating activities
    - location of nearest sensitive receivers
    - construction employee parking areas
    - designated loading/unloading areas and procedures
    - site opening/closing times
    - environmental incident procedures.
  - Implement a noise monitoring program to quantify noise emissions from construction activities and guide practical reasonable and feasible noise control measures.
- 49.11 Plan Worksites:
- Locate compounds away from sensitive receivers and discourage access from local roads.
  - Plan traffic flow, parking and loading/ unloading areas to minimise reversing movements within the site.
- 49.12 Site Practices / Behavioural Practices:
- Conduct toolbox talks pre-shift to communicate awareness regarding the importance of noise emission management.
  - Ensure site managers periodically check the site and nearby residences and other sensitive land uses for noise problems so that solutions can be quickly applied.
  - Include in tenders, employment contracts, subcontractor agreements and work method statements clauses that require minimisation of noise and compliance with
    - directions from management to minimise noise
  - Avoid shouting and minimise talking loudly. Avoid dropping materials from height, throwing of metal items and slamming of doors.
  - Keep truck drivers informed of designated vehicle routes, parking locations, acceptable delivery hours or other relevant practices
  - Encourage workers to operate equipment in a conservative manner.

#### 49.13 Notification

- Provide information to neighbours detailing work activities, dates and hours, impacts and mitigation measures, work schedule over the night period, any operational noise
- benefits from the works (where applicable) and contact telephone number.
- Notifications should be a minimum of 7 calendar days prior to the start of the works.
- Use site information board at the front of the site with relevant details about site contacts, hours of operation and regular information updates.

#### 49.14 Complaints Handling

- Have a documented complaints handling procedure with an escalation procedure so that if a complaint is not satisfied, there is a clear path to follow.
- Implement all feasible and reasonable measures to address the source of the complaint.
- Keep a register of any complaints including all relevant details and provide a quick response to all complaints.

#### 49.15 Construction Method

- Use quieter and less vibration emitting construction methods where feasible and reasonable (eg bore piles rather than impact driven piles).

#### 49.16 Equipment / Maintenance

- Select the quietest plant to perform a specific function and consider the noise levels of plant and equipment in rental or purchasing decisions.
- Regularly inspect and maintain equipment to ensure that it is in good working order.
- Equipment must not be operated until it is maintained or repaired, where maintenance or repair would address an annoying character of noise identified.
- Return any hired equipment that is causing noise that is not typical for the equipment – the increased noise may indicate the need for repair.

#### 49.17 Site Practices

- The offset distance between noisy plant and adjacent sensitive receivers should be maximised and restrict areas that mobile plant can be operated during sensitive times.
- Maximise shielding between plant and adjacent sensitive receivers by making use of natural landforms, temporary structures and stockpiles, and barriers.
- Operate plant in a quiet and efficient manner. Reduce throttle settings and turn off equipment when not being used.
- Where practicable, avoid the coincidence of noisy plant/machinery working simultaneously in close proximity to sensitive receivers.
- Minimise disturbance arising from delivery of goods to construction sites by:
  - avoid queuing of vehicles where practicable or ensure engines are switched off to reduce their overall noise impacts on receivers
  - minimise the use of engine brakes
  - fit delivery vehicles with straps rather than chains



- select site access points and roads as far away as possible from sensitive receivers and provide shielding where practicable.

#### 49.18 Work Scheduling

- Where feasible and reasonable, construction should be carried out during standard construction hours (daytime period). Work generating high noise and/or vibration should be scheduled during less sensitive time periods.
- Where additional activities or plant may only result in a marginal noise increase and speed up works, consider limiting duration of impacts by concentrating noisy activities at one location and move to another as quickly as possible.
- Schedule delivery of materials to occur during the day or early evening periods only.
- Organise deliveries and access to optimise the number of vehicle trips to and from the site – movements can be organised to amalgamate loads rather than using a number of vehicles with smaller loads.

#### 49.19 Physical Methods

- Reduce the line-of-sight transmission from noise emissions sources to residences or other sensitive land uses using temporary barriers or mobile screens.
- Erect temporary noise barriers before work commences to ensure noise is minimised during the entire shift.
- Consider the height of mobile screens and barriers to ensure adequate shielding to multistorey dwellings.

### 50. Non Aboriginal Heritage

50.1 All personnel working on site will receive training in their responsibilities under the *Heritage Act 1977*.

50.2 If any item of European heritage is discovered during works, work shall cease immediately and the project heritage consultant, the relevant Council and/or Office of Environment and Heritage notified.

50.3 Work shall not recommence until the significance of the find is established.

### 51. Aboriginal Heritage

51.1 If suspected Aboriginal material has been uncovered as a result of development activities within the Project Area:

- Work in the surrounding area is to stop immediately;
- A temporary fence is to be erected around the site, with a buffer zone of at least 10 metres around the known edge of the site;
- An appropriately qualified archaeological consultant is to be engaged to identify the material; and
- If the material is found to be of Aboriginal origin, the Aboriginal community is to be consulted in a manner as outlined in the OEH guidelines: Aboriginal Cultural Heritage Consultation Requirements for Proponents (2010).

51.2 Should human remains be located at any stage during earthworks within the Project Area, all works must halt in the immediate area to prevent any further impacts to the remains. The site should be cordoned off and the remains themselves should be left untouched. The nearest police station, the relevant Local Aboriginal Land Council and the OEH Regional Office are all to be notified as soon as possible.

51.3 If Aboriginal cultural materials are uncovered as a result of development activities within the Project Area, they are to be registered as Sites in the Aboriginal Heritage Information Management System (AHIMS) managed by the OEH. Any management outcomes for the site will be included in the information provided to the AHIMS.

- 51.4 All efforts must be taken to avoid any impacts on Aboriginal Cultural Heritage values at all stages during the development works. If impacts are unavoidable, mitigation measures should be negotiated between the Proponent, OEH and the Aboriginal community.

## **52. Restriction on Hours during Construction**

- 52.1 The undertaking of any construction activity on the subject site is to be limited to the following hours:
- Monday to Friday inclusive: 7.00am to 6.00pm;
  - Saturdays: 8.00am to 1.00pm; and
  - Sundays and Public Holidays: No work permitted.
- 52.2 Entry and departure of vehicles from the site will be restricted to the imposed work hours.
- 52.3 Activities may be undertaken outside of hours in measures 49.9 and 52.1 if required:
- By the police or a public authority for the delivery of vehicles, plant or materials; or
  - In an emergency to avoid the loss of life, damage to property or to prevent environmental harm.
- 52.4 Where the works are inaudible at the nearest external sensitive receiver, a disruption notice has been issued by the relevant Local Area Health District (LHD) or hospital and a letter of support has been provided from the relevant LHD or hospital for the Out of Hours Works.
- 52.5 Consideration will be given to extending these hours to allow for specific work tasks on a case by case basis, subject to approval from HI being sought prior to this occurring and the assessment of any impact of this extension.

## **53. Access and pedestrian movements**

- 53.1 Safe pedestrian access and movement to the hospital and surrounding buildings shall remain unimpeded at all times.
- 53.2 Appropriate signage and directional information shall be provided.

## **Prior to commencement of operation**

**Note:** The following Measures are to be complied with prior to commencement of operation of the facility.

## **54. Works as Executed**

Prior to use of the facility, "Works as Executed" drawings are to be submitted to HI.

## **55. Structural certification**

- 55.1 All new buildings and structures, and any alterations or additions to existing buildings and structures, shall have a structural certificate prior to the use of the facility.
- 55.2 The structural certificate must be prepared by a qualified and practicing Structural Engineer and confirms that the structural work is compliant with the structural drawings.
- 55.3 A copy of the structural certificate is to be provided to the Crown Certifier.

## **56. Warm water systems and cooling systems**

- 56.1 Prior to the use of the facility, the installation of warm water systems and water cooling systems (as defined under the Public Health Act 2010) must comply with the Public Health Act 2010, Public Health Regulation 2012 and Part 1 (or Part 3 if a Performance-based water cooling system) of AS/NZS 3666.2:2011 Air handling

and water systems of buildings – Microbial control – Operation and maintenance, and NSW Health Code of Practice for the Control of Legionnaires' Disease.

56.2 Documentation demonstrating compliance must be submitted to the Crown Certifier.

#### **57. Fire safety certification**

57.1 Prior to the use of the facility, a Fire Safety Certificate must be obtained for all Essential Fire or Other Safety Measures required as part of the operation of the activity.

57.2 A copy of the Fire Safety Certificate is to be provided to the Crown Certifier, the hospital and/or the LHD.

#### **58. Post-construction dilapidation report**

58.1 Prior to use of the facility, a post-construction dilapidation report is to be prepared.

58.2 The post-construction dilapidation report should:

- a. Identify whether the construction work created any structural damage to affected infrastructure, as identified in the pre-construction dilapidation report at mitigation measure 24;
- b. Have written confirmation from the relevant infrastructure authorities that there is no damage to their infrastructure; and
- c. Be provided to the hospital, Council, asset or other provider and the Crown Certifier in the form of a Post-Construction Dilapidation Report.

58.3 Where the post-construction dilapidation report determines that there is damage to infrastructure as a result of construction activity, the Proponent must repair any damage caused by carrying out the works.

#### **59. Post-construction survey – adjoining properties**

59.1 Prior to the use of the facility, a post-construction survey report is to be prepared.

59.2 The post-construction survey should:

- a. Identify whether construction work caused any damage to affected buildings identified in the pre-construction survey at mitigation measure 25; and
- b. Be provided to the owner of identified buildings and Crown Certifier in the form of Post-Construction Survey Report.

59.3 Where the post-construction survey report determines that there is damage to a building as a result of construction activity, the Proponent must repair any damage caused by carrying out the works.

#### **60. Operational waste management**

60.1 Prior to the use of the facility, any operational waste management measures necessary for the activity shall be finalised in an Operational Waste Management Plan. This plan should outline how waste would be minimised, handled, stored and disposed of appropriately, including in accordance with any relevant guidelines.

60.2 A copy of the Operational Waste Management Plan is to be provided to the Crown Certifier, hospital and/or LHD.

#### **61. Safer by Design**

61.1 Prior to the use of the facility, it must be demonstrated to the Crown Certifier that the relevant and reasonable recommendations of the Crime Prevention Through Environmental Design/Safer By Design report titled Built Form and Urban Design Report prepared by dwp dated 18/05/2023 have been incorporated into the activity. This includes safer by design operational measures (where provided).

## **62. Stormwater operation and maintenance plan**

- 62.1 Prior to the use of the facility, a Stormwater Operation and Maintenance Plan is to be prepared and submitted to the satisfaction of the Crown Certifier. The Stormwater Operation and Maintenance Plan shall ensure that stormwater quality measures remain effective and contain the following:
- a. Maintenance schedule of all stormwater quality treatment devices;
  - b. Record and reporting details; and
  - c. Work Health and Safety requirements.
- 62.2 A copy of the Stormwater Operation and Maintenance Plan is to be provided to the hospital and/or LHD.

## **63. Flood management**

- 63.1 Prior to the use of the facility, it must be demonstrated to the Crown Certifier that the relevant and reasonable recommendations of the flood management report titled [insert report name] prepared by [insert consultant name] have been incorporated into the activity. This includes any operational emergency management measures (where provided).

## **64. Water management**

- 64.1 Prior to the use of the facility, it must be demonstrated to the Crown Certifier that the relevant and reasonable recommendations of the water quality assessment report titled [insert report name] prepared by [insert consultant name] have been incorporated into the activity. This includes any water management measures (where provided).
- 64.2 A copy of water management measures is to be provided to the hospital and/or LHD. *<Note: Delete this measure if no operational water management measures>.*

## **65. External Lighting**

- 65.1 Prior to the use of the facility, it must be demonstrated to the Crown Certifier that the external lighting complies with Australian Standard AS/NZS 4282:2019 Control of the Obtrusive Effects of Outdoor Lighting.

## **66. Mechanical ventilation**

- 66.1 Prior to the use of the facility, it must be demonstrated to the Crown Certifier that the mechanical ventilation systems complies with:
- a. Australian Standard AS 1668.2-2012 The use of ventilation and air-conditioning in buildings – Mechanical ventilation in buildings and other relevant codes; and
  - b. Any dispensation granted by Fire and Rescue NSW.

## **67. Operational Noise – Plant and Machinery**

Prior to the use of the facility, it must be demonstrated to the Crown Certifier that noise associated with the operation of any mechanical plant or machinery does not exceed the relevant project noise trigger levels as recommended in the Noise and Vibration Impact Assessment prepared by Muller Acoustic Consulting and dated 16/08/2022.

## **68. Landscaping**

Prior to the use of the facility, landscaping of the site in accordance with the landscape plans under mitigation measure 2 must be completed to the satisfaction of the Crown Certifier.

## **69. Landscape Management Plan**

- 69.1 Prior to the use of the facility, a Landscape Management Plan must be prepared that provides measures for on-going operation and management of landscaping.

69.2 A copy of the Landscape Management Plan is to be provided to the Crown Certifier, hospital and/or LHD.

## 70. Car Parking

70.1 Prior to the use of the facility, it must be demonstrated to the Crown Certifier that the following requirements for car parking have been satisfied:

- a. The provision of a maximum of 145 car parking spaces;
- b. The layout and design of car parking complies with the relevant Australian Standards;
- c. Associated lighting to the car parking facilities, and any required operational measures; and
- d. Appropriate wayfinding and advisory signage.

## 71. Green Travel Plan

71.1 Prior to the use of the facility, a Green Travel Plan must be finalised and implemented.

71.2 A copy of the Green Travel Plan is to be provided to the Crown Certifier, hospital and/LHD.

## 72. Signage

Prior to the use of the facility, signage and directional information must be installed to the satisfaction of the Crown Certifier. This includes any necessary advisory signage and/or wayfinding and identification signage described in the Gunnedah Hospital Redevelopment Wayfinding and Signage Report, prepared by Minale Tattersfield, dated 10/05/2023.

## Post occupation

**Note:** The following Conditions are to be complied with post occupation of the facility.

## 73. Operation of plant and machinery

All plant and equipment used as part of the activity must be maintained and operated in proper and efficient condition.

## 74. Green Travel Plan

The Green Travel Plan required by mitigation measure 71 must be reviewed annually by ptc. and if required, updated to ensure green travel measures remain properly implemented.

## 75. External lighting

Should the external lighting result in any impacts on the amenity surrounding sensitive receivers, the Proponent must provide appropriate measures to reduce the impacts. Such measures may include adjusting light mounting and direction, and/or screening devices such as shades.

## 76. Stormwater management

Stormwater management systems, including any water treatment systems, must be maintained and operated in a proper and efficient condition.

<Note: If Stormwater Operation and Management Plan is provided under measure 65, replace with below measure>:

Stormwater management systems, including any water treatment systems, must be maintained and operated in a proper and efficient condition and in accordance with the Stormwater Operation and Management Plan at mitigation measure 66 [replace if different number].

## 77. Discharge limits

The activity must remain compliant with Section 120 of the POEO Act, which prohibits the pollution of waters.

#### **78. Sustainability**

Within 6 months of operation of the facility, the Crown Certifier is to be provided with evidence that the activity attains the minimum number of ESD points as required by mitigation measure 14.2.

#### **79. Landscape management**

Landscaping must remain appropriately maintained, and cared, for in accordance with the Landscape Management Plan required at mitigation measure 69.

#### **80. Hazards and risks**

Chemicals, fuel and oils that could be used on the site are to be handled in accordance with:

- a. The requirements of relevant Australian Standards; and/or
- b. The EPA Storing and Handling of Liquids: Environmental Protection – Participants Manual if the chemicals are liquids.

#### **81. Dangerous goods**

Dangerous goods, as defined by the Australian Dangerous Goods Code, are to be stored and handled in accordance with all relevant Australian Standards.

### **Advisory Notes**

#### **AN1 Project Compliance – Town Planning Approvals – Guide to Post Approval Management (Feb 2023)**

Health Infrastructure (HI) is responsible for ensuring that the conditions of consent are complied with during the course of the delivery of the project. To ensure that HI is complying with its legal obligations, compliance with the requirements of HI's *Town Planning Approvals – Guide to Post Approval Management (Feb 2023)* is required.