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**REPORT TO  
HEALTH INFRASTRUCTURE**

**ON  
PRELIMINARY HAZARD ANALYSIS**

**FOR  
PROPOSED NEW INTEGRATED SERVICES  
BUILDING**

**AT  
LIVERPOOL HOSPITAL, MAIN CAMPUS, ELIZABETH  
STREET, LIVERPOOL, NSW**

Date: 25 February 2020

Ref: E32837BDrpt PHA

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#### DOCUMENT REVISION RECORD

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## Abbreviations

Final Hazard Analysis	FHA
Initial Risk Rating	IRR
JK Environments	JKE
Managed Risk Rating	MRR
Preliminary Hazard Analysis	PHA
Safety Data Sheet	SDS
State Significant Development Application	SSDA
Work Health and Safety	WHS

## **1 INTRODUCTION**

Johnstaff Projects Pty Ltd on behalf of Health Infrastructure ('the client') commissioned JK Environments (JKE) to undertake a Preliminary Hazard Analysis (PHA) for the proposed new Integrated Services Building (ISB) at Liverpool Health + Academic Precinct (Liverpool Hospital), Main Campus, Elizabeth Street, Liverpool, NSW ('the site'). The main campus is also referred to as the western campus. The site location is shown on Figure 1 attached in the appendices.

This report has been prepared for the proposed new Integrated Services Building (ISB) development and supports the lodgement of the associated State Significant Development Application (SSDA).

The PHA was undertaken to identify existing hazardous materials (e.g. radioactive, hazardous chemicals and dangerous goods) and risks associated with the use of such materials in the hospital for health services including pathology and radiation oncology. The proposed new ISB development will include similar health services and therefore expected to utilise similar hazardous materials.

This PHA was undertaken to address the requirements of State Environmental Planning Policy No. 33 – Hazardous and Offensive Development (SEPP 33). The PHA has been undertaken with reference to the following: Hazardous and Offensive Developments Application Guidelines; Apply SEPP 33 Analysis (NSW Department of Planning, 2011); and the Hazardous Industry Planning Advisory Paper No.6- Hazard Analysis (NSW Department of Planning, 2011).

The PHA does not seek to address potential workplace exposures to hazardous materials which must also be controlled in accordance with NSW Work Health and Safety (WHS) legislation, relevant standards codes, guidelines and a compliant Safety Data Sheet (SDS) prepared by the manufacturer/importer.

### **1.1 Aim and Objectives**

The primary aim of the PHA is to identify if the proposed ISB development (summarised in Section 2.3) is classed as a 'potentially hazardous industry' or 'potentially offensive industry' or both.

The analysis objectives were to: identify risks associated with the handling; storage; and disposal of hazardous materials that are currently used at the site and that are expected to be utilised for similar health services following the completion of the ISB development.

### **1.2 Scope of Work**

The PHA was undertaken generally in accordance with a JKE proposal (Ref: EP51206BD) of 13 February 2020 and written acceptance from the client of 19 February 2020. The scope of work included the following:

- Review of available desktop site information relating to the quantity, handling, storage and disposal of hazardous materials at the site;
- Assessment of potentially hazardous activities;

- 
- Inspection of accessible areas of the site to identify the storage, use and disposal of hazardous materials;
  - Review of current hazardous material/waste management procedures; and
  - Preparation of a report including a qualitative risk assessment, discussion and recommendations.

The analysis was undertaken following discussions with hospital administrative and operation staff and with reference to documentation and information provided on behalf of Health Infrastructure.

The scope of works was undertaken with reference to SEPP33 and the Hazardous Industry Planning Advisory Paper No.6- Hazard Analysis (NSW Department of Planning, 2011).

## 2 SITE INFORMATION

### 2.1 Site Identification

Table 2-1: Site Identification

<b>Current Site Owner:</b>	Health Infrastructure NSW
<b>Site Address:</b>	Part of 50 Goulburn Street, Liverpool, NSW (Liverpool Hospital). Address also known as Elizabeth Street, Liverpool, NSW.
<b>Lot &amp; Deposited Plan:</b>	Part of Lot 501 DP 1165217
<b>Current Land Use:</b>	Hospital
<b>Proposed Land Use:</b>	Hospital
<b>Local Government Authority:</b>	Liverpool City Council
<b>Current Zoning:</b>	SP2 Infrastructure (Health Services Facility and Education) – Liverpool LEP 2008 (Liverpool Hospital)
<b>Site Area (m<sup>2</sup>):</b>	Approximately 23,000m <sup>2</sup>
<b>RL (AHD in m) (approx.):</b>	11-14
<b>Geographical Location (decimal degrees) (approx.):</b>	Latitude: -33.919454 Longitude: 150.928948
<b>Site Location Plan:</b>	Figure 1

### 2.2 Site Location, Use and Regional Setting

The site is located in a predominantly residential and commercial area of Liverpool and within the west section of Liverpool hospitals western campus. The site is bounded by Campbell Street to the north, Goulburn Street to the west, Elizabeth Street to the south and Liverpool Hospital western campus to the west.

The site is currently occupied for hospital health services including pathology, radiation oncology and education. The buildings currently located at the site are identified as the Cancer Building, Pathology Building, Alex Grimson Building and the Thomas and Rachael Moore Education Centre.

The west section of the site is located approximately 25m to the east of an area occupied for medium density landuse. The north section of the site is located approximately 50m to the south west of Liverpool Girls High School. The south east section of the site is located approximately 220m to the north-west of Georges River.

### **2.3 Proposed Integrated Services Building (ISB) Development**

JKE understand that the proposed development will include demolition of the existing Cancer Building, Pathology Building, Alex Grimson building and the Thomas and Rachael Moore Education Centre.

A new three to six storey ISB is to be constructed, with plant and equipment at roof level. We understand that the existing oncology bunkers are to be retained. The ISB building is proposed to be occupied for hospital health services including pathology, palliative care, radiation, birthing, medical imaging, cancer day therapy, radiation oncology, cancer clinic, pharmacy and retail. The proposed new building will be underlain by a partial basement level located in central section of the site. The basement will be occupied by the engineering department, additional pathology, distribution centre with storage and a loading dock. The proposed development plans are attached in the appendices.

The proposed development details are generally conceptual at this stage. The location of stored hazardous materials is to be confirmed during the detail design and prior to construction works.

JKE understand that the proposed ISB development is to be staged. Stage 1 includes the construction of the portion of the ISB in the south section of the site, after which the majority hazardous material currently stored in the Pathology and Alex Grimson Buildings are to be relocated to the Stage 1 ISB. Stage 2 includes construction of the remaining portion of the ISB in the north section of the site.

### 3 POTENTIALLY HAZARDOUS ACTIVITIES

#### 3.1 Desktop Review

##### 3.1.1 NSW EPA Records

The NSW EPA records available online were reviewed by JKE. The search indicated the following:

- The South Western Sydney Area Health Service formerly held a licence (No.11355) under the Protection of the Environment Operations Act (1997)<sup>1</sup>. The licence related to the storage of Hazardous, Industrial or Group A Waste Generation (>100-500 T). The location of the storage operation within the hospital could not be confirmed from the licence. The licence status was identified as “*no\_longer\_in\_force*”;
- The NSW Health Pathology holds a current NSW EPA Radiation Management Licence (No.5061637) under the Radiation Control Act (1990). JKE understand that the licence type includes “*Sell, possess, store or give away regulated material (including radiation apparatus, radioactive substance or items containing radioactive substance) for 1 year*”. The licence expires on 9 September 2020. The licence lists the self-shielded irradiator (sealed source device), located within the Pathology Building at the site. The Licence is attached in the appendices; and
- The Southern Western Sydney Local Health District holds a second current NSW EPA Radiation Management Licence (No.5061564) under the Radiation Control Act (1990). JKE understand that the licence type includes “*Sell, possess, store or give away regulated material (including radiation apparatus, radioactive substance or items containing radioactive substance) for 1 year*”. The licence expires on 2 June 2020. The licence lists multiple equipment within the hospital and mostly related to radiography/fluoroscopy equipment within the hospital, including mobile radiology equipment which may be used within the site at time. The licence lists the Group C, Therapy Device (sealed source device), located within the Oncology Bunkers at the site. The Oncology Bunkers are to be retained as part of the proposed ISB development. The Licence is attached in the appendices.

##### 3.1.2 SafeWork NSW Records

SafeWork NSW records for Liverpool hospital were obtained by JKE in 2019 for as part of an assessment for potential contamination issues at the hospital. The records indicated that a number of former hazardous goods were stored at the hospital including petroleum and diesel Underground Storage Tanks and Above Ground Storage Tanks. The SafeWork NSW records are attached in the appendices.

The records indicate that stored hazardous chemicals including Ethyl Alcohol Solution (2,000L), Acetone (100L), Xylene (1,00L) and medial gases (3,500L) are located immediately to the east of the existing pathology building (see Figure 1).

##### 3.1.3 Liverpool Hospital Stockholdings Register

JKE were provided with the Liverpool Hospital stock holding register for hazardous and non-hazardous materials. The stock holdings register is attached in the appendices. Based on our review of the register,

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<sup>1</sup> Protection of the Environment Operations Act 1997 (NSW). (referred to as POEO Act 1997)

there appears to be no records for storage of hazardous and non-hazardous materials within the Education building. However, the register indicates that various hazardous materials are stored within the Pathology, Alex Grimson and Cancer buildings. The quantities of the hazardous materials are mostly minor, however cumulatively the hazardous materials storage and transport is assumed to be greater than the thresholds outlined in the Hazardous and Offensive Developments Application Guidelines, Apply SEPP 33 Analysis (NSW Department of Planning, 2011).

The hospital has also indicated that hazardous radioactive materials (radioisotopes) are utilised and stored at the following locations at the site:

- Brachytherapy Iridium-192 source (Cancer Therapy Centre, Bunker 4);
- Blood irradiator Caesium-137 (Pathology Building); and
- Nuclear Medicine Waste's Store (P3 basement). JKE note that this waste store is located outside of the proposed ISB development area. Based on anecdotal information provided by hospital staff, JKE understand that the nuclear waste store includes dedicated pipe work to two stored vessels, where nuclear liquid waste is left to decay for a period of time and diluted (with water) prior to discharge to the sewer network. At the time of reporting, it was unknown if the pipework was connected to the Cancer Therapy Centre located in the north section of the ISB development area.

### **3.2 Site Inspection**

A walkover inspection of the site was undertaken by JKE on 18 and 20 February 2020. The inspection was limited to the accessible internal areas of the Cancer building (including the Oncology bunkers), the Alex Grimson, Pathology and Cancer buildings.

Based on our visual observations during the site inspection, the stored hazardous materials at the site appeared to have been adequately stored in hazardous goods storage cabinets, rooms and/or within fume hoods. Ventilation and alarm systems were evident. Wash facilities, spill kits and waste disposal bins were evident.

The radioactive materials storage locations were locked and understood by JKE to be under 24-hour video surveillance.

The hazardous materials storage areas were only accessible by hospital staff, via swipe pass doors hence limiting access to the public. JKE also understand that the hospital is under 24-hour video surveillance and security is present at the hospital permanent basis (i.e. 24h/day, 7 days/week).

Representative photographs taken during the site inspection and additional site inspection information are attached in the appendices.

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## **4 CURRENT WASTE MANAGEMENT PROCEDURES**

### **4.1 Onsite Clinical Waste Collection**

Clinical wastes (including sharps) are collected in yellow hazardous material receptacles and cytotoxic wastes are collected in purple hazardous material receptacles. The receptacles are transported to a storage area on-site by appropriately trained staff. The storage area is locked and secured at all times.

Empty gas cylinders containing carbon dioxide, mixed gases, argon, nitrogen, helium are transported to the locked loading dock, located on the ground floor at the east end of Pathology building (see photos in the appendices).

### **4.2 Clinical Waste Storage**

The clinical waste receptacles are stored in a locked, temperature-controlled container until such time as the clinical waste disposal contractor collects the containers and transports them by road to the disposal site.

Empty and charged gas cylinders are stored in the locked loading dock, located on the ground floor at the east end of Pathology building.

Liquid nitrogen (excess of 2,000L) is delivered twice per week and is stored in the Bone Marrow Transplant Department, located on the ground floor of the Pathology building.

### **4.3 Clinical Waste Transport**

JKE understand that general waste is collected approximately 6 days per week and waste bins identified for secure destruction are collected twice per week depending on the volume of waste. The clinical waste is transported and disposed off-site (presumably to a suitability Licensed NSW EPA Facility) 2 days per week by Labtech Services and Supplies Pty Ltd.

Clinical and related wastes are classified as 'Specials Waste' under the NSW EPA Waste Classification Guidelines - Part 1: Classifying Waste (2014)<sup>2</sup>.

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<sup>2</sup> NSW EPA, (2014). *Waste Classification Guidelines, Part 1: Classifying Waste*. (referred to as Waste Classification Guidelines 2014)

## 5 RISK ANALYSIS METHODOLOGY

The risk analysis methodology used in this PHA is based on AS/NZS ISO 31000:2009 *Risk Management – Principles and guidelines*. This standard outlines the following process:

1. Establish the Context;
2. Identify the Risks;
3. Analyse the Risks;
4. Evaluate the Risks; and
5. Treat the Risks.

Steps 1 and 2 of this process have been undertaken in previous sections of this report. Steps 3 to 5 are undertaken in Section 7. The process for analysis and evaluation uses a Risk Assessment Matrix to qualitatively assess each risk. This process is outlined in Tables 5-1, 5-2 and 5-3 below:

Table 5-1: Qualitative Measures of Likelihood

Likelihood Designation	Description
Almost Certain	Is expected to occur in most circumstances
Probable	Will probably occur
Possible	Might occur at some time
Unlikely	Could occur at some time
Rare	May occur but only in exceptional circumstances

Table 5-2: Adopted Qualitative Measures of Consequence

Severity	Description
Insignificant	Local treatment required – minor short term health effects
Minor	Medical treatment required – short term health effects
Moderate	Lost time injury – short to medium term health effects
Major	Extensive injuries – chronic health issues
Catastrophic	Fatality or permanent disability

Table 5-3: Qualitative Risk Analysis Matrix

Severity	Description				
	Insignificant	Minor	Moderate	Major	Catastrophic
Almost Certain	M	M	H	H	H
Probable	L	M	M	H	H
Possible	VL	L	M	H	H
Unlikely	VL	VL	L	M	H
Rare	VL	VL	L	M	M

H = High risk: Cannot be tolerated. Implement control measures to reduce risk

M = Medium risk: Undesirable. Implement control measures to reduce risk

L = Low risk: Tolerable only if implementation of further controls is impractical or impossible

VL = Very low risk: Accepted

## 6 PRELIMINARY HAZARD RISK ANALYSIS

The preliminary hazard risk analysis is outline in Table 6.1 below and includes a brief summary of relevant controls. This analysis focuses on preventing or minimising major hazardous incidents on site, primarily the release of radioactive materials, which could result in significant on and off-site effects to the public.

Table 6-1: Preliminary Hazard Risk Analysis

Hazard	Likelihood <sup>1</sup>	Consequence <sup>1</sup>	IRR <sup>2</sup>	Controls	MRR <sup>3</sup>	Comments
Unauthorised use of radioisotope materials and substance	Possible (Rare)	Moderate (Moderate)	M	Requisition and dispatch process are to be followed. Hospital must account for all radioisotopes used. Security is to be maintained.	L	Requisition process to be approved by NSW Health as industry best-practice.  The NSW EPA Radiation Management Licence's to be adhered to.
Exposure to radioisotopes due to lack of controls	Probable (Rare)	Moderate (Moderate)	H	Wastes stored in shielded cabinet prior to testing/release. Handled by specialist contractors. Security is to be maintained.	L	Collection & storage process to be approved by NSW Health and presumably be industry best-practice.  The NSW EPA Radiation Management Licence's to be adhered to.
Exposure to radioisotopes due to fire in storage area	Possible (Rare)	Moderate (Moderate)	L	Fire provisions are to be included for the ISB development. Staff should be adequately trained. The fire safety system should be tested regularly.	L	Health Infrastructure and/or their appointed representatives are to ensure existing fire controls adequate.
Exposure to radioisotopes due to entry in storage area	Possible (Rare)	Moderate (Moderate)	M	Entry to storage area only for trained authorised staff. Only those with authorisation to have access to keys. Security is to be maintained. Video surveillance to be maintained.	L	Health Infrastructure to ensure existing security is adequate or whether additional security is required.
Exposure to radioisotopes during off-site waste transport/ disposal	Unlikely (Rare)	Moderate (Moderate)	L	Waste decayed to allowable levels prior to offsite disposal and disposed of at a suitability licenced NSW EPA facility.	L	Contractor should have controls in place in the event of major transport accident which could expose public to the waste.

Hazard	Likelihood <sup>1</sup>	Consequence <sup>1</sup>	IRR <sup>2</sup>	Controls	MRR <sup>3</sup>	Comments
				Contractors are appropriately trained.		The NSW EPA Radiation Management Licence's to be adhered to.
Exposure to radioisotopes and other hazardous materials during transport to the new ISB storage locations	Unlikely (Rare)	Moderate (Moderate)	M	<p>At this stage, the methodology and controls for the proposed transport of radioisotopes and other hazardous materials has not been detailed.</p> <p>The above must be documented and implemented prior on-site transport of radioisotopes and other hazardous materials to the new ISB storage locations. This should be done by specialist contractors who hold appropriate licenses to transport such materials.</p>	L	<p>Health Infrastructure, NSW Health, other stakeholders and appropriately qualified consultants should develop a formal methodology for the transport of the hazardous materials from their existing storage locations to the new ISB storage locations. The methodology should include controls and indecent response. Security should be maintained. The methodology should be reviewed by third party experts.</p> <p>NSW EPA and SafeWork NSW should be contacted and advised of the proposed relocation of hazardous materials which relate to the relevant licences, prior to development of the formal transport methodology.</p>

Notes:

1 – Initial ranking without control measures, ranking in brackets with control measure implemented

2 – IRR = Initial Risk Rating

3 – MRR = Managed Risk Rating

## **7 DISCUSSION AND RECOMMENDATIONS**

The PHA indicates that the proposed ISB development could be considered a potentially hazardous industry. However, the preliminary hazard risk analysis outlined in Section 6 suggests that the current controls, storage and transport implemented for the hazardous materials at the site appear sufficient to reduce the potential public exposure of hazardous materials to a low level.

JKE assume that similar controls, storage and transport procedures for hazardous materials are to be implemented for the ISB development once constructed and operational.

The PHA identified that Health Infrastructure, NSW Health, other stakeholders and appropriately qualified consultants should develop a formal methodology for the transport of the hazardous materials from their existing storage locations to the new ISB storage locations. The methodology should include controls and incident response and should be reviewed by third party experts.

The NSW EPA and SafeWork NSW should be contacted and advised of the proposed relocation of hazardous materials which relate to the relevant licences, prior to development of the formal methodology for transport of hazardous materials to the new ISB.

The Hazardous Industry Planning Advisory Paper No.6- Hazard Analysis (NSW Department of Planning, 2011) indicates that PHA is required at the early stage of the project and typically for the development application. At the discretion of the consent authority, a Final Hazard Analysis (FHA) may be required.

NSW Health should undertake regular audits of the hospital processes and procedures to assess if current best practice hazardous waste controls are in place. NSW Health is responsible for coordinating with other government departments to ensure that the collection, storage, transport and disposal of hazardous waste is undertaken in accordance with current licenses and industry standards.

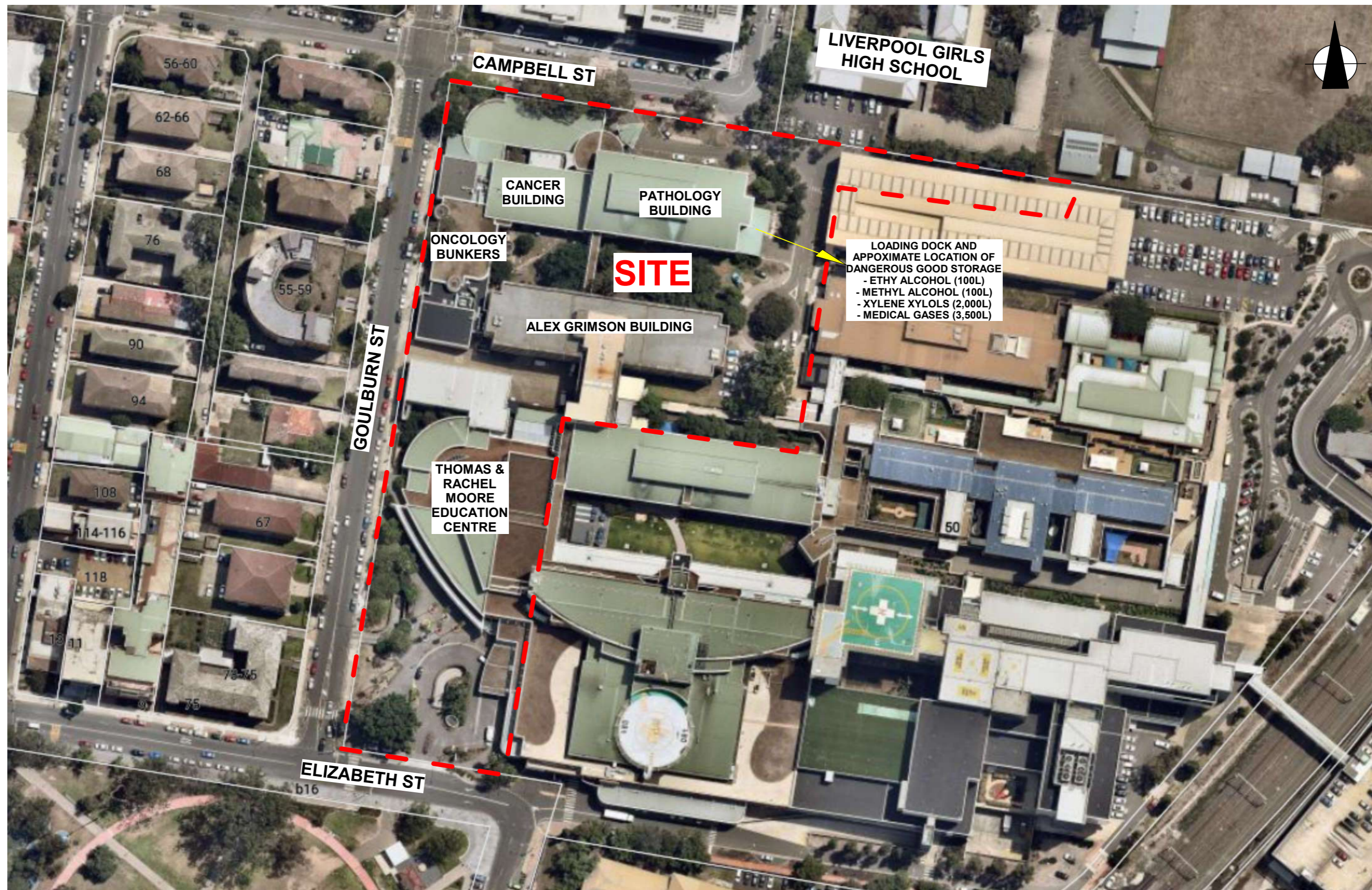
## 8 LIMITATIONS

The report limitations are outlined below:

- JKE accepts no responsibility for any unidentified hazardous materials at the site. Any unexpected hazardous materials that may be encountered during development works should be inspected by a suitably qualified consultant as soon as possible;
- This report has been prepared based on site conditions which existed at the time of the investigation; scope of work and limitation outlined in the JKE proposal; and terms of contract between JKE and the client (as applicable);
- The conclusions presented in this report are based on inspection of conditions at specific locations, chosen to be as representative as possible under the given circumstances, visual observations of the site and immediate surrounds and documents reviewed as described in the report;
- The preparation of this report have been undertaken with reference to applicable regulatory authority and industry standards and guidelines outlined in the report;
- Where information has been provided by third parties, JKE has not undertaken any verification process, except where specifically stated in the report;
- JKE have not and will not make any determination regarding finances associated with the site; and
- This report has been prepared for the particular project described and no responsibility is accepted for the use of any part of this report in any other context or for any other purpose.

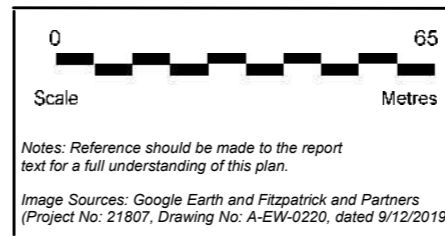


## **Appendix A: Report Figures**



LEGEND:

- - - - - APPROXIMATE SITE BOUNDARY



Title: <b>SITE LOCATION PLAN</b>	
Location: LIVERPOOL HOSPITAL, MAIN CAMPUS, ELIZABETH STREET, LIVERPOOL, NSW	
Project No: E32837BDrpt PHA	Figure No: 1
<b>JK ENVIRONMENTS</b>	



## **Appendix B: Proposed Development Plans**

# MAIN WORKS SSDA

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Elizabeth Street, Liverpool NSW

Revision: (INITIAL DRAFT FOR REVIEW)

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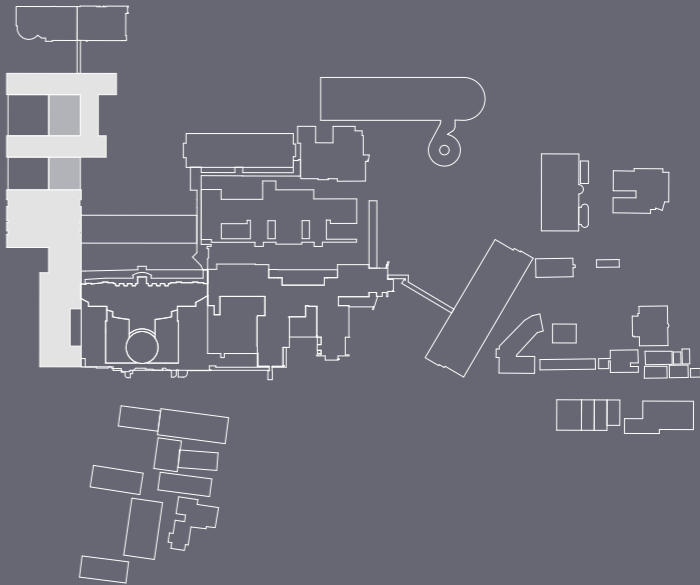
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MAIN WORKS - SSDA - DRAWING LIST

	COVER		
A-SSDA-MW-01	DRAWING LIST	A-SSDA-MW-40	VIEW ANALYSIS
A-SSDA-MW-02	LOCATION PLAN	A-SSDA-MW-41	VIEW ANALYSIS
A-SSDA-MW-03	EXISTING SITE PLAN	A-SSDA-MW-42	VIEW ANALYSIS
A-SSDA-MW-04	BUILDING DEMOLITION PLAN	A-SSDA-MW-43	VIEW ANALYSIS
A-SSDA-MW-05	BASEMENT DEMOLITION PLAN		
A-SSDA-MW-06	SITE PLAN		
A-SSDA-MW-07	BASEMENT		
A-SSDA-MW-08	GROUND PLAN		
A-SSDA-MW-09	LEVEL 1		
A-SSDA-MW-10	LEVEL 2		
A-SSDA-MW-11	LEVEL 3		
A-SSDA-MW-12	LEVEL 4		
A-SSDA-MW-13	LEVEL 5		
A-SSDA-MW-14	LEVEL 6 - PLANT		
A-SSDA-MW-15	ROOF		
A-SSDA-MW-16	SECTION THROUGH NORTH IPU TOWER		
A-SSDA-MW-17	SECTION THROUGH SOUTH IPU TOWER		
A-SSDA-MW-18	SECTION THROUGH EXISTING BUNKER		
A-SSDA-MW-19	SECTIONS THROUGH MAIN ENTRY		
A-SSDA-MW-20	SECTIONS THROUGH CAMPBELL STREET		
A-SSDA-MW-21	SECTIONS THROUGH ELIZABETH STREET		
A-SSDA-MW-22	NORTH ELEVATION		
A-SSDA-MW-23	EAST ELEVATION		
A-SSDA-MW-24	WEST ELEVATION 01		
A-SSDA-MW-25	WEST ELEVATION 02		
A-SSDA-MW-26	SOUTH ELEVATION		
A-SSDA-MW-27	SOUTH ELEVATION - EXISTING BUILDINGS		
A-SSDA-MW-28	SOUTH ELEVATION - NEW AMBULANCE STA		
A-SSDA-MW-29	FACADE DETAIL SECTION IPU		
A-SSDA-MW-30	FACADE DETAIL SECTION PODIUM		
A-SSDA-MW-31	FACADE DETAIL SECTION BRICK		
A-SSDA-MW-32	SCHEDULE OF FINISHES: SOUTH WEST VIEW		
A-SSDA-MW-33	SCHEDULE OF FINISHES: EAST VIEW		
A-SSDA-MW-34	3D VIEW: SOUTH WEST VIEW		
A-SSDA-MW-35	3D VIEW: NORTH WEST VIEW		
A-SSDA-MW-36	3D VIEW: NORTH EAST VIEW		
A-SSDA-MW-37	3D VIEW: EAST VIEW		
A-SSDA-MW-38	3D VIEW: NORTH VIEW		
A-SSDA-MW-39	SHADOW DIAGRAMS		

AMENDMENTS			
REV.	DATE	DESCRIPTION	
01	12/12/19	FOR REVIEW	
02	10/01/20	FOR REVIEW	
03	15/01/20	FOR REVIEW	

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060


PROJECT NORTH    SCALE  
  
25mm ON ORIGINAL


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PRINT DATE 15/01/2020		STATUS INITIAL DRAFT FOR REVIEW		

KEY SITES

- 01. westfield liverpool
- 02. liverpool public high schools
- 03. tafe liverpool
- 04. all saints catholic collage
- 05. liverpool public school
- 06. liverpool bus depot
- 07. university of western sydney
- 08. sydney southwest private hospital



liverpool hospital

health administration corporation owned sites

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AMENDMENTS		
REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

CHK	PROJECT
RP	LIVERPOOL HEALTH & ACADEMIC PRECINCT
RP	ELIZABETH STREET LIVERPOOL NSW
RP	CLIENT
	HEALTH INFRASTRUCTURE
	14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH



SCALE



25mm ON ORIGINAL

DRAWING

LOCATION PLAN

PRINT DATE

15/01/2020

PROJECT NO.

21807

DRAWING NO.

A-SSDA-MW-02

ISSUE

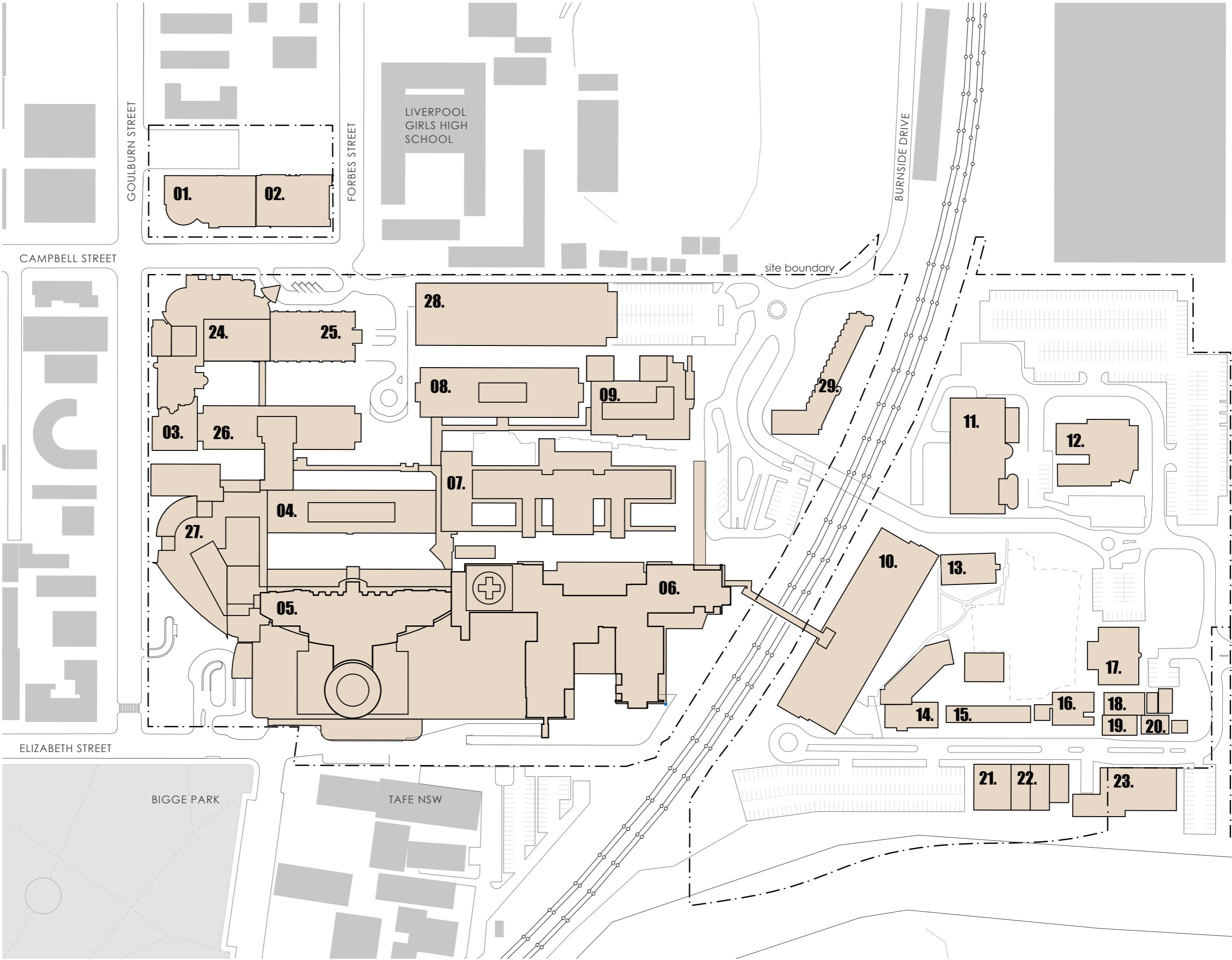
STATUS

INITIAL DRAFT FOR REVIEW

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 10. P4 multi-storey car park
- 11. central energy building
- 12. ngara health education
- 13. bungala building
- 14. child care centre
- 15. staff education training
- 16. physical recources
- 17. admin building
- 18. multicultural health services
- 19. biu admin
- 20. biu nursing area
- 21. interpret building
- 22. store shed
- 23. isd swsahs
- 24. cancer building
- 25. pathology building
- 26. alex grimson
- 27. thomas & rachael moore edu. centre
- 28. P2 car park
- 29. ron dunbier

- liverpool campus
- existing buildings



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AMENDMENTS		
REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW

CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:2000 @A3

25mm ON ORIGINAL

DRAWING  
EXISTING SITE PLAN

PRINT DATE  
15/01/2020

PROJECT NO. 21807	DRAWING NO. A-SSDA-MW-03	ISSUE
STATUS		INITIAL DRAFT FOR REVIEW

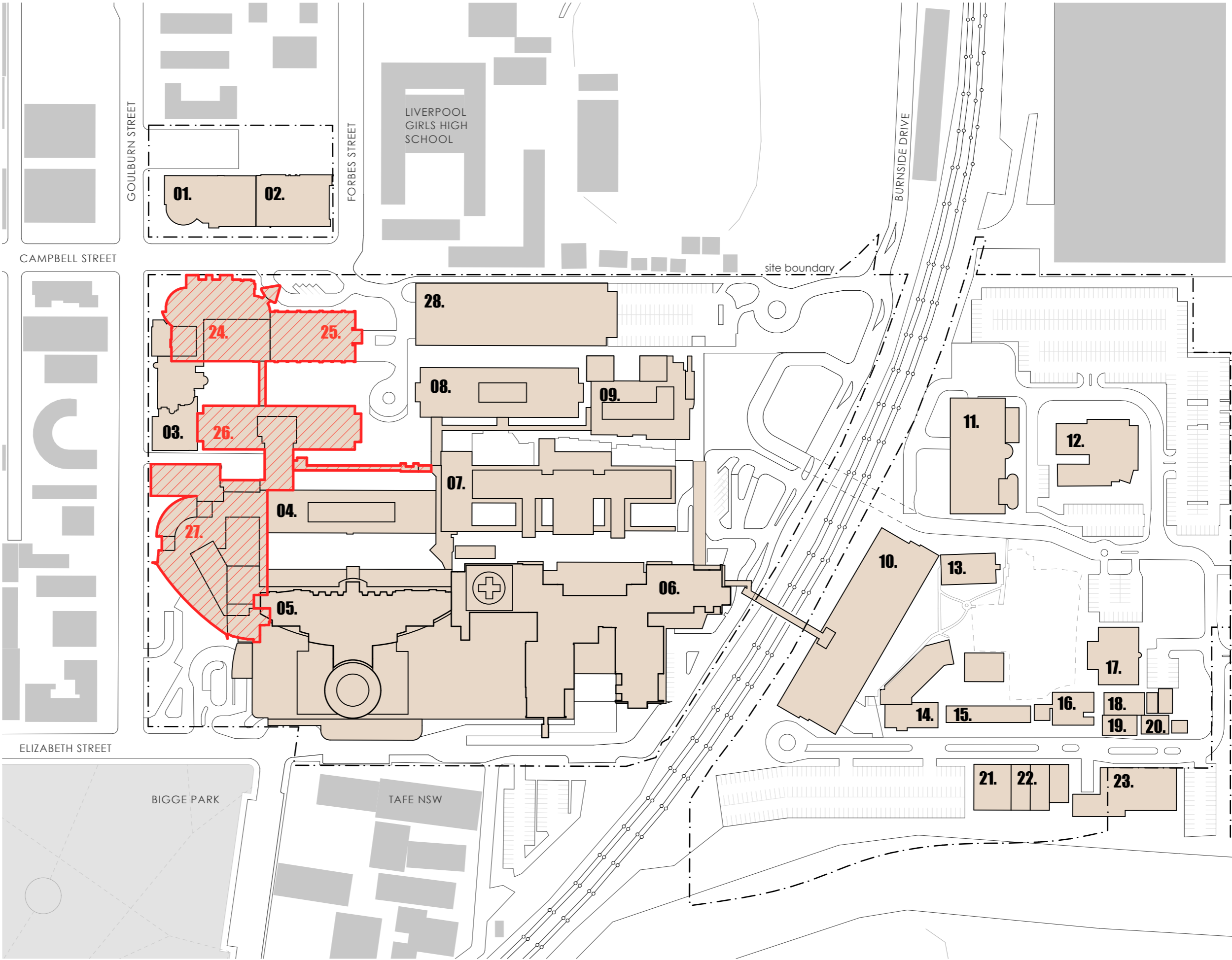
LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 10. P4 multi-storey car park
- 11. central energy building
- 12. ngara health education
- 13. bungala building
- 14. child care centre
- 15. staff education training
- 16. physical resources
- 17. admin building
- 18. multicultural health services
- 19. biu admin
- 20. biu nursing area
- 21. interpret building
- 22. store shed
- 23. isd swsahs
- 24. cancer building
- 25. pathology building
- 26. alex grimson
- 27. thomas & rachael moore education centre
- 28. P2 car park

buildings to be demolished

liverpool campus

existing buildings



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AMENDMENTS		
REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH

SCALE  
1:2000 @A3  
25mm ON ORIGINAL

DRAWING  
BUILDING DEMOLITION PLAN

PRINT DATE  
15/01/2020

PROJECT NO.  
21807

DRAWING NO.  
A-SSDA-MW-04

ISSUE

STATUS  
INITIAL DRAFT FOR REVIEW

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 10. P4 multi-storey car park
- 11. central energy building
- 12. ngara health education
- 13. bungala building
- 14. child care centre
- 15. staff education training
- 16. physical recources
- 17. admin building
- 18. multicultural health services
- 19. biu admin
- 20. biu nursing area
- 21. interpret building
- 22. store shed
- 23. isd swsahs
- 24. cancer building
- 25. pathology building
- 26. alex grimson
- 27. thomas & rachael moore
- education centre
- 28. P2 car park

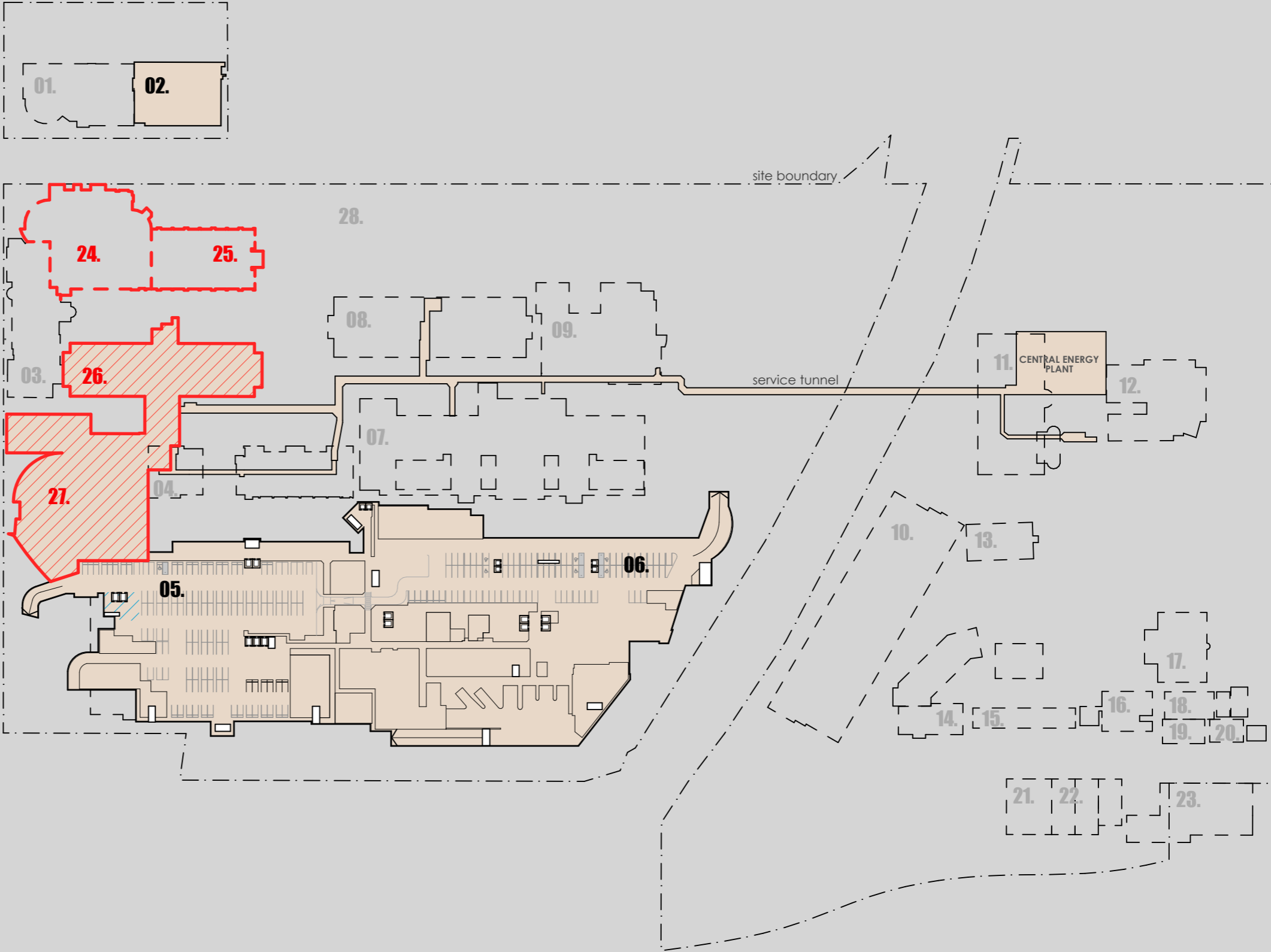
buildings above shown dotted

buildings above to be demolished

basement to be demoslshed

liverpool campus

existing buildings



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AMENDMENTS	REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW	
02	10/01/20	FOR REVIEW	
03	15/01/20	FOR REVIEW	

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:2000 @A3  
25mm ON ORIGINAL

DRAWING  
BASEMENT DEMOLITION PLAN  
PRINT DATE  
15/01/2020

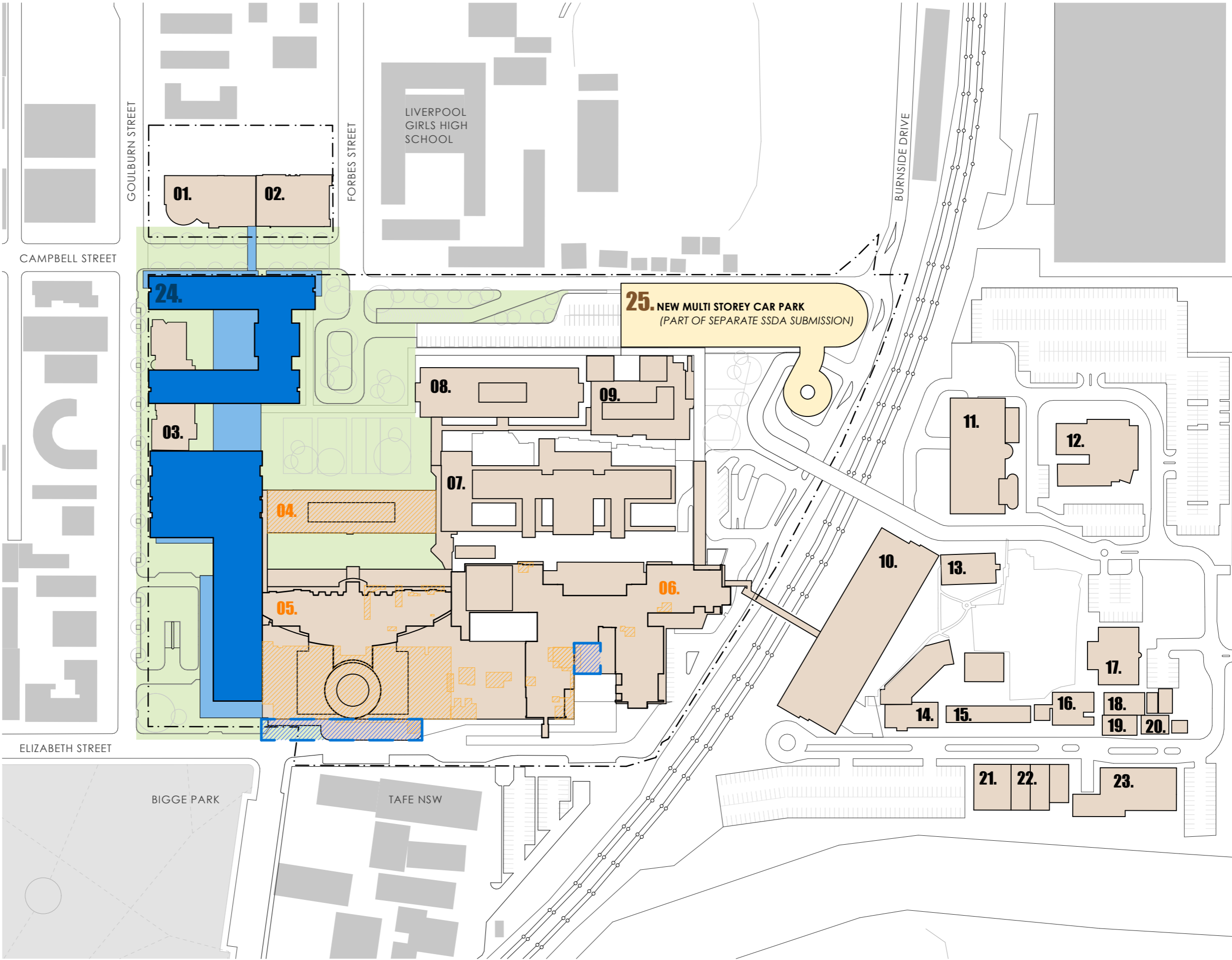
PROJECT NO.  
21807  
DRAWING NO.  
A-SSDA-MW-05  
ISSUE  
STATUS  
INITIAL DRAFT FOR REVIEW

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 10. P4 multi-storey car park
- 11. central energy building
- 12. ngara health education
- 13. bungala building
- 14. child care centre
- 15. staff education training
- 16. physical resources
- 17. admin building
- 18. multicultural health services
- 19. biu admin
- 20. biu nursing area
- 21. interpret building
- 22. store shed
- 23. isd swsahs
- 24. new integrated services building (ISB)
- 25. new multi storey car park (part of separate SSDA)

\* BUILDINGS 04, 05 & 06 TO BE REFURBISHED INTERNALLY

- landscape works
- new integrated services building (ISB)
- external facade/works to existing clinical services buildings
- refurbished area of existing building. internal works only
- liverpool campus
- existing buildings



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AMENDMENTS		
REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
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


DRAWING  
SITE PLAN  
PRINT DATE  
15/01/2020

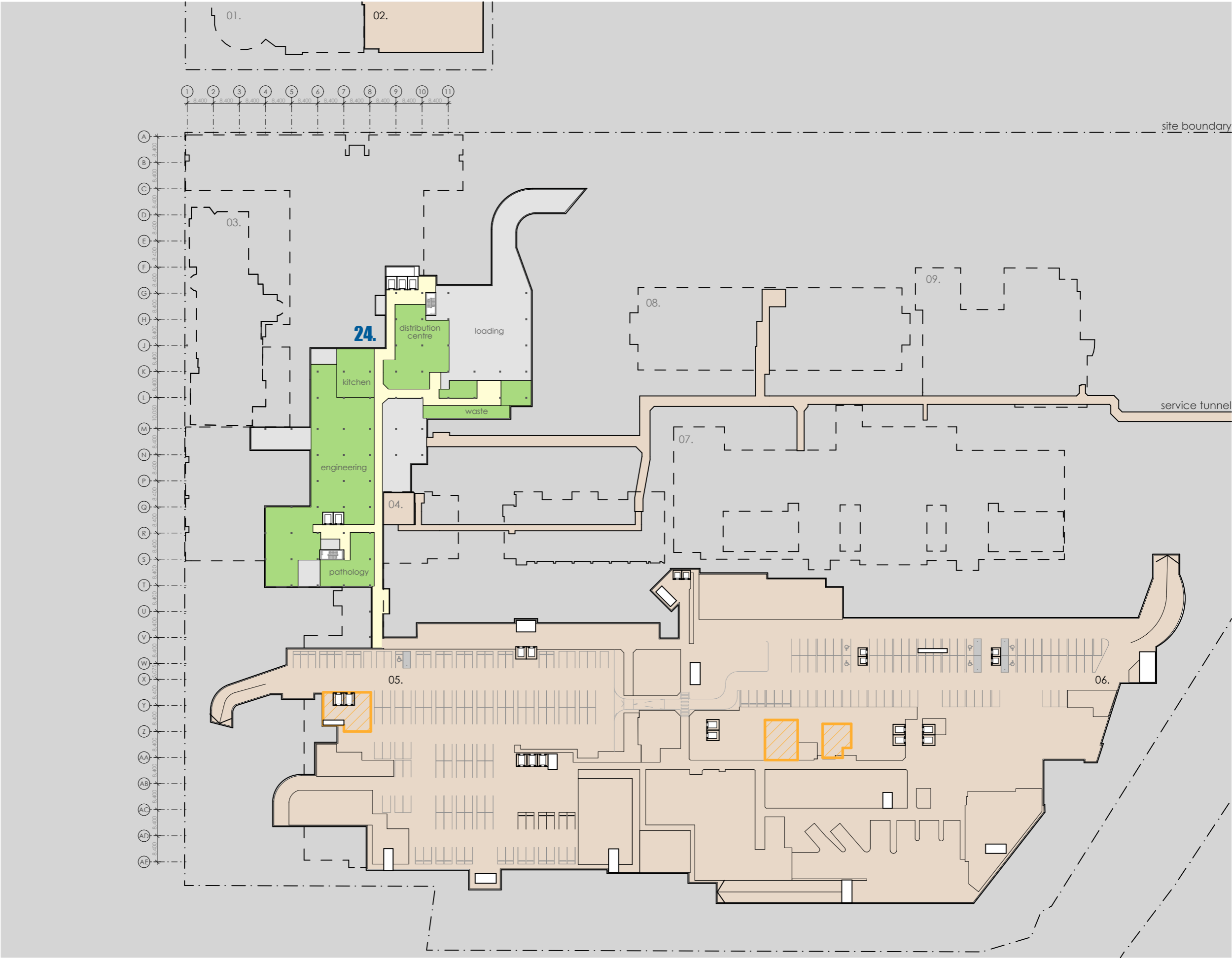
PROJECT NO.  
21807  
DRAWING NO.  
A-SSDA-MW-06  
ISSUE  
STATUS  
INITIAL DRAFT FOR REVIEW

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

BASEMENT RL+ 7.900

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  buildings above shown dotted
-  liverpool campus
-  existing clinical buildings



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REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

DESCRIPTION  
FOR REVIEW  
FOR REVIEW  
FOR REVIEW

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
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DRAWING  
BASEMENT  
PRINT DATE  
15/01/2020

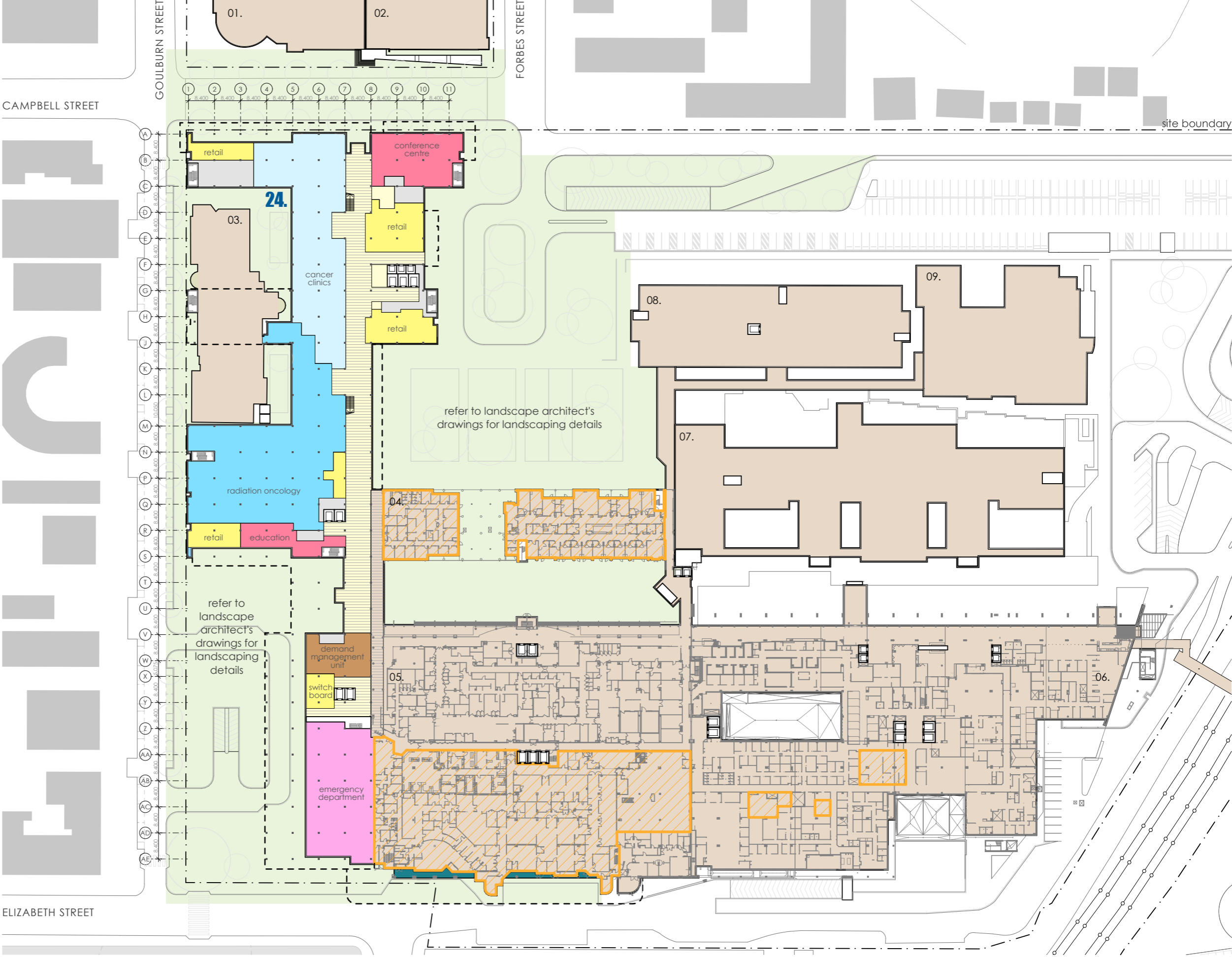
PROJECT NO.  
21807  
DRAWING NO.  
A-SSDA-MW-07  
ISSUE  
STATUS  
INITIAL DRAFT FOR REVIEW

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

GROUND FLOOR RL+ 12.200

- landscape works
- refurbished area of existing building, internal works only
- new external facade/works expansion of existing building
- liverpool campus
- existing clinical buildings



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AMENDMENTS	REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW	
02	10/01/20	FOR REVIEW	
03	15/01/20	FOR REVIEW	

CHK  
RP  
RP  
RP  
PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH  
SCALE  
1:1200 @A3  
25mm ON ORIGINAL





DRAWING  
GROUND PLAN  
PRINT DATE  
15/01/2020

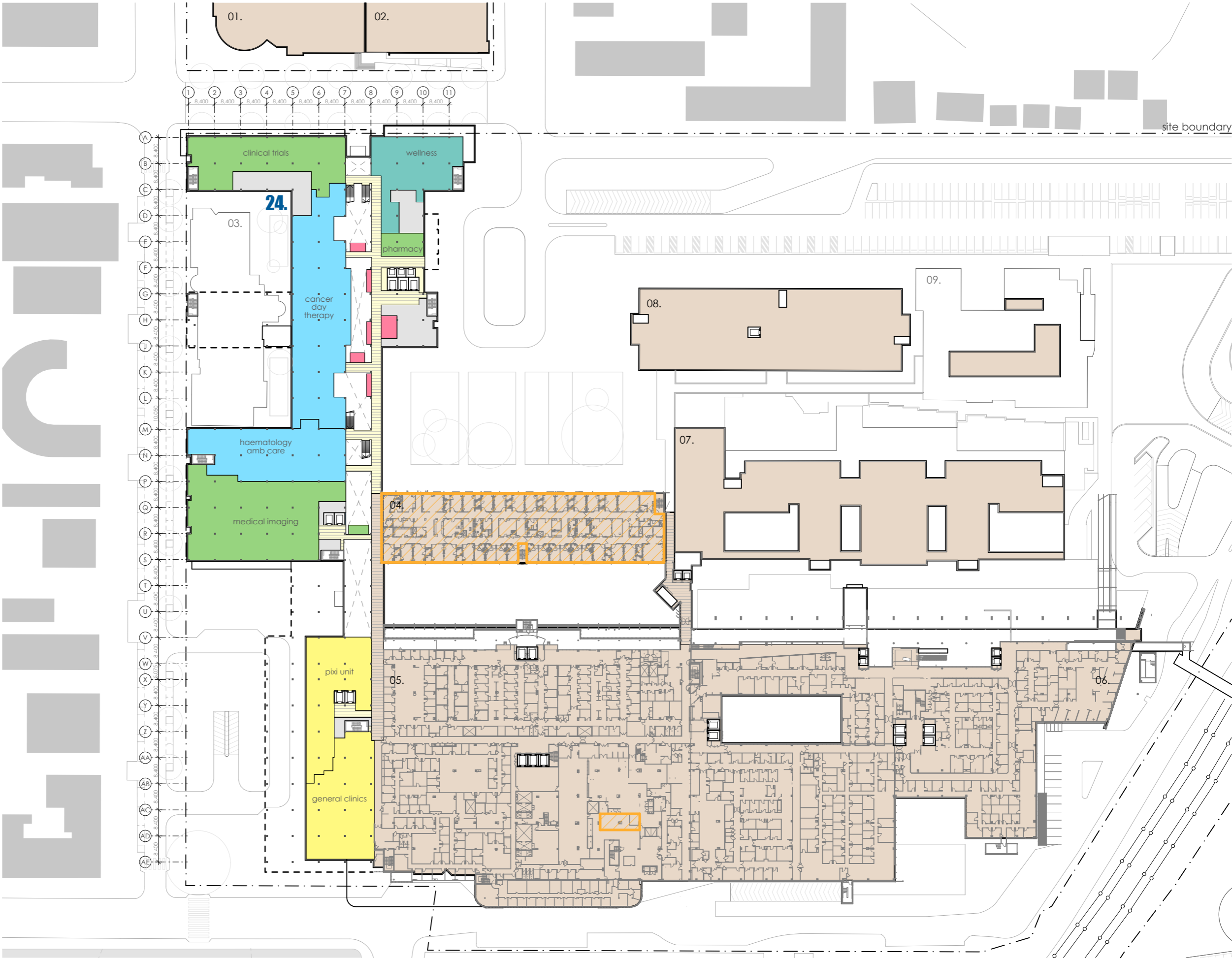
PROJECT NO.  
21807  
STATUS  
INITIAL DRAFT FOR REVIEW  
DRAWING NO.  
A-SSDA-MW-08  
ISSUE

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

LEVEL 1 RL+ 16.400

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  liverpool campus
-  existing clinical buildings



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AMENDMENTS		
REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

CHK  
RP  
RP  
RP  
PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH  
SCALE  
1:1200 @A3  
25mm ON ORIGINAL





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PRINT DATE  
15/01/2020

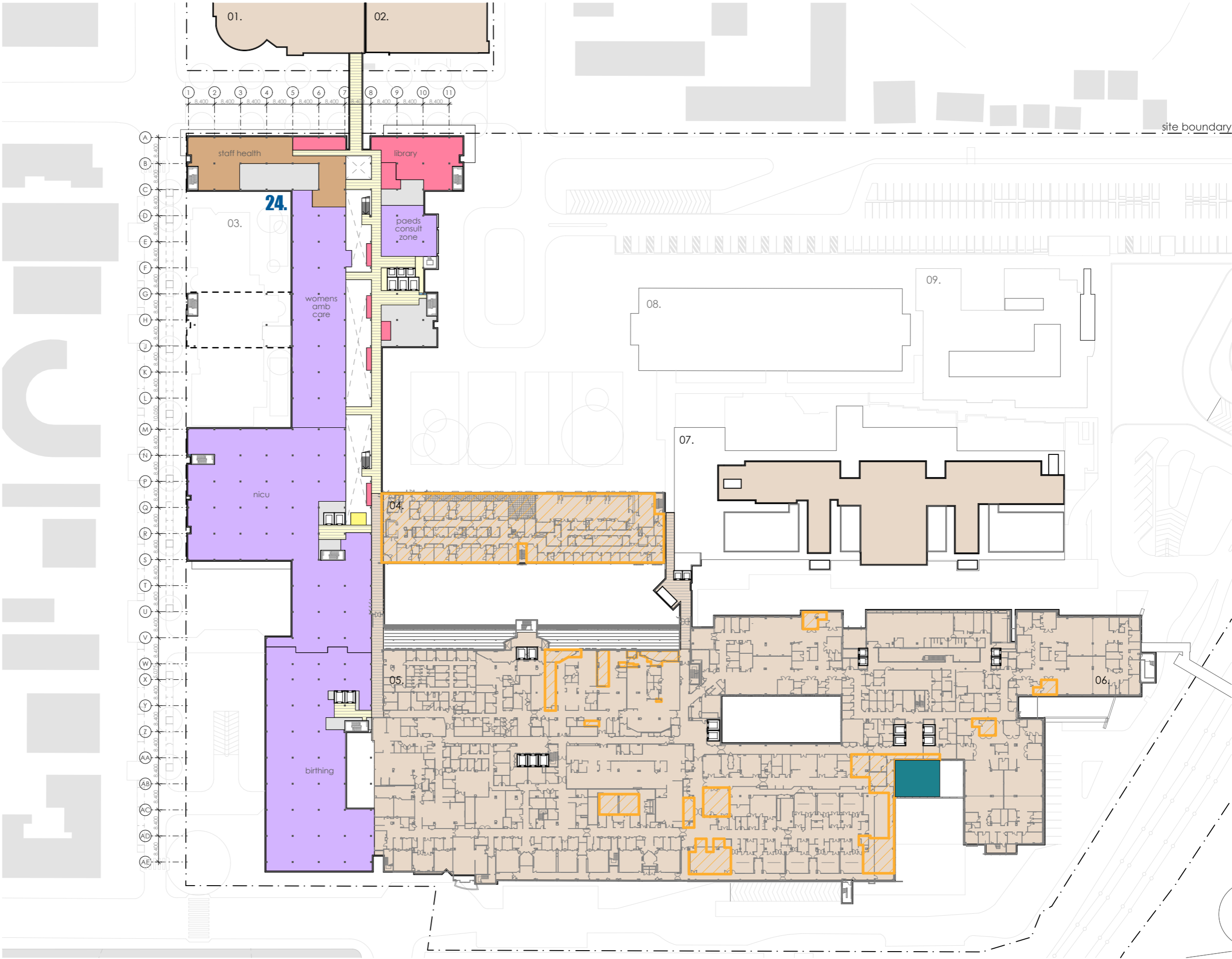
PROJECT NO.  
21807  
STATUS  
INITIAL DRAFT FOR REVIEW  
DRAWING NO.  
A-SSDA-MW-09  
ISSUE

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

LEVEL 2 RL+ 20.600

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  liverpool campus
-  existing clinical buildings



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AMENDMENTS	REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW	
02	10/01/20	FOR REVIEW	
03	15/01/20	FOR REVIEW	

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:1200 @A3  
25mm ON ORIGINAL





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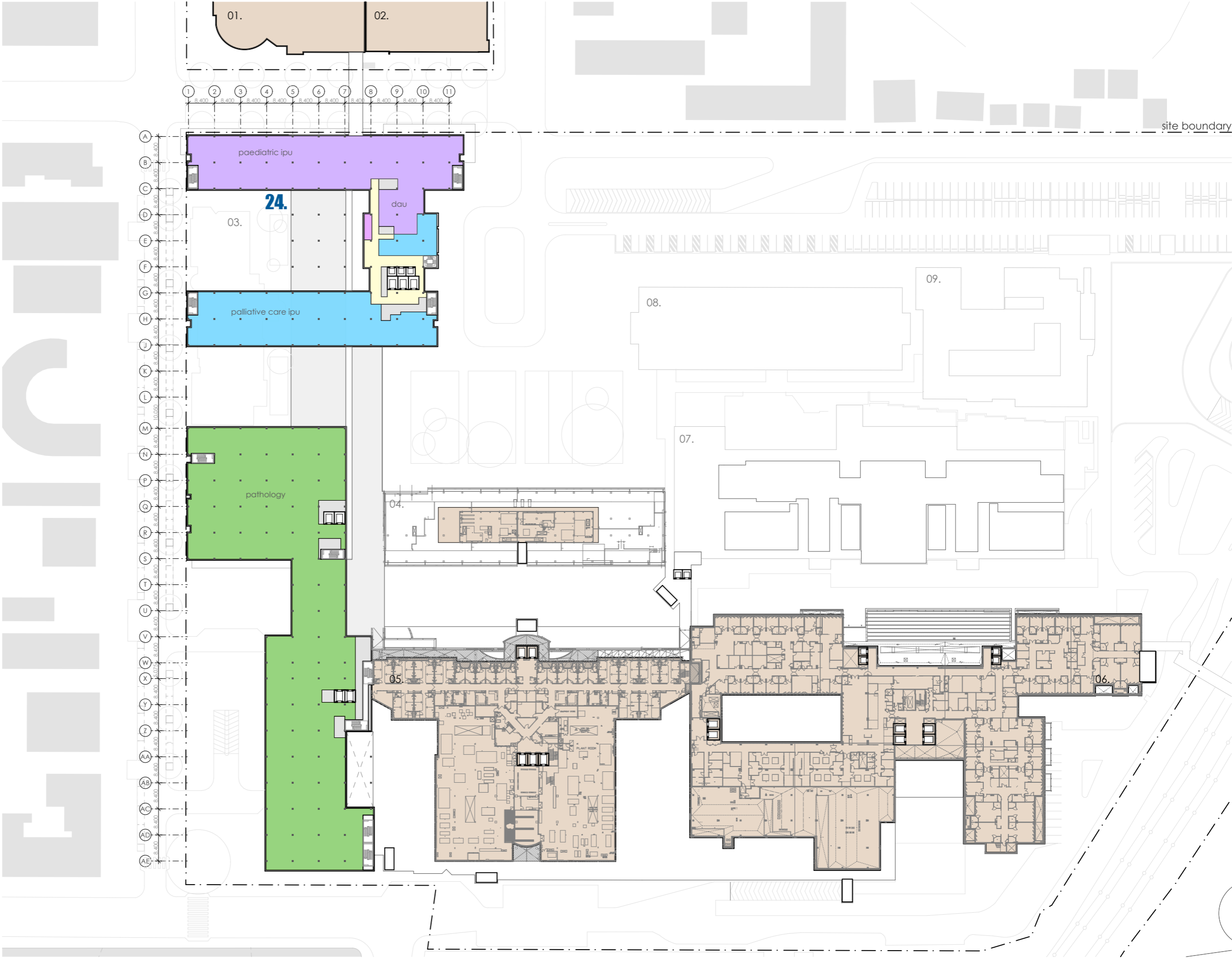
PROJECT NO.  
21807  
STATUS  
INITIAL DRAFT FOR REVIEW  
DRAWING NO.  
A-SSDA-MW-10  
ISSUE

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

LEVEL 3 RL+ 25.100

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  liverpool campus
-  existing clinical buildings



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AMENDMENTS	REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW	
02	10/01/20	FOR REVIEW	
03	15/01/20	FOR REVIEW	

CHK  
RP  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET, LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:1200 @A3  
25mm ON ORIGINAL

DRAWING  
LEVEL 3  
PRINT DATE  
15/01/2020





PROJECT NO.  
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STATUS  
INITIAL DRAFT FOR REVIEW

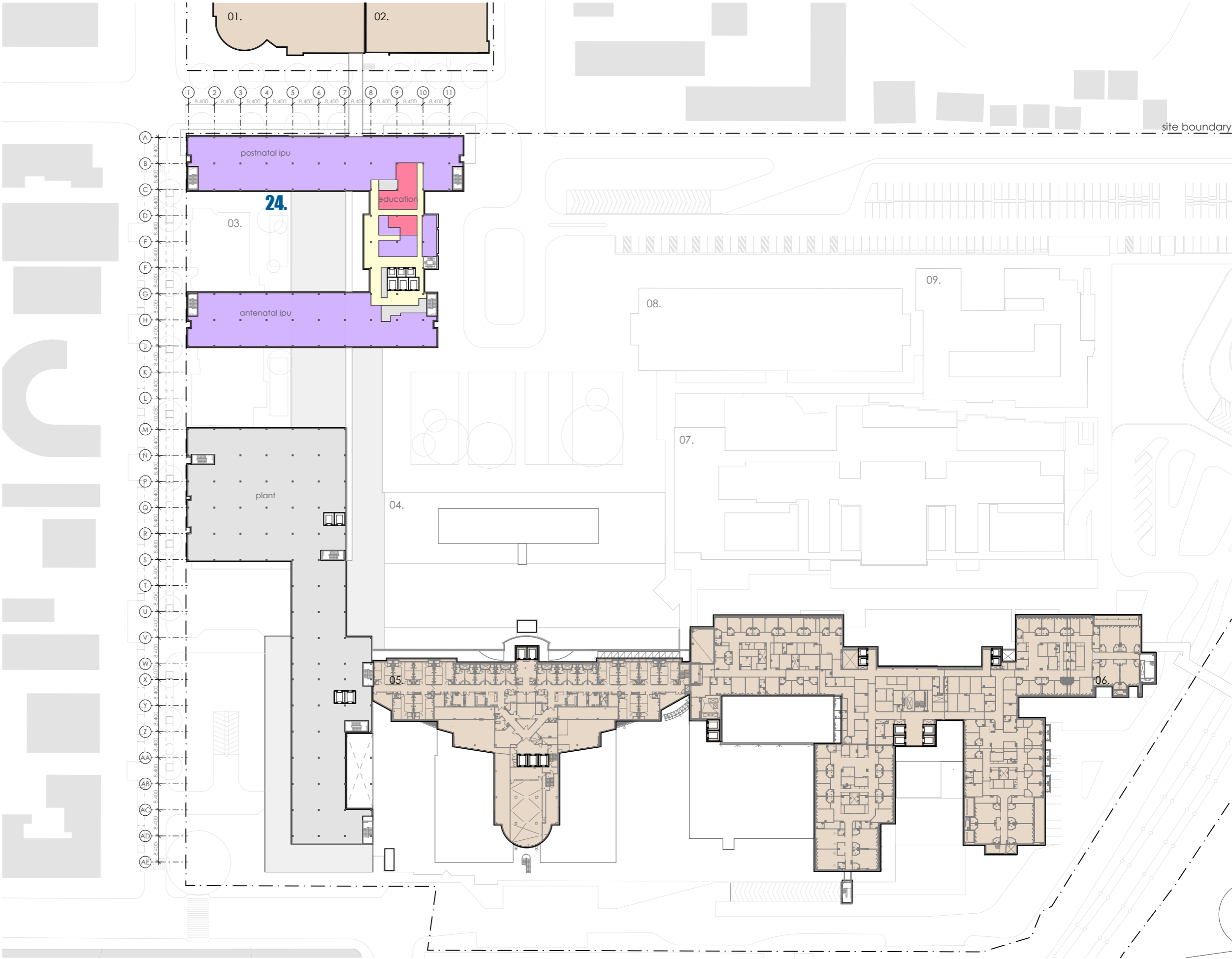
DRAWING NO.  
A-SSDA-MW-11  
ISSUE

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

LEVEL 4 RL+ 29.600

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  liverpool campus
-  existing clinical buildings





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AMENDMENTS	REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW	
02	10/01/20	FOR REVIEW	
03	15/01/20	FOR REVIEW	

CHK	PROJECT	LIVERPOOL HE	& ACADEMIC PRECINCT
RP	ELIZABETH STREE		POOL NSW
RP	CLIENT	HEALTH INFRASTRUCTURE	
RP		14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060	

PROJECT NORTH	SCALE
	1:1200 @A3
	
25mm ON ORIGINAL	





DRAWING
LEVEL 4
PRINT DATE
15/01/2020

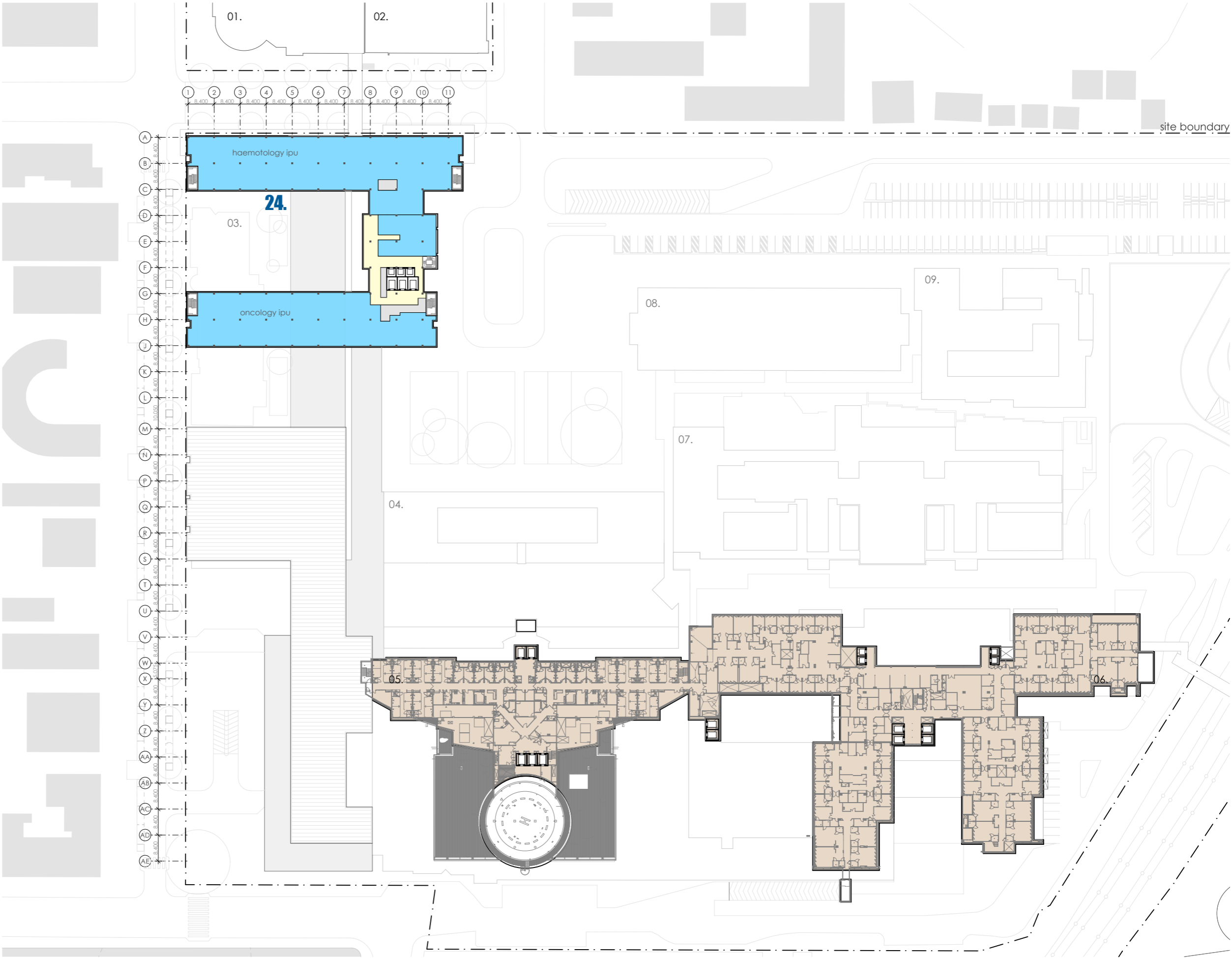
PROJECT NO.	DRAWING NO.	ISSUE
21807	A-SSDA-MW-12	
STATUS	INITIAL DRAFT FOR REVIEW	

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

LEVEL 5 RL+ 34.100

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  liverpool campus
-  existing clinical buildings



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AMENDMENTS	REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW	
02	10/01/20	FOR REVIEW	
03	15/01/20	FOR REVIEW	

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
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25mm ON ORIGINAL





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PRINT DATE  
15/01/2020

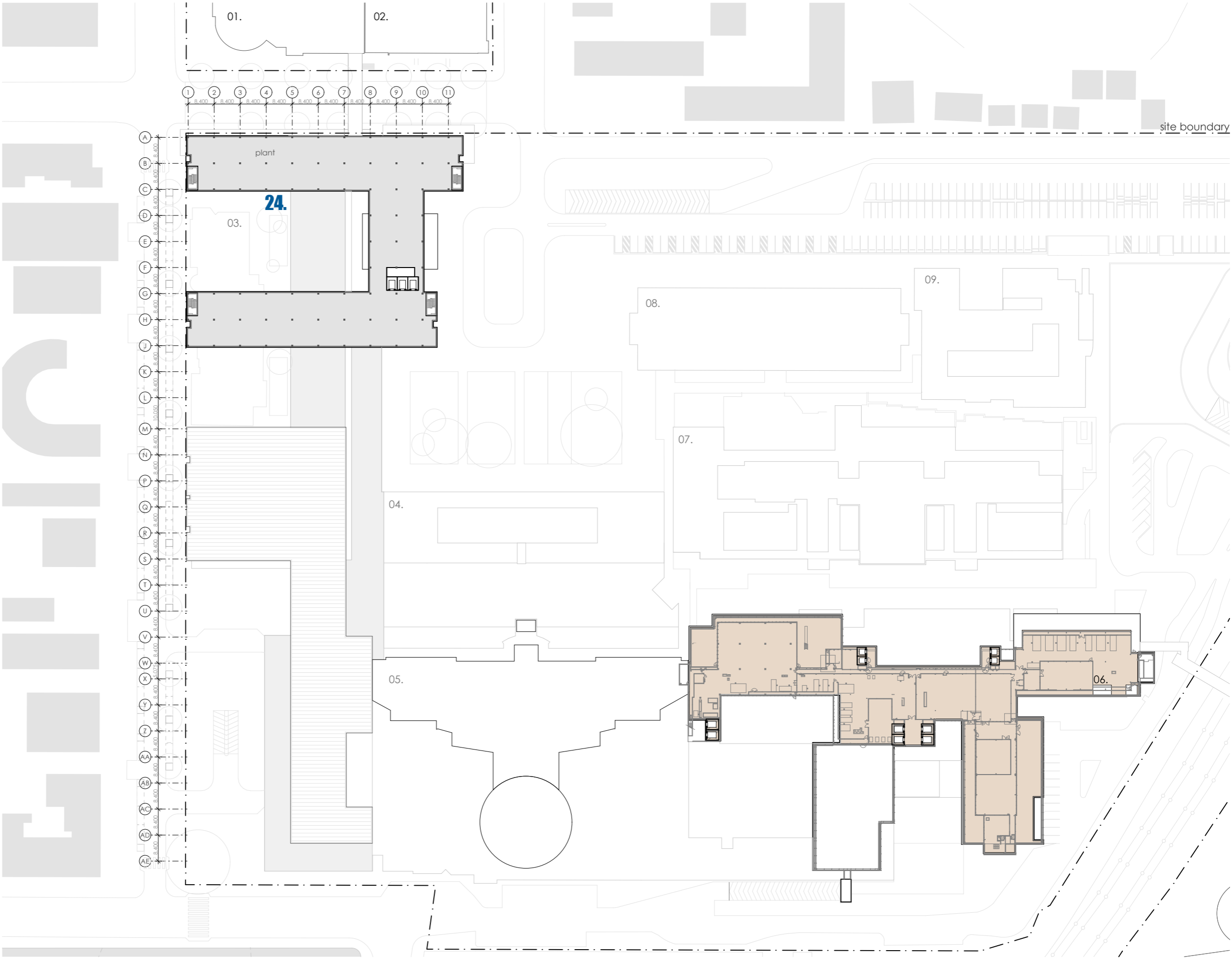
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21807  
DRAWING NO.  
A-SSDA-MW-13  
ISSUE  
STATUS  
INITIAL DRAFT FOR REVIEW

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

LEVEL 6 RL+ 38.600

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  liverpool campus
-  existing clinical buildings



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AMENDMENTS	REV.	DATE	DESCRIPTION
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03	15/01/20	FOR REVIEW	

CHK  
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PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060





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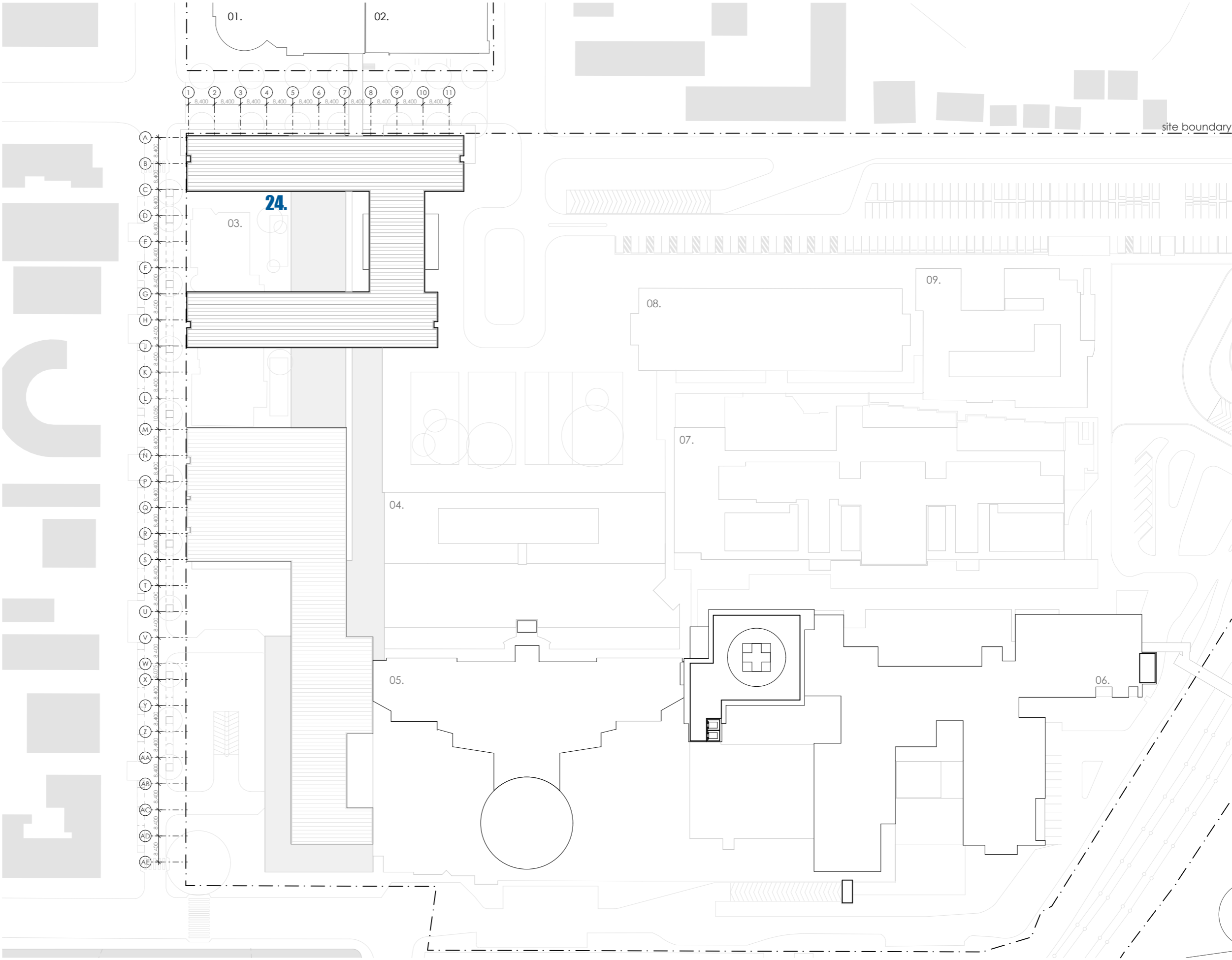
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PRINT DATE  
15/01/2020

PROJECT NO.  
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STATUS  
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DRAWING NO.  
A-SSDA-MW-14  
ISSUE

LEGEND

- 01. health services building
- 02. ingham building
- 03. oncology bunkers
- 04. caroline chisholm
- 05. old clinical services building
- 06. new clinical services bld
- 07. mental health centre
- 08. don everett building
- 09. brain injury unit
- 24. new integrated services building (ISB)

-  refurbished area of existing building, internal works only
-  new external facade/works expansion of existing building
-  liverpool campus
-  existing clinical buildings



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REV.	DATE	DESCRIPTION
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03	15/01/20	FOR REVIEW

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RP

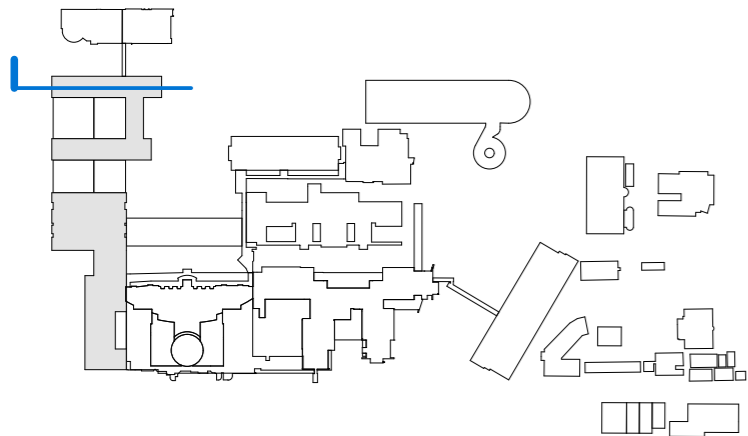
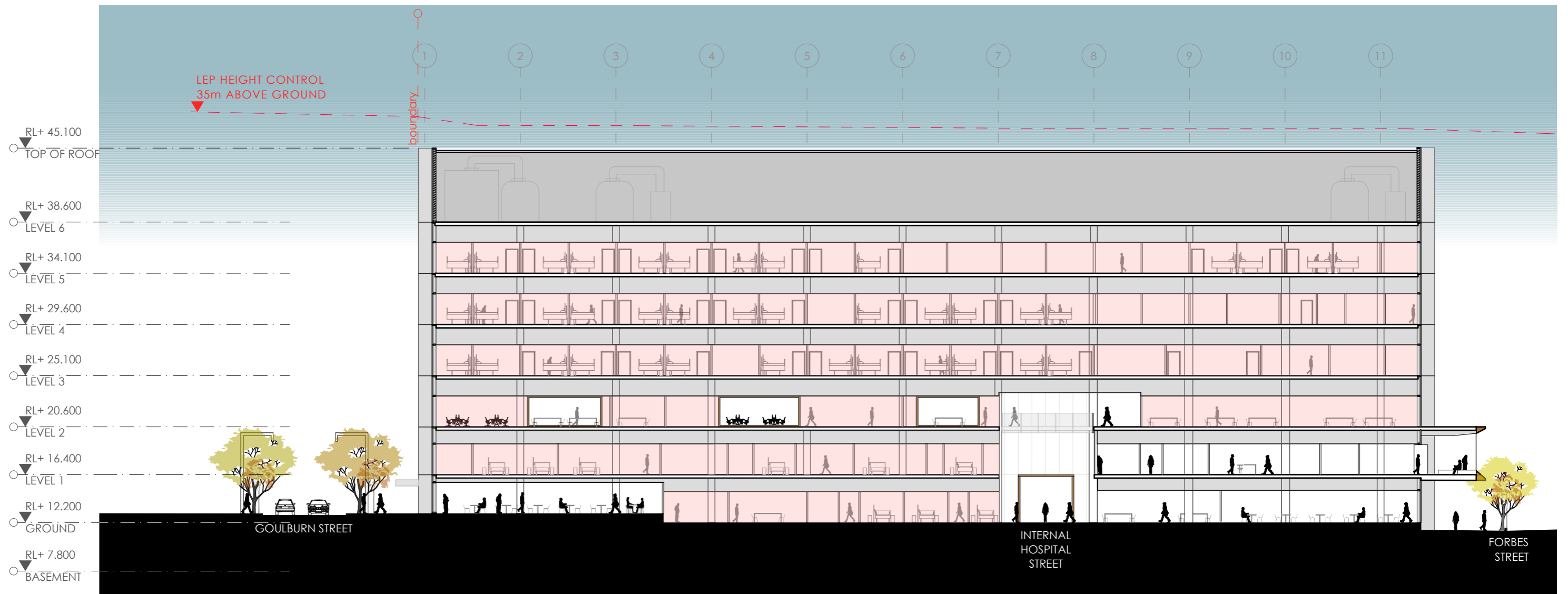
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LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:1200 @A3  
25mm ON ORIGINAL

DRAWING  
ROOF  
PRINT DATE  
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PROJECT NO.  
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INITIAL DRAFT FOR REVIEW

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01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

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FOR REVIEW

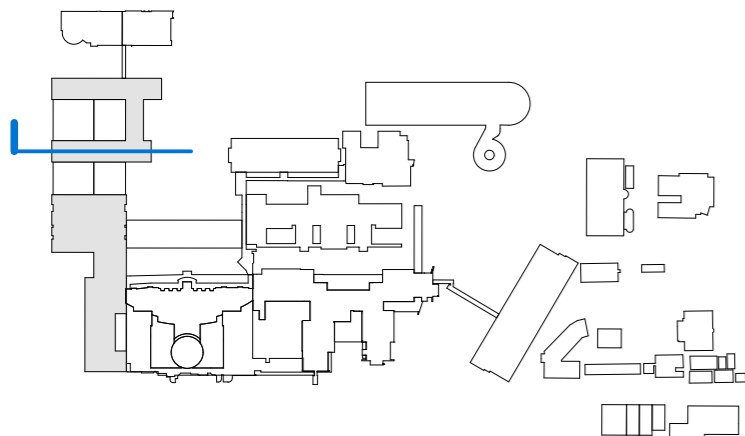
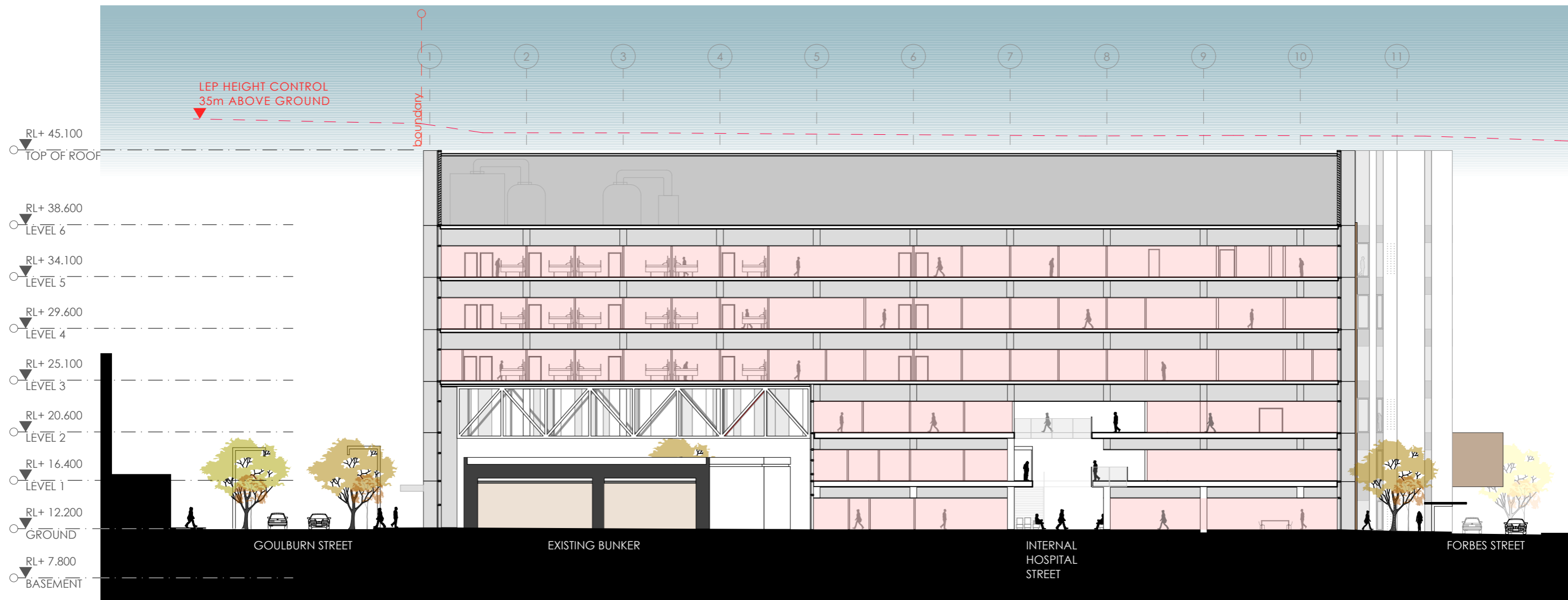
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PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:350 @A3  
25mm ON ORIGINAL

DRAWING  
SECTION THROUGH NORTH IPU  
TOWER  
PRINT DATE  
15/01/2020

PROJECT NO.  
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INITIAL DRAFT FOR REVIEW  
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REV.	DATE	DESCRIPTION
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02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

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FOR REVIEW

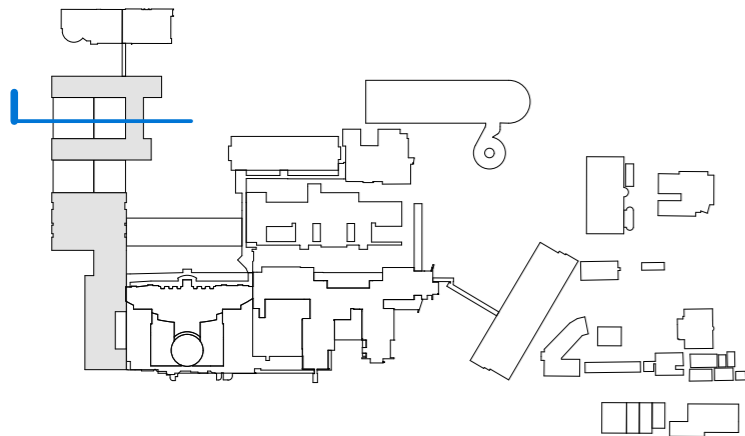
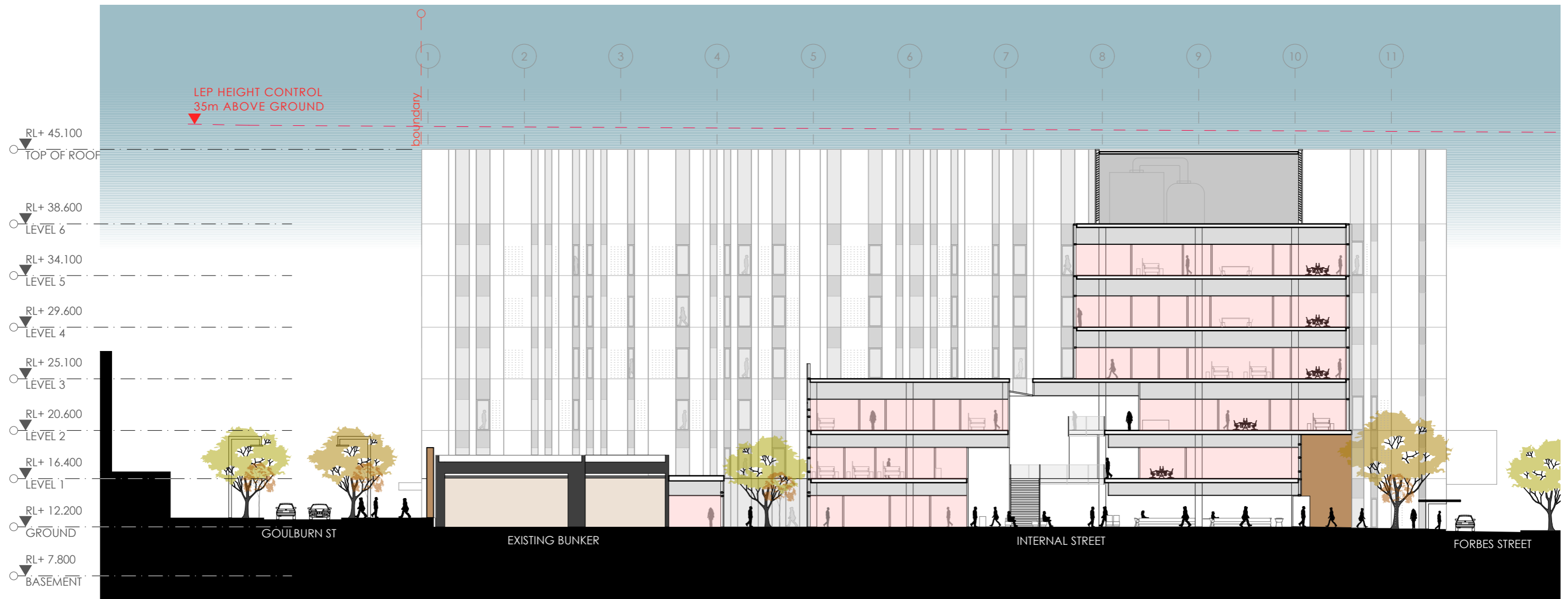
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PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:350 @A3  
25mm ON ORIGINAL

DRAWING  
SECTION THROUGH SOUTH IPU  
TOWER  
PRINT DATE  
15/01/2020

PROJECT NO.  
21807  
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INITIAL DRAFT FOR REVIEW  
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REV.	DATE	DESCRIPTION
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02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

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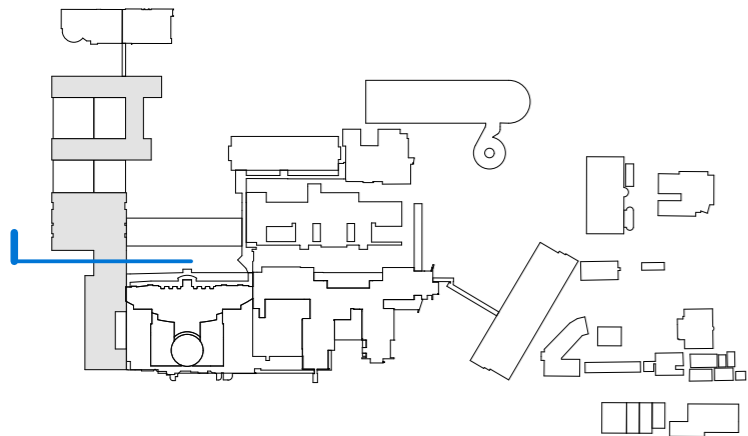
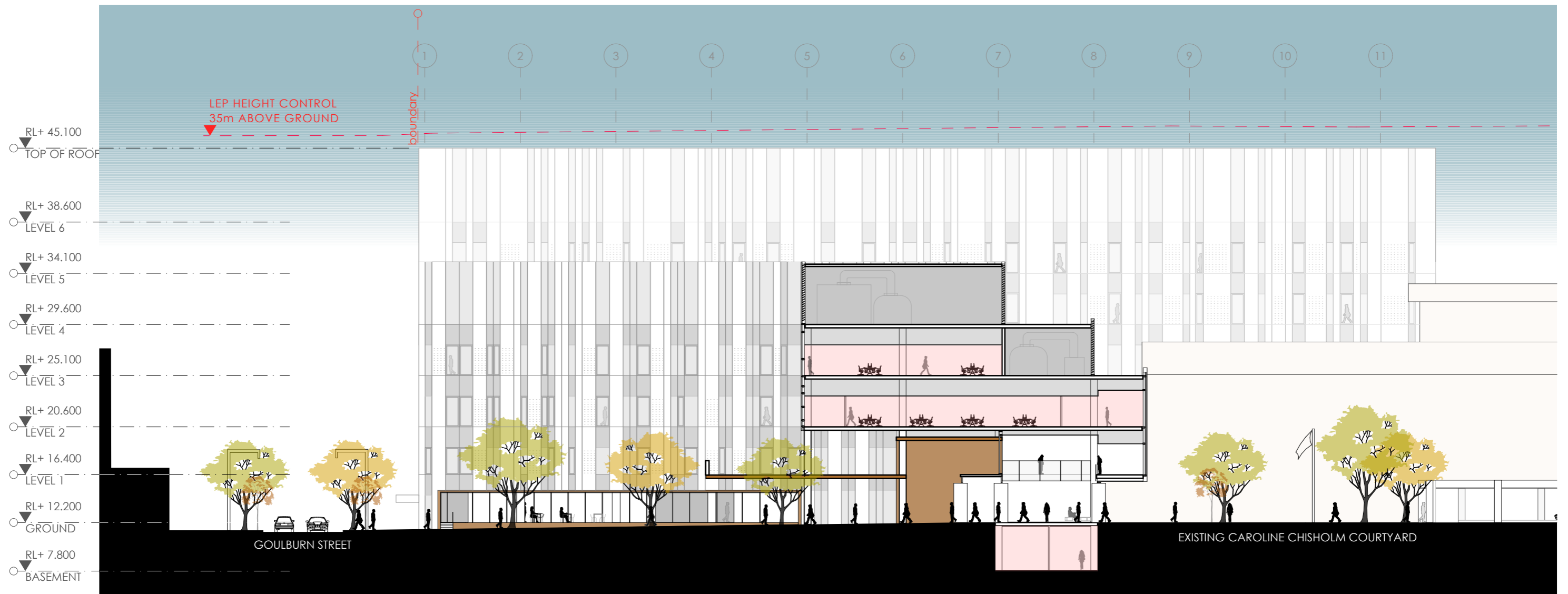
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RP  
RP  
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PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:350 @A3  
25mm ON ORIGINAL

DRAWING  
SECTION THROUGH EXISTING  
BUNKER  
PRINT DATE  
15/01/2020

PROJECT NO.  
21807  
DRAWING NO.  
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ISSUE  
INITIAL DRAFT FOR REVIEW



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REV.	DATE	DESCRIPTION
01	12/12/19	FOR REVIEW
02	10/01/20	FOR REVIEW
03	15/01/20	FOR REVIEW

DESCRIPTION  
FOR REVIEW  
FOR REVIEW  
FOR REVIEW

CHK  
RP  
RP  
RP

PROJECT  
LIVERPOOL HEALTH & ACADEMIC PRECINCT  
ELIZABETH STREET LIVERPOOL NSW  
CLIENT  
HEALTH INFRASTRUCTURE  
14/77 PACIFIC HWY, NORTH SYDNEY NSW 2060

PROJECT NORTH SCALE  
1:350 @A3  
25mm ON ORIGINAL

DRAWING  
SECTIONS THROUGH MAIN ENTRY  
PRINT DATE  
15/01/2020

PROJECT NO.  
21807  
DRAWING NO.  
A-SSDA-MW-19  
ISSUE  
INITIAL DRAFT FOR REVIEW



## **Appendix C: SafeWork NSW Records**



**SafeWork NSW**

Locked Bag 2906, Lisarow NSW 2252

Customer Experience 13 10 50

ABN 81 913 830 179 | [www.safework.nsw.gov.au](http://www.safework.nsw.gov.au)

Our Ref: D19/147320

21 June 2019

Environmental Investigation Services  
Mr Mitch Delaney  
PO Box 976  
NORTH RYDE NSW 1670

Mr Delaney

**RE SITE: Cnr of Goulburn and Elizabeth St, Liverpool NSW 2170**

I refer to your site search request received by SafeWork NSW on 14 June 2019 requesting information on Storage of Hazardous Chemicals for the above site.

Enclosed are copies of the documents that SafeWork NSW holds on record number 35/014356 relating to the storage of Hazardous Chemicals at the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email [licensing@safework.nsw.gov.au](mailto:licensing@safework.nsw.gov.au)

Yours sincerely

A handwritten signature in dark ink, appearing to read 'G. D. M. S.', written in a cursive style.

Customer Service Officer  
Customer Experience - Operations  
SafeWork NSW

## CONTACT FOR NOTIFICATION INQUIRIES

Title: Mr / Miss / Ms / Mrs / Other (please specify) MR Family name GIBBS  
Given name LESLIE Other names \_\_\_\_\_  
Business phone 0439 648197 Business fax number \_\_\_\_\_  
Business email address Leslie.Gibbs@ssw4hs.nsw.gov.au

Previous Licence Number or Acknowledgement Number (if known)

35/

Previous Occupier (if known)

Site on which dangerous goods are to be kept

Number

Street

LIVERPOOL HOSPITAL ELIZABETH ST

Suburb/Town/Locality

LIVERPOOL

Postcode

2170

Nearest cross Street

COLLINS / MORRIS / ELIZABETH

Lot and DP if no street number

Is the site staffed? If yes state number of employees

Site staffing: Hours per day 24 Days per week 7

Site Emergency Contact

Phone number

Name

( )

RICHARD DOUGLAS

Nature of site (eg petrol station, warehouse etc)

HOSPITAL

Nature of primary business activity

HEALTH CARE

ABN Number (if any)

46 738 965 845

Website details (if any)

What is the ANSZIC code most applicable to your business? (see guide for list of codes and further information)

Code

Description

8401

HOSPITAL

Attach a site sketch(s) of the premises. Refer to the Guide GDG01 for information on the requirements for the site sketch.

Attach a legible photocopy page from a local Street Directory or other map showing the locality of the premises. Mark the location of the premises with an X.

## BULK OXYGEN – EASTERN CAMPUS, MAIN TANKS

*Liquefied Gas – Non flammable, Non-toxic – Oxidizing Sub risk*

Depot Number	Type of Depot	Class	Max Capacity, Lit, WC
1	Tank	2.2/5.1	26.4 kLit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1073	Oxygen, Refrigerated Liquid	2.2/5.1	-	Oxygen	2[S]	26.4	kLit

*Liquefied Gas – Non flammable, Non-toxic – Oxidizing Sub risk*

Depot Number	Type of Depot	Class	Max Capacity, Lit, WC
2	Tank	2.2/5.1	2.93 kLit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1073	Oxygen, Refrigerated Liquid	2.2/5.1	-	Oxygen	2[S]	2.93	kLit

## BULK OXYGEN – WESTERN CAMPUS, BACK-UP TANK

*Liquefied Gas – Non flammable, Non-toxic – Oxidizing Sub risk*

Depot Number	Type of Depot	Class	Max Capacity, Lit, WC
3	Tank	2.2/5.1	2.93 kLit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1073	Oxygen, Refrigerated Liquid	2.2/5.1	-	Oxygen	2[S]	2.93	kLit



## WORKSHOP

### *WORKSHOP GASSES – Cylinder Store*

Depot Number	Type of Depot	Class	Max Capacity, Lit, WC
4	Cylinder Store	2	1000Lit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1001	Acetylene (Dissolved)	2.1		Acetylene	2[S]E	450	Lit
1978	Liquefied Petroleum Gas	2.1		LPG	2[Y]E	100	Lit
1072	Oxygen, Compressed	2.2/ 5.1	-	Oxygen	2[S]	250	Lit
3159	Compressed Refrigerant Tetrafluoroethane	2.2		Refrigerant gas R 134A	2RE	200	Lit



*FITTERS & PLUMBERS SHOP - Flammable Liquids Cabinet*

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
5	Cabinet	3/2.1	100Lit

LPD  
J 22/2/2012

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
1263	Paint related material	3	II	Paint and solvents	3[Y]E	60	Lit
1950	Aerosols	2.1		Spray paint		10	Lit

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
6	Cabinet	3/2.1	160Lit

LPD  
J 22/2/2012

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
1263	Paint related material	3	II	Paint and solvents	3[Y]E	100	Lit
1950	Aerosols	2.1		Spray paint		10	Lit



*SIGN WRITERS - Flammable Liquids Cabinet*

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
7	Cabinet	3/2.1	60Lit

490  
 firehose.

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
1263	Paint related material	3	II	Paint and solvents	3[Y]E	50	Lit
1950	Aerosols	2.1		Spray paint		10	Lit



## CENTRAL ENERGY

*Combustible Liquid – Underground tank- Diesel is not a dangerous goods under ADG8*

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
8	Tank	C1	55kLit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
-	Diesel Fuel Combustible Liquid	C1	-	Diesel Fuel	-	55	kLit



## ISD

*Combustible Liquid – Underground tank- Diesel is not a dangerous goods under ADG8*

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
9	Tank	C1	1.3kLit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
-	Diesel Fuel Combustible Liquid	C1	-	Diesel Fuel	-	1.3	kLit



## CLINICAL BUILDING

*Combustible Liquid – Internal tank- Diesel is not a dangerous goods under ADG8*

---

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
10	Tank	C1	10kLit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
-	Diesel Fuel Combustible Liquid	C1	-	Diesel Fuel	-	10	kLit

*Combustible Liquid – Internal tank- Diesel is not a dangerous goods under ADG8*

---

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
11	Tank	C1	15kLit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
-	Diesel Fuel Combustible Liquid	C1	-	Diesel Fuel	-	15	kLit

**PATHOLOGY (SWAP)***Cylinder Store – Compresses Medical Gasses*

Depot Number	Type of Depot	Class	Max Capacity, Lit, WC
12	Cylinder Store	2	4000 Lit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1956	Hydrogen, Compressed	2.1	-	Hydrogen	2[S]E	1000	Lit
1013	Carbon Dioxide, Compressed gas	2.2	-	Carbon Dioxide	2RE	1000	Lit
1066	Nitrogen, Compressed	2.2	-	Nitrogen	2[T]	1000	Lit
1046	Helium, Compressed	2.2	-	Helium	2[T]	250	Lit
1014	Air, Compressed	2.2/ 5.1	-	Instrument Air	2[T]	250	Lit



*External Attached Package Store – Flammable Liquids*

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
13	Package Store	3	3000 Lit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1170	Ethyl Alcohol, Solution	3	II	Ethanol, 100%	3[Y]E	2000	Lit
1090	Acetone	3	II	Acetone	2[Y]E	100	Lit
1307	Xylene	3	II	Xylene	3[Y]E	100	Lit



## CLINICAL BUILDING

### *Cylinder Store – Compresses Medical Gasses*

Depot Number	Type of Depot	Class	Max Capacity, Lit, WC
14	Cylinder Store	2.2	1500 Lit

LR  
 22/2/2012

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1072	Oxygen, Compressed	2.2/ 5.1	-	Medical Oxygen	2[S]	400	Lit
1070	Nitrous Oxide, Gas	2.2	-	Nitrous Oxide	2P	500	Lit
1002	Air, Compressed	2.2	-	Medical Air	2[T]	300	Lit



### *Cylinder Store – Compresses Medical Gasses- Back-up manifold*

Depot Number	Type of Depot	Class	Max Capacity, Lit, WC
15	Cylinder Store	2.2	11 000 Lit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, WC
1072	Oxygen, Compressed	2.2/ 5.1	-	Oxygen	2[S]	5000	Lit
1070	Nitrous Oxide, Gas	2.2	-	Nitrous Oxide	2P	3000	Lit
1002	Air, Compressed	2.2	-	Medical Air	2[T]	3000	Lit

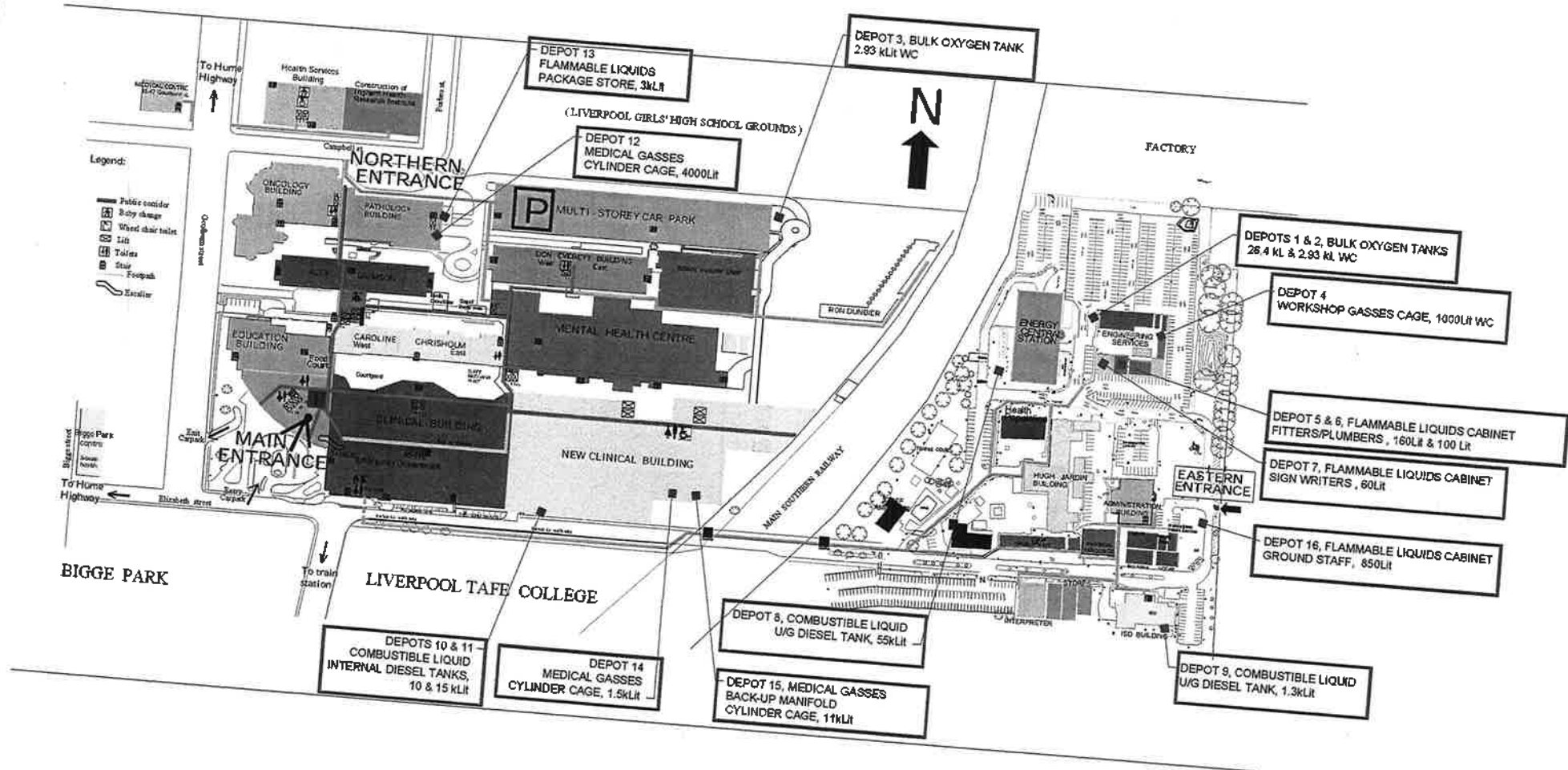
## GROUND STAFF

### *External Package Store – Flammable Liquids*

Depot Number	Type of Depot	Class	Max Capacity, Lit, Kg, m3
16	Package Store	3	850 Lit

UN Number	Correct Shipping Name	Class	PG I,II,III	Product or Common Name	HazChem Symbol	Typical Qty	Unit, Lit, kg, m3
1203	Motor Spirit	3	II	Petrol	3[Y]E	200	Lit
	Diesel	C1	-	Diesel		200	Lit





NO.	REVISION	DATE	BY	CHKD BY
1	ISSUED FOR TENDER	22.11.22		
2	REVISED	26.11.22		
3	REVISED	27.11.22		

Drawn by  
ADCP  
Design & Drafting Services  
2000-2001  
PO BOX 60111, NEW 2022  
PH 02 9550 2000 FAX 02 9550 4104  
info@adcp.com.au www.adcp.com.au

Project/Client  
LIVERPOOL HOSPITAL  
GOULBURN ST  
LIVERPOOL

Project  
LIVERPOOL HOSPITAL  
DANGEROUS GOODS LAYOUT

THE WORKCOVER NOTIFICATION  
PLAN

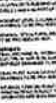
DATE: 26.11.22  
DRAWN: ADP  
CHECKED: ADP  
APPROVED: ADP  
PROJECT NO: 22001  
PAGE: 1

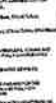
DANGEROUS GOODS ON PREMISES



**PROJECT NORTH**

North is a registered company in the United Kingdom. It is a leading provider of project management services. North is a leading provider of project management services. North is a leading provider of project management services.





**Services**

North is a leading provider of project management services. North is a leading provider of project management services. North is a leading provider of project management services.

**Locations**

North is a leading provider of project management services. North is a leading provider of project management services. North is a leading provider of project management services.

**Projects**

North is a leading provider of project management services. North is a leading provider of project management services. North is a leading provider of project management services.

**Team**

North is a leading provider of project management services. North is a leading provider of project management services. North is a leading provider of project management services.

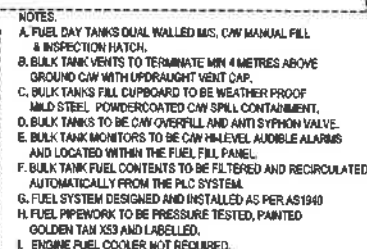
**Client Testimonials**











North is a leading provider of project management services. North is a leading provider of project management services. North is a leading provider of project management services.

**Contact Us**

North is a leading provider of project management services. North is a leading provider of project management services. North is a leading provider of project management services.





- LEGEND**
-  BALL VALVE
  -  STRAINER
  -  BALL VALVE NORMALLY CLOSED
  -  FUEL FLOW SWITCH
  -  DAHL FUEL FILTER
  -  POSITIVE DISPLACEMENT FUEL PUMP W/ RELIEF VALVE
  -  PRESSURE GAUGE
  -  FUEL SHUT OFF VALVE W/ FUSIBLE LINK
  -  DAY TANK CONTENTS GAUGE
  -  ONE WAY CHECK VALVE

[illegible]

40	50.11.20	For Closing year
41	4.12.20	By Special
42	Q1	for 2020-21

**RICE DAUBNEY**  
ARCHITECTS C/BA PRA INC  
IMPLEMENTS ARCHITECTURE

11400 W. 4TH AVE STE 1000 DENVER CO 80202  
T 303 733 0171 F 303 733 0170  
www.ricedaubney.com

For more information, please contact us at 303 733 0171 or visit our website at www.ricedaubney.com



**SYDNEY SOUTH**  
SOUTH AFRICAN  
REPUBLIC


 11/11/2011 11:11 AM  
 11/11/2011 11:11 AM  
 11/11/2011 11:11 AM



**Davis**  
Land Leasing

**STOWE**  
AUSTRALIA

STONE, AUSTRALIA  
10 - 12 OLIVE STREET  
SPRINGBURN NSW 2716  
PHONE 0616 2171  
FAX 0616 2590  
A.C.N. 096 226 063

Liverpool Hospital Redevelopment  
Stage 2.1  
Elizabeth Street  
Liverpool, NSW, 2170

**New CSB - Zone A**  
**Details Sheet 4**  
**Diesel Fuel Schematic**

345-482-B

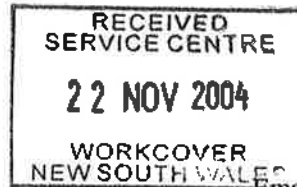
# PETROLINK PTY LTD

ABN 35 002 864 002

Accredited Dangerous Goods Consultants

Site Risk Assessment - Plan Certification - Safety Audits - Emergency Procedures

GRDA-3



PO Box 8,  
Mulgoa.  
NSW 2745

Phone:- 02) 4722 9775

Fax:- 02) 4722 9774

Email:- petrolink@pnc.com.au

Dangerous Goods Act, 1975

NSW Dangerous Goods (General) Regulation 1999

## CONTRACTORS CERTIFICATE UNDERGROUND TANKS

I hereby certify that the tank indicated below has been abandoned by the removal of all flammable liquid, filled and sealed to the requirements of the Chemical Safety Unit of the WorkCover Authority, Dangerous Goods Department.

**Company:-** Liverpool Hospital.

**Address of Premises:-** Merit Building

Elizabeth Street, Liverpool. NSW

**Licence No.** Unknown.

**Tanks Abandoned:-** 1 x 5000 litre UST

**Method Used:-** All contaminated water and fuel residue pumped out and legally disposed of.

Tank filled with cement grout.

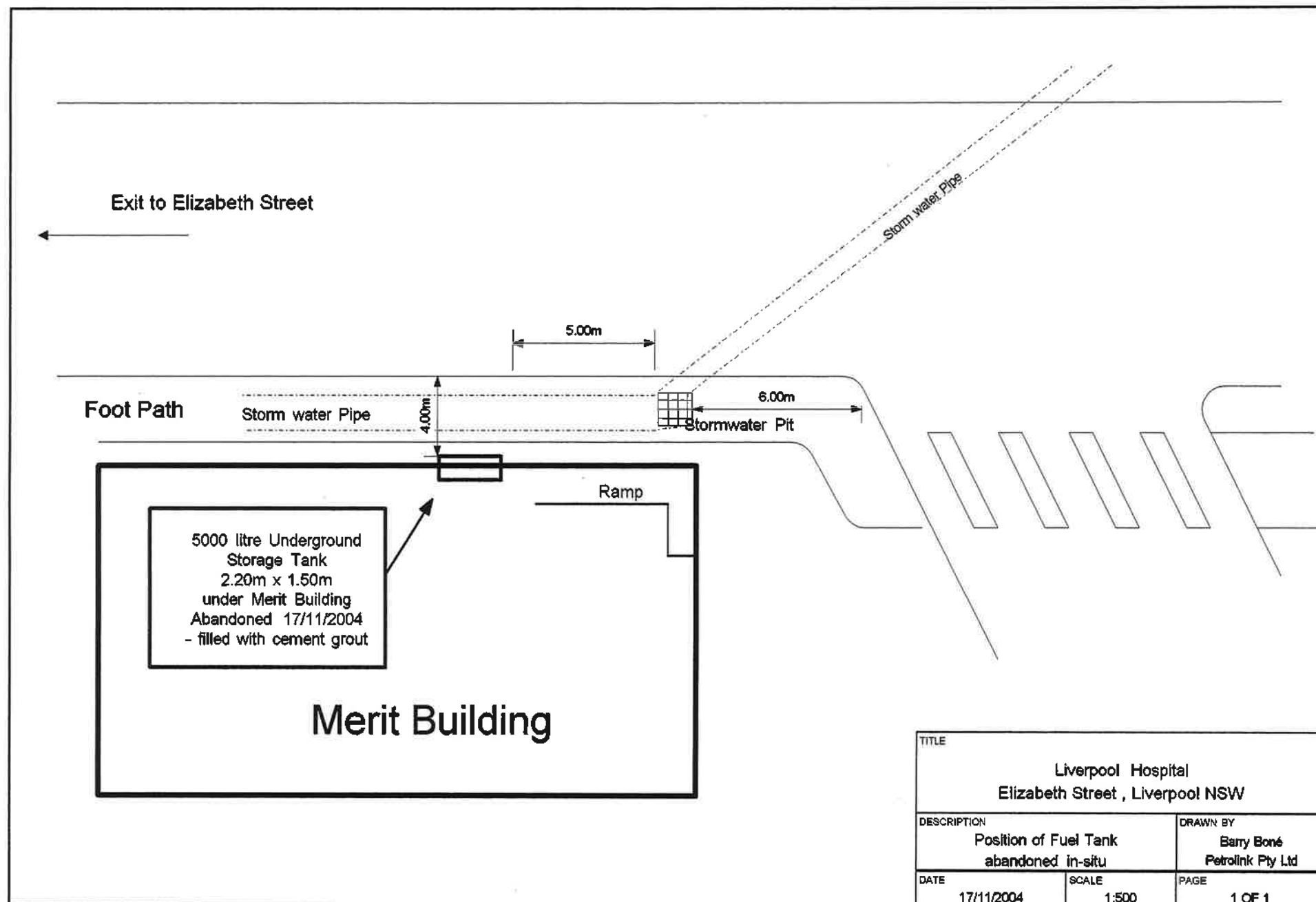
**Site Plan attached** Yes.

**Signed:-**  .....

**Date:-** 16.11.04 .....

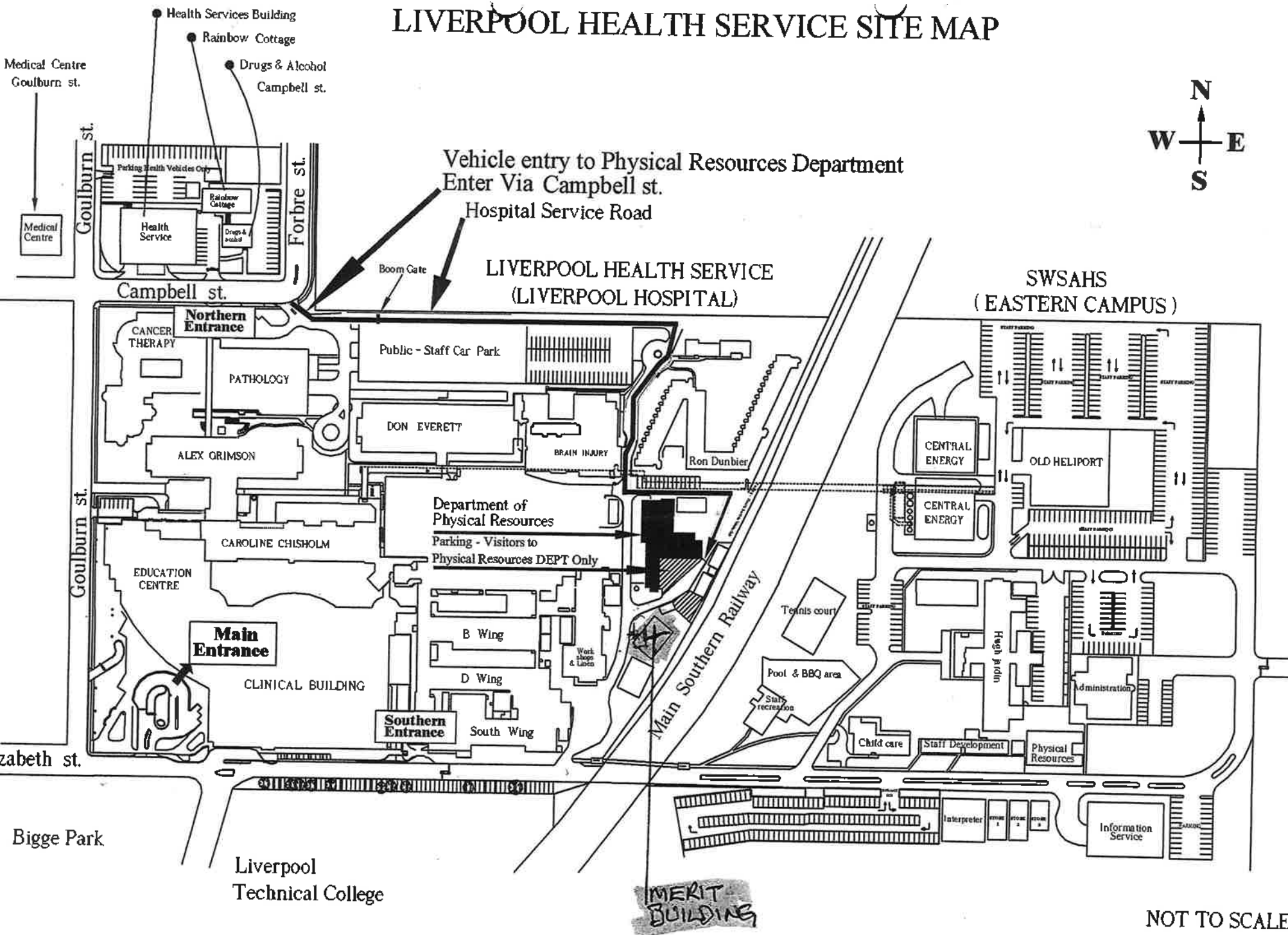
**To:-**  
Dangerous Goods Licensing  
WorkCover NSW.

35/014356



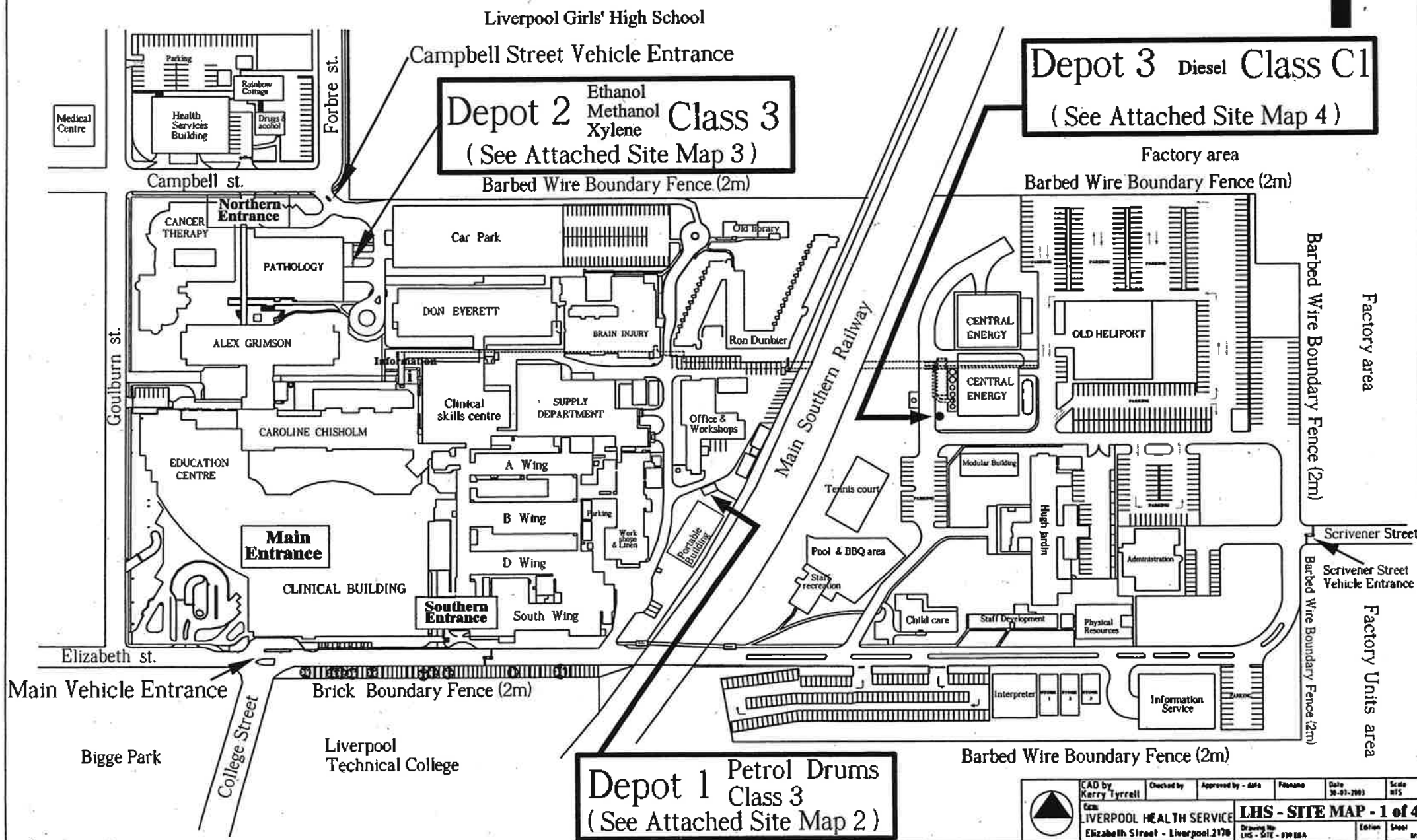
TITLE		
Liverpool Hospital Elizabeth Street , Liverpool NSW		
DESCRIPTION	DRAWN BY	
Position of Fuel Tank abandoned in-situ	Barry Boné Petrolink Pty Ltd	
DATE	SCALE	PAGE
17/11/2004	1:500	1 OF 1

# LIVERPOOL HEALTH SERVICE SITE MAP



Rev	Revision note	Date	Signature	Checked
1	Changed to CAD2000 format & frame	11-3-2001	AM	

# LIVERPOOL HOSPITAL SITE MAP



**Depot 3 Diesel Class C1**  
(See Attached Site Map 4)

**Depot 2 Ethanol Methanol Xylene Class 3**  
(See Attached Site Map 3)

**Depot 1 Petrol Drums Class 3**  
(See Attached Site Map 2)

CAD by Kerry Tyrrell	Checked by	Approved by - date	Filename	Date 10-01-2003	Scale 1:15
LIVERPOOL HEALTH SERVICE					
Elizabeth Street - Liverpool 2178					

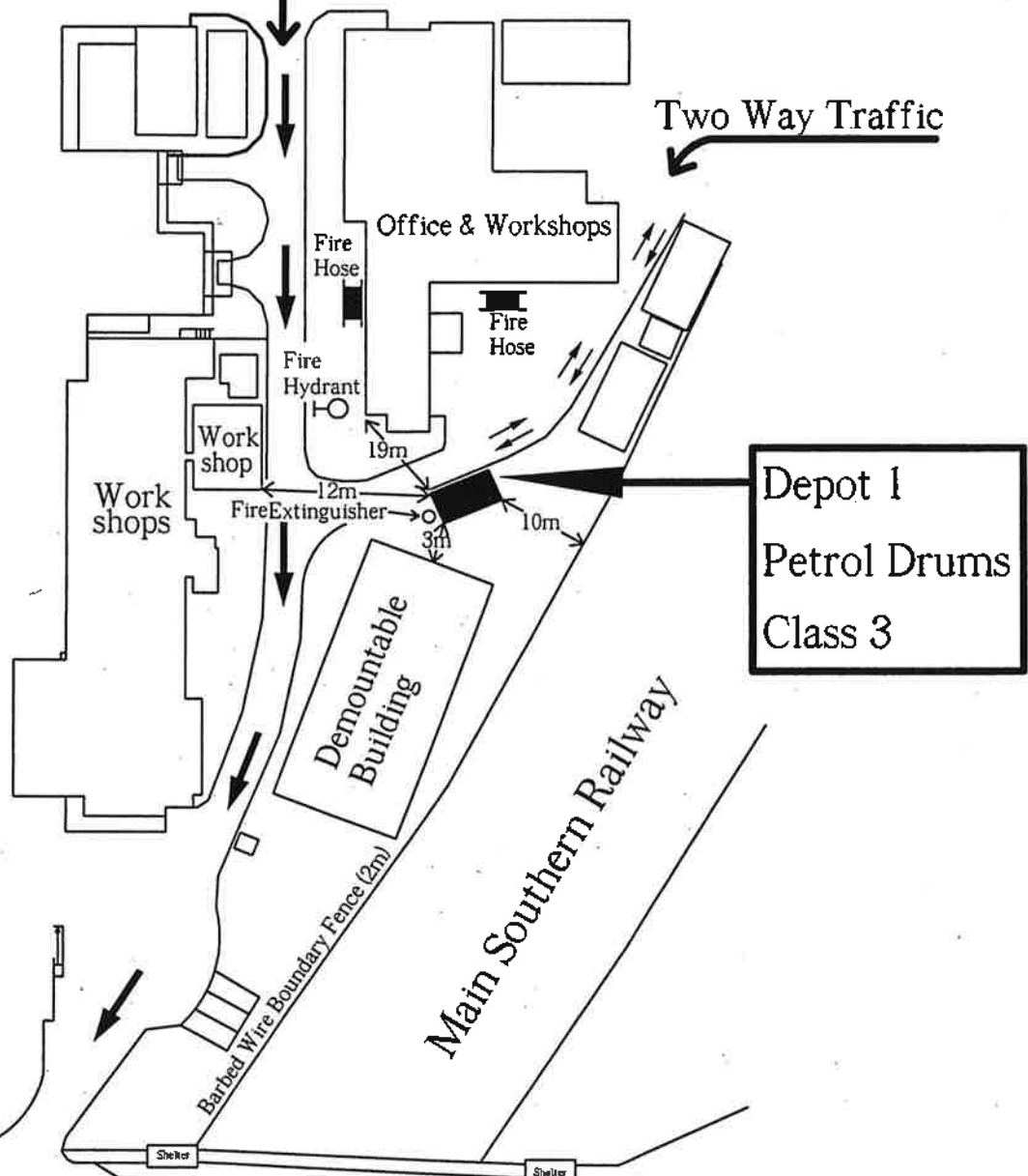
**LHS - SITE MAP - 1 of 4**  
Drawing No. LHS - SITE - 010 00A  
Edition Sheet  
1/1

# Liverpool Hospital Site Map ( Depot 1 )



Vehicle Access, Enter Via  
Campbell Street.  
One Way Traffic

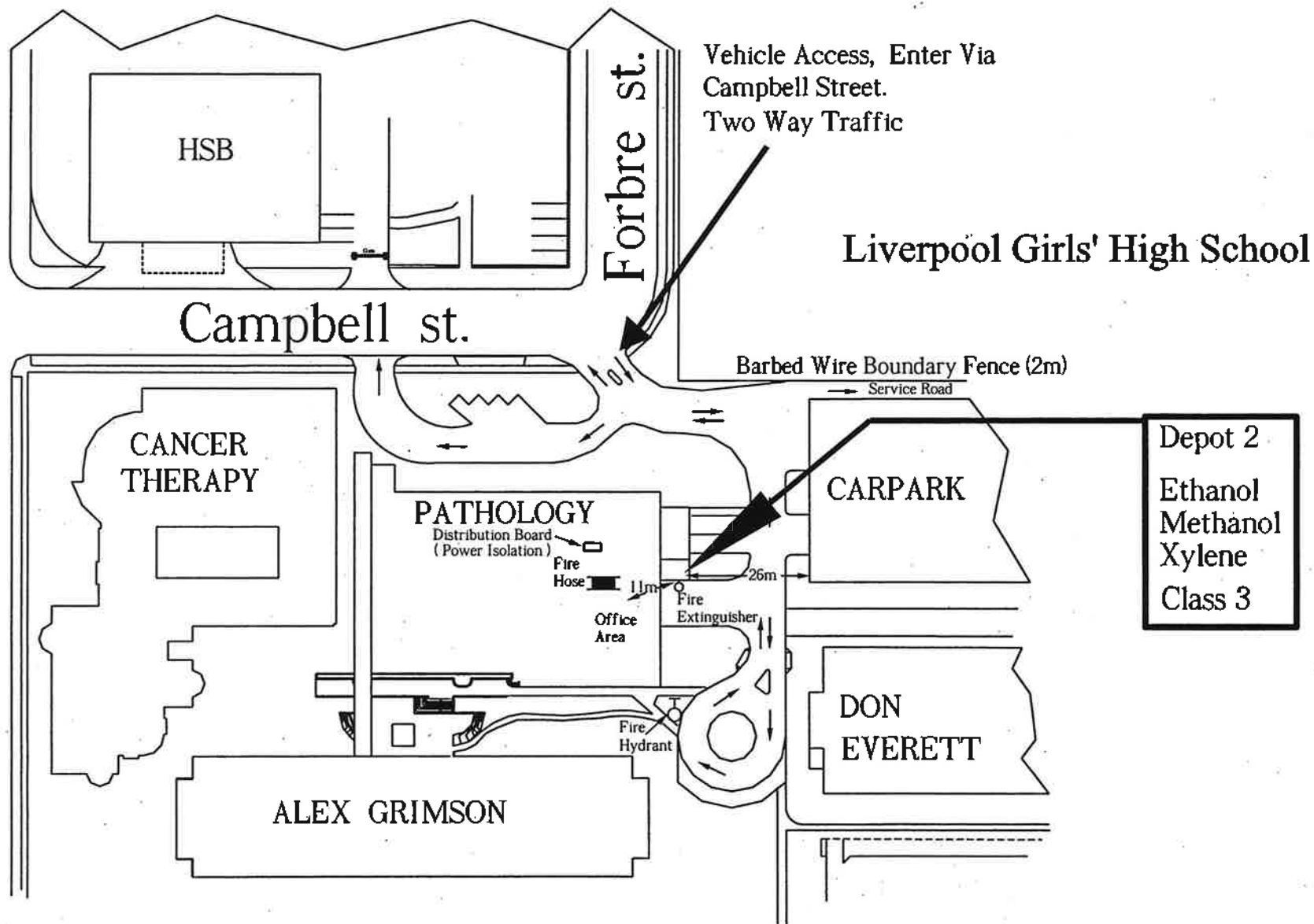
Two Way Traffic



Elizabeth st.

Site Map 2 of 4

# Liverpool Hospital Site Map ( Depot 2 )



# Liverpool Hospital Site Map ( Depot 3 )



Depot 3  
Diesel  
(Underground)  
( Tank 55,000 L )  
Class C1

CENTRAL  
ENERGY

Fire  
Hose  
Fire  
Extinguisher

Power  
Isolation

( Inside Restricted 11kv Substation )

Fire  
Hydrant  
17m  
35m

Office Building

Hugh  
jardin

Tennis court

Pool & BBQ area

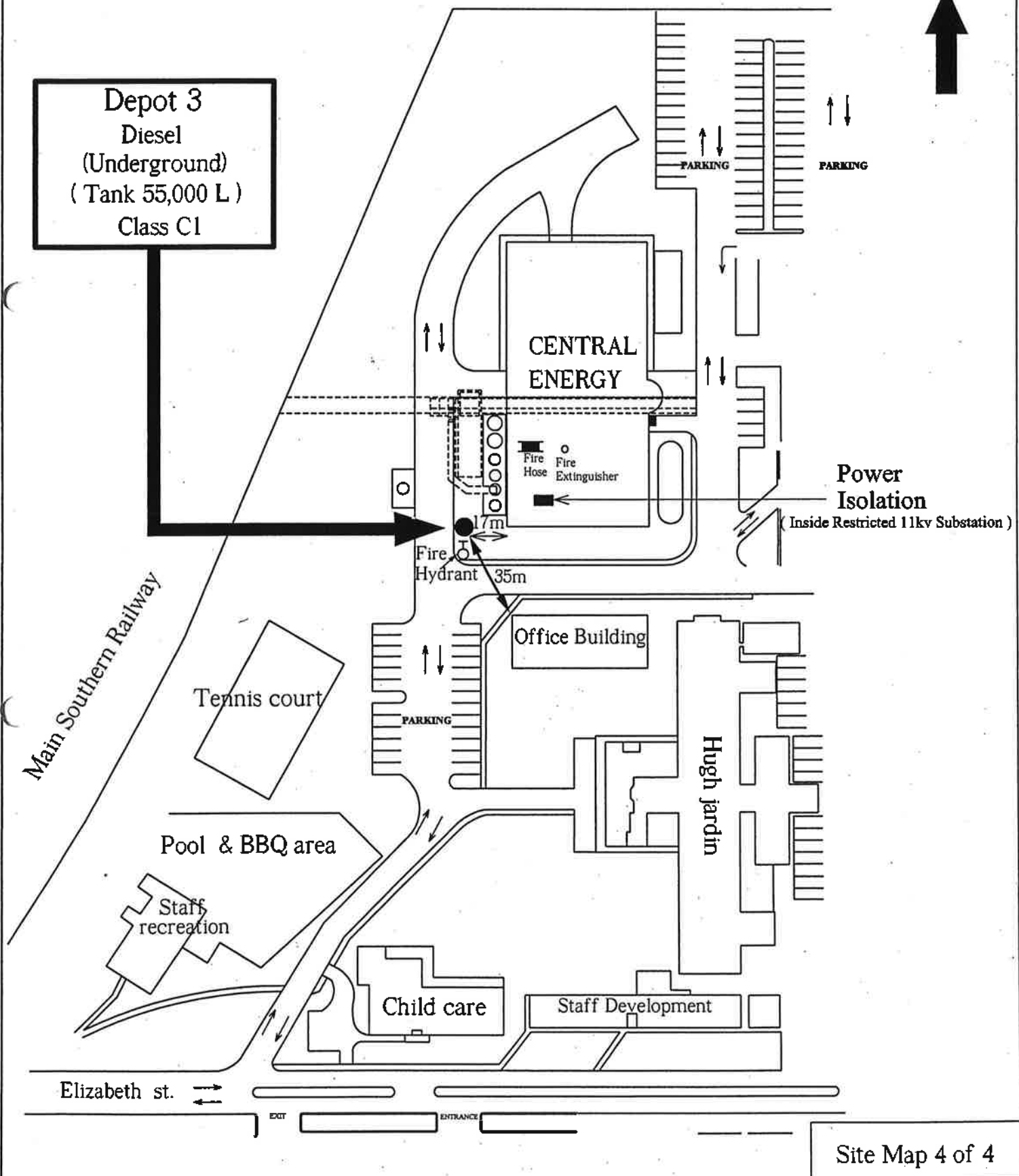
Staff  
recreation

Child care

Staff Development

Elizabeth st.

Site Map 4 of 4





## APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

**DECLARATION:** Please renew licence number 35/014356 to 14/08/2001. I confirm that all the licence details shown below are correct (amend if necessary).

  
(Signature)  
for: LIVERPOOL HOSPITAL

LEANNE TONAGH  
(Please print name)

14-9-00  
(Date signed)

**THIS SIGNED DECLARATION SHOULD BE RETURNED TO: (please do not fax)**

WorkCover New South Wales  
Dangerous Goods Licensing Section  
GPO BOX 5364  
SYDNEY 2001

Enquiries: ph (02) 9370 5187  
fax (02) 9370 6104

### Details of licence on 22 June 2000

Licence Number 35/014356      Expiry Date 14/08/2000

Licensee LIVERPOOL HOSPITAL

Postal Address: BOX 103 P O LIVERPOOL NSW 2170

LEANNE TONAGH 9828 6125  
Licensee Contact ALISTAIR CRAIB Ph. 9828 3000 Fax. 9828 6456

Premises Licensed to Keep Dangerous Goods  
LIVERPOOL HOSPITAL  
GOULBURN ST & ELIZABETH ST LIVERPOOL 2170

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods NOT APPLICABLE

Emergency Contact for this Site ALISTAIR CRAIB Ph. 9828 3000

Site staffing 24 HRS 7 DAYS

### Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	ROOFED STORE	Class 3	2000 L
		UN 00C1 DIESEL	400 L
		UN 1203 PETROL	200 L
		UN 1300 TURPENTINE SUBSTITUTE	200 L

2. PATHOLOGY FLAMMABLE  
STORE

Ethanol	class 3	620 L
Methanol	class 3	200 L
Waste (Ethanol/Xylene)	class 3	400 L
Xylene	class 3	

Form DG10  
300 L

6794 Rennie  
S8  
\$176  
S1  
183

**WORKCOVER AUTHORITY**  
**DETAILS OF LICENCE FOR KEEPING**  
**DANGEROUS GOODS ON 6 JULY 1994**

Licence Number 35/014356

Expiry Date 15/08/93

Licensee Details

Licensee LIVERPOOL HOSPITAL

Trading name

Postal Address BOX 103 P O, LIVERPOOL 2170

Licensee Contact

Site Details

Premises Licensed to Keep Dangerous Goods  
GOULBURN ST & ELIZABETH ST  
LIVERPOOL 2170

Nature of Site PRIVATE DWELLING Supplier NOT APPLICABLE

Emergency Contact ph.

Site staffing

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	ROOFED STORE	Class 3	2000 L
2	CYLINDER STORE	Class 2.1	500 L M
3	ABOVEGROUND TANK	Class 2.2/2.	15 KL 6000 L

3200  
+  
10600 = 34200  
2.7 ton

Site plan of the proposed development showing the layout of the site, including the existing building, the proposed building, and the parking area. The site is bounded by a 7000' line on the right and a 2000' line on the bottom. The existing building is a rectangle with dimensions 3000' by 2000'. The proposed building is a rectangle with dimensions 4000' by 4000'. The parking area is a circle with a diameter of 4000'. The site is labeled 'CONCRETE POND' in two locations. A north arrow is located in the bottom right corner.

**GOLDBORN STREET**

**DRAFT**  
 12:18 PM  
 12/11/79  
 Jackson MS & Cam-51  
 1046 189

**LAYOUT**  
VIE 45000 LITRE LIQUID NITROGEN VESSEL  
LIVERPOOL HOSPITAL CAMPUS  
GOULBORN STREET, LIVERPOOL

**E208-251**

10

**This plan conforms with the  
Dangerous Goods Act NSW 1975  
Information and Drawing Supplied**

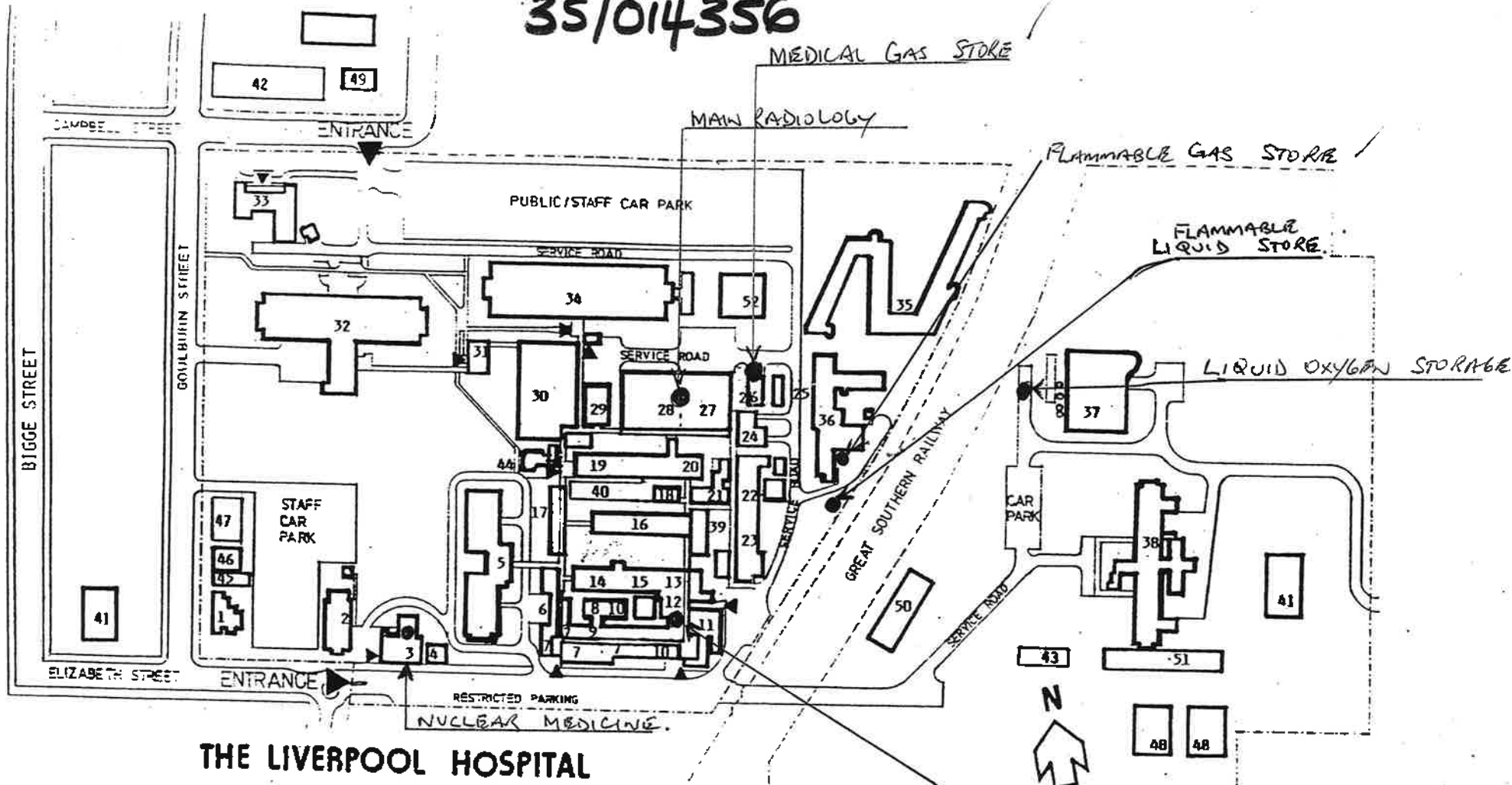
By CIC INSTRUCTIONS

**Approval for Class 2 Depot**

DATE 3-4-92

2 21/04/95 ML DRAFT

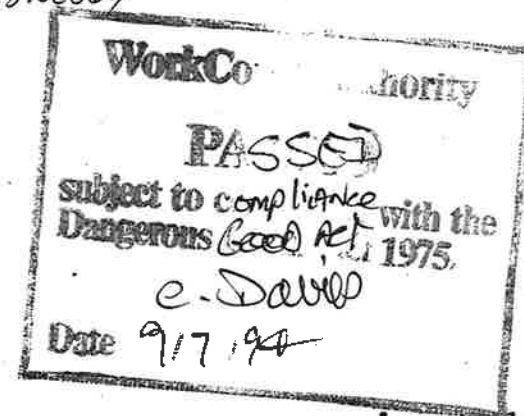
35/014356



## THE LIVERPOOL HOSPITAL

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
| 1 Outpatient Clinic - Dental Clinic | 21 Electro-Diagnostic (ECG/ERG)     | 33 Les Powell Centre                      |
| 2 Colonial Hall                     | 22 Staff Cafeteria                  | (Rehabilitation/Nurse Education)          |
| 3 Nuclear Medicine                  | 23 Kitchen                          | 34 Ground Floor - Don Everett Wing        |
| 4 Kiosk                             | 24 Linen Service                    | 35 Ron Dunbar House - staff accommodation |
| 5 Maternity - McGirr House)         | 25 Uniform Depot                    | 36 Maintenance/Gardening                  |
| 6 Social Work Dept                  | 26 Used Linen Depot                 | 37 Central Energy Station                 |
| 7 General Admin/Medical Admin/      | 27 Supply Department                | 38 Outpatients - Hugh Jardine Building    |
| Interview                           | 28 Radiology                        | 39 Medical Records                        |
| 8 Personnel                         | 29 CSSD                             | 40 High Dependency Unit                   |
| 9 Pharmacy                          | 30 Operating Suite                  | 41 NSWARS Area Administration Offices     |
| 10 Pathology (Admin/Haematology/    | 31 Information Centre               | 42 Health Services Building               |
| Biochemistry)                       | 32 Alex Grimson Wing                | 43 Child Care Centre                      |
| 11 Emergency Department             | Level 1 - Pathology/Computer Centre | 44 Chapel                                 |
| 12 Radiology - Emergency            | - Security                          | 45 Sexual Health Clinic                   |
| 13 Oncology                         | Level 2 - East (Ommond)             | 46 Methadone Maintenance Unit             |
| 14 Maternity Annexe                 | Level 2 - West (George Paciullo)    | 47 Drug & Alcohol Centre                  |
| 15 Haematology unit                 | Level 3 - East (Barley Daley)       | 48 Archives                               |
| 16 'S' Wing                         | Level 3 - West (Gus Mayberry)       | 49 Clinical School                        |
| 17 Nursing Administration           | Level 4 - E (BA Grace)              | 50 Staff Amenities Centre                 |
| 18 RMOs Duty Room                   | Level 4 - W (Belena McDonald)       | 51 Area Staff Development - SWARS         |
| 19 Short Stay/Day Only              |                                     | 52 Library                                |
| 20 ICU/CCU                          |                                     |   |

EMERGENCY  
RADIOLOGY



August, 1991