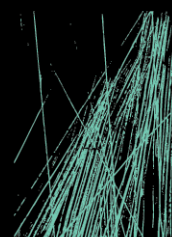




ESD SSDA REPORT

## **HAMMONDCARE GREENWICH**

**ESD SERVICES**



**JHA**

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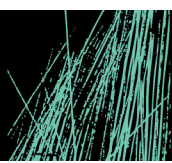


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## EXECUTIVE SUMMARY

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This report has been prepared by JHA to identify and summarise the Ecologically Sustainable Design (ESD) initiatives that have been considered in the design of the proposed HammondCare Greenwich located at 97-115 River Road, Greenwich, NSW, 2065.

This report demonstrates compliance with the Secretary's Environmental Assessment Requirements (SEARs) that apply to the project and has been prepared to accompany a State Significant Development (SSD) application to the NSW Department of Planning, Industry and Environment (DPIE). This report should be read in conjunction with the architectural design drawings and other consultant design reports submitted as part of the application.

The ESD objectives of this project are to encourage a balanced approach to designing new facilities for the project; to be resource-efficient, cost-effective in construction and operation; and to deliver enhanced sustainability benefits concerning impacts on the environment and well-being of residents, patients, staff, and visitors whilst providing the best possible facilities for a constructive environment.

The proposed key ESD commitments for the development are listed below:

- Sufficient exposure to daylight
- Appropriate construction and glazing selection
- Fabric and glazing 10% better than NCC compliance level
- Energy-efficient air-conditioning systems with control strategy and thermal comfort tuning
- Energy-efficient lighting systems
- High WELS-rated water fixtures
- Reduced car parking spaces and provision for electric vehicle parking
- Capture and reuse of rainwater
- On-site photovoltaic system (up to 170 kW)

# 1. INTRODUCTION

This ESD SSDA Report is submitted to the Department of Planning, Industry and Environment (DPIE) in support of a State Significant Development Application (SSD-13619238) for the redevelopment of Greenwich Hospital into an integrated hospital and seniors living facility on land identified as 97-115 River Road, Greenwich (the site). The extent of the site is shown below.



The subject proposal is for the detailed design and construction of the facility following its concept approval under SSD-8699. Specifically, SSD-13619238 seeks approval for the following:

- Demolition of the existing hospital building and associated facilities at the site;
- Construction of a new hospital facility and integrated healthcare campus comprising of hospital, residential aged care, seniors housing, overnight respite, across:
  - A new main hospital building up to RL 80.0;
  - Two new seniors living buildings, Northern building up to RL 56.36, and Southern building up to RL 60.65;
  - A new 2-3 respite care building up to RL 56.9;
- Construction of associated site facilities and services, including pedestrian and vehicular access and basement parking;
- Site landscaping and infrastructure works; and
- Preservation of Pallister House which will continue to host dementia care and administrative functions.

In accordance with section 4.39 of the Environmental Planning & Assessment Act 1979 (EP&A Act), the Secretary's Environmental Assessment Requirements (SEARs) for SSD-13619238 were issued on 24 February 2021. This report has been prepared to respond to the following SEARs:



6. Ecologically Sustainable Development (ESD)	The relevant section of the report
Address Ecologically Sustainable Development conditions imposed under SDD-8699	SECTION 2, 3, 4 and 5; Appendix A and B.
Identify proposed measures to minimize consumptions of resources, water including water-sensitive urban design and energy.	SECTION 4 and 5; Appendix A.
Provide an Integrated Water Management Plan detailing any proposed alternative water supplies, proposed end uses of potable and non-potable water, and water-sensitive urban design.	SECTION 4.7.2 Please refer to the Stormwater/Civil report for a detailed Integrated Water Management Plan.
<u>Relevant Policies and Guidelines:</u>  NSW and ACT Government Regional Climate Modelling (NARClIM) climate change projections.	SECTION 2; Appendix B

In accordance with the above SEARS requirements, the development will implement a holistic and integrated approach to ESD, maximising passive opportunities with the selective application of modern technology where appropriate.

The ESD initiatives outlined within this document have been compiled based on the following regulation, design tools, and design guidelines:

- National Construction Code (NCC) 2019 Section J – Energy Efficiency;
- Green Star Design & As-built equivalency v1.3

The items listed above of the SEARS requirements are addressed in Sections 2, 3, 4, 5 and Appendices of this report.

## 2. RESPONSES TO SSD-8699 DEVELOPMENT CONSENT

SSD-8699 Development Consent issued on 10 November 2020 states the following Ecologically Sustainable Development conditions:

### 2.1 CONDITION B16

All future development applications for new built forms must demonstrate how principles of Ecologically Sustainable Development have been incorporated into the design, construction and ongoing operation of the new buildings.

#### RESPONSE:

The development will follow the principles of Ecologically Sustainable Development as outlined in clause 7(4) of Schedule 2 of the Environmental Planning and Assessment Regulation 2000. Detailed design responses are included in *SECTION 3 PRINCIPLES OF ECOLOGICALLY SUSTAINABLE DEVELOPMENT*.

### 2.2 CONDITION B17

All future development applications for new built forms must consider opportunities for incorporation of Green Roofs.

#### RESPONSE:

Senior Living buildings will be provided with green roofs. Please refer to the Landscape Design Report describing the landscape design proposals and associated landscape considerations and assessment including site and context, landscape treatment, site access and circulation, as well as consideration of Green Roofs.

### 2.3 CONDITION B18

The development application(s) for future senior living buildings must be accompanied by a BASIX assessment.

#### RESPONSE:

The Senior Living Buildings are classified as a combination of Class 7a and Class 9c development. Thus, senior living buildings will meet or exceed the requirements in NCC2019 Section J rather than BASIX with the impact of thermal bridging taken into consideration.

In addition, DPIE requested the following during the Test of Adequacy (ToA) review:

*'An alternate framework for how the seniors housing development will be designed to consider and reflect national best practice sustainable building principles to improve environmental performance and reduce ecological impact. This must include an assessment against an accredited ESD rating system as you have advised that BASIX certification would not be relevant and Section J of the National Construction Code is not appropriate as a holistic ESD framework.'*

Due to the above, the project has carried out an additional Green Star benchmark assessment for the Senior Living Buildings targeting 4-Star equivalency under Green Star Design & As-built v1.3. Please see *SECTION 4 SUSTAINABLE DESIGN FRAMEWORK* and *SECTION 5 GREEN STAR RATING SCHEME COMPARISON* for details. Please also see *APPENDIX C* for NCC2019 Section J Part J1 Statement of Compliance.

### 2.4 CONDITION B19

The development application(s) for future health buildings must:

- Include a framework for how the future development will be designed to consider and reflect national best practice sustainable building principles to improve environmental performance and reduce ecological impact. This should be based on a materiality assessment and include waste reduction design measures, future-proofing, use of sustainable and low-carbon materials, energy and water-efficient design (including water-sensitive urban design) and technology and use of renewable energy;



- Include preliminary consideration of building performance and mitigation of climate change, including consideration of Green Star Performance and where certification cannot be achieved, specific details on where compliance cannot be achieved. In such instance, an assessment against an accredited ESD rating system or an equivalent program of ESD performance must be provided. This should include a minimum rating scheme target level; and
- Provide a statement regarding how the design of the future development is responsive to the CSIRO projected impacts of climate change, specifically:
  - i. *Hotter days and more frequent heatwave events;*
  - ii. *Extended drought period;*
  - iii. *More extreme rainfall events;*
  - iv. *Gustier wind conditions;*
  - v. *How these will inform landscape design, material selection and social equity aspects (respite/shelter area).*

RESPONSE:

The Sustainable Design Framework has been developed for the whole site and the aim is to incorporate the best practice design initiatives and ESD principles into the development. In addition to this, a benchmark assessment has been carried out against the requirements under Green Star Design & As-Built v1.3 for the health building. The result shows the health building can target to achieve 4 Star equivalent rating performance. Besides, a Climate Adaptation Plan has been prepared to analyse natural and urban climate risks, CSIRO projected impacts of climate change, as well as associated design responses.

In addition, DPIE requested the following during the Test of Adequacy (ToA) review:

*'An alternate framework for how the seniors housing development will be designed to consider and reflect national best practice sustainable building principles to improve environmental performance and reduce ecological impact. This must include an assessment against an accredited ESD rating system as you have advised that BASIX certification would not be relevant and Section J of the National Construction Code is not appropriate as a holistic ESD framework.'*

Due to the above, the project has carried out an additional Green Star benchmark assessment for the Senior Living Buildings targeting 4-Star equivalency under Green Star Design & As-built v1.3. Please see *SECTION 4 SUSTAINABLE DESIGN FRAMEWORK* and *SECTION 5 GREEN STAR RATING SCHEME COMPARISON* for details. Please also see *APPENDIX C* for NCC2019 Section J Part J1 Statement of Compliance.

### 3. PRINCIPLES OF ECOLOGICALLY SUSTAINABLE DEVELOPMENT

The principles as defined in clause 7(4) of Schedule 2 of the Environmental Planning and Assessment Regulation 2000 have been incorporated into the design and ongoing operation phases of the development as follows:

#### 3.1 THE PRECAUTIONARY PRINCIPLE

Namely, if there are threats of serious or irreversible environmental damage, a lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation. In the application of the precautionary principle, public and private decisions should be guided by:

- (i) Careful evaluation to avoid, wherever practicable, serious or irreversible damage to the environment, and;
- (ii) An assessment of the risk-weighted consequences of various options.

##### PROJECT RESPONSE:

This development is being designed in accordance with a wide range of ESD goals that pertain to the design, construction and operational stages. The development team will ensure that the building minimises the impact on the environment in the areas of energy, water and materials. The design will incorporate external high-performance glazing and shading devices, together with energy efficiency favoured passive design features to minimise severe or irreversible environmental damages.

In addition to the above, a Climate Adaptation Plan including a Risk Assessment has been undertaken to include the assessment of natural and urban hazards (e.g. flood, storm, heatwaves, bush fires, extreme storms and other weather events). Increasing resilience to natural hazards has been considered in the development so that associated costs are budgeted. Considering the NSW and ACT Government Regional Climate Modelling (NARClIM) climate change projections, there will be no significant temperature change for the proposed site by comparing the temperature of 1990 – 2009 to 2020-2079. Refer to Appendix B - Climate Adaptation Plan for the details of climate risks identified for this project and the relative responses, actions and responsibilities for high and extreme risks identified.

#### 3.2 INTER-GENERATIONAL EQUITY

Namely, the present generation should ensure that the health, diversity and productivity of the environment are maintained or enhanced for the benefit of future generations.

##### PROJECT RESPONSE:

This development will not cause any significant impact on the health, diversity and productivity of the environment and will provide a community benefit in the form of increased residents, employee capacity, upgraded living, caring, and working facilities. The project will contribute to a lively community environment and add architectural interest to the surrounding area.

#### 3.3 CONSERVATION OF BIOLOGICAL DIVERSITY AND ECOLOGICAL INTEGRITY

Namely, the conservation of biological diversity and ecological integrity should be a fundamental consideration

##### PROJECT RESPONSE:

A Biodiversity Development Assessment Report has been prepared by an Accredited Biodiversity Assessor in accordance with the Biodiversity Conservation Act 2016 and Biodiversity Conservation Regulation 2017 to ensure any future development will not have a significant effect on any threatened species, endangered communities, or their habitat. Ecological integrity has been considered for development. The design will include practical strategies to increase the ecological value of the site.



### 3.4 IMPROVED VALUATION, PRICING AND INCENTIVE MECHANISMS

Namely, environmental factors should be included in the valuation of assets and services, such as:

- (i) polluter pays, that is, those who generate pollution and waste should bear the cost of containment, avoidance or abatement,
- (ii) the users of goods and services should pay prices based on the full life cycle of costs of providing goods and services, including the use of natural resources and assets and the ultimate disposal of any waste,
- (iii) Environmental goals, having been established, should be pursued most cost-effectively, by establishing incentive structures, including market mechanisms that enable those best placed to maximise benefits or minimise costs to develop their solutions and responses to environmental problems.

#### PROJECT RESPONSE:

The project team has assessed the project against the Green Star Design & As-Built v1.3 equivalency Rating System. The construction material will be selected based on the outcomes of relative cost-benefit analysis with decisions being made based on the whole-of-life costs rather than capital expenditure only. Certified recycled and reused materials, as well as materials with low embodied energy, will be preferred over others.

## 4. SUSTAINABLE DESIGN FRAMEWORK

### 4.1 FRAMEWORK

The sustainable design framework for this development aims to incorporate the best practice design initiatives and ESD principles into the development. The ESD initiatives and targets outlined within this framework have been compiled based on the following:

- National Construction Code (NCC) Section J;
- Green Star Design & As-built equivalency v1.3;

### 4.2 BUILDING ENVELOPE

Intelligent design and material selection ensure that thermal comfort is not entirely achieved by mechanical means. Passive design initiatives such as performance glazing, shading and the use of insulation will reduce demand on the mechanical air conditioning systems resulting in a reduction in energy consumption and greenhouse gas emissions.

#### 4.2.1 BUILDING ENVELOPE PERFORMANCE

The building fabric will be designed to meet or exceed the NCC 2019 Section J requirements for the building envelope. Thermal breaks will be incorporated into walls, floors and roofs where appropriate to ensure a continuous thermal barrier on the building envelope, reducing the flow of thermal energy between conductive materials.

A Section J Part J1 JV3 assessment has been carried out to show compliance during the schematic design stage of the project. The indicative results on total construction R-value requirements demonstrating compliance with NCC 2019 Section J are provided below. The detailed assessment will be carried out in the detailed design stage to optimise the configuration to suit the project's needs.

#### 4.2.2 BUILDING FABRIC

The building fabric will comply with the Building Envelope improvement of 10% as required by the Green Star Design & As-built v1.3 (Credits 15A.1 and 15A.2). This Green Star credit achievement is demonstrated by JV3 modelling, i.e. JV3 proposed building performs better than the Green Star improved building as per the credit 15A.1 requirements.

The minimum performance requirements obtained under Section J Verification Method JV3 provision, coupled with an allowance for Green Star compliance for the development at the proposed location (Climate Zone 5) as per the NCC 2019 Section J - Energy Efficiency are:

Building Elements	Indicative NCC 2019 Requirements
Envelope Roof/Ceiling	Total R-Value of 4.1 (Downwards, Light Colour Roof Solar absorptance of the upper surface of a roof must be not more than 0.40)
Envelope Walls	Total R-Value of 1.6
Envelope Floors (Slab on Ground)	No Requirements
Envelope Floors (Other Areas)	Total R-Value of 2.2 (Downwards)

*Note: The impact of thermal bridging must be considered within the total R-value calculation under NCC2019.*

Please see *APPENDIX C NCC2019 SECTION J PART J1 STATEMENT OF COMPLIANCE* for details.

This will necessitate the use of insulation in the walls, floor and roof for the building fabrics. Insulation reduces heat flow and consequent heat loss in winter and heat gain in summer. This minimises the heating and cooling load demand on the air conditioning systems. Light-coloured roof material with a low solar absorptance (SA) is recommended to be used to isolate more sunlight and reduce summer heat gain. It also has the effect of reducing elevated localised temperatures

(the heat island effect) and potentially can improve the efficiency of solar PV panels (if any) as they perform more efficiently in reduced temperatures.

### 4.2.3 GLAZING

Glazing is a major source of unwanted heat gain in the summer and can cause significant heat loss in the winter due to its low insulation performance. It is thus recommended that windows will be high-performance glazing systems. Performance glazing substantially reduces heat transmission. This particularly reduces heat loss in winter; therefore, internal heat gain from equipment, lighting and people are better contained. Also, performance glazing absorbs the infrared portion of sunlight and reduces the amount of heat transferred into the conditioned space. This will correspond to a reduction of both heating and cooling loads.

The building will comply with NCC 2019 Section J Energy Efficiency. A Section J Part J1 JV3 assessment has been carried out to show compliance during the schematic design stage of the project. The indicative glazing specifications below are based on the result of Section J JV3 assessment. Please see *APPENDIX C NCC2019 SECTION J PART J1 STATEMENT OF COMPLIANCE* for details.

HEALTH BUILDING			
Glazing Element	Window Assembly (Glass & Frame)		Description
	Total U-value	Total SHGC	
External Vertical Glazing (Awning, Casement Types)	5.4	0.45	SGU Low-e/DGU Neutral or the like
External Vertical Glazing (Sliding, Fixed Types)	4.7	0.48	SGU Low-e/DGU Neutral or the like
Skylights	3.9	0.29	Double Glazed Skylights or the like

SENIOR LIVING BUILDINGS			
Glazing Element	Window Assembly (Glass & Frame)		Description
	Total U-value	Total SHGC	
External Vertical Glazing (Awning, Casement Types)	6.0	0.45	SGU Low-e/DGU Neutral/Clear or the like
External Vertical Glazing (Sliding, Fixed Types)	4.7	0.55	SGU Low-e/DGU Neutral/Clear or the like

## 4.3 SHADING AND DAYLIGHTING

Solar access can enhance indoor environmental quality through access to daylighting and reduce lighting energy consumption. However, excessive solar access and hence, direct solar radiation heat can increase HVAC energy demand and can also cause thermal discomfort. The passive solar heating principle which aims to prevent solar heat gain in the summer and harvest it in the winter for a free source of heating, and the Passive cooling principle which prevents heat from entering the building during the summer months, are strategies that can conveniently take advantage of the site-

specific solar access for optimised indoor environmental quality and reduction of HVAC energy demand through the use of tailored shadings.

The proposed buildings have been designed to make the best use of the sun by using external high-performance horizontal eave shading to prevent the high summer sun from entering the building whilst allowing the low winter sun to enter the building for passive heating.

These passive design features allow for enriched daylighting and greater access to external views for occupants. Additional daylighting reduces the reliance on artificial light and benefits alertness, mood and productivity. External views provide a connection to nature and the building and also help to create an environment encouraging constructive experience.

#### 4.4 NATURAL VENTILATION

Adequate natural air movement makes an important contribution to creating a comfortable indoor environment and reducing the need for mechanical ventilation by carrying accumulated heat out and replacing it with cooler external air. This is important during the summer months when heat build-up within spaces can be quickly removed with the availability of a suitable breeze at the site.

The design team proposed to utilise natural ventilation and air circulation through operable windows. For spaces where operable windows cannot be provided, mechanical outside air ventilation will be provided with local desertification fans.

#### 4.5 ENERGY EFFICIENCY

Each climate zone under the Building Code has different design and conditioning requirements to minimise energy use for heating and cooling. A good balance of heating and cooling reduction techniques are required to create an energy-efficient development.

##### 4.5.1 HEATING, COOLING AND VENTILATION SYSTEMS

The air-conditioning and ventilation systems shall be designed to comply with or exceed the minimum requirements of NCC 2019 Section J5.

The proposed underground car park will be provided with a mechanical exhaust system that will discharge through the roof. The car park mechanical ventilation system will be controlled via a carbon monoxide (CO) monitoring system, and the car park exhaust fan will also be provided with a variable speed drive (VSD) to optimise energy efficiency. The basement storage room will be provided with an outside air ventilation system comprising of an inline fan ducted from a louvre.

The air conditioning strategy for the health building will be a high-efficient chiller/boiler on the solid roof serving the health building via several air handling units. The Senior Living buildings are proposed to have high-efficiency air conditioning systems with air-cooled condenser units. For certain ground-level apartments, condensers will be located on balconies as this is considered the most favourable approach. For other apartments, common central VRV/VRF heat recovery condensers are provided. The air-cooled heat rejection system will help minimise the impacts associated with harmful microbes (e.g. Legionella impact). All bathrooms, laundries, and general exhaust are to be naturally ventilated where possible, with mechanical ventilation required where necessary and provided with switch controls (for example manual switches, timer and interlocked to light). The design will have a sufficient amount of exhaust fans to ensure the liveability of the residents.

The control of the air conditioning system shall be designed to minimise energy consumption with a system such as an after-hour push-button for adjustable timer controller and/or motion detector controls. Further, high-efficiency equipment for the HVAC system will be selected to assist with the energy conservation of the building.



Ductwork systems will be designed to reduce system pressure losses to reduce fan motor power. This includes the selection of equipment for reduced coil and fittings drops and being generous with ductwork sizes to reduce friction losses.

These initiatives will provide significant savings in energy use.

#### **4.5.2 LIGHTING**

Lighting will be designed to comply with or exceed the minimum requirements of NCC 2019 Section J6. Fittings incorporating the latest lamp technologies will be installed to minimise energy use and provide efficient artificial lighting systems. The proposed development shall be illuminated using LED fittings and be controlled via an automatic control system with timer controls, PIR occupancy sensors and microwave occupancy sensors.

Lighting in each primary space in the health building shall be provided with a daylight sensor to reduce light output or turn off lights when sufficient daylight is provided within the space. For large spaces, perimeter lighting shall be designated on a separate zone to make maximum use of the daylight.

#### **4.5.3 CONTROLS**

All lighting and HVAC installed shall be controlled by a time switch or motion sensor for energy conservation.

Closed spaces such as storage rooms and cleaner's cupboards are to also have a wall switch. Voltage control (dimming) should be provided where appropriate.

#### **4.5.4 ELECTRICITY METERING**

Electricity metering and sub-metering shall be specified in accordance with Section J to monitor and manage electricity consumption in the building. A single authority meter or 'Gate Meter' will be installed on the incoming supply. Then there will be 'NMI' compliant meters installed throughout the installation where separate entities are required to be metered and billed. Sub-metering will be provided to distinct floors and distinct usage.

#### **4.5.5 PHOTOVOLTAICS**

Collecting solar energy has been chosen as a key ESD strategy for the project, with an aspirational goal of reducing the building's energy consumption and greenhouse gas emissions from a renewable source via the provision of a roof-mounted photovoltaic system. The project is proposing more than 170 kW of photovoltaic systems for the 2-off senior living buildings.

#### **4.5.6 ENERGY-EFFICIENT APPLIANCES AND EQUIPMENT**

Energy consumption shall be reduced by installing energy-efficient appliances. Appliances with higher energy stars will provide a return in saving energy and decrease greenhouse gas emissions. Appliances shall be selected within 1 star of the highest energy efficiency rating available on the market.

### **4.6 INDOOR AIR QUALITY (IAQ)**

The quality of indoor air has a significant impact on our health and environment. Poor indoor air quality results in adverse health effects such as allergy, asthma, etc. The outdoor air ventilation rates shall be in accordance with AS 1668.2 for mechanically ventilated spaces. The ventilation system shall be designed to minimise the entry of outdoor pollutants as per ASHRAE Standard 62.1:2013.

## 4.7 WATER CONSERVATION

The following initiatives are proposed to ensure that significant water saving is achieved.

### 4.7.1 FITTINGS AND FIXTURES

Water consumption shall be reduced by incorporating water-efficient fixtures and fittings in accordance with the Australian Government's Water Efficiency Labelling Scheme (WELS). The fixtures and fittings are to have the following minimum WELS Rating. In addition, flow restrictors or taps with timed flows can be used to minimise water usage.

Water Fittings/fixtures	Minimum WELS Rating	Highest Available Rating (AS/NZS 6400-2016)
Showerhead rating	3 (>4.5, but ≤ 6L/min)	4
Toilet and urinals rating	4	6
Taps and flow controllers	6	6
Dishwashers	5	6
Washing machines	4.5	6

### 4.7.2 WATER-SENSITIVE URBAN DESIGN

External area design will implement best practices of water-sensitive urban design, including indigenous and/or low water usage plants, to increase stormwater retention and decrease total suspended solids in stormwater. The post-development peak average recurrence interval (ARI) event discharge from the site will not exceed pre-development levels. The Integrated Water Management (IWM) Plan including Water Sensitive Urban Design (WSUD) and detailing the proposed alternative water supplies, proposed end uses of potable and non-potable water, and water-sensitive urban design will be prepared by a stormwater/civil specialist.

### 4.7.3 ROOF WATER HARVESTING AND TANK STORAGE

Rainwater tanks will be installed on the site to reduce the demand for potable water supplies and will be connected to locally identified end-use such as irrigation or toilet flushing system. The current proposal is inclusive of a Rainwater harvesting tank with a size of 140 KL.

## 4.8 TRANSPORT

### 4.8.1 LOW EMISSION VEHICLE INFRASTRUCTURE

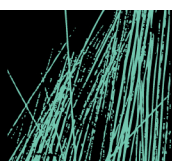
To encourage the use of low-emission vehicles, the health building development will consider making at least 5% of its parking spaces dedicated to electric vehicles. Associated charging infrastructure will be provided to each EV parking space.

## 4.9 ECOLOGICAL CONSERVATION

The HammondCare Greenwich design has been designed to bring nature and the buildings together by optimising the use of outdoor space with the provision of sensible separation of uses, such as active play, walking and gathering space, and flexible spaces of varying form and function for outdoor environmental activities, whilst ensuring connectivity throughout the site between health building, senior living buildings, and respite building.

#### 4.10 WASTE

Waste collection and disposal play an important role in the protection of the environment and the health of the population in the modern world. A waste management plan will be prepared to assess and monitor the waste management process during construction and demolition, as well as waste produced during occupation within the development. The waste management plan shall incorporate how to minimise the amount of waste generated, maximise the reuse, recycling and reprocessing of construction waste materials and minimise the volume of materials disposed of in landfills.



## 5. GREEN STAR RATING SCHEME COMPARISON

The project team has benchmarked the health building and 2-off senior living buildings against the Green Star Design & As-Built v1.3 Rating System.

For the purposes of benchmarking, a Green Star Scorecard has been prepared (attached as Appendix A), which lists the sustainability initiatives targeted for the project. The below table summarises the outcomes of the Green Star benchmarking assessment. Points are calculated as per the official Green Star Design and As-built v1.3 Scorecard. For a 4-star rating, the health building and 2-off senior living buildings need to achieve a minimum of 45 points.

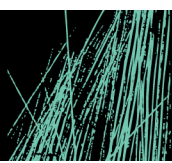
The proposed health building will target a minimum of 55 points, giving the project a buffer of 10 points. Whereas both the senior living buildings will target a minimum of 60 points, giving a buffer of 15 points if some points become infeasible due to unforeseen factors.

Category	Total Points Targeted	
	Health Building	2-off Senior Living Buildings
Management	12	12
Indoor Environment Quality	11	13
Energy	4	5
Transport	4	4
Water	6	5
Materials	6	6
Land Use & Ecology	2	3
Emissions	4	4
Innovation	4	5
Total Score	<b>53 Points</b>	<b>57 Points</b>
Minimum Points Required	<b>45 Points</b>	<b>45 Points</b>
Points Buffer	<b>8 Points</b>	<b>12 Points</b>

Note: The health building and 2-off senior living buildings are not pursuing formal Green Star ratings through the certification procedures of the Green Building Council Australia (GBCA).

## APPENDIX A: GREEN STAR SCORECARD

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# Green Star - Design & As Built Scorecard v1.3

Project: 210031 HammondCare Greenwich - Health Building

Targeted Rating: 4 Star - Australian Best Practice. Min 45% of available points

Final Score	Total Score (without Innovation)	Points Available	Points Targeted (without Innovation)	Innovation
53.0	49.0	100	49	4

Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Management			14	12	
Green Star Accredited Professional	1.1	Accredited Professional	1	1	ESD
Commissioning and Tuning	2.0	Environmental Performance Targets	Complies (Mandatory)		All services consultants
	2.1	Services and Maintainability Review	1	1	
	2.2	Building Commissioning	1	1	
	2.3	Building Systems Tuning	1	1	
	2.4	Independent Commissioning Agent	1	-	
Adaptation and Resilience	3.1	Implementation of a Climate Adaptation Plan	2	2	All services consultants, Architect
Building Information	4.1	Building Information	1	1	Head Contractor
Commitment to Performance	5.1	Environmental Building Performance	1	1	Owner, Architect
	5.2	End of Life Waste Performance	1	1	
Metering and Monitoring	6.0	Metering	Complies (Mandatory)		Mechanical, Electrical & Hydraulic
	6.1	Monitoring Systems	1	-	
Responsible Building Practices	7.0	Enviromental Management Plan	Complies (Mandatory)		Head Contractor
	7.1	Formalised Enviromental Management System	1	1	
	7.2	High Quality Staff Support	1	1	
Operational Waste	8B	Prescriptive Pathway: Facilities	1	1	Architect
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	
Indoor Environment Quality			17	11	
Indoor Air Quality	9.1	Ventilation System Attributes	1	1	Mechanical
	9.2	Provision of Outdoor Air	2	-	
	9.3	Exhaust or Elimination of Pollutants	1	1	Mechanical
Acoustic Comfort	10.1	Internal Noise Levels	1	1	Acoustic
	10.2	Reverberation	1	1	
	10.3	Acoustic Separation	1	1	
Lighting Comfort	11.0	Minimum Lighting Comfort	Complies (Mandatory)		Electrical
	11.1	General Illuminance and Glare Reduction	1	1	
	11.2	Surface Illuminance	1	-	
	11.3	Localised Lighting Control	1	-	
Visual Comfort	12.0	Glare Reduction	Complies (Mandatory)		Architect
	12.1	Daylight	2	1	Architect, ESD
	12.2	Views	1	1	Architect
Indoor Pollutants	13.1	Paints, Adhesives, Sealants and Carpets	1	1	Architect & Services Consultants
	13.2	Engineered Wood Products	1	1	
Thermal Comfort	14.1	Thermal Comfort	1	1	Mechanical & ESD
	14.2	Advanced Thermal Comfort	1	-	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Energy			22	4	
Greenhouse Gas Emissions	15A.0	Conditional Requirement: Prescriptive Pathway	Complies (Mandatory)		ESD, Service Consultant & Architects
	15A.1	Building Envelope	1	1	
	15A.2	Wall-glazing Construction and Retail Display Glazing	1	1	
	15A.3	Lighting	1	1	ESD, Service Consultant & Architects
	15A.4	Ventilation and Airconditioning	1	-	
	15A.5	Domestic Hot Water	1	-	
	15A.6	Transition Plan	1	1	Owner
	15A.7	Fuel Swithcing	1	-	
	15A.8	On-site Storage	1	-	
	15A.9	Vertical Transportation	1	-	
Peak Electricity Demand Reduction	15A.10	Off-site Renewables	1	-	
	16A	Prescriptive Pathway - On-site Energy Generation	1	-	
	16B	Modelled Performance Pathway - Reference Building	2	-	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Transport			10	4	
Sustainable Transport	17B.1	Access by Public Transport	3	1	Owner & Architect
	17B.2	Reduced Car Parking Provision	1	1	
	17B.3	Low Emission Vehicle Infrastructure	1	1	Owner, Electrical & Architect
	17B.4	Active Transport Facilities	1	-	
	17B.5	Walkable Neighbourhoods	1	1	Owner & Architect
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Water			12	6	
Potable Water	18B.1	Sanitary Fixture Efficiency	1	1	Architect, Hydraulic
	18B.2	Rainwater Reuse	1	1	Architect, Hydraulic
	18B.3	Heat Rejection	2	2	Mechanical, Architect
	18B.4	Landscape Irrigation	1	1	Architect, Hydraulic
	18B.5	Fire Protection System Test Water	1	1	Fire
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Materials			14	6	
Life Cycle Assessment (LCA)	19A.1	Comparative Life Cycle Assessment	6	-	
	19A.2	Additional Life Cycle Impact Reporting	4	-	
Life Cycle Impacts	19B.1	Concrete	3	2	Head Contractor & Structural
	19B.2	Steel	1	1	
	19B.3	Building Reuse	4	-	
	19B.4	Structural Timber	4	-	
Responsible Building Materials	20.1	Structural and Reinforcing Steel	1	1	Head Contractor, Structural
	20.2	Timber Products	1	-	
	20.3	Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	1	All
Sustainable Products	21.1	Product Transparency and Sustainability	3	-	Head contractor
Construction and Demolition Waste	22.0	Reporting Accuracy	Complies (Mandatory)		
	22A	Fixed Benchmark	1	1	
	22B	Percentage Benchmark			
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Land Use & Ecology			6	2	
Ecological Value	23.0	Endangered, Threatened or Vulnerable Species	-		Landscape
	23.1	Ecological Value	3	1	Landscape
Sustainable Sites	24.0	Conditional Requirement	Complies (Mandatory)		Owner
	24.1	Reuse of Land	1	1	
	24.2	Contamination and Hazardous Materials	1	-	
Heat Island Effect	25.0	Heat Island Effect Reduction	1	-	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Emissions			5	4	
Stormwater	26.1	Stormwater Peak Discharge	1	1	Civil

Stormwater	26.2	Stormwater Pollution Targets	1	1	Civil
Light Pollution	27.0	Light Pollution to Neighbouring Bodies	Complies (Mandatory)		Electrical
	27.1	Light Pollution to Night Sky	1	1	
Microbial Control	28.0	Legionella Impacts from Cooling Systems	1	1	Mechanical
Refrigerant Impacts	29.0	Refrigerant Impacts	1	-	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Innovation			10	4	
Innovative Technology or Process	30A	Microbial Control	1	1	Hydraulic
	30C	Indoor Pollutants	1	1	Architect
		Stormwater	1	1	Civil
Innovation Challenge	30D	Occupant Engagement	1	1	Owner

# Green Star - Design & As Built Scorecard v1.3

Project: 210031 HammondCare Greenwich - Senior Living Buildings

Targeted Rating: 4 Star - Australian Best Practice. Min 45% of available points

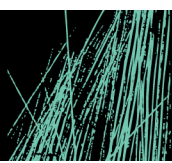
Final Score	Total Score (without Innovation)	Points Available	Points Targeted (without Innovation)	Innovation
57.0	52.0	100	52	5

Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Management		Management	14	12		
Green Star Accredited Professional	1.1	Accredited Professional	1	1	ESD	
Commissioning and Tuning	2.0	Environmental Performance Targets	Complies (Mandatory)		All services consultants	
	2.1	Services and Maintainability Review	1	1		
	2.2	Building Commissioning	1	1		
	2.3	Building Systems Tuning	1	1		
	2.4	Independent Commissioning Agent	1	-		
Adaptation and Resilience	3.1	Implementation of a Climate Adaptation Plan	2	2	All services consultants, Architect	
Building Information	4.1	Building Information	1	1	Head Contractor	
Commitment to Performance	5.1	Environmental Building Performance	1	1	Owner, Architect	
	5.2	End of Life Waste Performance	1	1		
Metering and Monitoring	6.0	Metering	Complies (Mandatory)		Mechanical, Electrical & Hydraulic	
	6.1	Monitoring Systems	1	-		
Responsible Building Practices	7.0	Enviromental Management Plan	Complies (Mandatory)		Head Contractor	
	7.1	Formalised Enviromental Management System	1	1		
	7.2	High Quality Staff Support	1	1		
Operational Waste	8B	Prescriptive Pathway: Facilities	1	1	Architect	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Indoor Environment Quality		Indoor Environmental Quality	17	13		
Indoor Air Quality	9.1	Ventilation System Attributes	1	1	Mechanical	
	9.2	Provision of Outdoor Air	2	-		
	9.3	Exhaust or Elimination of Pollutants	1	1	Mechanical	
Acoustic Comfort	10.1	Internal Noise Levels	1	1	Acoustic	
	10.2	Reverberation	1	1		
	10.3	Acoustic Separation	1	1		
Lighting Comfort	11.0	Minimum Lighting Comfort	Complies (Mandatory)		Electrical	
	11.1	General Illuminance and Glare Reduction	1	1		
	11.2	Surface Illuminance	1	1		Architect, Electrical
	11.3	Localised Lighting Control	1	1		Architect, Electrical
Visual Comfort	12.0	Glare Reduction	Complies (Mandatory)		Architect	
	12.1	Daylight	2	1	Architect, ESD	
	12.2	Views	1	1	Architect	
Indoor Pollutants	13.1	Paints, Adhesives, Sealants and Carpets	1	1	Architect & Services Consultants	
	13.2	Engineered Wood Products	1	1		
Thermal Comfort	14.1	Thermal Comfort	1	1	Mechanical & ESD	
	14.2	Advanced Thermal Comfort	1	-		
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Energy		Energy	22	5		
Greenhouse Gas Emissions	15A.0	Conditional Requirement: Prescriptive Pathway	Complies (Mandatory)		ESD, Service Consultant & Architects	
	15A.1	Building Envelope	1	1		
	15A.2	Wall-glazing Construction and Retail Display Glazing	1	1		
	15A.3	Lighting	1	1	ESD, Service Consultant & Architects	
	15A.4	Ventilation and Airconditioning	1	-		
	15A.5	Domestic Hot Water	1	-		
	15A.6	Transition Plan	1	1	Owner	
	15A.7	Fuel Swithcing	1	-		
	15A.8	On-site Storage	1	-		
	15A.9	Vertical Transportation	1	-		
	15A.10	Off-site Renewables	1	-		
Peak Electricity Demand Reduction	16A	Prescriptive Pathway - On-site Energy Generation	1	1	Architect, Electrical, Owner	
	16B	Modelled Performance Pathway - Reference Building	2	-		
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Transport		Transport	10	4		
Sustainable Transport	17B.1	Access by Public Transport	3	1	Owner & Architect	
	17B.2	Reduced Car Parking Provision	1	1		
	17B.3	Low Emission Vehicle Infrastructure	1	1	Owner, Electrical & Architect	
	17B.4	Active Transport Facilities	1	-		
	17B.5	Walkable Neighbourhoods	1	1	Owner & Architect	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Water		Water	12	5		
Potable Water	18B.1	Sanitary Fixture Efficiency	1	1	Architect, Hydraulic	
	18B.2	Rainwater Reuse	1	-		
	18B.3	Heat Rejection	2	2	Mechanical, Architect	
	18B.4	Landscape Irrigation	1	1	Architect, Hydraulic	
	18B.5	Fire Protection System Test Water	1	1	Fire	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Materials		Materials	14	6		
Life Cycle Assessment (LCA)	19A.1	Comparative Life Cycle Assessment	6	-	Head Contractor & Structural	
	19A.2	Additional Life Cycle Impact Reporting	4	-		
Life Cycle Impacts	19B.1	Concrete	3	2		
	19B.2	Steel	1	1		
	19B.3	Building Reuse	4	-		
	19B.4	Structural Timber	4	-		
Responsible Building Materials	20.1	Structural and Reinforcing Steel	1	1	Head Contractor, Structural	
	20.2	Timber Products	1	-		
	20.3	Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	1	All	
Sustainable Products	21.1	Product Transparency and Sustainability	3	-	Head contractor	
	22.0	Reporting Accuracy	Complies (Mandatory)			
Construction and Demolition Waste	22A	Fixed Benchmark	1	1		
	22B	Percentage Benchmark				
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Land Use & Ecology		Land Use & Ecology	6	3		
Ecological Value	23.0	Endangered, Threatened or Vulnerable Species	-		Landscape	
	23.1	Ecological Value	3	1	Landscape	
Sustainable Sites	24.0	Conditional Requirement	Complies (Mandatory)		Owner	
	24.1	Reuse of Land	1	1		
	24.2	Contamination and Hazardous Materials	1	-		
Heat Island Effect	25.0	Heat Island Effect Reduction	1	1	Architect, Landscape	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility	
Emissions		Emissions	5	4		
Stormwater	26.1	Stormwater Peak Discharge	1	1	Civil	
	26.2	Stormwater Pollution Targets	1	1	Civil	
Light Pollution	27.0	Light Pollution to Neighbouring Bodies	Complies (Mandatory)		Electrical	
	27.1	Light Pollution to Night Sky	1	1		

Microbial Control	28.0	Legionella Impacts from Cooling Systems	1	1	Mechanical
Refrigerant Impacts	29.0	Refrigerant Impacts	1	-	
Category/Credit	Code	Credit Criteria	Points Available	Points Targeted	Responsibility
Innovation		Innovation	10	5	
Innovative Technology or Process	30A	Renewable Energy Contribution (including shared renewable services)	2	1	Electrical
Improving on Green Star Benchmarks	30C	Indoor Pollutants	1	1	Architect
		Stormwater	2	1	Civil
Innovation Challenge	30D	Occupant Engagement	1	1	Owner
		Universal Design	1	1	Architect

## APPENDIX B: CLIMATE ADAPTATION PLAN

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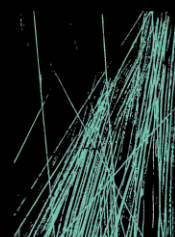




CLIMATE RISK ASSESSMENT REPORT

**HAMMONDCARE GREENWICH  
CLIMATE ADAPTATION PLAN**

**ESD SERVICES**



**JHA**

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## DOCUMENT CONTROL SHEET

Project Number	210031
Project Name	HammondCare Greenwich
Description	Climate Adaptation Plan
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## EXECUTIVE SUMMARY

A Climate Adaptation Plan (CAP) report has been prepared for the proposed development of HammondCare Greenwich located at 97-115 River Road, Greenwich, NSW, 2065.

The impacts of climate change were assessed across two time scales (2030 & 2070) and two Representative Concentration Pathways (RCP4.5 & RCP 8.5). Climate Futures matrices were used to determine the key climate projections based on multiple climate variables for this risk assessment. The key climate projections were used to inform the climate risk assessment.

The risk priority levels of the climate risks identified pre- and post-adaptation are summarised below:

Risk rating	2030 Pre-adaptation	2030 Post-adaptation	2070 Pre-adaptation	2070 Post-adaptation
Low	2	3	2	3
Medium	3	2	1	2
High	0	0	2	0
Extreme	0	0	0	0

The results of the climate risk assessment identified two high risks items pre-adaptation. These high risks were mitigated to medium risks by the proposed adaptation actions. The responses to high risks are summarised as follows:

1. Higher average surface temperature and less rainfall conditions causing an increase in the frequency and/or severity of bushfire events directly damaging the building. This risk is mitigated by ensuring non-combustible building elements are used in the fabric of the building and by implementing good management practice to remove potential fuel source around the building once the building is in operation.
2. Higher maximum daily temperature and lower humidity conditions resulting in higher frequency and/or duration of extreme hot days resulting in insufficient capacity of the HVAC system to maintain thermal comfort. This risk is mitigated by the incorporation of passive thermal principles such as appropriate external shades and thermal insulation and by upgrading the capacity of the HVAC system once the current system has reached the end of its service life.

In summary all risk items identified as 'high' or 'extreme' are addressed by specific design responses in addition to at least two risks items identified in the risk assessment being addressed by specific design responses.

# 1 INTRODUCTION

---

This CAP report has been prepared for the proposed development of HammondCare Greenwich located at 97-115 River Road, Greenwich, NSW, 2065.

In accordance with Green Star – Design & As-Built v1.3 Credit 3 “Adaptation and Resilience” and CSIRO projected impacts of climate change the purpose of the CAP is to provide:

- Details of stakeholder consultation that was undertaken during plan preparation, incorporating their responses (see Section 1.3)
- Summary of the project's characteristics (site, location, climatic characteristics) (see Section 2)
- Assessment of climate change scenarios and impacts on the project using two time scale relevant to the project anticipated lifespan (see Section 3)
- Summary of potential direct and indirect climate change impacts (environmental, social and economic) (see Section 4)
- Identification of the potential risks for the project and people based on recognised standard (see Section 4)
- A list of actions and responsibilities for ‘high’ and ‘extreme’ risks identified (see Section 4)



## 1.1 PROJECT DESCRIPTION

This ESD SSDA Report is submitted to the Department of Planning, Industry and Environment (DPIE) in support of a State Significant Development Application (SSD-13619238) for the redevelopment of Greenwich Hospital into an integrated hospital and seniors living facility on land identified as 97-115 River Road, Greenwich (the site). The extent of the site is shown below.



The subject proposal is for the detailed design and construction of the facility following its concept approval under SSD-8699. Specifically, SSD-13619238 seeks approval for the following:

- Demolition of the existing hospital building and associated facilities at the site;
- Construction of a new hospital facility and integrated healthcare uses and services, including:
  - A new 7 storey main hospital building;
  - Two new 5-6 storey serviced self-care housing buildings (serviced seniors living);
  - A new 2-3 storey respite care building;
- Construction of associated site facilities and services, including pedestrian and vehicular access and basement parking;
- Site landscaping and infrastructure works; and
- Preservation of Pallister House which will continue to host dementia care and administrative functions.

In accordance with section 4.39 of the Environmental Planning & Assessment Act 1979 (EP&A Act), the Secretary's Environmental Assessment Requirements (SEARs) for SSD-13619238 were issued on 24 February, 2021. This report has been prepared to demonstrate the project's Climate Adaptation Plan as required under the SEARs.

## 1.2 REFERENCE DOCUMENTS AND STANDARDS

This CAP will assess potential risks and propose mitigation strategies as necessary in accordance with the following documents and standards:

- Green Star Design and As-Built v1.3 Submission Guidelines;
- SEARs and CSIRO requirements
- NSW and ACT Regional Climate Modelling (NARClIM) climate change projections;
- AS 5334:2013 Climate Change Adaptation for Settlement and Infrastructure;

## 1.3 STAKEHOLDERS CONSULTATION

As a part of the CAP development process, the stakeholders consulted are listed below.

Stakeholder	Role
HammondCare – Katie Formston	Design Lead
TSA Management – Alex Lisney, Iain Macfarlane	Project Manager
Bickerton Masters – Caitlin Masters, Bruce Forrester, Simon Phillips	Architect
JHA Consulting Engineers – Mathew MacIntyre, Maurice Bond, Scott Thompson, Jason Smith, Sean Matthews, George Petropoulos, Gary Tang	Electrical, Mechanical, Hydraulic, Fire Services, Acoustic, VT, ESD Engineer

## 2 PROJECT'S CLIMATIC CHARACTERISTICS

Greenwich is located in NCC Climate Zone 5, which is described as warm temperate.

As part of the Greater Sydney region, Greenwich enjoys a sunny climate with mild winters and warm summers.

### 2.1 BASELINE CLIMATIC CONDITIONS

The baseline climatic conditions for Greenwich are taken from the closest weather station data available from the Bureau of Meteorology. The closest weather station is Macquarie Park (Willandra Village) which is approx. 9.1 km away from the building location.

Weather station details:

- **Site name:** MACQUARIE PARK (WILLANDRA VILLAGE)
- **Site number:** 066156
- **Latitude:** 33.78 °S **Longitude:** 151.11 °E
- **Elevation:** 65 m
- **Commenced:** 1970
- **Status:** Open
- **Last updated:** 31 May 2021

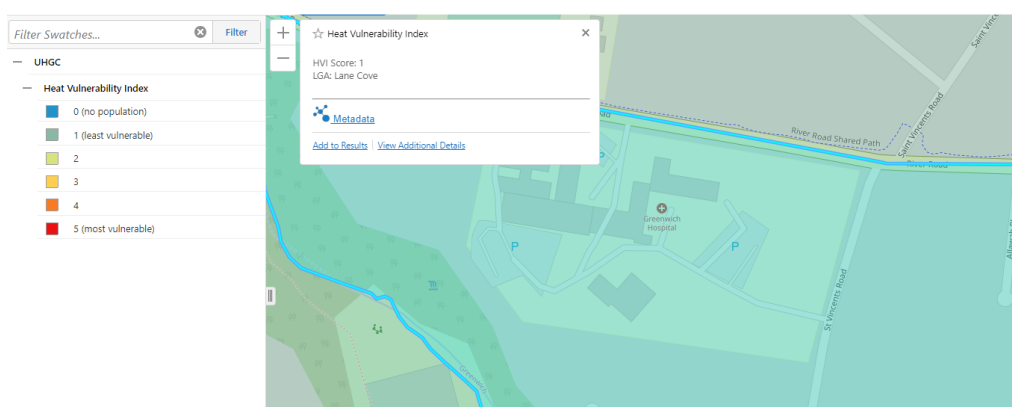
Statistic Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	An.
<b>Maximum temperature</b>													
Mean maximum temperature (Degrees C)	27.7	27.4	25.9	23.4	20.3	17.4	17.1	18.5	21.1	23.3	24.8	27.1	22.8
Highest temperature (Degrees C)	41.5	41.4	40.7	33.5	28.5	24.8	26.0	30.1	34.4	39.1	42.0	43.1	43.1
Mean number of days >= 35 Degrees C	1.9	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	2.0	6.7
<b>Minimum temperature</b>													
Mean minimum temperature (Degrees C)	16.9	16.9	15.2	12.0	9.2	6.5	4.9	5.7	7.8	10.8	13.0	15.6	11.2
Lowest temperature (°C)	8.5	8.9	6.1	2.5	0.3	-1.7	-3.5	-1.1	0.1	0.9	1.2	6.5	-3.5
Mean number of days <= 2 Degrees C	0.0	0.0	0.0	0.0	0.4	2.6	6.3	4.0	0.6	0.0	0.0	0.0	13.9
<b>Rainfall</b>													
Mean rainfall (mm)	118.8	143.0	143.9	104.5	77.9	119.3	55.6	59.7	59.0	86.4	88.7	84.3	1123.8
Highest rainfall (mm)	369.6	655.4	394.0	562.4	345.4	430.2	214.8	398.6	219.0	305.6	355.6	274.0	1951.4
Mean number of days of rain ≥ 25 mm	1.3	1.5	1.6	1.3	0.8	1.1	0.5	0.6	0.5	0.8	0.9	0.9	11.8
<b>Solar &amp; Cloudy Days</b>													
Mean daily solar exposure (MJ/m2)	22.2	19.4	16.3	13.6	10.4	8.7	9.9	13.1	16.7	19.6	21.3	22.7	16.2
Mean number of cloudy days	11.3	12.7	12.9	7.8	9.9	11.1	6.3	6.3	7.4	11.8	11.5	11.2	120.2

## 2.2 PAST EXTREME EVENTS

Extreme events that have impacted a site in the past are indicative of possible extreme events that will impact the site in the future. The identification of past extreme events will help highlight the climate risks that should be the focuses of this risk assessment.

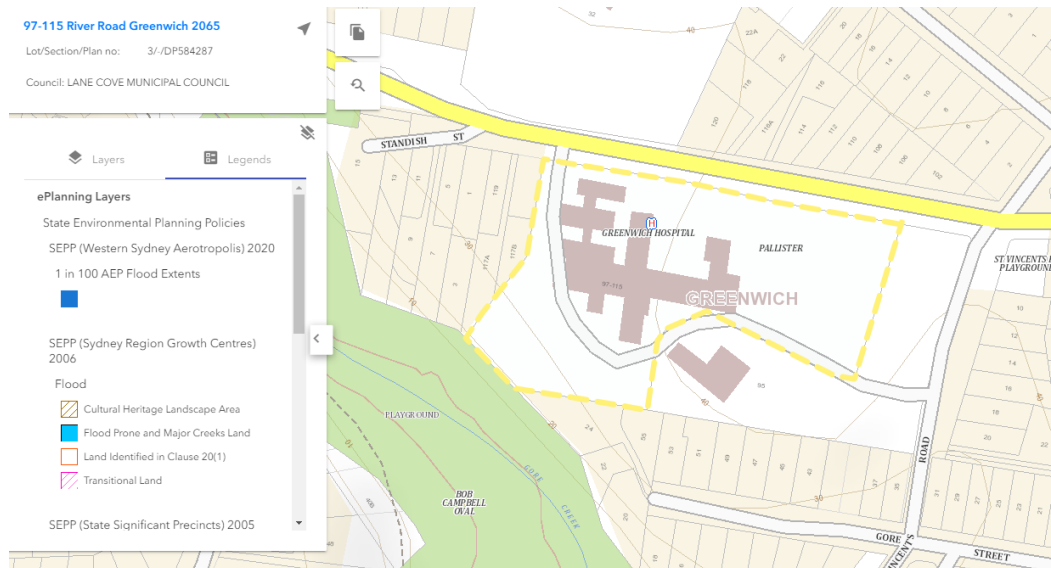
- Bushfire Past Events – Please refer to Travers’s *“Bushfire Protection Assessment for Proposed Greenwich Hospital Redevelopment”*
- Heatwaves – A heatwave is defined as three or more days of high maximum and minimum temperatures that are unusual for that location. Over the period 1911–2013, heatwaves in parts of NSW have become longer, hotter and occur more often [Source: AdaptNSW Heatwaves Climate Change Impact Snapshot]. Hotter and more frequent heatwaves will contribute to the risk of bushfires. Research shows a link between excessive heat and childhood emergency department attendances for diseases such as asthma, fever, gastroenteritis, and electrolyte imbalances.

Studies have also shown that staff performance can be impacted by higher temperatures. Warm buildings may decrease interest and alertness, distracting staffs and other workers. In hotter buildings, headaches and heat exhaustion symptoms may develop that can hinder performance. High temperatures may be accompanied by higher levels of humidity. Increased humidity can cause drowsiness in staffs. Studies have shown concentration is lower in humid, hot environments. The NSW Heat Vulnerability Index (HVI) dataset identifies the site currently as low/medium vulnerability to the adverse effects of urban heat. [Source: <https://climatechange.environment.nsw.gov.au/Impacts-of-climate-change/Heat/Urban-heat>]. The site location has Heat Vulnerability Index of 1.0 which represents low risk to have impact from heatwaves.



Heat Vulnerability Index Map Viewer

- Storms/Gustier Wind – Thunderstorms are the most common type of storms in New South Wales, causing more damage than any other short duration weather event. They are most likely to hit Sydney from October to March. They can last from 10 minutes to several hours, with very strong winds, heavy rain and hail causing flash flooding, power outages and damage to property. Historically, this area has experienced low rainfall intensity for 60minute 1:100yr Storm. Predicted to receive 74.1 mm, or up to 455 mm over 3 days. [Source: Bureau of Meteorology <http://www.bom.gov.au/water/designRainfalls/>]
- Floods/Extreme Rain – No known exposure to flood events. The development site is not within Flood Planning Area (below). [Source: NSW Planning Portal]



Flood Plan – NSW Planning Portal

- Extended drought periods – The site is identified as the “Non-Drought” area and no historical drought events have been found. [Source: NSW Combined Drought Indicator]

## 2.3 PROJECT SPECIFIC RISK STATEMENTS

Based on the project’s baseline climatic characteristics and past extreme events, the following project specific climate risk statements are formulated:

- Hotter and dryer conditions causing increase in the frequency and/or severity of bushfire.
- Higher maximum temperatures and more humid conditions causing increase in frequency and/or duration of extreme heat days (over 35 °C).

## 3 CLIMATE CHANGE SCENARIOS AND IMPACTS

### 3.1 REGIONAL OVERVIEW

The subject site is located within the East Coast South sub-cluster as defined by the CSIRO and Australian Government.



*East Coast South sub-cluster*

The East Coast south sub-cluster comprises Natural Resource Management (NRM) regions in the central part of the eastern seaboard of Australia. The area encompasses important headwater catchments for a high proportion of Australia's population.

The sub-cluster area has a predominantly sub-tropical climate, with regional variations such as some temperate influences in the south.

Key projection messages for this sub-cluster:

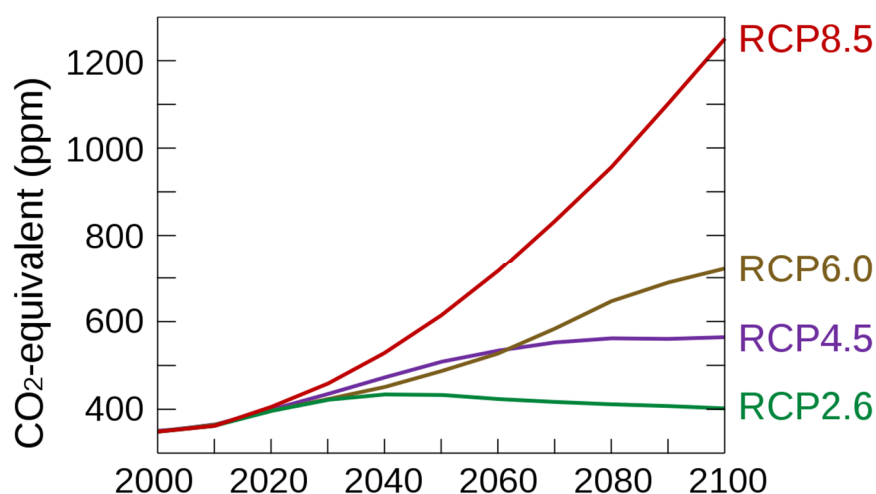
- Average temperatures will continue to increase in all seasons (very high confidence).
- More hot days and warm spells are projected with very high confidence. Fewer frosts are projected with high confidence.
- Temperatures have increased over the past century, with the rate of warming higher since 1960. Mean temperature increased between 1910 and 2013 by around 0.8°C. The recent decades have been the warmest on record for both daily minimum and daily maximum temperatures in the cluster.
- For near future (2030), the annual averaged warming across all emissions scenarios is projected to be around 0.5 to 1.3°C above the climate of 1986 – 2005.
- By late in the century (2090), for a high emission scenario (RCP8.5) and projected range of warming is 2.9 to 4.6°C. Under an intermediate scenario (RCP4.5) the projected warming is 1.3 to 2.5°C.
- Decreases in winter rainfall are projected with medium confidence. Other changes are possible but unclear.



- Increased intensity of extreme rainfall events is projected, with high confidence.
- Mean sea level will continue to rise and height of extreme sea-level events will also increase (very high confidence).
- A harsher fire-weather climate in the future (high confidence).
- On annual and decadal basis, natural variability in the climate system can act to either mask or enhance any long-term human induced trend, particularly in the next 20 years and for rainfall.

### 3.2 REPRESENTATIVE CONCENTRATION PATHWAY

In order to source relevant climate projection, appropriate Representative Concentration Pathway (RCPs) based on the latest Intergovernmental Panel on Climate Change (IPCC) report are chosen. The RCPs provide plausible climate futures that may eventuate over the coming years. There are four pathways: RCP8.5, RCP6, RCP4.5, RCP2.6, where the numbers of each RCP refer to the amount of radiative forcing produced by greenhouse gases in 2100.



*IPCC Representative Concentration Pathway*

The **RCP 8.5** scenario has been selected as one future climate projection for this assessment as it is the most conservative pathway and because current emissions are tracking close to RCP 8.5. RCP 8.5 reflects a future with less curbing of emissions and continued increase in fossil fuel use. It is the generally taken as the basis for worst-case climate change scenarios.

The **RCP 4.5** is chosen to represent a stabilisation pathway in which lower emissions is achieved by application of some mitigation strategies and technologies. RCP 4.5 reflects a future where emissions peak around 2040, and the CO<sub>2</sub> concentration reaches 540 ppm by 2100.

### 3.3 PROJECTION TIME SCALE

The lifespan of the project components were considered to determine the appropriate projection time scale. Based on components design life of health care facilities, the time series that is selected to understand the future climate impacts across the project's life are **2030** and **2070**.



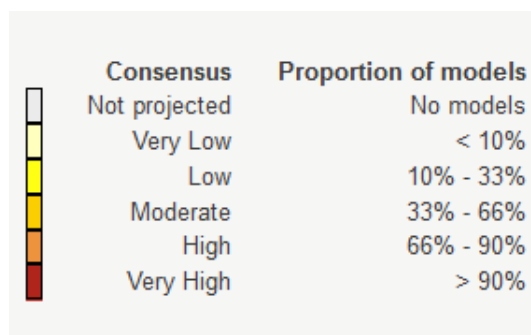
### 3.4 CLIMATE VARIABLES OF INTEREST

Based on the project's characteristics, the climate variables of interest for this site are:

Events	Variables	Key Cases
Bushfires	Mean surface temperature and rainfall (Summer)	"Best Case": Climate Future with the least increase in mean surface temperature and the least decrease (or most increase) in rainfall (shorthand: "coolest and wettest")  "Worst Case": Climate Future with the greatest increase in mean surface temperature and the greatest decrease (or least increase) in rainfall (shorthand: "hottest and driest")
Extreme heat days	Maximum daily temperature and humidity (Annual)	"Best Case": Climate Future with the least increase in maximum daily temperature and the least increase (or most decrease) in humidity (shorthand: "coolest and least humid")  "Worst Case": Climate Future with the greatest increase in maximum daily temperature and the greatest increase (or least decrease) in humidity (shorthand: "hottest and most humid")

### 3.5 CLIMATE FUTURE PROJECTIONS

The series of climate futures matrices representing the combination of time periods and greenhouse gas scenarios and classified by the combined changes of the climate variables identified above are provided in table below. All climate future matrices are sourced from CSIRO and Bureau of Meteorology, Climate Change in Australia website - [www.climatechangeinaustralia.gov.au](http://www.climatechangeinaustralia.gov.au), cited 22/06/2021.



*Colour legend of climate future projection consensus levels*

### 3.5.1 SUMMER MEAN SURFACE TEMPERATURE AND RAINFALL MATRICES (FOR BUSHFIRES)

East Coast Climate Futures		Year																																																													
		2030	2070																																																												
Emissions Scenarios	RCP 4.5	<div>Mean Surface Temperature</div> <table><tr><td></td><td>SW</td><td>W</td><td>H</td><td>MH</td></tr><tr><td>Rainfall MW</td><td></td><td></td><td></td><td></td></tr><tr><td>W</td><td></td><td></td><td></td><td></td></tr><tr><td>LC</td><td></td><td></td><td></td><td></td></tr><tr><td>D</td><td></td><td></td><td></td><td></td></tr><tr><td>MD</td><td></td><td></td><td></td><td></td></tr></table>		SW	W	H	MH	Rainfall MW					W					LC					D					MD					<div>Mean Surface Temperature</div> <table><tr><td></td><td>SW</td><td>W</td><td>H</td><td>MH</td></tr><tr><td>Rainfall MW</td><td></td><td></td><td></td><td></td></tr><tr><td>W</td><td></td><td></td><td></td><td></td></tr><tr><td>LC</td><td></td><td></td><td></td><td></td></tr><tr><td>D</td><td></td><td></td><td></td><td></td></tr><tr><td>MD</td><td></td><td></td><td></td><td></td></tr></table>		SW	W	H	MH	Rainfall MW					W					LC					D					MD				
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### 3.5.2 PROJECTED CLIMATE SCENARIOS FOR BUSHFIRES

Case	2030 Climate Future		2070 Climate Future	
	RCP 4.5	RCP 8.5	RCP 4.5	RCP 8.5
<b>"Best"</b> Coolest and wettest	Warmer and much wetter, slightly warmer and wetter (Consensus: Very low)	Warmer and much wetter, slightly warmer and wetter (Consensus: Low and Very low)	Warmer and much wetter (Consensus: Very low)	Hotter and much wetter (Consensus: Low)
<b>"Worst"</b> Hottest and driest	Hotter and much drier (Consensus: Very low)	Hotter and drier, warmer and much wetter (Consensus: Very low and low)	Hotter and much drier (Consensus: Low)	Much hotter and much drier (Consensus: Low)
<b>"Maximum consensus"</b>	Warmer and wetter to drier (Consensus: Low)	Warmer and much wetter to much drier (Consensus: Low)	Warmer and much wetter or little change, hotter and wetter to much drier (Consensus: Low)	Hotter and much wetter to drier, much hotter and much drier (Consensus: Low)

The projected climate scenarios indicate a summer that will be warmer in the near future. There is no strong consensus whether rainfall will become wetter or drier in the near future but hotter temperature may impact on the risks of bushfire event.

### 3.5.3 ANNUAL MAXIMUM DAILY TEMPERATURE AND HUMIDITY MATRICES (FOR EXTREME HOT DAYS)

East Coast Climate Futures		Year																																																													
		2030	2070																																																												
Emissions Scenarios	RCP 4.5	<div>Maximum Daily Temperature</div> <table><tr><td></td><td>SW</td><td>W</td><td>H</td><td>MH</td></tr><tr><td>LI</td><td></td><td></td><td></td><td></td></tr><tr><td>SI</td><td></td><td></td><td></td><td></td></tr><tr><td>NC</td><td></td><td></td><td></td><td></td></tr><tr><td>SD</td><td></td><td></td><td></td><td></td></tr><tr><td>LD</td><td></td><td></td><td></td><td></td></tr></table>		SW	W	H	MH	LI					SI					NC					SD					LD					<div>Maximum Daily Temperature</div> <table><tr><td></td><td>SW</td><td>W</td><td>H</td><td>MH</td></tr><tr><td>LI</td><td></td><td></td><td></td><td></td></tr><tr><td>SI</td><td></td><td></td><td></td><td></td></tr><tr><td>NC</td><td></td><td></td><td></td><td></td></tr><tr><td>SD</td><td></td><td></td><td></td><td></td></tr><tr><td>LD</td><td></td><td></td><td></td><td></td></tr></table>		SW	W	H	MH	LI					SI					NC					SD					LD				
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### 3.5.4 PROJECTED CLIMATE SCENARIOS FOR HEATWAVES

Case	2030 Climate Future		2070 Climate Future	
	RCP 4.5	RCP 8.5	RCP 4.5	RCP 8.5
<b>"Best"</b> Coolest and wettest	Slightly warmer and small increase (Consensus: Very low)	Warmer and small increase (Consensus: Low)	Hotter and small increase, warmer and no change (Consensus: Very low and low)	Hotter and small increase (Consensus: Low)
<b>"Worst"</b> Hottest and driest	Warmer and small decrease (Consensus: Low)	Hotter and small decrease (Consensus: Very low)	Hotter and small decrease (Consensus: Moderate)	Much hotter and small decrease (Consensus: Low)
<b>"Maximum consensus"</b>	Warmer and no change (Consensus: Moderate)	Warmer and small decrease (Consensus: Moderate)	Hotter and small decrease (Consensus: Moderate)	Hotter and small increase to small decrease, much hotter and small decrease (Consensus: Low)

The projected climate scenarios indicate the max daily temperature that will be warmer in the near future and the humidity has small change or no change. In these projected scenarios, the risk of more extreme hot days will be increased.

## 4 CLIMATE RISK ASSESSMENT

The qualitative descriptions used in the risk assessment to categorise risks as low, medium, high and extreme depending on the likelihood and consequence are in accordance with the AS 5334 – 2013 Climate Change Adaptation for Settlements and Infrastructure – A risk based approach. Details of the qualitative descriptions are provided in Appendix A.

### 4.1 RISK ASSESSMENT TABLE

Climate Variables and Risks	Climate Projections	Potential Climate Impacts	Pre-adaptation Actions						Proposed Adaptation Actions	Post-adaptation Actions						Summary of how measures reduce risk
			2030			2070				2030			2070			
			C	L	Rating	C	L	Rating		C	L	Rating	C	L	Rating	
Hotter and dryer conditions resulting in higher frequency and/or severity of bushfire events	The projected climate scenarios indicate a summer that will be warmer in the near future. There is no strong consensus whether rainfall will become wetter or drier in the near future but hotter temperature may impact on the risks of bushfire event.	DIRECT: Increased bushfires risk due to warmer conditions may cause direct damage to the facilities.	Major	Unlikely	Medium	Major	Moderate	High	Investigate locations of vulnerability, remove potential fuel sources surrounding the building such as removing dead vegetation as part of ongoing landscaping/maintenance works.  Use of non-combustible construction materials as per regulation.  Put in place evacuation plan in case of fire threatening building.	Major	Unlikely	Medium	Major	Unlikely	Medium	The risk and impact of bushfire on the building will be reduced if good management practice are implemented.  A properly considered evacuation plan will minimise the risks to occupants of the building.
		DIIRECT: Increased bushfires risk due to warmer conditions may increase exposure to smoke and particulate for staff and visitors, impacting health.	Minor	Moderate	Low	Minor	Moderate	Low	Ensure building is well sealed to minimise risks of smoke infiltration.  Consider pressurised staircase and Put in place smoke hazard management strategies.	Minor	Unlikely	Low	Minor	Unlikely	Low	The risk and impact of smoke on occupants will be reduced if good management practice are implemented.
		INDIRECT: increased bushfires risk may damage power infrastructure, disrupting operation of facility.	Moderate	Moderate	Medium	Moderate	Moderate	Medium	Backup generator to provide power to safety critical services.  On-site renewable energy to reduce the maximum demand from the grid.  Ensure critical data and information can be accessed offline.	Minor	Moderate	Low	Minor	Moderate	Low	The alternative power supply and ability to access information offline will facilitate the ongoing operation of the facility.

Hotter and dryer conditions resulting in higher frequency and/or duration of extreme hot days (over 35 degree Celsius)	The projected climate scenarios indicate the max daily temperature that will be warmer in the near future and the humidity has small change or no change. In these projected scenarios, the risk of more extreme hot days will be increased.	DIRECT: Extreme heat will increase demand on HVAC system and may impact the ability of HVAC system to maintain thermal comfort of occupants due to capacity constraints.	Major	Unlikely	Medium	Major	Moderate	High	<p>Incorporate passive thermal design principles in the design and construction of the building such as appropriate levels of shading devices thermal insulation.</p> <p>Provide light coloured roofs to reduce heat gains via the roof and help mitigate urban heat island effect.</p> <p>Provide additional photovoltaic panels to provide renewable electricity to help offset the additional HVAC electricity demand.</p> <p>When replacing HVAC units at the end of service life, consider upsizing capacity of units in line with change in climatic conditions.</p>	Major	Unlikely	Medium	Major	Unlikely	Medium	<p>The incorporation of passive thermal design principles will help mitigate extreme heat risks in the near future.</p> <p>Appropriate upgrade of HVAC equipment at their end of their service life will help ensure system will be capable of handling more extreme temperatures in the far future.</p>
		DIRECT: Extreme heat may impact the performance of electrical equipment and infrastructures due to temperature to exceeding design limits.	Minor	Unlikely	Low	Minor	Moderate	Low	<p>In the near future, current temperature ratings for electrical equipment should be able to cope with projected temperature increase relevant to the components design life.</p> <p>In the far future, equipment should be gradually upgraded as required to cope with more extreme conditions.</p>	Minor	Unlikely	Low	Minor	Unlikely	Low	<p>Appropriate upgrade of electrical equipment at their end of their service life will help ensure system will be capable of handling more extreme temperatures in the far future.</p>

## 4.2 DESIGN RESPONSES TO HIGH AND EXTREME RISKS

The risk assessment identified 2 high risk for the proposed development by 2070 (zero high risks by 2030). No extreme risks were identified. The design responses to the high risk are summarised as follows:

- Higher average surface temperature and less rainfall conditions causing an increase in the frequency and/or severity of bushfire events directly damaging the building. This risk is mitigated by ensuring non-combustible building elements are used in the fabric of the building and by implementing good management practice to remove potential fuel source around the building once the building is in operation.
- Higher maximum daily temperature and lower humidity conditions resulting in higher frequency and/or duration of extreme hot days resulting in insufficient capacity of the HVAC system to maintain thermal comfort. This risk is mitigated by the incorporation of passive thermal principles such as appropriate external shades and thermal insulation and by upgrading the capacity of the HVAC system once the current system has reached the end of its service life.



## 5 CONCLUSION

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A Climate Adaptation Plan (CAP) report has been prepared for the proposed development of HammondCare Greenwich located at 97-115 River Road, Greenwich, NSW, 2065.

In particular, this CAP specifically addressed:

- The details of stakeholder consultation that was undertaken during plan preparation in Section 1.3;
- The project's characteristics in Section 2;
- The assessment of climate change scenarios and impacts on the project in see Section 3;
- The potential direct and indirect climate change impacts in Section 4;
- The potential risks for the project and people in Section 4; and
- The actions to reduce 'high' and 'extreme' risks identified in Section 4.

The impacts of climate change were assessed across two time scales (2030 & 2070) and two Representative Concentration Pathways (RCP4.5 & RCP 8.5). Climate Futures matrices were used to determine the key climate projections based on multiple climate variables for this risk assessment. The key climate projections were used to inform the climate risk assessment.

The results of the climate risk assessment identified two high risks items pre-adaptation. These high risks were mitigated to medium risks by the proposed adaptation actions.

## APPENDIX A – RISK ASSESSMENT FRAMEWORK

The following risk assessment framework is used to determine consequence and likelihood ratings. Based on these ratings, the risk rating has been determined.

### CONSEQUENCE CRITERIA

Consequence descriptor	Adaptive capacity (see Note 1)	Infrastructure, service	Social/cultural	Governance	Financial (see Note 2)	Environmental (see Note 3)	Economy (see Note 4)
Insignificant	No change to the adaptive capacity	No infrastructure damage, little change to service	No adverse human health effects	No changes to management required	Little financial loss or increase in operating expenses	No adverse effects on natural environment	No effects on the broader economy
Minor	Minor decrease to the adaptive capacity of the asset. Capacity easily restored	Localized infrastructure service disruption No permanent damage. Some minor restoration work required Early renewal of infrastructure by 10–20% Need for new/modified ancillary equipment	Short-term disruption to employees, customers or neighbours Slight adverse human health effects or general amenity issues	General concern raised by regulators requiring response action	Additional operational costs Financial loss small, <10%	Minimal effects on the natural environment	Minor effect on the broader economy due to disruption of service provided by the asset
Moderate	Some change in adaptive capacity. Renewal or repair may need new design to improve adaptive capacity	Limited infrastructure damage and loss of service Damage recoverable by maintenance and minor repair Early renewal of infrastructure by 20–50%	Frequent disruptions to employees, customers or neighbours. Adverse human health effects	Investigation by regulators Changes to management actions required	Moderate financial loss 10–50%	Some damage to the environment, including local ecosystems. Some remedial action may be required	High impact on the local economy, with some effect on the wider economy

(continued)

Consequence descriptor	Adaptive capacity (see Note 1)	Infrastructure, service	Social/cultural	Governance	Financial (see Note 2)	Environmental (see Note 3)	Economy (see Note 4)
Major	Major loss in adaptive capacity. Renewal or repair would need new design to improve adaptive capacity	Extensive infrastructure damage requiring major repair Major loss of infrastructure service Early renewal of infrastructure by 50–90%	Permanent physical injuries and fatalities may occur Severe disruptions to employees, customers or neighbours	Notices issued by regulators for corrective actions Changes required in management. Senior management responsibility questionable	Major financial loss 50–90%	Significant effect on the environment and local ecosystems. Remedial action likely to be required	Serious effect on the local economy spreading to the wider economy
Catastrophic	Capacity destroyed, redesign required when repairing or renewing asset	Significant permanent damage and/or complete loss of the infrastructure and the infrastructure service Loss of infrastructure support and translocation of service to other sites Early renewal of infrastructure by >90%	Severe adverse human health effects, leading to multiple events of total disability or fatalities Total disruptions to employees, customers or neighbours Emergency response at a major level	Major policy shifts Change to legislative requirements Full change of management control	Extreme financial loss >90%	Very significant loss to the environment. May include localized loss of species, habitats or ecosystems Extensive remedial action essential to prevent further degradation. Restoration likely to be required	Major effect on the local, regional and state economies

#### NOTES:

- 1 Adaptive capacity relates to the ability of the infrastructure element and/or organization to adapt/change/cope with change in the climate change variable.
- 2 Financial loss will be relative to the infrastructure element being considered (i.e. a single building, coastal town, rail system). Dollar values need to include replacement cost for the infrastructure item and financial loss/costs relating to the loss of the service provided by the infrastructure item.
- 3 While the term 'environment' can include both man-made and natural systems, in this Standard 'environment' is limited to the natural environment outside the asset being considered.
- 4 Economy refers to the local economy (e.g. town or region), the state economy, or the economy of Australia as a whole. Significance of this measure will depend on the asset being considered.

## LIKELIHOOD CRITERIA

Rating	Descriptor	Recurrent or event risks	Long term risks
Almost certain	Could occur several times per year	Has happened several times in the past year and in each of the previous 5 years <i>or</i> Could occur several times per year	Has a greater than 90% chance of occurring in the identified time period if the risk is not mitigated
Likely	May arise about once per year	Has happened at least once in the past year and in each of the previous 5 years <i>or</i> May arise about once per year	Has a 60–90% chance of occurring in the identified time period if the risk is not mitigated
Possible	Maybe a couple of times in a generation	Has happened during the past 5 years but not in every year <i>or</i> May arise once in 25 years	Has a 40–60% chance of occurring in the identified time period if the risk is not mitigated
Unlikely	Maybe once in a generation	May have occurred once in the last 5 years <i>or</i> May arise once in 25 to 50 years	Has a 10–30% chance of occurring in the future if the risk is not mitigated
Rare	Maybe once in a lifetime	Has not occurred in the past 5 years <i>or</i> Unlikely during the next 50 years	May occur in exceptional circumstances, i.e. less than 10% chance of occurring in the identified time period if the risk is not mitigated

## RISK PRIORITY LEVELS

Likelihood	Consequences				
	Insignificant	Minor	Moderate	Major	Catastrophic
Almost certain	L	M	H	E	E
Likely	L	M	M	H	E
Moderate	L	L	M	H	E
Unlikely	L	L	M	M	H
Very unlikely	L	L	L	M	M

### LEGEND:

E = Extreme risk, requiring immediate action.

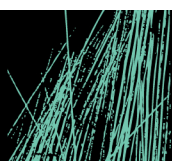
H = High risk issue requiring detailed research and planning at senior management level.

M = Moderate risk issue requiring change to design standards and maintenance of assets.

L = Low risk issue requiring action through routine maintenance of assets.

## APPENDIX C: NCC2019 SECTION J PART J1 STATEMENT OF COMPLIANCE

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ABN 48 612 666 172

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Level 23, 101 Miller St  
North Sydney NSW 2060

PO Box 3  
North Sydney NSW 2059  
Ph (02) 94371000

5 August 2022

TSA Management  
Level 15, 207 Kent Street,  
Sydney, NSW 2000

Attention: **A. Lisney**

Dear Alex,

### NCC 2019 Section J Part J1 Statement of Compliance

**SUBJECT PREMISE:** HammondCare Greenwich, at Greenwich NSW 2065

This NCC 2019 Section J Part J1 statement has been prepared to demonstrate design compliance of the proposed development of HammondCare Greenwich, located at Greenwich NSW 2065, against the requirements of the National Construction Code 2019 Volume One Amendment 1 Section J Part J1 Building Fabric.

<b>NCC Climate Zone</b>	Zone 5
<b>NCC Building Classification &amp; Use</b>	Class 5, Class 7a, Class 9a and Class 9c
<b>Architectural Drawings</b>	Bickerton Masters Project No. 01605

Title	Drawing No	Revision
H&C – Overall Plan- L1	AR-HST-0100	P5
H&C – Overall Plan- L2	AR-HST-0101	P5
H&C – Overall Plan- L3	AR-HST-0102	P5
H&C – Overall Plan- L4	AR-HST-0103	P5
H&C – Overall Plan- L5	AR-HST-0104	P5
H&C – Overall Plan- L6	AR-HST-0105	P5
H&C – Overall Plan- L7	AR-HST-0106	P5
H&C – Overall Plan- L8	AR-HST-0107	P5
H&C – Overall Plan- L9	AR-HST-0108	P5
H&C – Overall Plan- L10	AR-HST-0109	P5
H&C – Overall Plan- L11 / Roof	AR-HST-0110	P5
SLN-General Arrangement Plan – L1	AR-SLN-0200	P5
SLN-General Arrangement Plan – L2	AR-SLN-0201	P5
SLN-General Arrangement Plan – L3	AR-SLN-0202	P5
SLN-General Arrangement Plan – L4	AR-SLN-0203	P5
SLN-General Arrangement Plan – L5	AR-SLN-0204	P5

SLN-Roof Plan	AR-SLN-0205	P5
SLS-General Arrangement Plan – L1	AR-SLS-0200	P5
SLS-General Arrangement Plan – L2	AR-SLS-0201	P5
SLS-General Arrangement Plan – L3	AR-SLS-0202	P5
SLS-General Arrangement Plan – L4	AR-SLS-0203	P5
SLS-General Arrangement Plan – L5	AR-SLS-0204	P5
SLS-General Arrangement Plan – L6	AR-SLS-0205	P5
SLS-Roof Plan	AR-SLS-0206	P5

As per the JV3 Verification Method Provisions of **NCC 2019** Volume One Amendment 1, compliance with Part J1 can be met subject to the following specifications:

### Building Fabric

(Health Building, Senior Living South & Senior Living North)

Elements	Total Construction R-value
Envelope Roof/Ceiling	R4.1 (Downwards, Light Colour, Solar Absorptance no more than 0.40)
Envelope Walls	R1.6
Envelope Floors (Slab on Ground/Above Basement Carpark)	No requirement
Envelope Floors (Other Areas)	R2.2 (Downwards)

Note: The contractors must provide Total R-value Breakdown Calculations following AS/NZS 4859.2:2018, with thermal bridging allowance using NZS 4214:2006, confirming the as-built has met Section J requirements.

JV3 modelling results demonstrating compliance are attached as Attachment A. The tabulated PMV results demonstrating design compliance to the performance criteria are attached as Attachments B, C & D. Building fabric requirement markups showing insulation locations are attached as Attachments E, F & G.

### Glazed Elements

(Health Building)

Location	Glazing Type	Window Assembly (Glass & Frame)		Description
		Total U-value	Total SHGC	
External Vertical Glazing Elements	Awning & Casement	5.4	0.45	SGU Low-e/DGU Neutral/ or the like
	Sliding & Fixed	4.7	0.48	
External Horizontal Glazing Element	Skylight	3.9	0.29	Double Glazed Skylights or the like

(Senior Living South & Senior Living North)

Location	Glazing Type	Window Assembly (Glass & Frame)		Description
		Total U-value	Total SHGC	
External Vertical Glazing Elements	Awning & Casement	6.0	0.45	SGU Low-e/DGU Neutral/ Clear or the like
	Sliding & Fixed	4.7	0.55	

Note: contractor must also provide the Compliance Certificate or Performance Label in accordance with AS 2047:2014 from the glazing supplier confirming the thermal performance (Total U-value and Total SHGC) of all installed glazing has met Section J requirements.



JV3 modelling results demonstrating compliance are attached as Attachment A. The tabulated PMV results demonstrating design compliance to the performance criteria are attached as Attachment B.

JHA recommends any design changes to be reviewed and approved before documentation.

#### **Additional Section J Compliance Notes**

JHA recommend the following general construction requirements from Section J of the NCC2019 to be included to the architectural specification and drawings to ensure compliance.

##### **Part J1 – Building Fabric**

- J1.2 (a-e) Thermal Construction – general installation requirements for insulations

Full Name of Designer:	Gary Tang
Qualifications:	B.Eng, M.Eng.Sc
Address of Designer:	JHA Level 23, 101 Miller Street, NORTH SYDNEY NSW 2060
Business Telephone No:	(02) 9437 1000
Name of Employer:	JHA

Yours sincerely,

A handwritten signature in black ink that reads 'Gary Tang'.

Gary Tang  
Sustainability Engineer

\* This report is prepared for the nominated recipient only and relates to the specific scope of work and agreement between JHA and the client (the recipient). It is not to be used or relied upon by any third party for any purpose.

## Attachment A – JV3 Modelling Results:

Thermal modelling was undertaken using the modelling software, IES VE, to demonstrate the compliance with the Performance Requirement for JP1, Section J NCC 2019, Volume One, Amendment 1. Energy simulation was conducted in accordance with NCC 2019, Volume One JV3 requirements and the calculation method of the ABCB Protocol.

### Health Building

Annual Greenhouse Gas Emission (Health Building)	(kgCO <sub>2</sub> -e/m <sup>2</sup> .annum)
Reference Building	94.77
Proposed Building JV3(a)(ii)	94.76

### Senior Living North

Annual Greenhouse Gas Emission (Senior Living North)	(kgCO <sub>2</sub> -e/m <sup>2</sup> .annum)
Reference Building	118.00
Proposed Building JV3(a)(ii)	115.78

### Senior Living South

Annual Greenhouse Gas Emission (Senior Living South)	(kgCO <sub>2</sub> -e/m <sup>2</sup> .annum)
Reference Building	114.90
Proposed Building JV3(a)(ii)	114.54

The Annual Greenhouse Gas Emission of the Proposed Building is less than Annual Greenhouse Gas Emission of Reference Building.

JV3 (a) (ii) requires that in the proposed building, a thermal comfort level of between a Predicted Mean Vote (PMV) of -1 to +1 is achieved across not less than 95% of the floor area of all occupied zones for not less than 98% of the annual hours of operation of the building. The average percentage of occupied hours where a PMV of +/- 1 for each proposed block is shown below:

- HammonCare Greenwich (Health Building) - 100 % of the occupied hours
- HammonCare Greenwich (Senior Living North) - 99.8 % of the occupied hours
- HammonCare Greenwich (Senior Living South) - 100 % of the occupied hours
- 

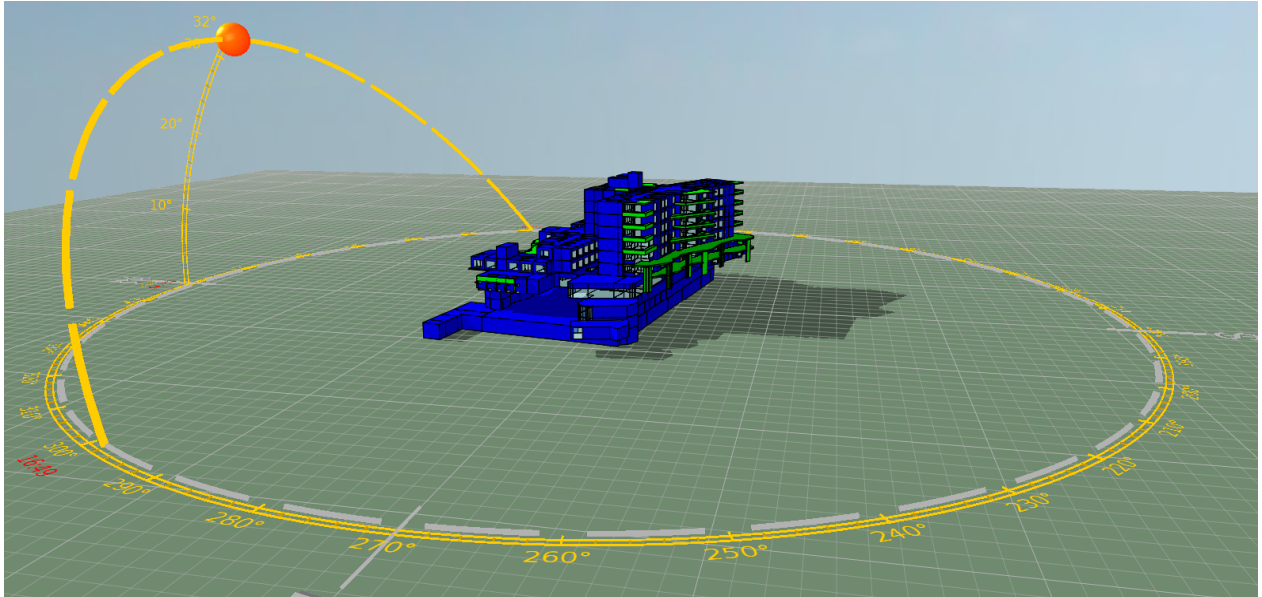
The PMV modelling results demonstrate that the proposed blocks meet the above thermal comfort level requirement for 98% of occupied hours for individual zones.

Therefore, the Building Fabric and Glazing of the Proposed Building is compliant with JP1.

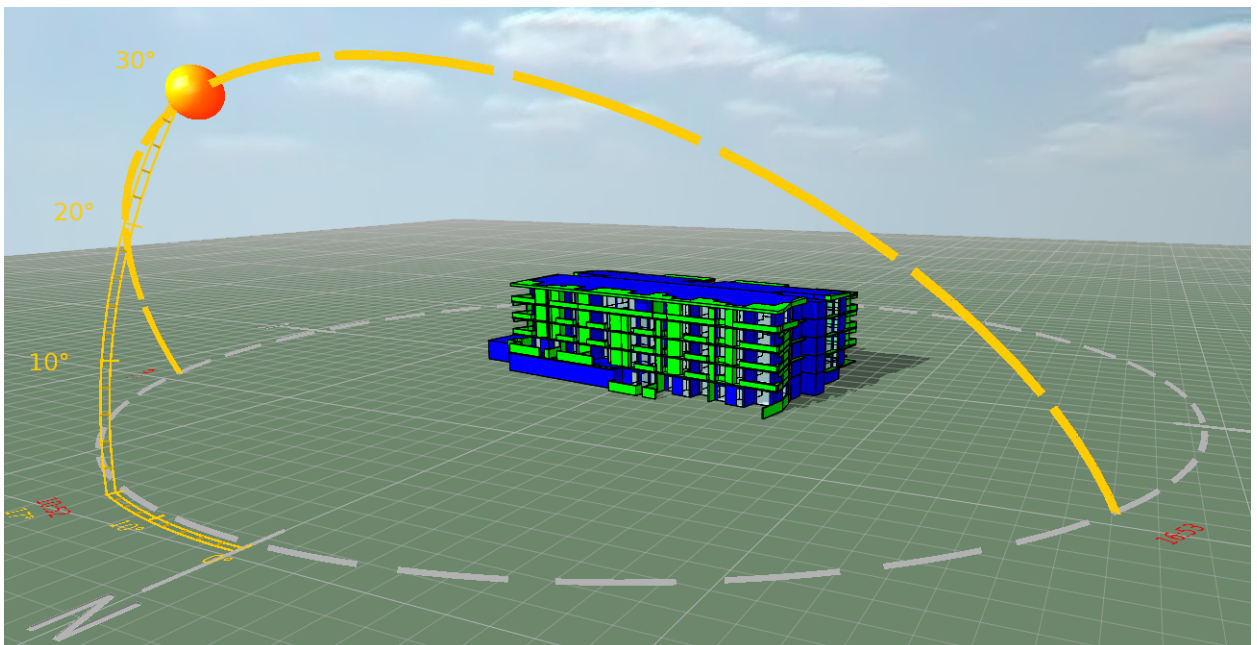


## IES Models for Energy Simulation

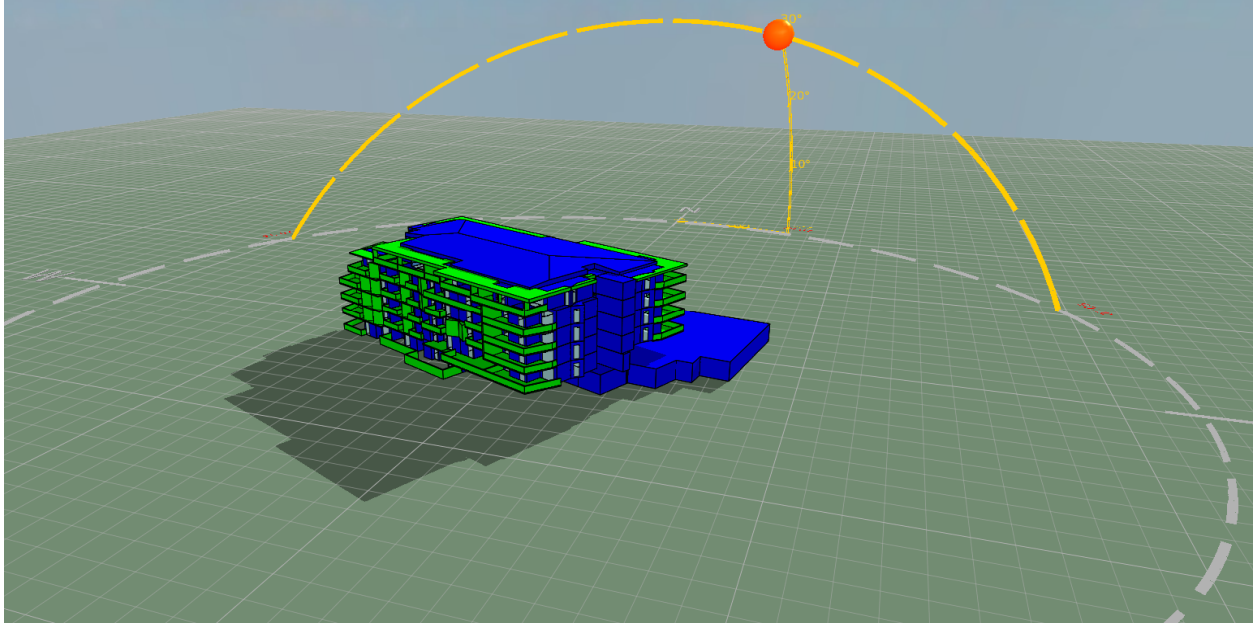
### Health Building



### Senior Living North



# Senior Living South



## MODELLING INPUTS

(Health Building, Senior Living South & Senior Living North)

Elements (Total R-value)	Reference Building	Proposed Building
Envelope Roof/Ceiling	R4.11 (SA=0.40)	R4.10 (SA=0.40)
Envelope Walls	R1.55	R1.60
Envelope Floors (Slab on Ground/Above Basement Carpark)	R2.22 (Downwards)	No Requirement
Envelope Floors (Other Areas)	R2.22 (Downwards)	R2.20 (Downwards)

## GLAZING INPUTS (Health Building)

Level	Reference Building			Proposed Building	
	Orientation	Total U-value	Total SHGC	Orientation	Glazing Input
External Vertical Glazing Elements	N	1.0	0.33	All direction	Awning & Casement Glazing:- U-value=5.4 & SHGC=0.45
	E	1.0	0.55		
	S	1.0	0.10		Sliding & Fixed Glazing:- U-value=4.7 & SHGC=0.48
	W	1.0	0.60		

Level	Reference Building		Proposed Building	
	Total U-value	Total SHGC	Total U-value	Total SHGC
External Horizontal Glazing Elements (Skylight)	3.3	0.24	3.9	0.29

## GLAZING INPUTS (Senior Living North)

Level	Reference Building			Proposed Building	
	Orientation	Total U-value	Total SHGC	Orientation	Glazing Input
External Vertical Glazing Elements	N	1.0	0.40	All direction	Awning & Casement Glazing:- U-value=6.0 & SHGC=0.45
	E	1.0	0.20		
	S	1.0	0.38		Sliding & Fixed Glazing:- U-value=4.7 & SHGC=0.55
	W	1.0	0.80		

## GLAZING INPUTS (Senior Living South)

Level	Reference Building			Proposed Building	
	Orientation	Total U-value	Total SHGC	Orientation	Glazing Input
External Vertical Glazing Elements	N	1.0	0.30	All direction	Awning & Casement Glazing:- U-value=6.0 & SHGC=0.45
	E	1.0	0.30		
	S	1.0	0.30		Sliding & Fixed Glazing:- U-value=4.7 & SHGC=0.55
	W	1.0	0.30		

## PMV SPACE CONDITIONING SET POINTS

### Summer

Period	Space	Set Point
December to February	Health Building, Senior Living South & Senior Living North	24.0°C

### Autumn

Period	Space	Set Point
March to May	Health Building, Senior Living South & Senior Living North	22.5°C

### Winter

Period	Space	Set Point
June to August	Health Building, Senior Living South & Senior Living North	21.0°C

### Spring

Period	Space	Set Point
September to November	Health Building, Senior Living South & Senior Living North	22.5°C

## PMV INPUT COMFORT PARAMETERS

### Summer

Comfort Parameters	Input Values	Description
Clothing Level (CLO)	CLO – 0.67	Light clothing
Activity Level (MET)	MET – 1.2	Light work, reading, relaxing, talking
Nominal Air Velocity (m/s)	0.15 (m/s)	-

### Autumn

Comfort Parameters	Input Values	Description
Clothing Level (CLO)	CLO – 0.97	Medium clothing
Activity Level (MET)	MET – 1.2	Light work, reading, relaxing, talking
Nominal Air Velocity (m/s)	0.15 (m/s)	-

### Winter

Comfort Parameters	Input Values	Description
Clothing Level (CLO)	CLO – 1.27	Warm clothing
Activity Level (MET)	MET – 1.2	Light work, reading, relaxing, talking
Nominal Air Velocity (m/s)	0.15 (m/s)	-

## Spring

Comfort Parameters	Input Values	Description
Clothing Level (CLO)	CLO – 0.97	Medium clothing
Activity Level (MET)	MET – 1.2	Light work, reading, relaxing, talking
Nominal Air Velocity (m/s)	0.15 (m/s)	-

*Please note: All comfort parameters suffice "ASHRAE Standard 55-2017.*

## JV3 MODELLING RESULTS

### Health Building

Component	Calculated Annual Energy Consumption	
	Reference Building with DTS reference building fabric and services	JV3 (a)(ii) Building with proposed fabric and reference building services
Heating Energy	25.11 MWh	114.28 MWh
Cooling Energy	377.59 MWh	288.27 MWh
Lighting Energy	127.85 MWh	127.85 MWh
Equipment Energy	1096.46 MWh	1096.46 MWh
Total Energy	5857.28 GJ	5856.75 GJ
Total Conditioned Area	15821.34 m <sup>2</sup>	
Greenhouse Gas Emission Factor	256 kgCO <sub>2</sub> -e/GJ	
Annual Greenhouse Gas Emission	94.77 kgCO <sub>2</sub> -e/m <sup>2</sup> .annum	94.76 kgCO <sub>2</sub> -e/m <sup>2</sup> .annum

### Senior Living North

Component	Calculated Annual Energy Consumption	
	Reference Building with DTS reference building fabric and services	JV3 (a)(ii) Building with proposed fabric and reference building services
Heating Energy	3.42 MWh	41.73 MWh
Cooling Energy	197.48 MWh	144.88 MWh
Lighting Energy	39.29 MWh	39.29 MWh
Equipment Energy	520.33 MWh	520.33 MWh
Total Energy	2737.94 GJ	2686.49 GJ
Total Conditioned Area	5939.67 m <sup>2</sup>	
Greenhouse Gas Emission Factor	256 kgCO <sub>2</sub> -e/GJ	
Annual Greenhouse Gas Emission	118.00 kgCO <sub>2</sub> -e/m <sup>2</sup> .annum	115.78 kgCO <sub>2</sub> -e/m <sup>2</sup> .annum

### Senior Living South

Component	Calculated Annual Energy Consumption	
	Reference Building with DTS reference building fabric and services	JV3 (a)(ii) Building with proposed fabric and reference building services
Heating Energy	4.87 MWh	41.68 MWh
Cooling Energy	205.58 MWh	166.11 MWh
Lighting Energy	45.71 MWh	45.71 MWh
Equipment Energy	605.32 MWh	605.32 MWh
Total Energy	3101.39 GJ	3091.82 GJ
Total Conditioned Area	6909.76 m <sup>2</sup>	
Greenhouse Gas Emission Factor	256 kgCO <sub>2</sub> -e/GJ	
Annual Greenhouse Gas Emission	114.90 kgCO <sub>2</sub> -e/m <sup>2</sup> .annum	114.54 kgCO <sub>2</sub> -e/m <sup>2</sup> .annum



## PMV MODELLING RESULTS

The tabulated PMV results demonstrating design compliance to the performance criteria are attached as Attachments B, C, & D.





## Attachment B – PMV Results (Health Building)

Predicted Mean Vote (% hours in range) - 210031 HammondCare Greenwich (Healthcare Building)												
Period	Dec-Feb			Mar-May			Jun-Aug			Sep-Nov		
Location	< -1.0	-1.0≤ & ≥1.0	> 1.0	< -1.0	-1.0≤ & ≥1.0	> 1.0	< -1.0	-1.0≤ & ≥1.0	> 1.0	< -1.0	-1.0≤ & ≥1.0	> 1.0
CLO	0.67			0.97			1.27			0.97		
MET	70			70			70			70		
Air Speed	0.15			0.15			0.15			0.15		
Temp	24.0C			22.5C			21.0C			22.5C		
Level 1,Conditioned_Lift 4	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Lift 4	0	100	0	0	100	0	0	100	0	0	100	0
Level 1,Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 1,Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Pool Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Male Amen. Change	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Fem. Amen. Change	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Chapel Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Hydrotherapy Pool	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Wellness Centre Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Rec. Gym	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Elec.	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Foyer	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Chapel	0	100	0	0	100	0	0	100	0	0	100	0
Level 1,Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 1,Conditioned_Kitchen & Parking	0	100	0	0	100	0	0	100	0	0	100	0
Level 1,Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 2,Conditioned_Multi-Purpose/Community	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Void to Pool below	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Lift 4	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Pool Plant	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Medical Records	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Void to Chapel Below	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Staff	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Atrium Void	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Lift Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3,Conditioned_Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_ST	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Shop	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Debox	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Group Therapy/ Activity Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_TR 4	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_TR 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_TR 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_TR 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C11	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C10	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C9	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C8	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C7	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C6	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C4	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_C5	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Recovery	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_SHR WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Office	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Wait / Check In	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_E.C.T	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Hold	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Procedure	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_AdL Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Treatment/Consult/Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_INT.	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Staff Toilet 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Staff Toilet 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Staff Lockers	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Staff Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Staff Lockers Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Staff Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Staff Room Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Cafe	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_1	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_1 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_2	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_2 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_3 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_3	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_4	0	100	0	0	100	0	0	100	0	0	100	0
Level 4,Conditioned_Room_4 Bath	0	100	0	0	100	0	0	100	0	0	100	0

Level 4, Conditioned, Room, 5 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 5	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 6	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 6 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Pantry	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Egress Stair 5	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, D, Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Service Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Air Lock	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Pharmacy	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 7	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 8	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 9	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 9 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 8 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 7 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Parlour	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Vestibule	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Dining and Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Lounge & Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 10	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 11	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 12	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Egress Stair 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Male Amenities	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Female Amenities	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, ACC, WC &SHR	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Lockers	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, C12	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, C3	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, C2	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, C1	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Hair & Beauty	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Multi-Purpose	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Duct	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 13 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 13	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 10 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 11 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Room, 12 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Rehab, Gym	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Green Atrium	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Staff Amen. / Lockers	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 4, Conditioned, Lift 4	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 1 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 2 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 3 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 4 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 1	0	98.8	1.2	0	99.7	0.3	0	100	0	0	99.6	0.4
Level 5, Conditioned, Room, 2	0	99.3	0.7	0	99.7	0.3	0	100	0	0	99.9	0.1
Level 5, Conditioned, Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 4	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 5	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 5 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 6 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 6	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 8 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 8	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 10 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 10	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, D, Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Therapy	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Family/Meeting	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Visitor Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Wait	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Huddle	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Ward Clerk	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Meds	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, N.U.M	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Vest.	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Lounge	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Dining & Servery	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, VEST	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Dining, Servery	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, D, Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 11	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 11 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 12 Bath	0	100	0	0	100	0	0	100	0	0	100	0

Level 5_Conditioned_Room_12	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_13 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_13	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_14	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_14 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_15 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_15	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_16 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_16	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_17	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_17 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_18 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_18	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_19 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_19	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_20 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_20	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Egress Stair 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_21 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_21	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_22	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_22 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_23 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_23	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_24	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_24 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_25	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_25 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_26 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_26	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_27	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_27 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Egress Stair 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Mech, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Pantry	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Parlour	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Vestibule	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_CLNR	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_St. WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Interview	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Public Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Passage	0	99.9	0.1	0	99.9	0.1	0	100	0	0	100	0
Level 5_Conditioned_Passage	0	99	1	0	99.7	0.3	0	100	0	0	99.9	0.1
Level 6_Conditioned_Room_5 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_6 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_8 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_12	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_12 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_13 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_13	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Egress Stair 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Bariatric Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Bariatric	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_14	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_14 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_15 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_15	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_16	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_16 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_17	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_17 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_18 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_18	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_19	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_19 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Egress Stair 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Mech, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Pantry	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Parlour	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Vestibule	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_CLNR	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_St. WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Interview	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Public Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_4 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_4	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_5	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_6	0	100	0	0	100	0	0	100	0	0	100	0

Level 6, Conditioned, Room 8	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, D. Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 7 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 7	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 9 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 9	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Pantry	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Vestibule	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Dirty Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Write Up	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Dirty Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Write Up	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 9 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 9	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, D. Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Kitchen, Dining, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 32 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 31 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 31	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 32	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 33 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 33	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 28 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 28	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 29 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 29	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 30	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Kitchen, Dining, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 24 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 23 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 23	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 24	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 25 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 25	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 20 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 20	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 21 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 21	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 22	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room 30 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 22 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 1	0	100	0	0	99.9	0.1	0	100	0	0	100	0
Level 6, Conditioned, Room 1 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 2	0	100	0	0	99.9	0.1	0	100	0	0	100	0
Level 6, Conditioned, Room 2 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 3 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 10	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 10 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 11	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Room 11 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Therapy	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Lounge	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Lounge	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, Sitting & Lounge	0	100	0	0	100	0	0	100	0	0	100	0
Level 6, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Egress Stair 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Clean St	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Gen. Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Staff Area	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Public Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Family/Meeting	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0

Level 7, Conditioned, Egress Stair 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Bariatric Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Bariatric	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_1	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_1 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_2 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_2	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_3	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_3 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_4	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_4 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_5 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_5	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_6	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_6 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Mech, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Pantry	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Parlour	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Vestibule	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, CLNR	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, St. WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Interview	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Dirty Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Write Up	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Egress Stair 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Clean St	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Gen. Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Staff Area	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Public Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Family/Meeting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Egress Stair 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Bariatric Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Bariatric	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_1 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_2 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_3	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_3 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_5	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_6 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_6	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_7	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_7 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Mech, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Pantry	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Parlour	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Vestibule	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, CLNR	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, St. WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Interview	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Dirty Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Write Up	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_5 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_4	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_4 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Kitchen, Dining, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_11 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_10 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_10	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_11	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_12 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_12	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_7 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_7	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_8 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_8	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Room_9	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 7, Conditioned, Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Kitchen, Dining, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_13 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_12 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_12	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_13	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Room_14 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10, Conditioned, Store	0	100	0	0	100	0	0	100	0	0	100	0

Level 8-10_Conditioned_Room_14	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_8 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_8	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_9 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_9	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_10	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_11	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_11 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 7_Conditioned_Room_9 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_10 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Lounge	0	100	0	0	100	0	0	100	0	0	100	0
Level 7_Conditioned_Lounge	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Egress Stair 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Clean St	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Gen. Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Staff Area	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Public Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Family/Meeting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Egress Stair 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Bariatric Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Bariatric	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_1 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_2 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_3	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_3 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_5	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_6 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_6	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_7	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_7 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Lift 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Mech, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Pantry	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_ParLOUR	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Vestibule	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_CLNR	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_St. WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Interview	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Dirty Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Write Up	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_5 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_4	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_4 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_TV Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Laundry	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Kitchen, Dining, Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_WC	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_13 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_12 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_12	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_13	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_14 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_14	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_8 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_8	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_9 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_9	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_10	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Sitting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_11	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_11 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Egress Stair 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Quiet	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Clean St	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Gen. Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Staff Area	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Service Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Public Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Family/Meeting	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Egress Stair 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Bariatric Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Bariatric	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_1	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_1 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_2 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_2	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_3	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_3 Bath	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_5	0	100	0	0	100	0	0	100	0	0	100	0
Level 8-10_Conditioned_Room_6 Bath	0	100	0	0	100	0	0	100	0	0	100	0



Level 8-10_Conditioned_Room_6	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_7	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_7 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Lift 3	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Mech, Elec	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Pantry	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Parlour	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Vestibule	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_CLNR	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_St. WC	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Quiet	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Interview	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Dirty Laundry	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Write Up	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_5 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_4	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_4 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Sitting	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_TV Room	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Laundry	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Kitchen, Dining, Sitting	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_WC	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_13 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_12 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_12	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_13	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_14 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_14	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Egress Stair	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_8 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_8	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_9 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_9	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Serv. Lift	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_10	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Passage	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Sitting	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_11	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_11 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_10 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Room_10 Bath	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Lounge	0	100	0	0	100	0	0	100	0	0	100	0	
Level 8-10_Conditioned_Lounge	0	100	0	0	100	0	0	100	0	0	100	0	
Average	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00

## Attachment C – PMV Results (Senior Living North)

Predicted Mean Vote (% hours in range) - 210031 HammondCare Greenwich- Senior Living North												
Period	Dec-Feb			Mar-May			Jun-Aug			Sep-Nov		
Location	< -1.0	-1.0 ≤ & ≥1.0	> 1.0	< -1.0	-1.0 ≤ & ≥1.0	> 1.0	< -1.0	-1.0 ≤ & ≥1.0	> 1.0	< -1.0	-1.0 ≤ & ≥1.0	> 1.0
CLO	0.67			0.97			1.27			0.97		
MET	70			70			70			70		
Air Speed	0.15			0.15			0.15			0.15		
Temp	24.0C			22.5C			21.0C			22.5C		
Level 1_Conditioned_Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Resident Storage	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Lowe Entry Foyer	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Ancillary Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Bed 1	0	100	0	0	100	0	0	99.9	0.1	0	100	0
Level 1_Conditioned_Room_1_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_SHR Trolley/Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Living Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Bedroom	0	100	0	0	100	0	0	99.9	0.1	0	100	0
Level 1_Conditioned_Room_3_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Ancillary Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bed 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_SHR Trolley/Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Living Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Bedroom	0	100	0	0	100	0	0	99.8	0.2	0	100	0
Level 2_Conditioned_Room_3_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Podium Entry Foyer	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Bedroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Bedroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bedroom 2	0	100	0	0	100	0	0	99.9	0.1	0	100	0
Level 2_Conditioned_Room_6_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_HWB	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Duct	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Ancillary Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Ancillary Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Living Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Living Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_10_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_10_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_10_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0

Level 2, Conditioned, Room, 10_Livinf, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2, Conditioned, Room, 10_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Ancillary Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bed 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, SHR Trolley/Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3_Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3_Bedroom	0	100	0	0	100	0	0	99.6	0.4	0	100	0
Level 3-4, Conditioned, Room, 3_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4_Bedroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5_Bedroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, HWB	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Duct	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Ancillary Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7_Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7_Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Podium Entry Foyer	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Ancillary Storage	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Ancillary Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bed 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, SHR Trolley/Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 2_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3_Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3_Bedroom	0	100	0	0	100	0	0	99.2	0.8	0	100	0
Level 3-4, Conditioned, Room, 3_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 1_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4_Bedroom	0	100	0	0	100	0	0	99.9	0.1	0	100	0
Level 3-4, Conditioned, Room, 4_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5_Toilet	0	100	0	0	100	0	0	100	0	0	100	0

Level 3-4, Conditioned, Room, 5, Bedroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5, Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6, Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, HWB	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Duct	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Ancillary Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7, Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7, Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8, Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8, Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Podium Entry Foyer	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Ancillary Storage	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Elec	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Ancillary Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 1, Bed 1	0	100	0	0	100	0	0	99.5	0.5	0	100	0
Level 5, Conditioned, Room, 1, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 1, Bedroom 2	0	100	0	0	100	0	0	99.8	0.2	0	100	0
Level 5, Conditioned, Room, 1, Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 1, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 2, Bedroom 2	0	100	0	0	100	0	0	98.3	1.7	0	100	0
Level 5, Conditioned, SHR Trolley/Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 2, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 2, Bedroom 1	0	100	0	0	100	0	0	99.9	0.1	0	100	0
Level 5, Conditioned, Room, 2, Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 2, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 2, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 1, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 5, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 5, Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 5, Bedroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 5, Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 6, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 6, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 6, Walk-in Wardrobe	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 6, Bedroom 1	0	100	0	0	100	0	0	99.9	0.1	0	100	0
Level 5, Conditioned, Room, 6, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 6, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, HWB	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Duct	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Ancillary Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7, Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7, Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 7, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 8, Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 8, Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 8, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 8, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 9, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 9, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 9, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 9, Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Room, 9, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Podium Entry Foyer	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Ancillary Storage	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Living, Kitchen & Dining	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0

Level 5 Conditioned Bedroom 3	0	100	0	0	100	0	0	92.3	7.7	0	100	0	
Level 5 Conditioned Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0	
Level 5 Conditioned Bedroom 1	0	100	0	0	100	0	0	99.5	0.5	0	100	0	
Level 5 Conditioned Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0	
Level 5 Conditioned Bathroom 3	0	100	0	0	100	0	0	100	0	0	100	0	
Level 5 Conditioned Bedroom 2	0	100	0	0	100	0	0	95.4	4.6	0	100	0	
Level 5 Conditioned Living, Dining & Kitchen	0	100	0	0	100	0	0	97.8	2.2	0	100	0	
Level 5 Conditioned Room 8 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0	
Level 3-4 Conditioned Room 8 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0	
Level 3-4 Conditioned Room 8 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0	
Level 2 Conditioned Room 8 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0	
Average	0.00	100.00	0.00	0.00	100.00	0.00	0.00	99.94	0.06	0.00	100.00	0.00	99.98

## Attachment D – PMV Results (Senior Living South)



Predicted Mean Vote (% hours in range) - 210031 HammondCare Greenwich - Senior Living South												
Period	Dec-Feb			Mar-May			Jun-Aug			Sep-Nov		
Location	< -1.0	-1.0≤ & ≥1.0	> 1.0	< -1.0	-1.0≤ & ≥1.0	> 1.0	< -1.0	-1.0≤ & ≥1.0	> 1.0	< -1.0	-1.0≤ & ≥1.0	> 1.0
CLO	0.67			0.97			1.27			0.97		
MET	70			70			70			70		
Air Speed	0.15			0.15			0.15			0.15		
Temp	24.0C			22.5C			21.0C			22.5C		
Level 1_Conditioned_Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Ancillary Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_SHR Trolley & Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Lower Entry Foyer	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_1_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 1_Conditioned_Room_3_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Elec & Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_SHR Trolley & Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_1_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_3_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Stairs 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_SHR Trolley & Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_4_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_5_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_6_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_7_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Living, Dininh & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_8_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 2_Conditioned_Room_9_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Elec & Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_SHR Trolley & Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_1_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_1_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_1_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_1_Living, Dining & Kitche	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_2_Living, Dining & Kitche	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_3_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0

Level 3-4, Conditioned, Room, 3 Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3 Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 3 Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Stairs 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, SHR Trolley & Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4 Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4 Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4 Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 4 Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5 Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5 Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5 Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 5 Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6 Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6 Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6 Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 6 Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7 Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7 Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 7 Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8 Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8 Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8 Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8 Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 8 Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9 Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9 Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9 Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9 Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9 Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4, Conditioned, Room, 9 Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0

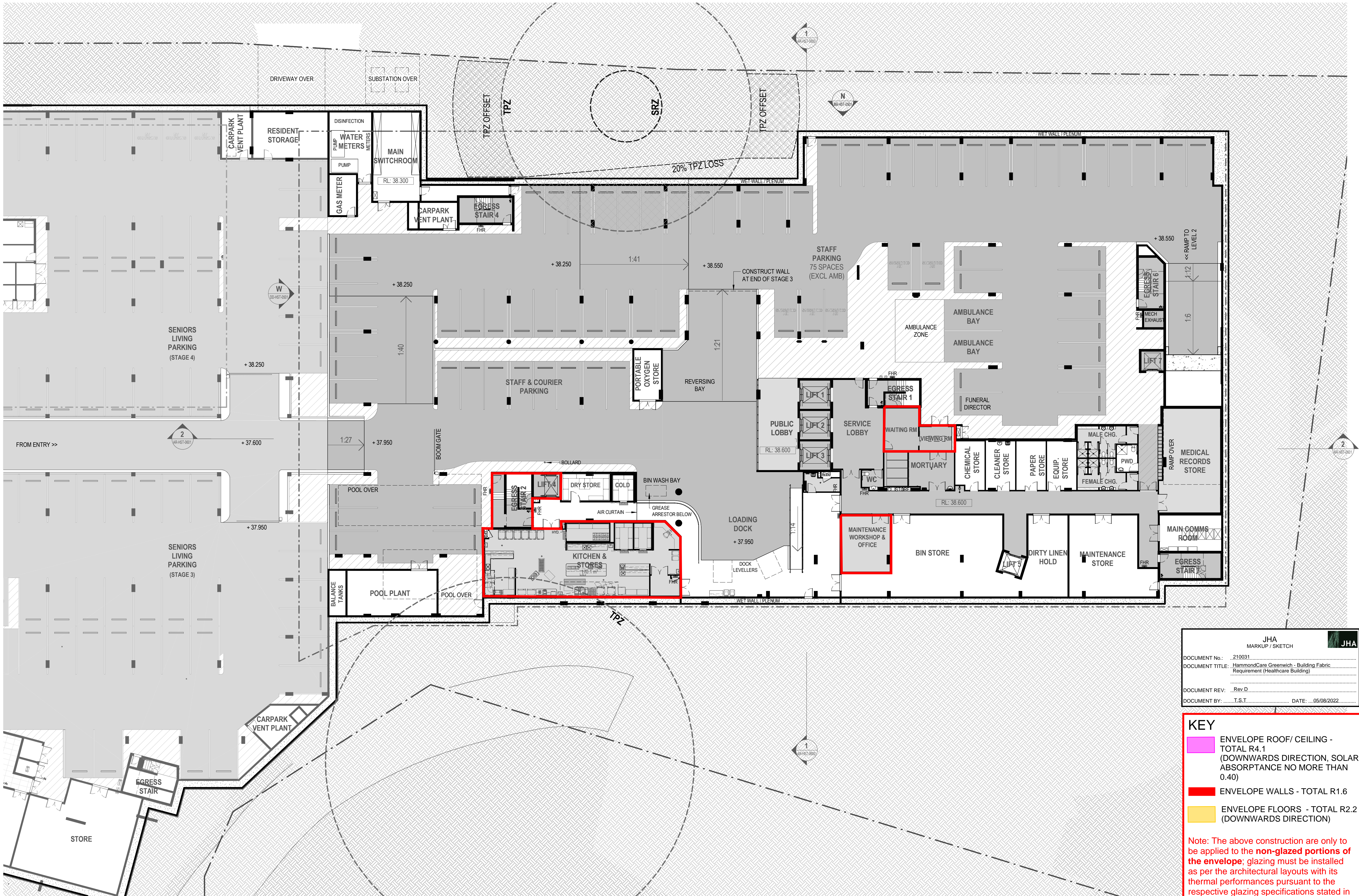
Level 3-4_Conditioned_Room_9_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_10_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_1_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_10_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_10_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 3-4_Conditioned_Room_10_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Elec & Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_SHR Trolley & Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_2_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_2_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_3_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_3_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_3_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_3_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_3_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_SHR Trolley & Hoist	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_4_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_4_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_4_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_4_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_4_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_5_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_5_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_5_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_5_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_5_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_7_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_7_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_7_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_7_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_7_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_8_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_8_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_8_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_8_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_8_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_9_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_9_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_9_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_9_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_9_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_1_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_1_Bedroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_1_Bathroom	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_1_Toilet	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_6_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_6_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_6_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_6_Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_6_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 5_Conditioned_Room_6_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Elec & Comms	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Lift 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Lift 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_4_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_4_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_4_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_4_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_4_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Dirty Utility	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Refuse	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_5_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
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Level 6_Conditioned_Room_5_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_5_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Lobby	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Safe Zone	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_9_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_9_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
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Level 6_Conditioned_Room_9_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_9_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_3_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_3_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_3_Bedroom 2	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_3_Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Room_3_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0
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Level 6_Conditioned_Store	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Sky Lounge	0	100	0	0	100	0	0	100	0	0	100	0
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Level 6_Conditioned_AMB	0	100	0	0	100	0	0	100	0	0	100	0
Level 6_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0

Level 6_Conditioned_HWB	0	100	0	0	100	0	0	100	0	0	100	0	
Level 6_Conditioned_Room_1_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0	
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Level 6_Conditioned_Room_1_Bathroom 2	0	100	0	0	100	0	0	100	0	0	100	0	
Level 6_Conditioned_Room_1_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0	
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Level 6_Conditioned_Corridor	0	100	0	0	100	0	0	100	0	0	100	0	
Level 6_Conditioned_Room_2_Bathroom 1	0	100	0	0	100	0	0	100	0	0	100	0	
Level 6_Conditioned_Room_2_Bedroom 1	0	100	0	0	100	0	0	100	0	0	100	0	
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Level 6_Conditioned_Room_2_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0	
Level 6_Conditioned_Room_2_Bedroom 3	0	100	0	0	100	0	0	100	0	0	100	0	
Level 6_Conditioned_Room_3_Living, Dining & Kitchen	0	100	0	0	100	0	0	100	0	0	100	0	
Level 6_Conditioned_Stair	0	100	0	0	100	0	0	100	0	0	100	0	
Average	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00



## Attachment E – Building Fabric Requirement Markups (Health Building)





JHA MARKUP / SKETCH	
DOCUMENT No.:	..210931
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Healthcare Building)
DOCUMENT REV:	Rev D
DOCUMENT BY:	..T.S.T. DATE: ..05/08/2022

- KEY**
- ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
  - ENVELOPE WALLS - TOTAL R1.6
  - ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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0m 4m 8m 12m 16m 20m

1 : 200 @ A1

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P3	2022.07.08	ISSUE TO CONSULTANTS	AMac
P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac



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	Room Number		Property Boundary
	Detail Number of Section / Elevation		
	Sheet Number of Section / Elevation		

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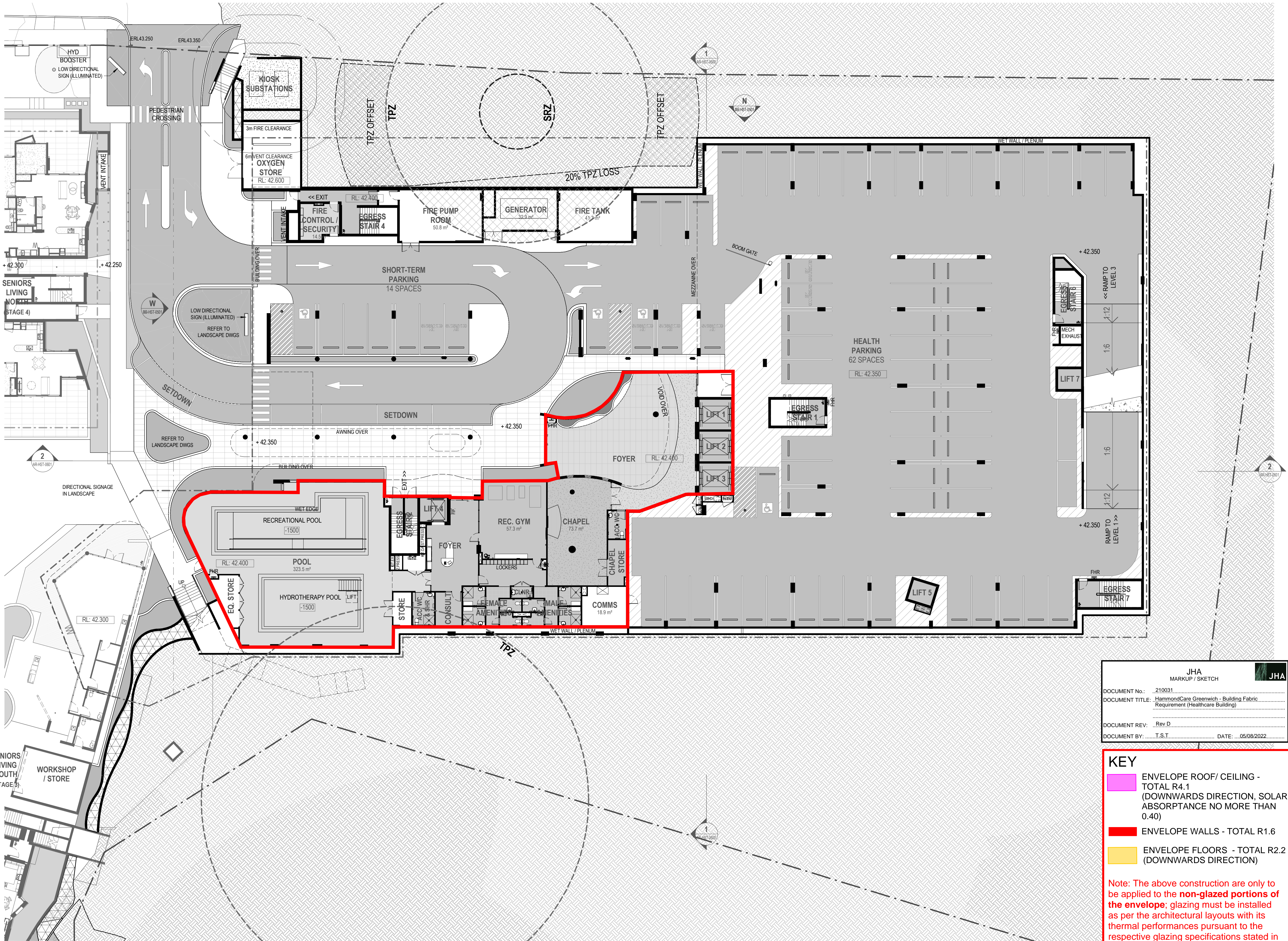


CLIENT:  
**HammondCare**  
Champion Life  
PROJECT: 01605  
GREENWICH HOSPITAL  
REDEVELOPMENT  
RIVER RD, GREENWICH

REVISION: DRAWING No:  
**P5 AR-HST-0100**  
DATE:  
DRAWING TITLE:  
H&C - OVERALL PLAN - L1  
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NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037) 4/08/2022 4:52:09 PM





JHA	
MARKUP / SKETCH	
DOCUMENT No:	210931
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Healthcare Building)
DOCUMENT REV:	Rev D
DOCUMENT BY:	T.S.T.
DATE:	05/08/2022

KEY

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac



LEGEND - PLAN	
SYMBOL	DESCRIPTION
	Room Name
	Room Number
	Detail Number of Section / Elevation
	Sheet Number of Section / Elevation
	Planning Envelope
	Property Boundary

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STUDIO 3, LEVEL 3  
35 BUCKINGHAM STREET  
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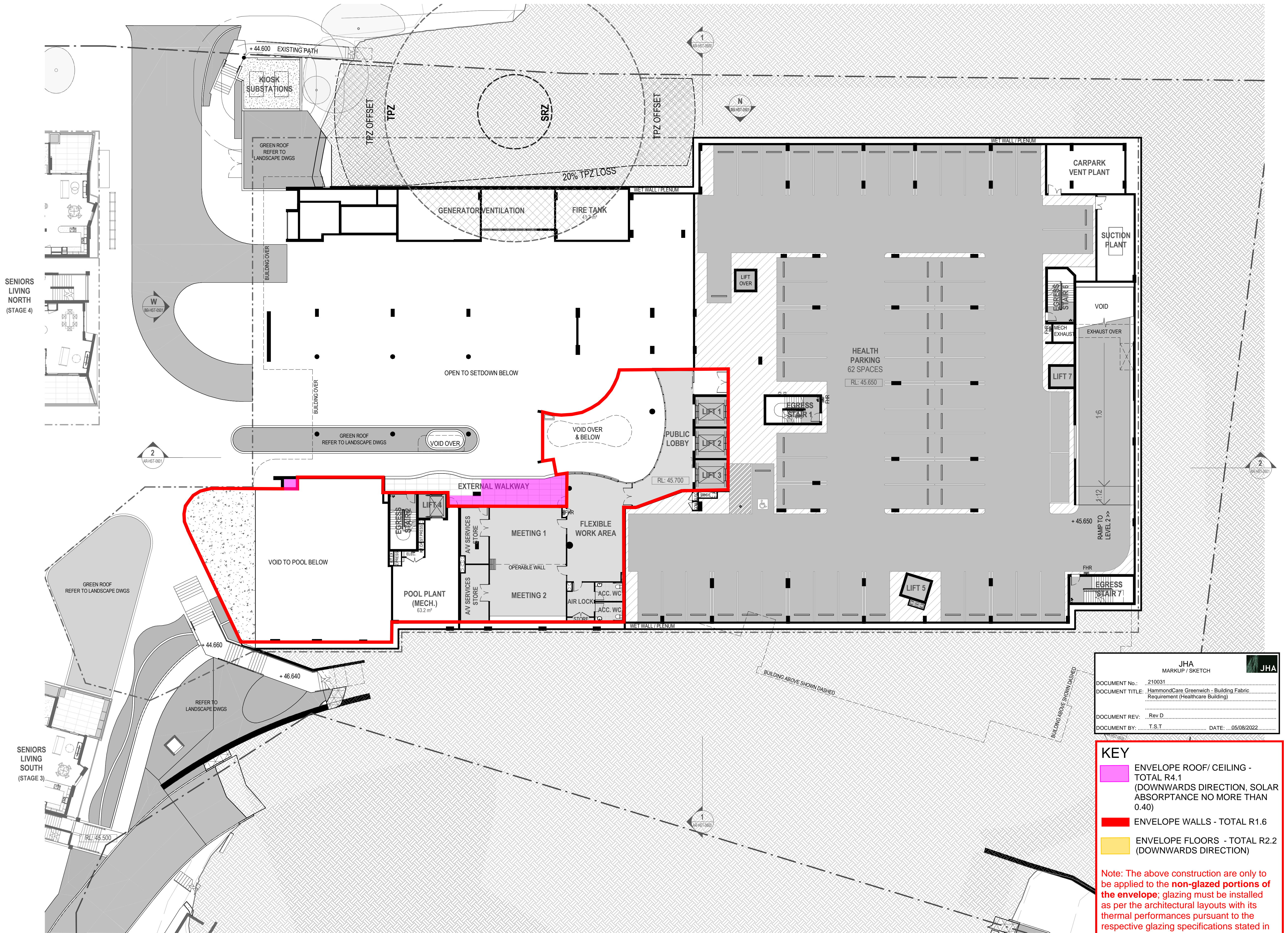
CLIENT:  
**HammondCare**  
Champion Life

PROJECT: 01605  
GREENWICH HOSPITAL  
REDEVELOPMENT  
RIVER RD, GREENWICH

REVISION: P5  
DATE: 2022.08.04  
DRAWING TITLE: H&C - OVERALL PLAN - L2  
DRAWN: NAH  
CHECKED: [Signature]  
SCALE: 1 : 200 @ A1

DRAWING No: **AR-HST-0101**





JHA MARKUP / SKETCH	
DOCUMENT No.:	210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Healthcare Building)
DOCUMENT REV:	Rev.D
DOCUMENT BY:	T.S.T. DATE: 05/08/2022

KEY	
	ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
	ENVELOPE WALLS - TOTAL R1.6
	ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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0m 4m 8m 12m 16m 20m

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P1	2022.06.13	ISSUE TO CONSULTANTS	AMac
REV	DATE	DETAILS	INITIALS



#### LEGEND - PLAN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ROOM NAME Room Name Room Number		Planning Envelope
	Detail Number of Section / Elevation Sheet Number of Section / Elevation		Property Boundary

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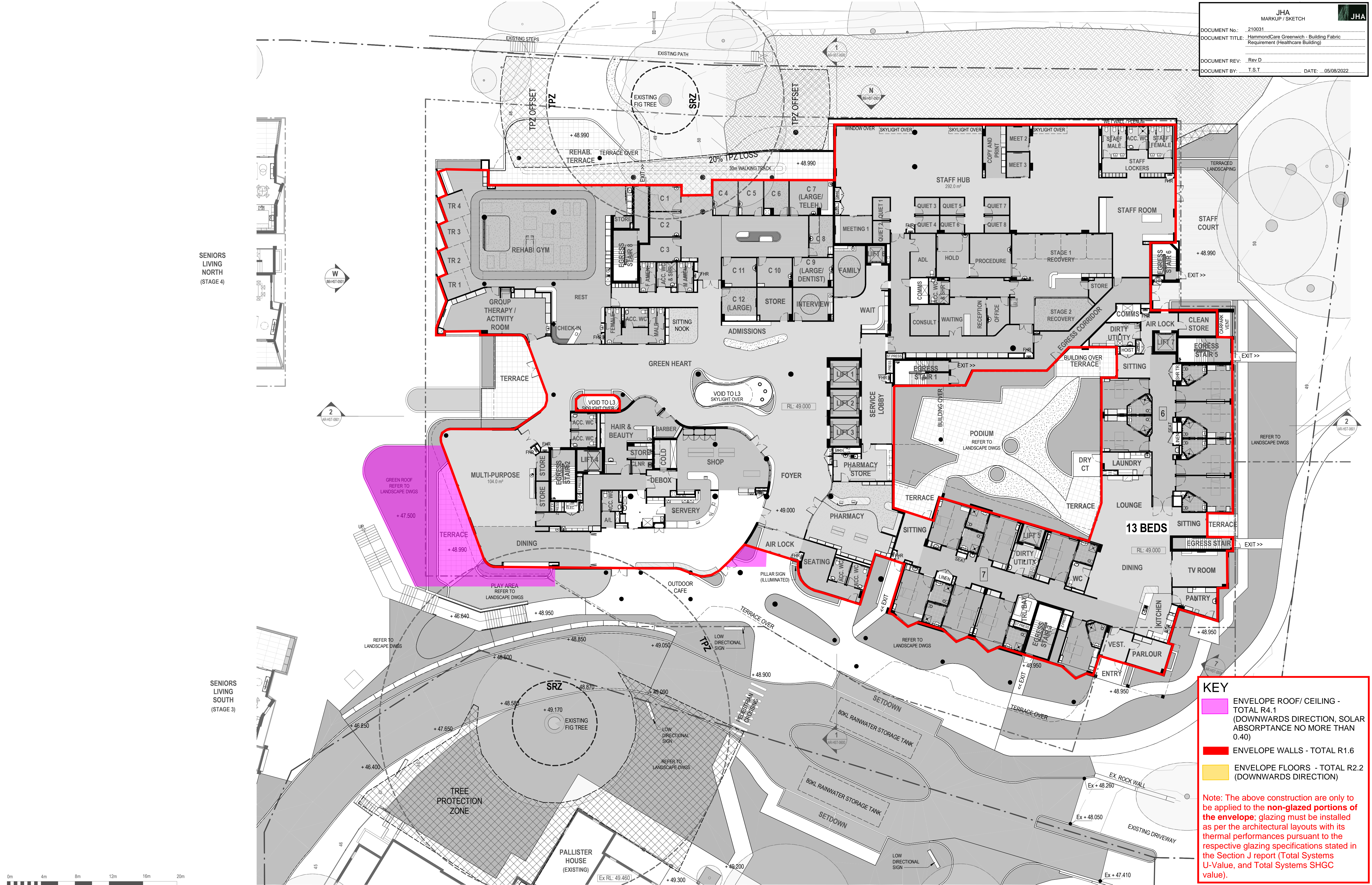


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**HammondCare**  
Champion Life  
PROJECT: 01605  
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REDEVELOPMENT  
RIVER RD, GREENWICH

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DATE: 11/05/21  
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JHA	MARKUP / SKETCH
DOCUMENT No.:	..210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Healthcare Building)
DOCUMENT REV:	..Rev D
DOCUMENT BY:	..T.S.T
DATE:	..05/08/2022

KEY

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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LEGEND - PLAN			
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<div>ROOM NAME</div> <div>000</div>	Room Name Room Number	<div></div>	Planning Envelope Property Boundary
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JHA	MARKUP / SKETCH
DOCUMENT No.:	210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Healthcare Building)
DOCUMENT REV:	Rev.D
DOCUMENT BY:	T.S.T.
DATE:	05/08/2022

KEY

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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P1	2022.06.13	ISSUE TO CONSULTANTS	AMac
REV	DATE	DETAILS	INITIALS

LEGEND - PLAN			
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<div>000</div> <div>000</div>	Detail Number of Section / Elevation Sheet Number of Section / Elevation		

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HammondCare  
Champion Life

PROJECT: 01605  
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REDEVELOPMENT  
RIVER RD, GREENWICH

REVISION:  
P5  
DATE:  
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H&C - OVERALL PLAN - L5

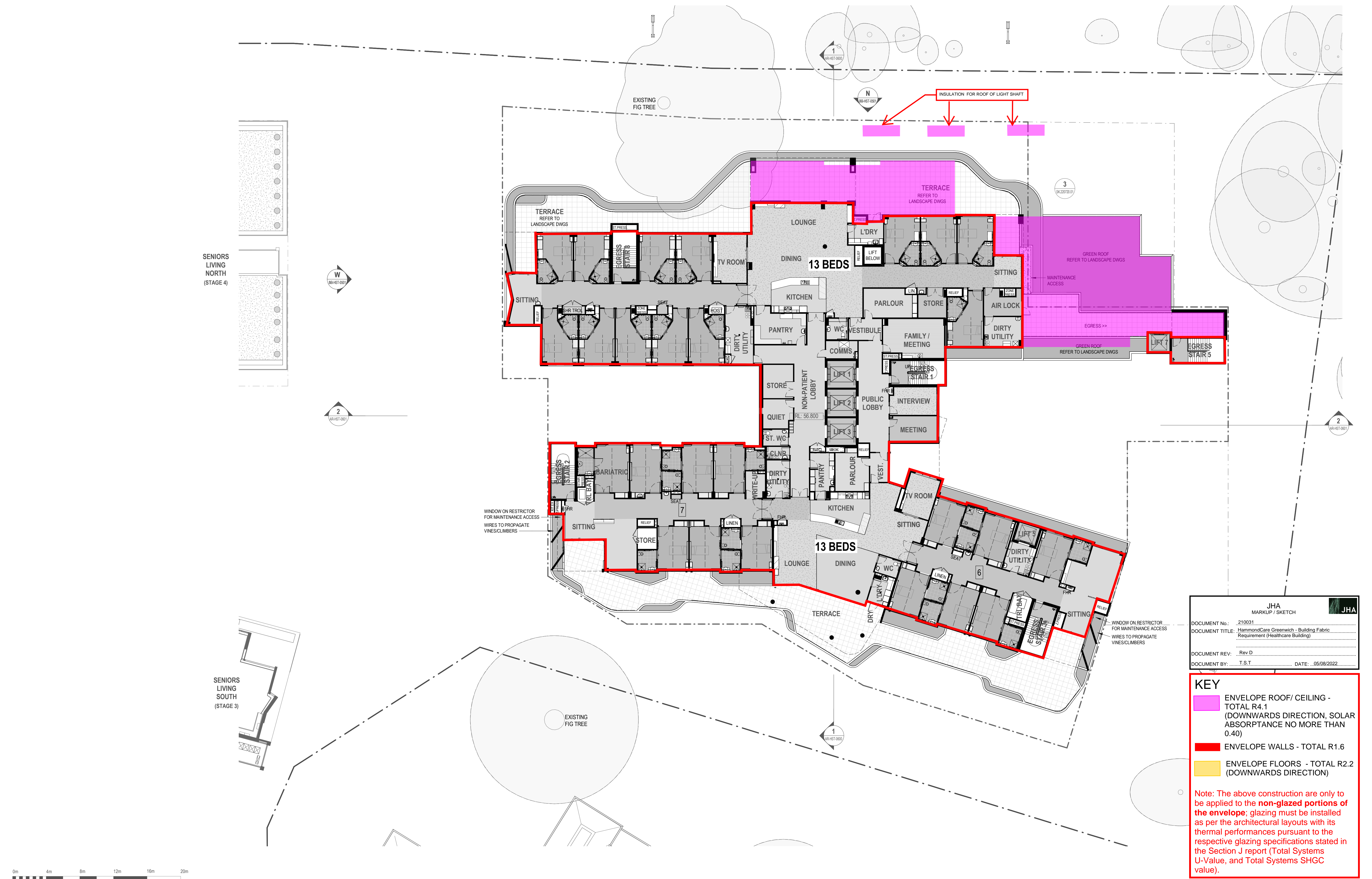
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DRAWING No:  
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P4	2022.07.22	ISSUE TO CONSULTANTS	HV
P3	2022.07.08	ISSUE TO CONSULTANTS	AMac
P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac

LEGEND - PLAN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ROOM NAME	Room Name	Planning Envelope	Planning Envelope
000	Room Number	Property Boundary	Property Boundary
000	Detail Number of Section / Elevation		
000	Sheet Number of Section / Elevation		

SYDNEY

(02) 9261 8333

STUDIO 3, LEVEL 3

35 BUCKINGHAM STREET

SURRY HILLS 2010, NSW

www.bickertonmasters.com.au

BIM

CLIENT:

HammondCare

Champion Life

PROJECT: 01605

GREENWICH HOSPITAL

REDEVELOPMENT

RIVER RD, GREENWICH

REVISION:

P5

DATE:

DRAWING TITLE:

H&C - OVERALL PLAN - L6

DRAWN: NAH

CHECKED:

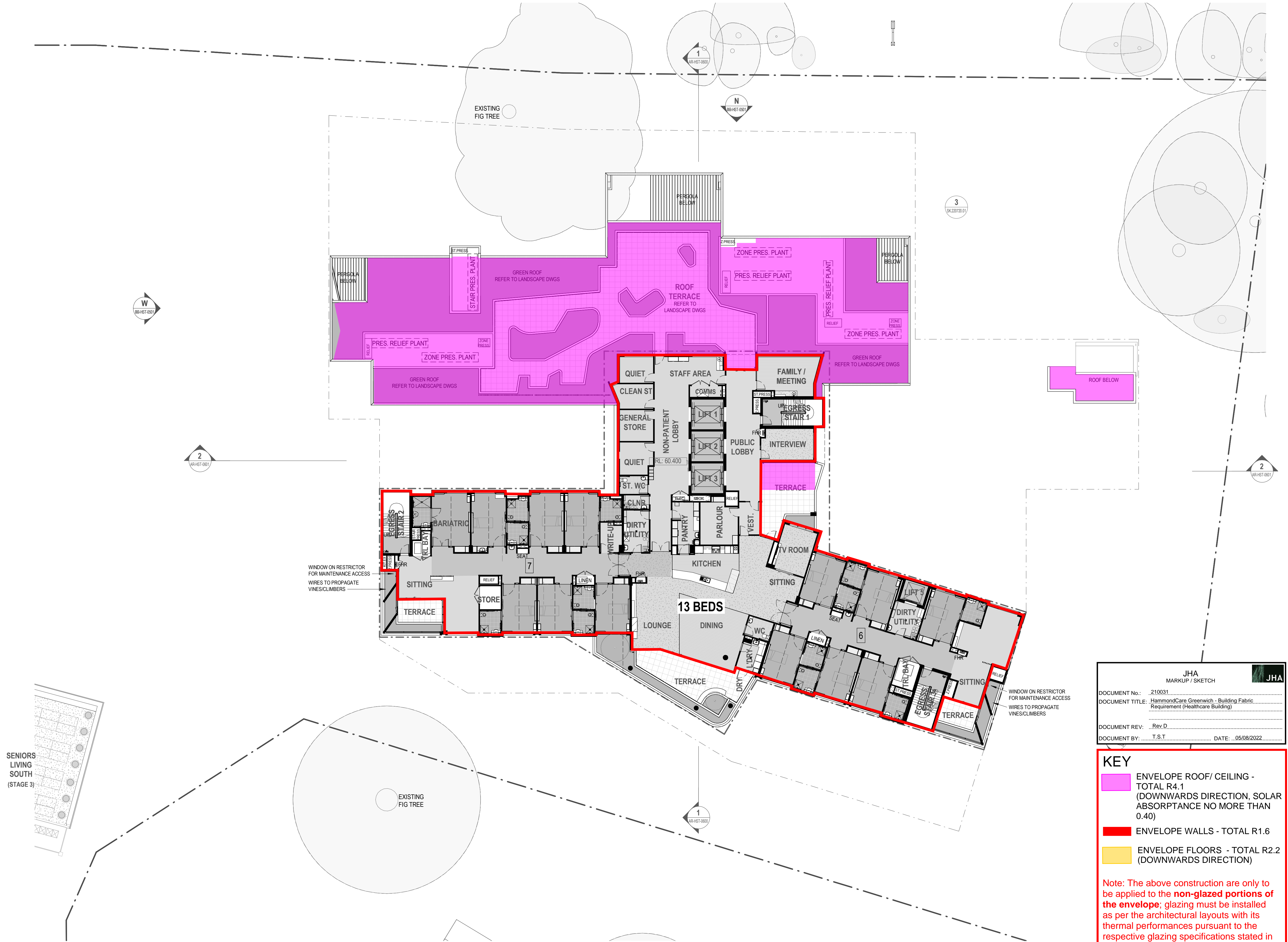
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NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037)

4/08/2022 4:54:04 PM

AR-HST-0105





JHA MARKUP / SKETCH	
DOCUMENT No.:	..210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Healthcare Building)
DOCUMENT REV:	..Rev D
DOCUMENT BY:	..T.S.T
DATE:	..05/08/2022

**KEY**

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

Note: The above construction are only to be applied to the **non-glazed portions of the envelope**; glazing must be installed as per the architectural layouts with its thermal performances pursuant to the respective glazing specifications stated in the Section J report (Total Systems U-Value, and Total Systems SHGC value).



REV	DATE	DETAILS	INITIALS
P5	2022.08.04	ISSUE TO CONSULTANTS	CL
P4	2022.07.22	ISSUE TO CONSULTANTS	HV
P3	2022.07.08	ISSUE TO CONSULTANTS	AMac
P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac



LEGEND - PLAN	
SYMBOL	DESCRIPTION
<div></div>	Room Name
<div></div>	Room Number
<div></div>	Detail Number of Section / Elevation
<div></div>	Sheet Number of Section / Elevation
<div></div>	Planning Envelope
<div></div>	Property Boundary

SYDNEY

(02) 9261 8333

STUDIO 3, LEVEL 3

35 BUCKINGHAM STREET

SURRY HILLS 2010, NSW

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CLIENT:

HammondCare  
Champion Life

PROJECT: 01605

GREENWICH HOSPITAL  
REDEVELOPMENT

RIVER RD, GREENWICH

REVISION:

**P5**

DATE:

**AR-HST-0106**

DRAWING TITLE:

H&C - OVERALL PLAN - L7

DRAWN: NAH

CHECKED:

SCALE: 1 : 200 @A1

NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037)

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0m 4m 8m 12m 16m 20m

1 : 200 @ A1

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REV	DATE	DETAILS	INITIALS
P5	2022.08.04	ISSUE TO CONSULTANTS	CL
P4	2022.07.22	ISSUE TO CONSULTANTS	HV
P3	2022.07.08	ISSUE TO CONSULTANTS	AMac
P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac



#### LEGEND - PLAN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Room Name		Planning Envelope
	Room Number		Property Boundary
	Detail Number of Section / Elevation		
	Sheet Number of Section / Elevation		

SYDNEY  
(02) 9261 8333  
STUDIO 3, LEVEL 3  
35 BUCKINGHAM STREET  
SURREY HILLS 2010, NSW  
www.bickertonmasters.com.au



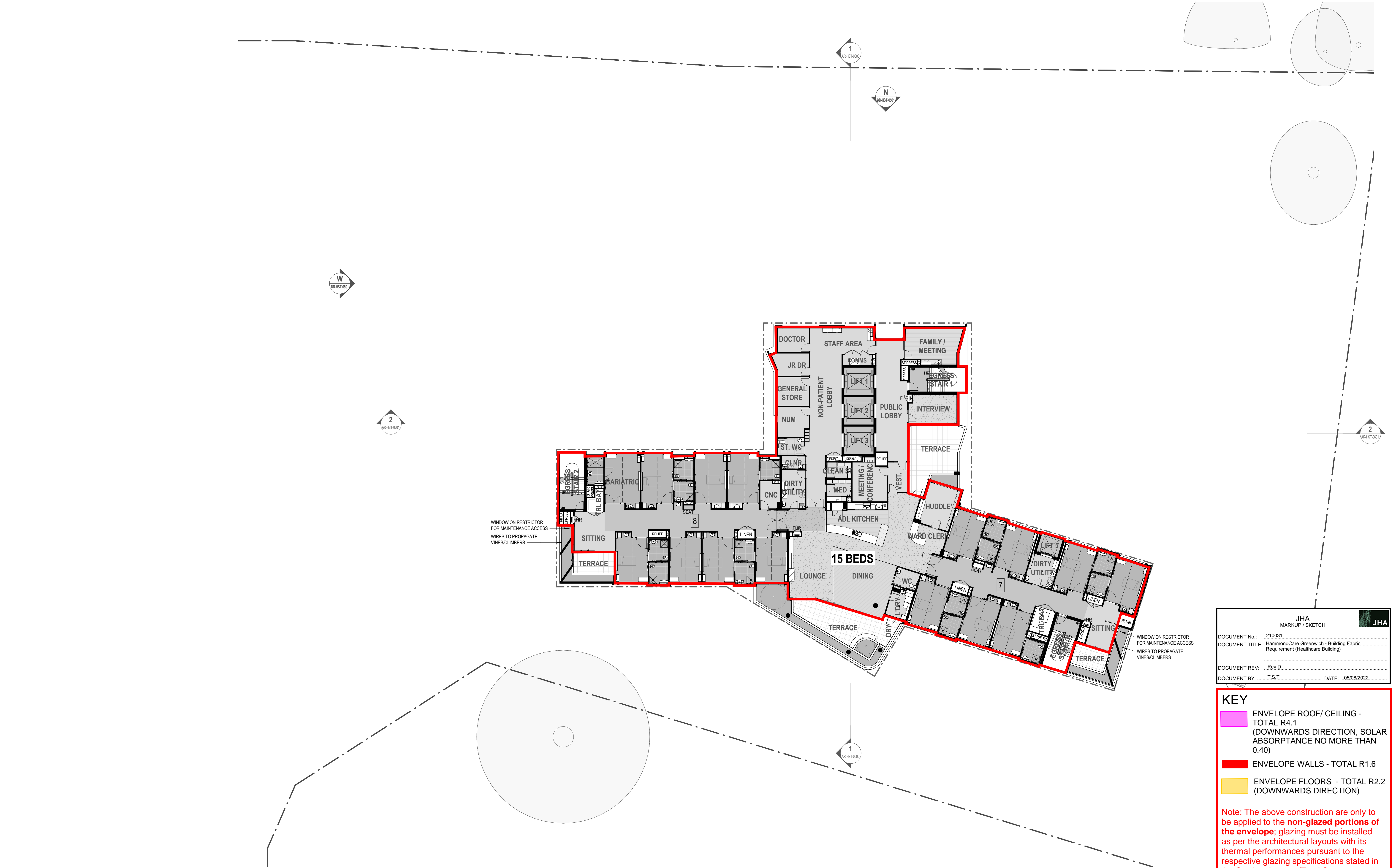
CLIENT:  
**HammondCare**  
Champion Life  
PROJECT: 01605  
GREENWICH HOSPITAL  
REDEVELOPMENT  
RIVER RD, GREENWICH

REVISION: DRAWING No:  
**P5 AR-HST-0107**  
DATE:  
DRAWING TITLE:  
H&C - OVERALL PLAN - L8  
DRAWN: NAH CHECKED: SCALE: 1 : 200 @A1

NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037)

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1 : 200 @ A1

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REV	DATE	DETAILS	INITIALS
P5	2022.08.04	ISSUE TO CONSULTANTS	CL
P4	2022.07.22	ISSUE TO CONSULTANTS	HV
P3	2022.07.08	ISSUE TO CONSULTANTS	AMac
P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac



#### LEGEND - PLAN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Room Name		Planning Envelope
	Room Number		Property Boundary
	Detail Number of Section / Elevation		
	Sheet Number of Section / Elevation		

SYDNEY  
(02) 9261 8333  
STUDIO 3, LEVEL 3  
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SURRY HILLS 2010, NSW  
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CLIENT:  
**HammondCare**  
Champion Life

PROJECT: 01605  
**GREENWICH HOSPITAL  
REDEVELOPMENT**  
RIVER RD, GREENWICH

REVISION: DRAWING No:  
**P5 AR-HST-0108**

DATE: DRAWING TITLE:  
**H&C - OVERALL PLAN - L9**

DRAWN: NAH CHECKED: SCALE: 1 : 200 @A1

NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037) 4/08/2022 4:54:58 PM



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1 : 200 @ A1

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REV	DATE	DETAILS	INITIALS
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P4	2022.07.22	ISSUE TO CONSULTANTS	HV
P3	2022.07.08	ISSUE TO CONSULTANTS	AMac
P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac



#### LEGEND - PLAN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Room Name		Planning Envelope
	Room Number		Property Boundary
	Detail Number of Section / Elevation		
	Sheet Number of Section / Elevation		

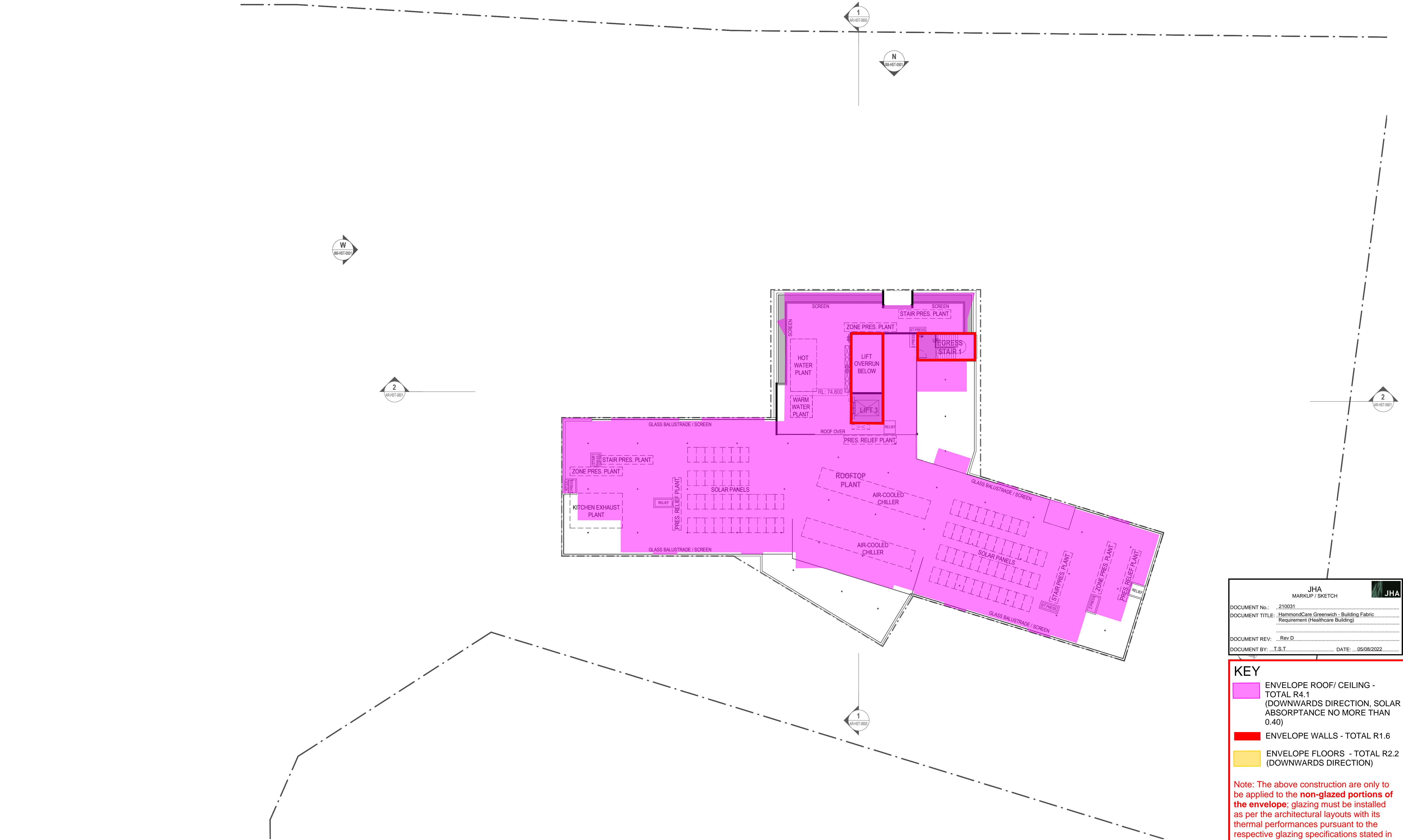
SYDNEY  
(02) 9261 8333  
STUDIO 3, LEVEL 3  
35 BUCKINGHAM STREET  
SURRY HILLS 2010, NSW  
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Champion Life  
PROJECT: 01605  
**GREENWICH HOSPITAL  
REDEVELOPMENT**  
RIVER RD, GREENWICH

REVISION: DRAWING No:  
**P5 AR-HST-0109**  
DATE:  
DRAWING TITLE:  
**H&C - OVERALL PLAN - L10**  
DRAWN: NAH CHECKED: SCALE: 1 : 200 @A1  
NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037) 4/08/2022 4:55:15 PM





JHA	
MARKUP / SKETCH	
DOCUMENT No.:	..210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Healthcare Building)
DOCUMENT REV:	..Rev D
DOCUMENT BY:	...T.S.T.....
DATE:	...05/08/2022.....

**KEY**

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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1 : 200 @ A1

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P5	2022.08.04	ISSUE TO CONSULTANTS	CL
P4	2022.07.22	ISSUE TO CONSULTANTS	HV
P3	2022.07.08	ISSUE TO CONSULTANTS	AMac
P2	2022.06.24	ISSUE TO CONSULTANTS	AMac
P1	2022.06.13	ISSUE TO CONSULTANTS	AMac
REV	DATE	DETAILS	INITIALS

LEGEND - PLAN			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<div>ROOM NAME</div> <div>000</div>	Room Name Room Number	<div></div>	Planning Envelope
<div>000</div> <div>000-HST-000</div>	Detail Number of Section / Elevation Sheet Number of Section / Elevation	<div></div>	Property Boundary

SYDNEY  
(02) 9261 8333  
STUDIO 3, LEVEL 3  
35 BUCKINGHAM STREET  
SURREY HILLS 2010, NSW  
www.bickertonmasters.com.au

**BIM**

CLIENT:  
**HammondCare**  
Champion Life

PROJECT: 01605  
GREENWICH HOSPITAL  
REDEVELOPMENT  
RIVER RD, GREENWICH

REVISION:  
**P5**  
DATE:  
DRAWING TITLE:  
H&C - OVERALL PLAN - L11 / ROOF

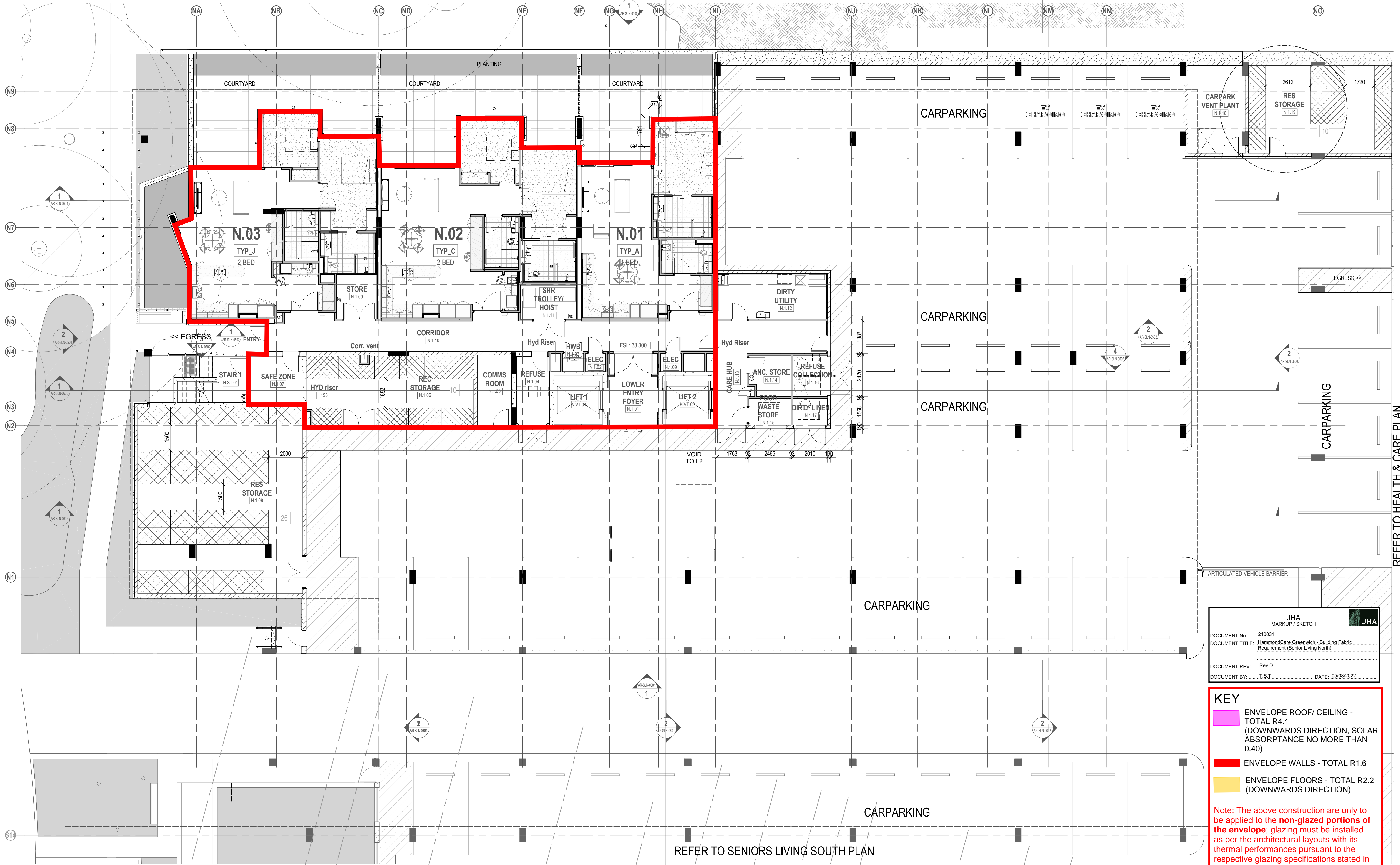
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4/08/2022 4:55:28 PM





## Attachment F – Building Fabric Requirement Markups (Senior Living North)



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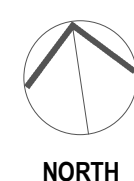
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REV	DATE	DETAILS	INITIALS
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P4	2022.07.22	ISSUE TO CONSULTANTS	CL
P3	2022.07.08	ISSUE TO CONSULTANTS	CL
P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL



#### LEGEND - PLAN

SYMBOL	DESCRIPTION
GA.##	(Glazing Assembly) (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.
W.R.##	(Window) (Room Number) (Window Number) - Refer Elevations & Schedules.
D.R.##	(Door) (Room Number) (Door Number) - Refer Elevations & Schedules.

SYMBOL	DESCRIPTION
ROOM NAME	Room Name (or abbreviation)
000	Room Number
XXX	Floor Finish
000	Detail Number of Section / Elevation
0000	Sheet Number of Section / Elevation

CARPARKING

REFER TO SENIORS LIVING SOUTH PLAN

JHA MARKUP / SKETCH
DOCUMENT No.: ..210031
DOCUMENT TITLE: HammondCare Greenwich - Building Fabric Requirement (Senior Living North)
DOCUMENT REV: ...Rev D
DOCUMENT BY: ...T.S.T. DATE: 05/08/2022

#### KEY

- ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
- ENVELOPE WALLS - TOTAL R1.6
- ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

Note: The above construction are only to be applied to the **non-glazed portions of the envelope**; glazing must be installed as per the architectural layouts with its thermal performances pursuant to the respective glazing specifications stated in the Section J report (Total Systems U-Value, and Total Systems SHGC value).



CLIENT:  
**HammondCare**  
Champion Life

PROJECT: 01605  
**GREENWICH HOSPITAL  
REDEVELOPMENT**  
RIVER RD, GREENWICH

REVISION:  
**P5**

DATE:  
**AR-SLN-0200**

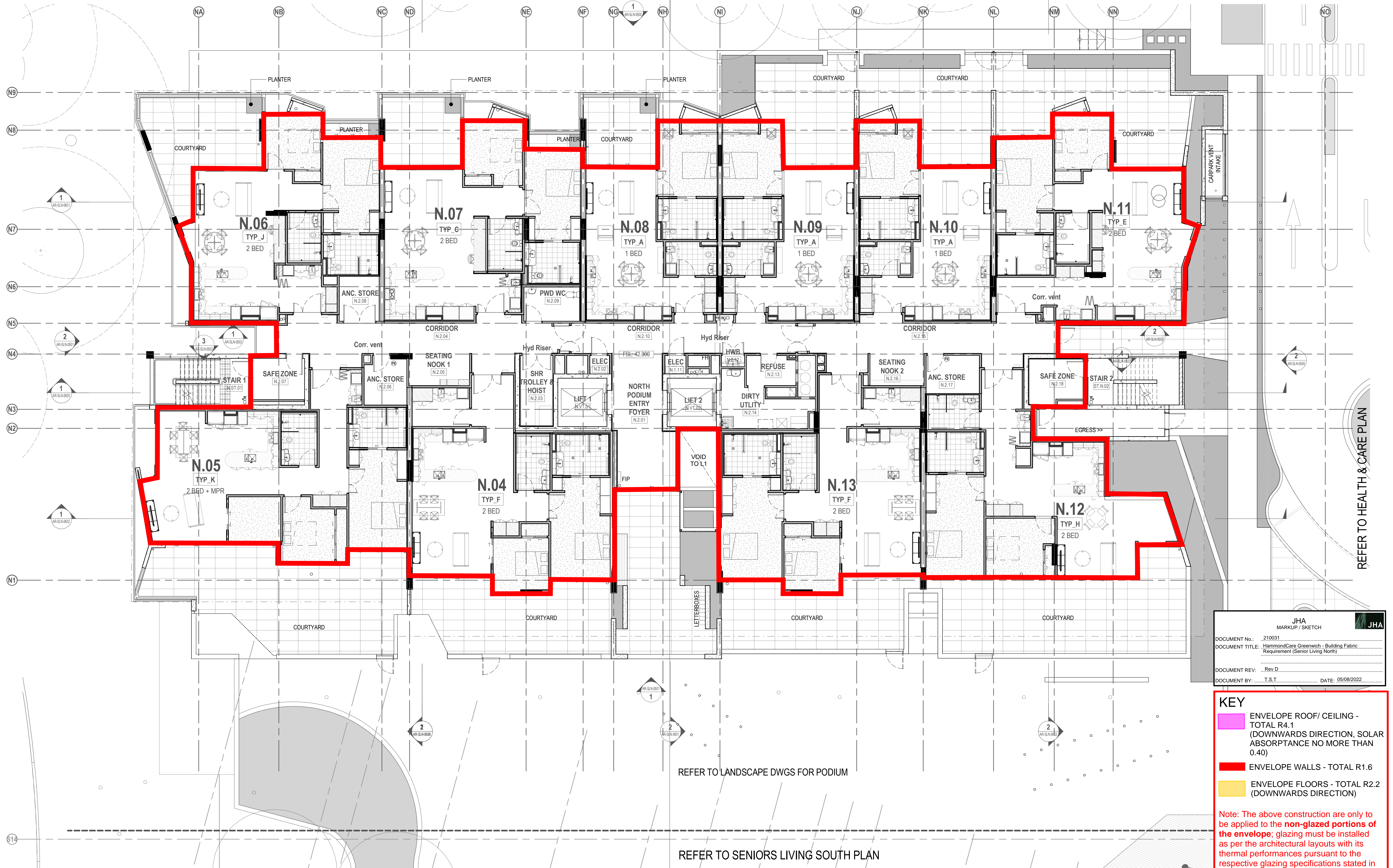
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**SLN - GENERAL ARRANGEMENT PLAN - L1**

DRAWN: NAH, MILL CHECKED: SP SCALE: 1: 100 @A1

NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037)

4/08/2022 4:49:29 PM





REFER TO HEALTH & CARE PLAN

JHA	
MARKUP / SKETCH	
DOCUMENT No:	210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement (Senior Living North)
DOCUMENT REV:	Rev D
DOCUMENT BY:	T.S.T
DATE:	05/08/2022

KEY	
	ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
	ENVELOPE WALLS - TOTAL R1.6
	ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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REV	DATE	DETAILS	INITIALS
P5	2022.08.04	ISSUE TO CONSULTANTS	CL
P4	2022.07.22	ISSUE TO CONSULTANTS	CL
P3	2022.07.08	ISSUE TO CONSULTANTS	CL
P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL

1: 100 @ A1

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LEGEND - PLAN	
SYMBOL	DESCRIPTION
GA.##	(Glazing Assembly) (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.
W.R.##	(Window) (Room Number) (Window Number) - Refer Elevations & Schedules.
D.R.##	(Door) (Room Number) (Door Number) - Refer Elevations & Schedules.

SYMBOL	DESCRIPTION
ROOM NAME	Room Name (or abbreviation)
Room Number	Room Number
Floor Finish	Floor Finish
000	Detail Number of Section / Elevation
0000	Sheet Number of Section / Elevation

SYDNEY  
(02) 9261 8333  
STUDIO 3, LEVEL 3  
35 BUCKINGHAM STREET  
SURRY HILLS 2010, NSW  
www.bickertonmasters.com.au



CLIENT:  
**HammondCare**  
Champion Life  
PROJECT: 01605  
GREENWICH HOSPITAL  
REDEVELOPMENT  
RIVER RD, GREENWICH

REVISION:  
**P5**  
DATE:  
DRAWING TITLE:  
SLN - GENERAL ARRANGEMENT PLAN - L2  
DRAWN: NAH, MILL CHECKED: SP SCALE: 1: 100 @A1  
DRAWING No:  
**AR-SLN-0201**

NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037) 4/08/2022 4:49:36 PM

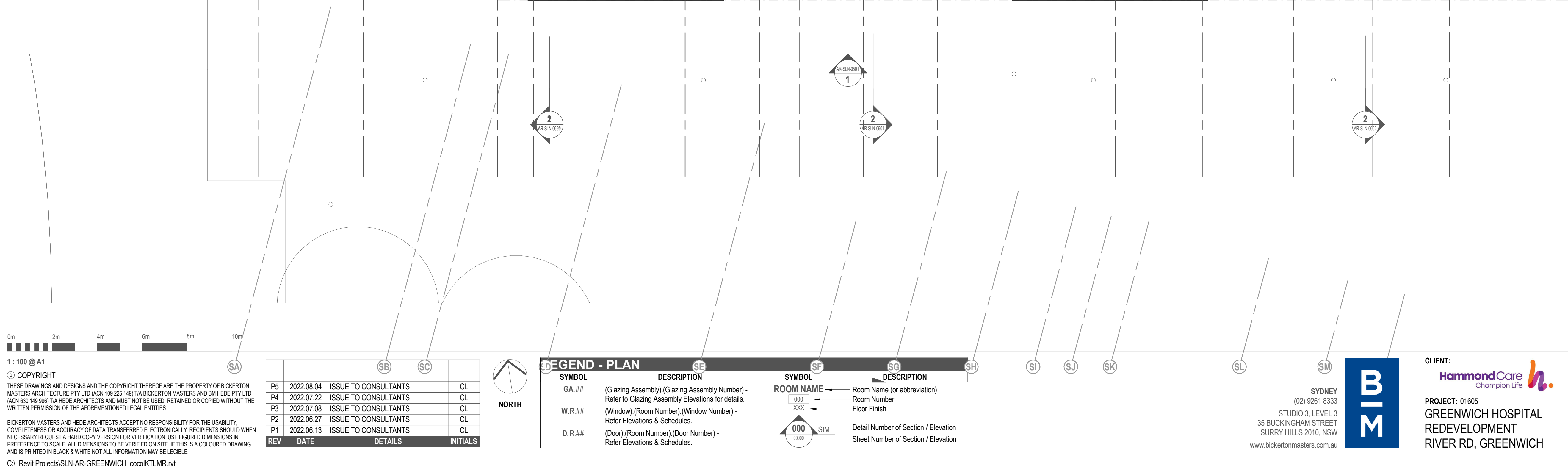







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REVISION: 05  
DATE: 2025-05-20  
DRAWING TITLE: SLN - GENERAL ARRANGEMENT PLAN - L3  
DRAWN: NAH, MLL  
CHECKED: SP  
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ISSUED BY: ANDREW MASTERS (9037)  
4/08/2022 4:49:51





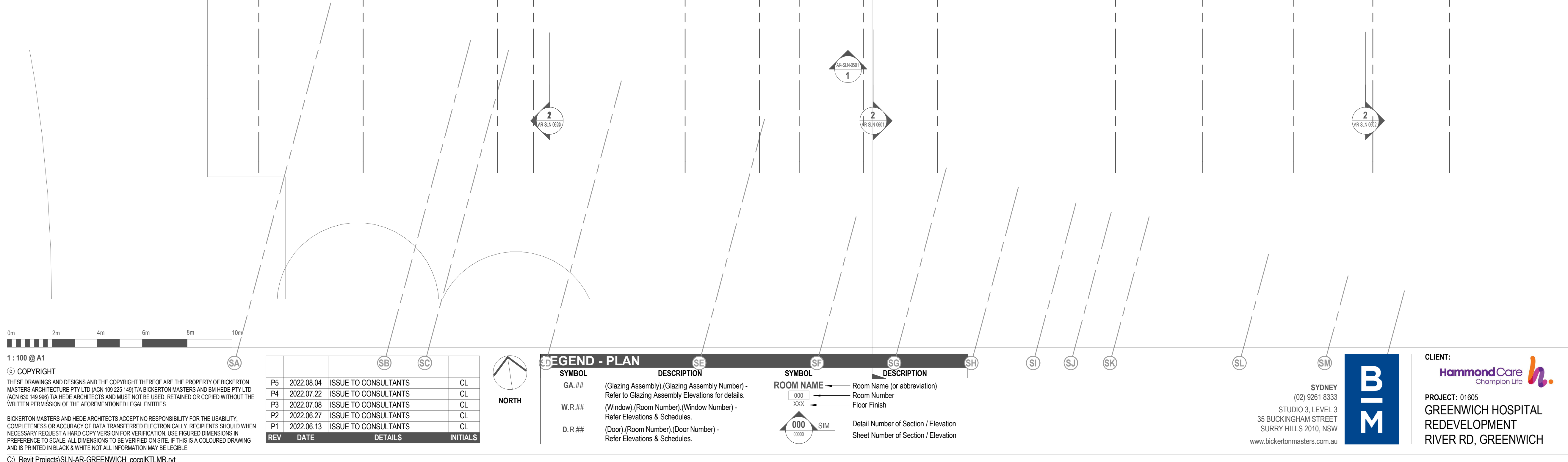
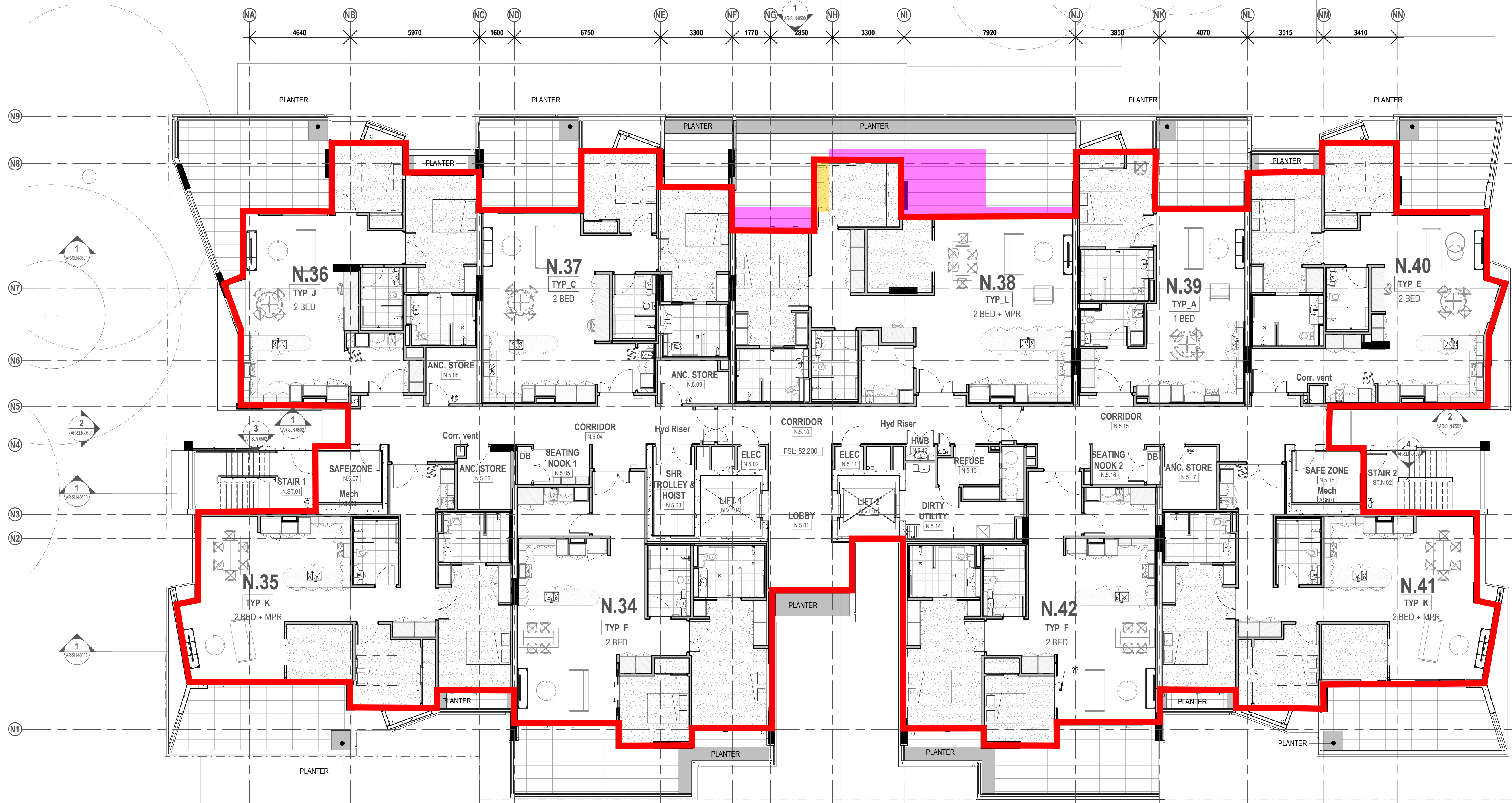
# KEY

	ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTION NO MORE THAN 0.40)
	ENVELOPE WALLS - TOTAL R1.6
	ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

Note: The above construction are only to be applied to the **non-glazed portions of the envelope**; must be installed as per the architectural layouts with its thermal performances pursuant to the respective glazing specifications stated in the Section J report (Total Systems U-Value, and Total Systems SHGC value).

**REVISION:** 5  
**DRAWING No:** AR-SLN-0203  
**DATE:**  
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**CHECKED:** SP  
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**DATE NOMINATED ARCHITECT:** ANDREW MASTERS (9037)  
**DATE:** 4/08/2022 4:50:04





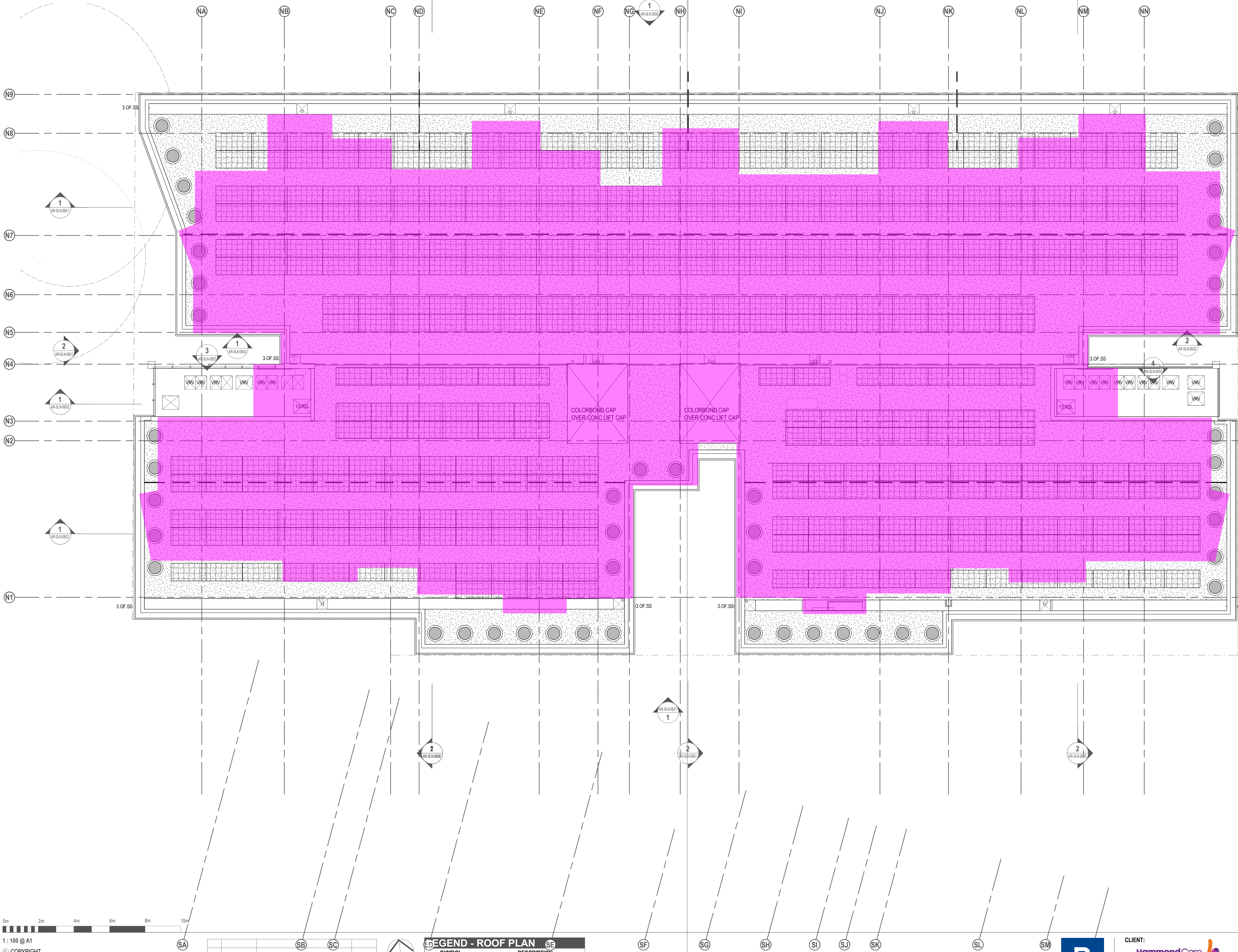
JHA	JHA
MARKUP / SKETCH	
DOCUMENT No.: 210031	
DOCUMENT TITLE: HammondCare Greenwich - Building Fabric Requirement (Senior Living North)	
DOCUMENT REV: Rev D	
DOCUMENT BY: T.S.T	DATE: 05/08/2022

**KEY**

- ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
- ENVELOPE WALLS - TOTAL R1.6
- ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

Note: The above construction are only to be applied to the **non-glazed portions of the envelope**; glazing must be installed as per the architectural layouts with its thermal performances pursuant to the respective glazing specifications stated in the Section J report (Total Systems U-Value, and Total Systems SHGC value).





JHA  
MARKUP / SKETCH

JHA

DOCUMENT No.: ..210031.....  
DOCUMENT TITLE: ..HammondCare Greenwich - Building Fabric Requirement (Senior Living North).....  
DOCUMENT REV: ..Rev D.....  
DOCUMENT BY: .....T.S.T..... DATE: ..05/08/2022.....

KEY

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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P1	2022.06.13	ISSUE TO CONSULTANTS	CL
REV	DATE	DETAILS	INITIALS

LEGEND - ROOF PLAN

SYMBOL

DESCRIPTION

15°

Roof Pitch & Direction of Fall

000

SIM

Detail Number of Section / Elevation

0000

Sheet Number of Section / Elevation

SYDNEY  
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REVISION:  
P5

DATE:

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SLN - ROOF PLAN

DRAWN: NAH, MILL    CHECKED: SP    SCALE: 1 : 100 @A1

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## Attachment G – Building Fabric Requirement Markups (Senior Living South)





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P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL



#### LEGEND - PLAN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
GA.##	(Glazing Assembly). (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.	ROOM NAME	Room Name (or abbreviation)
W.R.##	(Window). (Room Number). (Window Number) - Refer Elevations & Schedules.	000	Room Number
D.R.##	(Door). (Room Number). (Door Number) - Refer Elevations & Schedules.	XXX	Floor Finish
		000 SIM	Detail Number of Section / Elevation
		0000	Sheet Number of Section / Elevation

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PROJECT: 01605  
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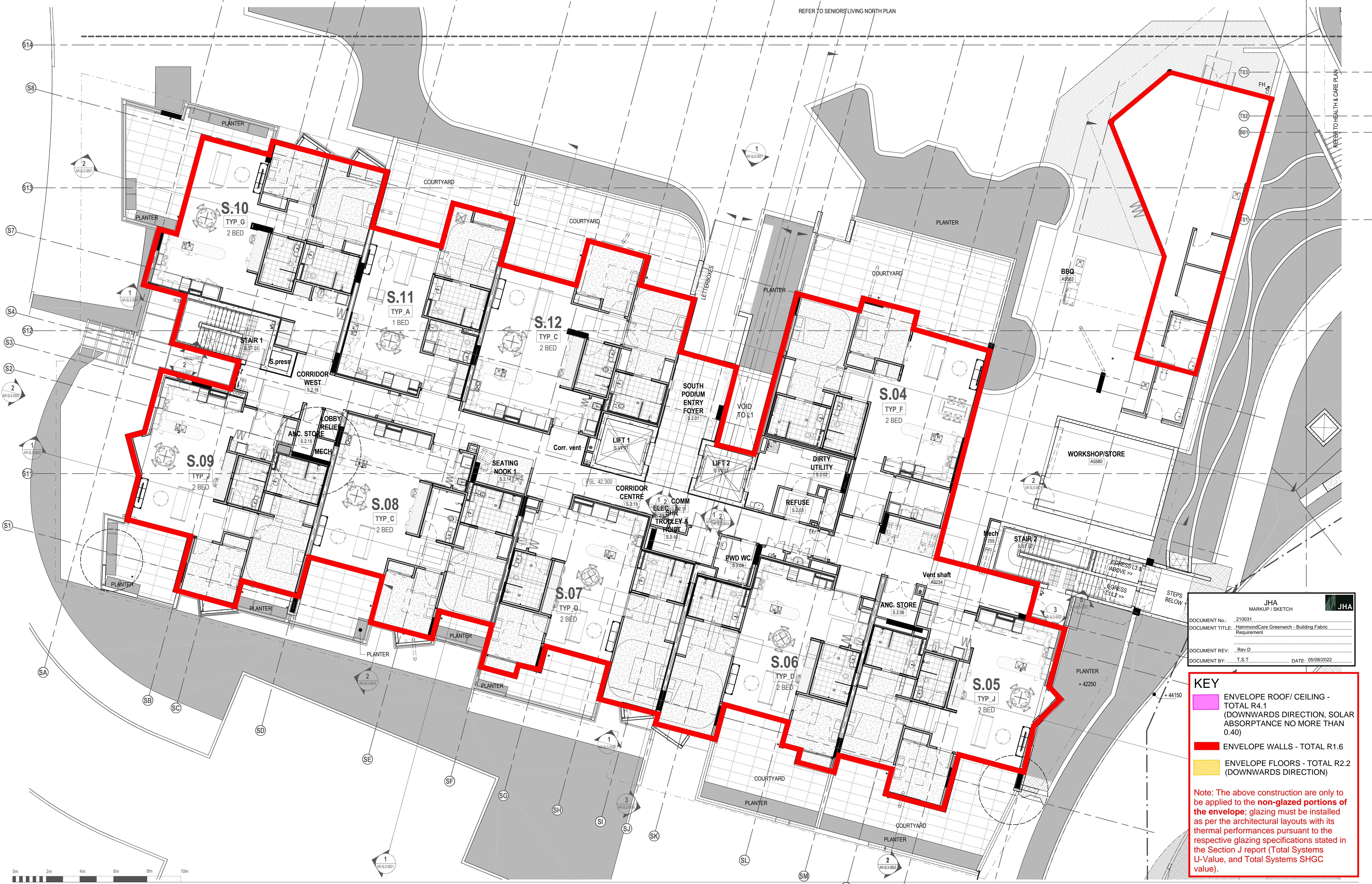
REVISION: **P5**  
DATE:  
DRAWING TITLE:  
**SLS - GENERAL ARRANGEMENT PLAN - L1**

DRAWN: NAH, MILL CHECKED: SP SCALE: 1: 100 @A1

NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037)

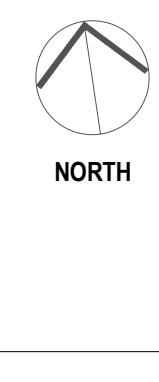
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P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL



LEGEND - PLAN	
SYMBOL	DESCRIPTION
GA.##	(Glazing Assembly) (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.
W.R.##	(Window) (Room Number) (Window Number) - Refer Elevations & Schedules.
D.R.##	(Door) (Room Number) (Door Number) - Refer Elevations & Schedules.
SYMBOL	DESCRIPTION
ROOM NAME	Room Name (or abbreviation)
Room Number	Room Number
Floor Finish	Floor Finish
Detail Number of Section / Elevation	Detail Number of Section / Elevation
Sheet Number of Section / Elevation	Sheet Number of Section / Elevation

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SLS - GENERAL ARRANGEMENT PLAN - L2  
DRAWN: NAH, MILL  
CHECKED: SP  
SCALE: 1: 100 @ A1  
DRAWING No: AR-SLS-0201  
NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037)  
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JHA	
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DOCUMENT No.:	219031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement
DOCUMENT REV:	Rev.D
DOCUMENT BY:	T.S.T.
DATE:	05/08/2022

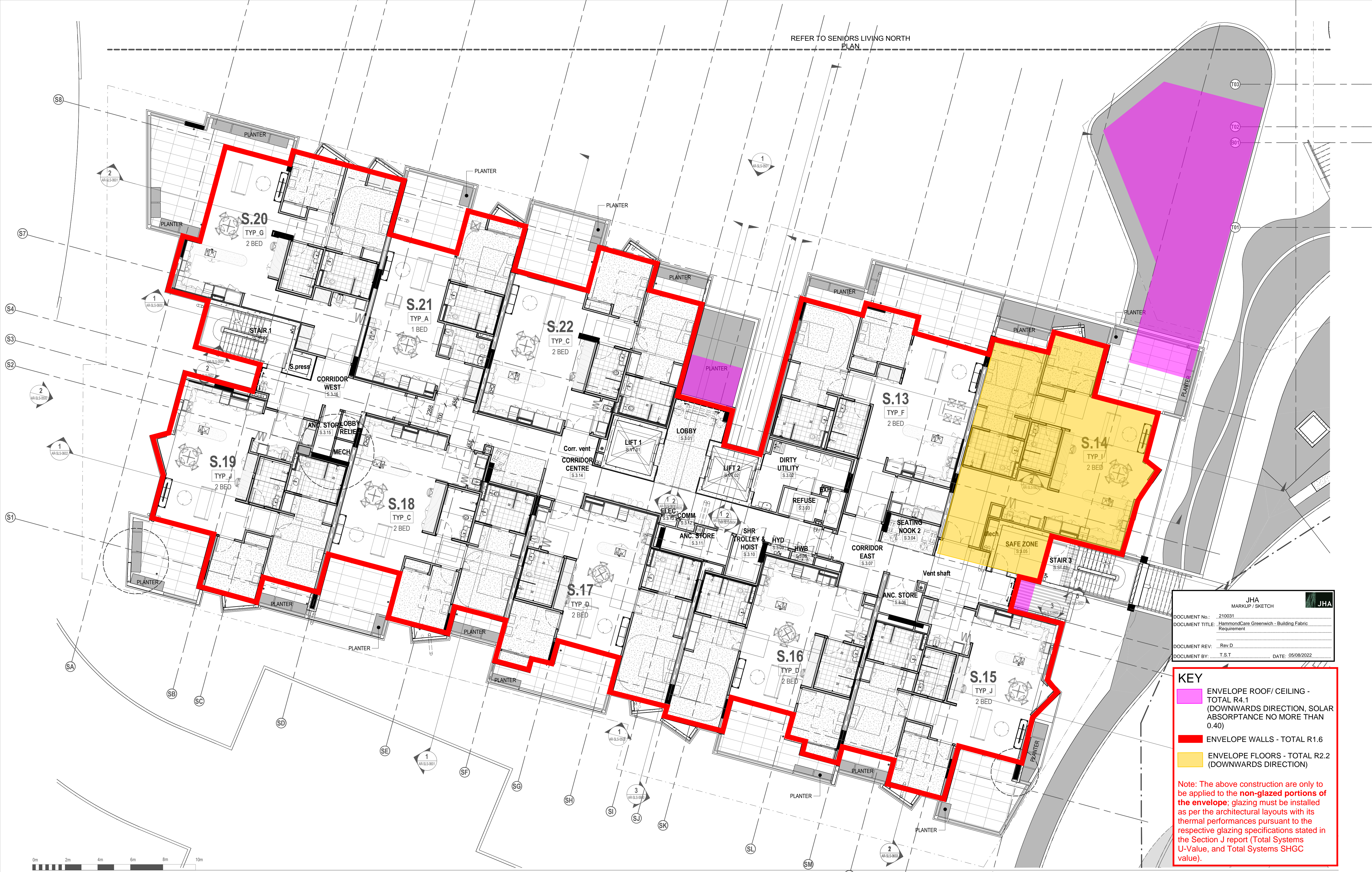
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- ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
- ENVELOPE WALLS - TOTAL R1.6
- ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

Note: The above construction are only to be applied to the non-glazed portions of the envelope; glazing must be installed as per the architectural layouts with its thermal performances pursuant to the respective glazing specifications stated in the Section J report (Total Systems U-Value, and Total Systems SHGC value).



REFER TO SENIORS LIVING NORTH  
PLAN



JHA MARKUP / SKETCH	
DOCUMENT No.:	210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement
DOCUMENT REV:	Rev D
DOCUMENT BY:	T.S.T
DATE:	05/08/2022

KEY	
	ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
	ENVELOPE WALLS - TOTAL R1.6
	ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL



#### LEGEND - PLAN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
GA.##	(Glazing Assembly). (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.	ROOM NAME	Room Name (or abbreviation)
W.R.##	(Window). (Room Number). (Window Number) - Refer Elevations & Schedules.	000	Room Number
D.R.##	(Door). (Room Number). (Door Number) - Refer Elevations & Schedules.	XXX	Floor Finish
		000 SIM	Detail Number of Section / Elevation
		0000	Sheet Number of Section / Elevation

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DRAWING TITLE:  
SLS - GENERAL ARRANGEMENT PLAN - L3  
DRAWN: NAH, MILL CHECKED: SP SCALE: 1:100 @A1

NSW NOMINATED ARCHITECT: ANDREW MASTERS (9037) 4/08/2022 4:43:00 PM





JHA MARKUP / SKETCH	
DOCUMENT No.:	210031
DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement
DOCUMENT REV:	Rev D
DOCUMENT BY:	T.S.T
DATE:	05/08/2022

KEY

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL
REV	DATE	DETAILS	INITIALS



LEGEND - PLAN	
SYMBOL	DESCRIPTION
GA.##	(Glazing Assembly) (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.
W.R.##	(Window) (Room Number) (Window Number) - Refer Elevations & Schedules.
D.R.##	(Door) (Room Number) (Door Number) - Refer Elevations & Schedules.
SYMBOL	DESCRIPTION
ROOM NAME	Room Name (or abbreviation)
Room Number	Room Number
Floor Finish	Floor Finish
000 SIM	Detail Number of Section / Elevation
0000	Sheet Number of Section / Elevation

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CLIENT:  
HammondCare  
Champion Life

PROJECT: 01605  
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REDEVELOPMENT  
RIVER RD, GREENWICH

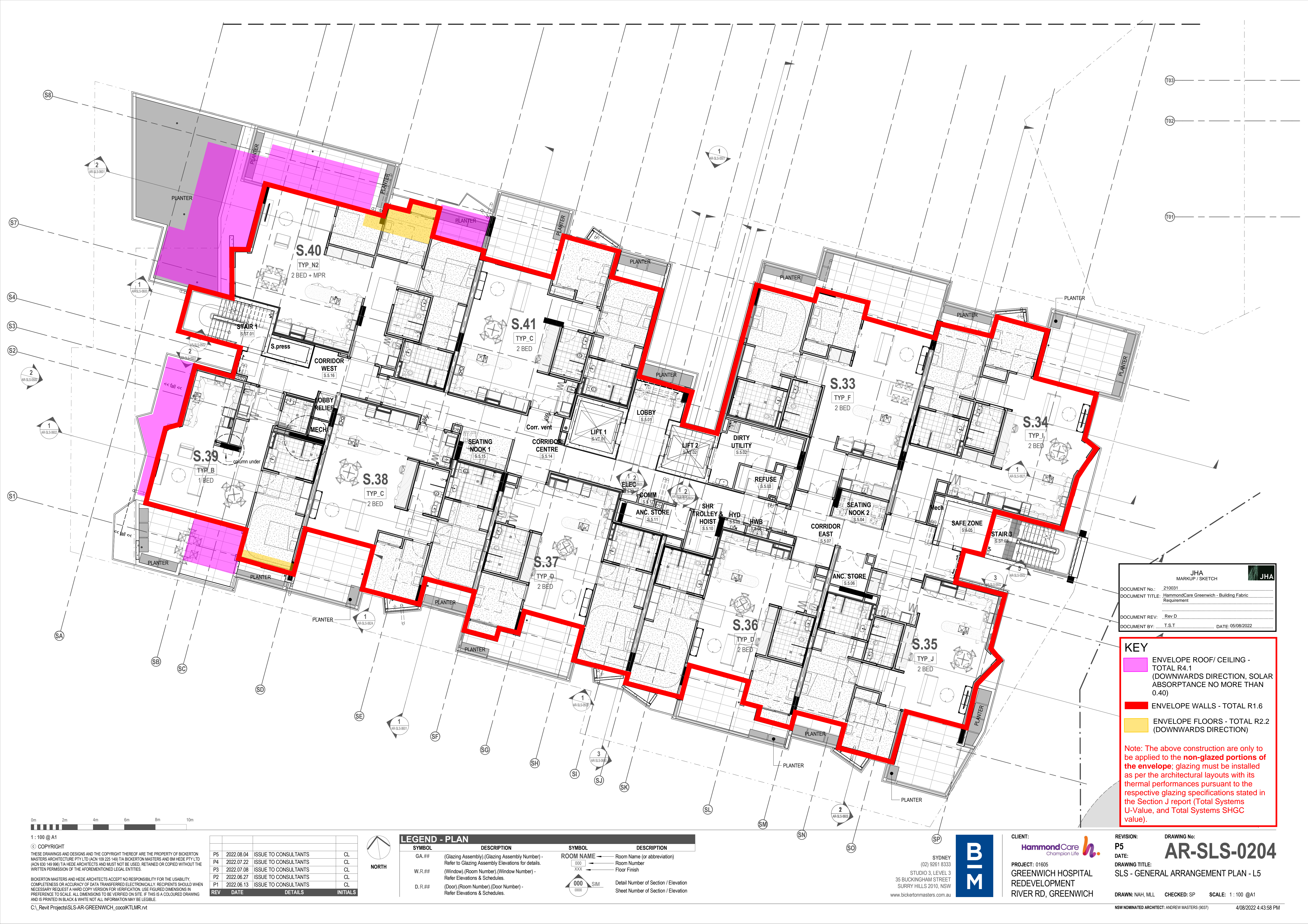
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DOCUMENT REV:	Rev D
DOCUMENT BY:	T.S.T
DATE:	05/08/2022

KEY

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL



LEGEND - PLAN	
SYMBOL	DESCRIPTION
GA.##	(Glazing Assembly), (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.
W.R.##	(Window), (Room Number), (Window Number) - Refer Elevations & Schedules.
D.R.##	(Door), (Room Number), (Door Number) - Refer Elevations & Schedules.
SYMBOL	DESCRIPTION
ROOM NAME	Room Name (or abbreviation)
000	Room Number
XXX	Floor Finish
000	Detail Number of Section / Elevation
0000	Sheet Number of Section / Elevation

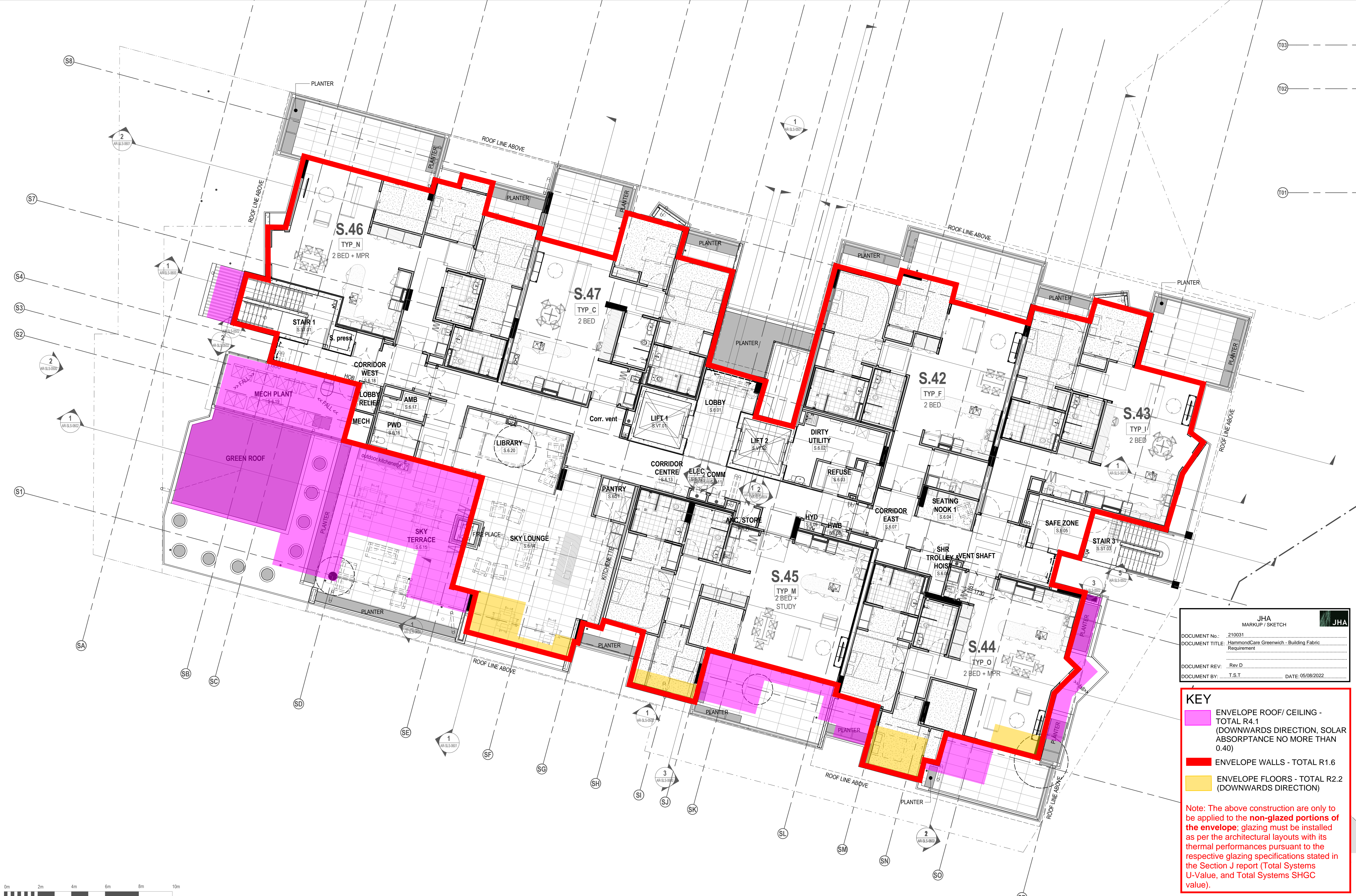
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DOCUMENT TITLE:	HammondCare Greenwich - Building Fabric Requirement
DOCUMENT REV:	Rev D
DOCUMENT BY:	T.S.T.
DATE:	05/08/2022

KEY	
	ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)
	ENVELOPE WALLS - TOTAL R1.6
	ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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0m 2m 4m 6m 8m 10m

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LEGEND - PLAN	
SYMBOL	DESCRIPTION
GA. ##	(Glazing Assembly) (Glazing Assembly Number) - Refer to Glazing Assembly Elevations for details.
W.R. ##	(Window) (Room Number) (Window Number) - Refer Elevations & Schedules.
D.R. ##	(Door) (Room Number) (Door Number) - Refer Elevations & Schedules.
SYMBOL	DESCRIPTION
ROOM NAME	Room Name (or abbreviation)
0000	Room Number
XXXX	Floor Finish
000 SIM	Detail Number of Section / Elevation
0000	Sheet Number of Section / Elevation

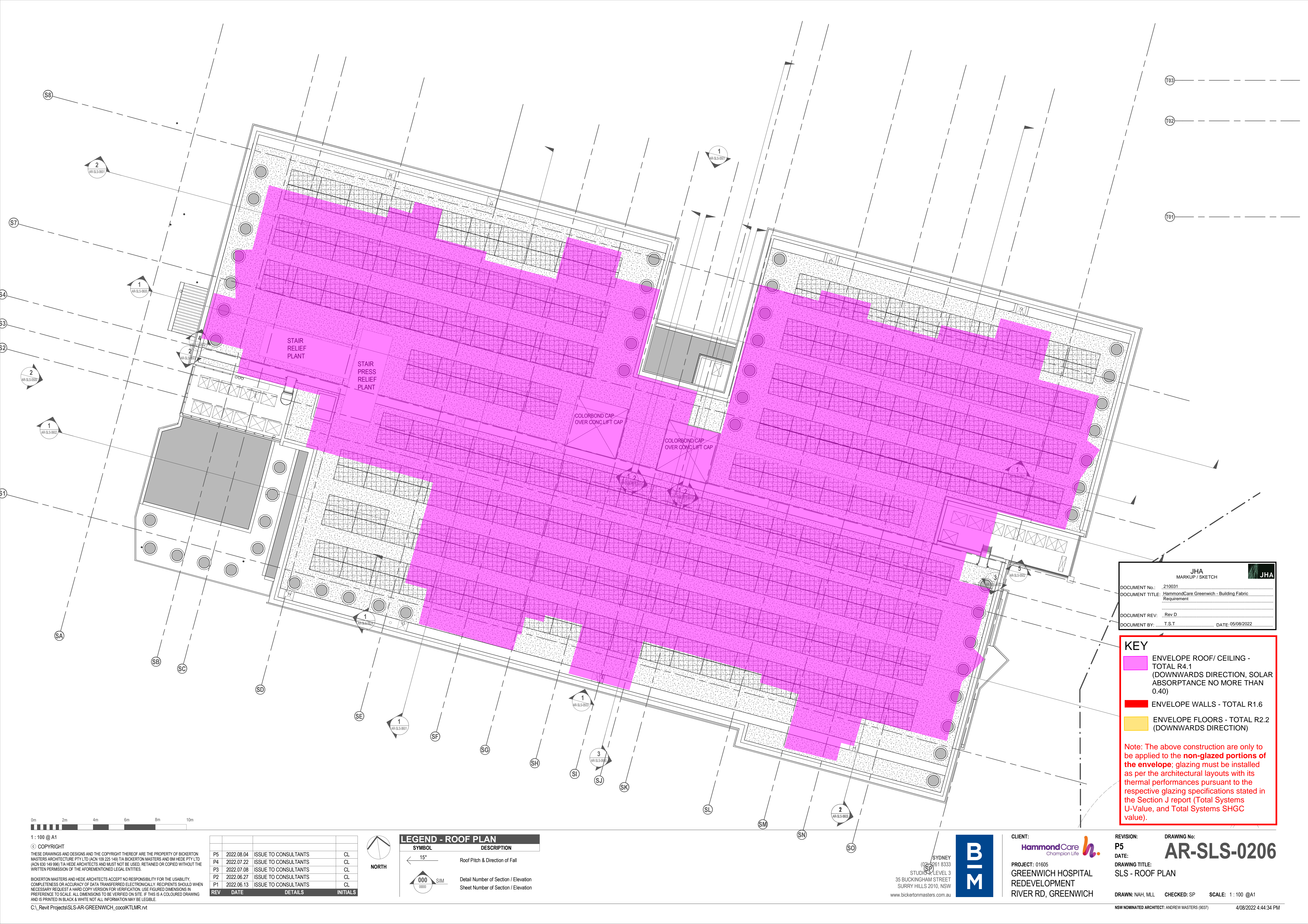
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REVISION: P5  
DATE: 2022.08.04  
DRAWING TITLE: SLS - GENERAL ARRANGEMENT PLAN - L6  
DRAWN: NAH, MLL  
CHECKED: SP  
SCALE: 1: 100 @ A1  
DRAWING No: AR-SLS-0205





JHA  
MARKUP / SKETCH

DOCUMENT No.: 210031  
DOCUMENT TITLE: HammondCare Greenwich - Building Fabric Requirement  
DOCUMENT REV: Rev D  
DOCUMENT BY: T.S.T. DATE: 05/08/2022

KEY

ENVELOPE ROOF/ CEILING - TOTAL R4.1 (DOWNWARDS DIRECTION, SOLAR ABSORPTANCE NO MORE THAN 0.40)

ENVELOPE WALLS - TOTAL R1.6

ENVELOPE FLOORS - TOTAL R2.2 (DOWNWARDS DIRECTION)

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P2	2022.06.27	ISSUE TO CONSULTANTS	CL
P1	2022.06.13	ISSUE TO CONSULTANTS	CL



LEGEND - ROOF PLAN

SYMBOL

DESCRIPTION

15°

Roof Pitch & Direction of Fall

000

SIM

Detail Number of Section / Elevation

0000

Sheet Number of Section / Elevation

SYDNEY  
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**HammondCare**  
Champion Life

PROJECT: 01605  
**GREENWICH HOSPITAL  
REDEVELOPMENT**  
RIVER RD, GREENWICH

REVISION: **P5**  
DATE:  
DRAWING TITLE:  
**SLS - ROOF PLAN**

DRAWN: NAH, MLL CHECKED: SP SCALE: 1: 100 @A1

DRAWING No: **AR-SLS-0206**