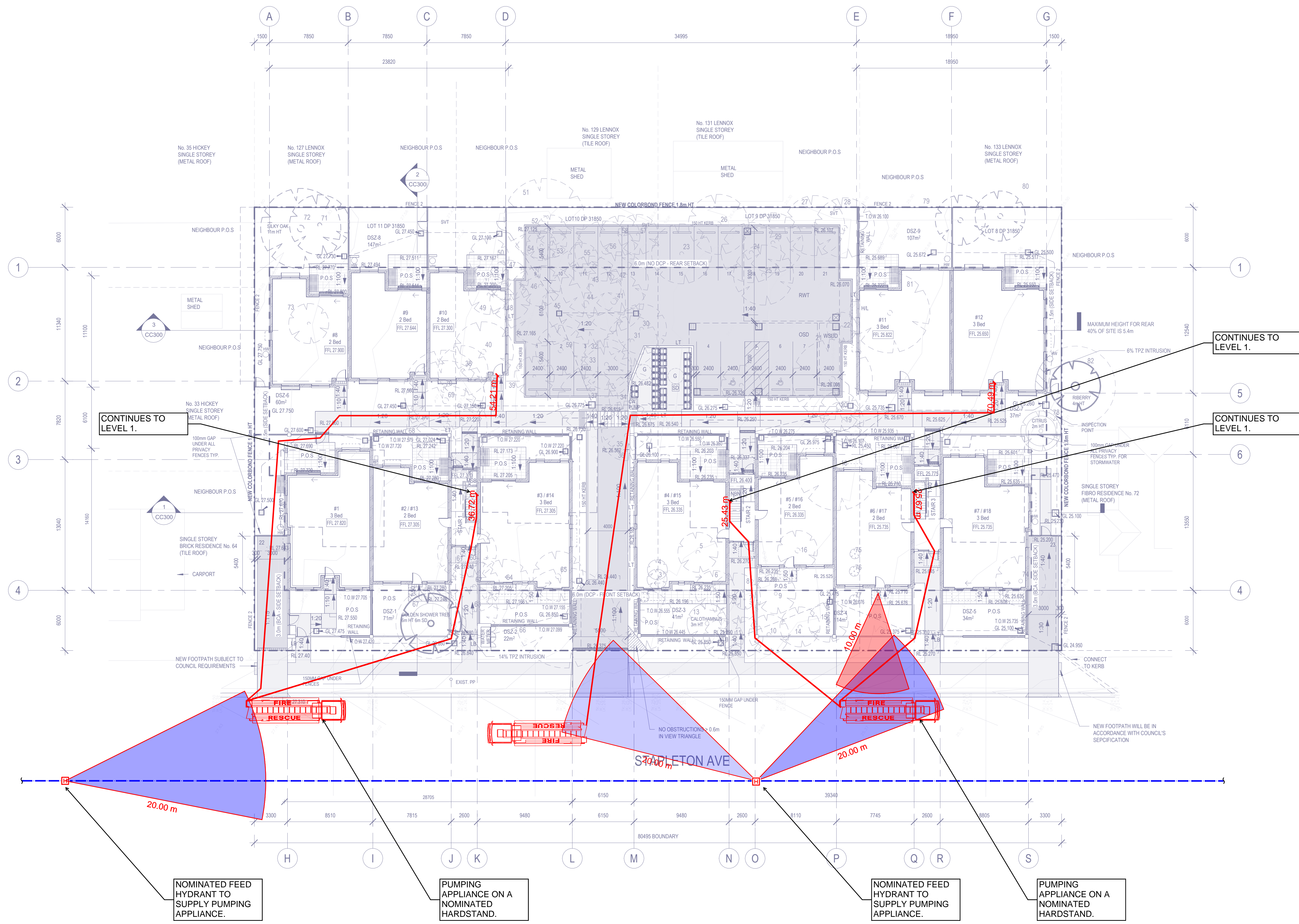


**Notes:**

- AS2419.1-2021 and NCC 2022 is used in this check.
- Red hatching indicates the 10m minimum distance between the pumping appliance and the protected building's facade.
- Blue hatching indicates the 20m maximum hose length from the nominated authority main fire hydrant and the pumping appliance.
- The pumping appliance is a typical FRNSW pumping appliance (10m x 2.5m) and is shown on this plan on a nominated pumping appliance hardstand.
- Pressure and flow is compliant. Authority main feed hydrant can supply 325kPa @ 10L/s.
- Compliant hose coverage (70m) has been achieved throughout this site.



1	28.03.24	MS	FOR INFORMATION
REV.	DATE	BY	DESCRIPTION

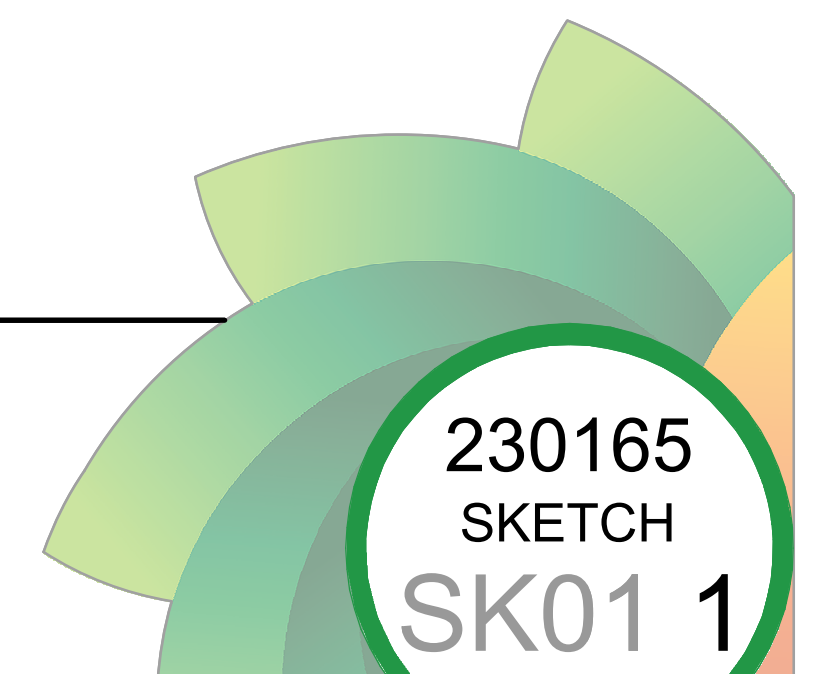
**PROPOSED DEVELOPMENT**  
 64-70 Stapleton Avenue, Casino  
 Homes NSW

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DESIGN: MS    DRAWN: MS    CHECKED: MS

SIZE: A1    SCALE: 1 : 200

**HYDRAULIC DESIGN**  
**SITE PLAN**





REV.	DATE	BY	DESCRIPTION
1	28.03.24	MS	FOR INFORMATION

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DESIGN: MS    DRAWN: MS    CHECKED: MS

SIZE: A1    SCALE: 1 : 100

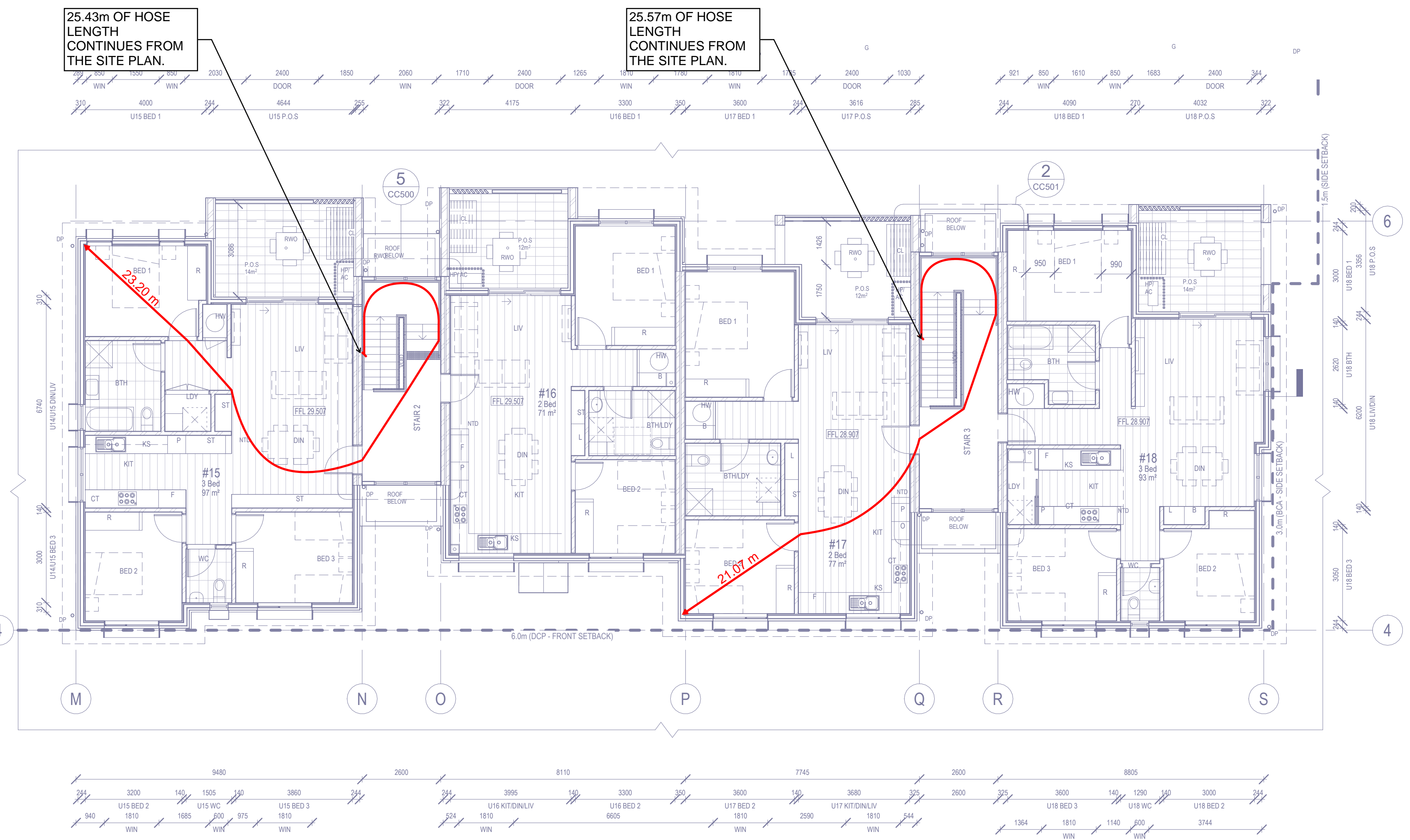
**HYDRAULIC DESIGN**  
**GROUND FLOOR PLAN**



**230165**  
**SKETCH**  
**SK02 1**



60.14m OF HOSE LENGTH IS THE LONGEST HOSE LAY DISTANCE ON THIS SITE.



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1	28.03.24	MS	FOR INFORMATION
REV.	DATE	BY	DESCRIPTION

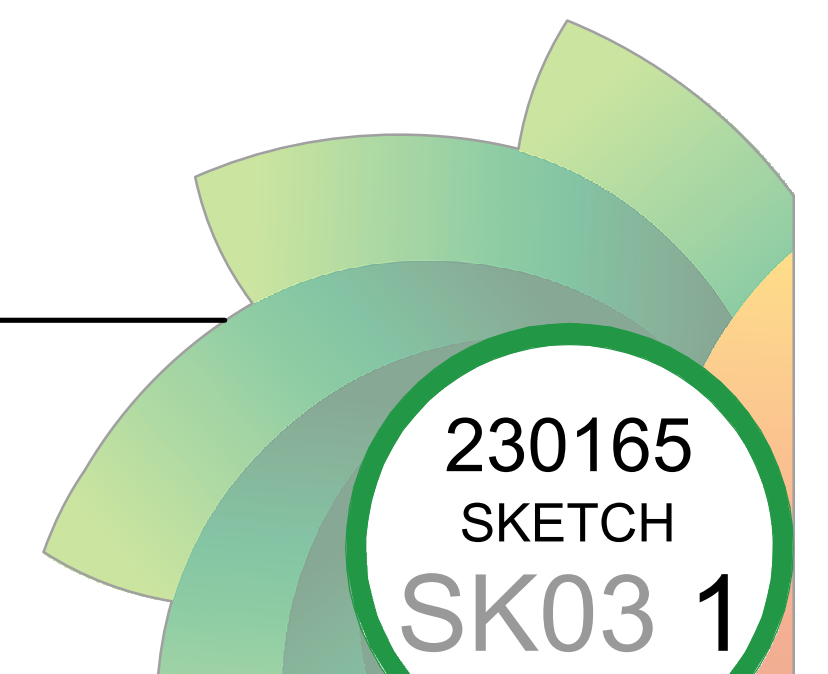
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SIZE: A1    SCALE: 1 : 100

**HYDRAULIC DESIGN**  
**GROUND FLOOR PLAN**





## CONSULTANT ADVICE NOTE

**PROJECT:** Proposed Development

**DATE:** 28.03.2024

**CLIENT:** Homes NSW

**REFERENCE:** 220996

**ADDRESS:** 64-70 Stapleton Avenue, Casino

### 1 INTRODUCTION

The purpose of this consultant advice note is to offer guidance on ensuring compliance with the Development to Standards (DTS) requirements regarding hydrant coverage checks. The project site comprises two Class 2 buildings with a total of 12 units and two Class 1a buildings with 5 townhouse style single occupancy units (SOU), making a combined total of 17 units. The assessment of hydrant coverage has been conducted in accordance with AS2419.1-2021, NSWFB Guidelines for Minor Residential Development, and the NCC 2022. It should be reviewed alongside the document titled "220996 Coverage Check 01" by Greenview Consulting.

### 2 CLASS 2 COMPONENT

For the Class 2 units within the project, hydrant coverage assessment is based on AS2419.1 standards. These buildings, each containing 6 SOU's, and are located along Stapleton Avenue in Casino. The water main from the Richmond Valley Council supplying this site demonstrates adequate pressure and flow (minimum 10L/s @ 150kPa) for effective operation of feed hydrants. The calculated maximum hose lay distance for this project is 60.14m, which is within the 70m limit for effective coverage from a Fire & Rescue New South Wales (FRNSW) pumping appliance (fire truck). Therefore, additional on-site fire hydrant installations are unnecessary.

Project ID	Mains Pressure Flow Rate	Flow Rate (L/s)	Pressure (kPa)
Test Details	Test	0	450
Location	CASINO	10	325
Street Address	64-70 Stapleton Avenue	15	260
Requested By	Moody Shihadeh	20	170
Tested by	Michael Conway	25	60
Date	24/07/2023	30	60
Maximum Flow Rate	30.00		

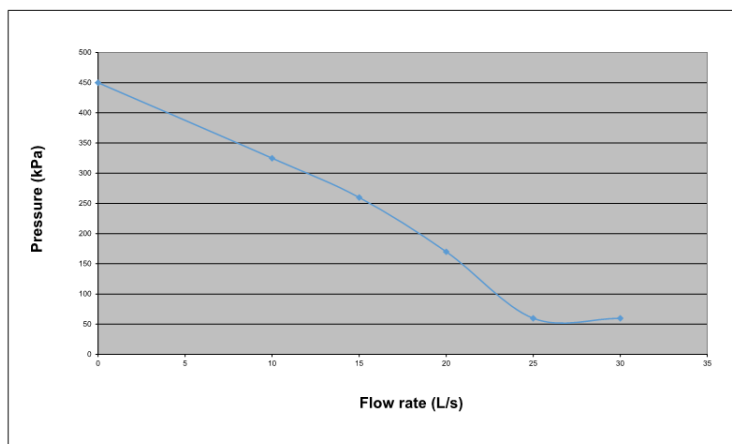


Figure 1: Pressure and Flow

### 3 CLASS 1A COMPONENT

For the Class 1 units within the project, hydrant coverage assessment follows the NSWFB Guidelines for Minor Residential Development. These buildings, contain a total of 5 three-bedroom single-storey sole occupancy units, are situated at the rear of the development behind the class 2 units along Stapleton Avenue in Casino. Similar to the Class 2 buildings, the water main from the Richmond Valley Council meets the required pressure and flow specifications. Coverage is achieved using 3 lengths of hose, totalling 90m.

### 4 ASSESSMENT AND CONCLUSION

Aligned with the regulations stipulated in the National Construction Code (NCC) of 2022, as well as the specific guidelines outlined in the New South Wales Fire Brigade (NSWFB) Guidelines For Minor Residential Development and AS2419.1-2021, the comprehensive assessment concludes that the deployment of one Fire & Rescue New South Wales (FRNSW) pumping appliance per building suffices to ensure effective fire hydrant coverage across the entirety of this site. This coverage is made possible through the utilization of authority main feed hydrants strategically positioned along Stapleton Avenue, thus meeting the necessary safety standards and regulatory requirements for fire protection.

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Name of Employer:	<b>Greenview Consulting Engineers</b>
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Yours faithfully,



For & on behalf of Greenview