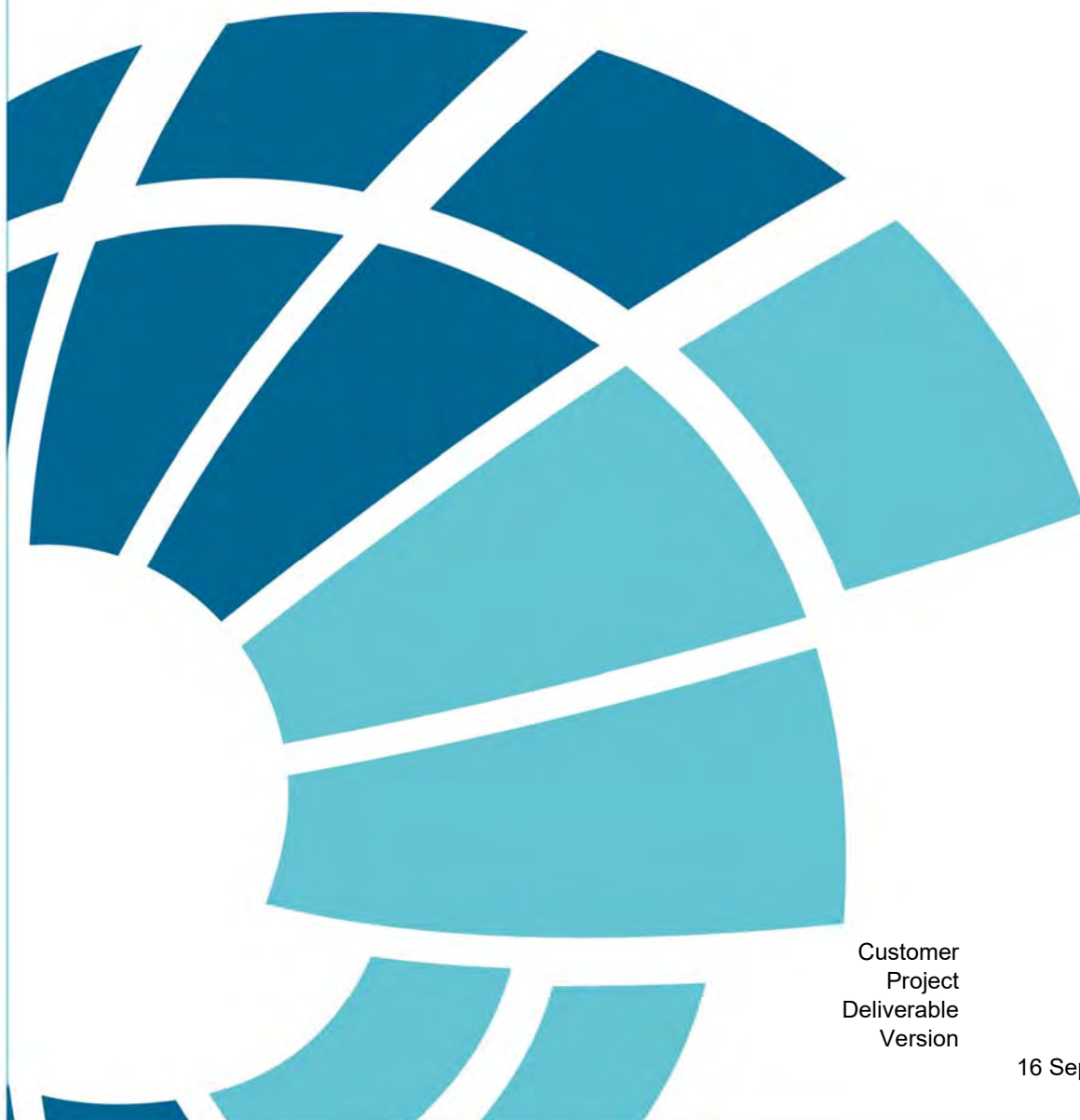


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1 Introduction

1.1 Development Proposal

The proposed Narrabeen Education Precinct (NEP) development includes redevelopment of Narrabeen North Public School (NNPS) and Narrabeen Sports High School (NSHS). The Public School and High School have been identified by the NSW Department of Education (DoE) as requiring upgrade works.

The works at NNPS upgrade the school, including demolition of existing buildings (Blocks H and J), construction of three (3) new buildings and refurbishment of three (3) existing buildings (Blocks B, K and V).

The works at NSHS upgrade the school, including addition of new two (2) storey extension to Building A, construction of new single storey amenities building and refurbishment of four (4) existing buildings (Buildings A, B, C and K).

This Development Application (DA) will seek consent for the following works at NNPS and NSHS:

- The works that are the subject of the Development Application (DA) at NNPS comprise:
 - Construction of a new two (2) storey building containing administration facilities, multi-purpose hall and out-of-school-hours care (OSHC) facility on the ground floor with staff facilities and amenities on the first floor.
 - New Covered Outdoor Learning Area (COLA).
- The works that are the subject of the DA at NSHS comprise:
 - Alterations and additions to Building A (Gymnasium) to create new stage for gymnasium and new two (2) storey addition comprising canteen, boys and girls changing rooms and staff room on the ground floor; and movement studio and two (2) new General Learning Spaces (GLS) on the first floor.

Other development works are occurring on the site under separate planning pathways including:

- Development without consent (REF).
- Exempt development.

The proposed development does not seek to increase staff or student numbers.

1.2 Site Description

The subject sites are located at 6 and 10 Namona Street, North Narrabeen (referred to as the Narrabeen Education Precinct) and within the local government area (LGA) of Northern Beaches Council ("Council"). The NEP has a total area of 9.84 hectares.

NNPS is located on the northern side of Namona Street, North Narrabeen and is legally described as Lot 3 Deposited Plan (DP) 1018621. NNPS is surrounded by residential dwellings to the east, grassed sporting fields (Warriewood Valley Sportsground) to the north and Northern Beaches Indoor Sports Centre to the west. NNPS contains two (2) Binishell domes (Block A and Block B) which are identified as a local heritage items under the 'Pittwater Local Environmental Plan 2014'. The two (2) Binishell Domes are listed as State significant on DoE's Section 170 Heritage and Conservation Register. The Double Binishell Dome (Block B) is listed on the State Heritage Register (SHR).

NSHS is located on the southern side of Namona Street and is legally described as Lot 12 DP 1119562. NSHS is surrounded by Pittwater Road to the east, Pittwater Sports Centre to the south and Mullet Creek to the west.



Figure 1.1 Site Aerial Map (Source: Nearmap)

1.3 Purpose of this Report

As shown in Figure 1.1, the NEP is located north of Narrabeen Lagoon on Mullet Creek, immediately upstream of confluence with the South Creek ocean entrance channel. Mainstream flood behaviour within the Narrabeen Lagoon catchment is defined by the 'Narrabeen Lagoon Flood Study' (BMT WBM, 2013) and 'Narrabeen Lagoon Floodplain Risk Management Study' (FRMS) (Cardno, 2019). In 2021, BMT also completed a flood impact assessment (FIA) for the placement of demountable buildings within the NSHS site, as documented in the 'Narrabeen Sports High School – Flood Impact Assessment' (BMT, 2021).

The results of the available flood studies indicate that the site is affected by mainstream flooding from Mullet Creek, as well as backwater flow from South Creek. However, due to its position north of the lagoon and on the lower reaches of Mullet Creek, flood behaviour at the NEP site is dominated by lagoon flood conditions.

As the NEP is located within an area that has been identified as flood prone, proposed works should be compatible with the predicted on-site flood risk and any changes to floodplain conditions as a result of the development have the potential to alter the distribution of floodwaters in the vicinity of the NEP. Accordingly, SINSW engaged BMT to undertake a Flood Risk and Impact Assessment for works proposed in this DA. This report details the methodology and findings of this assessment, including:

- Collection and review of available data and reports.
- Definition of existing (baseline) flood conditions.
- Definition of proposed flood conditions.
- Assessment of the potential impacts of the proposed development on existing flood behaviour.

- Flood emergency assessment.
- Responses to relevant flood-related requirements outlined in Council's 'Pittwater 21 Development Control Plan' (DCP).

2 Existing Flood Behaviour

2.1 Site Characteristics

The NEP is shown in Figure 2.1 and covers an area of approximately 9.87 ha that includes both the NSHS and NNPS sites. The Precinct is generally bounded by Mullet Creek to the west and Pittwater Road to the east, and is intersected by Namona Street. Mullet Creek flows in a south-easterly direction immediately along the western boundary of the NSHS site and discharges into South Creek (or Narrabeen Lagoon) downstream of Pittwater Road. Existing site plans for NNPS and NSHS, showing the current layout and land use within these sites, are provided in Annex A and Annex B respectively.

Existing topography across the NEP is shown in Figure 2.1. NSHS is within a lower lying floodplain area than NNPS and grades from the north-east to south-west towards Mullet Creek with ground levels ranging from 0.0 to 5.2 mAHD. The terrain within NNPS ranges from 1.9 to 5.2 mAHD.

2.2 Previous Flood Studies

2.2.1 Narrabeen Lagoon Flood Study (2013)

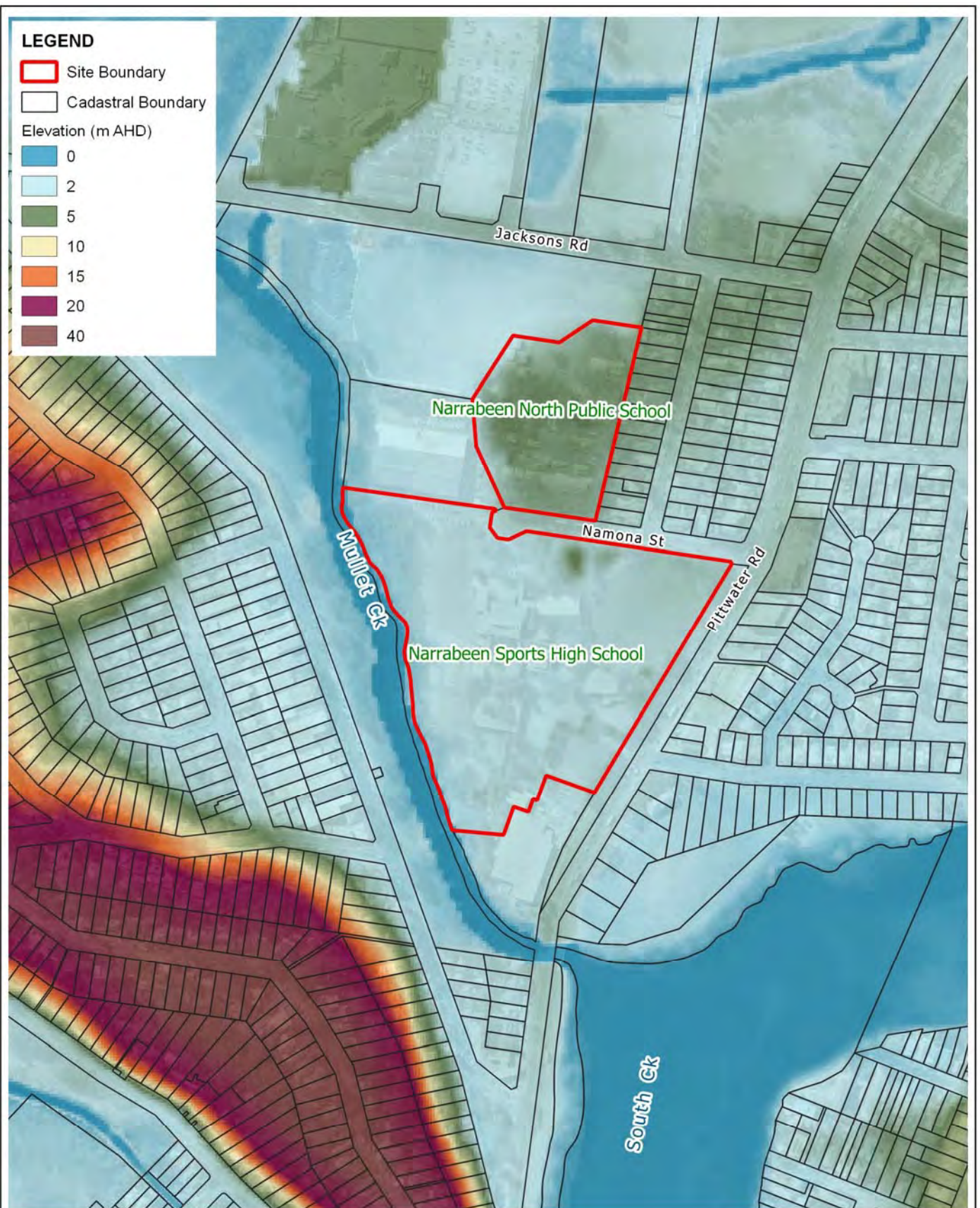
The 'Narrabeen Lagoon Flood Study' (BMT WBM, 2013) covers the catchment areas of Nareen Creek, Mullet Creek, Narrabeen Creek (incorporating Fern Creek), Deep Creek, Middle Creek (incorporating Snake Creek, Oxford Creek and Trefoil Creek) and South Creek (incorporating Wheeler Creek). It defines the flood behaviour within the study area using broad-scale modelling based on an XP-RAFTS hydrologic model of the catchment and a TUFLOW hydraulic model of the watercourses. Inflow hydrographs (produced by the results of the XP-RAFTS modelling) are distributed to every cell in the TUFLOW modelling. The model also simulates the dynamic processes of entrance berm scouring and breakout in order to represent the complex relationship between entrance dynamics and flood conditions in the lower catchment.

The 'Narrabeen Lagoon Flood Study' was used to establish design flood conditions for the study area for a range of design storm events including the 50%, 20%, 10%, 5%, 2%, 1%, 0.5%, 0.2% and 0.1% annual exceedance probability (AEP) floods, as well as the Probable Maximum Flood (PMF). Sensitivity of the flood behaviour to increased rainfall intensity and sea level rise associated with climate change was also assessed. Figure 2.2 shows the extent, boundary locations and model topography of the TUFLOW model from the flood study.

2.2.2 Narrabeen Lagoon Floodplain Risk Management Study and Plan (2019)

The 'Narrabeen Lagoon Floodplain Risk Management Study' (FRMS) (Cardno, 2019) built upon the previous work from the 'Narrabeen Lagoon Flood Study' to identify and assess flood risk management options for the catchment. The 'Narrabeen Lagoon Flood Study' was reviewed as part of the FRMS and it was determined that: *"all hydraulic parameters utilised within the Flood Study are appropriate... The model is therefore suitable for use within this FRMS."* (Cardno, 2019). Therefore, design flood results from the 'Narrabeen Lagoon Flood Study' were not updated as part of the FRMS.

Accordingly, the TUFLOW Model from the 'Narrabeen Lagoon Flood Study' (hereafter referred to as the Flood Study TUFLOW Model) forms the latest flood model for the catchment adopted for use by Council.



Title:
Site Locality and Topography

Figure:
2-1

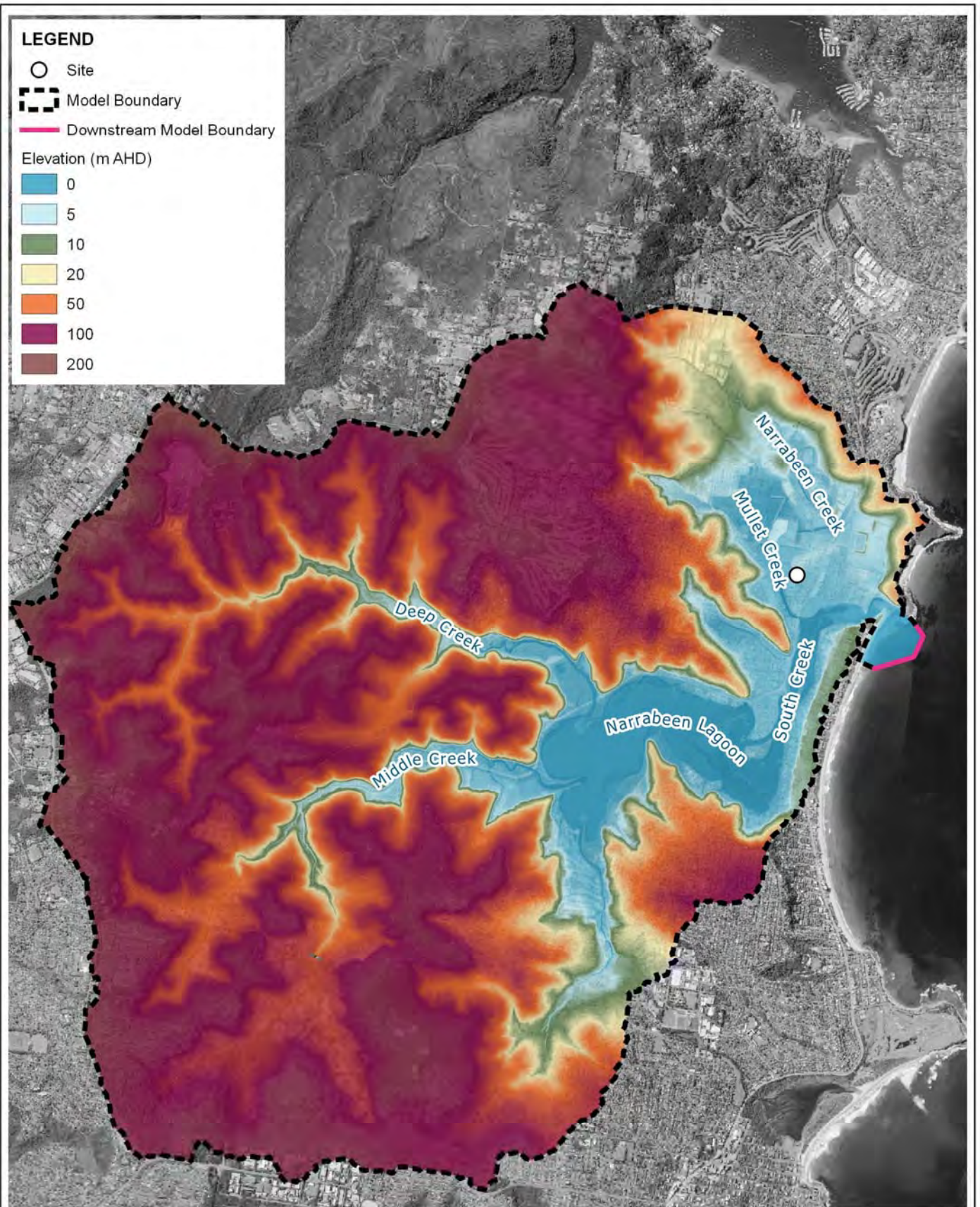
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Title:
TUFLOW Model Extents, Boundaries and Topography

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2.2.3 Narrabeen Sports High School Flood Impact Assessment (2021)

This flood impact assessment was completed for proposed demountable buildings within NSHS. The assessment was based on an updated version of the Flood Study TUFLOW model that included the following modifications:

- Inclusion of detailed site survey dated 11 November 2019 to define existing ground surface elevations within NSHS.
- Updates to model terrain within the site and any immediately adjoining areas not covered by the 2019 site survey based on available LiDAR data collected in 2016 (downloaded from Elvis Geographic Website¹).
- Updates to the hydraulic roughness (i.e. material polygons) within NSHS and its immediate vicinity based on aerial photography of the study area and site survey dated 11 November 2019. This included changes to the locations and extents of building footprints within NSHS. Consistent with the approach used for the Flood Study TUFLOW Model, building footprint areas were modelled using a very high Manning's 'n' roughness value. Manning's 'n' values consistent with those used in the 'Narrabeen Lagoon Flood Study' (BMT WBM, 2013) were applied within the model.

The updated version of the Flood Study TUFLOW model, hereafter referred to as the "NSHS TUFLOW model", was used to simulate the critical 50% AEP, 20% AEP, 1% AEP and PMF events. The results of the modelling defined on-site flood behaviour for existing and proposed flood conditions, as well as predicted impacts resulting from the proposed demountable buildings.

The results of the assessment indicated that NSHS is affected by mainstream flooding from Mullet Creek from frequent events such as the 50% AEP flood, and backwater flow from South Creek scaling in severity with flood magnitude up to the PMF.

2.3 TUFLOW Model Updates for Existing Conditions

The NSHS TUFLOW model was used as the basis for modelling completed as part of this Flood Risk and Impact Assessment for NEP. In order to assess the flood impacts of the proposed development at a more localised and detailed scale, it was necessary to update the NSHS TUFLOW model in the vicinity of the NEP as follows:

- **Existing Scenario TUFLOW model:** Establishes a baseline for flood conditions within the NEP that is representative of existing building footprints, local landforms and land use (discussed below).
- **Proposed Scenario TUFLOW model:** Uses the Existing Scenario TUFLOW Model with the proposed site modifications (discussed in Section 3) to define flood conditions with the proposed development in place.

No changes were made to model inflow or boundary conditions.

2.3.1 Model Topography

Detailed site survey undertaken by C.M.S Surveyors Pty Ltd and dated 16 March 2022 was provided to BMT by Enstruct as an electronic 3D Digital Terrain Model (DTM) (file reference: "18830Adetail 4.dwg"). It provides the most contemporary definition of ground surface elevations within the extent of the NEP. The 3D DTM was processed to develop a Digital Elevation Model (DEM) and used to define existing ground surface elevations on-site.

¹ <https://elevation.fsdf.org.au/>

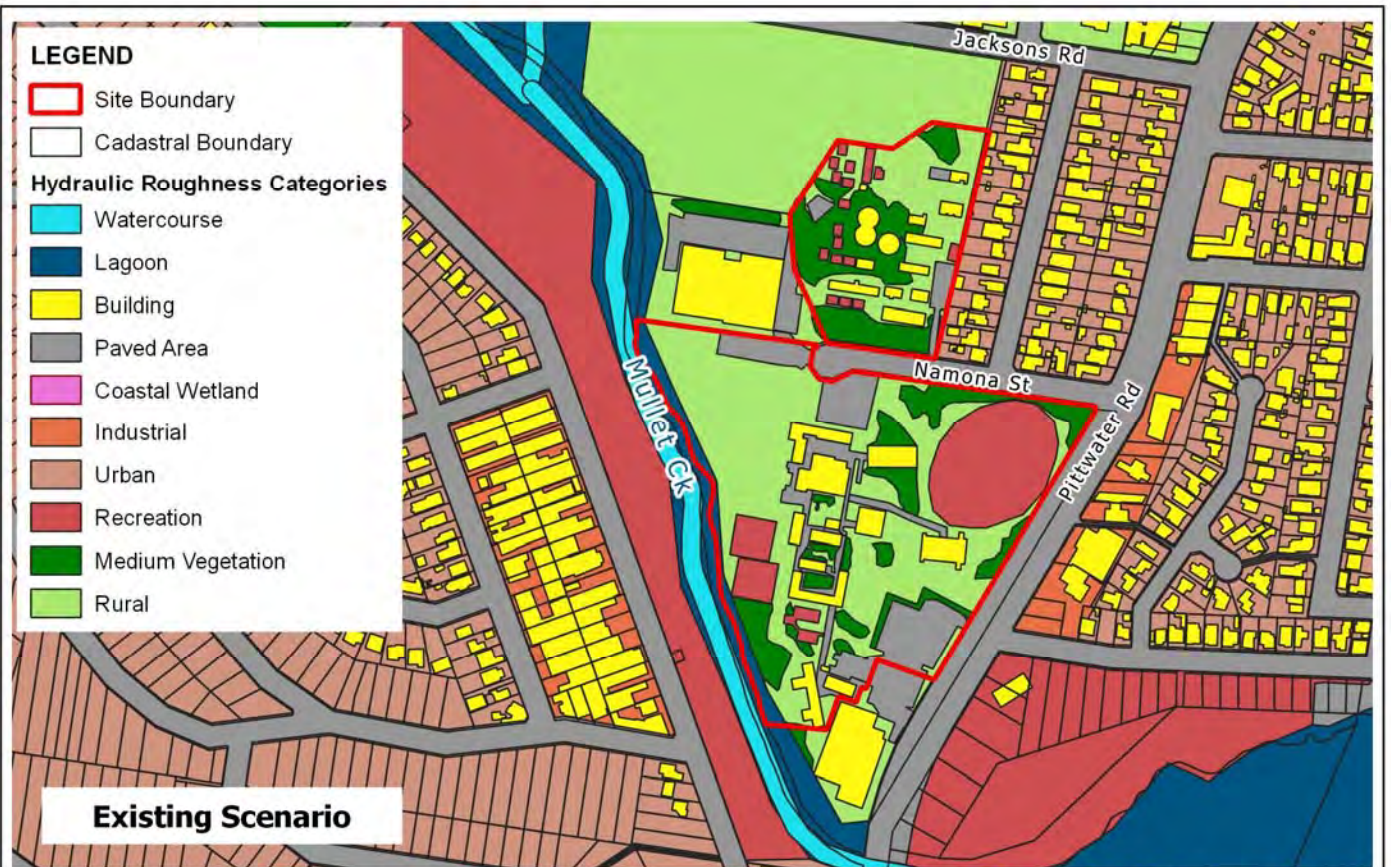
2.3.2 Hydraulic Roughness

The TUFLOW software employs material polygons (or zones) to define the variation in hydraulic roughness (or Manning's 'n' values) across the model. For the Existing Scenario TUFLOW model, the material polygons within the NEP were updated, as necessary, based on the detailed site survey dated 16 March 2022 (file reference: "18830Adetail 4.dwg") and existing site plans enclosed in Annex A and Annex B for NNPS and NSHS respectively. The spatial distribution of the hydraulic roughness zones is shown in Figure 2.3. Manning's 'n' values consistent with those adopted in the 'Narrabeen Lagoon Flood Study' (BMT, 2013) were applied for this assessment.

2.3.3 Representation of Buildings

For the Existing Scenario TUFLOW model, building footprints within the NEP were updated, as necessary, based on the detailed site survey dated 16 March 2022 (file reference: "18830Adetail 4.dwg") and existing site plans enclosed in Annex A and Annex B. The spatial distribution of building footprints is shown in Figure 2.3. A high Manning's 'n' roughness value was applied within building footprints, consistent with the approach and values adopted in the 'Narrabeen Lagoon Flood Study' (BMT, 2013).

Building floor levels (where available) were adopted across building footprints that provide a solid obstruction to flow. However, due to the elevated nature of existing demountables within the school sites (i.e. placement on piers rather than slab on ground construction), demountable buildings were not modelled as "buildings" within the hydraulic roughness categories but were instead modelled as layered flow constriction shapes with a "recreational" hydraulic roughness category applied to the ground surface beneath these structures. This approach allowed floodwaters to flow with some impedance underneath the structures but restricted higher flows at levels sufficient to meet the solid portion of the demountable structure.



Title: **TUFLOW Model Hydraulic Roughness Distribution**

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2.4 Existing Flood Conditions

2.4.1 Flood Behaviour

The Existing Scenario TUFLOW model was used to simulate the critical 1% AEP flood and PMF to establish existing (baseline) flood conditions within the NEP. Peak flood depths, velocities, and hazard and hydraulic categories for existing conditions have been mapped and are presented in Annex C.

Existing flood behaviour with the NEP can be summarised as follows:

- Mullet Creek is predicted to flow in a south-easterly direction into South Creek under normal conditions. Outflows from South Creek are restricted by the berm downstream of Ocean Street.
- During rare and extreme flood such as the 1% AEP flood and PMF, the NEP is inundated by high floodwater depths, with initial inundation occurring as a result of flow breakout from Mullet Creek and excess backwater flow from South Creek then contributing to flooding within the site.
- Predicted peak 1% AEP flood and PMF levels within the NEP are 2.96 mAH and 4.87 mAH, respectively.
- Within NNPS:
 - Inundation during the 1% AEP flood is restricted to areas immediately adjoining the western boundary of the site, whilst the remainder of the NNPS site is above the 1% AEP flood level. Maximum peak floodwater depths of 1.0 m are predicted, however floodwater depths are typically less than 0.5 m.
 - More significant extent of inundation is predicted during the PMF. Maximum peak floodwater depths exceed 2 m along the western site boundary, however floodwater depths across the majority of NNPS are generally less than 0.8 m.
- Within NSHS:
 - The majority of the site is inundated during both the 1% AEP flood and PMF.
 - Peak 1% AEP floodwater depths are typically less than 0.8 m, reaching a maximum of 4.6 m within Mullet Creek along the western boundary of the site.
 - More significant depths of inundation are predicted during the PMF, ranging up to a maximum depth of approximately 6 m within Mullet Creek along the western site boundary. However, depths are typically less than 2.2 m across the majority of the site.

2.4.2 Flood Hazard

The 'Australian Disaster Resilience Handbook 7 Managing the Floodplain: A Guide to Best Practice in Flood Risk Management in Australia' (AIDR, 2017) considers a holistic approach to consider flood hazards to people, vehicles and structures. It recommends a composite six-tiered hazard classification, reproduced in Figure 2.4 and summarised in Table 2.1. Existing flood hazard mapping for the 1% AEP flood and PMF is provided in Annex C.

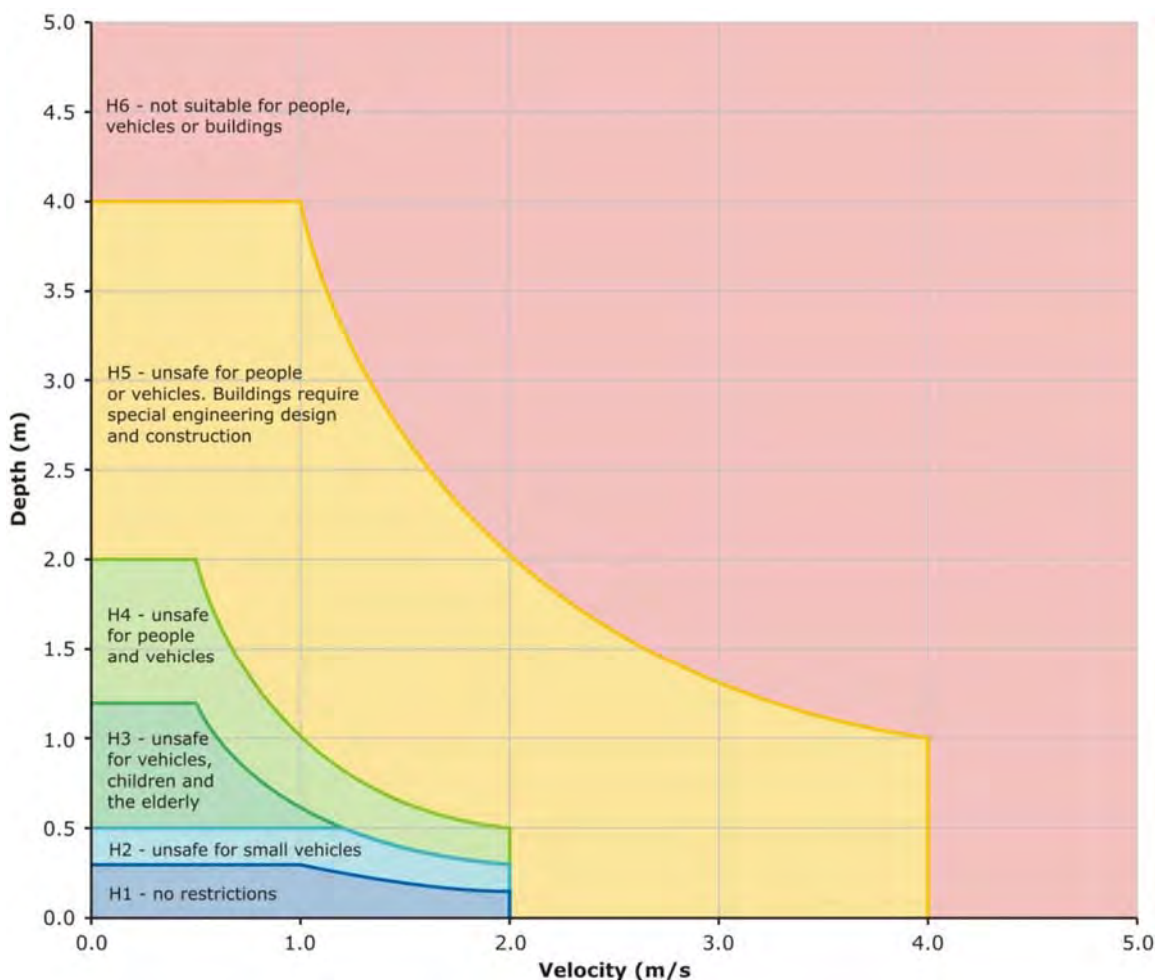


Figure 2.4 Combined Flood Hazard Curves

Table 2.1 Best Practice Provisional Flood Hazards (AIDR, 2017)

Hazard Classification		Description
H1	Depth less than 0.3 m and Velocity less than 2.0 m/s and Velocity*Depth less than 0.3 m ² /s	Generally safe for vehicles, people and buildings.
H2	Depth less than 0.5 m and Velocity less than 2.0 m/s and Velocity*Depth less than 0.6 m ² /s	Unsafe for small vehicles
H3	Depth less than 1.2 m and Velocity less than 2.0 m/s and Velocity*Depth less than 0.6 m ² /s	Unsafe for vehicles, children and the elderly.
H4	Depth less than 2.0 m and Velocity less than 2.0 m/s and Velocity*Depth less than 1.0 m ² /s	Unsafe for vehicles and people.

Hazard Classification		Description
H5	Depth less than 4.0m and Velocity less than 4.0 m/s and Velocity*Depth less than 4.0 m ² /s	Unsafe for vehicles and people. All building types vulnerable to structural damage. Some less robust building types vulnerable to failure.
H6	Depth greater than 4.0 m OR Velocity greater than 4.0 m/s OR Velocity*Depth greater than 4.0 m ² /s	Unsafe for vehicles and people. All building types considered vulnerable to failure.

The 1% AEP flood extent is confined to areas immediately along the western site boundary and is dominated by a H1 hazard classification within NNPS. During the PMF, hazard classification within NNPS is primarily H1 to H3, with higher hazard classifications of H4 and H5 restricted to areas immediately adjoining the western and northern site boundaries.

The 1% AEP flood hazard classification within NSHS is predominately H3 under existing conditions, where H3 hazard categorisation indicates that floodwaters are unsafe for children, vehicles and the elderly. Higher 1% AEP hazard classifications of H4 are predicted along the western boundary adjacent to Mullet Creek and lower hazard categories of H1 and H2 are predicted in the north-east and east of the site. The PMF hazard classification within the site is predominantly H5, indicating that floodwaters are unsafe for all people and vehicles and that buildings will require special engineering design and construction to withstand floodwaters.

The main access roads to the NEP – Pittwater Road and Namona Street – are predicted to be subject to up to H5 hazard conditions at the peak of the PMF. Under existing peak 1% AEP conditions, hazard conditions along these roads are classified as H1 to H3.

3 Proposed Flood Behaviour

3.1 Proposed Development

Proposed design plans for NEP were provided to BMT by JohnStaff for NSHS and NNPS on 16 September 2022 (refer Annex A and Annex B). These plans show the proposed development layout and land use within these sites (discussed further below) and informed this Flood Risk and Impact Assessment.

3.1.1 NNPS

The works at NNPS upgrade the school and include demolition of existing buildings (Blocks H and J), construction of three (3) new buildings, and refurbishment of three (3) existing buildings (Blocks B, K and V). Eleven (11) demountables will also be removed from the site.

The works that are the subject of the DA at NNPS comprise:

- Construction of a new two (2) storey building (Block D) containing administration facilities, multi-purpose hall and out-of-school-hours care (OSHC) facility on the ground floor with staff facilities and amenities on the first floor.
- New Covered Outdoor Learning Area (COLA).

Proposed finished floor levels for the two (2) new buildings within NNPS, referred to as Block D (part of this DA) and Block E (separate planning pathway) are set at:

- Ground Floor: 4.95 mAHD (i.e. above the PMF level of 4.87 mAHD).
- Level 1: 8.55 mAHD.

3.1.2 NSHS

The works at NSHS upgrade the school, including addition of new two (2) storey extension to Building A, construction of new single storey amenities building and refurbishment of four (4) existing buildings (Buildings A, B, C and K).

The works that are the subject of the DA at NSHS comprise:

- Alterations and additions to Building A (Gymnasium) to create new stage for gymnasium and new two (2) storey addition comprising canteen, boys and girls changing rooms and staff room on the ground floor; and movement studio and two (2) new General Learning Spaces (GLS) on the first floor.

The ground finished floor level (FFL) for the extension will be 2.55 mAHD, however all habitable new build space will be situated on Level 1 which has a proposed FFL of 5.90 mAHD.

3.2 TUFLOW Model Modifications for Proposed Conditions

The Existing Scenario TUFLOW model was updated (as specified in the sections below) to incorporate the proposed development based on the design plans provided by JohnStaff and enclosed in Annex A and Annex B. This updated model constituted the Proposed Scenario TUFLOW Model and was used to simulate proposed flood behaviour.

Please note that the works proposed as part of this DA, as well as other proposed works subject to separate planning pathways (e.g. removal of buildings proposed for demolition from the model to

enable placement of new buildings, etc) were included in the Proposed Scenario TUFLOW model to represent the ultimate development conditions within the NSHS and NNPS sites.

3.2.1 Model Topography

Ground surface elevations within the Existing Scenario TUFLOW model were also used for the Proposed Scenario TUFLOW model.

3.2.2 Hydraulic Roughness

Roughness zones were modified to represent the land use surfaces with the proposed development in place. The spatial distribution of the hydraulic roughness zones under proposed conditions is shown in Figure 2.3.

3.2.3 Representation of Buildings

Building footprints within the NEP were updated to either remove buildings and demountables proposed for demolition/removal, or include new building footprints and apply proposed finished ground floor levels. The spatial distribution of building footprints within the Proposed Scenario TUFLOW model is shown in Figure 2.3.

3.3 Proposed Flood Conditions

3.3.1 Flood Behaviour

The Proposed Scenario TUFLOW model was used to simulate the critical 1% AEP flood and PMF to establish proposed (post-development) flood conditions. Under proposed conditions, on-site inundation is predicted across NSHS and along the western boundary of NNPS (as per existing conditions). Peak flood depths, velocities, and hazard and hydraulic categories have been mapped and are presented in Annex D.

The general description of proposed peak flood behaviour across the NEP is predominantly as per existing conditions (discussed previously in Section 2.4.1). However, the following comments apply specifically to flood conditions relevant to the works that form part of the DA:

- Within NNPS:
 - The new two (2) storey building (Block D) is outside the 1% AEP flood extent.
 - PMF depths in the vicinity of Block D are typically less than 0.2 metres.
 - The predicted peak 1% AEP flood level of 2.96 mAHD and PMF level of 4.87 mAHD are both below the ground FFL of 4.95 mAHD for Block D.
- Within NSHS:
 - The predicted peak 1% AEP flood level of 2.96 mAHD and PMF level of 4.87 mAHD are both above the minimum FFL of the ground floor of the new build extension to Building A (i.e. 2.55 mAHD). However, the Level 1 FFL will be 5.90 mAHD and therefore above the predicted PMF level.

3.3.2 Flood Hazard

The hazard mapping for the 1% AEP and PMF event under proposed conditions is provided in Annex D. Post-development hazard conditions within NEP are as per existing conditions (discussed previously in Section 2.4.2).

3.3.3 Flood Function (Hydraulic Categorisation)

There are no prescriptive methods for determining which parts of the floodplain constitute floodway, flood storage and flood fringe. Descriptions of these terms within the 'Floodplain Development Manual' (NSW Government, 2005) are essentially qualitative in nature. Of difficulty is the fact that a definition of flood behaviour and associated impacts is likely to vary from one floodplain to another depending on the circumstances and nature of flooding within the catchment.

The flood function categories (also referred to as hydraulic categories) as defined in the 'Floodplain Development Manual' (NSW Government, 2005) are:

- **Floodway** - Areas that convey a significant portion of the flow. These are areas that, even if partially blocked, would cause a significant increase in flood levels or a significant redistribution of flood flows, which may adversely affect other areas.
- **Flood Storage** - Areas that are important in the temporary storage of the floodwater during the passage of the flood. If the area is substantially removed by levees or fill it will result in elevated water levels and/or elevated discharges. Flood Storage areas, if completely blocked would cause peak flood levels to increase by 0.1m and/or would cause the peak discharge to increase by more than 10%.
- **Flood Fringe** - Remaining area of flood prone land, after Floodway and Flood Storage areas have been defined. Blockage or filling of this area will not have any significant effect on the flood pattern or flood levels.

The 'Narrabeen Lagoon Flood Study' includes the following definitions of flood function:

- **Floodway** is defined as areas where the velocity depth product is greater than $0.50 \text{ m}^2/\text{s}$.
- **Flood storage** areas were identified as those areas that do not operate as floodways but where the depth of inundation exceeds 0.5 m.
- **Flood fringe** is the remaining area of land affected by flooding, after floodway and flood storage areas have been defined.

The 1% AEP and PMF hydraulic categorisation mapping for proposed conditions is presented in Annex D. It can be seen that:

- During the 1% AEP flood, Mullet Creek is a floodway but the majority of NSHS acts as a flood storage area, with small areas of flood fringe dispersed across the site and within the north-eastern corner adjacent to Pittwater Road. Within NNPS, only the western site boundary is impacted by flooding and is classified as a flood fringe area.
- During the PMF, the floodway extent increases (compared to the 1% AEP floodway extent) to cover portions of NSHS including areas along the western site boundary and major flow paths through the site. However, the remainder of the NSHS site is classified as flood storage. Within NNPS, a small area of the site adjoining the western boundary is classified as a floodway, however the majority of inundated areas within the site are classified as flood storage or flood fringe.

3.4 Climate Change Sensitivity Assessment

The 'Narrabeen Lagoon Flood Study' (BMT WBM, 2013) assessed the potential influence of climate change on the Narrabeen Lagoon system and the implications for medium and long term floodplain management. The following changes were assessed:

- increases to flood levels at the ocean boundary
- increases to the berm height

- increases in the initial Lagoon level
- increases in rainfall intensity.

A sensitivity analysis based on a worst-case climate change scenario (assuming a 30% increase in rainfall and a 0.9m increase in sea level) was completed for the 1% AEP flood as part of the 'Narrabeen Sports High School Flood Impact Assessment' (BMT, 2021). It was determined that the impacts of climate change resulted in peak 1% AEP plus climate change flood levels of 3.79 mAHD within both the NNPS and NSHS sites, i.e. 0.85 m higher than the present day 1% AEP flood level of 2.96 mAHD. These results are considered to also be applicable to inform this assessment.

3.5 Flood Impact Assessment

The proposed development has been considered in terms of potential adverse impacts on existing flood behaviour. Flood level and velocity difference mapping was prepared by subtracting peak existing water levels/velocities from peak proposed water levels/velocities and indicate the magnitude and location of changes associated with the proposed works. The flood level and velocity difference maps for modelled design events are provided in Annex E.

The change in peak flood level and velocity mapping provided in Annex E shows that the proposed development will result in minor modifications to design flood conditions, as follows:

- 1% AEP impact results indicate that the proposed development is only predicted to result in a reduction of flood extent as a result of the proposed works within NNPS and NSHS.
- No adverse impacts on peak 1% AEP flood levels within or outside the NEP are predicted. Furthermore, negligible changes to 1% AEP flood velocities are predicted as a result of the development.
- PMF impact results indicate that the proposed development will result in negligible flood level impacts.
- Increases in PMF velocities are predicted within surrounding areas outside of the NEP – notably around Namona Road and Pittwater Road. These impacts are relatively minor and very localised, and are predicted to result from the minor re-distribution of flow associated with the placement of structures in a flood storage area. Due to the minor nature of these PMF velocity impacts and because they are not accompanied by an associated increase in peak PMF level (or depth), it is not considered that there will be a material impact on the predicted flood risk across properties outside of the NEP.
- Impact results indicate that the proposed development will cause very minor and localised increases (and decreases) to PMF levels and velocities within South Creek and at the outlet into the Pacific Ocean. Increases in these locations are relatively minor and limited in extent, and will occur in large flood storage areas with high flood depths. These increases are considered to be more associated with the impact of the very minor flow distribution on the dynamic modelling of entrance berm conditions than any material increases themselves.

Overall, negligible 1% AEP impacts and minimal PMF impacts on existing flood risk are predicted by this assessment.

4 Pittwater 21 DCP Requirements

4.1 Development Control Requirements

Flood planning and development control requirements for this area within the Northern Beaches LGA are set out in *Section B3.11 Flood Prone Land* of Council's Pittwater 21 DCP. These include the following requirements applicable to flood prone land such as the NEP:

1. Development must comply with the prescriptive controls set out in the Development Control Matrix provided in the DCP. Where a property is affected by more than one Flood Risk Precinct, or has varying Flood Life Hazard Category across it, the assessment must consider the controls relevant at each location on the property.
2. Development on flood prone land requires the preparation of a Flood Management Report by a suitably qualified professional. Please note that this Flood Risk and Impact Assessment report forms the Flood Management Report for this DA.

The Development Control Matrix defines prescriptive controls based on the relevant land use type of the proposed development and the Flood Risk Precinct applicable to the site. Council divides flood prone land into three precincts: Low, Medium and High Flood Risk Precincts. Council's mapping classifies both the NSHS and NNPS sites as containing all three precincts, as shown in Figure 4.1 and Figure 4.2, respectively. Educational establishments, such as NSHS and NNPS, are classified by Council as "Vulnerable & Critical Use".

Accordingly, the NEP development should comply with the prescriptive controls in the Development Control Matrix that apply for vulnerable and critical development within each of these Flood Risk Precincts (where relevant to particular locations within these sites).



Figure 4.1 Flood Risk Precinct Mapping for NSHS (Source: [Northern Beaches Mapping \(nbcgis.azurewebsites.net\)](https://nbcgis.azurewebsites.net/))

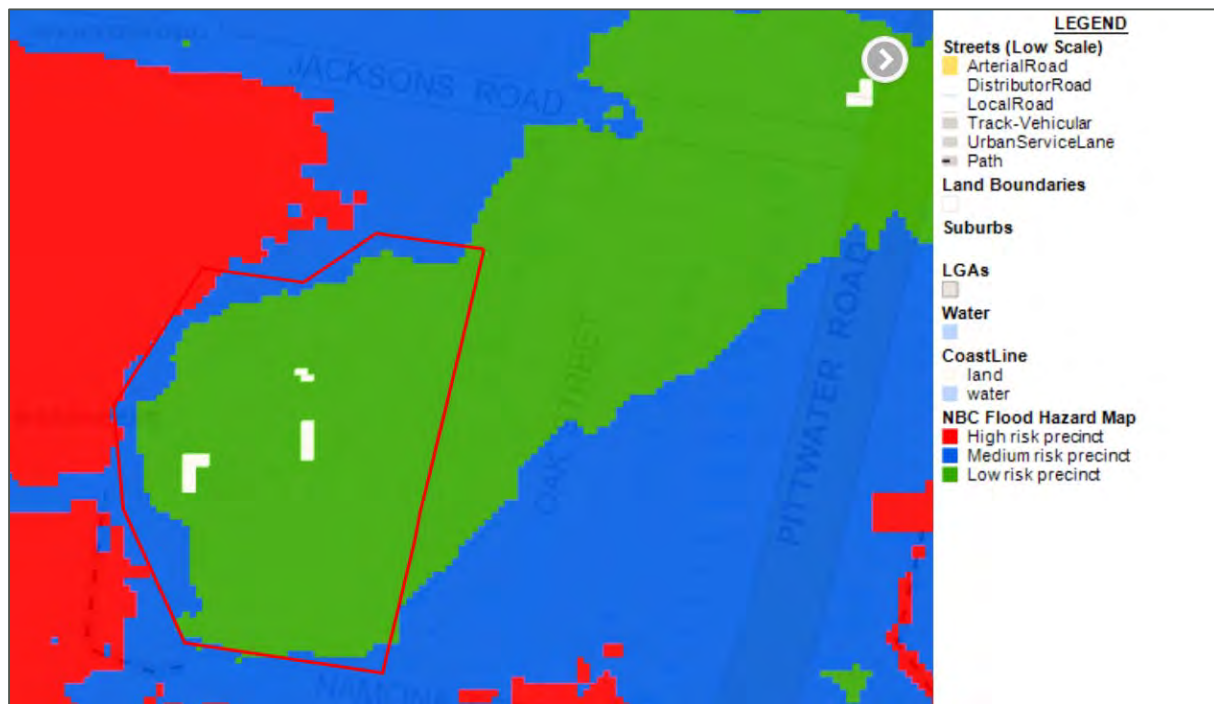


Figure 4.2 Flood Risk Precinct Mapping for NNPS (Source: [Northern Beaches Mapping \(nbcgis.azurewebsites.net\)](https://nbcgis.azurewebsites.net/))

4.2 Flood Planning Level and Finished Floor Level Requirements

The following flood planning level (FPL) and finished floor level (FFL) requirements apply to proposed buildings within the NEP to comply with the requirements of Pittwater 21 DCP:

- The FPL is defined by Council as the 1% AEP flood level plus 0.5 m freeboard. Accordingly, the FPL for the NEP is 3.46 mAHD (i.e. 1% AEP flood level of 2.96 mAHD plus 0.5 m).
- As an educational establishment, the NEP is classified as "Vulnerable & Critical Land Use". Minimum habitable FFLs must be set at the higher of the FPL and PMF level. Therefore the minimum FFL requirement for development within NEP is the PMF level of 4.87 mAHD.

Based on these requirements, minimum habitable FFL for the new builds within NSHS and NNPS that form part of this DA are listed in Table 4.2, along with proposed design levels and associated comments.

Table 4.1 FFL Requirements for Proposed Development

Building	FFL Requirement (mAHD)	Proposed Ground FFL (mAHD)	Proposed Level 1 FFL (mAHD)	BMT Comment
NNPS – Block D	4.87	4.95	8.55	Complies with FFL requirement.
NSHS – Building A extension	4.87	2.55 (minimum)	5.90	Whilst the ground floor level does not comply with FFL requirement due to functional requirements to connect to existing Building A facilities, Level 1 is located higher than the PMF level (refer further discussion below).

As outlined in Table 4.2, the ground floor level of the proposed Building A extension in NSHS does not comply with Council's FFL requirement due to functional requirements to connect to existing Building A facilities which are at a current minimum FFL of 2.42 mAHD. However, flood risk has been considered as part of the design process for NSHS, as discussed below:

- Refurbished and New Build accommodation that is below the PMF meets one of the following criteria:
 - Refurbished to align with current usage.
 - Refurbished accommodation requiring direct connection to Ground Floor Level.
 - New Build habitable accommodation requiring direct connection to Gymnasium.
 - New Build non-habitable accommodation.
- Habitable accommodation being refurbished at Ground Floor Level includes:
 - General Learning Spaces – existing function.
 - Metal/Woodwork Workshops – existing function.
 - Learning Support Unit – connection to Ground Floor preferred due to accessibility.
 - Storage – connections to Gymnasium and Sports Pitches required.
 - Gymnasium – existing function.
 - Control Room for Gymnasium – direct connection to Gymnasium required.
 - ALU Café – Connection to COLA required.
- The following New Build accommodation is located at 2.55 mAHD:
 - Student Change Rooms – require a direct connection to the Ground Level.
 - Student Toilets – direct connection at Ground Level.
 - First Aid Store – direct connection to Gymnasium required.
 - Stage – direct connection to Gymnasium required (at 3.32 mAHD).

4.3 Response to Prescriptive Development Controls

Flood-related development control requirements have been extracted from the Development Control Matrix in Pittwater 21 DCP and are listed in Table 4.2 together with BMT's responses addressing these requirements relevant to works that form part of this DA.

It is noted that consistent controls apply to Items A to E for vulnerable and critical land use within Low, Medium and High Flood Risk Precincts, and to Items F to G within Medium and High Flood Risk Precincts. Therefore, it was not considered necessary to distinguish which flood risk precinct individual components of the proposed DA works are located within and responses have been provided for the maximum Flood Risk Precinct requirement. It is also noted that Items D, F and H are not relevant to the proposed works for this DA and therefore have not been included in Table 4.2.

Table 4.2 Pittwater 21 Flood-related Development Controls and Responses for NEP

Requirement	Response
A. Flood Effects Caused by Development	
A1. Development shall not be approved unless it can be demonstrated in a Flood Management Report that it has been designed and can be constructed so that in all events up to the 1% AEP event:	
(a) There are no adverse impacts on flood levels or velocities caused by alterations to the flood conveyance; and	This assessment has considered the flood impacts of the proposed NEP development (refer Section 3.5). No adverse impacts are predicted in the 1% AEP flood. Minimal impacts are predicted in the PMF and are considered to result in negligible impact on existing flood risk.
(b) There are no adverse impacts on surrounding properties; and	No adverse impacts on surrounding properties are predicted during the 1% AEP flood (refer Section 3.5).
(c) It is sited to minimise exposure to flood hazard.	The proposed works within NNPS are sited either within a low flood hazard area (H1) in the 1% AEP flood or outside the 1% AEP flood extent. Building A extension within NSHS is sited in an area classified as H3 flood hazard during the 1% AEP flood, however the majority of the site is classified as H3 flood hazard during an event of this magnitude.
A2. Development shall not be approved unless it can be demonstrated in a Flood Management Report that in all events up to the 1% AEP event there is no net loss of flood storage. Consideration may be given for exempting the volume of standard piers from flood storage calculations. If Compensatory Works are proposed to balance the loss of flood storage from the development, the Flood Management Report shall include detailed calculations to demonstrate how this is achieved.	The proposed development within NNPS is located above the 1% AEP flood level. Therefore, this requirement is not applicable to works within the NNPS site. Compensatory flood storage works are not proposed within the NSHS site as part of this DA. The loss of available flood storage up to the 1% AEP flood level resulting from the Building A extension within NSHS is considered to be negligible, particularly when considered relative to the significant volume of available flood storage across the large floodplain in the Narrabeen Lagoon catchment. This is also evidenced by the results of the flood impact assessment (refer Section 3.5) which demonstrates negligible impacts on flood behaviour in the 1% AEP flood as a result of the development (including any loss of flood storage associated with the proposed Building A extension).

Requirement	Response
B. Building Components and Structural Soundness	
B1. All buildings shall be designed and constructed with flood compatible materials in accordance with "Reducing Vulnerability of Buildings to Flood Damage: Guidance on Building in Flood Prone Areas", Hawkesbury-Nepean Floodplain Management Steering Committee (2006).	To be considered as part of the detailed design process.
B2. All new development must be designed and constructed to ensure structural integrity up to the Flood Planning Level, taking into account the forces of floodwater, wave action, flowing water with debris, buoyancy and immersion. Where shelter-in-place refuge is required, the structural integrity for the refuge is to be up to the Probable Maximum Flood level. Structural certification shall be provided confirming the above.	As discussed in Section 5, shelter-in-place refuge is proposed within new build Block D in NNPS and Level 1 of the Building A extension within NSHS. Therefore, structural certification by a suitably qualified structural engineer is required for these proposed buildings up to the PMF level as part of the detailed design process.
B3. All new electrical equipment, power points, wiring, fuel lines, sewerage systems or any other service pipes and connections must be waterproofed and/or located above the Flood Planning Level. All existing electrical equipment and power points located below the Flood Planning Level within the subject structure must have residual current devices installed that turn off all electricity supply to the property when flood waters are detected.	To be considered as part of the detailed design process based on the FPL of 3.46 mAHD.
C. Floor Levels	
C2. All floor levels within the development shall be at or above the Probable Maximum Flood level or Flood Planning Level (FPL), whichever is higher.	<p>The FFL of 4.95 mAHD for Block D in NNPS is higher than the PMF level of 4.87 mAHD.</p> <p>The Level 1 FFL of 5.90 mAHD of the proposed Building A extension in NSHS is higher than the PMF level. However, the ground floor level is proposed at 2.55 mAHD and does not comply with Council's FFL requirement set at the PMF level of 4.87 mAHD due to functional requirements to connect to existing Building A facilities with a current minimum FFL of 2.42 mAHD (refer discussion in Section 4.2).</p>

Requirement	Response
C3. All new development must be designed and constructed so as not to impede the floodway or flood conveyance on the site, as well as ensuring no net loss of flood storage in all events up to the 1% AEP event.	<p>The proposed development within NNPS is located above the 1% AEP flood level. Therefore, this requirement is not applicable to works within the NNPS site.</p> <p>Within NSHS, no development is proposed within the 1% AEP floodway (shown in the mapping in Annex D) and will therefore not impede the floodway or flood conveyance within the site.</p> <p>The loss of available flood storage within NSHS up to the 1% AEP flood level resulting from the Building A extension is considered to be negligible relative to the significant volume of available flood storage across the large floodplain in the Narrabeen Lagoon catchment. This is also evidenced by the results of the flood impact assessment (refer Section 3.5) which demonstrates negligible impacts on flood behaviour in the 1% AEP flood as a result of any loss of flood storage due to the proposed development.</p>
E. Emergency Response	
E1. If the property is affected by a Flood Life Hazard Category of H3 or higher, then Control E1 applies and a Flood Emergency Assessment must be included in the Flood Management Report.	A Flood Emergency Assessment has been completed and is documented in Section 5.
E2. If a shelter-in-place refuge is required, it must contain as a minimum: sufficient clean water for all occupants; portable radio with spare batteries; torch with spare batteries; a first aid kit; emergency power; and a practical means of medical evacuation.	To be considered as part of the detailed design process.
G. Storage of Goods	
G1. Hazardous or potentially polluting materials shall not be stored below the Flood Planning Level unless adequately protected from floodwaters in accordance with industry standards.	To be considered as part of the detailed design process based on the FPL of 3.46 mAHD.

5 Flood Emergency Assessment

5.1 Overview

Both the NSHS and NNPS sites (or part thereof) are subject to medium to high mainstream flood hazard in rare and extreme events (e.g. PMF). Ground floor levels within the extension to Building A in NSHS is proposed below both the 1% AEP flood and PMF levels due to functional reasons outlined previously in Section 4.2. Proposed new buildings within NNPS will have FFLs that are elevated above the peak level of the PMF. However, the NNPS site is surrounded by higher hazard floodplain areas. Therefore, consideration of the flood risk that future users of the proposed development within both NSHS and NNPS may be exposed to during a major flood event is required.

The current hours of operation of these schools is between 9am and 3pm, with the school sites accessible from 7:30am to 6:30pm weekdays and restricted access outside of these hours (Ason Group, 2022a and 2022b). Therefore, typical occupation of the school sites is only expected during hours of accessibility on weekdays and limited occupants should be on-site outside of these times during weekdays or at any time on the weekend.

5.2 Risk Assessment Categories

The Flood Life Hazard Categories defined within the Pittwater 21 DCP are consistent with the peak flood hazard mapping provided in Annex D and range up to H4 and H5 within the NNPS and NSHS sites, respectively. As these sites are predicted to contain H3 or higher flood hazard classifications, an emergency management assessment is required to address Council's flood-related DA requirements.

Emergency response management considerations specific to the works within NEP covered by this DA are outlined in the sections below. This includes a broad assessment of the flood risk to occupants of the proposed development for events up to and including the PMF, potential for site evacuation, refuge requirements and guidance on what to do in a flood event.

5.3 Evacuation Feasibility

Proposed pedestrian and vehicular ingress and egress points for the NEP are shown in the design plans enclosed in Annex A and Annex B and are as follows:

- NSHS:
 - Pedestrian ingress/egress from the site is possible along a number of locations, including along Namona Street, as well as via pedestrian bridge crossings of Mullet Creek at the north-western and south-western corners of the site.
 - Vehicular access to the site can occur at two locations along Pittwater Road (at the intersection with Lake Park Road and further south), as well as two locations at the western end of Namona Street.
- NNPS:
 - Pedestrian ingress/egress from the site is possible from Pittwater Road and Namona Street, as well as from the west from the Northern Beaches Indoor Sports Centre (NBISC) site.
 - Vehicular access to the site is from Namona Street in the south-eastern corner of the NNPS.

Flood inundation is predicted along these roadways during the 1% AEP flood and PMF and, more significantly, flooded areas are classified as being up to a H5 hazard classification during the PMF. This

indicates that site ingress and egress during this extreme flood would be hydraulically unsafe for people and vehicles.

Current best practice is to avoid entering floodwaters wherever possible, and under no circumstances should floodwater be considered “safe”. As the site is located in the downstream area of the Narrabeen Lagoon catchment, a warning time of up to 1.5 hours would be afforded from the initial onset of rain until the roadway is cut in the PMF. However, it would require considerable coordination and effort to evacuate the large numbers of students and staff that are expected on-site during hours of operation (and potentially during hours of accessibility); and considering the short evacuation warning time available, neither pedestrian nor vehicular egress is recommended for students, staff and visitors after the onset of a rainfall event.

Shelter-in-place is the proposed flood emergency response following the onset of a severe rainfall event. This is in line with the Flood Life Hazard Category of the site and requirements outlined in Pittwater 21 DCP (refer requirement for E1 in Table 4.2).

The following sections outline the appropriate emergency responses for action before and after the onset of rainfall, and/or upon the receipt of a flood warning.

5.4 Emergency Response Before the Onset of Rainfall

The NNPS and NSHS should avoid the need for evacuation, if at all possible, by cancellation of operation (before the schools are open) or early release of students (during hours of operation) if extreme rainfall (e.g. severe weather warning for torrential rain and/or flash flooding) is predicted, or flood watches or warnings are in place.

If cancellation of operation is not possible (e.g. school is operational when warnings are issued) or unable to be completed, the schools should act as quickly as possible to arrange for evacuation of students, staff and visitors if a Flood Warning or Flood Bulletin for the area is issued by the BoM or SES.

5.5 Emergency Response After the Onset of Rainfall

Evacuation of NSHS and NNPS is not recommended after the onset of a rainfall event due to the limited available warning time, rapid rate of rise of floodwaters and high hazard conditions on-site and/or along potential evacuation routes during extreme floods. Staff, visitors and students should instead shelter-in-place within habitable sections of the schools that are elevated above the peak PMF level and provide safe refuge. Specific to the works that form part of this DA, Level 1 of the Building A extension within NSHS and Block D within NNPS all comply with this requirement and therefore, satisfy Council's requirement to provide a potential evacuation location to shelter-in-place above the peak PMF level.

5.6 Shelter-in-Place Requirements

Floodwaters on-site are likely to remain in place for durations in excess of 9 hours during a PMF, and the schools will be isolated during this time. As such, shelter-in-place should only be undertaken in the event that prior early evacuation of the site or cancellation of operation has not occurred.

Pittwater 21 DCP outlines emergency response requirements for new developments, including the following requirements for shelter-in-place refuge areas:

- Floor level is at or above the PMF level.
- Floor space provides at least 2m² per person where the expected duration of flooding exceeds 6 hours in the PMF.

- Accessible to all people on the site, plainly evident, and self-directing, with sufficient capacity of access routes for all occupants without reliance on an elevator.
- Must contain as a minimum: sufficient clean water for all occupants; portable radio with spare batteries; torch with spare batteries; a first aid kit; emergency power; and a practical means of medical evacuation.

Therefore, in order to provide conditions suitable for long-term refuge (i.e. greater than 6 hours), it should be ensured that, if required, sufficient supplies (as listed above) are available for occupants seeking flood refuge within Block D in NNPS and on Level 1 of the Building A extension in NSHS to be able to cope with a period of isolation during a particularly large flood and that there are nominated flood wardens to coordinate the response.

Within the extension to Building A, the internal area associated with the PE GLS rooms and Movement Studio combined is approximately 300 m². This area encompasses all habitable new build space on Level 1 which has a proposed FFL of 5.90 mAHD (i.e. above the predicted PMF level of 4.87 mAHD). Based on the available floor space of approximately 300 m² and Council's 2 m² per person requirement for the predicted duration of PMF inundation in this area, up to 150 people could be accommodated above the PMF level within Level 1 of Building A of NSHS. It is also noted that Level 1 of the Building A extension is proposed to be accessible from the ground floor via both stairs and a lift.

Based on available floor space within the ground floor and Level 1 of the new two (2) storey Block D of NNPS, it is expected that this area is sufficient to accommodate the maximum number of likely occupants within this building as a flood refuge and comply with Council's floor space requirements, i.e. at least 2 m² floor space will be available for all staff, visitors and students in Block D.

Detailed flood emergency response plans should be prepared for NSHS and NNPS (or any existing flood emergency response plans for these schools be updated to reflect the proposed redevelopment of the sites) outlining the proposed strategy for flood emergency management for these schools. This may include provisions for accessibility of shelter-in-place refuge, consideration of flood warning systems and serviceability requirements.

Furthermore, Council requires that all shelter-in-place refuge buildings demonstrate structural stability up to the PMF level through verification by a suitably qualified structural engineer and compliance with the Building Code of Australia. This requirement is therefore applicable to this development.

6 Conclusion

This report documents the methodology and outcomes of the Flood Risk and Impact Assessment completed for the proposed Narrabeen Education Precinct (NEP) development including redevelopment of Narrabeen North Public School (NNPS) and Narrabeen Sports High School (NSHS). It satisfies the requirements of the flood management report required by Council for the proposed works that are the subject of this DA.

TUFLOW modelling of existing and proposed conditions was undertaken to define flood risk within the NEP, and assess the potential impacts of the proposed development on flood behaviour. No adverse impacts on existing 1% AEP flood risk are predicted within the site or on surrounding properties and/or infrastructure as a result of the proposed works that form part of this DA. Any impacts of the development during the PMF are predicted to be minimal, with negligible impact on existing flood risk.

Assessment of the development design against flood-related requirements of Council's Pittwater 21 DCP was also completed and indicates that the development can comply with these requirements, with the exception of the ground FFL for the Building A extension within NSHS. The ground FFL of this building extension is proposed to be located at a minimum finished floor level of 2.55 mAHD that is lower than the PMF level of 4.87 mAHD. However, this ground floor level is governed by functional requirements to connect to existing Building A facilities, and it is noted that the Level 1 FFL of the Building A extension is proposed at 5.90 mAHD and would provide a suitable flood refuge above the PMF level.

A Flood Emergency Assessment was also completed for the proposed development and is documented in this report. It provides information on flood risk to occupants of the proposed development for events up to and including the PMF, potential for site evacuation, shelter-in-place requirements and preliminary guidance on how to respond in the event of a flood. It is recommended that detailed flood emergency response plans be prepared for NSHS and NNPS (or any existing plans for the schools be updated to reflect the proposed redevelopment of the sites) prior to school operation within these proposed new builds.

7 References

Ason Group (2022a). Narrabeen Education Precinct – Narrabeen North Public School Transport Assessment.

Ason Group (2022b). Narrabeen Education Precinct – Narrabeen Sports High School Transport Assessment.

BMT (2021). Narrabeen Sports High School Flood Impact Assessment.

BMT WBM (2013). Narrabeen Lagoon Flood Study. Prepared for Warringah Council and Pittwater Council.

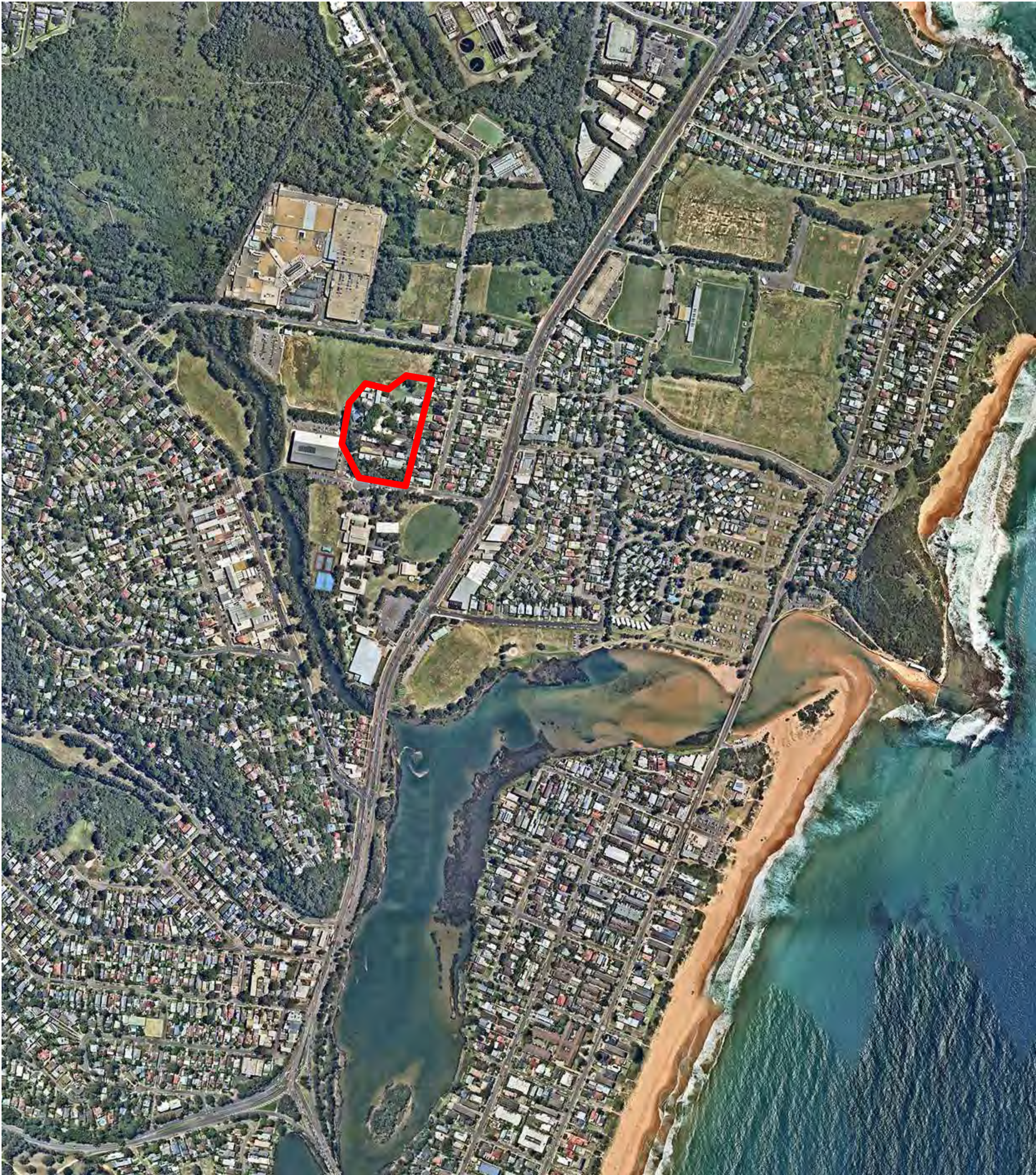
Cardno (2019). Narrabeen Lagoon Floodplain Risk Management Study. Prepared for Northern Beaches Council.

NSW Government (2005). Floodplain Development Manual: The management of flood liable land.

Northern Beaches Council (last amended January 2021). Pittwater 21 Development Control Plan.

Northern Beaches Council (formerly Pittwater Council) (2014). Pittwater LEP 2014.

Annex A Site and Design Plans for NNPS



SOURCE: NEARMAP

NARRABEEN NORTH PUBLIC SCHOOL

6 NAMONA STREET, NORTH NARRABEEN NSW 2101
LOT 3, D.P.10/8621

SHEET LIST- NARRABEEN NORTH PUBLIC SCHOOL - DA				
SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	REVISION DESCRIPTION
0000 - GENERAL & SITE INFORMATION				
DA-P-0101	COVER SHEET, LOCATION PLAN & DRAWING LIST	B	23/08/2022	DA SUBMISSION
DA-P-0200	SITE ANALYSIS	A	18/08/2022	DA SUBMISSION
DA-P-0210	PHOTOMONTAGE - NEW ADMIN & HALL	A	18/08/2022	DA SUBMISSION
DA-P-0220	MATERIALS BOARD - NEW ADMIN & HALL	A	18/08/2022	DA SUBMISSION
DA-P-0302	3D SITE TOPOGRAPHY HEIGHT PLANE	A	18/08/2022	DA SUBMISSION
DA-P-0303	3D SITE TOPOGRAPHY HEIGHT PLANE - NEW ADMIN & HALL	A	18/08/2022	DA SUBMISSION
DA-P-0521	NEW SITE PLAN - SCHOOL - GROUND FLOOR	B	23/08/2022	DA SUBMISSION
DA-P-0522	NEW SITE PLAN - SCHOOL - LEVEL 01	B	23/08/2022	DA SUBMISSION
DA-P-0523	NEW SITE PLAN - SCHOOL - ROOF	B	23/08/2022	DA SUBMISSION
DA-P-0600	SHADOW DIAGRAMS	A	18/08/2022	DA SUBMISSION
1000 - GA PLANS				
DA-P-1040	NEW HALL & ADMIN - GROUND FLOOR	A	18/08/2022	DA SUBMISSION
DA-P-1041	NEW HALL & ADMIN - LEVEL 1	B	23/08/2022	DA SUBMISSION
DA-P-1042	NEW HALL & ADMIN - ROOF PLAN	B	23/08/2022	DA SUBMISSION
3000 - ELEVATIONS & SECTIONS				
DA-P-3001	NEW ADMIN HALL - SITE ELEVATIONS	A	18/08/2022	DA SUBMISSION
DA-P-3002	NEW GLS HUB - SITE ELEVATIONS	A	18/08/2022	DA SUBMISSION
DA-P-3040	NEW ADMIN & HALL - GA ELEVATIONS	A	18/08/2022	DA SUBMISSION
DA-P-3041	NEW HALL & ADMIN - GA ELEVATIONS	B	23/08/2022	DA SUBMISSION
DA-P-3042	NEW HALL & ADMIN - GA SECTIONS	A	18/08/2022	DA SUBMISSION

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- Any discrepancies should be immediately referred to the Architect. All work to comply with N.C.C. statutory authorities and relevant Australian Standards.
- Refer also to the Model Disclaimer on the Cover Sheet.

No	DATE	REVISIONS	BY
A	18/08/2022	DA SUBMISSION	JO
B	23/08/2022	DA SUBMISSION	JO

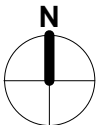
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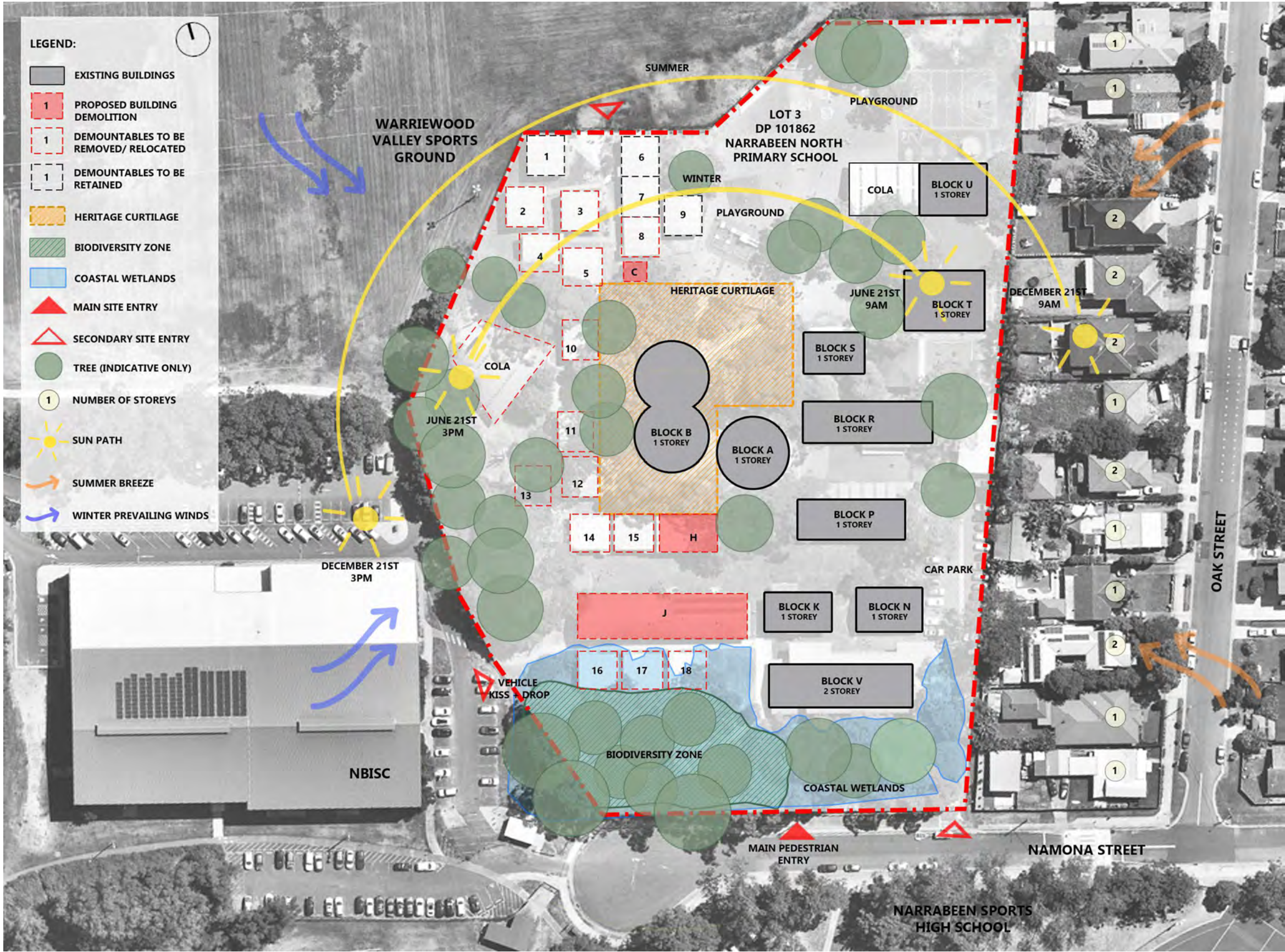
PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

DETAILS		
DRAWN	JO	SCALE
CHECKED	RF	
APPROVED	<APPROVER>	@ A1



TITLE
COVER SHEET, LOCATION PLAN & DRAWING LIST

DRAWING NUMBER	REVISION
DA-P-0101	B



SITE ANALYSIS - NARRABEEN NORTH PUBLIC SCHOOL

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PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

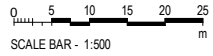
DETAILS
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CHECKED JO
APPROVED Approver

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TITLE
SITE ANALYSIS

DRAWING NUMBER
DA-P-0200

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A





VIEW FROM ENTRY PATH TO NEW ADMIN, HALL & COLA

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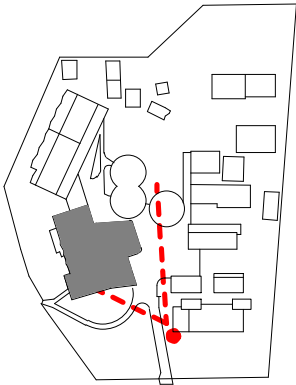


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NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

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TITLE
PHOTOMONTAGE - NEW ADMIN & HALL

DRAWING NUMBER	REVISION
DA-P-0210	A

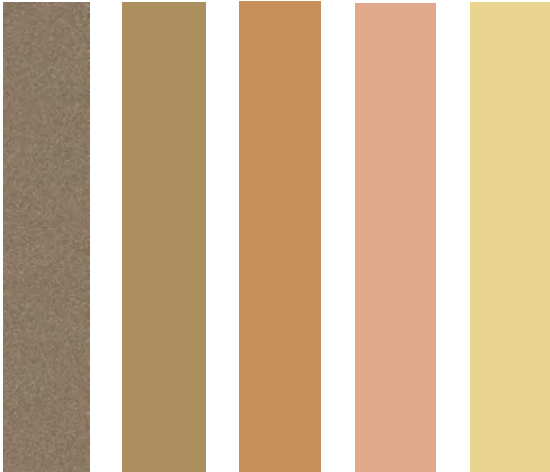




FC - 01
Fibre Cement Cladding



FC - 02



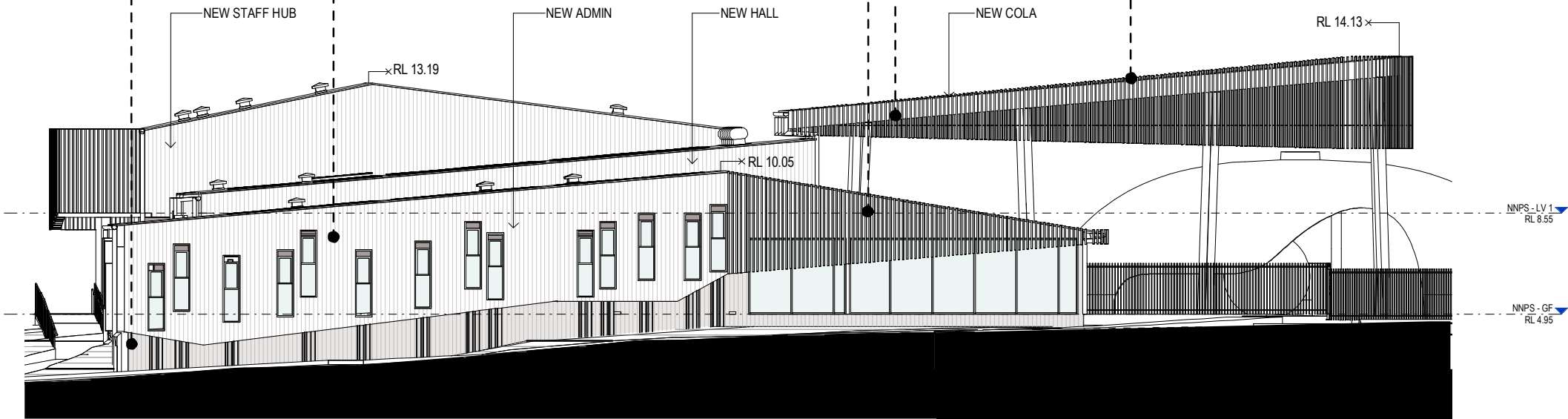
PC - 01
Powdercoatings to Aluminium Battens



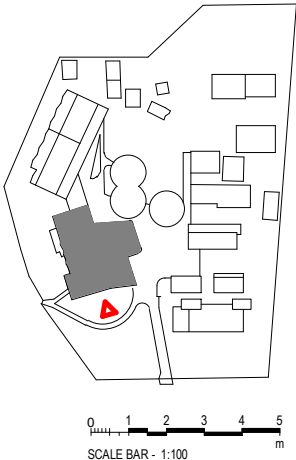
MR-01 : Colorbond Metal Roof,
Flashing, Fascias & Gutters



DP-01 : Colorbond
Downpipes



1 NNPS - SOUTH ELEVATION - NEW HALL + ADMIN - MATERIALS - DA
SCALE 1:100



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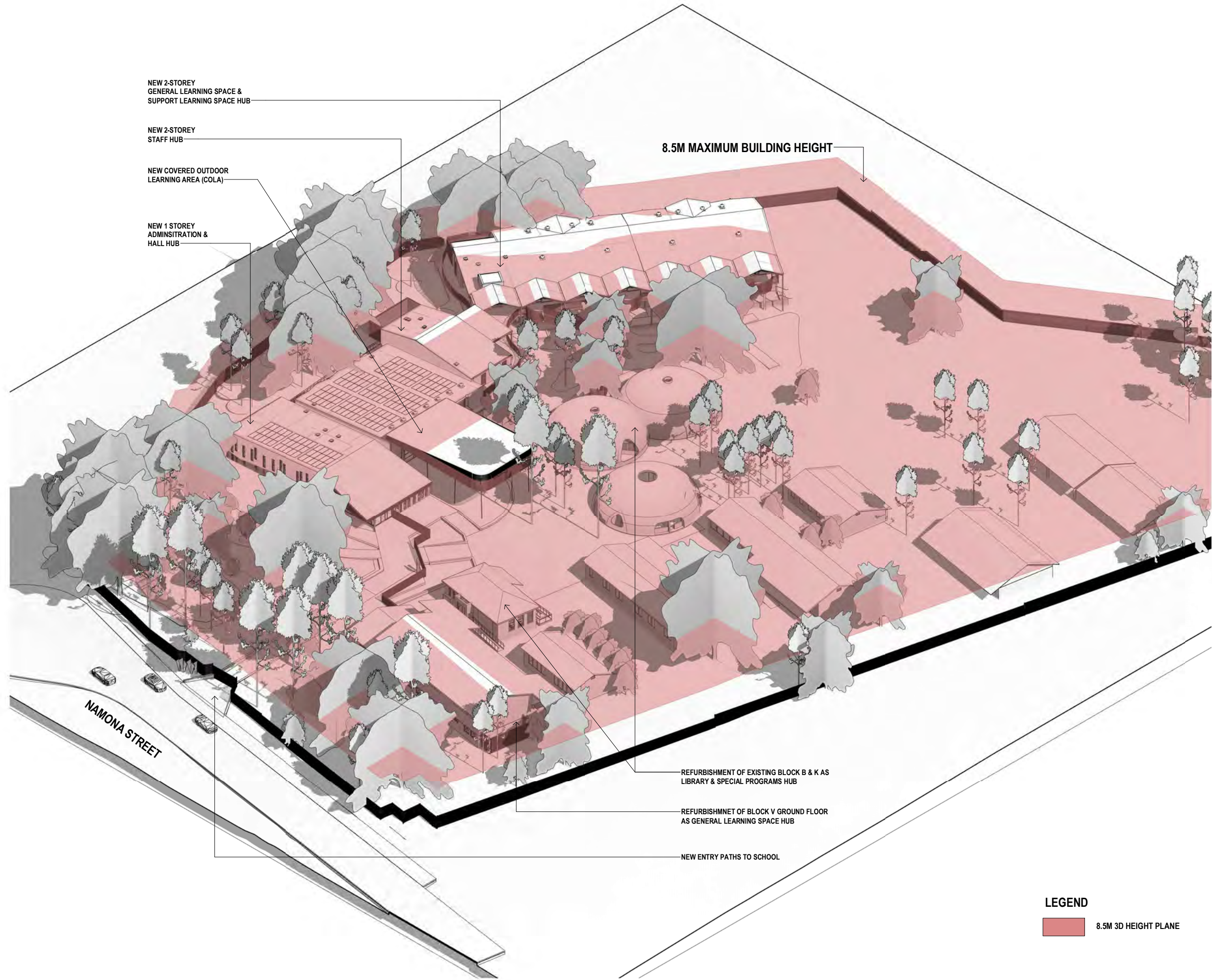
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NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

DETAILS
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CHECKED RF
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TITLE
MATERIALS BOARD - NEW ADMIN & HALL

DRAWING NUMBER
DA-P-0220
REVISION
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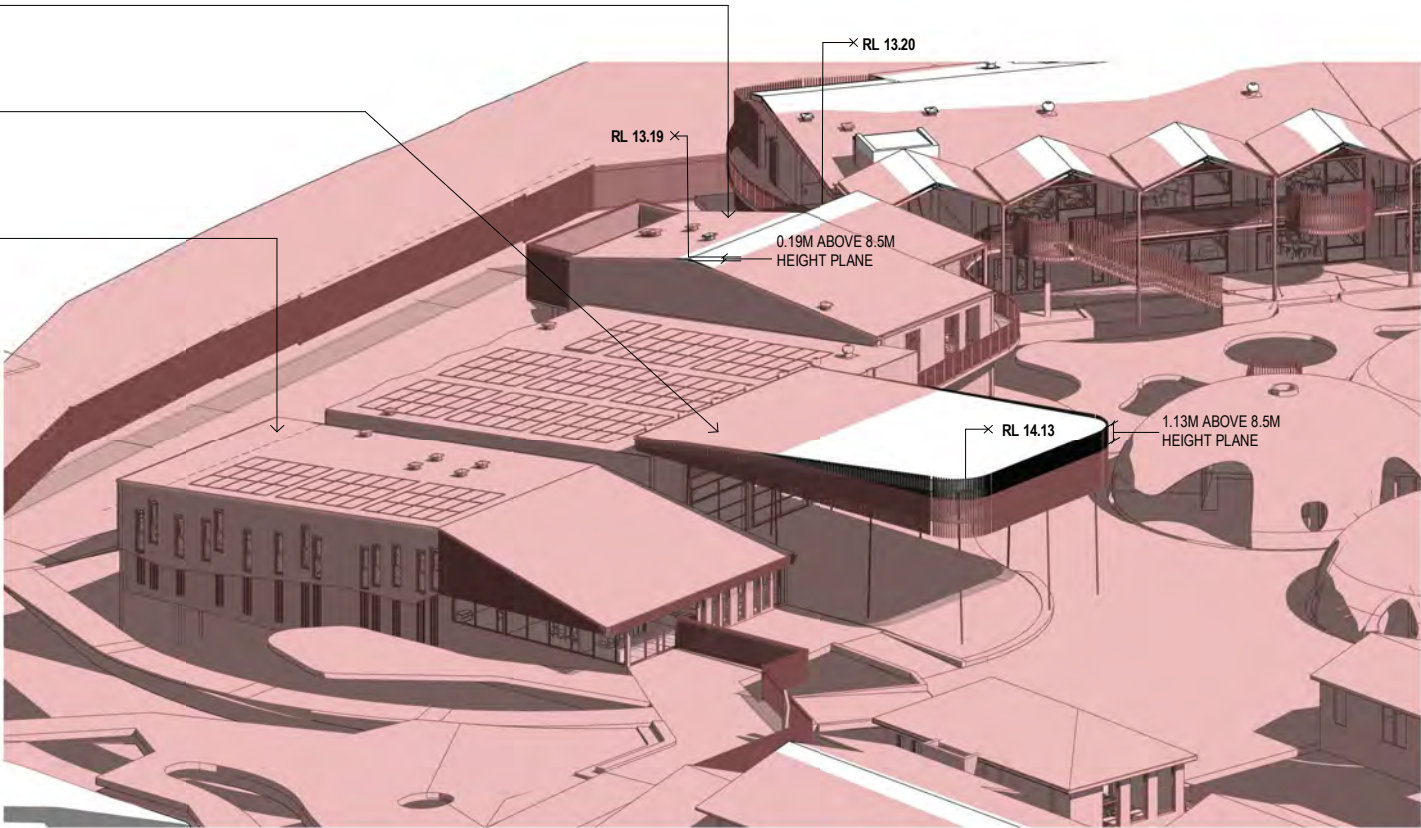
TITLE
3D SITE TOPOGRAPHY HEIGHT PLANE

DRAWING NUMBER
DA-P-0302
REVISION
A

NEW 2-STOREY
STAFF HUB

NEW COVERED OUTDOOR
LEARNING AREA (COLA)

NEW 1 STOREY
ADMINISTRATION &
HALL HUB

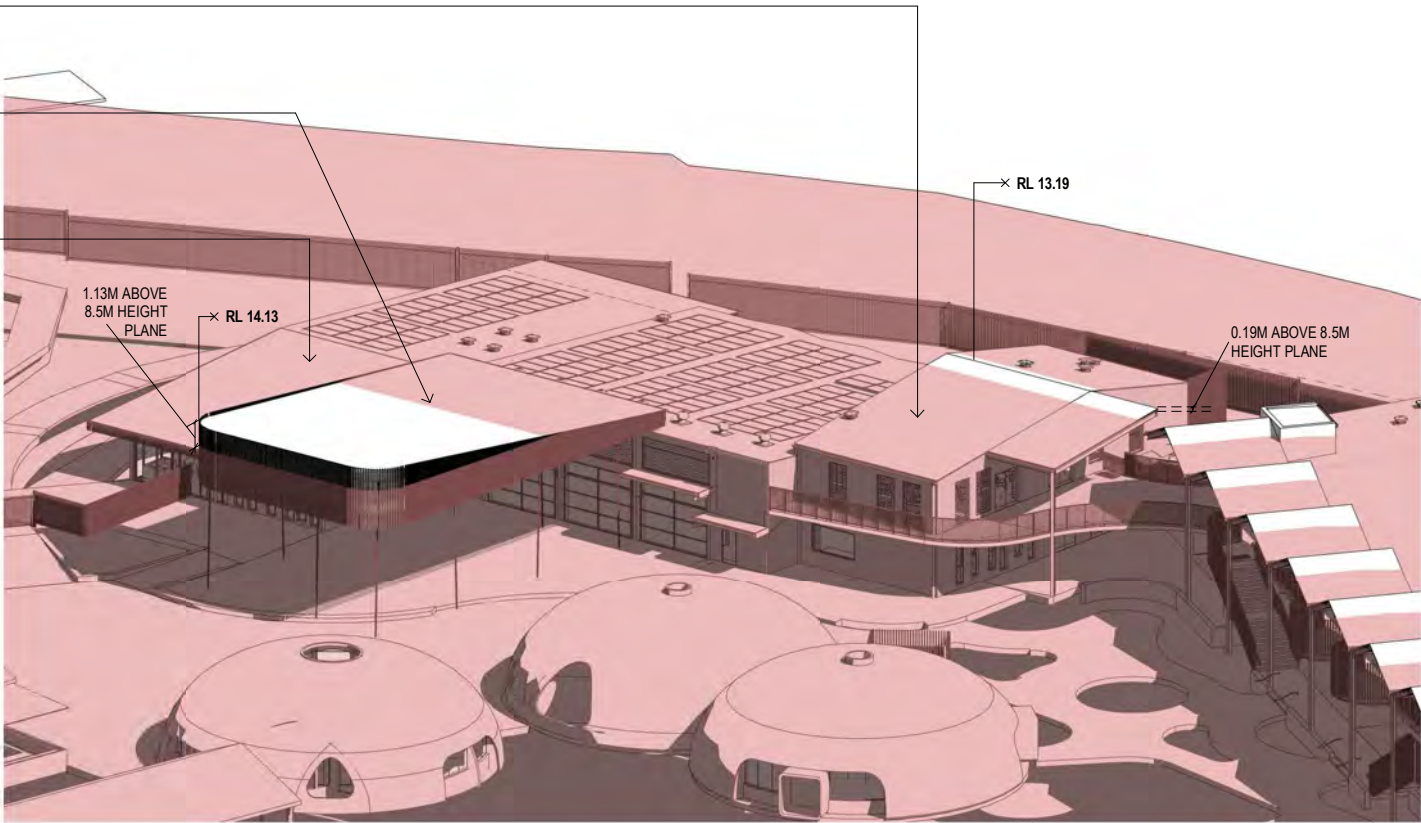


1 NNPS_3D AXO - HEIGHT PLANE - NEW ADMIN & HALL - SOUTH EAST VIEW - DA

NEW 2-STOREY
STAFF HUB

NEW COVERED OUTDOOR
LEARNING AREA (COLA)

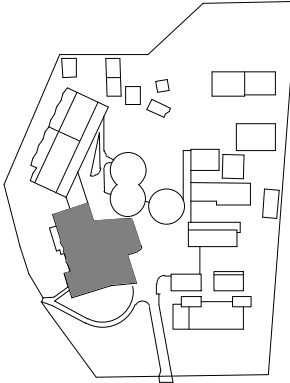
NEW 1 STOREY
ADMINISTRATION &
HALL HUB



2 NNPS_3D AXO - HEIGHT PLANE - NEW ADMIN & HALL - NORTH EAST VIEW - DA

LEGEND

8.5M 3D HEIGHT PLANE



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NARRABEEN EDUCATION PRECINCT
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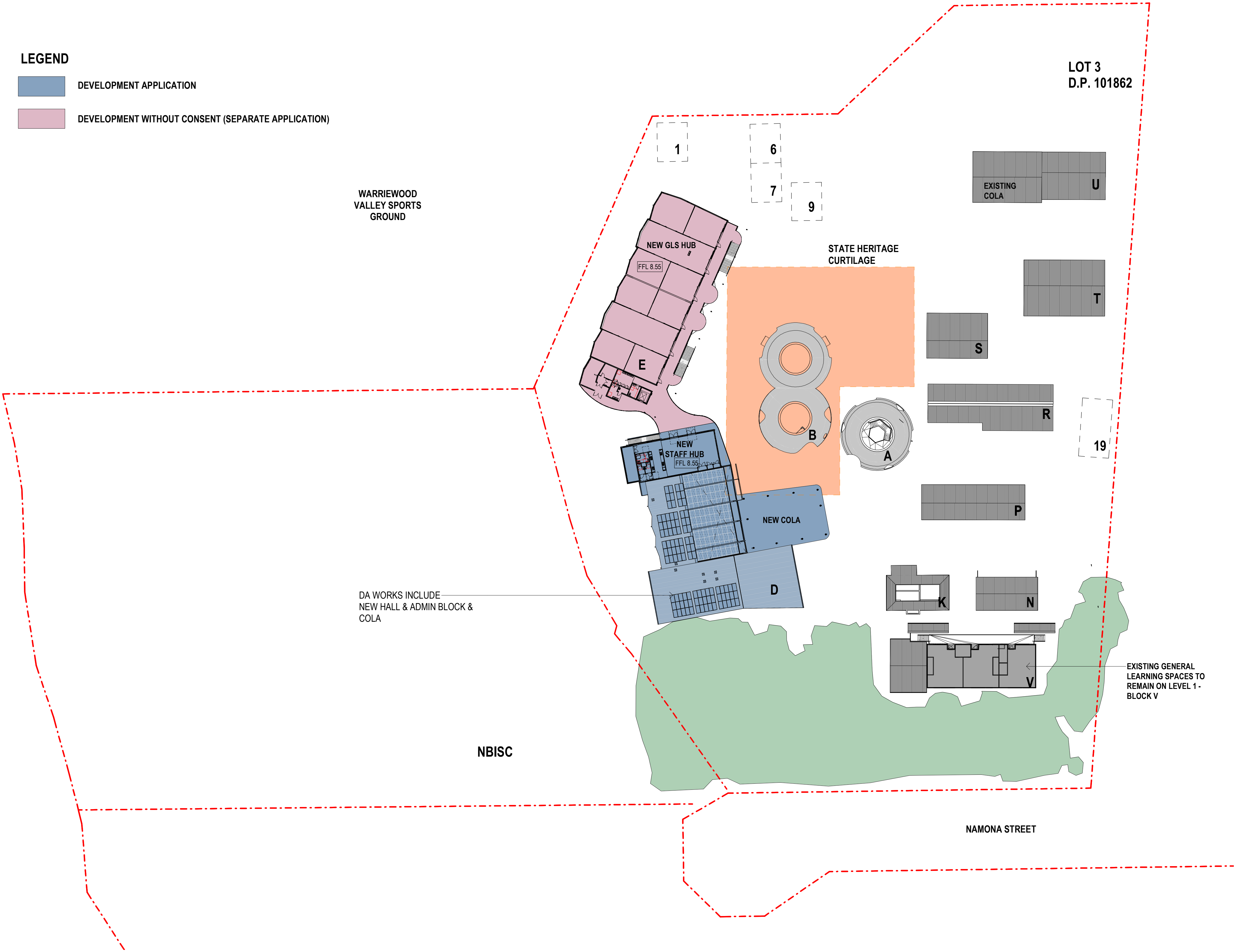
DETAILS
DRAWN
CHECKED
APPROVED
JO
RF
Approver
SCALE
1:200 @ A1

TITLE
**3D SITE TOPOGRAPHY HEIGHT PLANE -
NEW ADMIN & HALL**

DRAWING NUMBER
DA-P-0303
REVISION
A

LEGEND

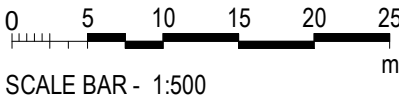
- DEVELOPMENT APPLICATION
- DEVELOPMENT WITHOUT CONSENT (SEPARATE APPLICATION)



1 NNPS - NEW SITE PLAN - LEVEL 01 - DA

LEGEND

- DEMOUNTABLES
- EXISTING PERMANENT BUILDING / STRUCTURE
- COASTAL WETLANDS/ BIODIVERSITY ZONE
- PROJECT SITE EXTENTS
- STATE HERITAGE CURTILAGE
- MAIN ENTRY
- SECONDARY ENTRY



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PROJECT

NARRABEEN EDUCATION PRECINCT

NAMONA ST, NORTH NARRABEEN NSW 2101

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TITLE

NEW SITE PLAN - SCHOOL - LEVEL 01

DRAWING NUMBER

DA-P-0522

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LEGEND

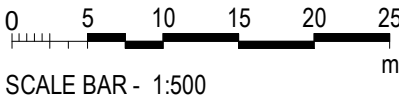
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1 NNPS - ROOF - DA

LEGEND

- DEMOUNTABLES
- EXISTING PERMANENT BUILDING / STRUCTURE
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- PROJECT SITE EXTENTS
- STATE HERITAGE CURTILAGE
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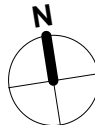
 **Education**

PROJECT

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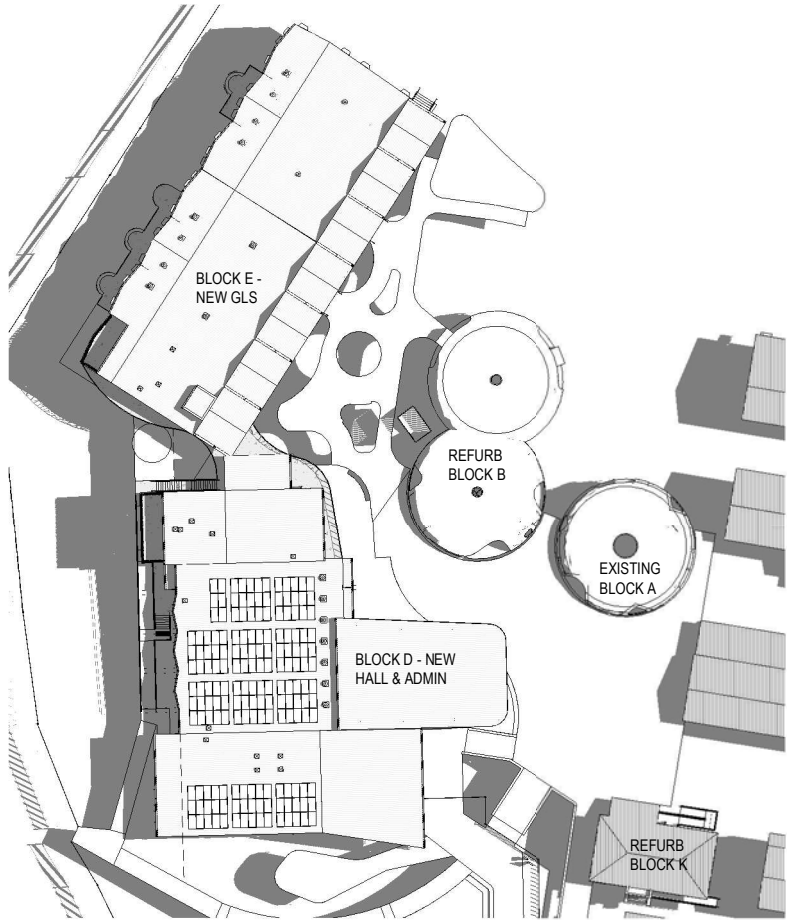
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APPROVED	Approver		

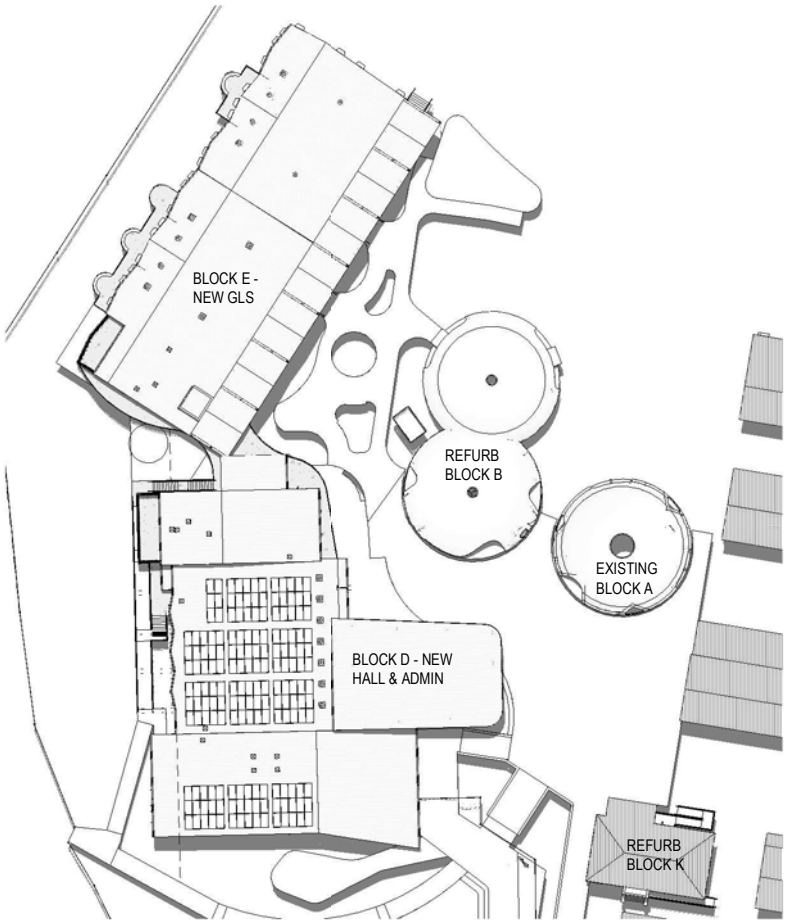
TITLE

NEW SITE PLAN - SCHOOL - ROOF

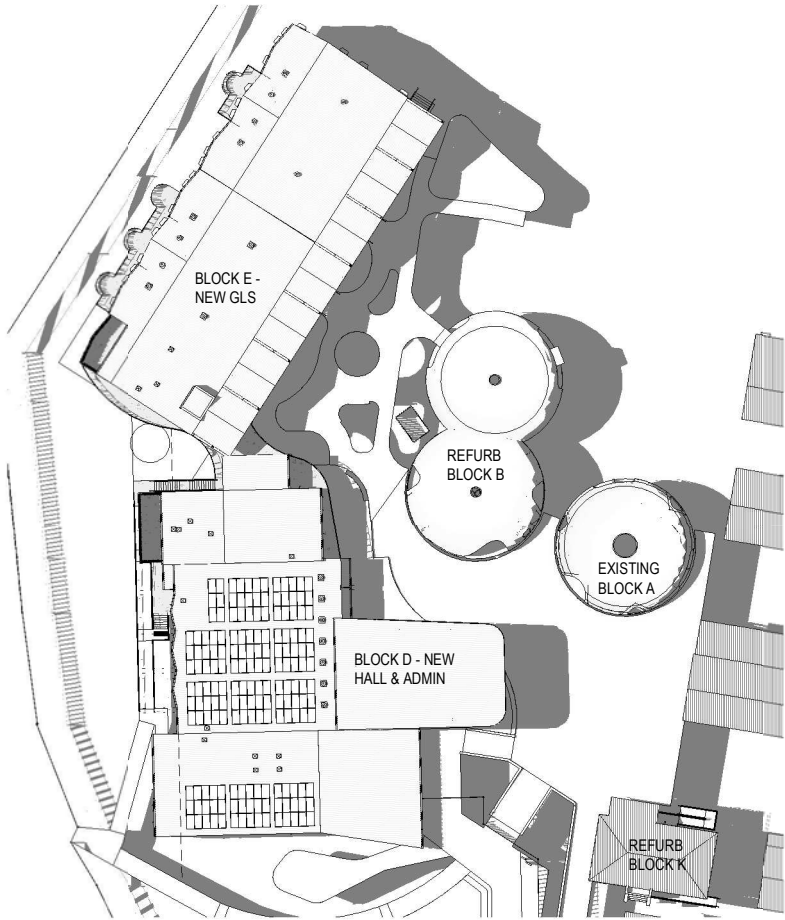
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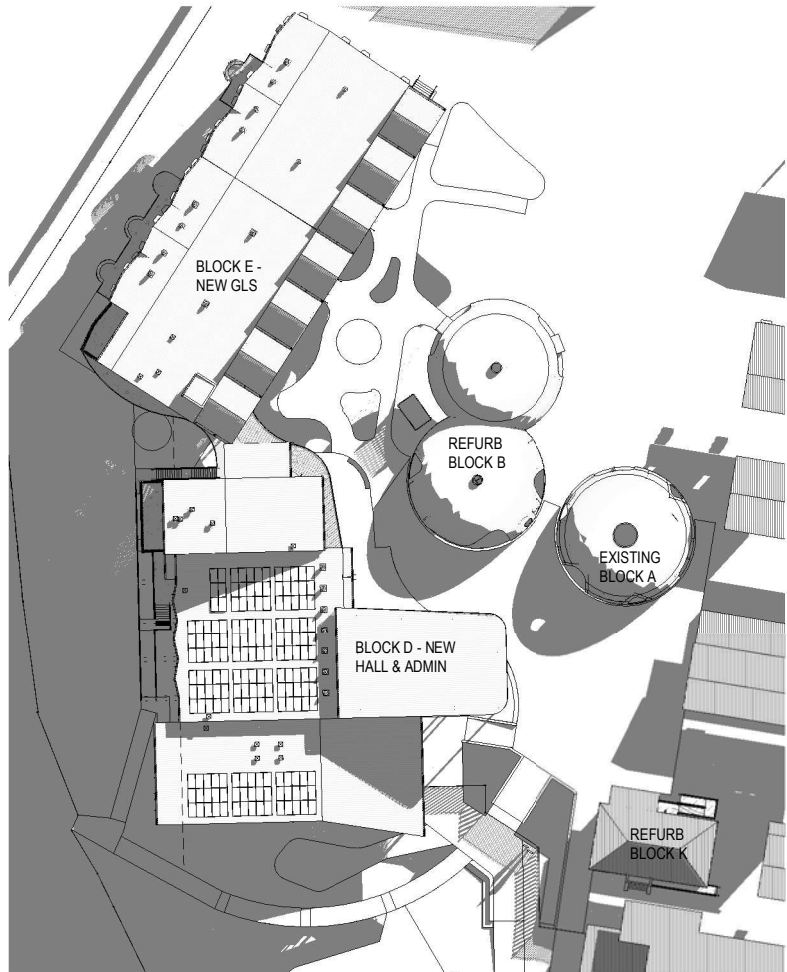
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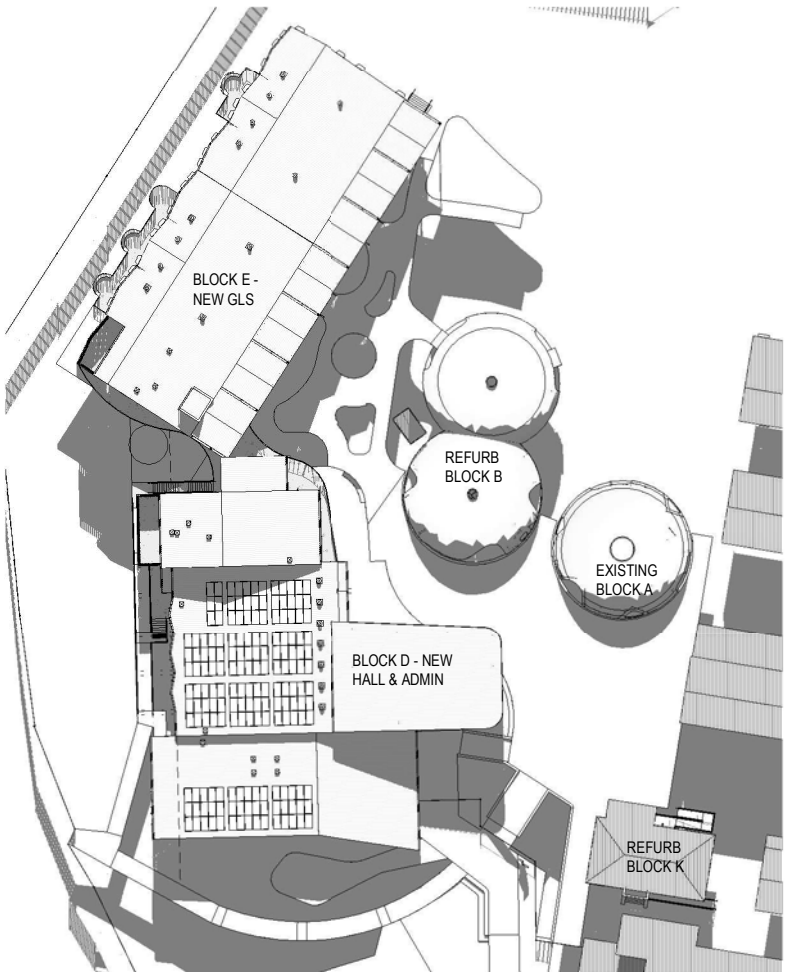
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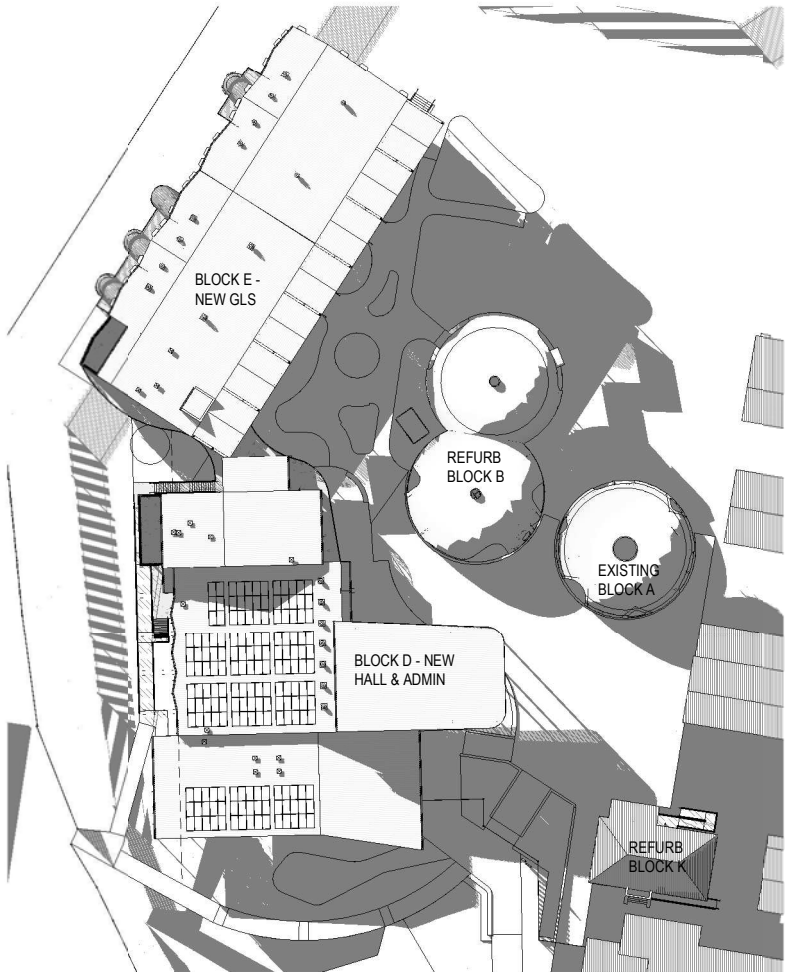
3 NNPS - SHADOW DIAGRAM 03 (3PM SUMMER) - DA



4 NNPS - SHADOW DIAGRAM 04 (9AM WINTER) - DA



5 NNPS - SHADOW DIAGRAM 05 (12PM WINTER) - DA



6 NNPS - SHADOW DIAGRAM 06 (3PM WINTER) - DA

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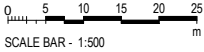
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DETAILS
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TITLE
SHADOW DIAGRAMS

DRAWING NUMBER
DA-P-0600
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DETAILS
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CHECKED RF
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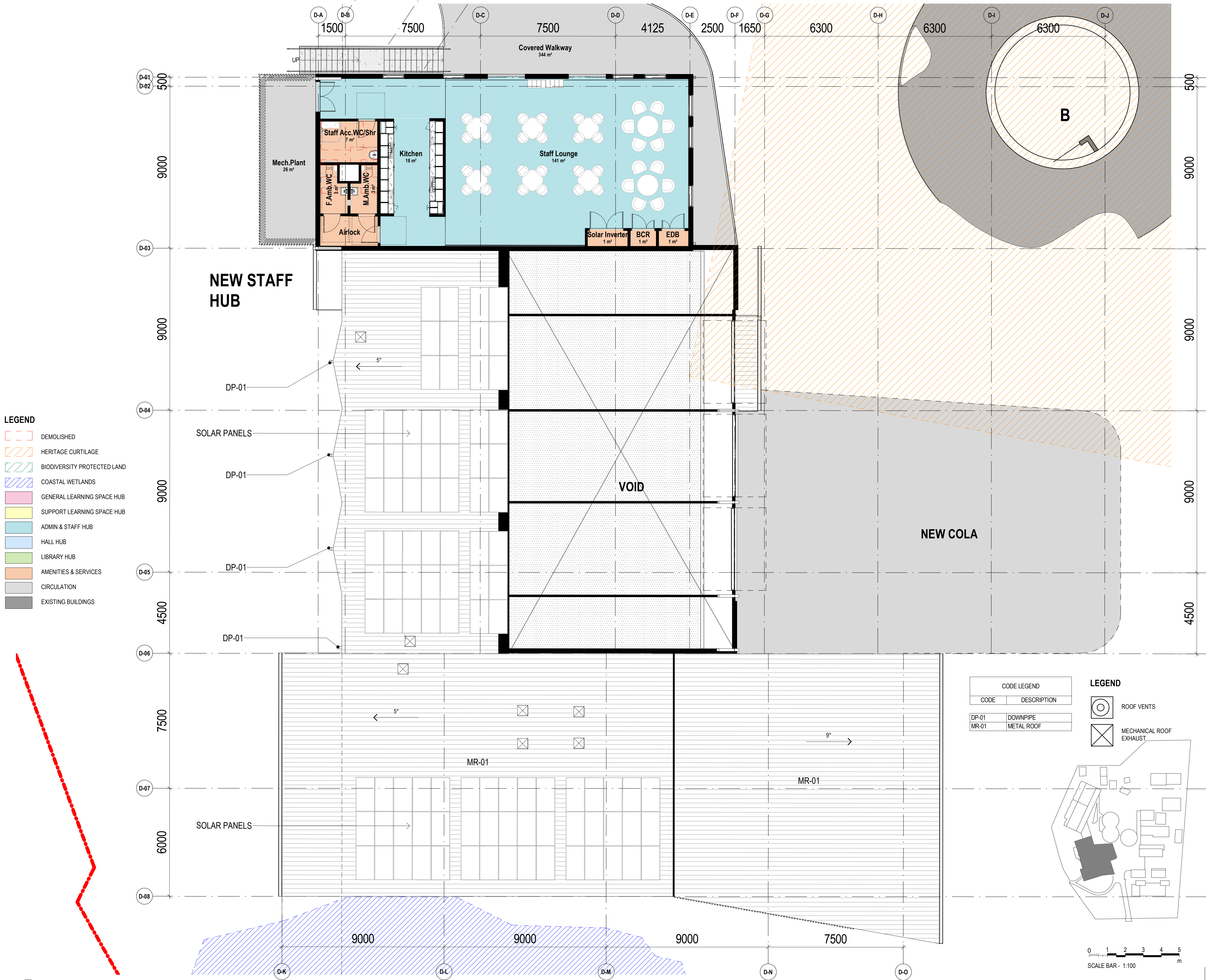
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TITLE
NEW HALL & ADMIN - GROUND FLOOR

DRAWING NUMBER
DA-P-1040

REVISION
A

- LEGEND
- DEMOLISHED
 - HERITAGE CURTLAGE
 - BIODIVERSITY PROTECTED LAND
 - COASTAL WETLANDS
 - GENERAL LEARNING SPACE HUB
 - SUPPORT LEARNING SPACE HUB
 - ADMIN & STAFF HUB
 - HALL HUB
 - LIBRARY HUB
 - AMENITIES & SERVICES
 - CIRCULATION
 - EXISTING BUILDINGS



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PROJECT

NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

DETAILS

DRAWN	JO	SCALE
CHECKED	RF	As indicated @ A1
APPROVED	Approver	

TITLE

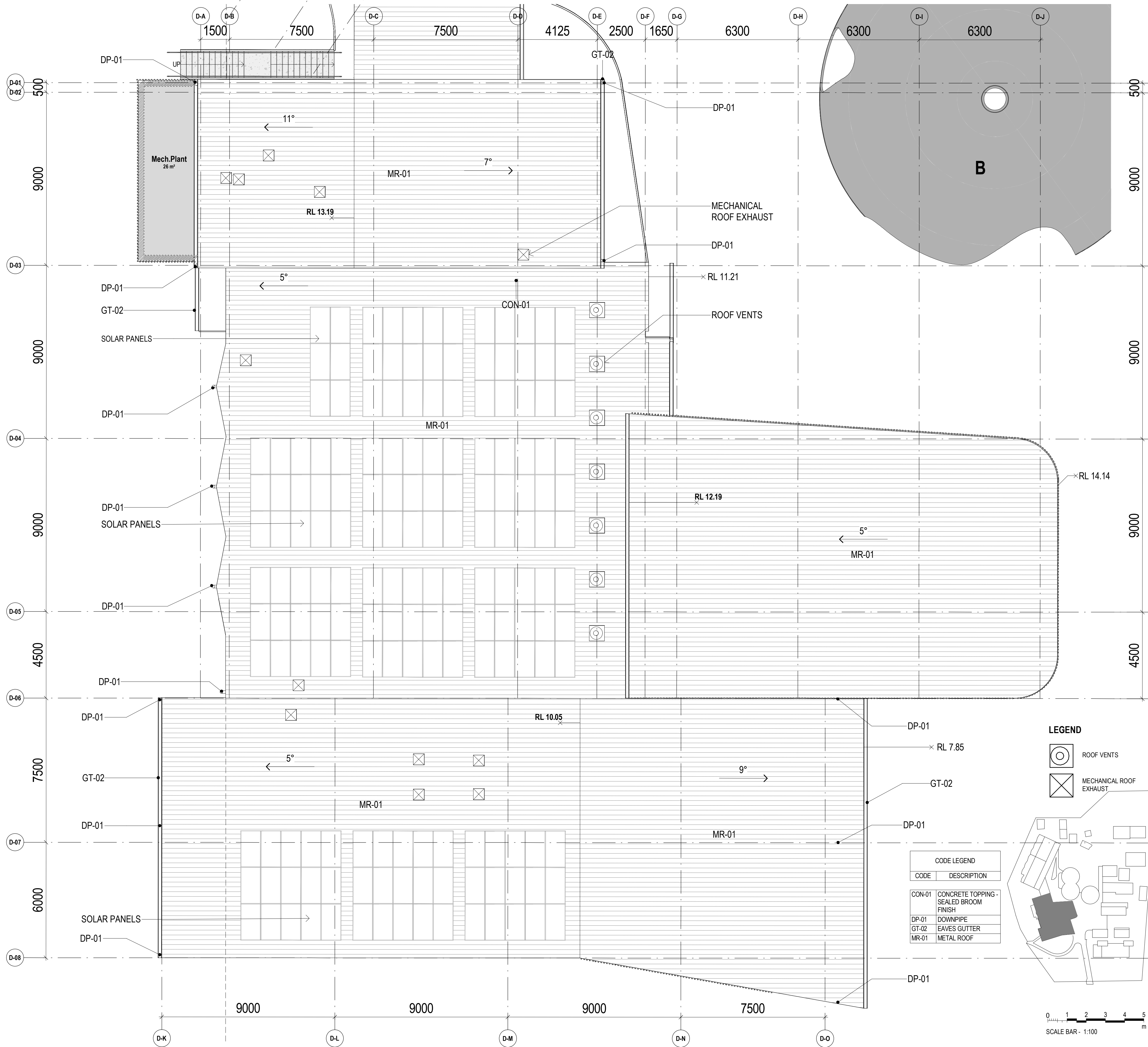
NEW HALL & ADMIN - LEVEL 1

DRAWING NUMBER

DA-P-1041

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PROJECT

NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

DETAILS

DRAWN	JO	SCALE	
CHECKED	CM	As indicated @ A1	
APPROVED	Approver		

TITLE

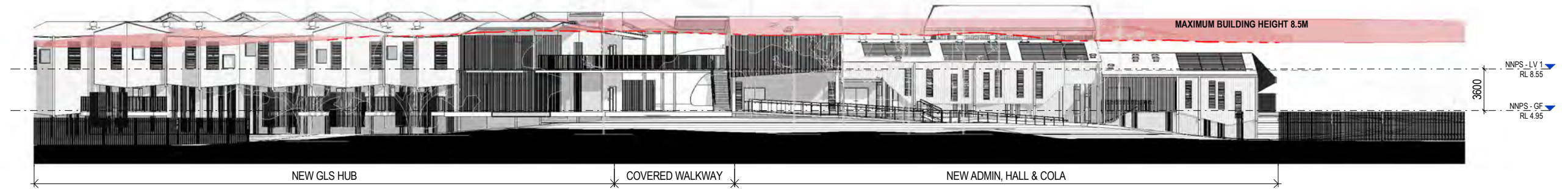
NEW HALL & ADMIN - ROOF PLAN

DRAWING NUMBER

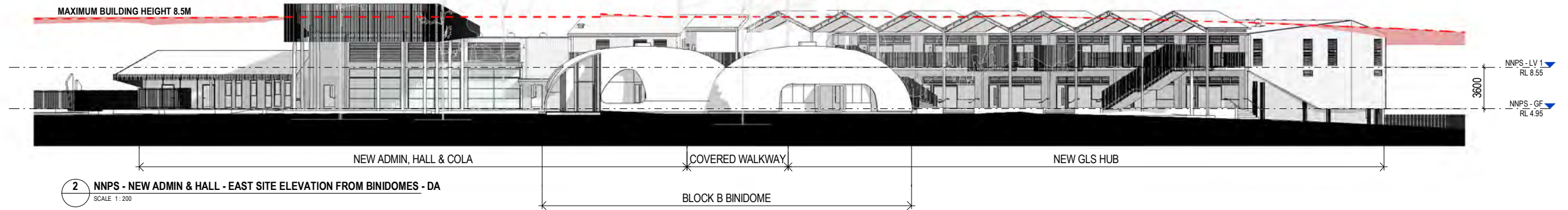
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REVISION

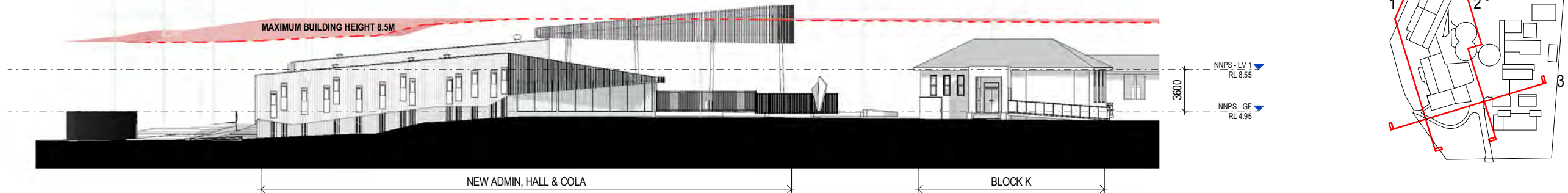
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1 NNPS - WEST SITE ELEVATION - FROM BOUNDARY - DA
SCALE 1: 200



2 NNPS - NEW ADMIN & HALL - EAST SITE ELEVATION FROM BINIDOMES - DA
SCALE 1: 200



3 NNPS - NEW ADMIN & HALL - SOUTH SITE ELEVATION - DA
SCALE 1: 200

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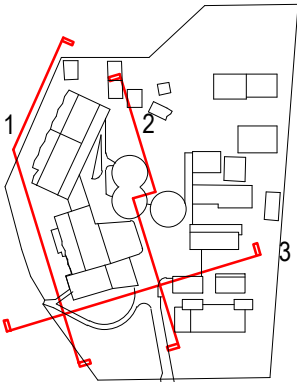


PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

DETAILS
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CHECKED RF
APPROVED Approver
SCALE
1: 200 @ A1

TITLE
NEW ADMIN & HALL - SITE ELEVATIONS

DRAWING NUMBER
DA-P-3001
REVISION
A

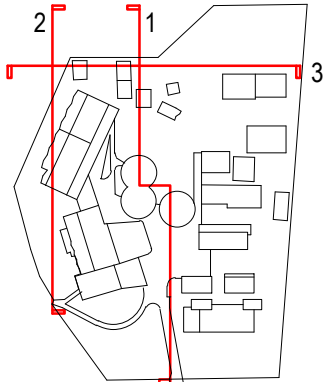
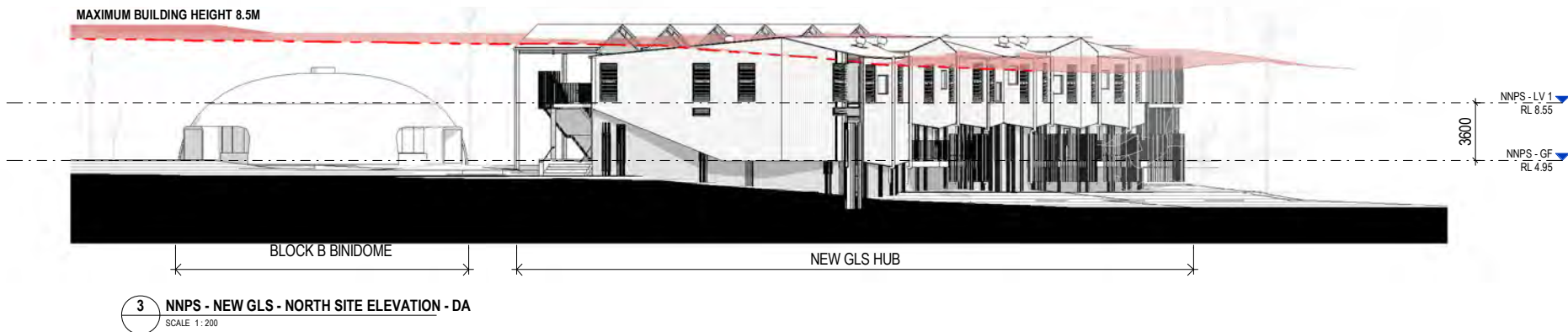
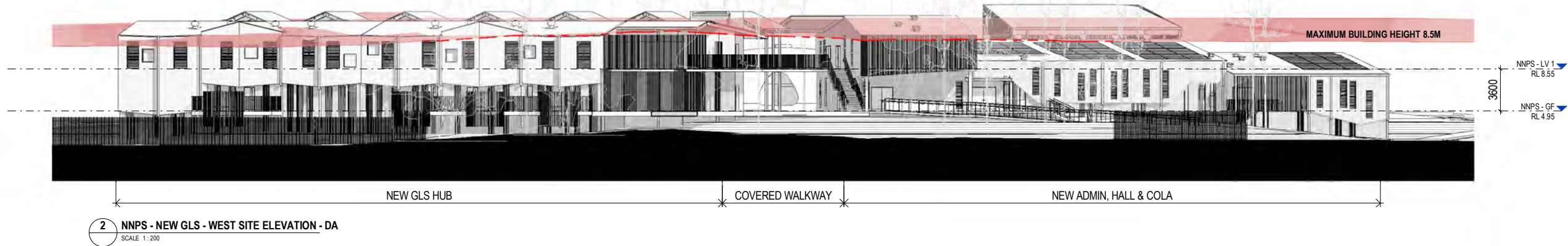
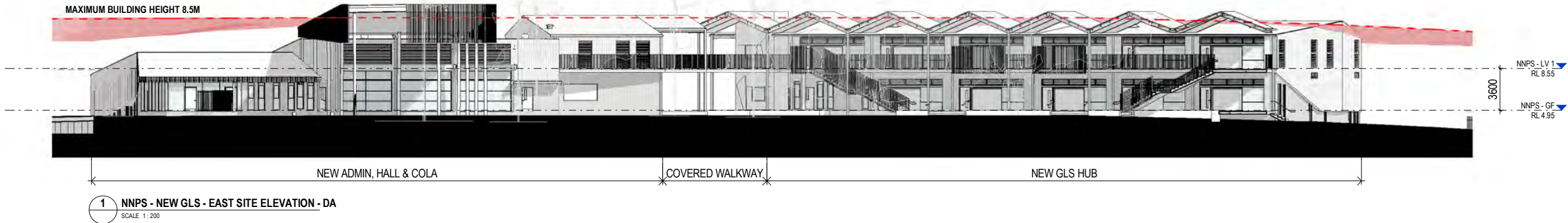


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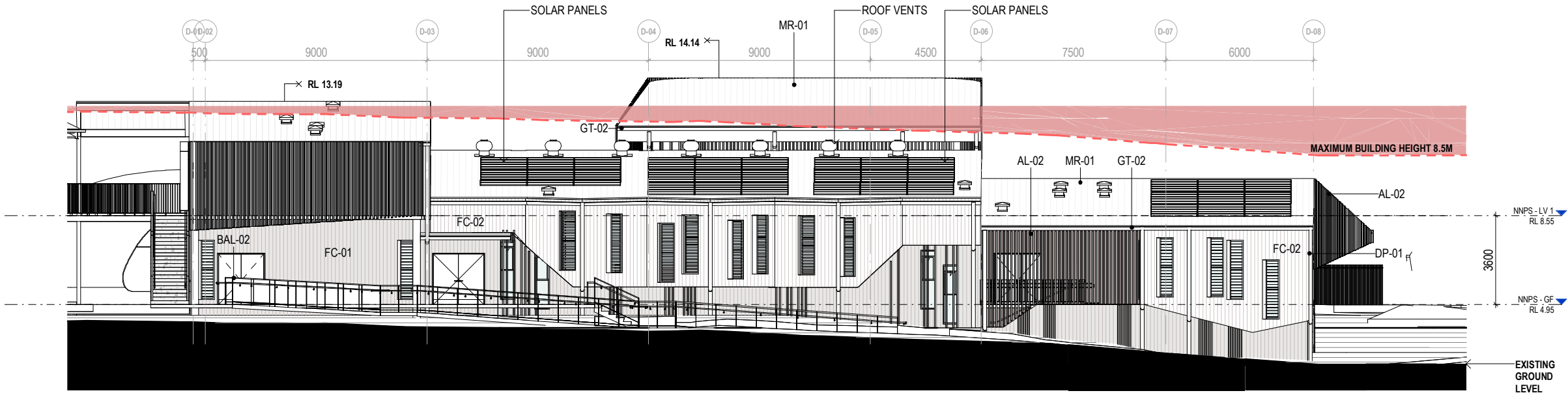
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NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101

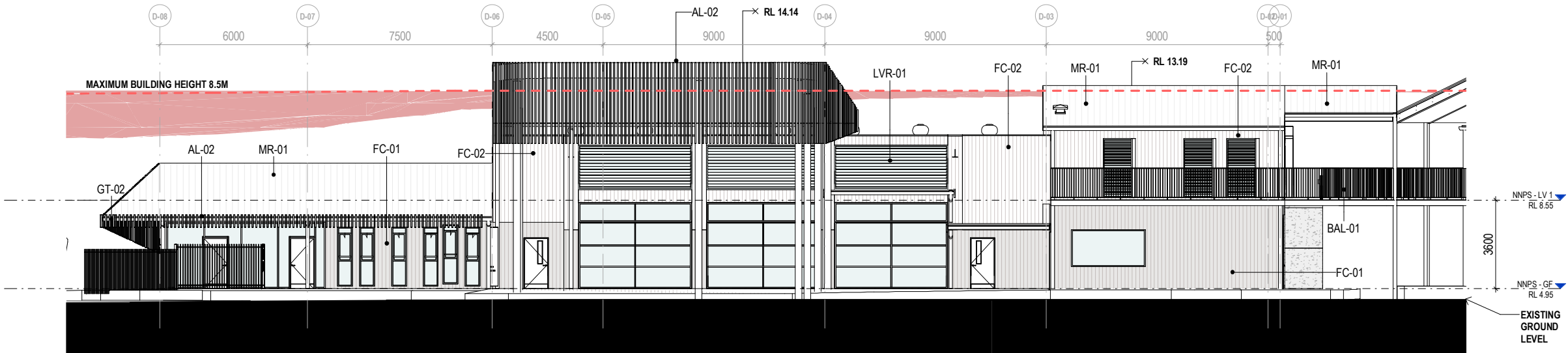
DETAILS
DRAWN
CHECKED
APPROVED
JO
RF
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SCALE
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TITLE
NEW GLS HUB - SITE ELEVATIONS

DRAWING NUMBER
DA-P-3002
REVISION
A

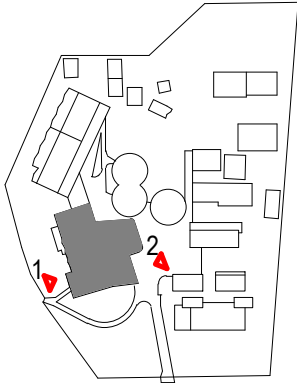


1 NNPS - NEW ADMIN & HALL - WEST ELEVATION - DA
SCALE 1:100



2 NNPS - NEW ADMIN & HALL - EAST ELEVATION - DA
SCALE 1:100

CODE LEGEND	
CODE	DESCRIPTION
AL-02	ALUMINIUM VERTICAL BATTENS
BAL-01	BALUSTRADE - GALVANISED FINISH
BAL-02	BALUSTRADE W/ KICKRAIL - GALVANISED FINISH
DP-01	DOWNPIPE
FC-01	CFC CLADDING
FC-02	CFC CLADDING
GT-02	EAVES GUTTER
LVR-01	GLAZING LOUVRES
MR-01	METAL ROOF



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SCALE BAR - 1:100
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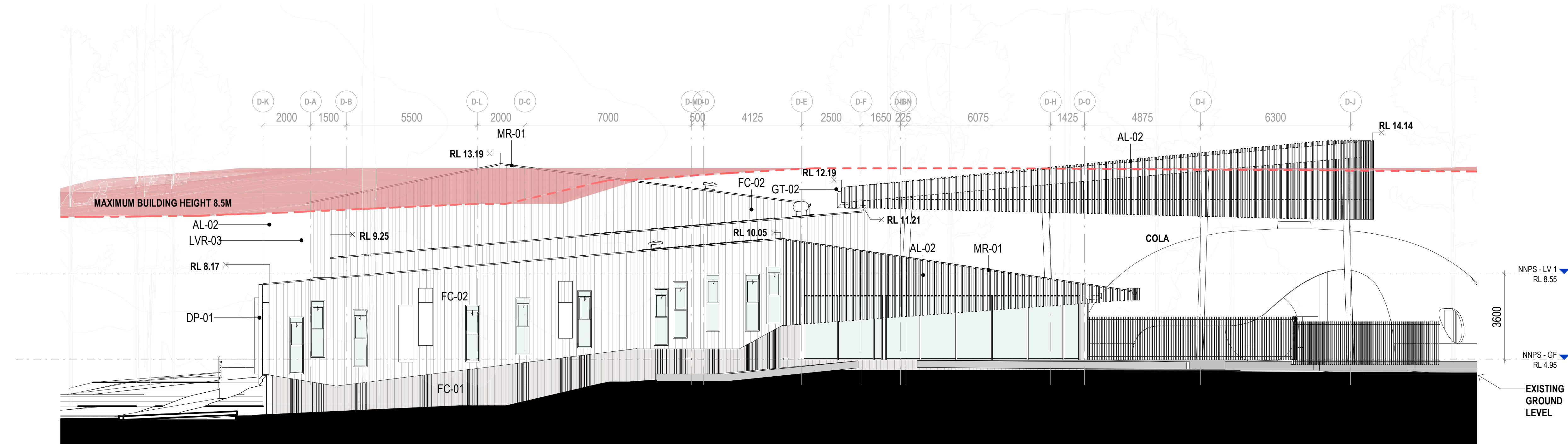
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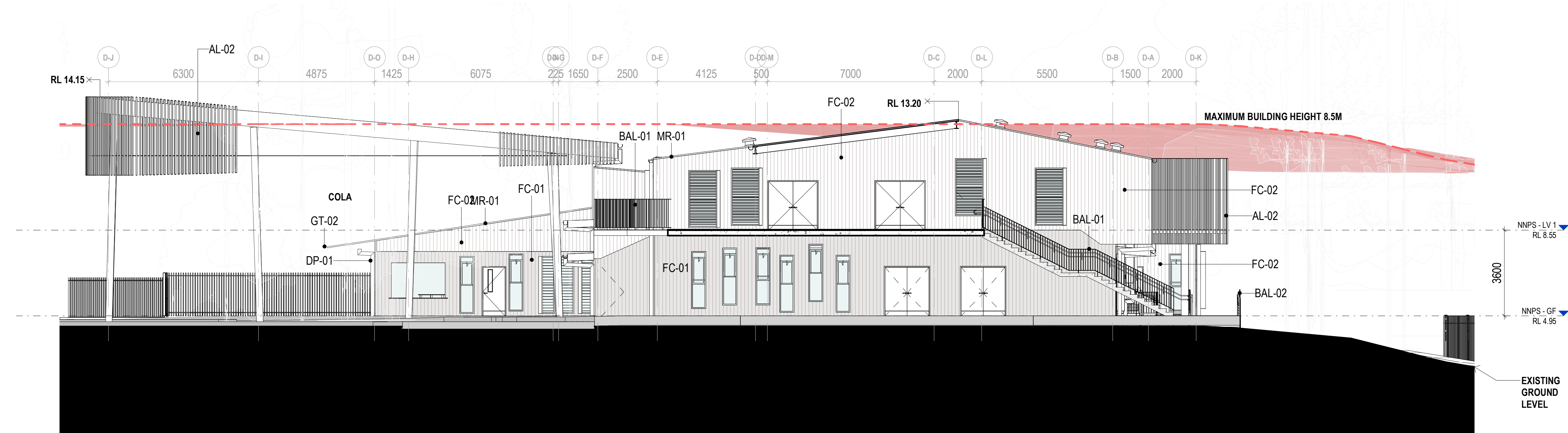
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SCALE
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TITLE
NEW ADMIN & HALL - GA ELEVATIONS

DRAWING NUMBER
DA-P-3040
REVISION
A

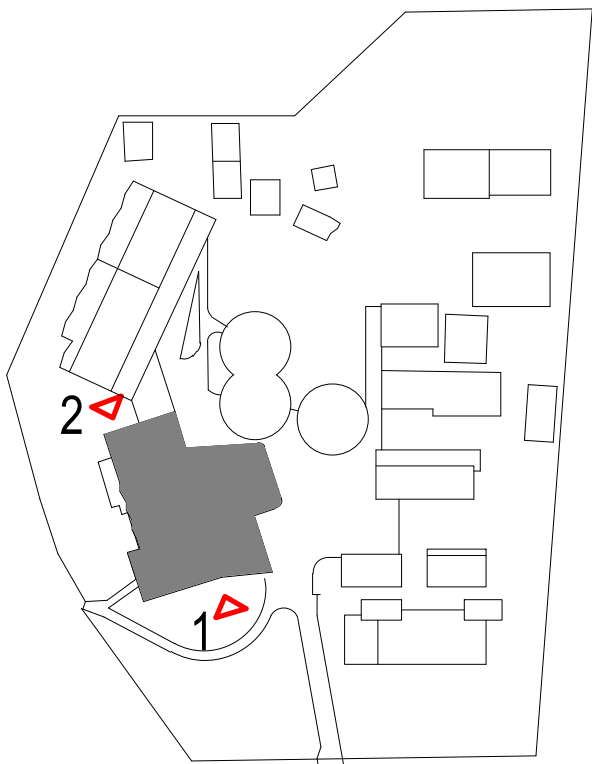


1 NNPS - NEW ADMIN & HALL - SOUTH ELEVATION - DA
SCALE 1:100



2 NNPS - NEW ADMIN & HALL - NORTH ELEVATION - DA
SCALE 1:100

CODE LEGEND	
CODE	DESCRIPTION
AL-02	ALUMINIUM VERTICAL BATTENS
BAL-01	BALUSTRADE - GALVANISED FINISH
BAL-02	BALUSTRADE W/ KICKRAIL - GALVANISED FINISH
DP-01	DOWNSPIPE
FC-01	CFC CLADDING
FC-02	CFC CLADDING
GT-02	EAVES GUTTER
LVR-03	FIXED METAL LOUVRES - ACOUSTIC
MR-01	METAL ROOF



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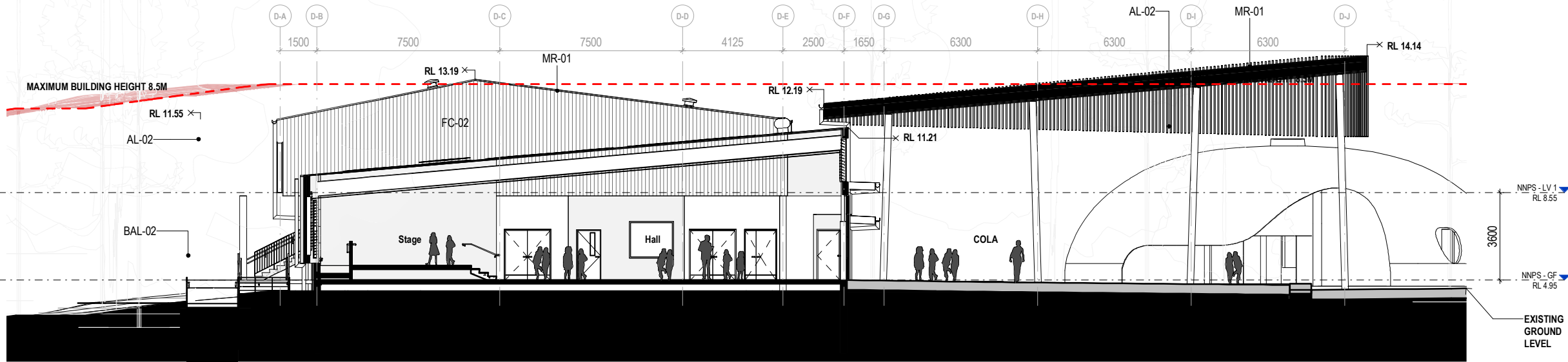
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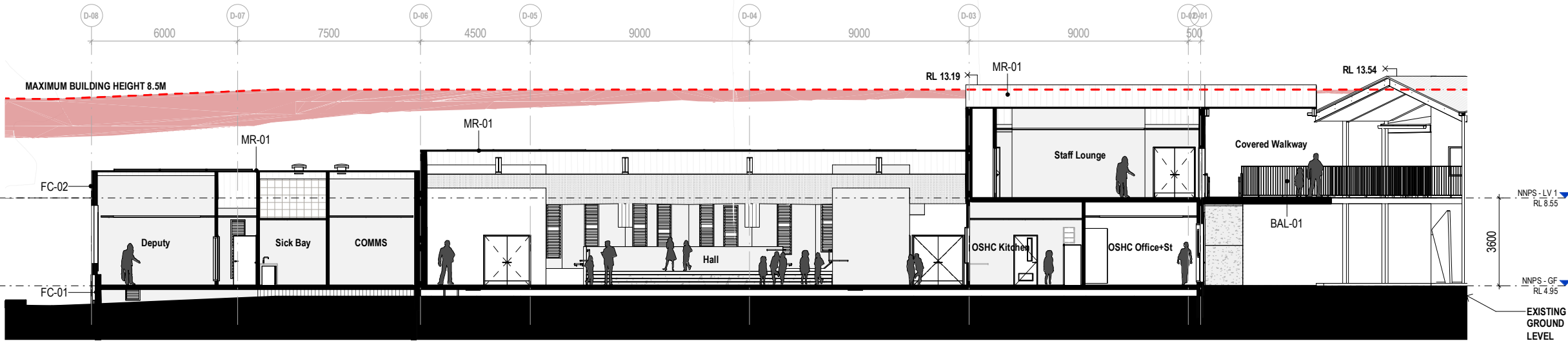
DETAILS
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SCALE
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TITLE
NEW HALL & ADMIN - GA ELEVATIONS

DRAWING NUMBER
DA-P-3041
REVISION
B

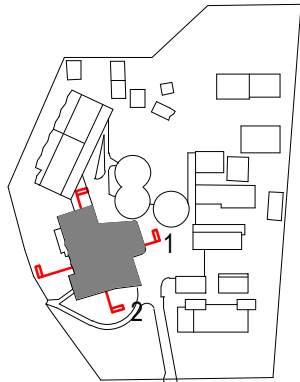


1 NEW HALL & ADMIN - BUILDING SECTION - E/W - DA
SCALE 1:100



2 NEW HALL & ADMIN - BUILDING SECTION - N/S - DA
SCALE 1:100

CODE LEGEND	
CODE	DESCRIPTION
AL-02	ALUMINIUM VERTICAL BATTENS
BAL-01	BALUSTRADE - GALVANISED FINISH
BAL-02	BALUSTRADE W/ KICKRAIL - GALVANISED FINISH
FC-01	CFC CLADDING
FC-02	CFC CLADDING
MR-01	METAL ROOF



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NAMONA ST, NORTH NARRABEEN NSW 2101

DETAILS
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APPROVED
Author
Checker
Approver
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TITLE
NEW HALL & ADMIN - GA SECTIONS

DRAWING NUMBER
DA-P-3042
REVISION
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Annex B Site and Design Plans for NSHS



NARRABEEN SPORTS HIGH SCHOOL

10 NAMONA STREET, NORTH NARRABEEN NSW 2101
DA SET

NARRABEEN SPORTS HIGH SCHOOL - DA				
Sheet Number	Sheet Name	Current Revision	Current Revision Date	Current Revision Description
0000 - GENERAL & SITE INFORMATION				
AR-H-0100	COVER SHEET, LOCATION PLAN & DRAWING LIST - DA	A	15/09/2022	ISSUE FOR DA
AR-H-0200	SITE ANALYSIS	A	15/09/2022	ISSUE FOR DA
AR-H-0302	NSHS GYMNASIUM AXONOMETRIC VIEW	A	15/09/2022	ISSUE FOR DA
AR-H-0303	NSHS PROPOSED EXTENSION PERSPECTIVE VIEWS	A	15/09/2022	ISSUE FOR DA
AR-H-0350	SHADOW DIAGRAMS	A	15/09/2022	ISSUE FOR DA
AR-H-0351	SHADOW DIAGRAMS	A	15/09/2022	ISSUE FOR DA
AR-H-0352	SHADOW DIAGRAMS	A	15/09/2022	ISSUE FOR DA
AR-H-0510	EXISTING SITE PLAN	A	15/09/2022	ISSUE FOR DA
AR-H-0512	DEMOLITION SITE PLAN - GROUND FLOOR	A	15/09/2022	ISSUE FOR DA
AR-H-0513	DEMOLITION SITE PLAN - LEVEL 1	A	15/09/2022	ISSUE FOR DA
AR-H-0521	PROPOSED SITE PLAN - GROUND FLOOR	A	15/09/2022	ISSUE FOR DA
AR-H-0522	PROPOSED SITE PLAN-LEVEL 1 PLAN	A	15/09/2022	ISSUE FOR DA
AR-H-0523	PROPOSED SITE PLAN ROOF PLAN	A	15/09/2022	ISSUE FOR DA
0500 - EXISTING AND DEMOLITION PLANS				
AR-H-0533	EXISTING PLAN- BLOCK A SOUTH GROUND FLOOR	A	15/09/2022	ISSUE FOR DA
AR-H-0534	EXISTING PLAN- BLOCK A SOUTH LEVEL 1	A	15/09/2022	ISSUE FOR DA
AR-H-0535	EXISTING PLAN - BLOCK A SOUTH ROOF PLAN	A	15/09/2022	ISSUE FOR DA
AR-H-0553	DEMOLITION PLAN - GROUND FLOOR, BLOCK A SOUTH	A	15/09/2022	ISSUE FOR DA
AR-H-0554	DEMOLITION SITE PLAN, BLOCK A SOUTH, LEVEL 1	A	15/09/2022	ISSUE FOR DA
AR-H-0555	DEMOLITION PLAN, BLOCK A SOUTH, ROOF PLAN	A	15/09/2022	ISSUE FOR DA
1000 - GA PLANS				
AR-H-1010	PROPOSED PLAN - BLOCK A SOUTH, GROUND FLOOR	A	15/09/2022	ISSUE FOR DA
AR-H-1011	PROPOSED PLAN - BLOCK A SOUTH, LEVEL 1	A	15/09/2022	ISSUE FOR DA
AR-H-1012	PROPOSED PLAN - BLOCK A SOUTH, ROOF PLAN	A	15/09/2022	ISSUE FOR DA
AR-H-1013	PROPOSED PLAN - BLOCK A LIFT	A	15/09/2022	ISSUE FOR DA
3000 - ELEVATIONS & SECTIONS				
AR-H-3005	EXISTING ELEVATION - BLOCK A3	A	15/09/2022	ISSUE FOR DA
AR-H-3006	EXISTING ELEVATION - BLOCK A3	A	15/09/2022	ISSUE FOR DA
AR-H-3007	DEMOLITION ELEVATION - BLOCK A3	A	15/09/2022	ISSUE FOR DA
AR-H-3008	DEMOLITION ELEVATION - BLOCK A3	A	15/09/2022	ISSUE FOR DA
AR-H-3010	PROPOSED ELEVATIONS- BLOCK A- SOUTH AND EAST	A	15/09/2022	ISSUE FOR DA
AR-H-3011	PROPOSED ELEVATIONS- BLOCK A- EAST, NORTH AND WEST	A	15/09/2022	ISSUE FOR DA
AR-H-3012	PROPOSED ELEVATIONS- BLOCK A, GYM, NORTH ELEVATION	A	15/09/2022	ISSUE FOR DA
AR-H-3041	SECTIONS- BLOCK A	A	15/09/2022	ISSUE FOR DA
AR-H-3042	SECTIONS- BLOCK A	A	15/09/2022	ISSUE FOR DA

0000 - GENERAL & SITE INFORMATION

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

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No	DATE	REVISIONS	BY
1	26/05/2022	SCHEMATIC DESIGN - DRAFT	JO
2	08/06/2022	PRE-DA - DRAFT	JO
3	29/06/2022	FOR INFORMATION	
4	07/07/2022	FOR INFORMATION	
5	12/07/2022	FOR INFORMATION	RF
6	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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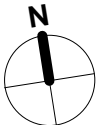
PROJECT

NARRABEEN EDUCATION PRECINCT

NAMONA ST, NORTH NARRABEEN NSW 2101

NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	@ A1

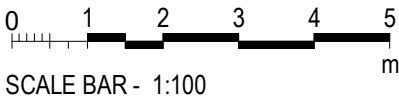


TITLE

COVER SHEET, LOCATION PLAN & DRAWING LIST - DA

DRAWING NUMBER	REVISION
AR-H-0100	A

SOURCE: NEARMAP



ARCHITECTURE:		
0000	GENERAL & SITE INFORMATION	
1000	GENERAL ARRANGEMENT PLANS	
2000	GA RCPS	
3000	GA SECTIONS & ELEVATIONS	
4000	REFERENCE PLANS	
5000	STRUCTURAL SET-OUT	
6000	VERTICAL CIRCULATION	
7000	INTERIOR DESIGN DETAILS	
8000	EXTERIOR & FACADE DETAILS	
9000	DRAWN SCHEDULES	
9000	SCHEDULES & SPECIFICATIONS	

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No	DATE	REVISIONS	BY
1	07/07/2022	FOR INFORMATION	
2	12/07/2022	FOR INFORMATION	RF
3	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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 **Education**

PROJECT

NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

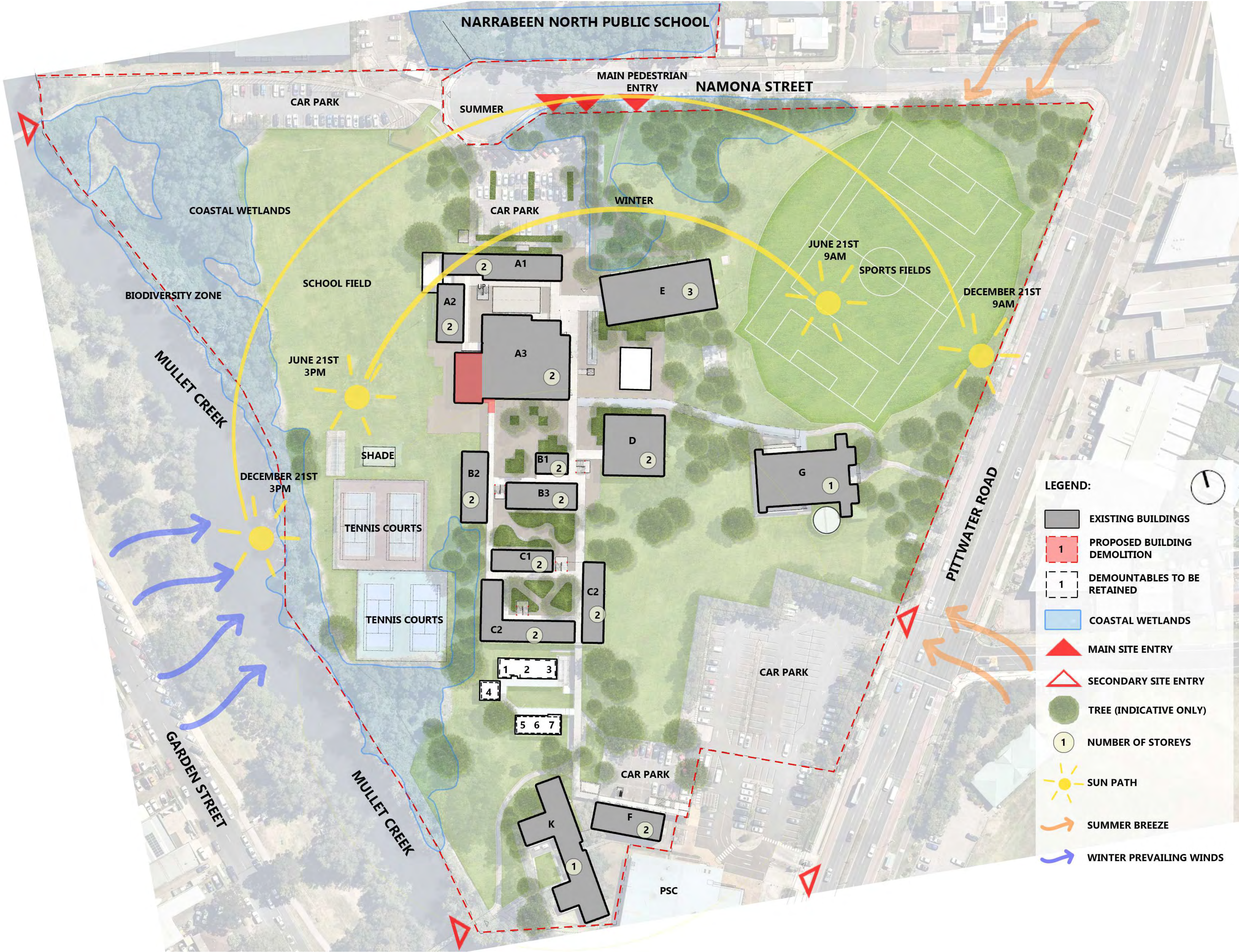
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CHECKED	RF	
APPROVED	CM	1:1000 @ A1

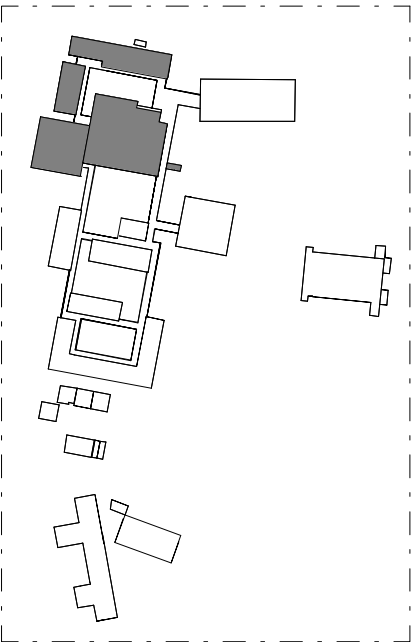
TITLE

SITE ANALYSIS

DRAWING NUMBER	REVISION
AR-H-0200	A



SITE ANALYSIS - NARRABEEN SPORTS HIGHSCHOOL



KEYPLAN

0000 - GENERAL & SITE INFORMATION

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

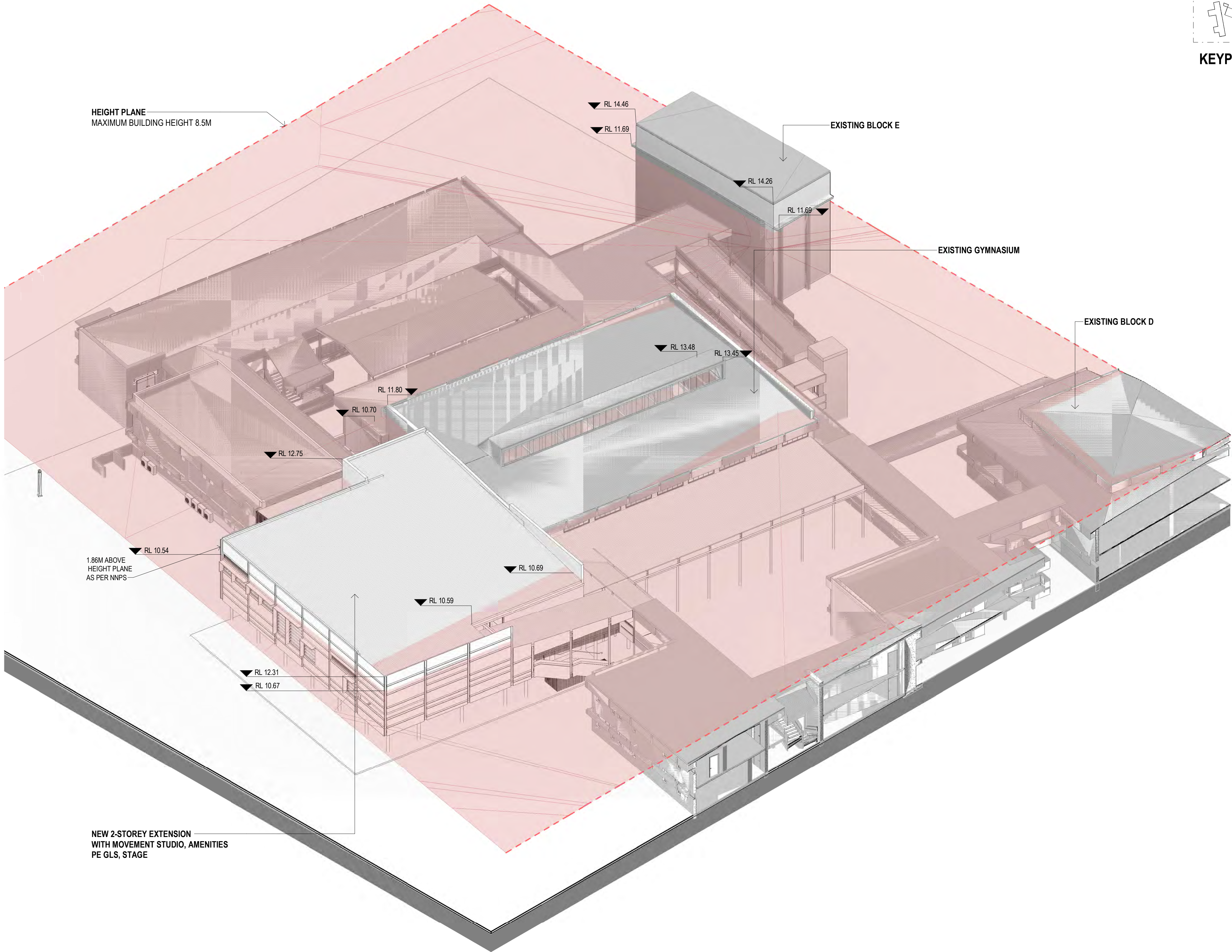
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1	02/08/2022	FOR CONSULTANT	RF
2	03/08/2022	FOR INFORMATION	RF
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NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	Author	SCALE
CHECKED	Checker	
APPROVED	Approver	N/A @ A1

TITLE

NSHS GYMNASIUM AXONOMETRIC VIEW

DRAWING NUMBER	REVISION
AR-H-0302	A



0000 - GENERAL & SITE INFORMATION

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
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Education

PROJECT

NARRABEEN EDUCATION PRECINCT

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NARRABEEN SPORTS HIGH SCHOOL

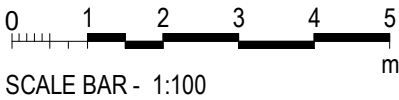
DETAILS		
DRAWN	Author	SCALE
CHECKED	Checker	
APPROVED	Approver	@ A1

TITLE

NSHS PROPOSED EXTENSION

PERSPECTIVE VIEWS

DRAWING NUMBER	REVISION
AR-H-0303	A



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ARCHITECTURE:		
0000	GENERAL & SITE INFORMATION	
1000	GENERAL ARRANGEMENT PLANS	
2000	GA RCPS	
3000	GA SECTIONS & ELEVATIONS	
4000	REFERENCE PLANS	
5000	STRUCTURAL SET-OUT	
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9000	DRAWN SCHEDULES	
9000	SCHEDULES & SPECIFICATIONS	

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1	29/06/2022	FOR INFORMATION	
2	07/07/2022	FOR INFORMATION	
3	12/07/2022	FOR INFORMATION	RF
4	02/08/2022	FOR CONSULTANT	RF
5	03/08/2022	FOR INFORMATION	RF
6	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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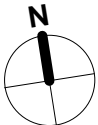
PROJECT

NARRABEEN EDUCATION PRECINCT

NAMONA ST, NORTH NARRABEEN NSW 2101

NARRABEEN SPORTS HIGH SCHOOL

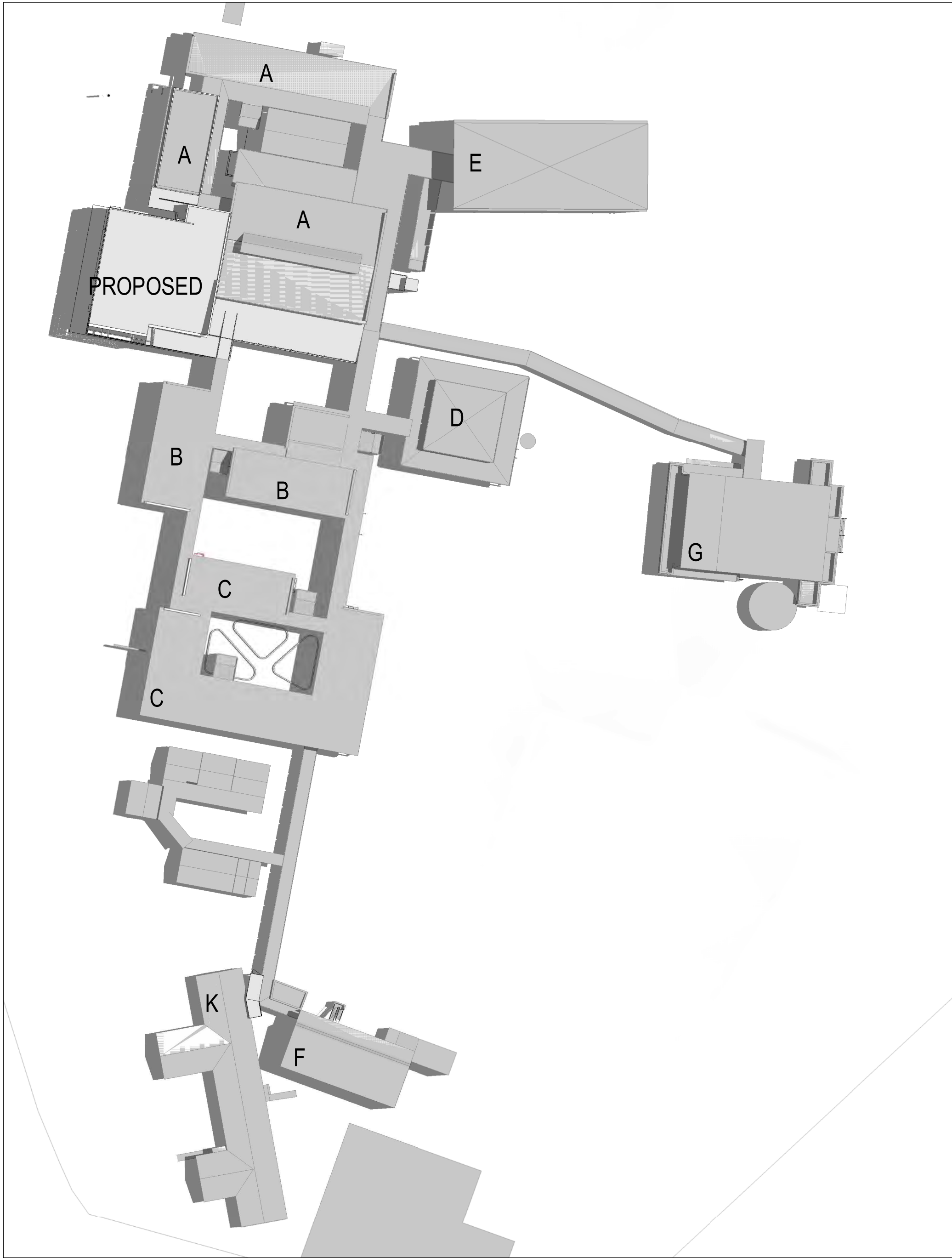
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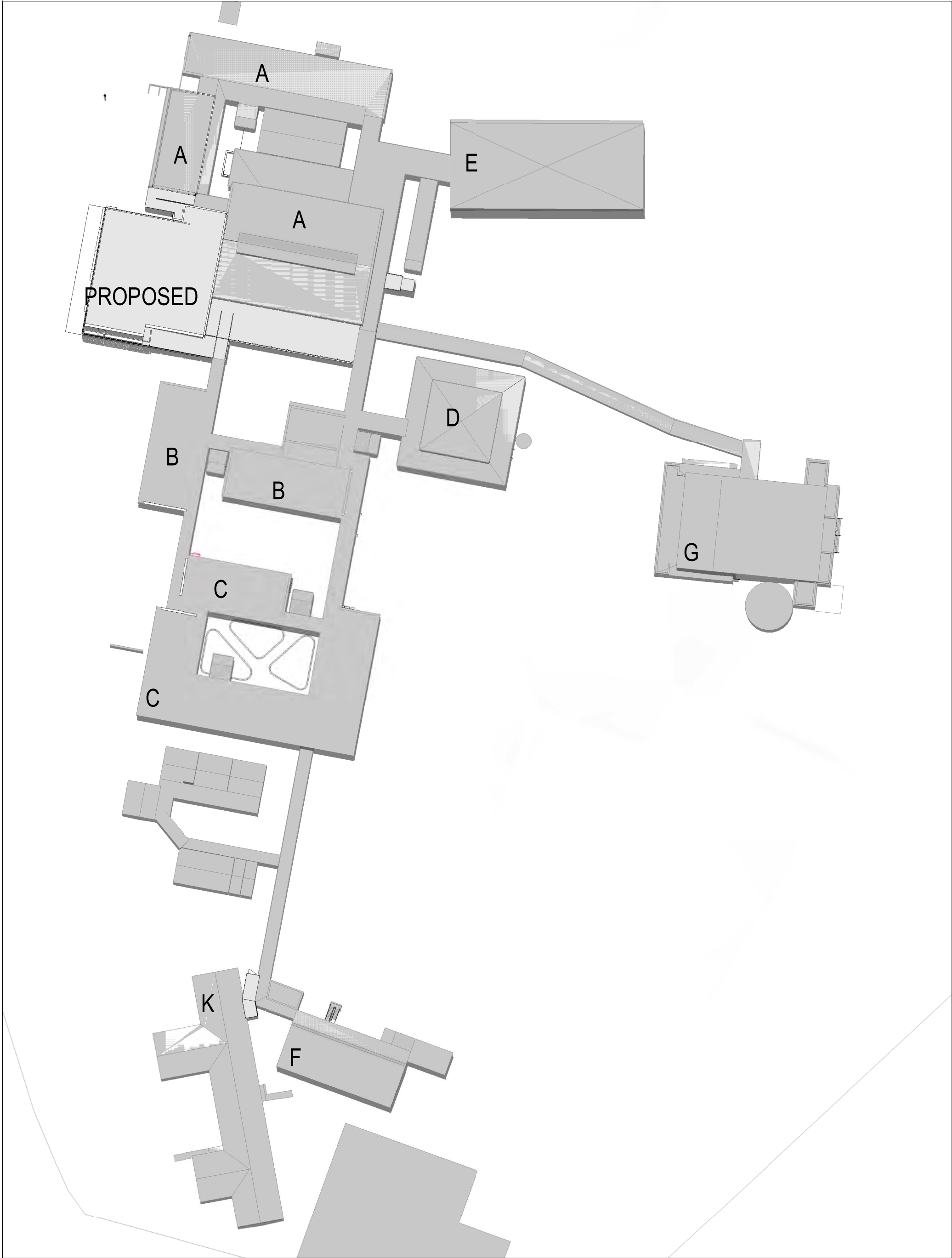
TITLE

SHADOW DIAGRAMS

DRAWING NUMBER	REVISION
AR-H-0350	A



1 NSHS 01 SHADOW DIAGRAMS (9am Summer)



2 NSHS 02 SHADOW DIAGRAMS (12pm Summer)

NOTE- THIS SHEET WAS
PREVIOUSLY NUMBERED
SHEET AR-H-0600

0000 - GENERAL & SITE INFORMATION

ARCHITECTURE:		
0000	GENERAL & SITE INFORMATION	
1000	GENERAL ARRANGEMENT PLANS	
2000	GA RCPS	
3000	GA SECTIONS & ELEVATIONS	
4000	REFERENCE PLANS	
5000	STRUCTURAL SET-OUT	
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7000	INTERIOR DESIGN DETAILS	
8000	EXTERIOR & FACADE DETAILS	
9000	DRAWN SCHEDULES	
9000	SCHEDULES & SPECIFICATIONS	

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No	DATE	REVISIONS	BY
1	12/07/2022	FOR INFORMATION	RF
2	02/08/2022	FOR CONSULTANT	RF
3	03/08/2022	FOR INFORMATION	RF
4	09/09/2022	FOR INFORMATION	RF
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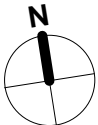
PROJECT

NARRABEEN EDUCATION PRECINCT

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NARRABEEN SPORTS HIGH SCHOOL

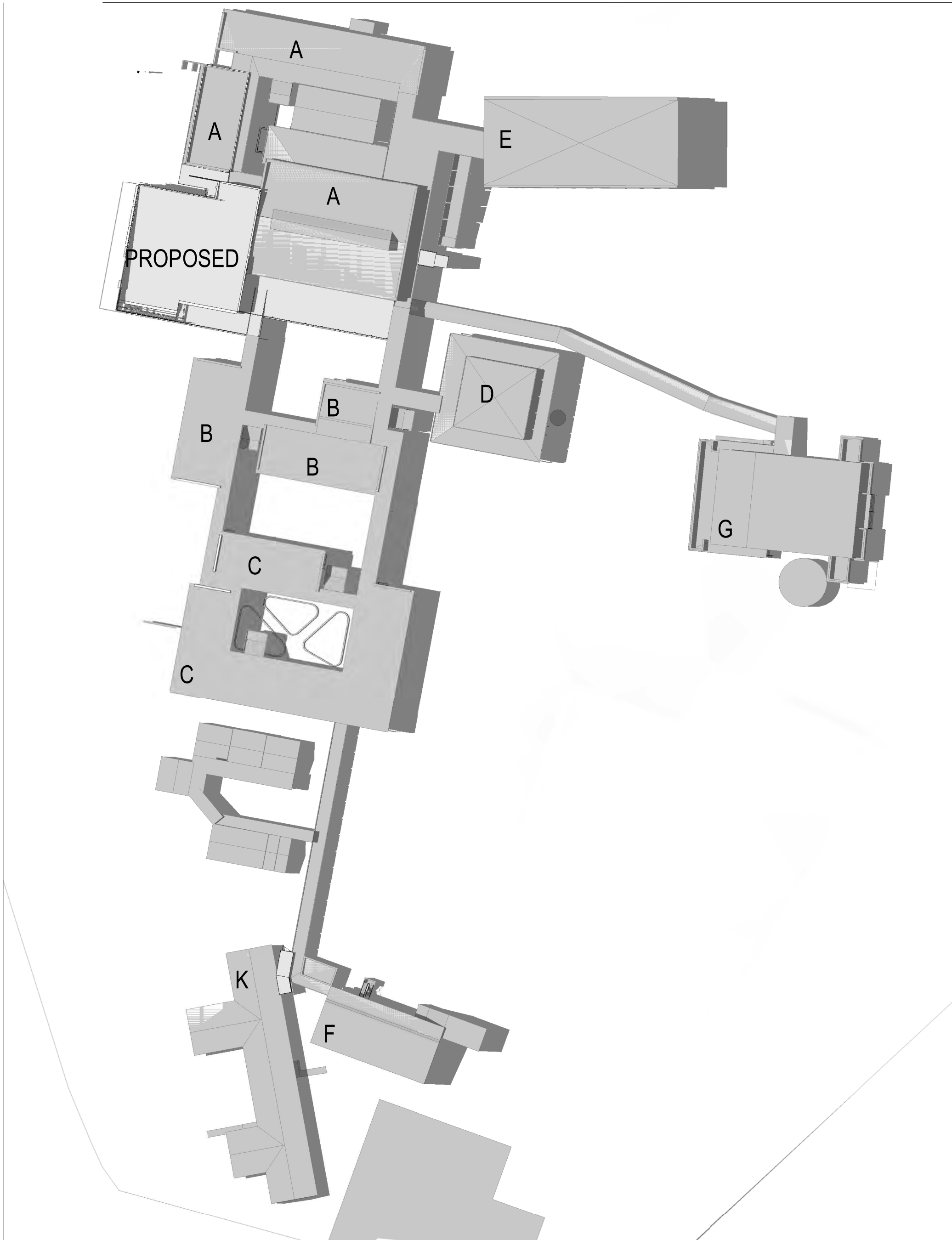
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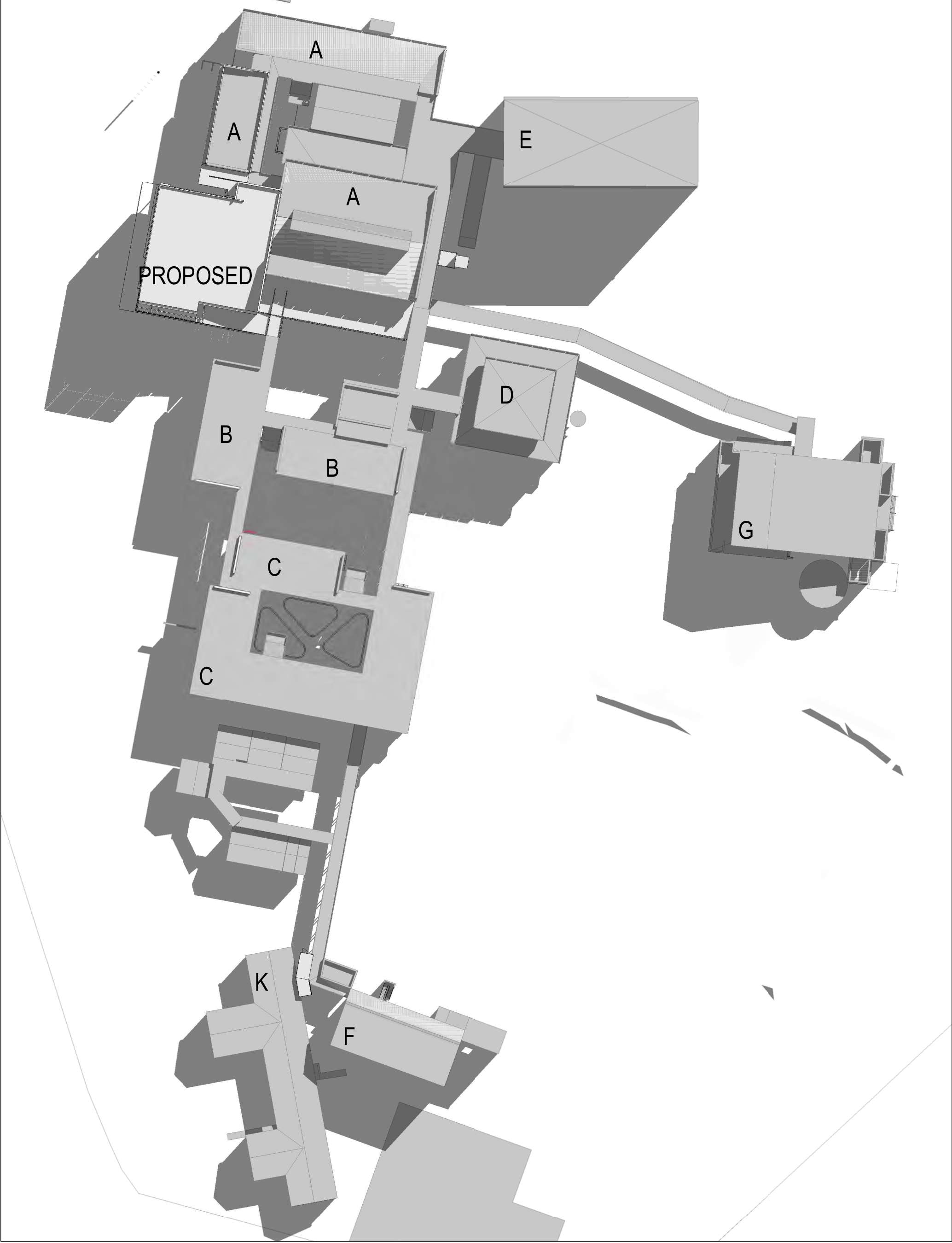
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SHADOW DIAGRAMS

DRAWING NUMBER	REVISION
AR-H-0351	A



1 NSHS 03 SHADOW DIAGRAMS (3pm Summer)



2 NSHS 04 SHADOW DIAGRAMS (9am Winter)

NOTE- THIS SHEET WAS
PREVIOUSLY NUMBERED
SHEET AR-H-0601

0000 - GENERAL & SITE INFORMATION

ARCHITECTURE:		
0000	GENERAL & SITE INFORMATION	
1000	GENERAL ARRANGEMENT PLANS	
2000	GA RCPS	
3000	GA SECTIONS & ELEVATIONS	
4000	REFERENCE PLANS	
5000	STRUCTURAL SET-OUT	
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7000	INTERIOR DESIGN DETAILS	
8000	EXTERIOR & FACADE DETAILS	
9000	DRAWN SCHEDULES	
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No	DATE	REVISIONS	BY
1	12/07/2022	FOR INFORMATION	RF
2	02/08/2022	FOR CONSULTANT	RF
3	03/08/2022	FOR INFORMATION	RF
4	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

ARCHITECT

DesignInc

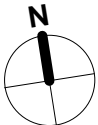
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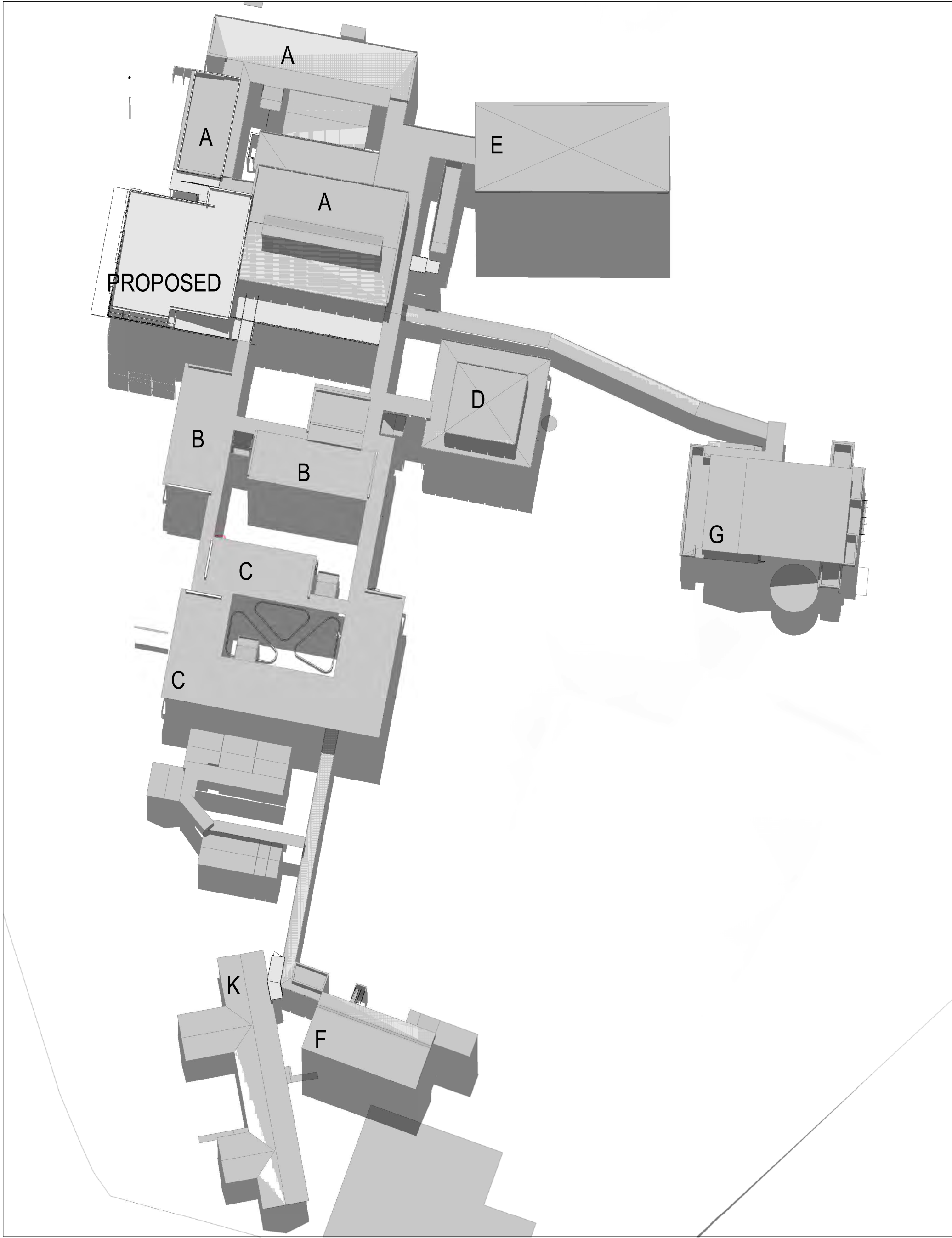
PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	JJ	SCALE
CHECKED	RF	
APPROVED	CM	@ A1

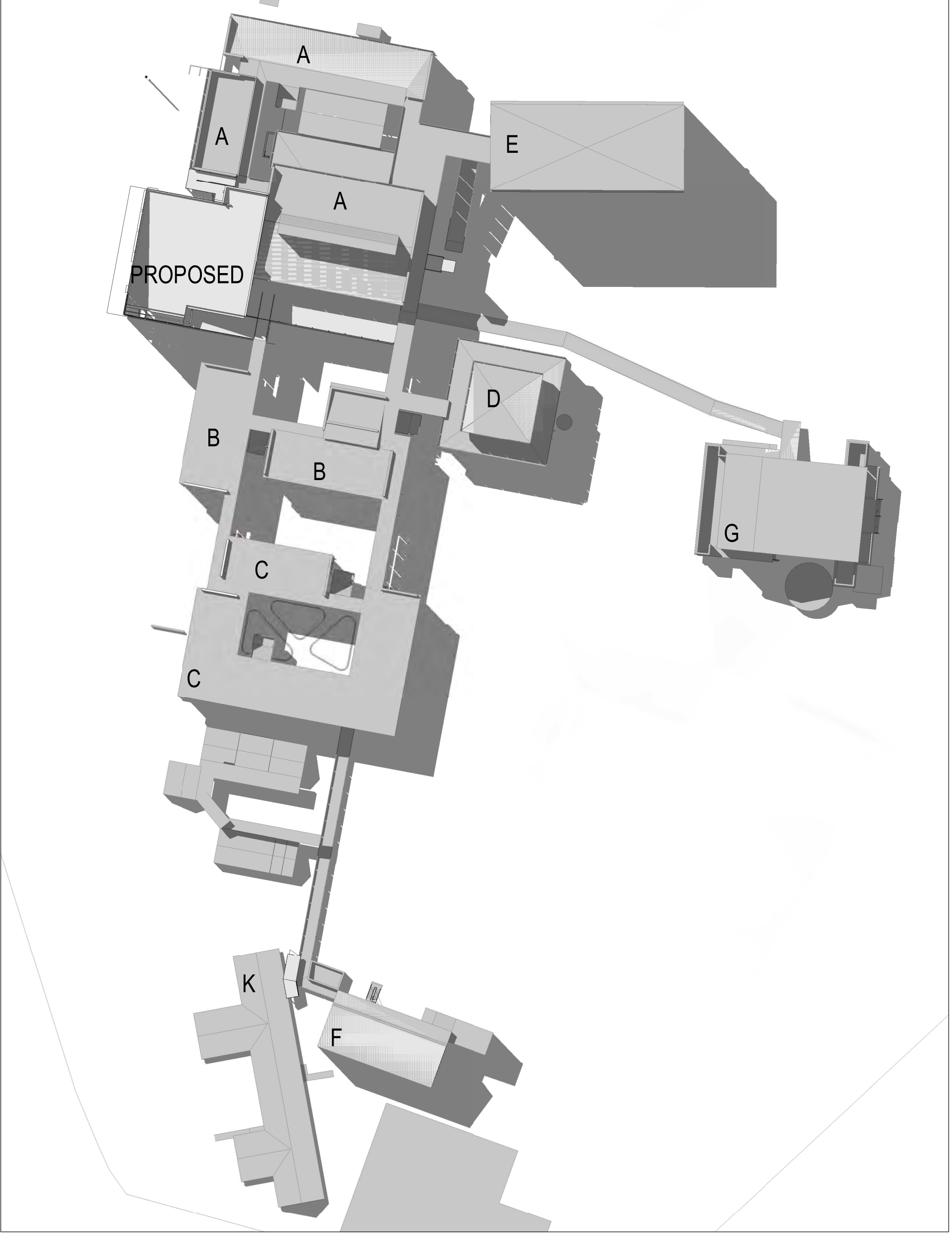


TITLE
SHADOW DIAGRAMS

DRAWING NUMBER	REVISION
AR-H-0352	A

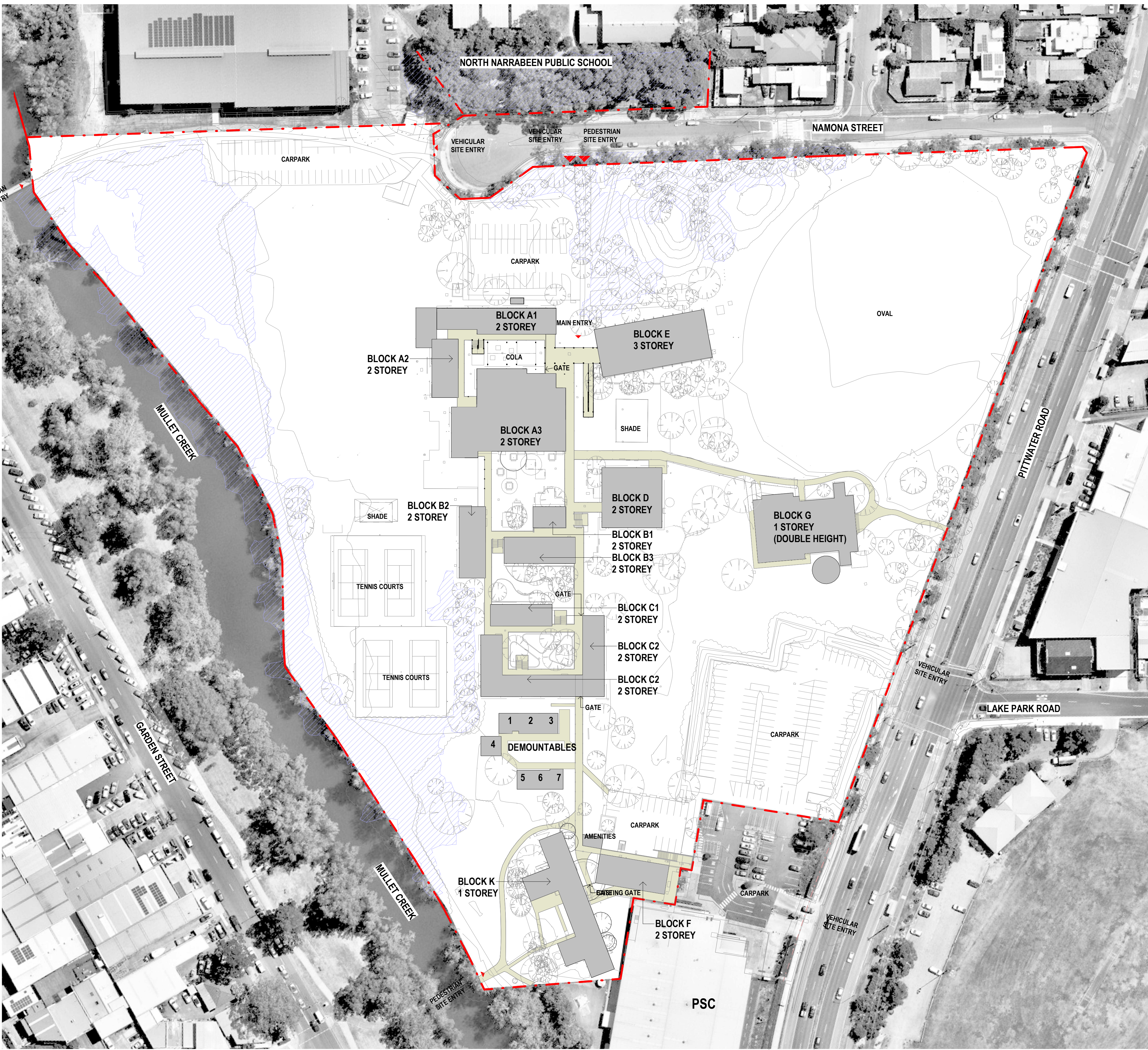


1 NSHS 05 SHADOW DIAGRAMS (12pm Winter)



2 NSHS 06 SHADOW DIAGRAMS (3pm Winter)

NOTE- THIS SHEET WAS
PREVIOUSLY NUMBERED
SHEET AR-H-0602



LEGEND

- EXISTING BUILDING
- CIRCULATION
- COASTAL WETLANDS ZONE

0000 - GENERAL & SITE INFORMATION

- ARCHITECTURE:
- 0000 GENERAL & SITE INFORMATION
 - 1000 GENERAL ARRANGEMENT PLANS
 - 2000 GA RCPs
 - 3000 GA SECTIONS & ELEVATIONS
 - 4000 REFERENCE PLANS
 - 5000 STRUCTURAL SET-OUT
 - 6000 VERTICAL CIRCULATION
 - 7000 INTERIOR DESIGN DETAILS
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No	DATE	REVISIONS	BY
1	26/05/2022	SCHEMATIC DESIGN - DRAFT	JO
2	08/06/2022	PRE-DA - DRAFT	JO
3	29/06/2022	FOR INFORMATION	
4	07/07/2022	FOR INFORMATION	
5	12/07/2022	FOR INFORMATION	RF
6	02/08/2022	FOR CONSULTANT	RF
7	03/08/2022	FOR INFORMATION	RF
8	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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 **Education**

PROJECT

NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	1:750 @ A1

TITLE

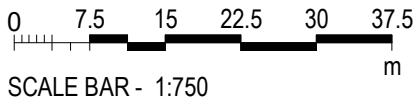
EXISTING SITE PLAN

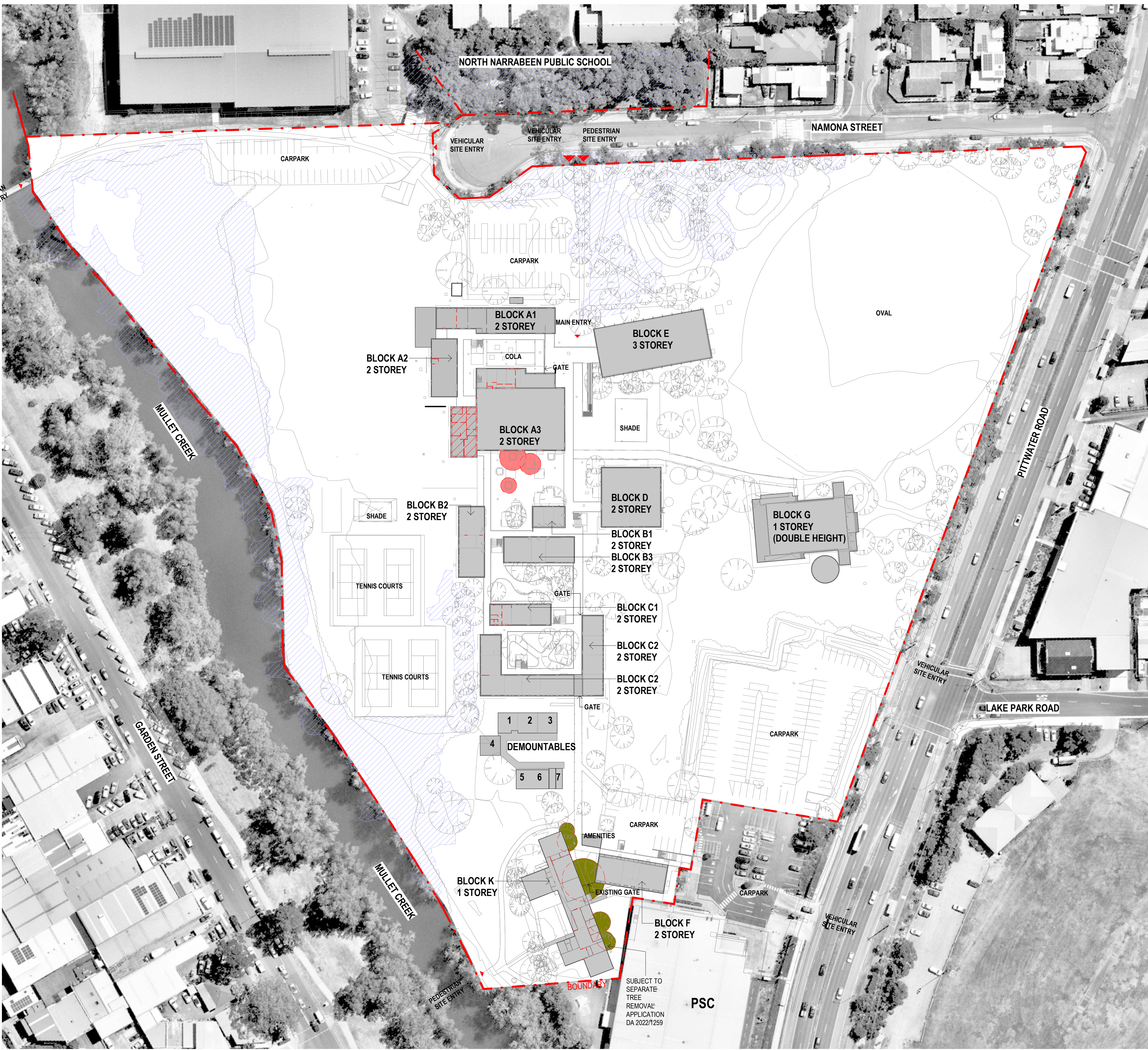
DRAWING NUMBER

AR-H-0510

REVISION

A





LEGEND

- DEMOLISHED/ REMOVED WALL
- DEMOLISHED/ REMOVED BUILDING
- COASTAL WETLANDS ZONE
- EXISTING BUILDING

0000 - GENERAL & SITE INFORMATION

- ARCHITECTURE:
- 0000 GENERAL & SITE INFORMATION
 - 1000 GENERAL ARRANGEMENT PLANS
 - 2000 GA RCPs
 - 3000 GA SECTIONS & ELEVATIONS
 - 4000 REFERENCE PLANS
 - 5000 STRUCTURAL SET-OUT
 - 6000 VERTICAL CIRCULATION
 - 7000 INTERIOR DESIGN DETAILS
 - 8000 EXTERIOR & FACADE DETAILS
 - 9000 DRAWN SCHEDULES
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2	12/07/2022	FOR INFORMATION	RF
3	18/07/2022	FOR INFORMATION	RF
4	02/08/2022	FOR CONSULTANT	RF
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NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB, JJ	SCALE	
CHECKED	RF		
APPROVED	CM	1:750 @ A1	

TITLE

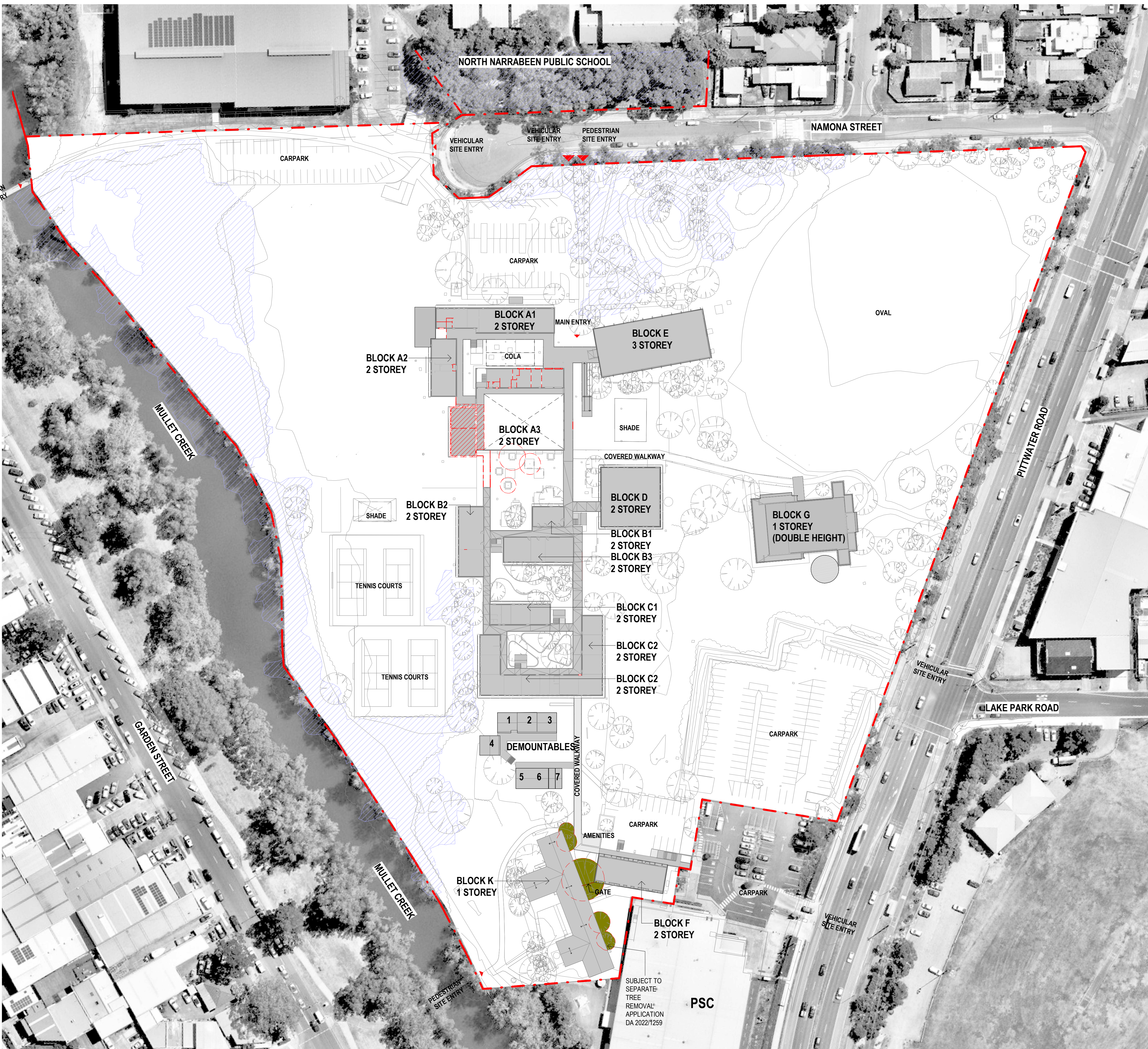
DEMOLITION SITE PLAN - GROUND FLOOR

DRAWING NUMBER

AR-H-0512

REVISION

A



LEGEND

- DEMOLISHED/ REMOVED WALL
- DEMOLISHED/ REMOVED BUILDING
- COASTAL WETLANDS ZONE
- EXISTING BUILDING

0000 - GENERAL & SITE INFORMATION

- ARCHITECTURE:
- 0000 GENERAL & SITE INFORMATION
 - 1000 GENERAL ARRANGEMENT PLANS
 - 2000 GA RCPs
 - 3000 GA SECTIONS & ELEVATIONS
 - 4000 REFERENCE PLANS
 - 5000 STRUCTURAL SET-OUT
 - 6000 VERTICAL CIRCULATION
 - 7000 INTERIOR DESIGN DETAILS
 - 8000 EXTERIOR & FACADE DETAILS
 - 9000 DRAWN SCHEDULES
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6	09/09/2022	FOR INFORMATION	RF
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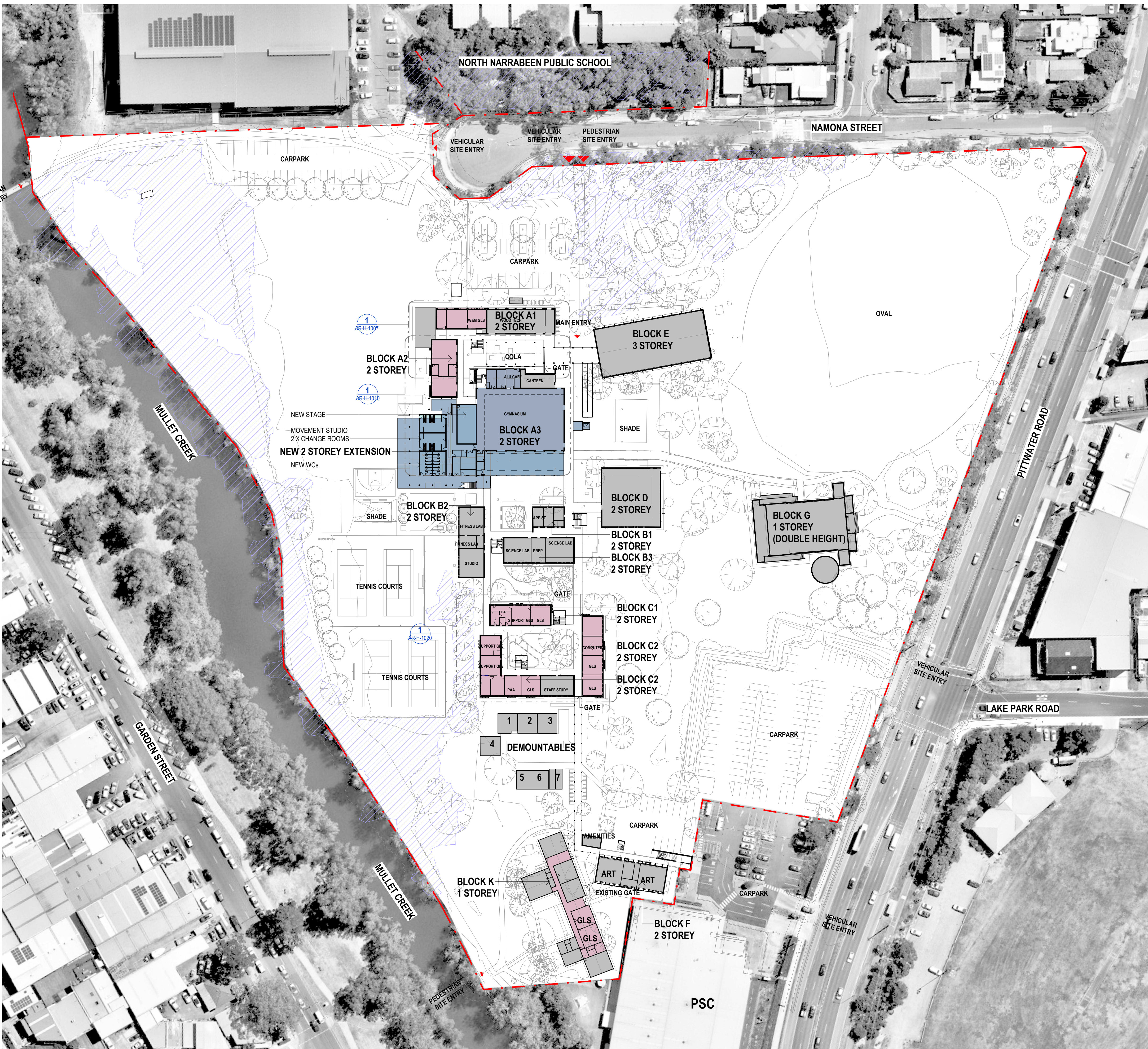


PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS
DRAWN VB, JJ
CHECKED RF
APPROVED CM
SCALE
1:750 @ A1

TITLE
DEMOLITION SITE PLAN - LEVEL 1

DRAWING NUMBER
AR-H-0513
REVISION
A



LEGEND

DEVELOPMENT APPLICATION

DEVELOPMENT WITHOUT CONSENT (SEPARATE APPLICATION)

COASTAL WETLANDS ZONE

OUT OF SCOPE

ARCHITECTURE:

0000 GENERAL & SITE INFORMATION

1000 GENERAL ARRANGEMENT PLANS

2000 GA RCPs

3000 GA SECTIONS & ELEVATIONS

4000 REFERENCE PLANS

5000 STRUCTURAL SET-OUT

6000 VERTICAL CIRCULATION

7000 INTERIOR DESIGN DETAILS

8000 EXTERIOR & FACADE DETAILS

9000 DRAWN SCHEDULES

9000 SCHEDULES & SPECIFICATIONS

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2	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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NSW GOVERNMENT

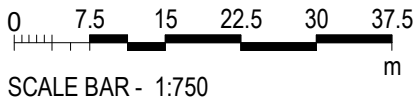
Education

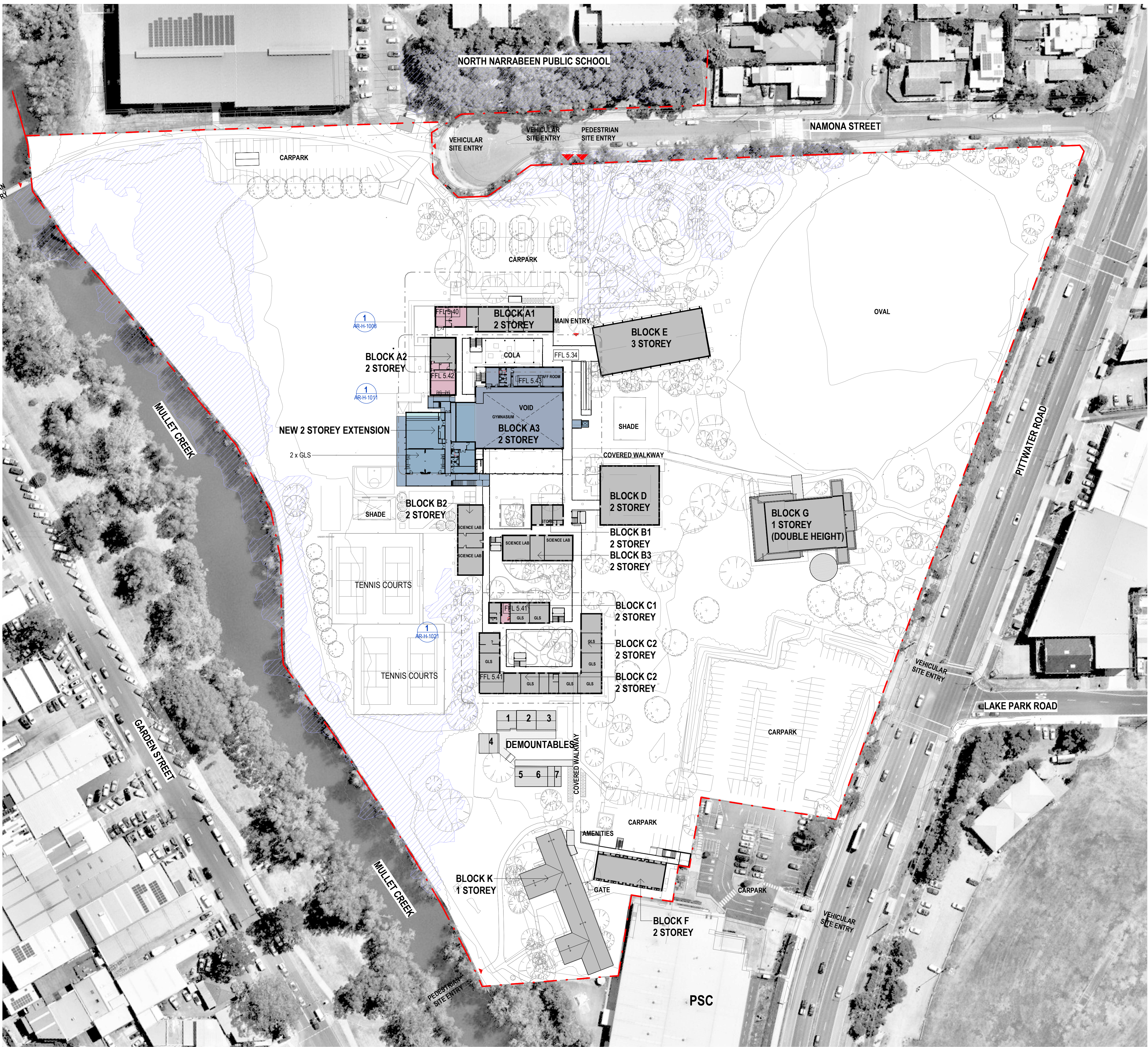
PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS	VB	SCALE
DRAWN	RF	
CHECKED	CM	
APPROVED		1:750 @ A1

TITLE
PROPOSED SITE PLAN - GROUND FLOOR

DRAWING NUMBER	REVISION
AR-H-0521	A





LEGEND

DEVELOPMENT APPLICATION

DEVELOPMENT WITHOUT CONSENT (SEPARATE APPLICATION)

COASTAL WETLANDS ZONE

OUT OF SCOPE

0000 - GENERAL & SITE INFORMATION

- ARCHITECTURE:
- 0000 GENERAL & SITE INFORMATION
 - 1000 GENERAL ARRANGEMENT PLANS
 - 2000 GA RCPs
 - 3000 GA SECTIONS & ELEVATIONS
 - 4000 REFERENCE PLANS
 - 5000 STRUCTURAL SET-OUT
 - 6000 VERTICAL CIRCULATION
 - 7000 INTERIOR DESIGN DETAILS
 - 8000 EXTERIOR & FACADE DETAILS
 - 9000 DRAWN SCHEDULES
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1	02/09/2022	FOR REVIEW	RF
2	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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 **NSW**
GOVERNMENT

Education

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NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL


DETAILS

DRAWN
CHECKED
APPROVED

VB
RF
CM

SCALE

1:750 @ A1



TITLE

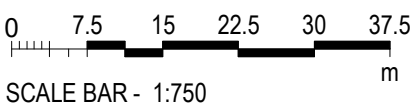
PROPOSED SITE PLAN-LEVEL 1 PLAN

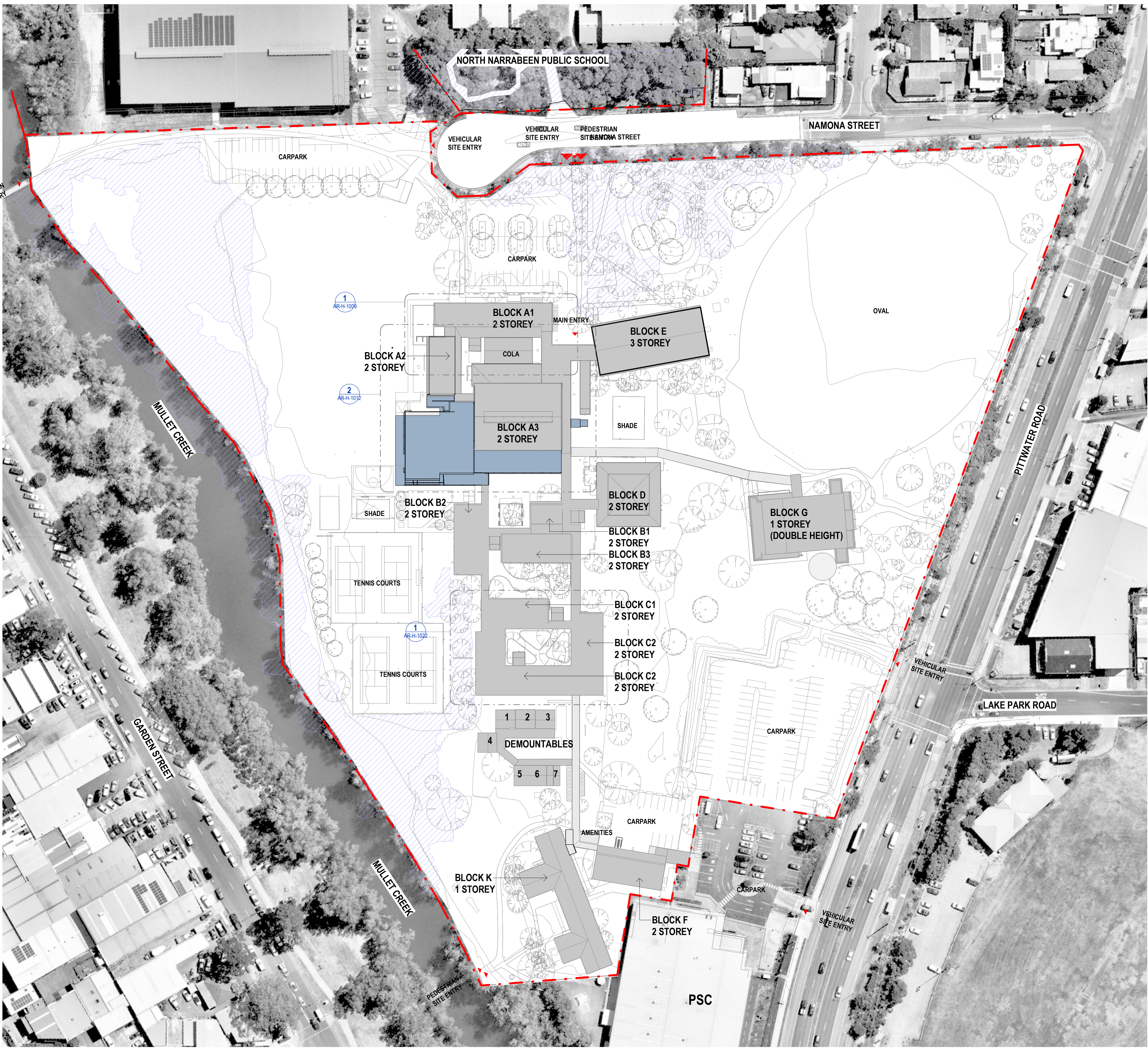
DRAWING NUMBER

AR-H-0522

REVISION

A





LEGEND

- DEVELOPMENT APPLICATION
- DEVELOPMENT WITHOUT CONSENT (SEPARATE APPLICATION)
- COASTAL WETLANDS ZONE
- OUT OF SCOPE

0000 - GENERAL & SITE INFORMATION

ARCHITECTURE:
0000 GENERAL & SITE INFORMATION
1000 GENERAL ARRANGEMENT PLANS
2000 GA RCPs
3000 GA SECTIONS & ELEVATIONS
4000 REFERENCE PLANS
5000 STRUCTURAL SET-OUT
6000 VERTICAL CIRCULATION
7000 INTERIOR DESIGN DETAILS
8000 EXTERIOR & FACADE DETAILS
9000 DRAWN SCHEDULES
9000 SCHEDULES & SPECIFICATIONS

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PROJECT
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NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS
DRAWN VB
CHECKED RF
APPROVED CM
SCALE
1:750 @ A1

TITLE
PROPOSED SITE PLAN ROOF PLAN

DRAWING NUMBER
AR-H-0523
REVISION
A

0 7.5 15 22.5 30 37.5
SCALE BAR - 1:750

0500 - EXISTING AND DEMOLITION PLANS

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

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No	DATE	REVISIONS	BY
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2	31/08/2022	FOR REVIEW	TJF
3	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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PROJECT

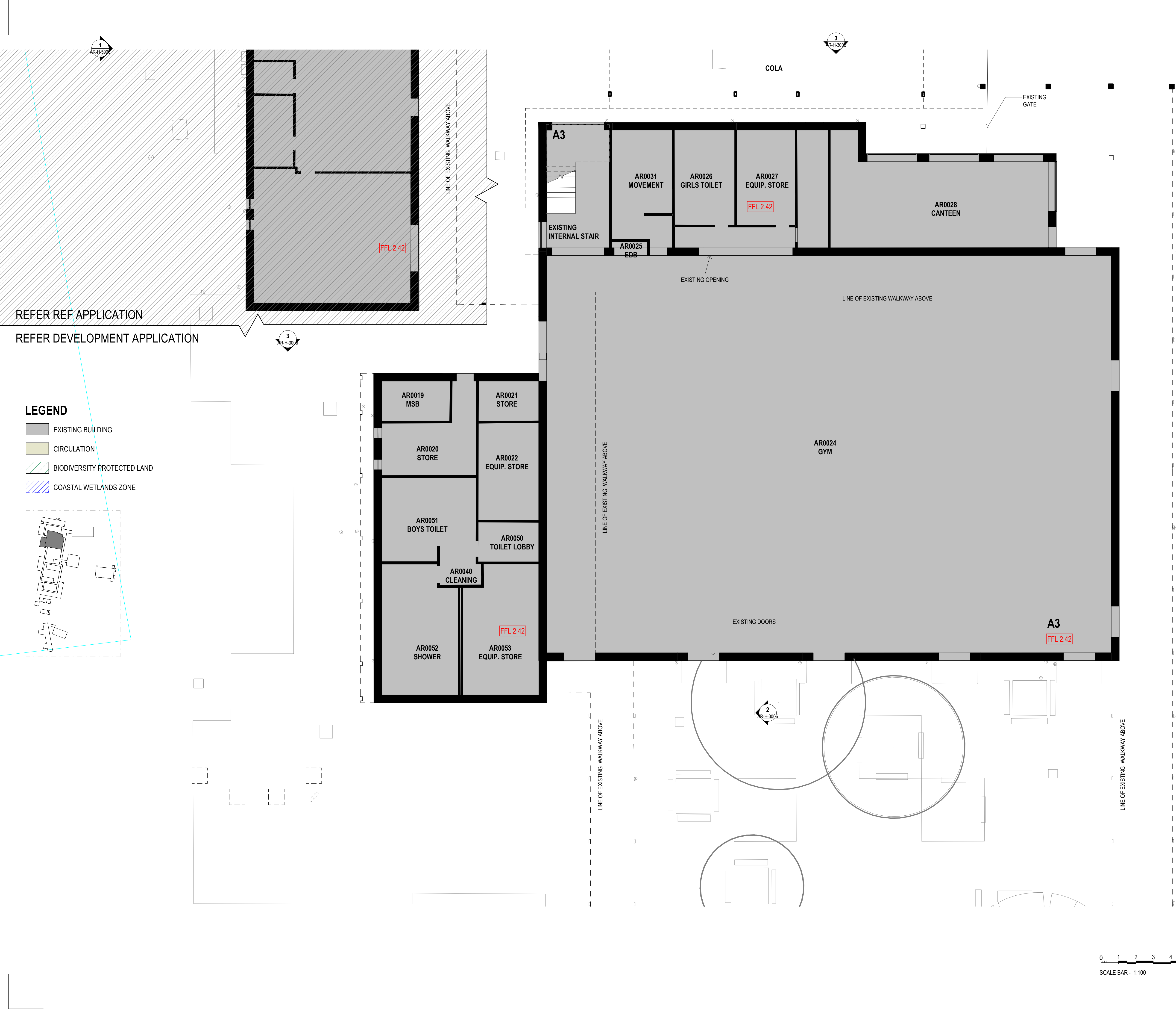
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	VB	SCALE
CHECKED	RF	
APPROVED	CM	1:100 @ A1

TITLE

EXISTING PLAN- BLOCK A SOUTH GROUND FLOOR

DRAWING NUMBER	REVISION
AR-H-0533	A



0500 - EXISTING AND DEMOLITION PLANS

ARCHITECTURE:		
0000	GENERAL & SITE INFORMATION	
1000	GENERAL ARRANGEMENT PLANS	
2000	GA RCPS	
3000	GA SECTIONS & ELEVATIONS	
4000	REFERENCE PLANS	
5000	STRUCTURAL SET-OUT	
6000	VERTICAL CIRCULATION	
7000	INTERIOR DESIGN DETAILS	
8000	EXTERIOR & FACADE DETAILS	
9000	DRAWN SCHEDULES	
9000	SCHEDULES & SPECIFICATIONS	

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A	15/09/2022	ISSUE FOR DA	

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PROJECT

NARRABEEN EDUCATION PRECINCT

NAMONA ST, NORTH NARRABEEN NSW 2101

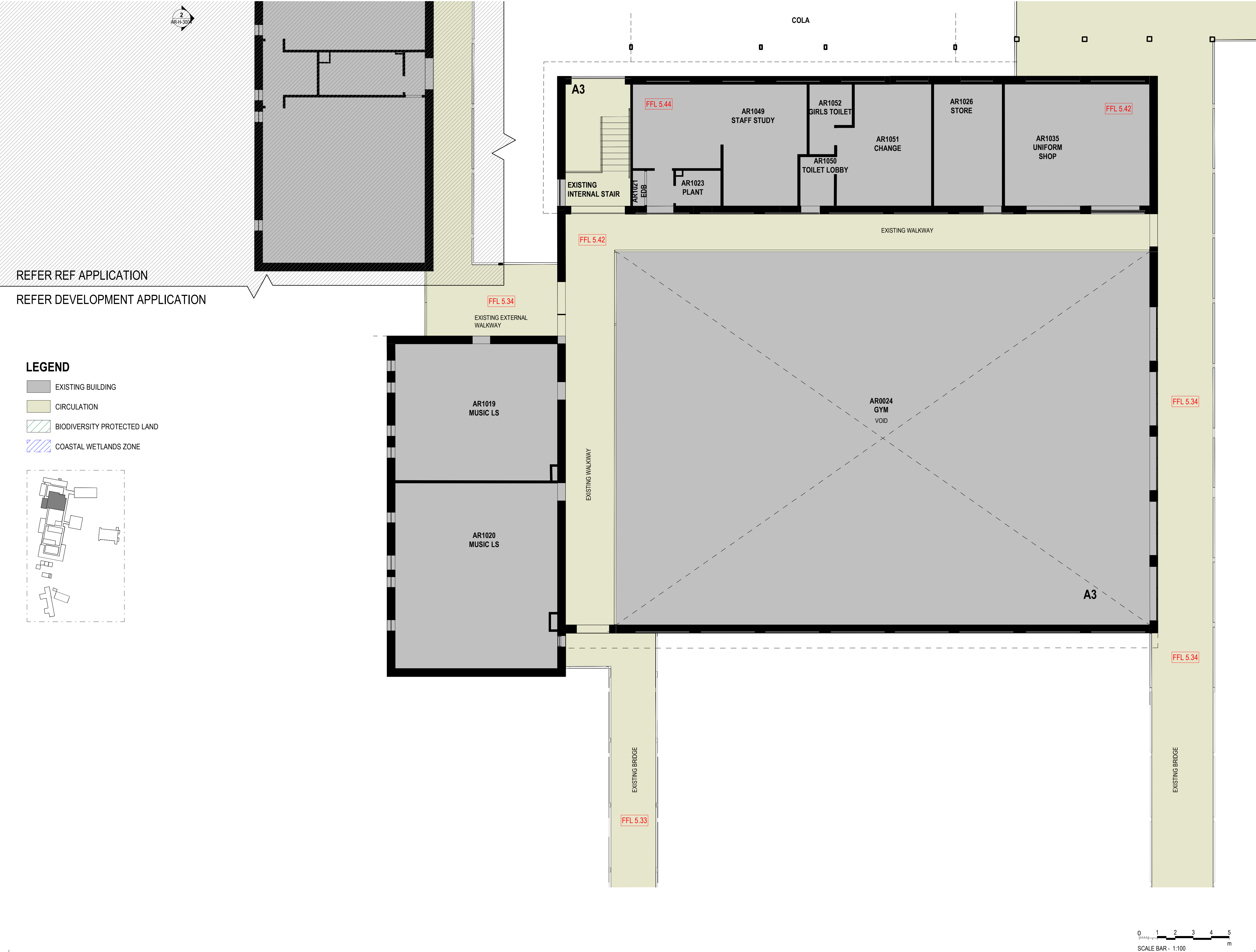
NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	VB	SCALE
CHECKED	RF	
APPROVED	CM	1:100 @ A1

TITLE

EXISTING PLAN- BLOCK A SOUTH LEVEL 1

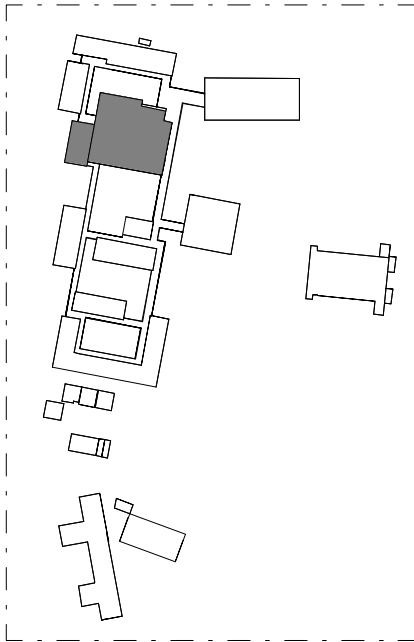
DRAWING NUMBER	REVISION
AR-H-0534	A



REFER REF APPLICATION

REFER DEVELOPMENT APPLICATION

- LEGEND
- EXISTING BUILDING
 - CIRCULATION
 - BIODIVERSITY PROTECTED LAND
 - COASTAL WETLANDS ZONE



	ARCHITECTURE:
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPs
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FAÇADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

No	DATE	REVISIONS	BY
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2	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	


ARCHITECT

DesignInc

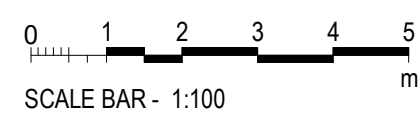
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CLIENT

 | Education

DETAILS			
DRAWN	VB	SCALE	
CHECKED	TF		
APPROVED	CM	1:100 @ A1	

DRAWING NUMBER	REVISION
AR-H-0535	A



0500 - EXISTING AND DEMOLITION PLANS

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

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No	DATE	REVISIONS	BY
1	24/08/2022	FOR INFORMATION	
2	31/08/2022	FOR REVIEW	TJF
3	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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PROJECT

NARRABEEN EDUCATION PRECINCT

NAMONA ST, NORTH NARRABEEN NSW 2101

NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	VB	SCALE
CHECKED	RF	
APPROVED	CM	1:100 @ A1

TITLE

DEMOLITION PLAN - GROUND FLOOR_BLOCK A SOUTH

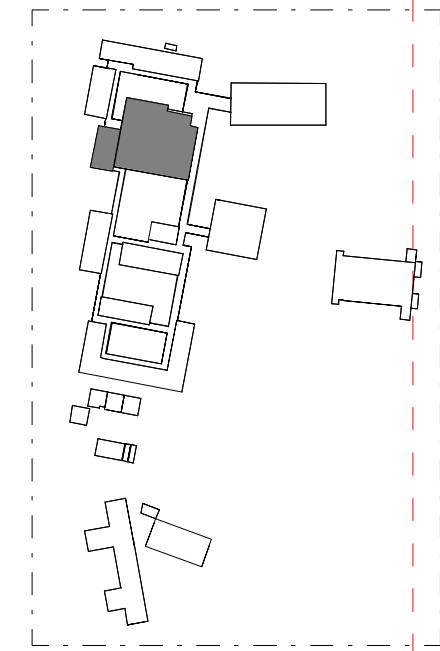
DRAWING NUMBER	REVISION
AR-H-0553	A

REFER REF APPLICATION

REFER DEVELOPMENT APPLICATION

LEGEND

- DEMOLISHED/REMOVED WALL
- DEMOLISHED BUILDING
- REMOVED FINISHES
- OUT OF SCOPE



0500 - EXISTING AND DEMOLITION PLANS

ARCHITECTURE:		
0000	GENERAL & SITE INFORMATION	
1000	GENERAL ARRANGEMENT PLANS	
2000	GA RCPS	
3000	GA SECTIONS & ELEVATIONS	
4000	REFERENCE PLANS	
5000	STRUCTURAL SET-OUT	
6000	VERTICAL CIRCULATION	
7000	INTERIOR DESIGN DETAILS	
8000	EXTERIOR & FACADE DETAILS	
9000	DRAWN SCHEDULES	
9000	SCHEDULES & SPECIFICATIONS	

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A	15/09/2022	ISSUE FOR DA	

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PROJECT

NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

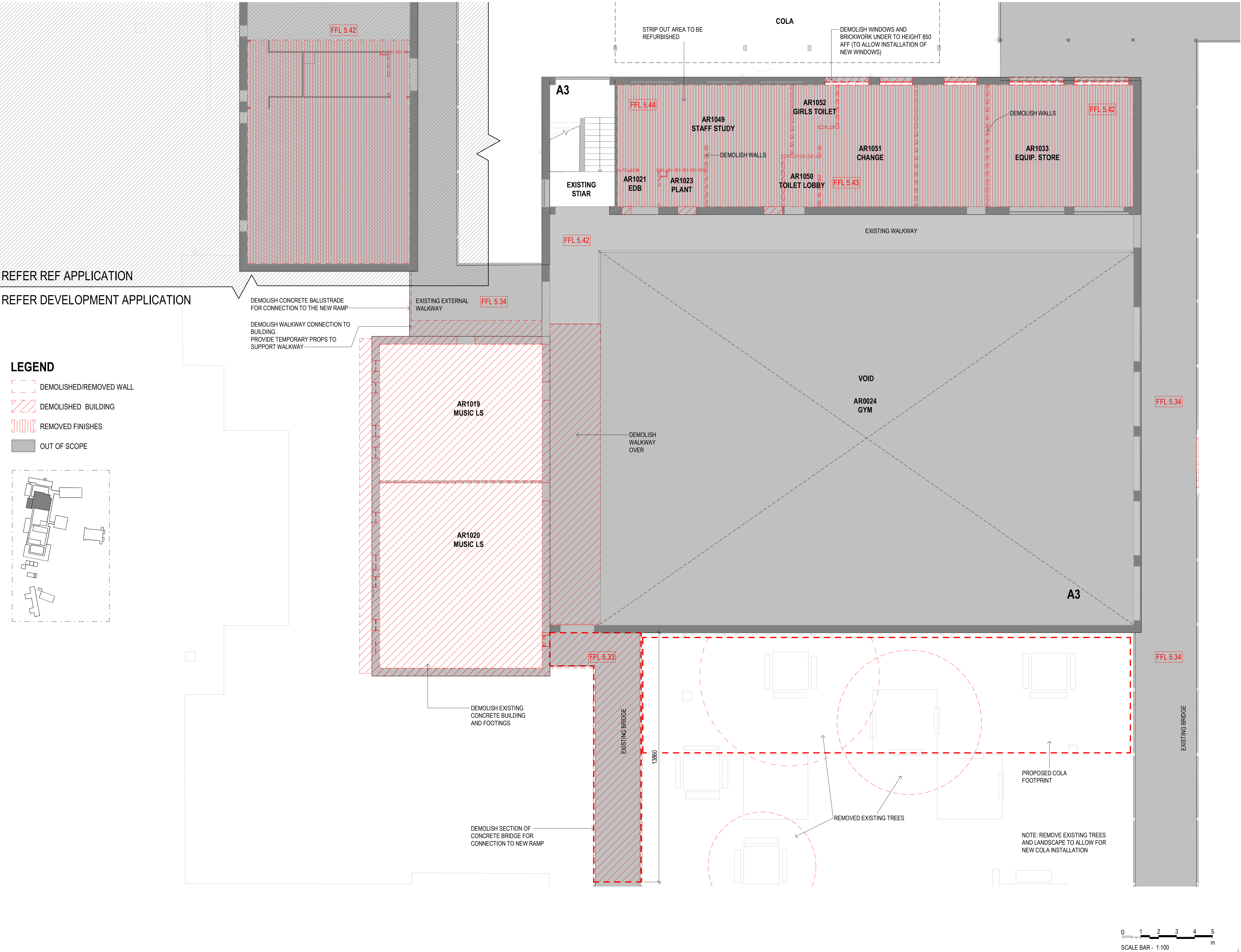
DETAILS

DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	1:100 @ A1

TITLE

DEMOLITION SITE PLAN_BLOCK A
SOUTH_LEVEL 1

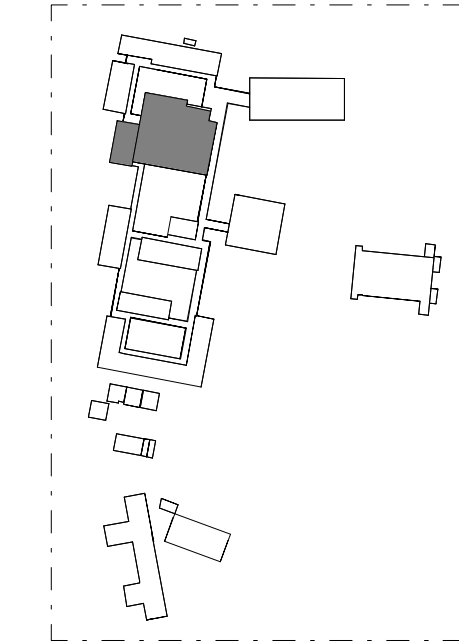
DRAWING NUMBER	REVISION
AR-H-0554	A



REFER REF APPLICATION

REFER DEVELOPMENT APPLICATION

- LEGEND
- DEMOLISHED/REMOVED WALL
 - DEMOLISHED BUILDING
 - REMOVED FINISHES
 - OUT OF SCOPE



0500 - EXISTING AND DEMOLITION PLANS

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
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A	15/09/2022	ISSUE FOR DA	

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PROJECT

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NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB	SCALE
CHECKED	TF	
APPROVED	CM	1:100 @ A1

TITLE

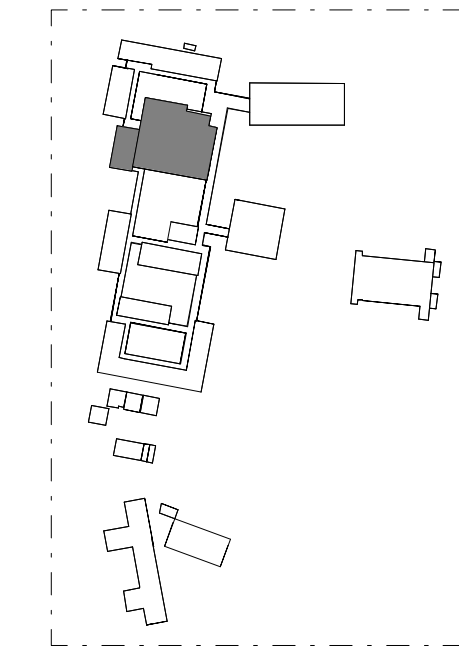
DEMOLITION PLAN_BLOCK A SOUTH_ROOF PLAN

DRAWING NUMBER	REVISION
AR-H-0555	A

REFER REF APPLICATION

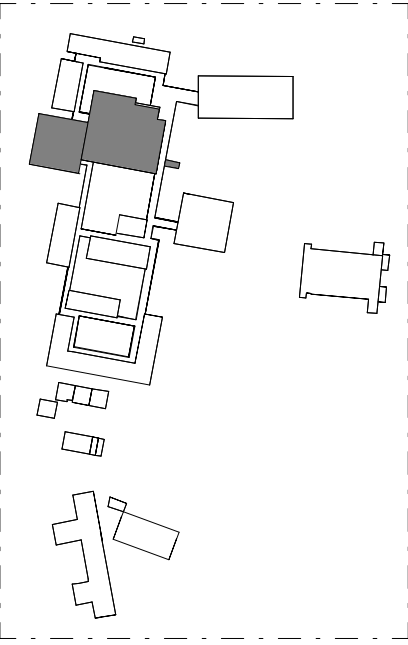
REFER DEVELOPMENT APPLICATION

- LEGEND
- DEMOLISHED/REMOVED WALL
 - DEMOLISHED BUILDING
 - REMOVED FINISHES
 - OUT OF SCOPE



LEGEND

- EXISTING
- REFURBISHMENT
- NEW BUILDING
- EXISTING CIRCULATION
- NEW CIRCULATION
- EXISTING WALLS
- NEW WALLS



REFER DEVELOPMENT APPLICATION

REFER REF APPLICATION

LINE OF EXISTING WALKWAY ABOVE

EXISTING COLA

PROPOSED DRINKING FOUNTAIN

PROPOSED MECHANICAL ENCLOSURE

EXISTING GATE

LINE OF EXISTING WALKWAY ABOVE

AR-H-3010

LINE OF EXISTING WALKWAY ABOVE

LINE OF EXISTING WALKWAY ABOVE

NOTE: FFL FOR NEW EXTENSION ALLOWS GPO'S TO BE LOCATED AT RL 3.45, WHICH IS 900MM AFFL OF FFL 2.55.

1000 - GA PLANS

- ARCHITECTURE:
- 0000 GENERAL & SITE INFORMATION
 - 1000 GENERAL ARRANGEMENT PLANS
 - 2000 GA RCPS
 - 3000 GA SECTIONS & ELEVATIONS
 - 4000 REFERENCE PLANS
 - 5000 STRUCTURAL SET-OUT
 - 6000 VERTICAL CIRCULATION
 - 7000 INTERIOR DESIGN DETAILS
 - 8000 EXTERIOR & FACADE DETAILS
 - 9000 DRAWN SCHEDULES
 - 9000 SCHEDULES & SPECIFICATIONS

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No	DATE	REVISIONS	BY
1	13/05/2022	SCHEMATIC DESIGN	RF
2	26/05/2022	SCHEMATIC DESIGN - DRAFT	JO
3	08/06/2022	PRE-DA - DRAFT	JO
4	29/06/2022	FOR INFORMATION	
5	07/07/2022	FOR INFORMATION	
6	12/07/2022	FOR INFORMATION	RF
7	02/08/2022	FOR CONSULTANT	RF
8	03/08/2022	FOR INFORMATION	RF
9	10/08/2022	FOR INFORMATION	RF
10	24/08/2022	FOR INFORMATION	
11	31/08/2022	FOR REVIEW	TJF
12	03/09/2022	FOR REVIEW	TJF
13	09/09/2022	FOR INFORMATION	RF
14	14/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

TITLE

PROPOSED PLAN_ BLOCK A
SOUTH_GROUND FLOOR

DRAWING NUMBER

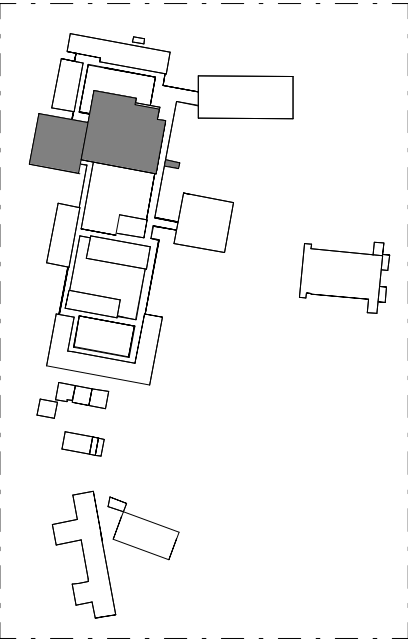
AR-H-1010

REVISION

A

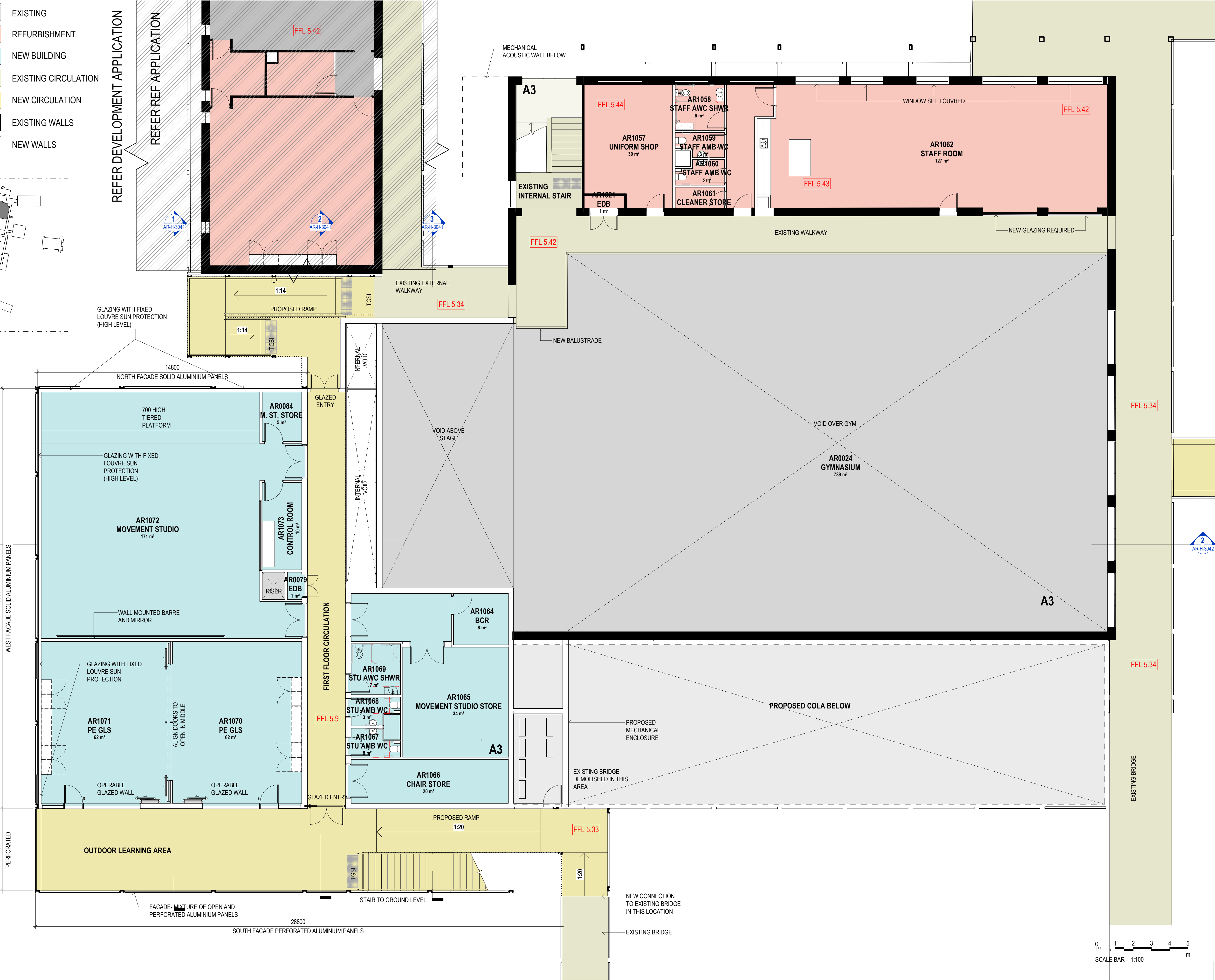
LEGEND

- EXISTING
- REFURBISHMENT
- NEW BUILDING
- EXISTING CIRCULATION
- NEW CIRCULATION
- EXISTING WALLS
- NEW WALLS



REFER DEVELOPMENT APPLICATION

REFER REF APPLICATION



1000 - GA PLANS

- ARCHITECTURE:
- 0000 GENERAL & SITE INFORMATION
 - 1000 GENERAL ARRANGEMENT PLANS
 - 2000 GA RCPS
 - 3000 GA SECTIONS & ELEVATIONS
 - 4000 REFERENCE PLANS
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6	12/07/2022	FOR INFORMATION	RF
7	02/08/2022	FOR CONSULTANT	RF
8	03/08/2022	FOR INFORMATION	RF
9	10/08/2022	FOR INFORMATION	RF
10	24/08/2022	FOR INFORMATION	
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NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

TITLE

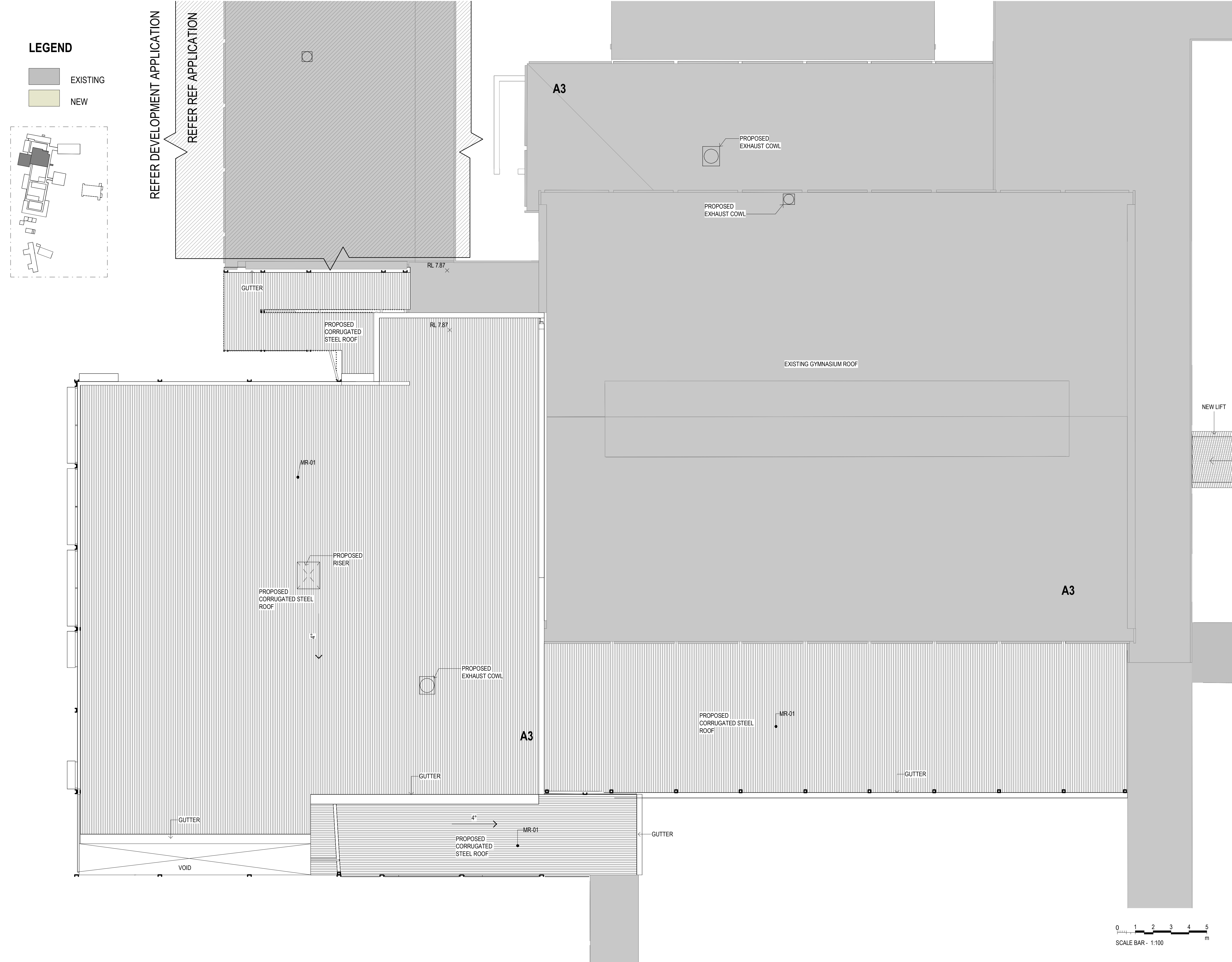
PROPOSED PLAN_BLOCK A SOUTH_LEVEL 1

DRAWING NUMBER

AR-H-1011

REVISION

A



1000 - GA PLANS

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPs
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
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NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

TITLE
PROPOSED PLAN_BLOCK A SOUTH_ROOF PLAN

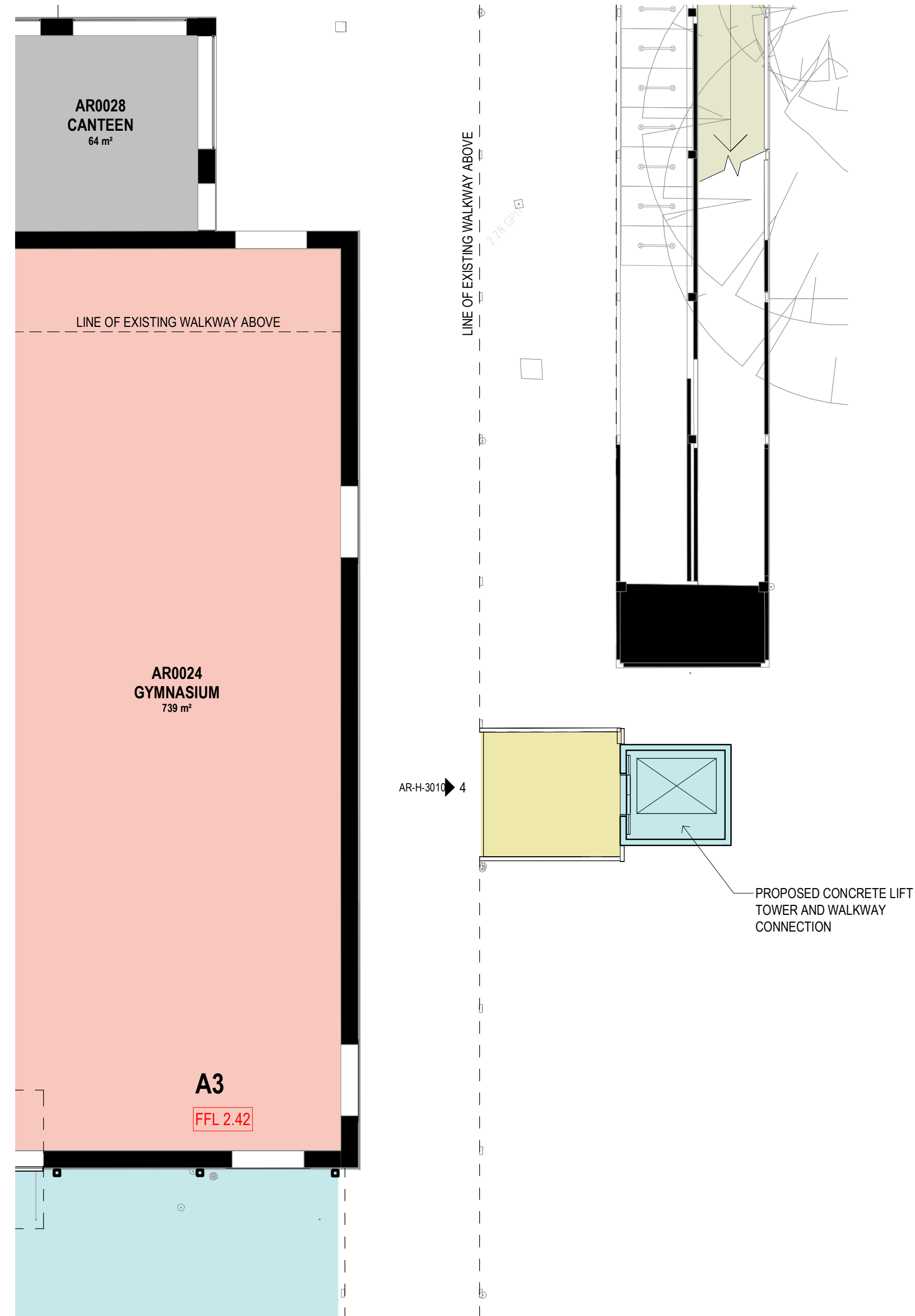
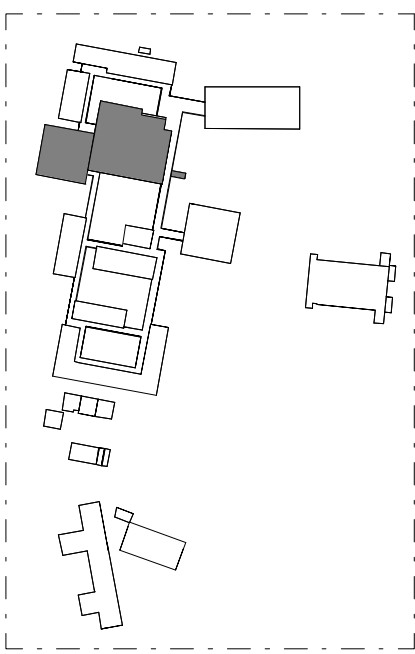
DRAWING NUMBER	REVISION
AR-H-1012	A

LEGEND

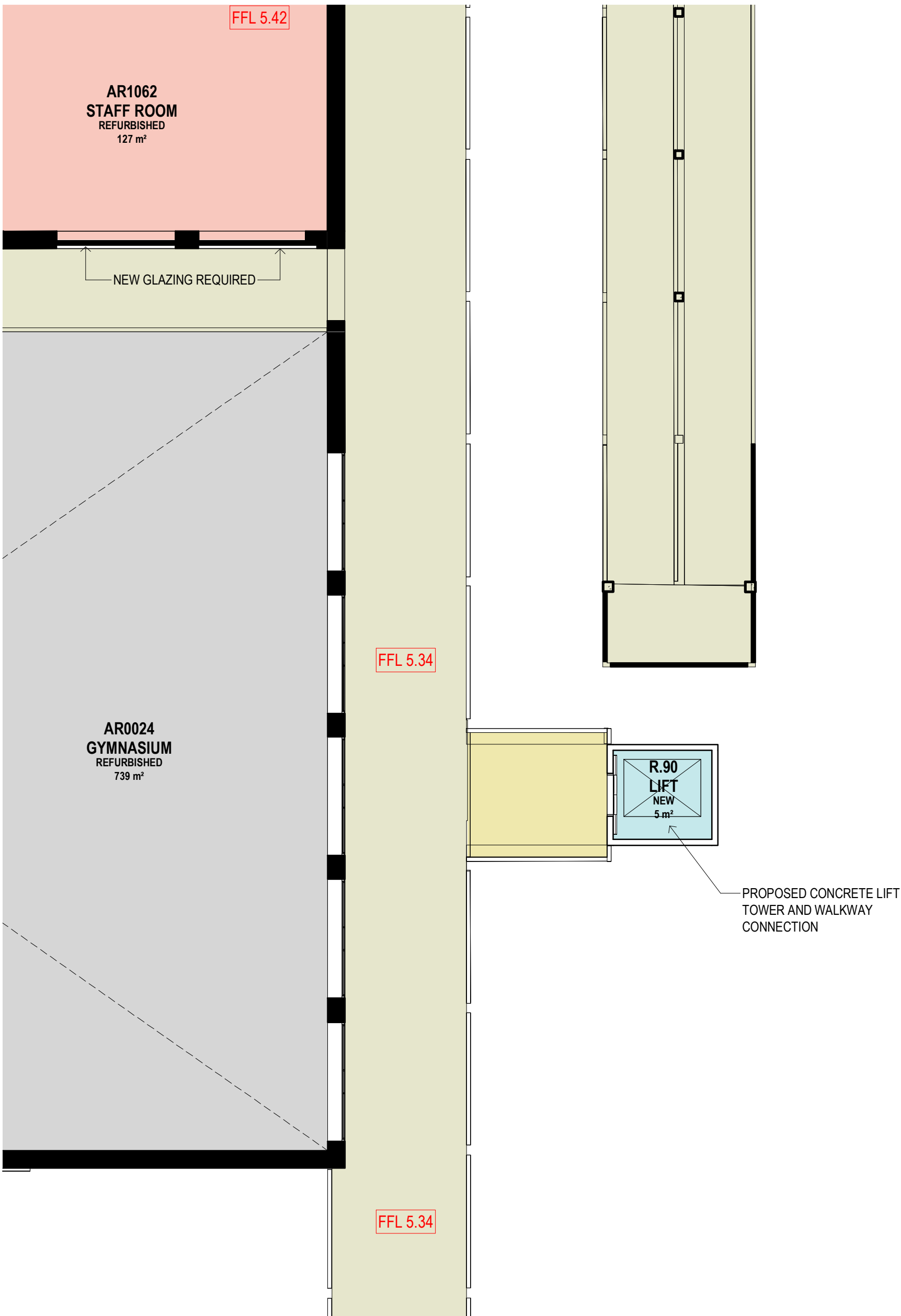
- EXISTING
- REFURBISHMENT
- NEW BUILDING
- EXISTING CIRCULATION
- NEW CIRCULATION
- EXISTING WALLS
- NEW WALLS

LEGEND

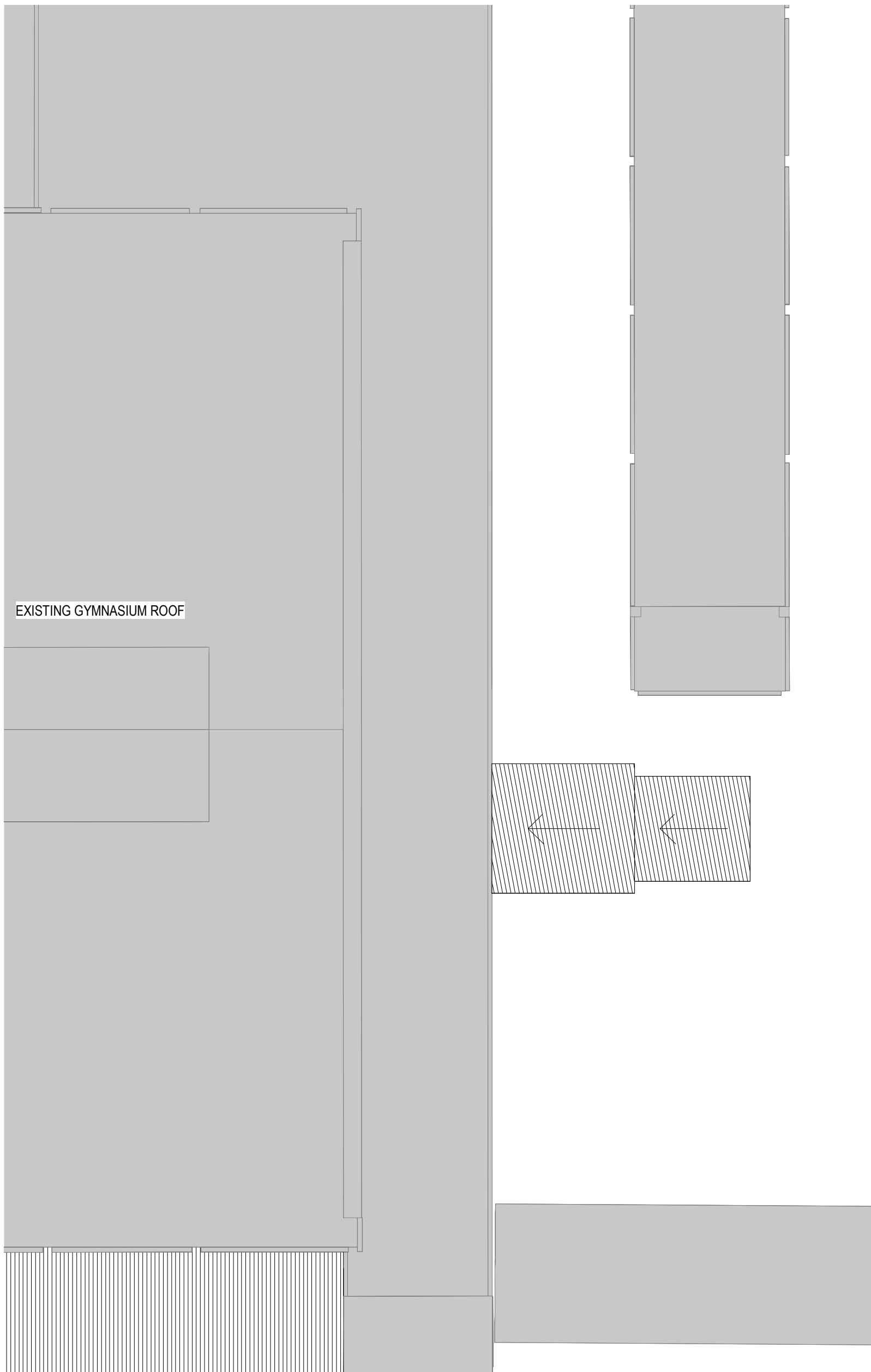
- EXISTING
- NEW



1 PROPOSED GROUND FLOOR PLAN - BLOCK A LIFT



2 PROPOSED LEVEL 1 PLAN - BLOCK A LIFT



3 PROPOSED ROOF PLAN - BLOCK A LIFT

1000 - GA PLANS

ARCHITECTURE:	
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3000	GA SECTIONS & ELEVATIONS
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NARRABEEN SPORTS HIGH SCHOOL

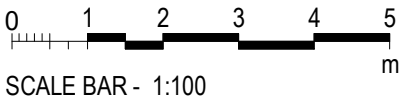
DETAILS

DRAWN	JJ	SCALE
CHECKED	TF	
APPROVED	CM	1 : 100 @ A1

TITLE

PROPOSED PLAN_ BLOCK A LIFT

DRAWING NUMBER	REVISION
AR-H-1013	A



LEGEND

DEVELOPMENT
APPLICATION

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

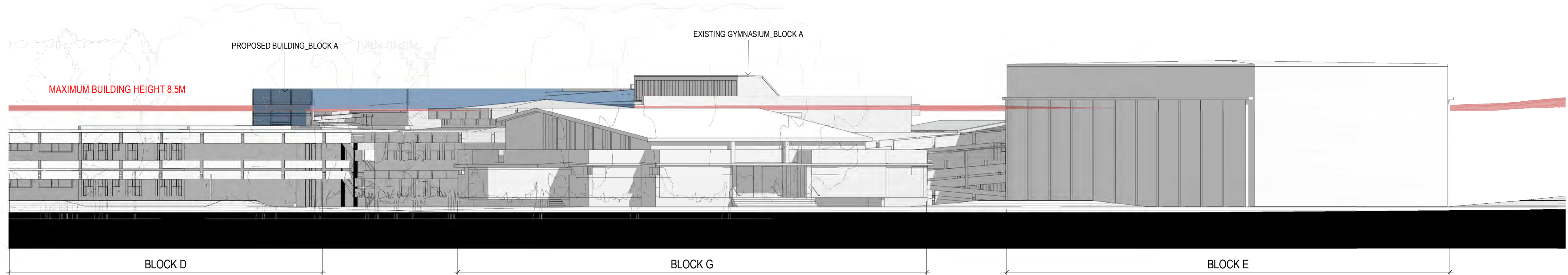
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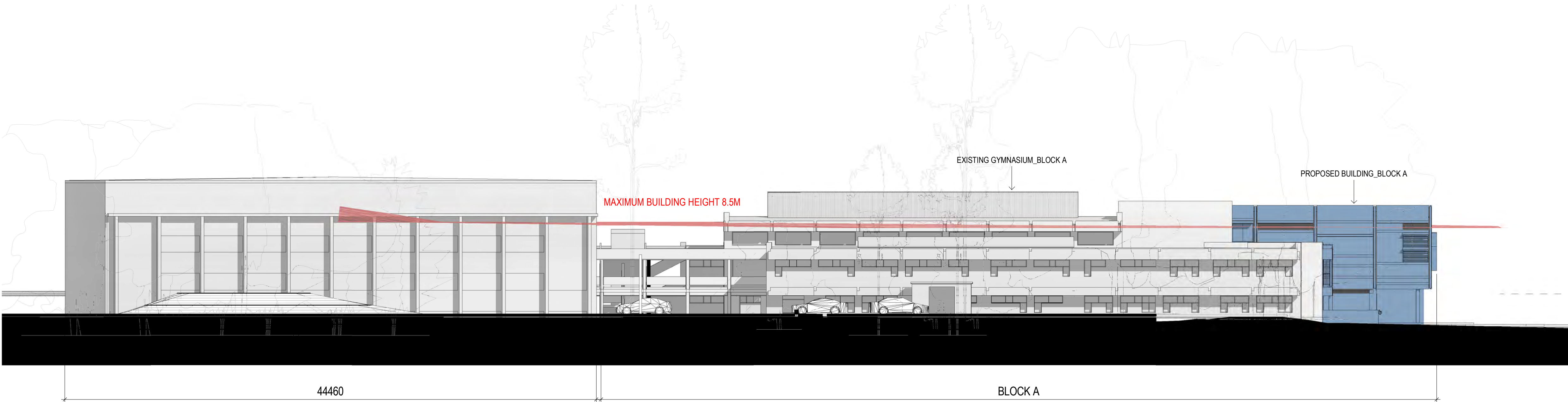
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No	DATE	REVISIONS	BY
1	29/06/2022	FOR INFORMATION	
2	09/09/2022	FOR INFORMATION	RF



1 PITTWATER ROAD STREET VIEW



2 NAMONA STREET STREET VIEW

DA

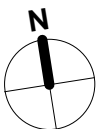
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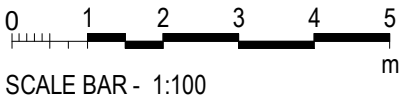
PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	VB	SCALE
CHECKED	RF	
APPROVED	CM	As indicated @ A1



TITLE
ELEVATIONS- STREET ELEVATIONS

DRAWING NUMBER	REVISION
AR-H-3000	2



3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

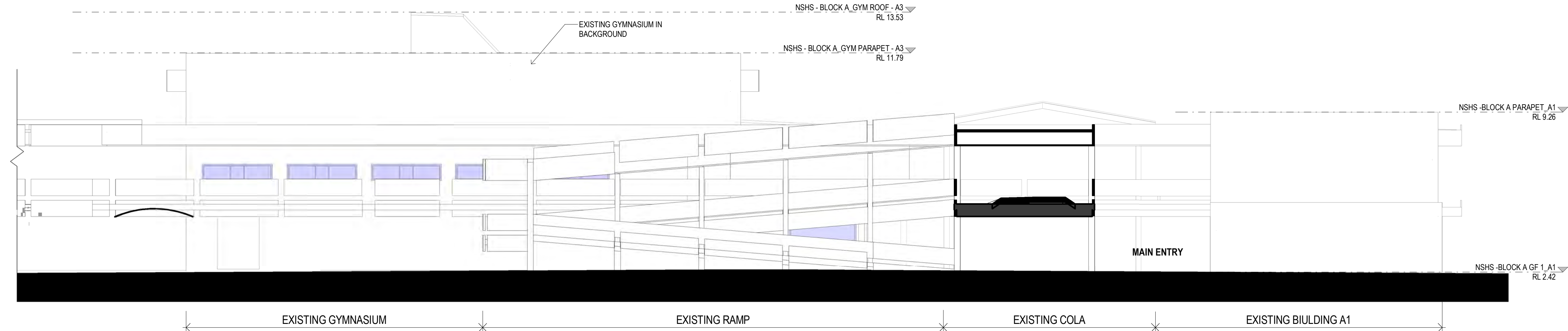
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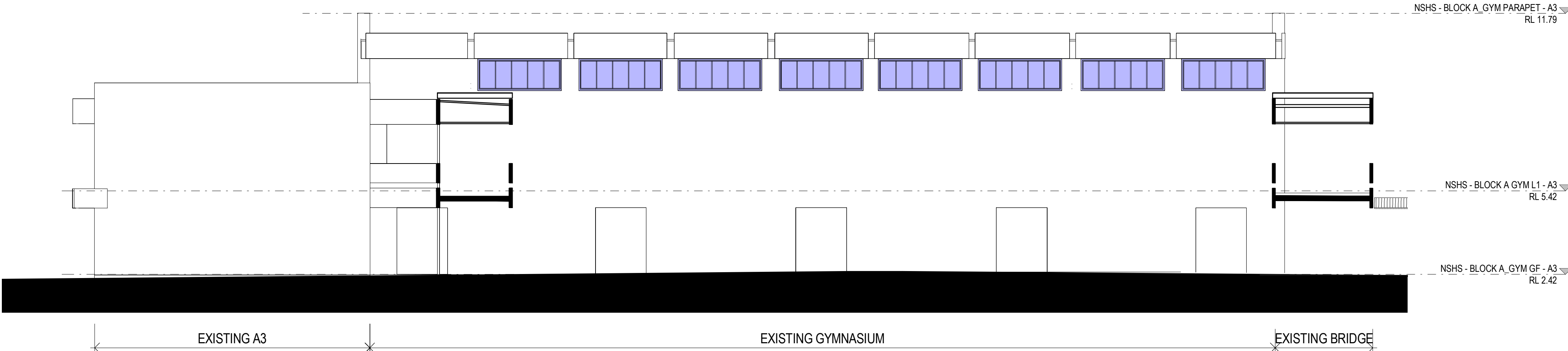
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No	DATE	REVISIONS	BY
1	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	



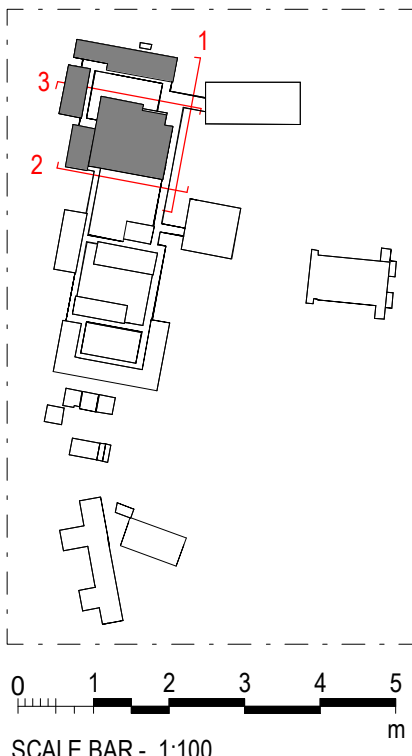
1 EXISTING EAST ELEVATION - GYMNASIUM



2 EXISTING SOUTH ELEVATION - GYM



3 EXISTING NORTH ELEVATION - GYM



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NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

TITLE

EXISTING ELEVATION - BLOCK A3

DRAWING NUMBER	REVISION
AR-H-3005	A

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

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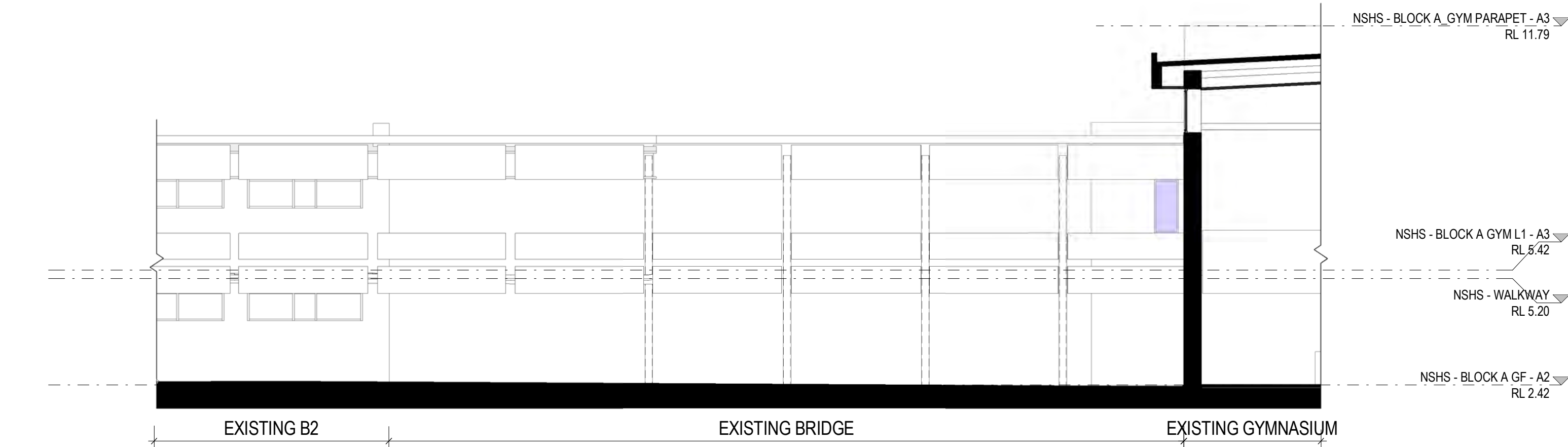
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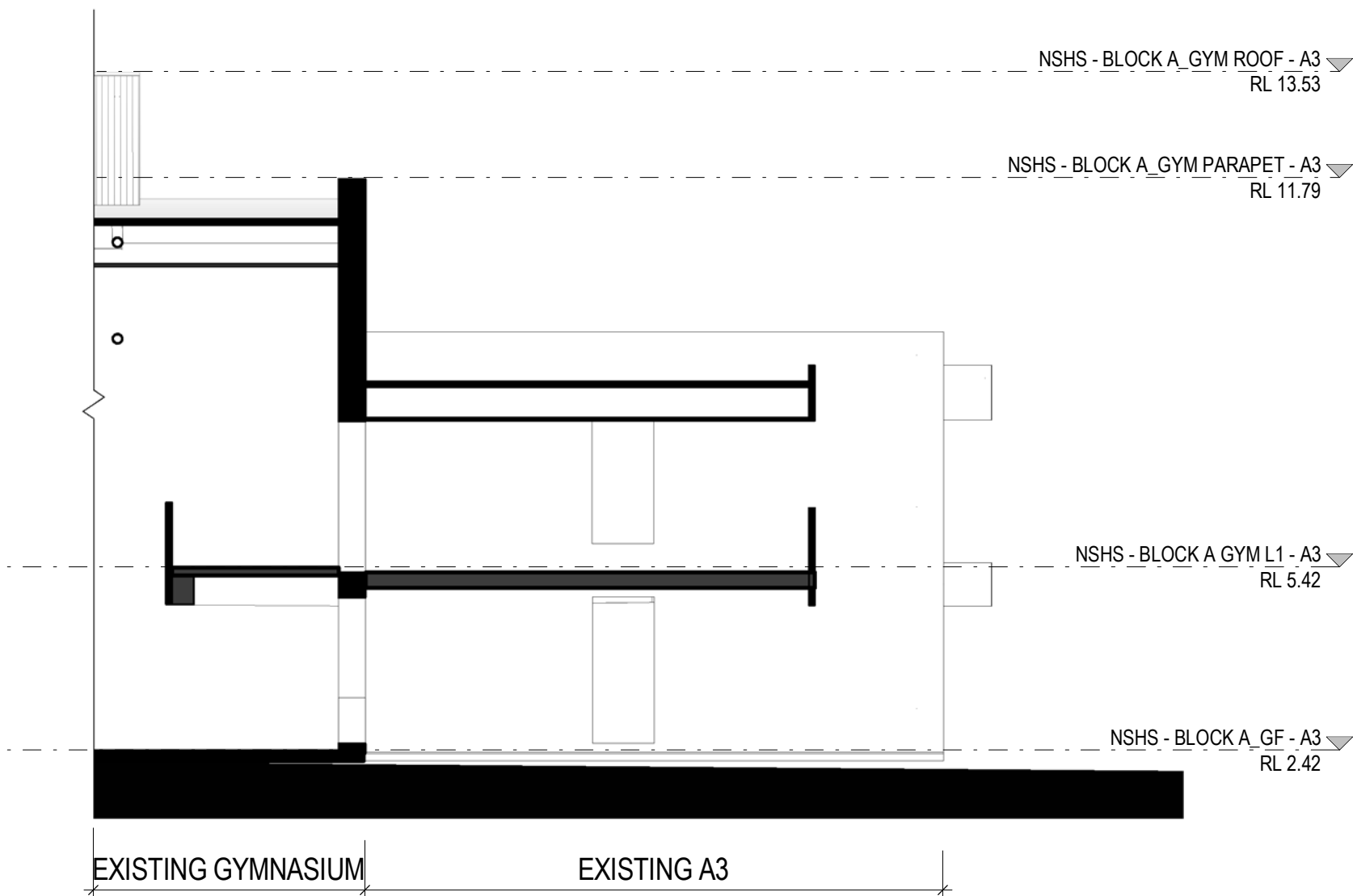
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1	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	



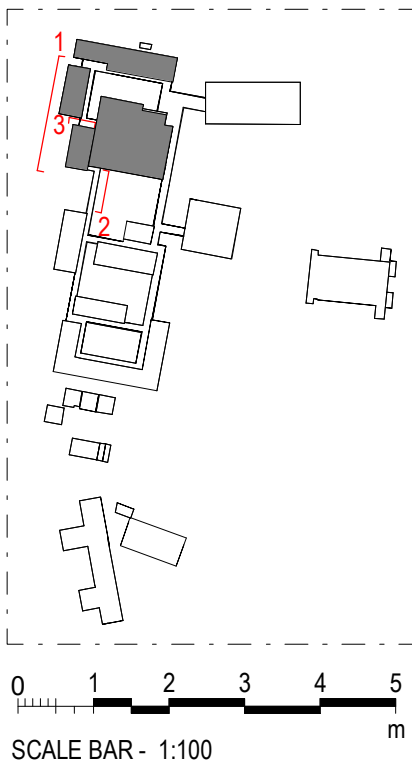
1 EXISTING WEST ELEVATION- BLOCK A2 AND A3



2 EXISTING EAST ELEVATION - BLOCK A3



3 EXISTING NORTH ELEVATION - BLOCK A3



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NARRABEEN SPORTS HIGH SCHOOL

DETAILS	JJ	SCALE
DRAWN	RF	
CHECKED	CM	
APPROVED		1 : 100 @ A1

TITLE
EXISTING ELEVATION - BLOCK A3

DRAWING NUMBER	REVISION
AR-H-3006	A

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

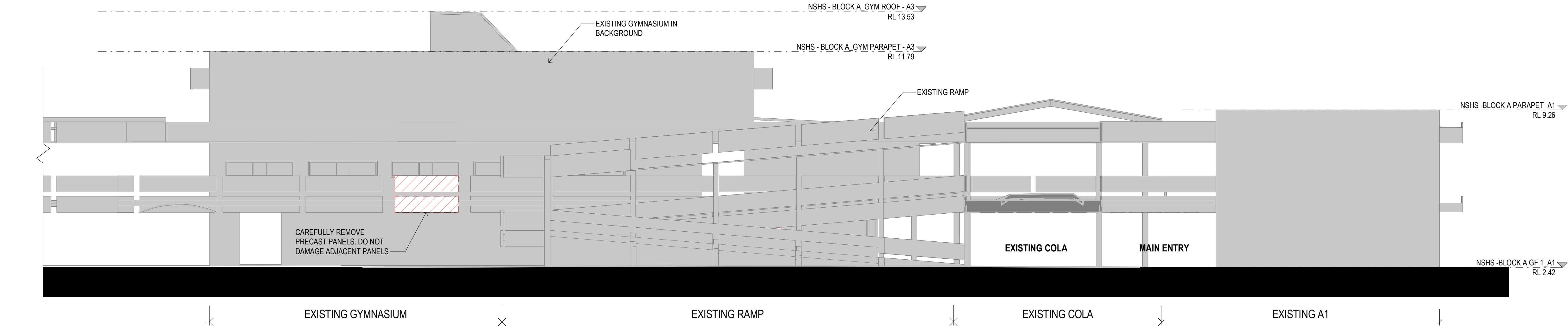
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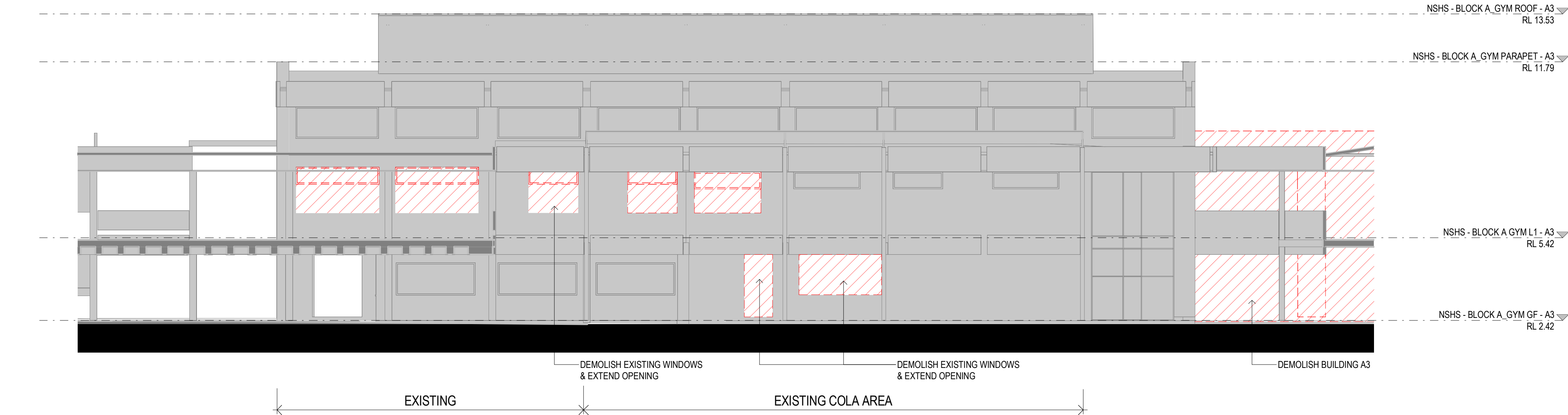
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1	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	



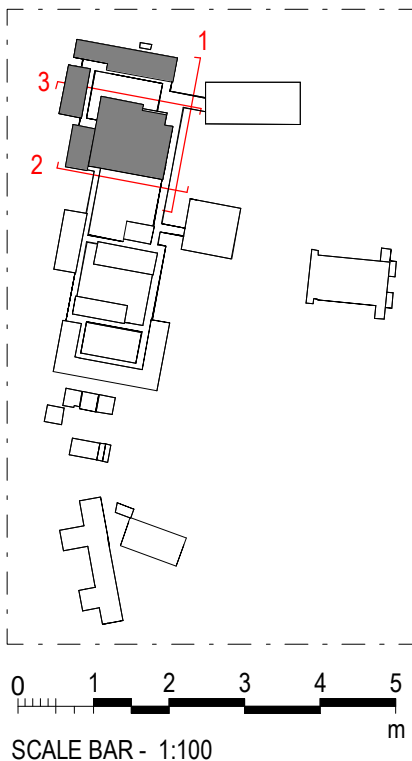
1 DEMOLITION EAST ELEVATION - GYMNASIUM



2 DEMOLITION SOUTH ELEVATION - GYM



3 DEMOLITION NORTH ELEVATION - GYM



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NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

TITLE

DEMOLITION ELEVATION - BLOCK A3

DRAWING NUMBER

AR-H-3007

REVISION

A

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

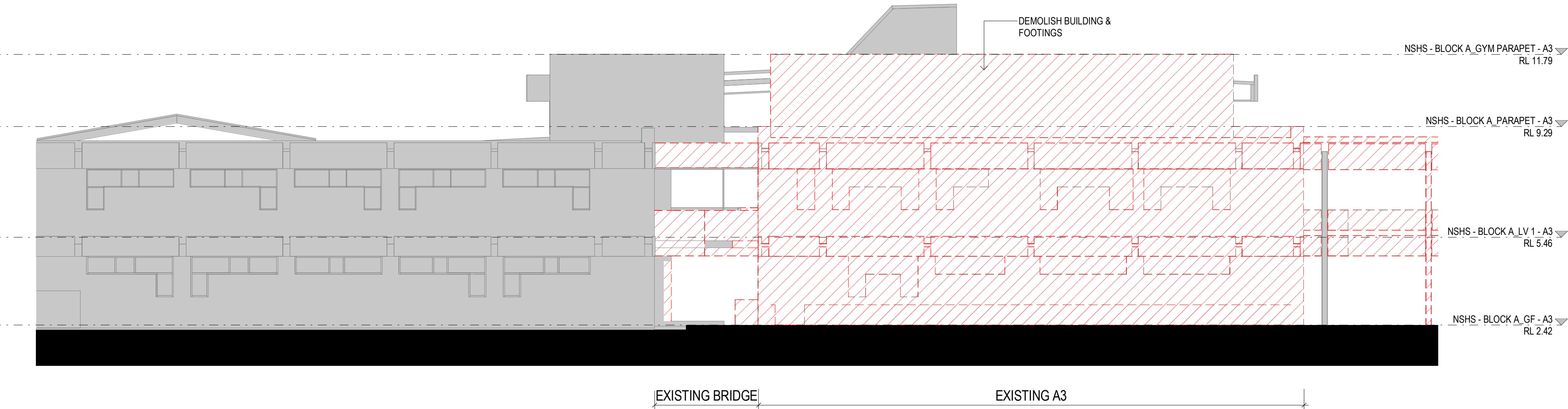
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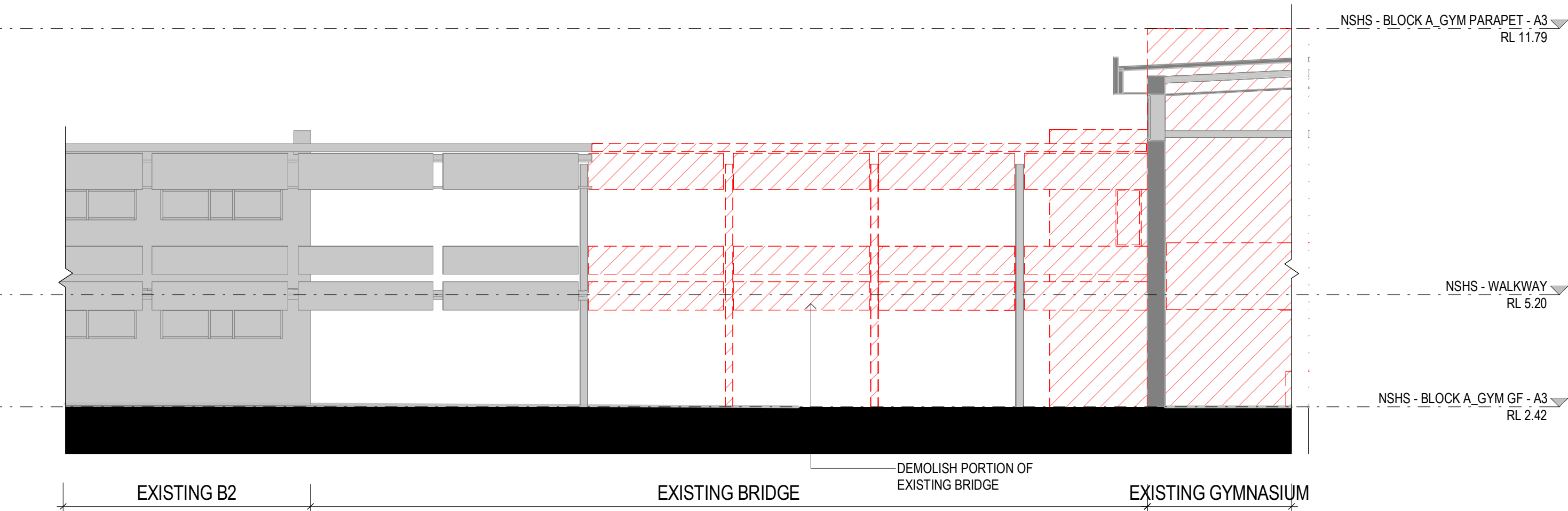
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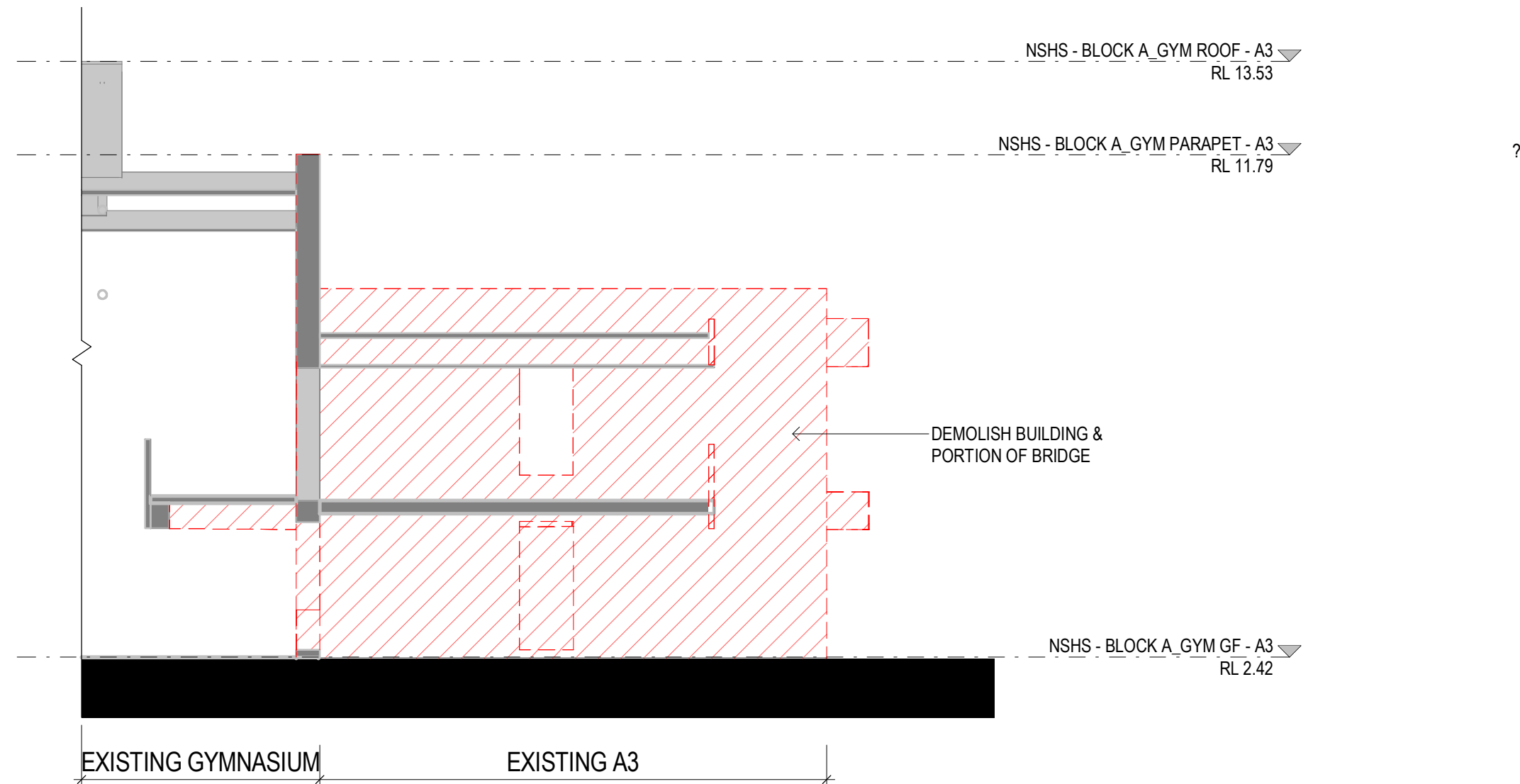
No	DATE	REVISIONS	BY
1	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	



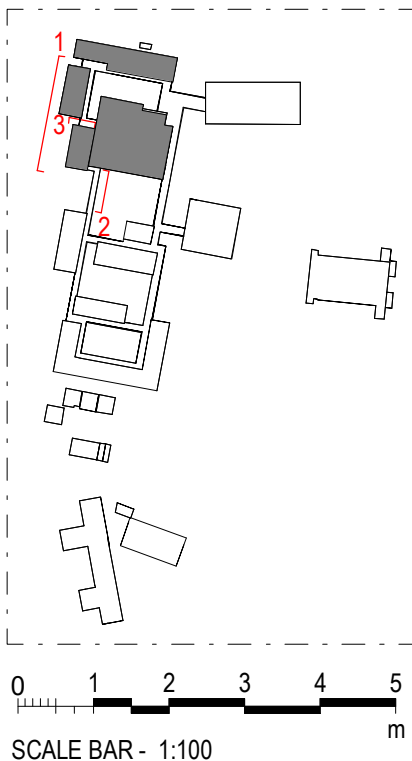
1 DEMOLITION WEST ELEVATION- BLOCK A2 AND A3



2 DEMOLITION EAST ELEVATION - BLOCK A3



3 DEMOLITION NORTH ELEVATION - BLOCK A3



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PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS
DRAWN JJ
CHECKED RF
APPROVED CM
SCALE
1 : 100 @ A1

TITLE
DEMOLITION ELEVATION - BLOCK A3

DRAWING NUMBER
AR-H-3008
REVISION
A

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

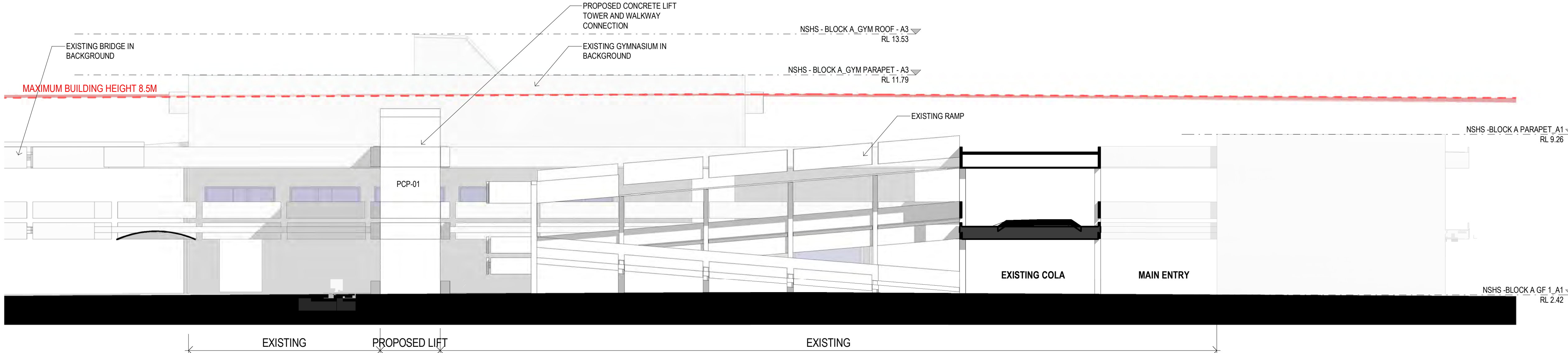
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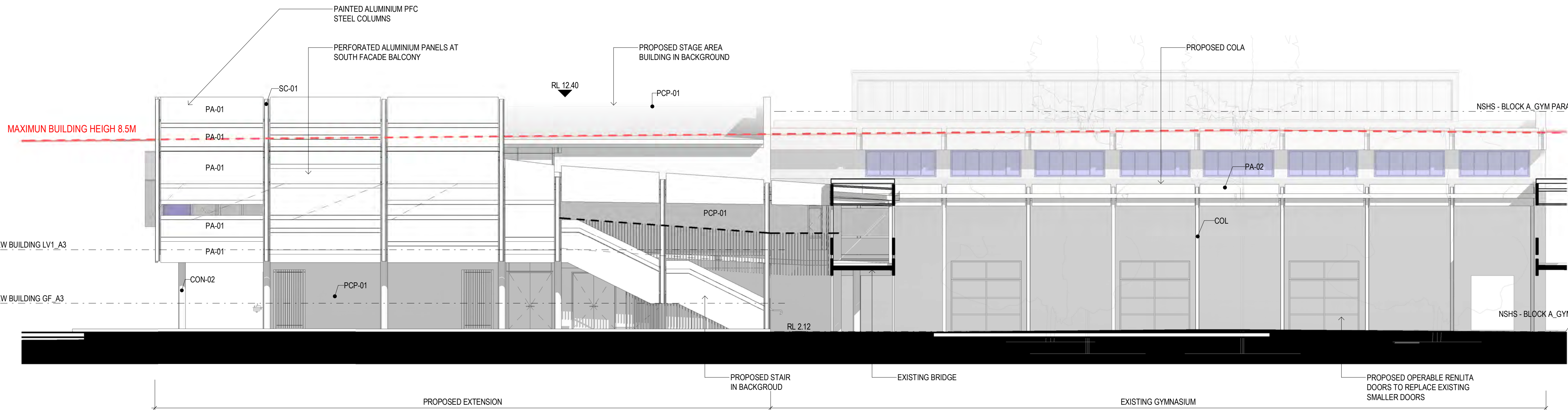
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No	DATE	REVISIONS	BY
1	26/05/2022	SCHEMATIC DESIGN - DRAFT	JO
2	08/06/2022	PRE-DA - DRAFT	JO
3	29/06/2022	FOR INFORMATION	
4	12/07/2022	FOR INFORMATION	RF
5	02/08/2022	FOR CONSULTANT	RF
6	03/08/2022	FOR INFORMATION	RF
7	03/09/2022	FOR REVIEW	TJF
8	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	



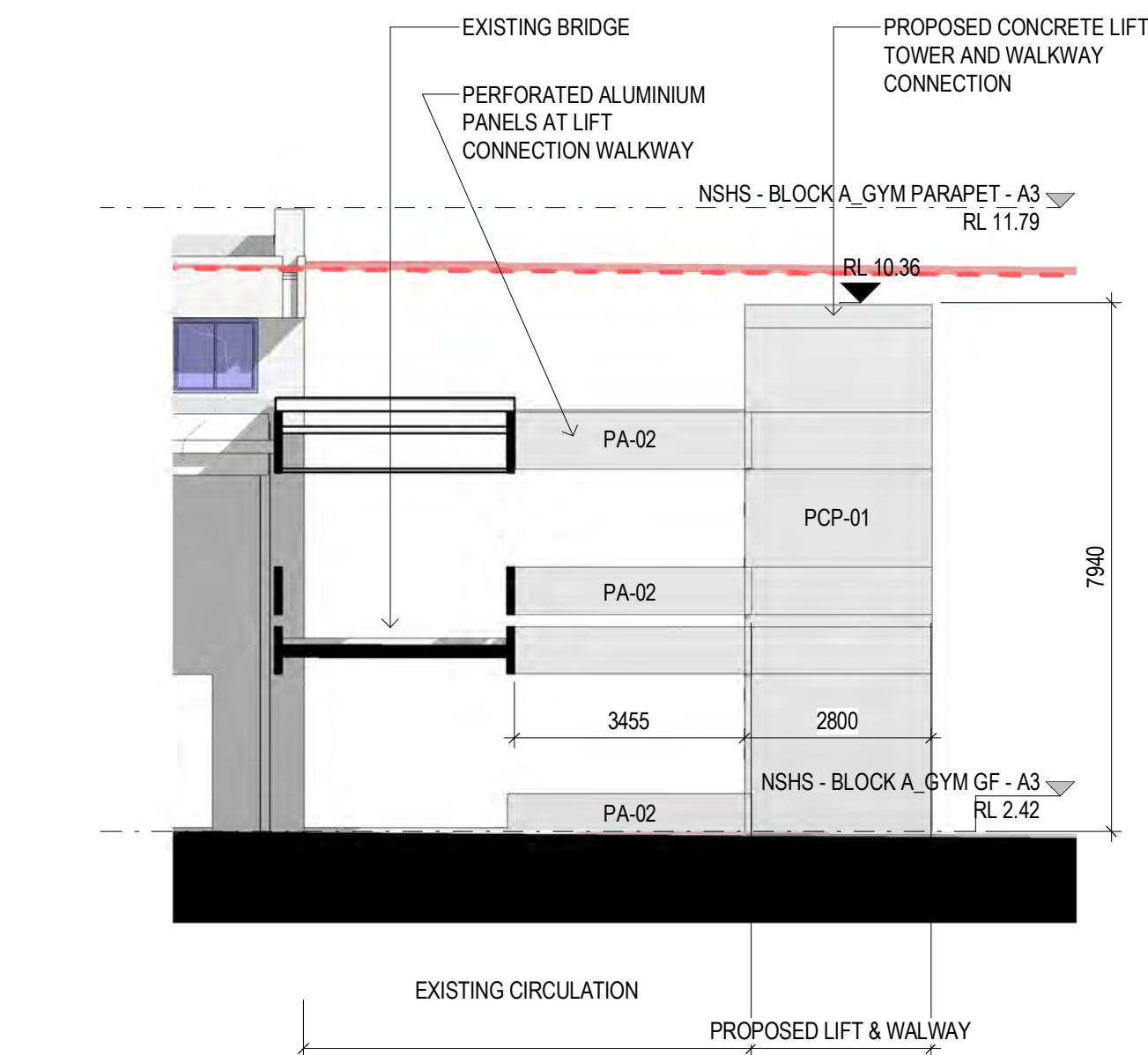
2 EAST ELEVATION - GYMNASIUM AND PROPOSED LIFT

SMT-AR-H-095 SCALE 1:100



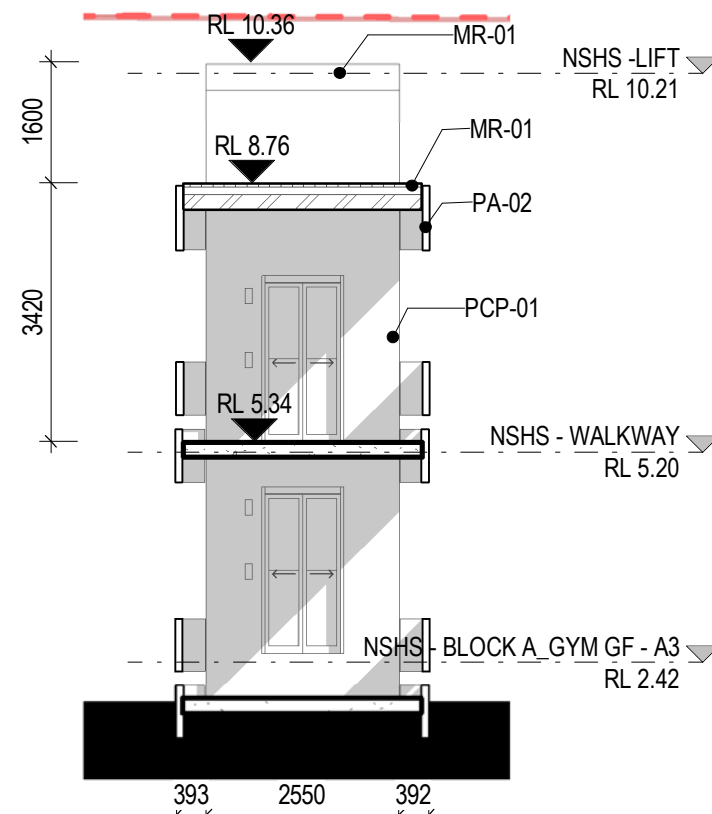
1 SOUTH ELEVATION - PROPOSED EXTENSION AND GYMNASIUM

SMT-AR-H-095 SCALE 1:100



3 SOUTH ELEVATION - PROPOSED EXTENSION AND GYMNASIUM

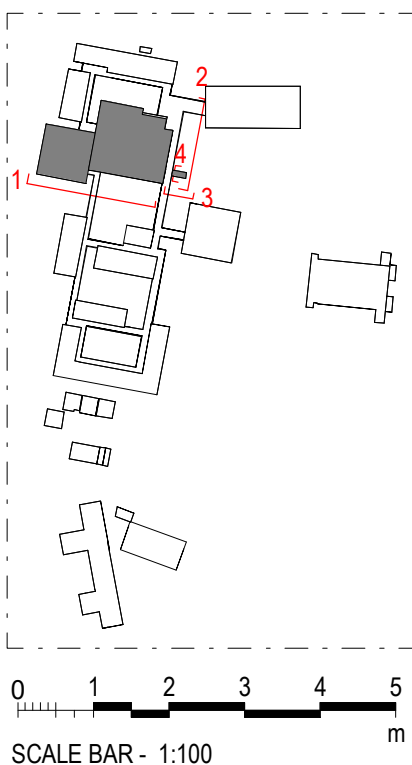
SMT-AR-H-095 SCALE 1:100



4 WEST ELEVATION - PROPOSED LIFT

SMT-AR-H-095 SCALE 1:100

KEYNOTE LEGEND	
Key Value	Keynote Text
COL	
CON-02	CONCRETE COLUMN
MR-01	METAL ROOF
PA-01	PERFORATED ALUMINIUM
PA-02	PAINTED ALUMINIUM PANEL
PCP-01	PRECAST CONCRETE PANEL
SC-01	STEEL COLUMN



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CLIENT

NSW GOVERNMENT | **Education**

PROJECT

NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	Approver	1:100 @ A1

TITLE

PROPOSED ELEVATIONS- BLOCK A- SOUTH AND EAST

DRAWING NUMBER

AR-H-3010

REVISION

A

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

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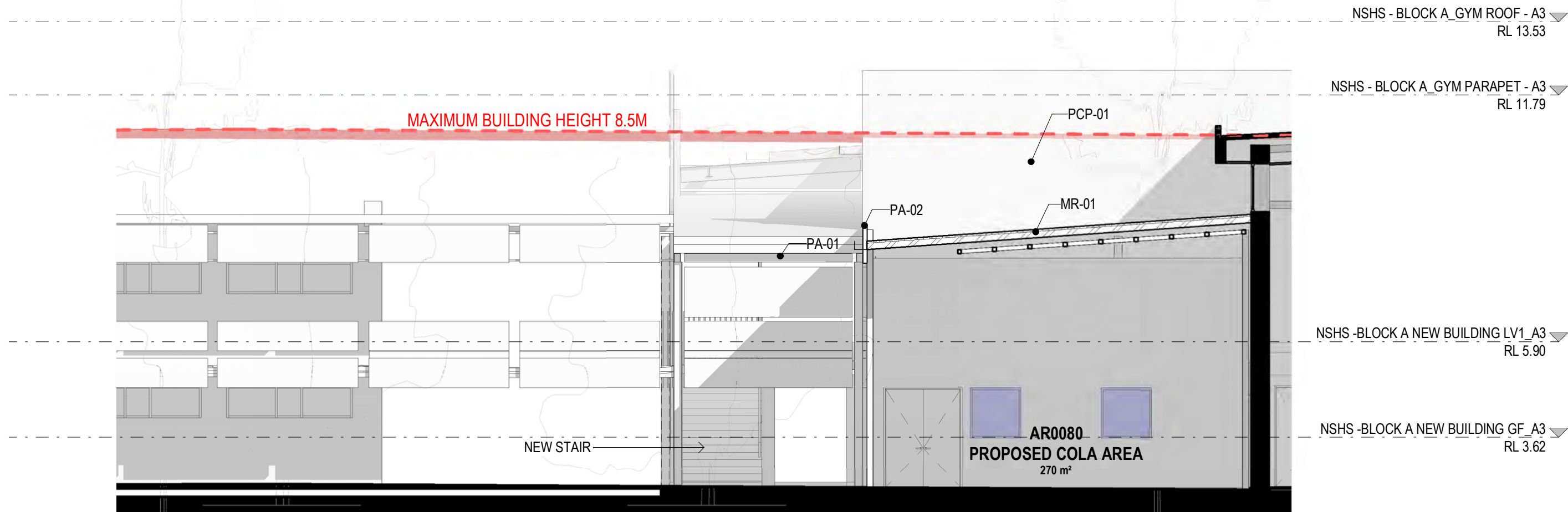
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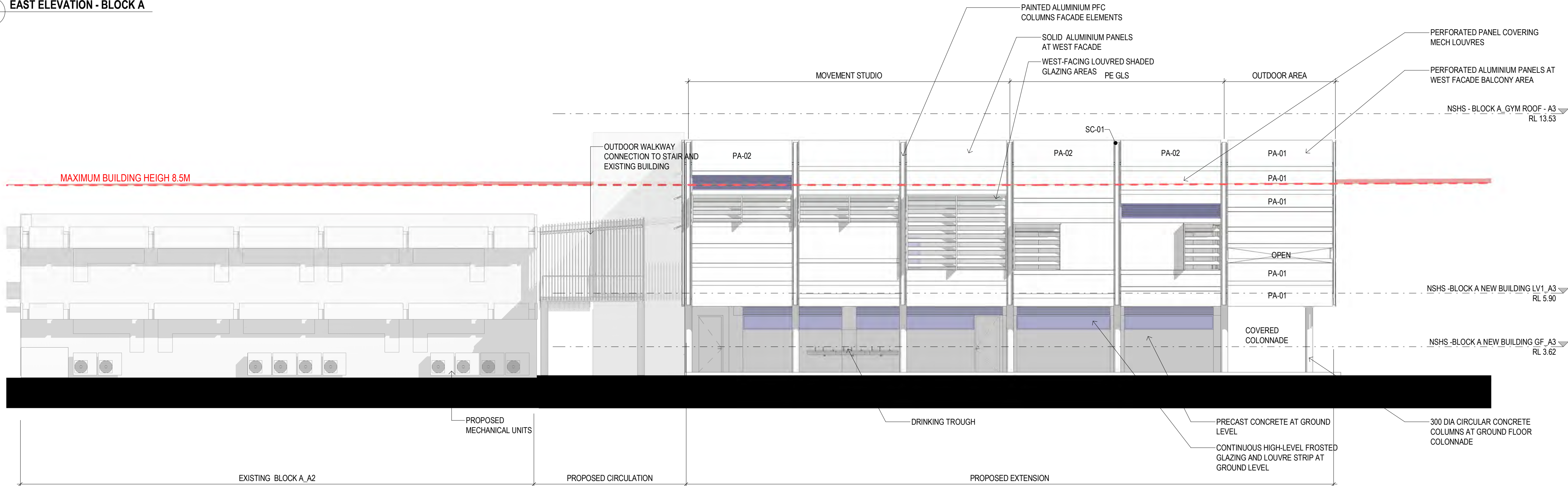
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No	DATE	REVISIONS	BY
1	03/09/2022	FOR REVIEW	TJF
2	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

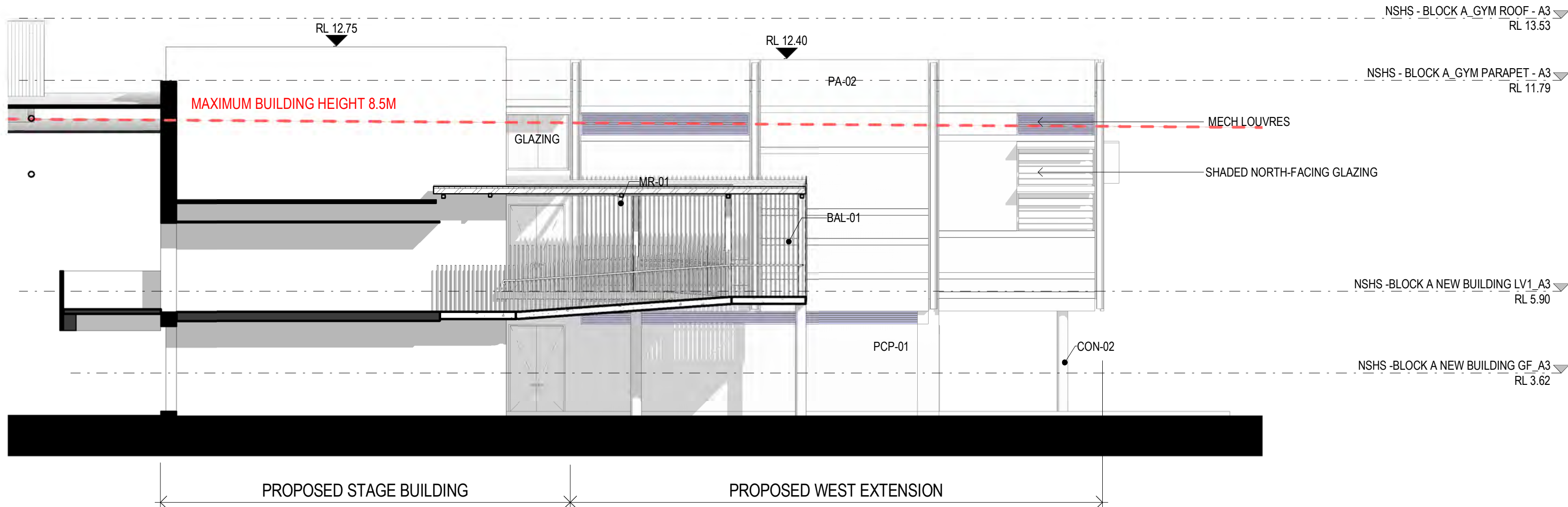
1 EAST ELEVATION - BLOCK A



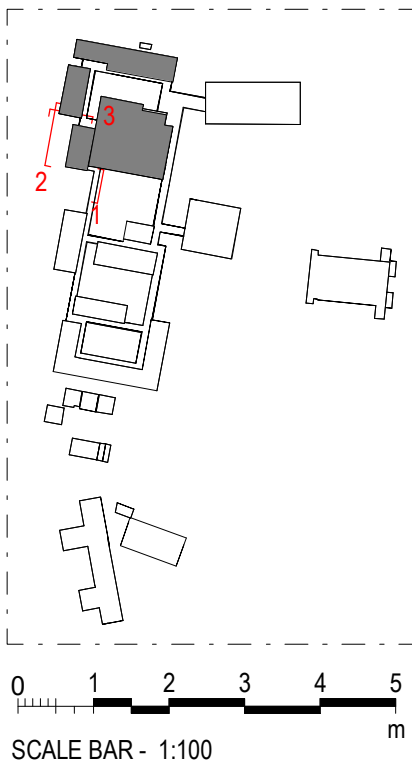
2 WEST ELEVATION- BLOCK A2 AND PROPOSED EXTENSION



3 NORTH ELEVATION - PROPOSED EXTENSION



KEYNOTE LEGEND	
Key Value	Keynote Text
BAL-01	BALUSTRADE - GALVANISED FINISH
CON-02	CONCRETE COLUMN
MR-01	METAL ROOF
PA-01	PERFORATED ALUMINIUM
PA-02	PAINTED ALUMINIUM PANEL
PCP-01	PRECAST CONCRETE PANEL
SC-01	STEEL COLUMN



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NSW GOVERNMENT | **Education**

PROJECT
NARRABEEN EDUCATION PRECINCT
NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS
DRAWN V.B., JJ
CHECKED RF
APPROVED CM
SCALE
1:100 @ A1

TITLE
PROPOSED ELEVATIONS- BLOCK A- EAST, NORTH AND WEST

DRAWING NUMBER
AR-H-3011
REVISION
A

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:	
0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

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No	DATE	REVISIONS	BY
1	03/08/2022	FOR INFORMATION	RF
2	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	

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Education

PROJECT

NARRABEEN EDUCATION PRECINCT

NAMONA ST, NORTH NARRABEEN NSW 2101

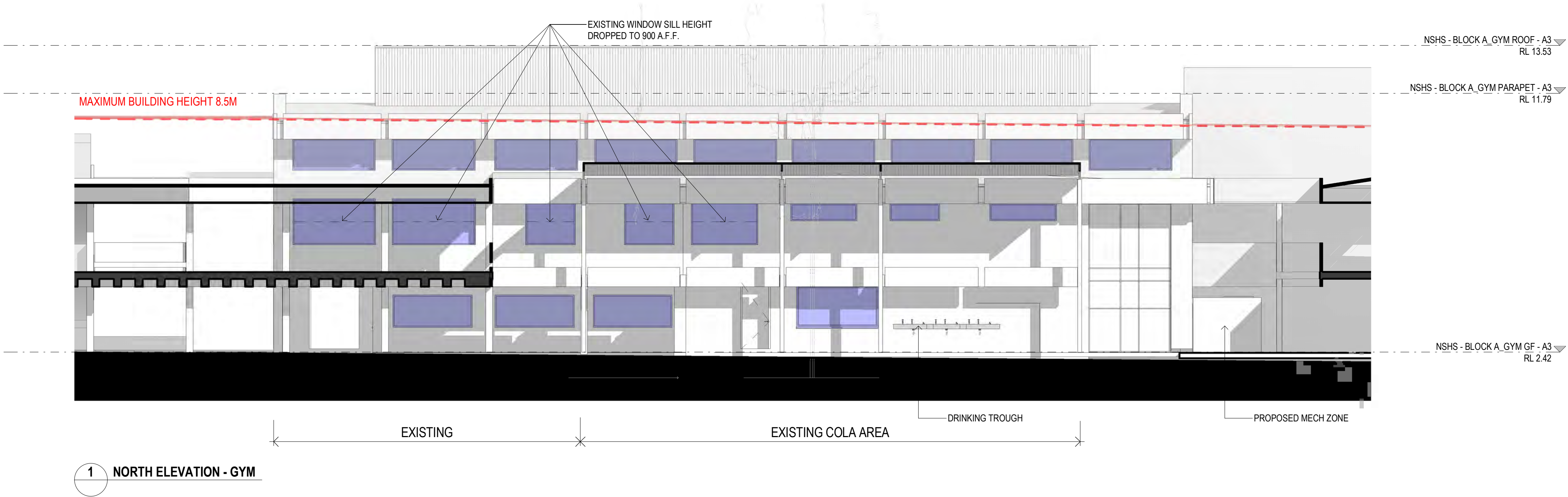
NARRABEEN SPORTS HIGH SCHOOL

DETAILS		
DRAWN	JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

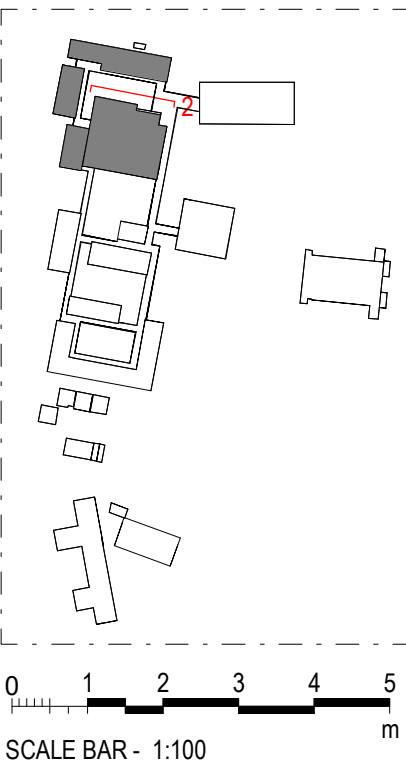
TITLE

PROPOSED ELEVATIONS- BLOCK A_GYM_NORTH ELEVATION

DRAWING NUMBER	REVISION
AR-H-3012	A



KEYNOTE LEGEND	
Key Value	Keynote Text



3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:

0000	GENERAL & SITE INFORMATION
1000	GENERAL ARRANGEMENT PLANS
2000	GA RCPS
3000	GA SECTIONS & ELEVATIONS
4000	REFERENCE PLANS
5000	STRUCTURAL SET-OUT
6000	VERTICAL CIRCULATION
7000	INTERIOR DESIGN DETAILS
8000	EXTERIOR & FACADE DETAILS
9000	DRAWN SCHEDULES
9000	SCHEDULES & SPECIFICATIONS

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No	DATE	REVISIONS	BY
1	02/08/2022	FOR CONSULTANT	RF
2	03/08/2022	FOR INFORMATION	RF
3	09/09/2022	FOR INFORMATION	RF
	15/09/2022	ISSUE FOR DA	

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NAMONA ST, NORTH NARRABEEN NSW 2101
NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

TITLE

SECTIONS- BLOCK A

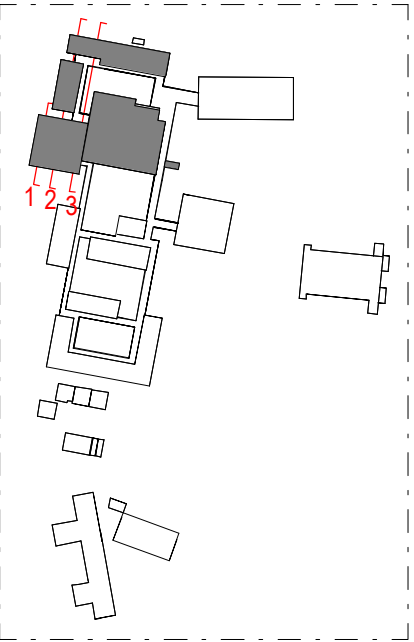
DRAWING NUMBER

AR-H-3041

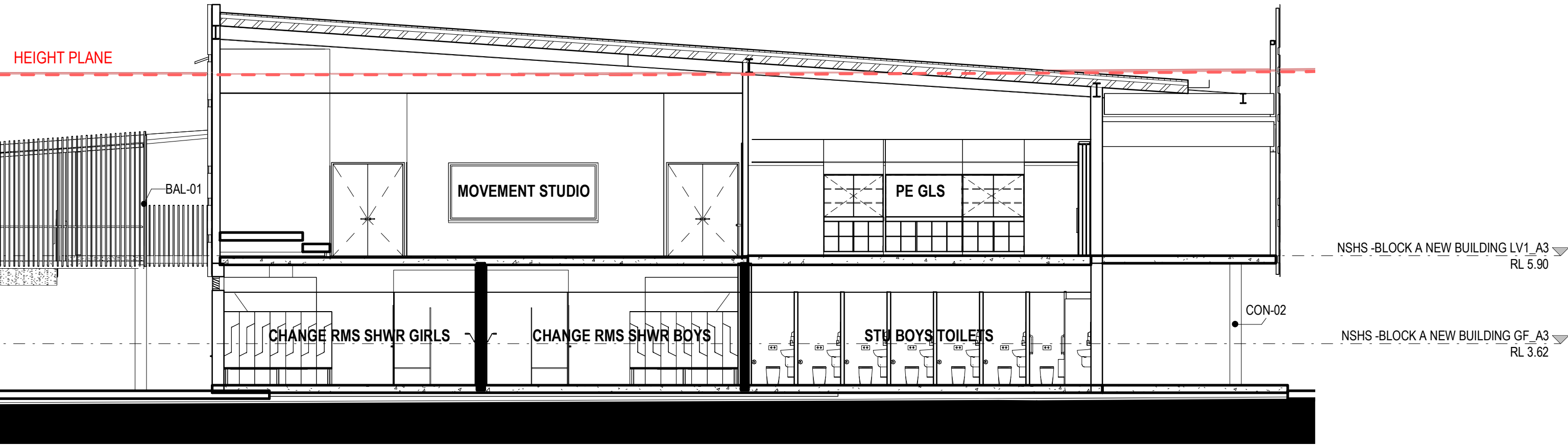
REVISION

A

KEYNOTE LEGEND	
Key Value	Keynote Text
BAL-01	BALUSTRADE - GALVANISED FINISH
CON-02	CONCRETE COLUMN
MR-01	METAL ROOF
P01	
PA-01	PERFORATED ALUMINIUM
PCP-01	PRECAST CONCRETE PANEL

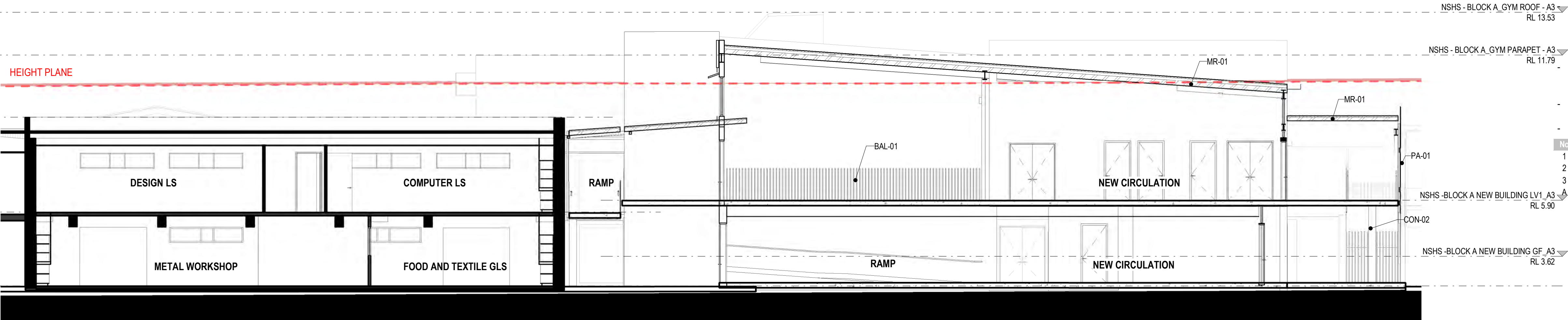


HEIGHT PLANE



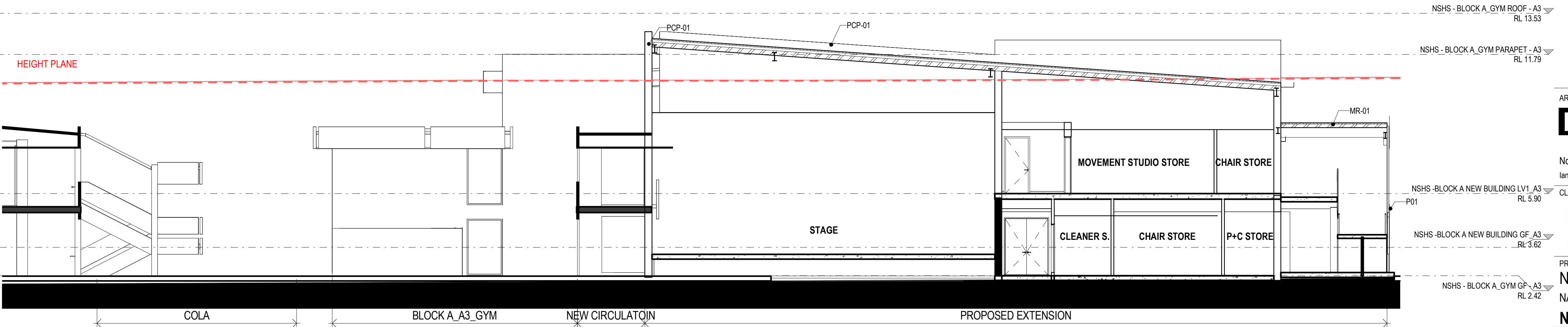
1 BLOCK A_NEW BUILDING_SECTION 1

HEIGHT PLANE



2 BLOCK A_NEW BUILDING_SECTION 2

HEIGHT PLANE



3 BLOCK A_NEW BUILDING_SECTION 3

0 1 2 3 4 5
SCALE BAR - 1:100 m

3000 - ELEVATIONS & SECTIONS

ARCHITECTURE:		
0000	GENERAL & SITE INFORMATION	
1000	GENERAL ARRANGEMENT PLANS	
2000	GA RCPS	
3000	GA SECTIONS & ELEVATIONS	
4000	REFERENCE PLANS	
5000	STRUCTURAL SET-OUT	
6000	VERTICAL CIRCULATION	
7000	INTERIOR DESIGN DETAILS	
8000	EXTERIOR & FACADE DETAILS	
9000	DRAWN SCHEDULES	
9000	SCHEDULES & SPECIFICATIONS	

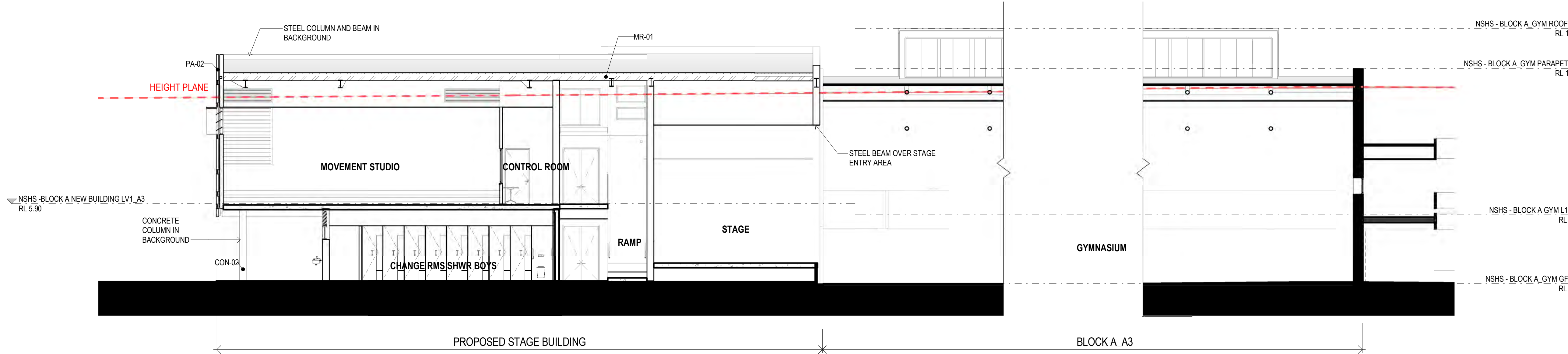
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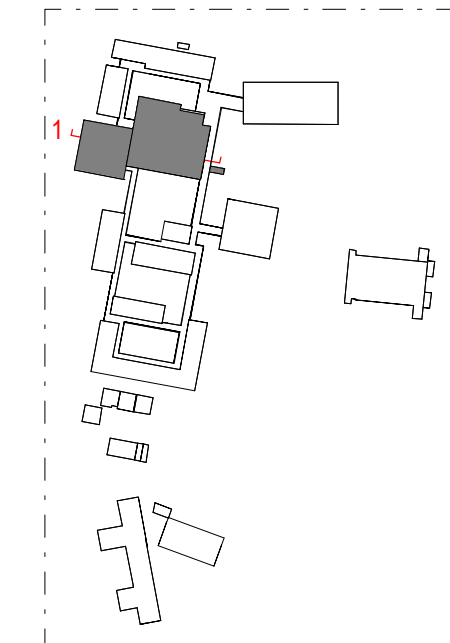
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1	09/09/2022	FOR INFORMATION	RF
A	15/09/2022	ISSUE FOR DA	



2 BLOCK A_NEW BUILDING + GYM_PROPOSED SECTION 4

KEYNOTE LEGEND	
Key Value	Keynote Text
CON-02	CONCRETE COLUMN
MR-01	METAL ROOF
PA-02	PAINTED ALUMINIUM PANEL



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Nominated Architects

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NARRABEEN SPORTS HIGH SCHOOL

DETAILS

DRAWN	VB, JJ	SCALE
CHECKED	RF	
APPROVED	CM	1 : 100 @ A1

TITLE

SECTIONS- BLOCK A

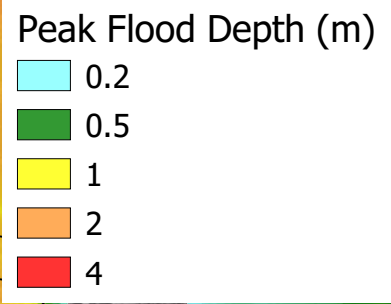
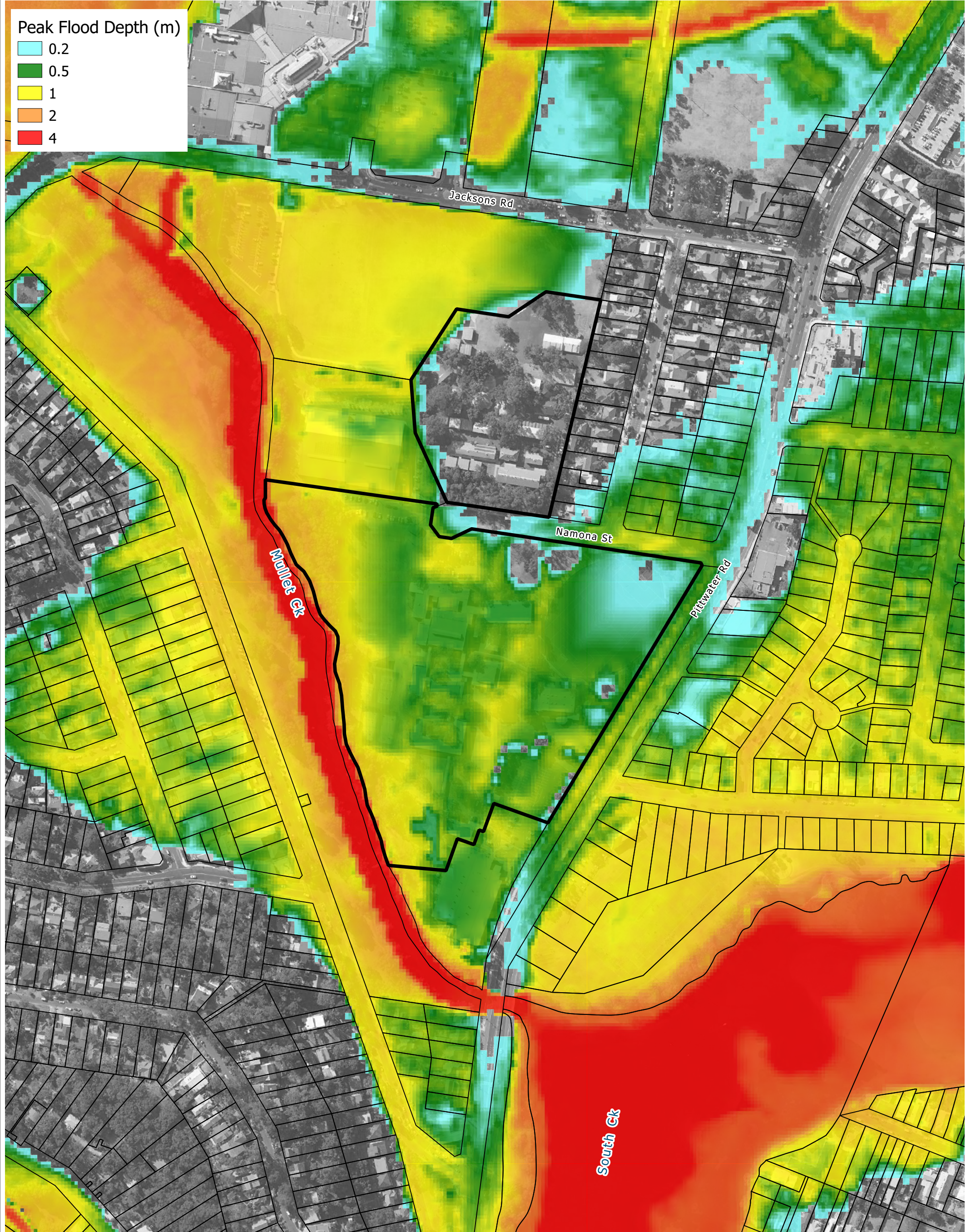
DRAWING NUMBER

AR-H-3042

REVISION

A

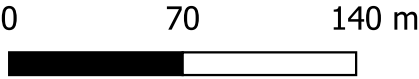
Annex C Flood Mapping for Existing Conditions



- Legend**
- Site Boundary
 - Cadastral Boundary

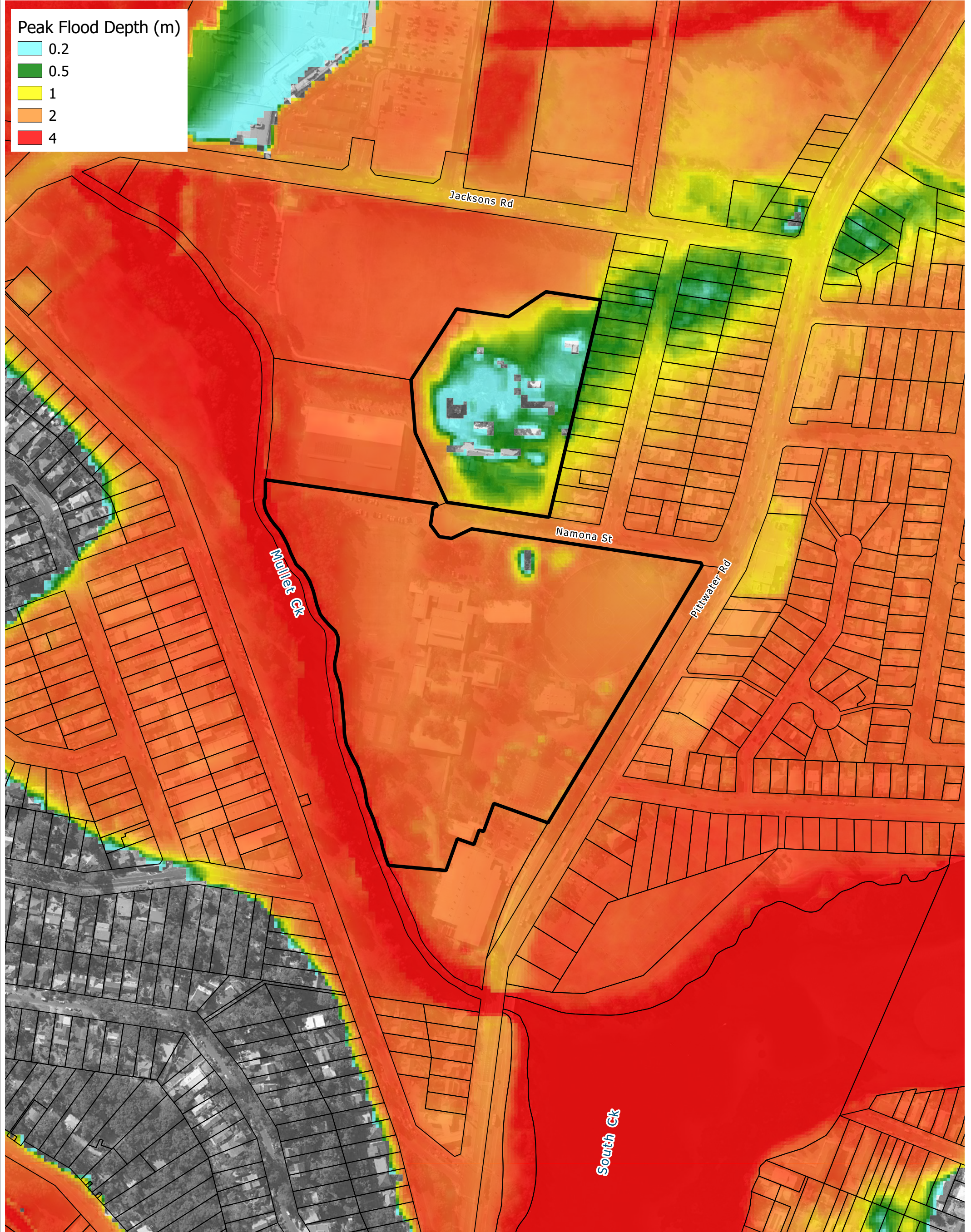
Title:
Peak Flood Depth - Existing Scenario - 1% AEP Flood

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Drawing: **C-01** Rev: **A**





Peak Flood Depth (m)

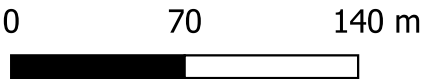
0.2
0.5
1
2
4

Legend

Site Boundary
Cadastral Boundary

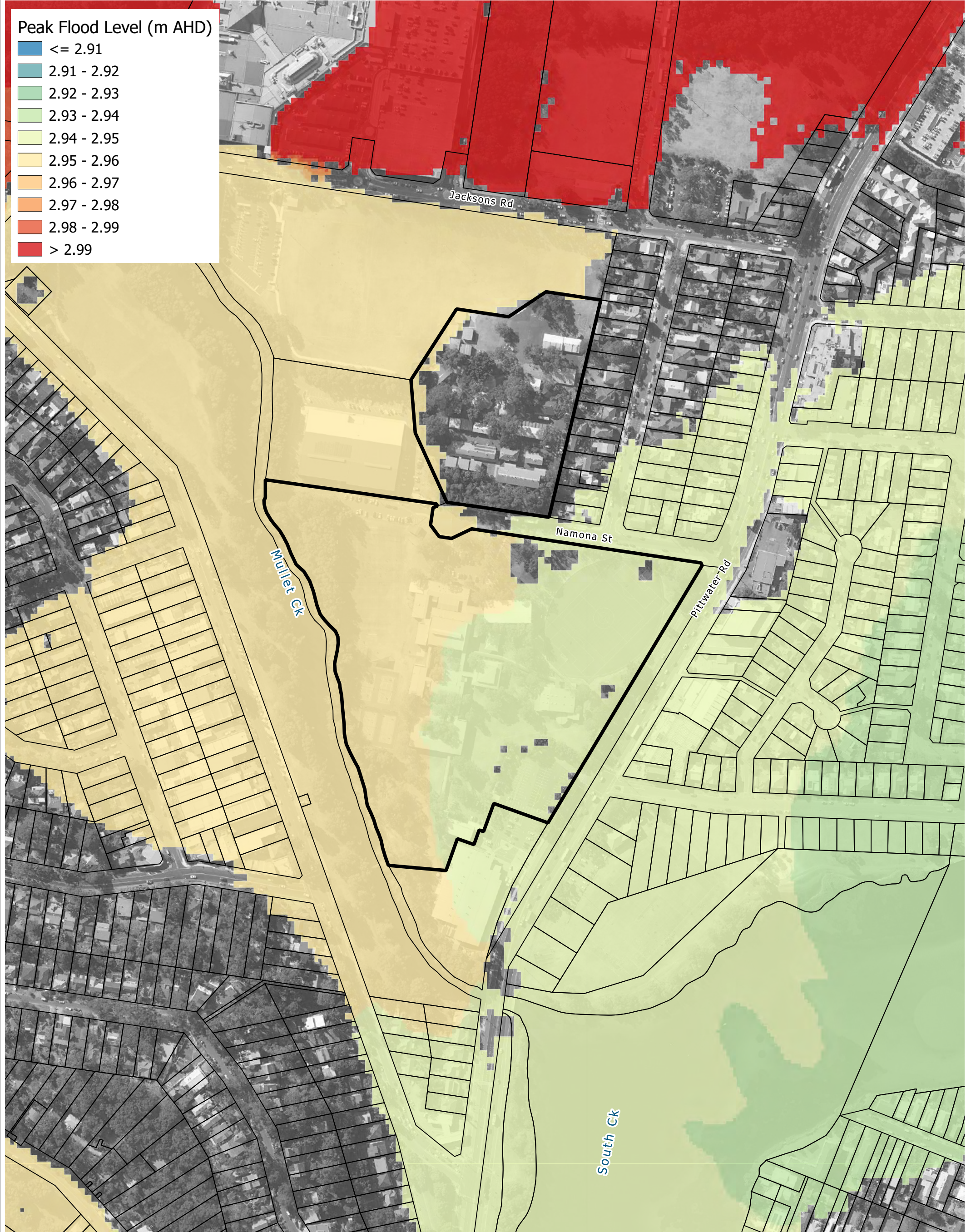
Title:
Peak Flood Depth - Existing Scenario - PMF

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Drawing: C-02	Rev: A
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Peak Flood Level (m AHD)

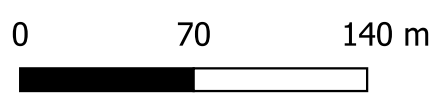
Blue	<= 2.91
Light Blue	2.91 - 2.92
Light Green	2.92 - 2.93
Light Yellow	2.93 - 2.94
Yellow	2.94 - 2.95
Orange	2.95 - 2.96
Dark Orange	2.96 - 2.97
Red-Orange	2.97 - 2.98
Red	2.98 - 2.99
Dark Red	> 2.99

Legend

- Site Boundary
- Cadastral Boundary

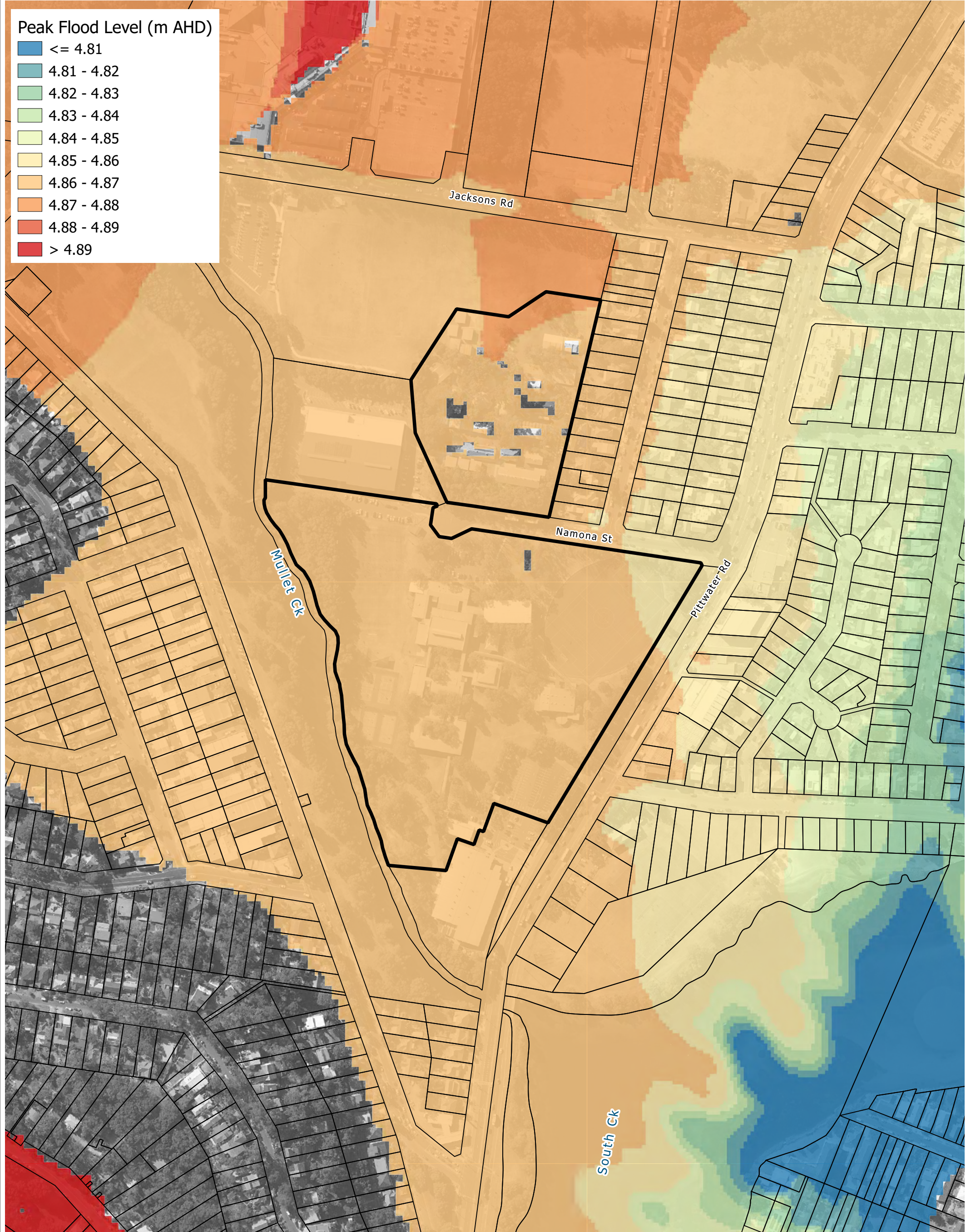
Title:
Peak Flood Level - Existing Scenario - 1% AEP Flood

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Drawing: C-03	Rev: A
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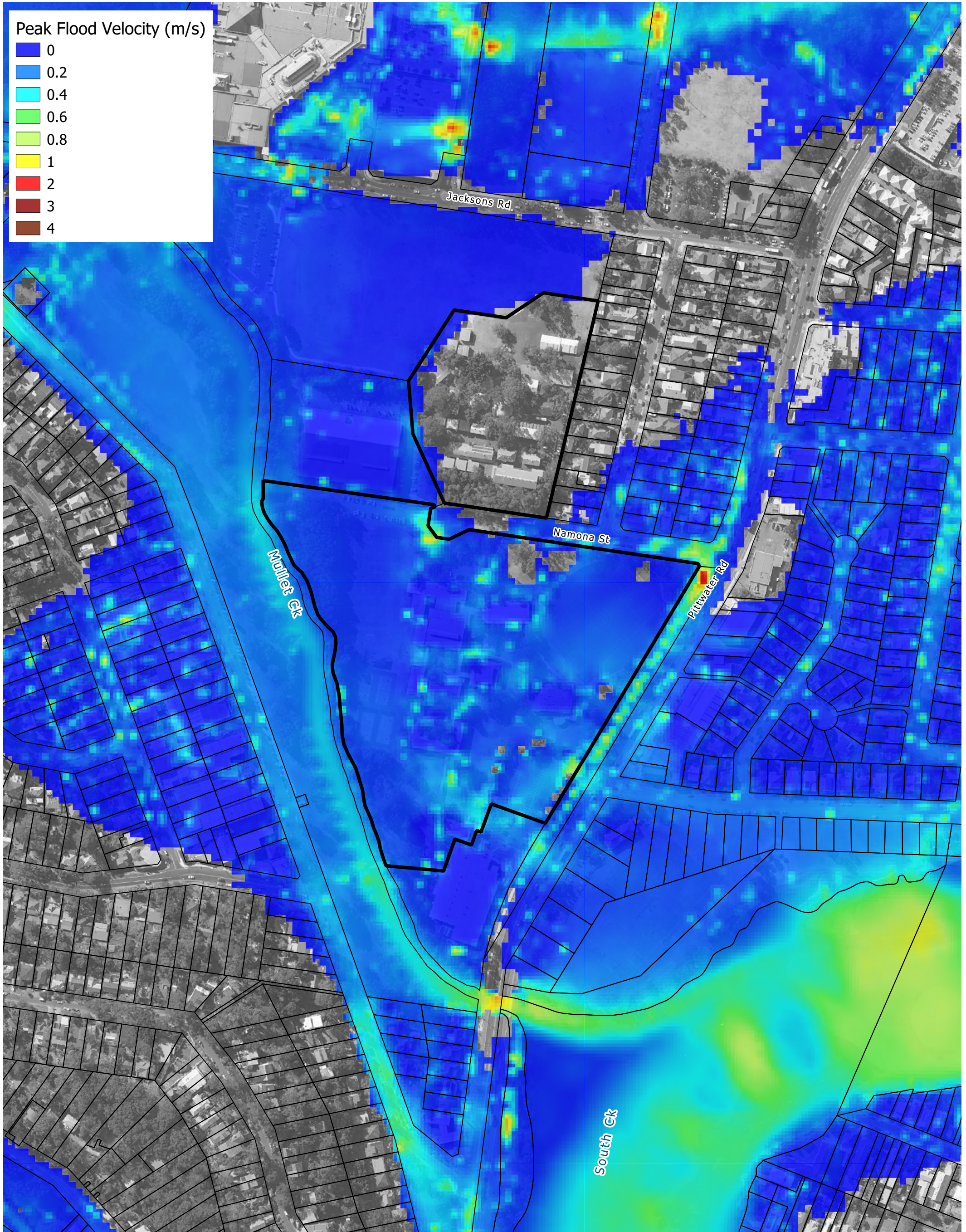




Peak Flood Level (m AHD)

Blue	<= 4.81
Light Blue	4.81 - 4.82
Light Green	4.82 - 4.83
Light Yellow	4.83 - 4.84
Yellow	4.84 - 4.85
Orange	4.85 - 4.86
Dark Orange	4.86 - 4.87
Red-Orange	4.87 - 4.88
Red	4.88 - 4.89
Dark Red	> 4.89

Legend <div><div></div> Site Boundary</div> <div><div></div> Cadastral Boundary</div>	Title: Peak Flood Level - Existing Scenario - PMF		Drawing: C-04	Rev: A
	<small>BMT endeavours to ensure that the information provided in this map is correct at the time of publication. BMT does not warrant, guarantee or make representations regarding the currency and accuracy of information contained in this map.</small>			
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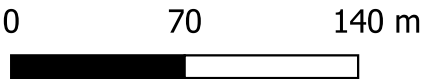


Legend

- Site Boundary
- Cadastral Boundary

Title:
Peak Flood Velocity - Existing Scenario - 1% AEP Flood

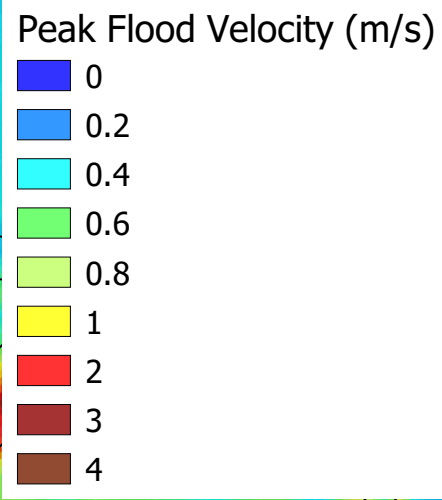
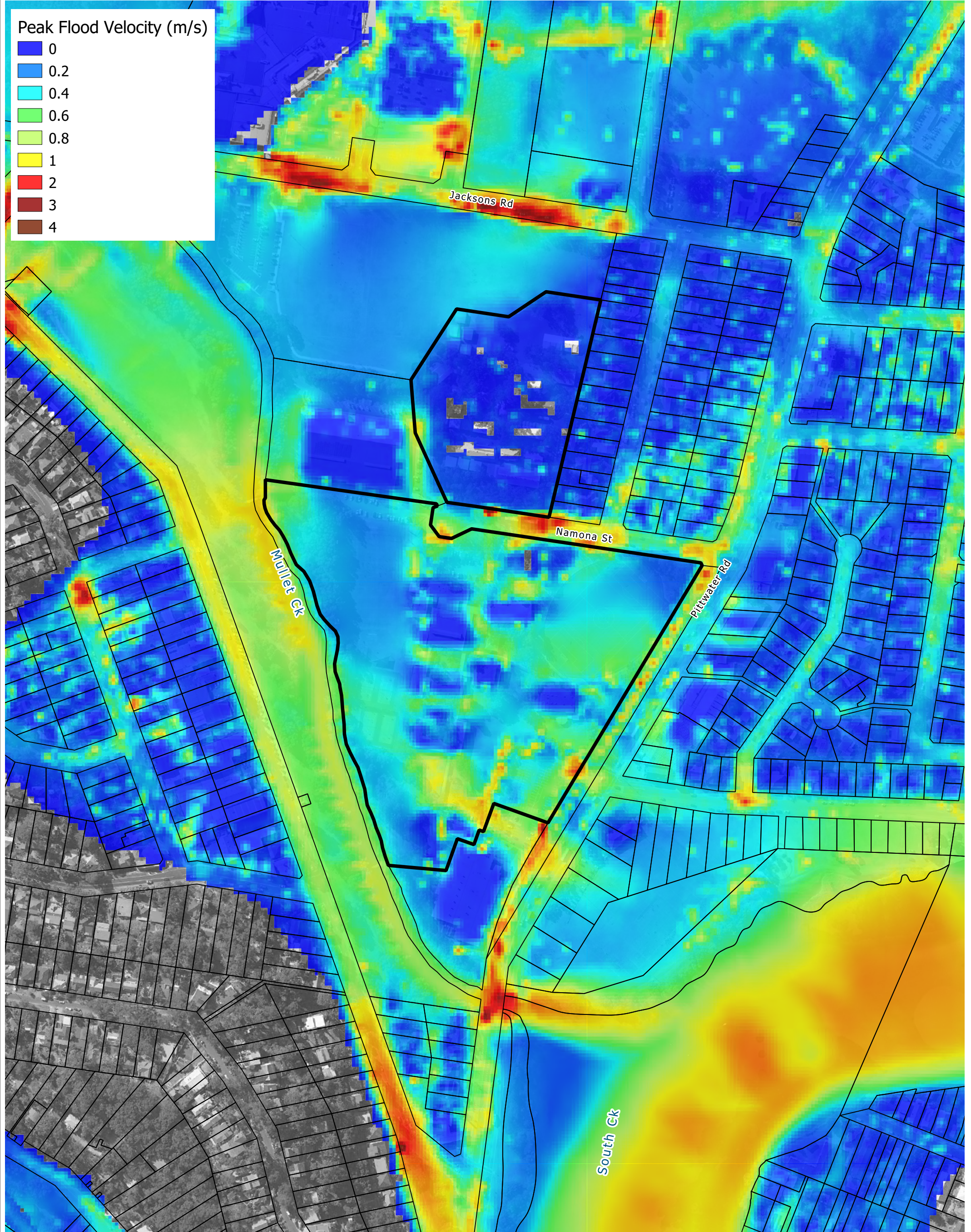
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Drawing:
C-05

Rev:
A





Legend

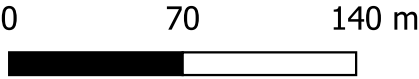
Site Boundary

Cadastral Boundary

Title:

Peak Flood Velocity - Existing Scenario - PMF

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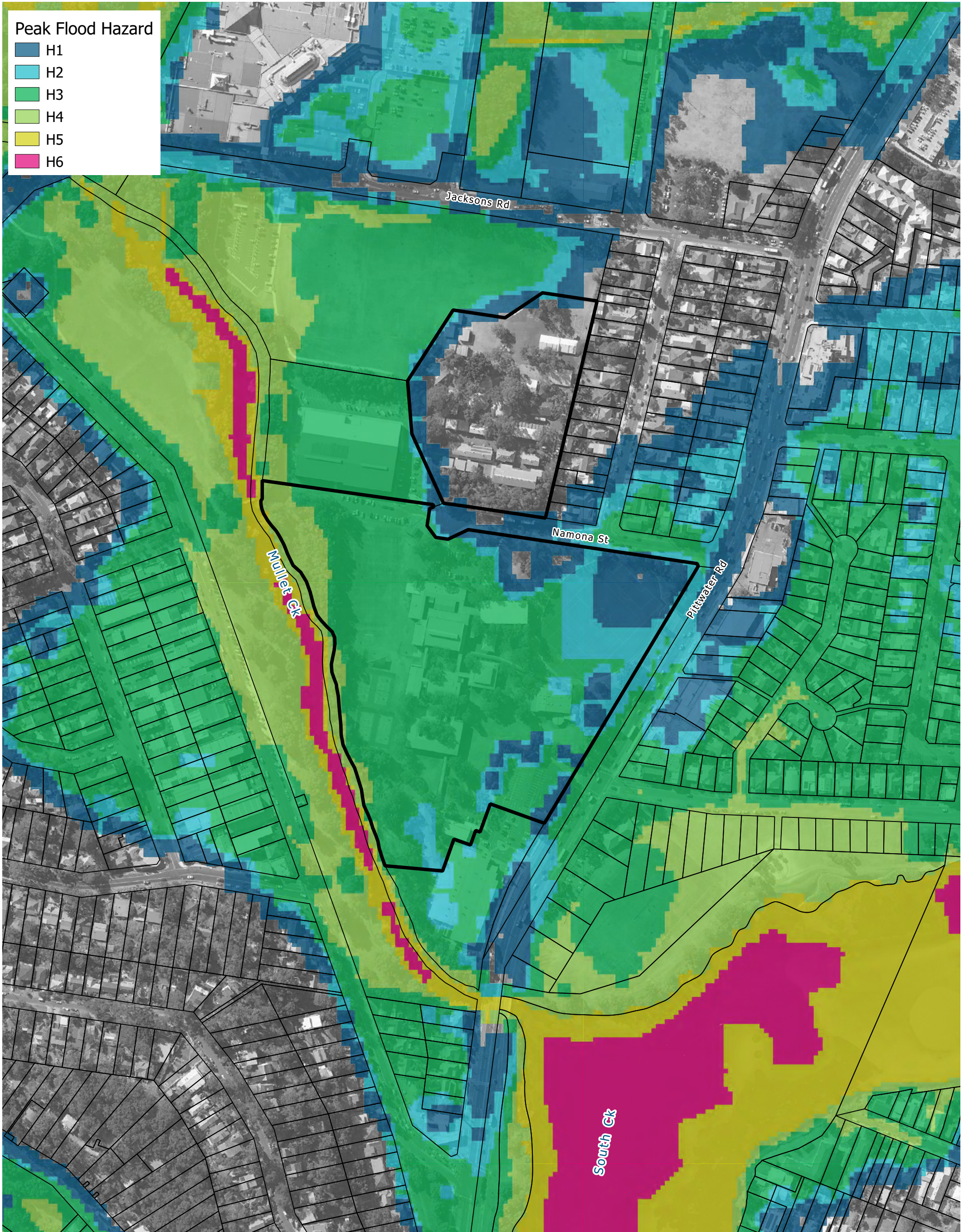
Drawing:

C-06



Rev:

A



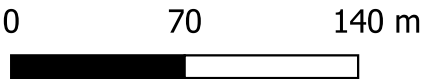


Legend

-  Site Boundary
-  Cadastral Boundary

Title:
Peak Flood Hazard - Existing Scenario - 1% AEP Flood

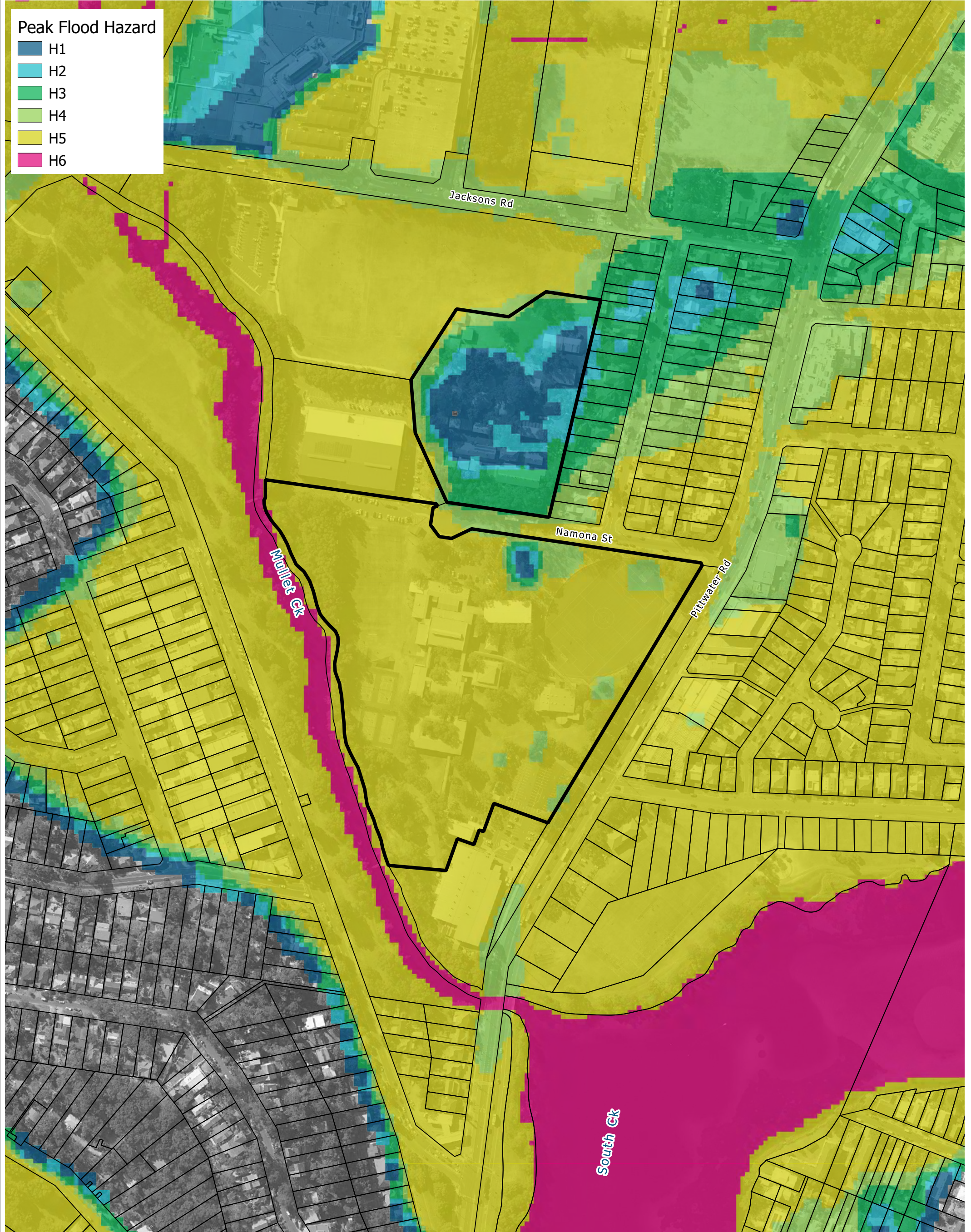
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Drawing:
C-07

Rev:
A





Peak Flood Hazard

- H1
- H2
- H3
- H4
- H5
- H6

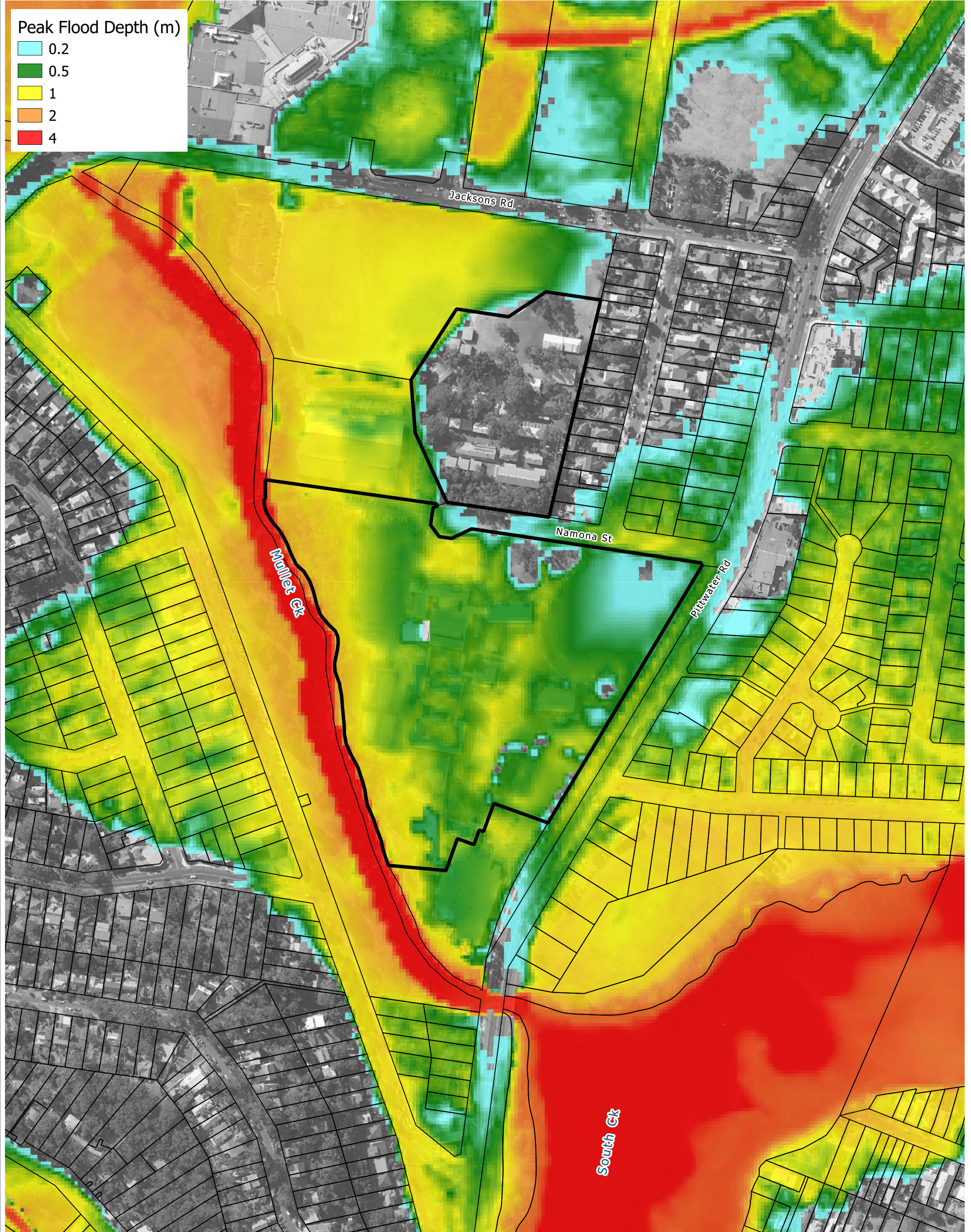
Legend

- Site Boundary
- Cadastral Boundary

Title:	Drawing:	Rev:
Peak Flood Hazard - Existing Scenario - PMF	C-08	A

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Annex D Flood Mapping for Proposed Conditions

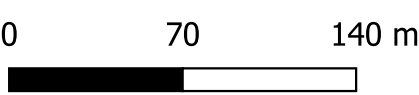


Legend

- Site Boundary
- Cadastral Boundary

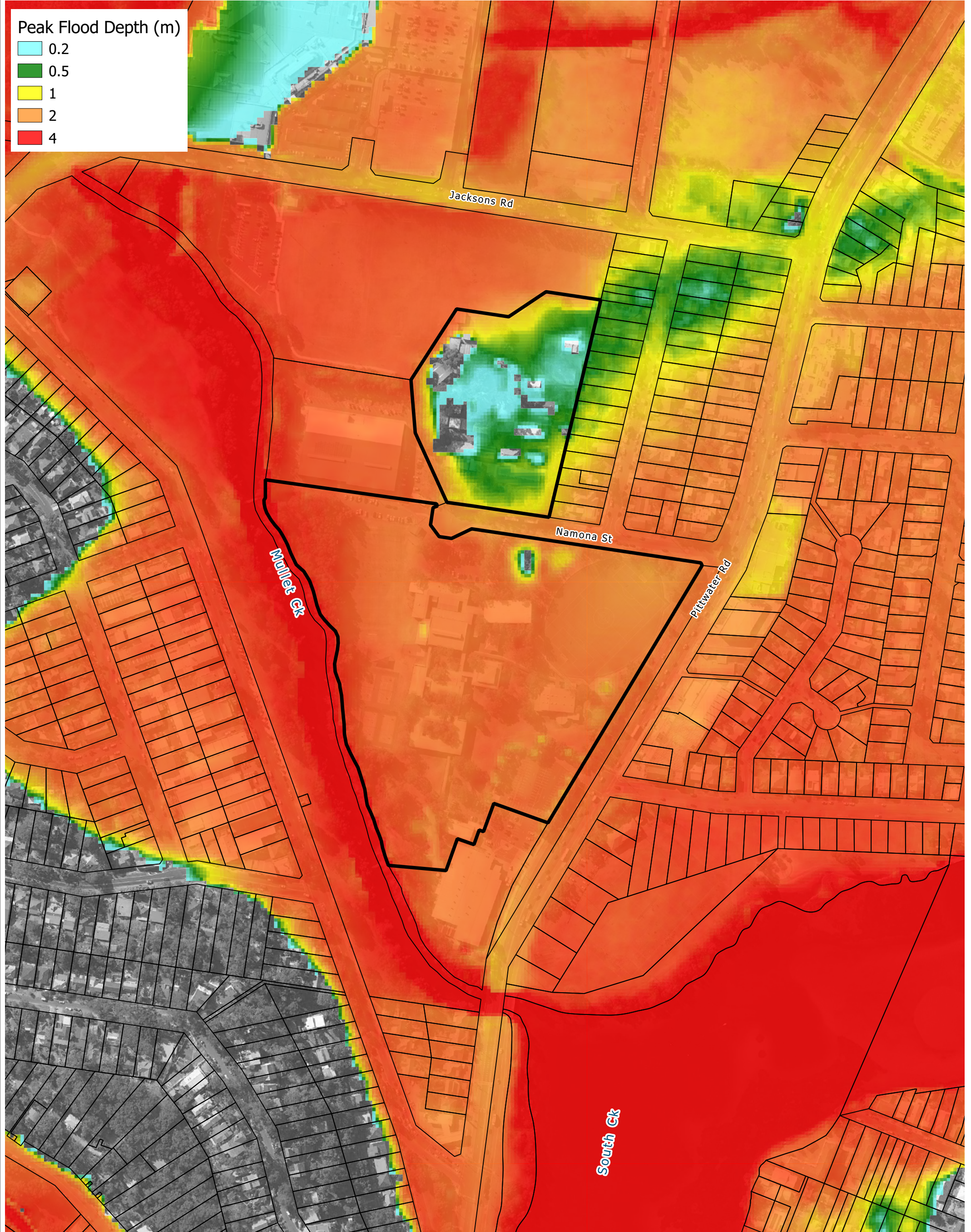
Title:
Peak Flood Depth - Proposed Scenario - 1% AEP Flood

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
Drawing: **D-01**
Rev: **A**





Legend

 Site Boundary

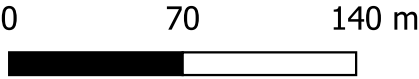
 Cadastral Boundary

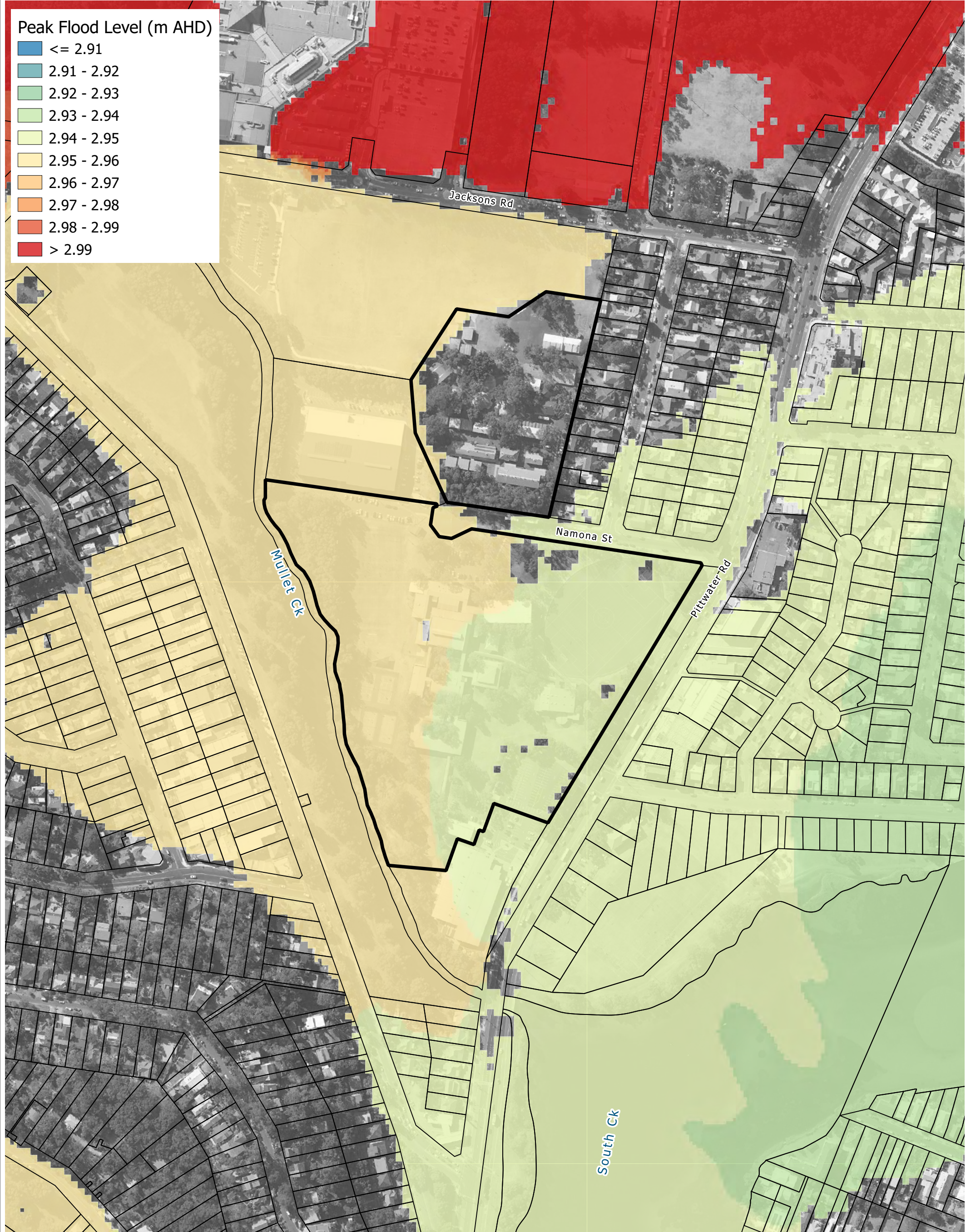
Title:
Peak Flood Depth - Proposed Scenario - PMF

Drawing:
D-02

Rev:
A

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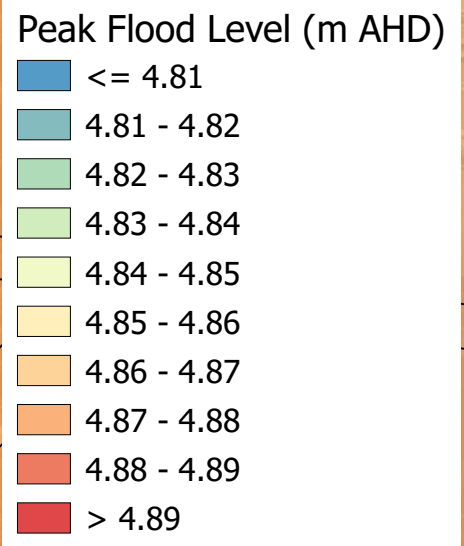
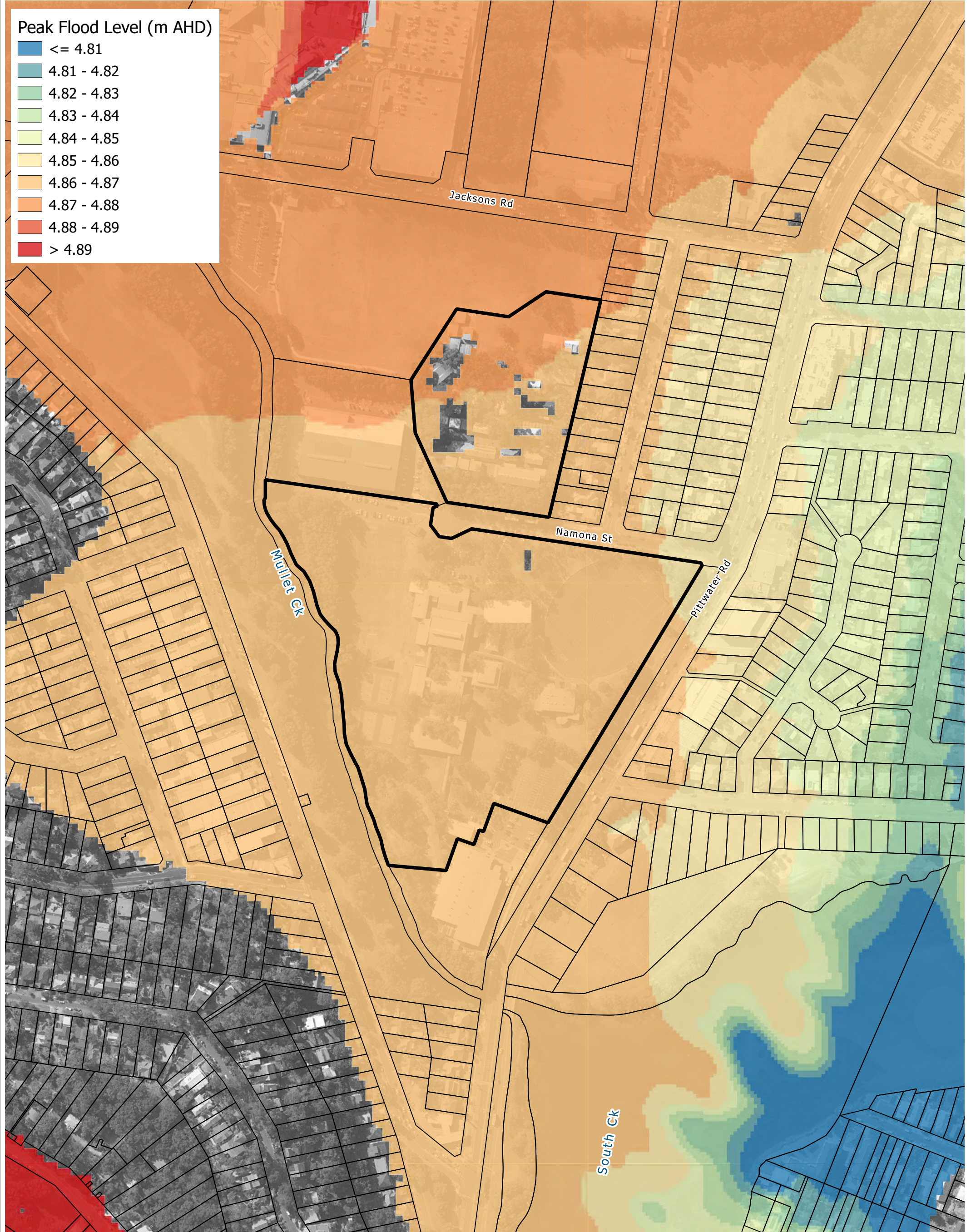
Peak Flood Level (m AHD)

- <= 2.91
- 2.91 - 2.92
- 2.92 - 2.93
- 2.93 - 2.94
- 2.94 - 2.95
- 2.95 - 2.96
- 2.96 - 2.97
- 2.97 - 2.98
- 2.98 - 2.99
- > 2.99

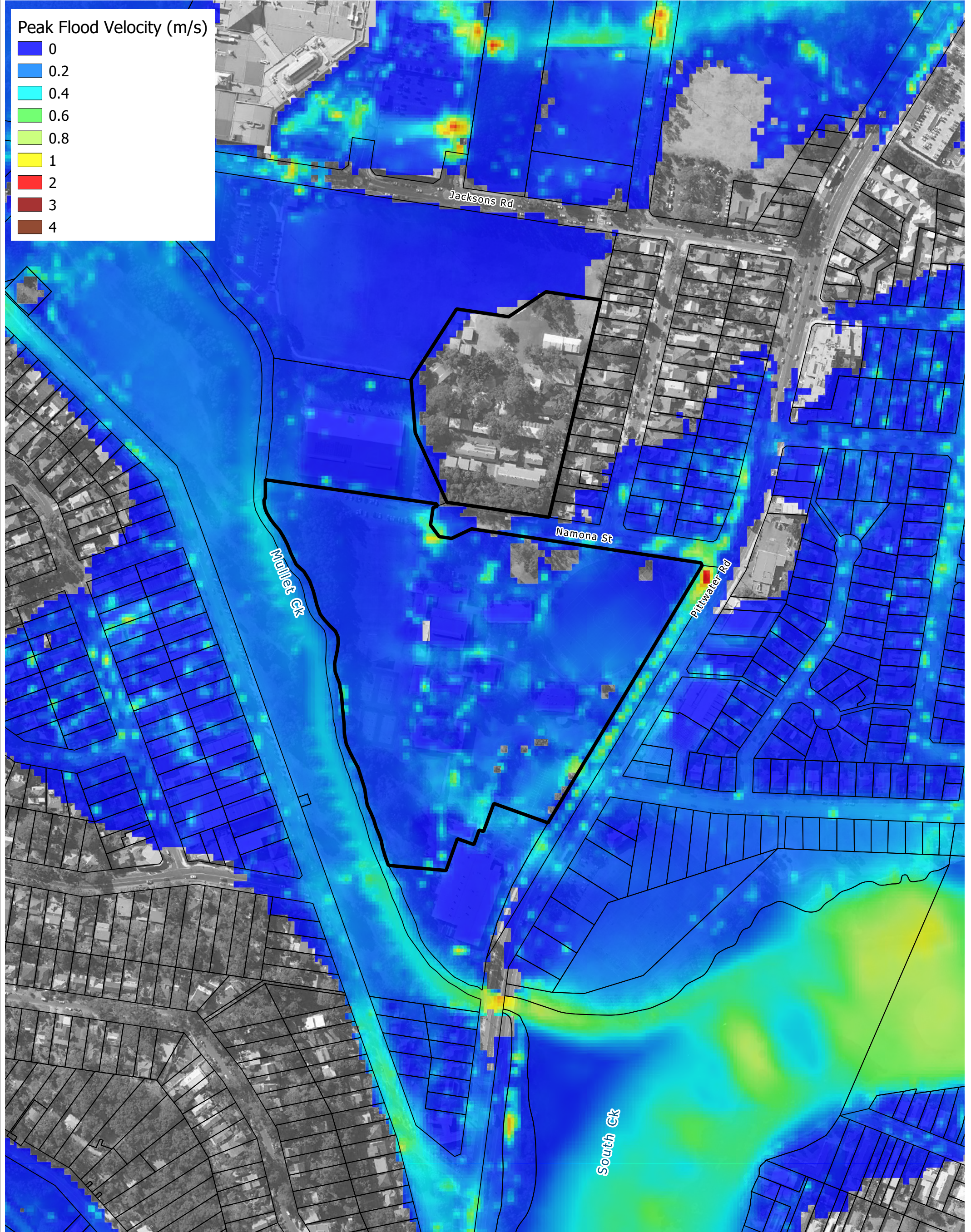
Legend


- Site Boundary
- Cadastral Boundary

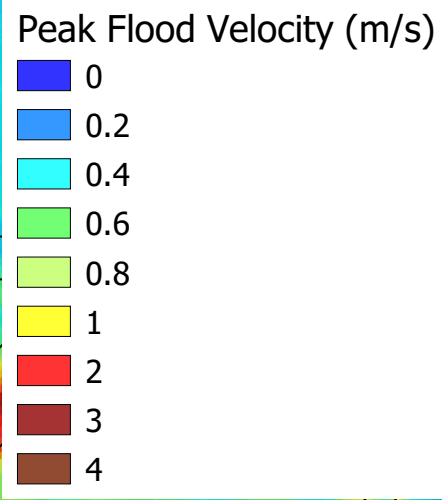
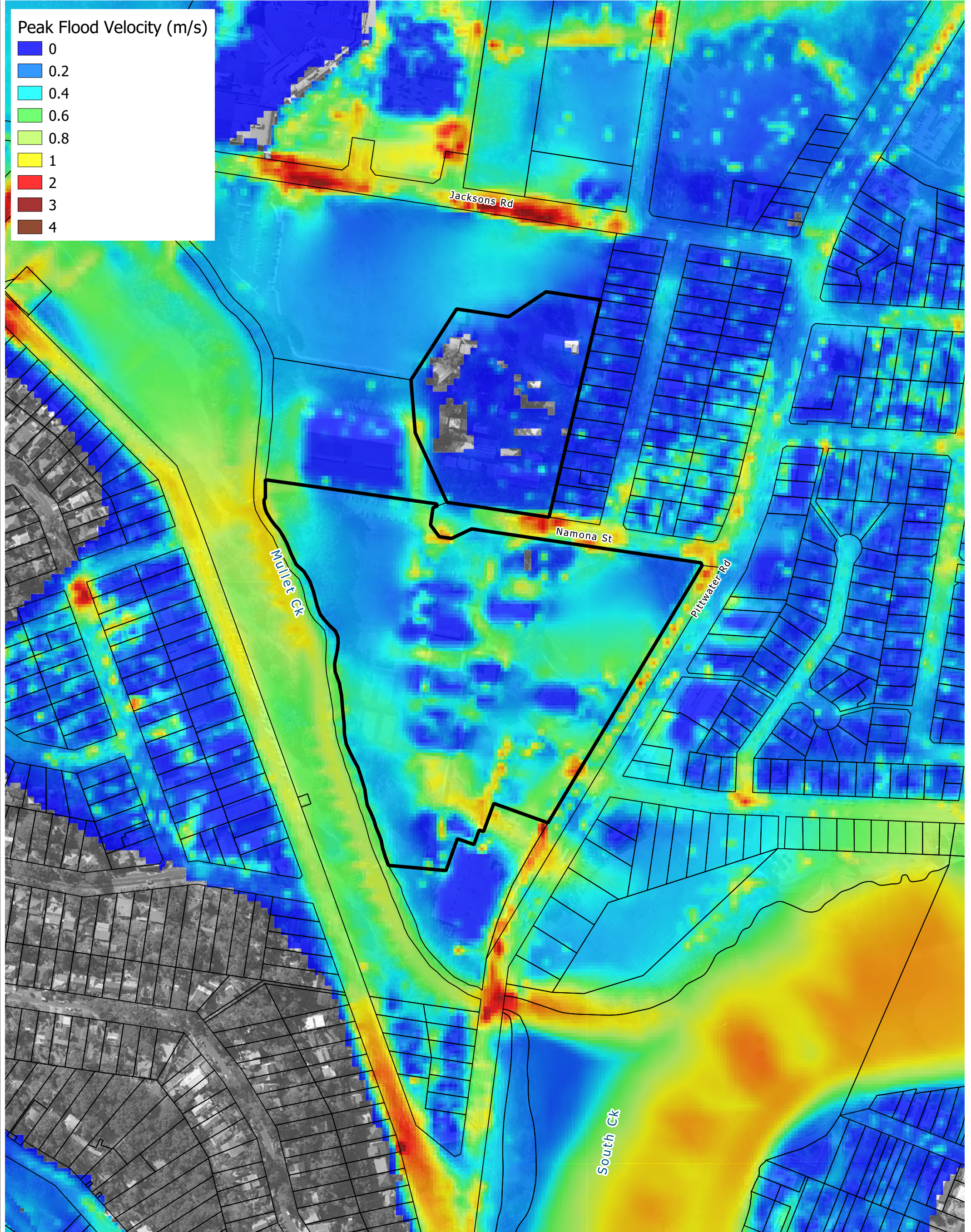
Title: Peak Flood Level - Proposed Scenario - 1% AEP Flood		Drawing: D-03	Rev: A
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Legend <div><div></div> Site Boundary</div> <div><div></div> Cadastral Boundary</div>	Title: Peak Flood Level - Proposed Scenario - PMF		Drawing: D-04	Rev: A
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Legend <div><div></div> Site Boundary</div> <div><div></div> Cadastral Boundary</div>	Title: Peak Flood Velocity - Proposed Scenario - 1% AEP Flood		Drawing: D-05	Rev: A
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Legend

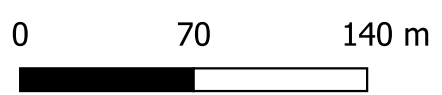
Site Boundary

Cadastral Boundary

Title:

Peak Flood Velocity - Proposed Scenario - PMF

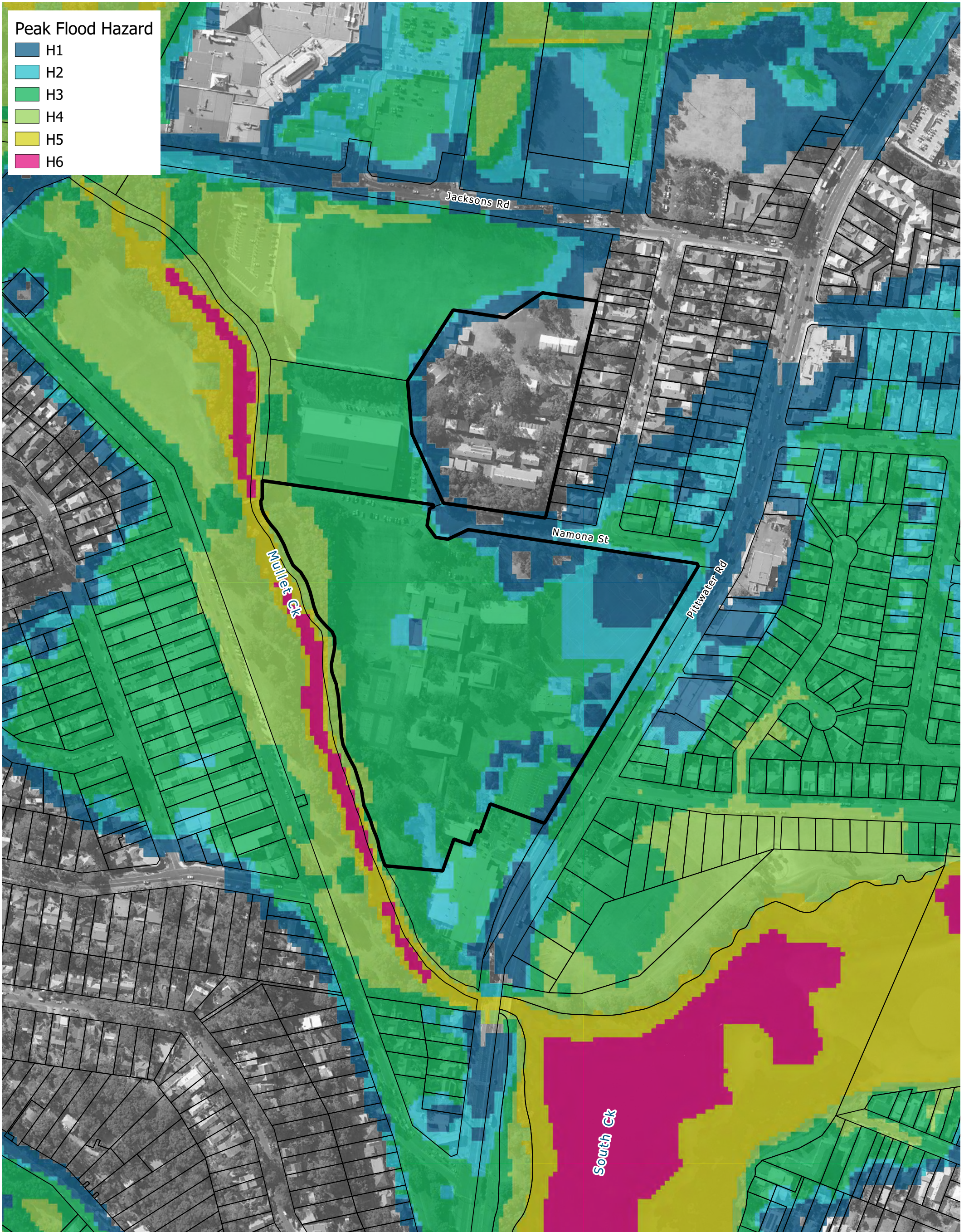
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Drawing: **D-06**

Rev: **A**



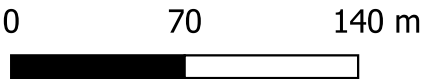


Legend

- Site Boundary
- Cadastral Boundary

Title:
Peak Flood Hazard - Proposed Scenario - 1% AEP Flood

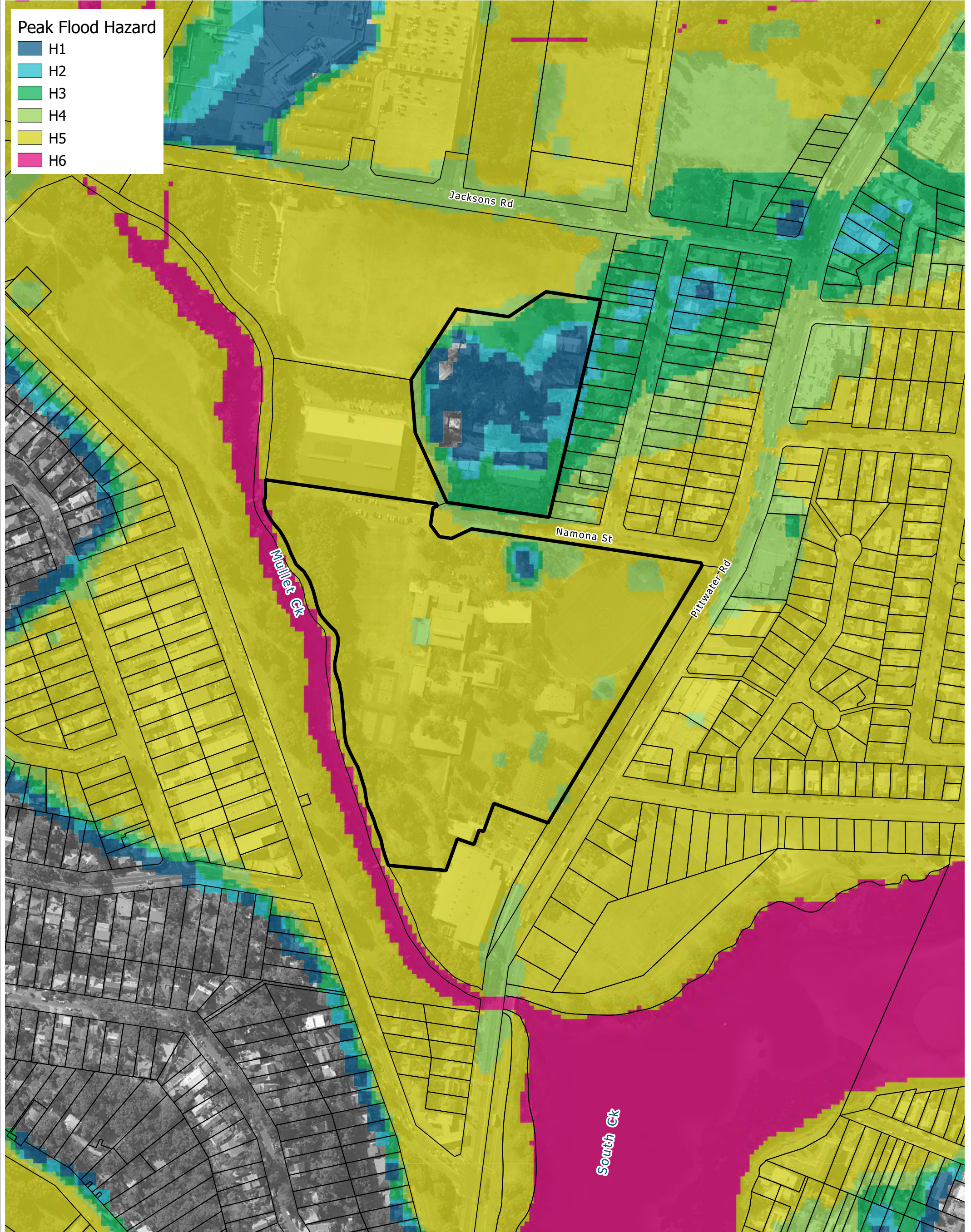
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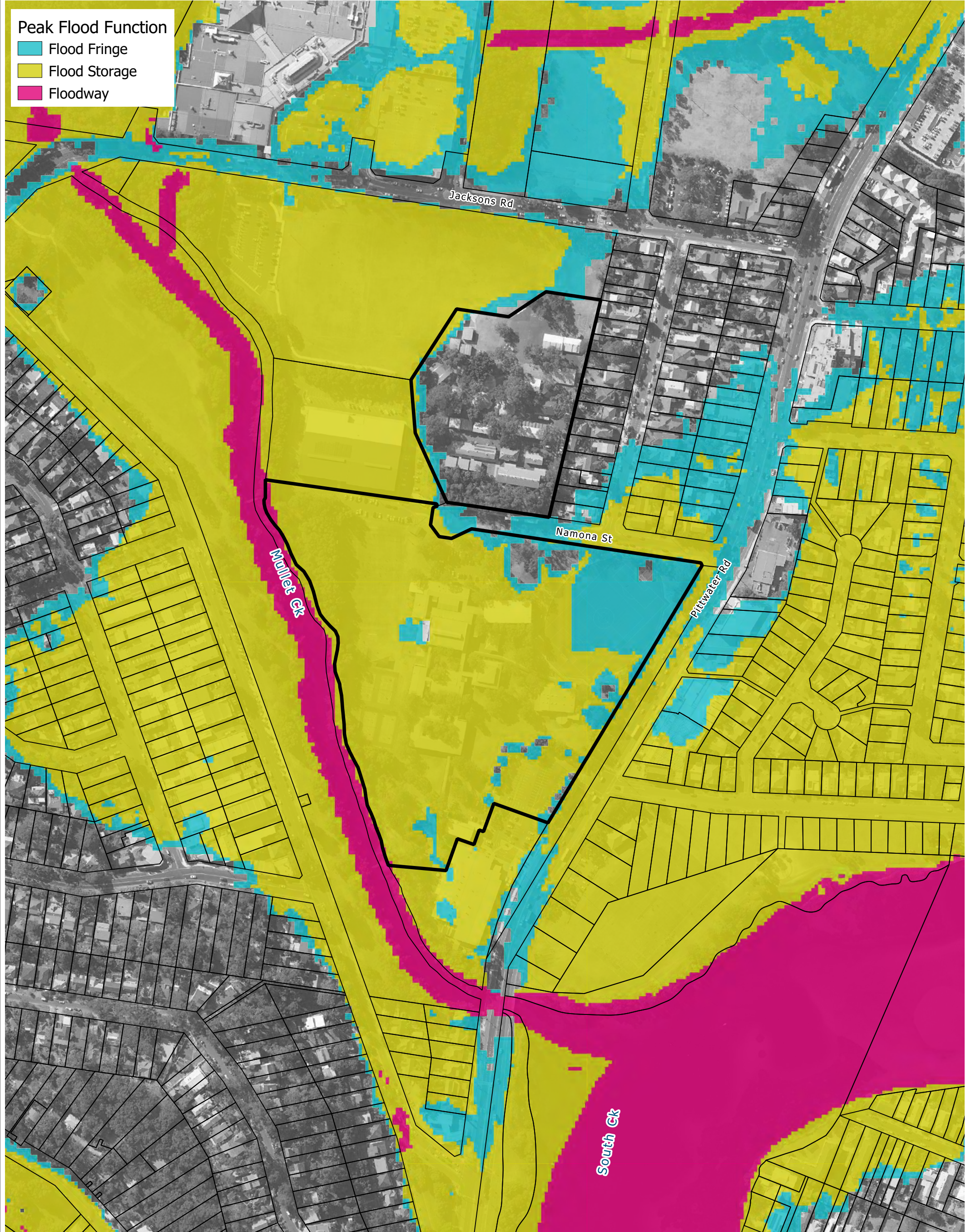
Drawing:
D-07

Rev:
A





Legend <div><div></div> Site Boundary</div> <div><div></div> Cadastral Boundary</div>	Title: Peak Flood Hazard - Proposed Scenario - PMF		Drawing: D-08	Rev: A
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	070140 m		Filepath: S:\WATER\PROJECTS\A12029_Narrabeen_Education_Precinct_FIA\GIS\Figures\Generator_FIA_Update_02\Generator\Figure_Generator.qgz	



Peak Flood Function

- Flood Fringe
- Flood Storage
- Floodway

Legend

- Site Boundary
- Cadastral Boundary

Title:

Peak Flood Function - Proposed Scenario - 1% AEP Flood

Drawing:

D-09

Rev:

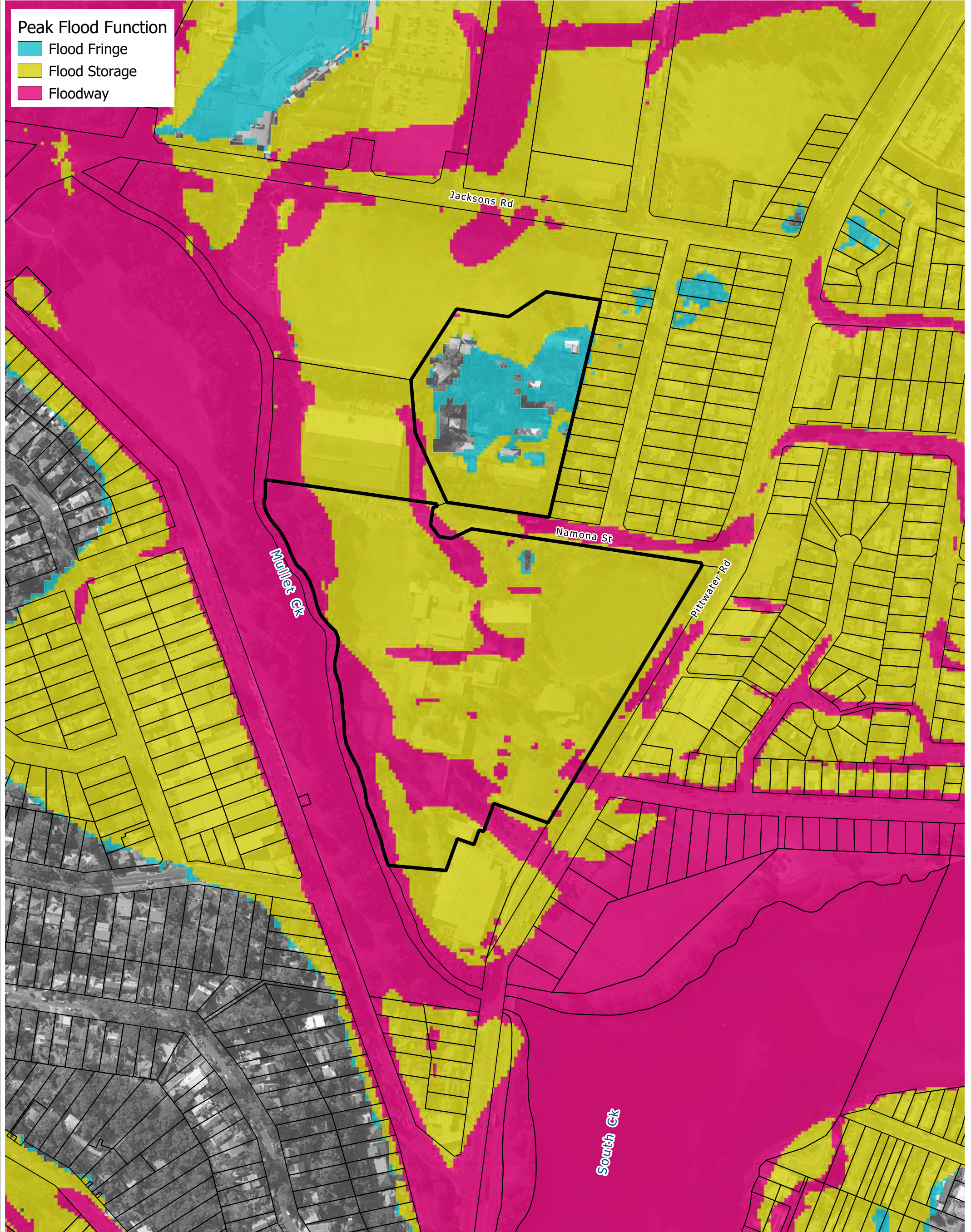
A

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0 70 140 m



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Peak Flood Function

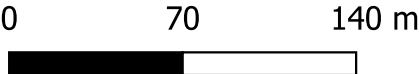
- Flood Fringe
- Flood Storage
- Floodway

Legend

- Site Boundary
- Cadastral Boundary

Title: Peak Flood Function - Proposed Scenario - PMF

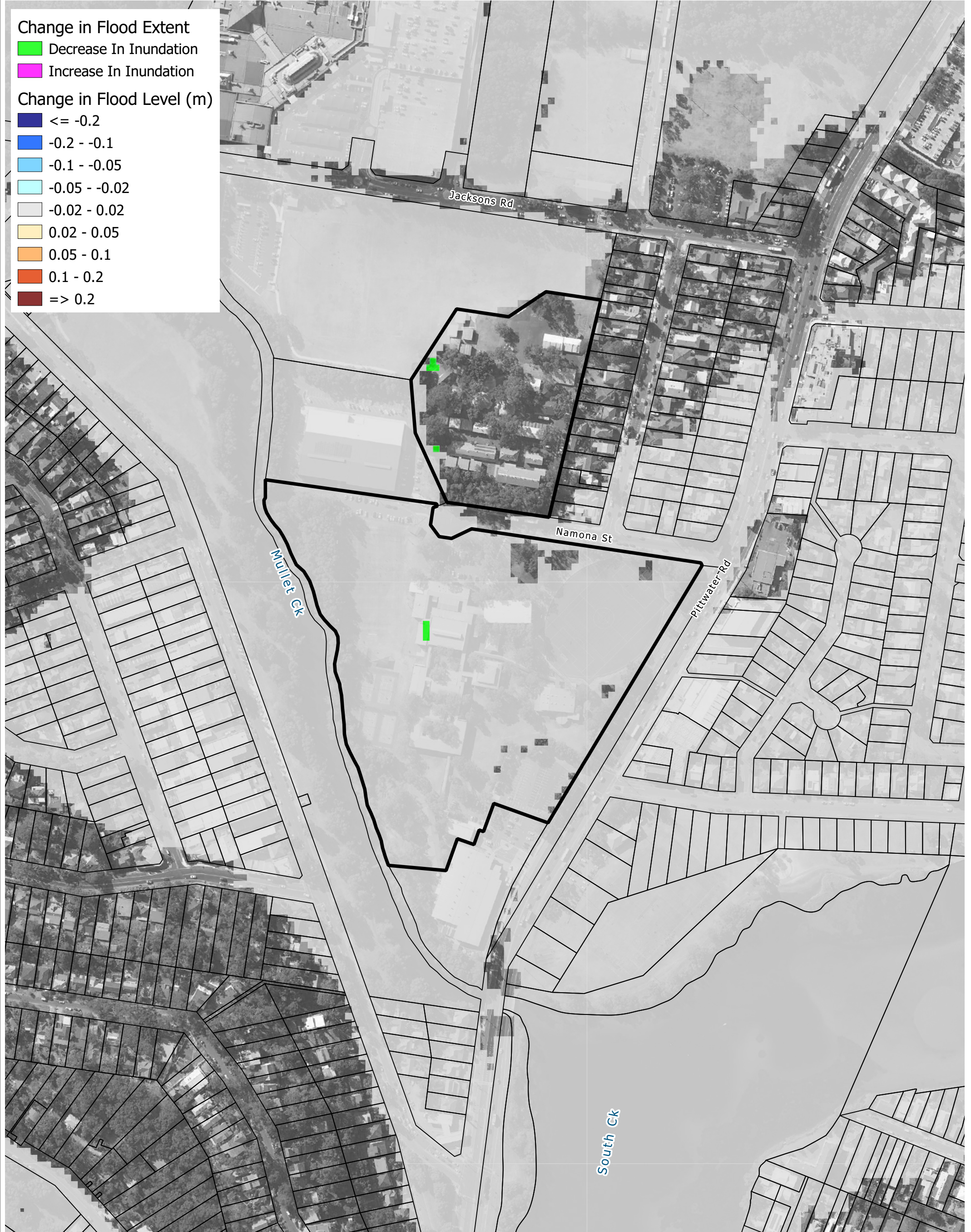
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Drawing: D-10 Rev: A



Annex E Flood Impact Mapping



Change in Flood Extent

Decrease In Inundation

Increase In Inundation

Change in Flood Level (m)

≤ -0.2

$-0.2 - -0.1$

$-0.1 - -0.05$

$-0.05 - -0.02$

$-0.02 - 0.02$

$0.02 - 0.05$

$0.05 - 0.1$

$0.1 - 0.2$

≥ 0.2

Legend

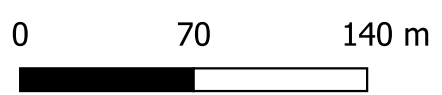
Site Boundary

Cadastral Boundary

Title:

Change in Peak Flood Level - 1% AEP Flood

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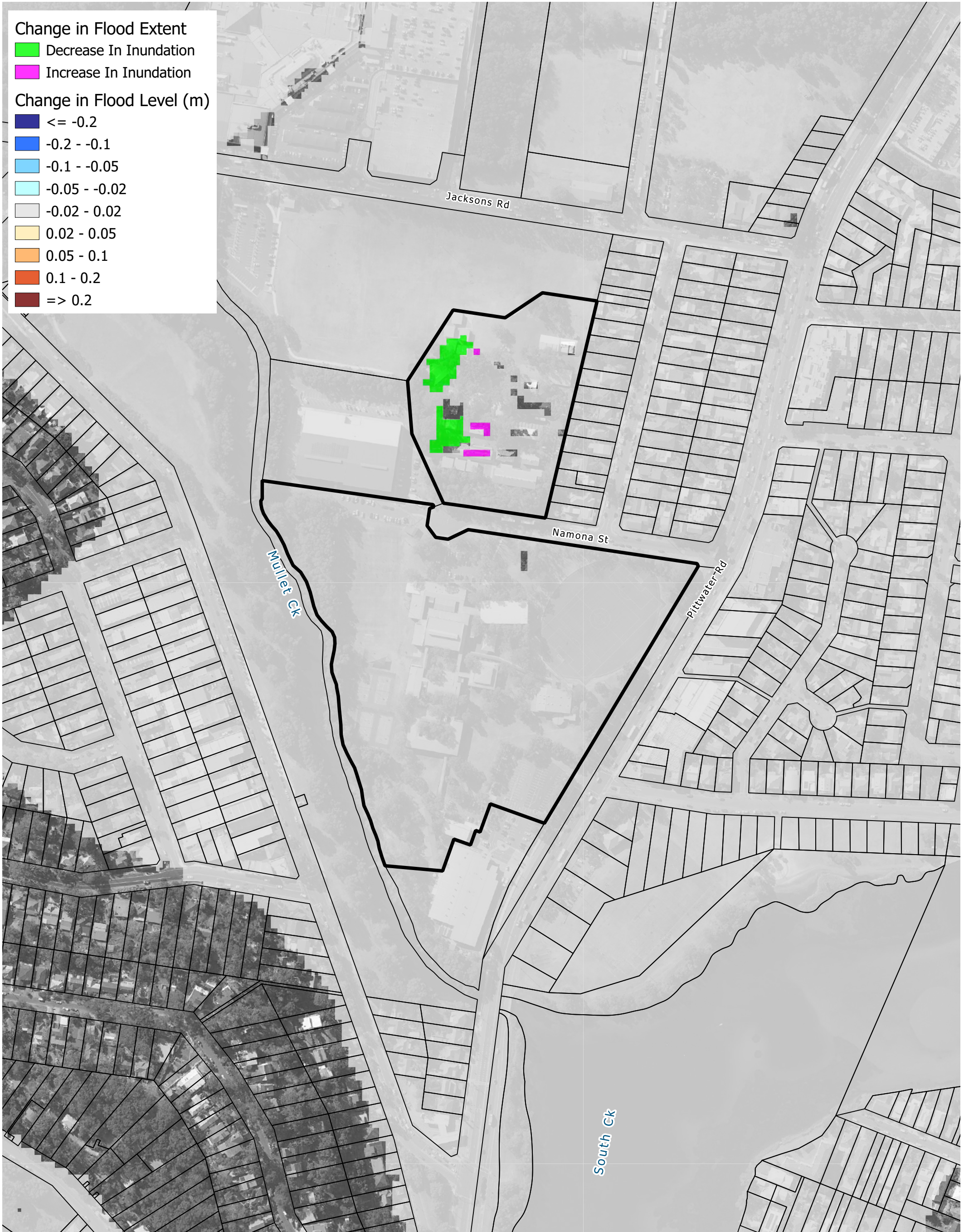
Drawing:

E-01

Rev:

A



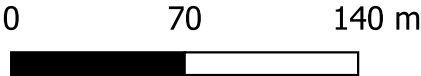


Legend

- Site Boundary
- Cadastral Boundary

Title:
Change in Peak Flood Level - PMF

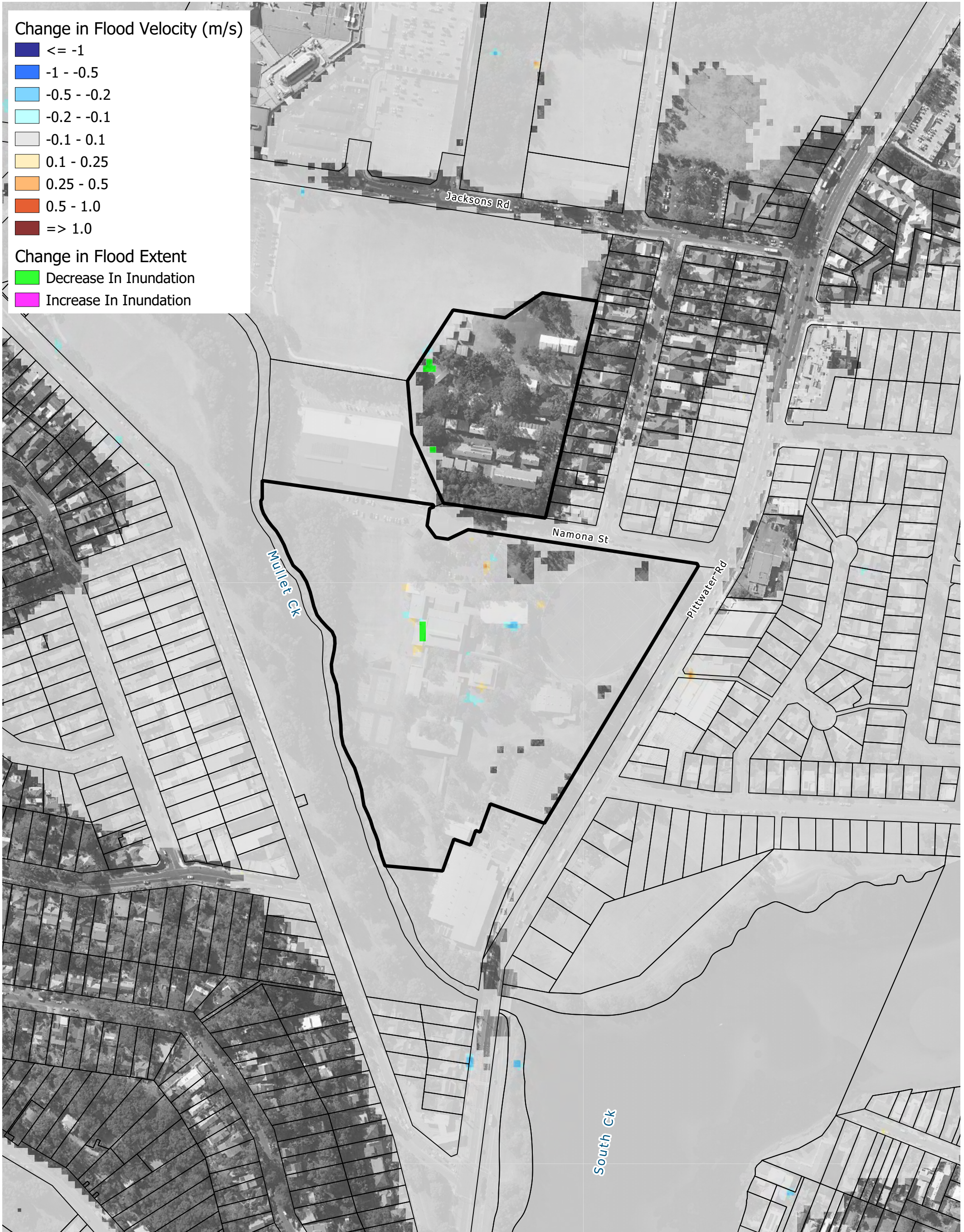
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
Drawing:
E-02

Rev:
A



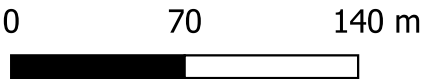


Legend

-  Site Boundary
-  Cadastral Boundary

Title:
Change in Peak Flood Velocity - 1% AEP Flood

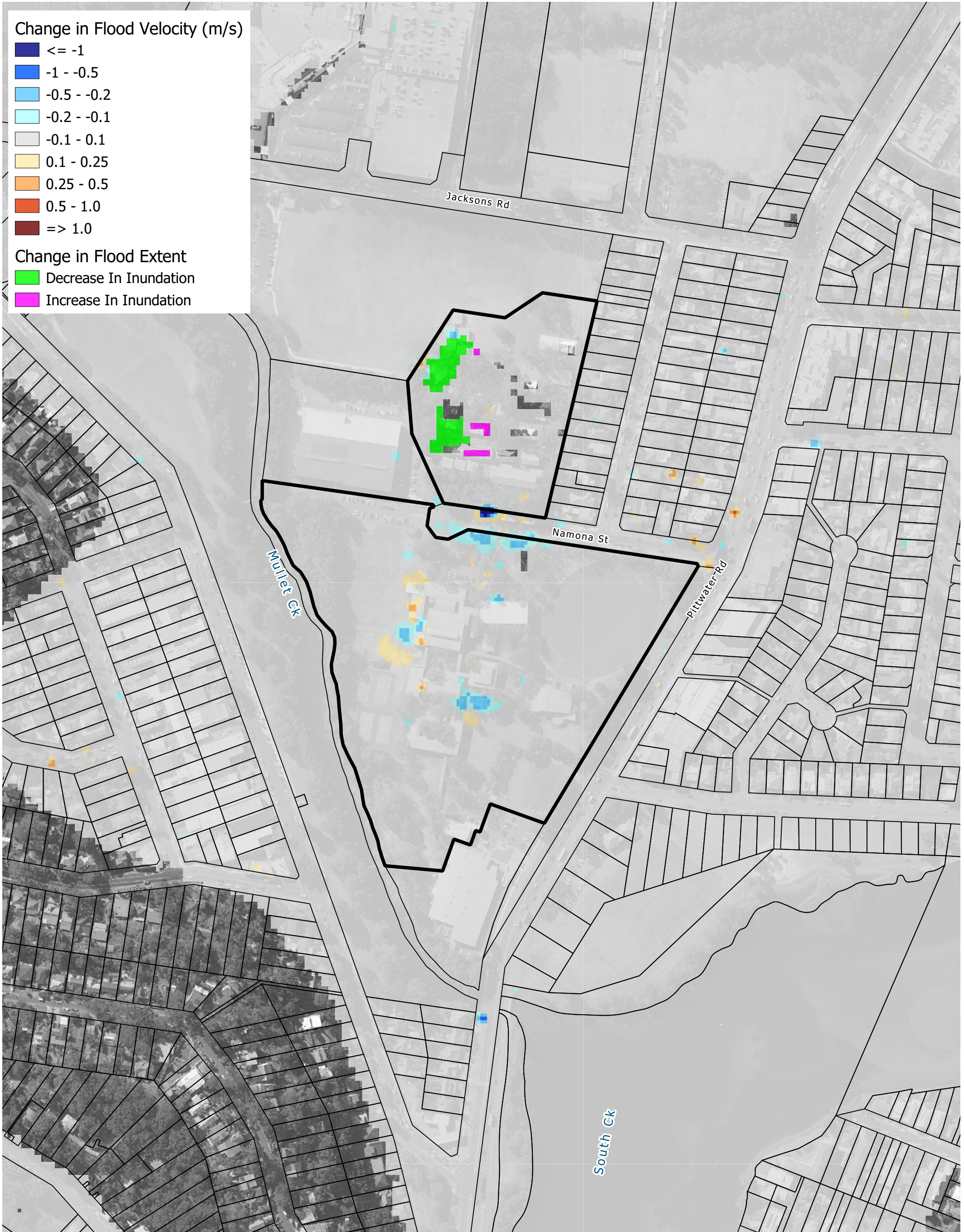
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Drawing:
E-03

Rev:
A



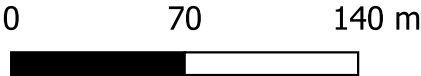


Legend

- Site Boundary
- Cadastral Boundary

Title:
Change in Peak Flood Velocity - PMF

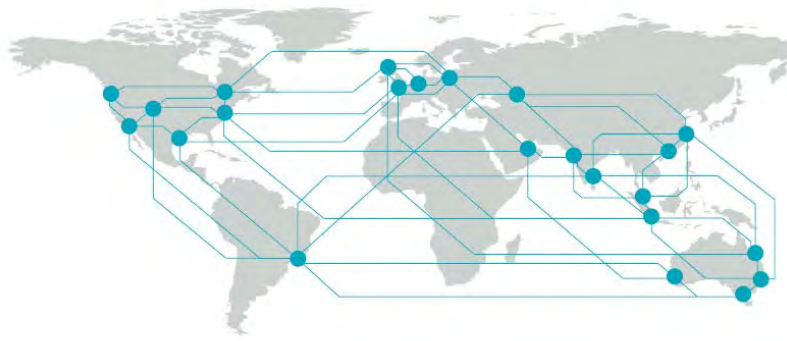
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Drawing:
E-04

Rev:
A





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