Alex Avenue Public School

Farmland Drive, Schofields, NSW, 2762
Transport Impact Assessment

Prepared by: GTA Consultants (NSW) Pty Ltd for School Infrastructure c/o TSA

on 08/04/2020

Reference: N185450

Issue #: A-Dr2

GTAconsultants

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Quality Record

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GTAconsultants

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1. INTRODUCTION

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1.1. Background

This Transport Impact Assessment has been prepared by GTA Consultants (GTA) on behalf of School Infrastructure. It accompanies an Environmental Impact Statement (EIS) in support of a State Significant Development Application (SSD 9368) for the development of a new primary school, the Alex Avenue Public School, in Schofields.

Alex Avenue Public School will cater for students from Kindergarten to Year 6 and will have a student capacity of 1000 students and 70 full-time staff upon completion.

The proposal seeks content for a staged development of the school:

Stage 1

- Construction of a 2-storey library, administration and staff building (Block A).
- Construction of Block B1 and Block B2 2-storey classroom buildings (Block B).
- Construction of a single storey assembly hall (Block C) and integrated overed outdoor learning area (COLA).
- Associated site landscaping and open space.
- Pedestrian access points along Farmland Drive.
- Substation on the north-east corner of the site.
- School signage on the front entrance.

At the completion of Stage 1, the school will have a maximum capacity of 600 students and 22 full-time staff.

Stage 2

- Construction of four 2-storey classroom buildings Block B3 and B4. Special needs homebase(s) will form part of the Stage 2 classroom buildings.
- Pedestrian access points along the future Pelican Road.

At the completion of Stage 2, the school will reach a maximum capacity of 1000 students and 70 full-time staff. Refer to Figure 1.1 for site plan with staging. Refer to Figure 1.2 for 3D site plan for Stage 1.

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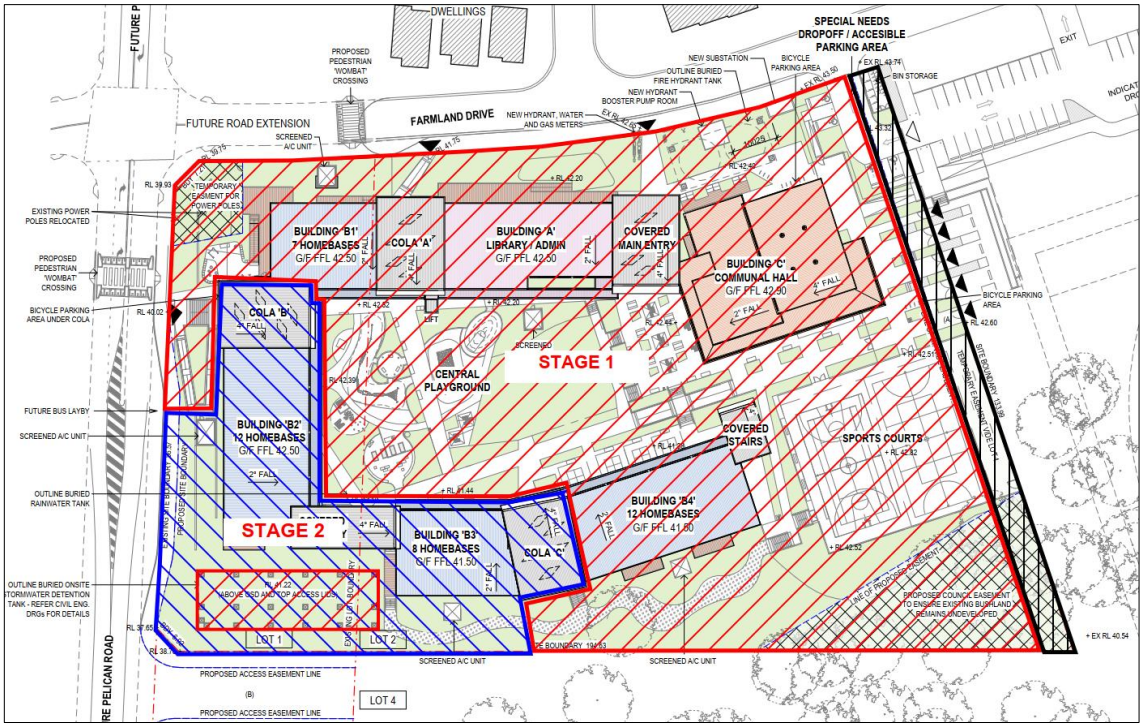
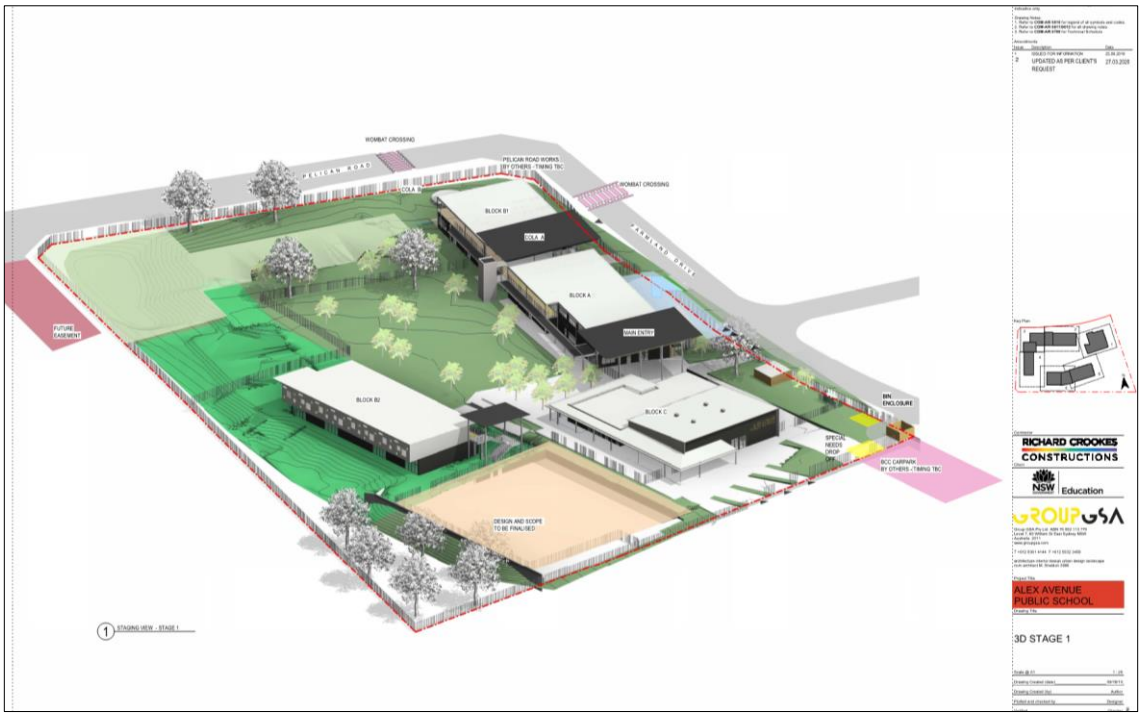
Figure 1.1: Proposed Site Plan



Source: Drawing AA-AR-1100 - Stages, revision 5, received from Richard Crookes, dated 08.04.2020

Figure 1.2: Proposed Stage 1 3D Site Plan



Source: Drawing AA-AR-1203, Issue 2, by Group GSA Architects, dated 26.03.2020

1.2. Purpose of this report

The purpose of this Transport Impact Assessment is to identify the anticipated transport implications of the proposed school.

The remainder of this report is structured as follows:

- Section 2 provides an overview of the strategic context.
- Section 3 presents the existing conditions of the surrounding transport network.
- Section 4 provides an overview of the development proposal and the key transport infrastructure proposed for the site.
- Section 5 assesses the car parking provision and impact of the proposed development.
- Section 6 presents an assessment of the estimate number of trips for each mode of travel and impacts on the surrounding road network.
- Section 7 assesses the public and active mode transport considerations and implications on the existing transport network
- Section 8 provides a preliminary construction traffic management plan for the proposed development.
- Section 9 presents the conclusions for the report.

A separate Green Travel Plan addressing both staff and student travel has been prepared to support the proposed development. This report provides details of travel demand management measures to minimise the impact on the surrounding road network, as well as initiatives to encourage sustainable travel to and from the site to increase the non-car travel mode share.

1.3. Response to SEARs

This Transport and Accessibility Assessment is required by the Secretary's Environmental Assessment Requirements (SEARs) for SSD 9368. Table 1.1 identifies the SEARs and relevant reference within this report.

Table 1.1: Secretary's Environmental Assessment Requirements

Key Traffic and Transport Issue	Relevant Report Section
Accurate details of the current daily and peak hour vehicle, existing and future public transport networks and pedestrian and cycle movement provided on the road network located adjacent to the proposed development;	Section 3.6, Section 3.7, Section 6
Details of estimated total daily and peak hour trips generated by the proposal, including vehicle, public transport, pedestrian and bicycle trips based on surveys of the existing and similar schools within the local area;	Section 6
The adequacy of existing public transport or any future public transport infrastructure within the vicinity of the site, pedestrian and bicycle networks and associated infrastructure to meet the likely future demand of the proposed development;	Section 3.6, Section 3.7, Section 4.7, Section 4.9, Section 5.5, Section 7
Measures to integrate the development with the existing/future public transport network;	Section 4.7, Section 4.9, Section 4.10

Key Traffic and Transport Issue	Relevant Report Section
The impact of trips generated by the development on nearby intersections, particularly Schofields Road and Pelican Road, with consideration of the cumulative impacts from other approved developments in the vicinity, and the need/associated funding for, and details of, upgrades or road improvement works, if required (Traffic modelling is to be undertaken using SIDRA network modelling for current and future years);	Section 6
The identification of infrastructure required to ameliorate any impacts on traffic efficiency and road safety impacts associated with the proposed development, including details on improvements required to affected intersections, additional school bus routes along bus capable roads (i.e minimum 3.5 m wide travel lanes), additional bus stops or bus bays;	Section 4.6, Section 4.7, Section 4.10, Section 4.13
Details of travel demand management measures to minimise the impact on general traffic and bus operations, including details of a location-specific sustainable travel plan (Green Travel Plan and specific Workplace travel plan) and the provision of facilities to increase the non-car mode share for travel to and from the site;	Section 4.10, Section 5.6, GTA have also prepared a Green Travel Plan separate to this Transport Impact Assessment
The proposed walking and cycling access arrangements and connections to public transport services;	Section 4.9, Section 4.10
The proposed access arrangements, including car and bus pick-up/drop-off facilities, and measures to mitigate any associated traffic impacts and impacts on public transport, pedestrian and bicycle networks, including pedestrian crossings and refuges and speed control devices and zones;	Section 4.4, Section 4.5, Section 4.6, Section 4.7, Section 4.9, Section 4.10
Proposed bicycle parking provision, including end of trip facilities, in secure, convenient, accessible areas close to main entries incorporating lighting and passive surveillance;	Section 4.9
Proposed number of on-site car parking spaces for teaching staff and visitors and corresponding compliance with existing parking codes and justification for the level of car parking provided on-site;	Section 5
An assessment of the cumulative on-street parking impacts of cars and bus pick-up/drop-off, staff parking and any other parking demands associated with the development;	Section 5
An assessment of road and pedestrian safety adjacent to the proposed development and the details of required road safety measures and personal safety in line with CPTED;	Section 4.6, Section 5.6.5
Emergency vehicle access, service vehicle access, delivery and loading arrangements and estimated service vehicle movements (including vehicle type and the likely arrival and departure times); and	Section 4.11, Section 4.12
The preparation of a preliminary Construction Traffic and Pedestrian Management Plan to demonstrate the proposed management of the impact in relation to construction traffic addressing the following: o assessment of cumulative impacts associated with other construction activities (if any); o an assessment of road safety at key intersection and locations subject to heavy vehicle construction traffic movements and high pedestrian activity; o details of construction program detailing the anticipated construction duration and highlighting significant and milestone stages and events during the construction process; o details of anticipated peak hour and daily construction vehicle movements to and from the site; o details of on-site car parking and access arrangements of construction vehicles, construction workers to and from the site, emergency vehicles and service vehicle; and o details of temporary cycling and pedestrian access during construction.	Section 8

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1.4. References

In preparing this report, reference has been made to the following:

- Blacktown Development Control Plan 2015
- Blacktown City Council Growth Centre Precincts 2010 Schedule 1 Alex Avenue Precinct
- Alex Avenue Public School, Schofields Traffic Impact Assessment prepared by Bitzios Consulting, 24/05/2019
- Alex Avenue Public School, Schofields Construction Traffic Management Plan prepared by Bitzios Consulting, 24/01/2019
- Alex Avenue Public School, Schofields Green Travel Plan prepared by Bitzios Consulting, 24/05/2019
- Alex Avenue Public School, Schofields Green Travel Plan prepared by GTA Consultants, 08/04/2020
- Drawing AA-AR-1100, by Group GSA, issue 5, dated 21/02/2020
- Drawing AA-AR-1203, by Group GSA, issue 2, dated 26/03/2020
- Blacktown City Council Engineering Guide for Development 2005
- Trip Generation Surveys, Schools Analysis Report (2014) by GTA
- Roads and Maritime Services (Roads and Maritime) Guide to Traffic Generating Developments October 2002
- Roads and Maritime Guide to Traffic Generating Developments – Technical Direction August 2013
- Environmental Impact Statement prepared by Urbis, February 2019
- Cycling Aspects of Austroads Guides 2017
- New South Wales Government Planning Guidelines for Walking and Cycling 2004
- Austroads Guide to Traffic Management Part 12: Traffic Impacts of Development 2016
- Australian Standard/ New Zealand Standard, Parking Facilities, Part 1: Off-Street Car Parking AS/NZS 2890.1:2004
- Australian Standard, Parking Facilities, Part 2: Off-Street Commercial Vehicle Facilities AS 2890.2:2018
- Australian Standard, Parking facilities Bicycle Parking, AS 2890. 3:2015
- Australian Standard/ New Zealand Standard, Parking Facilities, Part 6: Off-Street Parking for People with Disabilities AS/NZS 2890.6:2009
- other documents and data as referenced in this report.

2. STRATEGIC CONTEXT

02

2.1. Planning Context

2.1.1. Strategic Context

A Plan for Growing Sydney, released by the Department of Planning and Environment in December 2014, serves as the overarching strategy for metropolitan Sydney, intended to guide land use planning decisions for the next 20 years. It outlines directions and actions for accommodating Sydney's predicted population growth over this time, with key actions relating to development of greenfield areas in the north west suburbs of Sydney.

The West Central Subregion is identified as a key focus for the infrastructure investment to support extensive growth, with two Strategic Centres proposed at Marsden Park and Rouse Hill and the upgrade of Schofields Road. The plan also identifies the need to coordinate housing and employment growth in the West Central Subregion with infrastructure delivery, while also providing these in suitable locations near public transport corridors and near new or established centres.

2.1.2. Regional Context

Alex Avenue Public School is located within the Alex Avenue Precinct which forms part of the North West Priority Growth Area (NWPGA) of Sydney defined by the Department of Planning and Environment.

The area is expected to accommodate up to 90,000 homes over the next 30 to 40 years, with around 33,000 of these to be built in the next ten years and a total future population of up to 250,000 people

The area is also expected to support more than 43,000 jobs including approximately 10,000 jobs at the Marsden Park District Centre. A growth corridor is also proposed between Marsden Park and Rouse Hill, as well as, located west of the Alex Avenue Precinct.

The North West Priority Growth Land Use and Infrastructure Implementation Plan sets out eight key actions to support the delivery of new homes and jobs in the area, including the following transport related actions:

- Undertake a strategic land use review of the future public transport corridor between Rouse Hill and Marsden Park and the upgrade of Schofields Road.
- Establish new density controls for residential land so that new communities are supported by adequate infrastructure and local councils can plan for the new population precinct plans into a single precinct plan.
- Work with Infrastructure NSW, local councils and the NSW State Emergency Service to review planning controls for land within the Hawkesbury-Nepean Valley which includes land below the probable maximum flood (PMF) level public transport corridor between Rouse Hill and Marsden Park and the upgrade of Schofields Road.
- Transfer planning controls into local environmental plans to make development controls more consistent.

2.1.3. Local Context

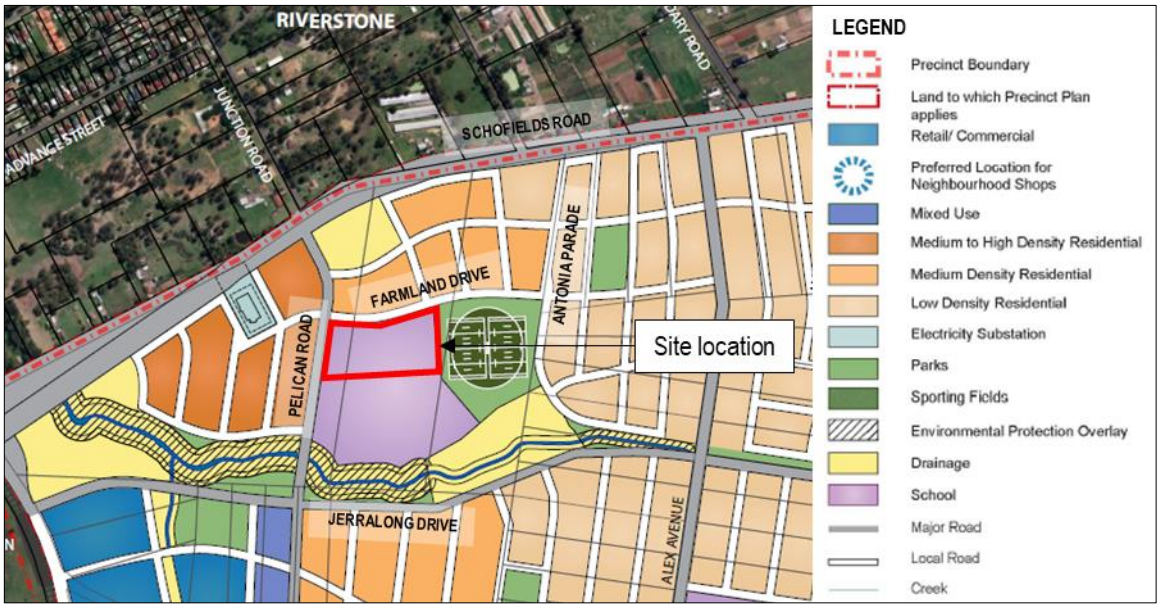
The Alex Avenue Precinct is located within the Blacktown LGA with a size of approximately 420 hectares.

The Precinct is expected to accommodate approximately 6,300 new homes along with local amenities close to transport options. The Alex Avenue Precinct Plan was finalised towards the end of 2010 by the Department of Planning and comprises the following features:

- two new schools with adjoining playing fields
- new railway station at Schofields with a commuter car park
- at least 25,000 square metres of retail space
- access to the duplicated Richmond Rail line
- Upgrades to Hambledon, Burdekin and Schofields Roads, including new rail crossings at Burdekin and Schofields Roads
- Improved connections to encourage walking and cycling.

A part of the approved Indicative Layout Plan (ILP) for the Alex Avenue Precinct is provided in Figure 2.1 to show the planning outcomes of the surrounding area specifically to the school, the intended surrounding land uses, community facilities, road network, environmental protection area, open spaces and drainage networks.

Figure 2.1: Indicative Layout Plan



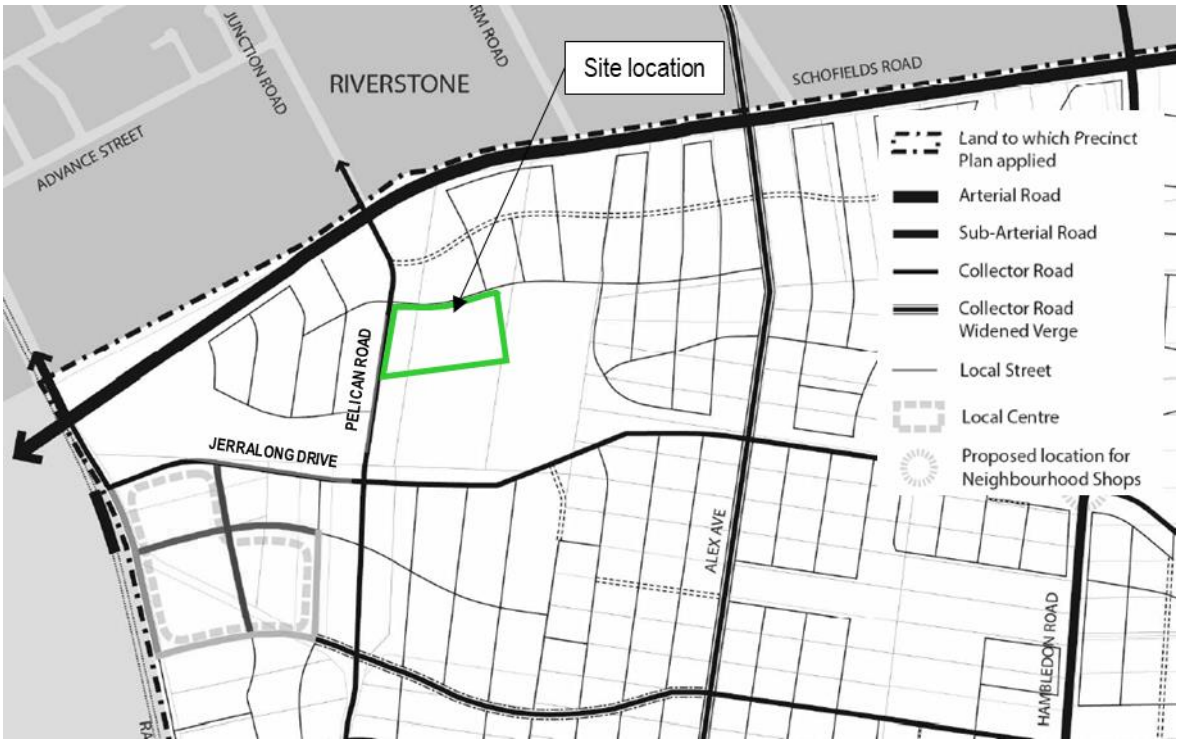
Source: Blacktown City Council Growth Centre Precincts Development Control Plan Schedule 1 Alex Avenue Precinct (2010), Blacktown City Council and Department of Planning

Blacktown City Council Growth Centre Precinct Development Control Plan 2010

Planning controls for the Alex Avenue Precinct were adopted in 2010 (amended in 2016), with the release of the Blacktown City Council Growth Centre Precincts Development Control Plan 2010 Schedule 1 (DCP 2010), which adopted the approved ILP.

The DCP 2010 sets out the road network and hierarchy for the Precinct as shown in Figure 2.2 indicating that the surrounding roads are local roads which connects to Alex Avenue, a collector road with widened verge and Pelican Road, which is a Collector Road.

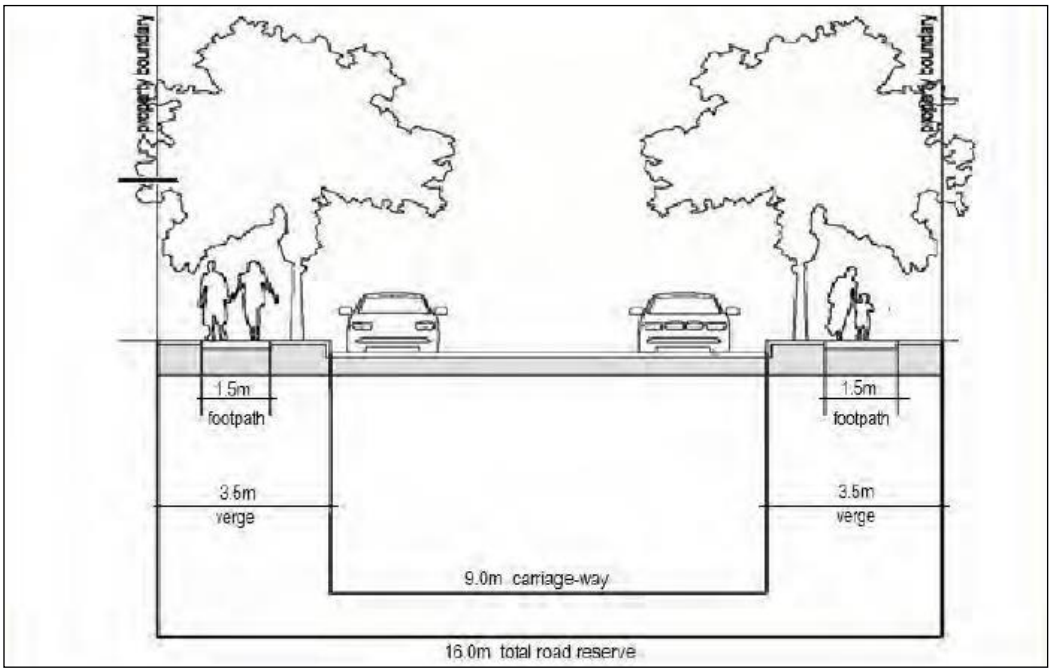
Figure 2.2: Alex Avenue Precinct Road Network and Hierarchy



Source: Blacktown City Council Growth Centre Precincts Development Control Plan Schedule 1 Alex Avenue Precinct (2010), Blacktown City Council and Department of Planning

The road cross-sections presented in DCP 2010 are presented in Figure 2.3 and Figure 2.4

Figure 2.3: Typical local road



Source: Blacktown City Council Growth Centre Precincts Development Control Plan (2010), Blacktown City Council and Department of Planning.

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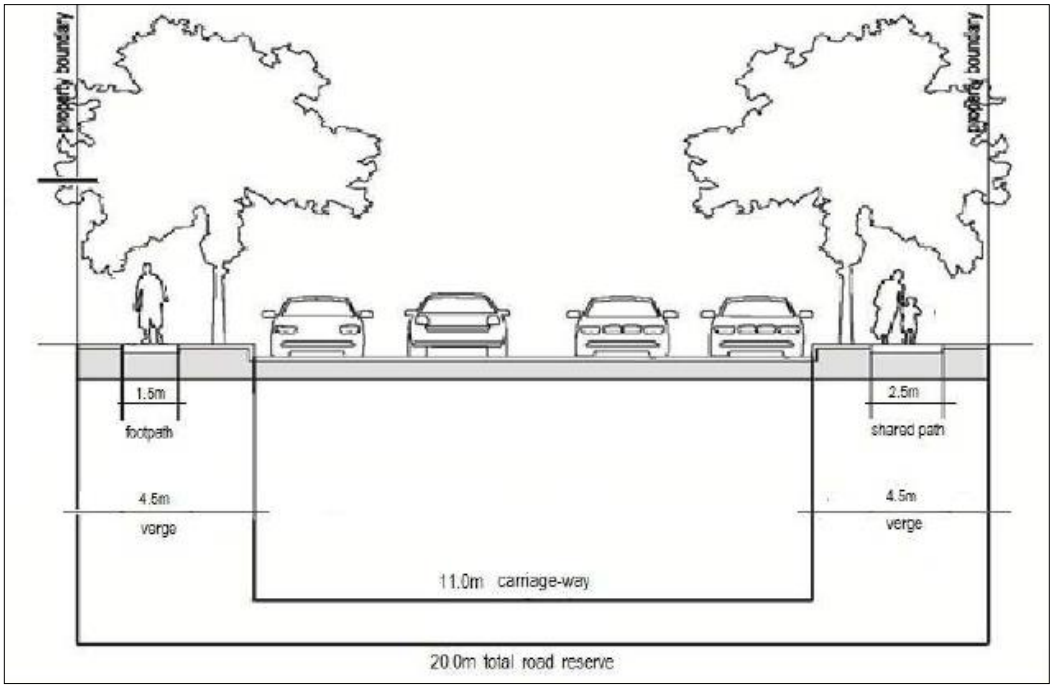
Figure 2.4: Typical collector road



Source: Blacktown City Council Growth Centre Precincts Development Control Plan (2010), Blacktown City Council and Department of Planning

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3. EXISTING CONDITIONS

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3.1. Site Location and Local Context

The proposed Alex Avenue Public School is in a greenfield site in Schofields, around 800 metres north-east of Schofields Train Station. The site will be bounded by Farmland Drive to the north and the future Pelican Road to the west. The site location is shown in Figure 3.2.

Figure 3.1: Site Location

Source: Nearmap, 2020

Based on the Blacktown Council Local Environmental Plan (LEP) 2015, the proposed school is located in an area zoned under the State Environmental Planning Policy (SEPP) (Sydney Region Growth Centres 2006). This policy provides comprehensive planning for the North West Growth Centre, the South West Growth Centre, and the Wilton Priority Growth Area of the Sydney region. The purpose of the policy is to coordinate growth centres to incorporate residential, employment and other urban development, and create sustainable neighbourhoods for community well-being and high-quality local amenity. The proposed planning of this zone will be presented in Section 3.2.

3.2. Existing Road Network

3.2.1. Road Hierarchy

Roads are classified according to the functions they perform. The main purpose of defining a road's functional class is to provide a basis for establishing the policies which guide the management of the road according to their intended service or qualities.

In terms of functional road classification, State roads are strategically important as they form the primary network used for the movement of people and goods between regions, and throughout the State. Roads and Maritime Services (Roads and Maritime) responsible for funding, prioritising and carrying out works on State roads. State roads generally include roads classified as freeways, state highways, and main roads under the Roads Act 1993, and the regulation to manage the road system is stated in the Australian Road Rules, most recently amended on 19 March 2018.

Roads and Maritime defines four levels in a typical functional road hierarchy, ranking from high mobility and low accessibility, to high accessibility and low mobility. These road classes are:

Arterial Roads – Controlled by Roads and Maritime, typically no limit in flow and designed to carry vehicles long distance between regional centres.

Sub-Arterial Roads – Managed by either Council or Roads and Maritime under a joint agreement. Typically, their operating capacity ranges between 10,000 and 20,000 vehicles per day, and their aim is to carry through traffic between specific areas in a sub region or provide connectivity from arterial road routes (regional links).

Collector Roads – Provide connectivity between local sites and the sub-arterial road network, and typically carry between 2,000 and 10,000 vehicles per day.

Local Roads – Provide direct access to properties and the collector road system and typically carry between 500 and 4,000 vehicles per day.

3.2.2. Surrounding Road Network

Farmland Drive and Antonia Parade

Farmland Drive is a local road aligned in an east-west direction along the northern boundary of the site. It connects with Alex Avenue to the east and currently terminates towards the north-east corner of the site boundary. Precinct planning includes its extension further west to adjoin with the future Pelican Road, as shown in Figure 2.2.

Antonia Parade is a local road aligned in north-south direction located further east of the site. It currently intersects with Farmland Drive east of the site at a priority-controlled intersection. The Farmland Drive/ Antonia Parade intersection is wide (some 30 metres measured diagonally across the intersection) and seemingly designed for future upgrade to a roundabout.

Both roads are constructed as per the typical local road cross-sections detailed in DCP 2010 and illustrated in Figure 2.3. Typical local roads include a nine-metre carriageway, including kerbside parking on both sides. While no footpaths are currently provided, DCP 2010 requires them within each of the 3.5m wide verges. It is expected that such facilities will be constructed as the area further develops.

Figure 3.2: Farmland Drive (looking west)

Figure 3.3: Antonia Parade (looking south)

Pelican Road

Pelican Road will be a collector road and will travel in a north-south direction along the western boundary of the site linking Schofields Road in the north with Jerralong Drive and Burdekin Road in the south. Burdekin Road will provide a key east-west link between the Schofields Precinct and Marsden Park in the west and Stanhope Gardens/ Parklea (and beyond) to the east. The cross-section of the standard collector road is shown in Figure 2.4.

Alex Avenue

Alex Avenue is a collector road with a widened verge that is aligned in a north-south direction. It is key to providing a connection to Burdekin Road to the south and Schofields Road to the north and continues on as Boundary Road. It provides a shared path along the east side and the cross-section of the standard collector road is shown in Figure 2.4.

Schofields Road

Schofields Road is classified as an arterial road. It is a major east-west link within the NWPGA that connects Marsden Park, Rouse Hill and Schofields. It has undergone recent significant upgrades to now serve as a multi-functional bus corridor/ arterial road, providing a four-lane, divided road with separated shared path on the southern alignment. The upgrades also included signalising the Hambledon Road/ Alex Avenue intersections and twin bridge crossings over First Ponds Creek. The posted speed limit is 70 kilometres per hour, with plans to reduce to 60 kilometres per hour in the future as traffic increases.

3.2.3. Surrounding Intersections

The following key intersections currently exist near the site:

- Farmland Drive/ Antonia Parade (unsignalised)
- Farmland Drive/ future Pelican Road (unsignalised)
- Farmland Drive/ Alex Avenue (unsignalised)

3.3. Previous Relevant Transport Studies

Bitzios Consulting prepared a transport study for Alex Avenue Public School in 2019 including a traffic impact assessment, green travel plan and a construction traffic and management plan. Since the completion of the previous study, the project design was further developed and subsequently this transport study is prepared. Assumptions from the Bitzios reports have been utilised throughout this report as acknowledged and outlined in section 6.4.

3.4. Existing Road Network Operation

The existing road network surrounding the proposed school is currently under development hence there is minimal traffic. Alex Avenue (road) is located around 600 metres east of the site and currently functions as the main local collector servicing the area until the future construction of Pelican Road is completed. With the area currently under development (primarily residential) and vacant occupancy rates, the road network currently operates with no noticeable traffic issues. The future base case road operation including the alignment of Pelican Road is presented in section 6.5.

3.5. Existing On-Street Parking

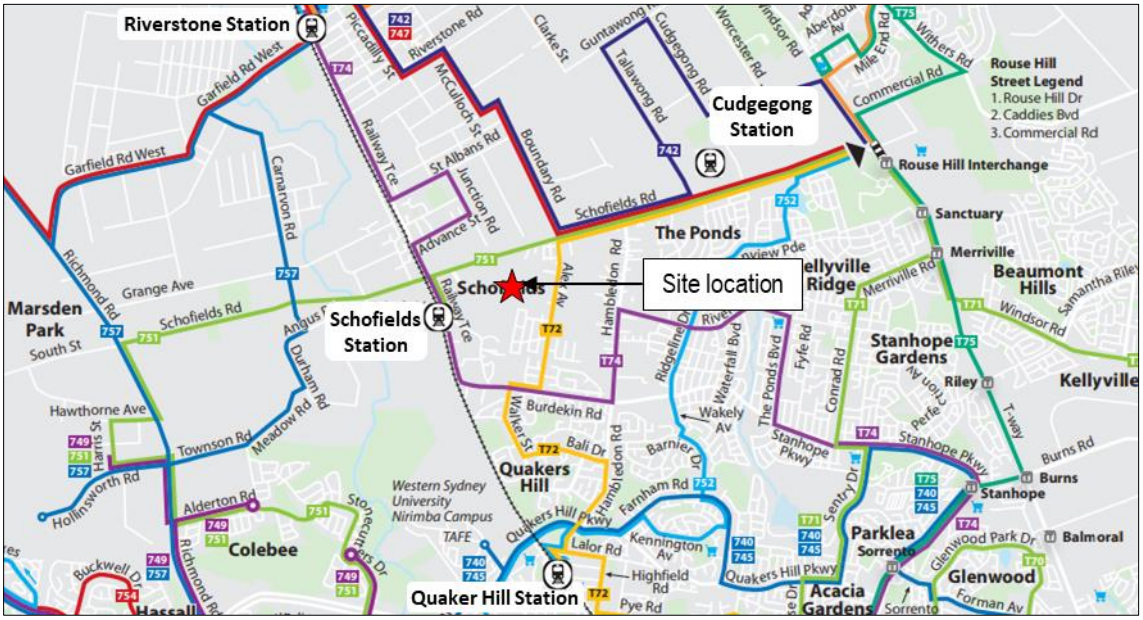
The Alex Avenue Public School is expected to have site frontages of approximately 140m on Farmland Drive and 70m on Pelican Road.

Parking along Pelican Road is likely to be limited due to the need to accommodate the future indented bus bay. After accounting for future accesses into the school, it is anticipated there will be around 15-20 on-street parking spaces along the Farmland Drive frontage. Parking restrictions are yet to be confirmed; it is noted that the area around the precinct currently does not present parking restrictions. It is anticipated that following development, these parking restrictions will be reviewed to align with the various user groups (e.g. school, business, residential) in the area.

3.6. Existing Public Transport

Public transport is generally limited within the vicinity of the site. Tallawong Metro Station is located around 2.5 kilometres to the north-east and Schofields Station is located around 800 metres to the south west. For bus services, Schofields Road has been identified as one of the key bus corridors through the area with various bus routes connecting the site to Rouse Hill town centre and Riverstone Station. Other routes travel on Alex Avenue, Hambledon Road and Riverbank Drive. A review of the public transport services available near the site is shown indicatively in Figure 3.4 and summarised in Table 3.1.

Figure 3.4: Surrounding public transport network



Base image source: Busways https://www.busways.com.au, accessed 22 July 2019

Table 3.1: Public transport provision

Service	Route number	Route description	Location of stop	Distance to nearest stop note 1	Frequency on/ off-peak
Train	T1	Northern Line (Richmond)	Schofields Station	800m	5-10min peak, 15-30min off-peak weekdays, 30min weekends
	T5	Cumberland Line	Schofields Station	800m	30min

Service	Route number	Route description	Location of stop	Distance to nearest stop note 1	Frequency on/ off-peak
		Sydney Metro West	Tallawong Station	2.5km	3-4min weekdays, 10min weekends
Bus	T72	Blacktown to Rouse Hill Town Centre	On Alex Avenue, south of Gozo Street	600m	30min 5am to 10pm, 60min 10pm to 1am weekdays, 60min weekends
	742	Riverstone to Rouse Hill	Schofields Road at Hambledon Road	700m	120min Mon-Sat
	747	Rouse Hill to Riverstone & Marsden Park			60min headway
	751	Blacktown to Rouse Hill via Colebee, Marsden Park & Schofields			15min headway

Base source: Busways https://www.busways.com.au, accessed 22 July 2019
Note 1: as the crow flies. Note, the walking route may be significantly longer due to limited infrastructure

3.7. Walking and Cycling Network

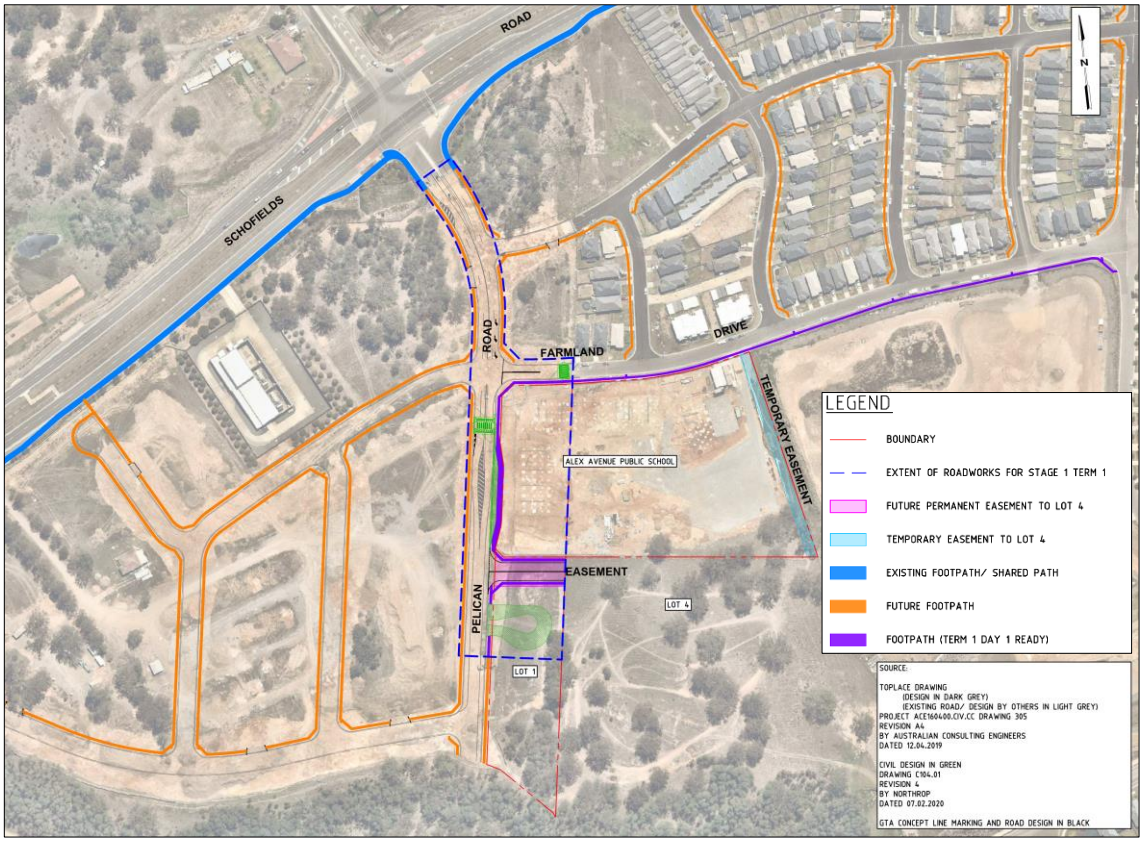
3.7.1. Walking

The existing nearby roads provide limited pedestrian and cycling facilities as the area is currently under development. Residential lots generally located to the east and north of the school site have been substantially developed. Farmland Drive currently terminates approximately 39 metres west of Hyde Street, and construction of Pelican Road has commenced recently.

Based on our review of road design drawings for the Construction Certification provided by Toplace Group, it is understood that a network of footpath is proposed, and forms part of the subdivision works.

This is presented in Figure 3.5, with greater details in Appendix E: Existing and Future Footpath Network.

Figure 3.5: Existing and future footpath network



Base map: NearMaps

Consultation with Blacktown City Council found that Footpaths in general are required on both sides of Collector Roads and as a minimum, on one side of local roads based on the table in Section 1.2 Road Hierarchy of the Blacktown City Council Path Paving Policy 2009 (Appendix to the *Blacktown City Council Engineering Guide for Development 2005*)

Timing of construction of footpaths in new residential subdivisions are typically triggered when the precinct is substantially developed (around 80%). It can be expected that a constructed and connected network of footpaths will be available within the subdivision connecting to the footpath along the south side of Farmland Drive, and Pelican Road frontages of the school.

3.7.2. Cycling

The Blacktown City Council 2016 Bike Plan (Bike Plan 2016) includes plans for extensive cycle routes that are expected to support active travel.

Future cycle routes are planned in the immediate vicinity, including along Farmland Drive, Pelican Road and Alex Avenue with these facilities able to connect with existing shared paths on the southern side of

Schofields Road, Jerralong Drive and Stanhope Road further south and Ridgeline Drive and Greenview Parade to the east.

The surrounding cycling infrastructure is shown in Figure 3.6.

Figure 3.6: Surrounding cycling network

Base image source: 2016 Bike Plan, Blacktown City Council

3.8. Crash Analysis

A review of crash history for the five year period (2014 to 2018) has been undertaken based on crash data available by the Centre for Road Safety, Transport for NSW) for the roads surrounding the site and is shown in Figure 3.7.

The following provides a summary of the crash history:

- a total of 16 crashes occurred within the area
- of all the recorded crashes, there were no fatalities, though eight were serious injuries with four moderate injuries and five being minor injuries.

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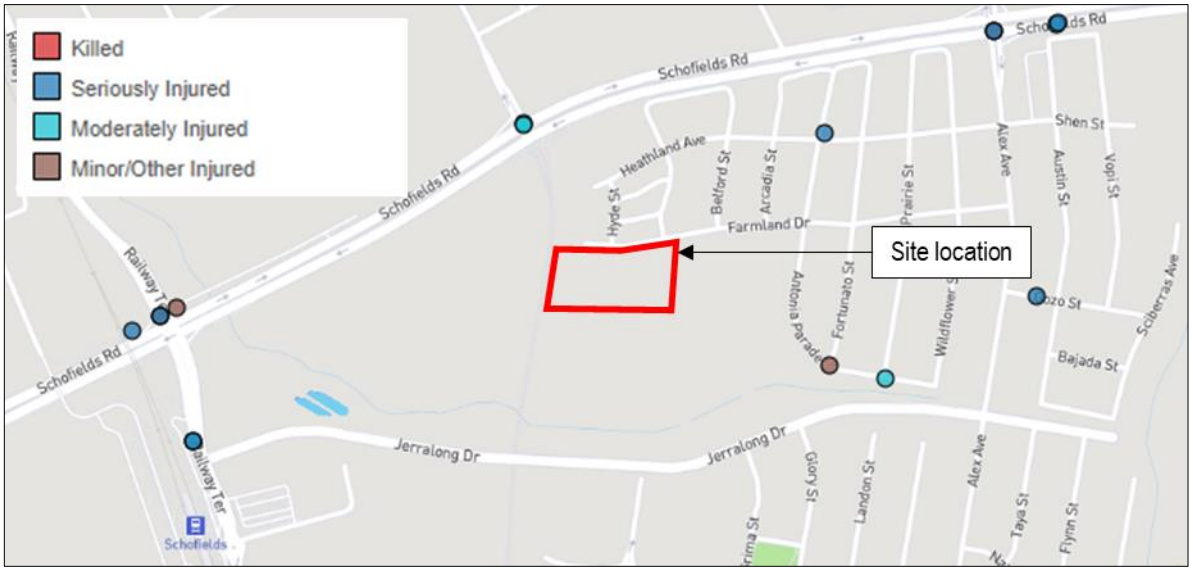
Figure 3.7: Crash map of the surrounding area



Source: Transport for NSW Crash and Casualty Statistics

4. DEVELOPMENT PROPOSAL

04

4.1. Overview

Alex Avenue Public School will be located on the corner of Farmlands Drive and the future Pelican Road, in Schofields. The school will cater for a student capacity of 1000 students, supported by 70 full-time staff and will be comprised of multiple buildings, joined by COLAs.

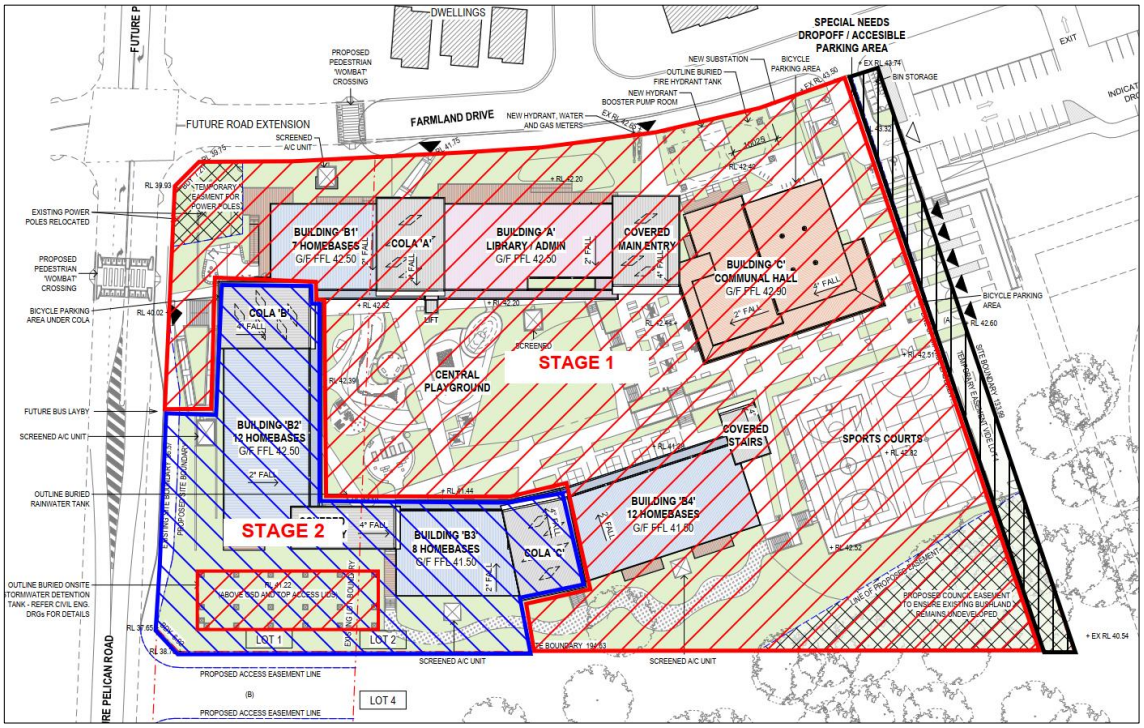
Block A will be a 2-storey library, administration and staff building.

Block B will comprise four 2-storey classroom buildings.

Block C will be the single storey assembly hall.

The proposed site plan, as drawn by GSA Architects, is presented in Figure 4.1. The full site plan can be found in Appendix A.

Figure 4.1: Proposed Site Plan

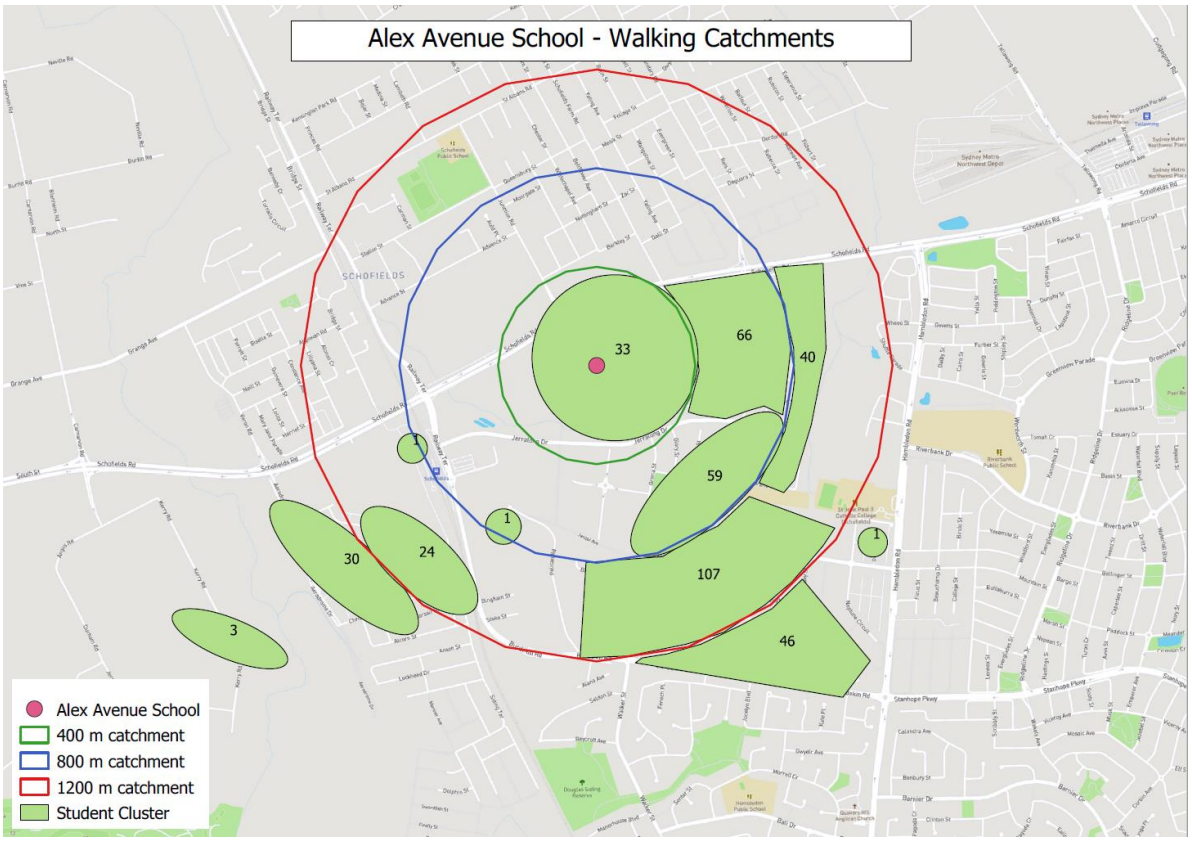


Source: Drawing AA-AR-1100 - Stages, revision 5, received from Richard Crookes, dated 08.04.2020

4.2. Catchment Area

Since the original Transport Impact Assessment and Environmental Impact Statement, School Infrastructure data available indicates that much of the student catchment is located to the east, south-east and west of the school.

Figure 4.2: Student Walking Catchments



4.3. School Hours of Operation

The general operating hours will be Monday – Friday from 8am-5pm. School bell times are to be finalised, however, are expected to be generally around 9am-3pm in line with most other primary schools. Additional out of school hours use of school facilities is outlined below[1].

- Hall: occasional evening use for performances, presentations, parent/ teacher nights
  - Until 10:00pm
- OOSH (out of school hours) care
  - Weekdays 6:30am-9:00am and 3:00pm-6:30pm
- Library: intended use by school only
  - Occasional weeknight evening use for presentations and parent/ teacher nights
- It is understood that DoE and Blacktown City Council have entered into joint use agreement for shared use of school facilities by the community and adjacent council park facilities located to the north of Reserve 885 by the school.

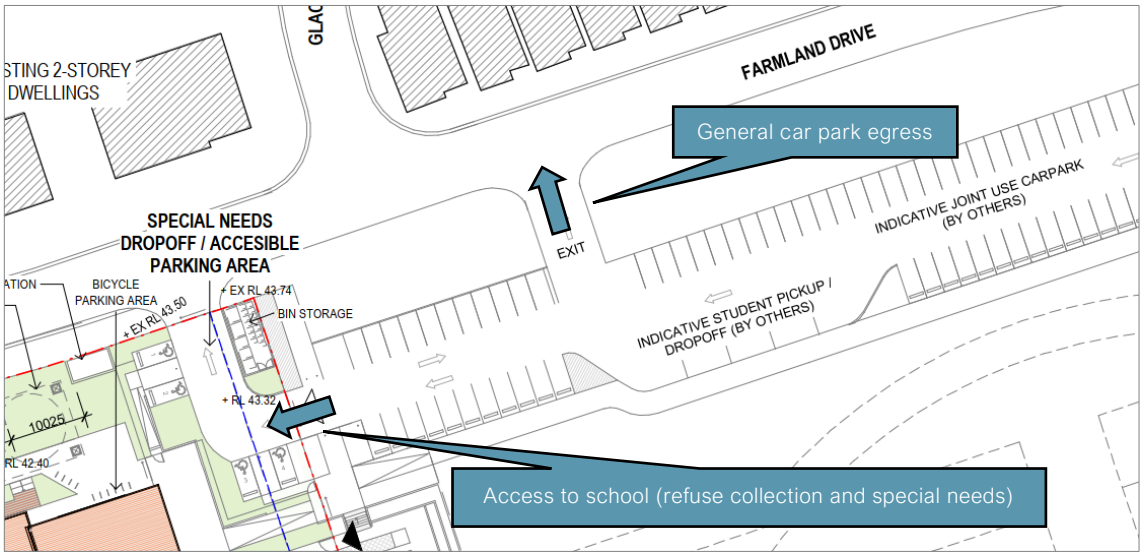
[1] Environmental Impact Statement, by Urbis, dated February 2019

4.4. Vehicle Access

4.4.1. General Access

There will generally be limited vehicular access into the school boundary. The adjoining Council car park to the east of the school will be connected to the school to facilitate access to the special needs drop-off area and the refuse collection area. A separate exit point, located external to the school boundary, will provide egress from the adjoining Council car park as illustrated in Figure 4.3.

Figure 4.3: Adjoining Council park car park



Source: Drawing AA-AR-1100, revision 5, by GSA Architects, dated 21.02.2020

4.4.2. Service Vehicle Access

Refuse collection vehicles will access from the adjoining council car park as indicated in Figure 4.3. Egress will be from the school boundary in the north east corner of the school site.

4.5. Car Parking

It is proposed for the Alex Avenue Public School parking provision to be shared through a Joint Use Strategy with Blacktown City Council.

The land immediately to the east of the school site is planned to be developed as a public park and sporting field. As part of this development, a 100-space car park is proposed to be constructed along the north of the park, fronting Farmland Drive. The usage of this car park is proposed to be shared between the school staff and the general public.

Details of the sharing arrangement and car park design is subject to future design development. Preliminary management recommendations and details of the parking provision are provided in Section 5.

At the time of preparation of this assessment, it is understood that DoE and Blacktown City Council have entered into joint use agreement associated with the car parking area located to the north of

Reserve 885. Reserve 885 caters for parking requirements associated with the school as per the Transport Impact Assessment Report.

Whilst it is understood that works associated with Reserve 885 are expected to be completed and ready for Term 1, Day 1 operations of the school, a contingency concept design has been prepared This contingency concept design is now available for implementation should there be a delay in the completion of the joint use car park. Refer to Appendix C: Contingent Car Park Design.

4.6. Pick-up and Drop-off

The pick-up/ drop-off area is also proposed to be provided within the Council park car parking area. Around 8 parallel bays (based on 50 metres of parallel parking) are proposed along the southern side of the car park, enabling direct access between the footpath and the vehicle without the need for students to traverse the trafficable portion of the car park.

This enhances student safety and facilitates a smoother pick-up/ drop-off operation.

Special needs parking will be accommodated within the school boundary in the form of 90-degree accessible bays. Four accessible bays will be provided for staff accessible parking and special needs pick-up/ drop-off. These four spaces are also bounded by gates along the northern and eastern boundary of the school, providing greater security during special needs students' pick-up/ drop-off and minimising risk of students entering the roadway.

Due to operational considerations, classrooms associated with special needs are currently being redesigned and will form part of the Stage 2 works, to be located closer to the special needs parking area and achieve improved operational outcomes.

Details of the parking provision and adequacy is provided in Section 5.

4.7. Contingent Car Park

At the time of preparation of this assessment, it is understood that DoE and Blacktown City Council have entered into joint use agreement associated with the car parking area located to the north of Reserve 885. Reserve 885 caters for parking requirements associated with the school as per the Transport Impact Assessment Report.

Whilst it is understood that works associated with Reserve 885 are expected to be completed and ready for Term 1, Day 1 operations of the school, a contingency concept design has been prepared This contingency concept design is now available for implementation should there be a delay in the completion of the joint use car park. Refer to Appendix C: Contingent Car Park Design.

The concept contingent car park consists of:

- 6 metres wide access, off-set 1 metre from the temporary easement providing access to Lot 4 via Farmland Drive
- Crossover designed in accordance with Blacktown City Council's Engineering Guide for Development 2005
- 25 parking spaces for staff parking, designed in accordance with Figure 2.2 of AS/NZS29890.1:2004 for a Class 2 Parking facility

- 5 parking spaces for pick-up / set-down, designed in accordance with Figure 2.5 of AS/NZS2890.1:2004
- An accessible parking space, designed in accordance with Clause 2.2.2 of AS/NZS2890.6:2009
- Bin storage area, which will be serviced by DoE's Private Waste Collection Contractors outside school operations hours located in the south-eastern corner of the temporary car park.

Details of the parking provision and adequacy is provided in Section 5.

4.8. Bus Facilities

A 30-metre (excluding taper distances) indented bus bay is proposed on Pelican Road following the construction of the new road link and will be used for the local school bus service once it is operational. The length of the bus bay accommodates up to two 14.5-metre long buses.

The length of the bus bay inhibits independent access and exit, however, is considered appropriate in this context as operation will be closely managed and users familiar with the schedule.

Taper distances and the bus bay have been designed with reference to Blacktown City Council Engineering Guide for Development 2005.

4.9. Pedestrian Facilities

Pedestrian access will primarily be provided along Farmland Drive, with a main pedestrian entry between Buildings A and C and a ramped entry further to the west. Additionally, an entry will be provided on Pelican Road, facilitating a connection between the proposed indented bus bay and the school.

Additional gates will be provided on the eastern boundary of the school, establishing access to the adjacent Council park, sporting fields, and car park.

4.10. Bicycle Facilities

Bicycle rails will be provided on site near building C. 28 rails will be provided as double-sided rails, accommodating a total of 56 bicycle spaces.

Details of the bicycle parking provision is provided in Section 5.

4.11. Loading Facilities

The bin storage will be located on the north-east corner of the site. Access for the refuse collection truck will be through the adjoining Council park car park, with exit directly to Farmland Drive through the school via the one-way internal roadway. The refuse collection vehicle will be able to drive forwards in and out of the site without the need to perform any reverse manoeuvres.

As outlined in Section 4.7, a contingent bin storage area, which will be serviced by DoE's Private Waste Collection Contractors outside school operations hours located in the south-eastern corner of the temporary car park. Waste collection within the contingent car park is expected to occur outside school hours to minimise any potential conflict with students. A swept path assessment has been completed and this demonstrates a 10.5m long garbage truck can access the waste collection point and circulate as required. Refer to Appendix C: Contingent Car Park Design for details.

Other loading and servicing needs can also be accommodated within this area as the area is otherwise unused aside from the accessible parking, which would see use only at certain times of the day.

Additionally, the gated accesses assist in restricting access to only authorised personnel.

4.12. Emergency Vehicle Access

A 6m Right of Way is proposed along the future alignment of Pelican Road. The easement will allow service access to the western side of the site before the Pelican Road works is completed.

Access by emergency vehicles is to be provided via the shared use sports field car park to the east of the site. The aisle on the western end of the car park allows vehicles to approach the School Hall building, and if necessary, can be used to access the main entry plaza or shared plaza. To maximise internal site access, the kerb should be designed to be mountable (around 100mm high) and a minimum vertical clearance of 4.5m should be maintained in this area.

4.13. Temporary Access Arrangements

As the timing of the Pelican Road extension may not coincide with commencement of the school, temporary access arrangements on Farmland Drive may occur to maintain access.

It is understood that this interim period would only apply to the first school year.

4.11.1 Farmland Drive Cul-de-sac

To facilitate vehicular turnaround, a cul-de-sac is proposed as a temporary measure to allow westbound vehicles to turnaround at the end of the current extent of Farmland Drive to head east. The number of school related vehicles expected to undertake this manoeuvre is not expected to be significant as the Council park car park allows exiting vehicles to turn right and vehicles exiting the special needs area can also turn right onto Farmland Drive.

Following construction of Pelican Road and the connection to Farmland Drive, this temporary cul-de-sac may be removed to provide vehicular and pedestrian connectivity to the west.

4.11.2 Parking Restrictions

To facilitate the operation of the Farmland Drive cul-de-sac, No Stopping restrictions would be required within the vicinity of the turning head to accommodate the u-turning movements. Initially, this may extend to both sides of Farmland Drive, west of Hyde Street, however, may be further refined in detailed design to determine the necessary extent.

4.14. Temporary Bus Turnaround Area

Pelican Road in its ultimate condition is a collector road that provide north-south connectivity between Schofields Road and Jerralong Drive.

The road works that form part of Toplace Group construction extend generally to the southern boundary of the DoE Lot 1 land. A bridge that connects Pelican Road and Jerralong Drive will be delivered by Blacktown City Council, with timing of works unknown.

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As a contingency, a concept design has been prepared to provide a temporary bus turnaround bay at Lot 1 DoE land to allow for the operation of a school bus on Term 1, Day 1. Refer to Appendix D: Pelican Road Temporary Bus Turnaround Facility for details.

The contingency bus turnaround area has been assessed using a 14.5m Long Rigid Bus and has received in principle support from Blacktown City Council, subject to confirmation of cross-fall associated with Lot 1.

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5. PARKING ASSESSMENT

05

5.1. Staff Parking

Reference is made to the *Blacktown City Council Growth Centre Precincts Development Control Plan (July 2018)* to determine the required level of parking as the *Blacktown Development Control Plan Schedule 1 Alex Avenue Precinct* document does not make specific reference to parking rates.

For primary and secondary schools, the parking requirement is:

- 1 space per staff member, plus
- 1 space per 100 students.

With provision for 1000 student capacity and 70 full-time staff, this equates to a required 80 car parking spaces.

This provision is proposed to be accommodated through a Joint Use Strategy with Blacktown City Council whereby 100 spaces will be provided within the Council park to the east of the site. This strategy allows for greater utilisation of the spaces as the school and Council park have complementary peak parking periods.

Parking from the school peaks during the school hours on weekdays with little to no use outside of these hours. For a typical park, the peak parking demand occurs on weekends with lesser demand on weekday evenings and generally minor demand throughout the day on weekdays. This enables more efficient utilisation of parking space and assists in minimising excessive parking provision.

Moreover, strict adherence to the DCP results in more parking spaces than full-time staff. Management of the utilisation of these spaces and preliminary management recommendations are outlined in Section 5.6.

5.2. Contingent Car Park Requirement for Term 1, Day 1 Operation

For Term 1, Day 1 operations, it is understood that up to 600 students will be enrolled at Alex Avenue Public School. The School Principal has confirmed that 22 staff are expected as part of Term 1, Day 1 operations.

As outlined in Section 4.7 of this report, a contingent car park is proposed should works associated with the joint use car park at Reserve 885 be delayed and not available for Term 1, Day 1 operations.

The level of parking provided has been assessed against Table 4-11 of the *Blacktown City Council Growth Centre Precincts Development Control Plan (July 2018)* and Clause 6.3 of the Blacktown DCP 2015, which sets parking requirements for primary and secondary schools as:

- 1 space per staff member; plus
- 1 space per 100 students.

Applying the DCP rates, for Term 1, Day 1 operation requires a total of 28 parking space. A total of 31 spaces have been included in the concept temporary car park design, exceeding the minimum parking requirements outlined in the DCP.

Upon further considerations of the operational arrangement associated with special needs, the special needs component of the school has been deferred to Stage 2 works, where a separate pick-up / set-down arrangement is being prepared and will form part of the Stage 2 proposal.

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5.3. Permanent Parent Parking

Parent parking will be provided in the form of around 8 parallel pick-up/ drop-off spaces (based on 50 metre long parallel parking area) located in the Council park car park to the east of the school.

To assess the adequacy of the pick-up/ drop-off provision, the following assumptions have been made by Bitzios in the TIA report[2], and are adopted in this report.

5.3.1. Assumptions

- For conservativeness, all parent vehicles are presumed to use the pick-up/ drop-off bays (328 vehicles in the AM peak and 270 vehicles in the PM peak, refer to last column of Table 6.4)
- Student attendance is at 100%
- The drop-off bay can service a total of eight vehicles, whilst other vehicles queue within the car park
- The service time for each parking bay is assumed to be 30 seconds
    - The corresponding service rate is thus two vehicles per minute (equating to 16 vehicles per minute across the 8 bays)
    - As a sensitivity analysis, longer wait times (i.e. service times) are also assessed, including 60 seconds and 120 seconds
- Trips are normally distributed (i.e. standard bell curve) in the AM peak period between 7:45AM and 9:30AM, peaking between 8:30AM and 8:45AM
- Trips reflect a half-normal distribution (i.e. right half of the standard bell curve) in the PM peak period between 3:00PM and 4:00PM, with utilisation of the drop off bay commencing at 3:00PM.

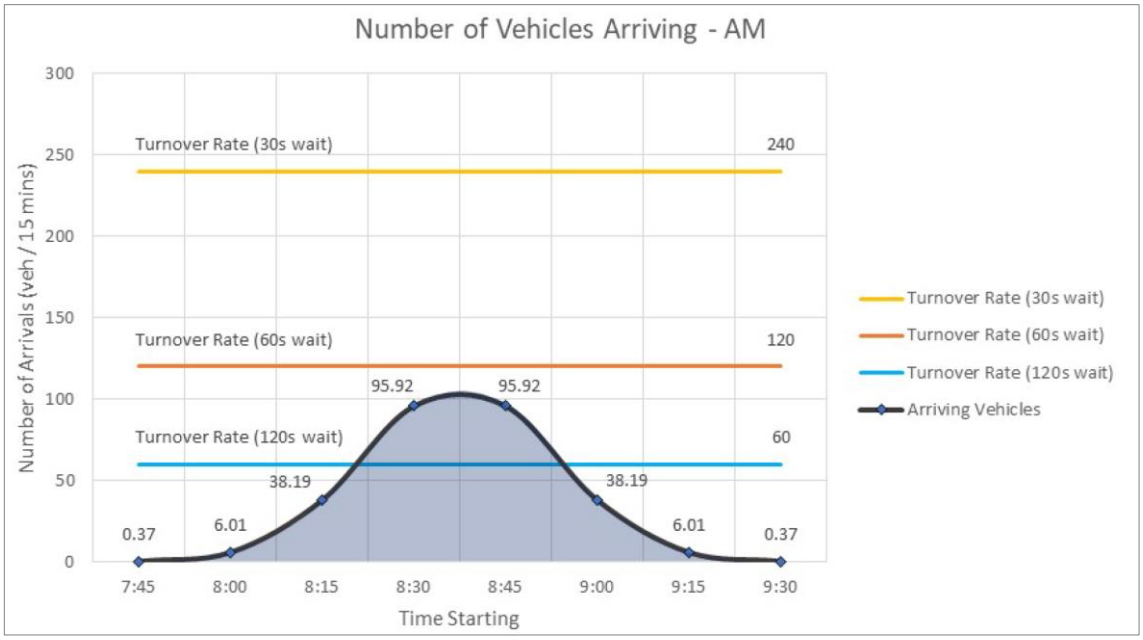
5.3.2. Modelling

Based on the above assumptions, the following models for the AM and PM peak arrivals are presented. Figures and summary have been adopted from the Bitzios TIA.

The horizontal lines represent the turnover or the service rate per 15 minutes and the coloured region represents the arrival rate of the vehicles. When the service rate (horizontal lines) exceeds the arrival rate (coloured region), this means that the pick-up/ drop-off bays can accommodate the anticipated arrival rate, resulting in no queuing.

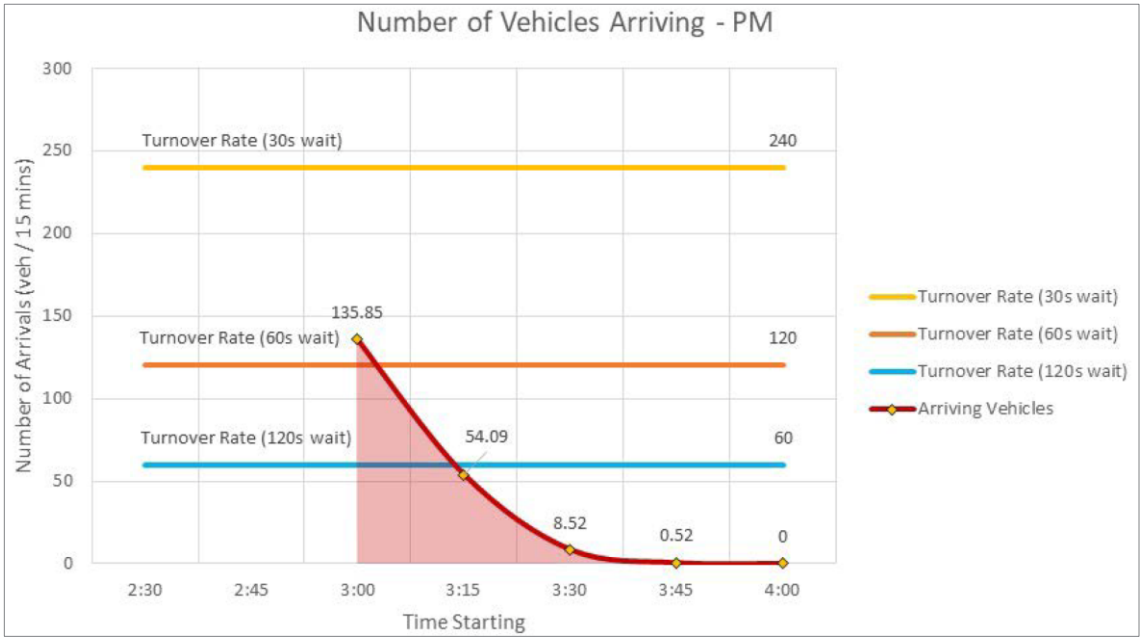
[2] Bitzios Traffic Impact Assessment

Figure 5.1: AM Peak Arrivals



Source: Bitzios Traffic Impact Assessment

Figure 5.2: PM Peak Arrivals



Source: Bitzios Traffic Impact Assessment

For the AM peak, the peak arrivals is estimated to be around 100 vehicles from 8:30am-8:45am, equating to an arrival rate of around 7 vehicles per minute. For the PM peak, the peak arrivals is estimated to be 136 vehicles from 3:00pm-3:15pm, equating to an arrival rate of around 9 vehicles per minute.

The following summaries of the arrival rate (above) against the service rate (and thus the utilisation ratio) is presented in Table 5.1.

Table 5.1: Drop-Off Bays AM and PM Summary and Sensitivity Test

Peak Period	Wait time (sec)	Service Rate (veh/min)	Arrival Rate (veh/min)	Utilisation Ratio (arrival rate ÷ service rate)
AM – base assumption	30	16	7	0.44
AM Sensitivity test 1	60	8	7	0.88
AM Sensitivity test 2	120	4	7	1.75
PM – base assumption	30	16	9	0.56
PM Sensitivity test 1	60	8	9	1.13
PM Sensitivity test 2	120	4	9	2.25

When the utilisation ratio is less than one, it can be concluded that the provided pick-up/ drop-off capacity can accommodate the expected arrival rate.

Under the base assumption of an average 30 second wait time per vehicle, the utilisation ratio is 0.44 for the AM peak and 0.56 in the PM peak. Both are comfortably below 1.00 and thus the provided pick-up/ drop-off bays can accommodate the expected arrival rate without queuing.

Under the sensitivity testing, for an average 60 second wait time per vehicle, the utilisation ratio is 0.88 for the AM peak and 1.13 in the PM peak. Thus, even with double the wait time per vehicle, the pick-up/ drop-off bays can accommodate the arrivals without queuing in the AM peak. In the PM peak, minor queuing would be expected for the first three minutes, after which queues will begin to reduce as the arrival rate decreases.

For an average of 120 second wait time per vehicle, queuing would be expected during both peaks with utilisation ratios of 1.75 and 2.25 for the AM and PM peaks, respectively.

5.3.3. Mitigation

As seen in Section 5.3.2, the provided level of pick-up/ drop-off facilities can accommodate the parent vehicle demand under the base scenario which already encompasses conservative assumptions (all parents use the pick-up/ drop-off bays and 100% student attendance is adopted). Further to this, the following factors would increase the effective capacity of the bays through an increase in service rate or decrease in arrival rate:

- OOSH (Out of School Hours) activities
    - OOSH would reduce the overall number of arrivals during the peak period as students arrive/ depart over a wider timeframe
    - Examples of such activities include before/ after school care and academic or sporting activities

- Alternative pick-up/ drop-off locations
    - It is likely that a proportion of parents/ guardians would choose alternative pick-up/ drop-off locations due to convenience or directionality of accompanying destinations
    - This would reduce the demand on the formal pick-up/ drop-off area.
- Reduction in the number of trips due to lower student attendance
- Staff management/ marshalling can assist in monitoring/ reducing wait times
- Staggered release in the afternoon
    - Staggering the release times by year group can assist by dampening the arrival peak in the PM peak.

5.4. Accessible Parking

The *Blacktown DCP* refers to the *Building Code of Australia* (BCA) in relation to the required level of accessible parking (Part A of the DCP, Clause 6.4.8).

The BCA requires, for a school (class 9b building), that 1 space for every 100 car parking spaces or part thereof be provided as accessible parking (Section D3.5of NCC 2016 Building Code of Australia – Volume One).

With a staff parking provision requirement of 80 spaces, this equates to one accessible space.

The school will provide two accessible spaces, exceeding the minimum required provision.

Additionally, another two accessible spaces will be provided for special needs students. This provision may be revised following greater detail regarding special needs student enrolments at a later stage.

5.5. Bicycle Parking

No specific recommendation is made as to the required bicycle parking provision in the following documents:

- *Blacktown Development Control Plan Schedule 1 Alex Avenue Precinct*
- *Blacktown City Council Growth Centre Precincts Development Control Plan (July 2018)*
- *Blacktown Development Control Plan 2015.*

Therefore, reference is made to *Planning Guidelines for Walking and Cycling* (NSW Government 2004).

The Guideline recommends a provision, for primary schools, of 3-5% for staff and 5-10% for visitor (Table 1 of the Guidelines). For the purposes of this assessment, visitor is taken to be students in Years 4, 5 and 6 (based on consultation undertaken with the School Principal, the minimum age of students that can independently ride to school are 10 years old and above) which represents around 3/7th of the student population (assume balanced student numbers across year groups).

Thus, based on 70 staff and 429 Year 4-6 students, the recommended provision is 24-47 spaces[3].

56 bicycle spaces are proposed, exceeding the minimum recommended provision.

[3] Lower bound: 3%*70+5%*429. Upper bound 5%*70+10%*429

The increased provision aligns with strategy to encourage greater sustainable mode share and is expected to see greater use as the cycling infrastructure in the area develops.

5.6. Joint Use Strategy Parking Management Recommendations

The following recommendations are made to assist in the management of shared parking space use between the school and users of the Council park. These recommendations are preliminary only and intended as a starting point for further development as design development for the car park progresses.

5.6.1. Space Allocation

A total of 100 parking spaces is proposed to be provided in the shared car park. Initially, to satisfy the DCP parking requirements for the school, 80 of these spaces should be dedicated to staff members during general operating hours of the school. Signage and/ or line marking should be provided to delineate this use.

It is noted that provision in strict compliance with the DCP results in a high parking provision (with more spaces than full-time staff), Once the school commences, it is likely that school utilisation of parking will be lower than the 80 spaces allocated. If this is the case, there is opportunity to re-allocate parking space usage for public use.

5.6.2. Management During School Hours

During peak pick-up/ drop-off periods it is recommended for staff members to oversee the pick-up/ drop-off operation of the parallel parking spaces to ensure smooth operation and traffic flow through the drop-off bays.

The other remaining 20 90-degree parking spaces in the car park will be available for public use and will not require management from the school.

5.6.3. Management Outside of School Hours

Outside of school operational hours, all parking spaces should revert to public usage. This can be incorporated via timed parking restrictions as identified by Blacktown City Council.

5.6.4. Events

Due to joint use of the car park between the school and the park/ sporting fields there may be overlap in parking demand between the school and park users. Generally, this will be minimal as the majority of sporting events occur on weekends or weekday evenings with more minor events during school hours.

If events are proposed during school hours, coordination between the school administration, the event coordinator, and Blacktown City Council should be sought to manage equitable use of the car park. This should be done on a case-by-case basis with the projected size and duration of the event informing the required parking provisions.

5.6.5. Security and Amenity

The shared use of the car park effectively acts to expand the borders of the area traversed by the primary school students.

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As such, all care should be taken to ensure the security and amenity of the car park in line with Crime Prevention Through Environmental Design (CTPED) principles. Some of the steps to take include:

- Enhancing the natural surveillance of the area. Landscaping within and around the car park should be restricted to low shrubs and flower beds to ensure that natural sight lines are maintained. This includes visibility from the nearby school core facilities, shared plaza space and the Council playing fields.
- The installation of lighting within the car park to ensure maximum visibility during low-light conditions. While relevant throughout the entire car park, this should particularly focus on the areas near the drop-off / pick-up bay, refuse bin enclosure, bicycle parking space, and the entry and exits on Farmland Drive. This improves visibility and hence safety of pedestrians during evening out of school hours activities (weekdays 3:00PM to 6:30PM) and any shared usage of school facilities (school hall, basketball courts, etc).
- Access control should be highlighted and made clear to all visitors to the car park, in the form of signage and linemarking delineating staff allocated spaces and school drop-off / pick-up bay. The bin enclosure and bicycle parking areas should also be visibly separate from the public car park space (with additional security measures such as locking gates to prevent unauthorised access to secure areas).
- Upgrades, cleaning and maintenance of the car park should be undertaken as necessary to ensure amenity and hygiene of the space. Responsibility for any such works should be identified with Blacktown City Council under the finalised parking management scheme.

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6. TRAFFIC ASSESSMENT

06

6.1. Mode Share

6.1.1. Student Mode Share

As Alex Avenue Public School will be a new school, there is not currently any data to inform the mode share. In lieu of this, reference is made to *Trip Generation Surveys, Schools Analysis Report* (2014) by GTA which surveyed the mode share for 22 schools across Sydney.

The report found that, for primary school students, most trips were generally split between car and walking, with minor amounts of travel via bus.

The average statistics for primary schools within the Sydney Metropolitan area is reproduced in Table 6.1.

Table 6.1: Primary School Average Mode Split Survey (Metropolitan Sydney)

Period	Car	Bus	Walk
AM Peak	50%	2%	48%
PM Peak	40%	2%	58%

As student catchment data has been made available and analysed as part of the Green Travel Plan prepared by GTA Consultants, target mode share adopted for the site is reproduced in Table 6.3.

Table 6.2:Target mode shares for the school

Mode	Students	Staff
Private vehicle	65%	60%
Public transport	10%	35%
Walking or cycling	25%	5%

As seen in Table 6.1, the split between car and walking is relatively even in the AM peak with a 10 per cent shift towards walking in the PM peak. The identified target mode share suggests an improved mode shift of between 7 to 17 per cent being achievable across the PM and AM peaks respectively. This is naturally attributed to the fact that the school PM peak is typically around two hours before the commuter peak, hence a reduced likelihood of multi-destination car trips and/ or parent availability to pick up children via car.

It is expected that the target mode share for Alex Avenue Public School being achievable via the implementation of actions identified in the Green Travel Plan (after excluding the bus mode) as the school is largely surrounded by residential land use (within the school catchment and within a reasonable walking distance) and the area generally has limited public transport options. Following the construction of Pelican Road and subsequently, the indented bus bay, it is anticipated that the car mode share will drop, and the bus mode share will increase – resulting in a reduced traffic impact from that assessed in this report.

6.1.2. Staff Mode Share

To determine the staff mode share, data from the 2016 Census was accessed via the Australian Bureau of Statistics (ABS) TableBuilder. The search results have been narrowed down to those working in primary education within the Blacktown Local Government Area. The results are summarised in Table 6.3.

Table 6.3: Method of Travel to Work (Primary Education, Blacktown LGA)

Method of travel	Percentage
Vehicle	86.5%
Public Transport	2.2%
Active Transport	1.8%
Worked at home/ Did not go to work	9.3%

For the purposes of this assessment, the critical case is adopted whereby it is assumed that all staff go to school (i.e. none work from home) and that all staff attend school. Thus a car mode share of 96 per cent is adopted, with 2 per cent travelling via public transport and 2 per cent travelling via active transport (walking or cycling).

Further, it is assumed that this mode split is consistent for the AM and PM periods.

6.2. Traffic Generation

To determine the traffic generation, reference is made to *Trip Generation Surveys, Schools Analysis Report* (2014) by GTA.

The average trip generation rate for the surveyed schools within the Sydney Metropolitan area is selected as the most appropriate rate and is reproduced in Table 6.4.

Table 6.4: Trip Generation Summary

Trip Generation Rate		Total Trip Generation	Inbound Vehicle Split	Outbound Vehicle Split
AM Peak			**51%**	**49%**
Overall trips per student	1.59	1590	-	-
Vehicle trips per student	0.67	670	342	328
PM Peak			**49%**	**51%**
Overall trips per student	1.80	1800	-	
Vehicle trips per student	0.53	530	260	270

The above vehicle trips per student rate captures discounts in the rate due to multiple occupants in the same vehicle and a proportion of trips occurring outside the peak period.

The inbound and outbound vehicle split is also close to 50/ 50 for both periods, as expected, as most trips occur as a two-way trip, with parent vehicles dropping students off before immediately departing in the morning and vice-versa in the afternoon. This is captured in the traffic modelling with the assumption that both the inbound and outbound trip occur within the same peak hour.

6.3. Distribution and Assignment

The trip distribution and assignment for the school has been largely adopted from the Bitzios TIA. In this reference document, the following factors influenced the distribution:

- Primary education facilities in the surrounding area shaping the likely catchment for Alex Avenue Public School, resulting in:

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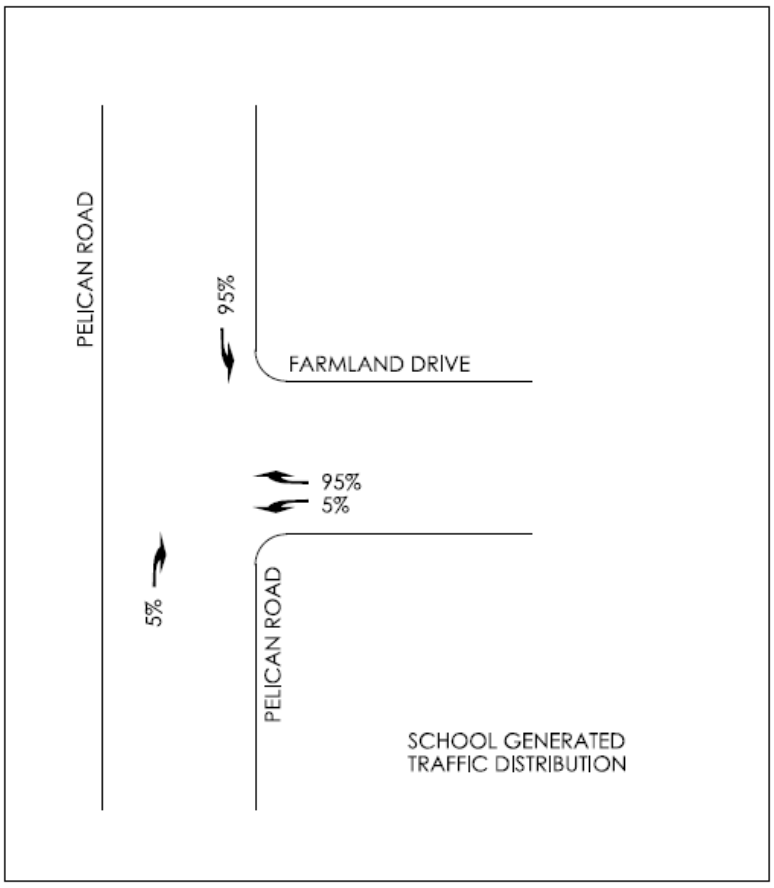
  - 78 per cent of trips within the Alex Avenue Precinct
  - 20 per cent of trips passing the Schofields Road / Junction Road / Pelican Road intersection
  - 2 per cent of trips to/ from Schofields Station.
- Directionality of travel based on place of employment (Journey to Work data) resulting in the following distribution to/ from the following Local Government Areas:
  - Blacktown 31 per cent
  - The Hills Shire 14 per cent
  - Sydney 11 per cent
  - Parramatta 10 per cent
  - Hawkesbury 5 per cent
  - Penrith 3 per cent
  - Ryde 3 per cent
  - Cumberland 3 per cent
  - Other 20 per cent (comprised of other LGAs with distribution less than 3 per cent).
- Location and density of nearby residential areas
  - Smaller, higher-density residential zones to the west and south-west via Pelican Road
  - Greater, smaller-density residential zones to the east via Farmland Drive
  - Inbound and outbound traffic assumed equal between these two main catchments.

The trip distribution for Pelican Road and Farmland Drive is summarised in Figure 6.1, with the volumes outlined in Figure 6.2. The majority of traffic heading to/ from Pelican Road is assumed to travel north as the southern component of Pelican Road is expected to be constructed at a later date, post-completion of the school.

Figure 6.1: School-related Traffic Distribution on Farmland Drive



6.4. Operational Assumptions

To determine the base traffic volumes, data was extracted from the Bitzios TIA which referred to Sydney Strategic Traffic Model (SSTM) for the study area for the model years 2016 and 2026. For the purposes of this assessment, the 2026-year model is used as the base, with the second model adding the school development traffic on top of this. This was done as the 2016-year model is limited due to a lack of road infrastructure and development at that time. Using 2026 as a base model year is conservative as the school is planned to open in 2021.

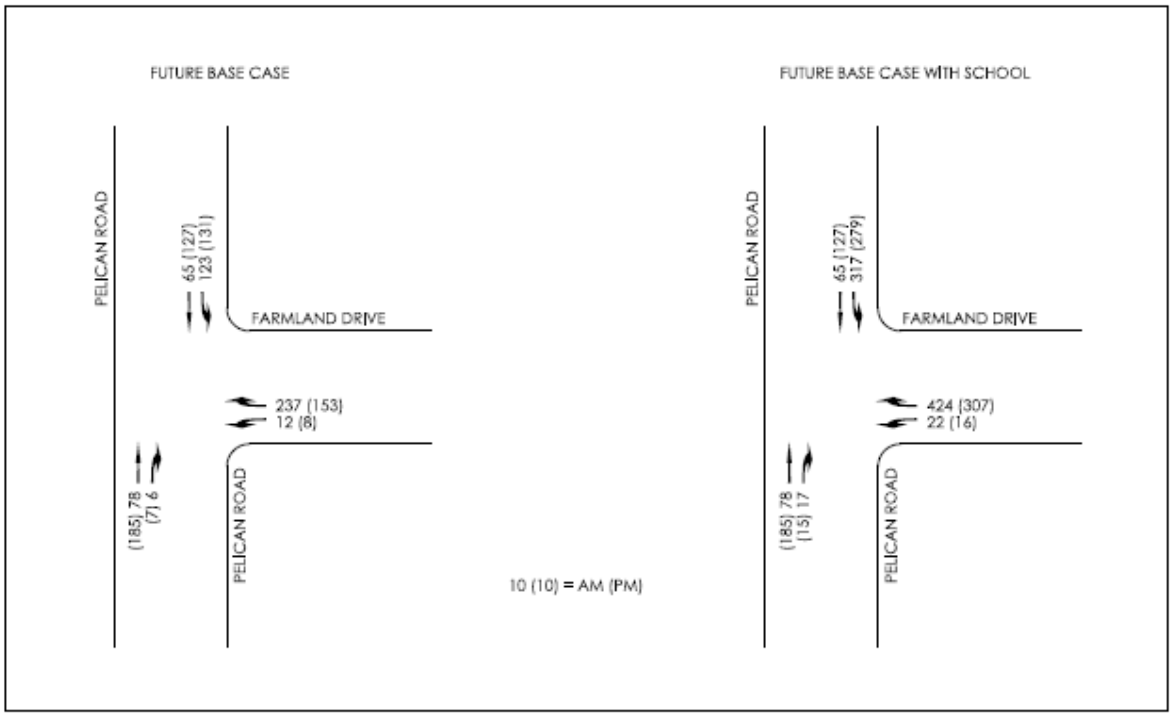
Additionally, the following assumptions were also made:

- Farmland Drive was not present as a link in the SSTM. In consideration of the road hierarchies within the Alex Avenue Precinct, volumes on Jerralong Drive are used as a proxy
    - It is noted that Jerralong Drive is classified a major road (compared to Farmland Drive which is classified as a local road)
    - Farmland Drive also has comparatively lesser connectivity whereas Jerralong Drive connects to Railway Terrace and services Schofields Train Station
    - Hence volumes on Jerralong Drive is appropriate as a conservative proxy for Farmland Drive.

- The intersection of Pelican Road/ Farmland Drive is expected to operate as a T-intersection in the future case as development to the west of Pelican Road isn't expected to be complete within the next five years.
- Volumes for the Pelican Road/ Farmland Drive intersection is interpolated from the SSTM's model of the intersection of Schofields Road and Pelican Road, as no other development or traffic generating land uses exist between the two intersections.
- Traffic towards the southern section of Pelican Road is expected to be nominal with minimal development to the west or south of the intersection and the connection with Jerralong Drive not expected to be complete within the near future either. As such, a 95/ 5 per cent split is adopted for traffic exiting Farmland Drive onto Pelican Road with a majority heading north.
- A conservatively high traffic volume is retained for the through traffic on Pelican Road as adopted in the Bitzios report and as interpolated from the intersection of Schofields Road and Pelican Road.
- A nominal number of vehicles (40) turning into (during the PM peak) and out of (during the AM peak) Glacier Street towards Farmland Drive was added on top of this traffic, based on approximate number of residential properties in the area.

The traffic volume of the intersection of Pelican Road and Farmland Drive is shown in Figure 6.2.

Figure 6.2: Traffic volume of Pelican Road/ Farmland Drive (AM and PM peaks)



6.5. Traffic Impact

The commonly used measure of intersection performance, as defined by TfNSW, is vehicle delay. SIDRA INTERSECTION determines the average delay that vehicles encounter and provides a measure of the level of service. Table 6.5 shows the criteria that SIDRA INTERSECTION adopts in assessing the level of service

Table 6.5: SIDRA INTERSECTION level-of-service criteria

Level of Service (LOS)	Average Delay per vehicle (secs/veh)	Traffic Signals, Roundabout	Give Way & Stop Sign
A	Less than 14	Good operation	Good operation
B	15 to 28	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
C	29 to 42	Satisfactory	Satisfactory, but accident study required
D	43 to 56	Near capacity	Near capacity, accident study required
E	57 to 70	At capacity, at signals incidents will cause excessive delays	At capacity, requires other control mode
F	Greater than 70	Extra capacity required	Extreme delay, major treatment required

Source: Table 14.3 of RMS Traffic Modelling Guidelines (2013)

The key local area intersection to be considered is the intersection of Pelican Road and Farmland Drive. The intersection has been assessed using SIDRA with both future base case scenario as well as the inclusion of school traffic. A summary of the operation of the key intersections is included in Table 6.6 and Table 6.7 with full results presented in Appendix B of this report.

Table 6.6: Future base case operating conditions

Intersection	Leg	Degree of Saturation (DOS)	Average Delay (sec)	95th Percentile Queue (m)	Level of Service (LOS)
Pelican Road/ Farmland Drive AM	South	0.04	0	0	A
	East	0.29	5	10	A
	North	0.11	2	0	A
Pelican Road/ Farmland Drive PM	South	0.10	0	0	A
	East	0.23	7	7	A
	North	0.15	2	0	A

Table 6.7: Future case with school operating conditions

Intersection	Leg	Degree of Saturation (DOS)	Average Delay (sec)	95th Percentile Queue (m)	Level of Service (LOS)
Pelican Road/ Farmland Drive AM	South	0.04	1	1	A
	East	0.59	9	39	A
	North	0.22	3	0	A
Pelican Road/ Farmland Drive PM	South	0.10	0	0	A
	East	0.53	11	27	A
	North	0.24	2	0	A

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Table 6.6 and Table 6.7 indicate that the Pelican Road/ Farmland Drive intersection would operate well in the base scenario (2026 model year) and the development scenario (2026 plus school development traffic). The 95th percentile queue does not exceed 39 metres (around five to six vehicles) in the development scenario and all approaches maintain a Level of Service A.

As such, traffic associated with the proposed development is expected to be adequately accommodated in the local road network near the site.

Bitzios has also previously conducted intersection analysis of the Schofields Road/ Junction Road/ Pelican Road intersection. The purpose of the analysis was to determine the impact of the proposed development traffic on the intersection, particularly on Schofields Road. Using similar assumptions as the ones outlined in this report, the analysis was conducted for the morning and afternoon school peaks. It should be noted that as the intersection is yet to be fully developed, the final intersection layout, signal phasing and timing were assumed based on typical practice. Therefore, the model represents an approximation of the expected signal performance and would be impacted upon any deviations from those assumptions.

Signal phasing was determined via the SIDRA Optimal Cycle Time (Minimum Delay) program, which iteratively determines the best-performing cycle time for the intersection in isolation, resulting in an 100-second cycle time during the AM peak and an 105-second cycle time during the PM peak.

The SIDRA intersection layout as prepared by Btizios is shown below in Figure 6.3.

Figure 6.3: Schofields Road/ Junction Road/ Pelican Road intersection layout

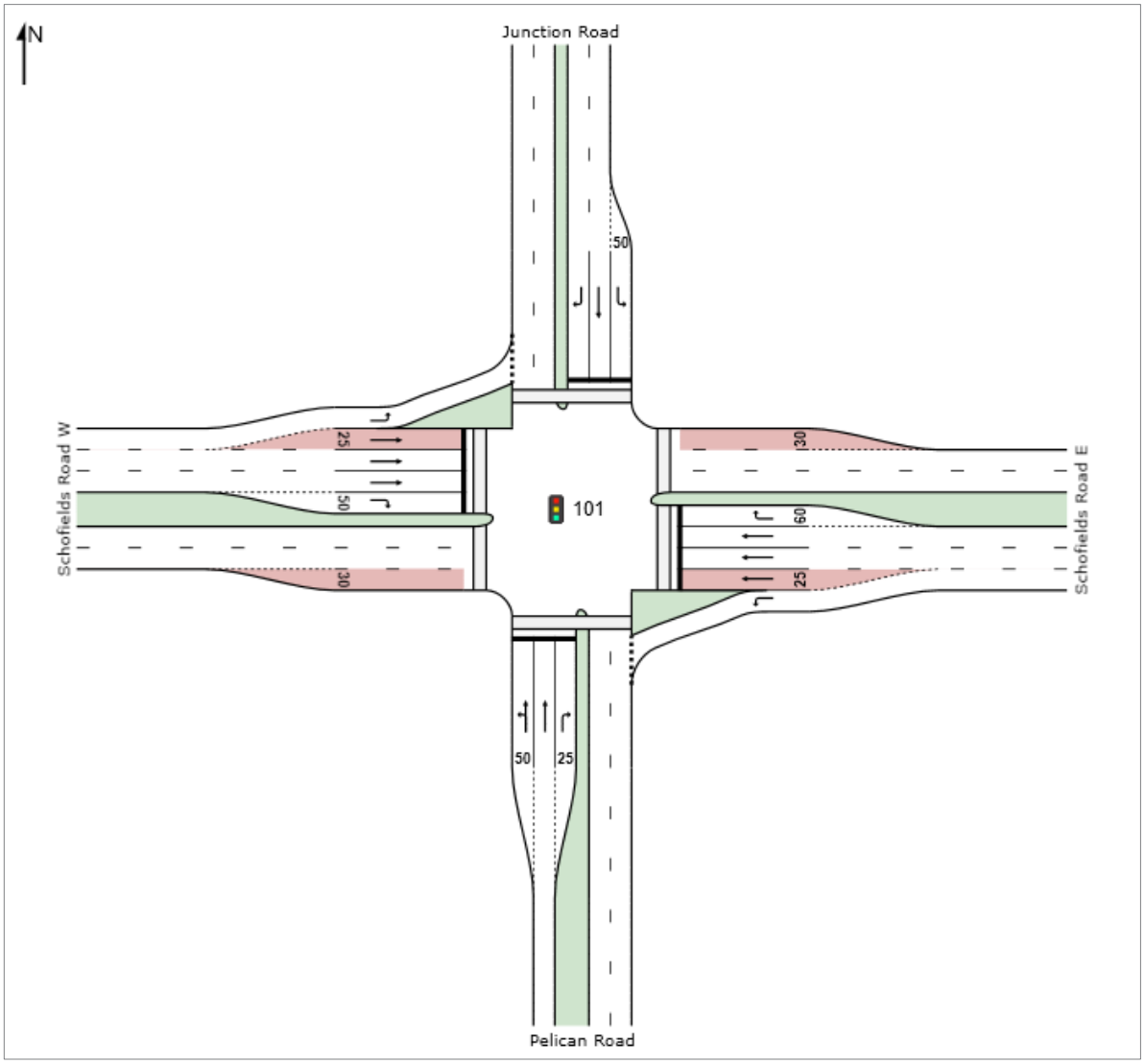


Table 6.8 presents the average delay, Degree of Saturation (DOS) and Level of Service (LOS) of each approach of the intersection with and without the additional proposed school trips, projected for the year 2026.

Table 6.8: SIDRA results Schofields Road/ Junction Road/ Pelican Road

Peak Period	Leg	2026 Without School Trips				2026 With School Trips			
		Degree of Saturation (DOS)	Delay (sec)	95th Percentile Queue (m)	Level of Service (LOS)	Degree of Saturation (DOS)	Delay (sec)	95th Percentile Queue (m)	Level of Service (LOS)
Weekday AM	South	0.516	45.0	64.5	D	0.544	43.0	68.0	D
	East	0.793	23.6	212.9	B	0.779	24.7	215.4	B
	North	0.485	46.6	48.0	D	0.687	45.1	44.9	D

Peak Period	Leg	2026 Without School Trips				2026 With School Trips			
		Degree of Saturation (DOS)	Delay (sec)	95th Percentile Queue (m)	Level of Service (LOS)	Degree of Saturation (DOS)	Delay (sec)	95th Percentile Queue (m)	Level of Service (LOS)
	West	0.719	21.8	191.9	B	0.767	23.2	193.3	B
Weekday PM	South	0.516	47.2	77.4	D	0.600	49.5	95.1	D
	East	0.836	32.1	282.8	C	0.836	32.1	282.8	C
	North	0.608	46.1	41.0	D	0.768	47.9	69.7	D
	West	0.762	25.3	217.2	B	0.783	26.6	222.3	C

The analysis indicated similar impacts on the intersection during the AM and PM peak periods between the base model and the model with the additional school development traffic, with overall delay increasing by around one second. Level-of-service is largely maintained at base levels.

For this assessment, the school development traffic was assessed against the intersection during the network PM period. The afternoon peak period for the school (2:30pm – 3:30pm) is unlikely to coincide with the commuter peak (4:30pm – 5:30pm) – however, doing so provides an assessment of the worst-case scenario.

The results of the Schofields Road/ Junction Road/ Pelican Road intersection analysis demonstrates that there is minimal traffic impact caused by the additional trips generated by the proposed school development. The existing (and future upgraded) road network should hence be capable of accommodating the new development without significantly impacting traffic operations.

7. PUBLIC AND ACTIVE MODE TRANSPORT ASSESSMENT

07

7.1. Pedestrian Access

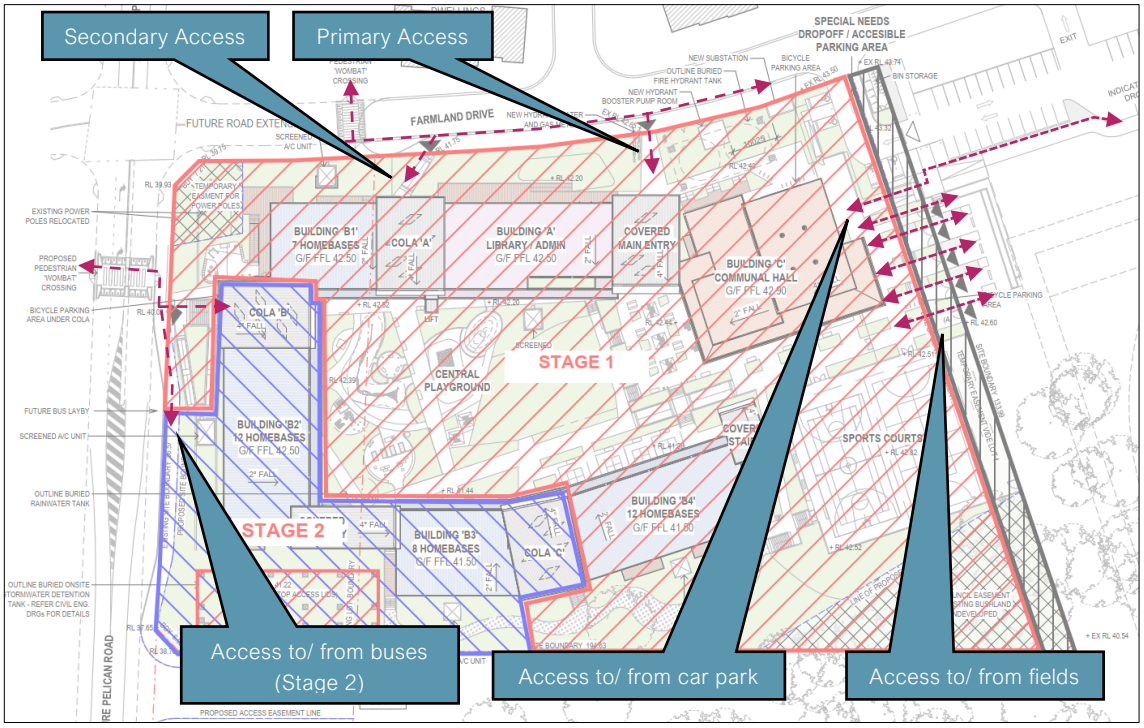
7.1.1. Access

For pedestrian amenity, multiple access points are provided into the school. These are:

- Farmland Drive access 1
  - Main pedestrian entry which leads into the covered area between Buildings A and C
- Farmland Drive access 2
  - Secondary ramped entry which leads into the covered area between Buildings A and B1
- Pelican Road access
  - Future entry to be constructed following establishment of the Pelican Road link. Provides both stairs and a ramp for accessible access. This will be the main access point connecting to the indented bus bay
  - Entry leads to the COLA between Buildings B1 and B2
- Sports fields
  - Additionally, five gates are provided on the eastern boundary, linking the school to the adjacent sports fields/ park – facilitating access during events such as carnivals
- Car park
  - Ramps to the north of the sports fields gates will be provided to connect the car park to the school and allow students to traverse between the two without the need to cross any live traffic areas

These accesses and main pedestrian routes are highlighted in Figure 7.1.

Figure 7.1: Pedestrian Access (in blue) and Routes (in pink)



Source: Drawing AA-AR-1100 - Stages, revision 5, received from Richard Crookes, dated 08.04.2020

7.1.2. Crossings

A raised profile pedestrian crossing (i.e. wombat crossing) will be constructed on Farmland Drive to provide a formalised crossing point to the north, and on Pelican Road to provide a formalised crossing to the west It is understood that both crossings have received in principal approval from Blacktown City Council and will be constructed upon extension of Farmland Drive into the future Pelican Road, and completion of construction of Pelican Road.

7.1.3. External

There is currently limited pedestrian infrastructure in the area as it is a greenfield site. As part of the school development, pedestrian footpaths along the school frontages along Farmland Drive and Pelican Road will be developed to provide an appropriate level of pedestrian amenity.

It is understood that footpaths along the south side of Farmland Drive, between Antonia Parade and the school forms part of Reserve 885 works undertaken by Blacktown City Council.

As the area develops, it is expected that pedestrian infrastructure will be further developed to create a more cohesive pedestrian framework in the neighbourhood and encourage greater active travel mode share.

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7.2. Cyclist Access

Similarly, cyclist accessibility to the school is limited due to a lack of pedestrian footpath and shared path infrastructure. NSW Road Rules allow for children under the age of 16 to ride on the footpath. Thus, as pedestrian infrastructure develops in the area, an increase in cycling patronage is anticipated allowing students to travel to school via separated pathways (to vehicles) and through formalised crossing points.

7.3. Public Transport Access

There is currently limited public transport access with the Tallawong Metro Station located 2.5 kilometres to the north-east and Schofields Station located around 800 metres to the south-west. The nearest bus stop is on Alex Avenue, south of Gozo Street, some 600 metres away (with services running every 30 minutes). As such, there is expected to be minor public transport uptake by staff.

Once Pelican Road is developed and the indented bus bay built, there is expected to be significant uplift in bus travel mode share for students.

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8. PRELIMINARY CONSTRUCTION TRAFFIC MANAGEMENT PLAN

08

8.1. Overview

This section seeks to provide a preliminary overview of the Construction Traffic Management Plan (CTMP) initiatives to be implemented as part of the construction works associated with the proposed development.

Specifically, this preliminary CTMP considers the following:

- construction site access arrangements
- anticipated truck volumes during construction stages
- truck routes to/ from the site
- requirements for works zones
- pedestrian and cyclist access
- site personnel parking
- traffic control measures
- overview of CTMP requirements.

8.2. Principles of Traffic Management

The general principles of traffic management during construction activities are as follows:

- minimise the impact on pedestrian and cyclist movements
- maintain appropriate public transport access
- minimise the loss of on-street parking
- minimise the impact on adjacent and surrounding buildings
- maintain access to/ from adjacent sites
- restrict construction vehicle movements to designated routes to/ from the site
- manage and control construction vehicle activity near the site
- carry out construction activity in accordance with approved hours of works.

8.3. Site Access and Loading

As Pelican Road is still to be constructed, it is anticipated that site access would be via Farmland Avenue with all loading and unloading of construction vehicles expected to take place wholly within the site. Should a works zone be required, an application will be made to Blacktown City Council prior to commencement of works.

As part of the detailed CTMP, traffic control plans (TCP) will be prepared, as required, in accordance with the principles of the Roads and Maritime Services Traffic Control at Work Sites manual. The TCPs primarily show where construction signs will be located at specific locations (such as uncontrolled intersections) along the approved truck routes to warn other road users of the increase in construction vehicle movements.

Access to the neighbouring sites by emergency vehicles would not be affected by the works as the road and footpath frontages would be unaffected. Emergency protocols on the site would include a requirement for site personnel to assist with emergency access from the street. All truck movements to the site and/or incident point would be suspended and cleared.

8.4. Construction Staff Parking

At this stage, details on construction staff volumes and schedules have not yet been determined. On-street kerbside parking is currently unrestricted in the vicinity of the development site along Farmland Drive and surrounding roads. Temporary modifications to car parking near the site, particularly at access points may be required to facilitate access and egress of construction vehicles to and from the site. Specific arrangements should be identified in the site-specific CTMP following confirmation of construction site layout.

Where feasible, on-site parking should be considered to minimise the impact on construction staff parking on the surrounding neighbourhood.

8.5. Heavy Vehicle Traffic Generation

At this stage, details on truck volumes and schedules have not yet been determined. However, several factors are noted are noted as relevant to the construction traffic impacts:

- The sub arterial, collector and local streets of Schofields are not heavily trafficked, with intersections performing at acceptable levels of service with minimal delays and moderate degrees of saturation, and
- At the current stage, Farmland Drive is not expected to experience a significant volume of daily traffic. It is observed that most of the residential properties along the street finished construction in 2018 and are vacant or only recently occupied.

Consequently, at this stage, it is not expected that the introduction of construction traffic will significantly affect traffic operation of Schofields' local intersections.

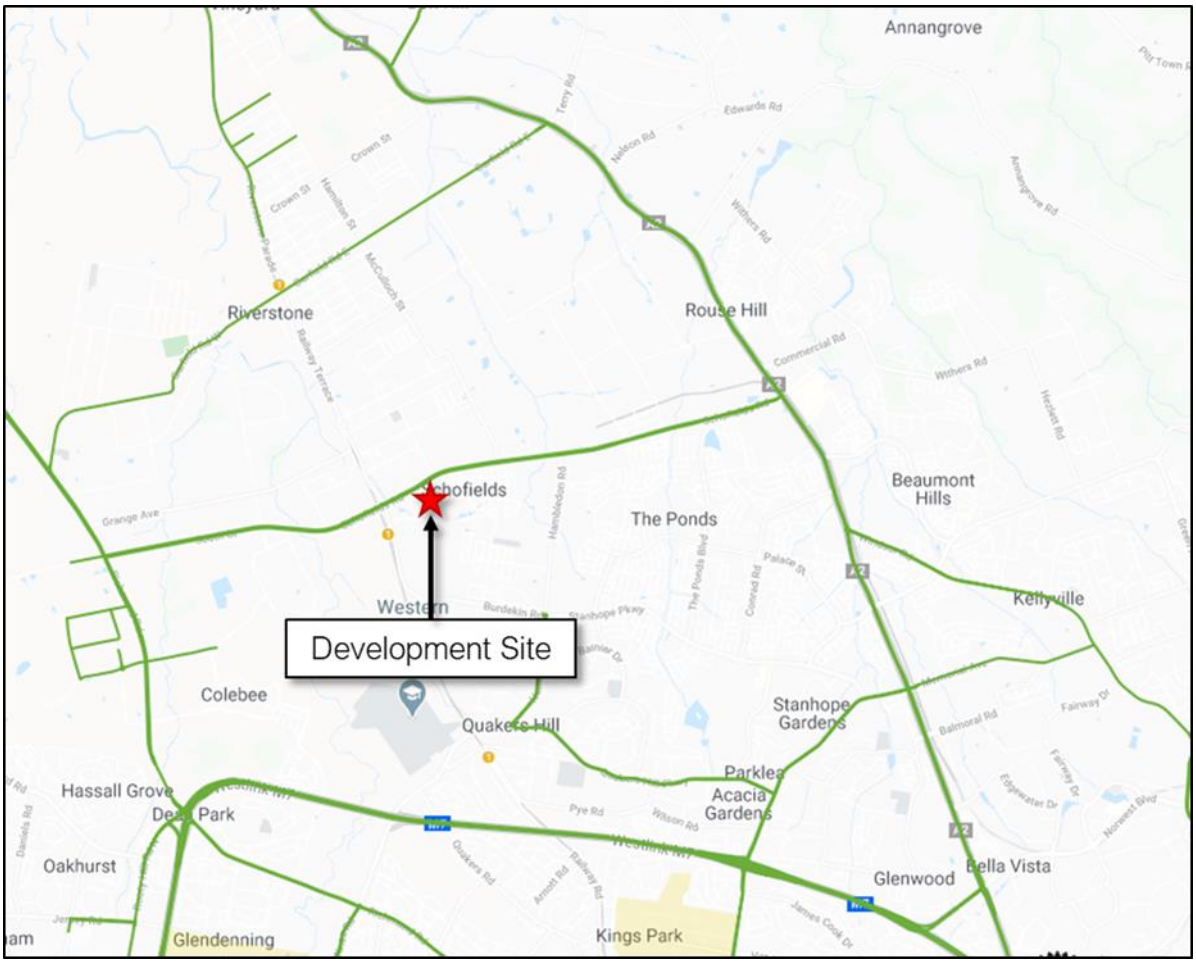
The signalised intersections along the proposed haulage route in Section 8.6 are key points of interaction between construction and pedestrian movements. The two main intersections are Schofields Road/ Junction Road and Schofields Road/ Alex Avenue. Signalised pedestrian crossings are provided along all approaches to these intersections, maximising pedestrian separation from truck movements.

At the local intersections along Farmland Drive, truck drivers should take care to observe the priority rules (mostly Give-Ways) the ensure safety of others in the area.

8.6. Heavy Vehicle Access Routes

Heavy vehicle movements would be restricted to designated routes and confined to RMS-approved B-Double roads and the arterial road network wherever feasible. Truck routes to/ from the site have been identified with the aim of providing the most direct routes to/ from the site as well as minimising the impact of heavy vehicles on local roads. All access movements originate from, or go to, Schofields Road, which has been determined as a B-Double approved section.

Figure 8.1: Approved Haulage Routes for 19m B-Double, near the site



The approach and exit routes are identified below, based on expected site access points on Alex Avenue and Farmland Drive.

Approach Routes

1. Travel east/west on Schofields Road
2. Turn left/right onto Alex Avenue
3. Turn right onto Farmland Drive.

Departure Routes

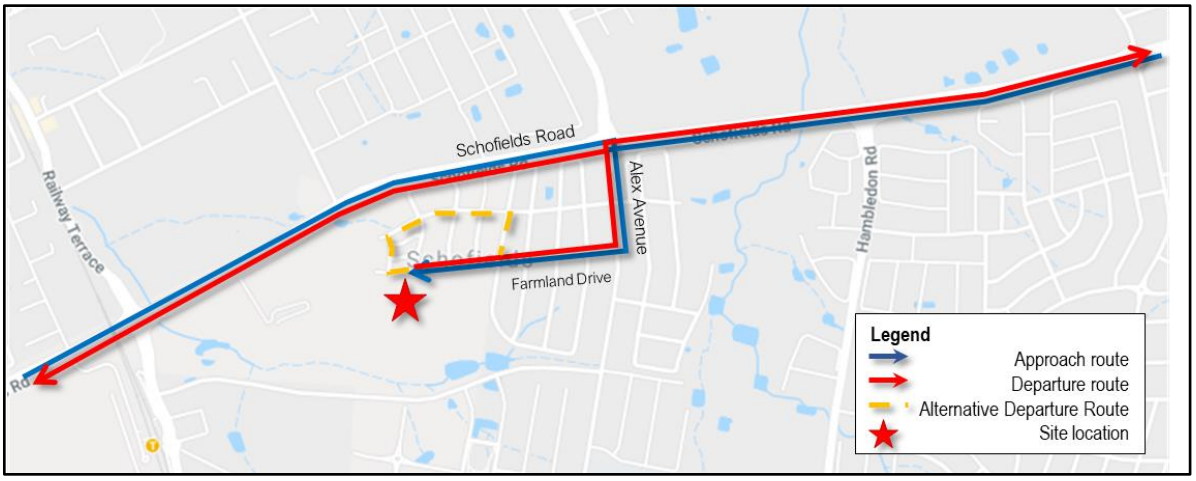
Two routes are outlined for the exit movement.

- Exit routes for the above routes are the reverse of the proposed access routes
- For vehicles that stop kerbside, the exit route includes a detour via Hyde Street, Healthland Avenue and Antonia Parade to return to main haulage routes.

Wherever possible, vehicles should use the first of these two routes to minimise construction vehicle impacts on the local residential streets.

The proposed routes are outlined in Figure 8.2.

Figure 8.2: Construction vehicle routes



8.7. Pedestrian and Cyclist Access

8.7.1. Expected Impacts to Pedestrian Facilities

Due to construction vehicle traffic to and from the site via the access locations, construction activities that are expected to impact pedestrian movements near the site include:

- Excavation
- Removal of spoil
- Material delivery
- Bulky equipment delivery (pile drivers), and
- Concrete pouring.

During these works, temporary closures of the path or pedestrian detours on the southern side of Farmland Drive may be necessary. Furthermore, during the associated construction stages, full closures of the path may be necessary on Farmland Drive to facilitate construction of the access driveways, the drop-off / pick-up zone or indented parking area. The streets bordering the proposed construction site (Hyde Street, Glacier Street and Heathland Avenue) are not relatively wide and given Farmland Drive will be a cul-de-sac in the interim, it is possible that construction works may require partial/full closure of the roadways in order for trucks accessing the Works Zone (see Section 9.6) to turn around. Construction vehicles are to access and exit the construction site in a forward direction, with turnaround movements contained on-site to minimise impacts of construction traffic on Farmland Drive.

It is noted that pedestrian volumes are expected to be low in the area, due to the lack of through connectivity of Farmland Drive and lack of any public facilities. Any pedestrians are likely to be local residents, who would be expected to be walking on the residential side (northern side) of Farmland Drive.

8.7.2. Potential Pedestrian Detours

During the impacts to pedestrian movements outlined above, pedestrians must be redirected around the construction area. It is noted that there are no footpaths currently provided in the affected areas, nor on the other side of the road, and it is unlikely that both sides of the road will be closed simultaneously.

Under these conditions, signage should be installed to advise pedestrians of the change in roadside conditions. Where possible, pedestrian connectivity and accessibility is to be maintained on the public streets adjacent to the proposed development site during construction work stages. If any redirection of pedestrian movements is necessary, specific Pedestrian Management Plans (PMPs) are to be prepared to identify detour arrangements as a part of construction stage TCPs.

In summary, no significant detours to pedestrian movements are expected to be necessary.

8.7.3. Pedestrian Safety

In all cases where the construction activities require an obstruction, deviation or otherwise interfaces with pedestrians and the public spaces, hoarding or fencing must be installed to maintain separation of the construction work site. This includes the edges of the work site fronting onto Farmland Drive, as well as any temporary fencing for footpath or road closures.

At construction site access gates (construction vehicle crossover locations), warning signage is to be installed to maximise pedestrian awareness of vehicle movements. Functional lighting is to be installed at the corresponding locations and operated under low-light conditions.

8.7.4. Expected Impacts to Cycling Facilities

The shared paths on Schofields Road and Railway Terrace are not expected to be impacted by any construction works for the proposed school development due to their distance and restricted access from the site. Furthermore, as shared paths are cycling infrastructure separated from the roadway, it is highly unlikely that any construction equipment or vehicles will infringe upon the shared paths.

It is expected that the bulk of the construction traffic will access Schofields from Schofields Road, travelling towards the development site from the east and west. As such, there should be minimal interaction between construction traffic entering and exiting the work site and cyclists on any of the shared paths in the near vicinity.

Signalised pedestrian crossings are provided on all approaches on the two main intersections on Schofields Road (Junction Road/Pelican Road and Alex Avenue). As such, crossing movements are protected from construction traffic.

8.7.5. Potential Cyclist Detours

Specific Traffic Control Plans (TCPs) must be created for any redirection of cyclist movements from existing paths. Details of cyclist related TCPs are subject to confirmation of proposed construction staging and activities.

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8.8. Work Hours

The standard hours of work expected for the project are as follows:

- *Monday – Friday: 7:00am – 6:00pm*
- *Saturday: 7:30am – 3:30pm.*

Work is not to be undertaken on Sundays or public holidays.

Work hours are subject to change based on approval by Blacktown City Council. Following confirmation of construction items in the project work stages, any instances which require works to be conducted outside of standard hours are to be defined and the necessary approvals sought from Blacktown City Council.

8.9. Other Construction Details

No road closures are expected to be required during construction. Should a road closure be required, the appropriate approvals will be sought prior to construction commencing.

Any use of cranes during the construction works will be completed within the bounds of the site.

8.10. Stakeholder Consultation Strategy

Prior approval from Council and/ or Transport for NSW will be required along with consultation with other construction occurring on public roads in the precinct. Ongoing consultation with key stakeholders and adjacent landowners will be key to ensuring construction impact is minimised.

8.11. Overview of CTMP Requirements

This provides a preliminary overview of the CTMP initiatives that would be implemented for the construction of the school. A detailed CTMP would cover the following additional information beyond the information provided above:

- Detailed assessment of construction traffic impacts including any cumulative impacts
- Details regarding any one-off activities for installation of cranes and other equipment
- Swept path analysis of heavy vehicle access to the site and any such Works Zone
- Detailed assessment of on-street parking impacts
- Emergency vehicle access
- Impacts to public transport services, if any
- Traffic Control Plan(s)
- Contact details of key project personnel.

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9. CONCLUSION

09

9.1. Conclusion

The NSW Department of Education is proposing a new school called Alex Avenue Public School in Schofields which will cater for 1000 primary school students (kindergarten to year 6), with an indicative 70 full-time staff upon completion. This Transport Impact Assessment has been prepared to accompany an Environmental Impact Statement in support for State Significant Development Application (SSD 9368).

Based on the analysis and discussion presented within this report, the following conclusions are made:

1. The development site is a greenfield site with minimal existing traffic and infrastructure.
2. The development is staged, with Stage 1 works to cater for an initial Term 1, Day 1 operation for up to 600 students, and the Stage 2 works to deliver the remaining classroom buildings to achieve a total capacity of 1000 students.
3. Existing public transport accessibility is generally limited within the vicinity of the site, with the closest train station, Schofields Station, located 1000 metres to the south-west, and the closest bus stop, on Alex Avenue, located 600 metres to the east.
4. Following the completion of Pelican Road, an indented bus bay will be constructed on the west frontage of the school site, facilitating an area for school-related bus operations. The bus bay will have a full-width section of 30 metres (i.e. excluding tapers), capable of accommodating up to two 14.5-metre long buses.
5. Existing pedestrian and cycling infrastructure is limited within the vicinity of the site. As part of the development, footpaths along the school frontage will be developed and raised profile pedestrian crossings (wombat crossings) installed on Farmland Drive (approved by Blacktown City Council) and potentially on Pelican Road (subject to further review).
6. Staff car parking will be provided through a Joint Use Agreement with Blacktown City Council and will be in the adjacent Council park car park to the east of the site. This car park provides 100 car parking spaces, sufficiently meeting the DCP requirement for 80 car parking spaces, whilst providing additional parking for the park use and occasional sporting event. Access and egress will be via new crossovers on Farmland Drive, external to the school frontage.
7. Parent parking will be in the form of eight parallel pick-up/ drop-off bays provided in the Council park car park. 328 parent vehicles are expected in the AM peak and 270 parent vehicles are expected in the PM peak. A review of the pick-up/ drop-off capacity finds that this sufficiently accommodates the expected demand. Sensitivity testing with slower turnover indicates queuing, and hence highlights the importance of management of this operation.
8. Special needs pick-up/ drop-off and staff accessible parking will be provided in the form of four accessible bays within the school boundary. Gates will be provided to manage access to this area with access from the adjacent car park and exit via a new crossover on Farmland Drive on the school frontage.
9. 56 bicycle spaces will be provided within the school grounds, meeting the minimum requirement of 24-47 spaces based on the *Planning Guidelines for Walking and Cycling* (adopted in lieu of specific guidance on provision in the Blacktown DCP).

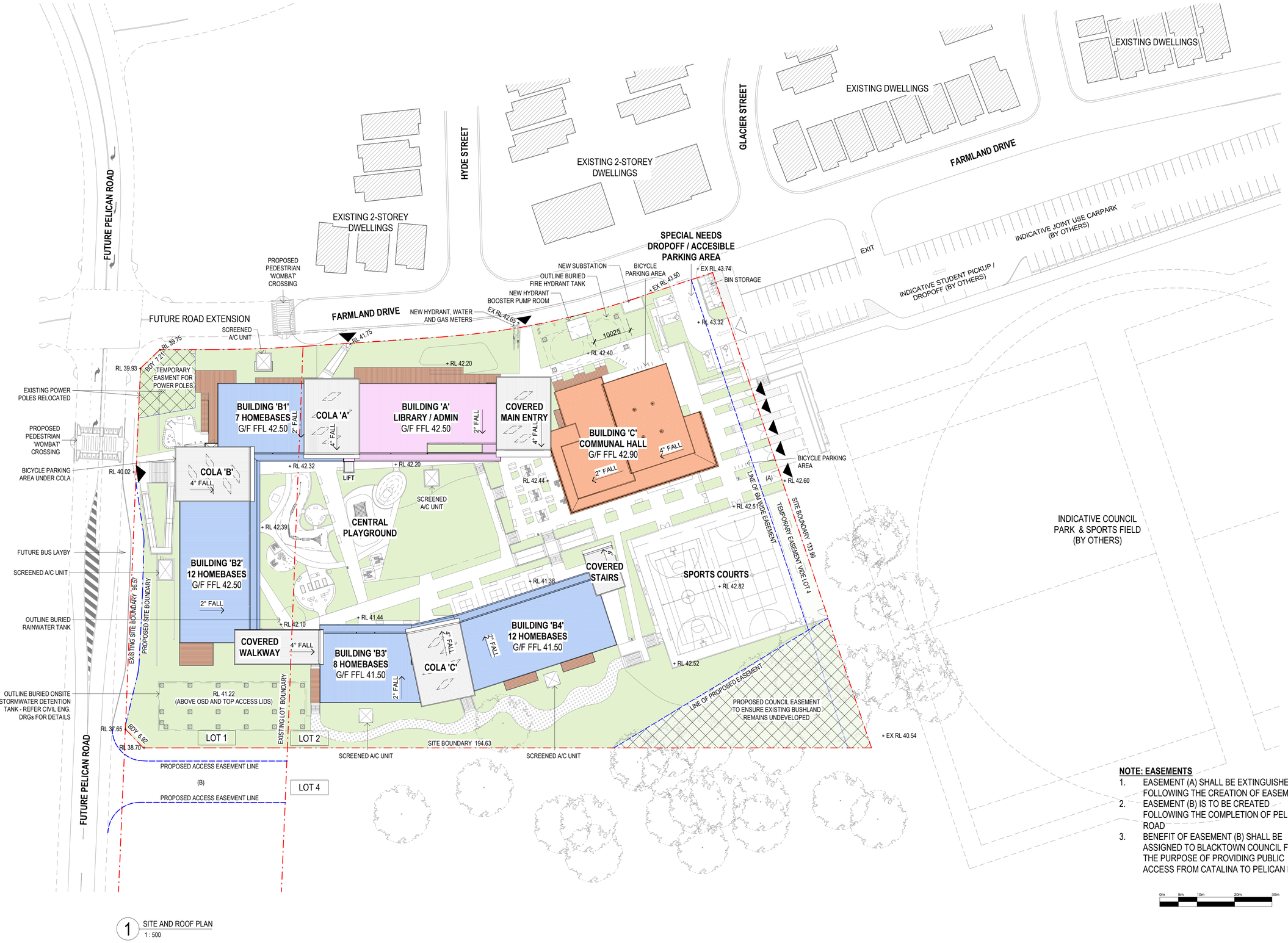
DRAFT

10. As the school will be a new school, target student mode share has been adopted from the *Green Travel Plan Report* prepared by GTA and benchmarked against *Trip Generation Surveys, Schools Analysis Report* by GTA. The Sydney Metropolitan average from the *Trip Generation Surveys* presents a 50/ 2/ 48 per cent split between car/ bus/ walk in the AM peak and a 40/ 2/ 58 per cent split in the PM peak. The target student mode share for the school will be 65/ 10/ 25 per cent split for car/ public transport/ walk, respectively.
11. Similarly, staff mode share has been informed by Australian Bureau of Statistics 2016 Census Data. After considering the particulars of the site and public transport accessibility, a mode share of 96 per cent car, 2 per cent public transport, and 2 per cent active transport is adopted for conservative assessment of traffic impacts.
12. Traffic generation for the site has been calculated based on reference to the *Trip Generation Surveys, Schools Analysis Report* by GTA. The average rate for the Sydney Metropolitan area was adopted resulting in an indicative 670 one-way trips in the AM peak and 530 one-way trips in the PM peak.
13. SIDRA modelling of the Pelican Road/ Farmland Drive intersection indicate that all approaches operate at a Level of Service A in the base scenario (2026 model year).
14. In the post-development scenario, all approaches of the Pelican Road/ Farmland Drive intersection maintain a Level of Service A, reflecting minimal impact from the school development on the nearby key intersection.
15. A preliminary construction traffic management plan (CTMP) has been prepared as part of this report. It provides initial guidance for the construction-related traffic and management and should be further developed as a detail report prior to construction of the school.

DRAFT

A.ARCHITECTURAL SITE PLAN

A



1 SITE AND ROOF PLAN
1 : 500

NOTE: EASEMENTS

1. EASEMENT (A) SHALL BE EXTINGUISHED FOLLOWING THE CREATION OF EASEMENT (B)
2. EASEMENT (B) IS TO BE CREATED FOLLOWING THE COMPLETION OF PELICAN ROAD
3. BENEFIT OF EASEMENT (B) SHALL BE ASSIGNED TO BLACKTOWN COUNCIL FOR THE PURPOSE OF PROVIDING PUBLIC ACCESS FROM CATALINA TO PELICAN ROAD

0m 5m 10m 20m 30m

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	IFC AMENDED AS INDICATED	15.10.2019
3	SSD SUBMISSION	15.11.2019
4	REVISED SSD SUBMISSION	22.11.2019
5	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

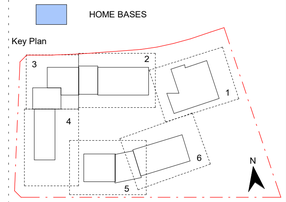
LEGEND

- Site boundary
- Proposed boundary
- Extent of easement
- Existing neighbouring buildings
- Pedestrian entry
- Vehicular entry

ZONES

- ADMIN / LIBRARY
- HALL / OSHC / CANTEEN
- HOME BASES

Key Plan



Contractor
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

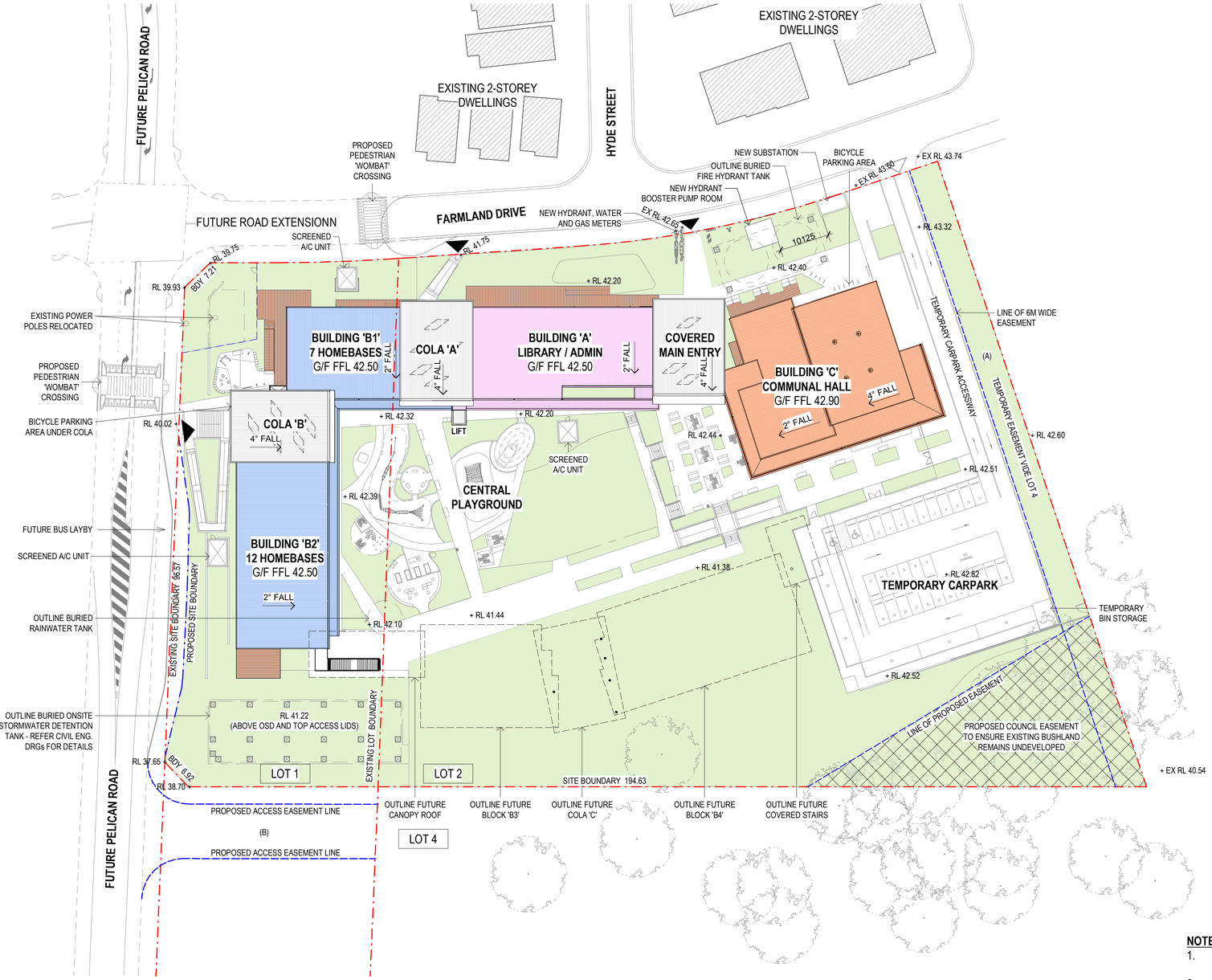
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
PROPOSED SITE AND ROOF PLAN

Scale @ A1	1 : 500
Drawing Created (date)	30/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1100	5

21/02/2020 5:17:52 PM



1 SITE AND ROOF PLAN - STAGE 1
1 : 500

NOTE: EASEMENTS

1. EASEMENT (A) SHALL BE EXTINGUISHED FOLLOWING THE CREATION OF EASEMENT (B)
2. EASEMENT (B) IS TO BE CREATED FOLLOWING THE COMPLETION OF PELICAN ROAD
3. BENEFIT OF EASEMENT (B) SHALL BE ASSIGNED TO BLACKTOWN COUNCIL FOR THE PURPOSE OF PROVIDING PUBLIC ACCESS FROM CATALINA TO PELICAN ROAD

0m 5m 10m 20m 30m

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Amendments

Issue	Description	Date
1	ISSUED FOR APPROVAL	28.11.2019
2	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

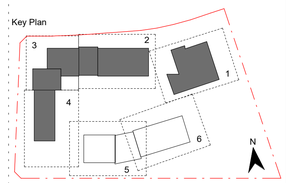
LEGEND

- Site boundary
- Proposed boundary
- Extent of easement
- Existing neighbouring buildings
- Pedestrian entry
- Vehicular entry

ZONES

- ADMIN / LIBRARY
- HALL / OSHC / CANTEEN
- HOME BASES

Key Plan



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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
PROPOSED SITE AND ROOF PLAN - STAGE 1

Scale @ A1	1 : 500
Drawing Created (date)	28/11/19
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
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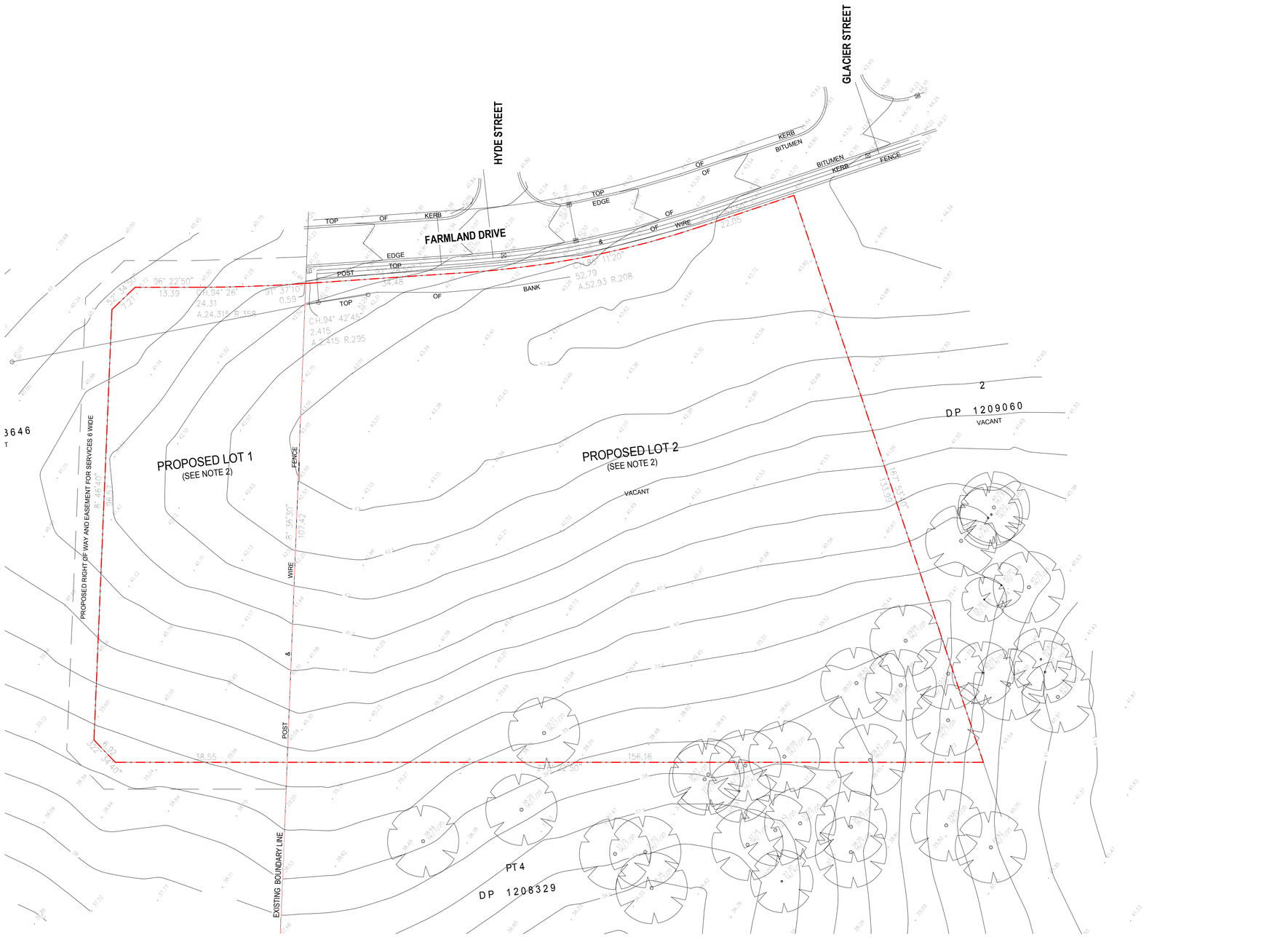

1 EXISTING SITE PLAN
1 : 500

0m 5m 10m 20m 30m

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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
B	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

Contractor

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Project Title

ALEX AVENUE PUBLIC SCHOOL

Drawing Title

EXISTING SITE PLAN

Scale @ A1	1 : 500
Drawing Created (date)	31/05/19
Drawing Created (by)	DN
Plotted and checked by	D.NGO
Verified	JS
Approved	MB

Project No	Drawing No	Issue
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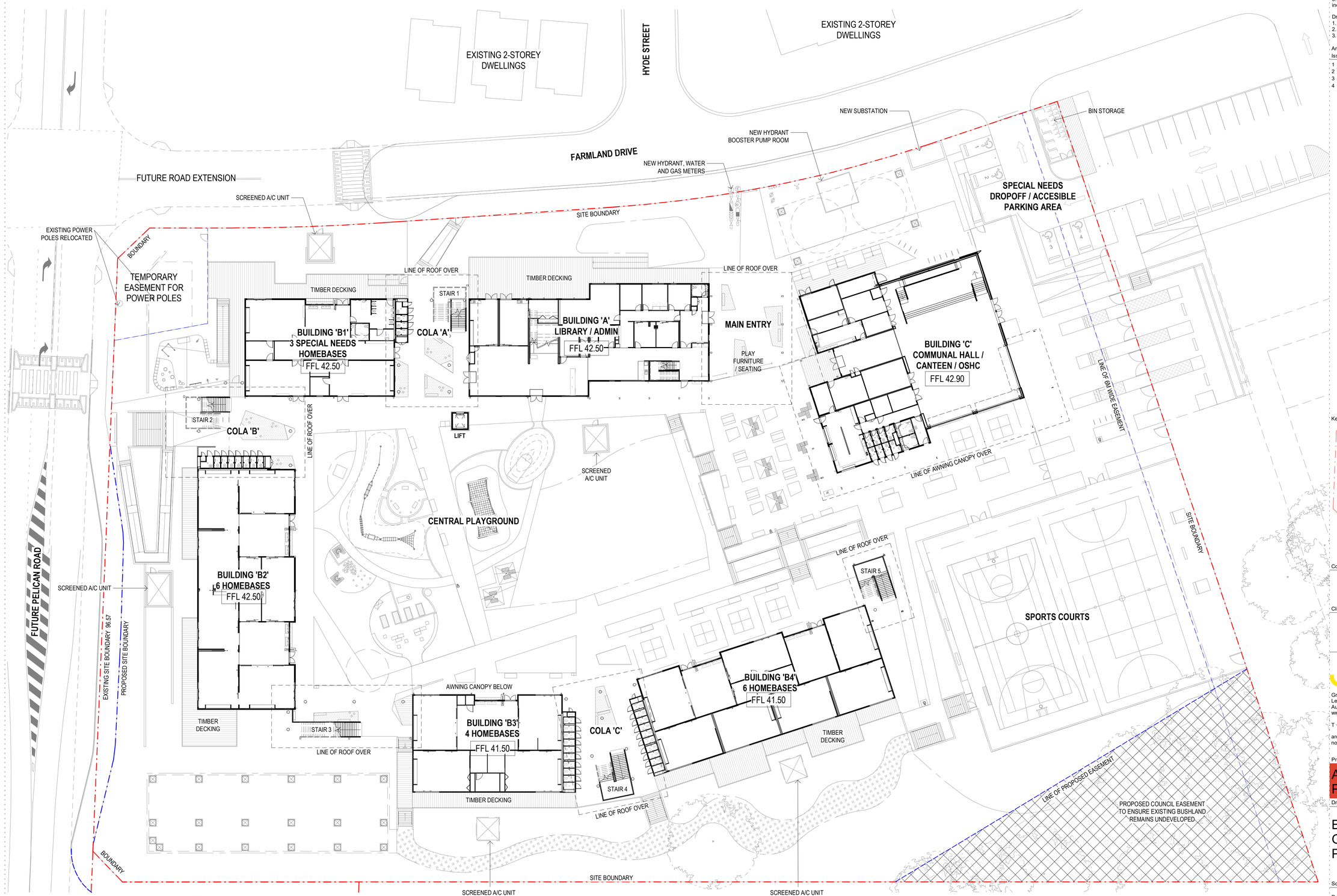
2/08/2019 7:13:47 PM



1 BUILDING COMPLEX GROUND FLOOR PLAN
1 : 300

0m 3m 6m 12m 18m

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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	SSD SUBMISSION	15.11.2019
3	REVISED SSD SUBMISSION	22.11.2019
4	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

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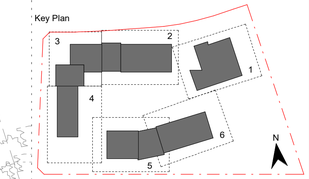
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

Key Plan



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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
BUILDING COMPLEX GROUND FLOOR PLAN

Scale @ A1	1 : 300
Drawing Created (date)	30/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
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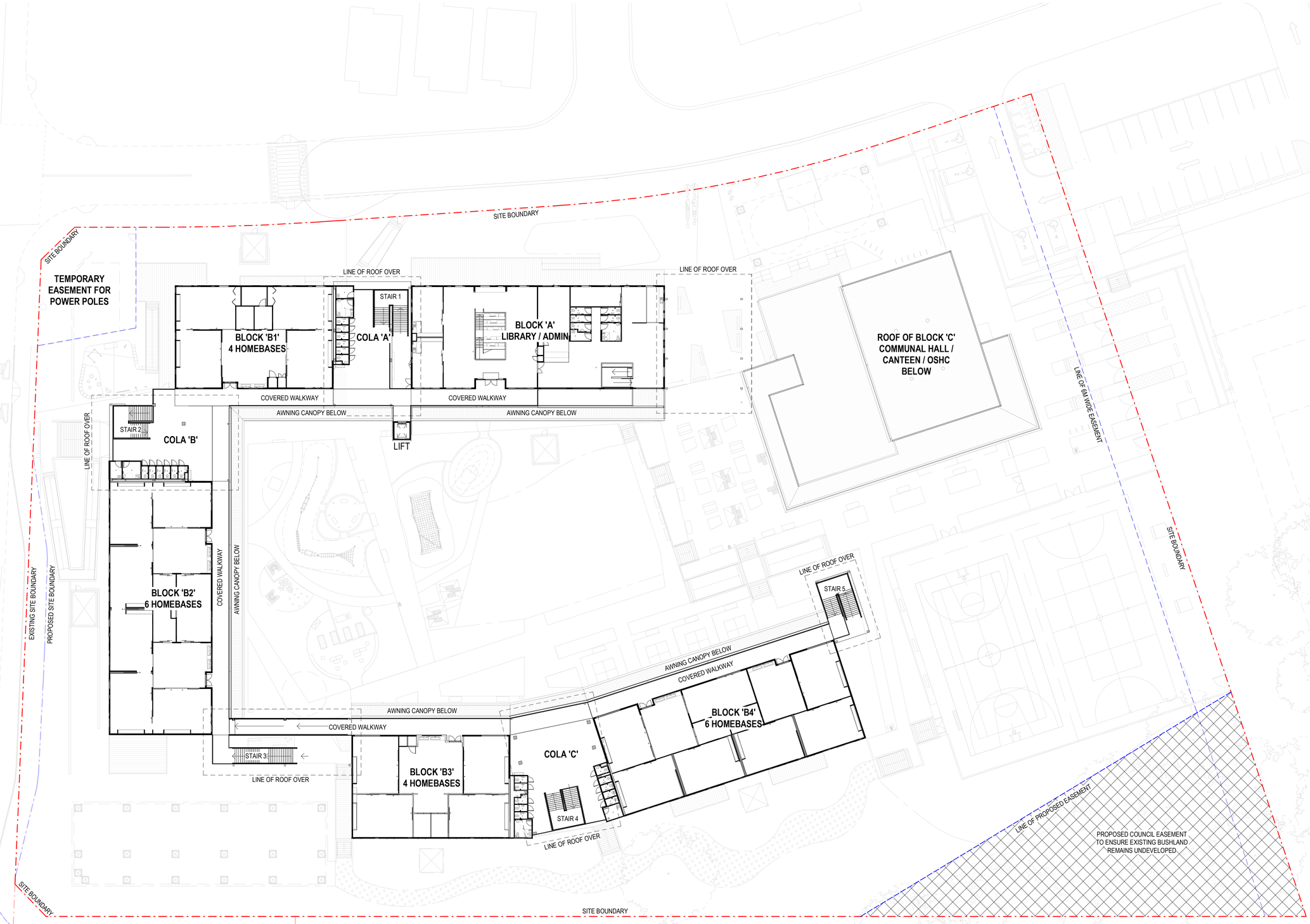

1 BUILDING COMPLEX FIRST FLOOR PLAN
1 : 300

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

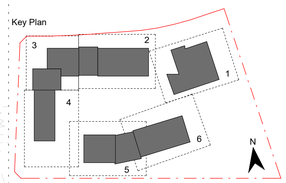
Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	SSD SUBMISSION	15.11.2019
3	REVISED SSD SUBMISSION	22.11.2019
4	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

Key Plan



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Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
BUILDING COMPLEX FIRST FLOOR PLAN

Scale @ A1	1 : 300
Drawing Created (date)	30/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1111	4

21/02/2020 5:18:17 PM

1 ROOF PLAN
1 : 300

0m 3m 6m 12m 18m

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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	SSD SUBMISSION	15.11.2019
3	REVISED SSD SUBMISSION	22.11.2019
4	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

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Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
BUILDING COMPLEX ROOF PLAN

Scale @ A1	1 : 300
Drawing Created (date)	23/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1112	4

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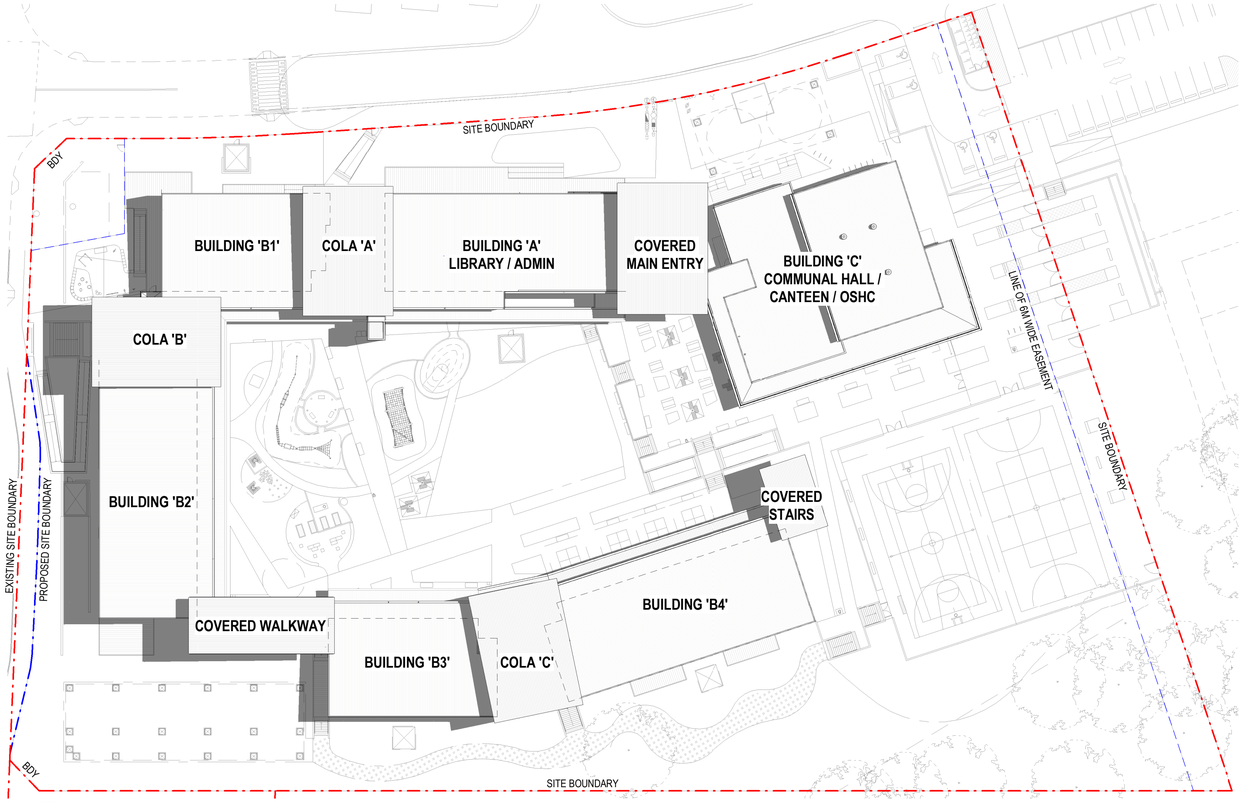
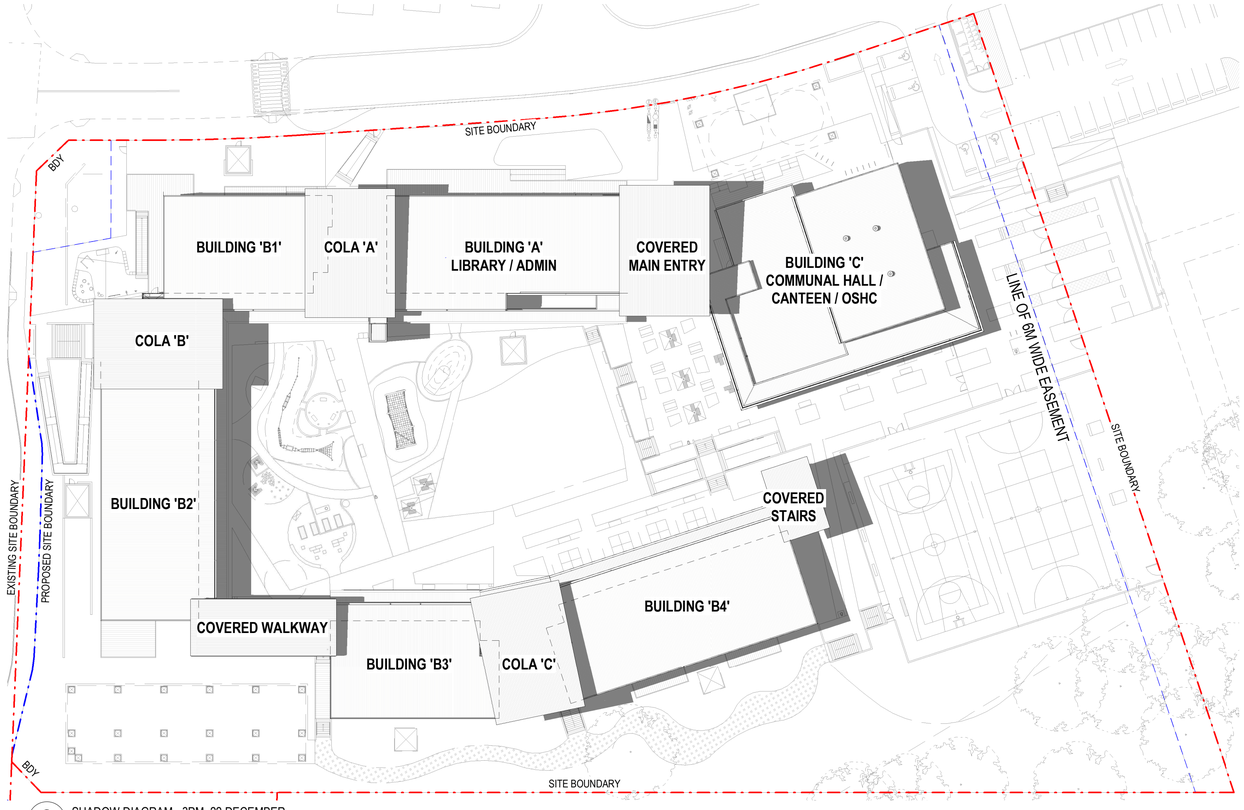


1 SHADOW DIAGRAM - 9AM, 22 DECEMBER
1 : 500



2 SHADOW DIAGRAM - 3PM, 22 DECEMBER
1 : 500

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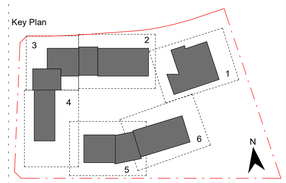
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
1	REVISED SSD SUBMISSION	21.02.2020

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

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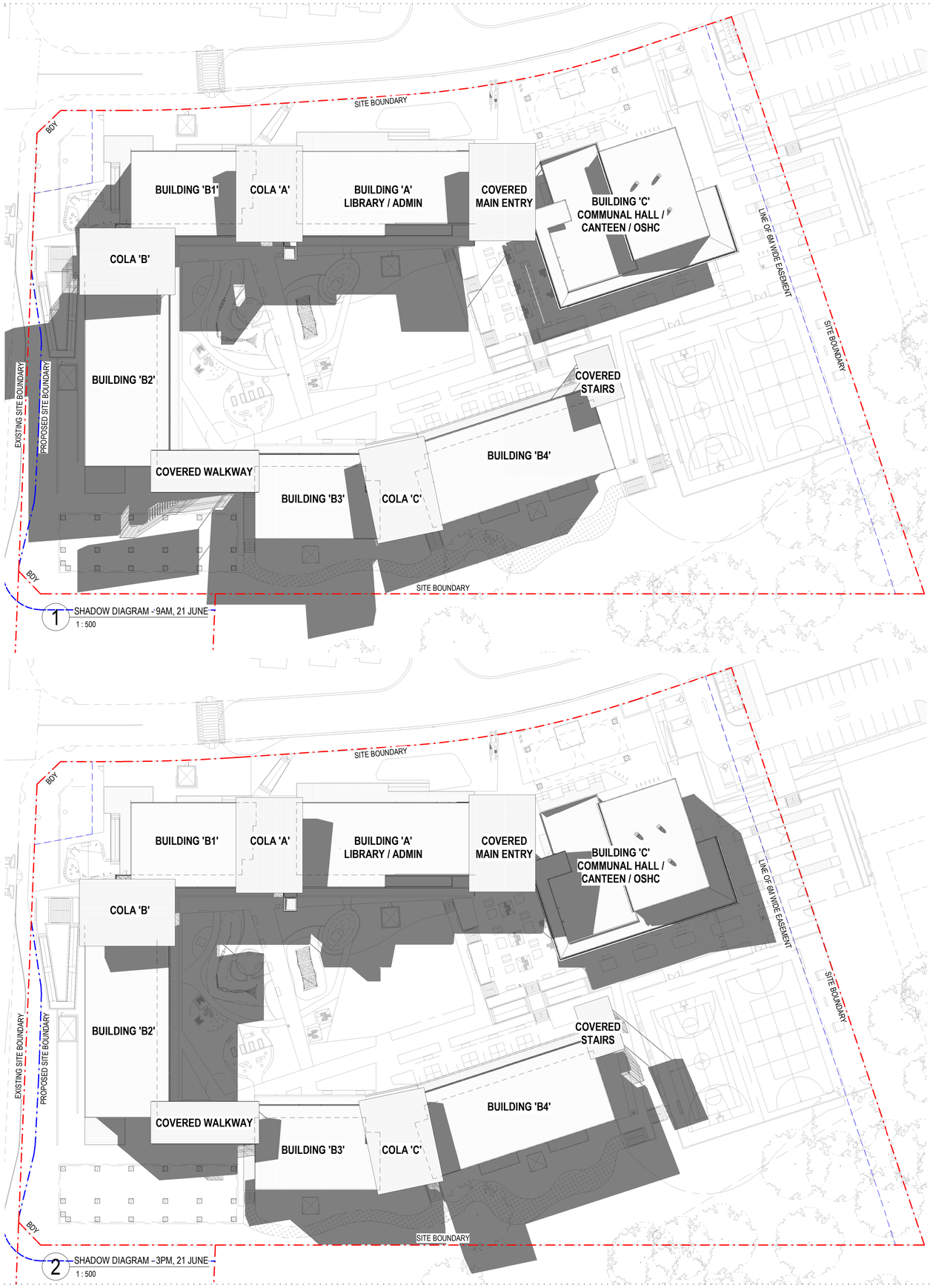
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
SITE PLAN - SHADOWS - DEC

Scale @ A1	1 : 500
Drawing Created (date)	05/31/19
Drawing Created (by)	LO
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1120	1

26/02/2020 3:28:55 PM



1 SHADOW DIAGRAM - 9AM, 21 JUNE
1 : 500

2 SHADOW DIAGRAM - 3PM, 21 JUNE
1 : 500

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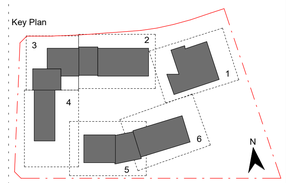
Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
1	REVISED SSD SUBMISSION	21.02.2020

Key Plan



Contractor
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
SITE PLAN -
SHADOWS - JUNE

Scale @ A1	1 : 500
Drawing Created (date)	05/31/19
Drawing Created (by)	LO
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1121	1

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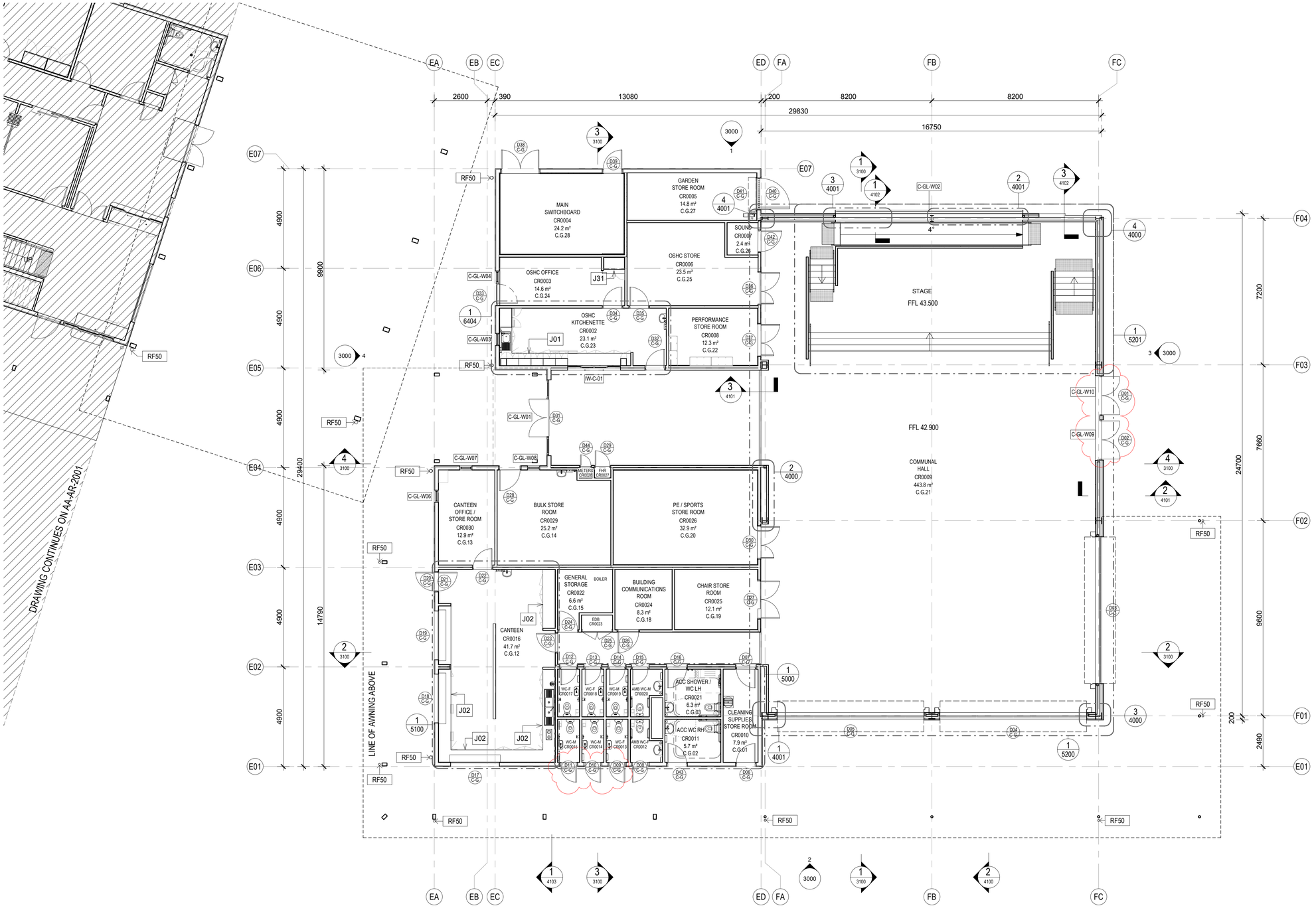

1 BLOCK C - HALL - GROUND FLOOR
1 : 100

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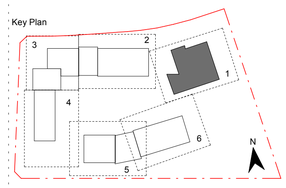
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	10.04.2019
C	DRAFT DETAILED DESIGN	17.04.2019
D	DRAFT DETAILED DESIGN	24.04.2019
E	DRAFT DETAILED DESIGN	01.05.2019
F	DOORS GENERALLY AMENDED	07.05.2019
G	PROGRESS ISSUE	10.05.2019
H	FOR SSD SUBMISSION	31.05.2019
I	INTERNAL GLAZING	05.06.2019
J	DRAFT DETAILED DESIGN	14.06.2019
K	DETAILED DESIGN	21.06.2019
L	ISSUED FOR COORDINATION	12.07.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
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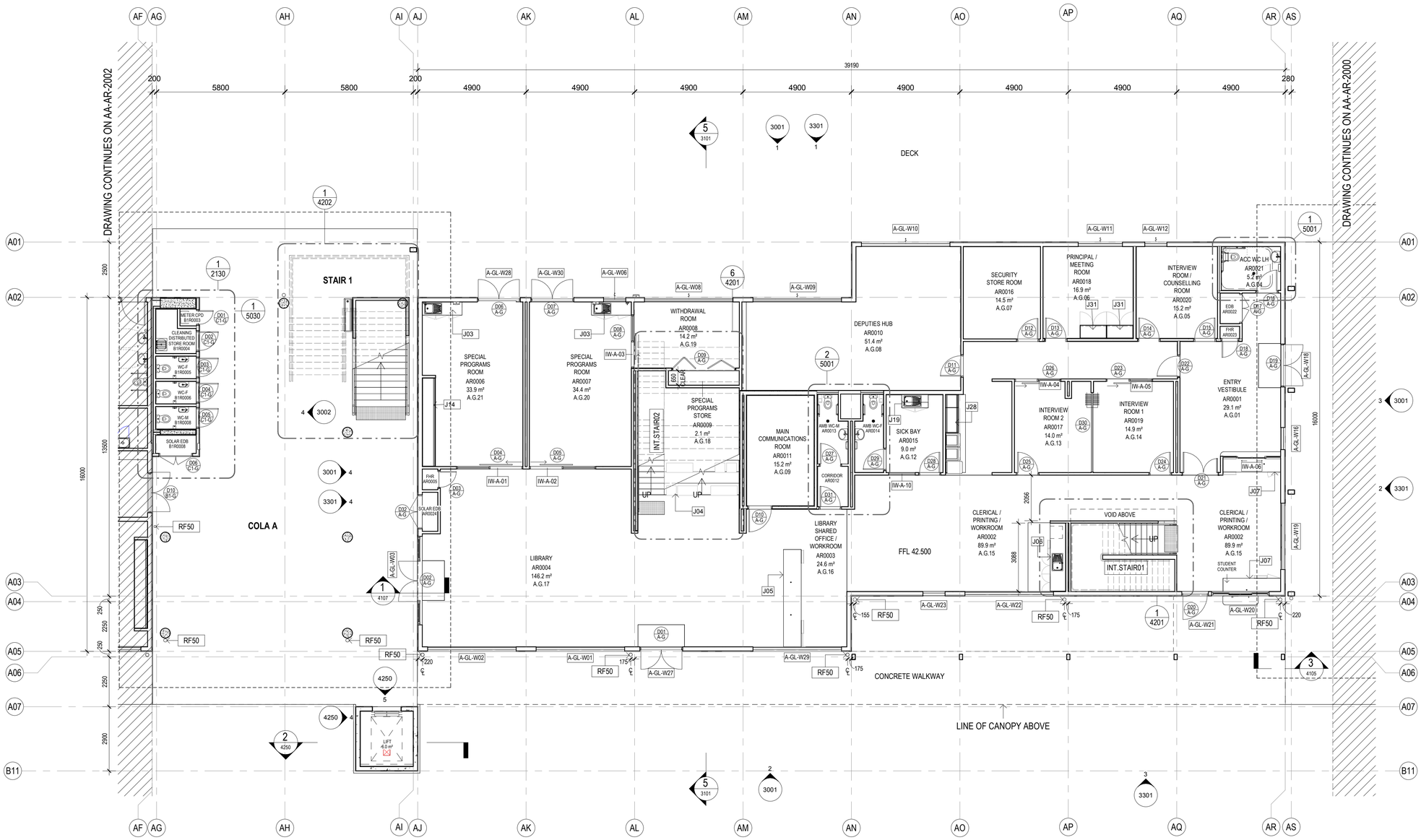
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK C - PART 1

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2000	1



1 BLOCK A - ADMIN/LIBRARY - GROUND FLOOR
1 : 100

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Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

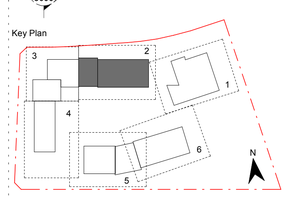
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	DRAFT DETAILED DESIGN	24.04.2019
D	DRAFT DETAILED DESIGN	01.05.2019
E	PROGRESS ISSUE	10.05.2019
F	FOR SSD SUBMISSION	31.05.2019
G	INTERNAL GLAZING	05.06.2019
H	DRAFT DETAILED DESIGN	14.06.2019
I	DETAILED DESIGN	21.06.2019
J	FOR COORDINATION	11.07.2019
K	FOR INFORMATION	31.07.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



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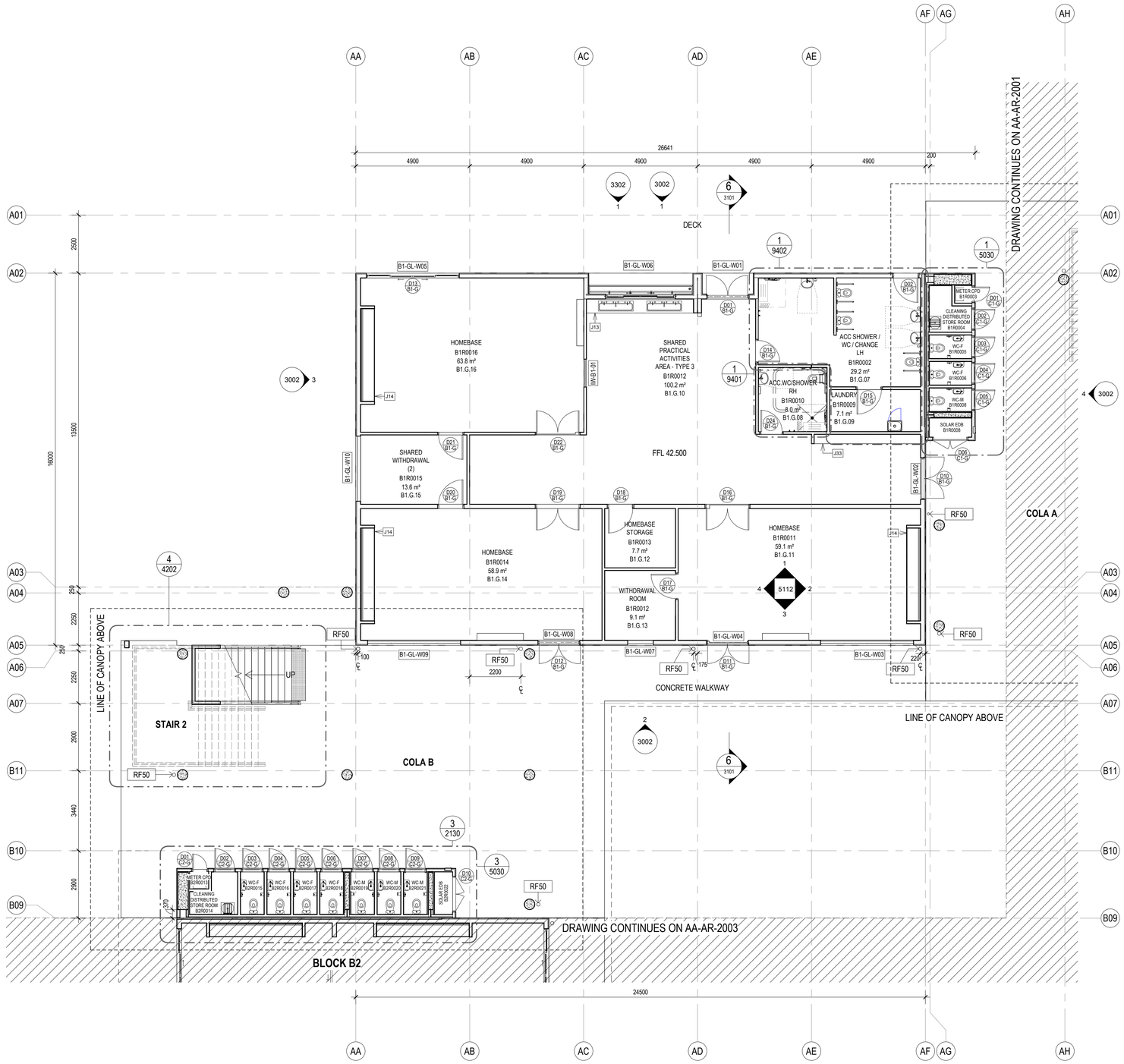
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK A - PART 2

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DE
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2001	1



1 BLOCK B1 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

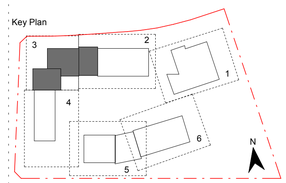
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	AMENDED AS INDICATED	14.05.2019
F	FOR SSD SUBMISSION	31.05.2019
G	INTERNAL GLAZING	05.06.2019
H	DRAFT DETAILED DESIGN	14.06.2019
I	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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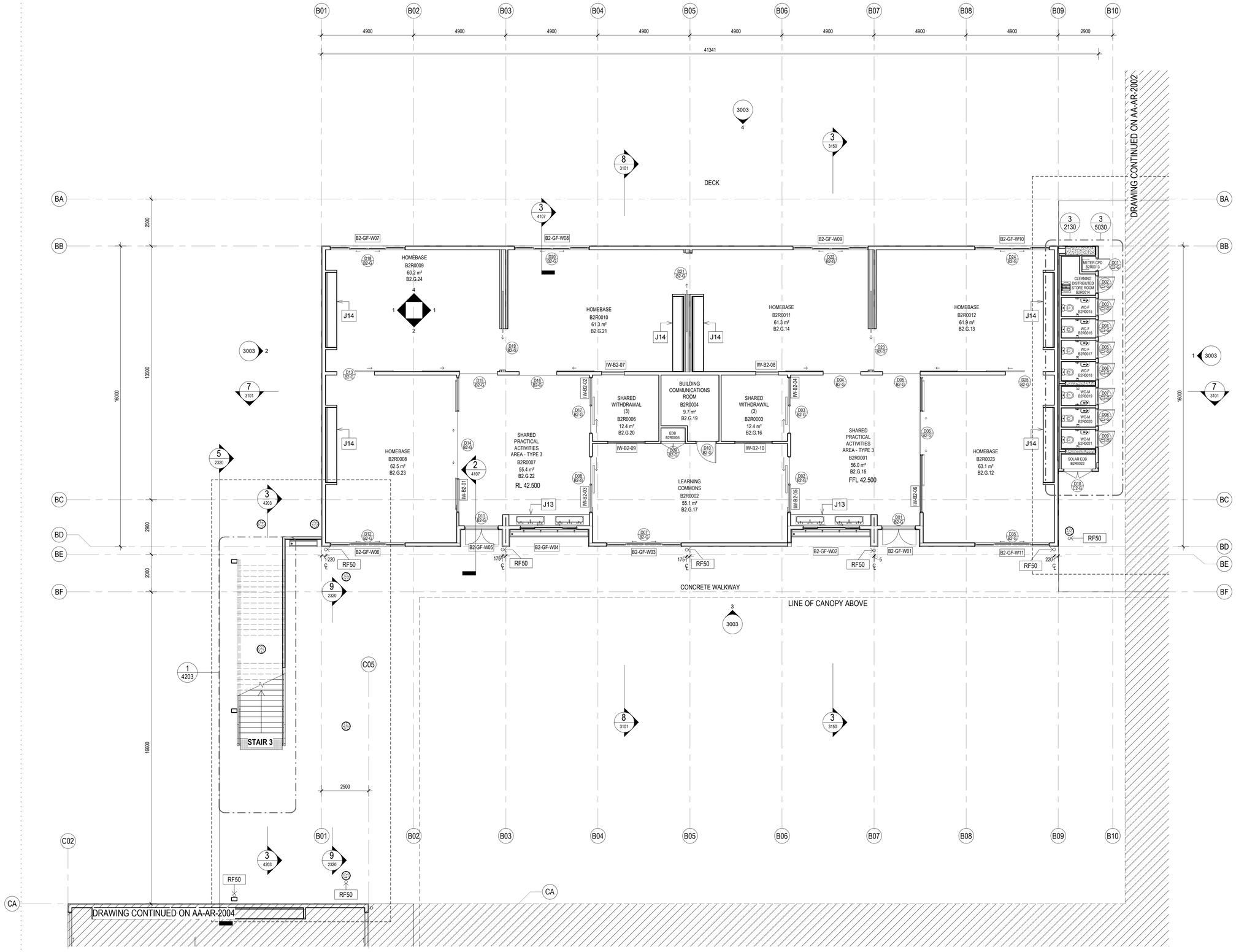
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B1 - PART 3

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2002	1

2/08/2019 7:20:19 PM



1 BLOCK B2 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

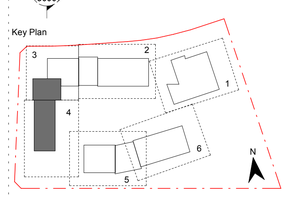
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	INTERNAL GLAZING	05.06.2019
G	DRAFT DETAILED DESIGN	14.06.2019
H	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 C-G — Door number
- W01 — Window number
- 1 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 3000 — External elevation

Key Plan



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nom architect M. Sheldon 3990

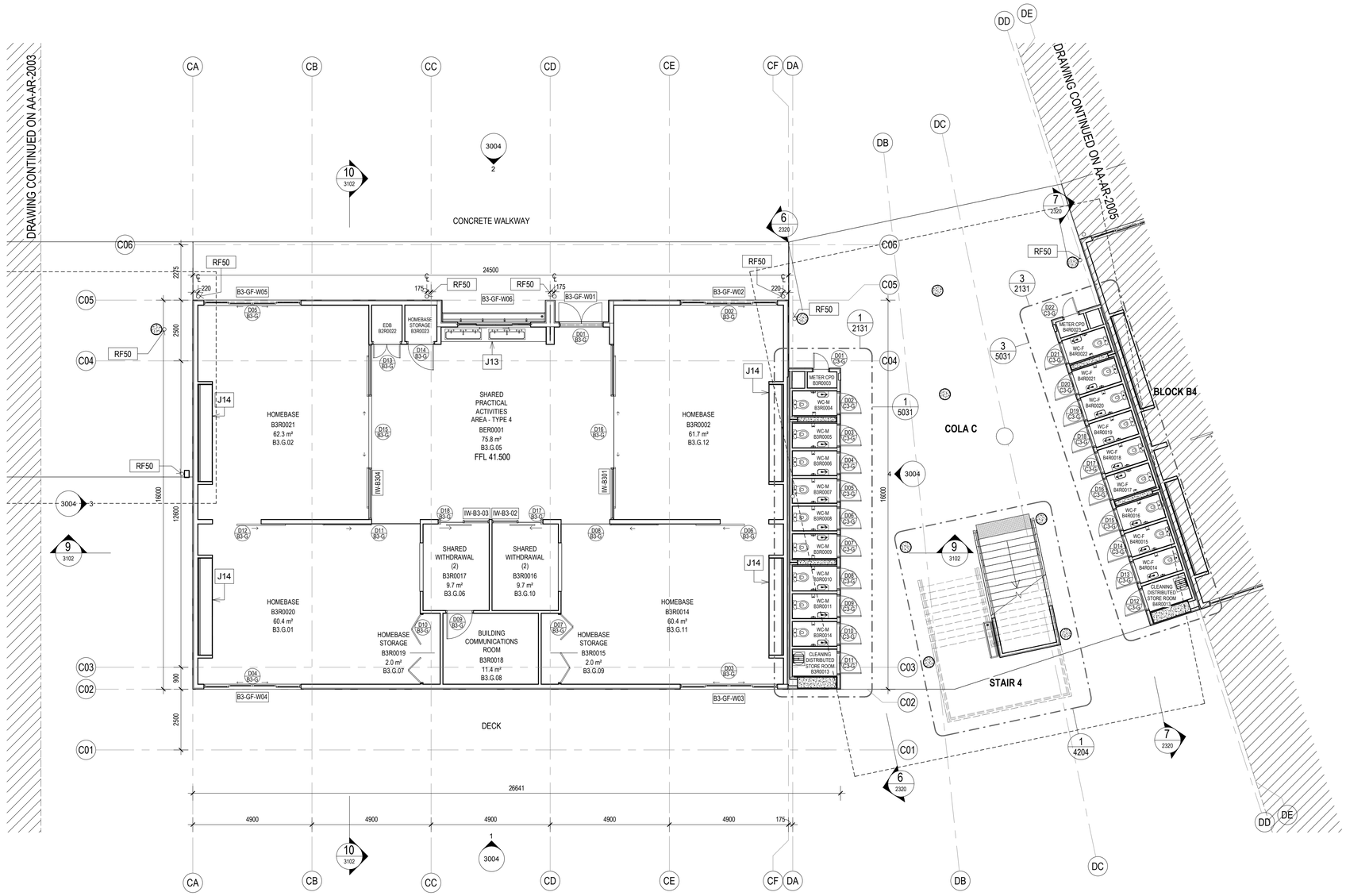
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B2 - PART 4

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2003	1

2/08/2019 7:20:33 PM



1 BLOCK B3 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

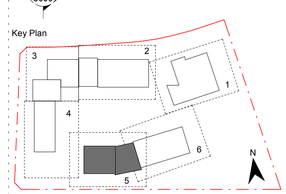
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	INTERNAL GLAZING	05.06.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- DD01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



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nom architect M. Sheldon 3990

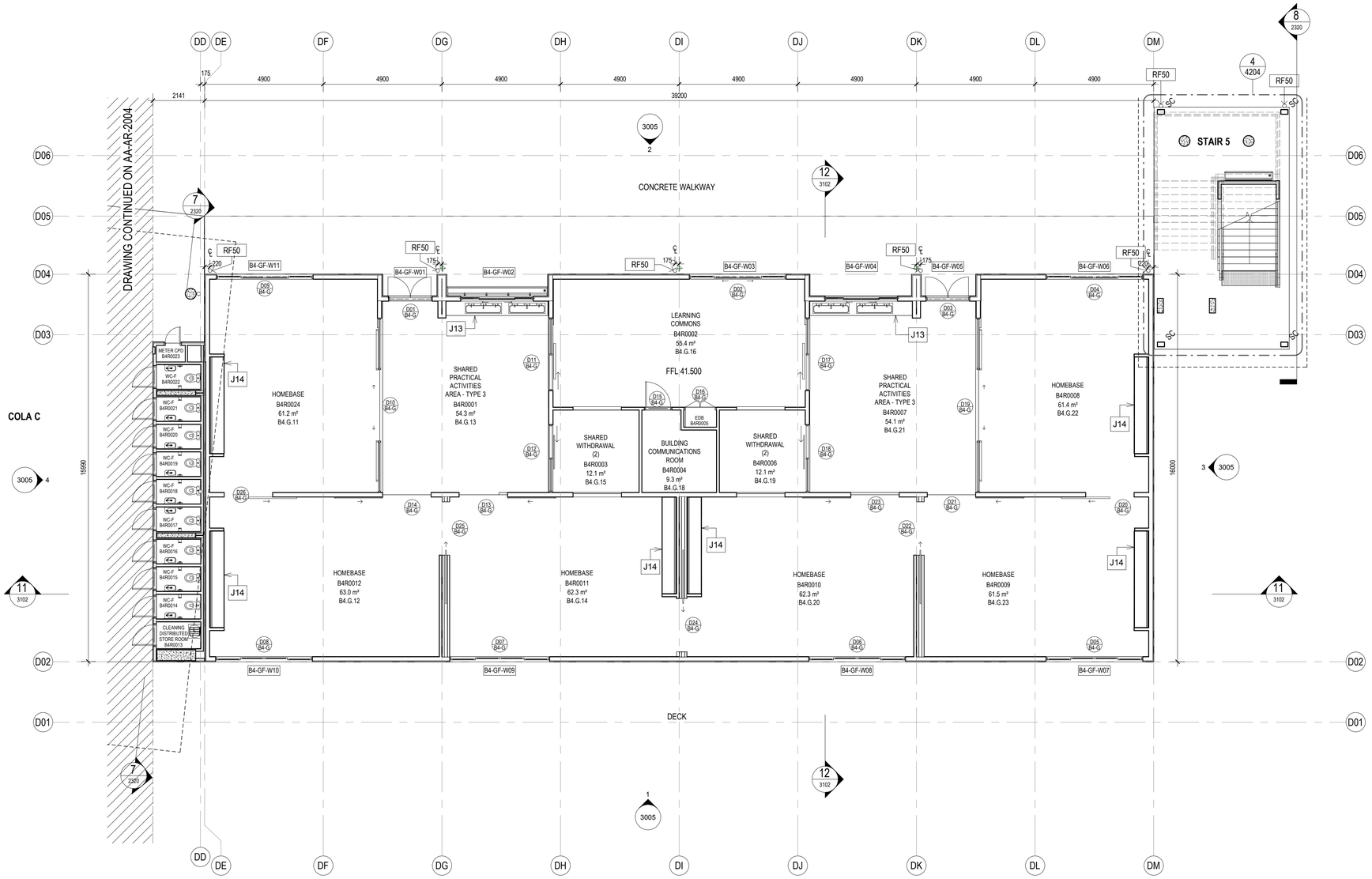
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B3 - PART 5

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2004	1

2/08/2019 7:20:47 PM



1 BLOCK B4 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

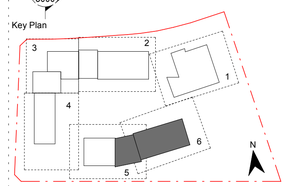
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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nom architect M. Sheldon 3990

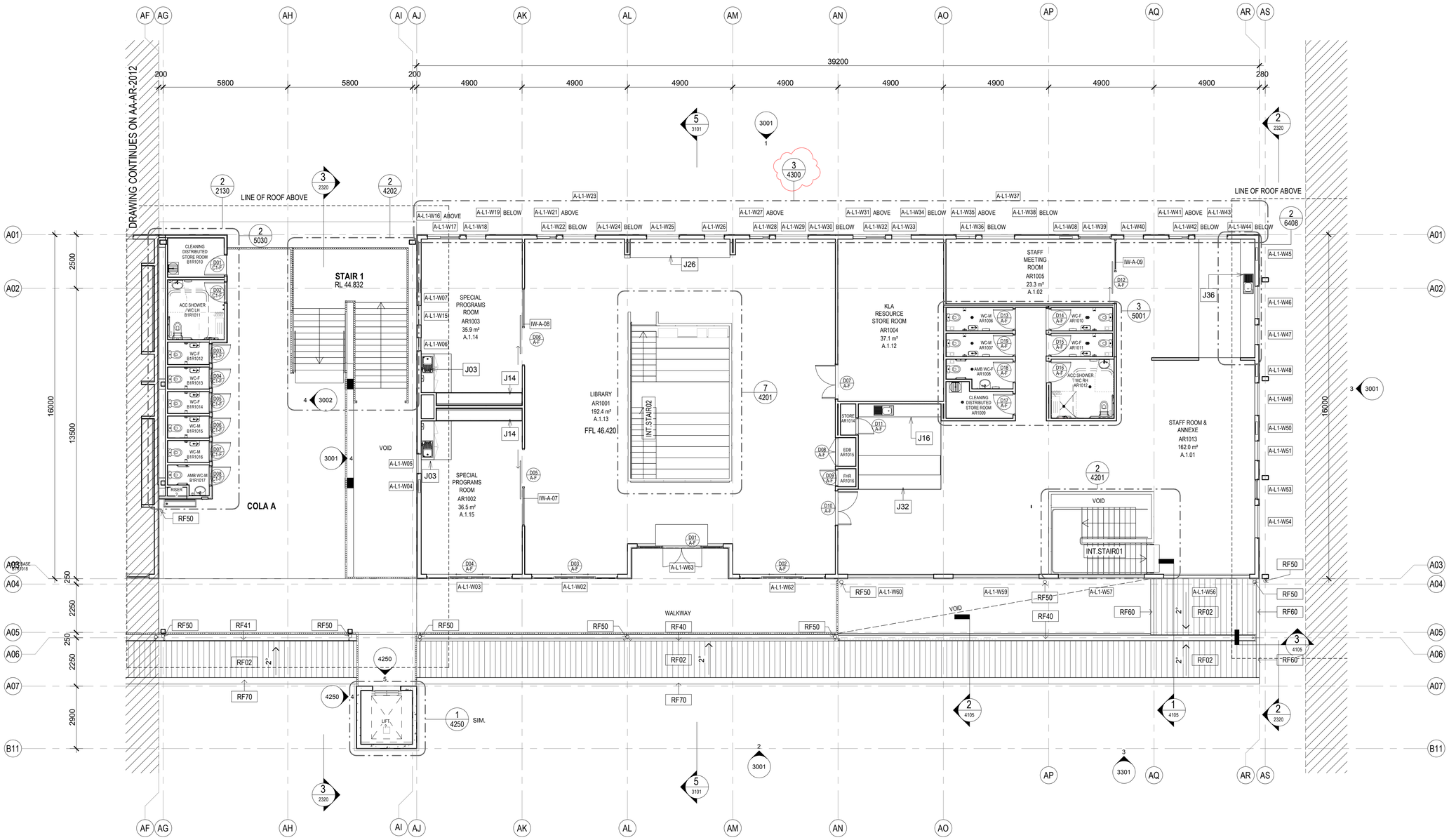
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B4 - PART 6

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2005	1

2/08/2019 7:21:15 PM



1 BLOCK A - ADMIN/LIBRARY - LEVEL 1
1 : 100

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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

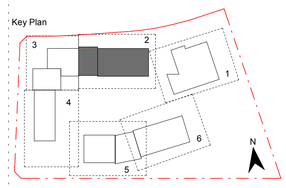
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	DRAFT DETAILED DESIGN	24.04.2019
D	DRAFT DETAILED DESIGN	01.05.2019
E	PROGRESS ISSUE	10.05.2019
F	DOORS AMENDED	15.05.2019
G	FOR SSD SUBMISSION	31.05.2019
H	WINDOW LOCATIONS REVISED	07.06.2019
I	DRAFT DETAILED DESIGN	14.06.2019
J	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019
2	ISSUED FOR CONSTRUCTION	29.08.19

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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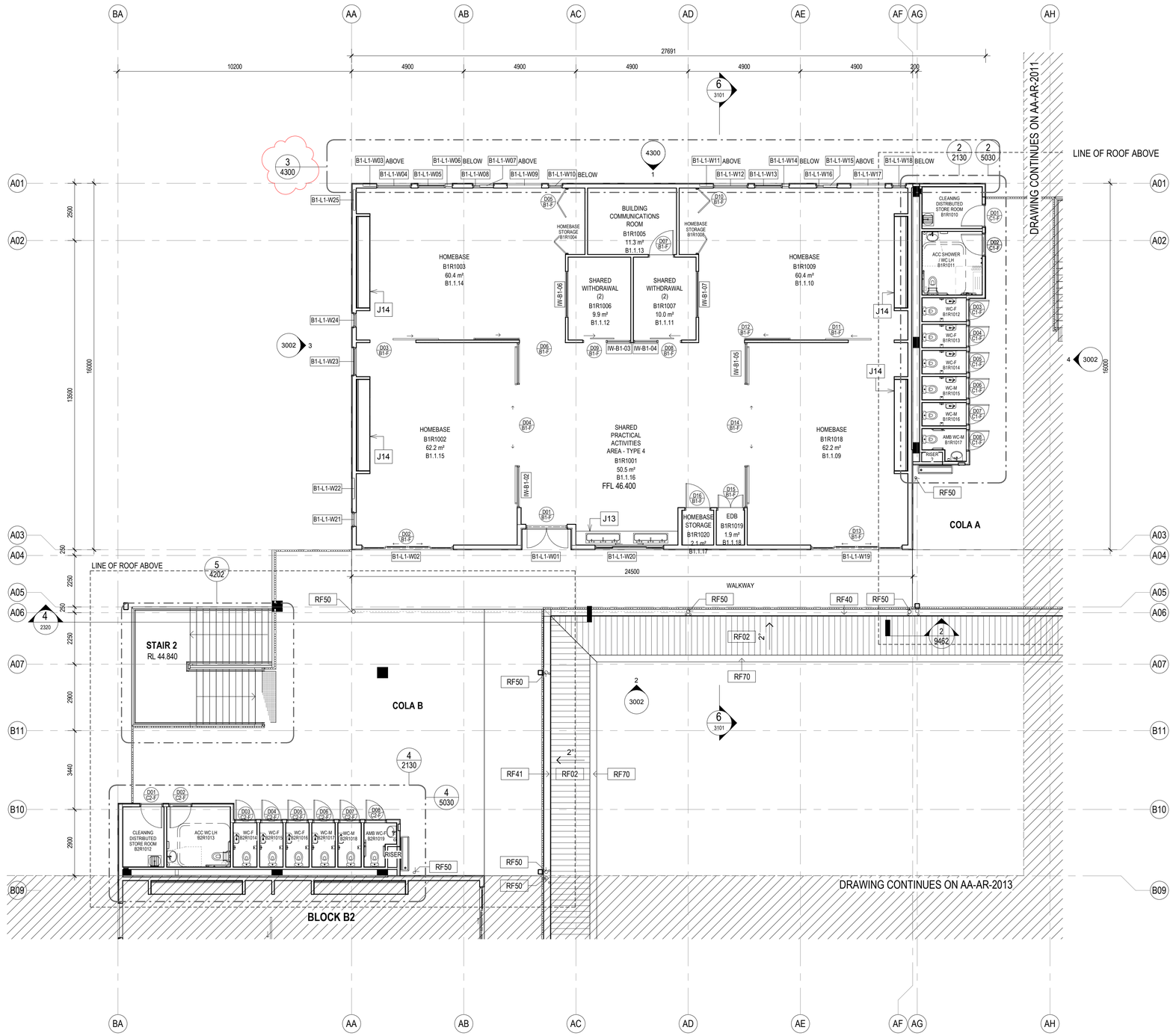
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK A - PART 2

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2011	2



1 BLOCK B1 - HOMEBASE - LEVEL 1
1 : 100

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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

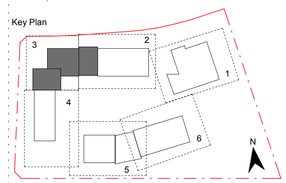
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	INTERNAL GLAZING	05.06.2019
G	DRAFT DETAILED DESIGN	14.06.2019
H	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019
2	ISSUED FOR CONSTRUCTION	29.08.19

Legend

- D01 C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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nom architect M. Sheldon 3990

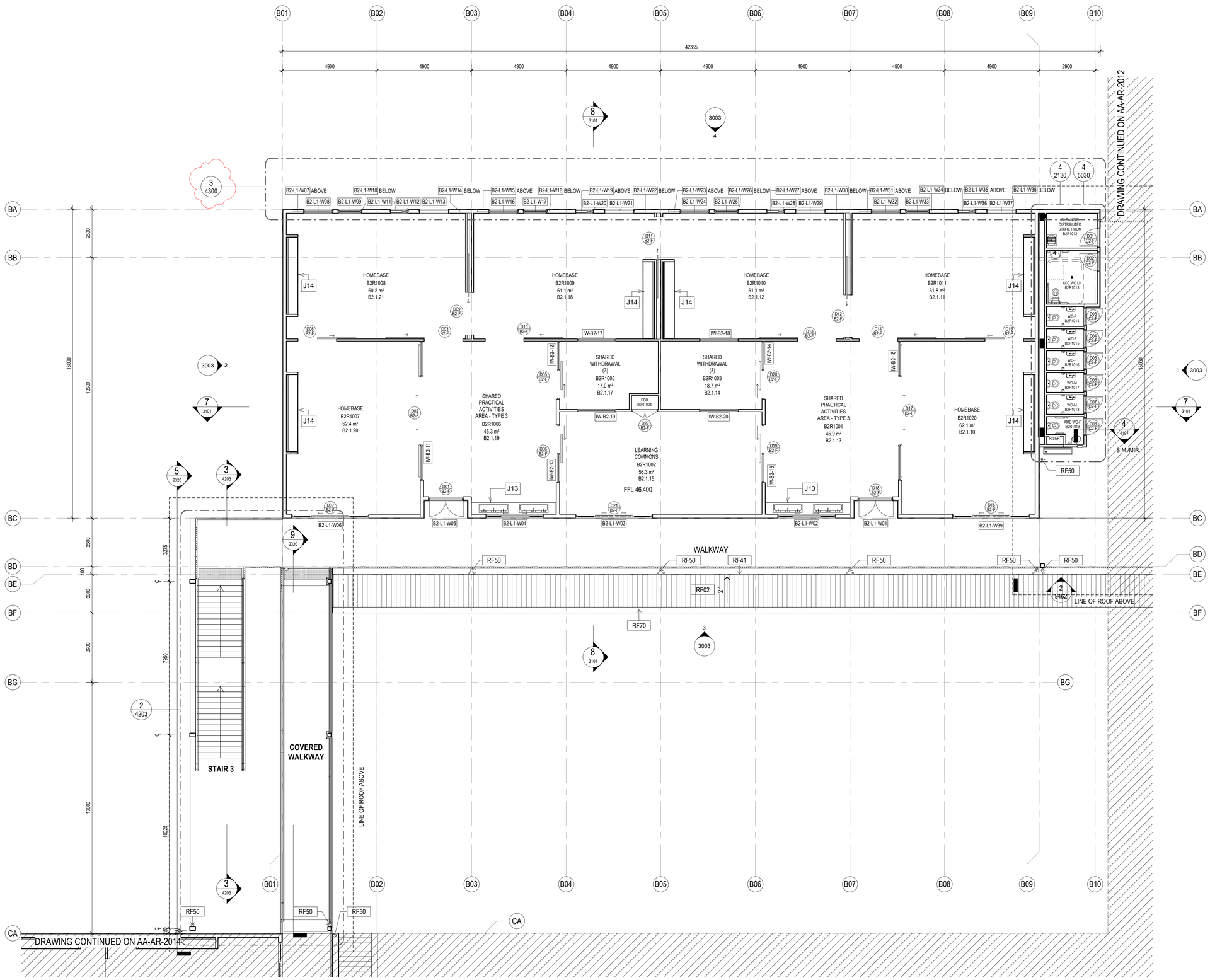
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B1 - PART 3

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2012	2

8/29/2019 11:22:03 AM



1 BLOCK B2 - HOMEBASE - LEVEL 1
1 : 100

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3. Refer to **COM-AR-9700** for Technical Schedule

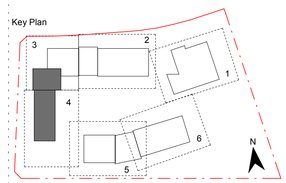
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	INTERNAL GLAZING	05.06.2019
G	DRAFT DETAILED DESIGN	14.06.2019
H	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019
2	ISSUED FOR CONSTRUCTION	29.08.19

Legend

- D01 C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



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nom architect M. Sheldon 3990

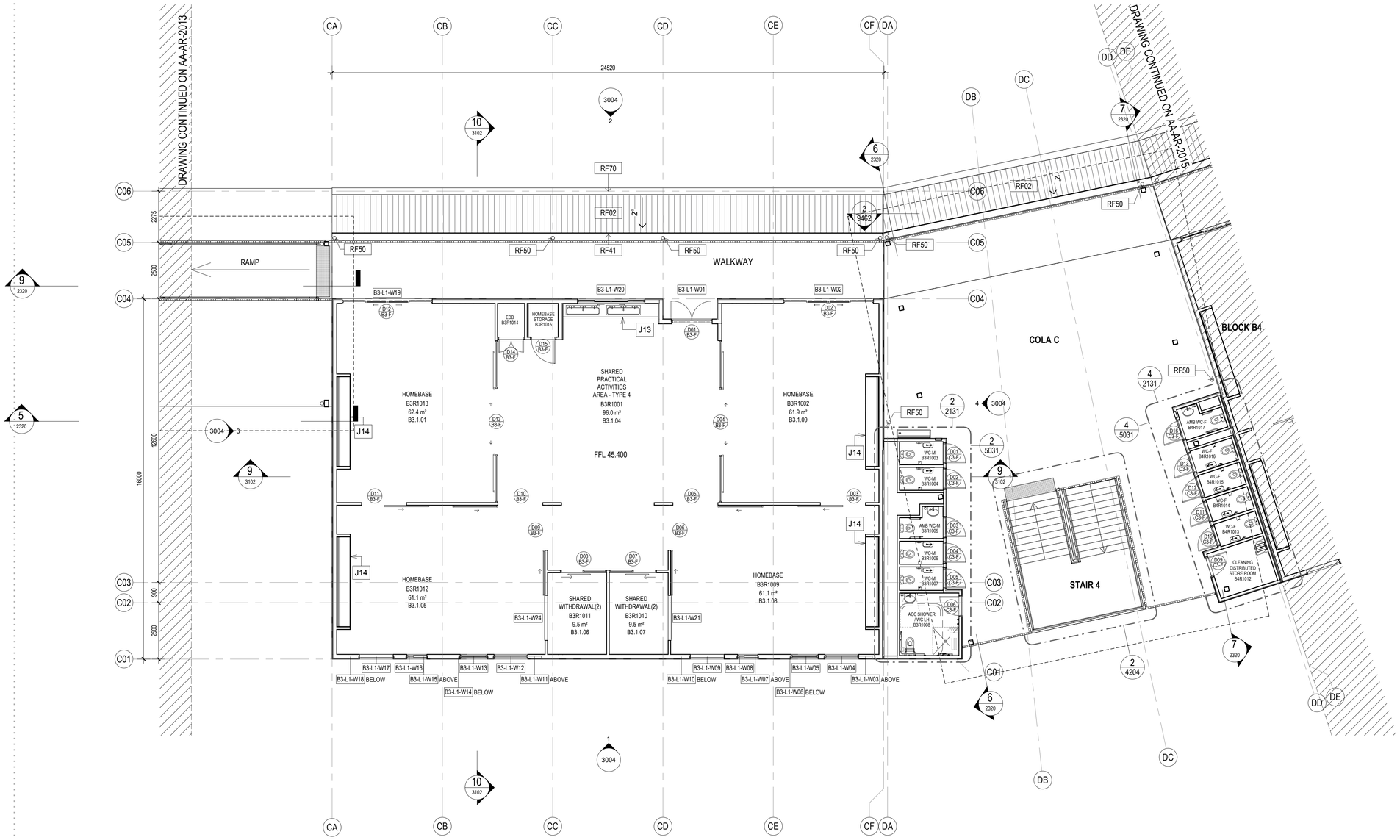
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B2 - PART 4

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2013	2

8/29/2019 11:22:08 AM



1 BLOCK B3 - HOMEBASE - LEVEL 1
1 : 100

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6. Any areas indicated on this sheet are approximate and indicative only.

Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

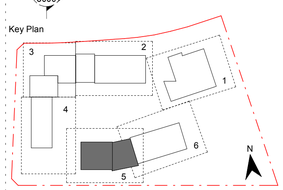
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

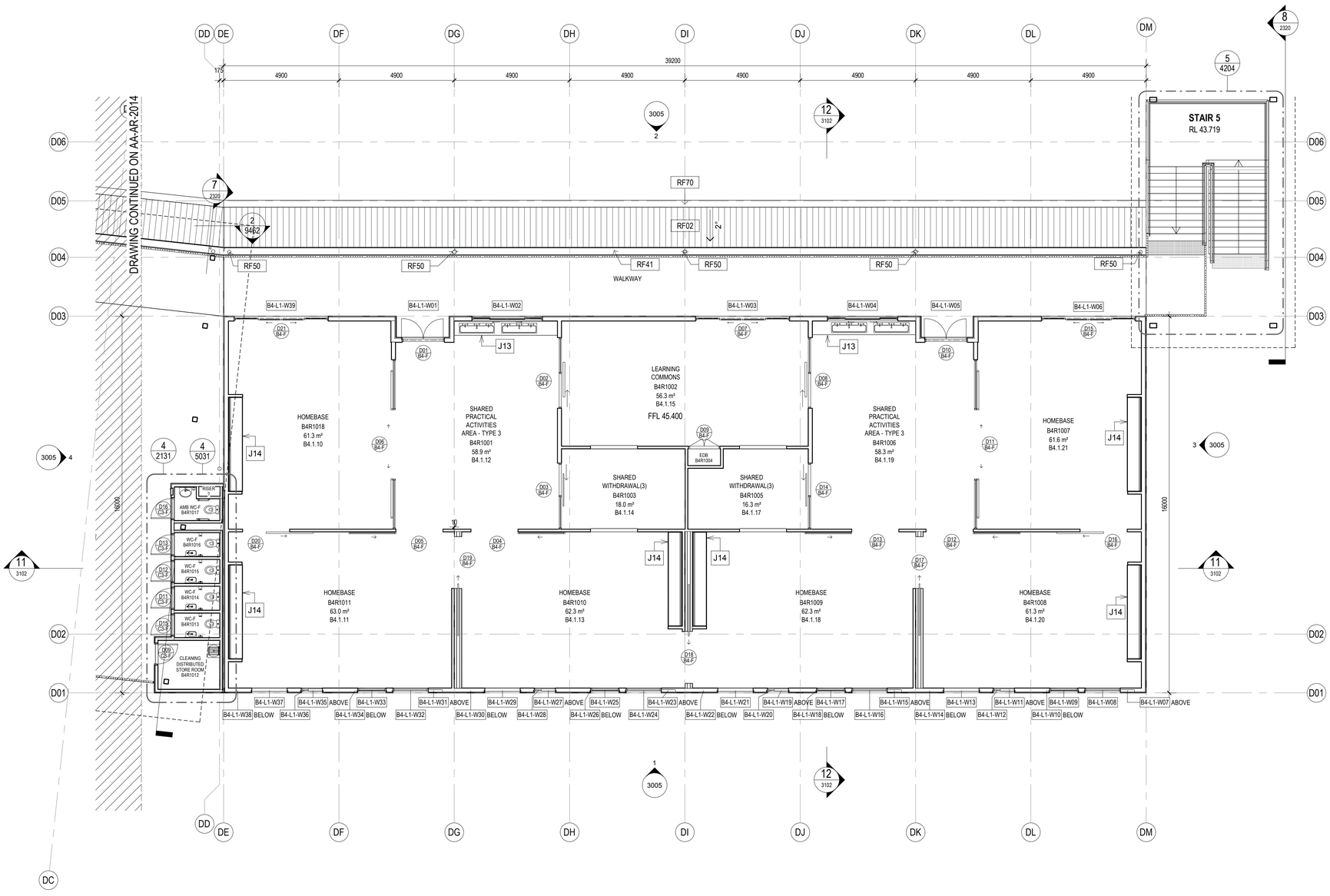
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B3 - PART 5

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2014	1

2/08/2019 7:22:27 PM



1 BLOCK B4 - HOMEBASE - LEVEL 1
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

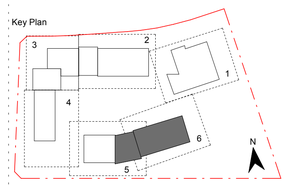
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B4 - PART 6

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2015	1

2/08/2019 7:22:50 PM

ROOF SYSTEMS:

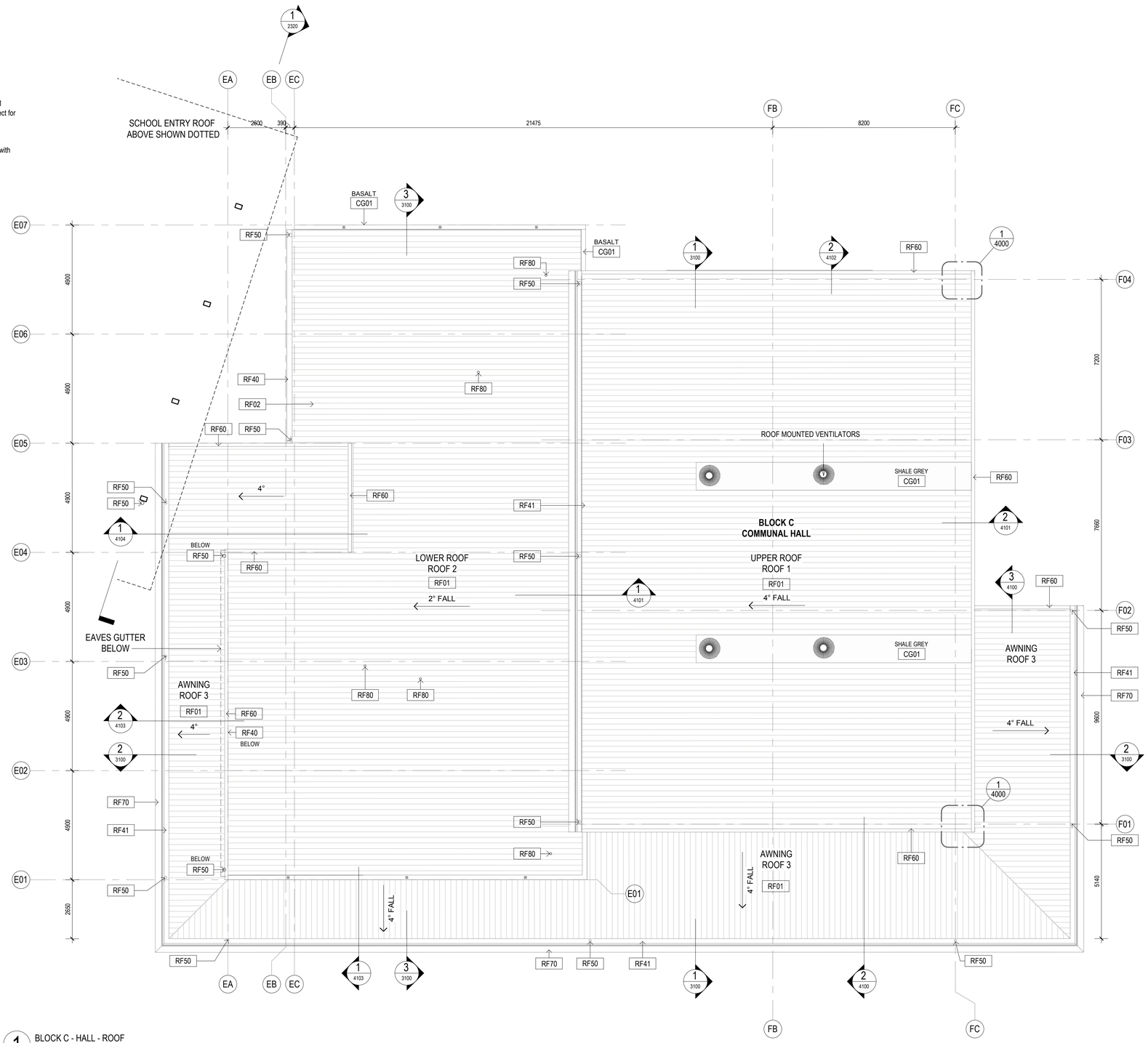
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK C - HALL - ROOF
1 : 100

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Drawing Notes:
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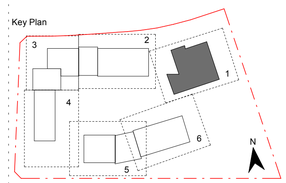
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	10.04.2019
C	DRAFT DETAILED DESIGN	17.04.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK C - PART 1

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	dn
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2020	1

2/08/2019 7:22:58 PM

ROOF SYSTEMS:

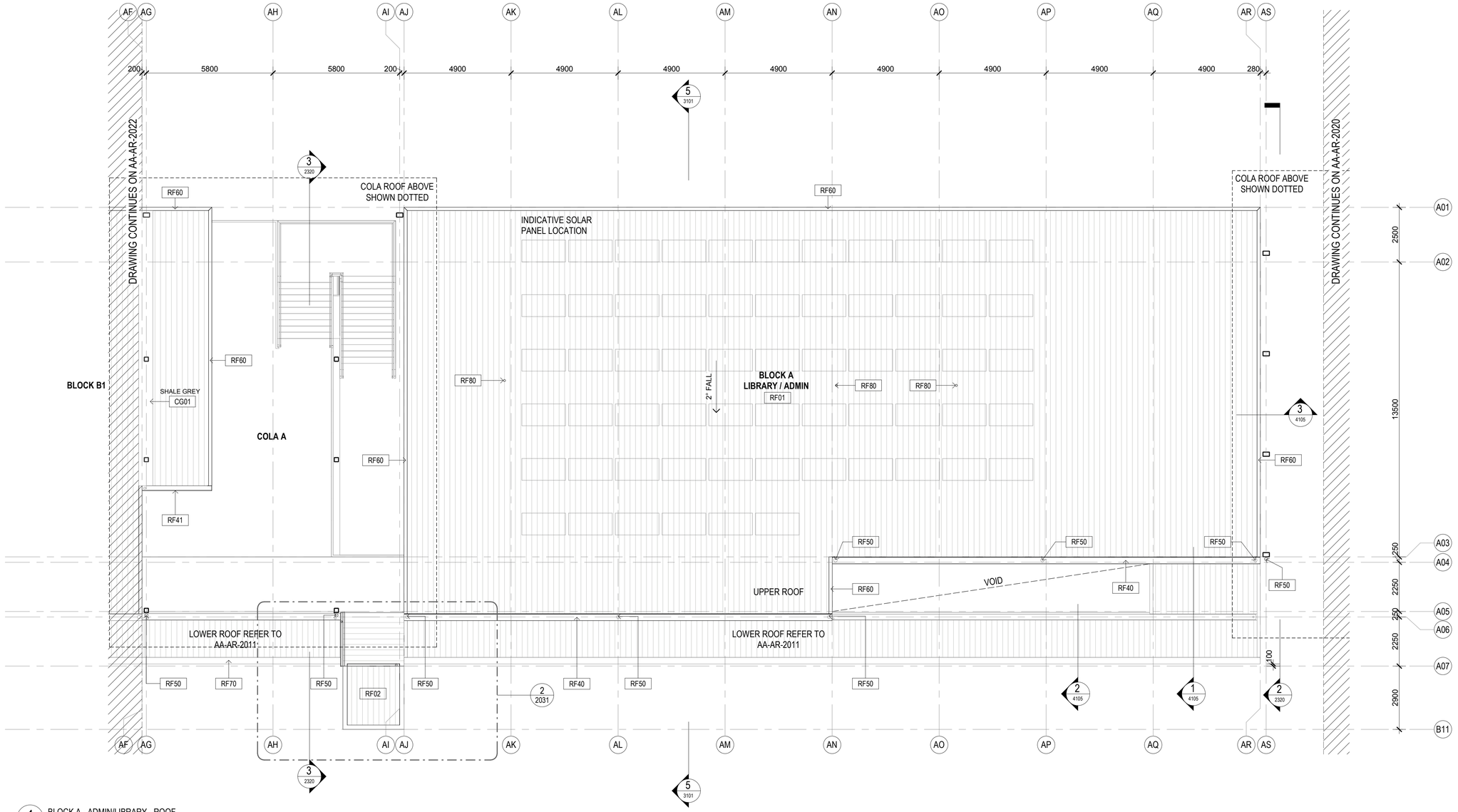
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK A - ADMIN/LIBRARY - ROOF
1 : 100

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Drawing Notes:
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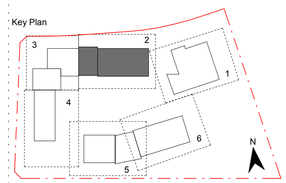
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK A - PART 2

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2021	1

ROOF SYSTEMS:

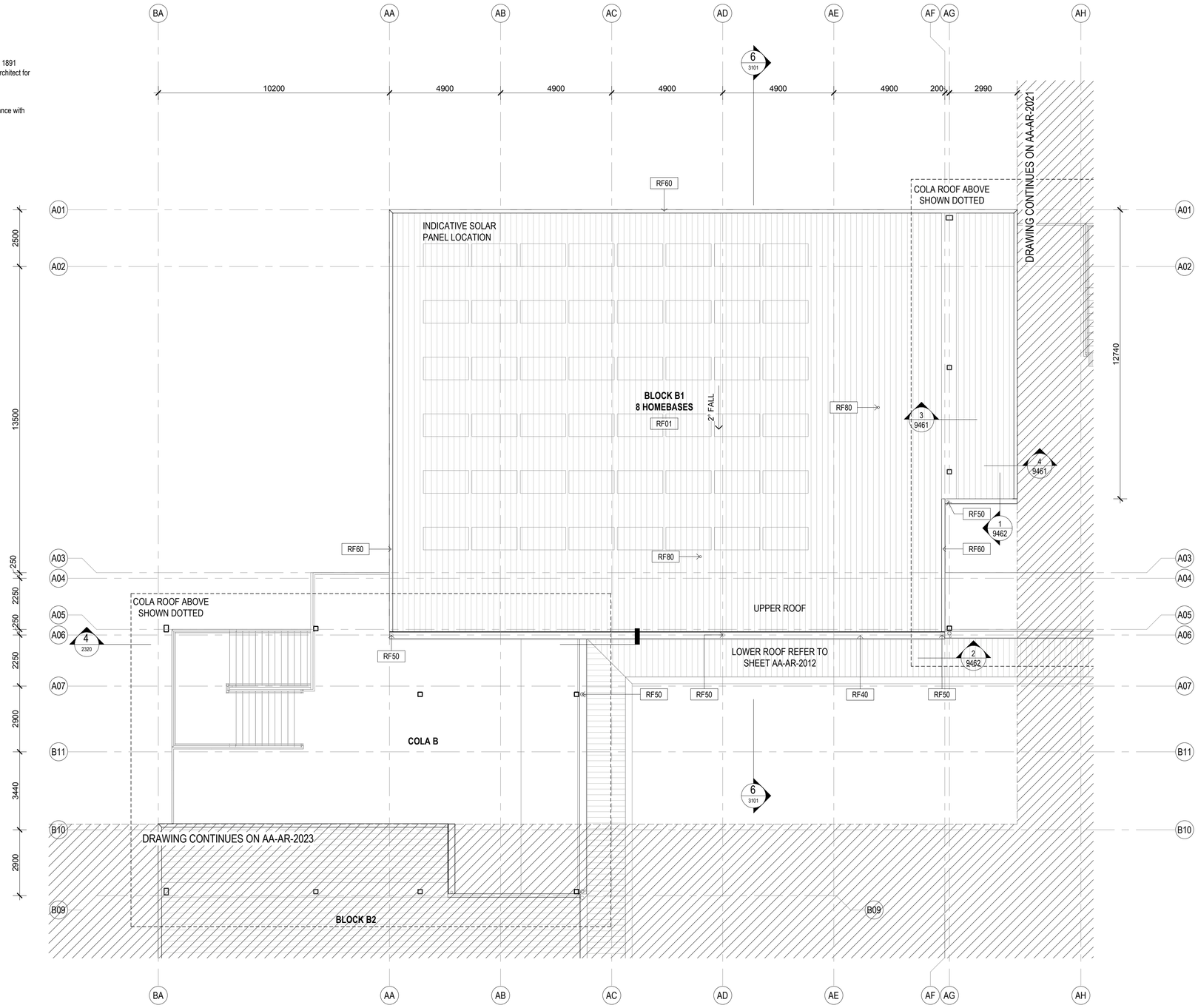
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B1 - HOMEBASE - ROOF
1 : 100

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Drawing Notes:
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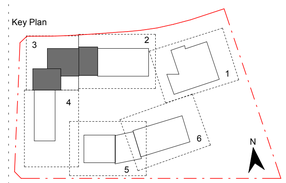
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B1 - PART 3

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2022	1

2/08/2019 7:23:22 PM

ROOF SYSTEMS:

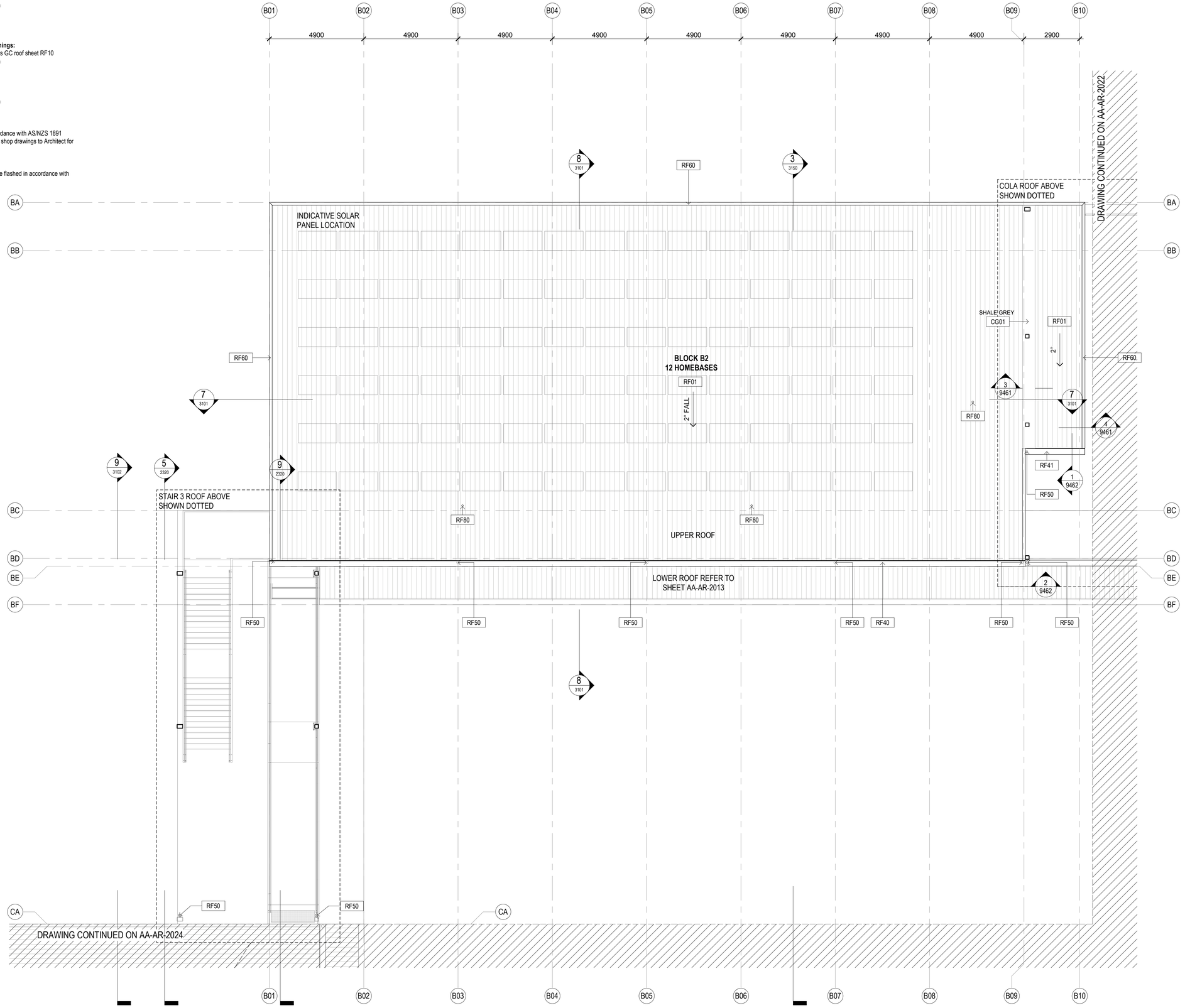
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B2 - HOMEBASE - ROOF
1 : 100

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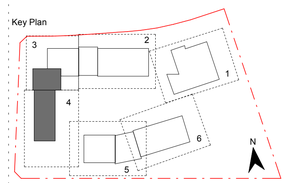
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B2 - PART 4

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2023	1

2/08/2019 7:23:31 PM

ROOF SYSTEMS:

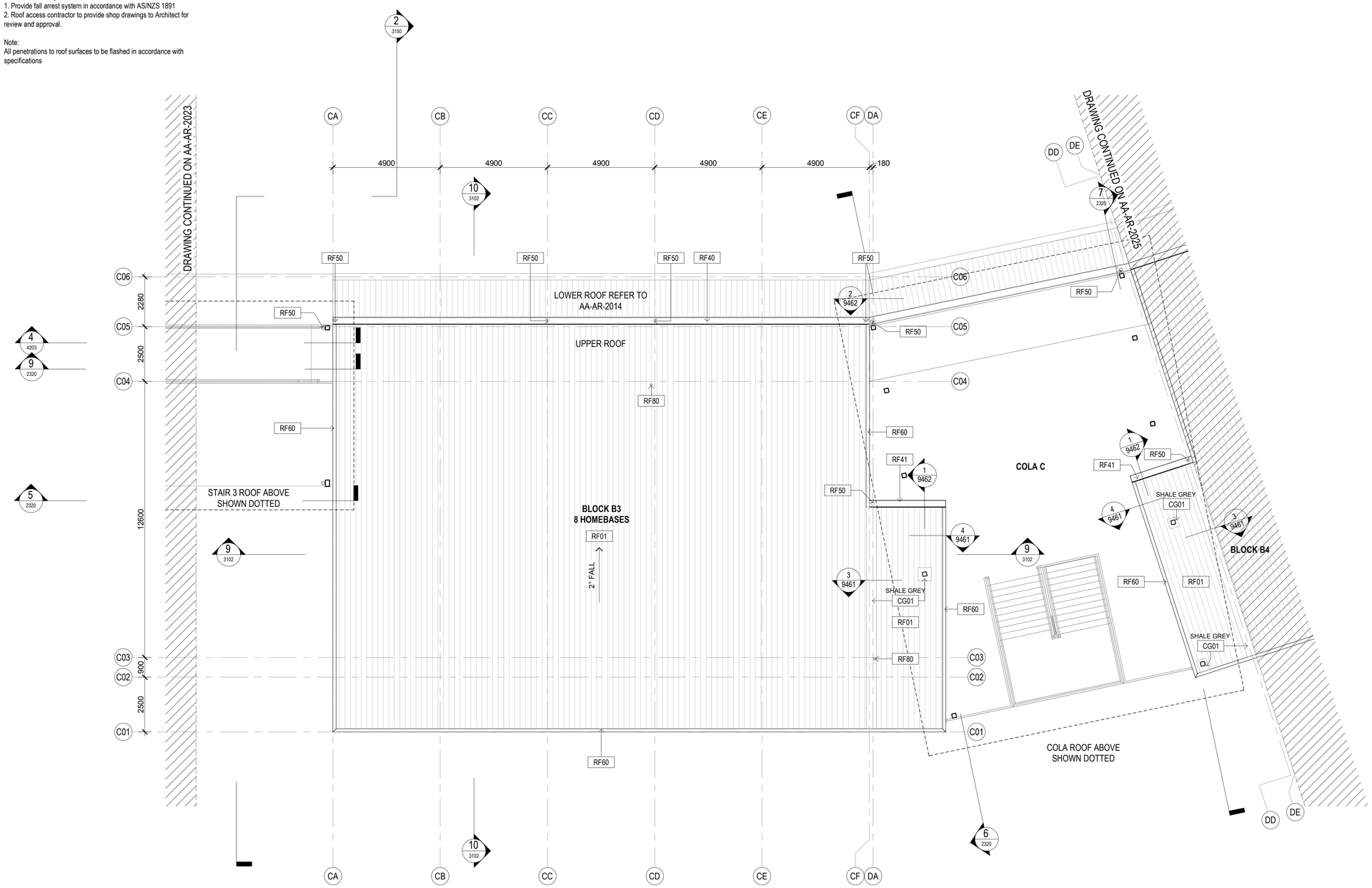
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B3 - HOMEBASE - ROOF
1 : 100

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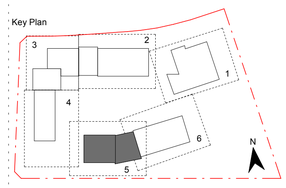
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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Client
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B3 - PART 5

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2024	1

2/08/2019 7:23:43 PM

ROOF SYSTEMS:

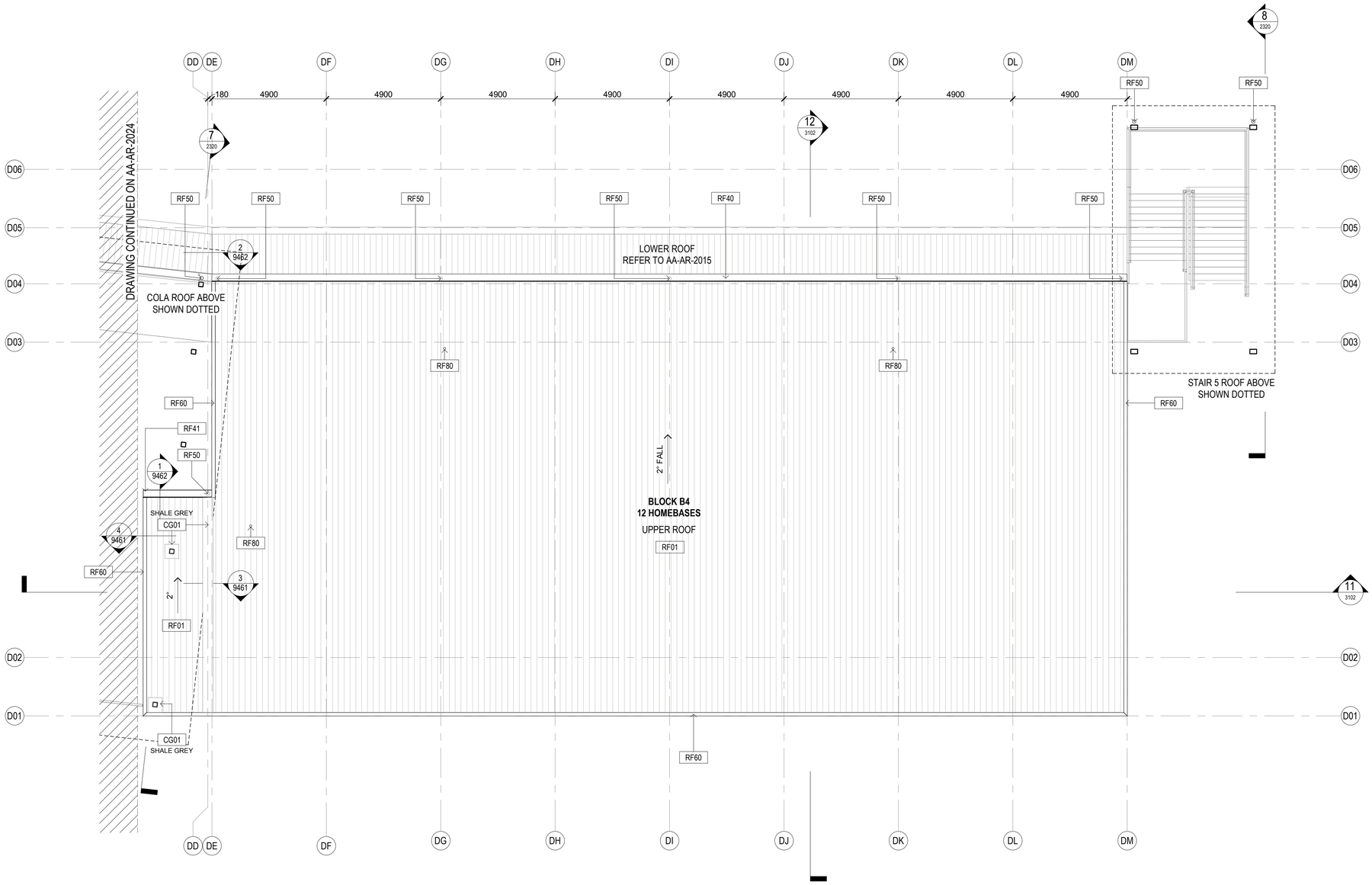
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B4 - HOMEBASE - ROOF
1 : 100

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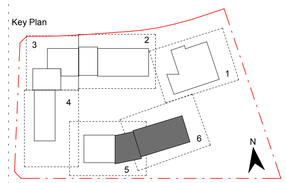
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B4 - PART 6

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2025	1

2/08/2019 7:23:32 PM

ROOF SYSTEMS:

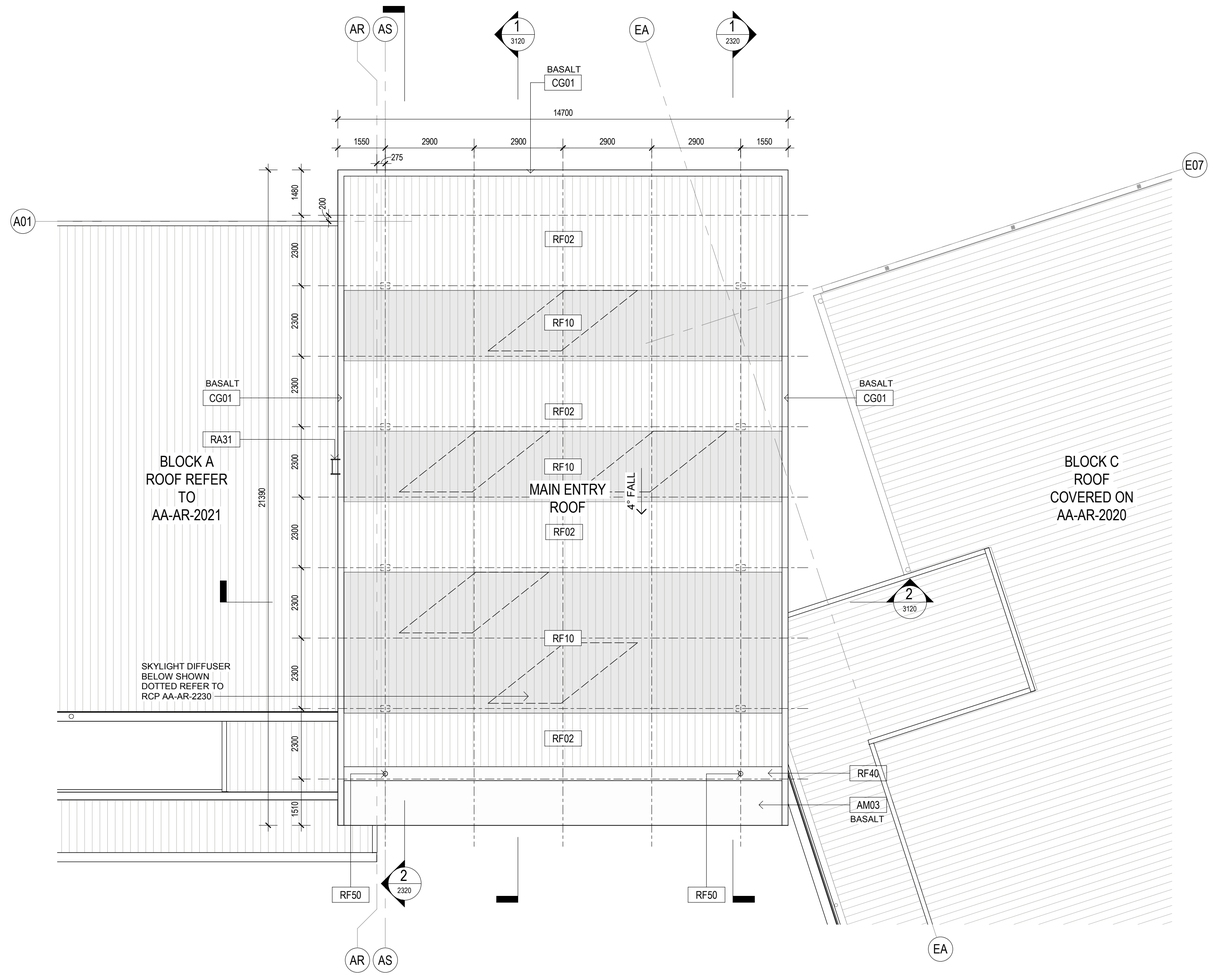
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK C - HALL - MAIN ENTRY ROOF
1 : 100

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3. Do not scale drawings. Dimensions govern.
4. All dimensions are in millimetres unless noted otherwise.
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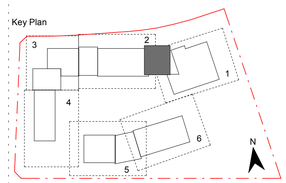
6. Any areas indicated on this sheet are approximate and indicative only.

Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
NSW GOVERNMENT Education

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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - CANOPY - MAIN ENTRY

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2030	1

2/08/2019 7:24:07 PM

ROOF SYSTEMS:

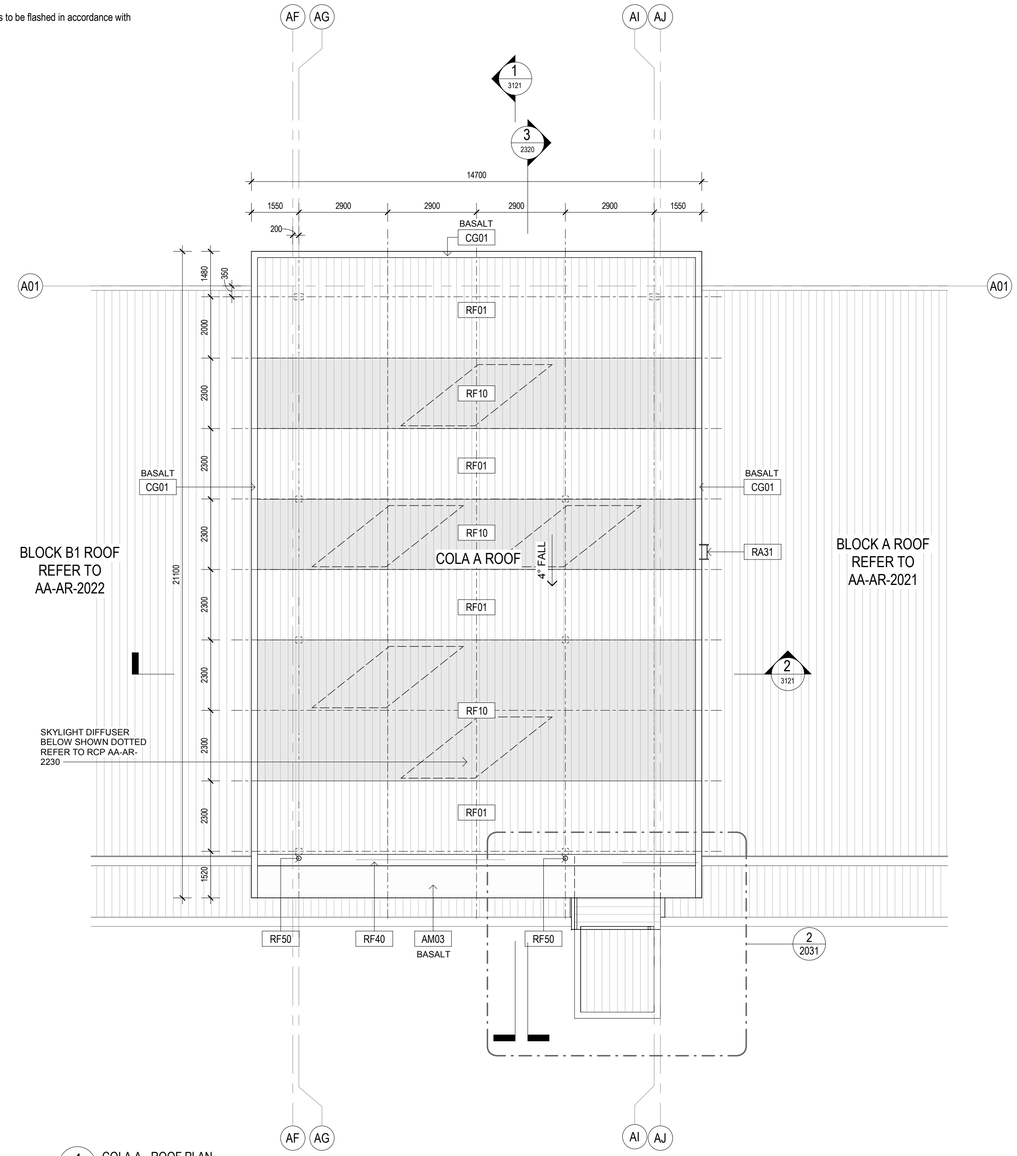
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

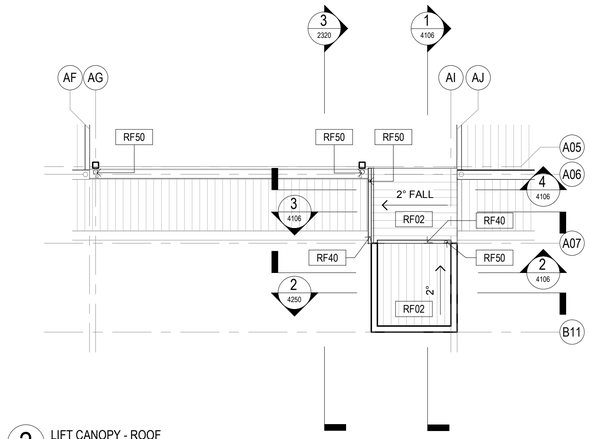
ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COLA A - ROOF PLAN
1 : 100



2 LIFT CANOPY - ROOF
1 : 100

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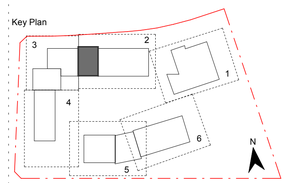
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
NSW GOVERNMENT Education

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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
ROOF PLAN - COLA A

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2031	1

2/08/2019 7:24:17 PM

ROOF SYSTEMS:

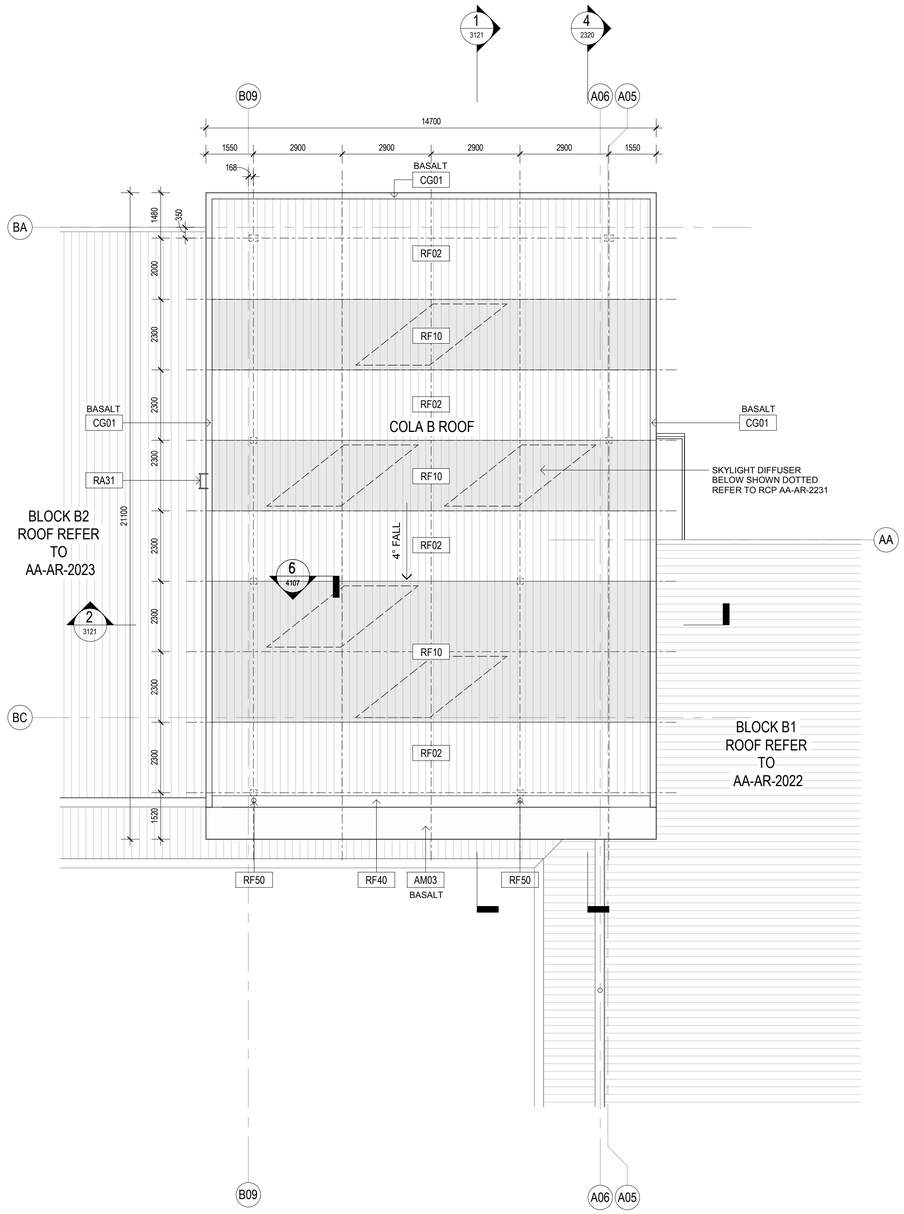
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COLA B - ROOF PLAN
1 : 100

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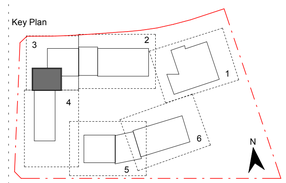
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
ROOF PLAN - COLA B

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2032	1

2/08/2019 7:24:22 PM

ROOF SYSTEMS:

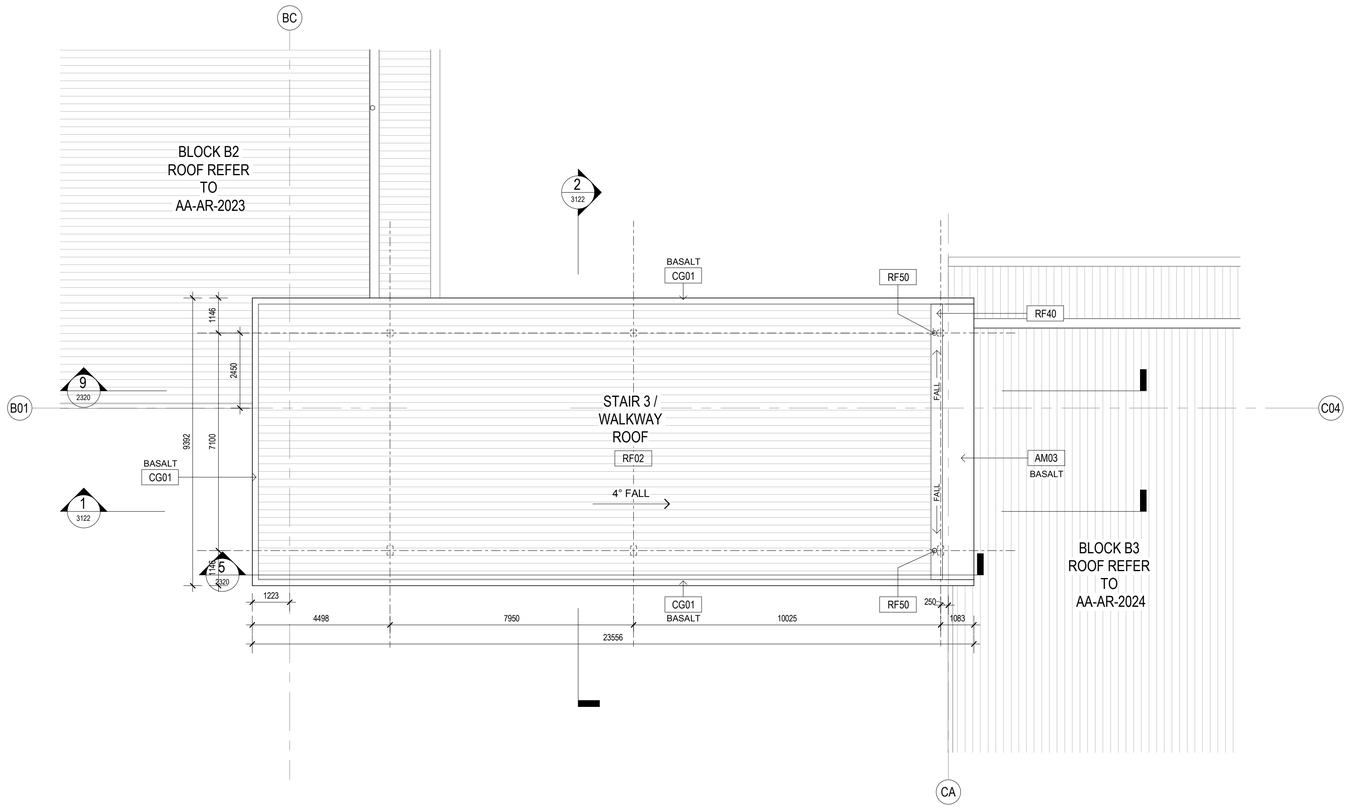
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COVERED WALKWAY STAIR 3 - ROOF
1 : 100

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Drawing Notes:
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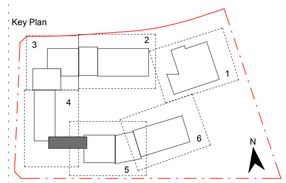
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
ROOF PLAN - CANOPY
STAIR 3 / WALKWAY

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2033	1

2/08/2019 7:24:26 PM

ROOF SYSTEMS:

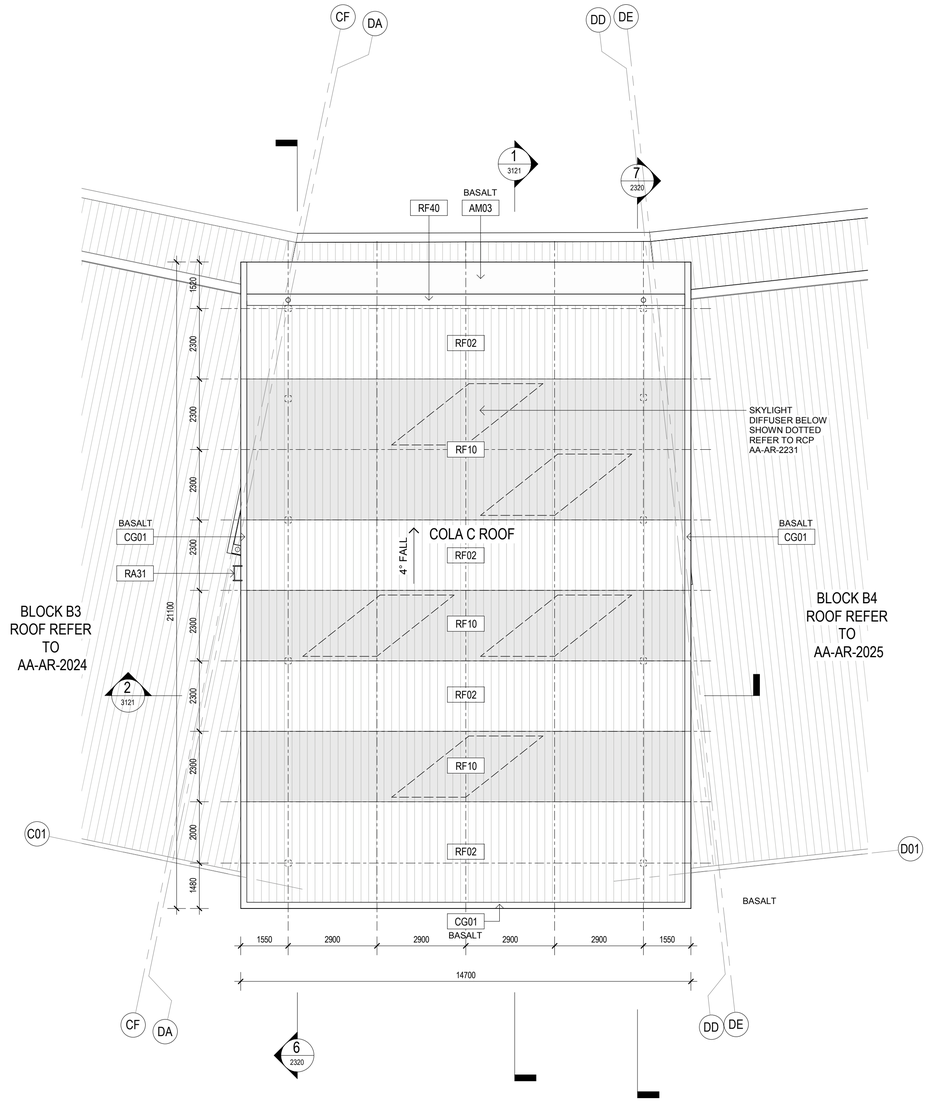
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COLA C - ROOF
1 : 100

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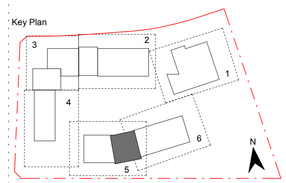
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
NSW GOVERNMENT Education

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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - COLA C

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2034	1

2/08/2019 7:24:31 PM

ROOF SYSTEMS:

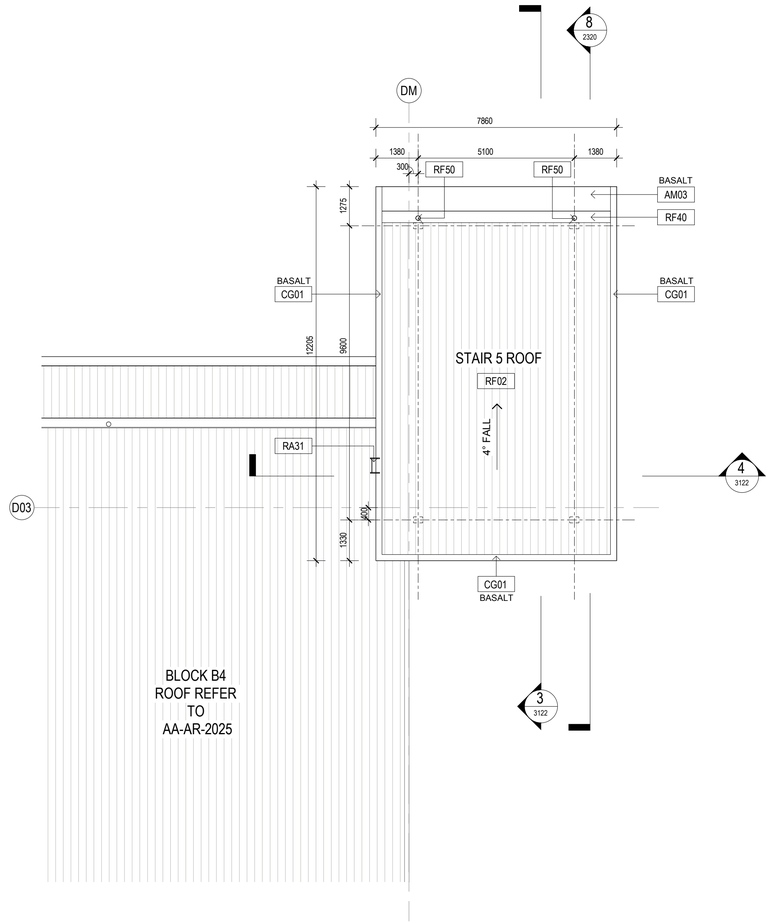
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COVERED STAIR 1 - ROOF
1 : 100

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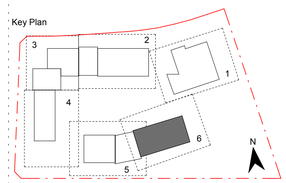
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	DRAFT DETAILED DESIGN	14.06.2019
D	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

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NSW GOVERNMENT Education

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architecture interior design urban design landscape
nom architect M. Sheldon 3990

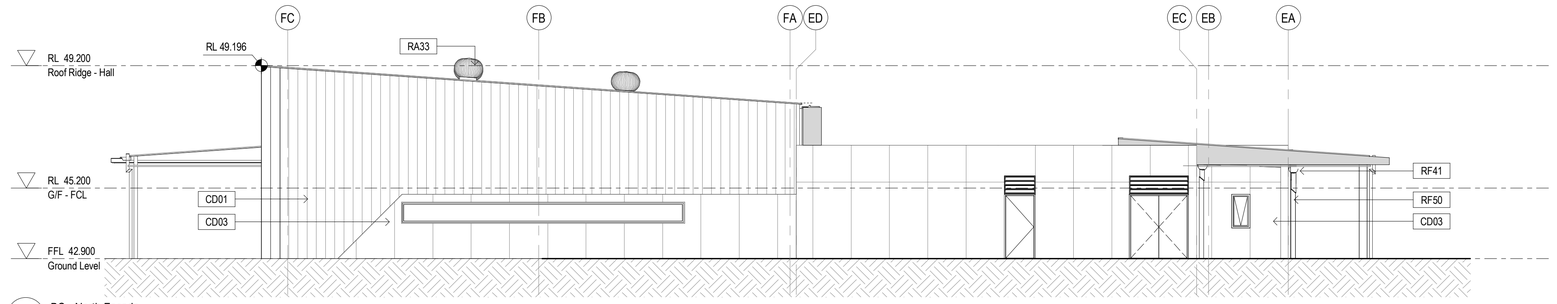
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - CANOPY - B4/ STAIR 5

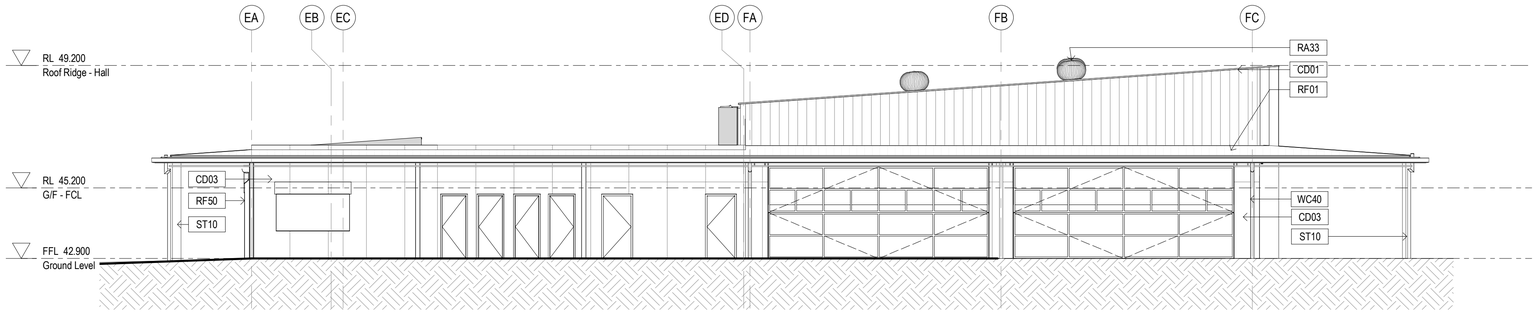
Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2035	1

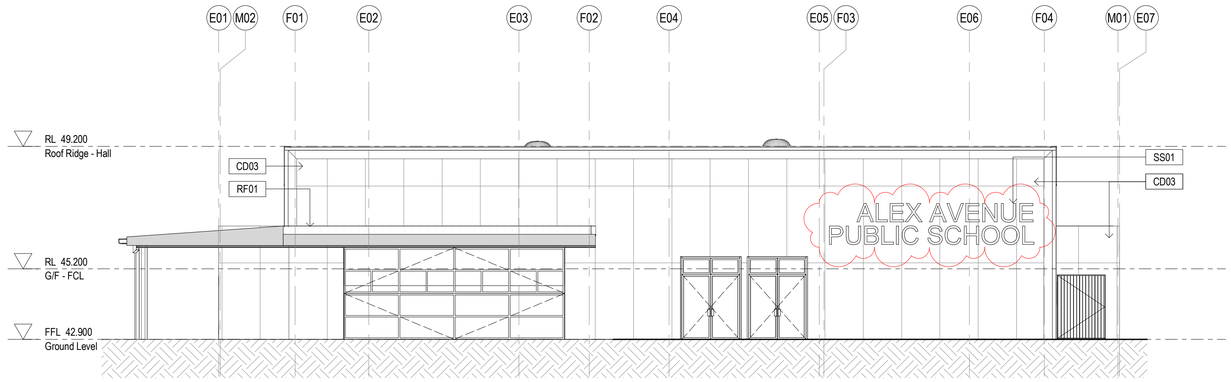
2/08/2019 7:24:44 PM



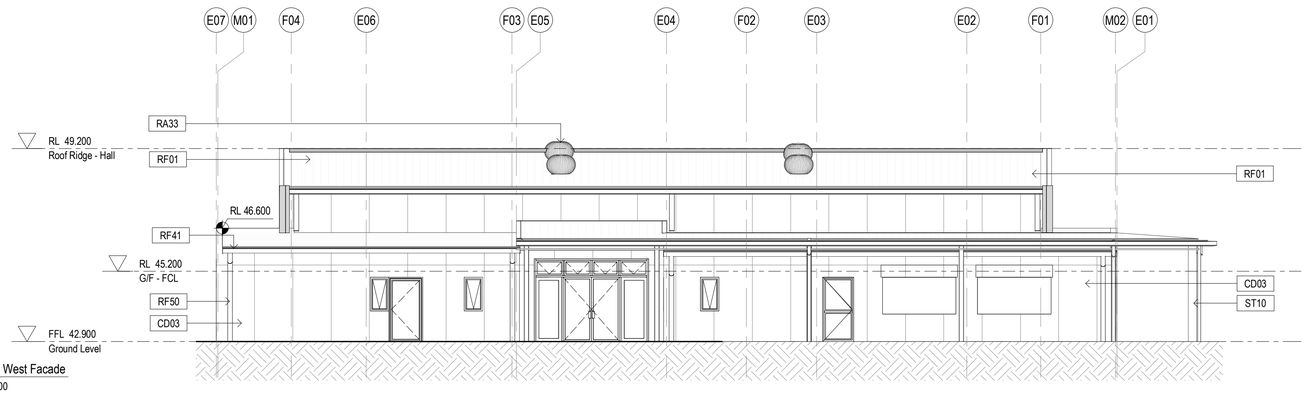
1 BC - North Facade
1 : 100



2 BC - South Facade
1 : 100



3 BC - East Facade
1 : 100



4 BC - West Facade
1 : 100

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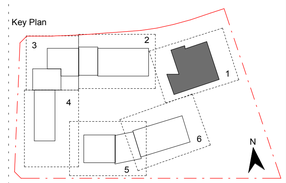
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	10.04.2019
C	DRAFT DETAILED DESIGN	17.04.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
NSW GOVERNMENT Education

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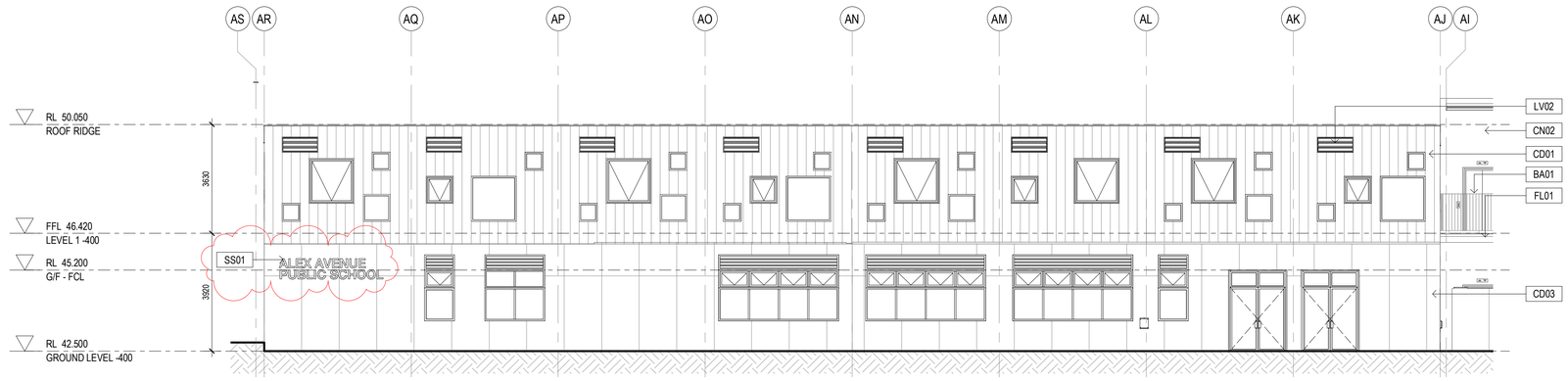
architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK C

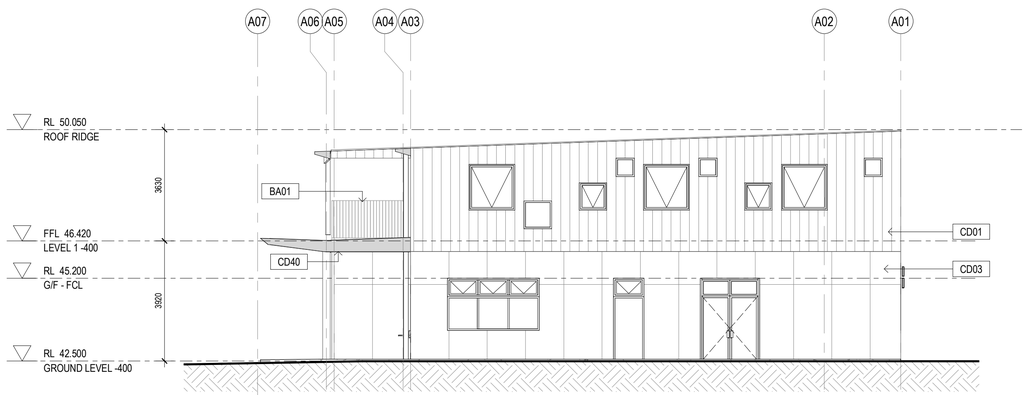
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3000	1

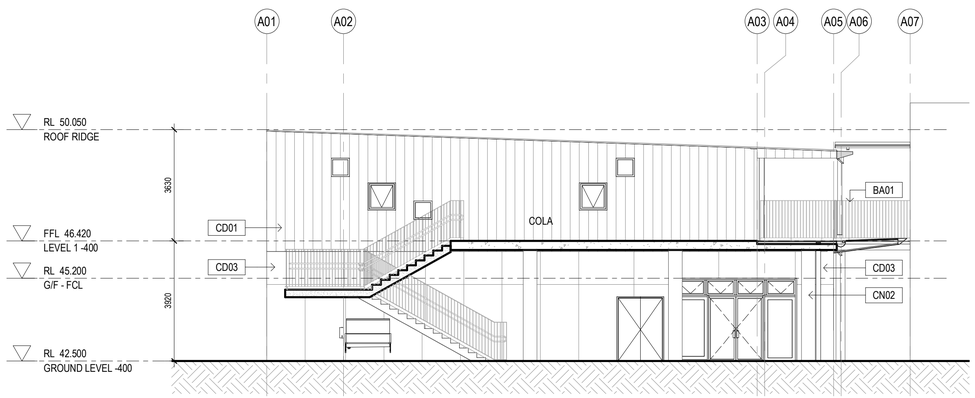


1 BA - North Facade
1 : 100

2 BA - South Facade
1 : 100



3 BA - East Facade
1 : 100



4 BA - West Section-Elevation
1 : 100

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Drawing Notes:
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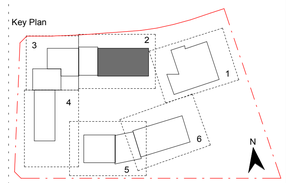
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	WINDOW LOCATIONS REVISED	07.06.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



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architecture interior design urban design landscape
nom architect M. Sheldon 3990

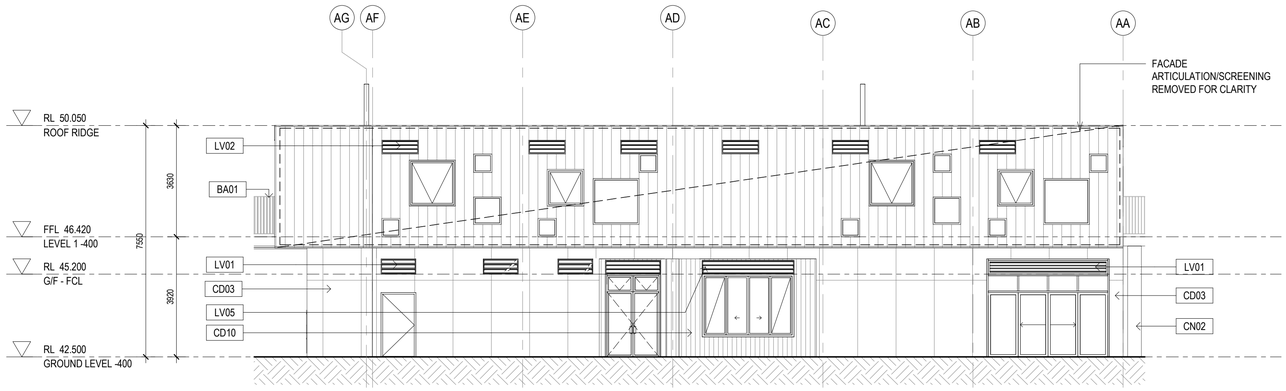
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK A

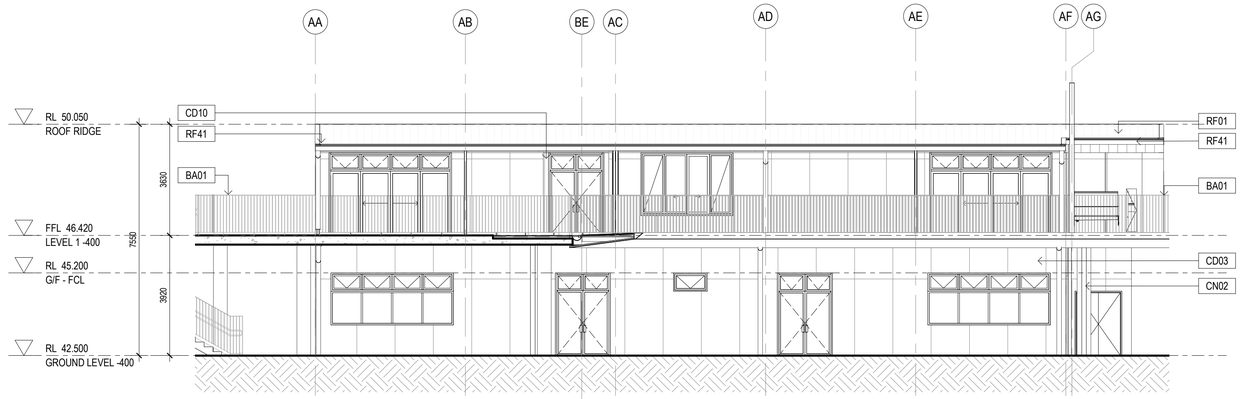
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3001	1

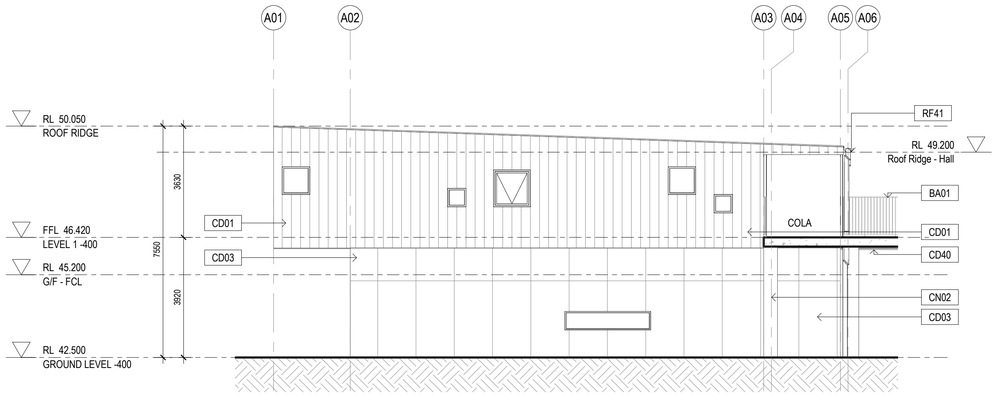
7/08/2019 8:39:12 PM



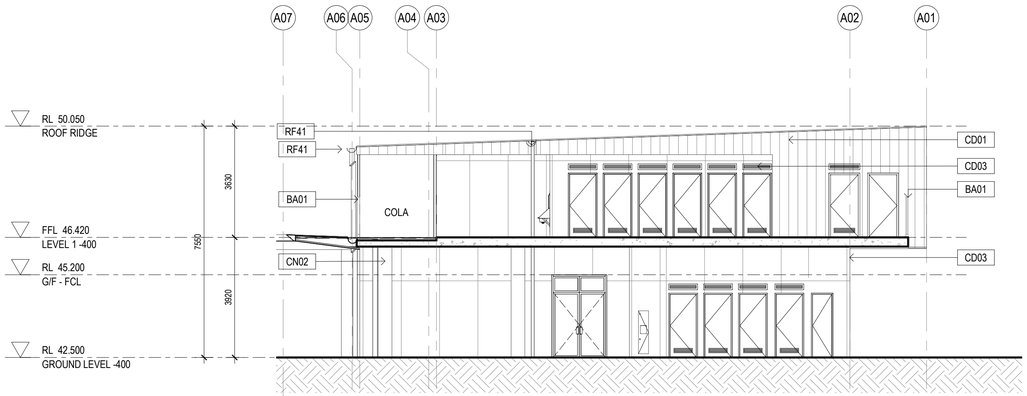
1 HOMEBASE B1 - North Facade
1 : 100



2 HOMEBASE B1 - South Facade
1 : 100



3 HOMEBASE B1 - West Facade
1 : 100



4 HOMEBASE B1 - East Section-Elevation
1 : 100

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Drawing Notes:
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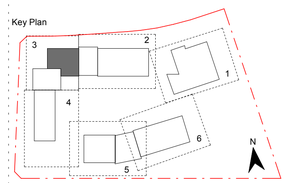
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	WINDOW ELEVATION AMENDED	14.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



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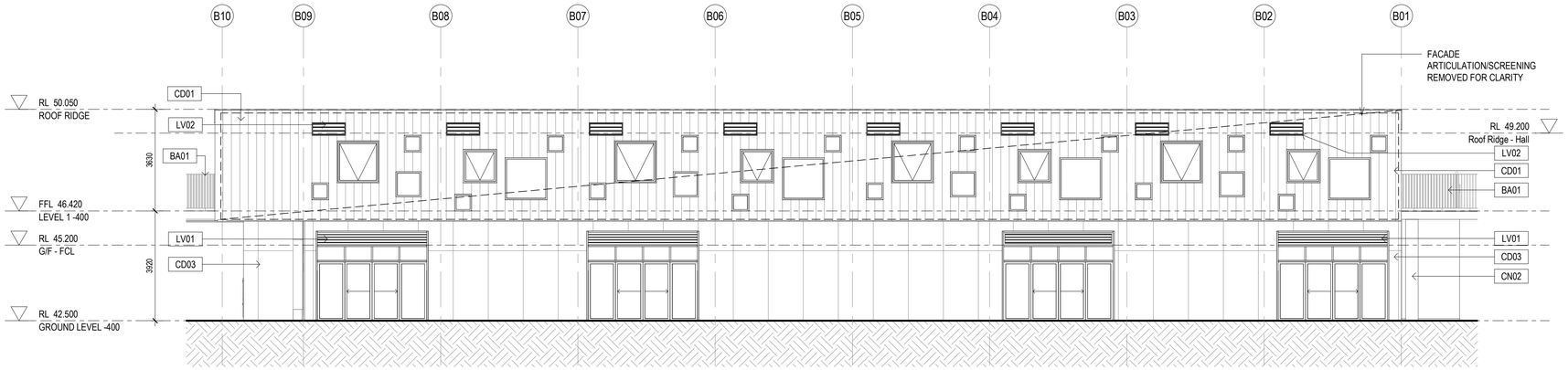
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B1

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

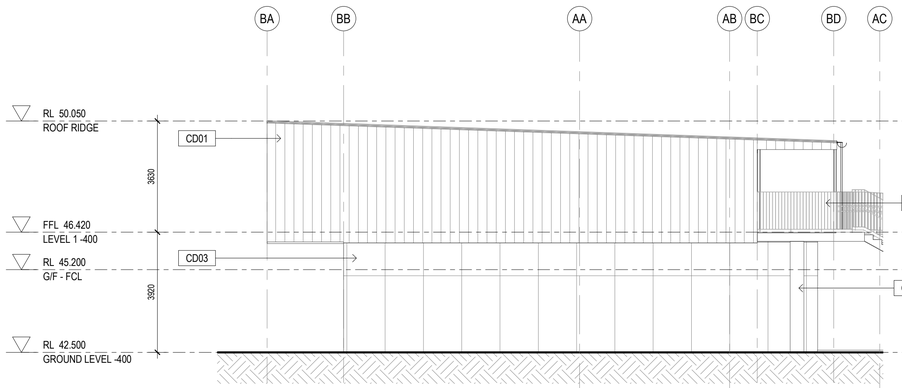
Project No	Drawing No	Issue
180645	AA-AR-3002	1

8/8/2019 9:08:31 AM

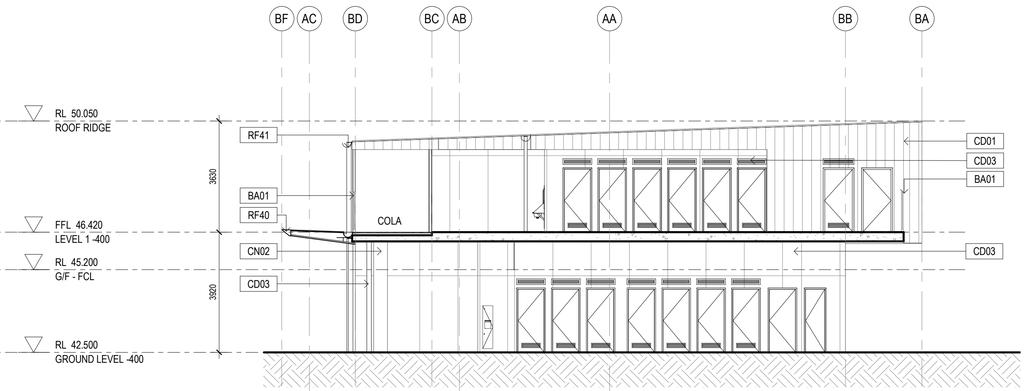


4 HOMEBASE B2 - West Facade
1 : 100

3 HOMEBASE B2 - East Facade
1 : 100



2 HOMEBASE B2 - South Facade
1 : 100



1 HOMEBASE B2- North Section-Elevation
1 : 100

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Drawing Notes:
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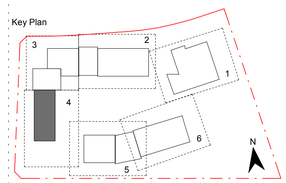
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



Contractor
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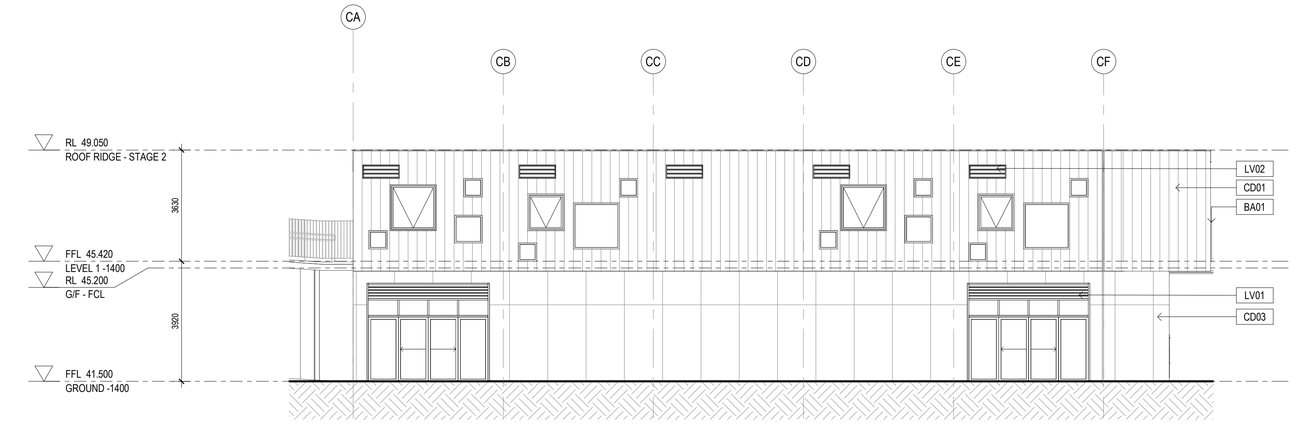
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B2

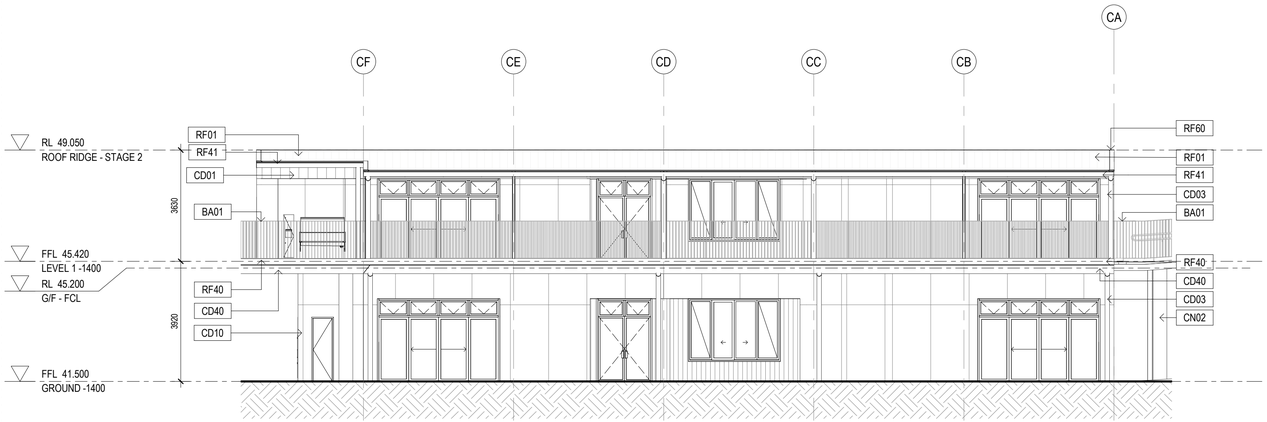
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3003	1

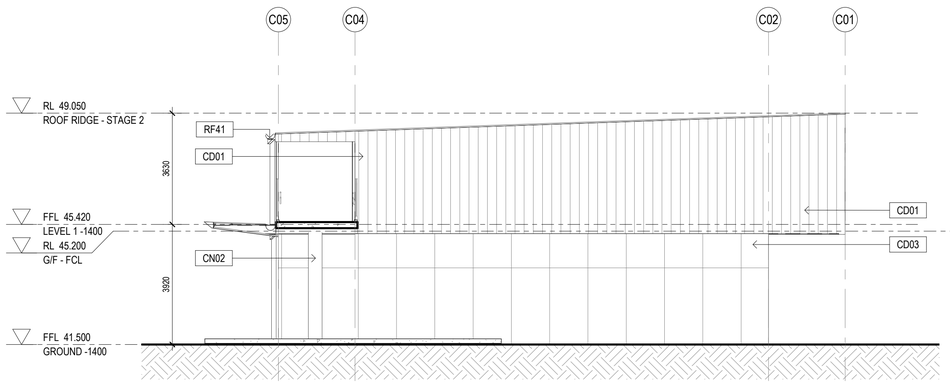
8/8/2019 9:08:37 AM



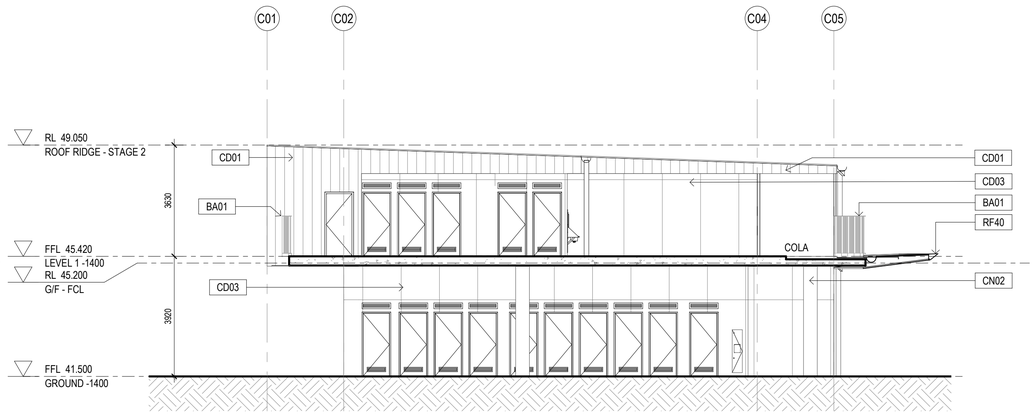
1 HOMEBASE B3 - South Facade
1 : 100



2 HOMEBASE B3 - North Facade
1 : 100



3 HOMEBASE B3 - West Facade
1 : 100



4 HOMEBASE B3 - East Section-Elevation
1 : 100

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Drawing Notes:
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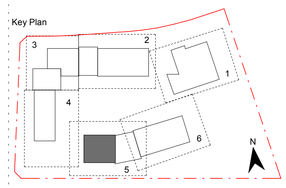
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

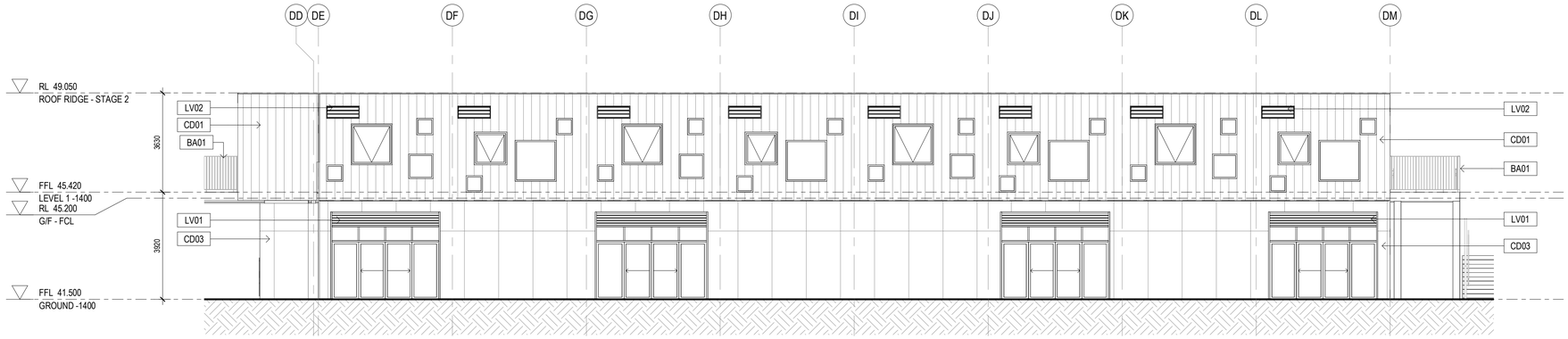
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B3

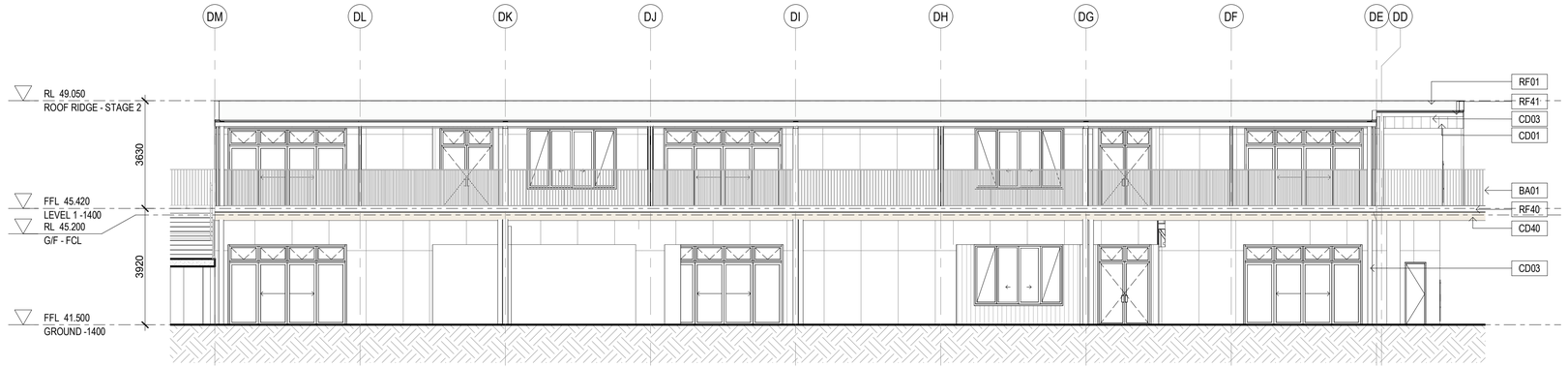
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3004	1

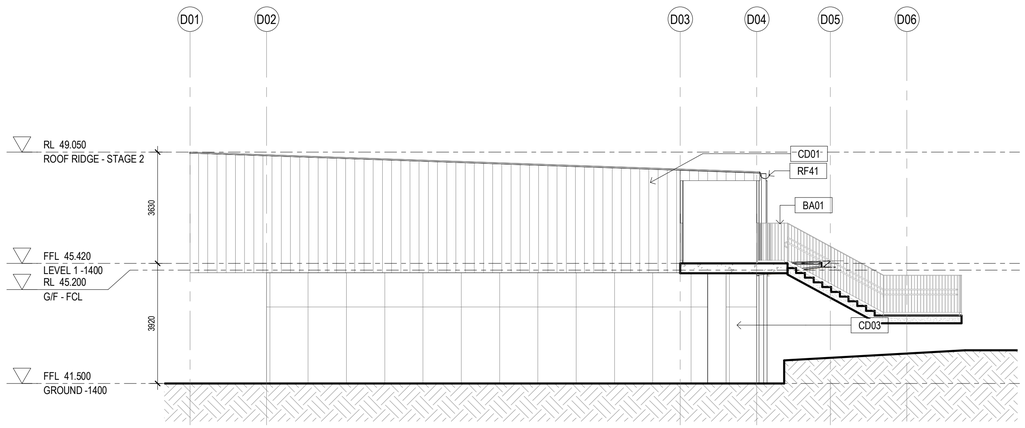
8/8/2019 9:08:49 AM



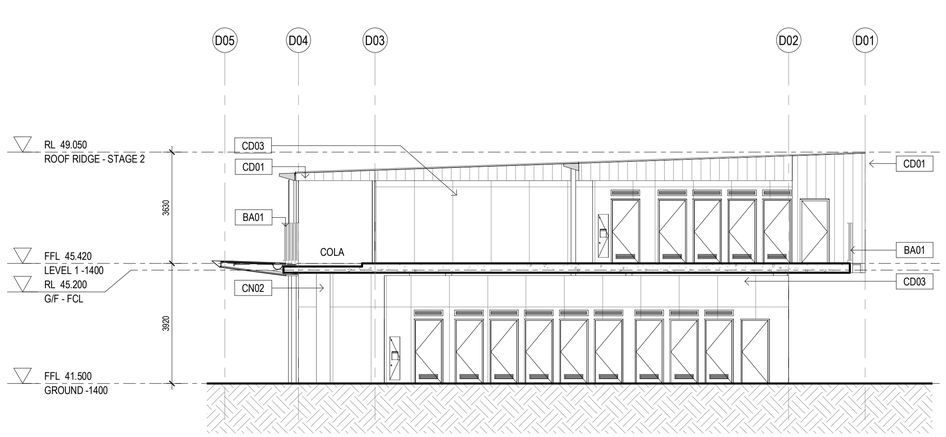
1 HOMEBASE B4 - South Facade
1 : 100



2 HOMEBASE B4 - North Facade
1 : 100



3 HOMEBASE B4 - East Facade
1 : 100



4 HOMEBASE B4 - West Section-Elevation
1 : 100

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Drawing Notes:
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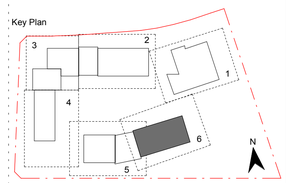
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

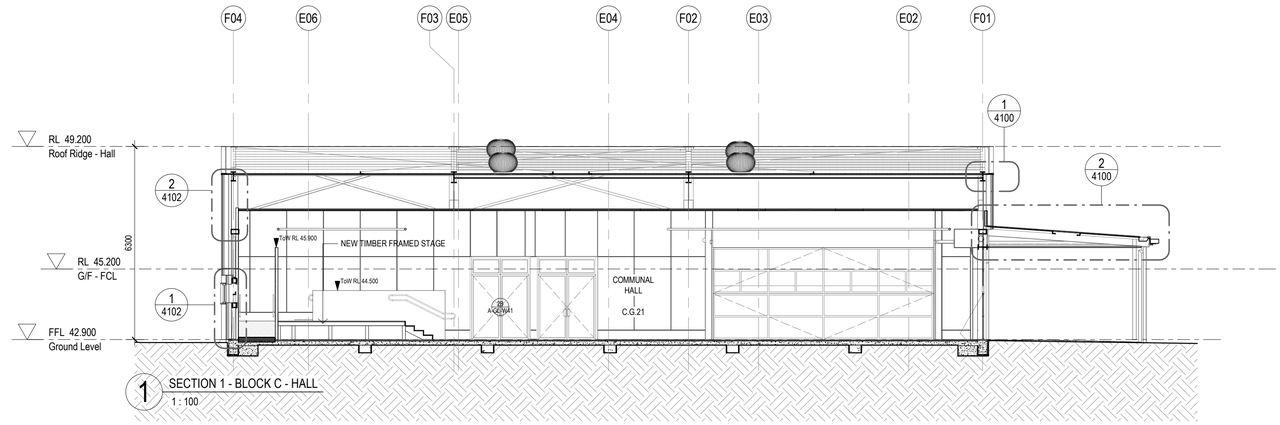
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B4

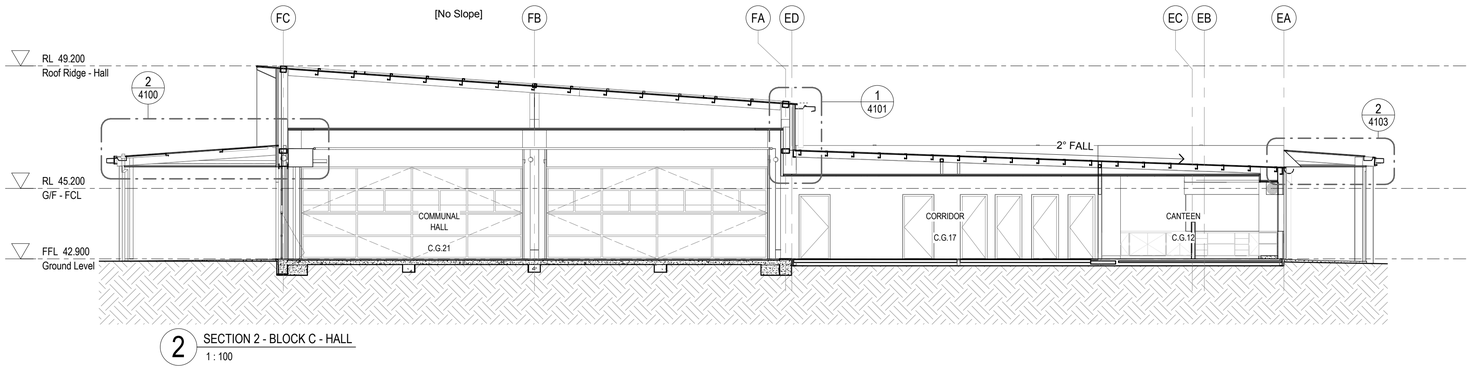
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3005	1

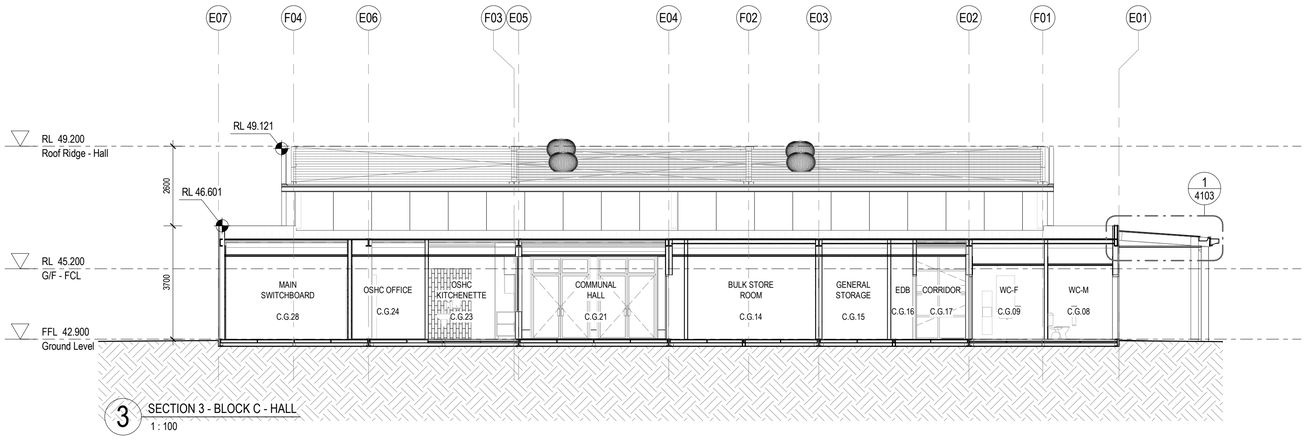
7/08/2019 8:40:02 PM



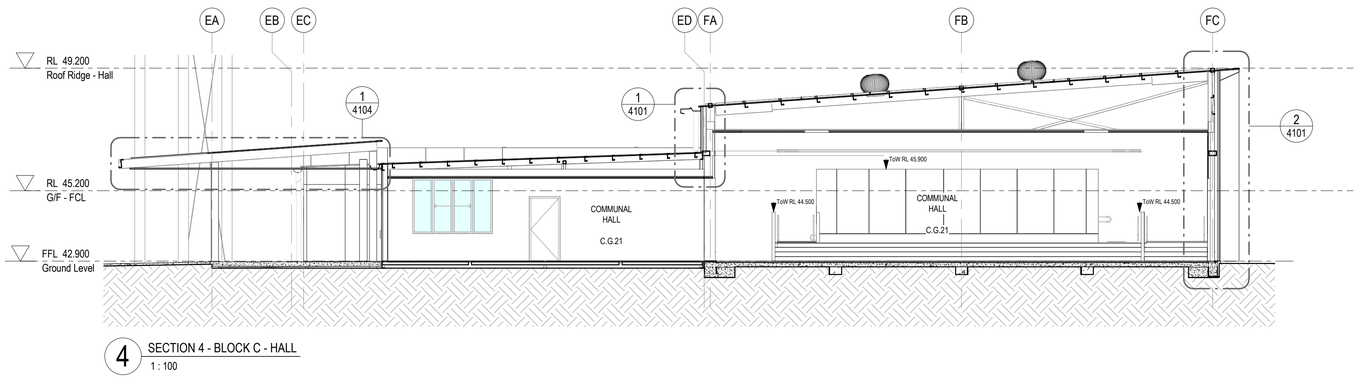
1 SECTION 1 - BLOCK C - HALL
1 : 100



2 SECTION 2 - BLOCK C - HALL
1 : 100



3 SECTION 3 - BLOCK C - HALL
1 : 100



4 SECTION 4 - BLOCK C - HALL
1 : 100

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5. All dimensions shall be verified on site before proceeding
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Drawing Notes:
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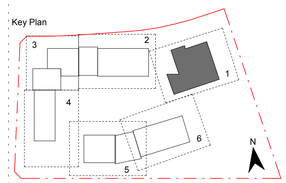
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	ISSUED FOR INFORMATION	11.06.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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Client
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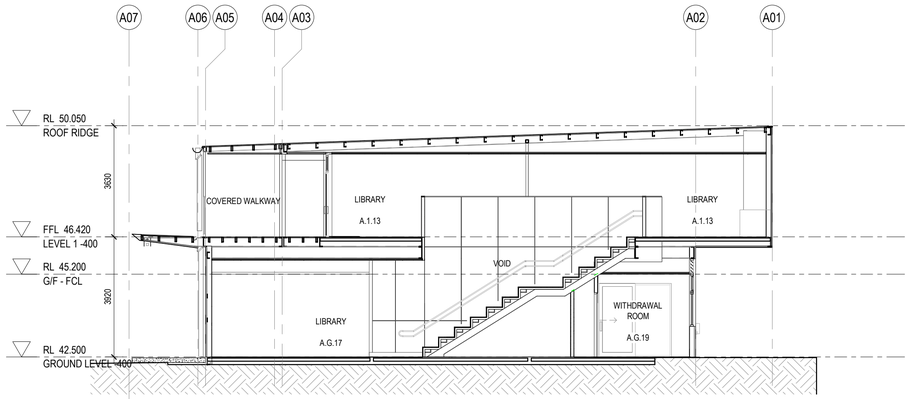
Project Title
ALEX AVENUE
PUBLIC SCHOOL

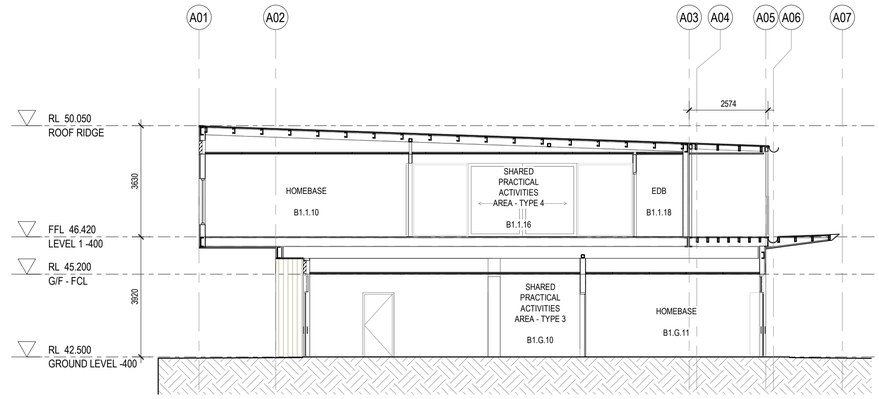
Drawing Title
SECTIONS - BLOCK C

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	OM
Plotted and checked by	RF
Verified	JS
Approved	MB

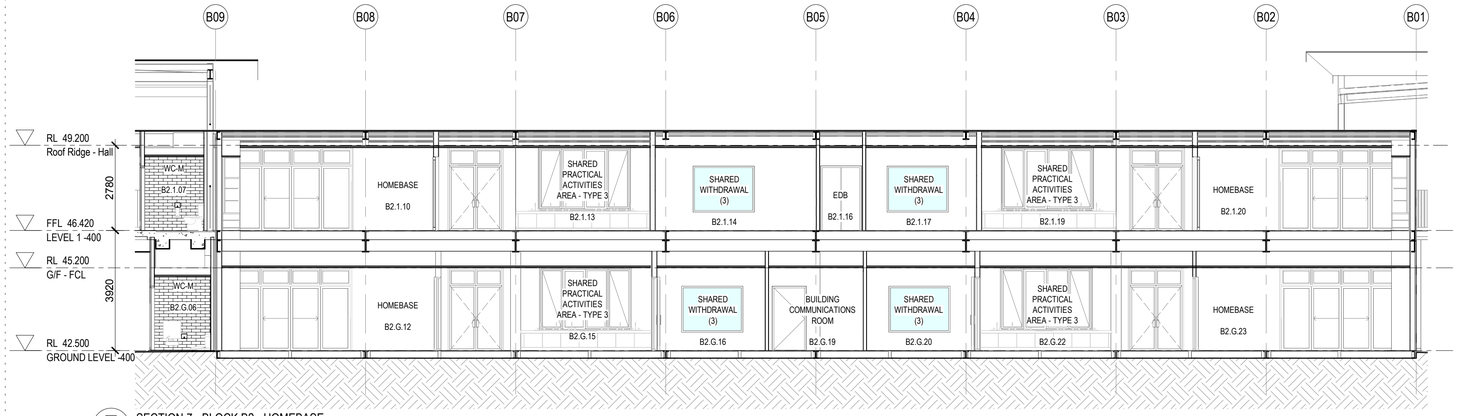
Project No	Drawing No	Issue
180645	AA-AR-3100	1



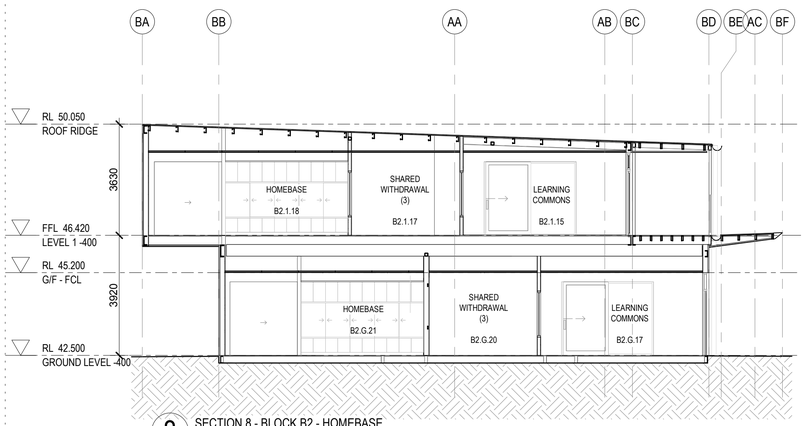
5 SECTION 5 - BLOCK A, ADMIN & LIBRARY
1 : 100



6 SECTION 7 - BLOCK B1-B3 - HOMEBASE
1 : 100



7 SECTION 7 - BLOCK B2 - HOMEBASE
1 : 100



8 SECTION 8 - BLOCK B2 - HOMEBASE
1 : 100

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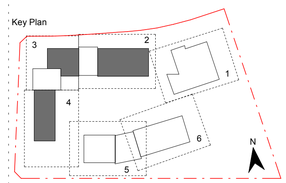
Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	DRAFT DETAILED DESIGN	14.06.2019
D	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



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architecture interior design urban design landscape
nom architect M. Sheldon 3990

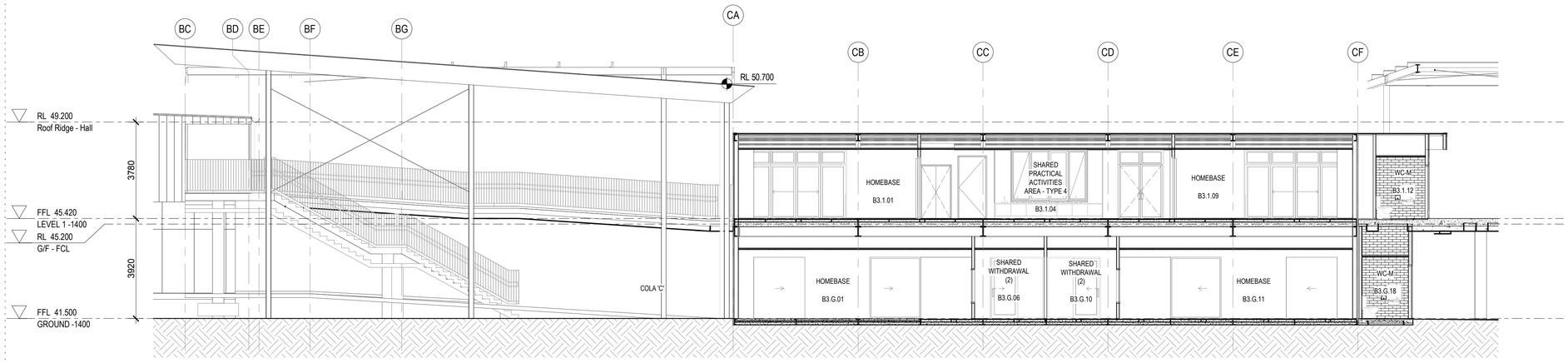
Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
SECTIONS - BLOCK A, B1 & B2

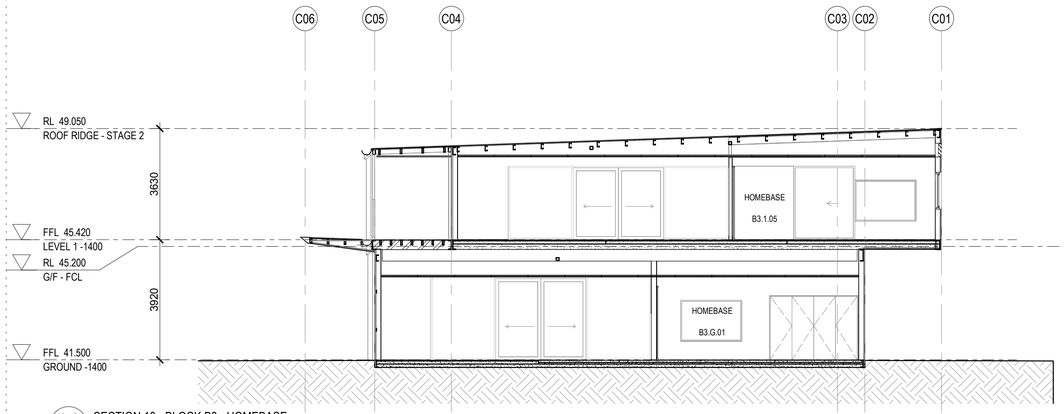
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	OM
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3101	1

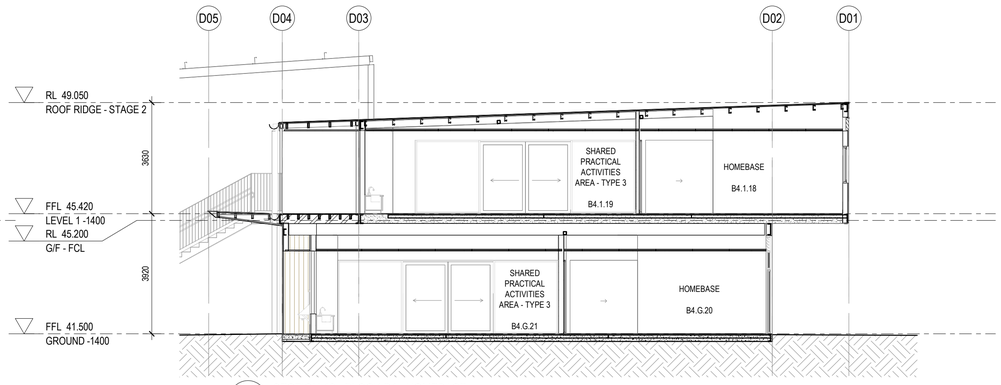
2/08/2019 7:34:49 PM



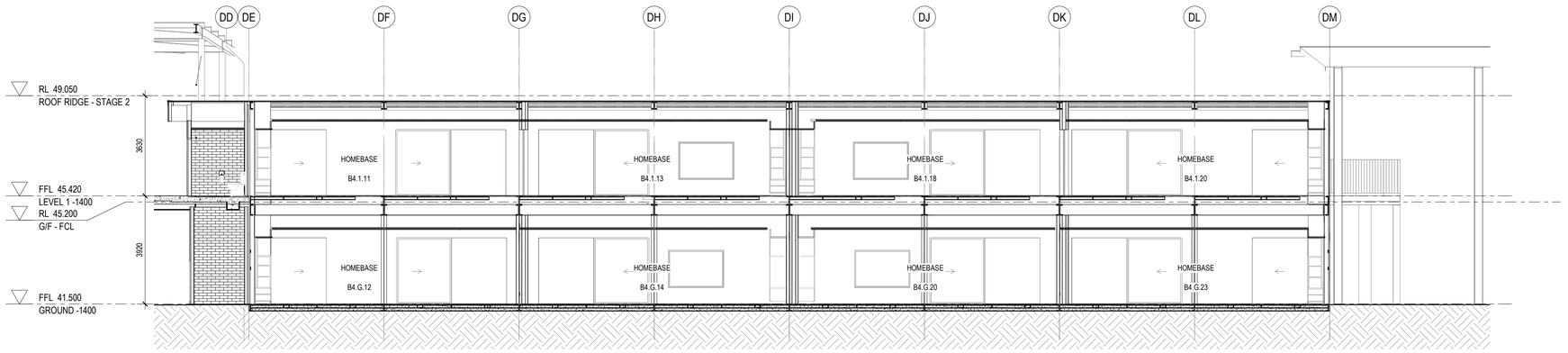
9 SECTION 9 - BLOCK B3 - HOMEBASE
1 : 100



10 SECTION 10 - BLOCK B3 - HOMEBASE
1 : 100



12 SECTION 12 - BLOCK B4 - HOMEBASE
1 : 100



11 SECTION 11 - BLOCK B4 - HOMEBASE
1 : 100

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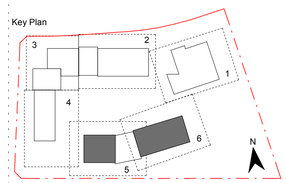
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	DRAFT DETAILED DESIGN	14.06.2019
D	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
SECTIONS - BLOCK B3 & B4

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	OM
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3102	1

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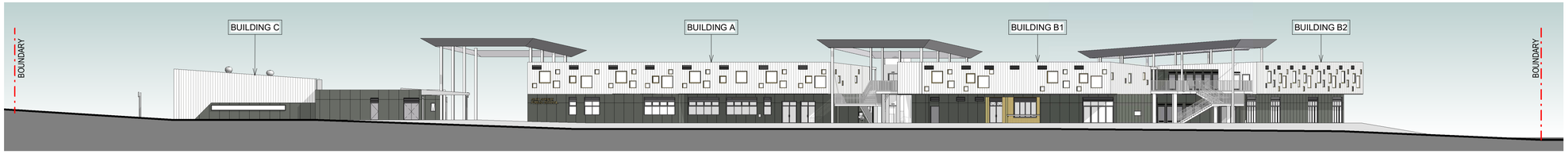
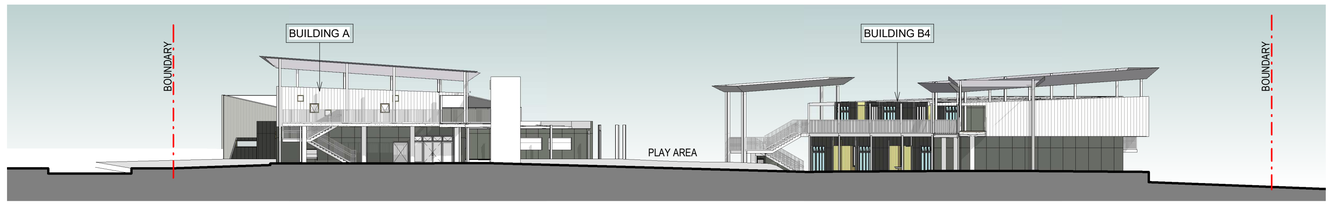
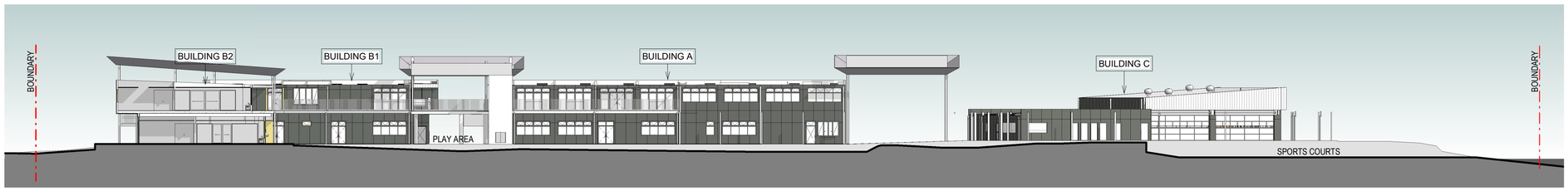


1 FARMLAND DRIVE STREETSCAPE ELEVATION
1 : 300



2 SITE SECTION - EAST FACING
1 : 300



3 SITE SECTION - NORTH FACING
1 : 300

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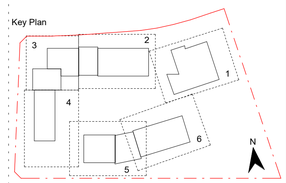
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
B	DETAILED DESIGN	21.06.2019
1	REVISED SSD SUBMISSION	21.02.2020

Key Plan



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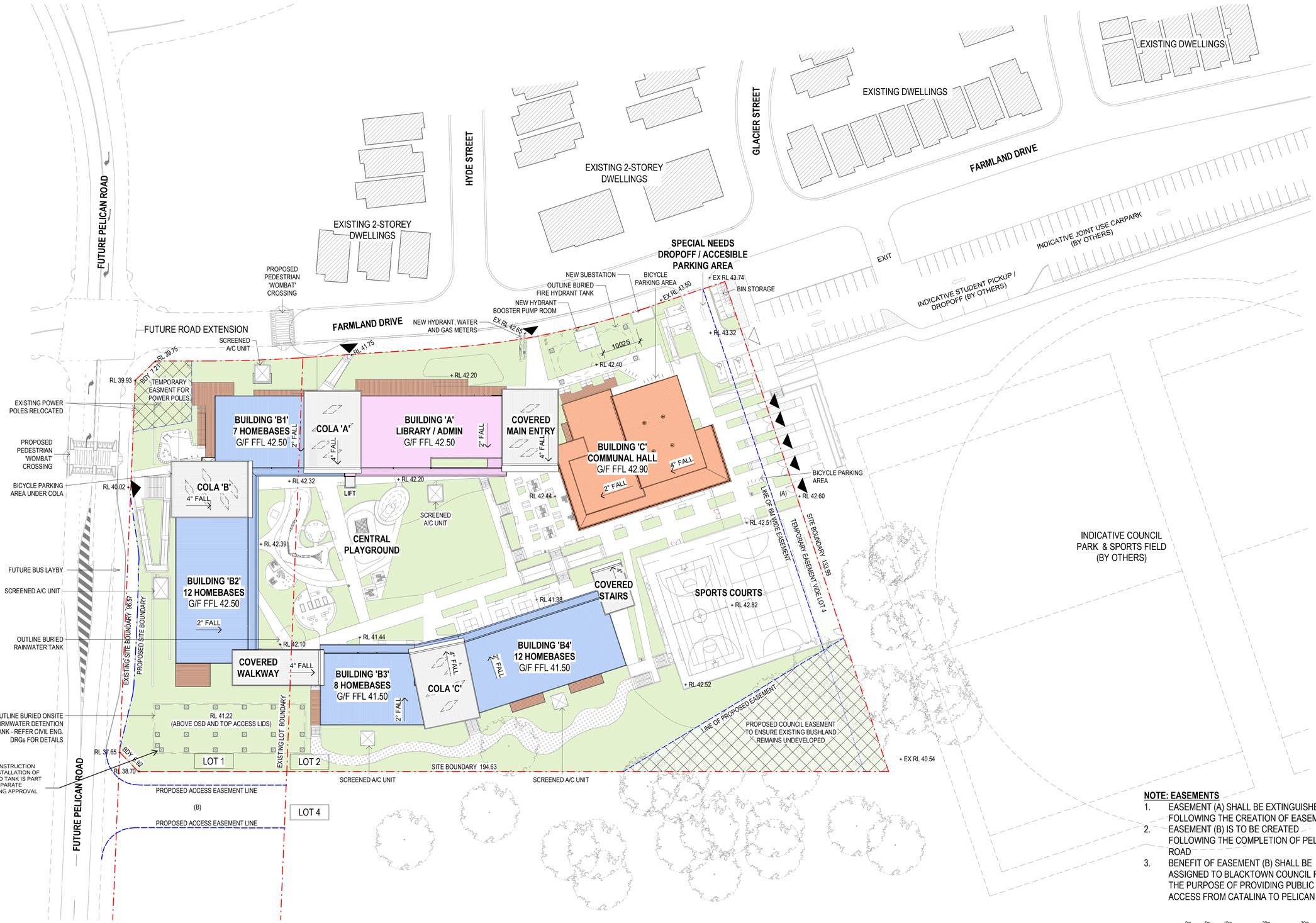
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
STREETSCAPE ELEVATION & SITE SECTIONS

Scale @ A1	1 : 300
Drawing Created (date)	05/30/19
Drawing Created (by)	OM
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-3150	1

26/02/2020 3:29:46 PM



1 SITE AND ROOF PLAN
1 : 500

NOTE: EASEMENTS

1. EASEMENT (A) SHALL BE EXTINGUISHED FOLLOWING THE CREATION OF EASEMENT (B)
2. EASEMENT (B) IS TO BE CREATED FOLLOWING THE COMPLETION OF PELICAN ROAD
3. BENEFIT OF EASEMENT (B) SHALL BE ASSIGNED TO BLACKTOWN COUNCIL FOR THE PURPOSE OF PROVIDING PUBLIC ACCESS FROM CATALINA TO PELICAN ROAD

0m 5m 10m 20m 30m

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Drawing Notes:
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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	IFC AMENDED AS INDICATED	15.10.2019
3	SSD SUBMISSION	15.11.2019
4	REVISED SSD SUBMISSION	22.11.2019
5	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

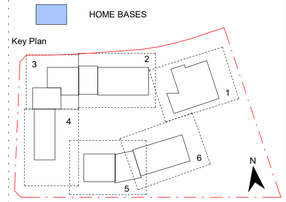
LEGEND

- Site boundary
- Proposed boundary
- Extent of easement
- Existing neighbouring buildings
- Pedestrian entry
- Vehicular entry

ZONES

- ADMIN / LIBRARY
- HALL / OSHC / CANTEEN
- HOME BASES

Key Plan



Contractor
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nom architect M. Sheldon 3990

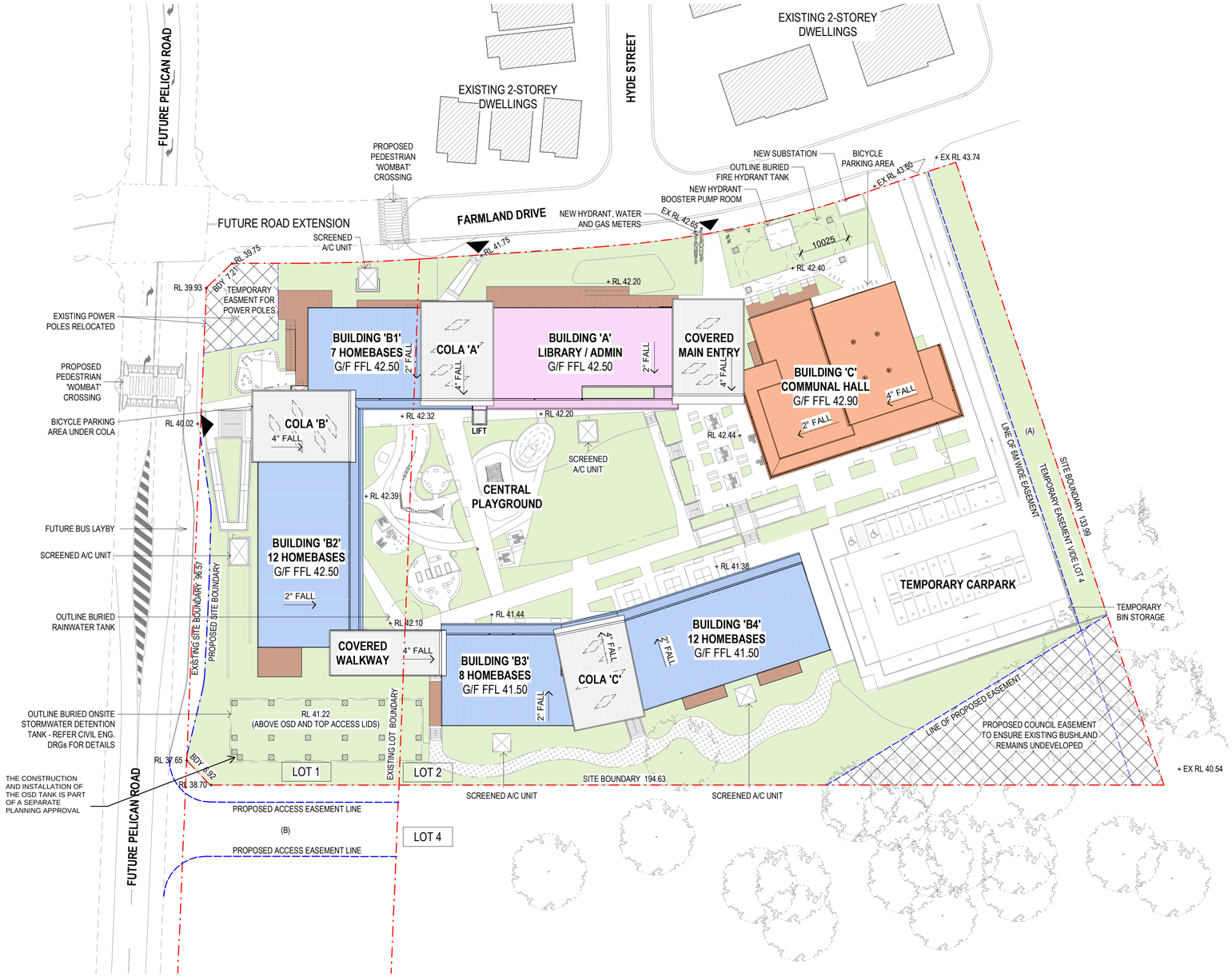
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
PROPOSED SITE AND ROOF PLAN

Scale @ A1	1 : 500
Drawing Created (date)	30/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1100	5

21/02/2020 5:17:52 PM



NOTE: EASEMENTS

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0m 5m 10m 20m 30m

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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	SSD SUBMISSION	06.03.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

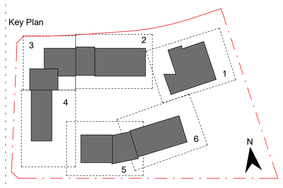
LEGEND

- Site boundary
- Proposed boundary
- Extent of easement
- Existing neighbouring buildings
- Pedestrian entry
- Vehicular entry

ZONES

- ADMIN / LIBRARY
- HALL / OSHC / CANTEEN
- HOME BASES

Key Plan



Contractor
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nom architect M. Sheldon 3990

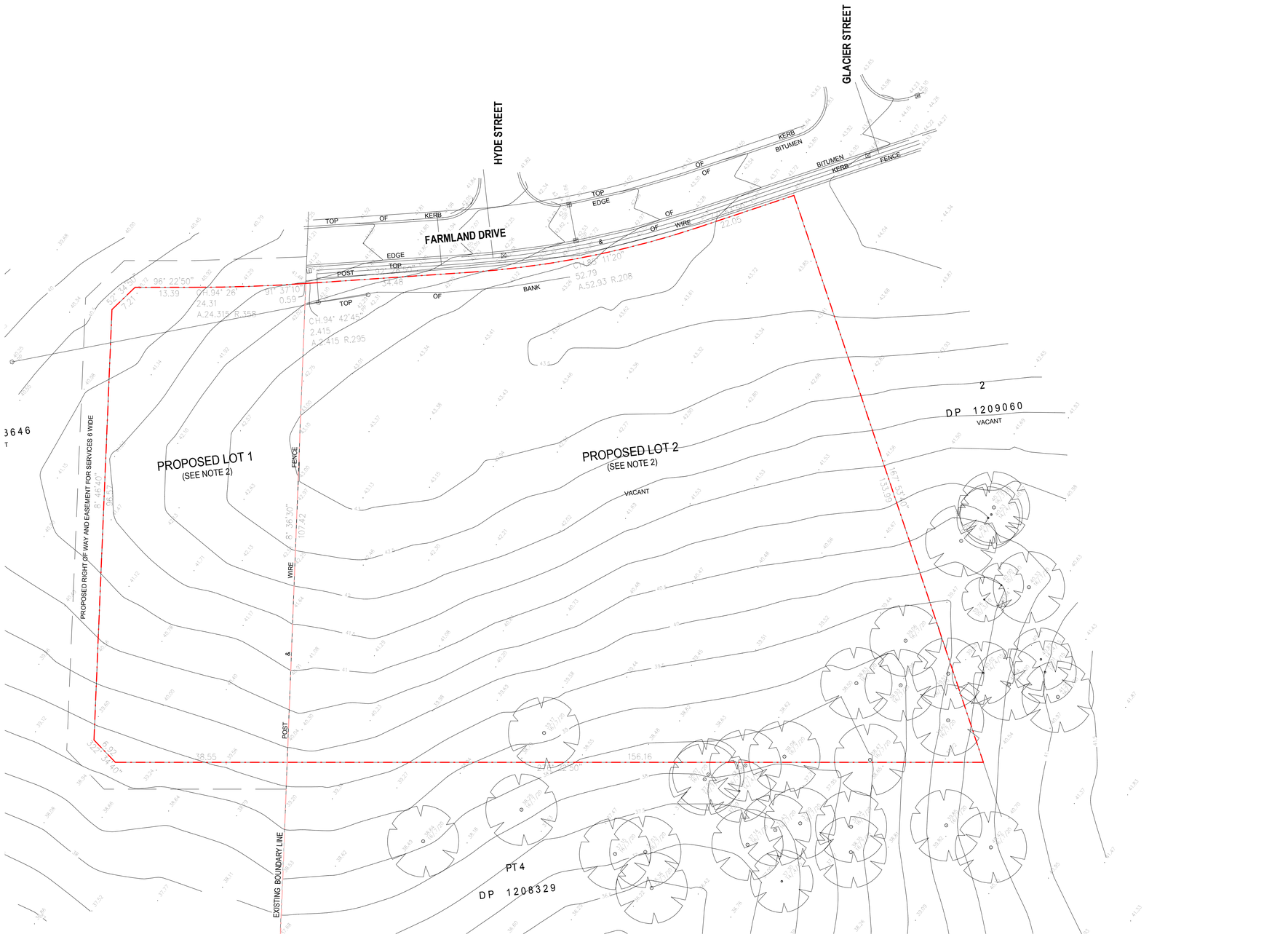
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
PROPOSED SITE AND ROOF PLAN WITH TEMPORARY CARPARK

Scale @ A1	1 : 500
Drawing Created (date)	06/03/2020
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1102	1

6/03/2020 5:43:55 PM



1 EXISTING SITE PLAN
1 : 500

0m 5m 10m 20m 30m

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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
B	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
3. Refer Bushfire Report for requirements and details for Defendable Space.

Contractor

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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title

ALEX AVENUE PUBLIC SCHOOL

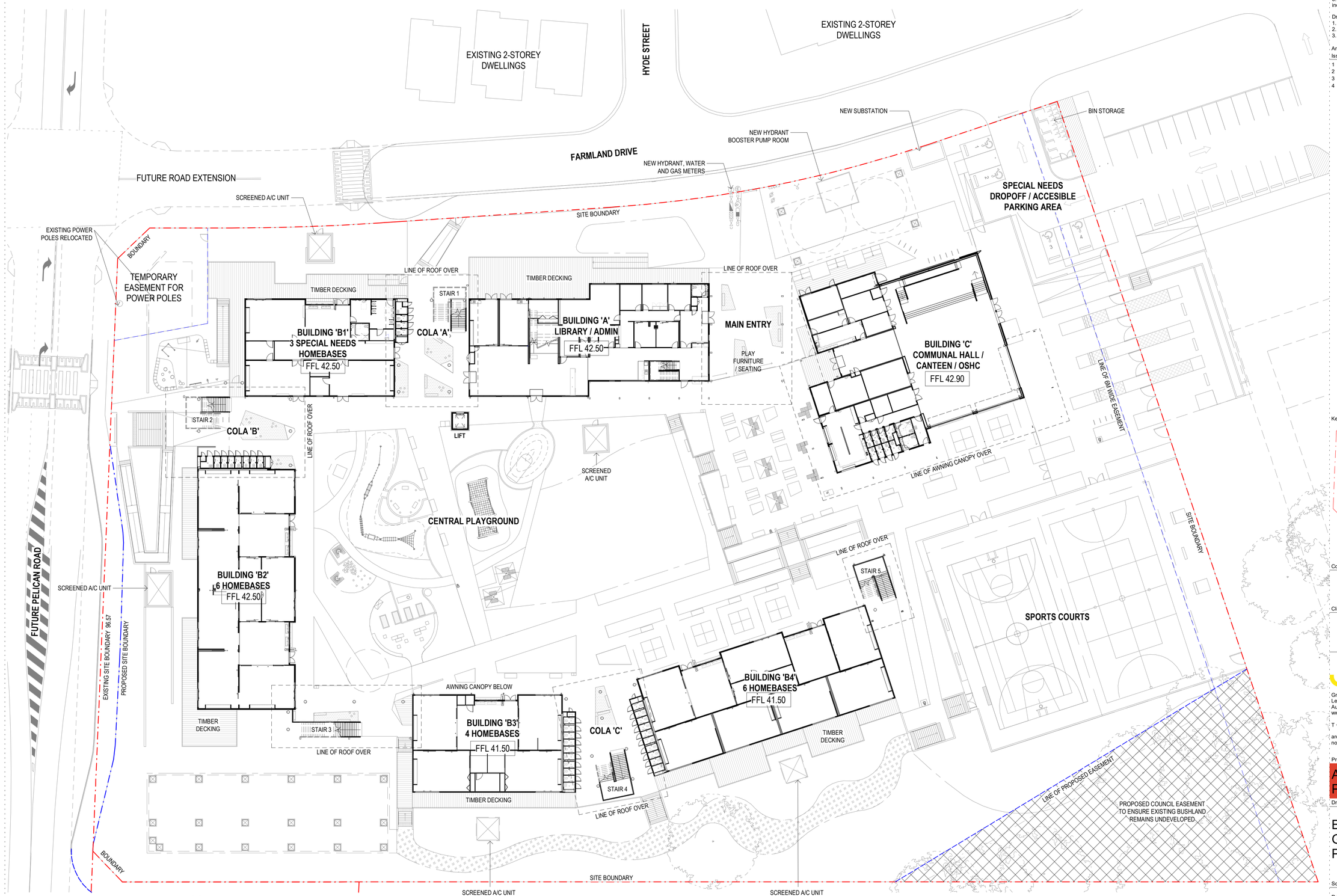
Drawing Title

EXISTING SITE PLAN

Scale @ A1	1 : 500
Drawing Created (date)	31/05/19
Drawing Created (by)	DN
Plotted and checked by	D.NGO
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-1105	1

2/08/2019 7:13:47 PM



1 BUILDING COMPLEX GROUND FLOOR PLAN
1 : 300

0m 3m 6m 12m 18m

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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	SSD SUBMISSION	15.11.2019
3	REVISED SSD SUBMISSION	22.11.2019
4	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
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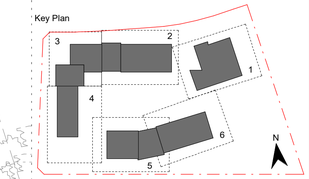
Key Plan



Contractor
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nom architect M. Sheldon 3990

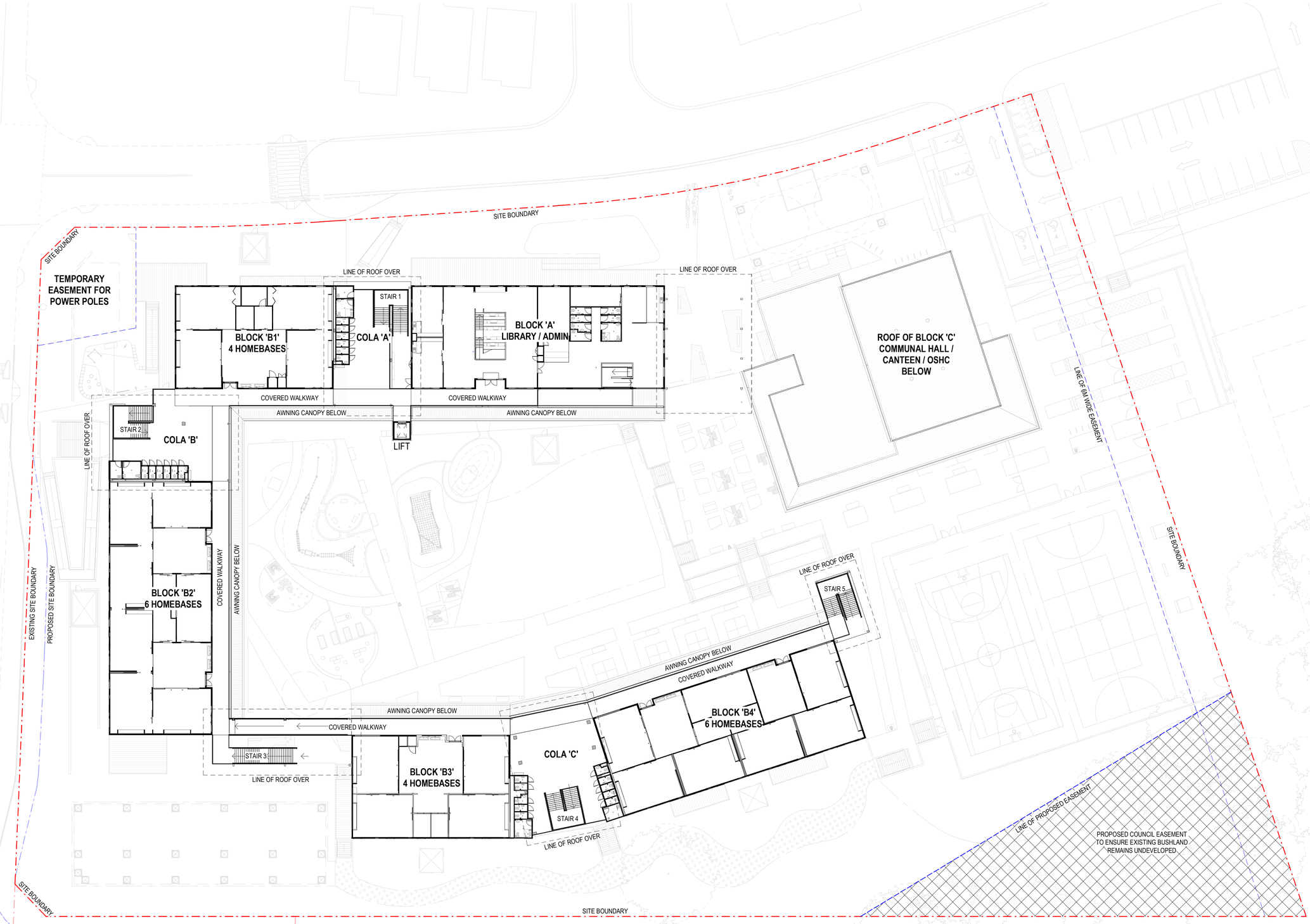
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
BUILDING COMPLEX GROUND FLOOR PLAN

Scale @ A1	1 : 300
Drawing Created (date)	30/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1110	4

21/02/2020 5:18:01 PM



1 BUILDING COMPLEX FIRST FLOOR PLAN
1 : 300

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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	SSD SUBMISSION	15.11.2019
3	REVISED SSD SUBMISSION	22.11.2019
4	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
2. Refer Civil Engineer's documentation for details of site and ground works, including pavements and retaining walls.
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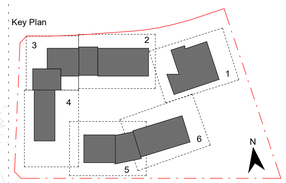
Key Plan



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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
BUILDING COMPLEX FIRST FLOOR PLAN

Scale @ A1	1 : 300
Drawing Created (date)	30/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1111	4

21/02/2020 5:18:17 PM

1 ROOF PLAN
1 : 300

0m 3m 6m 12m 18m

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3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
1	FOR CONSTRUCTION	02.08.2019
2	SSD SUBMISSION	15.11.2019
3	REVISED SSD SUBMISSION	22.11.2019
4	REVISED SSD SUBMISSION	21.02.2020

NOTES - SITE PLANS

1. Refer Landscape Achitect's documentation for planting, fencing, and outdoor furniture equipment details.
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

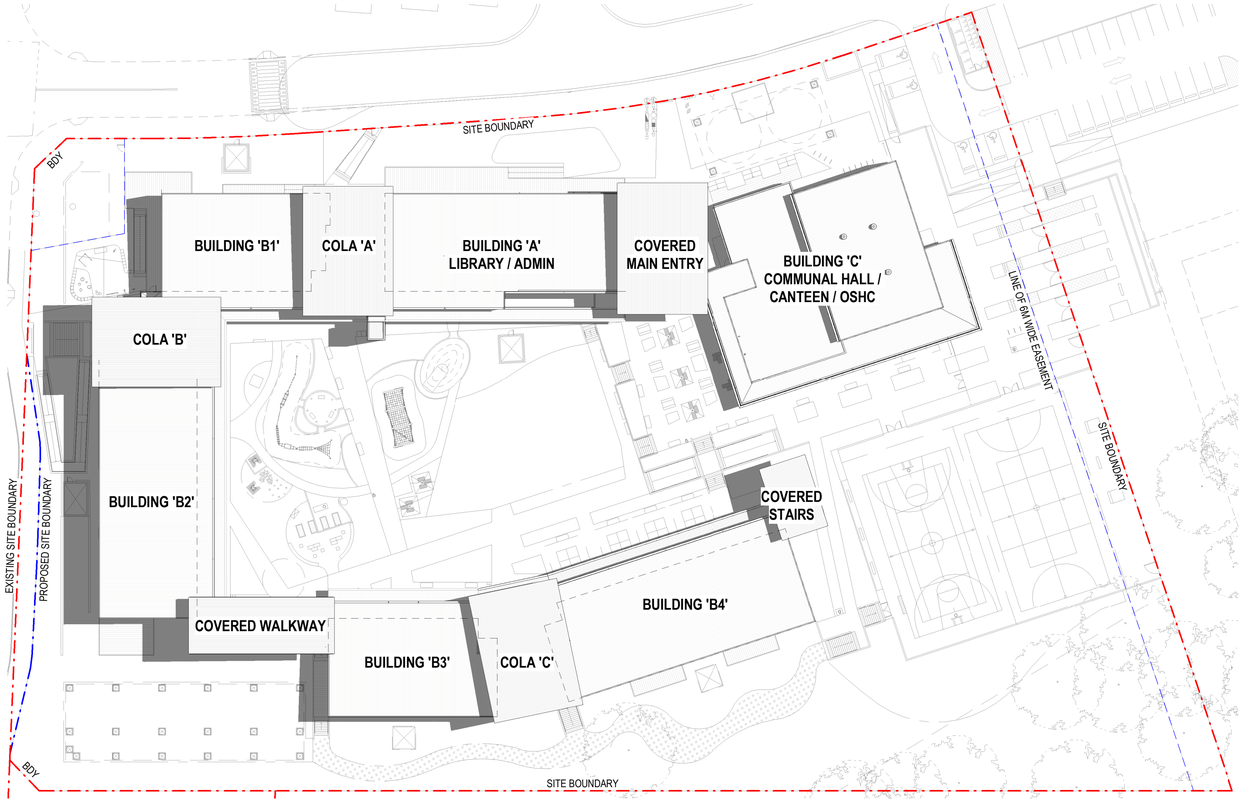
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
BUILDING COMPLEX ROOF PLAN

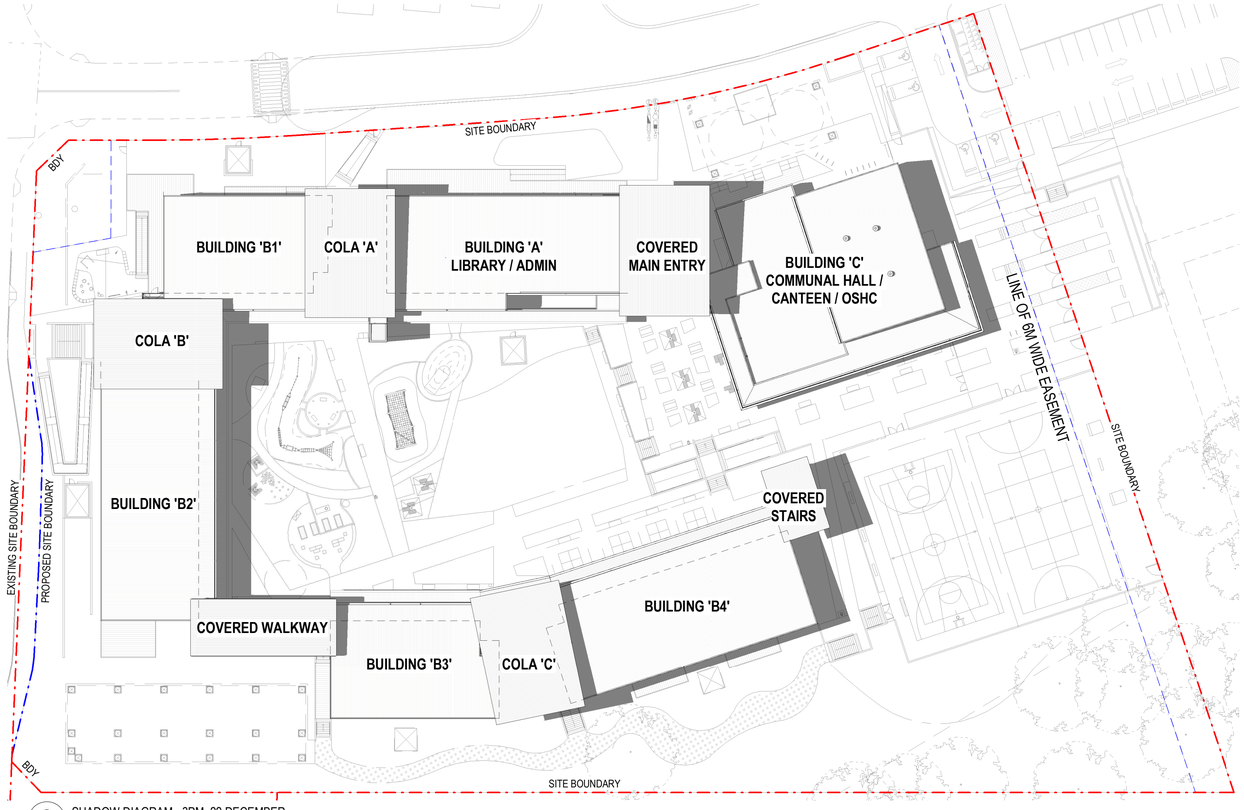
Scale @ A1	1 : 300
Drawing Created (date)	23/05/2019
Drawing Created (by)	DN
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1112	4

21/02/2020 5:18:26 PM



1 SHADOW DIAGRAM - 9AM, 22 DECEMBER
1 : 500



2 SHADOW DIAGRAM - 3PM, 22 DECEMBER
1 : 500

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Drawing Notes:
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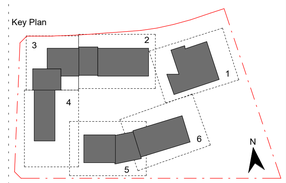
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
1	REVISED SSD SUBMISSION	21.02.2020

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

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NSW GOVERNMENT Education

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nom architect M. Sheldon 3990

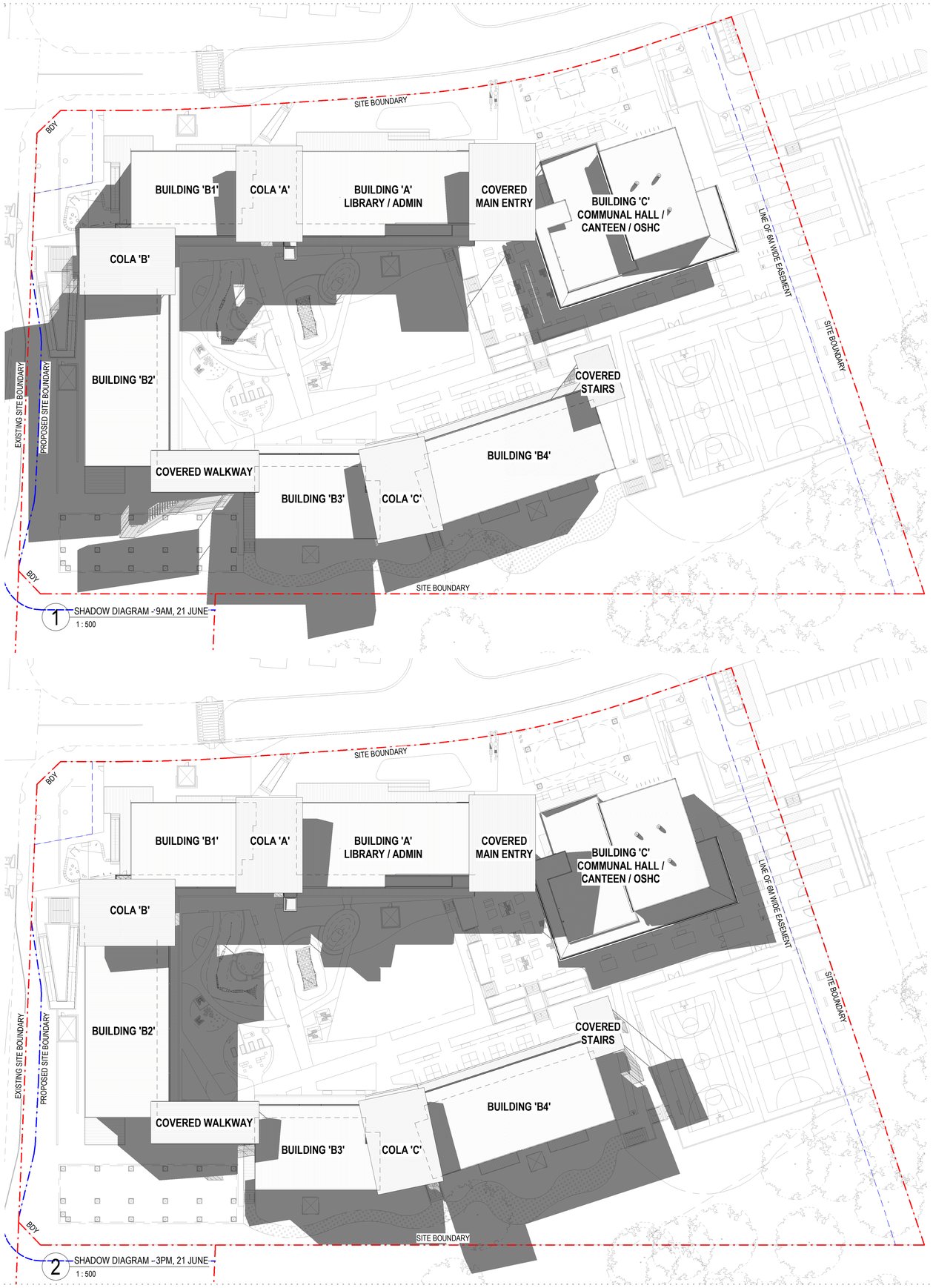
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
SITE PLAN - SHADOWS - DEC

Scale @ A1	1 : 500
Drawing Created (date)	05/31/19
Drawing Created (by)	LO
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1120	1

26/02/2020 3:28:55 PM



1 SHADOW DIAGRAM - 9AM, 21 JUNE
1 : 500

2 SHADOW DIAGRAM - 3PM, 21 JUNE
1 : 500

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Drawing Notes:
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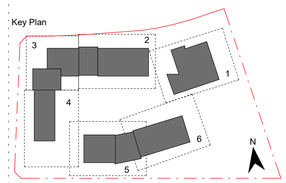
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
1	REVISED SSD SUBMISSION	21.02.2020

Key Plan



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nom architect M. Sheldon 3990

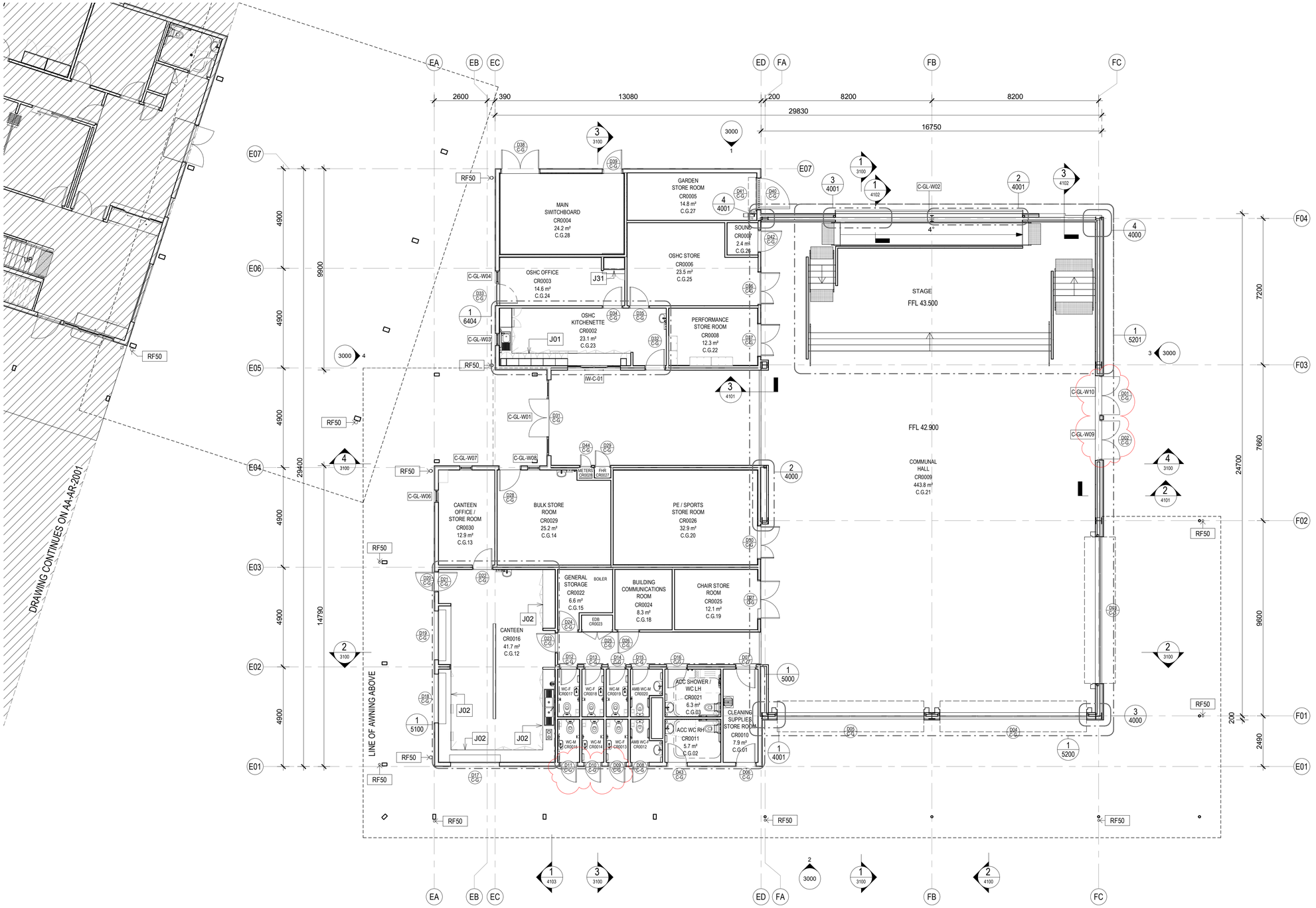
Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
SITE PLAN -
SHADOWS - JUNE

Scale @ A1	1 : 500
Drawing Created (date)	05/31/19
Drawing Created (by)	LO
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-1121	1

26/02/2020 3:29:22 PM



1 BLOCK C - HALL - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

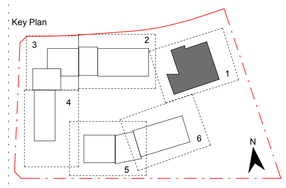
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	10.04.2019
C	DRAFT DETAILED DESIGN	17.04.2019
D	DRAFT DETAILED DESIGN	24.04.2019
E	DRAFT DETAILED DESIGN	01.05.2019
F	DOORS GENERALLY AMENDED	07.05.2019
G	PROGRESS ISSUE	10.05.2019
H	FOR SSD SUBMISSION	31.05.2019
I	INTERNAL GLAZING	05.06.2019
J	DRAFT DETAILED DESIGN	14.06.2019
K	DETAILED DESIGN	21.06.2019
L	ISSUED FOR COORDINATION	12.07.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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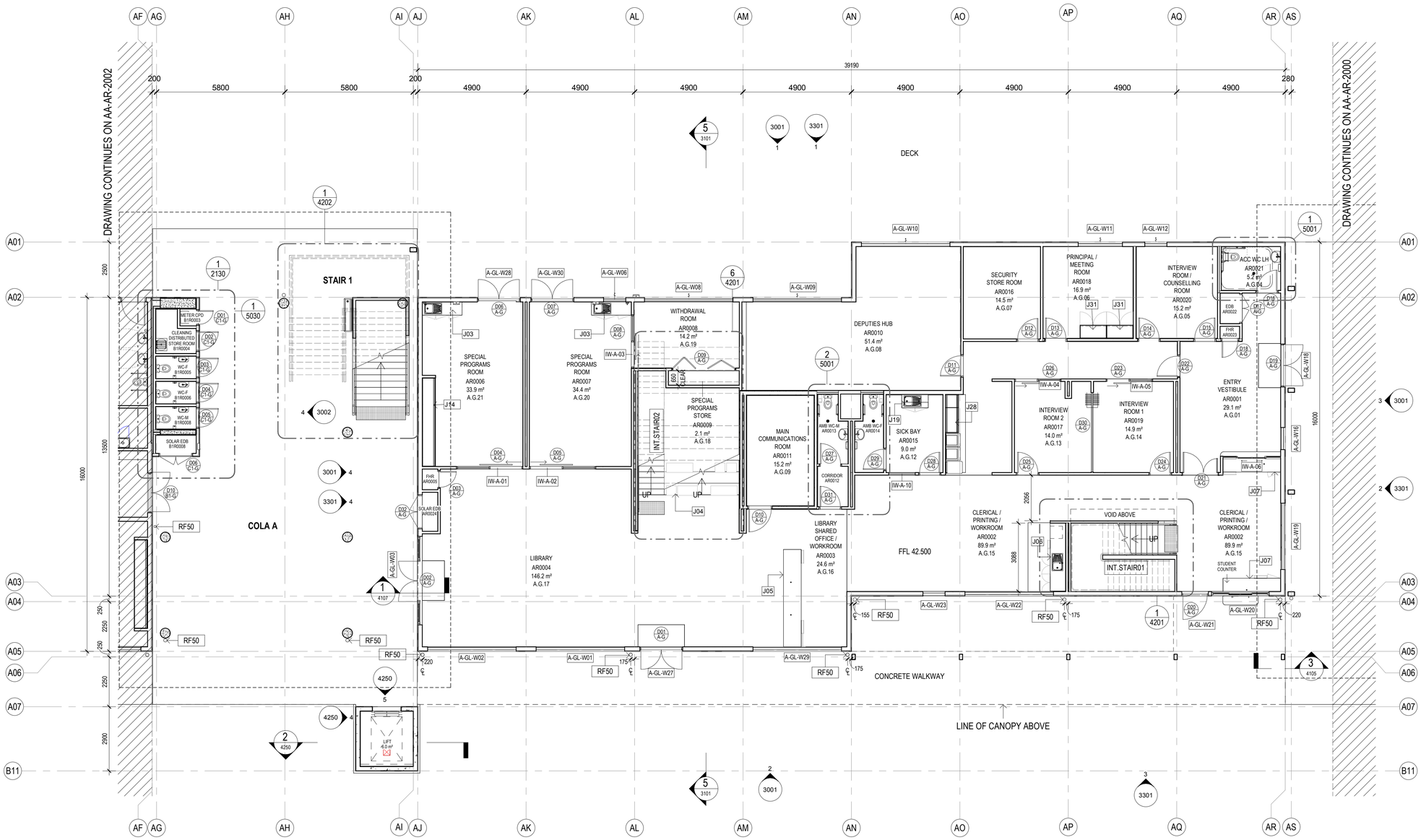
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK C - PART 1

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2000	1



1 BLOCK A - ADMIN/LIBRARY - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

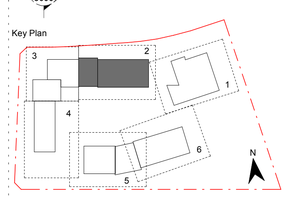
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	DRAFT DETAILED DESIGN	24.04.2019
D	DRAFT DETAILED DESIGN	01.05.2019
E	PROGRESS ISSUE	10.05.2019
F	FOR SSD SUBMISSION	31.05.2019
G	INTERNAL GLAZING	05.06.2019
H	DRAFT DETAILED DESIGN	14.06.2019
I	DETAILED DESIGN	21.06.2019
J	FOR COORDINATION	11.07.2019
K	FOR INFORMATION	31.07.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



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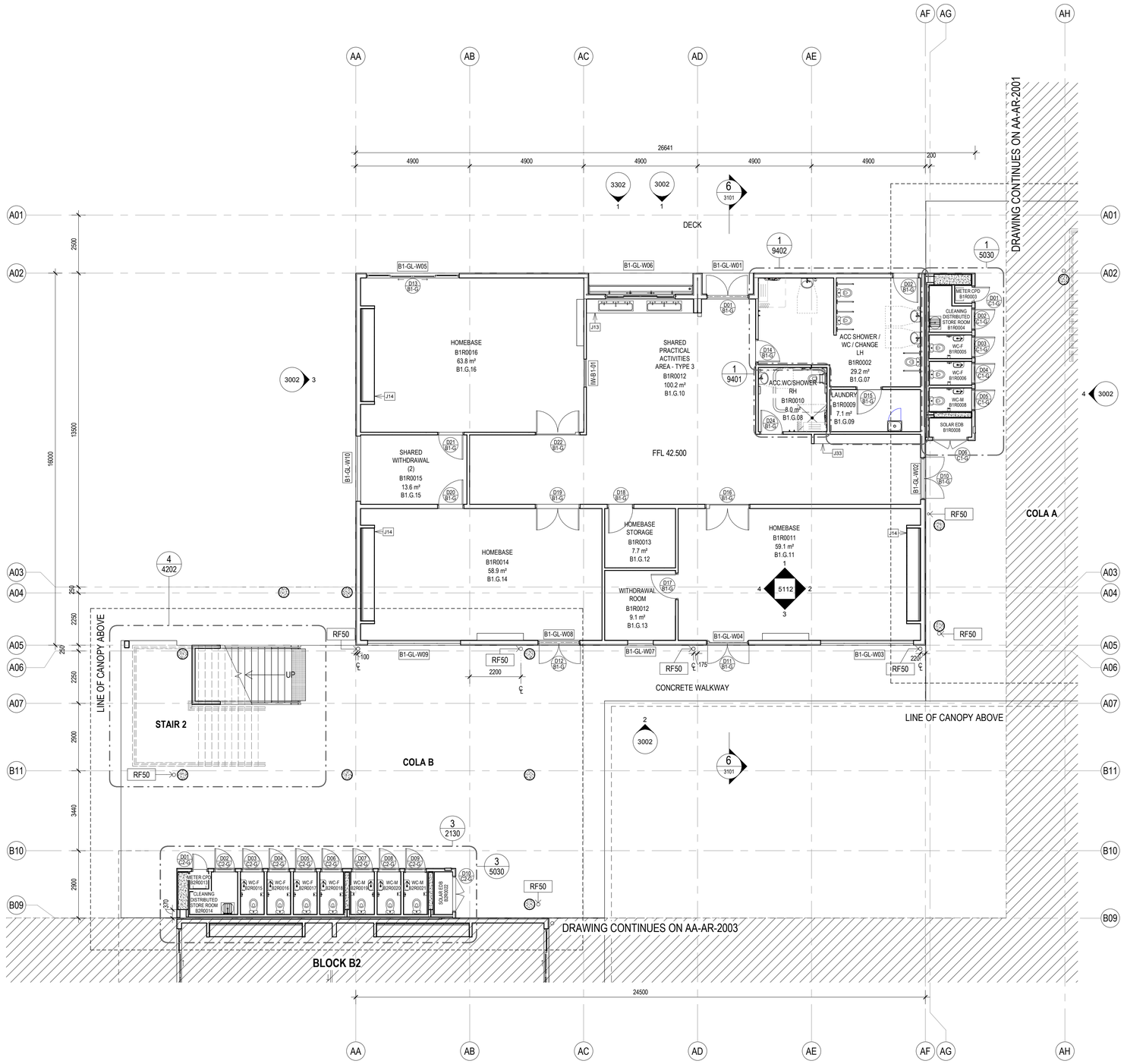
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK A - PART 2

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DE
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2001	1



1 BLOCK B1 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

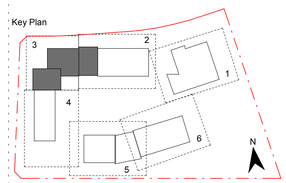
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	AMENDED AS INDICATED	14.05.2019
F	FOR SSD SUBMISSION	31.05.2019
G	INTERNAL GLAZING	05.06.2019
H	DRAFT DETAILED DESIGN	14.06.2019
I	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



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nom architect M. Sheldon 3990

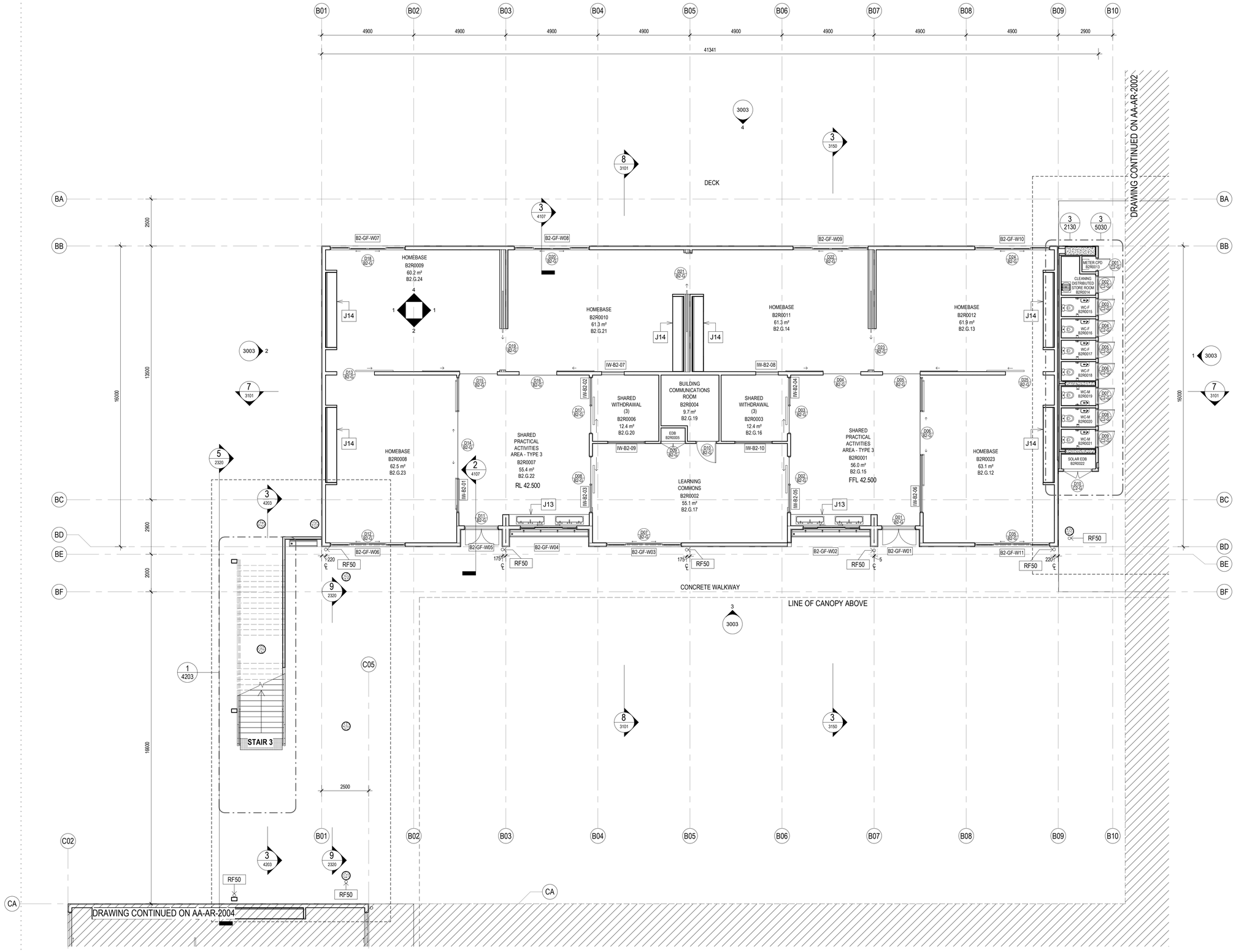
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B1 - PART 3

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2002	1

2/08/2019 7:20:19 PM



1 BLOCK B2 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

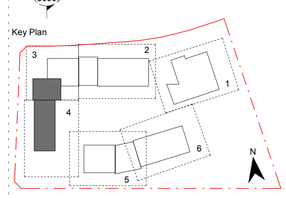
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	INTERNAL GLAZING	05.06.2019
G	DRAFT DETAILED DESIGN	14.06.2019
H	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 C-G — Door number
- W01 — Window number
- 1 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 3000 — External elevation

Key Plan



Contractor
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Client
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nom architect M. Sheldon 3990

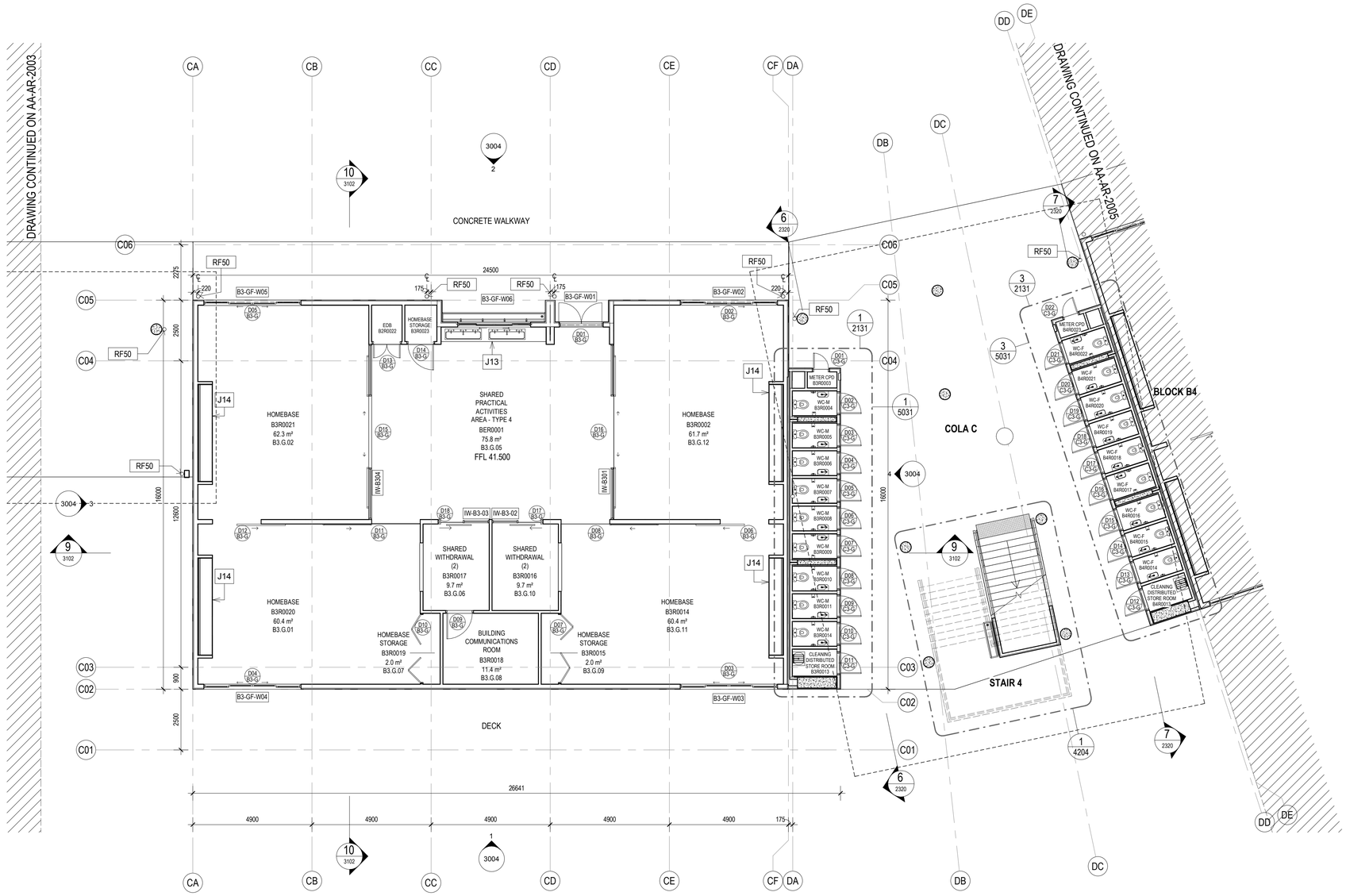
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B2 - PART 4

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2003	1

2/08/2019 7:20:33 PM



1 BLOCK B3 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

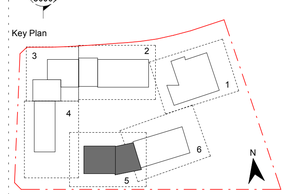
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	INTERNAL GLAZING	05.06.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- DD01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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nom architect M. Sheldon 3990

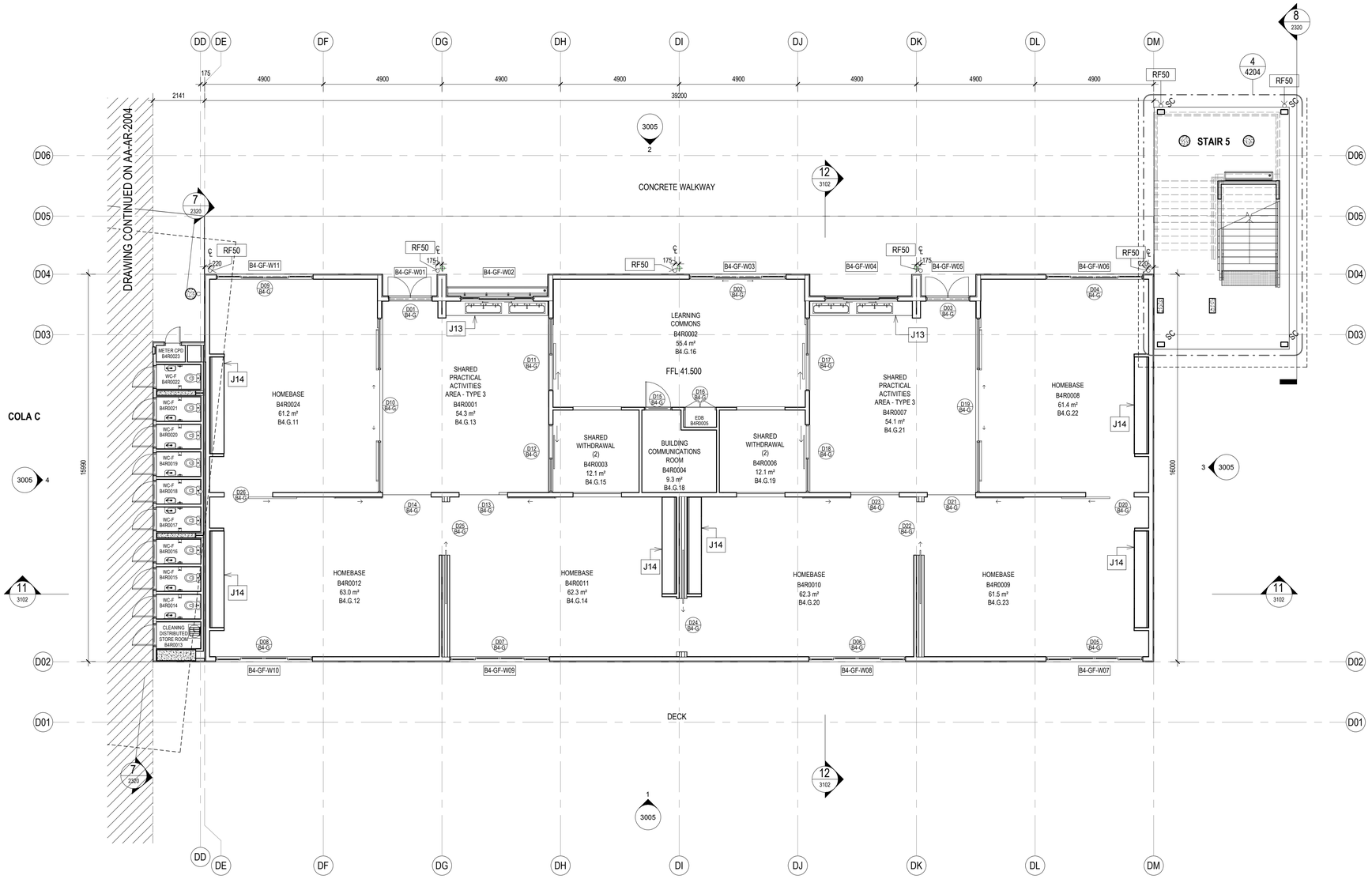
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B3 - PART 5

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2004	1

2/08/2019 7:20:47 PM



1 BLOCK B4 - HOMEBASE - GROUND FLOOR
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

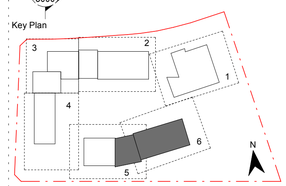
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

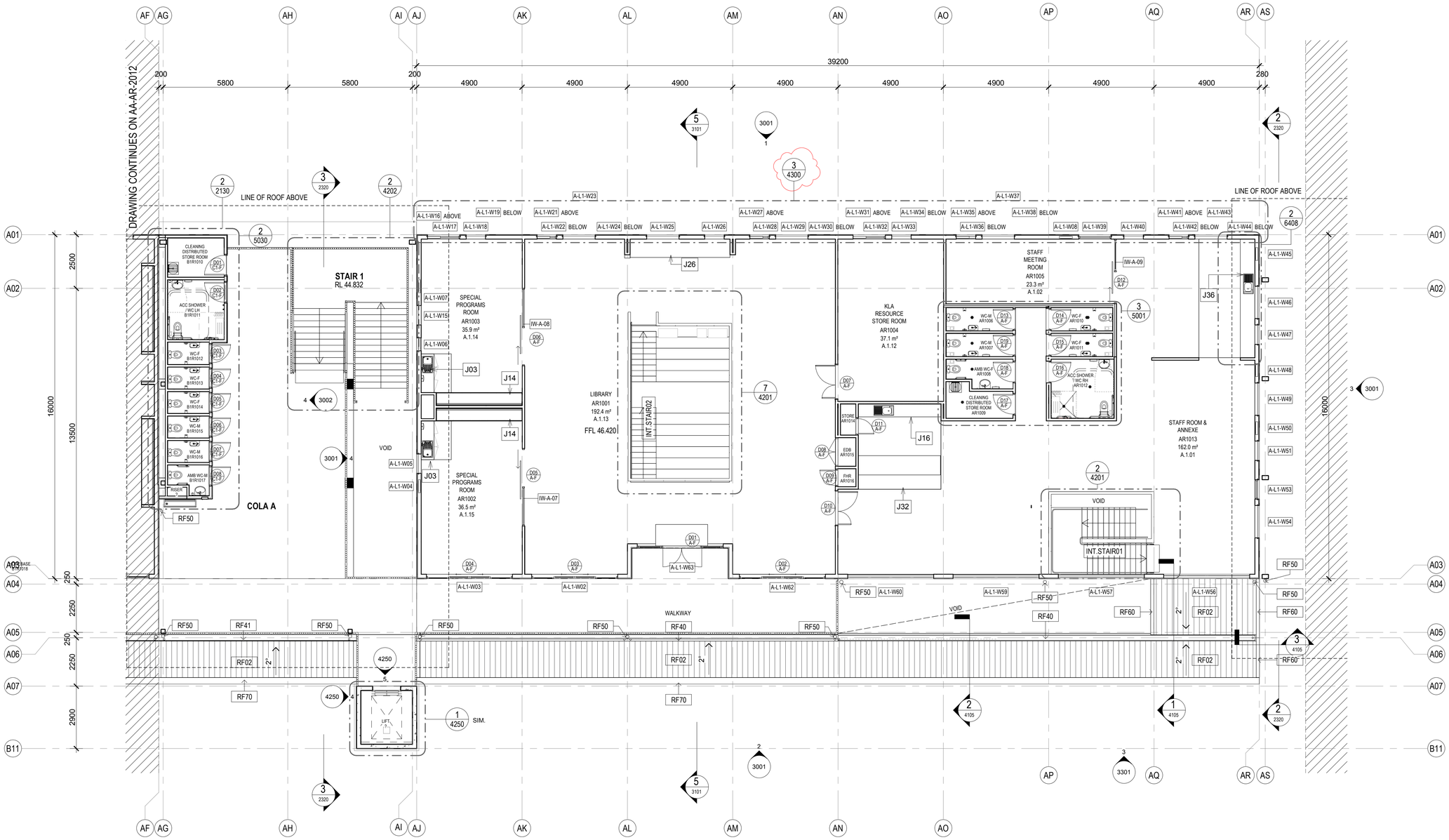
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - GF - BLOCK B4 - PART 6

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2005	1

2/08/2019 7:21:15 PM



1 BLOCK A - ADMIN/LIBRARY - LEVEL 1
1 : 100

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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

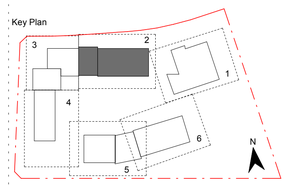
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	DRAFT DETAILED DESIGN	24.04.2019
D	DRAFT DETAILED DESIGN	01.05.2019
E	PROGRESS ISSUE	10.05.2019
F	DOORS AMENDED	15.05.2019
G	FOR SSD SUBMISSION	31.05.2019
H	WINDOW LOCATIONS REVISED	07.06.2019
I	DRAFT DETAILED DESIGN	14.06.2019
J	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019
2	ISSUED FOR CONSTRUCTION	29.08.19

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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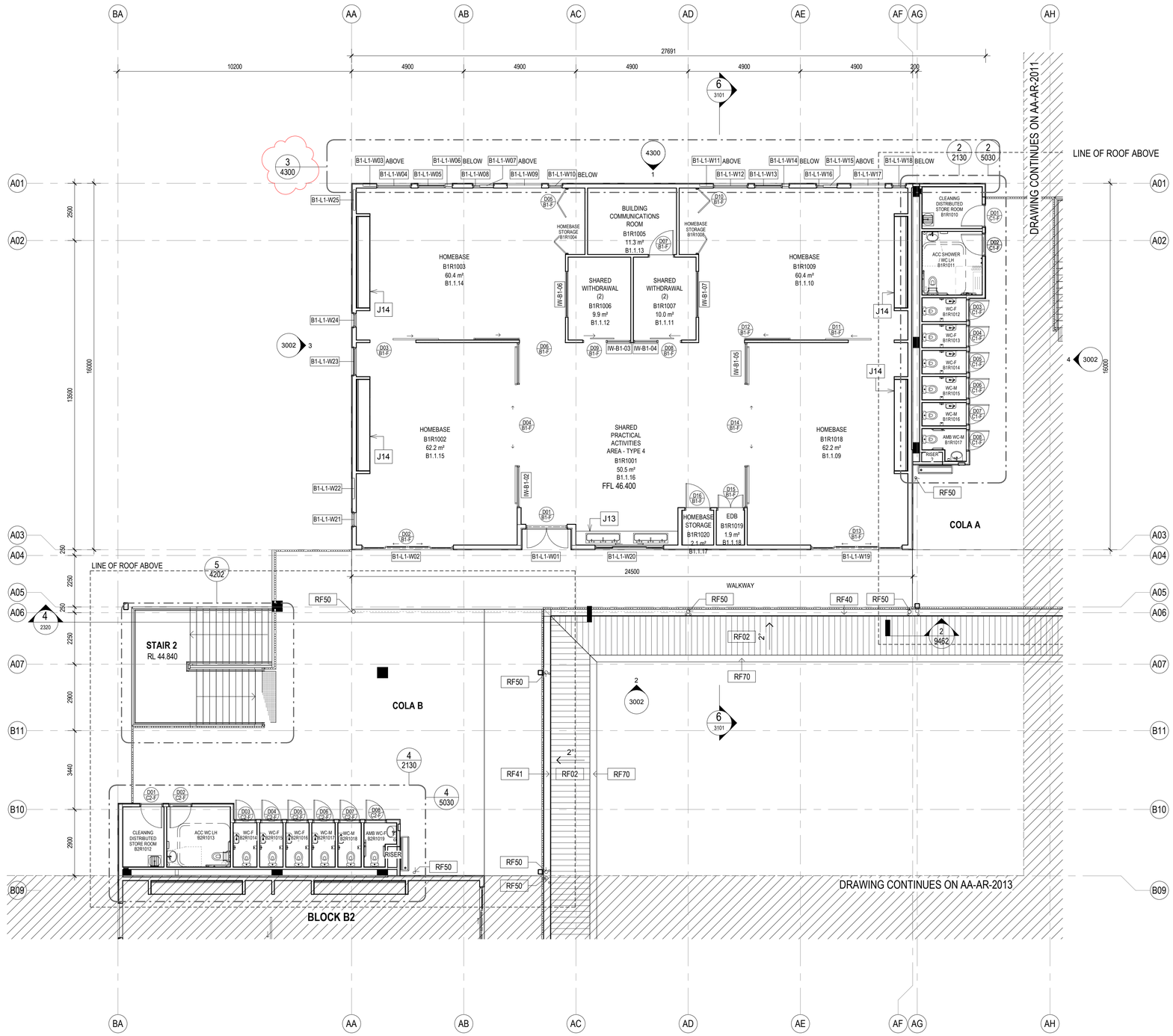
architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK A - PART 2

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2011	2



1 BLOCK B1 - HOMEBASE - LEVEL 1
1 : 100

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Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

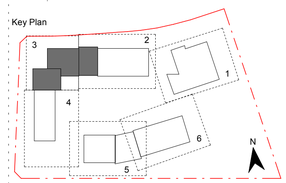
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	INTERNAL GLAZING	05.06.2019
G	DRAFT DETAILED DESIGN	14.06.2019
H	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019
2	ISSUED FOR CONSTRUCTION	29.08.19

Legend

- D01 C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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nom architect M. Sheldon 3990

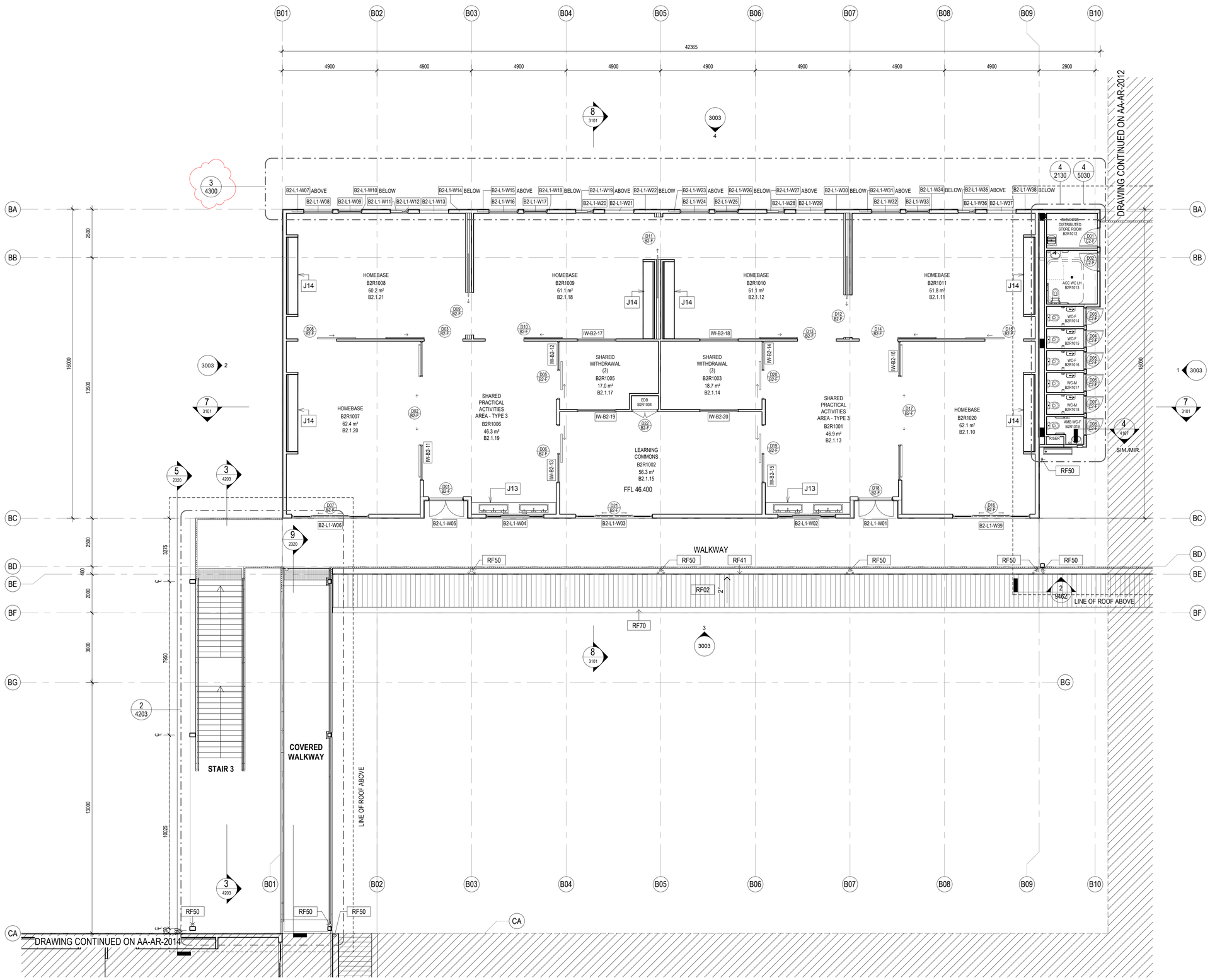
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B1 - PART 3

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2012	2

8/29/2019 11:22:03 AM



1 BLOCK B2 - HOMEBASE - LEVEL 1
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

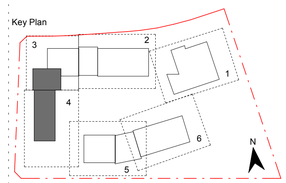
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	DRAFT DETAILED DESIGN	01.05.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	INTERNAL GLAZING	05.06.2019
G	DRAFT DETAILED DESIGN	14.06.2019
H	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019
2	ISSUED FOR CONSTRUCTION	29.08.19

Legend

- D01 C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



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nom architect M. Sheldon 3990

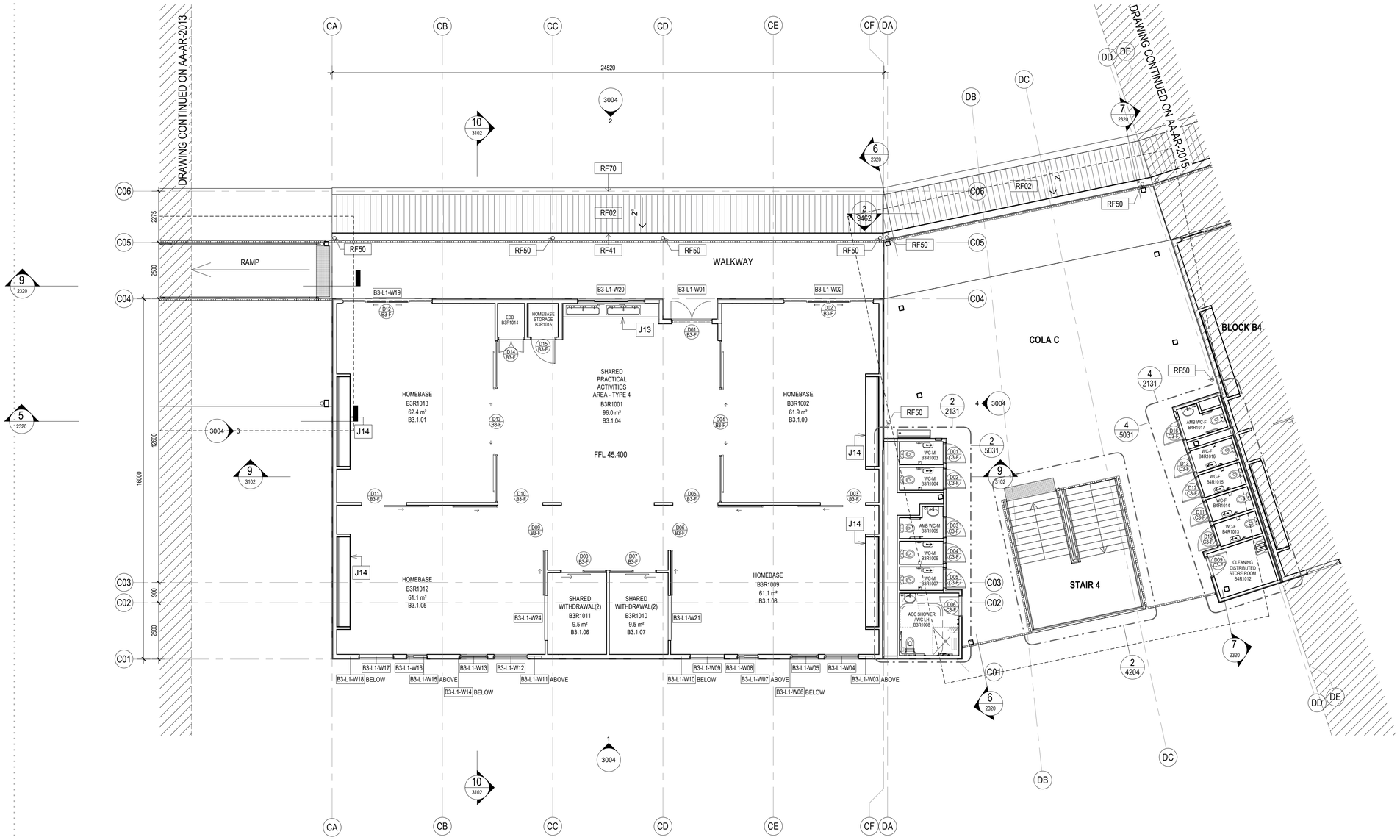
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B2 - PART 4

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2013	2

8/29/2019 11:22:08 AM



1 BLOCK B3 - HOMEBASE - LEVEL 1
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

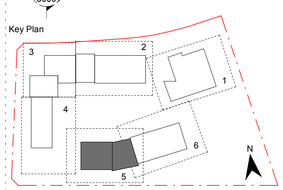
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



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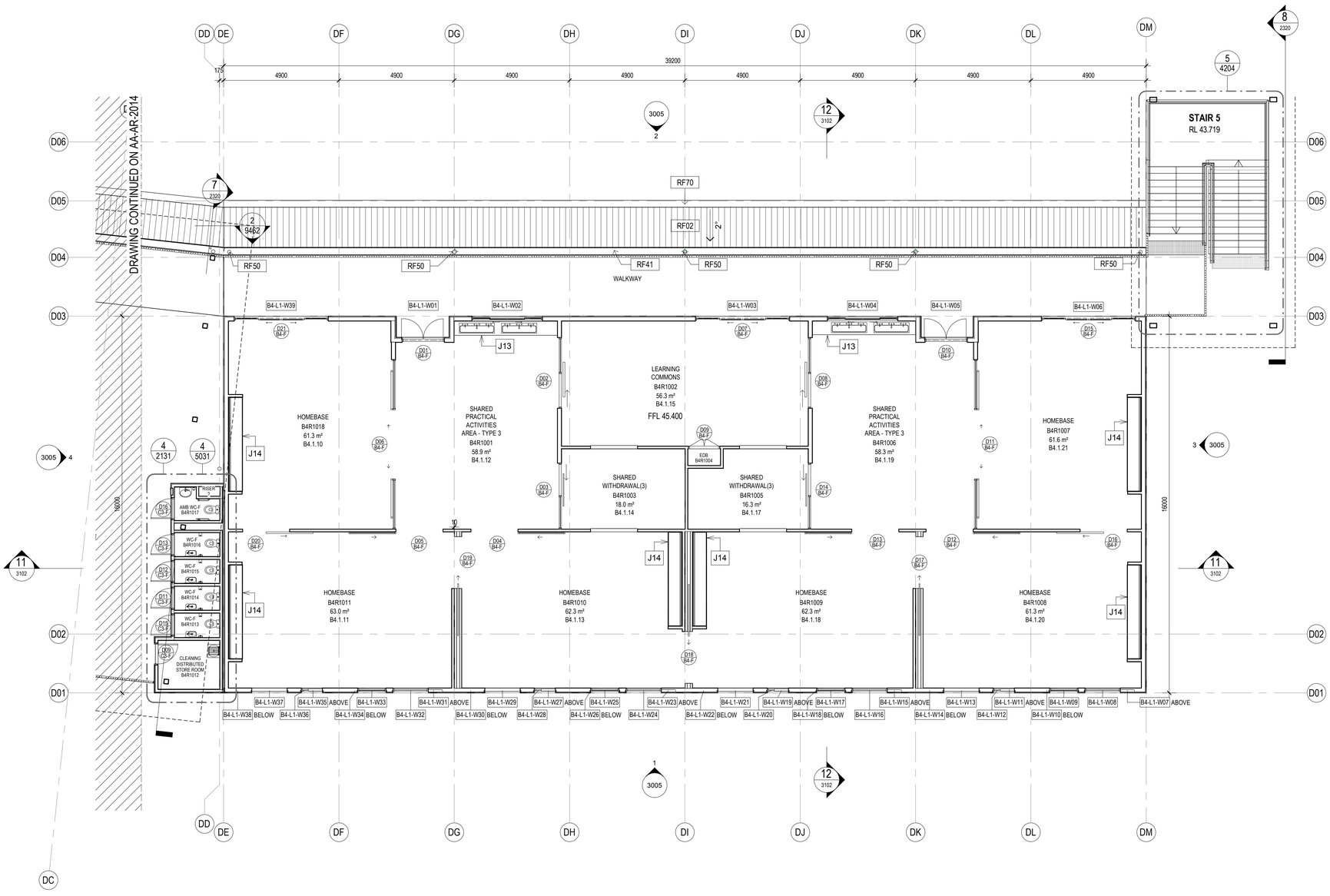
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B3 - PART 5

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2014	1

2/08/2019 7:22:27 PM



1 BLOCK B4 - HOMEBASE - LEVEL 1
1 : 100

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Drawing Notes:
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2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

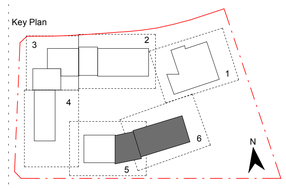
Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Legend

- D01 / C-G — Door number
- W01 — Window number
- 1 / 0300 — Detail callout
- GF-001 — Room number
- L01 — Louvre number
- 0240 — Internal elevation
- 3000 — External elevation
- 1 / 3000 — External elevation

Key Plan



Contractor
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Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
FLOOR PLAN - L1 - BLOCK B4 - PART 6

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	PI
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2015	1

2/08/2019 7:22:50 PM

ROOF SYSTEMS:

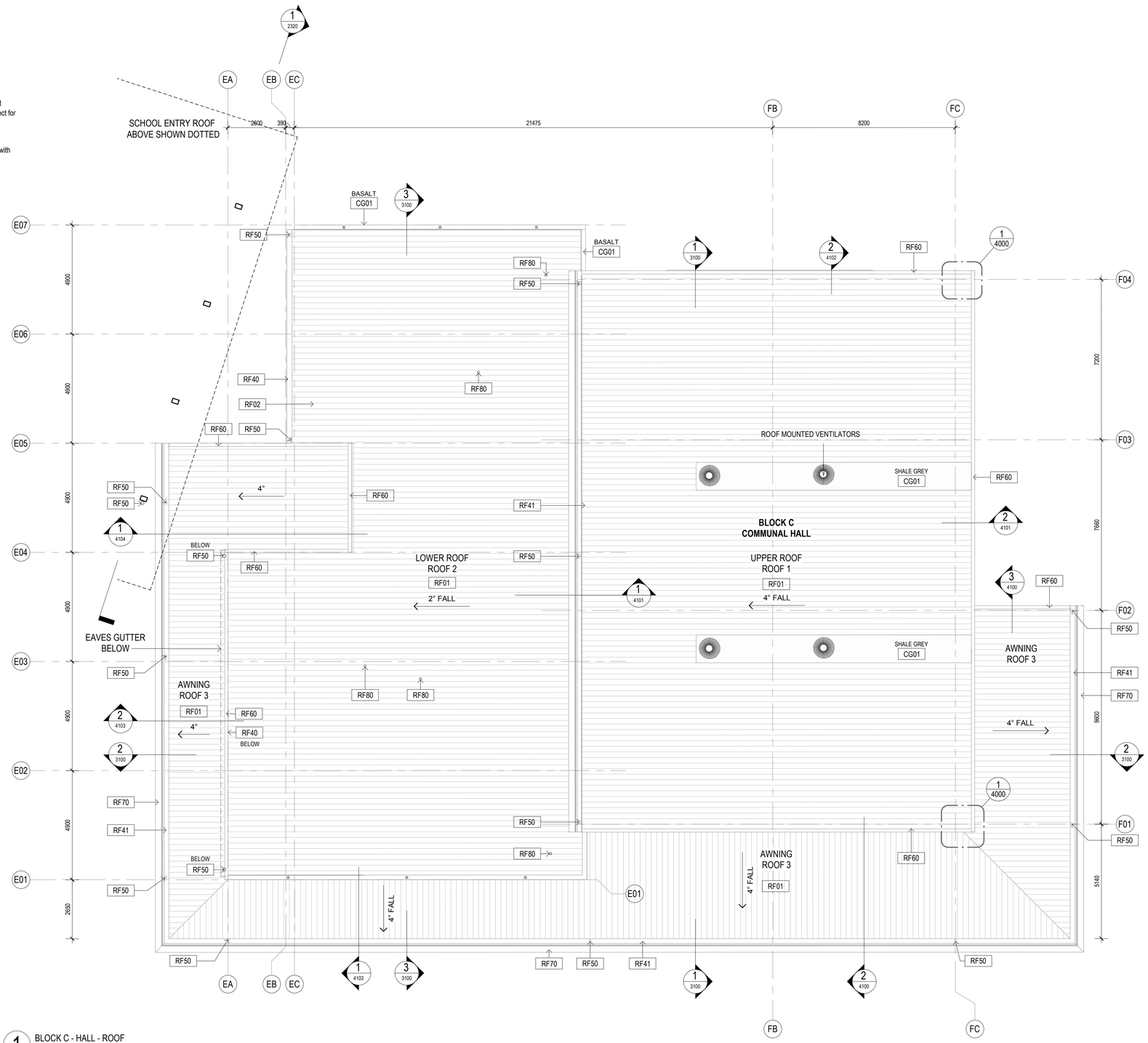
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK C - HALL - ROOF
1 : 100

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Drawing Notes:
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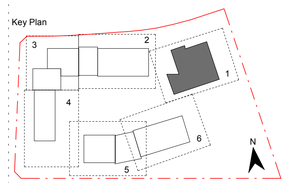
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	10.04.2019
C	DRAFT DETAILED DESIGN	17.04.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
NSW GOVERNMENT Education

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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK C - PART 1

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	dn
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2020	1

2/08/2019 7:22:58 PM

ROOF SYSTEMS:

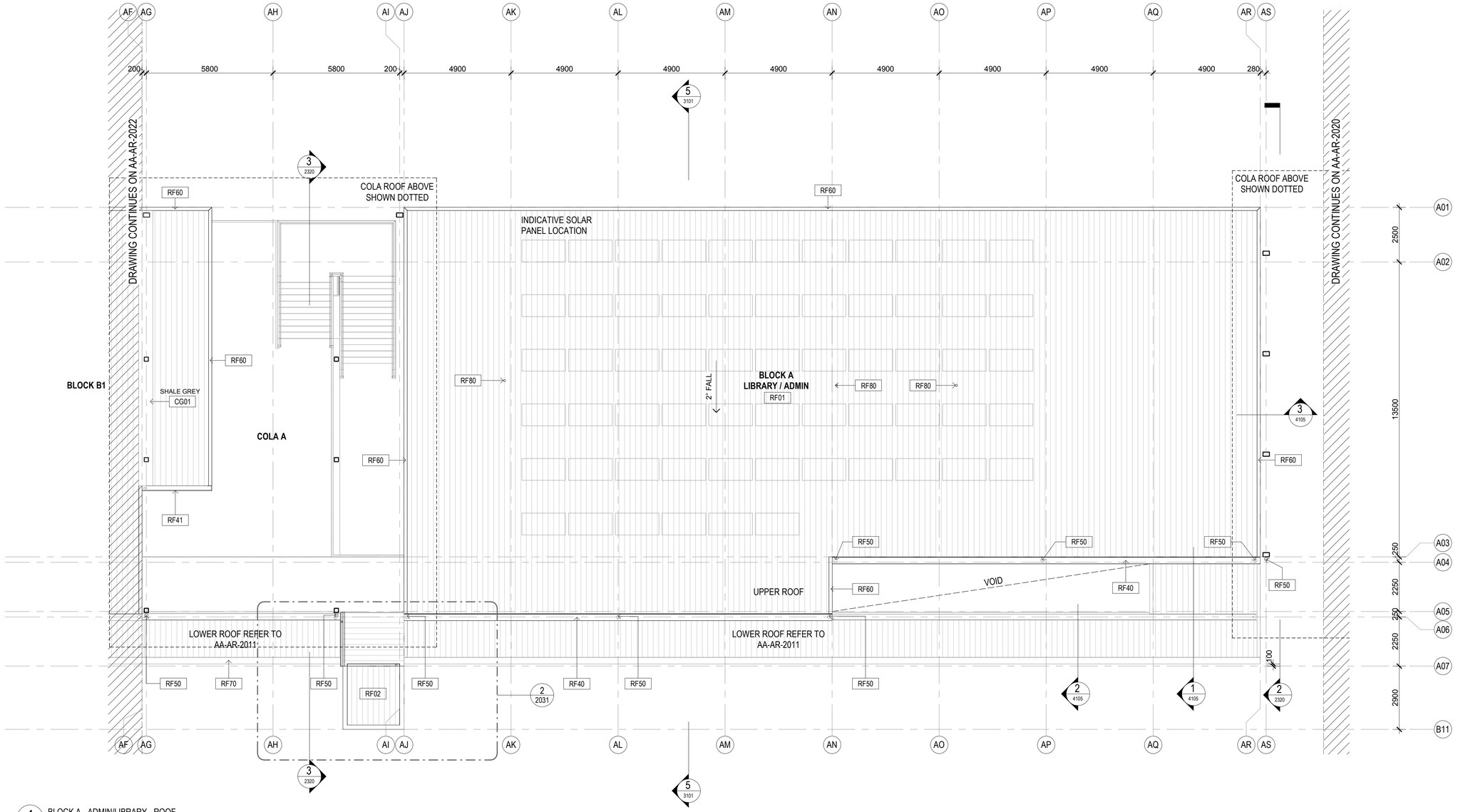
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK A - ADMIN/LIBRARY - ROOF
1 : 100

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Drawing Notes:
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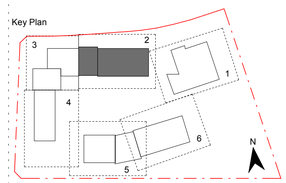
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK A - PART 2

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2021	1

ROOF SYSTEMS:

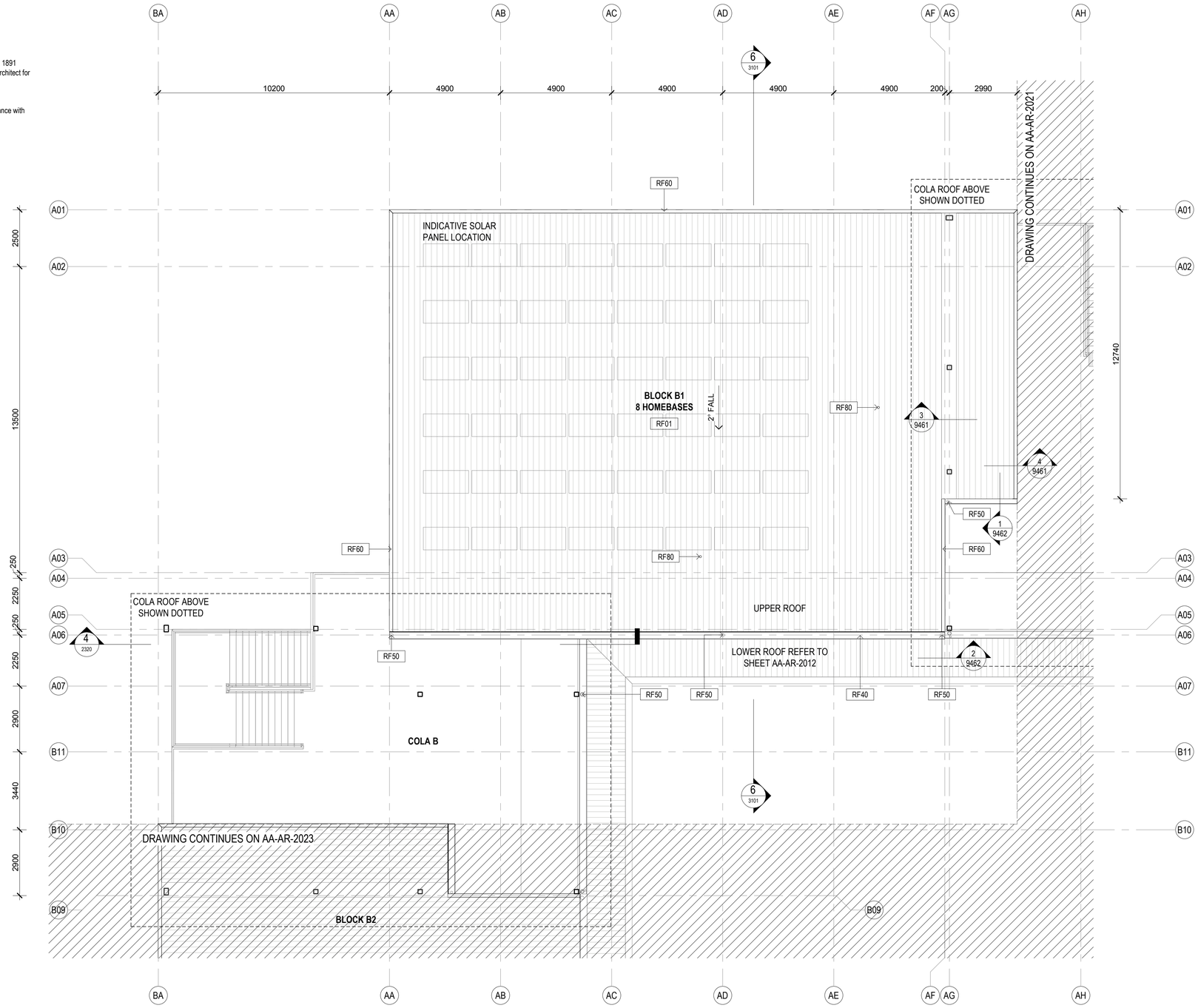
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B1 - HOMEBASE - ROOF
1 : 100

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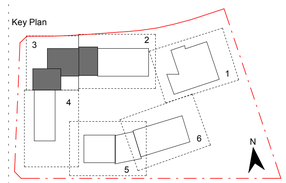
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B1 - PART 3

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2022	1

2/08/2019 7:23:22 PM

ROOF SYSTEMS:

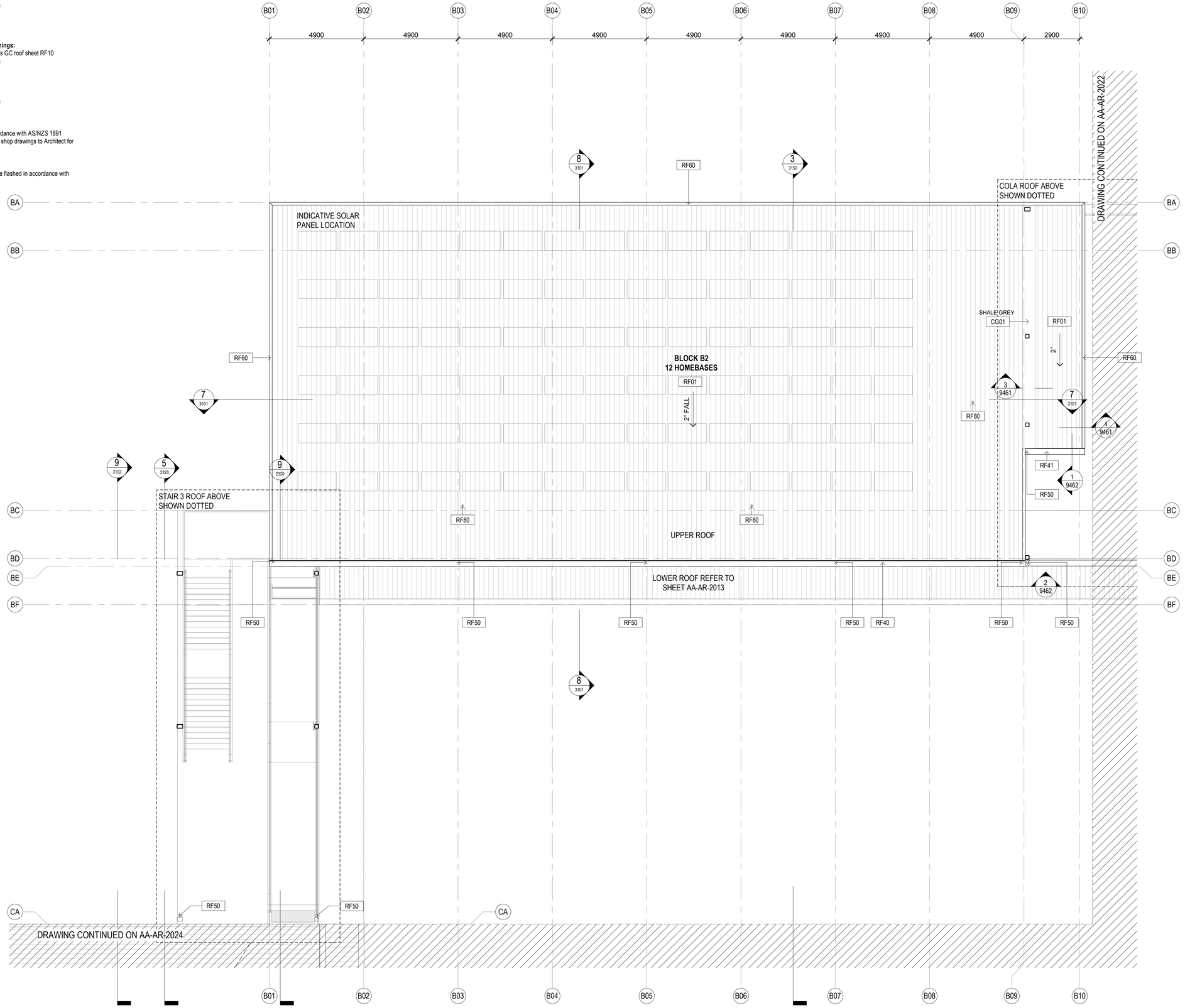
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B2 - HOMEBASE - ROOF
1 : 100

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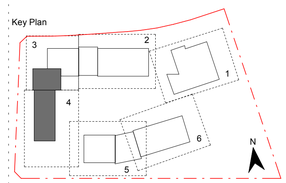
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B2 - PART 4

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2023	1

2/08/2019 7:23:31 PM

ROOF SYSTEMS:

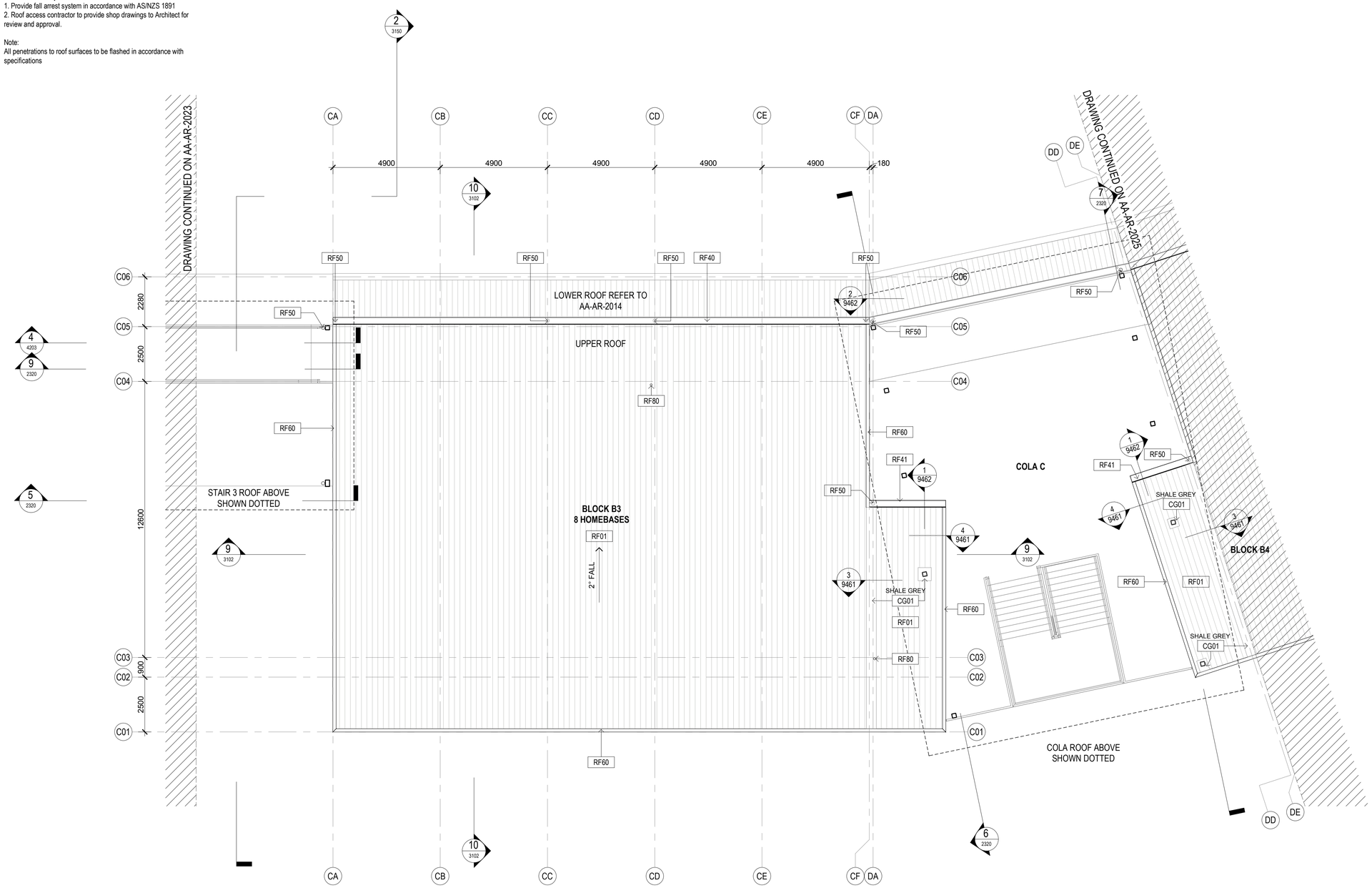
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B3 - HOMEBASE - ROOF
1 : 100

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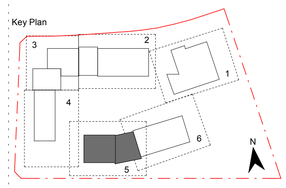
Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B3 - PART 5

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2024	1

2/08/2019 7:23:43 PM

ROOF SYSTEMS:

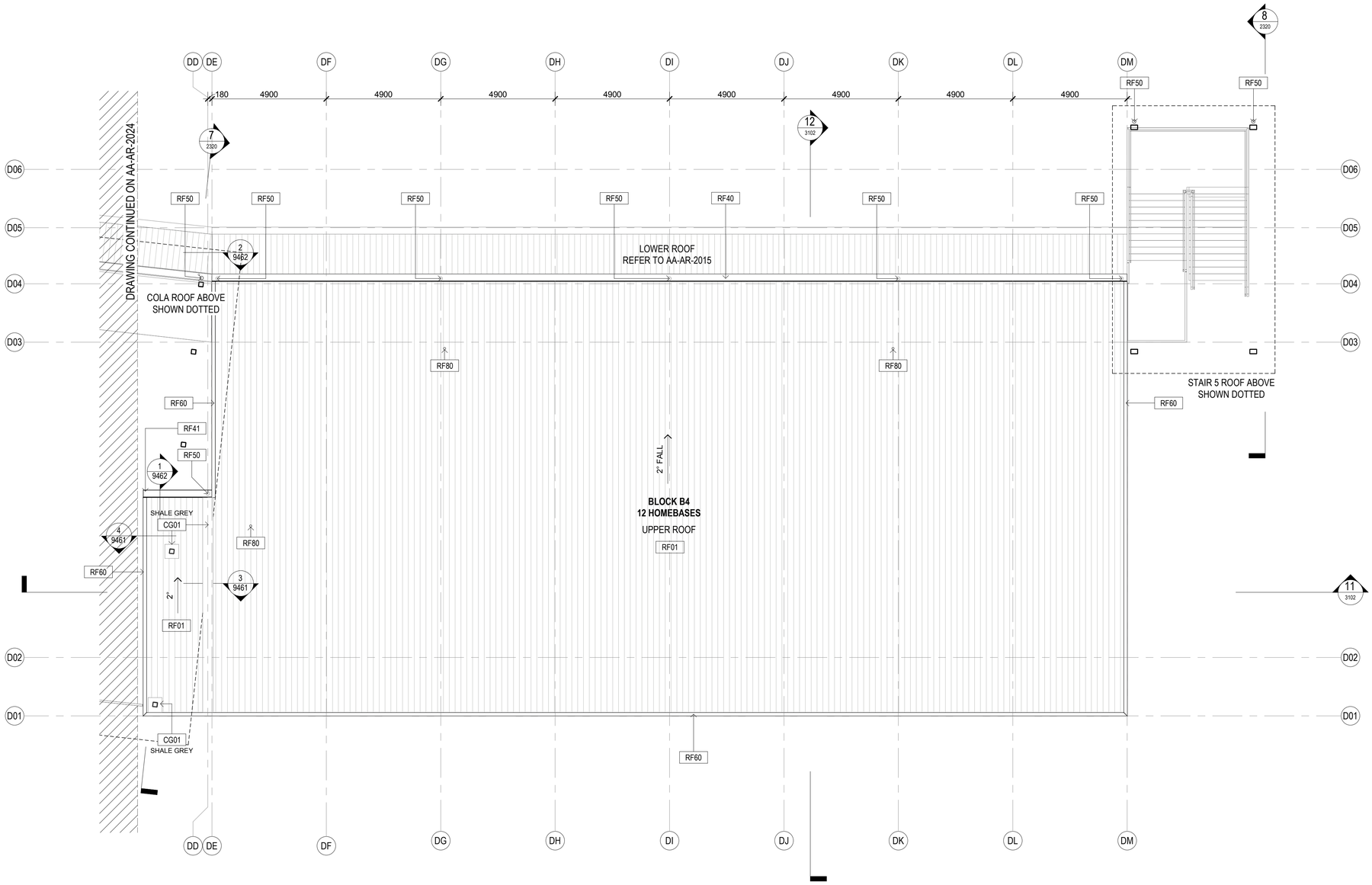
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK B4 - HOMEBASE - ROOF
1 : 100

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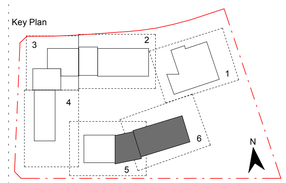
4. All dimensions are in millimetres unless noted otherwise.
5. All dimensions shall be verified on site before proceeding
6. Any areas indicated on this sheet are approximate and indicative only.

Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	PROGRESS ISSUE	10.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - BLOCK B4 - PART 6

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2025	1

2/08/2019 7:23:32 PM

ROOF SYSTEMS:

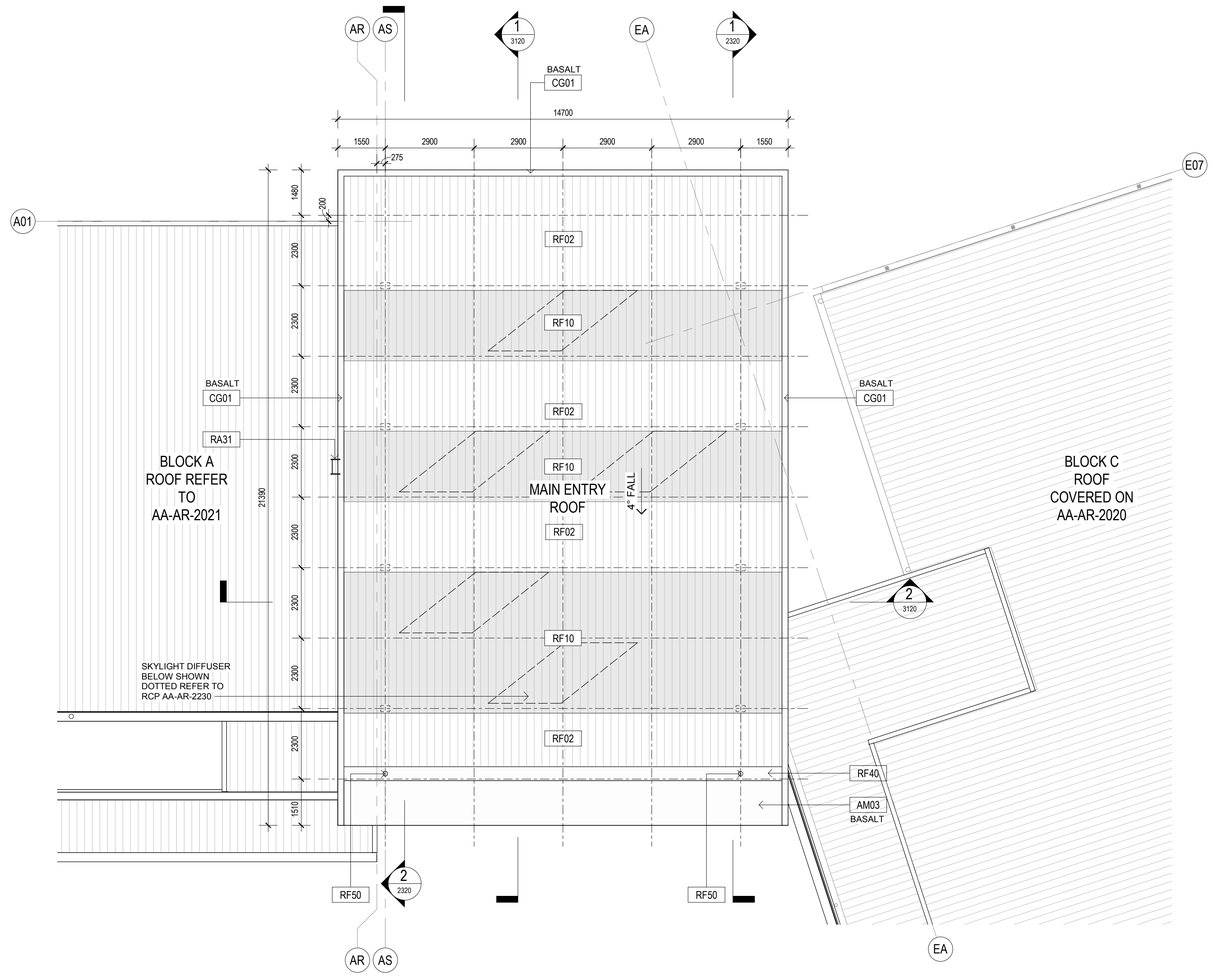
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 BLOCK C - HALL - MAIN ENTRY ROOF
1 : 100

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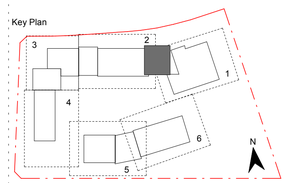
Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - CANOPY - MAIN ENTRY

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2030	1

2/08/2019 7:24:07 PM

ROOF SYSTEMS:

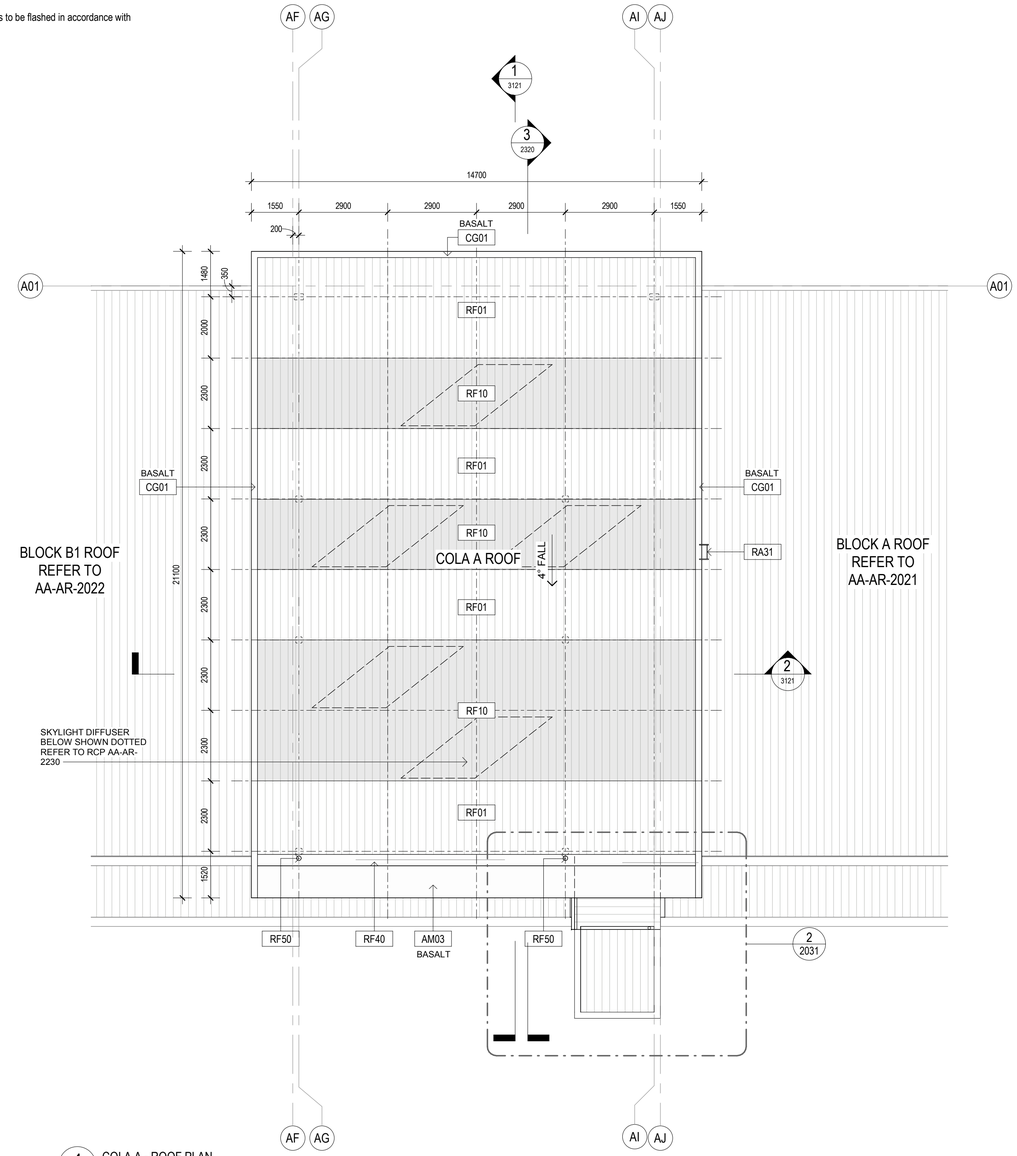
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

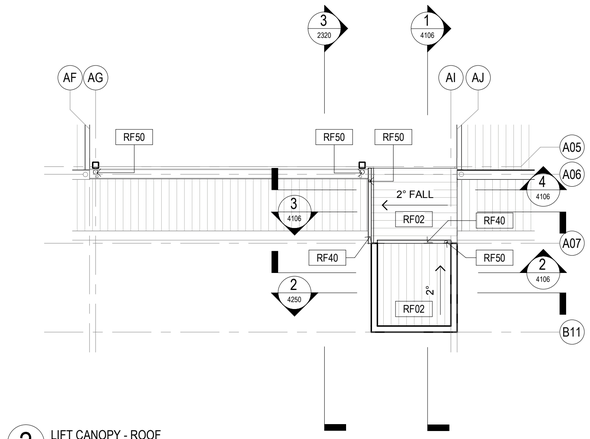
ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COLA A - ROOF PLAN
1 : 100



2 LIFT CANOPY - ROOF
1 : 100

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Drawing Notes:
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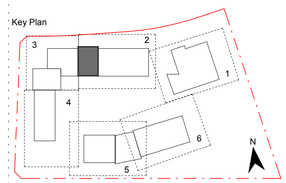
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
ROOF PLAN - COLA A

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2031	1

2/08/2019 7:24:17 PM

ROOF SYSTEMS:

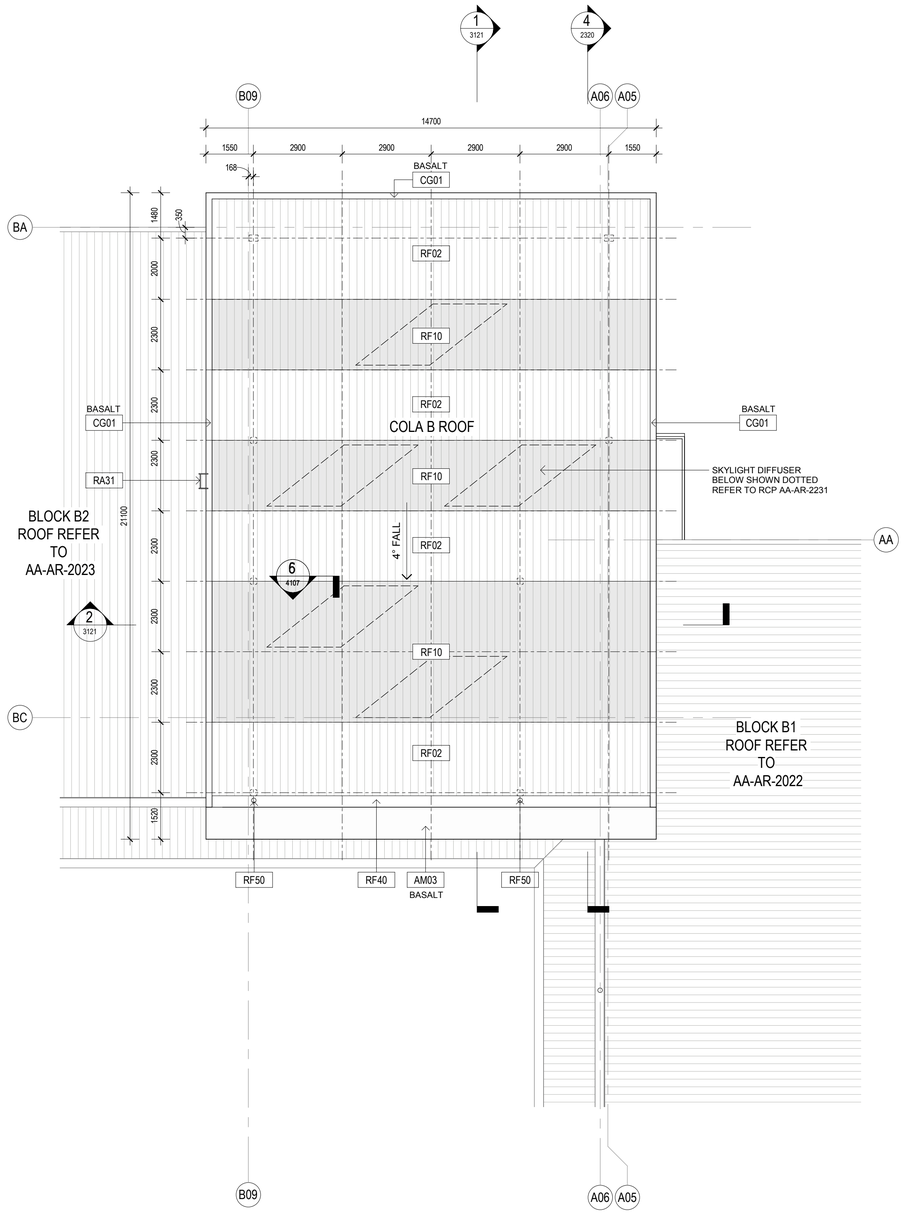
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COLA B - ROOF PLAN
1 : 100

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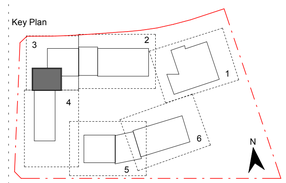
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
ROOF PLAN - COLA B

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2032	1

2/08/2019 7:24:22 PM

ROOF SYSTEMS:

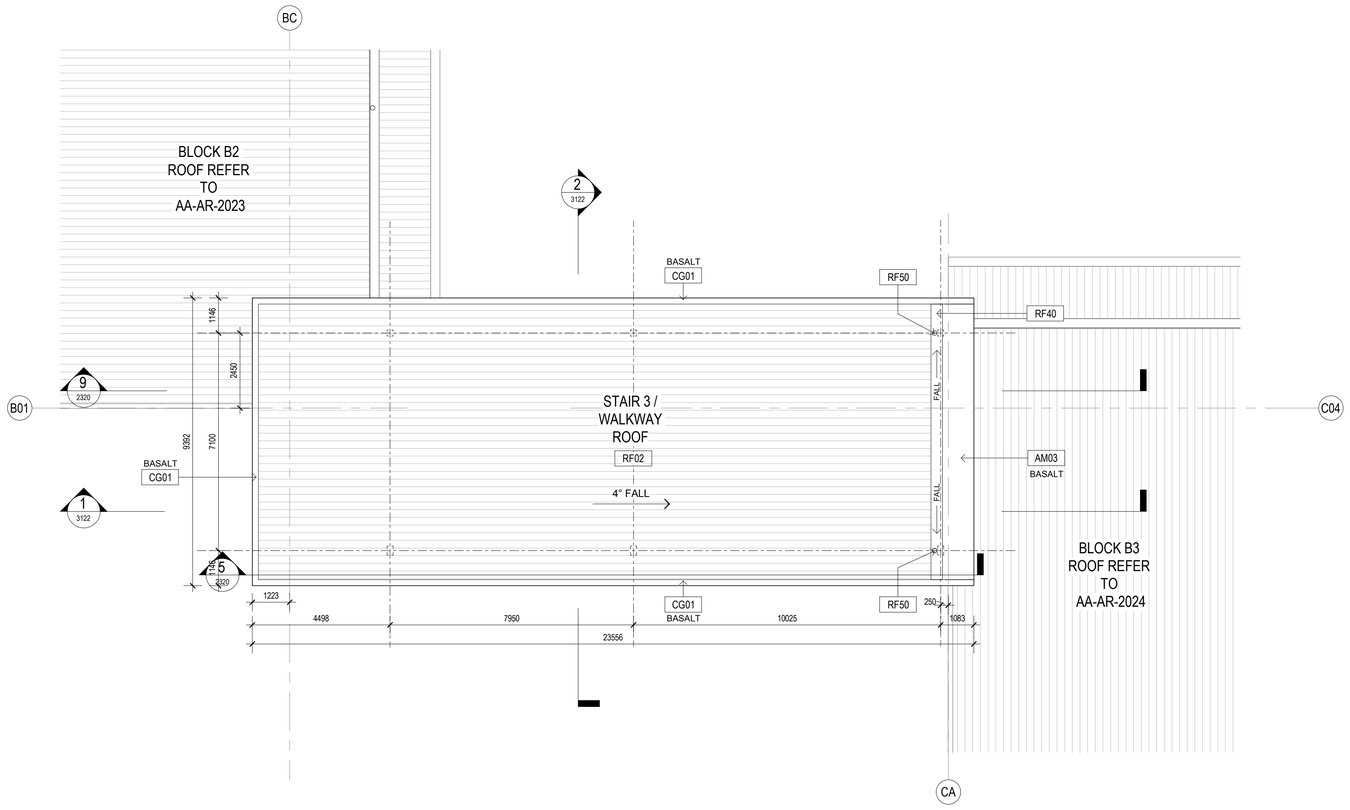
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COVERED WALKWAY STAIR 3 - ROOF
1 : 100

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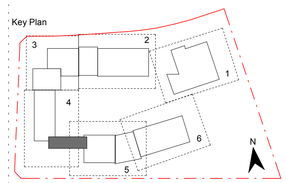
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

Client
NSW GOVERNMENT Education

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nom architect M. Sheldon 3990

Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
ROOF PLAN - CANOPY
STAIR 3 / WALKWAY

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2033	1

2/08/2019 7:24:26 PM

ROOF SYSTEMS:

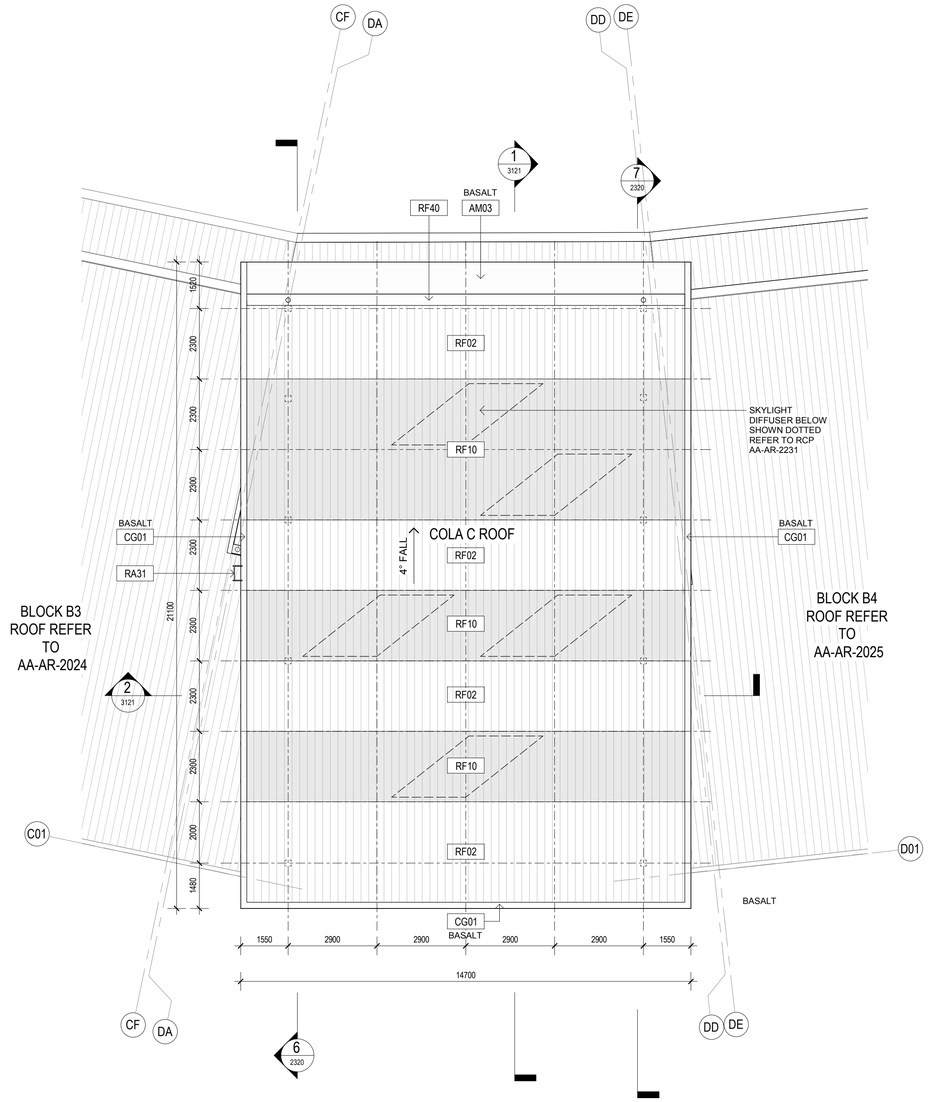
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COLA C - ROOF
1 : 100

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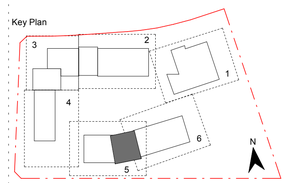
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	COLA ROOF PROGRESS ISSUE	24.05.2019
C	FOR SSD SUBMISSION	31.05.2019
D	ROOF EXTENTS UPDATED	07.06.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
RICHARD CROOKES CONSTRUCTIONS

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architecture interior design urban design landscape
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - COLA C

Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No 180645 | Drawing No AA-AR-2034 | Issue 1

2/08/2019 7:24:31 PM

ROOF SYSTEMS:

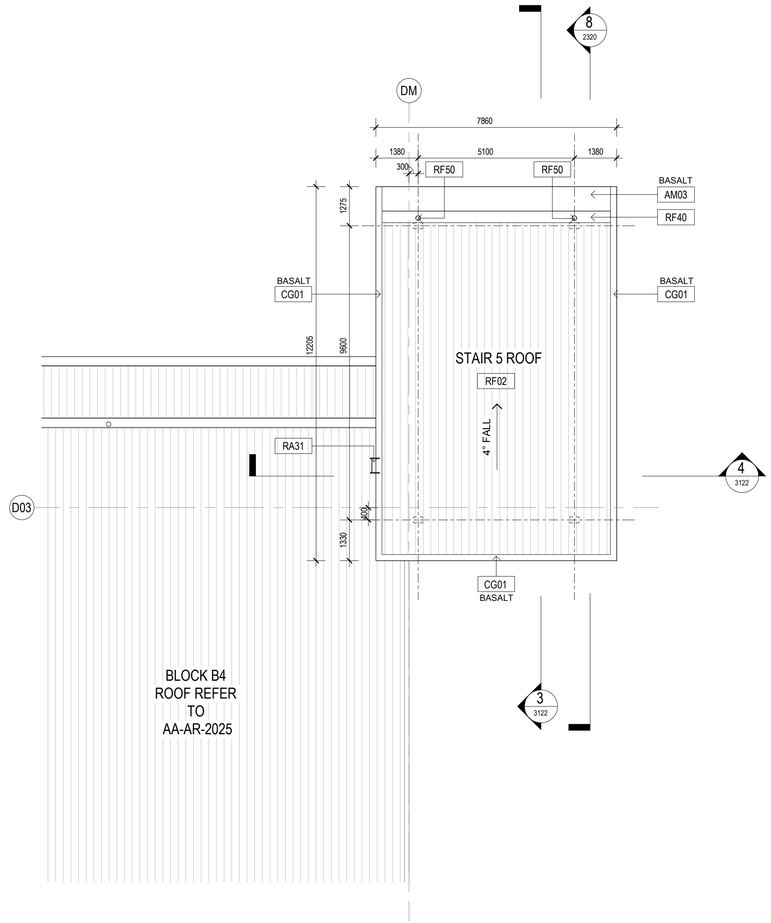
ROOF TYPE 1 - Buildings:
1. Trimdek roof sheet RF01
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh
4. IN10 Roof Insulation
5. RA Safety Mesh

ROOF TYPE 2 - COLAs & Hall Awnings:
1. Trimdek roof sheet RF01/ Webglas GC roof sheet RF10
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

ROOF TYPE 3 - Awnings:
1. Trimdek roof sheet RF02
2. IN41 Thermo Reflective Insulation
3. RA Safety Mesh

Roof Access Requirements
1. Provide fall arrest system in accordance with AS/NZS 1891
2. Roof access contractor to provide shop drawings to Architect for review and approval.

Note:
All penetrations to roof surfaces to be flashed in accordance with specifications



1 COVERED STAIR 1 - ROOF
1 : 100

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Drawing Notes:
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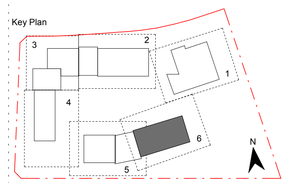
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	DRAFT DETAILED DESIGN	14.06.2019
D	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



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architecture interior design urban design landscape
nom architect M. Sheldon 3990

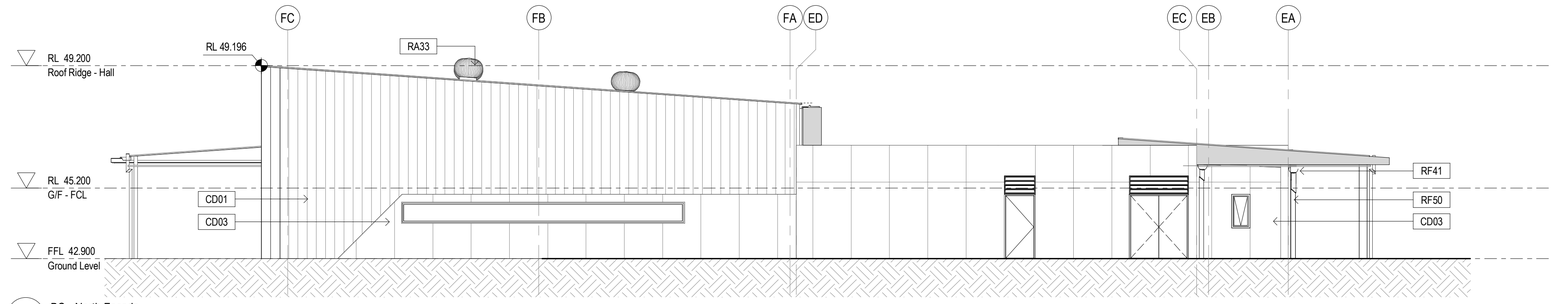
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ROOF PLAN - CANOPY - B4/ STAIR 5

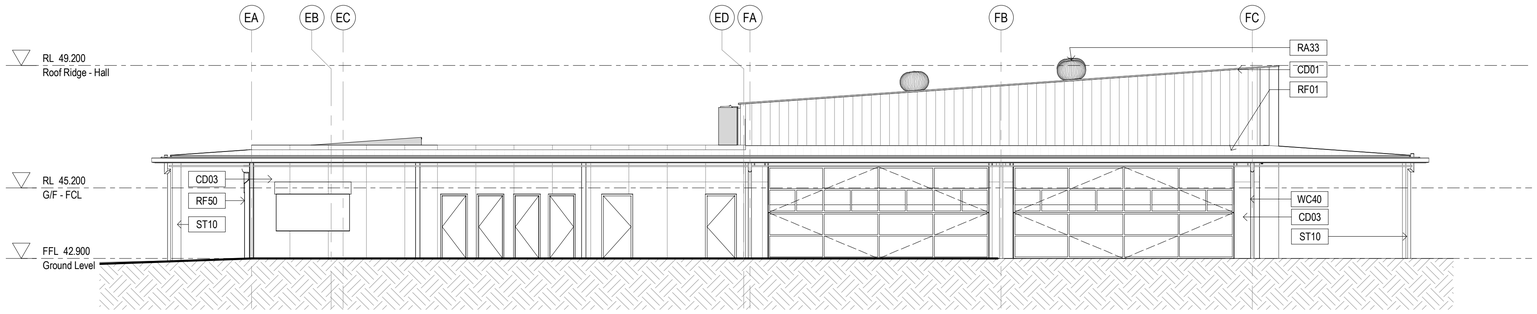
Scale @ A1	As indicated
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	DN
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-2035	1

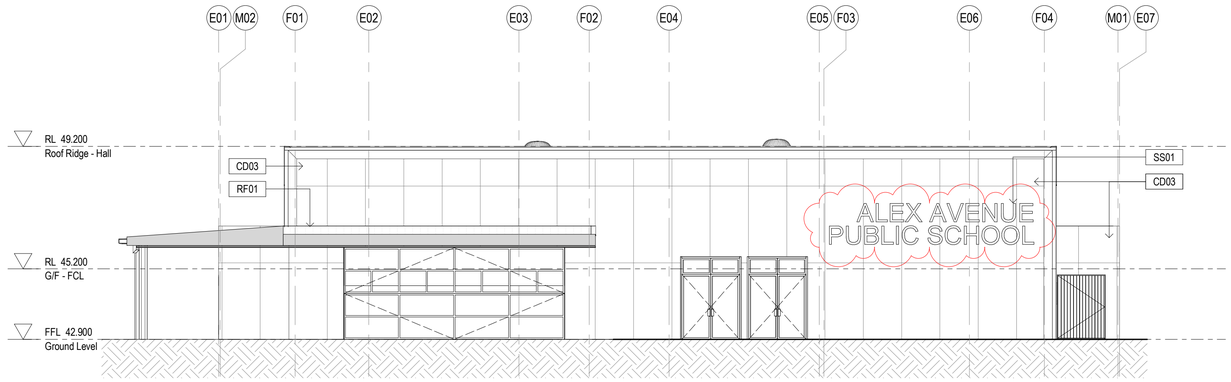
2/08/2019 7:24:44 PM



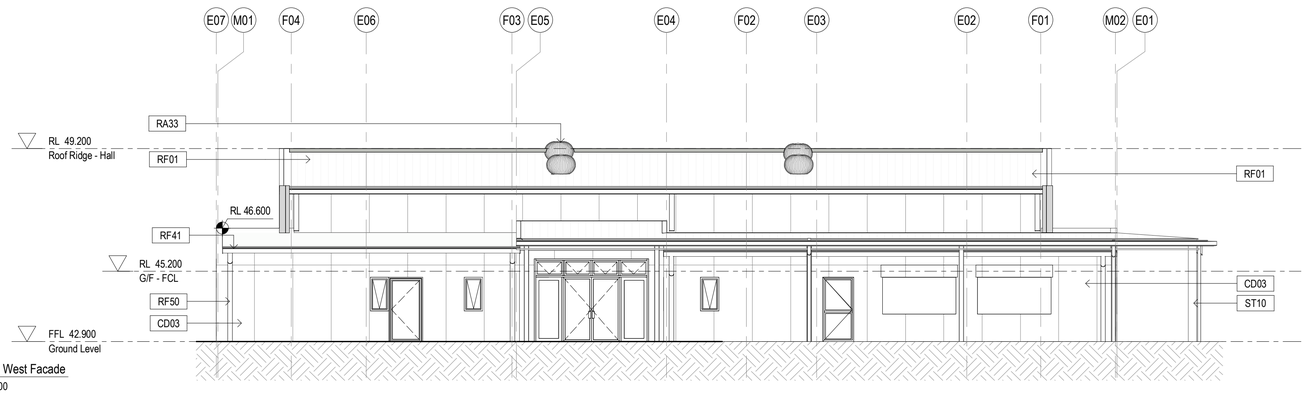
1 BC - North Facade
1 : 100



2 BC - South Facade
1 : 100



3 BC - East Facade
1 : 100



4 BC - West Facade
1 : 100

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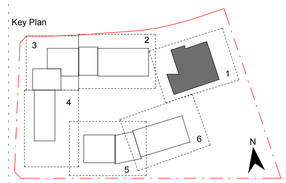
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	10.04.2019
C	DRAFT DETAILED DESIGN	17.04.2019
D	PROGRESS ISSUE	10.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



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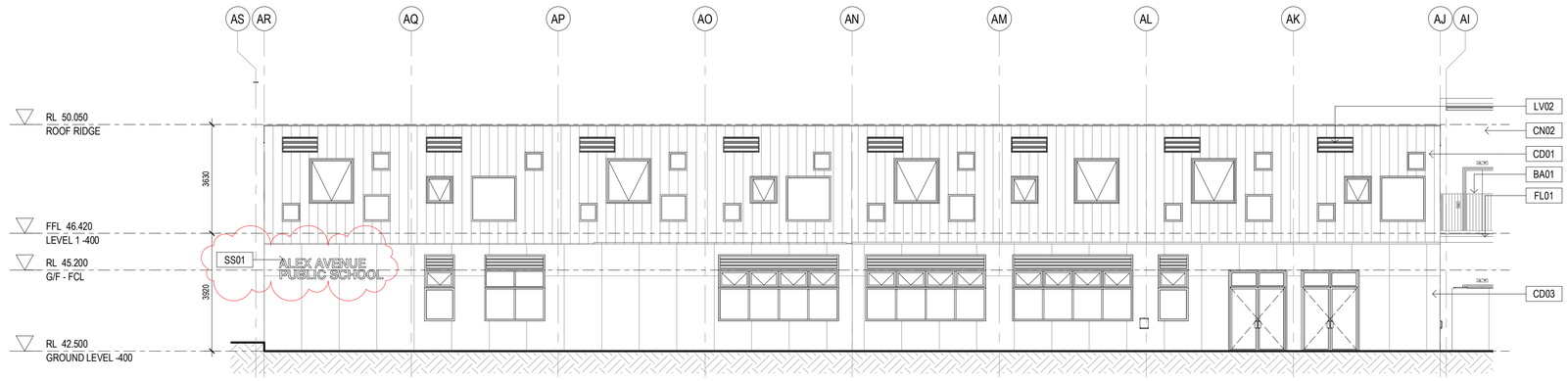
nom architect M. Sheldon 3990

Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK C

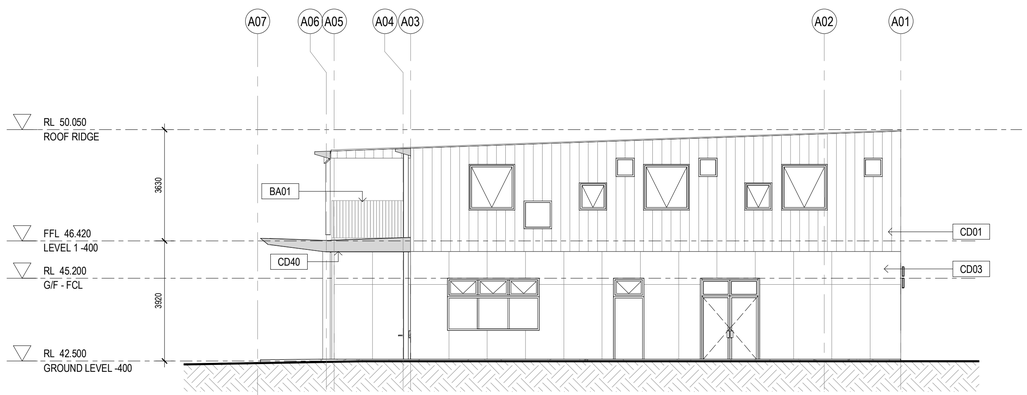
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3000	1

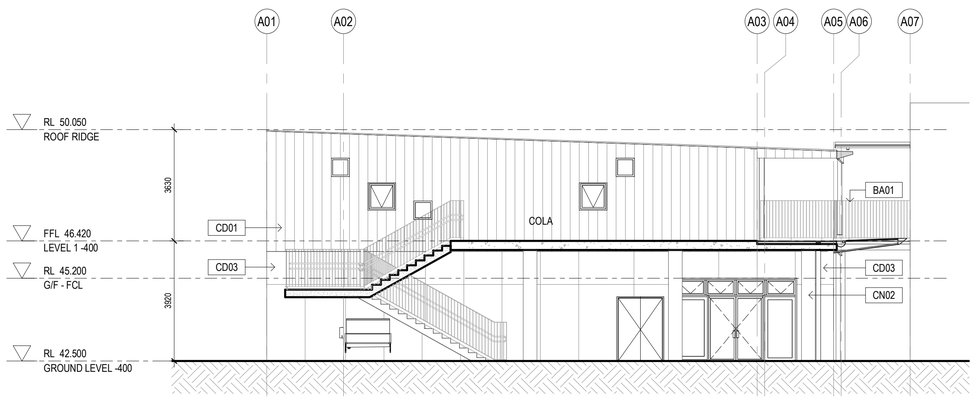


1 BA - North Facade
1 : 100

2 BA - South Facade
1 : 100



3 BA - East Facade
1 : 100



4 BA - West Section-Elevation
1 : 100

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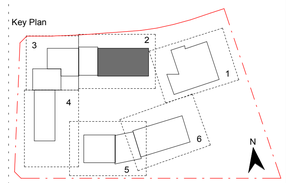
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	17.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	WINDOW LOCATIONS REVISED	07.06.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



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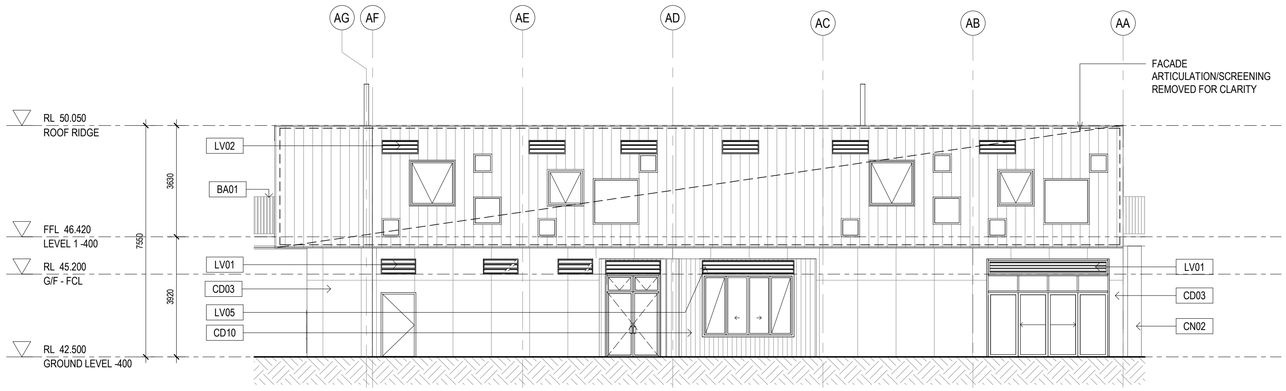
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK A

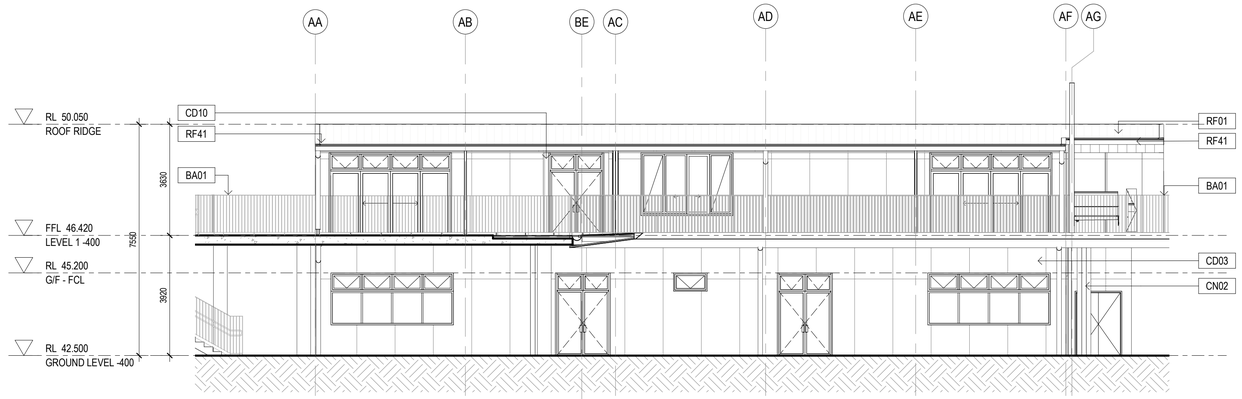
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3001	1

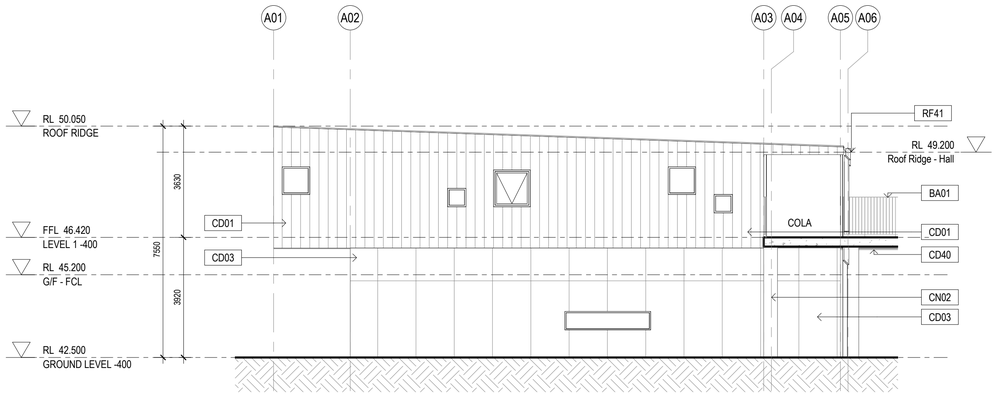
7/08/2019 8:39:12 PM



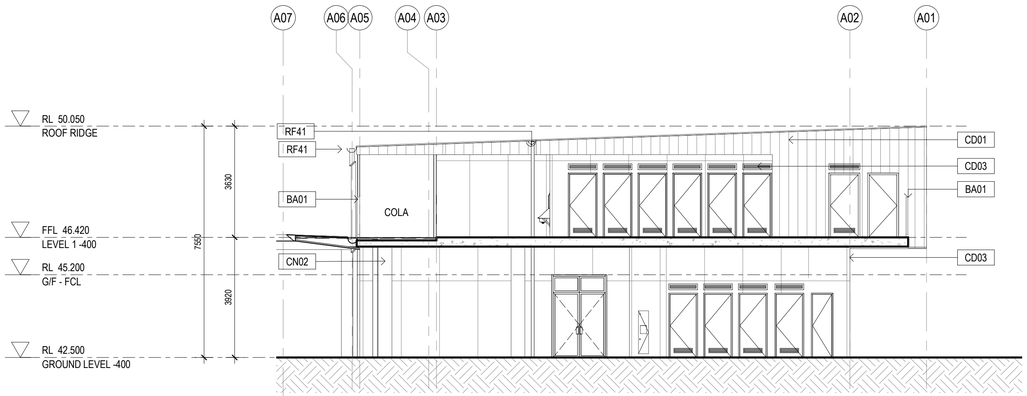
1 HOMEBASE B1 - North Facade
1 : 100



2 HOMEBASE B1 - South Facade
1 : 100



3 HOMEBASE B1 - West Facade
1 : 100



4 HOMEBASE B1 - East Section-Elevation
1 : 100

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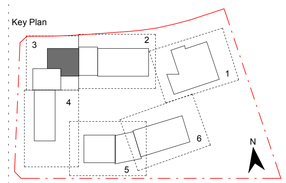
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	WINDOW ELEVATION AMENDED	14.05.2019
E	FOR SSD SUBMISSION	31.05.2019
F	DRAFT DETAILED DESIGN	14.06.2019
G	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



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architecture interior design urban design landscape
nom architect M. Sheldon 3990

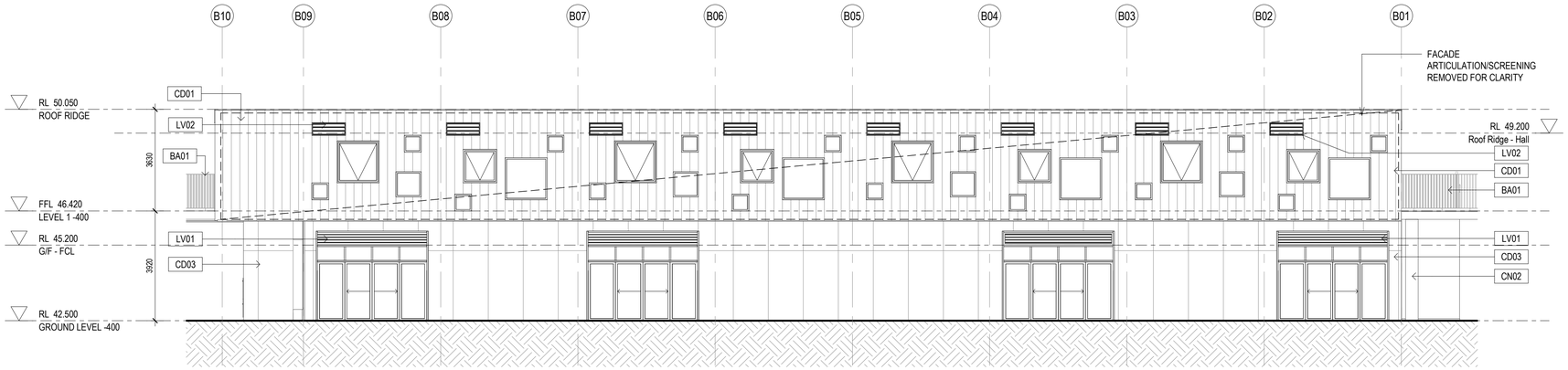
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B1

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

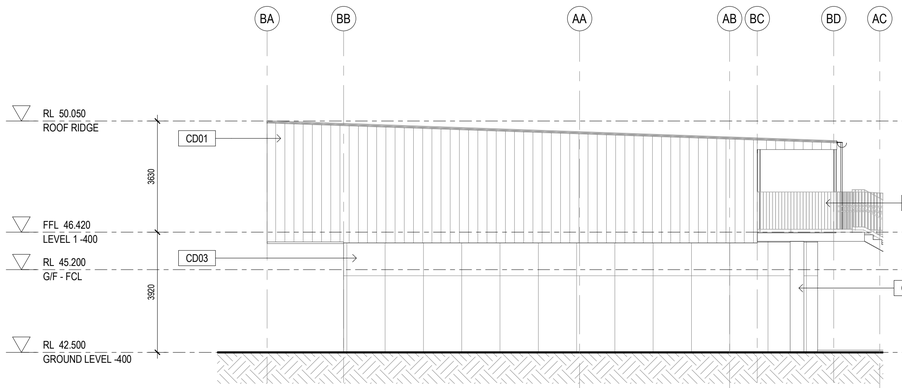
Project No	Drawing No	Issue
180645	AA-AR-3002	1

8/8/2019 9:08:31 AM

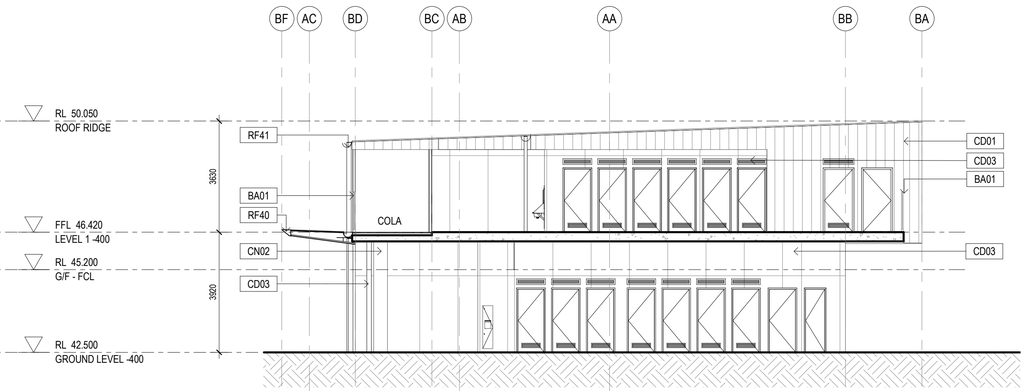


4 HOMEBASE B2 - West Facade
1 : 100

3 HOMEBASE B2 - East Facade
1 : 100



2 HOMEBASE B2 - South Facade
1 : 100



1 HOMEBASE B2- North Section-Elevation
1 : 100

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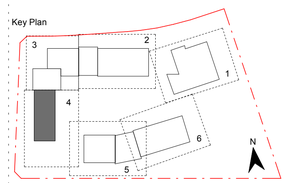
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



Contractor
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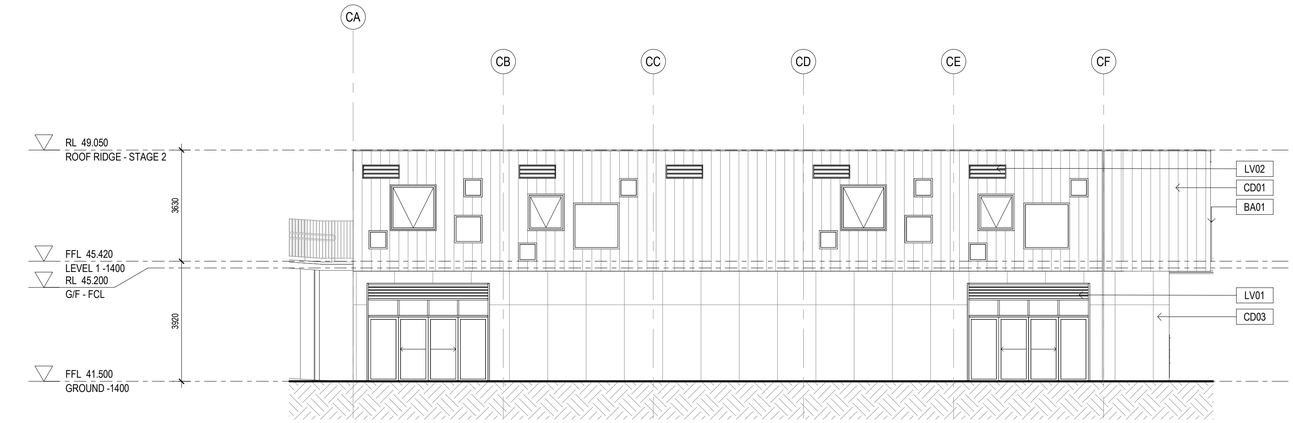
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B2

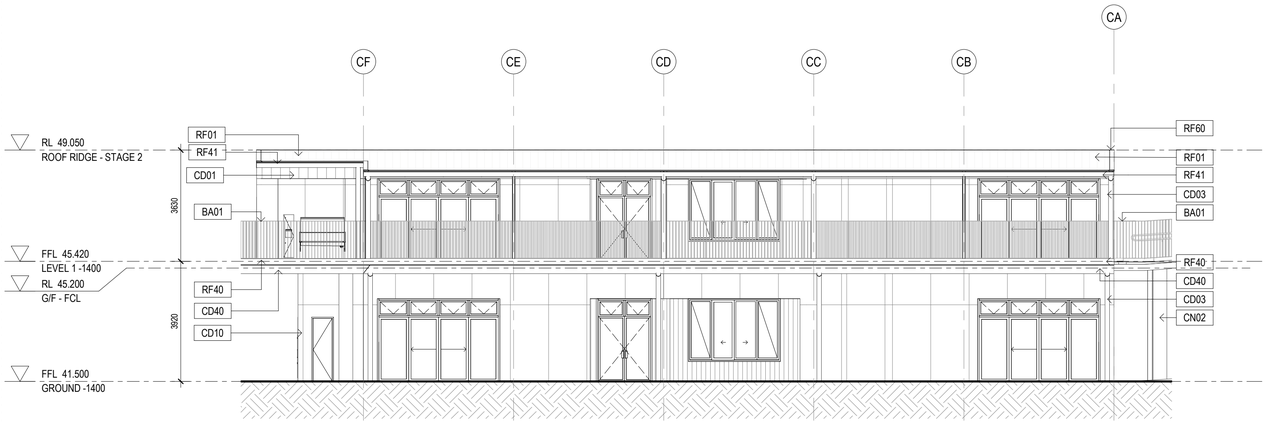
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3003	1

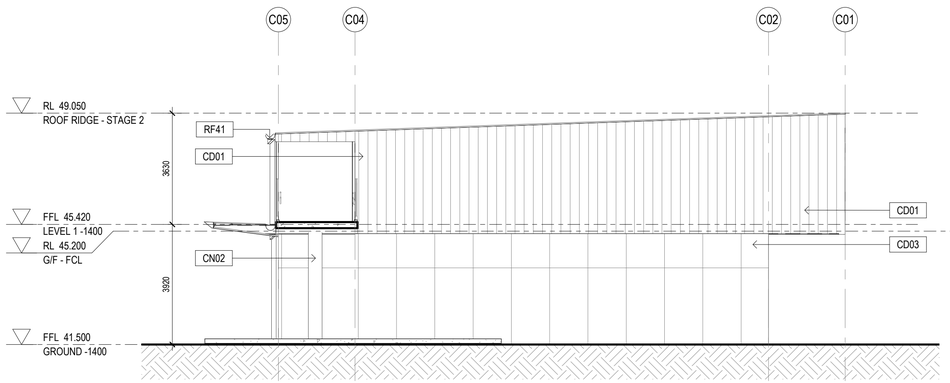
8/8/2019 9:08:37 AM



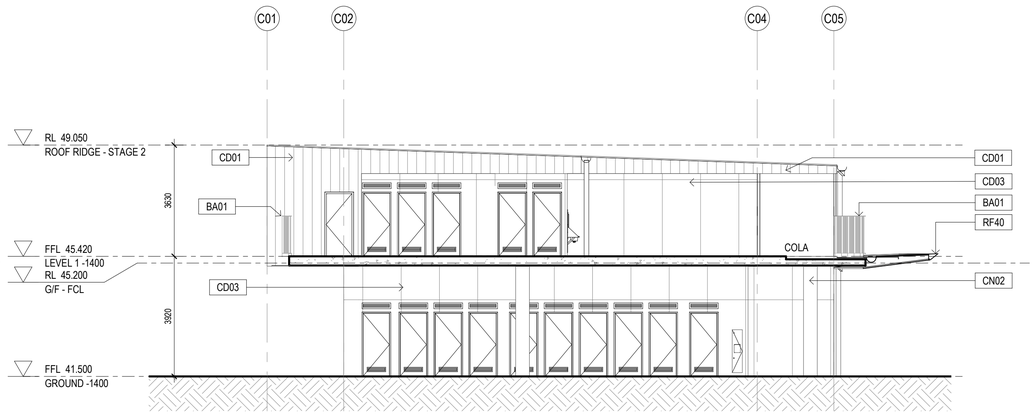
1 HOMEBASE B3 - South Facade
1 : 100



2 HOMEBASE B3 - North Facade
1 : 100



3 HOMEBASE B3 - West Facade
1 : 100



4 HOMEBASE B3 - East Section-Elevation
1 : 100

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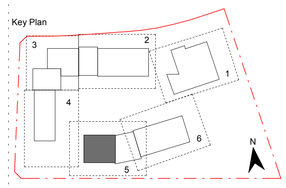
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

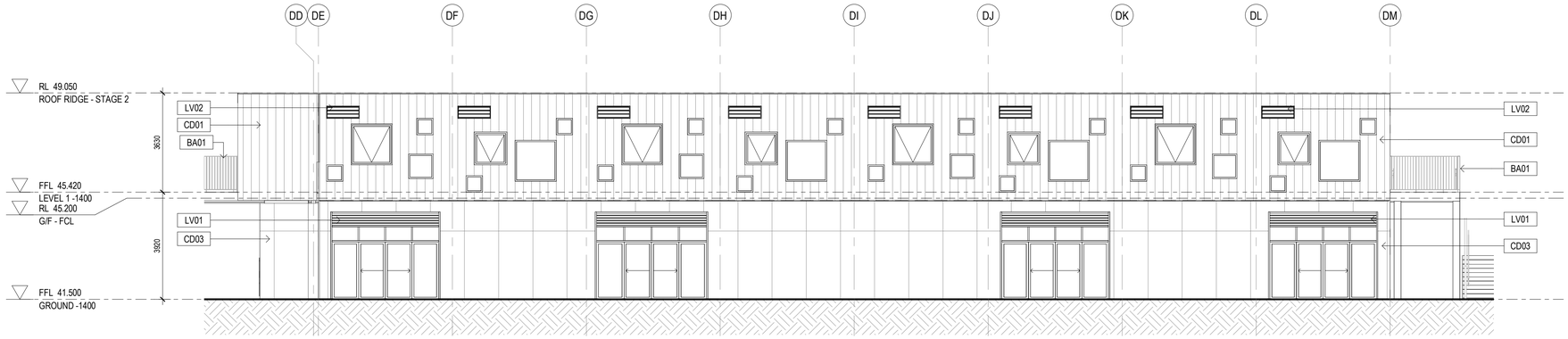
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B3

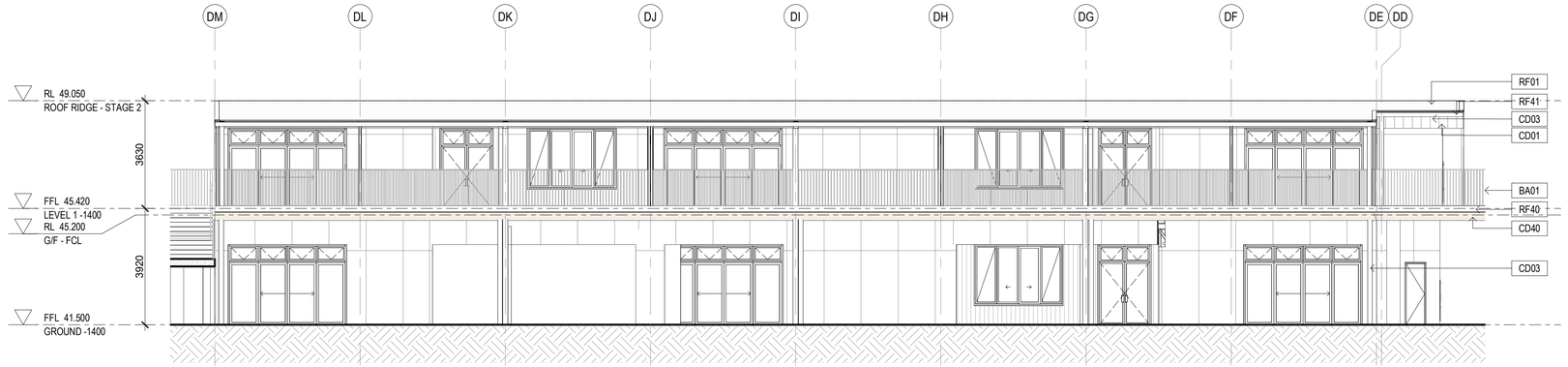
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3004	1

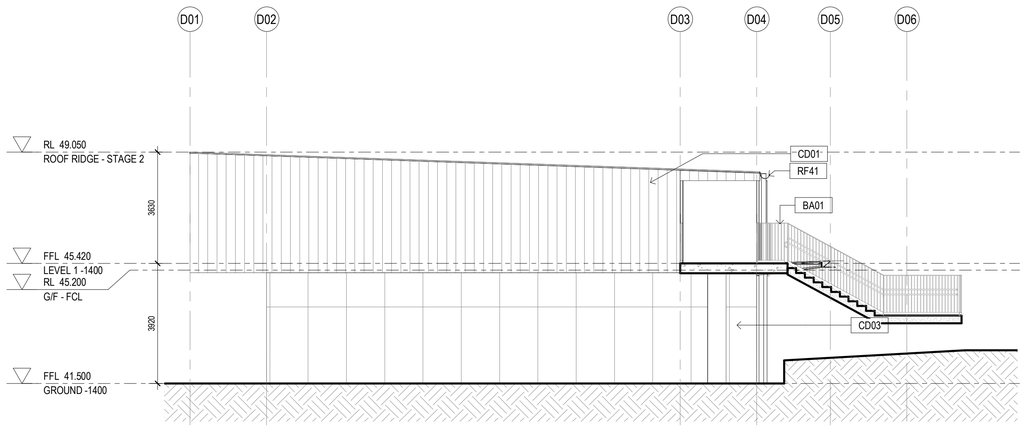
8/8/2019 9:08:49 AM



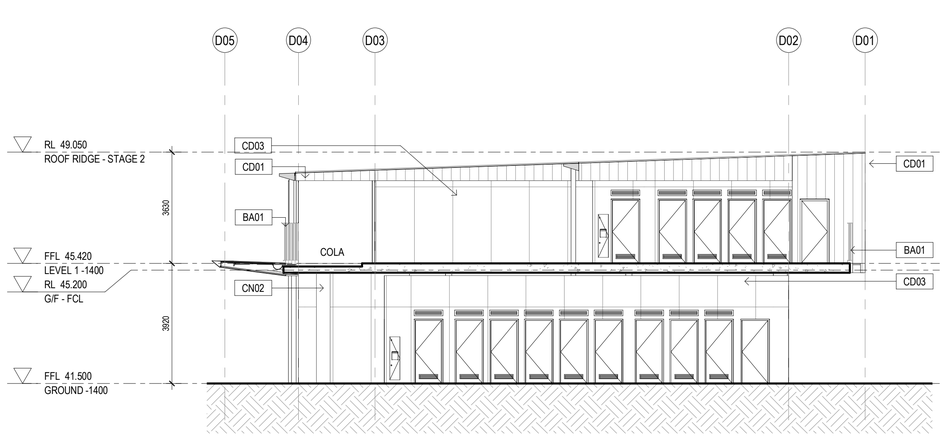
1 HOMEBASE B4 - South Facade
1 : 100



2 HOMEBASE B4 - North Facade
1 : 100



3 HOMEBASE B4 - East Facade
1 : 100



4 HOMEBASE B4 - West Section-Elevation
1 : 100

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Drawing Notes:
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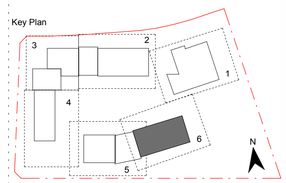
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	ISSUE FOR COORDINATION	27.03.2019
B	DRAFT DETAILED DESIGN	24.04.2019
C	PROGRESS ISSUE	10.05.2019
D	FOR SSD SUBMISSION	31.05.2019
E	DRAFT DETAILED DESIGN	14.06.2019
F	DETAILED DESIGN	21.06.2019
1	ISSUED FOR CONSTRUCTION	07.08.2019

Key Plan



Contractor
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architecture interior design urban design landscape
nom architect M. Sheldon 3990

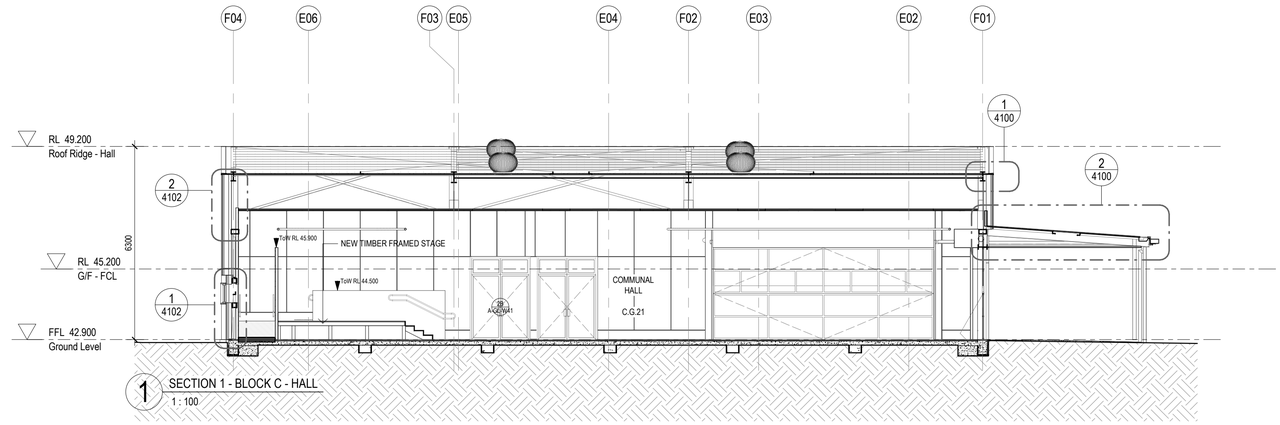
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
ELEVATIONS - BLOCK B4

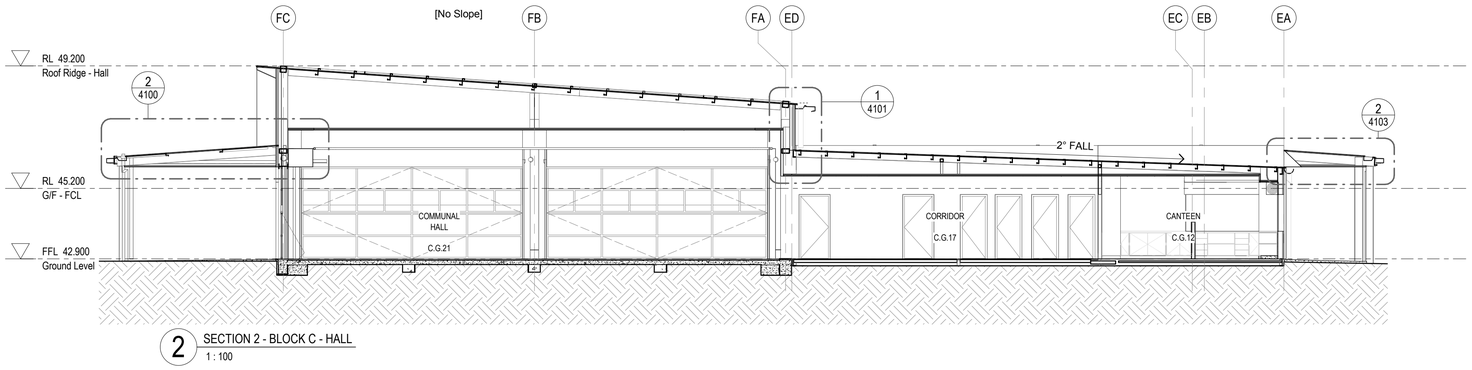
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	RS
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3005	1

7/08/2019 8:40:02 PM



1 SECTION 1 - BLOCK C - HALL
1 : 100



2 SECTION 2 - BLOCK C - HALL
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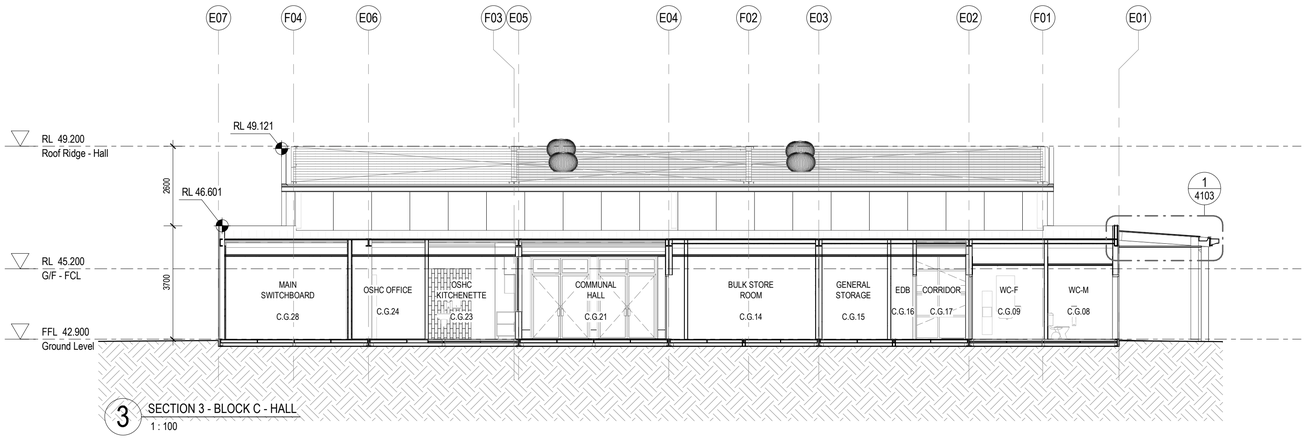
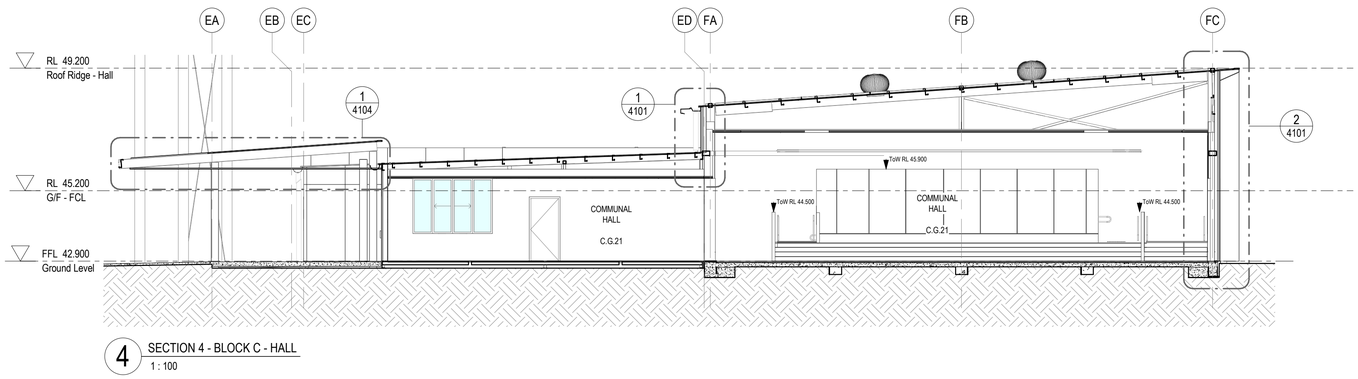


3 SECTION 3 - BLOCK C - HALL
1 : 100



4 SECTION 4 - BLOCK C - HALL
1 : 100

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Drawing Notes:
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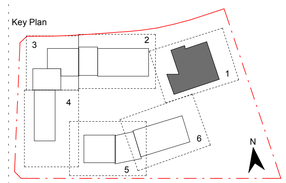
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	ISSUED FOR INFORMATION	11.06.2019
D	DRAFT DETAILED DESIGN	14.06.2019
E	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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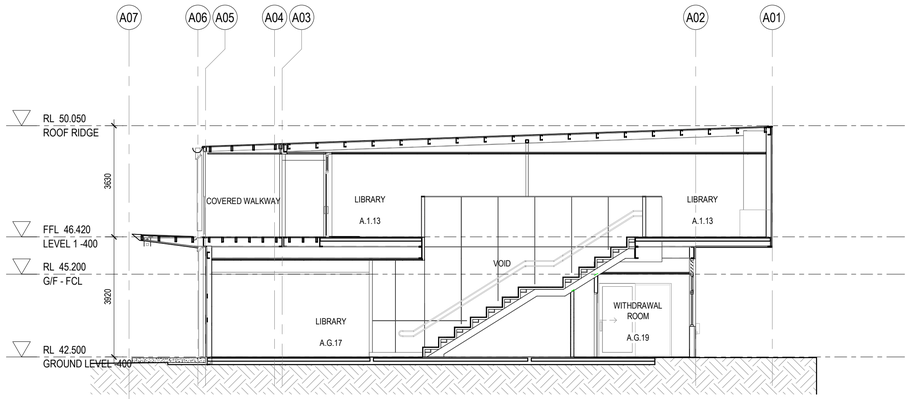
Project Title
ALEX AVENUE
PUBLIC SCHOOL

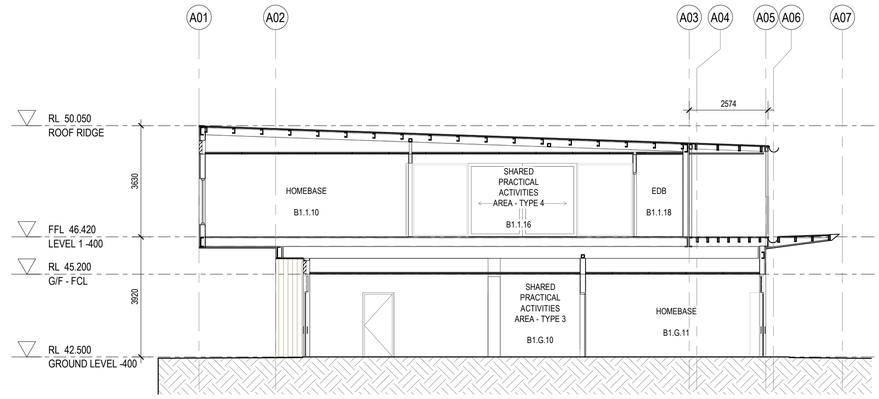
Drawing Title
SECTIONS - BLOCK C

Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	OM
Plotted and checked by	RF
Verified	JS
Approved	MB

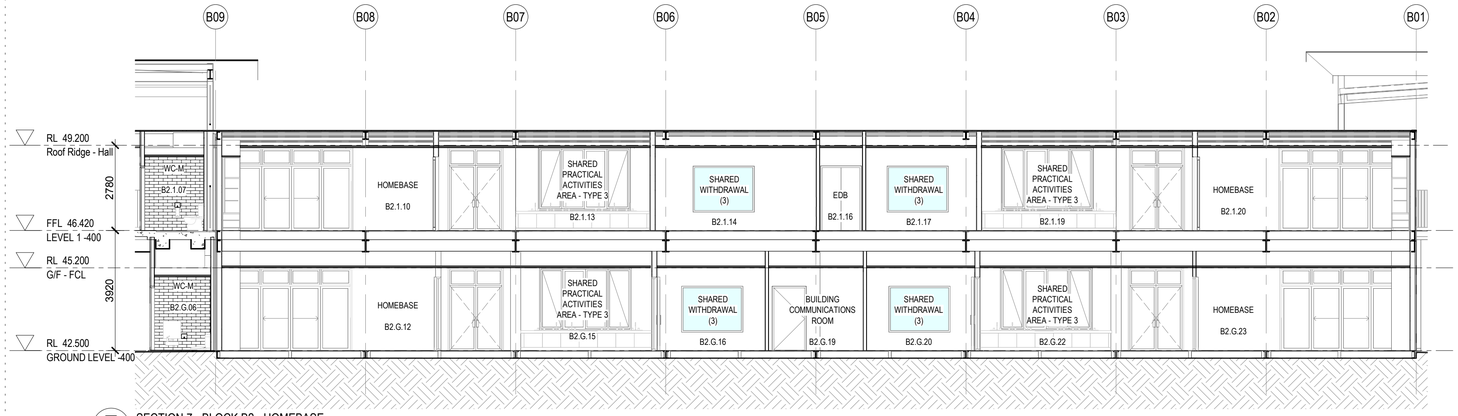
Project No	Drawing No	Issue
180645	AA-AR-3100	1



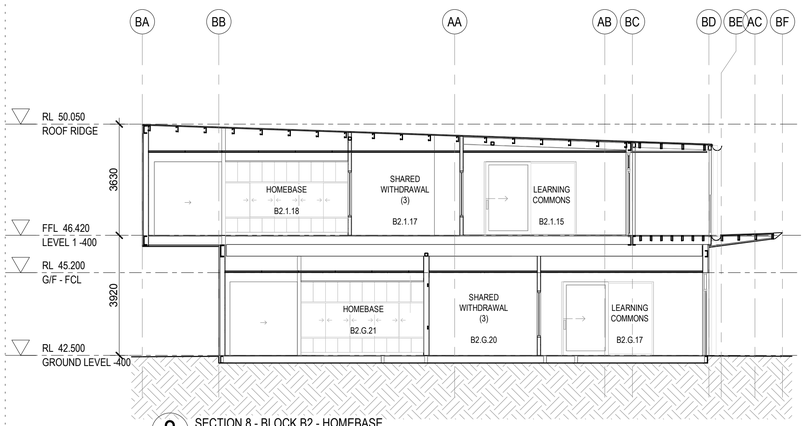
5 SECTION 5 - BLOCK A, ADMIN & LIBRARY
1 : 100



6 SECTION 7 - BLOCK B1-B3 - HOMEBASE
1 : 100



7 SECTION 7 - BLOCK B2 - HOMEBASE
1 : 100



8 SECTION 8 - BLOCK B2 - HOMEBASE
1 : 100

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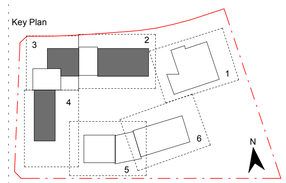
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	DRAFT DETAILED DESIGN	14.06.2019
D	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

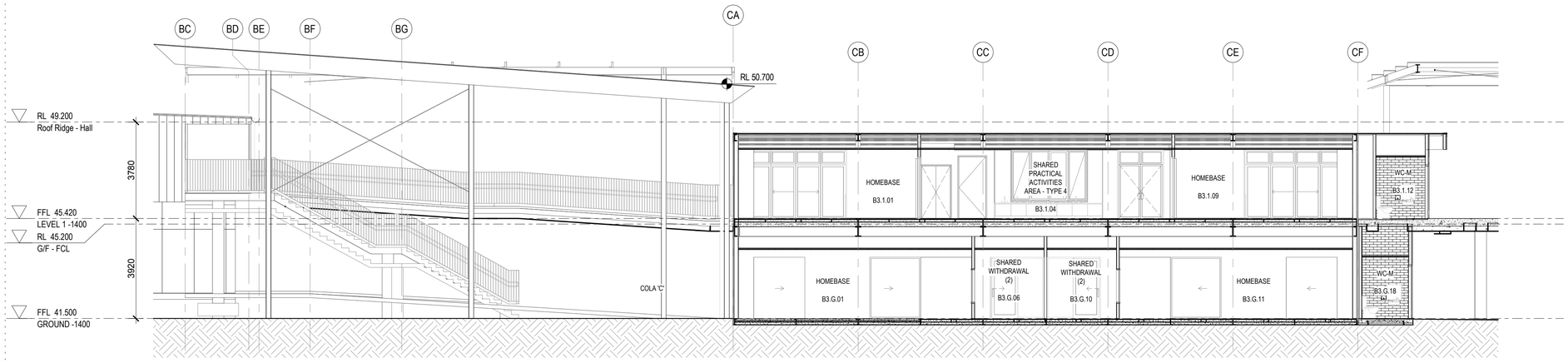
Project Title
ALEX AVENUE
PUBLIC SCHOOL

Drawing Title
SECTIONS - BLOCK A, B1 & B2

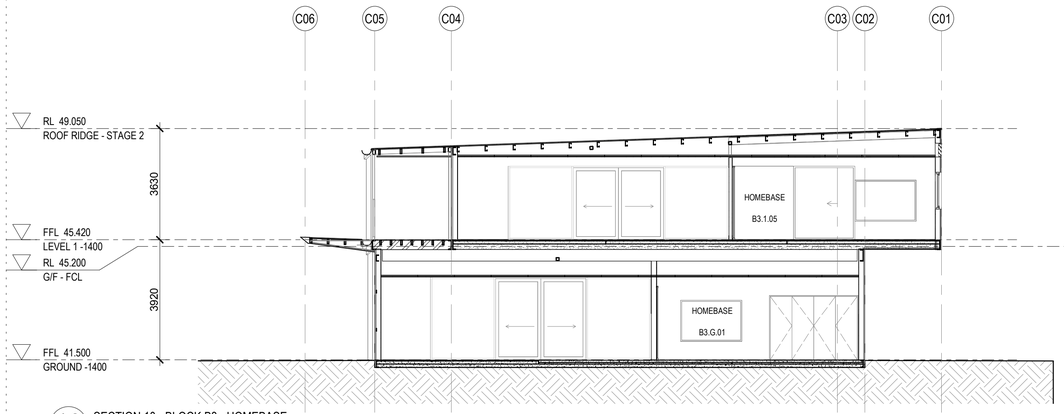
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	OM
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3101	1

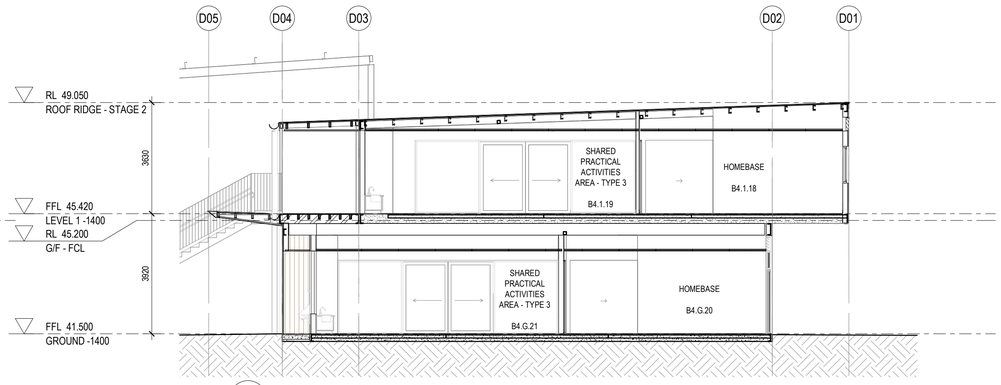
2/08/2019 7:34:49 PM



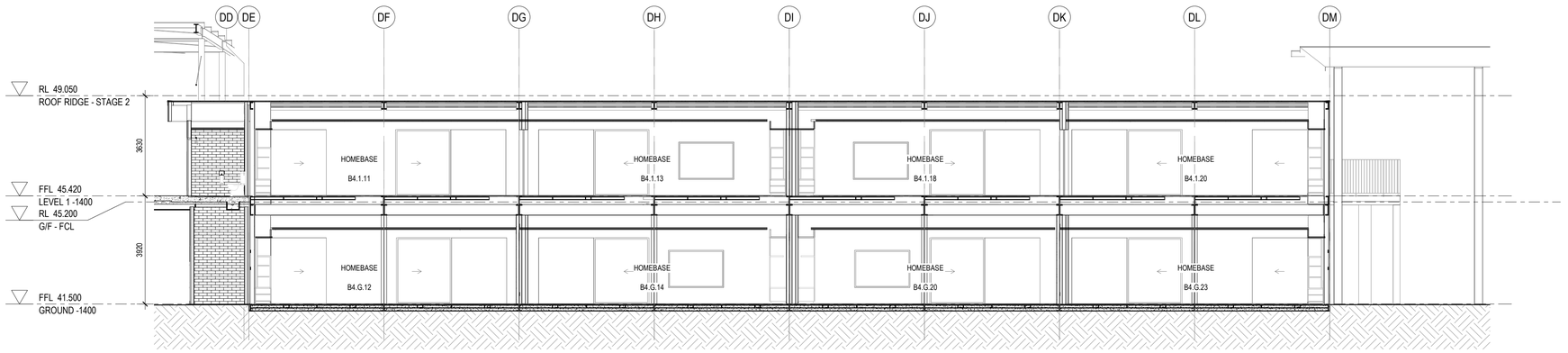
9 SECTION 9 - BLOCK B3 - HOMEBASE
1 : 100



10 SECTION 10 - BLOCK B3 - HOMEBASE
1 : 100



12 SECTION 12 - BLOCK B4 - HOMEBASE
1 : 100



11 SECTION 11 - BLOCK B4 - HOMEBASE
1 : 100

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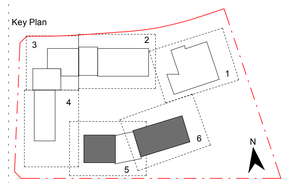
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	PROGRESS ISSUE	10.05.2019
B	FOR SSD SUBMISSION	31.05.2019
C	DRAFT DETAILED DESIGN	14.06.2019
D	DETAILED DESIGN	21.06.2019
1	FOR CONSTRUCTION	02.08.2019

Key Plan



Contractor
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nom architect M. Sheldon 3990

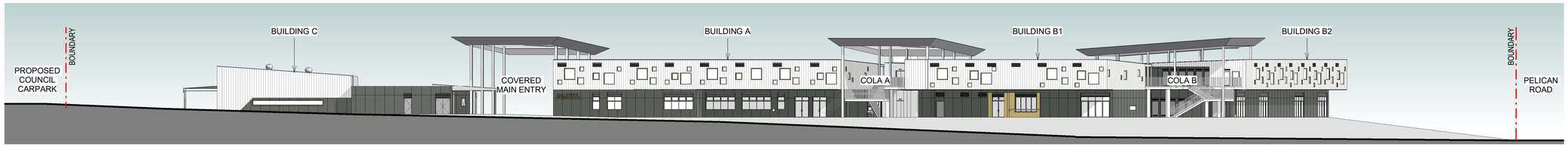
Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
SECTIONS - BLOCK B3 & B4

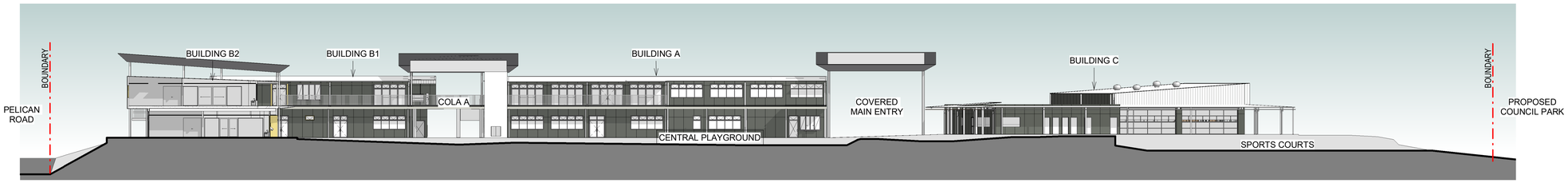
Scale @ A1	1 : 100
Drawing Created (date)	10/05/2019
Drawing Created (by)	OM
Plotted and checked by	RF
Verified	JS
Approved	MB

Project No	Drawing No	Issue
180645	AA-AR-3102	1

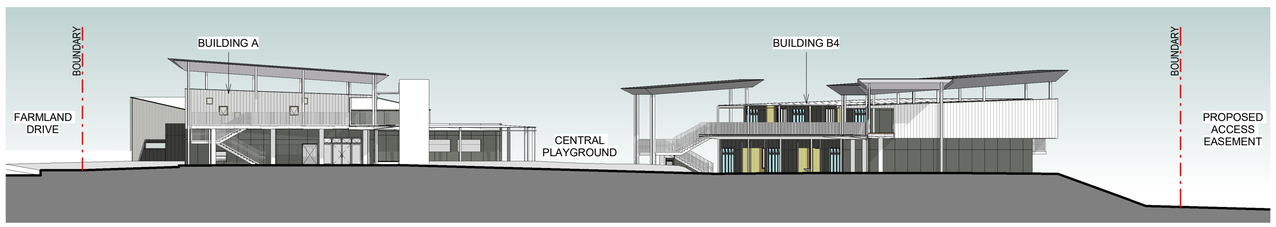
2/08/2019 7:35:11 PM



1 STREET ELEVATION - FROM FARMLAND DRIVE
1 : 300



3 SITE SECTION - FACING NORTH
1 : 300



2 SITE SECTION - FACING EAST
1 : 300

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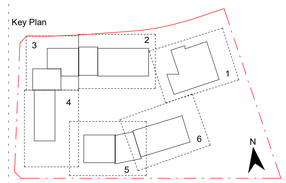
6. Any areas indicated on this sheet are approximate and indicative only.

Drawing Notes:
1. Refer to **COM-AR-9010** for legend of all symbols and codes.
2. Refer to **COM-AR-9011/9012** for all drawing notes.
3. Refer to **COM-AR-9700** for Technical Schedule

Amendments

Issue	Description	Date
A	FOR SSD SUBMISSION	31.05.2019
B	DETAILED DESIGN	21.06.2019
1	REVISED SSD SUBMISSION	21.02.2020
2	SSD SUBMISSION	06.03.2020

Key Plan



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Project Title
ALEX AVENUE PUBLIC SCHOOL

Drawing Title
STREET ELEVATION & SITE SECTIONS

Scale @ A1	1 : 300
Drawing Created (date)	05/30/19
Drawing Created (by)	DN / OM
Plotted and checked by	DN
Verified	JS
Approved	JS

Project No	Drawing No	Issue
180645	AA-AR-3150	2

6/03/2020 7:55:56 PM

DRAFT

B.SIDRA MOVEMENT SUMMARIES

B

MOVEMENT SUMMARY

Site: 2 [Pelican/ Farmland Base AM]

Site Category: -
Giveway / Yield (Two-Way)

Movement Performance - Vehicles												
Mov ID	Turn	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South: Pelican Road												
2	T1	82	5.0	0.044	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
3	R2	6	5.0	0.004	4.2	LOS A	0.0	0.1	0.30	0.47	0.30	37.9
Approach		88	5.0	0.044	0.3	NA	0.0	0.1	0.02	0.03	0.02	39.8
East: Farmland Drive												
4	L2	13	5.0	0.285	3.7	LOS A	1.3	9.7	0.39	0.58	0.39	38.0
6	R2	249	5.0	0.285	5.3	LOS A	1.3	9.7	0.39	0.58	0.39	36.5
Approach		262	5.0	0.285	5.2	LOS A	1.3	9.7	0.39	0.58	0.39	36.6
North: Pelican Road												
7	L2	129	5.0	0.108	3.4	LOS A	0.0	0.0	0.00	0.30	0.00	38.7
8	T1	68	5.0	0.108	0.0	LOS A	0.0	0.0	0.00	0.30	0.00	38.5
Approach		198	5.0	0.108	2.3	NA	0.0	0.0	0.00	0.30	0.00	38.7
All Vehicles		548	5.0	0.285	3.4	NA	1.3	9.7	0.19	0.39	0.19	37.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 2 [Pelican/ Farmland Base PM]

Site Category: -
Giveway / Yield (Two-Way)

Movement Performance - Vehicles												
Mov ID	Turn	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South: Pelican Road												
2	T1	195	5.0	0.104	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
3	R2	7	5.0	0.005	4.4	LOS A	0.0	0.2	0.36	0.49	0.36	37.8
Approach		202	5.0	0.104	0.2	NA	0.0	0.2	0.01	0.02	0.01	39.9
East: Farmland Drive												
4	L2	8	5.0	0.232	3.9	LOS A	1.0	7.1	0.50	0.69	0.50	37.4
6	R2	161	5.0	0.232	6.8	LOS A	1.0	7.1	0.50	0.69	0.50	35.7
Approach		169	5.0	0.232	6.7	LOS A	1.0	7.1	0.50	0.69	0.50	35.8
North: Pelican Road												
7	L2	138	5.0	0.148	3.4	LOS A	0.0	0.0	0.00	0.23	0.00	39.0
8	T1	134	5.0	0.148	0.0	LOS A	0.0	0.0	0.00	0.23	0.00	38.9
Approach		272	5.0	0.148	1.7	NA	0.0	0.0	0.00	0.23	0.00	39.0
All Vehicles		643	5.0	0.232	2.5	NA	1.0	7.1	0.14	0.29	0.14	38.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 2 [Pelican/ Farmland Future AM]

Site Category: -
Giveway / Yield (Two-Way)

Movement Performance - Vehicles												
Mov ID	Turn	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South: Pelican Road												
2	T1	82	5.0	0.044	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
3	R2	18	5.0	0.015	5.1	LOS A	0.1	0.5	0.45	0.55	0.45	37.7
Approach		100	5.0	0.044	0.9	NA	0.1	0.5	0.08	0.10	0.08	39.4
East: Farmland Drive												
4	L2	23	5.0	0.590	5.7	LOS A	5.4	39.4	0.59	0.90	0.92	36.5
6	R2	446	5.0	0.590	9.3	LOS A	5.4	39.4	0.59	0.90	0.92	34.4
Approach		469	5.0	0.590	9.1	LOS A	5.4	39.4	0.59	0.90	0.92	34.6
North: Pelican Road												
7	L2	334	5.0	0.222	3.4	LOS A	0.0	0.0	0.00	0.38	0.00	38.4
8	T1	68	5.0	0.222	0.0	LOS A	0.0	0.0	0.00	0.38	0.00	38.2
Approach		402	5.0	0.222	2.9	NA	0.0	0.0	0.00	0.38	0.00	38.3
All Vehicles		972	5.0	0.590	5.7	NA	5.4	39.4	0.29	0.60	0.45	36.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 2 [Pelican/ Farmland Future PM]

Site Category: -
Giveway / Yield (Two-Way)

Movement Performance - Vehicles												
Mov ID	Turn	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
South: Pelican Road												
2	T1	195	5.0	0.104	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
3	R2	16	5.0	0.014	5.2	LOS A	0.1	0.4	0.46	0.56	0.46	37.6
Approach		211	5.0	0.104	0.4	NA	0.1	0.4	0.03	0.04	0.03	39.7
East: Farmland Drive												
4	L2	17	5.0	0.526	5.9	LOS A	3.7	26.8	0.65	0.98	1.00	36.0
6	R2	323	5.0	0.526	10.7	LOS A	3.7	26.8	0.65	0.98	1.00	33.7
Approach		340	5.0	0.526	10.5	LOS A	3.7	26.8	0.65	0.98	1.00	33.9
North: Pelican Road												
7	L2	294	5.0	0.235	3.4	LOS A	0.0	0.0	0.00	0.32	0.00	38.7
8	T1	134	5.0	0.235	0.0	LOS A	0.0	0.0	0.00	0.32	0.00	38.5
Approach		427	5.0	0.235	2.4	NA	0.0	0.0	0.00	0.32	0.00	38.6
All Vehicles		978	5.0	0.526	4.8	NA	3.7	26.8	0.23	0.49	0.36	37.0

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle movements.
NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

DRAFT

C. CONTINGENT CAR PARK DESIGN

C

LEGEND

- BOUNDARY
- FUTURE PERMANENT EASEMENT TO LOT 4
- SCHOOL CAR PARK ACCESS DRIVEWAY
- TEMPORARY EASEMENT TO LOT 4

STAGE 1 (ON-SITE PICK-UP/ SET-DOWN OPTION)
ASSUME COUNCIL CAR PARK NOT COMPLETED ON DAY 1 OF SCHOOL OPERATION

SOURCE:

SURVEY BASE IN GREY (EXTRACTED FROM CIVIL DRAWING)
DRAWING C104.01
REVISION 4
BY NORTHROP
DATED 07.02.2020

CIVIL DESIGN IN GREEN
DRAWING C104.01
REVISION 4
BY NORTHROP
DATED 07.02.2020

ARCHITECTURAL BASE IN BLUE (DETAIL LIMITED TO SITE BOUNDARY)
DRAWING AA-AR-1100
REVISION 5
BY GROUP GSA
DATED 21.02.2020

BUILDING 'B4'
12 HOMEBASES
G/F FFL 41.50

COVERED STAIRS

SPORTS COURTS

+ RL 41.38

+ RL 42.51

+ RL 42.82

+ RL 42.52

25 STAFF SPACES
5 PICK-UP/ DROP-OFF SPACES
1 ACCESSIBLE PICK-UP/ DROP-OFF SPACE

2.5 TYP.
5.4 TYP
5.8
6.6
7.8
5.8
3.2
6.3
6.6
5.8
3.0 TYP
6.6 TYP.
BIN STORAGE

LINE OF 6M WIDE EASEMENT
6.0
1.0
6.0

TEMPORARY EASEMENT WIDE LOT 4

OF PROPOSED EASEMENT

PROPOSED COUNCIL EASEMENT

N

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APPROVED BY	D. CHOI
DATE ISSUED	19.03.2020
SCALE	A3 0 1.25 2.5 5 1:250
CAD FILE NO.	N185450-11-P2.DWG

ALEX AVENUE PUBLIC SCHOOL
STAGE 1
ON-SITE PARKING
CONCEPT LAYOUT

DRAWING NO. N185450-11-03 SHEET 03 OF 11 ISSUE P2

LEGEND

- BOUNDARY
- FUTURE PERMANENT EASEMENT TO LOT 4
- SCHOOL CAR PARK ACCESS DRIVEWAY
- TEMPORARY EASEMENT TO LOT 4

STAGE 1 (ON-SITE PICK-UP/ SET-DOWN OPTION)
ASSUME COUNCIL CAR PARK NOT COMPLETED ON DAY 1 OF SCHOOL OPERATION

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DATED 07.02.2020

ARCHITECTURAL BASE IN BLUE (DETAIL LIMITED TO SITE BOUNDARY)
DRAWING AA-AR-1100
REVISION 5
BY GROUP GSA
DATED 21.02.2020

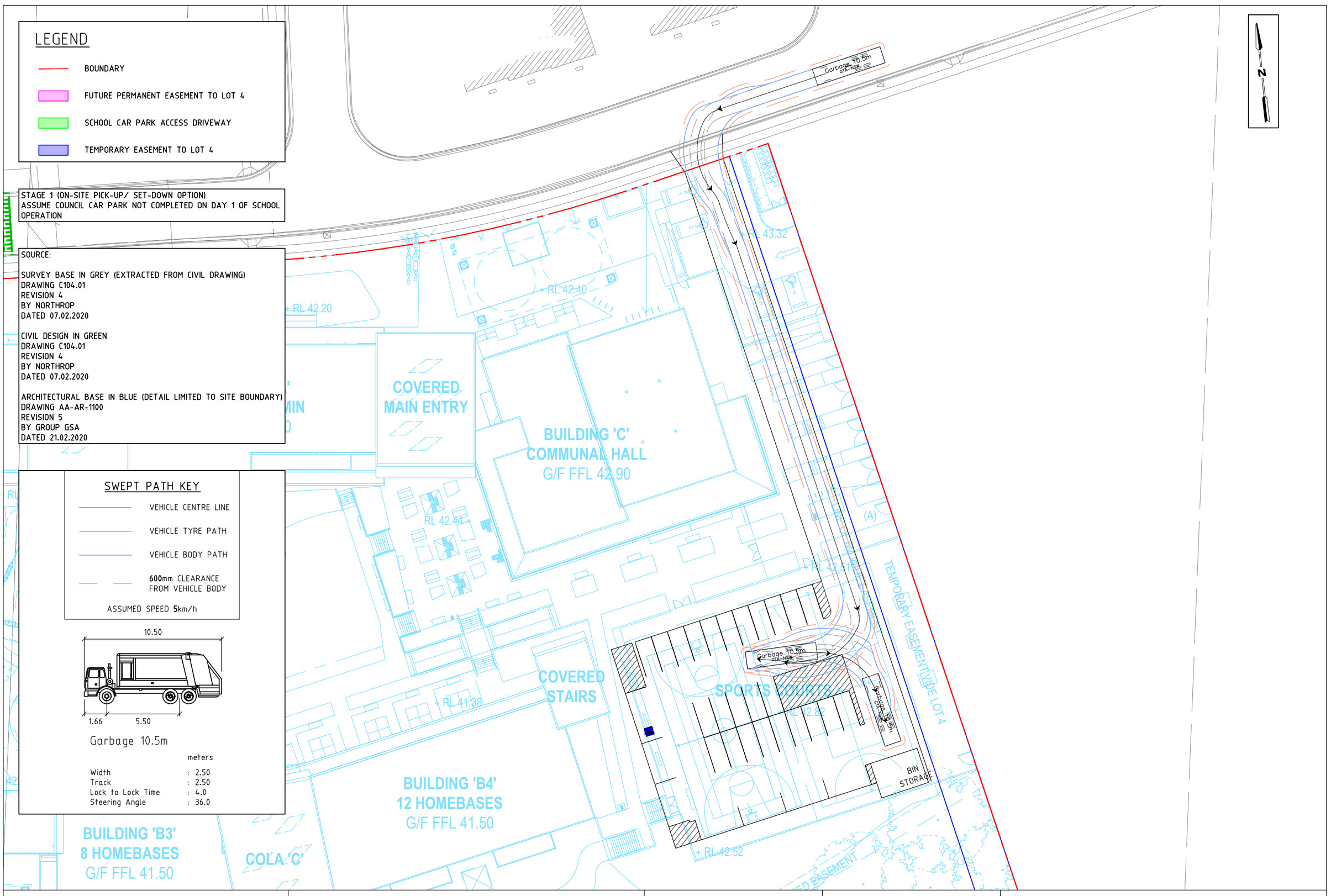
SWEPT PATH KEY

- VEHICLE CENTRE LINE
- VEHICLE TYRE PATH
- VEHICLE BODY PATH
- **600**mm CLEARANCE FROM VEHICLE BODY

ASSUMED SPEED **5**km/h

Garbage 10.5m

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 4.0
Steering Angle	: 36.0



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ALEX AVENUE PUBLIC SCHOOL
STAGE 1
ON-SITE PARKING
SWEPT PATH ASSESSMENT

DRAWING NO. N185450-11-04 SHEET 04 OF 11 ISSUE P2

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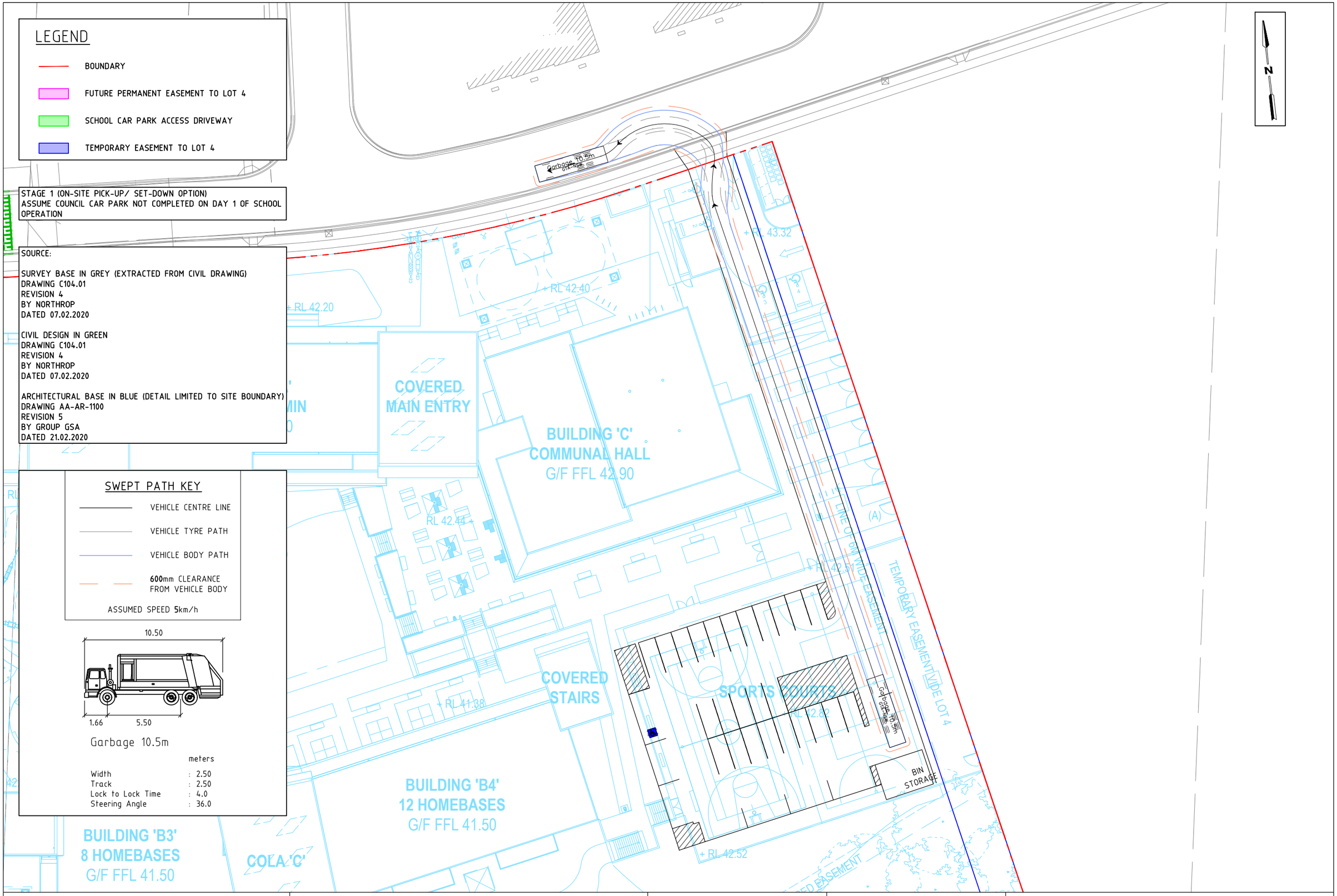

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APPROVED BY D. CHOI	DATE ISSUED 19.03.2020

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CAD FILE NO. N185450-11-P2.DWG

ALEX AVENUE PUBLIC SCHOOL
STAGE 1
ON-SITE PARKING
SWEPT PATH ASSESSMENT

DRAWING NO. N185450-11-05 SHEET 05 OF 11 ISSUE P2

LEGEND

- BOUNDARY
- FUTURE PERMANENT EASEMENT TO LOT 4
- SCHOOL CAR PARK ACCESS DRIVEWAY
- TEMPORARY EASEMENT TO LOT 4

STAGE 1 (ON-SITE PICK-UP/ SET-DOWN OPTION)
ASSUME COUNCIL CAR PARK NOT COMPLETED ON DAY 1 OF SCHOOL OPERATION

SOURCE:

SURVEY BASE IN GREY (EXTRACTED FROM CIVIL DRAWING)
DRAWING C104.01
REVISION 4
BY NORTHROP
DATED 07.02.2020

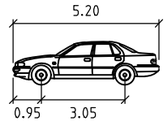
CIVIL DESIGN IN GREEN
DRAWING C104.01
REVISION 4
BY NORTHROP
DATED 07.02.2020

ARCHITECTURAL BASE IN BLUE (DETAIL LIMITED TO SITE BOUNDARY)
DRAWING AA-AR-1100
REVISION 5
BY GROUP GSA
DATED 21.02.2020

SWEPT PATH KEY

- VEHICLE CENTRE LINE
- VEHICLE TYRE PATH
- VEHICLE BODY PATH
- **300**mm CLEARANCE FROM VEHICLE BODY

ASSUMED SPEED **5**km/h



B99 6.3mR

	meters
Width	: 1.94
Track	: 1.77
Lock to Lock Time	: 6.0
Steering Angle	: 34.0

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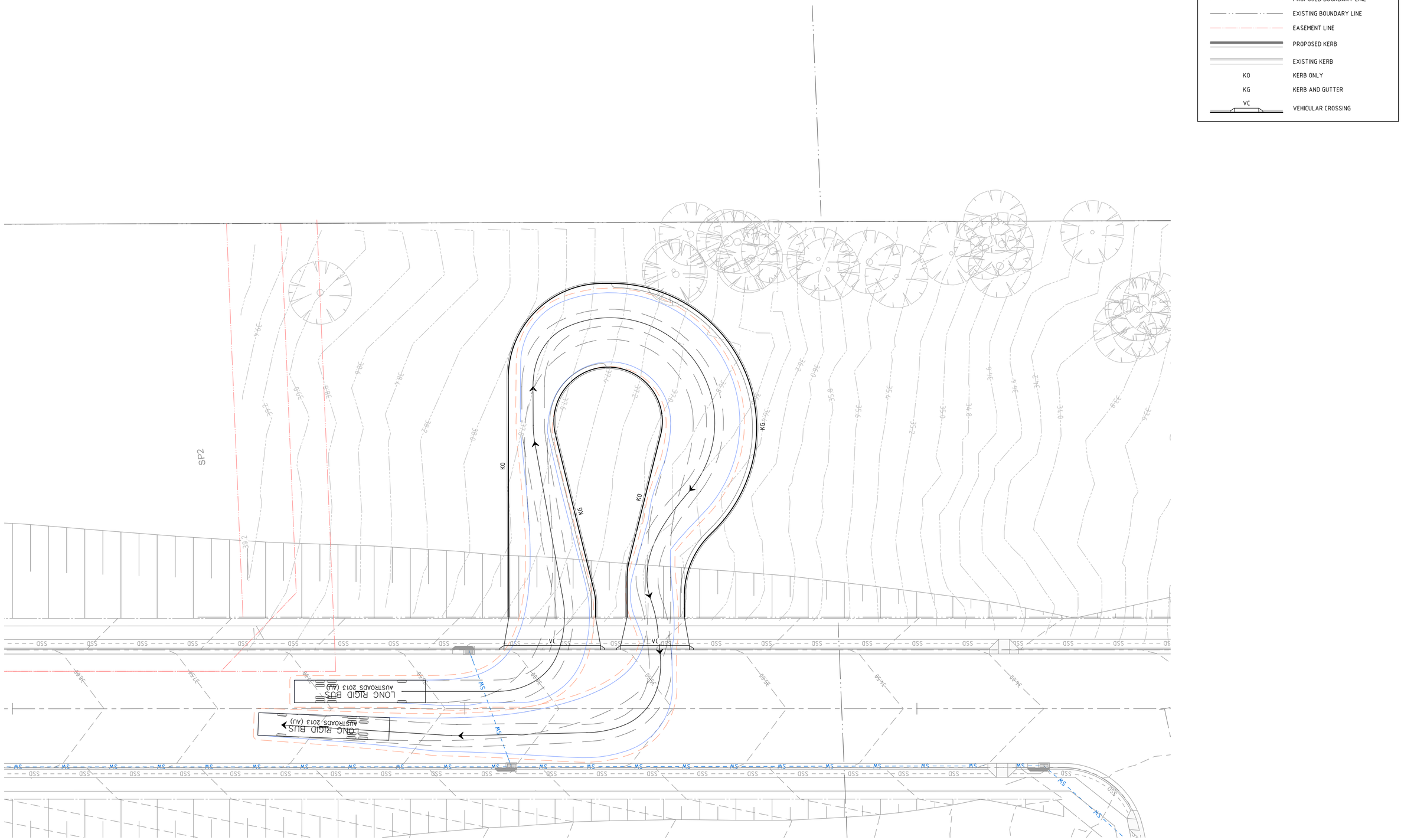
ALEX AVENUE PUBLIC SCHOOL
STAGE 1
ON-SITE PARKING
SWEPT PATH ASSESSMENT

DRAWING NO. N185450-11-06 SHEET 06 OF 11 ISSUE P2

DRAFT

D. PELICAN ROAD TEMPORARY BUS TURNAROUND FACILITY

D



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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
ALEX AVENUE PUBLIC SCHOOL

DRAWING TITLE
CIVIL SKETCH
BUS TURNAROUND BAY SKETCH

JOB NUMBER **182535**
DRAWING NUMBER **SK10.01**
REVISION **1**
DRAWING SHEET SIZE = A1

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Plotted By :JACK GRINSELL
Date :15.02.2018 11:24 AM

LEGEND

- BOUNDARY
- EXTENT OF ROADWORKS FOR STAGE 1 TERM 1
- FUTURE PERMANENT EASEMENT TO LOT 4
- TEMPORARY EASEMENT TO LOT 4

SOURCE:

TOPLACE DRAWING
(DESIGN IN DARK GREY)
(EXISTING ROAD/ DESIGN BY OTHERS IN LIGHT GREY)
PROJECT ACE160400.CIV.CC DRAWING 305
REVISION A4
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DATED 12.04.2019

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DRAWING C104.01
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GTA CONCEPT LINE MARKING AND ROAD DESIGN IN BLACK

SCHOFIELDS ROAD

ROAD

FARMLAND

DRIVE

TEMPORARY EASEMENT

ALEX AVENUE PUBLIC SCHOOL

1.5

3.5

3.0

R8.5

1.5

11.0

18.0

R8.5

1.5

6.0

EASEMENT

LOT 4

LOT 1

PELICAN

N

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APPROVED BY	D. CHOI
DATE ISSUED	03.04.2020

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ALEX AVENUE PUBLIC SCHOOL
STAGE 1

STAGE 1 TERM 1 ROADWORKS

DRAWING NO. N185450-12-03 SHEET 03 OF 07 ISSUE P4

LEGEND

- BOUNDARY
- EXTENT OF ROADWORKS FOR STAGE 1 TERM 1
- FUTURE PERMANENT EASEMENT TO LOT 4
- TEMPORARY EASEMENT TO LOT 4

SOURCE:

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(DESIGN IN DARK GREY)
(EXISTING ROAD/ DESIGN BY OTHERS IN LIGHT GREY)
PROJECT ACE160400.CIV.CC DRAWING 305
REVISION A4
BY AUSTRALIAN CONSULTING ENGINEERS
DATED 12.04.2019

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DRAWING C104.01
REVISION 4
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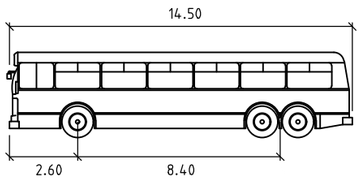
DATED 07.02.2020

GTA CONCEPT LINE MARKING AND ROAD DESIGN IN BLACK

SWEPT PATH KEY

- VEHICLE CENTRE LINE
- VEHICLE TYRE PATH
- VEHICLE BODY PATH
- **500**mm CLEARANCE FROM VEHICLE BODY

ASSUMED SPEED **10**km/h



LONG RIGID BUS

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 46.4

SCHOFIELDS ROAD

ROAD

FARMLAND

DRIVE

TEMPORARY EASEMENT

6.0

ALEX AVENUE PUBLIC SCHOOL

EASEMENT

LOT 4

LOT 1

PELICAN

N

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ALEX AVENUE PUBLIC SCHOOL
STAGE 1

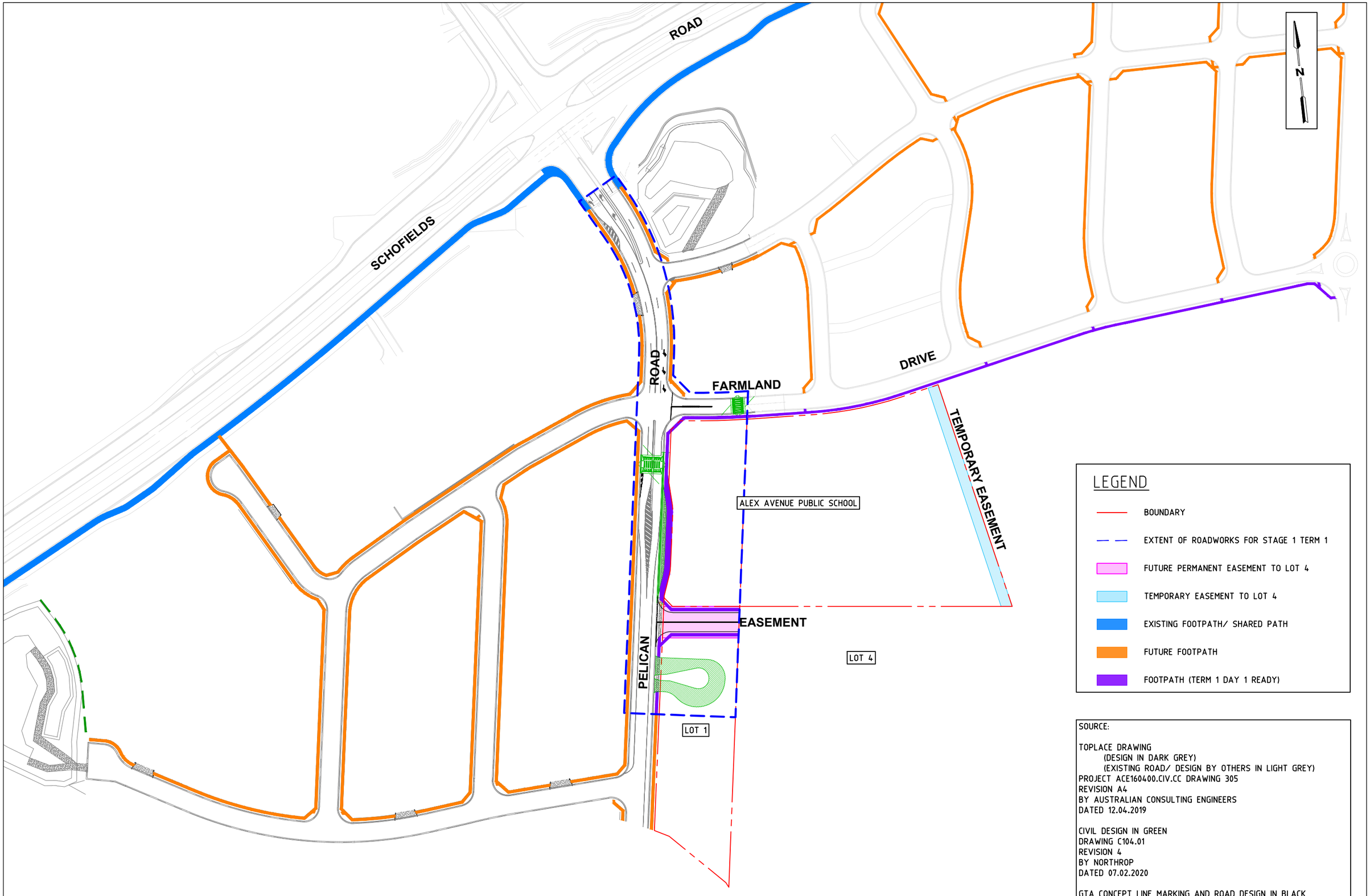
SWEPT PATH ASSESSMENT

DRAWING NO. N185450-12-04 SHEET 04 OF 07 ISSUE P4

DRAFT

E. EXISTING AND FUTURE FOOTPATH NETWORK

E



LEGEND

- BOUNDARY
- EXTENT OF ROADWORKS FOR STAGE 1 TERM 1
- FUTURE PERMANENT EASEMENT TO LOT 4
- TEMPORARY EASEMENT TO LOT 4
- EXISTING FOOTPATH/ SHARED PATH
- FUTURE FOOTPATH
- FOOTPATH (TERM 1 DAY 1 READY)

SOURCE:

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(EXISTING ROAD/ DESIGN BY OTHERS IN LIGHT GREY)
PROJECT ACE160400.CIV.CC DRAWING 305
REVISION A4
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ALEX AVENUE PUBLIC SCHOOL
STAGE 1

FOOTPATHS

DRAWING NO. N185450-12-06 SHEET 06 OF 07 ISSUE P4

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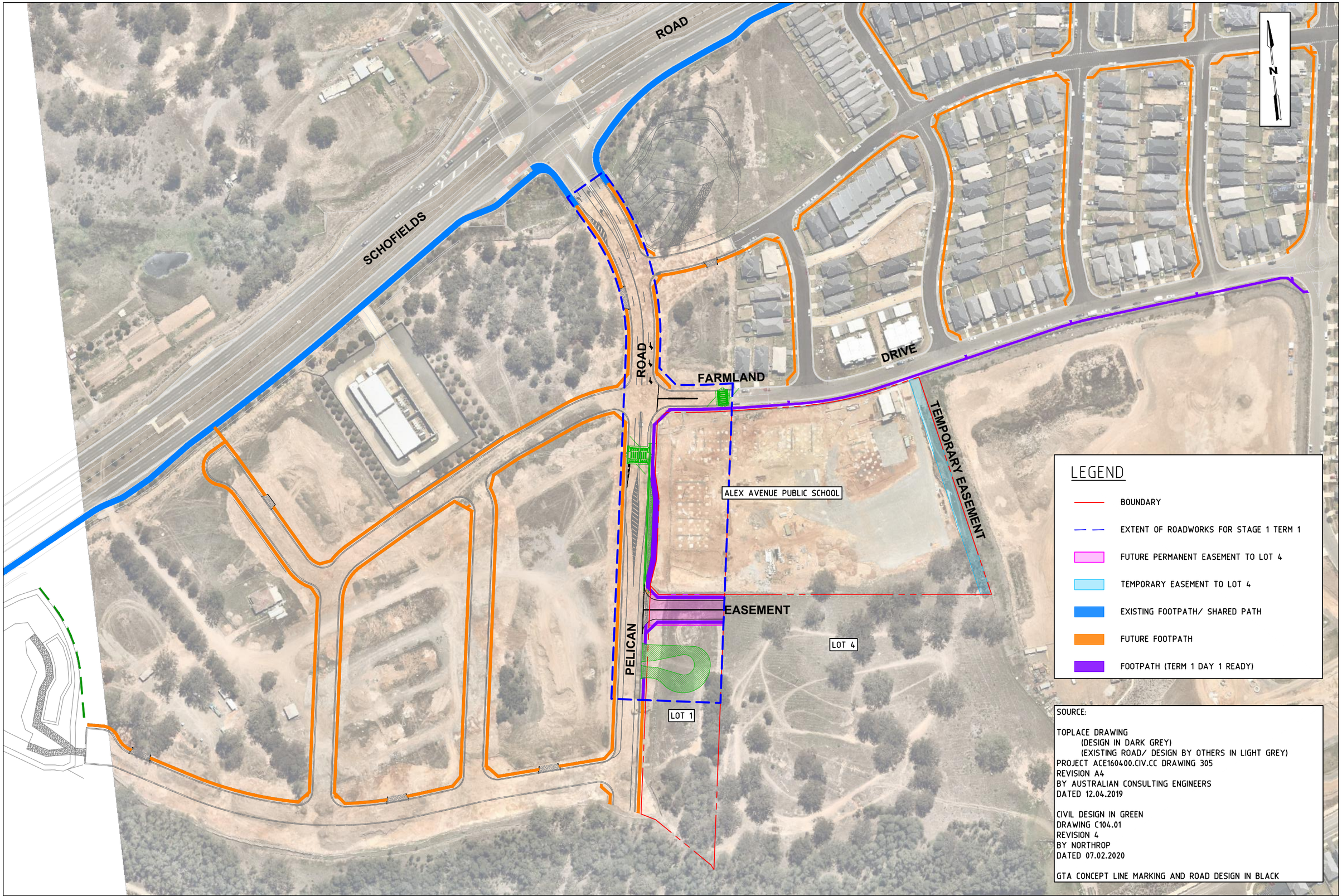

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ALEX AVENUE PUBLIC SCHOOL
STAGE 1

FOOTPATHS

DRAWING NO. N185450-12-07 SHEET 07 OF 07 ISSUE P4

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