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## CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLAN

# **DAPTO LEAGUES CLUB, DAPTO, NSW 2530**

*Part Demolition of Existing Building & Construction Additions and  
Internal Refurbishments*

Prepared for:

Integrated Projects

Date Prepared:

June 2024

Revision:

1.3

Wollongong City Council Application #:

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## Introduction

AusWide Consulting was commissioned by Integrated Projects to prepare a Construction and Demolition Waste Management Plan (WMP) for Council approval.

The proposed development consists of:

Development Details
Part Demolition of Existing Building & Construction Additions and Internal Refurbishments

In the course of preparing this WMP, plans of the development have been examined, and all relevant council requirements and documentation collected and analysed.

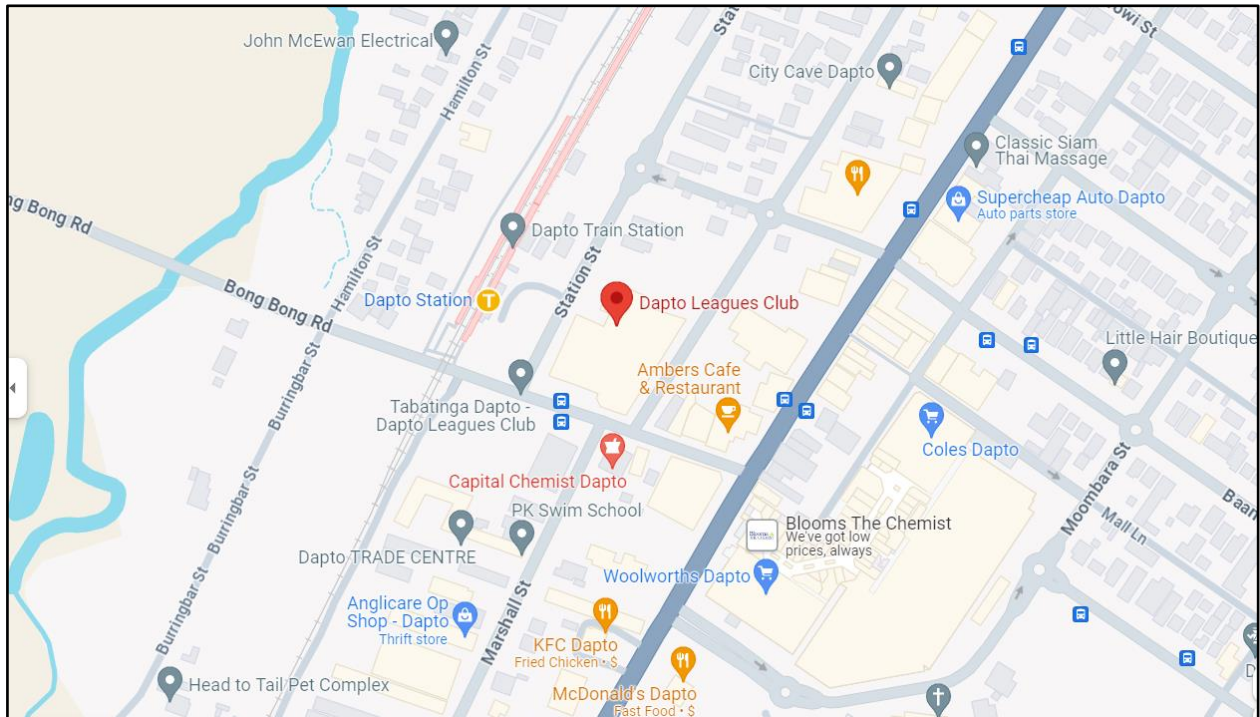
This WMP has been prepared based on the following information:

- Architectural Plans provided by Altis Architecture
- Wollongong Local Environmental Plan 2009
- Wollongong Development Control Plan 2009.

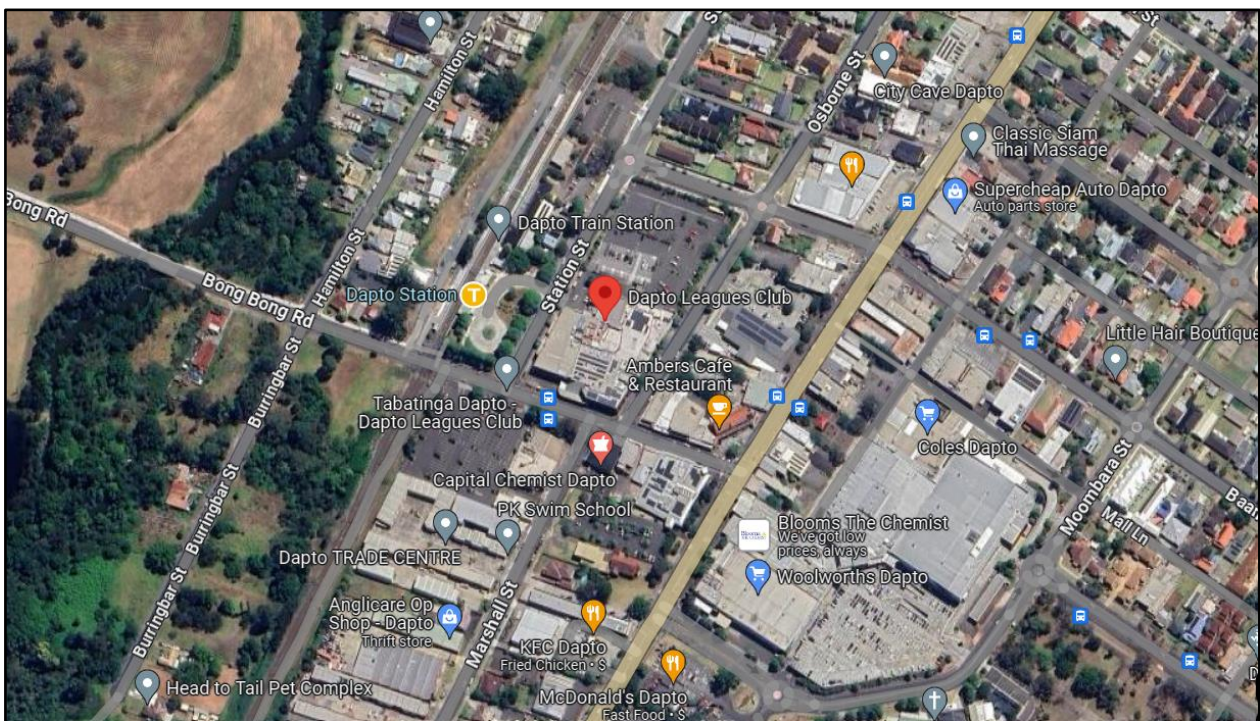
## Background and Existing Conditions

Dapto Leagues Club is located on the corner of Station Street and Bong Bong Road, Dapto. The site is located across the road from Dapto Train Station (train station approximately 80 metres to the west). It is within the E1 – Local Centre zone within the town centre. To the north of the site consists of residential lots within an R3 – Medium Density Residential zone, to the east consists of businesses in an E2 – Commercial Centre zone, and to the south consists of industrial units in an E4 – General Industries zone. The site currently consists of the existing Leagues Club building and its ancillary facilities.

**Figure 1** on page 6 provides an overview of the area, and its surrounding land uses whilst **Figure 2** provides an aerial view of the immediate area surrounding the subject site. **Figure 3** on page 7 provides a street view of the subject site while **Figure 4** shows the extent of the demolition and construction works at the subject site.



**Figure 1: Location of the Subject Site (© Google 2023)**



**Figure 2: Aerial View of the Subject Site (© Google 2023)**





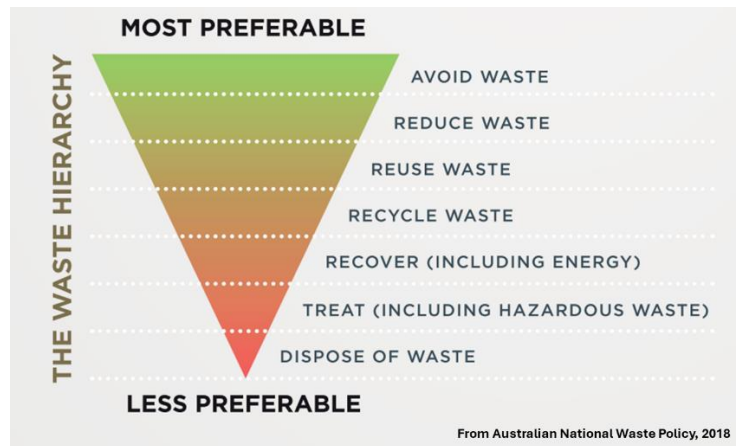
**Figure 3: Street View of the Subject Site (© Google 2023)**



**Figure 4: Extent of Proposed Works, Dapto Leagues Club (Altus Architecture)**

## Waste Management Principles

When dealing with waste, the following hierarchy has been adopted from the Australian National Waste Policy, prioritising from top to bottom:



### Avoid/Reduce

Particularly during the construction phase, avoidance of waste will be achieved through:

- Selecting design options with the most efficient use of materials; and
- Selecting materials with minimal wastage, such as prefabricated materials.

### Reuse

Some of the materials encountered in the demolition and construction stages can be recovered and reused both on-site and off-site. This will be practised wherever possible. Reusable materials shall be appropriately stored to avoid damage from weather or machinery.

### Recycle

Similarly, many materials from the demolition and construction stages will be recyclable. These materials will be identified prior to demolition, and a system incorporated to efficiently separate reusable materials, recyclable materials, and disposable materials. Recyclable materials shall be appropriately stored to avoid damage from weather or machinery. Details and receipts verifying the recycling of these materials shall be kept present on site at all times.

### Recover/Treat

Processing of waste to recover resources, including energy, may be an option, with many waste companies processing demolition and construction waste before disposal. Some waste may also be treated to reduce its environmental impact before disposal.

### Disposal

The waste disposal contractor chosen for the job will comply with Council's DCP. Details and receipts verifying the disposal of these materials shall be kept present on site at all times.

## Handling

When handling waste on-site, the system (including bin placement, volumes, and access) shall be designed with the following factors in mind:

- Safety (highest priority);
- Ease of use; and
- Aesthetics.

## *Stockpiling*

Waste sorting areas on-site during demolition and construction shall be adequately maintained. The material (demolition material, excavation material, construction material and waste) stockpiling area shall always remain within the site boundary and relocate during different demolition and construction stages as necessary. The waste area shall be largely located at the front of the site to provide access for waste collection vehicles via the site's entrance on Station Street. This is to maintain easy access and removal of waste. **Figure 5** shows an indicative location of the waste area during initial demolition stages. The stockpiling area shall not infringe on access to the site. The building site perimeter will have site fencing with shade cloth to reduce visibility of waste from the street.

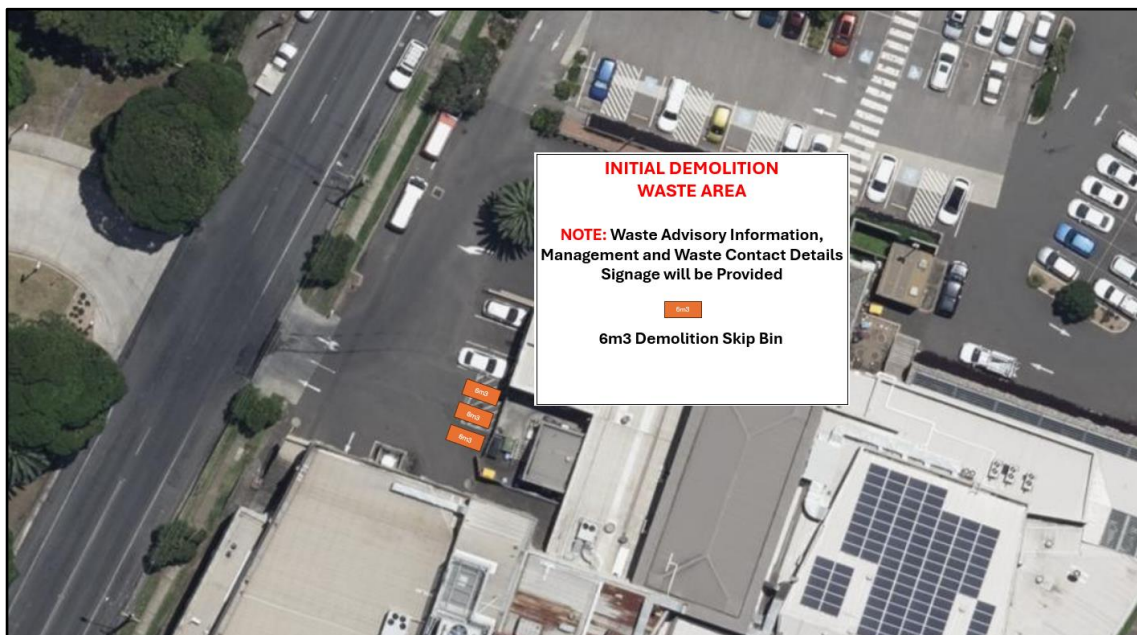


Figure 5: Initial Demolition Waste Area; 6m<sup>3</sup> Skin Bins



## Demolition & Construction Stage

The proposal involves the part demolition of the existing building on site and the construction of additions and internal refurbishments.

### *Demolition Works*

It should be noted that the demolition stage has the greatest potential for waste minimisation.

The contractor should consider whether it is possible to re-use existing buildings, or parts thereof, for the proposed use. With careful onsite sorting and storage and by staging work programs it is possible to re-use many materials, either on-site or off-site.

Councils are typically seeking to move from the attitude of straight demolition to a process of selected deconstruction, i.e., total reuse and recycling both off-site and on-site. This could require a number of colour-coded or clearly labelled bins onsite (rather than one size fits all).

**Figure 6** on page 11 shows source separation signage that will be installed in the waste areas during demolition and construction stages.



Figure 6: Construction and Demolition Recycling Signage

Site contractors should demonstrate project management which seeks to:

- Re-use excavated material on-site and dispose of any excess to an approved site;
- Re-use green waste mulch in landscaping either on-site or off-site;
- Re-use bricks, tiles and concrete on-site as appropriate, or recycle off-site;
- Re-use plasterboard in landscaping on-site, or return to supplier for recycling;
- Re-use framing timber on-site or recycle elsewhere;
- Recycle windows, doors and joinery off-site;
- Recycle plumbing, fittings and metal elements off-site;
- Dispose of all asbestos, hazardous and/or intractable wastes in accordance with Workcover Authority and EPA requirements;
- Identify locations of on-site storage facilities for material to be reused on-site, or separated for recycling off-site; and
- Identify destination and transportation routes of all materials to be either recycled or disposed of off-site.

All appropriately licenced and experienced demolition contractors will follow the requirements of AS2601-2001 – *Demolition of Structures*. Contractors will have developed work plans for their demolition activities including procedures for identification of any hazardous materials, demolition methods, and the precautions to be employed to minimise any dust nuisance and the disposal methods for hazardous materials. These documents should preferably be contained in an audited quality control system, submitted with the tender documents, and the quality of the documentation should be key determining factor in assessing demolition contractors.



## *Construction Works*

The following measures shall be considered during the construction stage in order to save resources and minimise waste:

- Purchasing Policy – i.e., ordering the right quantities of materials and prefabrication of materials where possible;
- Reusing formwork;
- Minimising site disturbance, limiting unnecessary excavation;
- Careful source separation of off-cuts to facilitate re-use, resale, or efficient recycling; and
- Co-ordination/sequencing of various trades.

## **Wastage Types and Handling**

Waste volumes produced by demolition and construction stages are estimated in the following **Tables 1 & 2**.

Where possible, materials shall be reused or recycled, with disposal being the last resort. The destination of all recycled and disposed material shall be announced upon the selecting the waste collectors and recyclers.

The arrangements for all reused, recycled and disposed waste shall be tracked and recorded, and all receipts shall be held on-site.

It is noted that the quantities of materials detailed in this section are estimates only, based on current industry standards and quantity analysis, and may vary due to the prevailing nature of construction constraints, weather conditions, and any other unforeseeable activities which are beyond the control of the developer, including but not being limited to theft, accidents, and other acts of misadventure. Notwithstanding any of the above, the developer will provide Council with all details in relation to any major variations in this regard.

Table 1: Estimated Volumes of Demolition Waste and Recycling Options

Materials on Site	Waste Estimate - Volume (m <sup>3</sup> ) or Weight (T)	On-Site Reuse	Off-Site Recycling	Off-Site Disposal (Accordance with NSW EPA)
Asphalt	50 tonnes	No	Yes See Table 3	See Table 3
Bricks	200 tonnes	No	Yes See Table 3	See Table 3
Ceramic Tiles	3 tonnes	No	Yes See Table 3	See Table 3
Timber	25 tonnes	No	Yes See Table 3	See Table 3
Concrete	480 tonnes	No	Yes See Table 3	See Table 3
Metals	175 tonnes	No	Yes See Table 3	See Table 3
Excavation Material	746 tonnes	No	Yes See Table 3	See Table 3
Green Waste	<5 tonnes	No	Yes See Table 3	See Table 3
Glass (Windows)	15 tonnes	No	Yes See Table 3	See Table 3
Plasterboard	6 tonnes	No	Yes See Table 3	See Table 3
Other	30 tonnes	No	No	See Table 3

## Construction Phase

If sound construction management practices are in place, then waste volumes should be minimised with the majority of this waste being recyclable.

Table 2. Estimated Volumes of Construction Waste and Recycling Options

Materials on Site	Waste Estimate- Volume (m <sup>3</sup> ) or Weight (T)	On-Site Reuse	Off-Site Recycling
Asphalt	3 tonnes	No	Yes
Bricks	8 tonnes	Yes - Up to 20% as splints	Yes
Ceramic Tiles	3 tonnes	Minimal	Yes
Timber	2 tonnes	Yes – Up to 20% as offcuts, bracing, etc	Yes
Concrete	5 tonnes	No	Yes
Metals	3 tonnes	No	Yes
Plaster Board	1 tonne	No	Yes
Packaging Plastics	<1 tonne	No	Yes
Packaging Paper/Cardboard	1 tonne	No	Yes
Other	<1 tonne	No	No

**Table 3** (Page 16) details waste facilities within 20 kilometres of the site that accept various types of construction and demolition waste that may be generated from the worksite. These recycling facilities should be able to recover 80 to 90% of the materials from mixed demolition and construction waste.

Table 3: Example of Construction and Demolition Waste Disposal Facilities within 20km of the site

Facility Name	Facility Address	Materials Accepted
Bingo Recycling Centre	50 Wyllie Road, Kembla Grange, NSW	Aluminium, Asphalt & Bitumen, Bricks, Ceramics, Concrete, Copper, Corrugated Iron, Electrical Cables, Garden Cuttings, Glass Sheets, Iron & Steel, MDF, Masonite & Villaboard, Other Metals, Pallets – Wood, Particleboard, Plasterboard, Sand, Solid Fill – Soil, Timber - Untreated
Benedict Recycling	Five Islands Rd, Unanderra, NSW	Aluminium, Asphalt & Bitumen, Bricks, Cardboard, Ceramics, Concrete, Containers & Packaging, Copper, Corrugated Iron, Cylinders, Electrical Cables, Fibro – Non Asbestos, Foundry Sand, Garden Cutting, Glass Sheets, Iron & Steel, Lead, Mattresses, Office Furniture, Pallets – Plastic & Wood, Paper, Particleboard, Plasterboard, Plastic Straps, Sand, Shop Fittings, Soft Plastics, Solid Fill – Soil, Timber – Untreated, Tyres
SCE Recycling	Lot 1 Shellharbour Road, Warrawong, NSW	Asphalt & Bitumen, Bricks, Ceramics, Concrete, Sand

# APPENDICES

## APPENDIX A – Architectural Plans







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IMPERVIOUS AREA CALCULATION	
TOTAL SITE AREA	4.2158m <sup>2</sup>
TOTAL IMPERVIOUS AREA	3.0938m <sup>2</sup>
IMPERVIOUS %	73.4%

NOTE 1: FOR MORE COMPLETE LIST OF SET BACK DIMENSIONS, REFER TO WATER & SEWER DEPT. TO CIVIL DRAWINGS FOR STORMWATER INFRASTRUCTURE.

**KEY**

	EXTENT OF EXISTING CLUS. NO WORKING
	EXT. BUILT ON NEW BUILDING FOOTPRINT
	EXTENT OF EXISTING CLUS. TO BE REMOVED
	NEWLY EXTENDED BUILDING FOOTPRINT
	EXTENT OF LANDSCAPING, TREES TO BE MAINTAINED OR PLANTED FOR ADDITIONAL GLAZING IN NEW BUILDING FOOTPRINTS.



**DAPTO LEAGUES CLUB NORTH  
WING REFURBISHMENT**

**980-767-8222**

**ALTIS**  
ARCHITECTURE

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suite 123:28:82 sigma total payload now 2006 august10

### SITE PLAN



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DATE	DESCRIPTION
13/07/2021	SELECT FOR INFORMATION
20/07/2021	SELECT FOR INFORMATION
27/07/2021	SELECT FOR INFORMATION
03/08/2021	SELECT FOR INFORMATION
10/08/2021	SELECT FOR INFORMATION
17/08/2021	SELECT FOR INFORMATION
24/08/2021	SELECT FOR INFORMATION
31/08/2021	SELECT FOR INFORMATION

DAFTO LEAGUES CLUB GOLF FLOOR AREA CALCULATIONS		
	PHOTOCOPIED GFA	
	EXISTING GFA	
EQUIPMENT PLAN	176 sq'yd	347 sq'yd
CLUBHOUSE + COFFEE PLAN	3000 sq'yd	5413 sq'yd
LOCKER + CLUBH.	2556 sq'yd	5173 sq'yd
LEVEL 2 + CLUBH.	10 sq'	0 sq'
LEVEL 3 + CLUBH.	6116 sq'	6050 sq'
<b>TOTAL</b>	<b>6116 sq'</b>	<b>5113 sq'</b>
<b>FSE CALCULATION</b>		
TOTAL FSE AREA		14,710 sq'
CLUBHOUSE + COFFEE AREA		6054 sq'
<b>TOTAL FSE</b>		1 : 1.371

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IMPERVIOUS AREA CALCULATION	
TOTAL SITE AREA	14,275sq'
TOTAL IMPERVIOUS AREA	13,013sq'
IMPERVIOUS %	90.9%

NOTE 1: FOR MORE COMPREHENSIVE LIST OF SET BACK DRAWINGS, REFER TO DANCIC & JALICZ.  
NOTE 2: REFER TO CIVIL DRAWINGS FOR STOPWATER, INLET AND TIE-INS.

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

**KEY**

	EXTENT OF EXISTING CLUBS, NO WORKS
	EXISTENCE OF NEW BUILDING MATERIAL
	EXTENT OF EXISTING CLUBS TO BE REMOVED
	NEW BUILDING MATERIAL
	EXTENT OF LANDSCAPING, TREES TO BE LANTERN
	GLAZING IN NEW BUILDING MATERIALS

DAPTO LEAGUES CLUB NORTH  
WING REFURBISHMENT

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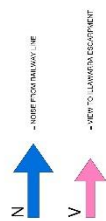
## SITE PLAN



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DAPTO LEAGUES CLUB NORTH  
 WING REFURBISHMENT

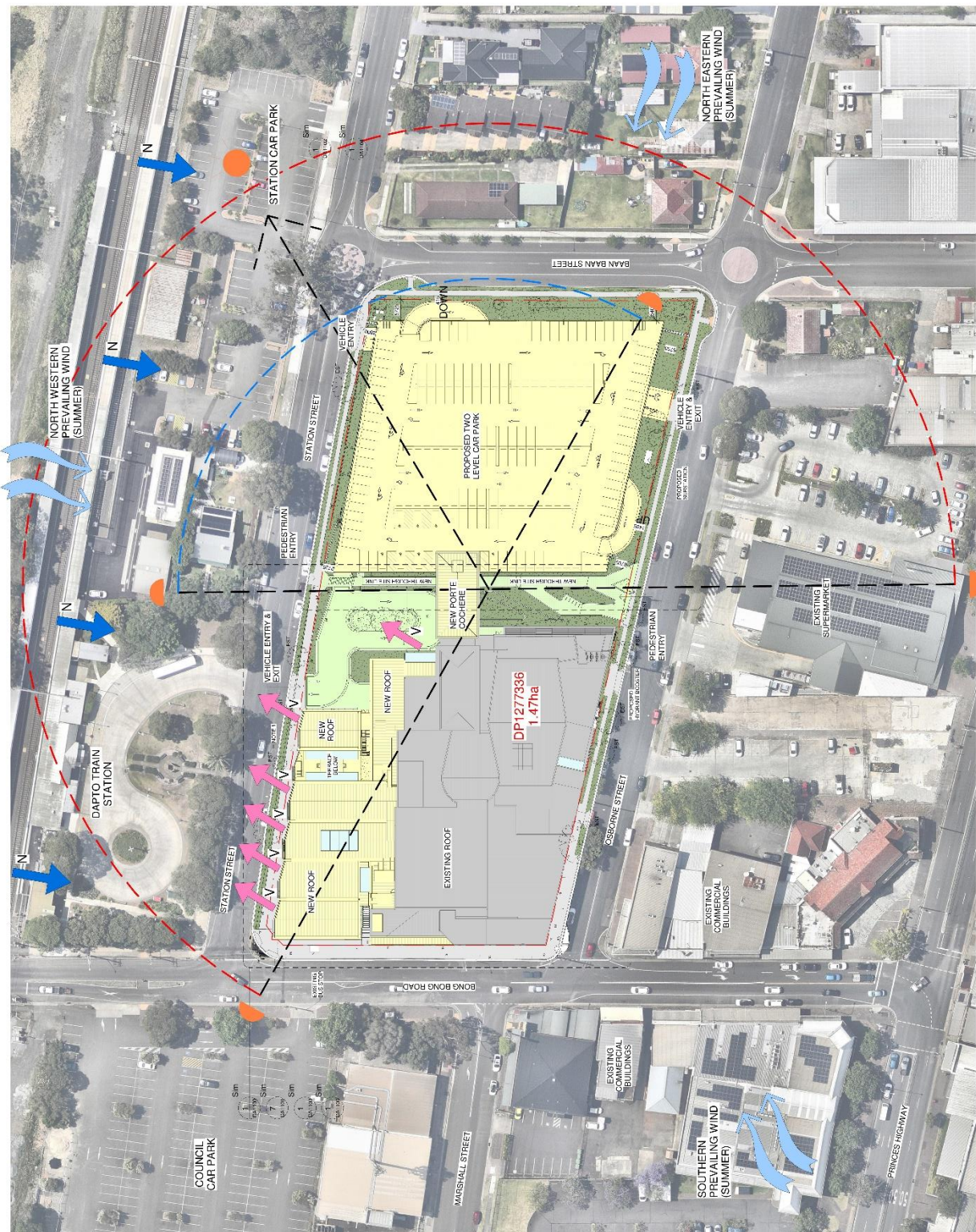
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## SITE ANALYSIS

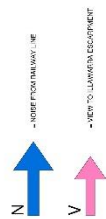


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	EXTENT OF EXISTING CLUD TO BE REDUCED
	NEW PROPOSED DEVELOPMENT
	EXTENT OF LANDSCAPING, TREES TO LANDSCAPE
	EXTENT OF LANDSCAPING, TREES TO LANDSCAPE



DAPTO LEAGUES CLUB NORTH  
 WING REFURBISHMENT

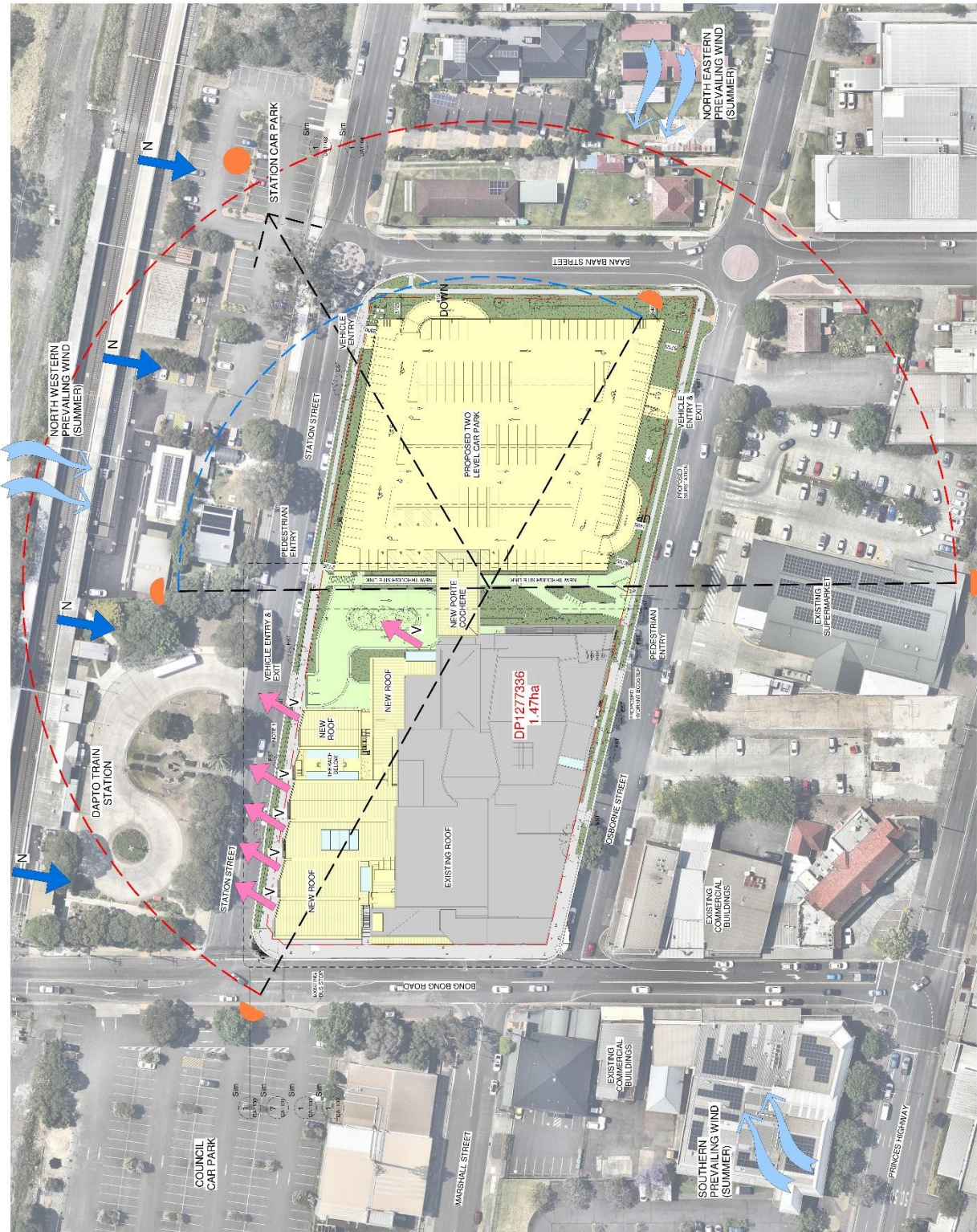
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## SITE ANALYSIS



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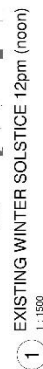
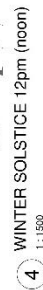












**KEY**

	EXTENT OF EXISTING CLUD, NO WORKS
	EXT. AREA > 100 MILLION SQUARE
	EXTENT OF EXISTING CLUD TO BE RENOVATED
	NEW, EXTENDED HABITAT/SCAPE
	EXTENT OF LANDSCAPING, REF. TO LANDSCAPE ARCHITECT'S DRAWINGS FOR ADDITIONAL INFO
	GLAZING IN NEW WALLS, WINDOWS



FIGURE 1  
DAPTO LEAGUES CLUB NORTH  
WING REFURBISHMENT

**ALTIS**  
ARCHITECTURE

p 612 2364 9002 f 612 23671 7390 loose deck crane bay whet  
sailo 123 / 20 - 32 prima road pyramid near 2009 arabia

SHADOW DIAGRAM - WINTER SOLSTICE



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**KEY**

	EXTENT OF EXISTING CLUB, NO WORKS
	WE'VE GOT 12-15 MILLION DOLLARS
	EXTENT OF EXISTING CLUB TO BE RENOVATED
	NEW 400,000-SQ-FT HANGAR
	EXTENT OF LANDSCAPING, REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR ADDITIONAL NOTES
	GLAZING IN NEW BUILDINGS WORKS



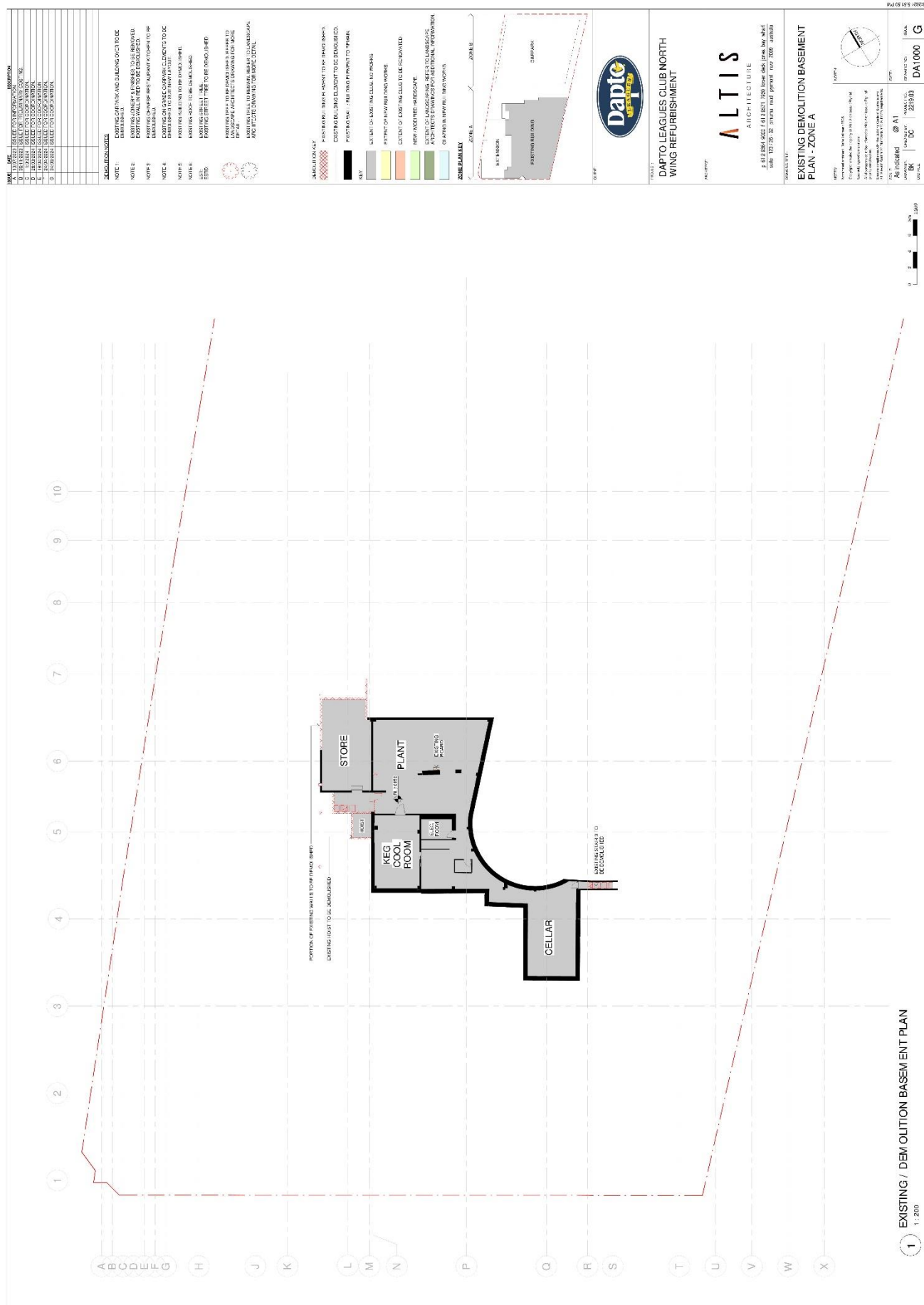
FIGURE 2  
DAPTO LEAGUES CLUB NORTH  
WING REFURBISHMENT

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ARCHITECTURE

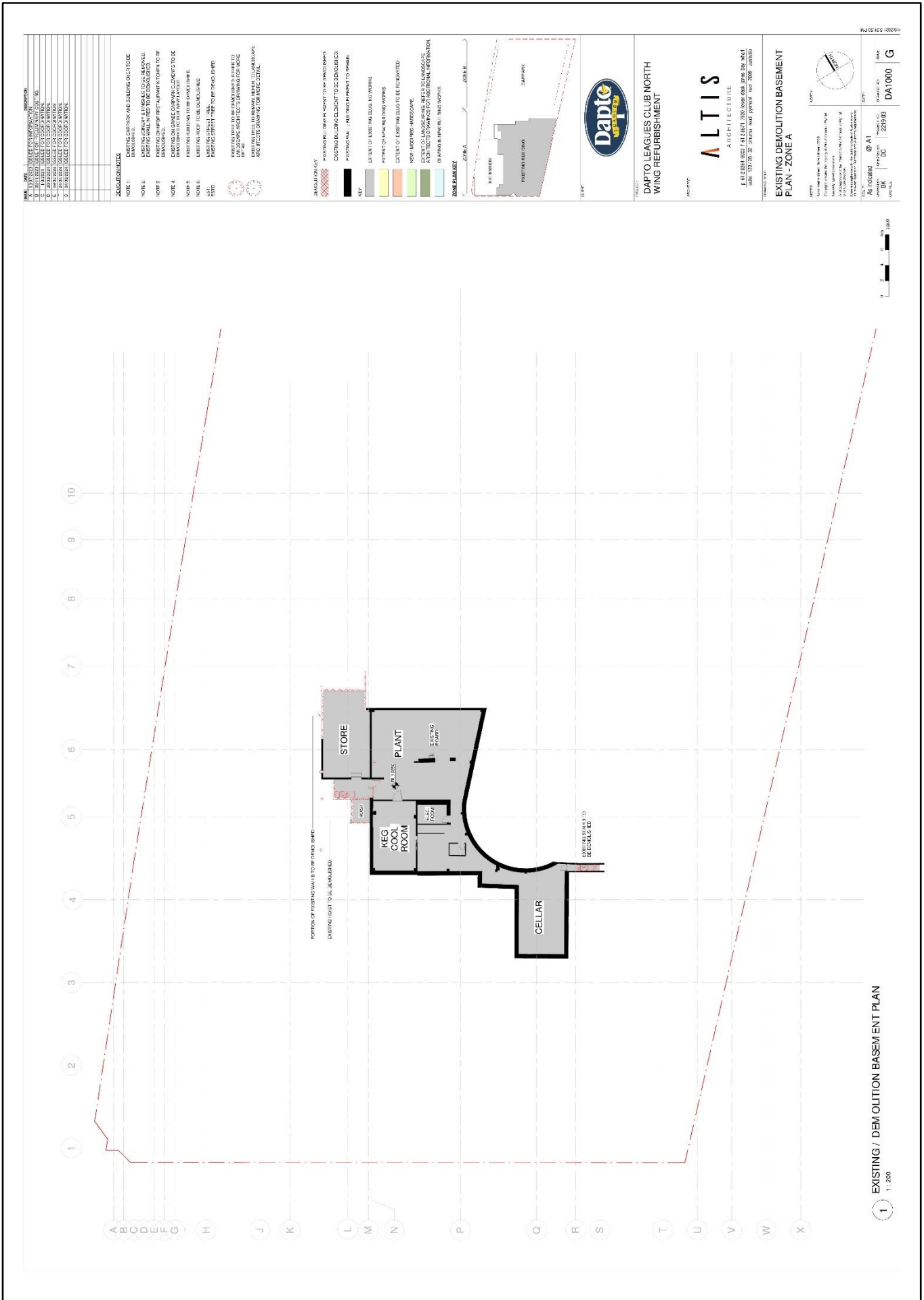
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SHADOW DIAGRAM - WINTER SOLSTICE

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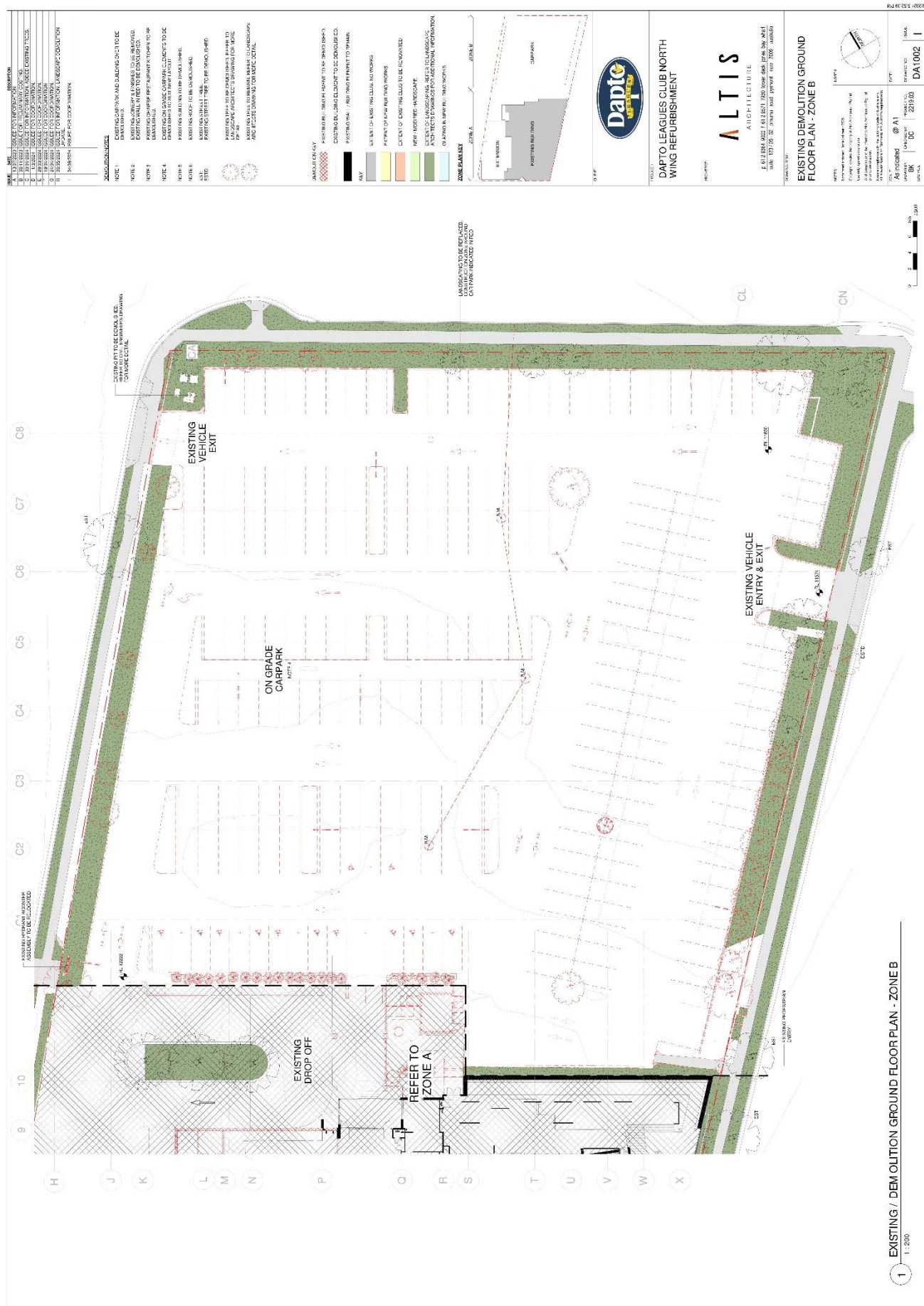


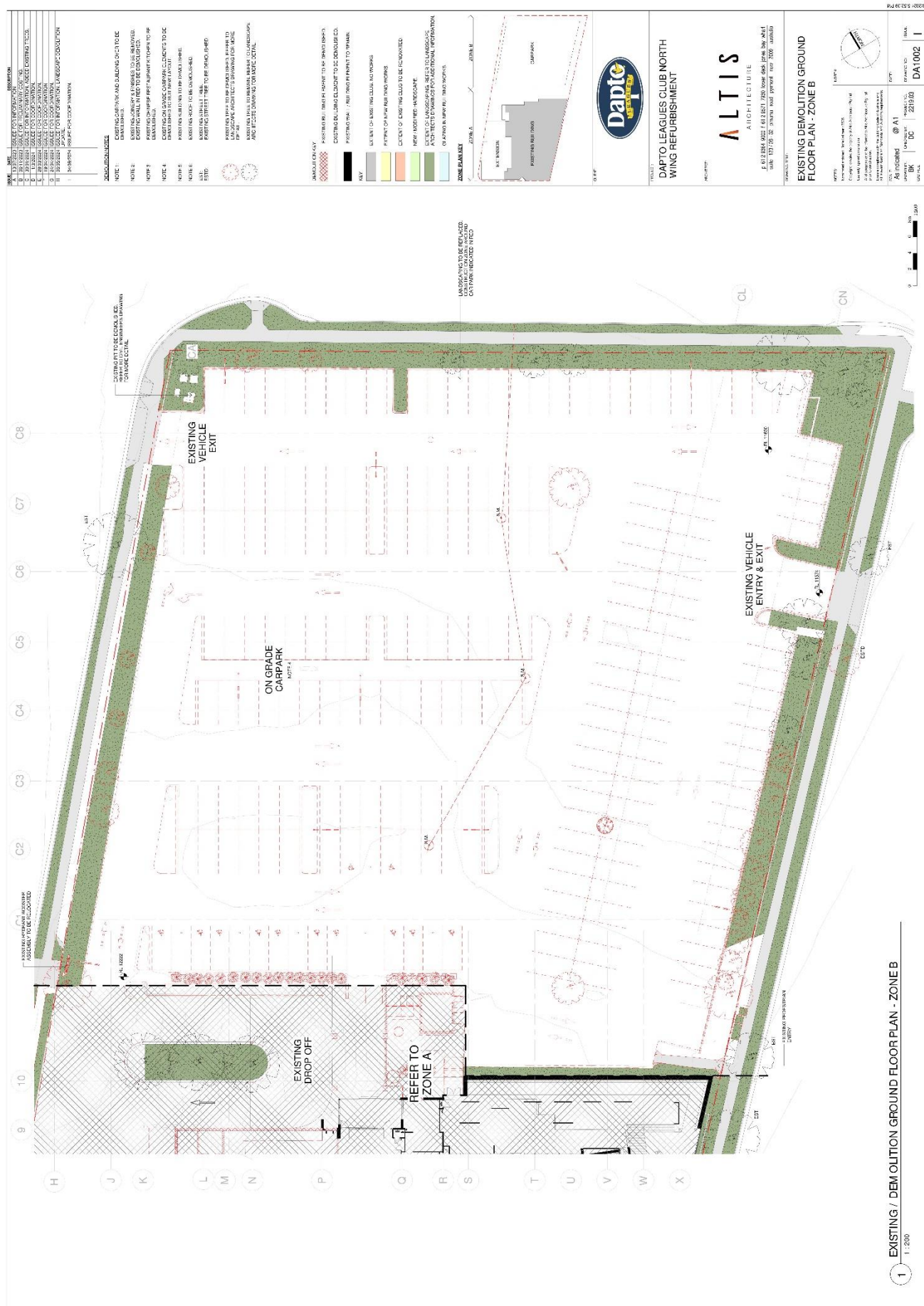




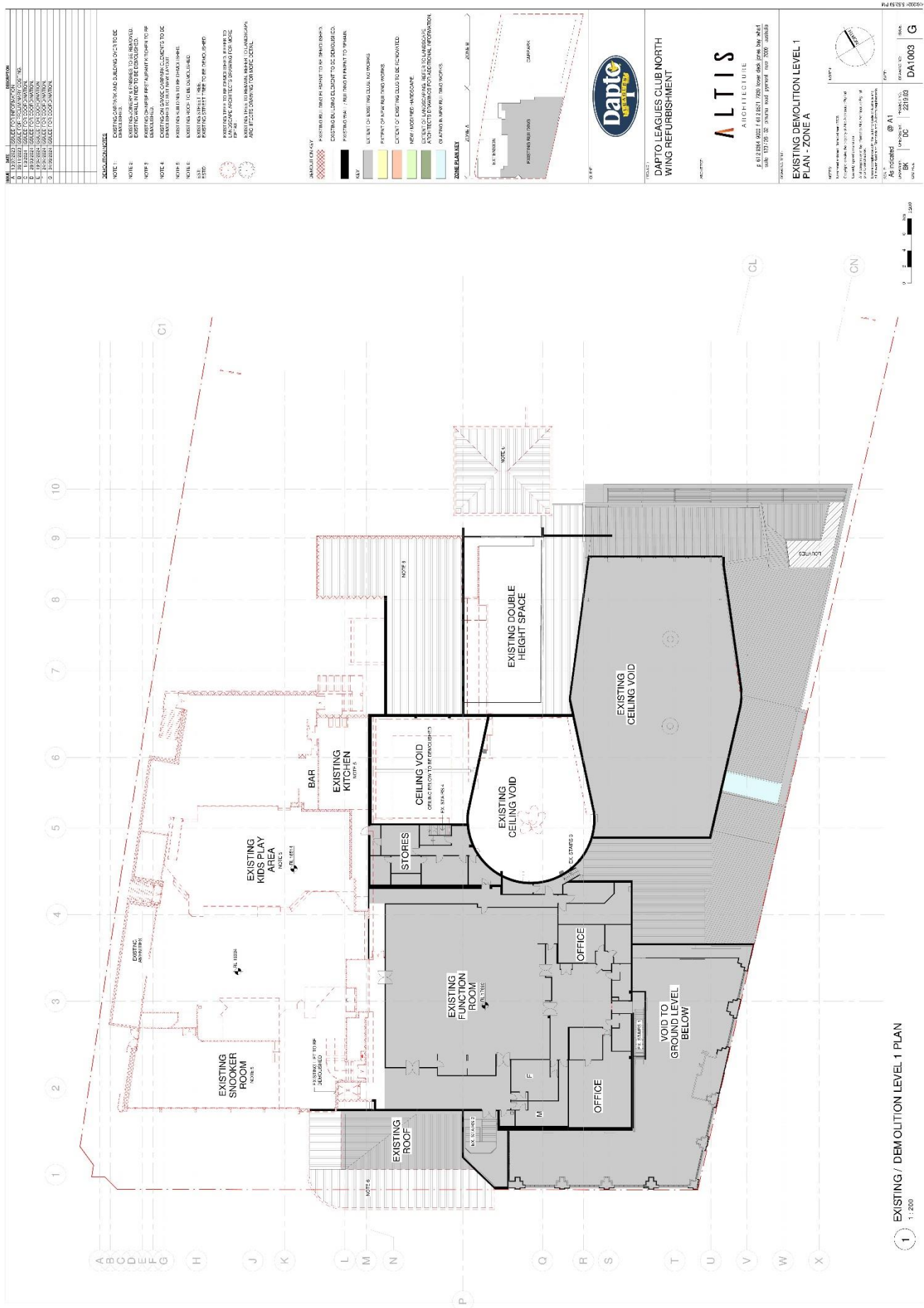




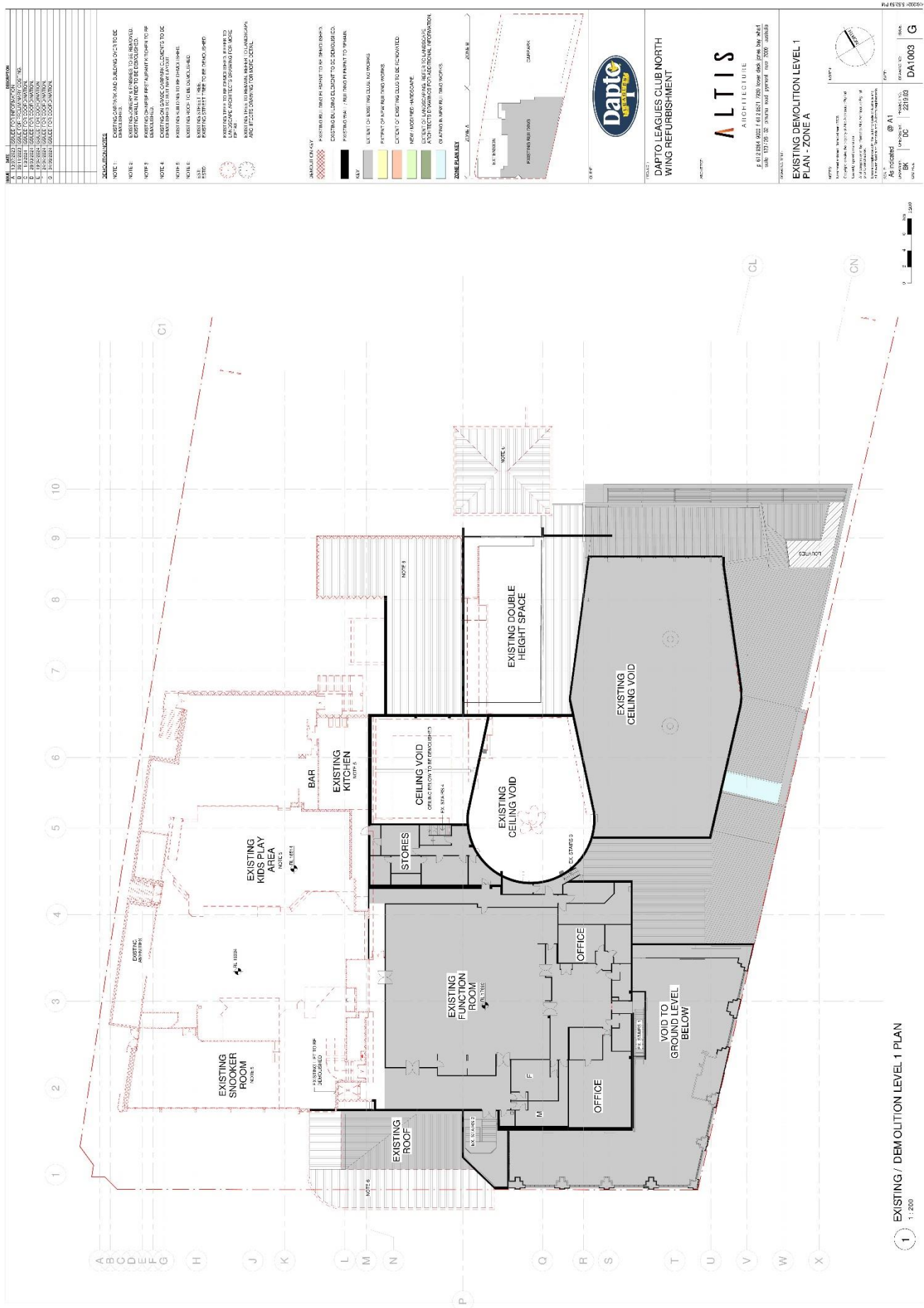


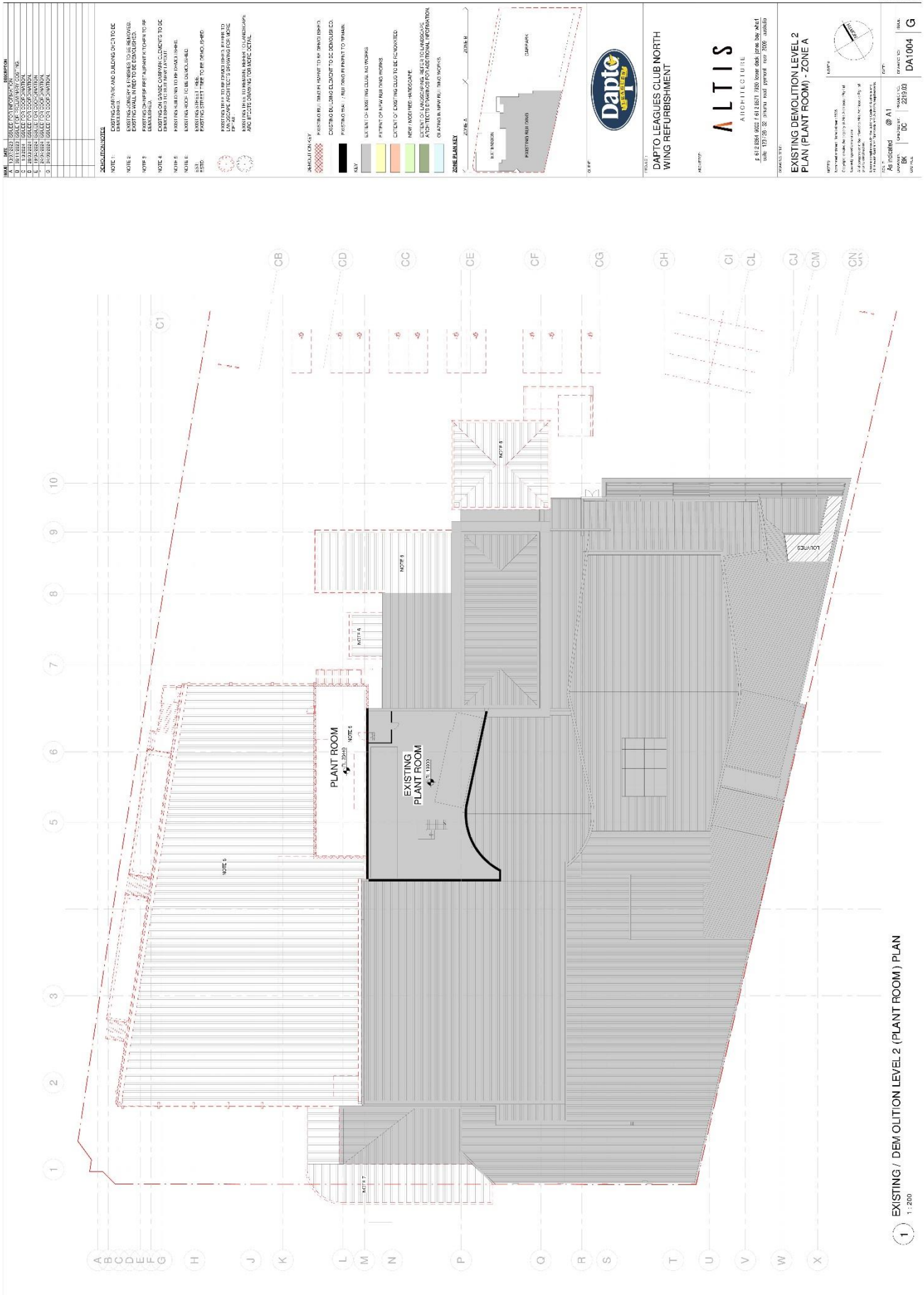


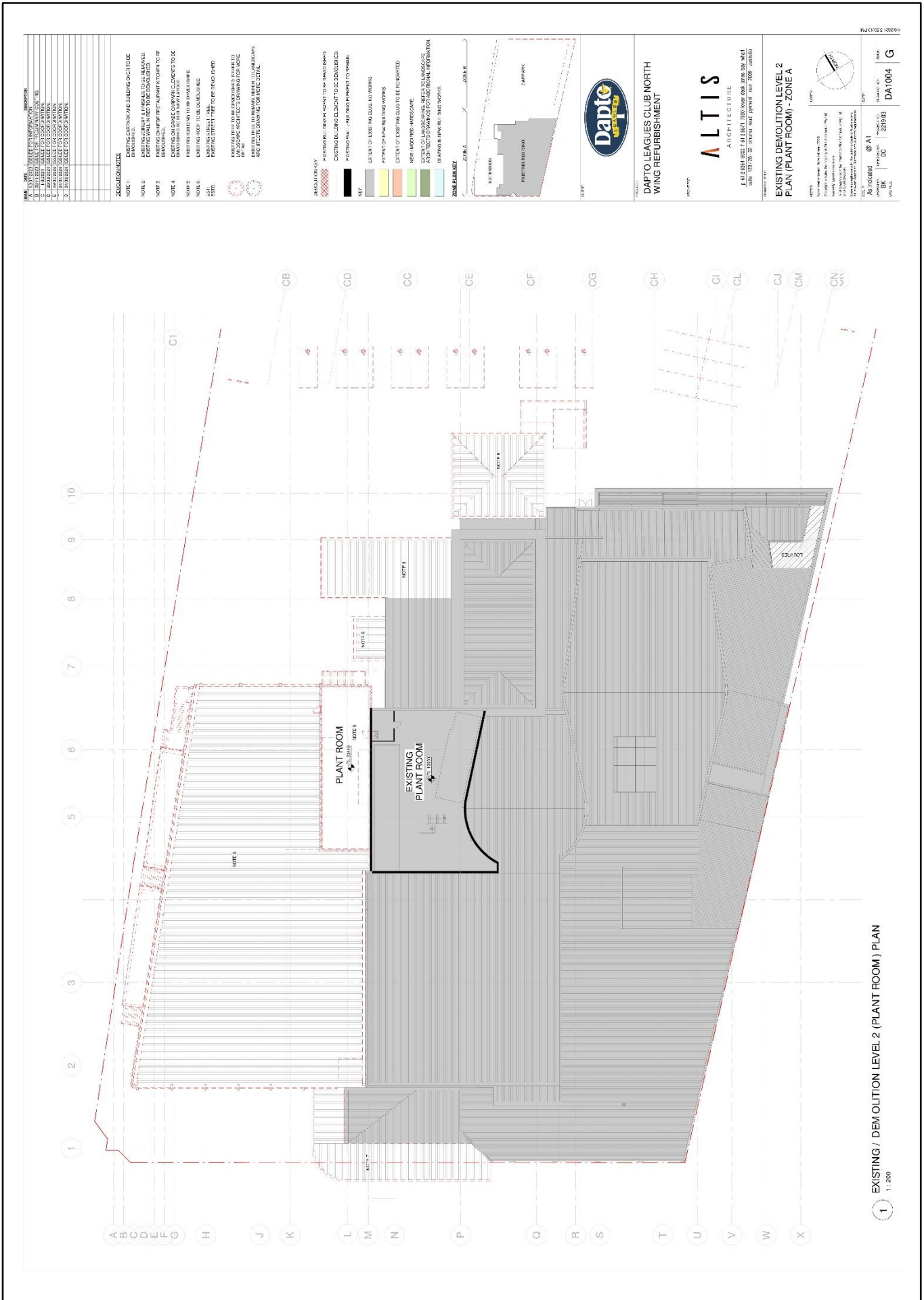






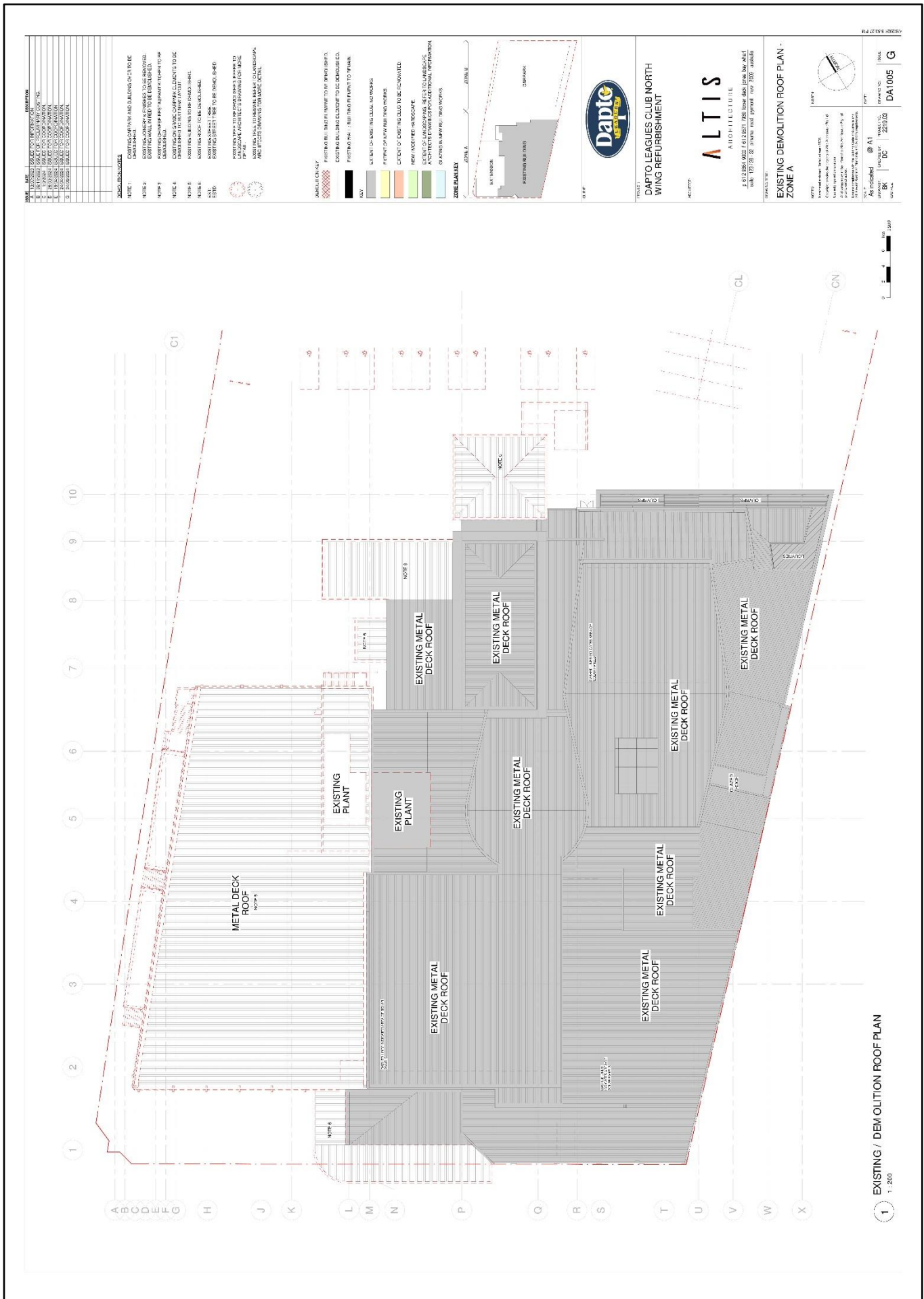




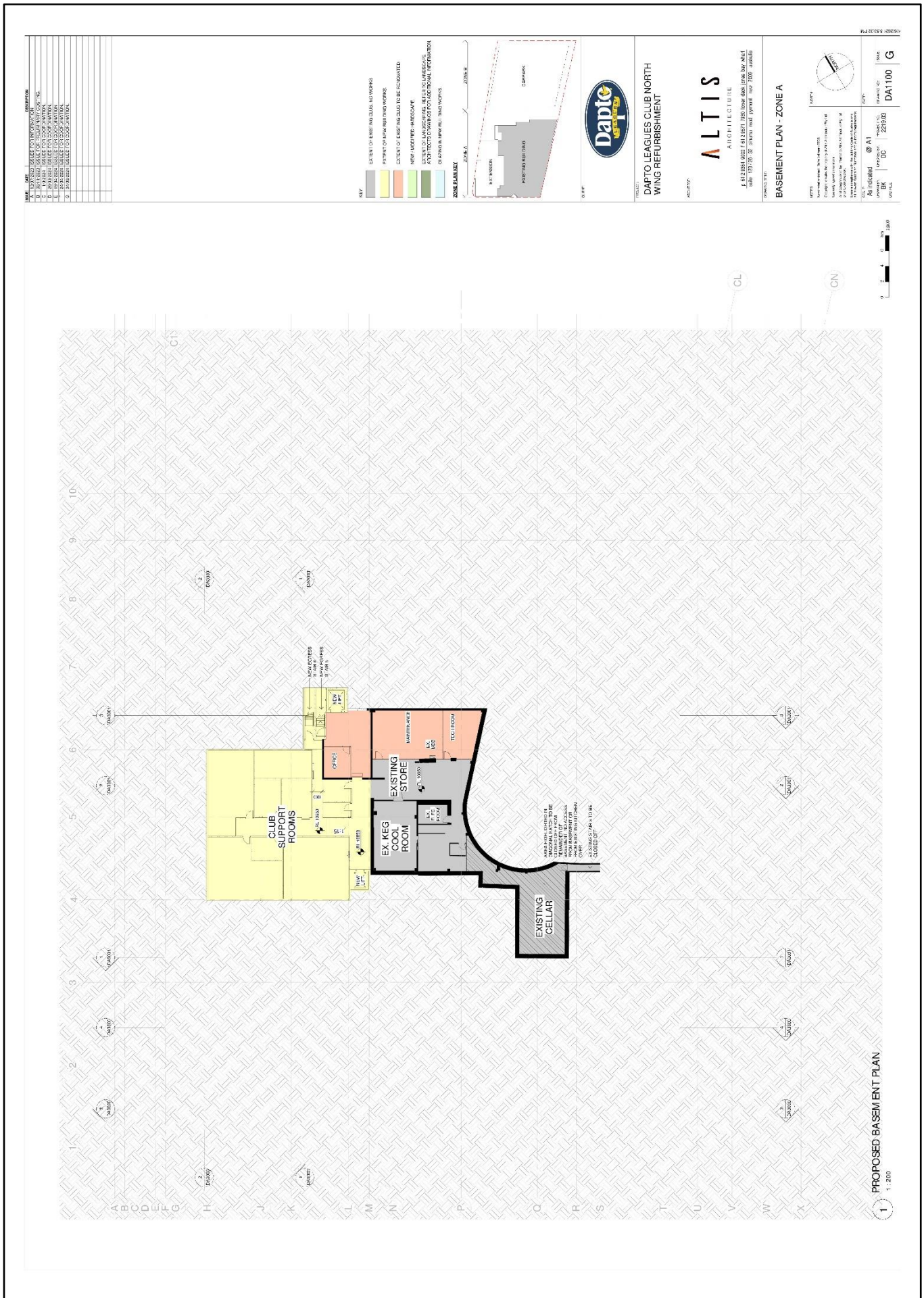




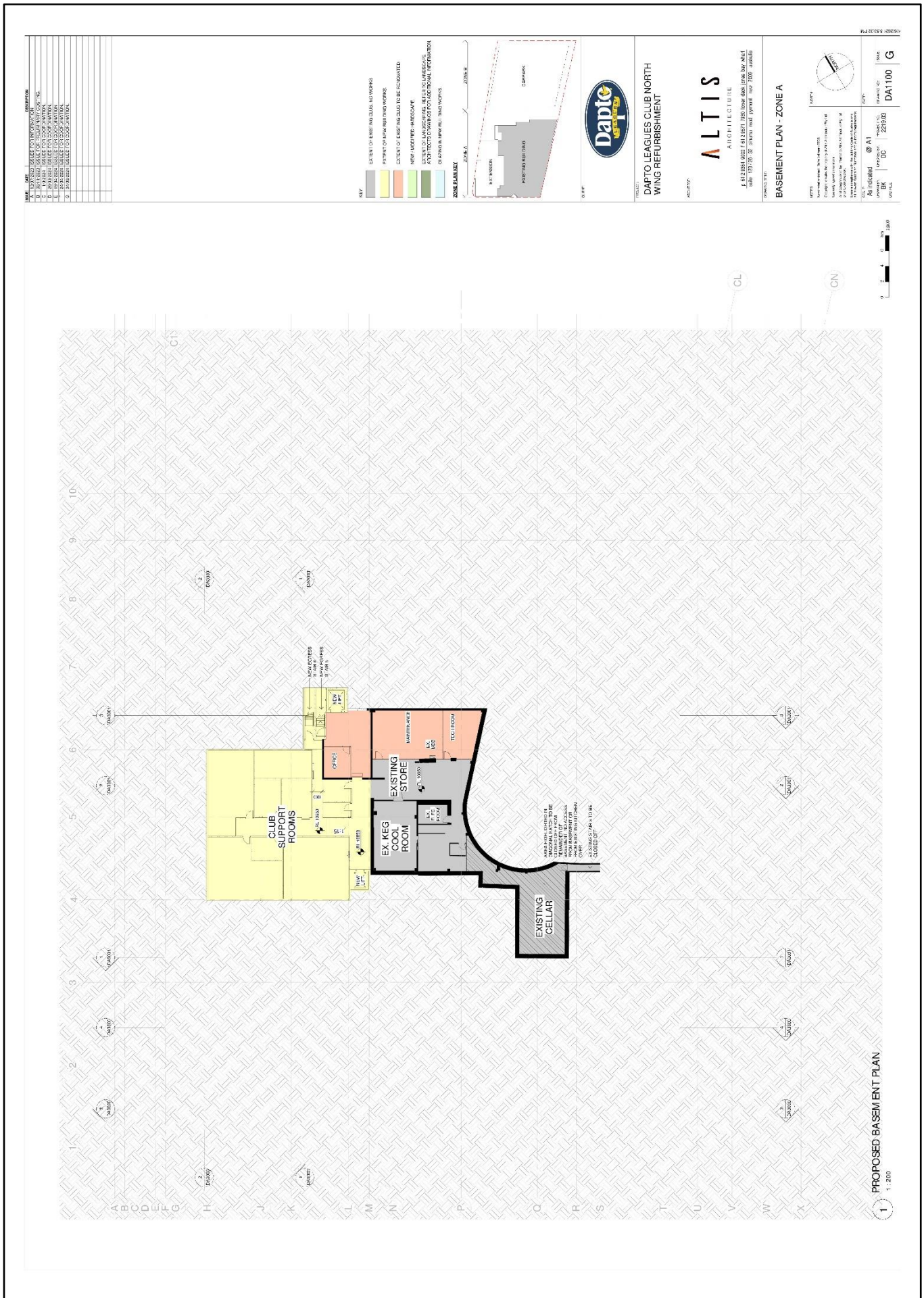










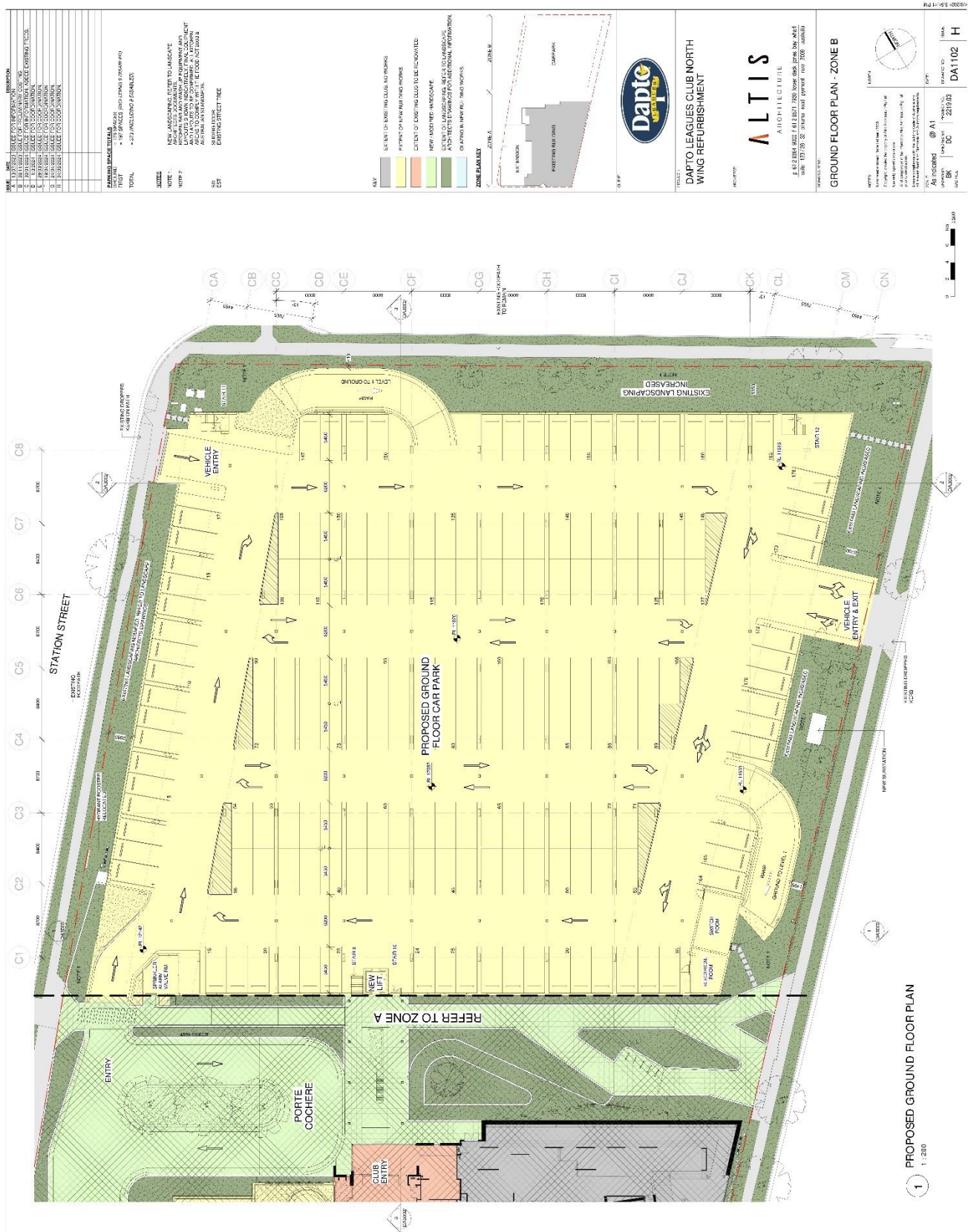




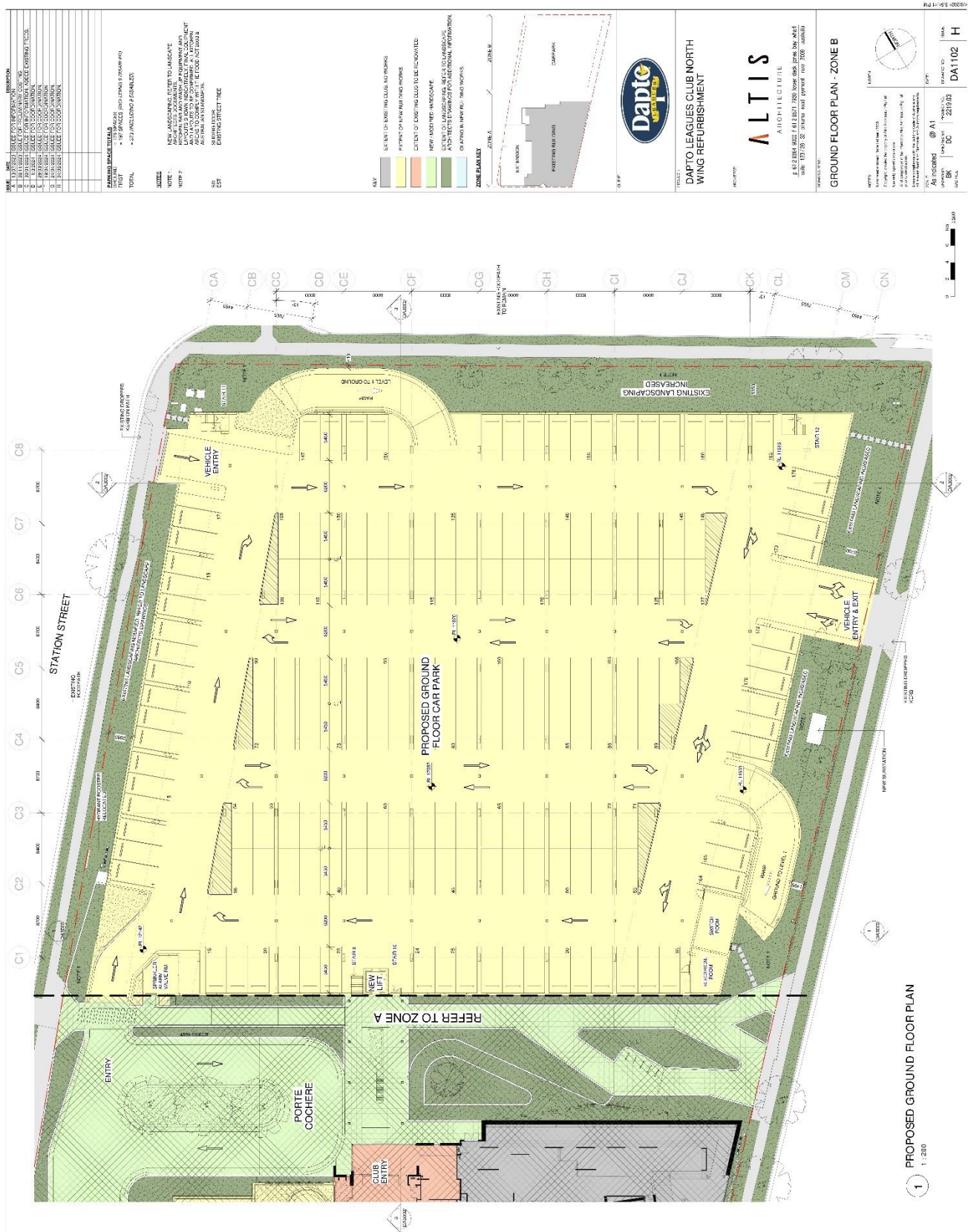


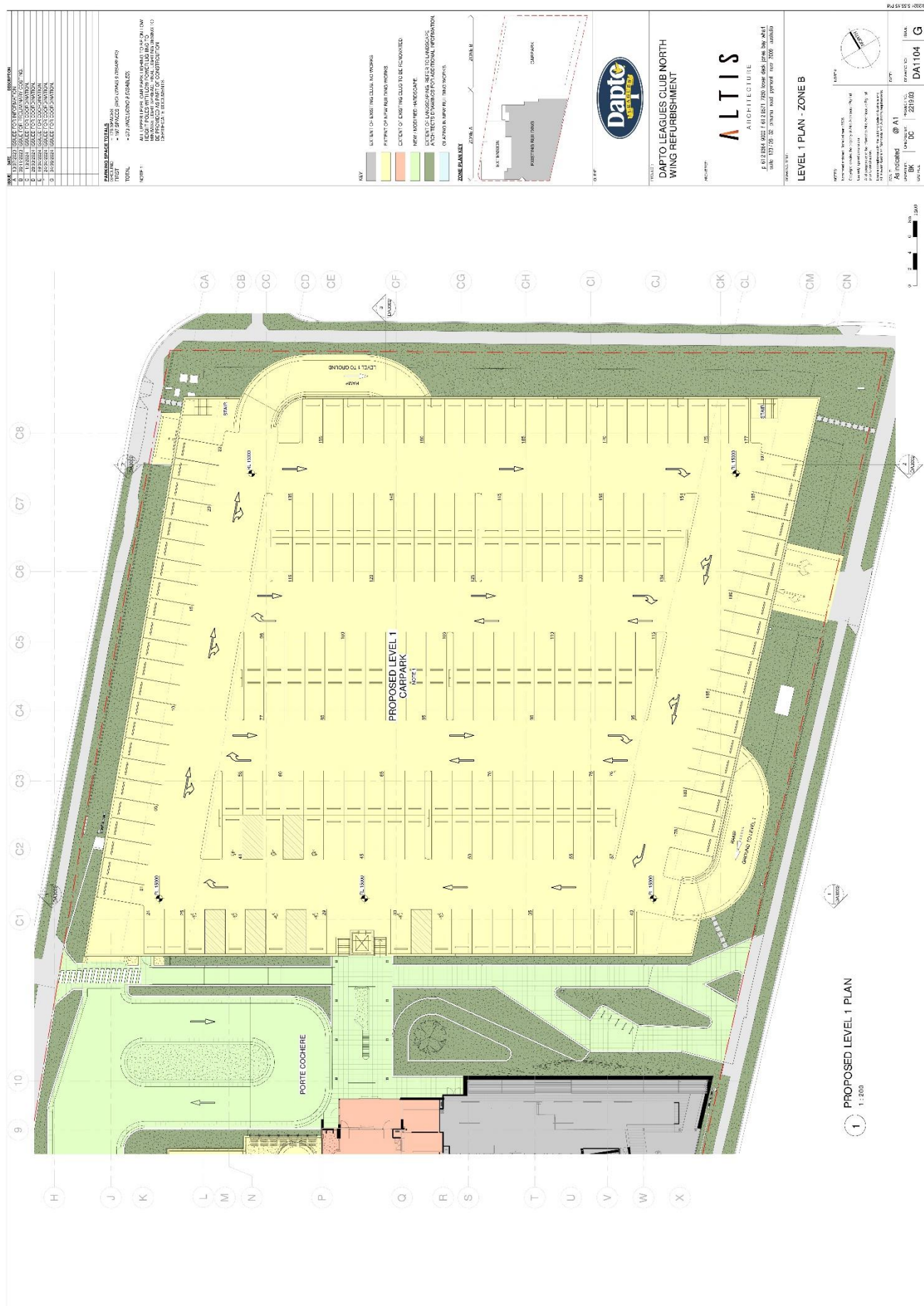




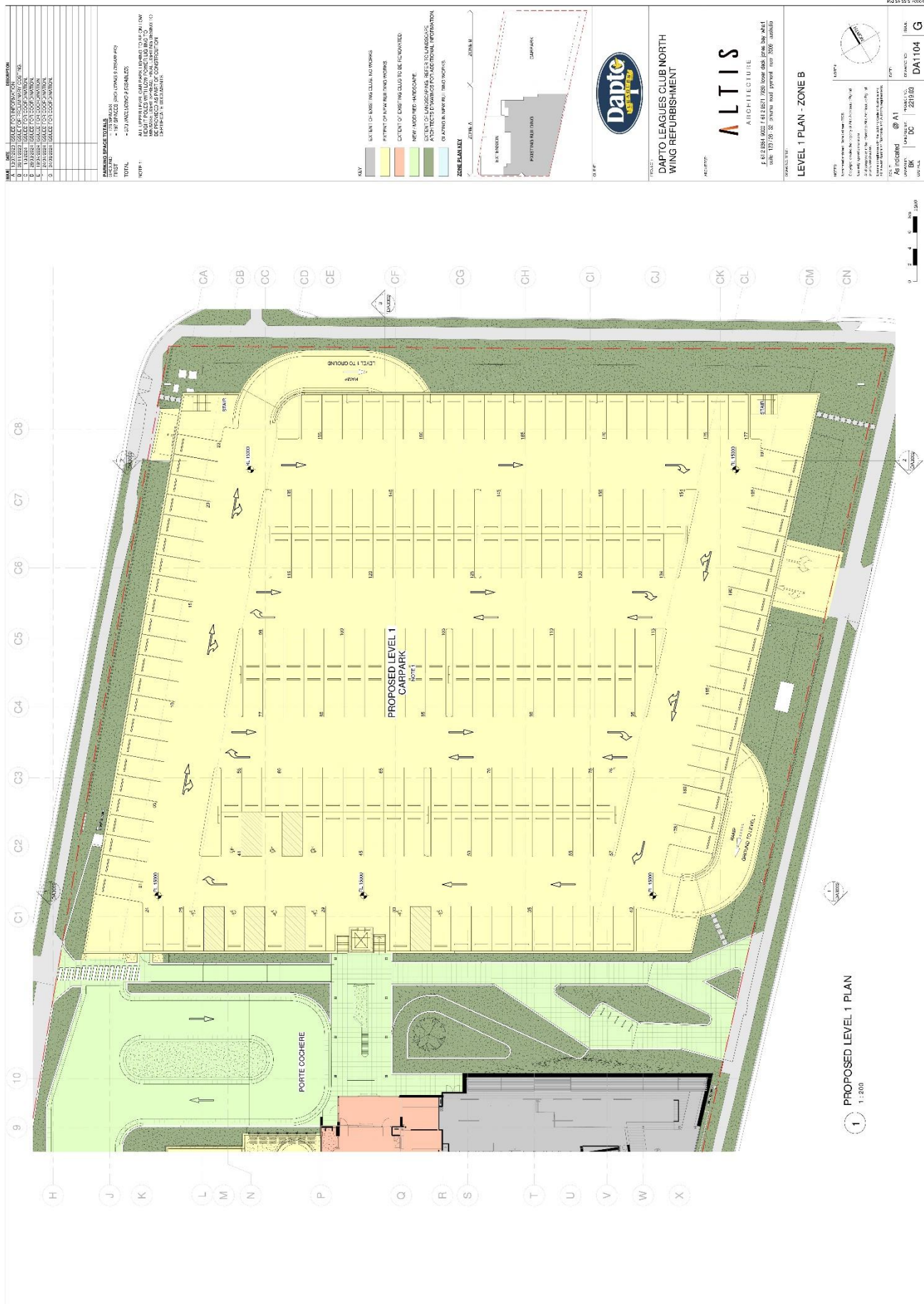












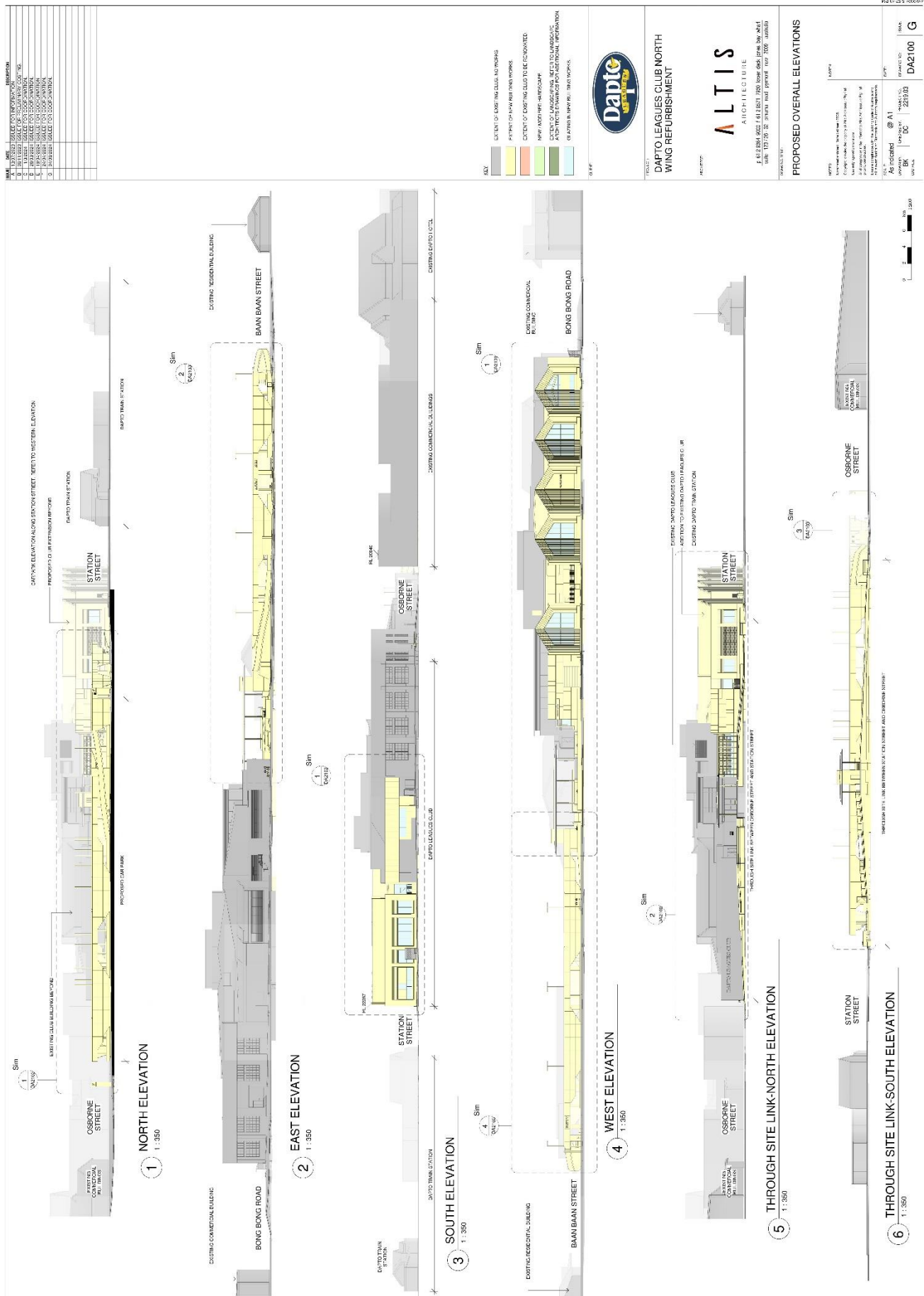






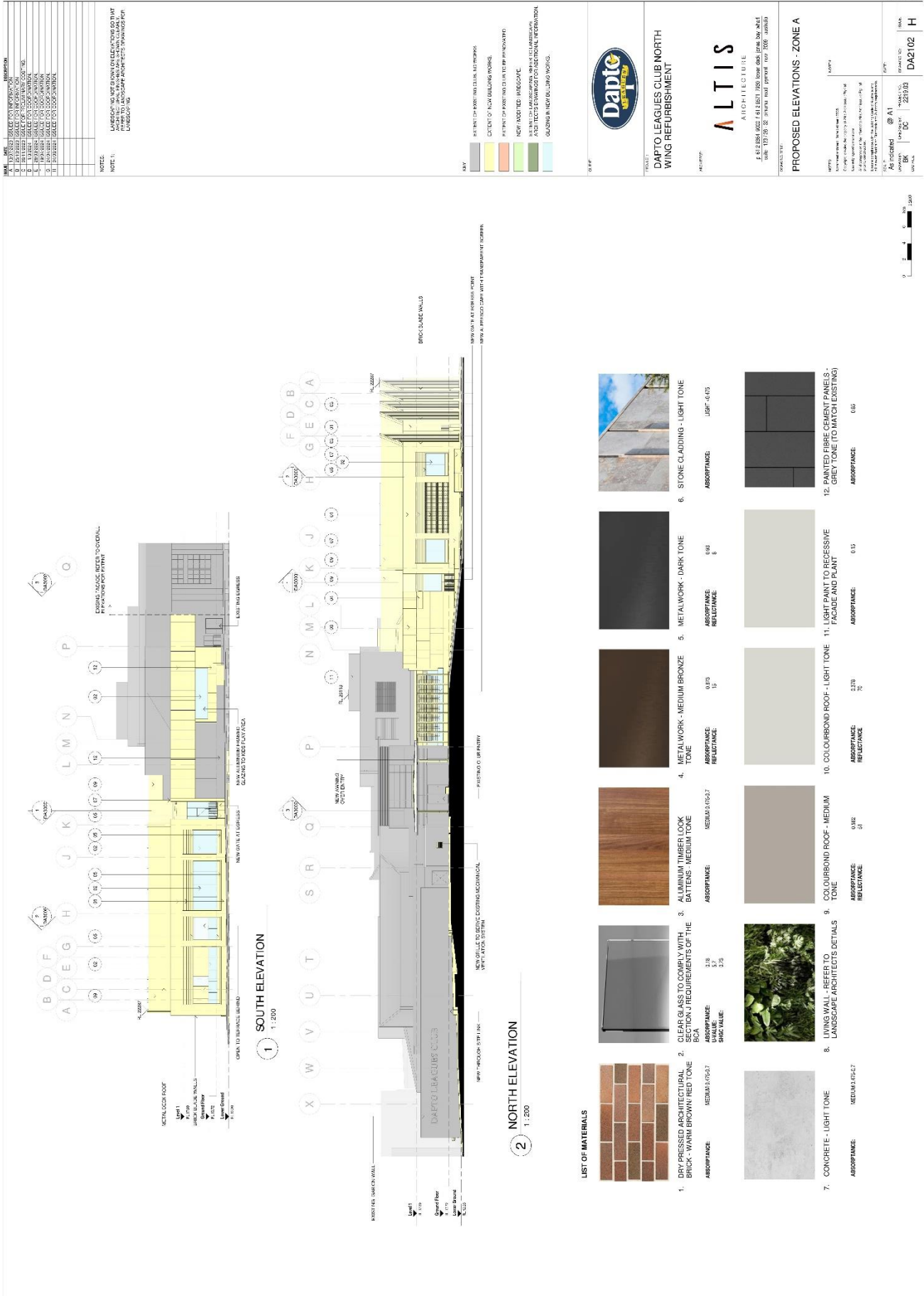




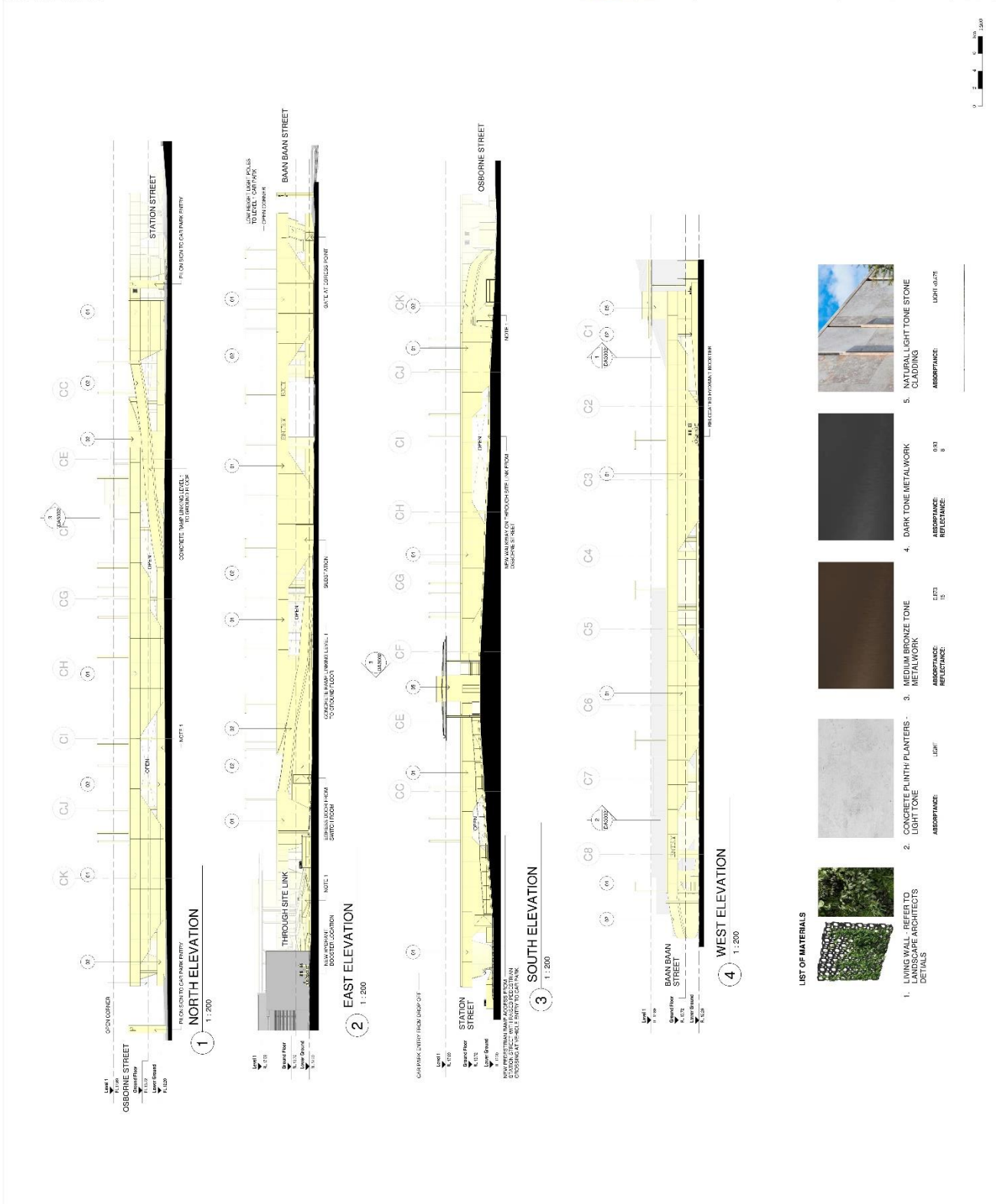






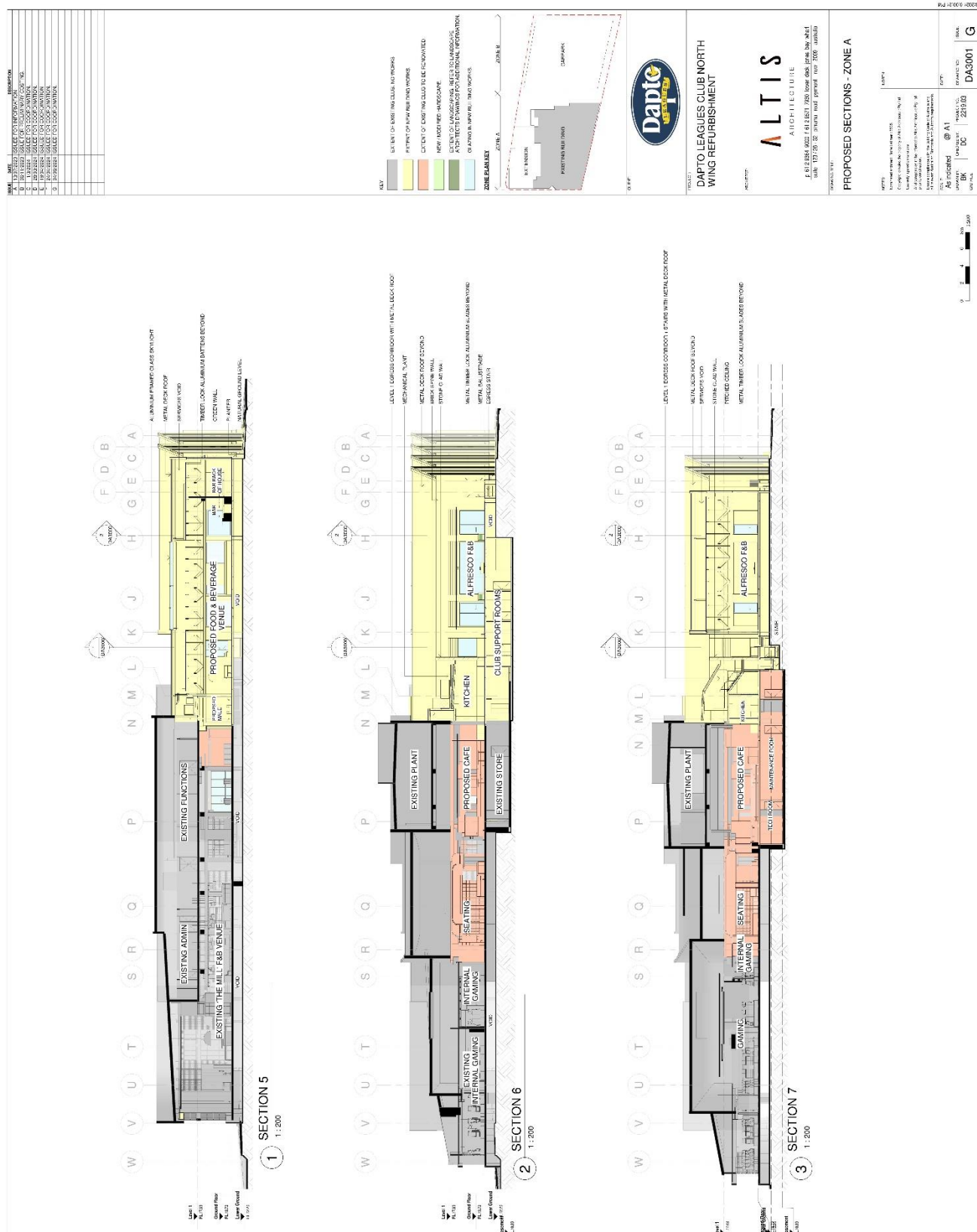


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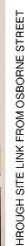










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NO. PLAS.		NO. PLAS.	NO. PLAS.	



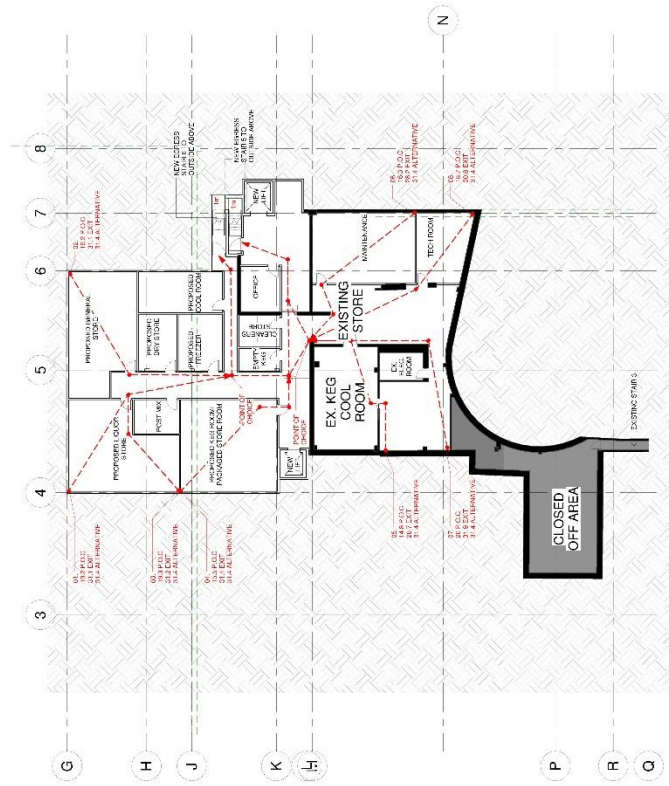






REVISION

NO.	DATE	BY	DESCRIPTION
1	15/08/2020	SK	ISSUED FOR PERMIT
2			
3			
4			
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8			
9			
10			



1 BASEMENT EGRESS PLAN  
1:200



DAPTO LEAGUES CLUB NORTH  
WING REFURBISHMENT



ALTIS ARCHITECTURE  
15/08/2020 15/08/2020 15/08/2020 15/08/2020

BASEMENT FLOOR PLAN EGRESS

PROJECT	DAPTO LEAGUES CLUB NORTH WING REFURBISHMENT
CLIENT	DAPTO LEAGUES CLUB NORTH
DATE	15/08/2020
DESIGNER	ALTIS ARCHITECTURE
DATE	15/08/2020
PROJECT NO.	SK-001
REV.	1
DATE	15/08/2020
BY	SK
CHECKED BY	SK
APPROVED BY	SK
DATE	15/08/2020

DATE	ISSUED FOR INFORMATION	REMARKS
A. 20-0221		

AREA	ASSUMED OCCUPATION
THE MILL	550
THE MILL EXTENSION	90
GAMING	242
CAFÉ	200
BBQ VENUE	600
RECEPTION	4
DOCK	4
TOTAL	1,790
EGRESS WIDTH REQUIRED	15.2M
EGRESS WIDTH PROVIDED	15.2M
0.5M = 60 PATRONS	



**ADAPTO LEAGUES CLUB NORTH  
WING REFURBISHMENT**

[illegible]ALTIIS  
ARCHITECTURE

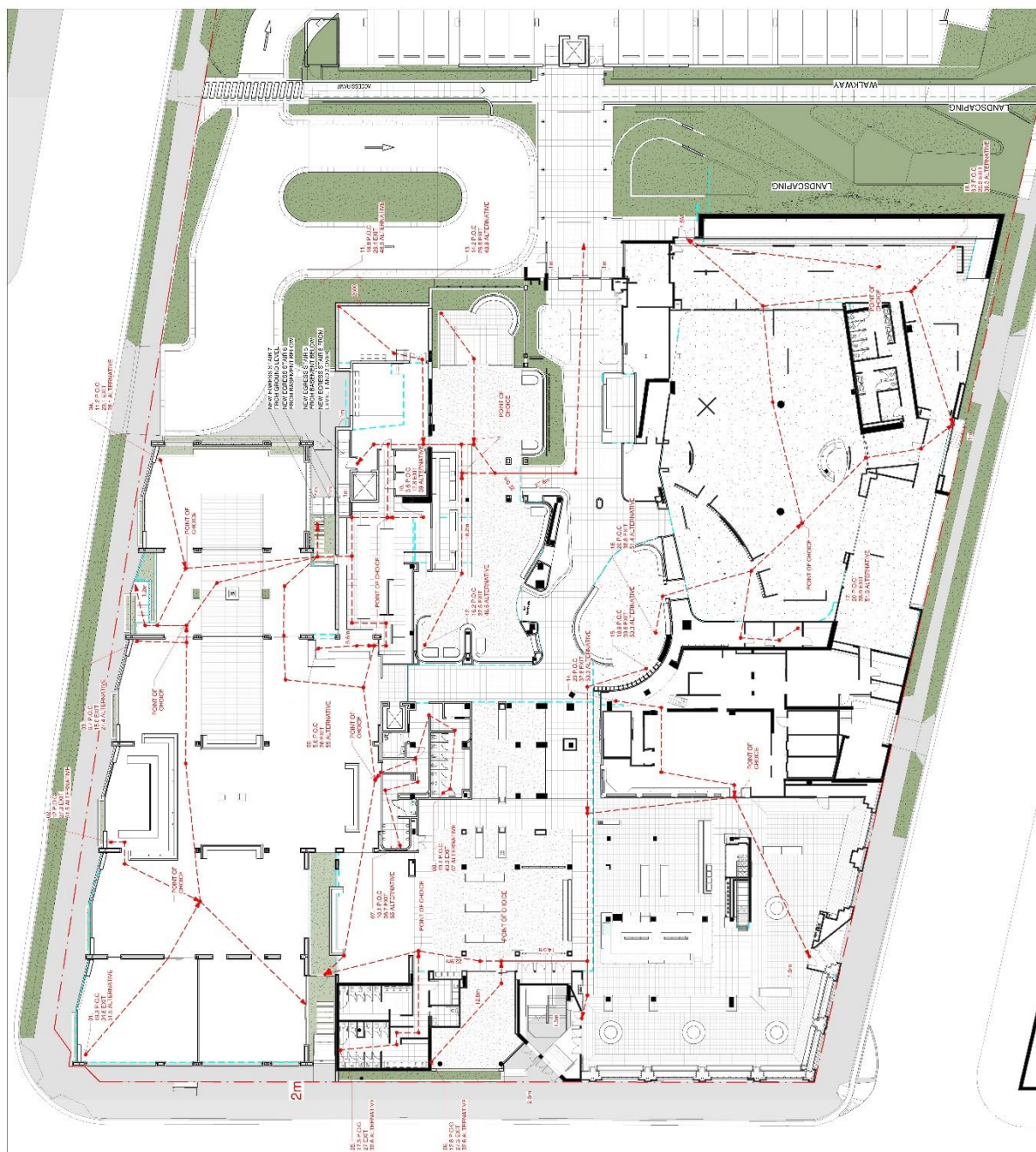
p 612 2364 9002 f 612 25371 7990 lower deck | cras bay whet  
salle 123/26 32 | cras bay road | pyramit | new 2009 | asafida

GROUND FLOOR PLAN-ZONE A -  
EGRESS



only  
were used within 30 min of preparation.  
The 100°C solution for 10 min at 100°C was used  
as a control. The 100°C solution for 10 min at 100°C  
was used as a control.

As indicated	Ⓢ A1	UNCLASSIFIED BY: Author	RECLASSIFIED BY: Checker	DATE: 2219.03	EXPIRATION DATE: SK-002	ISSUE: A
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PROPOSED GROUND FLOOR PLAN  
1 : 200









AREA	ASSUMED OCCUPATION
FUNCTIONS	280
TOTAL	280
EGRESS WIDTH REQUIRED 2.7M	
EGRESS WIDTH PROVIDED 2.7M	
2M=200 PATRONS	
0.5M = 60 PATRONS	



FIGURE 1  
DAPTO LEAGUES CLUB NORTH  
WING REFURBISHMENT

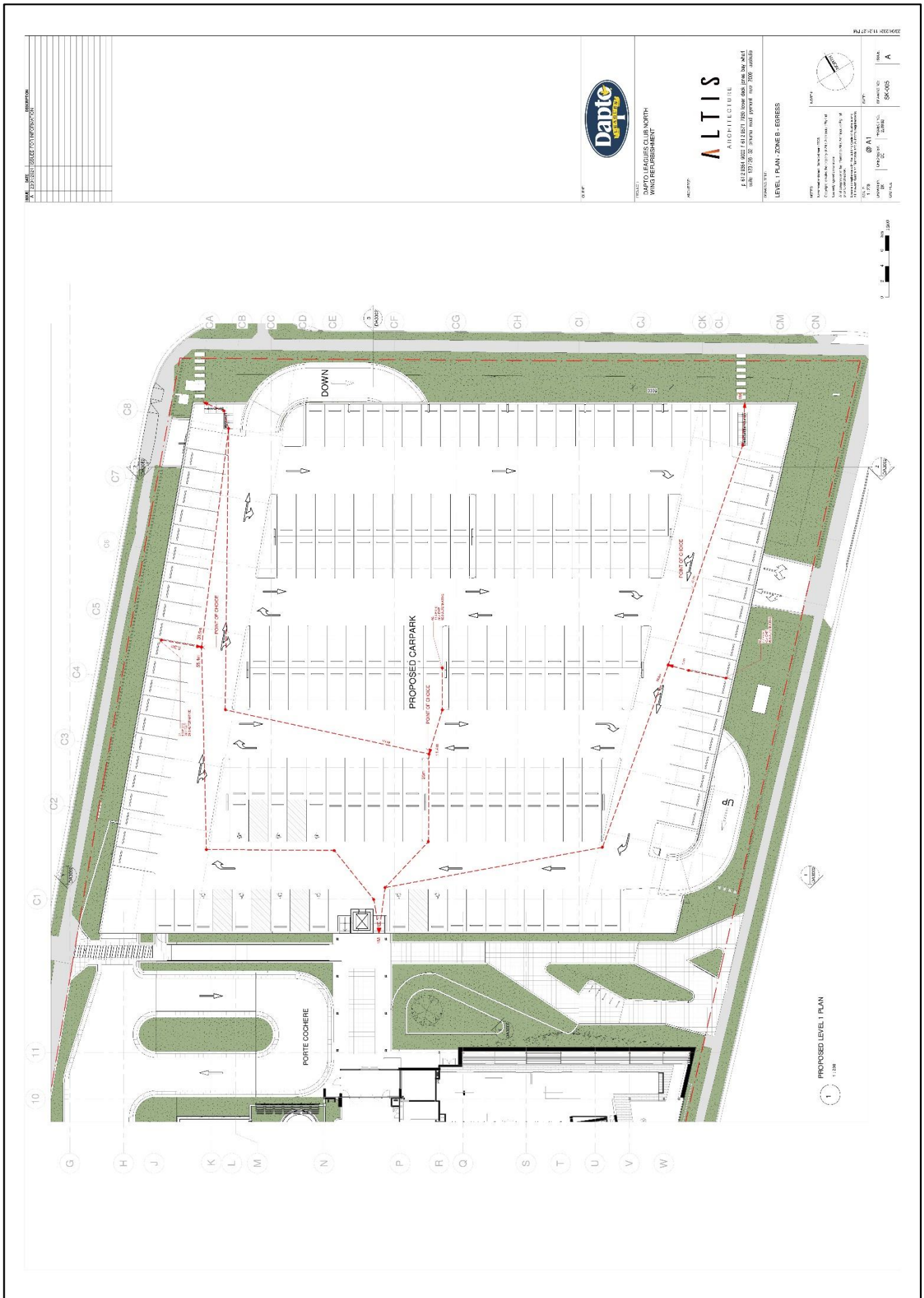
**ALTIS**  
ARCHITECTURE

ARCHITECTURE  
p 612 8261 9002 / 612 8371 7930 loose deck jiras bay what  
suite 123/26 32 oruna road pyrmont near 2009 australia

LEVEL 1 PLAN-ZONE A - EGRESS

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Journal of Internal Medicine 261: 103–112

SK-004 DE JANTZ 02 2219.03 A	AS indicated UNCLASSIFIED Author Check for 2219.03	DATE:
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## APPENDIX B – CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT REGISTER

Date/ Time	Bin Type	Waste Stream	Amount/ Volume	Mode of Transport	Receival Facility	Signature/ Receipt Number