Environmental Noise Impact Assessment

Proposed residential dwellings and mixed-use/commercial space 146-152 Johnston Street, Casino

HEALTH SCIENCE ENVIRONENTAL EDUCATION ENVIRONMENTAL AUDITOR

Document Set ID: 1906122 Version: 1, Version Date: 15/02/2024

Environmental Noise Impact Assessment

Proposed residential dwellings and mixed-use/commercial space 146-152 Johnston Street, Casino

Prepared for: Momentum Collective Version: Final Date: 29 September 2023 Job No. 63/2023 Tim Fitzroy & Associates ABN: 94120188829

ACN: 120188829

Document Set ID: 1906122 Version: 1, Version Date: 15/02/2024 environmenta

Tim Fitzroy

Environmental Health Scientist Environmental Educator Environmental Auditor

> 61 Pine Avenue East Ballina NSW 2478 T | 02 6686 5183 M | 0448 483 837 tim@timfitzroy.com.au www.timfitzroy.com.au

Document Set ID: 1906122 Version: 1, Version Date: 15/02/2024

TABLE OF CONTENTS

Se	ction	Page
1.	INTRODUCTION	6
1	!	6 9
-	4 Site Description	10 11
1	1.4.3 Surrounding Land use5 Proposed Development	
2.	INSTRUMENTATION	13
2	5 1 1	13 13
3.	ACOUSTIC ASSESSMENT	15
3 3 3	2 Acoustical Terms	16
3	_	19 19
	3.4.3 Sensitive Receptors	21 21
	3.4.6 Calculation of Noise Levels	22
4.	IMPACTS OF ROAD TRAFFIC NOISE	26
4		
	ustrations	
	Illustration 1.1 Site LocalityIllustration 2.1 Noise Monitoring Location	12 14
	Illustration 3.1 Location of Noise Sources in Model	20 21



		3.4 Noise contours at 1.5m above day and evening noise evels are in dB(A) Leq	. 23
	Illustration 3	3.5 Noise contours at 1.5m above ground, night noise source described the description of	es.
	Illustration 4	4.1 Noise contours at 1.8m (Ground Floor), 2033 traffic evels are in dB(A) L10,18hr	
	Illustration 4	4.2 Noise contours at 4.6m (First Floor), 2033 traffic volumes in dB(A) L10,18hr	S.
Γ	ables		
	Table 3.1	Example noise sources and the corresponding A-weighted	
		Pagicara und Cound Draggues Lavala	
	Table 3.2 Table 3.3	Background Sound Pressure Levels Noise Source Levels	
	Table 3.4	Predicted noise levels, all noise sources. Levels are in dB(A	
	Leq	22	,
	Table 4.1	Traffic volumes	
	Table 4.2 2023)	Model validation, levels are in LA10,18hr, free-field (9th Aug 26	ust
	Table 4.3	Predicted Noise levels, façade-affected	. 26
	Table 4.4	Assessment of residential facades, levels are LAeq façade-	
	affected.	STC / Pay Coloulations to achieve the internal naise goals	22
	Table 4.5	STC / Rw Calculations to achieve the internal noise goals	. აა
`		l!aaa	
1	ppend	ices	
		nent Plans	
В	Noise Da	ta	. 16



1. Introduction

1.1 Purpose

Tim Fitzroy & Associates has been engaged by Momentum Collective to undertake an Environmental Noise Impact Assessment (ENIA) to accompany a Development Application to Richmond Valley Shire Council for proposed residential dwellings and mixed-use/commercial space to be located at 146-152 Johnston Street, Casino.

This report provides details on the noise assessment and modelling carried out by *Tim Fitzroy & Associates* and *Noise Measurement Services, Brisbane* to establish existing noise levels at the subject site and investigate potential noise impacts on residences within the development and surrounding residences.

The purpose of this noise assessment is to:

- 1. Establish existing background noise levels across the subject site;
- Examine the likely impacts of the proposed development on the existing surrounding residences in accordance with the NSW EPA Noise Policy for Industry (2017);
- 3. Assess road noise impacts (of the Brunxer Highway (Johnston Street) on users of the proposed residential and commercial buildings as per Section 2.120 of the Transport and Infrastructure SEPP 2021 and relevant *Development near Rail Corridors and Busy Roads Interim Guideline*; and
- 4. Report on noise levels and provide recommendations to ensure that the proposed development complies as far as practicable with the intent of the NSW EPA Noise Guidelines.

1.2 Applicable Noise Criteria

Protection of the Environment Operations Act 1997 (POEO Act) and the Protection of the Environment Operations (Noise Control) Regulation 2008 (Noise Control Regulation)

The Protection of the Environment Operations Act 1997 (POEO Act) and the Protection of the Environment Operations (Noise Control) Regulation 2008 (Noise Control Regulation) provide the main legal framework and basis for managing unacceptable noise.

The POEO Act:

- identifies the authority responsible for regulating noise (s. 6 of the Act)
- defines 'noise' and 'offensive noise' (Dictionary in the Act)
- provides a range of regulatory tools to manage noise, including Noise Control Notices, Prevention Notices, Noise Abatement Directions and Noise Abatement Orders.

Depending on the circumstances, the Noise Control Regulation may require an assessment of a noise's audibility, time of occurrence, duration or offensiveness. The POEO Act does not always require noise to be measured to determine whether it is offensive. However, noise measurement can help in deciding what action, if any, is necessary.



1.2.1 Offensive Noise

Depending on the type of noise under consideration, noise can be considered as offensive in three ways according to it's:

- audibility
- duration
- inherently offensive characteristics.

Given the nature of the noise complaints, it will be necessary for Council to consider a range of factors to determine whether the noise is offensive, including the following:

- the loudness of the noise, especially compared with other noise in the area
- the character of the noise
- the time and duration of the noise
- whether the noise is typical for the area
- how often the noise occurs
- the number of people affected by the noise.

1.2.2 Intrusive Noise

Noise is identified as 'intrusive' if it is noticeably louder than the background noise and considered likely to disturb or interfere with those who can hear it.

1.2.3 Sleep disturbance

Specific provisions relate to sleep disturbance and the World Health Organization recommends that a maximum level of 45 dB (A) should not be exceeded inside a bedroom. For practical purposes this is equivalent to a maximum level of 55 dB (A) outside a residence, with an open window to the bedroom (Guidelines for Community Noise WHO 1999).

1.2.4 Noise Policy for Industry

Despite the introduction of the new *Noise Policy for Industry* (NSW EPA 2017). The new Noise Policy for Industry provides a framework and criteria for the consistent assessment of the impact and control of noise from industrial developments.

It is specifically for large industrial developments that require development approval from the Department of Planning and Environment under the Environmental Planning and Assessment Act 1979 and/or that the NSW Environment Protection Authority (EPA) regulates, such as mines, quarries and other large industries listed in Schedule 1 of the Protection of the Environment Operations Act 1997.

It also has information that may be useful for assessing and controlling noise from smaller industrial premises that are typically regulated by councils.

In general, the types of premises dealt with in the policy include:

- industrial premises
- extractive industry premises
- commercial premises (generally limited to noise from heating, ventilation, air conditioning and refrigeration, and energy generation equipment)
- warehousing premises
- maintenance and repair facility premises
- intensive agricultural and livestock premises, for example, cattle feedlots and poultry farms
- utility generation/reticulation service premises, for example, energy generation from sources other than wind.



The policy can also be used to assess noise from mechanical plant and equipment; industrial and commercial processes; and vehicle movements within the premises and/or on private roads.

The policy does not apply to:

- vehicles associated with an industrial premise that are on a public road
- transportation corridors (roadways, railways, waterways and air corridors)
- noise from sporting facilities, including motor sport facilities
- construction activities
- noise sources covered by regulations (domestic/neighbourhood noise)
- blasting activities
- shooting ranges
- internal or occupational noise within any workplace regulated by SafeWork NSW
- wind farms
- amplified music/patron noise from premises including those licensed by Liquor and Gaming NSW.

Other government policies, guidelines and legislation typically cover these noise sources.

In regards to the proposed development the application of the Noise Policy for Industry is limited to:

- Fixed mechanical equipment (air conditioning and mechanical ventilation);
- Vehicle movements on the subject property.

Noise associated with the commercial premises is regulated by the NSW "Noise Policy for Industry". The assessment procedure has the following components to determine the project noise trigger levels:

- Intrusiveness Noise Level (LAeq, 15 min): the limit criteria for this assessment is as follows:
 - LAeq, 15 min ≤ rating background level + 5 dB;
- Amenity Noise Level (LAeq, period): this is achieved by ensuring that the
 proposed development complies with the noise limit criteria set in Table 2.2 of
 the Policy. As the area is within an *Urban Area* (as defined in Table 2.3 of the
 Policy), the following limits apply:



Table 2.2: Amenity noise levels.

Receiver	Noise amenity area	Time of day	L _{Aeq} , dB(A)
(see Table 2.3 to determine which resider category applies)		ential receiver	Recommended amenity noise level
Residential	Rural	Day	50
		Evening	45
		Night	40
	Suburban	Day	55
		Evening	45
		Night	40
	Urban	Day	60
		Evening	50
		Night	45

1.2.1 Road Traffic Noise

Impacts from road traffic noise on public roads, as with other sources of environmental pollution, are assessed in the RNP through criteria that are transparent, equitable and consistent both on an individual project and on a statewide basis.

The criteria aim to provide protection primarily inside and immediately around permanent residences, and at schools, hospitals and other sensitive land uses, rather than at all points in a given locality, which would not be practical or possible. A review of external (outdoor) noise assessment criteria in other countries shows that a planning level of 45–55 dB(A) LAeq appears to be the most widely used night-time criterion, with a day-time criterion set 5–10 dB above this. In many countries, variations in the criteria allow higher noise levels on existing roads, and lower noise levels on roads in quiet areas or near noise-sensitive land uses such as hospitals. When investigating future residential development adjacent to proposed roads the document suggests that where feasible and reasonable, noise levels should be reduced to meet the noise criteria via judicious design and construction of the development. Locations, internal layouts, building materials and construction should be chosen so as to minimise noise impacts. Additionally, consideration of road surfacing with a smoother surface is known to reduce traffic noise levels.

1.2.2 State Environmental Planning Policy (Infrastructure) 2007 (Infrastructure SEPP)

The State Environmental Planning Policy (Infrastructure) 2007 (Infrastructure SEPP) (Department of Planning 2007) sets internal noise criteria which must be met by new developments along some of the busiest transport corridors in NSW. This is a major initiative to ensure that sustainable higher density living can occur along major transport routes whilst maintaining an acceptable level of amenity for residents.

The SEPP Infrastructure aligns with Australian Standard AS/NZS 2107:2016 'Acoustics – Recommended Design Sound Level and Reverberation Times for Building Interiors'. These levels expressed as L_{Aeq} are presented below.



Australian Standard 2107:2016 Acoustics – Recommended design sound levels and reverberation times for building interiors provides relevant interior design sound level ranges for Residential Buildings, Health Buildings and Office Buildings:

- Residential Buildings (Houses and apartments in suburban areas or near minor roads)
 - Living areas, work areas: 30 to 40 dB(A) Leg,t
 - Sleeping areas (night): 30 to 35 dB(A) Leq,t
 - Work areas: 35 to 40 dB(A) Leq,t

Health Buildings

- Consulting Rooms: 40 to 45 dB(A) Leq,t
- Waiting rooms, reception areas: 40 to 50 dB(A) Leq,t
- o Dining areas: 40 to 45 dB(A) Leq,t
- o Patient lounge: 40 to 45 dB(A) Leq,t
- Kitchens, sterilizing and service areas: < 55 dB(A) Leq,t
- Office Areas: 35 to 45 dB(A) Leg.t

Office Buildings

Board and conference rooms: 30 to 40 dB(A) Leg,t

1.2.5 Noise Guideline for Local Councils

The NSW Noise Guide for Local Government provides guidance relating to noise emissions from activities that are not specifically the responsibility of the NSW EPA.

Overview of Noise Assessment 1.3

This noise assessment establishes the existing background noise levels within the vicinity of the nearest affected sensitive receiver.

The noise assessment process included the following components:

- Measurement and determination of the existing background and ambient noise at the site:
- Consideration of potential noise impacts on surrounding residences; and
- Consideration of what feasible and reasonable noise mitigation measures ought to be considered where the project-specific noise levels are exceeded.

1.4 Site Description

The subject site covers an area of about 3,233m2 on the eastern perimeter of Casino, NSW. The site is accessed via Clarke Street and is currently vacant, comprising a single tree in the south east corner with the remainder cleared grassed.

A site locality diagram is provided in **Illustration 1.1**.



1.4.1 Topography

The site is considered generally level positioned at about RL 22.8m Australian Height Datum (AHD).

1.4.2 Climate

Weather recording data was collected from the official Bureau of Meteorology (BOM) Weather Station at Casino Airport. Rainfall and wind greater than 5km/hr were excluded from the noise monitoring results.

1.4.3 Surrounding Land use

The site is bounded by a Service station and commercial development to the west, residential development to the north and east, the Bruxner Highway (Johnston Street) to the south and thereafter a caravan park mixed with residential accommodation.

1.5 Proposed Development

The proposed development comprises a proposed residential dwellings and mixed-use/commercial space. A copy of the Development Plans is provided in **Appendix A**.



Illustration 1.1 Site Locality





2. Instrumentation

2.1 Noise Monitoring Equipment

Tim Fitzroy & Associates utilised the following equipment in this Noise Impact Assessment:

A Type 1, 1/3 Octave Band Larson Davis Noise Meter for noise measurements

Calibration of the noise monitoring equipment was undertaken prior to use. To ensure no significant tonal drift occurred over the monitoring period, the calibration was checked before and after each measurement period.

2.2 Monitoring Methodology

Consistent with the purpose of the acoustic assessment, the aim of the noise monitoring process was to establish:

- the existing background and ambient noise at the site;
- consideration of potential noise impacts on proposed and surrounding residences;
 and
- consideration of what feasible and reasonable noise mitigation measures ought to be considered where the project-specific noise levels are exceeded.

Long term noise monitoring was undertaken to establish the existing background noise environment at the subject site. Ambient sound pressure levels were measured generally in accordance with Australian Standard AS1055.1:1997 - 'Acoustics-Description and measurement of environmental noise - Part 1: General procedures.

Long term noise monitoring was undertaken to assess existing road traffic noise impacts in the location of the proposed dual occupancy dwelling. Ambient sound pressure levels were measured generally in accordance with Australian Standard AS1055.1:1997 - 'Acoustics-Description and measurement of environmental noise - Part 1: General procedures'. A Type 1, 1/3 Octave Band Larson Davis Noise Meter was placed at a measurement location NML1 to monitor the road noise impacts and ambient noise levels, in continuous 15-minute intervals from 8 to 15 August 2023 to gather information of background noise during the day, evening and night. The microphone at each location was 1.35m above ground level.

Illustration 2.1 shows the location of the noise meter.



Illustration 2.1 Noise Monitoring Location



3. Acoustic Assessment

3.1 The Decibel Scale

The human ear responds to sound pressure levels over a very wide range – the loudest sound pressure level to which the human ear responds is ten million times greater than the quietest. This large ratio is reduced to a more manageable size by the use of logarithms. To avoid scale which is too compressed a factor of ten is introduced, giving rise to the decibel. The following **Table 3.1** provides an indication of typical A-Weighted sound pressure levels measured in decibels with typical noise sources. The table provides a good reference when comparing decibel readings.

Table 3.1 Example noise sources and the corresponding A-weighted decibel levels

Sound Pressure Level (dBA)	Typical Source	Subjective Evaluation
140 130 120 110	Long range gun, gunner's ear Threshold of pain Jet take-off at 100m Night club dance floor	Extremely noisy to intolerable
100 90	Loud car horn at 3 metres Heavy truck at 10m	Very noisy
80 70	Curbside of busy street Car interior	Loud
60 50	Normal conversation at 1m Office noise	Moderate to quiet
40 30	Living room in quiet area Inside bedroom at night	Quiet to very quiet
20	Unoccupied recording studio	Almost silent

The sensitivity of people to noise level changes varies from person to person. However generally, a change of up to 3 dBA in the level of a sound is difficult for most people to detect, whilst a 3 dBA to 5 dBA change corresponds to a small but noticeable change in loudness. A 10 dBA change corresponds to an approximate doubling or halving in loudness.

3.2 Acoustical Terms

This report makes reference to a number of different acoustical terms. Particularly the L_{Aeq} , L_{Amax} , L_{A10} and L_{A90} descriptors. Each descriptor is briefly explained below.

- The L_{Aeq} is essentially the average sound level. It is defined as the steady sound level that contains the same amount of acoustical energy as a given time; varying sound over a defined measurement period.
- The L_{Amax} noise level is the maximum A-weighted noise level.
- The L_{A10} is the A-weighted sound pressure level exceeded 10% of a given measurement period and is utilised normally to characterise typical maximum noise levels.
- The L_{A90} noise level is the A-weighted sound pressure level exceeded 90% of a given measurement period and is representative of the average minimum background sound level (in the absence of the source under consideration), or simply the "background" level.

A graphical display of typical noise indices and the relationship between each noise descriptor is provided below in Figure 3.1.

55
50
LAmax
45
LA1
LA10
LA90
35
30
25
00:00
05:00
10:00
15:00
Monitoring or Survey Period (minutes)

Figure 3.1 Graphical Display of Typical Noise Indices

3.3 Existing Noise Environment

The primary noise observed while on site emanates from road traffic along Bruxner Highway (Johnston Street). Secondary noise sources included bird calls.



Table 3.2 Background Sound Pressure Levels

Period	Intrusiveness noise level	Project amenity noise level for Urban Area
Daytime	50 L _{Aeq 15min} (45 (RBL) + 5)	58 L _{Aeq 15min} (60 - 5 +3)
Evening	43 L _{Aeq 15min} (38 (RBL) + 5)	48 L _{Aeq 15min} (50 - 5 + 3)
Night time	36 L _{Aeq 15min} (31 (RBL)+ 5)	43 L _{Aeq 15min} (45 - 5 + 3)

Table 2.2: Amenity noise levels.

Receiver	Noise amenity area	Time of day	L _{Aeq} , dB(A)
(see Table 2.3 to determine which resider category applies)		ential receiver	Recommended amenity noise level
Residential	Rural	Day	50
		Evening	45
		Night	40
	Suburban	Day	55
		Evening	45
		Night	40
	Urban	Day	60
		Evening	50
		Night	45

Notes:

- 1. Intrusiveness noise level is LAeq,15min RBL + 5 (Section 2.1 (EPA 2017).
- 2. Project amenity noise level (ANL) is rural ANL (Table 2.2, EPA 2017) minus 5 dB(A) plus 3 dB(A) to convert from a period level to a 15-minute level (dB = decibel; dB[A] = decibel [A-weighted]; RBL = rating background noise level).

The project noise trigger level is the lower (that is, the most stringent) value of the intrusiveness and amenity noise levels. Therefore, the project noise trigger levels are as follows:

daytime: LAeq,15min 50 dB(A)

evening: LAeq,15min 43 dB(A)

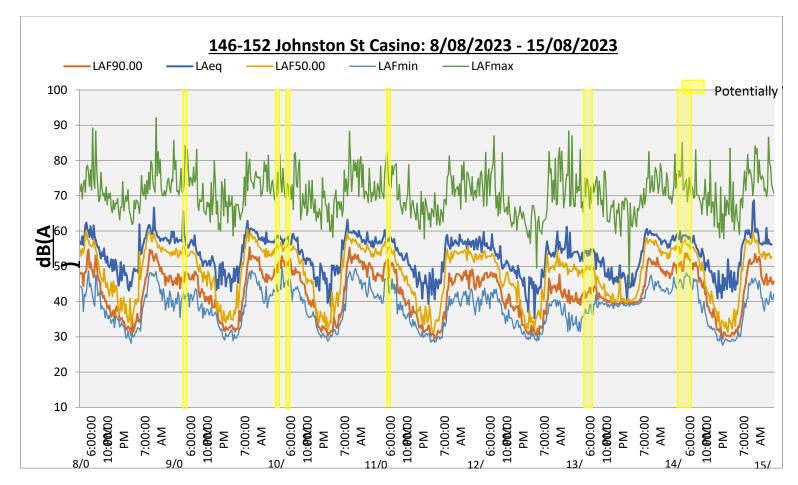
• night-time: LAeq,15min 36 dB(A)

As can be seen from the above table, the project specific noise criteria are determined by the intrusive noise criteria.

The ambient and background noise levels measured at NML1 over the monitoring period are presented in **Figure 3.2**.



Figure 3.2 Ambient and Background Noise Levels at Measurement Location ML1





3.4 Impact of Proposed Development on Surrounding Residences

3.4.1 Noise Modelling

Noise levels from the expected activities at the proposed development have been predicted to the closest sensitive dwellings using SoundPLAN v8.0 and the prediction methodology ISO9613-2:1996. Noise source levels are sourced from the SoundPlan Emission Library, relevant published literature, and from previous measurements of similar equipment where applicable. All prediction models have limits to their accuracy of prediction. This is due to the inherent nature of the calculation algorithms that go into the design of the models, the assumptions made in the implementation of the model, and the availability of good source sound power data. Various researchers have suggested that an un-calibrated model has an accuracy of ± 5 dB while a calibrated model has an accuracy of ± 2 dB. Calibration means that the model has been established with reference to measured sound levels at a receiver, known source levels and tightly defined propagation variables (wind speed and direction, for example). Alternatively, a series of predictions with different programs but the same assumption variables can be used for verification purposes.

3.4.2 Noise Source Levels

The significant sources of noise emission from the site are expected to include vehicle movements, mechanical plant / air-conditioning, and children playing in the play area. The modelled noise source levels are presented in **Table 3.3.** Vehicle movements are based on the suppled TIA and conservatively apply the peak hourly movements to all time periods. Assessment is made to all time periods the assumption that children will not use the play area during the night.

Air conditioner locations are not known at this stage, noise sources representing outdoor plant are positioned to avoid line-of-sight to the closest receivers (i.e., receivers 2 - 8). Noise sources are positioned as presented in **Illustration 3.1**.

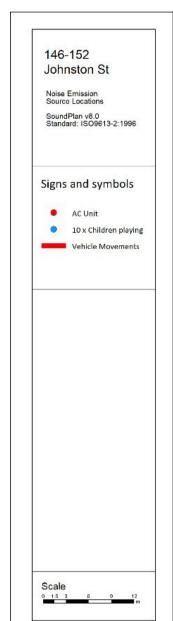
Table 3.3 Noise Source Levels

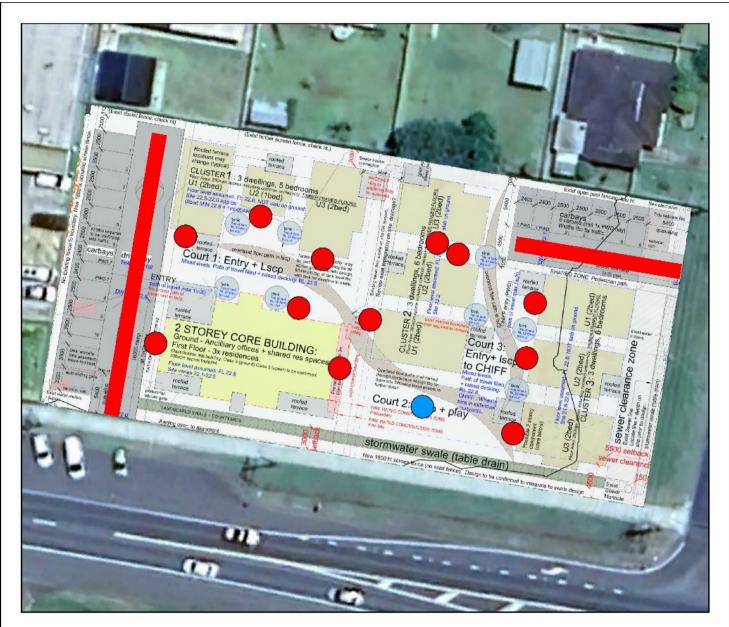
Description	Sum	Timing			
Description	dB(A)	Day	Evening	Night	
Car Movement, SWL dB/m Chiff Housing development, Clark St driveway.	85	3vph @ 10kph	3vph @ 10kph	3vph @ 10kph	
Car Movement, SWL dB/m Core & Cluster 1 Housing development, Johnston St driveway.	85	6vph @ 10kph	6vph @ 10kph	6vph @ 10kph	
Air conditioner, 2.5kW or 5.0 outdoor unit (Daikin Cora)	60	100%	100%	100%	
10 x Children playing outdoors	87	100%	100%	-	

^{*} Vehicle rate is per driveway.



Illustration 3.1 Location of Noise Sources in Model

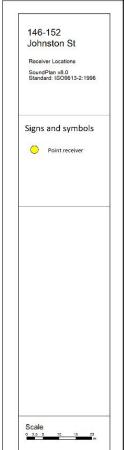




3.4.3 Sensitive Receptors

Receptor points have been chosen to represent the closest surrounding dwellings. Receiver points are placed 30m from the dwelling in the direction of the noise source or on the boundary if it is less that 30m from the dwelling. Receivers are positioned at a height of 1.5m above ground, and predicted levels are free-field. Receiver locations are presented in **Illustration 3.2**.

Illustration 3.2 Location of Receivers





3.4.4 Weather Conditions

Noise modelling using the Concawe methodology to present Standard and Noise-enhancing meteorology is not appropriate in this instance due to the short distances involved. Noise modeling has therefore been made using the prediction methodology *ISO9613-2: 1996* which, by default, presents noise levels at the receiver for meteorological conditions which are favorable for propagation from the sound source to the receiver.

The predicted noise levels are considered to represent the average propagation under meteorological conditions including wind and temperature inversion.



3.4.5 Modeling Verification

The noise model presents future scenarios that have not been measured on site and validation measurements are not possible at this stage, the model is therefore considered to be uncalibrated.

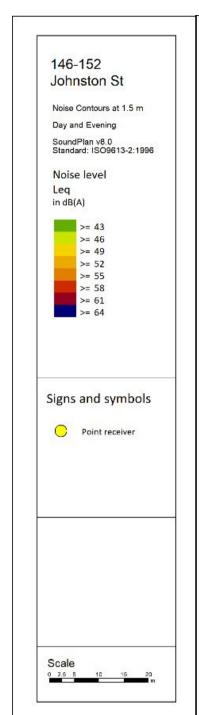
3.4.6 Calculation of Noise Levels

Noise levels from the site have been predicted to each receptor. Predicted noise levels include screening from proposed and existing structures and topography, with topographic information sourced from Geoscience Australia. Predicted noise levels are presented with assessment in **Table 3.4**. Visual noise contours are presented in **Illustrations 3.4**, for the day, evening and **3.5** and night periods respectively.

Table 3.4 Predicted noise levels, all noise sources. Levels are in dB(A) Leq

Pacantar	Predicted Noise Level		Criteria			Assessment			
Receptor	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
1	26	26	22	50	43	36	Pass	Pass	Pass
2	35	35	35	50	43	36	Pass	Pass	Pass
3	30	30	27	50	43	36	Pass	Pass	Pass
4	32	32	30	50	43	36	Pass	Pass	Pass
5	38	38	35	50	43	36	Pass	Pass	Pass
6	31	31	27	50	43	36	Pass	Pass	Pass
7	38	38	26	50	43	36	Pass	Pass	Pass
8	31	31	23	50	43	36	Pass	Pass	Pass

Illustration 3.4 Noise contours at 1.5m above day and evening noise sources. Levels are in dB(A) Leq.



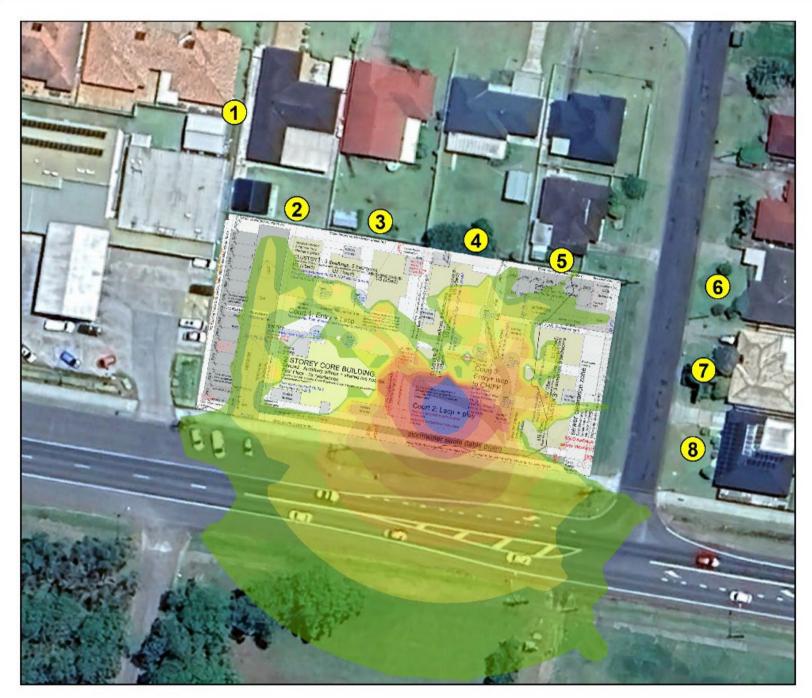
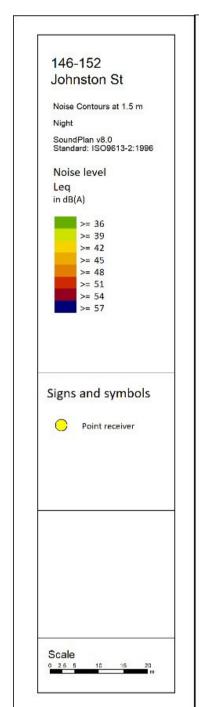




Illustration 3.5 Noise contours at 1.5m above ground, night noise sources. Levels are in dB(A) Leq.







3.4.7 Noise Modelling Outcomes from the Proposed Development

A noise model has been constructed to predict the propagation of noise from expected significant sources at the proposed development. The model includes shielding effects from existing and proposed structures, and topography. Topographic information included in the model was sourced from Geoscience Australia.

As per the assumptions and variables stated, it is concluded that -

- Noise emission levels from the expected sources at the development are predicted to meet the criteria at the closest sensitive receptors during all time periods.
- Mechanical plant must be acoustically screened to avoid direct line-of-sight to the neighbouring dwellings to the north or east. This may be readily achieved by positioning the plant generally as shown in Illustration 3.1.



4. Impacts of Road Traffic Noise

The design levels for traffic noise from Johnston Street / Bruxner Highway are calculated for the proposed development. Calculations are performed in accordance with Australian Standard AS2702-1984 Acoustics-Methods for the measurement of road traffic noise and 'Calculation of Road Traffic Noise', 1975-1988. Predicted levels for this report have been calculated using the CoRTN prediction model SoundPLAN and are façade-affected unless stated otherwise. Traffic data was not available at the time of modelling, the modelled traffic flows are validated to the measured noise level at the site, with nominal 3% p.a. growth.

The noise model incorporates screening from surrounding structures and topography. Topographic information was sourced from Geoscience Australia. The model assumptions and results are presented in the following Tables and Illustrations.

Table 4.1 Traffic volumes

Road	Vehicles per 24hr (18hr volume is 94% of 24hr)		Heavy	Speed	Source Height	Road
	2023	2033	Vehicle %	(km/hr)	(m)	Surface
Johnston Street	9,116	10,070	15	50	0.5	DGA
Clark Street	629	695	5	50	0.5	DGA

Table 4.2 Model validation, levels are in LA10,18hr, free-field (9th August 2023)

Location	Measured	SoundPlan	Difference
NML	58.9	59.3	+0.4

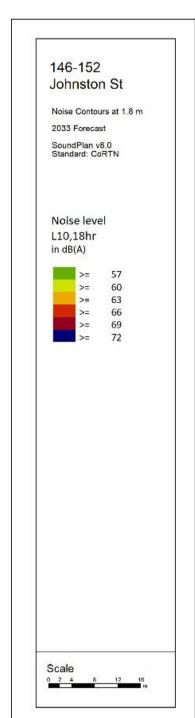
The model validation result presented in **Table 4.2** demonstrates an acceptable level of fit between the modelled and measured noise levels at the site. As a conservative assessment, noise levels are predicted into the design horizon based upon the 2033 traffic volumes, as presented in **Table 4.3**.

Table 4.3 Predicted Noise levels, façade-affected.

Building	Floor	Façade	Forecast Noise Level L _{A10(18hr)} façade-affected
Cluster 1 U1	GF	E	50.1
Cluster 1 U1	GF	N	50.2
Cluster 1 U1	GF	S	60.9
Cluster 1 U1	GF	W	60.7
Cluster 1 U2	GF	E	50.0
Cluster 1 U2	GF	N	50.2
Cluster 1 U2	GF	S	57.2
Cluster 1 U2	GF	W	50.1
Cluster 1 U3	GF	Е	55.1
Cluster 1 U3	GF	N	50.4
Cluster 1 U3	GF	S	57.7
Cluster 1 U3	GF	W	51.4
Cluster 2 U1	GF	E	61.4
Cluster 2 U1	GF	N	51.7

Building	Floor	Façade	Forecast Noise Level
Cluster 2 U1	GF	S	L _{A10(18hr)} façade-affected 65.8
Cluster 2 U1	GF	W	59.8
Cluster 2 U2	GF	E	58.3
Cluster 2 U2	GF	N	51.8
Cluster 2 U2	GF	S	51.8
Cluster 2 U2	GF	W	56.6
Cluster 2 U3	GF	E	56.7
Cluster 2 U3	GF	N	51.5
Cluster 2 U3	GF	S	51.6
Cluster 2 U3	GF	W	54.2
Cluster 3 U1	GF	E	61.5
	GF	N	53.7
Cluster 3 U1 Cluster 3 U1	GF GF	S	52.9
	GF	W	59.2
Cluster 3 U1	GF GF	E	63.0
Cluster 3 U2	GF GF	N N	52.8
Cluster 3 U2		+	
Cluster 3 U2	GF GF	S W	54.7 62.8
Cluster 3 U2			
Cluster 3 U3	GF	E	66.0
Cluster 3 U3	GF	N S	54.0
Cluster 3 U3	GF		69.7
Cluster 3 U3	GF	W	65.9
Core	GF GF	Conference E	67.2
Core	GF	Conference S	69.3
Core	GF	Consult 1 S	68.1
Core	GF	Consult 1 W	65.9
Core	GF	Consult 2 S	67.2
Core	GF	Kid Space E	62.9
Core	GF GF	Kid Space N	47.7
Core	GF GF	Kitchen + Meals N	46.0
Core	GF	Living E	65.4
Core	GF	Living S	68.1
Core	GF	Seats-Waiting W	64.2
Core	GF	Staff Office S	69.2
Core	GF	Staff Office W	67.0
Core	GF	Unit 1 N	55.9
Core	GF	Unit 1 S	68.5
Core	L1	Unit 1 W	65.7
Core	L1	Unit 2 N	52.3
Core	<u>L1</u>	Unit 2 W	55.7
Core	L1	Unit 3 E	67.9
Core	L1	Unit 3 S	69.7
Core	<u>L1</u>	Unit 3 W	67.7
Core	L 1	Unit 4 E	65.1
Core	L 1	Unit 4 N	55.2
Core	L 1	Unit 4 S	68.7
Core	L1	Waiting+Entry N	56.1
Core	L 1	Waiting+Entry W	68.3

Illustration 4.1 Noise contours at 1.8m (Ground Floor), 2033 traffic volumes. Levels are in dB(A) L10,18hr.



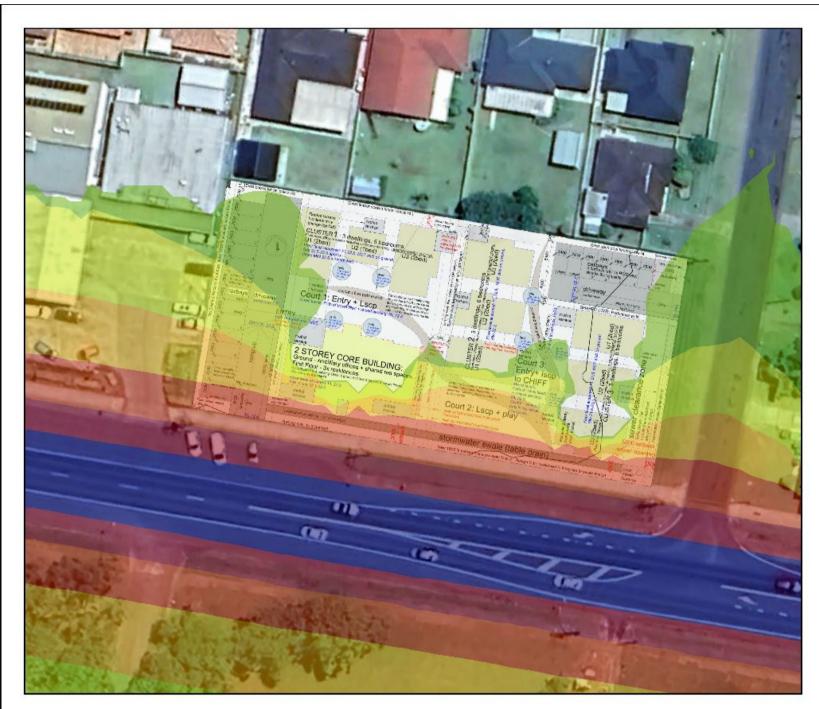
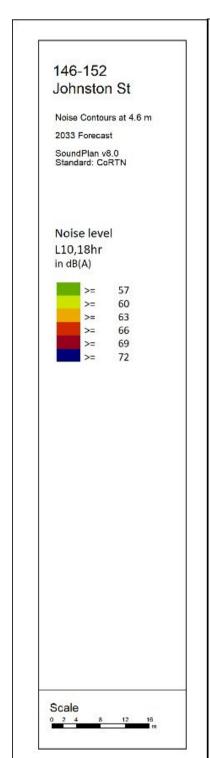
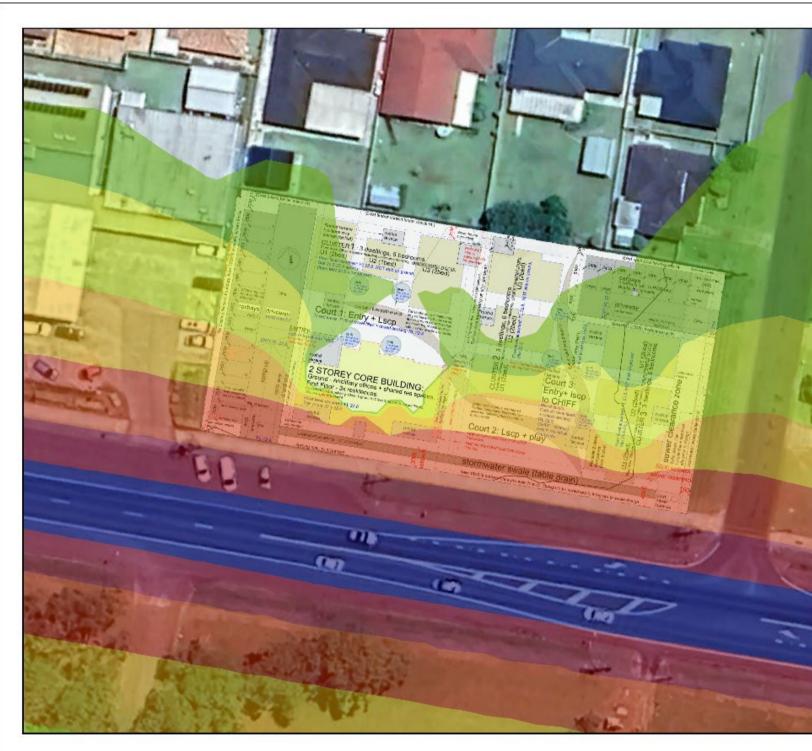


Illustration 4.2 Noise contours at 4.6m (First Floor), 2033 traffic volumes. Levels are in dB(A) L10,18hr.





4.1 Road Traffic Noise Assessment – Residential

It is understood that the residential components of the proposed development must demonstrate that the following external LAeq levels are not exceeded:

- Day (7 a.m. 10 p.m.): 60 dB(A) LAeq,(15 hour)
- Night (10 a.m. 7 p.m.): 55 dB(A) LAeq,(9 hour)

Predicted L10,18hr noise levels are converted to LAeq day (15 hour) and night (9 hour) levels using the measured relationships from 9th August 2023, the measured relationships were:

- LAeq,(15 hour) = L10,18hr -1.0 dB(A).
- LAeq,(9 hour) = L10,18hr -4.1 dB(A).

The predicted day and night LAeq façade levels are presented in **Table 4.4** for the residential components of the development alongside assessment to the day and night façade criteria. Facades that exceed criteria are assigned minimum design requirements as presented in Section 4.2.

Table 4.4 Assessment of residential facades, levels are LAeq façade-affected.

Building	F1	Facada	Forecast N	Noise Level	Assessment			
	Floor	Façade	Day L _{Aeq(15hr)}	Night L _{Aeq(9hr)}	Day (60)	Night (55)		
Cluster 1 U1	GF	Е	49	46	Pass	Pass		
Cluster 1 U1	GF	N	49	46	Pass	Pass		
Cluster 1 U1	GF	S	60	57	Pass	+2		
Cluster 1 U1	GF	W	60	57	Pass	+2		
Cluster 1 U2	GF	Е	49	46	Pass	Pass		
Cluster 1 U2	GF	N	49	46	Pass	Pass		
Cluster 1 U2	GF	S	56	53	Pass	Pass		
Cluster 1 U2	GF	W	49	46	Pass	Pass		
Cluster 1 U3	GF	Е	54	51	Pass	Pass		
Cluster 1 U3	GF	N	49	46	Pass	Pass		
Cluster 1 U3	GF	S	57	54	Pass	Pass		
Cluster 1 U3	GF	W	50	47	Pass	Pass		
Cluster 2 U1	GF	Е	60	57	Pass	+2		
Cluster 2 U1	GF	N	51	48	Pass	Pass		
Cluster 2 U1	GF	S	65	62	+5	+7		
Cluster 2 U1	GF	W	59	56	Pass	+1		
Cluster 2 U2	GF	Е	57	54	Pass	Pass		
Cluster 2 U2	GF	N	51	48	Pass	Pass		
Cluster 2 U2	GF	S	51	48	Pass	Pass		
Cluster 2 U2	GF	W	56	53	Pass	Pass		
Cluster 2 U3	GF	Е	56	53	Pass	Pass		
Cluster 2 U3	GF	N	51	47	Pass	Pass		
Cluster 2 U3	GF	S	51	48	Pass	Pass		
Cluster 2 U3	GF	W	53	50	Pass	Pass		
Cluster 3 U1	GF	Е	61	57	+1	+2		
Cluster 3 U1	GF	N			Pass	Pass		
Cluster 3 U1	GF	S	52	49	Pass	Pass		
Cluster 3 U1	GF	W	58	55	Pass	Pass		
Cluster 3 U2	GF	Е	62	59	+2	+4		
Cluster 3 U2	GF	N	52	49	Pass	Pass		
Cluster 3 U2	GF	S			Pass	Pass		
Cluster 3 U2	GF	W	62	59	+2	+4		
Cluster 3 U3	GF	E	65	62	+5	+7		

Puilding	Floor	Facada	Forecast N	loise Level	Assessment			
Building	Floor	Façade	Day L _{Aeq(15hr)}	Night L _{Aeq(9hr)}	Day (60)	Night (55)		
Cluster 3 U3	GF	N	53	50	Pass	Pass		
Cluster 3 U3	GF	S	69	66	+9	+11		
Cluster 3 U3	GF	W	65	62	+5	+7		
Core	L 1	Unit 1 N	55	52	Pass	Pass		
Core	L 1	Unit 1 S	68	64	+8	+9		
Core	L 1	Unit 1 W	65	62	+5	+7		
Core	L 1	Unit 2 N	51	48	Pass	Pass		
Core	L 1	Unit 2 W	55	52	Pass	Pass		
Core	L 1	Unit 3 E	67	64	+7	+9		
Core	L 1	Unit 3 S	69	66	+9	+11		
Core	L 1	Unit 3 W	67	64	+7	+9		
Core	L 1	Unit 4 E	64	61	+4	+6		
Core	L 1	Unit 4 N	54	51	Pass	Pass		
Core	L 1	Unit 4 S	68	65	+8	+10		

4.2 Building Design for Road Traffic Noise Reduction

Detailed façade design requirements are presented for the non-residential component of the development, and for the residential facades that exceed the criteria presented in Section 2.2. AS3671-1989 Acoustics-Road traffic noise intrusion-Building siting and construction provides guidance on the location and construction of new buildings near major roads. The exterior design noise levels have been calculated from the road traffic noise forecasts presented in Section 4.1. Forecast L10, 18hr values have been converted to Leq, 1hr max day/night according to the relationship between descriptors measured on 9th August 2023 at the site, the relationships are as follows:

- LAeq,, 1hr max day = LA10, 18hr + 4.0 dB
- LAeq, 1hr max night = LA10, 18hr + 2.1 dB

Australian Standard 2107:2016 Acoustics – Recommended design sound levels and reverberation times for building interiors provides relevant interior design sound level ranges for Residential Buildings, Health Buildings and Office Buildings:

- Residential Buildings (Houses and apartments in suburban areas or near minor roads)
 - Living areas, work areas: 30 to 40 dB(A) Leq,t
 - Sleeping areas (night): 30 to 35 dB(A) Leg,t
 - Work areas: 35 to 40 dB(A) Leq,t
- Health Buildings
 - o Consulting Rooms: 40 to 45 dB(A) Leg,t
 - Waiting rooms, reception areas: 40 to 50 dB(A) Leq,t
 - o Dining areas: 40 to 45 dB(A) Leq,t
 - o Patient lounge: 40 to 45 dB(A) Leq,t
 - Kitchens, sterilizing and service areas: < 55 dB(A) Leg,t
 - Office Areas: 35 to 45 dB(A) Leg,t
- Office Buildings
 - Board and conference rooms: 30 to 40 dB(A) Leg,t

The required traffic noise reduction levels (TNR) for the building design have been calculated to achieve the internal noise goals. Detailed calculations to AS3671 are presented in **Table 4.5**. Calculations for residential units are based on a nominal 1.8 x 1.8m window into a 3 x 3m bedroom. Assessment is made to night noise levels and criteria for residential units, and to daytime noise levels for non-residential spaces.



Specific building materials or construction methods are not recommended as the various components must be fit for their purpose and can only be determined by the building designer and relevant manufacturer relevant to the STC/Rw calculations presented in **Table 4.5**.

Table 4.5 STC / Rw Calculations to achieve the internal noise goals.

Room	Element	Façade	External LAeq	AS2107 Criteria	TNR	AS3671 Category	Element Area	Floor Area	Ceiling Height (m)	RT60 (s)	С	TNAc	STC/Rw
Cluster 1 U1	Window	S	56.8	35	22	Category 2	3.24	9.00	2.70	0.50	3	22.59	29
Cluster 1 U1	Wall	S	56.8	35	22	Category 2	4.86	9.00	2.70	0.50	3	24.35	30
Cluster 1 U1	Roof		56.8	35	22	Category 2	1.00	1.00	2.70	0.50	3	27.03	33
Cluster 1 U1	Window	W	56.6	35	22	Category 2	3.24	9.00	2.70	0.50	3	22.39	28
Cluster 1 U1	Wall	W	56.6	35	22	Category 2	4.86	9.00	2.70	0.50	3	24.15	30
Cluster 2 U1	Window	E	57.3	35	22	Category 2	3.24	9.00	2.70	0.50	3	23.09	29
Cluster 2 U1	Wall	E	57.3	35	22	Category 2	4.86	9.00	2.70	0.50	3	24.85	31
Cluster 2 U1	Roof		61.7	35	27	Category 3	1.00	1.00	2.70	0.50	3	31.93	38
Cluster 2 U1	Window	S	61.7	35	27	Category 3	3.24	9.00	2.70	0.50	3	27.49	33
Cluster 2 U1	Wall	S	61.7	35	27	Category 3	4.86	9.00	2.70	0.50	3	29.25	35
Cluster 2 U1	Window	W	55.7	35	21	Category 2	3.24	9.00	2.70	0.50	3	21.49	27
Cluster 2 U1	Wall	W	55.7	35	21	Category 2	4.86	9.00	2.70	0.50	3	23.25	29
Cluster 3 U1	Window	E	57.4	35	22	Category 2	3.24	9.00	2.70	0.50	3	23.19	29
Cluster 3 U1	Wall	E	57.4	35	22	Category 2	4.86	9.00	2.70	0.50	3	24.95	31
Cluster 3 U1	Roof		57.4	35	22	Category 2	1.00	1.00	2.70	0.50	3	27.63	34
Cluster 3 U2	Window	W	58.7	35	24	Category 2	3.24	9.00	2.70	0.50	3	24.49	30
Cluster 3 U2	Wall	W	58.7	35	24	Category 2	4.86	9.00	2.70	0.50	3	26.25	32
Cluster 3 U2	Roof	VV	58.9	35	24		1.00	1.00	2.70	0.50	3	29.13	35
		-				Category 2					3		
Cluster 3 U2 Cluster 3 U2	Window Wall	E E	58.9 58.9	35 35	24 24	Category 2 Category 2	3.24 4.86	9.00 9.00	2.70 2.70	0.50 0.50	3	24.69 26.45	31 32
					27						3		
Cluster 3 U3	Window	W	61.8	35		Category 3	3.24	9.00	2.70	0.50		27.59	34
Cluster 3 U3	Wall	W	61.8	35	27	Category 3	4.86	9.00	2.70	0.50	3	29.35	35
Cluster 3 U3	Roof		65.6	35	31	Category 3	1.00	1.00	2.70	0.50	3	35.83	42
Cluster 3 U3	Window	S	65.6	35	31	Category 3	3.24	9.00	2.70	0.50	3	31.39	37
Cluster 3 U3	Wall	S	65.6	35	31	Category 3	4.86	9.00	2.70	0.50	3	33.15	39
Cluster 3 U3	Window	E	61.9	35	27	Category 3	3.24	9.00	2.70	0.50	3	27.69	34
Cluster 3 U3	Wall	E	61.9	35	27	Category 3	4.86	9.00	2.70	0.50	3	29.45	35
Core,Conference	Wall	E	66.2	40	26	Category 3	6.48	28.00	2.70	0.50	3	25.07	31
Core,Conference	Wall	S	68.3	40	28	Category 3	4.50	28.00	2.70	0.50	3	25.59	32
Core,Conference	Sliding Door	S	68.3	40	28	Category 3	6.30	28.00	2.70	0.50	3	27.05	33
Core,Consult 1	Wall	S	67.1	45	22	Category 2	4.32	14.10	2.70	0.50	3	22.19	28
Core,Consult 1	Sliding Door	S	67.1	45	22	Category 2	3.78	14.10	2.70	0.50	3	21.61	28
Core,Consult 1	Wall	W	64.9	45	20	Category 2	12.69	14.10	2.70	0.50	3	24.67	31
Core,Consult 2	Wall	S	66.2	45	21	Category 2	4.32	14.10	2.70	0.50	3	21.29	27
Core,Consult 2	Sliding Door	S	66.2	45	21	Category 2	3.78	14.10	2.70	0.50	3	20.71	27
Core,Kid Space	Wall	E	61.9	45	17	Category 2	9.99	21.09	2.70	0.50	3	18.88	25
Core,Living	Wall	E	64.4	45	19	Category 2	12.42	34.50	2.70	0.50	3	20.19	26
Core,Living	Wall	S	67.1	45	22	Category 2	13.95	34.50	2.70	0.50	3	23.40	29
Core,Living	Sliding Door	S	67.1	45	22	Category 2	6.30	34.50	2.70	0.50	3	19.94	26
Core, Seats-Waiting	Wall	W	63.2	50	13	Category 2	4.05	9.90	2.70	0.50	3	14.55	21
Core,Staff Office	Wall	S	68.2	45	23	Category 2	4.50	29.60	2.70	0.50	3	20.25	26
Core,Staff Office	Sliding Door	S	68.2	45	23	Category 2	6.30	29.60	2.70	0.50	3	21.71	28
Core,Staff Office	Wall	W	66.0	45	21	Category 2	6.48	29.60	2.70	0.50	3	19.63	26
Core,Waiting+Entry	Wall	W	67.3	50	17	Category 2	3.51	11.40	2.70	0.50	3	17.41	23
Core,Waiting+Entry	Door	W	67.3	50	17	Category 2	1.89	11.40	2.70	0.50	3	14.72	21
Core,Unit 1	Window	W	61.6	35	27	Category 3	3.24	9.00	2.70	0.50	3	27.39	33
Core,Unit 1	Wall	W	61.6	35	27	Category 3	4.86	9.00	2.70	0.50	3	29.15	35
Core,Unit 1	Window	S	64.4	35	29	Category 3	3.24	9.00	2.70	0.50	3	30.19	36
Core,Unit 1	Wall	S	64.4	35	29	Category 3	4.86	9.00	2.70	0.50	3	31.95	38
Core,Unit 3	Window	E	63.8	35	29	Category 3	3.24	9.00	2.70	0.50	3	29.59	36
Core,Unit 3	Wall	E	63.8	35	29	Category 3	4.86	9.00	2.70	0.50	3	31.35	37
Core,Unit 3	Window	W	63.6	35	29	Category 3	3.24	9.00	2.70	0.50	3	29.39	35
Core,Unit 3	Wall	W	63.6	35	29	Category 3	4.86	9.00	2.70	0.50	3	31.15	37
Core,Unit 3	Window	S	65.6	35	31	Category 3	3.24	9.00	2.70	0.50	3	31.39	37
Core,Unit 3	Wall	S	65.6	35	31	Category 3	4.86	9.00	2.70	0.50	3	33.15	39
Core,Unit 4	Window	Е	61.0	35	26	Category 3	3.24	9.00	2.70	0.50	3	26.79	33
Core,Unit 4	Wall	Е	61.0	35	26	Category 3	4.86	9.00	2.70	0.50	3	28.55	35
	140 - 1 -	S	64.6	35	30	Category 3	3.24	9.00	2.70	0.50	3	30.39	36
Core, Unit 4	Window	3	04.0	33	50		·						
Core,Unit 4 Core,Unit 4	Window	S	64.6	35	30	Category 3	4.86	9.00	2.70	0.50	3	32.15	38

It is concluded that -

- A noise model has been constructed to predict the propagation of noise from Johnston and Clark Streets onto the proposed buildings. The model includes shielding effects from surrounding buildings and topography.
- Residential facades within the development have been assessed against the façade criteria. The majority of facades meet the criteria and no specific acoustic construction is recommended for these facades (see Table 4.4).
- The required traffic noise reduction levels (TNR) for the non-residential component of the development, and for the residential facades that exceed the façade criteria, have been calculated to achieve the appropriate internal noise goals. The required traffic noise reductions (TNR) are between 13 and 31 dB and construction to Category 2 and 3 under AS3671 is required (depending on the façade, see Table 4.5):
 - Category 2: Standard construction, except for lightweight elements such as fibrous cement or metal cladding or all-glass facades. Windows, doors and other openings must be closed. TNR of approximately 25 dB(A) is expected.
 - Category 3: Special construction, chosen in accordance with Clause 3.4.
 Windows, doors and other openings must be closed. TNR between 25 and 35 dB(A) is expected.
- Calculated STC / Rw ratings are presented in Table 4.5.

It is recommended that the Rw requirements are confirmed once final detailed plans become available.

This report has been prepared by Tim Fitzroy of *Tim Fitzroy & Associates*. Noise modelling was undertaken by Matt Dever, *Noise Measurement Services*, *Brisbane*.

1- Agos

Tim FitzroyEnvironmental Health Scientist
Environmental Auditor

References

NSW EPA 2017 Noise Policy for Industry, Environment Protection Authority,

Sydney

NSW DECC, 2009 Noise Guide for Local Government, Department of Environment,

Climate Change & Water, Sydney

A/NZ Standards, 1987 Internal noise limits from Australian/New Zealand

Standard AS/NZS 2107:1987.

World Health Organisation 1999 Guidelines for Community Noise (Editor B

Berglund et al Geneva Switzerland 1999)

Copyright and Usage

©Tim Fitzroy and Associates 2023

The plans to this document were prepared for the exclusive use of Momentum Collective to accompany a Development Application to Richmond Valley Shire Council for the land described herein and shall not to be used for any other purpose or by any other person or corporation. Tim Fitzroy and Associates accepts no responsibility for any loss or damage suffered howsoever arising to any person or corporation who may use or rely on this document for a purpose other than that described above.

The contours shown on the plans to this document are derived from topographic sources and are suitable only for the purpose of this application. No reliance should be placed upon topographic information contained in this report for any purpose other than for the purposes of this application.

Plans accompanying this document may not be reproduced, stored or transmitted in any form unless this note is included.

Tim Fitzroy and Associates declares that does not have, nor expects to have, a beneficial interest in the subject project.

No extract of text of this document may be reproduced, stored or transmitted in any form without the prior consent of Tim Fitzroy and Associates.



A Development Plans





CA	SINO SITE - Drawing Regis	ster
eet No	Sheet Name	Issue Date

DD 0-	NOTES AND SITE 3Ds	
DD 0-01	DWG REGISTER + 3D	11Sept23
DD 0-02	3D OVERALL Views	11Sept23
DD 1-	SITE PLANS	
DD 1-01A	Site Context	11Sept23
DD 1-01B	Site Constraints A1	-
DD 1-01C	Site Constraints A3	-
DD 1-02	Site Plan A1	11Sept23
DD 1-03	Site Plan Part - CLARK ST	11Sept23
DD 1-04	Site Plan Part - JOHNSTON ST	11Sept23
DD 1-05	Site Plan Upper - JOHNSTON ST	11Sept23
DD 1-11	STAGING Option 2 Ground	-
DD 1-12	Site Plan STAGING Option 2	-
DD 1-21	COURTYARD Entries - C+C	-
DD 1-22	COURTYARD Entries - Detail	-
DD 1-31	COURTYARD Entries - CHIFF	-
DD 2-	BUILDING PLANS on SITE	
DD 2-01	Building Plans - CORE GROUND	11Sept23
DD 2-02	Building Plans - CORE UPPER	11Sept23
DD 2-11	CLUSTER (Core+Cluster)	11Sept23
DD 2-12	CLUSTER (CHIFF)	11Sept23
DD 3-	SITE SERVICES	
DD 3-01	Site Services A1	11Sept23
DD 3-02	Site Services A3	11Sept23
DD 4-	SITE ELEVATIONS	
DD 4-00	KEY Elev+Sect	11Sept23
DD 4-01	Site Elev South - JOHNSTON ST	11Sept23
DD 4-02A	Site Elevation East CLARK ST	11Sept23
DD 4-02B	Site Elevation East SHOPTOP	11Sept23
DD 4-03	Site Elevation - WEST	11Sept23
DD 4-04	Site Elevation - NORTH	11Sept23
DD 5-	SITE DETAILS	
DD 5-01	DETAIL Site Section Levels	11Sept23
DD 9-	SITE AREAS	
DD 9-01	SITE AREA Plan - GROUND	11Sept23
DD 9-02	SITE AREA Plan - UPPER	11Sept23
		·

REV SCHEDULE printed 11/09/2023 12:55:01 PM PROJECT CHIFF + Core+Cluster

SCALE Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale

10cm PROJECT NO. 0197:001-B

SHEET NAME Momentum Collective pur Johnston St + Clark St CASINO COLLEGE CASI DD 0-01 BASIX P1 11Sept23 ISSUE

Version: 1, Version Date: 15/02/2024

ARCHITECTURE abn 88 302 886 204

Document Set 15: 1906122 a . c o m . a u arch reg: 003401 (QLD) 8496 (NSW)











Peter McArdle & Teresa Wuersching

REV SCHEDULE printed 11/09/2023 12:55:14 PM PROJECT CHIFF + Core+Cluster

SCALE

10cm PROJECT NO. 0197:001-B

SHEET NAME Momentum Collective cnr Johnston St + Clark St CASINO

3D OVERALL Views DD 0-02 BASIX P1 11Sept23 ISSUE

ARCHITECTURE abn 88 302 886 204

Document Set 15: 1906122 a c o m . a u arch reg: 003401 (QLD) 8496 (NSW) Version: 1, Version Date: 15/02/2024

Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale



Johnston Street

Site Context Plan

1:500



REV SCHEDULE <u>printed</u>11/09/2023 12:55:17 PM

PROJECT CHIFF + Core+Cluster

Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale

1:500 10cm PROJECT NO. 0197:001-B

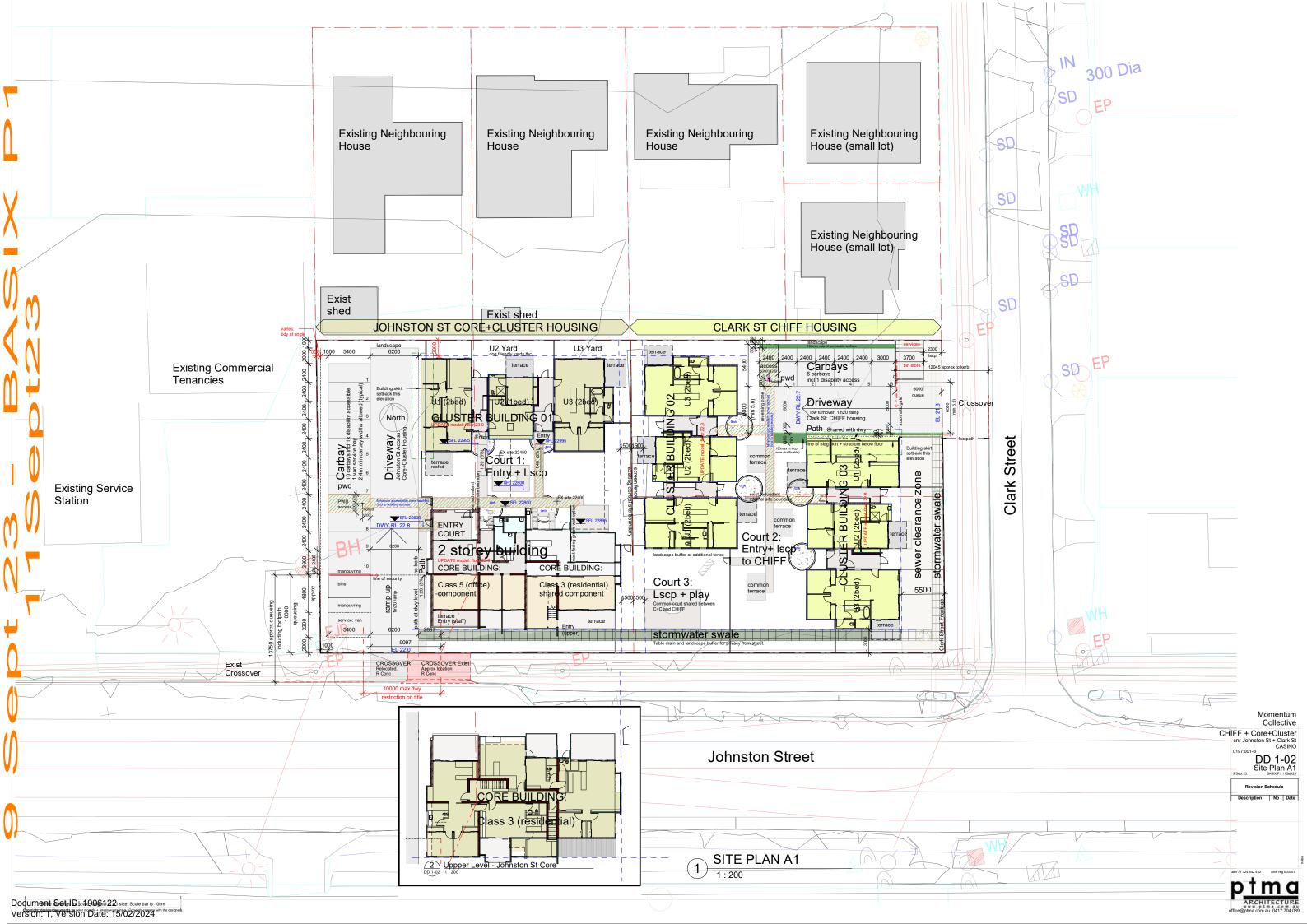
SCALE

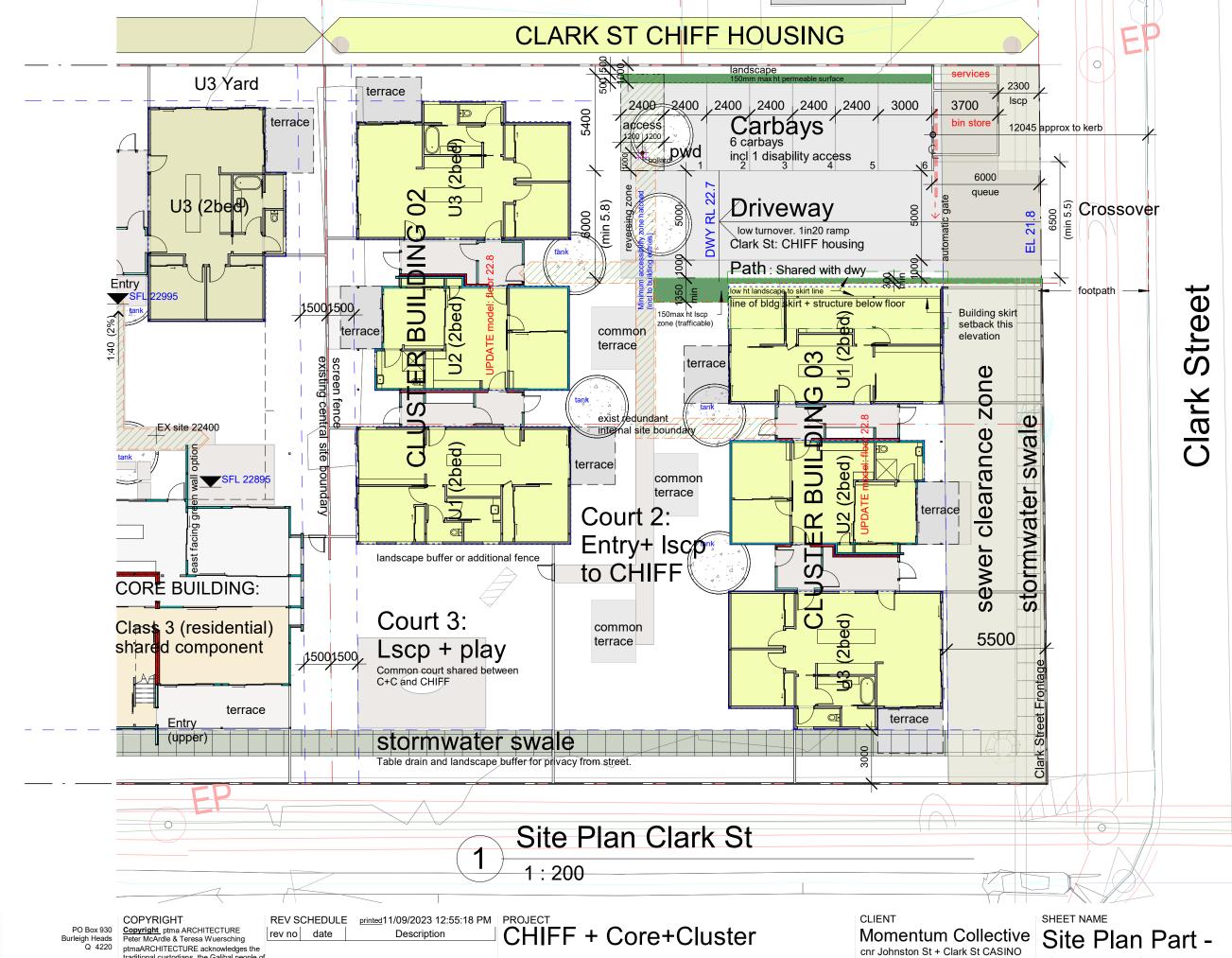
SHEET NAME Momentum Collective cnr Johnston St + Clark St CASINO Site Context

DD 1-01 ABASIX P1 11Sept23 ISSUE

ARCHITECTURE abn 88 302 886 204

Document Set 10: 1906122 a. c o m . a u arch reg: 003401 (QLD) 8496 (NSW) Version: 1, Version Date: 15/02/2024





ARCHITECTURE abn 88 302 886 204

ptmaARCHITECTURE acknowledges the

Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale

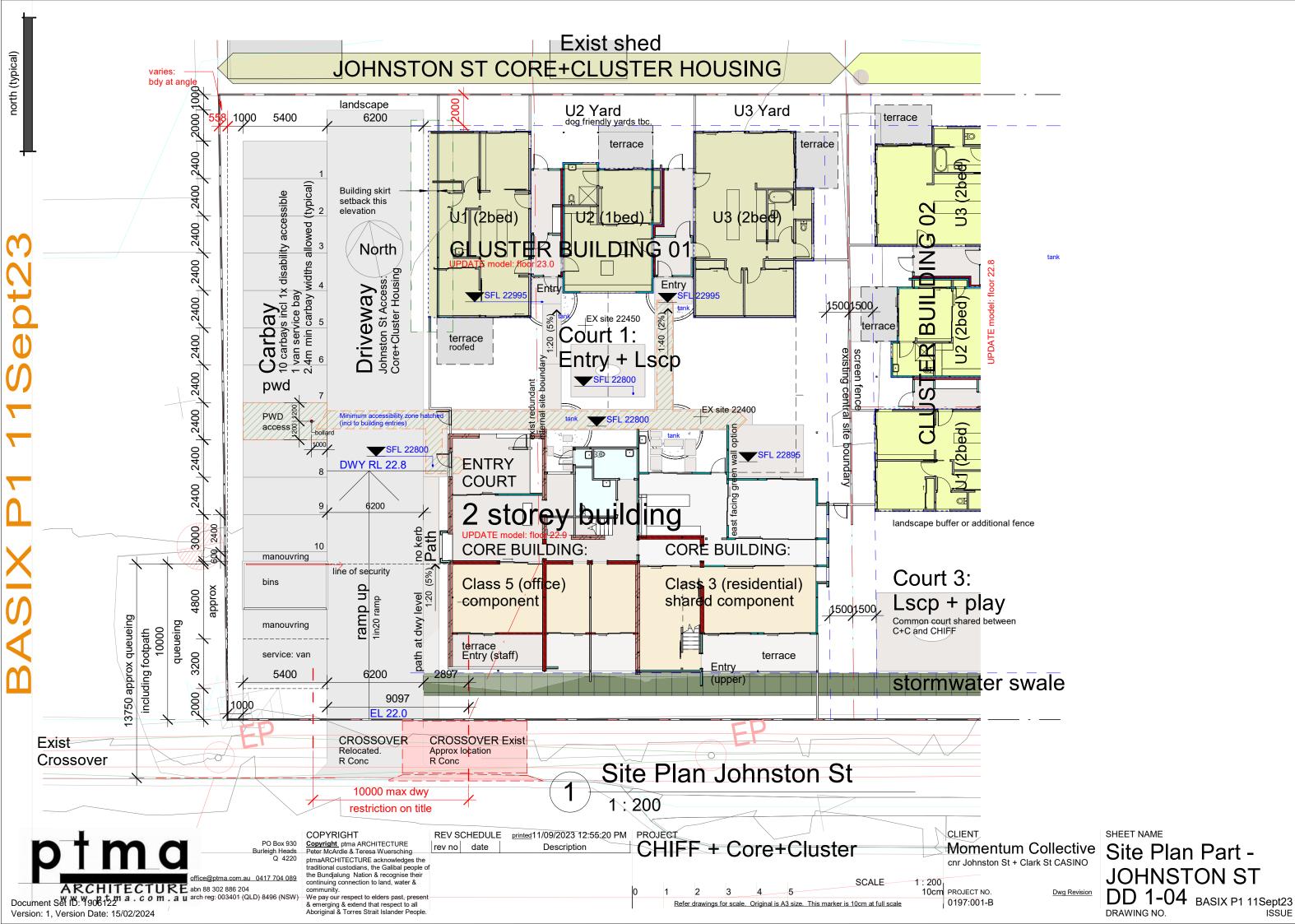
1:200

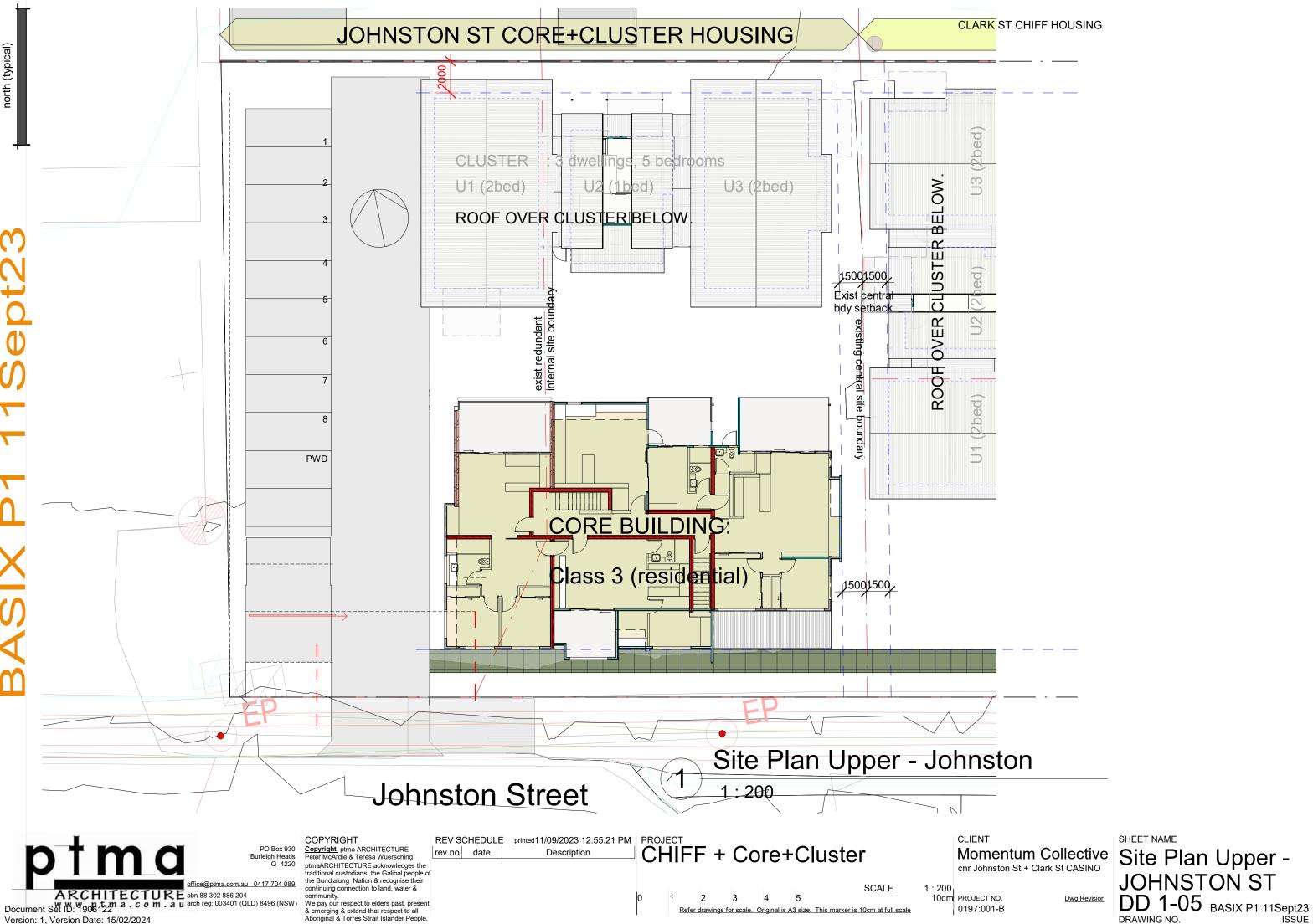
10cm PROJECT NO.

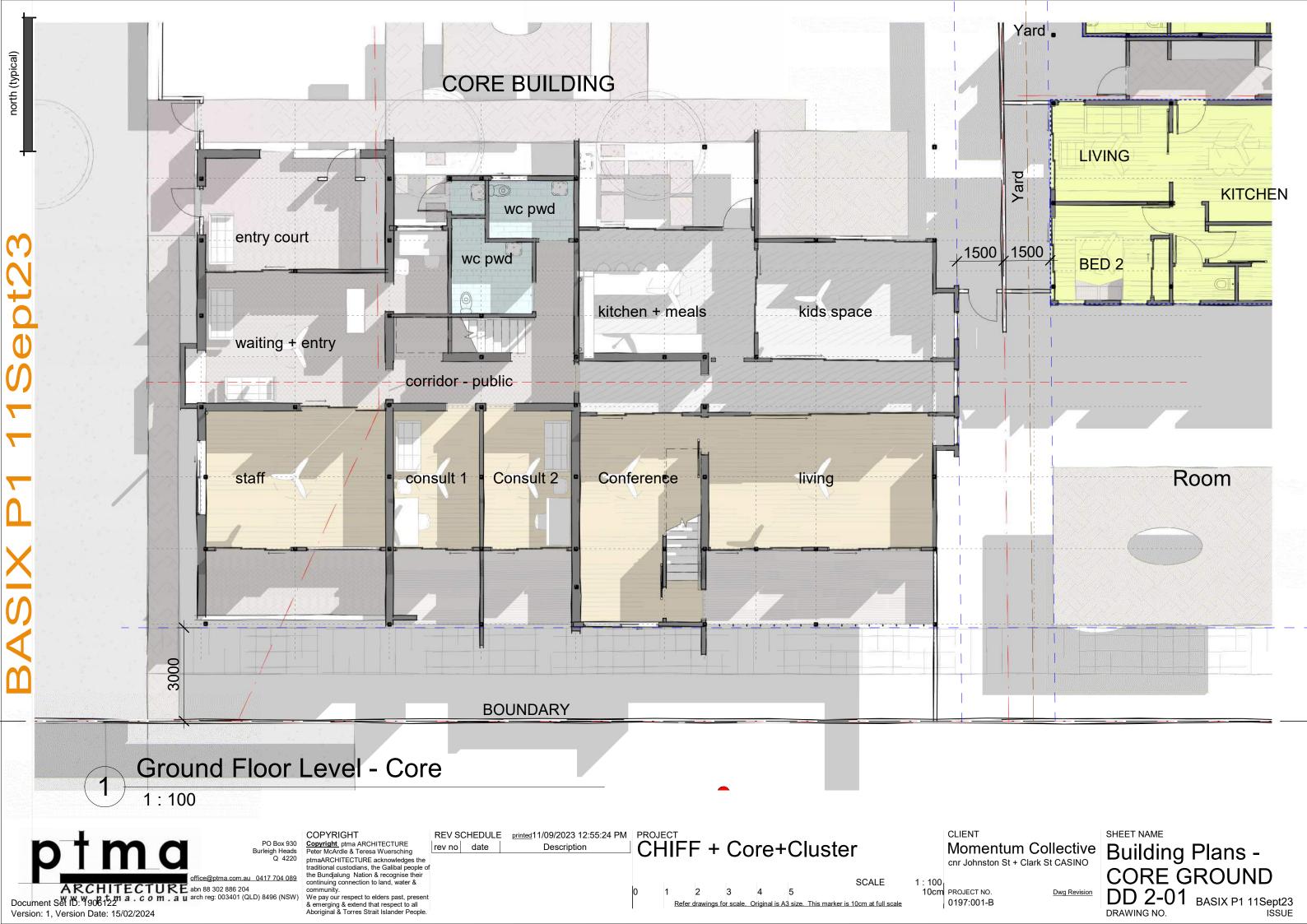
SCALE

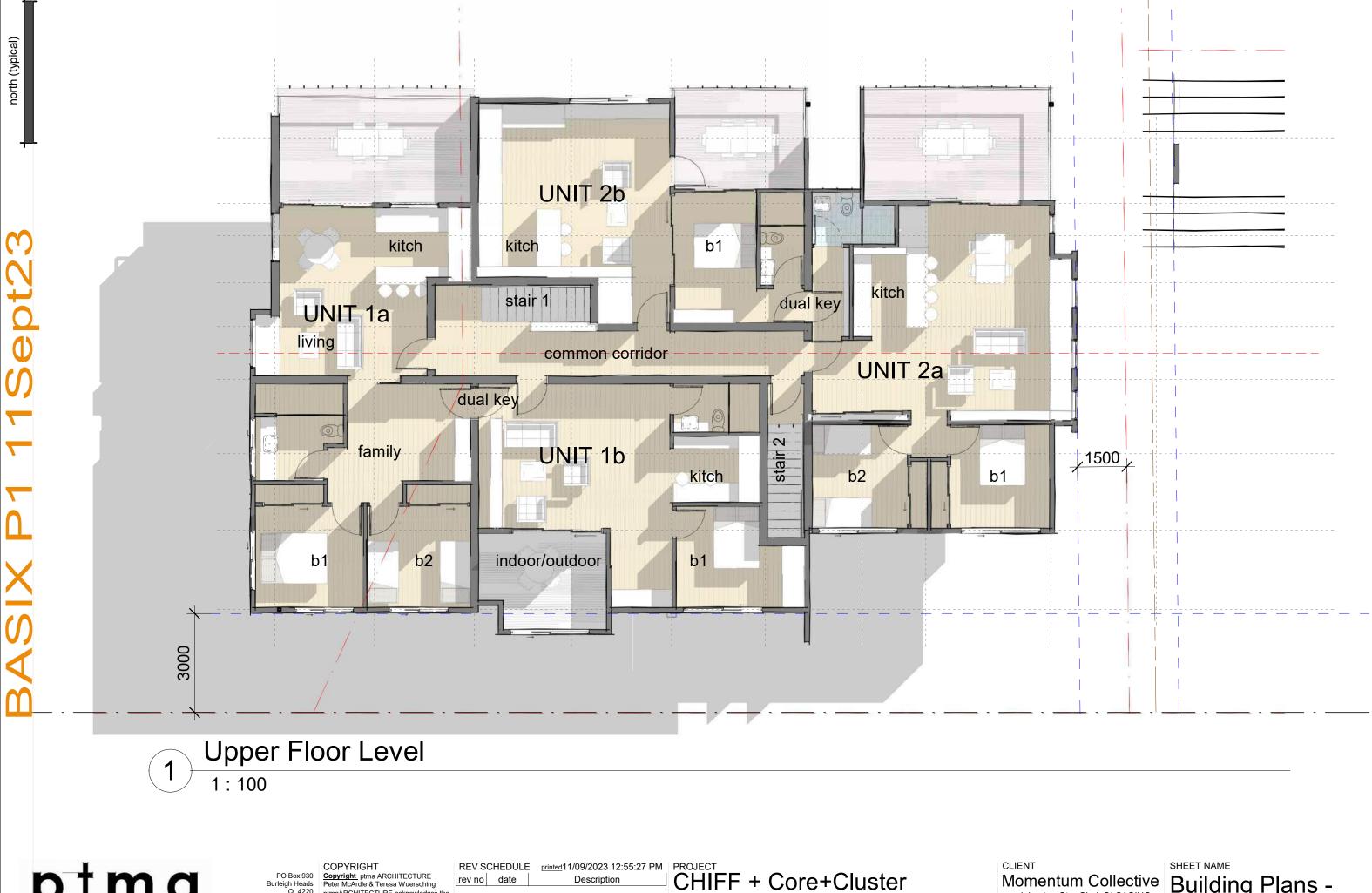
CLARK ST DD 1-03 BASIX P1 11Sept23 DRAWING NO.

Document Set ID: 1906122 m a . c o m . a u arch reg: 003401 (QLD) 8496 (NSW)









ARCHITECTURE abn 88 302 886 204

Document Set 15: 1906122 a. c o m . a u arch reg: 003401 (QLD) 8496 (NSW)

north (typical)

SCALE Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale

1: 100 10cm PROJECT NO.

Momentum Collective cnr Johnston St + Clark St CASINO

PROJECT NO. 0197:001-B

Dwg Revision DRAWING NO.

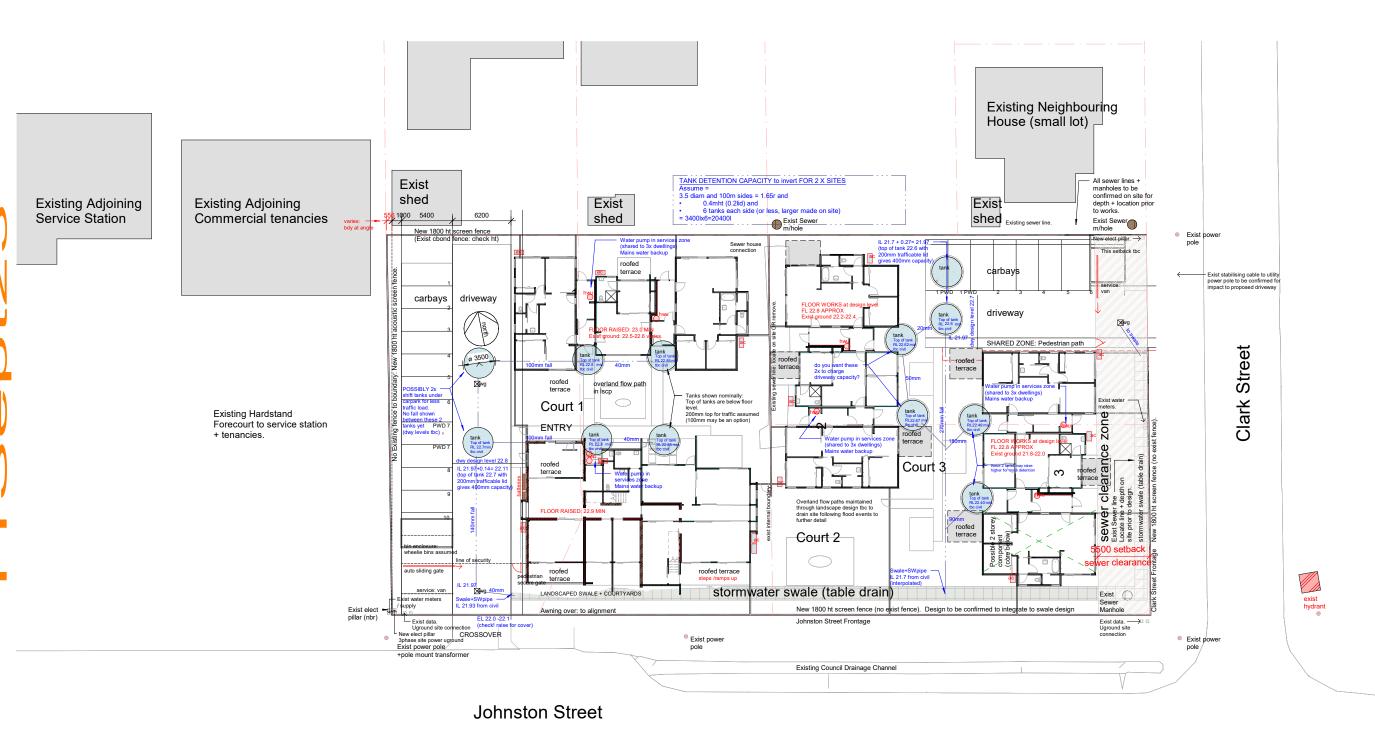
DNIET INAME

Building Plans
CORE UPPER

DD 2-02 BASIX P1 11Sept23

ISSUE





SITE SERVICES A1

1 : 200 @ A1 size. A3 is 50% (1:400)







Collective

CHIFF + Core+Cluster cnr Johnston St + Clark St CASINO

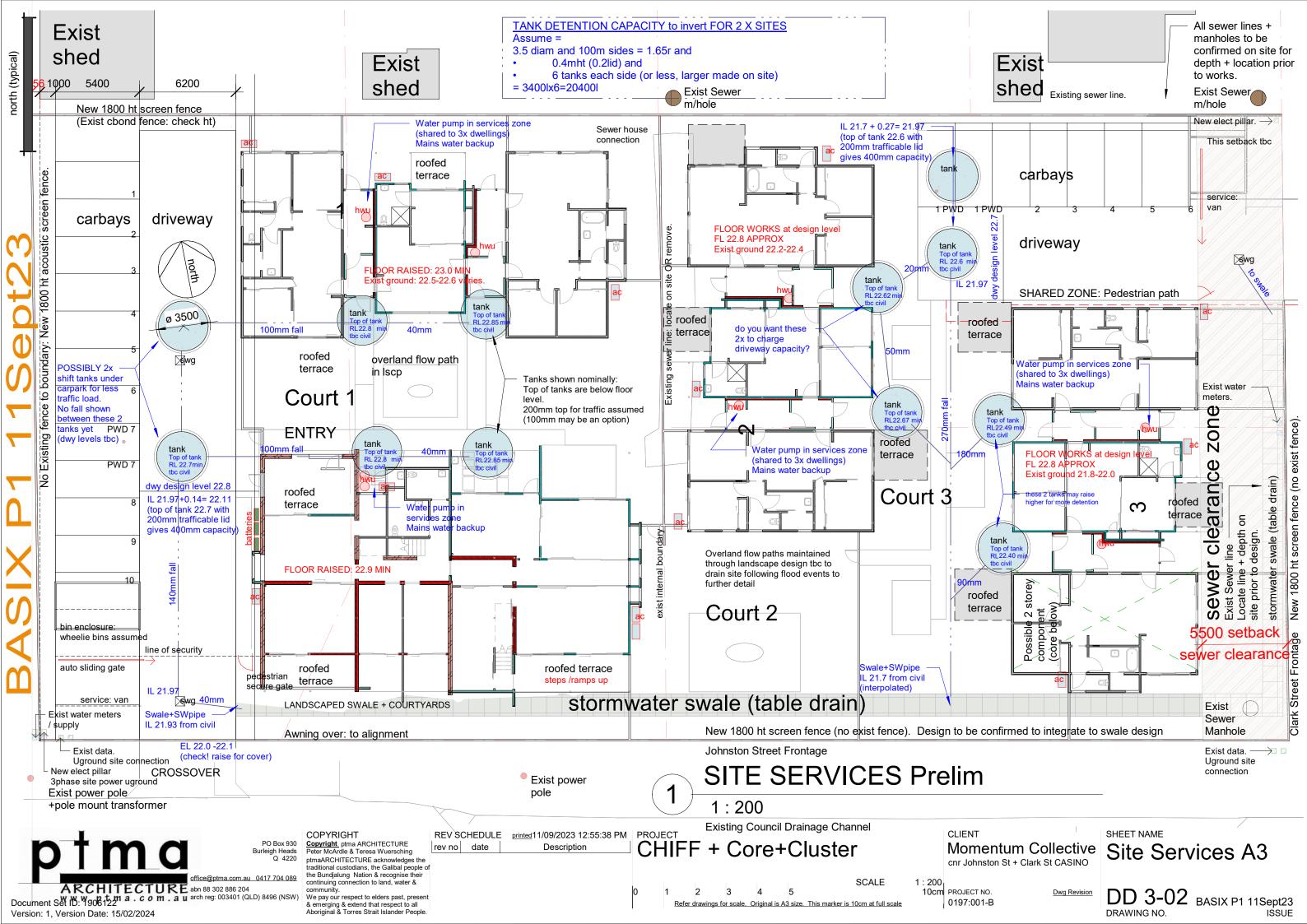
0197:001-B

DD 3-01

Site Services A1

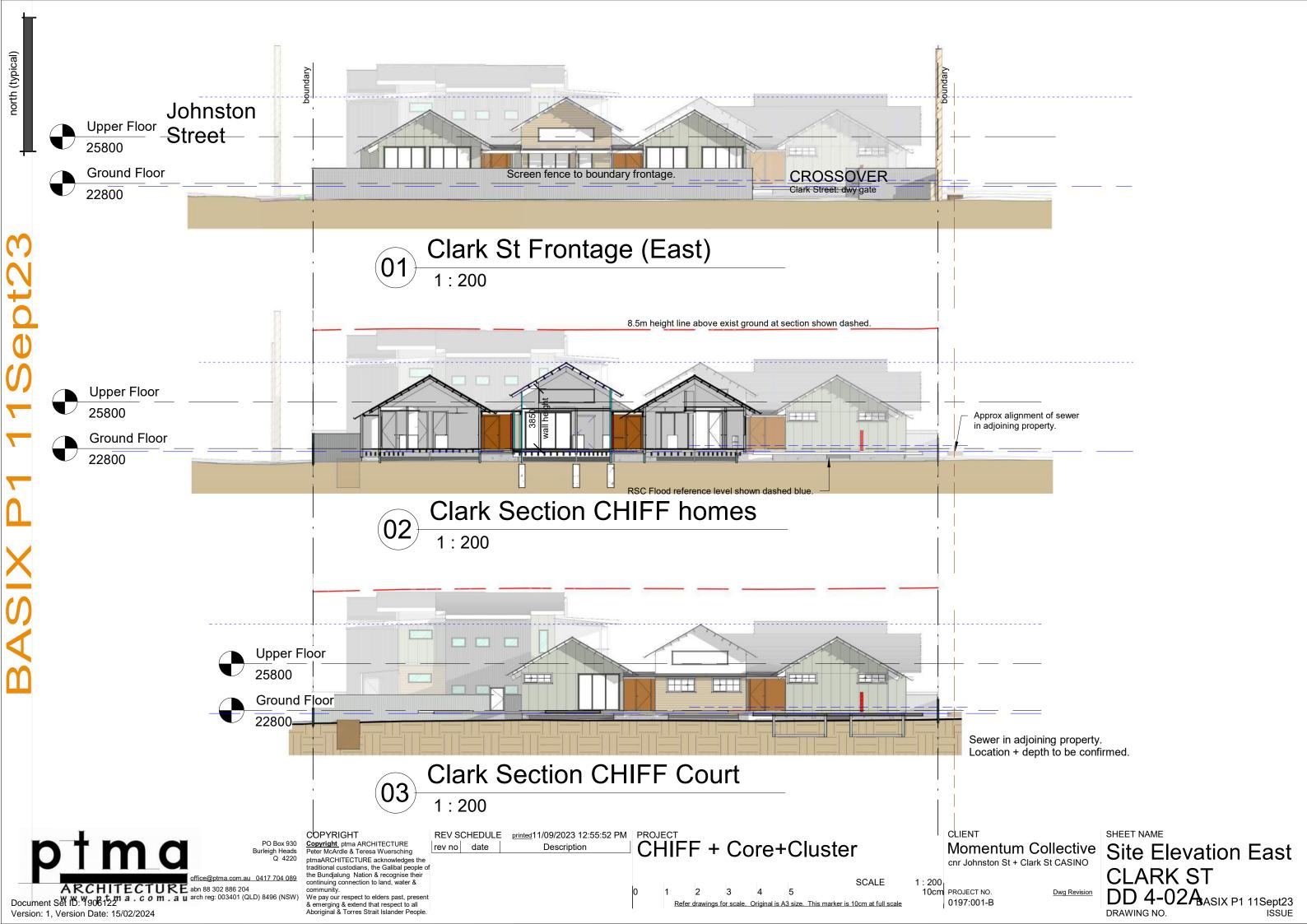
9 Sept 23

BASIK P1 11 Sept 23













REV SCHEDULE printed 11/09/2023 12:55:54 PM

CHIFF + Core+Cluster

Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale

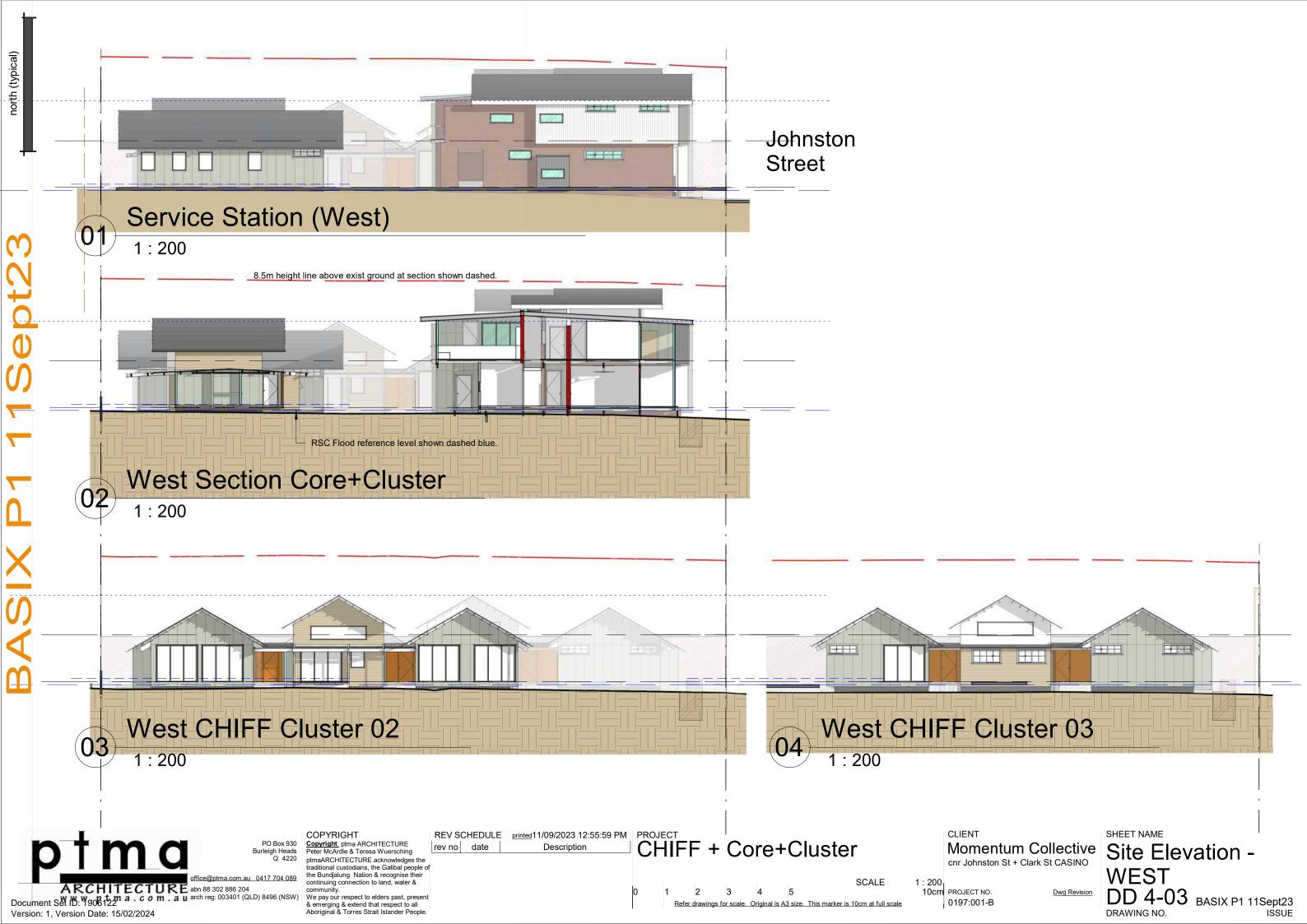
10cm PROJECT NO. 0197:001-B

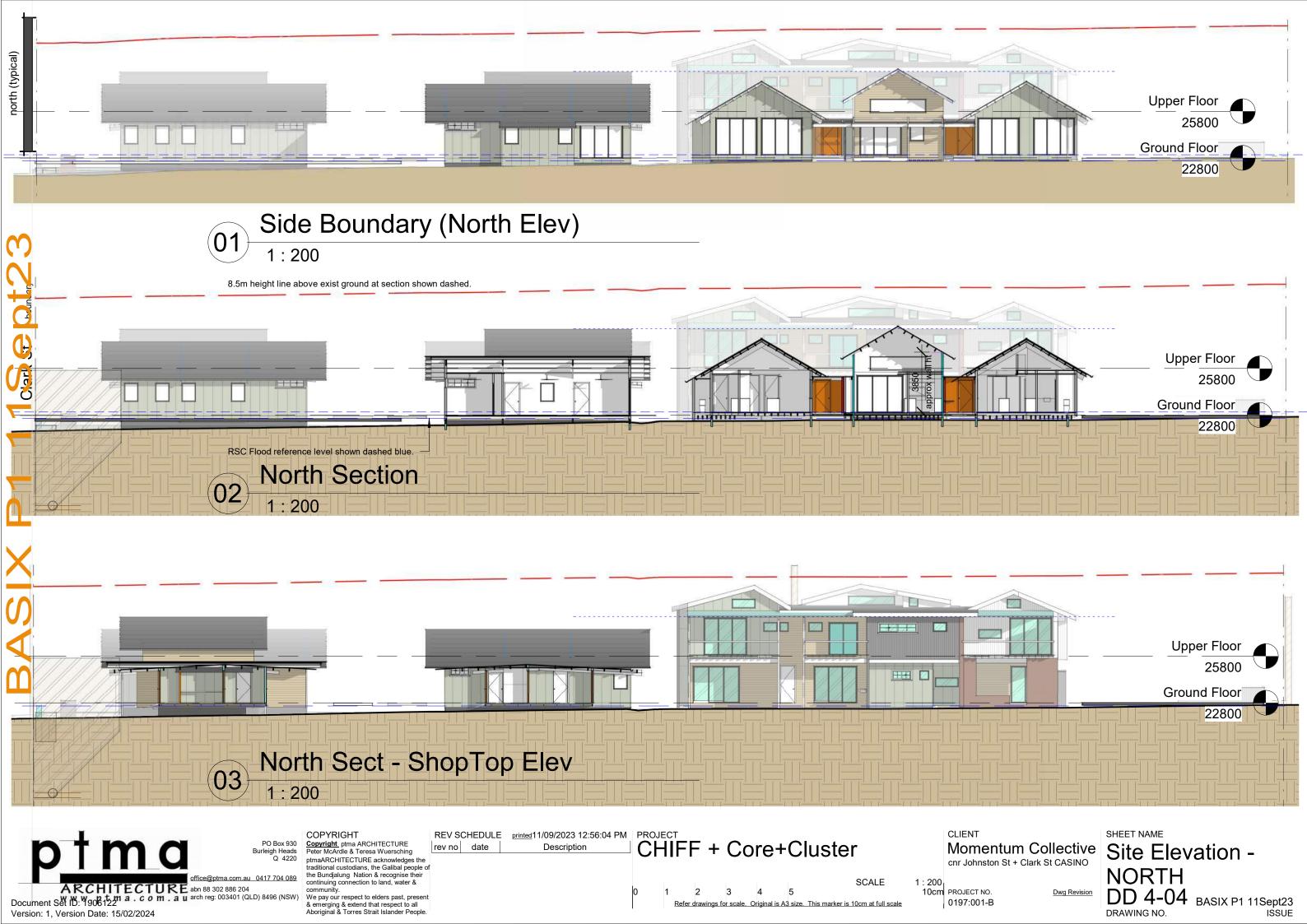
SCALE

SHEET NAME Momentum Collective cnr Johnston St + Clark St CASINO Site Elevation East SHOPTOP DD 4-02B_{ASIX P1 11Sept23} DRAWING NO.

ARCHITECTURE abn 88 302 886 204

Document Set 15: 1906122 a . c o m . a u arch reg: 003401 (QLD) 8496 (NSW) Version: 1, Version Date: 15/02/2024





8.5 m height line from existing site level at section 5500 Clark Sewer building clearance zone. ENTRY ZONE Street Structure to eng design including Floor levels to be finalised to 22750 suit freeboard to flood level depth to zone of influence. **Ground Floor Ground Floor** across site 22800 22800 Existing ground level to undercroft. Tanks to retain co In ground tanks op of tanks set to take Top of tanks set to take 22600 design flood level landscape surface finish landscape surface finish Stormwater swale Existing ground at buildings EX site 21900 EX site 22000 (table drain) if varies. Shown nominally Tanks interconnected. required to Clark St Detention capacity to be confirmed. Connection to swale via stormwater pipe IL 21.62 to 21.93 (varies) Refer civil engineer Line of existing sewer. Depth + alignment to be confirmed. Concept Levels - Clark St

REV SCHEDULE printed 11/09/2023 12:56:04 PM

<u>Copyright</u> ptma ARCHITECTURE Peter McArdle & Teresa Wuersching

ptmaARCHITECTURE acknowledges the

& emerging & extend that respect to all Aboriginal & Torres Strait Islander People. CHIFF + Core+Cluster

Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale

SCALE

1:100

10cm PROJECT NO.

0197:001-B

SHEET NAME

DRAWING NO.

Momentum Collective

cnr Johnston St + Clark St CASINO

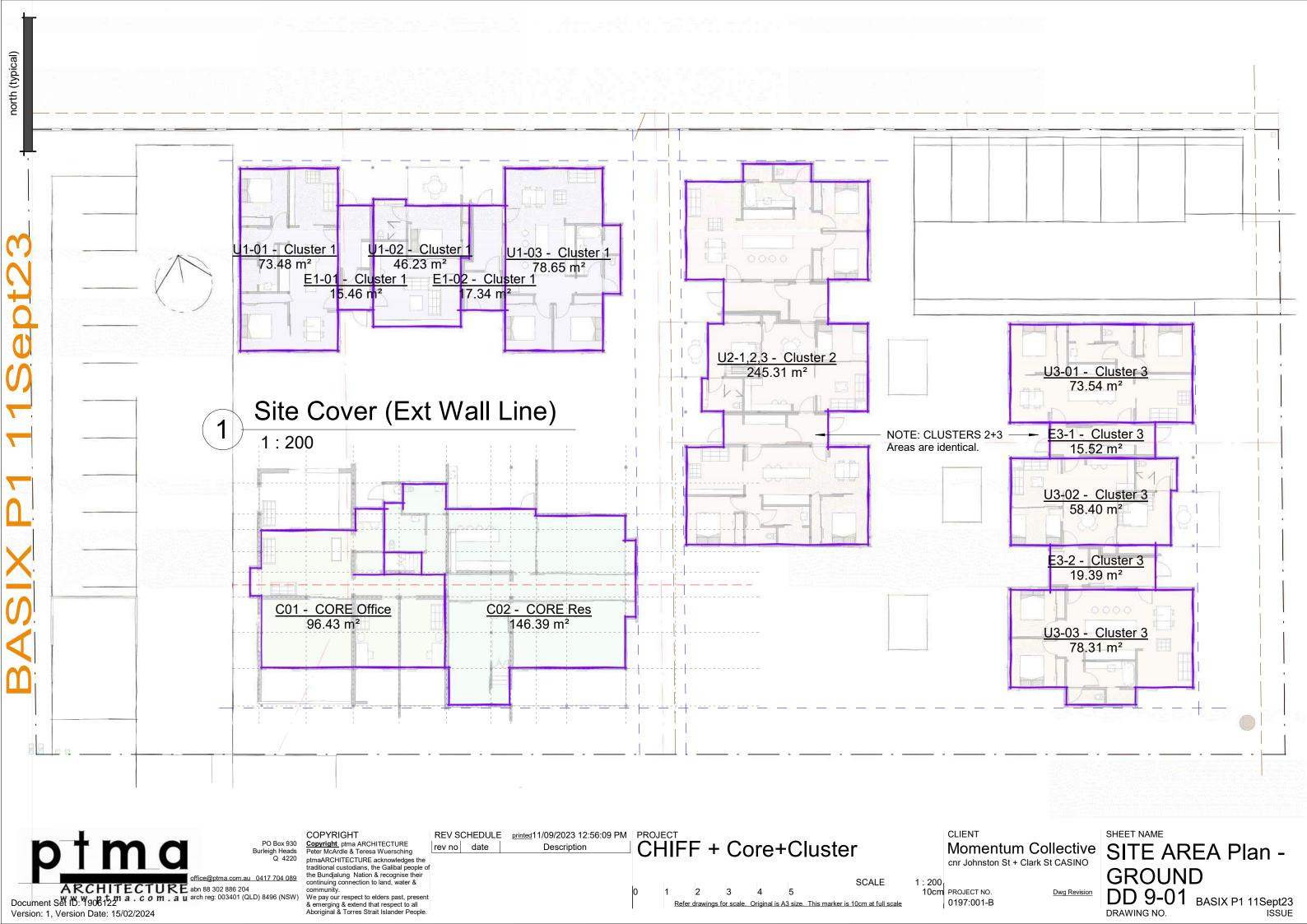
DETAIL Site

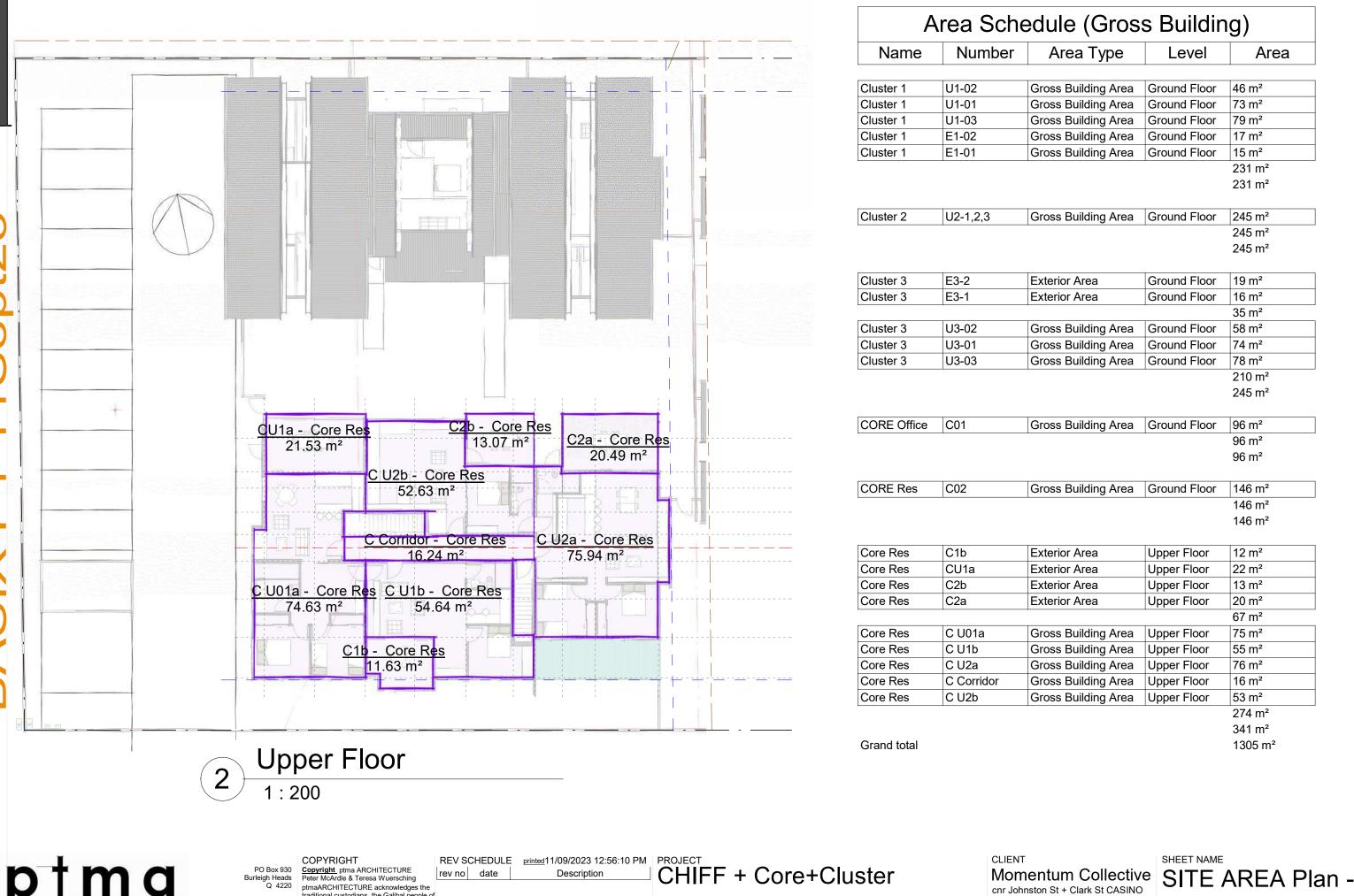
Section Levels
DD 5-01 BASIX P1 11Sept23

ARCHITECTURE abn 88 302 886 204

Document Set 15: 1906 122 a c o m . a u arch reg: 003401 (QLD) 8496 (NSW)

Version: 1, Version Date: 15/02/2024





ARCHITECTURE abn 88 302 886 204 Document Set ID: 1906122 a . c o m . a u arch reg: 003401 (QLD) 8496 (NSW) Version: 1, Version Date: 15/02/2024

north (typical)

& emerging & extend that respect to all Aboriginal & Torres Strait Islander People.

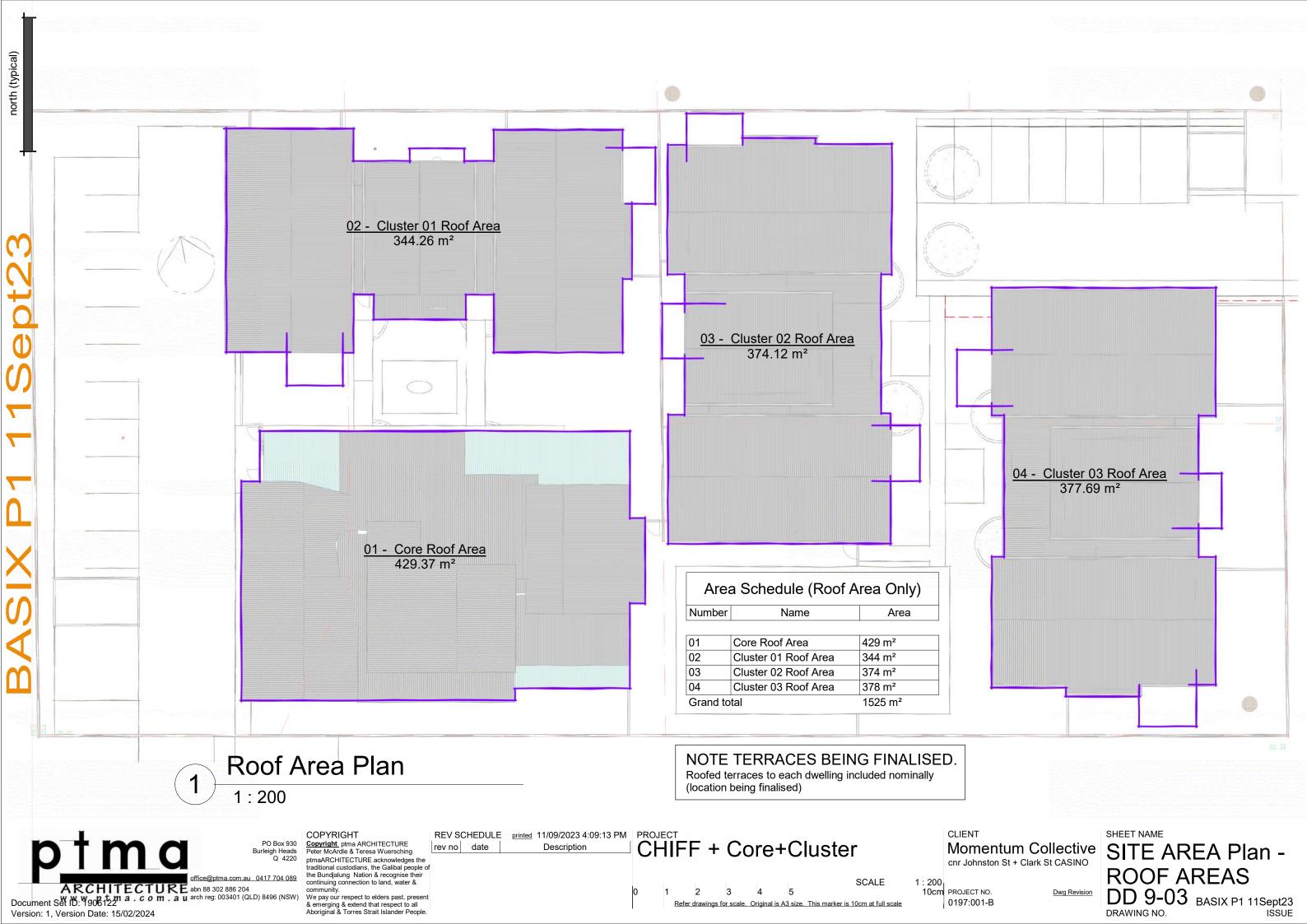
1:200 10cm PROJECT NO.

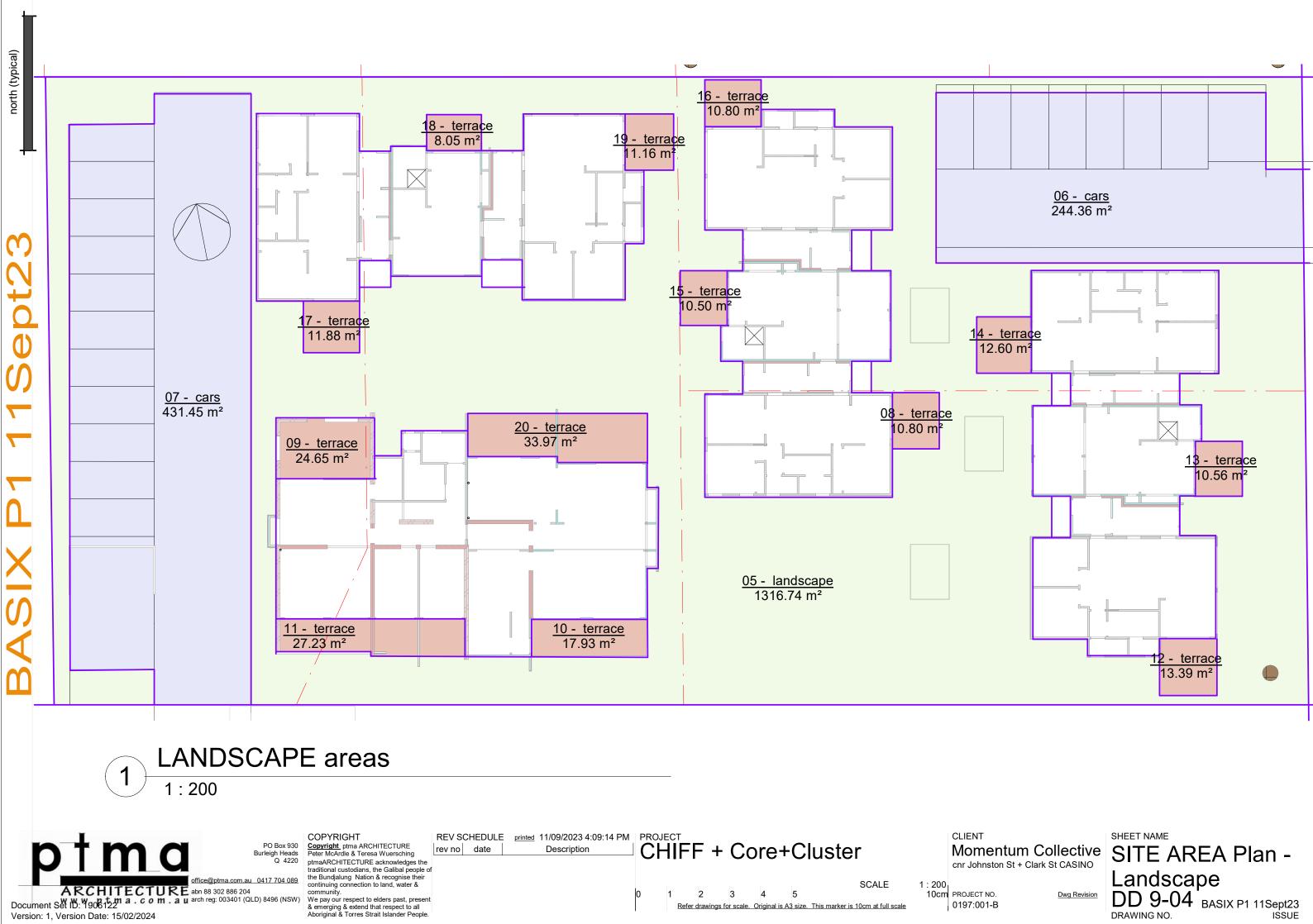
0197:001-B

SCALE

Refer drawings for scale. Original is A3 size. This marker is 10cm at full scale

UPPER DD 9-02 BASIX P1 11Sept23





B Noise Data



Noise Assessment Day Weighted Average Noise Levels 65.0 Day Period 7am to 6pm amenity criteria 60 dB(A) Urban Intrusiveness criteria (RBL+ 5) 50.3 dB(A) Interim Construction Noise Guidelines (RBL + 10) 55.3 dB(A) Average LaeqDay 07:00-18:00 58.1 dB(A) 55.0 Intrusivness criteria = 50.3dB(A) Date ABL RBL 50.0 Tuesday 59.2 46 1 Nednesda: 9/08/202 59.1 44.6 hursday 58.2 46.4 11/08/2023 57.9 45.8 ridav 45.3 56.6 55.2 44.2 Saturday 13/08/202 39.5 Sunday Monday 14/08/2023 57.2 47.6 Tuesday 15/08/2023 61.0 44.8 10^((L_{Aeq(15 minute)}/10)) period sums hrly sums hrly Laeq Date 8/08/2023 1:30:00 PM 8/08/2023 1:45:00 PM 58.1 48.2 46.1 645654 8/08/2023 2:00:00 PM 56.9 47.8 46.9 489779 1697774 56.3 2:15:00 PM 44.4 47 416869 8/08/2023 56.2 2:30:00 PM 47.8 8/08/2023 58.5 48 2 707946 8/08/2023 2:45:00 PM 56 48.2 47.9 398107 8/08/2023 3:00:00 PM 58.2 49.1 48.2 660693 2114644 57.2 8/08/2023 3:15:00 PM 61.8 53.8 48.2 1513561 8/08/2023 3:30:00 PM 62.4 54.8 48.2 1737801 48.7 10 8/08/2023 3:45:00 PM 60 49.6 1000000 8/08/2023 49 1 8132752 63.1 11 4:00:00 PM 60.3 51 1071519 12 8/08/2023 4:15:00 PM 58.3 49.2 49.2 676083 13 8/08/2023 4:30:00 PM 61.4 48.7 49.5 1380384 14 8/08/2023 4:45:00 PM 58.9 46.9 49.6 776247 15 5:00:00 PM 57.7 49.5 50.6 588844 3904234 59.9 8/08/2023 16 51 8/08/2023 5:15:00 PM 61.6 53.1 1445440 17 8/08/2023 5:30:00 PM 58.3 50.6 53.1 676083 18 5:45:00 PM 57.4 47 53.8 8/08/2023 549541 3259907 6:00:00 PM 15704273 59.1 19 8/08/2023 46.1 54.8 407380 42.8 9/08/2023 7:15:00 AM 59.1 51.5 812831 9/08/2023 7:30:00 AM 60.1 52.7 43.7 1023293 9/08/2023 7:45:00 AM 66.7 53.5 44.6 4677351 44.6 9/08/2023 8:00:00 AM 60.3 52 1071519 6513475 62.1 9/08/2023 8:15:00 AM 59.9 51.2 44.8 977237 45.1 9/08/2023 8:30:00 AM 58.6 50.1 724436 9/08/2023 8:45:00 AM 58.2 48.6 45.5 660693 9/08/2023 9:00:00 AM 58.3 49.6 45.5 676083 3433886 59.3 9/08/2023 9:15:00 AM 57.1 47.8 45.6 512861 10 9/08/2023 9:30:00 AM 57.8 47.9 45.7 602560 9:45:00 AM 57.8 47.9 46 602560 11 9/08/2023 12 57.3 46.1 537032 2394064 57.8 9/08/2023 10:00:00 AM 44.6 46.2 13 9/08/2023 10:15:00 AM 58.1 47 645654 14 9/08/2023 10:30:00 AM 58.1 46 46.3 645654 15 9/08/2023 10:45:00 AM 57.9 45.6 46.4 616595 16 9/08/2023 11:00:00 AM 57.2 47.4 46.5 524807 2444935 57.9 17 9/08/2023 11:15:00 AM 57.4 47.3 46.6 549541 18 9/08/2023 11:30:00 AM 56.4 46.3 46.7 436516 19 9/08/2023 11:45:00 AM 57.2 44 6 46.8 524807 20 9/08/2023 12:00:00 PM 59.9 45.7 47 977237 2035672 57.1 21 9/08/2023 12:15:00 PM 58.3 45.1 47.3 676083 22 9/08/2023 12:30:00 PM 59.8 46.7 47.3 954993 12:45:00 PM 44.8 47.4 457088 23 9/08/2023 56.6 24 9/08/2023 1:00:00 PM 57.5 47.8 47.4 562341 3065401 58.8 25 9/08/2023 1:15:00 PM 58 47.4 47.4 630957 56.8 43.7 47.6 478630 26 9/08/2023 1:30:00 PM 57.4 27 9/08/2023 1:45:00 PM 46.6 47.8 549541 28 9/08/2023 2:00:00 PM 57.4 46.8 47.8 549541 2221470 57.4 29 9/08/2023 2:15:00 PM 57.4 45.5 47.8 549541 30 9/08/2023 2:30:00 PM 57 45.5 47.8 501187 9/08/2023 2:45:00 PM 65.7 47.9 3715352

Document Set ID: 1906122

	9/08/2023	3:00:00 PM	59.4	48.5	47.9			5315621 61.2
	9/08/2023	3:15:00 PM	57.9	47.8	48.2			3313021 01.2
	9/08/2023	3:30:00 PM	55.8	47.8	48.3			
	9/08/2023	3:45:00 PM	56	46.5	48.5			
	9/08/2023	4:00:00 PM	55.2	46.2	48.5			0 #NUM!
	9/08/2023	4:15:00 PM	56.1	46.4	48.6			·
	9/08/2023	4:30:00 PM	56.8	47.6	49.6			
32	9/08/2023	4:45:00 PM	57.5	46.1	50.1	562341		
33	9/08/2023	5:00:00 PM	56.9	48.5	51.2	489779		562341 51.5
34	9/08/2023	5:15:00 PM	55.9	48.3	51.5	389045		
35	9/08/2023	5:30:00 PM	58.8	47.4	52	758578		
36	9/08/2023	5:45:00 PM	55.6	47.3	52.7	363078		
37	9/08/2023	6:00:00 PM	54	42.8	53.5	251189	30238533	2000480 57.0
1	10/08/2023	7:15:00 AM	60.6	52.6	45.5	1148154		
2	10/08/2023	7:30:00 AM	60.3	52.2	45.6	1071519		
3	10/08/2023	7:45:00 AM	60.4	52.7	46.1	1096478		
4	10/08/2023	8:00:00 AM	60	51.7	46.4	1000000		3316151 59.2
5	10/08/2023	8:15:00 AM	59.5	51.5	46.6	891251		
6	10/08/2023	8:30:00 AM	59.8	52.6	46.7	954993		
7	10/08/2023	8:45:00 AM	58.7	48.9	46.7	741310		0507554
8	10/08/2023	9:00:00 AM	57.6	49.2	46.9	575440		3587554 59.5
9	10/08/2023	9:15:00 AM	57.9	48.1	47.2	616595		
10	10/08/2023	9:30:00 AM	57.4	46.7	47.5	549541		
11	10/08/2023	9:45:00 AM	58.3	46.4	47.6	676083		0447650 57.0
12	10/08/2023	10:00:00 AM	57.1	45.6	47.6	512861		2417659 57.8
13	10/08/2023 10/08/2023	10:15:00 AM	58 56.3	47.8	47.8 48.1	630957 426580		
14		10:30:00 AM		45.5				
15 16	10/08/2023	10:45:00 AM	59.6 56.8	47.5 46.6	48.2 48.2	912011 478630		2482409 57.9
17	10/08/2023 10/08/2023	11:00:00 AM 11:15:00 AM	57.3	46.7	48.2	537032		2462409 57.9
18	10/08/2023	11:15:00 AM	57.3 57	46.7	48.4	501187		
19	10/08/2023	11:45:00 AM	56.8	46.1	48.4	478630		
20	10/08/2023	12:00:00 PM	56.9	47.2	48.7	489779		1995479 57.0
21	10/08/2023	12:00:00 PM	57	49.2	48.9	501187		1995479 57.0
21	10/08/2023	12:15:00 PM 12:30:00 PM	56.7	48.2	49.2	501167		
	10/08/2023	12:45:00 PM	57.2	50.4	49.2			
	10/08/2023	1:00:00 PM	57.8	48.2	49.5			990966 53.9
	10/08/2023	1:15:00 PM	58.4	51.1	49.5			990900 33.9
22	10/08/2023	1:30:00 PM	58.6	51.6	49.7	724436		
23	10/08/2023	1:45:00 PM	58	49.5	49.9	630957		
24	10/08/2023	2:00:00 PM	58.6	52.9	50.1	724436		1355393 55.3
25	10/08/2023	2:15:00 PM	57.7	51.6	50.4	588844		
26	10/08/2023	2:30:00 PM	57.7	51.4	50.5	588844		
27	10/08/2023	2:45:00 PM	56.3	49.9	51.1	426580		
	10/08/2023	3:00:00 PM	57.3	50.5	51.2			2328703 57.7
	10/08/2023	3:15:00 PM	57.8	51.2	51.4			
	10/08/2023	3:30:00 PM	57.8	50.1	51.5			
	10/08/2023	3:45:00 PM	57.8	51.6	51.6			
28	10/08/2023	4:00:00 PM	58.4	52.2	51.6	691831		0 #NUM!
29	10/08/2023	4:15:00 PM	57.3	49.7	51.6	537032		<u> </u>
30	10/08/2023	4:30:00 PM	56.1	47.6	51.7	407380		
31	10/08/2023	4:45:00 PM	56.3	48.7	52.2	426580		
32	10/08/2023	5:00:00 PM	59	47.6	52.2	794328		2062823 57.1
33	10/08/2023	5:15:00 PM	59.2	49.5	52.6	831764		-
34	10/08/2023	5:30:00 PM	57.8	48.2	52.6	602560		
35	10/08/2023	5:45:00 PM	57.7	48.4	52.7	588844		
36	10/08/2023	6:00:00 PM	57.1	48.4	52.9	512861	23867493	2817495 58.5
1	11/08/2023	7:15:00 AM	59.5	52	42.7	891251		
2	11/08/2023	7:30:00 AM	59.6	53.4	44.9	912011		
3	11/08/2023	7:45:00 AM	60.1	52.7	45.8	1023293		
4	11/08/2023	8:00:00 AM	59.3	52.7 52.1	45.8	851138		2826555 58.5
5	11/08/2023	8:15:00 AM	59.6	53.2	46.3	912011		2020000 30.0
6	11/08/2023	8:30:00 AM	58.7	51.7	46.8	741310		
7	11/08/2023	8:45:00 AM	58.3	51.7	40.6	676083		
8	11/08/2023	9:00:00 AM	60.1	51.5	47.2	1023293		3180542 59.0
9	11/08/2023	9:15:00 AM	58.5	51.3	47.2	707946		3.30042 33.0
10	11/08/2023	9:30:00 AM	58.5	49.1	47.2	707946		
11	11/08/2023	9:45:00 AM	56.8	51.2	47.3	478630		
12	11/08/2023	10:00:00 AM	57.4	49.4	47.4	549541		2917815 58.6
13	11/08/2023	10:15:00 AM	57.5	50.2	47.6	562341		20.7010
.5	,00,2020		31.0	50.2	71.0	332071		

Document Set ID: 1906122

14	11/08/2023	10:30:00 AM	56.3	47	48.1	426580			
15	11/08/2023	10:45:00 AM	56.6	49.7	48.1	457088			
								4005550	57.0 I
16	11/08/2023	11:00:00 AM	59.6	51	48.8	912011		1995550	57.0
17	11/08/2023	11:15:00 AM	57.4	50.3	49.1	549541			
18	11/08/2023	11:30:00 AM	56.7	49.4	49.1	467735			
19	11/08/2023	11:45:00 AM	56.9	49.6	49.1	489779			
20	11/08/2023	12:00:00 PM	55.6	46.3	49.4	363078		2419066	57.8
21	11/08/2023	12:15:00 PM	57.3	47.2	49.4	537032			
22	11/08/2023	12:30:00 PM	55.3	45.8	49.6	338844			
23	11/08/2023	12:45:00 PM	56.2	47.2	49.7	416869		i	
24	11/08/2023	1:00:00 PM	58.3	48.1	49.7	676083		1655823	56.2
25	11/08/2023	1:15:00 PM	56.9	47.4	50.1	489779			
26	11/08/2023	1:30:00 PM	56.4	47.6	50.2	436516			
27	11/08/2023	1:45:00 PM	56.8	47.2	50.3	478630			
28	11/08/2023	2:00:00 PM	57.2	47.3	50.5	524807		2081008	57.2
								2001000	31.2
29	11/08/2023	2:15:00 PM	56.4	45.8	50.8	436516			
30	11/08/2023	2:30:00 PM	56.8	49.1	51	478630			
31	11/08/2023	2:45:00 PM	57.8	50.8	51	602560			
32	11/08/2023	3:00:00 PM	58.5	51.1	51	707946		2042513	57.1
33	11/08/2023	3:15:00 PM	60.3	51.9	51.1	1071519			
34	11/08/2023	3:30:00 PM	58.6	51.9	51.2	724436			
35									
	11/08/2023	3:45:00 PM	56.8	46.8	51.3	478630		1	
36	11/08/2023	4:00:00 PM	57.6	49.7	51.5	575440		2982531	58.7
37	11/08/2023	4:15:00 PM	57.3	50.1	51.7	537032			
	11/08/2023	4:30:00 PM	58.4	51	51.9				
	11/08/2023	4:45:00 PM	58	50.5	51.9				
	11/08/2023	5:00:00 PM	57.1	48.8	52			1112472	54.4
	11/08/2023	5:15:00 PM	56.8	48.1	52.1			1112472	04.4
	11/08/2023	5:30:00 PM	57.8	49.1	52.7				
38	11/08/2023	5:45:00 PM	55.5	44.9	53.2	354813			
39	11/08/2023	6:00:00 PM	54.5	42.7	53.4	281838	23850526	354813	49.5
1	12/08/2023	7:15:00 AM	58.2	45.5	43.4	660693			
2	12/08/2023	7:30:00 AM	55.8	45.4	43.6	380189			
3	12/08/2023	7:45:00 AM	56.1	47.1	44.1	407380			
-		8:00:00 AM						4.440000	55 A
4	12/08/2023		57.1	47.8	44.2	512861		1448263	55.6
5	12/08/2023	8:15:00 AM	57.4	47.8	44.8	549541			
5 6						549541 436516			
	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM	57.4 56.4	47.8 47.7	44.8 45	436516			
6 7	12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM	57.4 56.4 56.7	47.8 47.7 47.4	44.8 45 45.4	436516 467735			56 Q
6 7 8	12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM	57.4 56.4 56.7 55.8	47.8 47.7 47.4 47.1	44.8 45 45.4 45.5	436516 467735 380189			56.9
6 7 8 9	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM	57.4 56.4 56.7 55.8 59	47.8 47.7 47.4 47.1 45.9	44.8 45 45.4 45.5 45.6	436516 467735 380189 794328			56.9
6 7 8 9 10	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM	57.4 56.4 56.7 55.8 59 57.2	47.8 47.7 47.4 47.1 45.9 46.6	44.8 45.4 45.5 45.6 45.7	436516 467735 380189 794328 524807			56.9
6 7 8 9 10 11	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 9:45:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5	47.8 47.7 47.4 47.1 45.9 46.6 48.3	44.8 45 45.4 45.5 45.6 45.7 45.9	436516 467735 380189 794328 524807 562341		1966653	
6 7 8 9 10	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM	57.4 56.4 56.7 55.8 59 57.2	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4	44.8 45.4 45.5 45.6 45.7	436516 467735 380189 794328 524807 562341 436516		1966653	56.9 57.5
6 7 8 9 10 11	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 9:45:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5	47.8 47.7 47.4 47.1 45.9 46.6 48.3	44.8 45 45.4 45.5 45.6 45.7 45.9	436516 467735 380189 794328 524807 562341		1966653	
6 7 8 9 10 11 12	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 9:45:00 AM 10:00:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8	44.8 45 45.4 45.5 45.6 45.7 45.9 45.9	436516 467735 380189 794328 524807 562341 436516 426580		1966653	
6 7 8 9 10 11 12 13	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3	44.8 45 45.4 45.5 45.6 45.7 45.9 46.1 46.3	436516 467735 380189 794328 524807 562341 436516 426580 512861		1966653	
6 7 8 9 10 11 12 13 14	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM 10:30:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4	44.8 45 45.4 45.5 45.6 45.7 45.9 46.1 46.3	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779		1966653	57.5
6 7 8 9 10 11 12 13 14 15	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:45:00 AM 9:00:00 AM 9:15:00 AM 9:45:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 10:45:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6	44.8 45 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030		1966653	
6 7 8 9 10 11 12 13 14 15 16	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 9:30:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 10:30:00 AM 11:00:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844		1966653	57.5
6 7 8 9 10 11 12 13 14 15 16 17	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:15:00 AM 11:15:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3	44.8 45 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380		1966653	57.5
6 7 8 9 10 11 12 13 14 15 16 17 18	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 9:45:00 AM 9:00:00 AM 9:30:00 AM 9:45:00 AM 10:00:00 AM 10:30:00 AM 10:45:00 AM 10:45:00 AM 11:15:00 AM 11:30:00 AM 11:30:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187		1966653 2261666 1865736	57.5
6 7 8 9 10 11 12 13 14 15 16 17	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:15:00 AM 11:15:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3	44.8 45 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380		1966653 2261666 1865736	57.5
6 7 8 9 10 11 12 13 14 15 16 17 18	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:35:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:00:00 AM 11:30:00 AM 11:45:00 AM 11:45:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813		1966653 2261666 1865736	57.5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:15:00 AM 9:30:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:15:00 AM 11:15:00 AM 11:45:00 AM 11:45:00 AM 12:00:00 PM 12:15:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.5 55.5	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861		1966653 2261666 1865736	57.5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:35:00 AM 10:00:00 AM 10:30:00 AM 11:00:00 AM 11:00:00 AM 11:30:00 AM 11:30:00 AM 11:30:00 AM 12:50:00 AM 12:50:00 AM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57 55.5 57.1 57.3	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.8 49.1 47.8 44.2 43.4	44.8 45.4 45.5 45.6 45.7 45.9 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032		1966653 2261666 1865736	57.5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:45:00 AM 10:30:00 AM 10:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 PM 12:30:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.7 55.5 57.1 57.3	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 43.4	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121		1966653	57.5 56.7 56.5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:00:00 AM 9:30:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:00:00 AM 11:15:00 AM 11:30:00 AM 12:00:00 PM 12:30:00 PM 12:30:00 PM 12:45:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.5 55.5 57.1 57.3 54.7 56.7	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 43.4 45.7	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735		1966653	57.5
6 7 8 9 10 111 12 13 14 15 16 17 18 19 20 21 22 23 24 25	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 10:30:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 PM 12:45:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.5 57.5 57.1 57.5 57.3 54.7 56.7	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 47.3 49.1 47.8 44.2 43.4 45.4 47.1	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560		1966653	57.5 56.7 56.5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:00:00 AM 9:30:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:00:00 AM 11:15:00 AM 11:30:00 AM 12:00:00 PM 12:30:00 PM 12:30:00 PM 12:45:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.5 55.5 57.1 57.3 54.7 56.7	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 43.4 45.7	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735		1966653	57.5 56.7 56.5
6 7 8 9 10 111 12 13 14 15 16 17 18 19 20 21 22 23 24 25	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 10:30:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 PM 12:45:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM 10:30:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.5 57.5 57.1 57.5 57.3 54.7 56.7	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 47.3 49.1 47.8 44.2 43.4 45.4 47.1	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560		1966653	57.5 56.7 56.5
6 7 8 9 10 111 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:35:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 12:50:00 AM 12:50:00 PM 12:45:00 PM 12:45:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 55.5 57.1 57.3 54.7 56.7 57.8 54.8 56.7	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 47.1 47.1 44.1 44.8	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1 47.1 47.1 47.3 47.3	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684		1966653	57.5 56.7 56.5 56.3
6 7 8 9 10 11 12 13 14 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:35:00 AM 9:45:00 AM 10:00:00 AM 10:36:00 AM 10:36:00 AM 11:36:00 AM 11:45:00 AM 11:45:00 AM 11:45:00 AM 11:20:00 PM 12:36:00 PM 12:36:00 PM 1:36:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 55.5 57.1 57.3 54.7 56.7 57.8 54.8 56.5	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 43.4 45.4 47.1 44.1 44.1 44.1	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.3 47.3 47.4	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831		1966653	57.5 56.7 56.5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 10:30:00 AM 11:15:00 AM 11:45:00 AM 11:45:00 AM 12:00:00 PM 12:30:00 PM 1:00:00 PM 1:50:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 55.1 57.3 54.7 55.5 57.1 56.7 57.8 56.7	47.8 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.8 44.1 47.8 44.2 45.4 45.4 45.4 46.8	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.4 47.4	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807		1966653	57.5 56.7 56.5 56.3
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:35:00 AM 9:45:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:45:00 AM 11:45:00 AM 11:45:00 AM 12:45:00 PM 12:45:00 PM 12:00:00 PM 13:00:00 PM 13:00:00 PM 13:00:00 PM 13:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.5 57.3 54.7 56.7 57.8 54.8 56.5 58.4 57.2	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 47.3 49.1 47.8 44.2 43.4 45.9 46.6 44.1 44.1 44.1 44.1 44.1 44.1 44.1	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189		1966653	57.5 56.7 56.5 56.3
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28 29 30 31	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:00:00 AM 9:30:00 AM 10:00:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM 11:15:00 AM 11:45:00 AM 11:45:00 AM 11:30:00 PM 12:30:00 PM 10:00:00 PM 10:00:00 PM 10:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.7 56.1 57.7 56.7 57.1 57.1 57.5 57.1 57.5 57.1 57.5 58.8 57.2 56.8	47.8 47.7 47.4 47.1 45.9 46.6 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.3 49.1 44.2 43.4 45.4 47.1 47.1 44.1 44.8 45.9 46.8 46.8 46.8	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.3 47.4 47.4 47.4 47.4	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189		1966653	56.5 56.6
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 31 32	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:35:00 AM 9:45:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:45:00 AM 11:45:00 AM 11:45:00 AM 12:45:00 PM 12:45:00 PM 12:00:00 PM 13:00:00 PM 13:00:00 PM 13:00:00 PM 13:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.3 54.7 57.3 54.7 56.7 57.8 54.8 56.5 58.4 56.5	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 47.1 44.1 44.8 45.9 46.8 46.1 48.8	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.3 47.4 47.4 47.7 47.7	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189		1966653	57.5 56.7 56.5 56.3
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28 29 30 31	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:35:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 12:50:00 PM 12:45:00 PM 12:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:50:00 PM 1:30:00 PM 1:30:00 PM 1:30:00 PM 1:30:00 PM 1:30:00 PM 1:30:00 PM 1:30:00 PM 1:30:00 PM 2:30:00 PM 2:30:00 PM 2:30:00 PM 2:30:00 PM 2:30:00 PM 2:30:00 PM 2:30:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.7 56.1 57.7 56.7 57.1 57.1 57.5 57.1 57.5 57.1 57.5 58.8 57.2 56.8	47.8 47.7 47.4 47.1 45.9 46.6 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.3 49.1 44.2 43.4 45.4 47.1 47.1 44.1 44.8 45.9 46.8 46.8 46.8	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.3 47.4 47.4 47.4 47.4	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189		1966653	56.5 56.6
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:35:00 AM 9:35:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 PM 12:15:00 PM 12:00:00 PM 12:00:00 PM 130:00 PM 130:00 PM 130:00 PM 130:00 PM 130:00 PM 130:00 PM 130:00 PM 130:00 PM 130:00 PM 2:15:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.7 56.7 57.3 54.7 56.5 54.8 56.5 54.8 56.5 54.9 57.2	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 47.3 49.1 47.8 44.2 43.4 45.4 47.1 44.1 44.1 44.1 44.1 44.8 45.9 46.8 46.8 46.8 46.8 46.8 46.8 46.8 46.8	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189 436516 933254 398107		1966653	56.5 56.6
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 34	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 9:00:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:30:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 12:00:00 PM 12:45:00 PM 12:50:00 PM 12:50:00 PM 1:45:00 PM 1:45:00 PM 2:00:00 PM 2:30:00 PM 3:15:00 PM 3:15:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.3 54.7 57.3 54.7 56.7 57.8 58.4 57.2 56.4 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 56.7 57.5 57.5	47.8 47.7 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.1 47.1 47.1 44.1 44.8 45.9 46.8 46.1 48.8 48.2 46.8 46.8 46.8 46.8 46.8 46.8 46.8 46.8	44.8 45.4 45.5 45.6 45.7 45.9 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.3 47.3 47.4 47.4 47.4 47.7 47.8 47.8	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189 33254 398107 371535		1966653	56.5 56.6
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:30:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:45:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 11:50:00 PM 12:15:00 PM 12:30:00 PM 12:30:00 PM 12:30:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 13:50:00 PM 2:30:00 PM 2:30:00 PM 2:30:00 PM 2:30:00 PM 3:30:00 PM 3:30:00 PM 3:30:00 PM 3:30:00 PM 3:30:00 PM 3:30:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.5 57.3 54.7 56.7 57.3 54.7 56.5 58.4 57.5 57.5 56.5 57.5 56.5 56.5 56.5 56.5	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 43.4 45.9 46.6 48.1 44.1 44.1 44.1 44.1 44.1 45.9 46.6 48.3 47.4 44.8 45.9 46.6 47.4 48.8 47.4 47.4 48.8 47.4 47.4 47.4	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.8 47.8 47.8 47.8 47.8	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189 436516 933254 398107 371535 457088		1966653	56.5 56.6 56.8
6 7 8 9 10 11 12 13 14 15 16 16 17 18 19 20 21 22 23 24 25 26 27 27 28 29 30 31 32 33 34 35 36	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:30:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:45:00 AM 10:30:00 AM 10:15:00 AM 10:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 PM 12:30:00 PM 12:30:00 PM 1:50:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.7 56.7 57.3 54.7 56.7 57.8 54.8 56.5 54.9 54.9 57.9 56.1 56.7 56.7 56.7 56.7 56.7 56.7 56.7 56.7	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 47.3 49.1 47.8 44.2 43.4 45.9 46.8 46.1 48.8 48.9 46.1 48.8 48.9 46.8 48.9 46.8 46.9 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.3 47.4 47.4 47.7 47.7 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602556 301995 446684 691831 524807 251189 436516 933254 398107 371535 457088 323594		1966653	56.5 56.6
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:30:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:30:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 11:30:00 AM 12:50:00 PM 12:15:00 PM 12:50:00 PM 1:50:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 57.7 56.1 57.3 54.7 56.7 57.8 54.8 56.5 58.4 56.5 58.4 56.5 56.5 56.5 56.5 56.5 56.5 56.5 56	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 43.6 48.7 47.3 47.8 44.2 45.4 47.1 44.8 45.9 46.1 48.8 46.1 48.8 46.1 48.8 46.3 47.4 43.4 45.9 46.6 46.6 47.4 47.1 47.1 44.8 46.6 46.6 46.7 47.4 48.8 46.8 46.9 46.9 46.9 47.9 47.9 47.9 47.9 47.9 47.9 47.9 47	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.3 47.3 47.4 47.7 47.8 47.8 47.8 47.8 48.8 48.9 48.9	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189 436516 933254 398107 371535 457088 323594 346737		1966653	56.5 56.6 56.8
6 7 8 9 10 11 12 13 14 15 16 16 17 18 19 20 21 22 23 24 25 26 27 27 28 29 30 31 32 33 34 35 36	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:30:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:45:00 AM 10:30:00 AM 10:15:00 AM 10:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 PM 12:30:00 PM 12:30:00 PM 1:50:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 57.7 56.1 57.7 56.7 57.3 54.7 56.7 57.8 54.8 56.5 54.9 54.9 57.9 56.1 56.7 56.7 56.7 56.7 56.7 56.7 56.7 56.7	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 48.8 46.3 47.4 43.6 47.3 49.1 47.8 44.2 43.4 45.9 46.8 46.1 48.8 48.9 46.1 48.8 48.9 46.8 48.9 46.8 46.9 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.3 47.4 47.4 47.7 47.7 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8 47.8	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602556 301995 446684 691831 524807 251189 436516 933254 398107 371535 457088 323594		1966653	56.5 56.6 56.8
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:30:00 AM 9:00:00 AM 9:30:00 AM 9:30:00 AM 9:30:00 AM 10:00:00 AM 10:15:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 11:30:00 AM 12:50:00 PM 12:15:00 PM 12:50:00 PM 1:50:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 57.7 56.1 57.3 54.7 56.7 57.8 54.8 56.5 58.4 56.5 58.4 56.5 56.5 56.5 56.5 56.5 56.5 56.5 56	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 43.6 48.7 47.3 47.8 44.2 45.4 47.1 44.8 45.9 46.1 48.8 46.1 48.8 46.1 48.8 46.3 47.4 43.4 45.9 46.6 46.6 47.4 47.1 47.1 44.8 46.6 46.6 46.7 47.4 48.8 46.8 46.9 46.9 46.9 47.9 47.9 47.9 47.9 47.9 47.9 47.9 47	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.1 47.3 47.3 47.4 47.7 47.8 47.8 47.8 47.8 48.8 48.9 48.9	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189 436516 933254 398107 371535 457088 323594 346737		1966653	56.5 56.6 56.8
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 24 26 27 28 29 30 31 32 24 33 33 34 35 36 37 38	12/08/2023 12/08/2023	8:15:00 AM 8:30:00 AM 8:35:00 AM 9:00:00 AM 9:30:00 AM 9:35:00 AM 9:35:00 AM 10:00:00 AM 10:30:00 AM 10:30:00 AM 11:30:00 AM 11:30:00 AM 11:50:00 AM 11:50:00 AM 11:50:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 12:50:00 PM 13:50:00 PM	57.4 56.4 56.7 55.8 59 57.2 57.5 56.4 56.3 57.1 56.9 54.9 55.7 56.1 57.7 56.1 57.3 54.7 56.5 57.8 54.8 56.5 58.4 57.2 56.5 58.4 57.5 56.5 56.5 56.5 56.5 56.5 56.5 56.5	47.8 47.7 47.4 47.1 45.9 46.6 48.3 47.4 43.6 48.7 47.3 49.1 47.8 44.2 43.4 45.4 47.1 44.1 44.1 44.1 44.1 45.9 46.8 48.2 46.1 48.2 46.1 48.2 47.3 48.3 48.4 48.8 48.8 46.3 47.4 47.4 47.1 47.1 47.1 47.1 47.1 47.1	44.8 45.4 45.5 45.6 45.7 45.9 46.1 46.3 46.6 46.7 46.8 46.9 47 47.1 47.8 47.8 47.8 47.8 48.8 48.9 48.9 48.9	436516 467735 380189 794328 524807 562341 436516 426580 512861 489779 309030 588844 407380 501187 354813 512861 537032 295121 467735 602560 301995 446684 691831 524807 251189 436516 933254 398107 371535 457088 323594 346737 399030		1966653	56.5 56.6 56.8

41	12/08/2023	5:15:00 PM	55.5	46.9	48.3	354813		
42	12/08/2023	5:30:00 PM	54.9	47.7	48.7	309030		
43	12/08/2023	5:45:00 PM	53.9	45.7	48.8	245471		
			53.9			199526	20114757	1722144 56.3
44	12/08/2023	6:00:00 PM	53	45.6	49.1	199526	20114757	1722144 56.3
1	42/00/2022	7.45.00 444	50.0	42.0	20	190546		
	13/08/2023	7:15:00 AM	52.8	43.9	39			
2	13/08/2023	7:30:00 AM	53.1	44.6	39.5	204174		
3	13/08/2023	7:45:00 AM	53.9	44.1	39.5	245471		
4	13/08/2023	8:00:00 AM	52.7	42.8	39.9	186209		640191 52.0
5	13/08/2023	8:15:00 AM	54	44.8	39.9	251189		
6	13/08/2023	8:30:00 AM	56.5	43.5	40	446684		
7	13/08/2023	8:45:00 AM	59.9	47.7	40	977237		
8	13/08/2023	9:00:00 AM	54.8	43.4	40.5	301995		1861318 56.7
9	13/08/2023	9:15:00 AM	56.9	42.1	40.6	489779		1001010
-			55.4	41.1	40.8			
10	13/08/2023	9:30:00 AM				346737		
11	13/08/2023	9:45:00 AM	53.8	42.8	.41	239883		
12	13/08/2023	10:00:00 AM	55	43.5	41.1	316228		1378394 55.4
13	13/08/2023	10:15:00 AM	54.7	41.2	41.2	295121		
14	13/08/2023	10:30:00 AM	54.9	41.8	41.3	309030		
15	13/08/2023	10:45:00 AM	57.3	39.9	41.4	537032		
16	13/08/2023	11:00:00 AM	61.2	43.2	41.5	1318257		1457410 55.6
17	13/08/2023	11:15:00 AM	52.3	39.5	41.5	169824		
18	13/08/2023	11:30:00 AM	52.8	41.5	41.8	190546		
19	13/08/2023	11:45:00 AM	59.5	41.5	41.9	891251		250070 50.4
20	13/08/2023	12:00:00 PM	52.5	40	42	177828		2569878 58.1
21	13/08/2023	12:15:00 PM	52.9	40	42.1	194984		
22	13/08/2023	12:30:00 PM	53.6	40.6	42.2	229087		
23	13/08/2023	12:45:00 PM	54	42.5	42.3	251189		
24	13/08/2023	1:00:00 PM	54.1	39.9	42.5	257040		853088 53.3
25	13/08/2023	1:15:00 PM	54	39.5	42.6	251189		
26	13/08/2023	1:30:00 PM	54.2	40.8	42.7	263027		
27	13/08/2023	1:45:00 PM	53.7	39	42.8	234423		
28			52.7	41.3	42.8			1005678 54.0
	13/08/2023	2:00:00 PM				186209		1005676 54.0
29	13/08/2023	2:15:00 PM	51.4	41.9	42.8	138038		
	13/08/2023	2:30:00 PM	52.4	42.3	42.9			
	13/08/2023	2:45:00 PM	53.9	42.9	43.2			
	13/08/2023	3:00:00 PM	51.4	41	43.4			324247 49.1
	13/08/2023	3:15:00 PM	54.6	41.4	43.5			
	13/08/2023	3:30:00 PM	53.8	42.6	43.5			
	13/08/2023	3:45:00 PM	54.4	42.7	43.8			
	13/08/2023	4:00:00 PM	52.9	43.9	43.9			0 #NUM!
	13/08/2023	4:15:00 PM	54.4	42.2	43.9			0 #INUIVI!
	13/08/2023	4:30:00 PM	53.2	44	. 44			
	13/08/2023	4:45:00 PM	54.9	42.8	44.1			
	13/08/2023	5:00:00 PM	54.4	43.8	44.4			0 #NUM!
30	13/08/2023	5:15:00 PM	54.9	44.4	44.6	309030		
31	13/08/2023	5:30:00 PM	54.3	44.7	44.7	269153		
32	13/08/2023	5:45:00 PM	53.8	42	44.8	239883		
33	13/08/2023	6:00:00 PM	49.2	40.5	47.7	83176	10991447	818066 53.1
	10/00/2020	0.00.001 111	10.2	10.0		00110		010000
1	14/08/2023	7:15:00 AM	59.4	51.4	46.6	870964		
2	14/08/2023	7:30:00 AM	58.9	50.6	47.2	776247		
3	14/08/2023	7:45:00 AM	59.2	51.1	47.6	831764		
4	14/08/2023	8:00:00 AM	58.8	50	47.8	758578		2478974 57.9
5	14/08/2023	8:15:00 AM	58.9	52.4	47.9	776247		
6	14/08/2023	8:30:00 AM	59.1	51	48	812831		
7	14/08/2023	8:45:00 AM	58.5	49.7	48.1	707946		
8	14/08/2023	9:00:00 AM	58.2	49.7	48.2	660693		3055601 58.8
9	14/08/2023	9:15:00 AM	57.6	48.5	48.4	575440		
10	14/08/2023	9:30:00 AM	57.7	49	48.5	588844		
11	14/08/2023	9:45:00 AM	56.2	47.9	48.6	416869		
12	14/08/2023	10:00:00 AM	57.1	48.4	48.7	512861		2241846 57.5
								2241040 37.3
13	14/08/2023	10:15:00 AM	57	47.2	48.7	501187		
14	14/08/2023	10:30:00 AM	57.4	48.7	49	549541		
15	14/08/2023	10:45:00 AM	57.2	48	49.1	524807		
16	14/08/2023	11:00:00 AM	56.2	48.2	49.5	416869		2088397 57.2
17	14/08/2023	11:15:00 AM	55.2	46.6	49.7	331131		
18	14/08/2023	11:30:00 AM	56.3	47.8	49.7	426580		
19	14/08/2023	11:45:00 AM	55.4	47.6	49.9	346737		
20	14/08/2023	12:00:00 PM	57.3	49.5	49.9	537032		1521317 55.8
21			57.6	49.5 51	50	575440		102 13 17 30.0
21	14/08/2023	12:15:00 PM				5/5440		
	14/08/2023	12:30:00 PM	58.7	49.9	50			

Document Set ID: 1906122

	14/08/2023	12:45:00 PM	57.4	50.3	50				
	14/08/2023	1:00:00 PM	57.3	48.1	50			1112472	54.4
	14/08/2023	1:15:00 PM	58.5	50.9	50.3				
	14/08/2023	1:30:00 PM	59.1	50	50.6				
	14/08/2023	1:45:00 PM	58	50.9	50.8				
	14/08/2023	2:00:00 PM	57.6	51.3	50.9			0	#NUM
	14/08/2023	2:15:00 PM	59.9	48.6	50.9				
	14/08/2023	2:30:00 PM	56.8	48.7	50.9				
	14/08/2023	2:45:00 PM	58.2	52	51				
	14/08/2023	3:00:00 PM	58.8	53.7	51			0	#NUM
	14/08/2023	3:15:00 PM	58.7	52.6	51.1				
	14/08/2023	3:30:00 PM	58.9	53.6	51.1				
	14/08/2023	3:45:00 PM	58.4	52.1	51.3				
	14/08/2023	4:00:00 PM	58.5	52.1	51.4			0	#NUM
22	14/08/2023	4:15:00 PM	57.8	51.6	51.6	602560			
23	14/08/2023	4:30:00 PM	58.4	50.9	52	691831			
24	14/08/2023	4:45:00 PM	57.6	49.1	52.1	575440			
25	14/08/2023	5:00:00 PM	56.6	50.8	52.1	457088		1869830	56.7
26	14/08/2023	5:15:00 PM	57.1	50	52.4	512861		.000000	00.7
27	14/08/2023	5:30:00 PM	58.7	51.1	52.6	741310			
28	14/08/2023	5:45:00 PM	56.5	50	53.6	446684			
29	14/08/2023	6:00:00 PM	56.1	49.9	53.7	407380	15,338,387.52	2157943	57.3
	14/00/2020	0.00.001141	50.1	40.0	30.1	407000	10,000,007.02	2107040	07.0
1	15/08/2023	7:15:00 AM	58	51.2	44.7	630957			
2	15/08/2023	7:30:00 AM	59	51.3	44.8	794328			
3	15/08/2023	7:45:00 AM	67.8	53.5	44.9	6025596			
4	15/08/2023	8:00:00 AM	68.7	52.6	45.5	7413102		7450881	62.7
5	15/08/2023	8:15:00 AM	59.9	51.1	45.5	977237		_	
6	15/08/2023	8:30:00 AM	59.7	51.7	45.7	933254			
7	15/08/2023	8:45:00 AM	60.6	52.7	45.7	1148154			
8	15/08/2023	9:00:00 AM	59.5	51.3	45.9	891251		10471748	64.2
9	15/08/2023	9:15:00 AM	56.9	47.2	46.2	489779			
10	15/08/2023	9:30:00 AM	56.4	46.2	46.8	436516			
11	15/08/2023	9:45:00 AM	56.3	45.5	46.9	426580			
12	15/08/2023	10:00:00 AM	56.1	44.8	47.2	407380		2244125	57.5
13	15/08/2023	10:15:00 AM	56.8	46.8	47.8	478630			51.0
14	15/08/2023	10:30:00 AM	56.5	47.8	51.1	446684			
15	15/08/2023	10:45:00 AM	56.4	44.7	51.2	436516			
16	15/08/2023	11:00:00 AM	60.9	45.9	51.3	1230269		1769210	56.5
17	15/08/2023	11:15:00 AM	56.4	45.7	51.3	436516		502 10	30.0
18	15/08/2023	11:30:00 AM	57.6	46.9	51.7	575440			
19	15/08/2023	11:45:00 AM	56.3	45.5	52.6	426580			
20	15/08/2023	12:00:00 PM	56.4	44.9	52.7	436516	25,041,283.79	2668804	58.2
20	10/00/2023	12.00.00 FIVI	30.4	44.9	32.1	430310	25,041,203./9	2000004	JO.Z

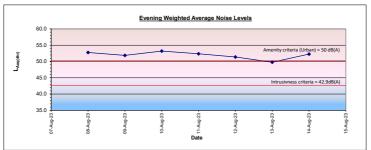
Noise Assessment

 Evening Period amenity criteria
 6pm to 10pm
 Urban

 Intrusivenees criteria (RBL+ 5)
 42.9 dB(A)
 Urban

 Median LAeqEvening 18:00-22:00
 52.3 dB(A)

Date	L _{Aeg(evening)}	ABL	RBL
8/08/2023	52.8	35.7	
9/08/2023	51.9	38.3	
10/08/2023	53.2	38.6	
11/08/2023	52.4	36.6	37.9
12/08/2023	51.4	37.9	
13/08/2023	49.8	39.5	
14/08/2023	52.3	36.0	
	8/08/2023 9/08/2023 10/08/2023 11/08/2023 12/08/2023 13/08/2023	8/08/2023 52.8 9/08/2023 51.9 10/08/2023 53.2 11/08/2023 52.4 12/08/2023 51.4 13/08/2023 49.8	8/08/2023 52.8 35.7 9/08/2023 51.9 38.3 10/08/2023 53.2 38.6 11/08/2023 52.4 36.6 12/08/2023 51.4 37.9 13/08/2023 49.8 39.5



Monday Evening		14/08/2023	52.3	36.0							
item	Į.	Date	time	L _{Aeq(15 minute)}	,	L _{A90(15min)} assending order	10^((L _{Aeq(15 minute)} /10))	period sums	hrly sums	hrly Laeq	
	1	8/08/2023		55.3	45.7	34.9					
	2	8/08/2023	6:30:00 PM	55.5	42.1	35.7					
	3	8/08/2023	6:45:00 PM	53.6	42.8	36.7					
	4	8/08/2023	7:00:00 PM	52.2	41.1	37.3			1088703	54.3	
	5	8/08/2023	7:15:00 PM	54	41.6	37.5					
	6 7	8/08/2023	7:30:00 PM	52.9	40.1	37.5					
	8	8/08/2023 8/08/2023	7:45:00 PM 8:00:00 PM	55.1 52	40.2 38.2	38 38.2			928256	53.7	1
	9	8/08/2023	8:15:00 PM	52	38.2	38.9			920200	53.7	
	10	8/08/2023	8:30:00 PM	52.8	38.9	40.1					
	11	8/08/2023		50.2	37.3	40.2					
	12	8/08/2023	9:00:00 PM	49.7	35.7	41.1			514477	51.1	1
	13	8/08/2023	9:15:00 PM	50.4	36.7	41.6			0	0	_
	14	8/08/2023	9:30:00 PM	52	37.5	42.1					
	15	8/08/2023	9:45:00 PM	48.6	34.9	42.8					
	16	8/08/2023		51.8	37.5	45.7			491937	50.9	ı
	-							3023373			
	1	9/08/2023	6:15:00 PM	53.6	41.2	38.3	229087				
	2	9/08/2023	6:30:00 PM	53.1	42.4	38.3	204174				
	3	9/08/2023	6:45:00 PM	54.1	43.6	38.7	257040				
	4	9/08/2023	7:00:00 PM	52.1	42.6	39.4	162181		852481	53.3	
	5	9/08/2023	7:15:00 PM	51.6	42.5	40.1					
	6	9/08/2023	7:30:00 PM	50	40.1	40.4					
	7	9/08/2023	7:45:00 PM	51.3	41.3	40.6					
	8	9/08/2023	8:00:00 PM	51.6	40.4	41.2			523984	51.2	
	9	9/08/2023	8:15:00 PM	51.4	41.3	41.3					
	10	9/08/2023		50.2	39.4	41.3					
	11	9/08/2023	8:45:00 PM	50.7	41.6	41.6			504785	51.0	1
	12 13	9/08/2023 9/08/2023	9:00:00 PM 9:15:00 PM	51.6 50.2	41.6 38.3	41.6 42.4			504765	51.0	
	14	9/08/2023	9:30:00 PM	51.6	38.7	42.4					
	15	9/08/2023	9:45:00 PM	52.9	38.3						
	16	9/08/2023		51.5	40.6				585495	51.7	1
		0,00,2020	10.00.001 111	01.0	10.0	10.0		2466745		01	
	1	10/08/2023	6:15:00 PM	58.2	48.2	38.4	660693	2.000			
	2	10/08/2023	6:30:00 PM	53.8	45.8	38.6					
	3	10/08/2023		53.4	45.6	39.1					
	4	10/08/2023	7:00:00 PM	54.3	45.1	39.3			1388506	55.4	- 1
	5	10/08/2023	7:15:00 PM	54.7	45.1	39.4	295121				
	6	10/08/2023	7:30:00 PM	53.8	44.6	40.2	239883				
	7	10/08/2023	7:45:00 PM	51.8	42	40.5	151356				
	8	10/08/2023		52	42	40.8			844850	53.2	
	9	10/08/2023		50.6	40.8	42					
	10	10/08/2023		52.4	39.3	42					
	11	10/08/2023		51.7	40.2						
	12	10/08/2023		52.2	38.6				602465	51.8	
	13	10/08/2023		52	39.1	45.1					
	14	10/08/2023		50.3	40.5	45.6					
	15	10/08/2023		51.1	38.4	45.8			400470	E1 C	1
	16_	10/08/2023	10:00:00 PM	50.2	39.4	48.2	104713	2225000	499179	51.0	_
	1	11/08/2023	6:15:00 PM	55.2	42.3	35.6	331131	3335000			
	'	11/00/2023	J. 13.00 FIVI	55.2	42.3	33.0	331131				

Document Set ID: 1906122

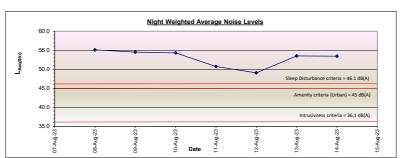
2	11/08/2023	6:30:00 PM	54	44.1	36.6	251189		
3			53.4	42.1				
	11/08/2023	6:45:00 PM			36.8	218776		
4	11/08/2023	7:00:00 PM	53.1	43.2	36.9	204174		1005270 54.0
5	11/08/2023	7:15:00 PM	53.7	40.7	37.5	234423		
6	11/08/2023	7:30:00 PM	52.3	40.8	38.6	169824		
7	11/08/2023	7:45:00 PM	51.7	38.9	38.9	147911		
8	11/08/2023	8:00:00 PM	51.9	39.5	39.4	154882		707040 52.5
9	11/08/2023	8:15:00 PM	53	39.4	39.5	199526		·
10	11/08/2023	8:30:00 PM	53.7	40.4	40.4	234423		
11	11/08/2023	8:45:00 PM	51.7	37.5	40.7	147911		
12	11/08/2023	9:00:00 PM	50.3	35.6	40.8	107152		689012 52.4
13	11/08/2023	9:15:00 PM	50.4	36.6	42.1	109648		
14	11/08/2023	9:30:00 PM	49.4	38.6	42.3	87096		
15	11/08/2023	9:45:00 PM	48.9	36.9	43.2	77625		
16	11/08/2023	10:00:00 PM	49.1	36.8	44.1	81283		355652 49.5
					•		2756973	
1	12/08/2023	C-45-00 DM	53.5	44.6	37.4	223872	2.000.0	
		6:15:00 PM						
2	12/08/2023	6:30:00 PM	52.1	44	37.9	162181		
3	12/08/2023	6:45:00 PM	52.7	42.6	37.9	186209		
4	12/08/2023	7:00:00 PM	55.7	40.2	38.6	371535		943797 53.7
								943/9/ 55./
5	12/08/2023	7:15:00 PM	51.2	39.8	38.6	131826		
6	12/08/2023	7:30:00 PM	49.3	39.1	38.6	85114		
7	12/08/2023	7:45:00 PM	49.5	37.9	39.1	89125		
			50.5					110000 50.0
8	12/08/2023	8:00:00 PM		40.6	39.5	112202		418266 50.2
9	12/08/2023	8:15:00 PM	50.5	39.5	39.8	112202		
10	12/08/2023	8:30:00 PM	51.6	42.1	40.2	144544		
11	12/08/2023	8:45:00 PM	51.2	41.6	40.6	131826		
								500770 54.0
12	12/08/2023	9:00:00 PM	50.5	38.6	41.6	112202		500773 51.0
13	12/08/2023	9:15:00 PM	49.4	38.6	42.1	87096		
14	12/08/2023	9:30:00 PM	48.7	38.6	42.6	74131		
15	12/08/2023	9:45:00 PM	48.7	37.4	44	74131		
16	12/08/2023	10:00:00 PM	50	37.9	44.6	100000		335358 49.2
							2198195	
1	13/08/2023	6:15:00 PM	53.6	42.4	39	229087		
2			52.1	41.2				
	13/08/2023	6:30:00 PM			39.5	162181		
3	13/08/2023	6:45:00 PM	51.2	41.4	39.6	131826		
4	13/08/2023	7:00:00 PM	51.4	41	39.7	138038		661132 52.2
5	13/08/2023	7:15:00 PM	49.9	41	39.8	97724		
6	13/08/2023	7:30:00 PM	51.9	40.2	40.2	154882		
7	13/08/2023	7:45:00 PM	52.5	40.6	40.2	177828		
8	13/08/2023	8:00:00 PM	49.8	40.6	40.3	95499		525933 51.2
9	13/08/2023	8:15:00 PM	47.1	39.7	40.5	51286		020000 01.2
10	13/08/2023	8:30:00 PM	48	40.2	40.6	63096		
11	13/08/2023	8:45:00 PM	46.9	39.8	40.6	48978		
12	13/08/2023	9:00:00 PM	49.4	40.3	41	87096		250456 48.0
13	13/08/2023	9:15:00 PM	46.1	39.6	41	40738		
						40730		
14	13/08/2023	9:30:00 PM	46.7	39.5	41.2			
15	13/08/2023	9:45:00 PM	49.7	39	41.4			_
16	13/08/2023	10:00:00 PM	46.2	40.5	42.4	41687		82425 43.1
							1519946	
	4.4/00/0000	0.45.00.00:		45.0	05 -	040000	1313340	
1	14/08/2023	6:15:00 PM	55	45.6	35.5	316228		
2	14/08/2023	6:30:00 PM	54.8	46.7	36	301995		
3	14/08/2023	6:45:00 PM	53.7	46.1	36.7	234423		
4	14/08/2023	7:00:00 PM	52.9	44.4	36.8	194984		1047630 54.2
								1047030 34.2
5	14/08/2023	7:15:00 PM	52.6	43.9	37.7	181970		
6	14/08/2023	7:30:00 PM	55	45.8	37.9	316228		
7	14/08/2023	7:45:00 PM	53.9	42.1	38.7	245471		
8	14/08/2023		52.4	42.6	38.7	173780		917449 53.6
		8:00:00 PM						311448 33.0
9	14/08/2023	8:15:00 PM	48.8	38.7	42.1	75858		
10	14/08/2023	8:30:00 PM	51	38.7	42.6	125893		
11	14/08/2023	8:45:00 PM	49.9	37.7	43.9	97724		
12	14/08/2023	9:00:00 PM	51.8	36.8	44.4	151356		450830 50.5
								400030 00.0
13	14/08/2023	9:15:00 PM	48.8	36.7	45.6	75858		
14	14/08/2023	9:30:00 PM	48.4	35.5	45.8	69183		
15	14/08/2023	9:45:00 PM	48.7	37.9	46.1	74131		
								272075 40 2
16	14/08/2023	10:00:00 PM	47.3	36	46.7	53703		272875 48.3
							2688784	

Noise Assessment

| Night Period amenity criteria | 10pm to 7am | 45 dB(A) | Intrusiveness criteria (RBL+ 5) | 36.1 dB(A) | Sleep Disturbance criteria (RBL+ 15) | 46.1 dB(A) | Median LAeqNight 22:00-07:00 | 53.5 dB(A) |

Night	Date	L _{aeq(night)}	ABL	RBL
Tuesday Night	8/08/2023	55.1	31.9	
Wednesday Night	9/08/2023	54.5	32.0	
Thursday Night	10/08/2023	54.3	31.1	
Friday Night	11/08/2023	50.7	30.3	31.1
Saturday Night	12/08/2023	49.1	30.7	
Sunday Night	13/08/2023	53.5	39.4	
Monday Night	14/08/2023	53.4	30.0	

Urban



no.	date	time	L _{Aeq(15 minute)}	L _{A90(15minute)}	L _{A90(15min)} assending order	10^((L _{Aeq(15 minute} /10))	period sums hrly Lae	q Sleep Disturbance events
1	8/08/202			38.6	30.5	77625		0
2				37.4	31.5	154882		0
3	8/08/202	3 10:45:00 PM	50.2	37.3	31.9	104713		0
4	8/08/202	3 11:00:00 PM	46.9	34.6	32.2	48978	386197 49.8	0
5	8/08/202	3 11:15:00 PM	44.5	35.1	32.3	28184		0
6	8/08/202	3 11:30:00 PM	46.2	35.4	32.3	41687		0
7	8/08/202	3 11:45:00 PM	51.2	34.5	32.5	131826	<u>.</u>	. 0
8	9/08/202				33	39811	241507 47.8	0
9	9/08/202	3 12:15:00 AM	48.9	33.1	33.1	77625		0
10	9/08/202				33.7	107152		0
11	9/08/202				34	56234		. 0
12					34.4	64565	305576 48.8	
13	9/08/202					51286		0
14						23988		0
15	9/08/202	3 1:45:00 AM	43.1			20417	i	. 0
16	9/08/202	3 2:00:00 AM	45.6	35.3	34.6	36308	132000 45.2	0
17	9/08/202					26915	<u></u>	0
18	9/08/202				35.1	41687		0
19	9/08/202				35.3	69183		. 0
20	9/08/202				35.4	87096	224882 47.5	
21	9/08/202				36.5	72444		0
22	9/08/202				37.3	77625		0
23	9/08/202				37.4	75858	i	. 0
24	9/08/202				38.6	64565	290491 48.6	
25	9/08/202				40.2	1548817		0
26	9/08/202					218776		0
27	9/08/202				43.3	229087	1	0
28	9/08/202				44.7	354813	2351493 57.7	
29	9/08/202				46.7	446684		0
30	9/08/202				47.1	616595		0
31	9/08/202				49.1	630957	1	0
32	9/08/202				51.4	954993	2649229 58.2	
33	9/08/202				52.7	1174898		0
34	9/08/202					1479108		0
35	9/08/202				54.4	1445440	5076683 61.0	0
36	9/08/202	3 7:00:00 AM	59.9	52.7	54.7	977237	5076683 61.0 11658058	
4	0/00/202	2 10:15:00 DM	50.8	20.7	31.5	120226	11030036	<u>o</u> 0
2	9/08/202 9/08/202				31.6	81283		0
3	9/08/202				31.9	21380		0
4	9/08/202				32	41687	264576 48.2	
5	9/08/202				32.2	23988	204370 40.2	
6	9/08/202				32.2	102329		0
7					32.2	117490		0
	10/08/202				32.3	30200	274007 48.4	
	10/08/202					131826	2, 1001	
	10/08/202					56234		0
	10/08/202					79433		0
	10/08/202				32.7	26915	294408 48.7	
	10/08/202					43652		- 0
	10/08/202				33.2	48978		0

Document Set ID: 1906122

15 10/08/2	000 4.4	5:00 AM	4	8 33.2	33.3	63096			0
16 10/08/2	023 2:0	00:00 AM	47.	1 33.3	33.7	51286		207011 47.1	0
17 10/08/2	023 2:1	5:00 AM	42.	9 32.2	33.7	19498			0
18 10/08/2	n23 2⋅3	80:00 AM	46.	4 32.5	34	43652			0
19 10/08/2		5:00 AM	45.		34.4	35481			0
20 10/08/2		00:00 AM	49.		34.4	87096		185728 46.7	0
21 10/08/2	023 3:1	5:00 AM	45.	8 32.3	34.6	38019			0
			48.		36.8				0
		80:00 AM				74131			
23 10/08/2	023 3:4	5:00 AM	5	0 37.4	37.1	100000			0
24 10/08/2	023 4:0	00:00 AM	45.	3 34.4	37.4	33884		246034 47.9	0
25 10/08/2		5:00 AM	49.		39.7	85114			Ō
26 10/08/2	023 4:3	80:00 AM	50.	4 40.2	40.2	109648			0
27 10/08/2	023 4:4	5:00 AM	52.	5 41	41	177828			0
28 10/08/2		00:00 AM	5		44.2	398107		770697 52.8	0
								110031 32.0	
29 10/08/2		5:00 AM	5		44.9	251189			0
30 10/08/2	023 5:3	80:00 AM	58.	9 47.7	47.7	776247			0
31 10/08/2	023 5.4	5:00 AM	58.	2 50.6	50.6	660693			0
								0040000 50.0	
32 10/08/2		00:00 AM	60.		51.9	1230269		2918398 58.6	0
33 10/08/2	023 6:1	5:00 AM	62.	9 55.4	52.1	1949845			0
34 10/08/2	023 6:3	80:00 AM	59.	1 51.9	52.7	812831			0
			60.						0
35 10/08/2		5:00 AM			53	1096478			
36 10/08/2	023 7:0	0:00 AM	60.	7 53	55.4	1174898		5034051 61.0	0
							10,194,909.96		0
1 10/08/2	023 10-1	5:00 PM	46.	4 36.5	30.2	43652	-, - ,		Ō
2 10/08/2		80:00 PM	46.		30.9	47863			0
3 10/08/2	023 10:4	5:00 PM	44.	3 32.7	31.1	26915			0
4 10/08/2	023 11:0	0:00 PM	4	7 32.7	31.4	50119		168549 46.2	0
								100010 10.2	
5 10/08/2		5:00 PM	45.		31.5	34674			0
6 10/08/2	023 11:3	80:00 PM	43.	1 31.4	31.7	20417			0
7 10/08/2	023 11:4	5:00 PM	50.	8 33.1	31.9	120226			0
8 11/08/2		0:00 AM	49.		32.1	93325		268643 48.3	Ō
								200043 40.3	
9 11/08/2		5:00 AM	48.		32.2	70795			0
10 11/08/2	023 12:3	80:00 AM	46.	2 31.9	32.2	41687			0
11 11/08/2	023 12-4	5:00 AM	48.	2 32.2	32.5	66069			0
12 11/08/2		00:00 AM	45.		32.5	32359		210910 47.2	0
13 11/08/2	023 1:1	5:00 AM	46.	6 31.1	32.6	45709			0
14 11/08/2	023 1:3	80:00 AM	39.	6 30.9	32.7	9120			0
					32.7				0
		5:00 AM	41.			15136			
16 11/08/2	023 2:0	00:00 AM	4	5 31.5	32.9	31623		101587 44.0	0
17 11/08/2	023 2:1	5:00 AM	38.	6 32.2	33.1	7244			0
18 11/08/2		80:00 AM	50.		33.4	107152			Ō
19 11/08/2		5:00 AM	4		34.3	79433			0
20 11/08/2	023 3:0	00:00 AM	50.:	2 32.9	34.6	104713		298542 48.7	0
21 11/08/2		5:00 AM	47.	4 32.5	35.5	54954			0
			49.						0
		80:00 AM			35.6	87096			
23 11/08/2	023 3:4	5:00 AM	50.	2 36.3	36.3	104713			0
24 11/08/2	023 4:0	00:00 AM	47.	8 35.5	36.5	60256		307019 48.9	0
25 11/08/2		5:00 AM	49.		36.7	91201			0
26 11/08/2		80:00 AM	48.		37.5	66069			0
27 11/08/2	023 4:4	5:00 AM	51.	6 39.7	39.7	144544			0
28 11/08/2	023 5:0	00:00 AM	57.	4 44.2	43.3	549541		851355 53.3	0
29 11/08/2			54.		44.2				0
		5:00 AM				301995			
30 11/08/2		80:00 AM	56.		48.3	467735			0
31 11/08/2	023 5:4	5:00 AM	58.	5 51.1	50.9	707946			0
32 11/08/2		0:00 AM	60.		51.1	1148154		2625830 58.2	0
								2020000 30.2	
33 11/08/2		5:00 AM	63.		52.3	2089296			0
34 11/08/2	023 6:3	80:00 AM	59.	8 52.5	52.5	954993			0
35 11/08/2	023 6:4	5:00 AM	59.	6 50.9	52.7	912011			0
36 11/08/2		0:00 AM	59.		55.3	912011		4868310 60.9	0
00_11/00/2	020 7.0	O.UU AIVI	39.	JZ.1	33.3	512011	0.700.715.	4000010 00.0	
							9,700,745.77		0
1 11/08/2	023 10:1	5:00 PM	46.	9 37.1	29.5	48978			0
2 11/08/2		80:00 PM	50.		29.7	104713			0
3 11/08/2		5:00 PM	47.		30.3				
						60256			0
4 11/08/2	023 11:0	0:00 PM	44.		30.5	25704		239651 47.8	0
5 11/08/2	023 11-1	5:00 PM	45.	1 33.1	30.6	32359			0
0 1170072									
		80:00 PM	48.		30.7	67608			0
7 11/08/2	023 11:4	5:00 PM	4	6 33.5	31	39811			0
8 12/08/2	023 12:0	00:00 AM	45.	4 31.8	31.1	34674		174452 46.4	0
									0
		5:00 AM	40.		31.3	12023			
10 12/08/2		80:00 AM	45.		31.4	33884			0
11 12/08/2	023 12:4	5:00 AM	45.	1 32	31.7	32359			0
12 12/08/2		0:00 AM	47.		31.7	56234		134501 45.3	ō
12 12/00/2	U23 1:U	O.UU AIVI	47.	5 32	31.7	30234		154501 45.3	U

13 12/08/2023	1:15:00 AM	45.1	33.3	31.8	32359			0
14 12/08/2023	1:30:00 AM	43.7	32.3	31.8	23442			0
15 12/08/2023	1:45:00 AM	39.3	30.3	31.9	8511			0
16 12/08/2023	2:00:00 AM	48.2	30.6	32	66069		130382 45.1	0
17 12/08/2023	2:15:00 AM	46	31	32	39811			0
18 12/08/2023	2:30:00 AM	41.9	30.7	32.3	15488			0
19 12/08/2023	2:45:00 AM	49.3	29.5	32.4	85114			0
20 12/08/2023	3:00:00 AM	43.9	29.7	32.6	24547		164960 46.2	0
							104900 40.2	
21 12/08/2023	3:15:00 AM	40.6	30.5	33.1	11482			0
22 12/08/2023	3:30:00 AM	46.3	31.7	33.3	42658			0
23 12/08/2023	3:45:00 AM	45.6	31.4	33.5	36308			0
24 12/08/2023	4:00:00 AM	43.7	31.1	34.4	23442		113890 44.5	0
25 12/08/2023	4:15:00 AM	46.2	31.7	35.1	41687			0
26 12/08/2023	4:30:00 AM	45.1	31.9	35.3	32359			0
27 12/08/2023					33884			0
	4:45:00 AM	45.3	35.3	35.8				
28 12/08/2023	5:00:00 AM	51.2	37	37	131826		239756 47.8	0
29 12/08/2023	5:15:00 AM	48.5	35.1	37.1	70795			0
30 12/08/2023	5:30:00 AM	50.6	38.3	38.3	114815			0
31 12/08/2023	5:45:00 AM	55.2	42.9	42.9	331131			0
32 12/08/2023	6:00:00 AM	58.3	43.6	43.6	676083		1192824 54.7	0
		58.9					1102024 04.1	0
	6:15:00 AM		48	44.6	776247			
34 12/08/2023	6:30:00 AM	56.2	45.7	45.7	416869			0
35 12/08/2023	6:45:00 AM	55.7	46.6	46.6	371535			0
36 12/08/2023	7:00:00 AM	54.9	44.6	48	309030		1873681 56.7	0
						4264097		0
1 12/08/2023	10:15:00 PM	49.1	38.6	30.4	81283			0
2 12/08/2023	10:30:00 PM	48	38.5	30.7	63096			Ö
3 12/08/2023	10:45:00 PM	48.7	38.8	30.7	74131			0
4 12/08/2023	11:00:00 PM	46.6	35.6	30.7	45709		264219 48.2	0
5 12/08/2023	11:15:00 PM	50.2	40.5	30.8	104713			0
6 12/08/2023	11:30:00 PM	48.6	36.1	31.2	72444			0
7 12/08/2023	11:45:00 PM	46.8	33.5	31.4	47863			0
8 13/08/2023	12:00:00 AM	46.6	33.3	31.5	45709		270728 48.3	Ö
							270726 46.3	
9 13/08/2023	12:15:00 AM	46	33.4	31.5	39811			0
10 13/08/2023	12:30:00 AM	44.4	32.4	31.8	27542			0
11 13/08/2023	12:45:00 AM	46.8	31.8	32.4	47863			0
12 13/08/2023	1:00:00 AM	42.8	31.2	32.4	19055		134271 45.3	0
13 13/08/2023	1:15:00 AM	40.2	30.7	32.5	10471			0
14 13/08/2023	1:30:00 AM	40.2		32.7	10471			0
			31.5					
15 13/08/2023	1:45:00 AM	37	30.8	32.7	5012			0
16 13/08/2023	2:00:00 AM	47	33.2	33.1	50119		76073 42.8	0
17 13/08/2023	2:15:00 AM	44.9	31.5	33.2	30903			0
18 13/08/2023	2:30:00 AM	46.6	32.7	33.2	45709			0
19 13/08/2023	2:45:00 AM	43.7	31.4	33.3	23442			0
20 13/08/2023	3:00:00 AM	45.6	30.7	33.4	36308		136362 45.3	0
							130302 45.3	
Z 1 10/00/2020	3:15:00 AM	35.2	30.4	33.5	3311			0
22 13/08/2023	3:30:00 AM	44.7	32.4	35.6	29512			0
23 13/08/2023	3:45:00 AM	43.8	30.7	36.1	23988			0
24 13/08/2023	4:00:00 AM	42.2	33.1	36.4	16596		73408 42.6	0
25 13/08/2023	4:15:00 AM	43.5	32.7	37.1	22387			0
26 13/08/2023	4:30:00 AM	44.2	32.5	37.5	26303			0
27 13/08/2023	4:45:00 AM	43.9	33.2	38.5	24547			0
28 13/08/2023	5:00:00 AM	49.1	37.5	38.6	81283		154520 45.9	0
29 13/08/2023	5:15:00 AM	47.6	37.1	38.8	57544			0
30 13/08/2023	5:30:00 AM	46.9	36.4	40	48978			0
31 13/08/2023	5:45:00 AM	50.3	40	40.5	107152			0
32 13/08/2023	6:00:00 AM	54.3	40.9	40.9	269153		482827 50.8	0
							402021 00.0	
	6:15:00 AM	57.1	46.5	42.3	512861			0
34 13/08/2023	6:30:00 AM	55.3	44.8	44.2	338844			0
35 13/08/2023	6:45:00 AM	53.5	42.3	44.8	223872			0
36 13/08/2023	7:00:00 AM	53.7	44.2	46.5	234423		1310001 55.2	0
	•					2,902,408.02		0
1 13/08/2023	10:15:00 PM	45	39.7	39.1	31623			Ō
2 13/08/2023	10:30:00 PM	46.7	39.5	39.3	46774			Ö
3 13/08/2023		45.7	39.1	39.4				0
	10:45:00 PM				37154			
4 13/08/2023	11:00:00 PM	47	39.4	39.4	50119		165669 46.2	0
5 13/08/2023	11:15:00 PM	45.4	39.6	39.5	34674			0
6 13/08/2023	11:30:00 PM	47.1	40.2	39.5	51286			0
7 13/08/2023	11:45:00 PM	50.3	40.8	39.5	107152			0
8 14/08/2023	12:00:00 AM	46.6	39.7	39.6	45709		238821 47.8	Ö
							20021 47.0	0
9 14/08/2023	12:15:00 AM	46.8	39.3	39.6	47863			
10 14/08/2023	12:30:00 AM	48.2	39.6	39.6	66069			0

0		60256	39.7	39.8	47.8	12:45:00 AM	1 14/08/2023
ō	218857 47.4	44668	39.7	39.5	46.5	1:00:00 AM	2 14/08/2023
0		25704	39.7	39.7	44.1	1:15:00 AM	3 14/08/2023
Ő		9772	39.7	39.4	39.9	1:30:00 AM	4 14/08/2023
0		54954	39.8	39.7	47.4	1:45:00 AM	5 14/08/2023
0	125104 45.0	34674	39.8	39.9	45.4	2:00:00 AM	5 14/08/2023
0	123104 43.0	25119	39.9	39.6	44	2:15:00 AM	7 14/08/2023
0		27542	39.9	39.5	44.4	2:30:00 AM	3 14/08/2023
0		63096	39.9	39.9	44.4	2:45:00 AM	9 14/08/2023
0	143299 45.5		39.9	39.9	44.4		
	143299 45.5	27542				3:00:00 AM	
0		35481	40	39.9	45.5	3:15:00 AM	1 14/08/2023
0		48978	40.2	39.8	46.9	3:30:00 AM	2 14/08/2023
0		72444	40.3	40	48.6	3:45:00 AM	3 14/08/2023
0	238186 47.7	81283	40.8	40.3	49.1	4:00:00 AM	14/08/2023
0		95499	40.8	40.8	49.8	4:15:00 AM	5 14/08/2023
0		123027	42	42	50.9	4:30:00 AM	5 14/08/2023
0		169824	42.5	42.5	52.3	4:45:00 AM	7 14/08/2023
0	663773 52.2	275423	44.2	44.4	54.4	5:00:00 AM	3 14/08/2023
0		257040	44.4	44.2	54.1	5:15:00 AM	9 14/08/2023
0		407380	47.1	47.1	56.1	5:30:00 AM	14/08/2023
0		758578	49.6	49.6	58.8	5:45:00 AM	1 14/08/2023
0	2446290 57.9	1023293	50.5	51.6	60.1	6:00:00 AM	2 14/08/2023
0		1148154	51.4	52.3	60.6	6:15:00 AM	3 14/08/2023
0		776247	51.6	52	58.9	6:30:00 AM	1 14/08/2023
0		891251	52	51.4	59.5	6:45:00 AM	5 14/08/2023
0	3838945 59.8	1023293	52.3	50.5	60.1	7:00:00 AM	6 14/08/2023
0	8,078,943.39		,				
0		34674	29.4	35.3	45.4	10:15:00 PM	1 14/08/2023
0		64565	29.7	32.5	48.1	10:30:00 PM	2 14/08/2023
0		31623	30	31.9	45	10:45:00 PM	3 14/08/2023
0	154304 45.9	23442	30.2	32	43.7	11:00:00 PM	14/08/2023
0		12303	30.3	31.4	40.9	11:15:00 PM	5 14/08/2023
Ö		74131	30.3	33.1	48.7	11:30:00 PM	5 14/08/2023
0		19055	30.4	29.7	42.8	11:45:00 PM	7 14/08/2023
0	134329 45.3	28840	30.5	29.4	44.6	12:00:00 AM	3 15/08/2023
0	134328 43.3	12589	30.6	31.3	41	12:15:00 AM	9 15/08/2023
0		58884	31.1	31.1	47.7	12:30:00 AM	0 15/08/2023
0		20893	31.1	30.5	43.2	12:45:00 AM	1 15/08/2023
0	139140 45.4	46774	31.2	30.3	46.7	1:00:00 AM	2 15/08/2023
0	139140 45.4	33884	31.2	30.3	45.3	1:15:00 AM	3 15/08/2023
0		22387	31.2	30.3	43.5	1:30:00 AM	4 15/08/2023
0	000404	158489	31.4	30	52	1:45:00 AM	5 15/08/2023
0	268464 48.3	53703	31.4	30.4	47.3	2:00:00 AM	5 15/08/2023
0		25704	31.9	31.2	44.1	2:15:00 AM	7 15/08/2023
0		74131	32	31.1	48.7	2:30:00 AM	3 15/08/2023
0		19055	32.1	30.6	42.8	2:45:00 AM	9 15/08/2023
0	147073 45.7	28184	32.5	31.4	44.5	3:00:00 AM	15/08/2023
0		67608	32.8	32.1	48.3	3:15:00 AM	1 15/08/2023
0		21380	33	31.2	43.3	3:30:00 AM	2 15/08/2023
0		37154	33.1	33	45.7	3:45:00 AM	3 15/08/2023
0	157044 45.9	30903	34.7	32.8	44.9	4:00:00 AM	4 15/08/2023
0		81283	35.3	34.7	49.1	4:15:00 AM	5 15/08/2023
0		125893	36	36	51	4:30:00 AM	5 15/08/2023
0		102329	38.3	38.3	50.1	4:45:00 AM	7 15/08/2023
0	618534 51.9	309030	42	42	54.9	5:00:00 AM	3 15/08/2023
0		426580	43.7	43.7	56.3	5:15:00 AM	9 15/08/2023
0		524807	45	45	57.2	5:30:00 AM	0 15/08/2023
0		588844	47.5	47.5	57.7	5:45:00 AM	1 15/08/2023
0	2563524 58.1	1023293	49.3	49.3	60.1	6:00:00 AM	2 15/08/2023
0		1023293	50.6	51.2	60.1	6:15:00 AM	3 15/08/2023
		812831	50.7	52	59.1	6:30:00 AM	15/08/2023
0			55.1				
0		1071510	51.2	50.6	60 3	6:45:00 AM	5 15/08/2022
0 0 0	3758781 59.7	1071519 851138	51.2 52	50.6 50.7	60.3 59.3	6:45:00 AM 7:00:00 AM	5 15/08/2023 5 15/08/2023

Document Set ID: 1906122