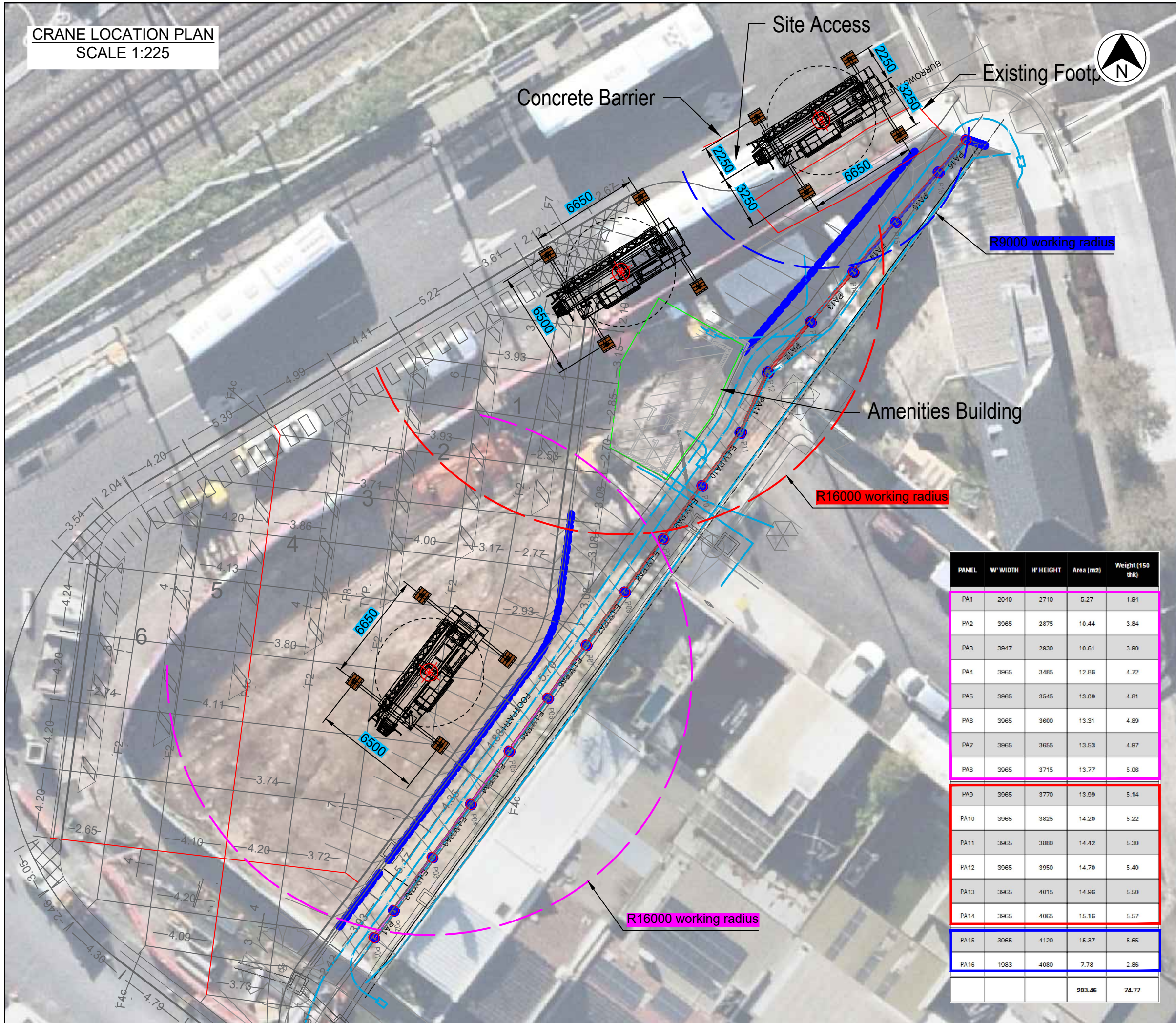


CRANE LOCATION PLAN
SCALE 1:225



EXPERT LIFT SOLUTIONS
LIFT DESIGN MADE SIMPLE

CLIENT	SAWYER CRANES		
PROJECT	-		
LOCATION	117 RAILWAY RD SYDENHAM		
DRAWING TITLE	CRANE LOCATION PLAN		
LIFTED PIECE DESCRIPTION	NOISE WALL PANELS		
DRAWING NUMBER	ELS-25-017 -01	REV.	B
CHECKED BY			
SCALE	1:225 @ A3		
DATE	23.07.2025		

LIFT ANALYSIS

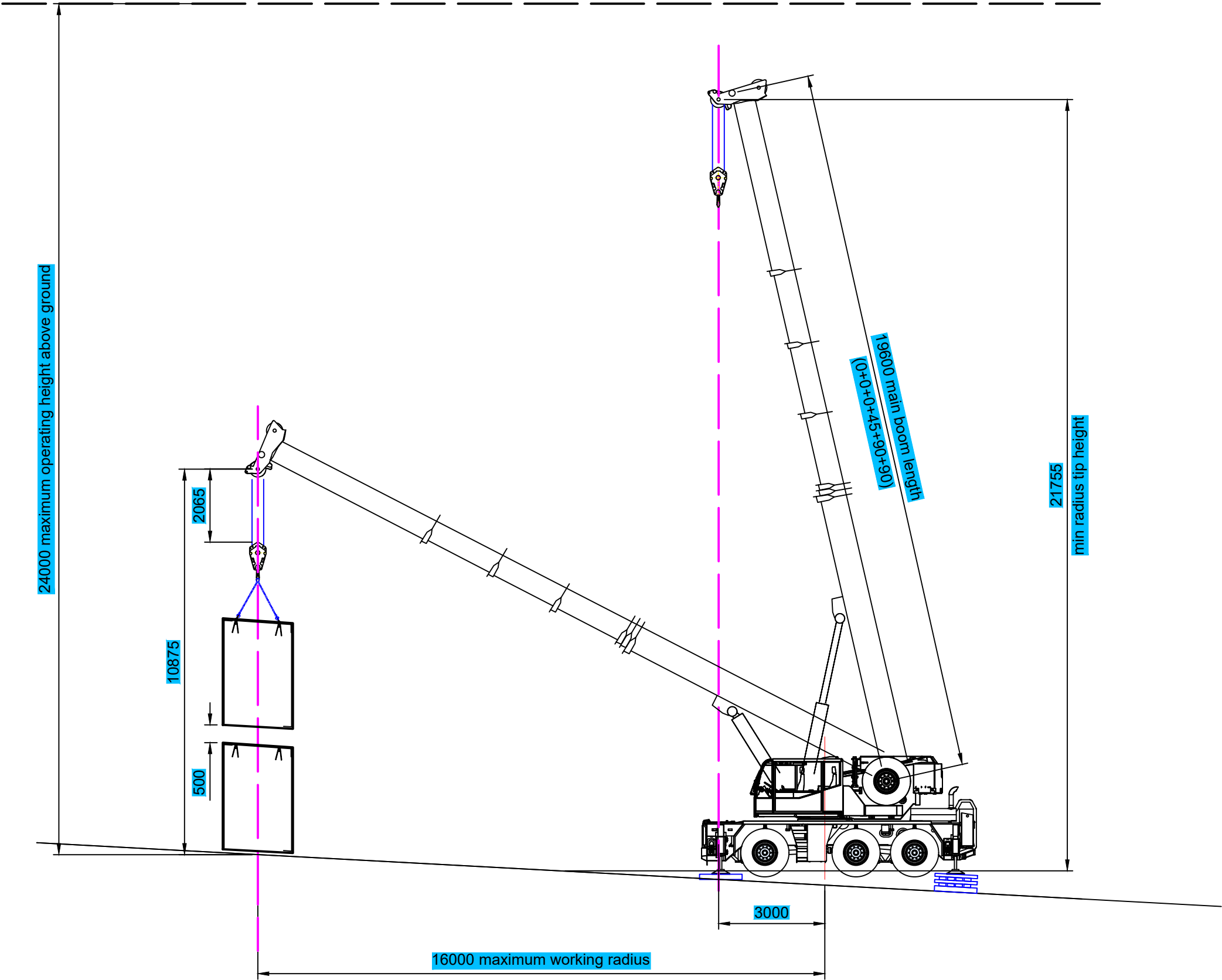
CRANE	
Make / Model / Serial No.:	DEMAG / AC55 CITY
Type (Slew, Artic, Crawler):	SLEW CRANE
Boom Length (m) & Sequence:	19.6m (0+0+0+45+90+90)
Attachments (Guy, Fly & etc.):	n/a
Counterweight (t):	8.8
Outrigger/Track/Artic. Config.:	6.65m (L) x 6.5m (W)
HOOKS	
Hook Capacity (t):	30
Parts of Line:	2
Line Pull (t)	4.6
Combined Hook & Line Pull (t):	9.2
Hook Description:	3-SHEAVE HOOK
% of Hook Utilization:	65.7
LOAD	
Mass of Piece to be Lifted (t):	5.65
Mass of Main Hook (t):	0.35
Mass of Aux. Hook (t):	n/a
Hoist Rope (Main & Aux.) (t):	n/a
Rigging / Extras (t):	0.044
Fly / Rooster (t):	n/a
Net Load (t):	6.04
Load Factor:	-
Gross Load (t):	6.04
Crane Capacity (t):	7.1
Chart Radius (m):	16
% of Crane SWL:	85.13
Max. / Min. Radius (m):	16.0 / 3.0
SITE CONDITIONS	
Max. Outrigger/Track Load (t):	20.0
Pad Weight (t):	0.2
Pad/Track/Timber Area (m²)	0.80 x 0.80 = 0.64
Applied Pressure (kPA):	309.6
Allowable Pressure (kPA):	TBC by Client
Max. Wind Speed (m/s):	9.8

PANEL	W' WIDTH	H' HEIGHT	Area (m2)	Weight (150 thk)
PA1	2040	2710	5.27	1.94
PA2	3965	2875	10.44	3.84
PA3	3947	2930	10.61	3.90
PA4	3965	3485	12.86	4.72
PA5	3965	3545	13.09	4.81
PA6	3965	3600	13.31	4.89
PA7	3965	3655	13.53	4.97
PA8	3965	3715	13.77	5.06
PA9	3965	3770	13.99	5.14
PA10	3965	3825	14.20	5.22
PA11	3965	3880	14.42	5.30
PA12	3965	3950	14.70	5.40
PA13	3965	4015	14.96	5.50
PA14	3965	4065	15.16	5.57
PA15	3965	4120	15.37	5.65
PA16	1983	4080	7.78	2.86
			203.46	74.77

CRANE ELEVATION
SCALE 1:125

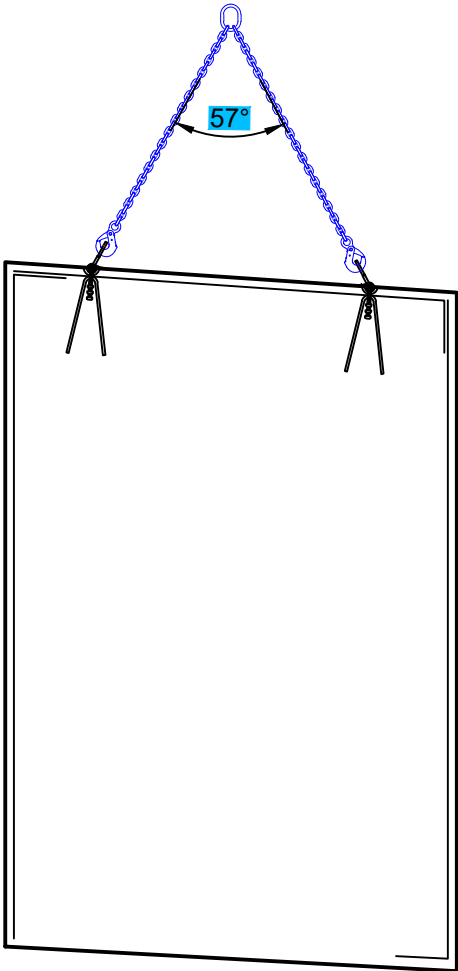
RIGGING DETAIL

NO.	TYPE	LENGTH (m)	Qty.	W.L.L.	Wt./each (kg)	Total Weight(kg)
1	10mm 2-LEG G100 CHAIN SET	6.5	1	6.9000	30	30.0
2	REID EDGE LIFTER		2	8.5 or 10	7	14.0
TOTAL RIGGING WEIGHT (KG)						44.0



EXPERT LIFT SOLUTIONS
LIFT DESIGN MADE SIMPLE

CLIENT	SAWYER CRANES		
PROJECT	-		
LOCATION	117 RAILWAY RD SYDENHAM		
DRAWING TITLE	CRANE ELEVATION PLAN		
LIFTED PIECE DESCRIPTION	NOISE WALL PANELS		
DRAWING NUMBER	ELS-25-017 -02	REV.	A
CHECKED BY			
SCALE	1:125 @ A3		
DATE	18.07.2025		



AC55CITY

Capacities on **Main Boom**

HA

Capacity (t) = Load + Hook Block

Slew Range
Outrigger Length
Outrigger Width
Counterweight

0-360 °
6,65 m
6,5 m
8,8 t

Main Boom Length (m)
Radius (m)

	19,6	19,6	19,6	19,6	20,8	22	22	22
3	23,7	22,9	20,1	20,1	17	34,2	27,9	28
3,5	22,5	22,4	18,9	18,9	16,1	33,3	26,3	26,3
4	21,3	21,9	17,7	17,8	15,2	31,6	24,7	24,6
4,5	20,1	21,3	16,7	16,8	14,4	30,2	23,4	23,3
5	19	20,6	15,6	15,8	13,6	28,9	22,1	22
6	17,4	19,1	14,3	14,4	12,4	27	19,8	19,7
7	15,8	17,5	12,9	13,1	11,3	24,9	18,1	18,2
8	14,4	16,1	11,7	11,8	10,3	21	16,5	16,6
9	13,4	15,2	10,9	11,1	9,5	17,3	14,9	15
10	12,5	14,2	10,1	10,3	8,9	14,4	14	14
11	11,6	13,2	9,3	9,5	8,3	12,2	12,5	12,6
12	10,8	11,5	8,7	8,9	7,7	10,5	10,8	10,9
13	9,9	10,1	8,2	8,4	7,2	9,2	9,4	9,6
14	8,8	9	7,7	7,9	6,8	8,1	8,3	8,5
15	7,9	8,1	7,3	7,5	6,4	7,2	7,4	7,5
16	7,1	7,3	6,9	7,1	6,1	6,5	6,7	6,8
17					5,8	5,8	6	6,1
18						5,3	5,4	5,6
Horizontal Capacity (t)	6,8	7	6,9	7,1	5,7	4,8	5	5,1
Unpinned Capacity (t)	23,7	22,9	20,1	20,1	17	21,9	23,1	23,1
Single hook block	6	6	5	5	4	8	7	7
LK-Code	33	34	35	36	37	38	39	40
Tele 1 (%)	0	0	0	0	0	45	0	0
Tele 2 (%)	0	0	0	0	0	45	90	45
Tele 3 (%)	45	45	0	0	0	45	45	90
Tele 4 (%)	90	45	90	45	45	45	45	45
Tele 5 (%)	45	45	90	90	100	45	45	45
Tele 6 (%)	45	90	45	90	100	45	45	45

OUTRIGGER REACTION

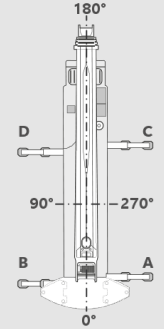
AC 55-City (Standard)

Main boom (without jib in transport or working position)

CONFIGURATION

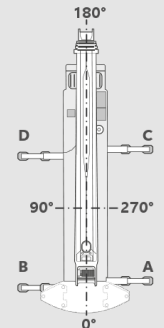
Jib - Configuration [m]	0	Slewing angle	Maximum ground bearing load in service in working area	Number of ropes
Jib - Adjustment angle [°]	0	Hook block [t Lifting load]	Type: 32 t / Weight: 0,35 t	Usable rope length [m]
Boom length [m]	19.6 m	Weight of slings [t]	0.044 t	Underfloor height [m]
Boom extension sequence [%]	0-0-0-45-90-90	Working radius [m]	16.0 m	Center of gravity X (to slewing center [m])
Counterweight [t]	8.8 t	Boom angle [°]	15.6 °	Center of gravity Y (to slewing center [m])
Outrigger base [m]	6.5 m	Lifting load [t] (max. 6.7)	5.65 t	

GROUND FORCES [t]

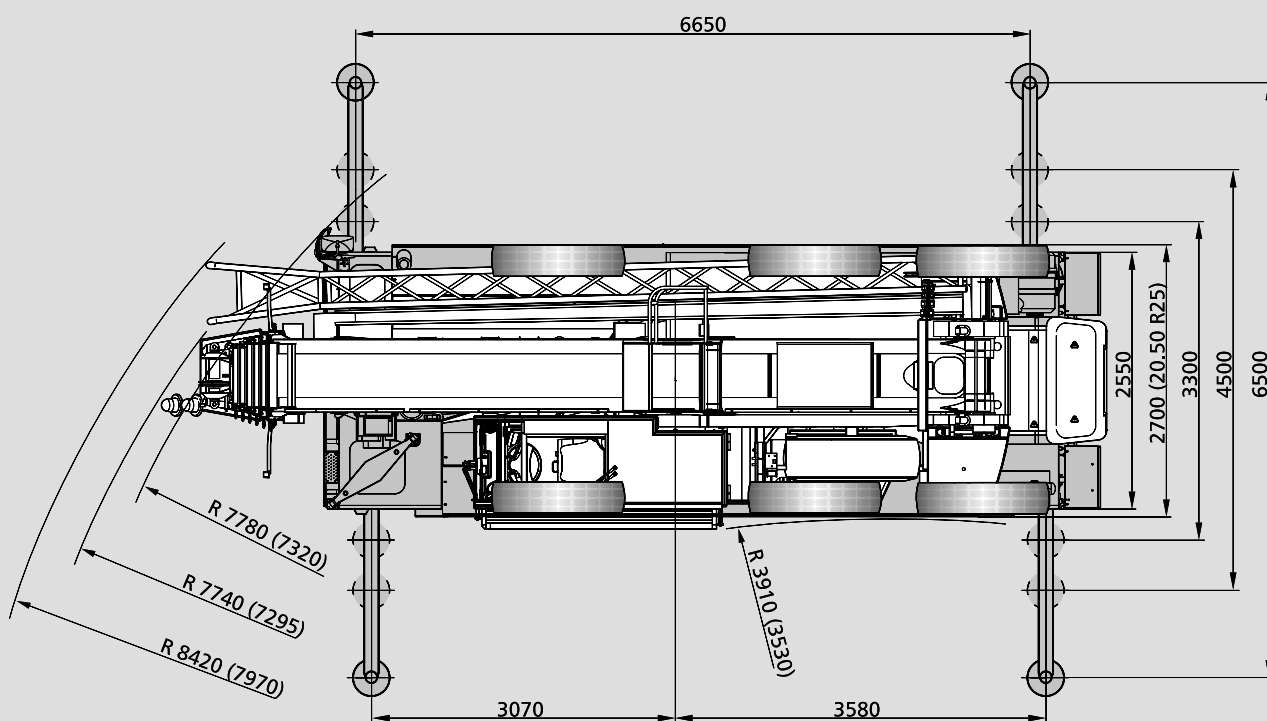
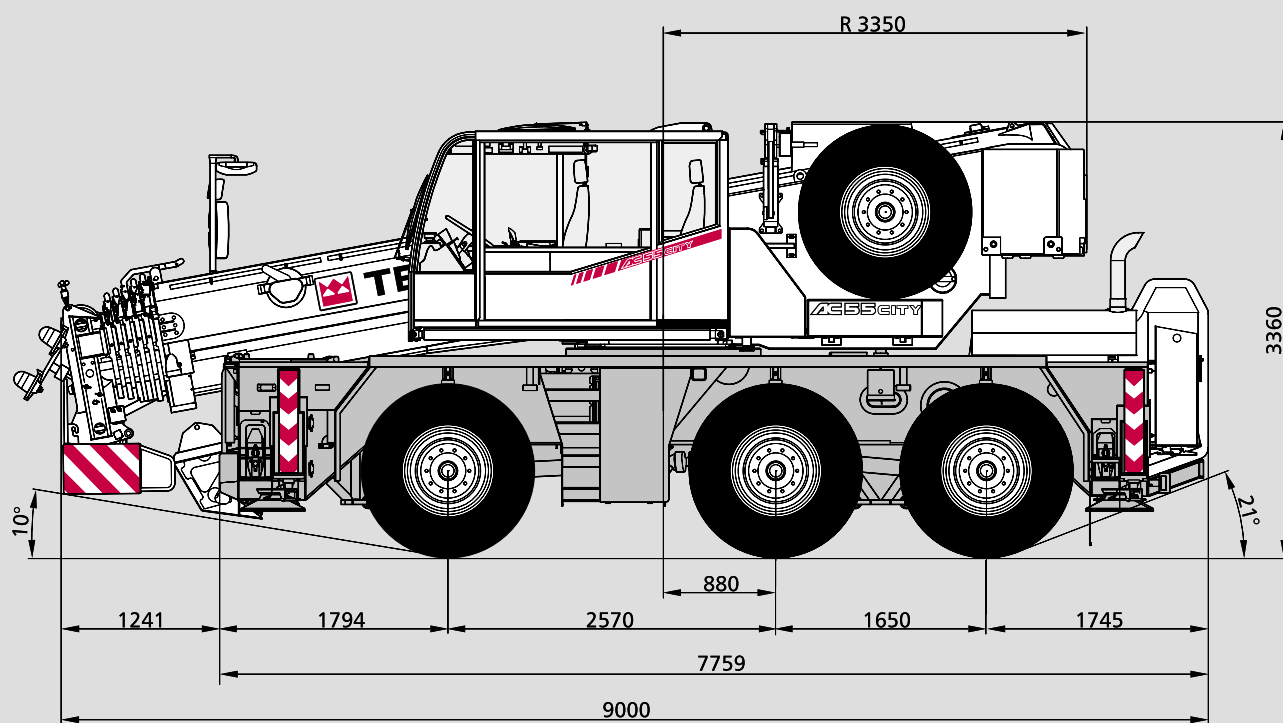
		Outrigger			
		C	A	B	D
	Slewing angle [°]				
	46.0	2	10	20	11
	134.0	11	1	11	20
	226.0	20	11	1	11
	315.0	11	20	10	2

Maximum ground bearing load in service in working area

At 0 t lifting load

		Outrigger			
		C	A	B	D
	Slewing angle [°]				
	47.0	11	9	8	9
	135.0	10	10	9	8
	226.0	8	9	10	10
	316.0	10	8	9	11

Maximum ground bearing load in service in working area



HOOK BLOCKS - WITH CRANE

Description	Auxiliary hook	Manufacturer's Identification	OK
		55178840	
Branded WLL (kg)	OK	Safety Latches	OK
5000kg		Sheaves and Bearings	N/A
		NA	
Swivel	OK	Hook Shank Retainer	OK
Branded WLL (t)		Branded with Tare Weight (kg)	OK
5t		130kg	

HOOK BLOCKS - WITH CRANE No. 2

Description	3 Sheave Hook Block	Manufacturer's Identification	OK
		15049	
Branded WLL (kg)	OK	Safety Latches	OK
30000kg		Sheaves and Bearings	OK
		3	
Swivel	OK	Hook Shank Retainer	OK
Branded with Tare Weight (kg)	OK		
350kg			

Revolving Frame and Cabin

Frame	OK	Heater	OK
Counterweight Attachment - Security	OK	Air Conditioner	OK
Counterweight Hazard Striping	OK	Gauges	OK
Boom Mounting Lugs	OK	Anti-Two block Alarms	OK
Boom Mounting Pins	OK	Horn	OK
Lift Cylinder Lugs	OK	Tested & Functional	
Lift Cylinder Pins	OK	Access Steps	N/A
Cab Glass and Mirrors	OK	Doors and Locks	OK
Sheet Metal / Guards	OK	Crane Level Indicator	OK
Seat Assembly	OK	Outrigger Controls	OK
Throttle	OK	Cab Mounts	OK
Dead Man Controls	OK	Front Wiper	OK
Tested & Functional		Roof Wiper	REMEDIED
Free Fall Lockout	N/A	Windscreen Wiper / Washer	OK
Decals / Signs - In English	REMEDIED	Switches and Relays	OK
Load Charts in English as per AS1418	OK	Upper Steering	OK
Control Levers - Clearly Marked	OK	Upper Braking	OK
Control Cables / Pilot Hoses	N/A		



ALL TERRAIN CRANE LOAD INDICATOR CERTIFICATION

Certificate Number: NSW202541 CraneSafe Assessment Number: ATC A 202541-16



CraneSafe®

Div of The Crane Industry Council of Australia
ABN 73 002 565 773

PO Box 136
MOUNT WAVERLEY VIC 3149
Phone: +61 (03) 9501 0078
Email: assessments@cranesafe.com.au

Inspection Date: 10/06/2025

Renewal Date: 10/06/2026

Issued Date: 11/06/2025

COMPANY

Kayer Services Pty Ltd

ABN 43 131 191 560

38 Tomah Cresnet THE PONDS NSW 2769

REPRESENTATIVE

Mark Sawyer Phone: 0400 301 233

Email: mahdisawyer@gmail.com

ASSESSED BY

Michael Refalo

Reg No: NSW1155

Phone: 0416 227 678

Email: mr.craneworks@outlook.com

COMPANY

Mr Craneworks Pty Ltd

PO Box 413 CRANE BROOK

NSW 2749

Tadano Demag AC55CITY

LOWER HOURS

0

UPPER HOURS

21549

SERIAL NUMBER

15049

PLANT NUMBER

NA

YEAR OF MANUFACTURE

2005

RATED CAPACITY INDICATOR (RCI)

Load Chart Reference Number DEMAG AC55CITY LK CODE 79

PRINTED CHART - NO LOAD

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	54.00	54.50
Boom Length, m	40.00	39.80
Radius, m	20.00	20.00
Load, kg	3,000.00	3,000.00

RATED CAPACITY LIMITER (RCL)

Load Chart Reference Number DEMAG AC55CITY LK CODE 79

RATED LOAD - BOOM FULLY EXTENDED

	Rated Capacity Indicator	Measured
Radius, m	24.70	24.70
Load, kg	1,700.00	1,415.00

RATED LOAD IN STABILITY

	Rated Capacity Indicator	Measured
Radius, m	24.70	24.70
Load, kg	1,700.00	1,415.00

LINE PULL TEST

	Rated Capacity Indicator	Measured
Load, kg	4,600.00	4,495.00

WINCH BRAKE TEST

	Rated Capacity Indicator	Measured
Load, kg	4,600.00	4,495.00

At the time of test, the load indicator was reading in accordance with the requirements of AS1418.1 & AS1418.5 and the load charts supplied with the crane

Michael Refalo



Kikhel Consulting Engineers

Precast

Tilt-up

Steel

Panels Lifting Design Certification

10 July, 2025

Att: Nick Petruszenko

Company: Solid Precast Pty Ltd

Dear Nick,

Project: Q892 GC Civil - Sydenham Bus Layover - Noise Wall Panels

I did prepare the design and I certify that the 'Engineering for Lifting' of panel units, drawing Nos: 518, PA1 to PA16, Rev. C, comply with the following provisions of the standards:

- AS3850.2015 – Prefabricated Concrete Elements
- AS1170.2 – Structural Design Actions
- AS3600.2018 – Concrete Structures
- Tilt-up and Precast Industry Practices

Design Factors:

- Minimum concrete strength of **15MPa** for de-moulding & **25MPa** for installation – **U. N. O**
- Oiled steel casting bed, $K_s = 1.2$
- Handling by stationary crane in yard and on-site, $K_d = 1.2$
- Minimum factor of safety (FOS) = 2.25
- Rigging as per AS3850.2015. Chains lengths 60 deg. max. at the hook

Lifting Anchors:

- Use Reid 8.5 or 10t edge lifters, Reid Part No: **3DX8.5** or **3DX-10**.
Install with N16 'U' tension bars, 500mm long legs, through tension bar hole

We further certify that provided the panels are cast and erected in accordance with the shop drawings, will be capable of sustaining the design loads during de-moulding and site handling.

Regards,

Steven Kikhel

Principal Engineer

BEng MEng CPEng NER RPEQ 12716

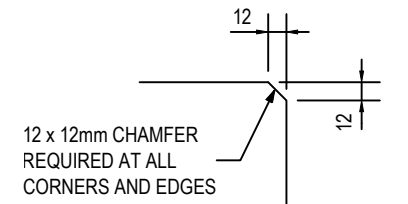
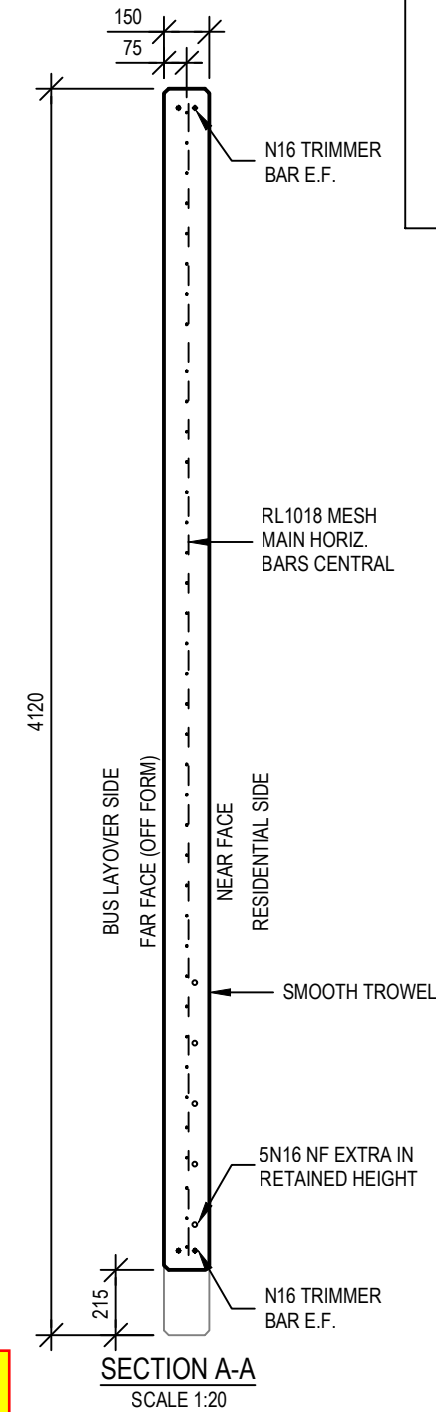
Mob: 0403 351 013

Kikhel Consulting Engineers

P: 0403 351 013

E: stevenkikhel@gmail.com

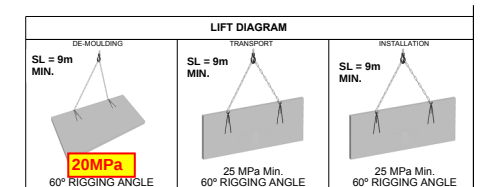
ABN: 49 822 536 421



TYPICAL CHAMFER DETAIL



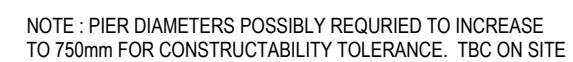
Q892 GC Civil - Sydenham Bus
Layover - Precat List Cert - rev 1.pdf



Edge lifters to be Reid 3DX10A or 3DX-8.5T, installed with N16-500 leg tension bar as per Reid technical data

REFER TO DRAWINGS S.02 AND S.21 FOR PRECAST NOTES
SPECIFICATIONS: TNSW B349, AS3600

DESCRIPTION							CAST IN ITEMS								PANEL DETAILS									
REINFORCEMENT : RL1018 MESH CENTRED N16 TRIMMER BARS, EACH FACE N16 ADDITIONAL REINF NF, RETAINED HEIGHT		REINFORCEMENT COVER (mm)					EDGE LIFTERS	QTY	LIFTER TYPE	FACE		QTY	FERRULES	FINISH N / S	CHAMFER	TASK	DATE	INITIAL						
		TOP / NF	40	BOT / FF	40	EDGE	40		TOP N16	2	REID 3DX 8.5 T				CLASS 2 SMOOTH TROWEL	12 x 12	FITMENT							
		DESIGN CONCRETE GRADE : f'c : 40 MPa MIX : S40-SOL-2ACC					TABLE POSITION									REO								
							MUST BE SIGNED BY SUPERVISOR								FORMWORK									
DEMOULDING MINIMUM : CONCRETE f'c AT LIFTING 20 MPa		PANEL PROPERTIES : AREA (M ²) 15.374 VOLUME (M ³) 2.306 MASS (t) 5.650							CONDUITS 32mm DIA.	1						SUPERVISOR		PRE-POUR						
							POST-POUR																	
REV.	DATE	AMENDMENT / ISSUE DESCRIPTION					BY			SCALE AT A3 SIZE: 1:25			DESIGN ENGINEER: ROC ENGINEERING DESIGN 1/129 CROWN STREET WOLLONGONG NSW 2500		CONTRACTOR:  60 Doyle Avenue (PO Box 194) Unanderra NSW 2526 Ph: (02) 4239 5900 E: mail@gccivil.com.au W: www.gccivil.com.au		CLIENT: FORD CIVIL CONTRACTING		PROJECT: NOISE WALL SYDENHAM STATION BUS LAYOVER CNR BURROWS AVENUE & RAILWAY ROAD		TITLE PRECAST PANEL PA15 DETAILS		GCC PROJECT No: 518	
A	24-06-2025	ISSUED FOR APPROVAL					I.S.			GEOTECHNICAL: DURKIN CONSTRUCTION P/L UNIT 3, 50-52 DERBY STREET SILVERWATER NSW 2128			SURVEYOR:								ISSUE STATUS: ISSUED FOR CONSTRUCTION		ISSUE: C	
B	26-06-2025	CONDUIT LOCATIONS REVISED					I.S.																	
C	08-07-2025	ISSUED FOR CONSTRUCTION					I.S.																	





Reg No.: 25/0561

Wednesday, 16 July 2025

To: ATLAS CRANES

Notification to Proponent Crane Operation

Dear Sir / Madam,

Application for approval of a controlled activity pursuant to:

s.183 Airports Act - Notification of decision under Reg 15A(2) of the Airports (Protection of Airspace) Reg's 1996

Proposed Activity: MOBILE CRANE
Location: 117 RAILWAY ROAD SYDENHAM
Proponent: ATLAS CRANES
Date: 16/07/2025

Sydney Airport received the above application from you.

This location lies within an area defined in schedules of the Civil Aviation (Buildings Control) Regulations which limit the height of structures to 15.24 metres above existing ground height (AEGH) without prior approval of the Civil Aviation Safety Authority.

The application sought approval for the MOBILE CRANE to a height of 32 metres Australian Height Datum (AHD).

In my capacity as Senior Airspace Protection Officer, and an authorised person of the Civil Aviation Safety Authority (CASA) under Instrument Number: CASA 229/11, in this instance, I have no objection to the operation to a maximum height of 32 metres AHD. Should you wish to exceed this height a new application must be submitted.

Sydney Airport

Sydney Airport Corporation Limited ACN 082 578 809 — The Nigel Love Building, 10 Arrivals Court, Locked Bag 5000
Sydney International Airport NSW 2020 Australia — Telephone +61 2 9667 9111 — sydneyairport.com.au

SYD Classification: Confidential

The application is approved, subject to the following conditions:

- **A valid Airport Works Plan (AWP) must be used in conjunction with this approval.**
- **Maximum Operating Height:** 32 metres AHD or 24 metres above existing ground height (AEGH)
- **Date of Operation:** 31/07/2025 to 03/08/2025 only.
- **Time of Operation:** 07:00 to 15:30 Local Time
- **Obstacle Marking:** Not Required
- **Obstacle Lighting:** Not Required
- **Outside Operating Hours or Not in Use:** The crane must be lowered to its resting height.
- **Contact:**
 - The crane operator/site manager is to contact the Airfield Operations Supervisor on 0419 278 208 or 9667 9824 prior to and after completion of the daily crane operation.
 - The crane operator/site manager is to confirm a permanent line of communication with the Airfield Operations Supervisor to enable the crane to be lowered if required.
- **Directives:**
 - In case of an emergency or when instructed by the Airfield Operations Supervisor the crane must be lowered within 15 minutes.
 - The Senior Tower Controller or Airfield Operations Supervisor will retain the overriding authority to require the lowering of the crane at any time and for any reason deemed necessary.

Note:

1. a person who conducts a controlled activity otherwise than with an approval commits an offence against the Act.
 - s. 183 and s. 185 Airports Act 1996.
 - Penalty: 250 penalty units.
2. if a structure is not authorised, the Federal Court may order a person to carry out remedial works, mark or light, or reduce the height of or demolish, dismantle or remove a structure.

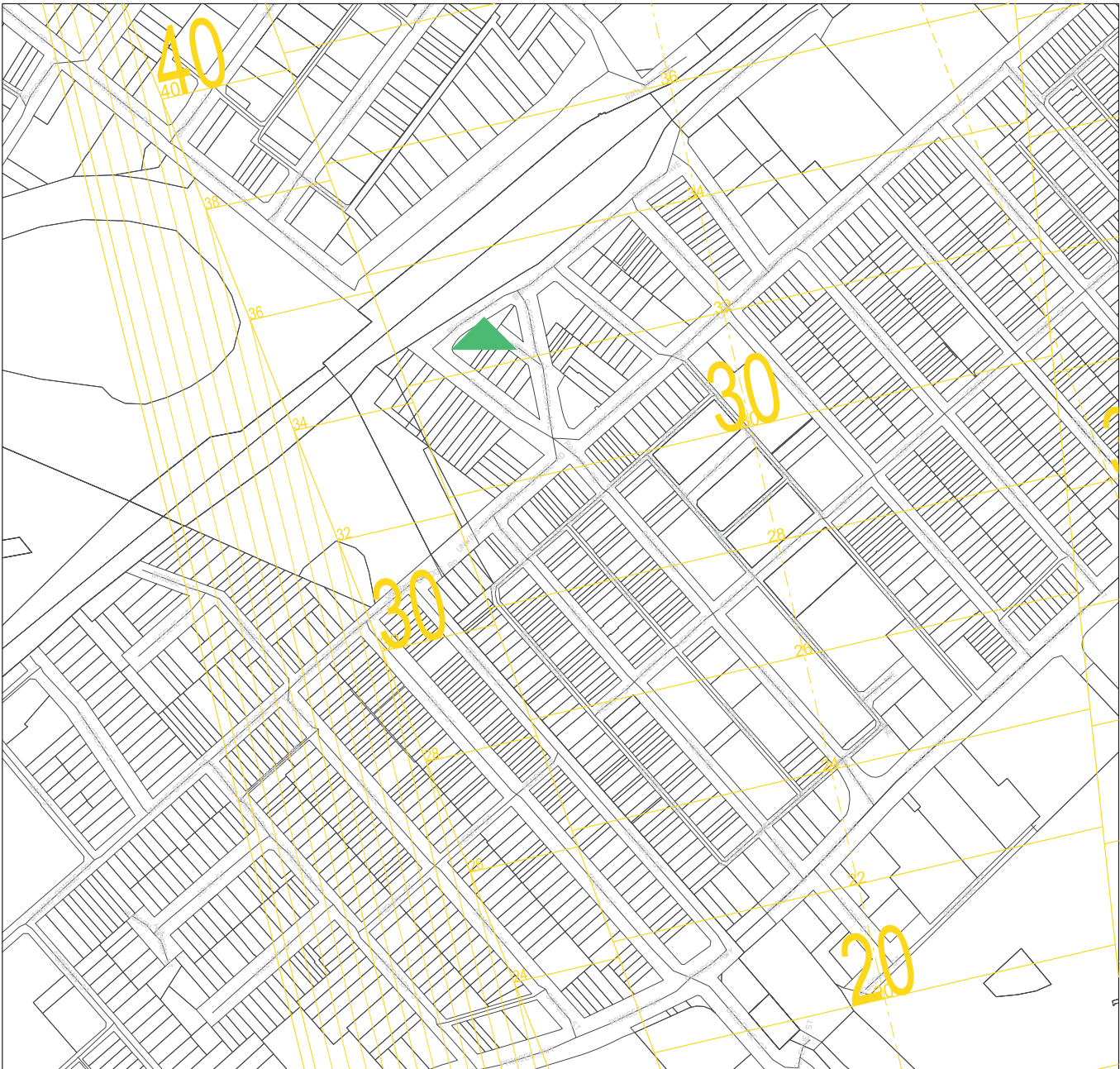
Sincerely,



Robert King
Senior Airspace Protection Officer

Sydney Airport

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ACTIVITY DETAILS

MGA94 COORD (E): 330433.986
MGA94 COORD (N): 6245687.605
BEARING FROM ARP: 328 ° 41 ' 57 " DISTANCE: 3531.55m / 1.91NM
OLS (mAHD): 32.00 TYPE: INNER HORIZONTAL
DEV / EQUIP HEIGHT: 32.00m (105ft) AHD / 24.00m (79ft) AGL
PENETRATION (m): 0.00
START DATE: 31/07/25 FINISH DATE: 03/08/25
START TIME: 07:00 FINISH TIME: 15:30
MARKING: No
LIGHTING: No LIGHTING TYPE:
AIRSERVICES No.:

TITLE

**CONTROLLED ACTIVITY ASSESSEMENT
LOCATION DIAGRAM
117 RAILWAY ROAD SYDENHAM**

MOBILE CRANE

APPLICANT DETAILS

APPLICANT NAME: **ATLAS CRANES**
CONTACT NAME: **Mr Wayne Fuller**
CONTACT PHONE: **0418 672 309**
CONTACT EMAIL: **wayne@atlascranes.com.au**

LEGEND

 DEVELOPMENT  MOBILE
 TOWER CRANE

OFFICER	DATE OUT	SCALE	SIZE
RK	16/07/25	1:5,000	A4



The Nigel Love Building
10 Arrivals Court
locked bag 5000
Sydney International Airport
NSW 2020 Australia
www.sydneyairport.com.au
ABN: 620 825 578 809

REGISTRATION No.
25/0561

SHEET
01