



LIFT PLAN

COVALENT LITHIUM
MANCAGE ACCESS

Revisions;

A	Issued For Approval	20-May-26	GM		
Rev	Description	Date	Prepared	Checked	Approved

Name

Signature

Date

For LPA Study created by Guy McGowan *Guy McGowan* 20-May-26

For Client Chkd / Appr. by

3rd Party Reviewer Chkd / Appr. by

DISCLAIMER;
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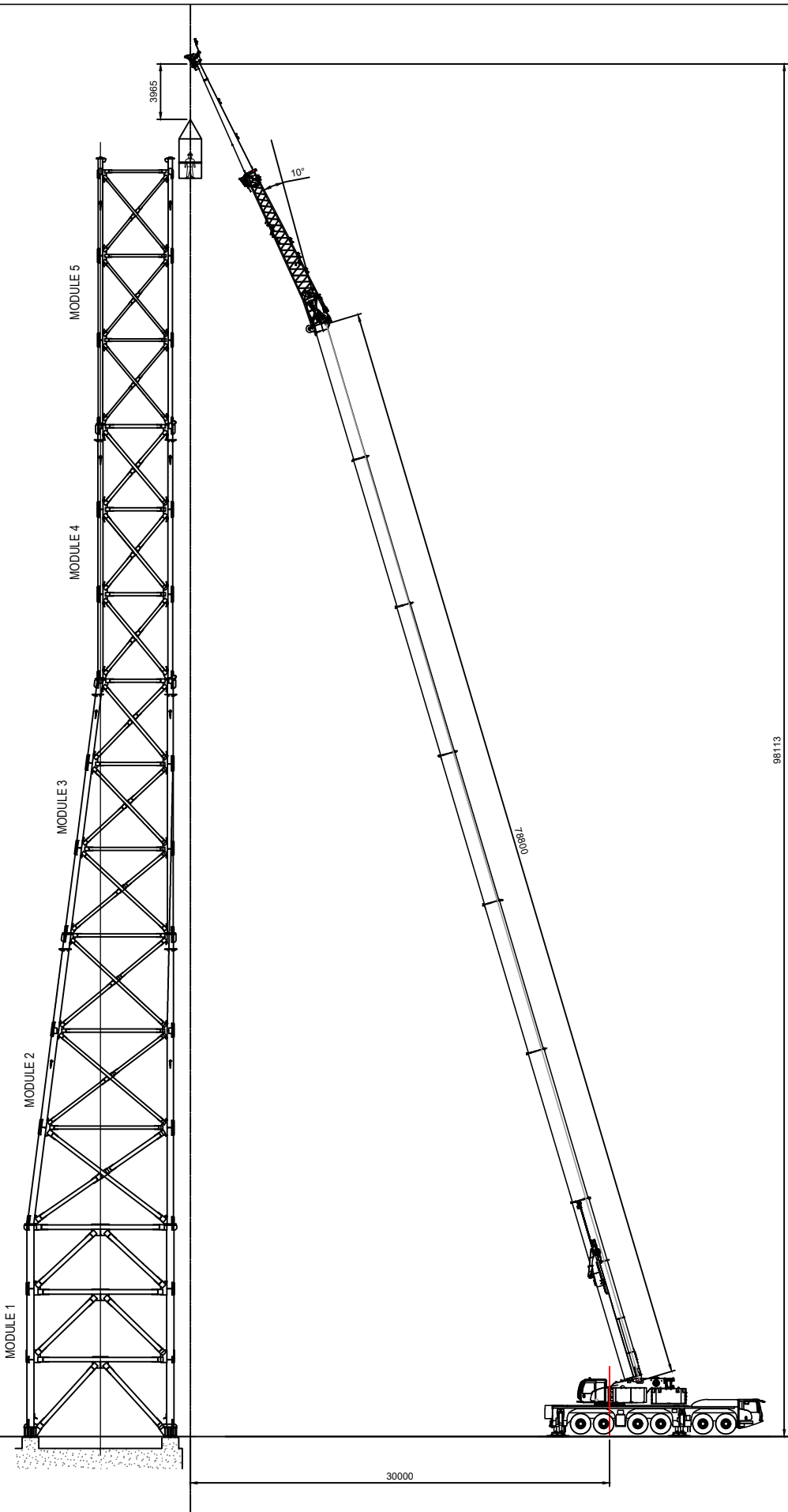
CRANE DETAILS -MANCAGE				
MAKE	DEMAG			
MODEL	AC300			
CRANE MRC	300	t		
LMI CODE	80			
CONFIGURATION	HAVHY			
COUNTERWEIGHT	49.8	t		
MAIN BOOM LENGTH	78.8	m		
MAIN BOOM CONFIG.	90,100,100,100,100,100	%		
JIB TYPE / OFFSET	HYD 10°	°		
JIB LENGTH	21	m		
MAIN / AUX. HOOK?	AUX			
OEM CHART WIND SPEED	9.8	m/sec		
LOAD DETAILS				
MAX. LOAD SHARE	500	kg		
CRANE COMPONENTS	740	kg		
RIGGING	310	kg		
TOTAL LIFT WEIGHT	1550	kg		
LIFT DETAILS - AS PER AS2550.1 2002, SECTION 6.19.2, CRANE USED WITH WORKBOX				
ADD 100% TO TLW	1550			
REQUIRED WLL	3100			
MAXIMUM LIFT RADIUS	30	m		
ACTUAL WLL AT MAX. RADIUS	4800	kg		
UTILISATION OF ACTUAL WLL	32.3	%		
SPARE CAPACITY	3250	kgs		
REEVING CHECK				
LINE PULL	11700	kg		
No. OF PARTS	1			
FACTORED LINE PULL	11700	kg		
LOAD TO HOOK	1550	kg		
REEVING UTILISATION	13.2	%		
GROUND BEARING PRESSURES (MAXIMUM)				
OUTRIGGER PAD SIZE	2.5	x	2.0	m
OUTRIGGER PAD AREA	5.00	m2		
OUTRIGGER PAD WEIGHT	1.0	t		
MAXIMUM JACK FORCE	38.0	t		
TOTAL DOWN FORCE	39.0	t		
PRESSURE UNDER PAD	7.8	t/m2		
PRESSURE UNDER PAD	76.5	kPa		

TOTAL LIFTED WEIGHT CALCULATIONS (ALL WEIGHTS IN KILOGRAMS)							
CRANE COMPONENTS - AC 300							
AUX. HOOK	WLL 12.5t					500	
AUX. ROPE	2.67	kg/m	90	m HEIGHT	1	FALLS	240
SUB TOTAL - CRANE COMPONENTS						740	
RIGGING COMPONENTS							
ITEM	DESCRIPTION			WEIGHT	QTY	MASS	
1	4 MAN MANCAGE			310	1	310	
SUB TOTAL - RIGGING COMPONENTS						310	
LOAD - MANCAGE MAXIMUM PAYLOAD						500	
TOTAL LIFTED WEIGHT						1550	



CRANE DETAILS - DUAL CRANE LIFT				
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P85400

Capacities on hydraulically
offsettable Main Boom Extension

HAVHY

Capacity (t) = Load + Hook Block

Slew Range 360 °
Jib Length 21 m
Angle of Jib 10 °
Outrigger length 8,68 m
Outrigger width 8,48 m
Counterweight 49,8 t

Main Boom Length (m)
Radius (m)

64	68,9	69	69	73,9	73,9	78,8
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20	6,2						
22	6,1	5,7	5,9	5,8			
24	6	5,6	5,8	5,7	5,3	5,4	
26	5,9	5,6	5,7	5,6	5,2	5,4	4,9
28	5,8	5,5	5,7	5,6	5,2	5,3	4,9
30	5,6	5,4	5,6	5,5	5,1	5,2	4,8
32	5,5	5,3	5,5	5,4	5,1	5,1	4,8
34	5,3	5,2	5,4	5,3	5	5,1	4,7
36	5,1	5,1	5,2	5,2	5	5	4,7
38	5	5	5,1	5	4,9	5	4,6
40	4,8	4,8	5	4,9	4,8	4,9	4,6
42	4,7	4,7	4,8	4,8	4,7	4,8	4,6
44	4,6	4,6	4,7	4,6	4,6	4,7	4,5
46	4,4	4,5	4	4,5	4,5	4,1	3,8
48	4,3	4,4	3,4	4,3	4	3,5	3,3
50	4,2	4,2	2,8	3,7	3,5	3	2,7
54	3,3	3,2	1,8	2,7	2,6	2	1,8
58	2,5	2,3		1,8	1,7	1,2	1
62	1,7	1,6		1			
66	1,1						
single hook block	2	2	2	2	2	2	2
LK-Code	73	74	75	76	77	78	80
Tele 1 (%)	0	0	90	45	45	90	90
Tele 2 (%)	90	100	90	90	100	90	100
Tele 3 (%)	90	100	90	90	100	90	100
Tele 4 (%)	90	100	90	90	100	90	100
Tele 5 (%)	90	100	90	90	100	90	100
Tele 6 (%)	90	100	45	90	100	90	100

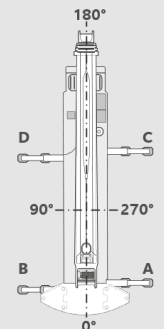
OUTRIGGER REACTION

AC 6.300-1 (Standard) Main boom with tiltable Jib

CONFIGURATION

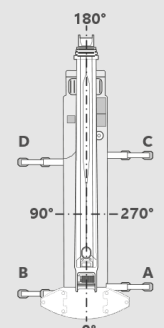
Jib - Configuration [m]	HAVHY21.0	Slewing angle	Maximum ground bearing load in service in working area	Number of ropes	1
Jib - Adjustment angle [°]	10°	Hook block [t Lifting load]	Type: 12 t / Weight: 0,50 t	Usable rope length [m]	266.18 m
Boom length [m]	78.8 m	Weight of slings [t]	0.310 t	Underfloor height [m]	-173.3 m
Boom extension sequence [%]	90-100-100-100-100-100	Working radius [m]	30.0 m	Center of gravity X (to slewing center [m])	
Counterweight [t]	49.8 t	Boom angle [°]	73.4 °	Center of gravity Y (to slewing center [m])	
Outrigger base [m]	8.5 m	Lifting load [t] (max. 4.0)	0.5 t		

GROUND FORCES [t]

		Outrigger			
		C	A	B	D
	Slewing angle [°]				
	45.0	23	30	37	31
	133.0	30	23	30	38
	224.0	38	30	23	31
	313.0	31	38	30	23

Maximum ground bearing load in service in working area

At 0 t lifting load

		Outrigger			
		C	A	B	D
	Slewing angle [°]				
	45.0	26	30	34	31
	134.0	30	25	30	35
	225.0	34	30	26	30
	313.0	30	34	30	26

Maximum ground bearing load in service in working area