PRIME
CRANE SERVICES
Russell Parker
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0408 929 885

For;

CRANE & RIGGING STUDY

KALGOORLIE CONSOLIDATED GOLD MINES

FIMISTON

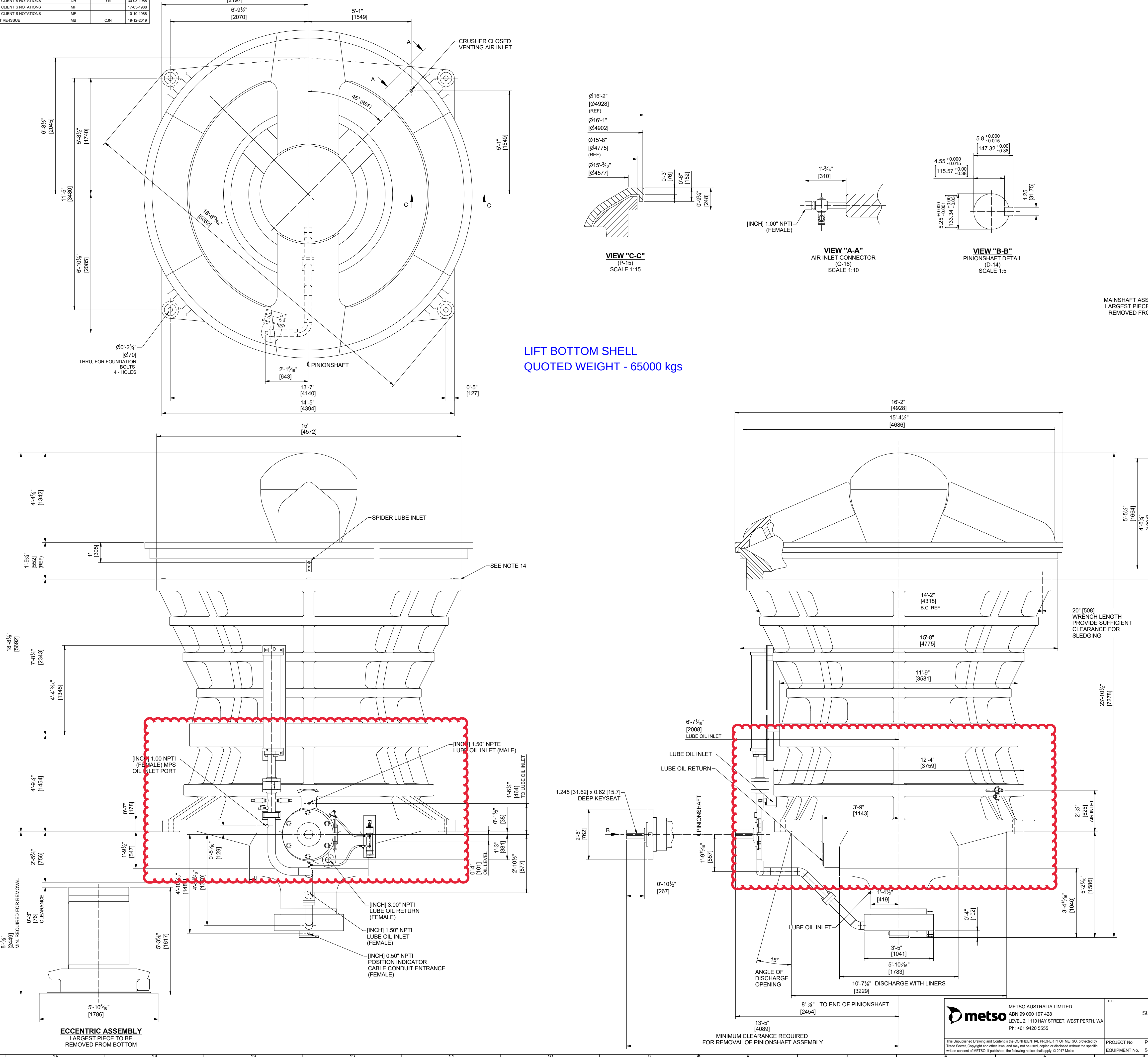
CRUSHER REFURBISHMENT

ROTATE AND REMOVE OLD BOTTOM SHELL

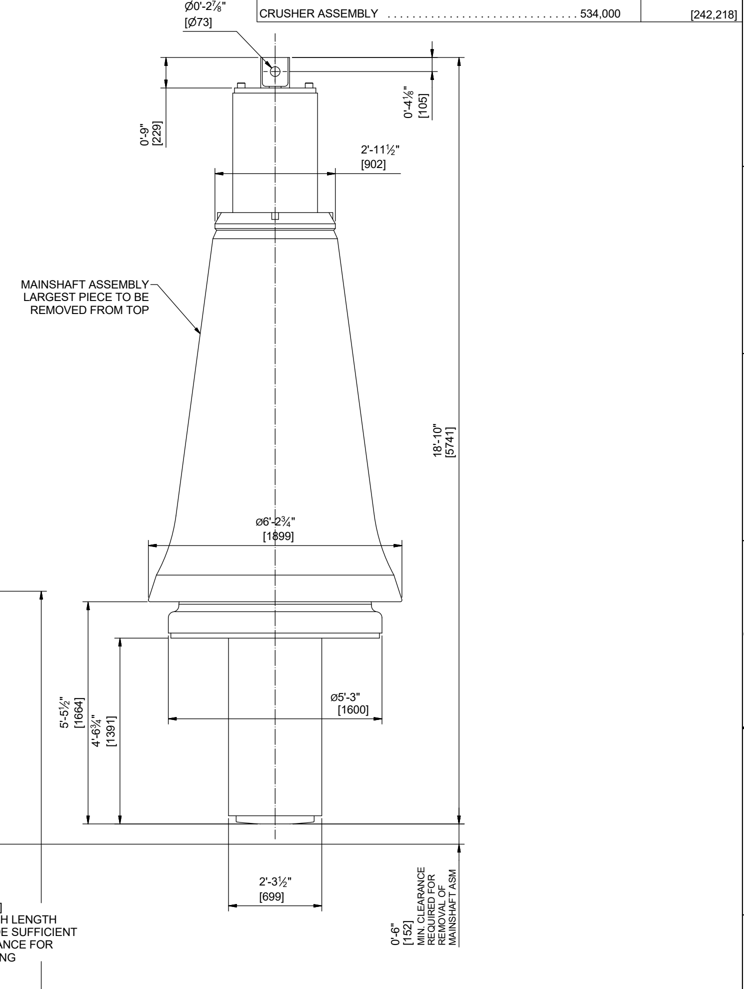
Revisions;

A	Issued for review	9.4.20	RP		
Rev	**Description**	**Date**	**Prepared**	**Checked**	**Approved**

REV	DESCRIPTION OF REVISION	BY	APPD	DATE
02	REVISED TO CONFORM TO CLIENT`S NOTATIONS	DH	YN	30-03-1988
03	REVISED TO CONFORM TO CLIENT`S NOTATIONS	MF		17-05-1988
04	REVISED TO CONFORM TO CLIENT`S NOTATIONS	MF		10-10-1988
05	REFURBISHMENT PROJECT RE-ISSUE	MB	CJN	19-12-2019



WEIGHTS OF SUB-ASSEMBLIES				
APPROXIMATE WEIGHT OF MAJOR ASSEMBLIES	LBS		[KILOGRAMS]	
LOWER SECTION ASSEMBLY		164,620		[74,670]
BOTTOMSHELL ASSEMBLY	137,000		[62,142]	
ECCENTRIC ASSEMBLY	12,490		[5,665]	
MPS CYLINDER ASSEMBLY	11,850		[5,375]	
PINIONSHAFT ASSEMBLY	3,200		[1,452]	
TOPSHELL (W/O CONCAVES)		142,000		[64,410]
MAINSHAFT ASSEMBLY		85,000		[37,885]
MAINSHAFT SUB-ASSEMBLY	62,500		[28,350]	
MANTLE	20,000		[9,072]	
SPIDER ASSEMBLY		84,000		[38,102]
SPIDER	63,350		[28,735]	
ARM SHIELD	3,300		[1,497]	
RIM LINER	6,450		[2,926]	
SPIDER BUSHING	1,150		[522]	
SPIDER CAP		5,200		[2,359]
CRUSHER ASSEMBLY		534,000		[242,218]



NOTES:

1. POSITION OF SPIDER ARMS TO BE INLINE WITH TRUCK DISCHARGE. ARM WILL SPLIT MATERIAL FLOW INTO CRUSHING CHAMBER FOR MORE EVEN FEED DISTRIBUTION.
2. CONSTRUCT STONE BOX AROUND SPIDER SO MATERIAL DISCHARGE FROM TRUCK DUMP FALLS ON DEAD STONE BED BEFORE ROLLING INTO CRUSHER CHAMBER. DO NOT PERMIT DIRECT IMPACT OF DUMPED MATERIAL ON SPIDER OR MAINSHAFT ASSEMBLY.
3. SCALE-UP IN TRUCK SIZE AND CAPACITY CAN SIGNIFICANTLY ALTER THE MATERIAL DISCHARGE ANGLE AND RELATIONSHIP OF TRUCK DUMP POINT TO IMPACT POINT OF HEAVY PIECES- MODIFICATION OF TRUCK DUMP PLATFORMS MAY BE REQUIRED.
4. SUPERIOR CRUSHERS ARE DESIGNED FOR STRAIGHT DOWN DISCHARGE INTO A STONE BOX. MAKE DISCHARGE CHAMBER LARGE ENOUGH TO CONTAIN A MINIMUM LIVE STORAGE OF TWO (2) TRUCK LOADS (BIGGEST TRUCK SIZE), PREFERABLY MORE. SIZE DISCHARGE ARRANGEMENT TO PREVENT PRODUCT BUILD-UP THAT COULD INTERFERE WITH CRUSHER OPERATION AND DAMAGE CRUSHER COMPONENTS.
5. A HIGH LEVEL DEVICE IN THE DISCHARGE CHAMBER CAN BE USED TO SIGNAL OPERATORS WHEN A FULL CHAMBER CONDITION EXISTS.
6. SIGNIFICANT INCREASES IN CRUSHER THROUGHPUT MAY REQUIRE ENLARGEMENT OF THE DISCHARGE CHAMBER AND SPEEDING UP OF PRODUCT DISCHARGE FLOW.
7. SAFETY GUARDS, UNLESS SPECIFICALLY ORDERED, ARE NOT FURNISHED, AND MUST CONFORM TO ALL SAFETY REGULATIONS.
8. FOUNDATION BOLTS ARE NOT FURNISHED BY METSO MINERALS UNLESS SPECIFIED.
9. THE SPIDER CAN BE LOCATED AS SHOWN OR CAN BE ROTATED ON THE TOPSHELL IN INCREMENTS OF 22.5°.
10. MAXIMUM DYNAMIC LOAD: HORIZONTAL FORCE: 8,826 LBS [39,260 N] MOMENT: 248,271 FT-LBS [336,610 NEWTON-METERS] LOCATED APPROXIMATELY AT BOTTOM OF MOUNTING PADS.
11. PINIONSHAFT: 600 RPM, CLOCKWISE ROTATION (WHEN VIEWED FROM DRIVEN END).
12. FOUNDATION REQUIREMENTS AND DESIGN TO BE ESTABLISHED BY A QUALIFIED CIVIL ENGINEER.
13. FOR LUBRICATION AND MPS CONNECTIONS, SEE LUBRICATION & MPS INSTALLATION.
14. FOUR (4) WEDGE SLOTS, EQUALLY SPACED, ARE PROVIDED IN TOP AND LOWER JOINTS. SUFFICIENT CLEARANCE SHOULD BE PROVIDED TO PERMIT THE DRIVING OF WEDGES TO BREAK JOINTS.
15. FOR DETAILS OF THE MPS PIPING AND BALANCE CYLINDER LOCATION, SEE BALANCE CYLINDER AND PIPING DRAWING.

metso — PRELIMINARY DRAWING NOT FOR CONSTRUCTION

PURCHASER NAME: KCGM	METSO MINERALS S/N: A3174
CUSTOMER NAME: FIMISTON	EQUIPMENT NAME: SUPERIOR MK-II GYRATORY CRUSHER
PROJECT NAME: PRIMARY CRUSHER REFURBISHMENT	CUSTOMER CHANGES MAY AFFECT PRICE AND DELIVERY
ORDER NUMBER: 3160589	SUBMITTED BY: CARL NICHOLLS
EQUIPMENT NUMBER: 54-75	DATE SUBMITTED: 19-12-2019

METSO AUSTRALIA LIMITED
ABN 99 000 197 428
LEVEL 2, 1110 HAY STREET, WEST PERTH, WA
Ph: +61 9420 5555

TITLE: 54-75 MKII INSTALATION OUTLINE
SUPERIOR CRUSHER, 1PC TOPSHELL
STD UPPER CWT

DRN: MB	DATE: 18-12-2019	PROJECT No. MTS0005	EQUIPMENT No. 5475
RVWD: CJN	DATE: 19-12-2019	MATERIAL No:	
APPD: CJN	DATE: 19-12-2019	MATERIAL Spec.:	
		MATERIAL Wt.: SEE TABLE	
		SCALE: 1:20	CONSTRUCTION RELEASED

PROJECT No. PRIMARY CRUSHER REFURBISHMENT
EQUIPMENT No. 54-75
ISO A0
DO NOT SCALE — THIRD ANGLE PROJECTION
DRAWING NO 17-Z50-139 — SHEET 1 OF 1 — REV 5

RESTRICTED

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DUAL CRANE LIFT SUMMARY

Prepared for;

Lift description;	Crusher refurbishment - remove bottom shell		
Lift plan no.		**Revision**	A
Planned lift date		**Date**	9.4.20

Item name	Bottom shell
Item no.	-
Item mass (kg)	65,000
Item length (m)	4.5
Item width (m)	4.4
Item height (m)	2.5

	Crane 1	**Crane 2**
Type	All Terrain	All Terrain
Make	Liebherr	Liebherr
Model	LTM 1450-8.1	LTM 1250-6.1
Configuration	Luffing jib	Main boom only
Main boom length (m)	16.1	20.7
Jib length (m)	14	-
Counterweight (t)	134	47.5

Maximum load share (kgs)		65000	32500
Crane components (kgs)		3100	1040
Rigging (kgs)		252	252
Total lifted weight (TLW)		68352	33792
Multi crane lift factor	**20%**	(13670)	(6758)
Required SWL (kgs)		**82022**	**40550**
Max. radius during lift (m)		14	14
Actual SWL at max radius (kgs)		**103200**	**43500**
Utilisation of actual SWL		66.2%	77.7%

Approvals		**Name**	**Signature**	**Date**
For PCS;	Study created by	Russell Parker		9.4.20
For GOLDFIELDS;	Chkd / Appr. by			
For Client	Chkd / Appr. by			
3rd Party Reviewer	Chkd / Appr. by			

TOTAL LIFTED WEIGHT CALCULATIONS - CRANE 1
(ALL WEIGHTS IN KILOGRAMS)

CRANE COMPONENTS - LIEBHERR LTM 1450-8.1

MAIN HOOK	5 SHEAVE SWL 129t	3100
AUX. HOOK	NOT FITTED	-
AUX. JIB		-
SUB TOTAL - CRANE COMPONENTS		3100

NOTE; WEIGHT OF HOIST ROPE IS INCLUDED IN LIEBHERR LOAD CHARTS, UNTIL THE HOOK TRAVELS BELOW THE OUTRIGGER PADS

RIGGING COMPONENTS

ITEM	DESCRIPTION	WEIGHT	QTY	MASS
1	6m 50t SYNTHETIC SLINGS	56	2	112
2	SHACKLES - 55t (WB)	50	2	100
3	RUD LIFTING RINGS SWL 40t EACH	20	1	20
SUB TOTAL - RIGGING COMPONENTS				232
LOAD - BOTTOM SHELL - MAX. LOAD SHARE				65000
TOTAL LIFTED WEIGHT				**68332**

TOTAL LIFTED WEIGHT CALCULATIONS - CRANE 2
(ALL WEIGHTS IN KILOGRAMS)

CRANE COMPONENTS - LIEBHERR LTM 1250.6.1

MAIN HOOK	3 SHEAVE SWL 71t	1040
AUX. HOOK	NOT FITTED	-
AUX. JIB		-
SUB TOTAL - CRANE COMPONENTS		1040

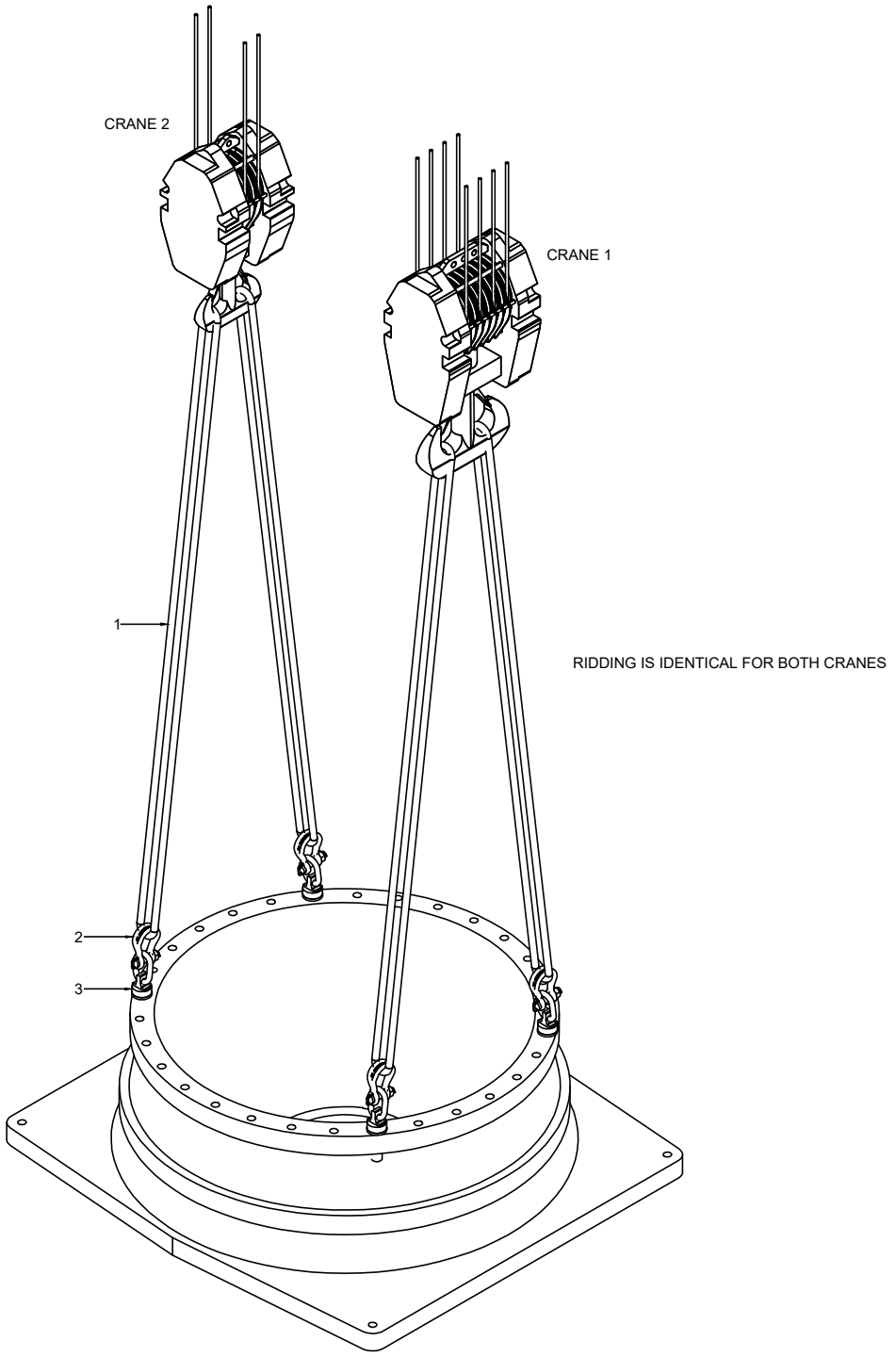
NOTE; WEIGHT OF HOIST ROPE IS INCLUDED IN LIEBHERR LOAD CHARTS, UNTIL THE HOOK TRAVELS BELOW THE OUTRIGGER PADS

RIGGING COMPONENTS

ITEM	DESCRIPTION	WEIGHT	QTY	MASS
1	6m 50t SYNTHETIC SLINGS	56	2	112
2	SHACKLES - 55t (WB)	50	2	100
3	RUD LIFTING RINGS SWL 40t EACH	20	1	20
SUB TOTAL - RIGGING COMPONENTS				232
LOAD - BOTTOM SHELL - MAX. LOAD SHARE				32500
TOTAL LIFTED WEIGHT				**33772**

RIGGING NOTES;

1. "G80" DENOTES GRADE 80 CHAINS
2. "G100" DENOTES GRADE 100 CHAINS
3. FSWR SLINGS - (E) DENOTES ENDLESS GROMMET TYPE
4. FSWR SLINGS - (S) DENOTES SINGLE PART SOFT EYE TYPE
5. SHACKLES - (WB) DENOTES WIDE BODY SLING SAVER TYPE
6. SHACKLES - (STD) DENOTES STANDARD SAFETY PIN BOW TYPE
7. SLING LENGTHS SHOWN ARE THE MINIMUM REQUIRED. LONGER IS OK EXCEPT IF SPECIFICALLY NOTED.
8. SLINGS MUST ALWAYS BE AT LEAST 60° FROM THE HORIZONTAL



RIDDING IS IDENTICAL FOR BOTH CRANES

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FOR;

KALGOORLIE CONSOLIDATED GOLD MINES
FIMISTON
CRUSHER REFURBISHMENT
ROTATE AND REMOVE BOTTOM SHELL
RIGGING DETAILS

DRAWN	RP	8.4.20
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
A	8.4.20	ISSUED FOR REVIEW		

DRAWING No. PCS-CC20-054 REV A

CRANE DETAILS - SINGLE CRANE LIFT

	CRANE 1	CRANE 2	
MAKE	LIEBHERR	LIEBHERR	
MODEL	LTM 1450-8.1	LTM 1250-6.1	
CRANE MRC	450	250	t
LMI CODE	-	0014	
CONFIGURATION	TN	T	
COUNTERWEIGHT	134	47.5	t
MAIN BOOM LENGTH	16.1	36.6	m
MAIN BOOM CONFIG.	0,0,0,0,0,0	0,0,0,46,0	%
JIB TYPE / OFFSET	LUFFING	NOT FITTED	°
JIB LENGTH	14	-	m
MAIN / AUX. HOOK?	MAIN	MAIN	
MAX SWL THIS CONFIG.	118.7	76	t
OEM CHART WIND SPEED	10	14.3	m/sec

LOAD DETAILS

MAX. LOAD SHARE	65000	32500	kgs
CRANE COMPONENTS	3100	1040	kgs
RIGGING	252	252	kgs
TOTAL LIFT WEIGHT	***68352***	***33792***	kgs

LIFT DETAILS - AS PER AS2550.1 2002, SECTION 6.27.3, MULTIPLE CRANE HOISTING

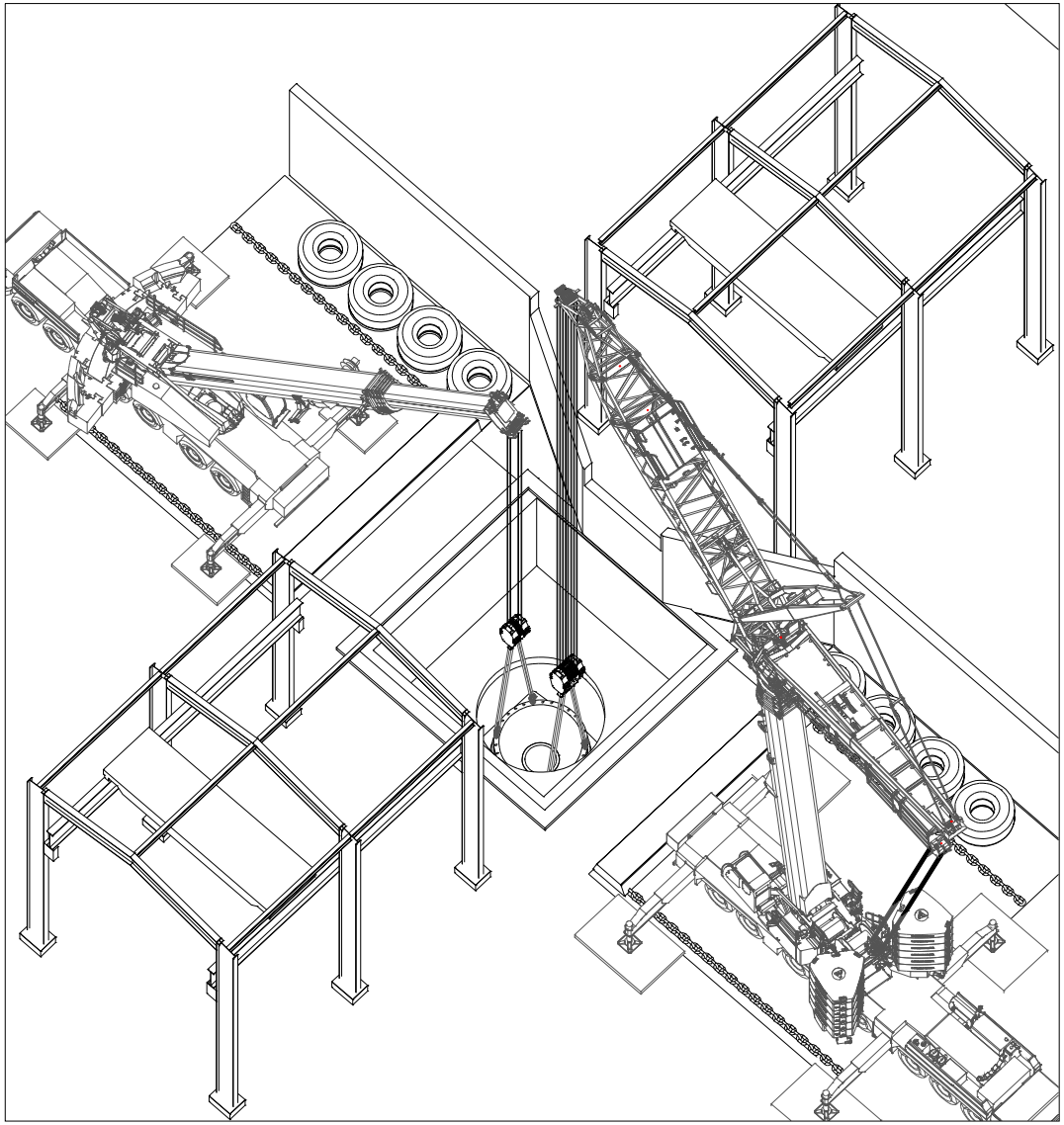
ADD 20% TO TLW	13670	6758	
REQUIRED SWL	82022	40550	
MAXIMUM LIFT RADIUS	14	14	m
ACTUAL SWL AT MAX. RADIUS	98100	43500	kgs
UTILISATION OF ACTUAL SWL	***69.7***	***77.7***	%
SPARE CAPACITY	29748	9708	kgs

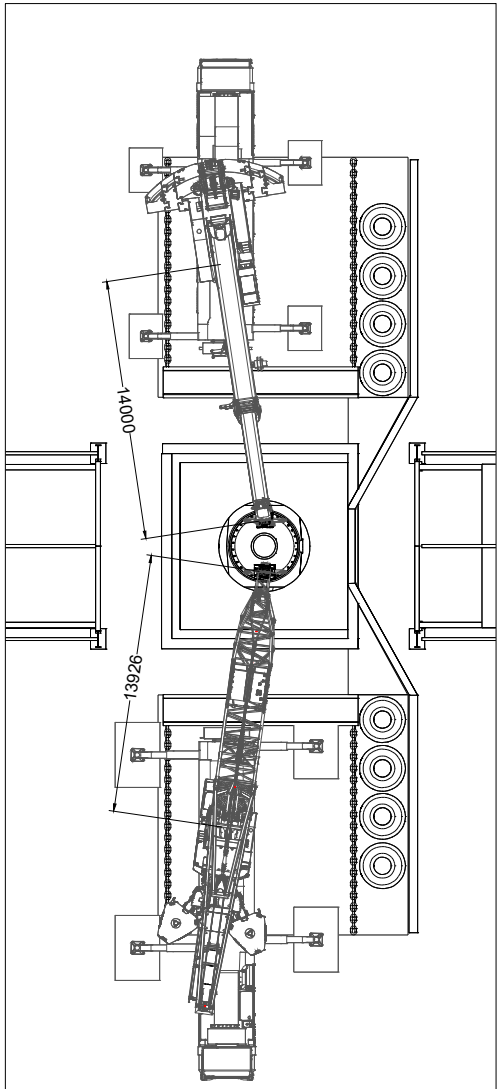
REEVING CHECK

LINE PULL	12700	10600	kgs
No. OF PARTS	8	6	
TOTAL LINE PULL	96400	61300	kgs
LOAD TO HOOK	68352	33792	kgs
REEVING UTILISATION	***70.9***	***55.1***	%

GROUND BEARING PRESSURES (MAXIMUM)

OUTRIGGER PAD SIZE	3.8	x	2.4	2	x	1.8	m
OUTRIGGER PAD AREA	9.1			3.6			m2
OUTRIGGER PAD WEIGHT	2.5			0.8			t
MAXIMUM JACK FORCE	168.0			66.0			t
TOTAL DOWN FORCE	170.5			66.8			t
PRESSURE UNDER PAD	18.7			18.6			t/m2
PRESSURE UNDER PAD	183.4			182.0			kPa





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CRUSHER REFURBISHMENT
ROTATE AND REMOVE BOTTOM SHELL
CRANE DETAILS

DRAWN	RP	8.4.20
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

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A	8.4.20	ISSUED FOR REVIEW		

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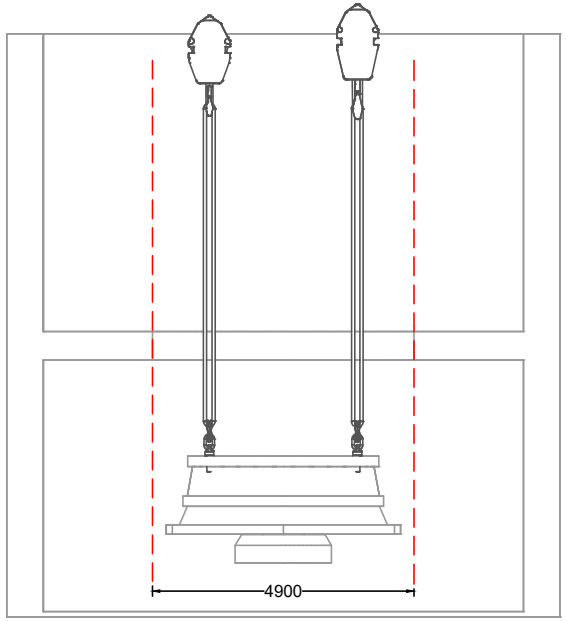
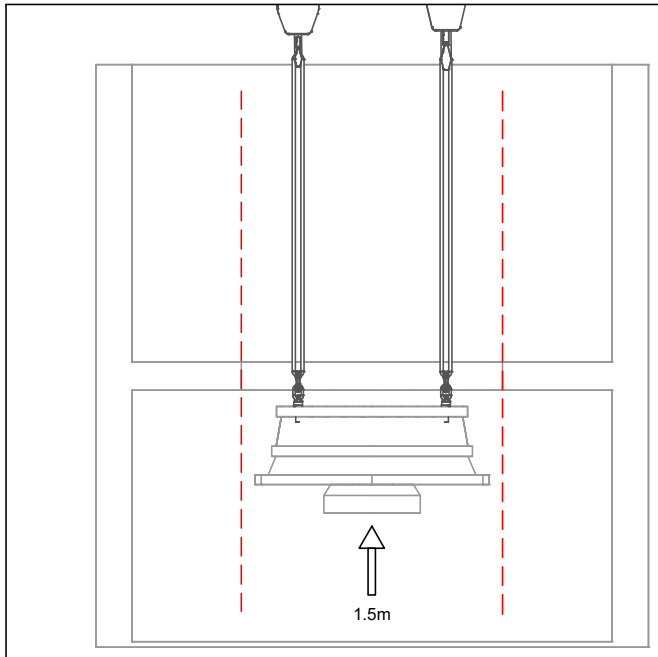
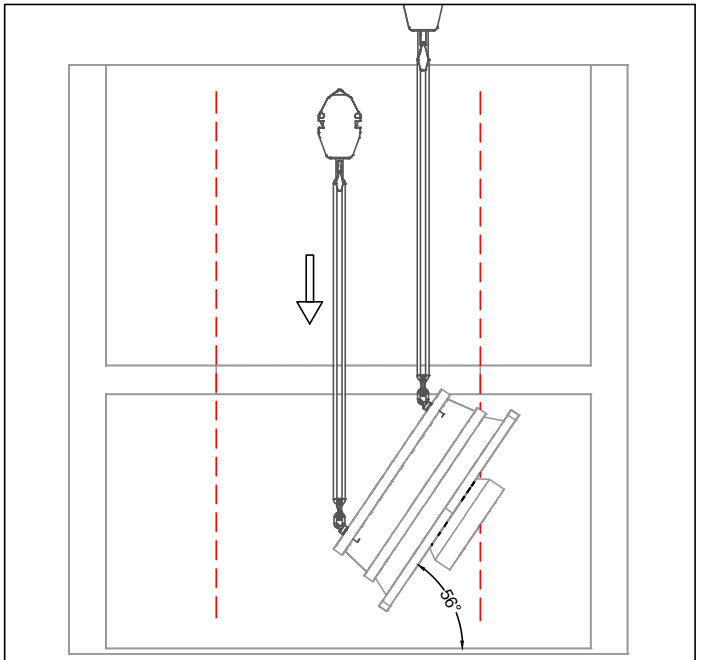
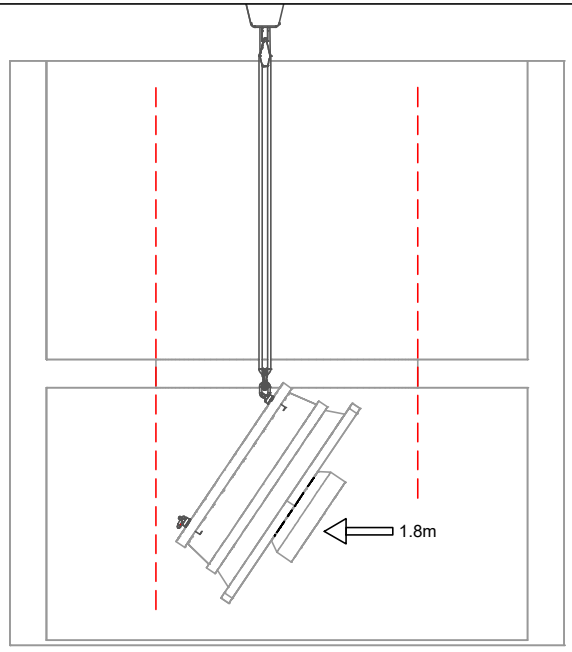
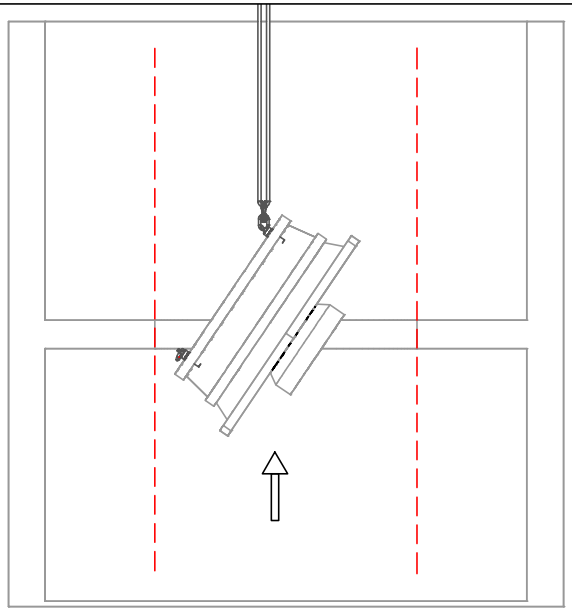


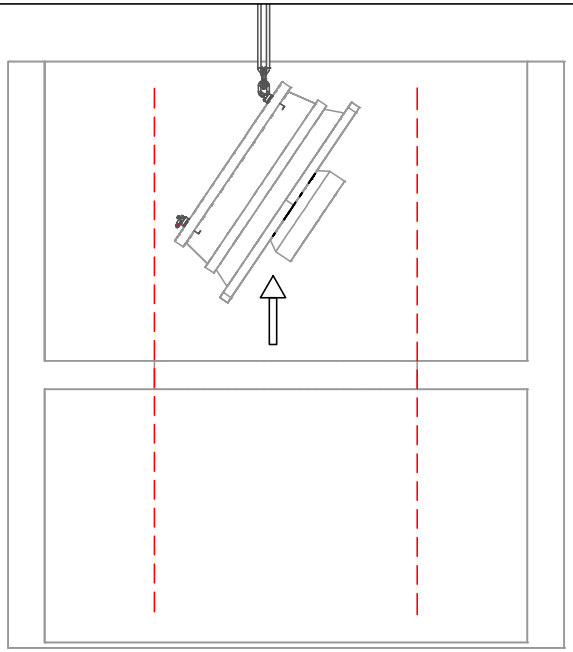








SEE DRAWING PCS-CC20-057 FOR MORE DETAIL ON THIS STEP



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KALGOORLIE CONSOLIDATED GOLD MINES
FIMISTON
CRUSHER REFURBISHMENT
ROTATE AND REMOVE BOTTOM SHELL
LOAD PATH DETAILS

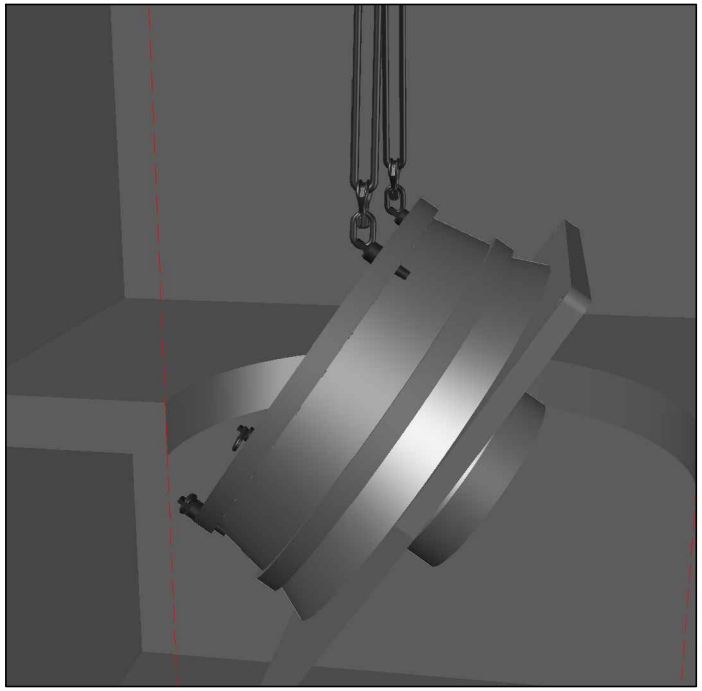
DRAWN	RP	8.4.20
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

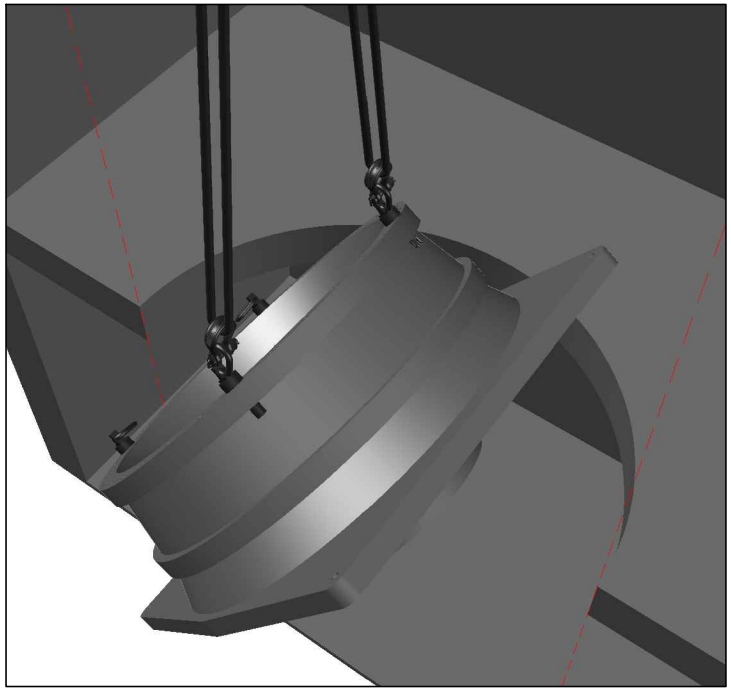
REVISIONS

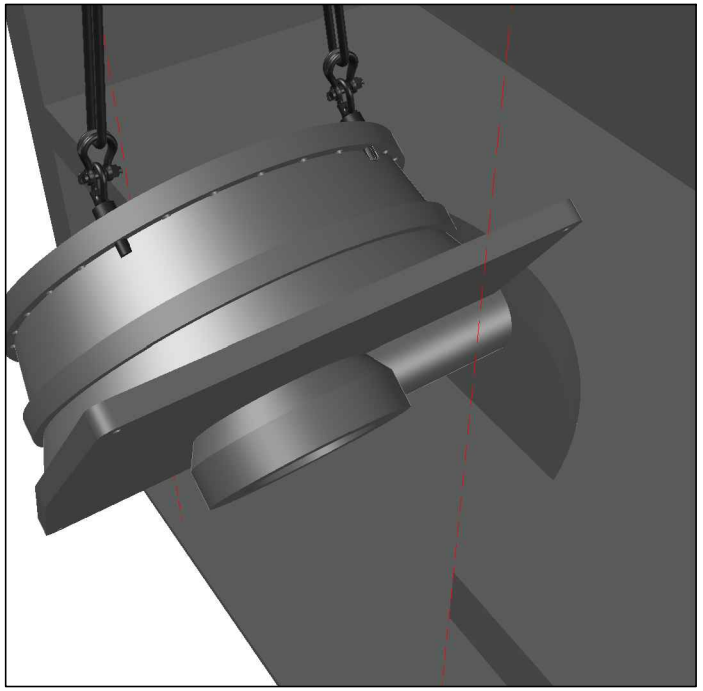
REV	DATE	DESCRIPTION	CHKD	APPR.
A	8.4.20	ISSUED FOR REVIEW		

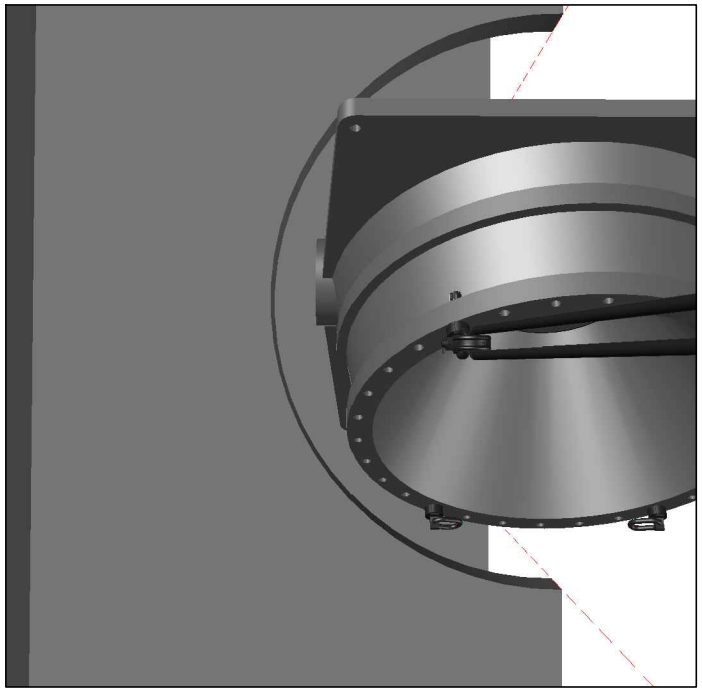
DRAWING No. PCS-CC20-056

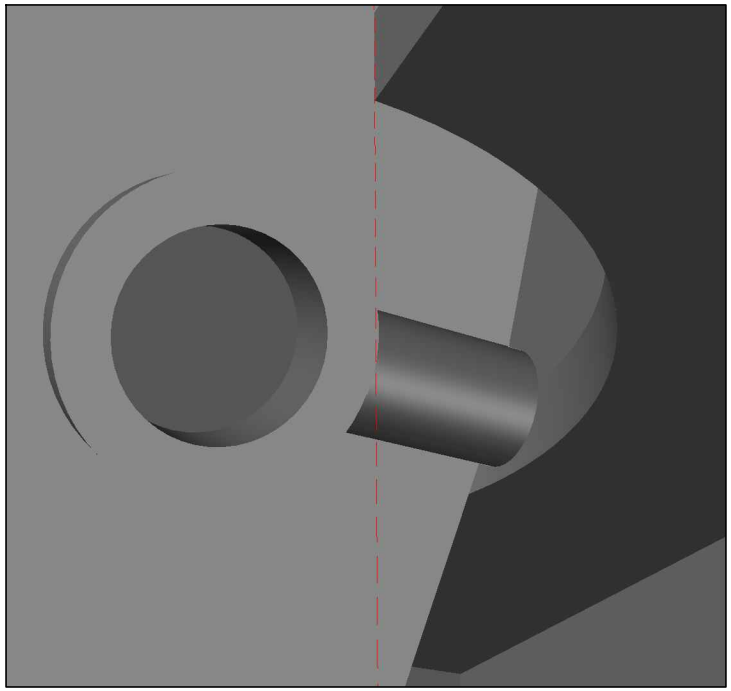
REV A

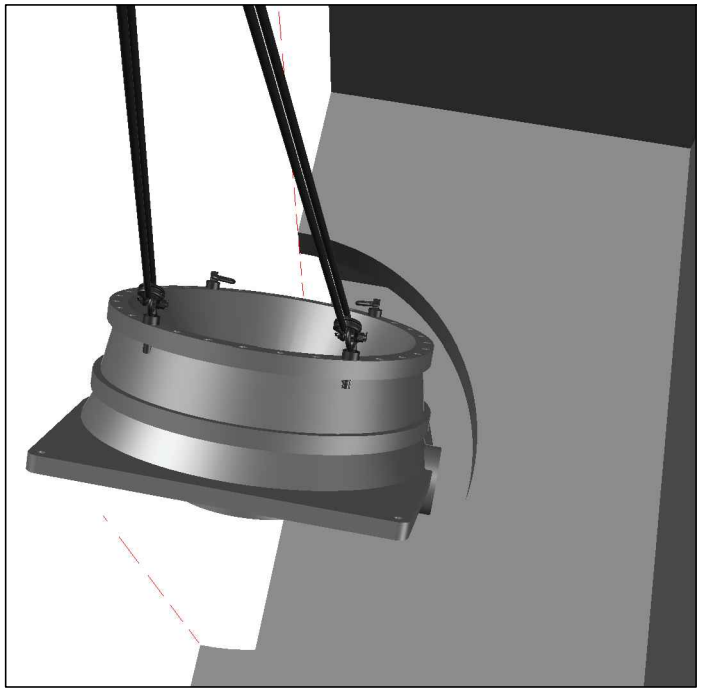












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KALGOORLIE CONSOLIDATED GOLD MINES
FIMISTON
CRUSHER REFURBISHMENT
ROTATE AND REMOVE BOTTOM SHELL
LOAD PATH DETAILS

DRAWN	RP	8.4.20
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
A	8.4.20	ISSUED FOR REVIEW		

DRAWING No. PCS-CC20-057

REV A

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SINGLE CRANE LIFT SUMMARY

Prepared for;

Lift description;	Crusher refurbishment - remove bottom shell		
Lift plan no.		**Revision**	A
Planned lift date		**Date**	9.4.20

Item name	Bottom shell
Item no.	-
Item mass (kg)	65,000
Item length (m)	4.5
Item width (m)	4.4
Item height (m)	2.0

	Crane 1
Type	All Terrain
Make	Liebherr
Model	LTM 1450-8.1
Configuration	Luffing jib
Main boom length (m)	16.1
Jib length (m)	14
Counterweight (t)	134

Load (kgs)	65000
Crane components (kgs)	3100
Rigging (kgs)	252
Total lifted weight (TLW)	68352
Max. radius during lift (m)	9
SWL at max radius (kgs)	118700
Utilisation	57.6%

Maximum wind speed (m/sec)	10
Maximum GBP (kPa)	172.6
Allowable GBP (kPa)	TBA

Approvals		**Name**	**Signature**	**Date**
For PCS;	Study created by	Russell Parker		9.4.20
For GOLDFIELDS;	Chkd / Appr. by			
For Client	Chkd / Appr. by			
3rd Party Reviewer	Chkd / Appr. by			

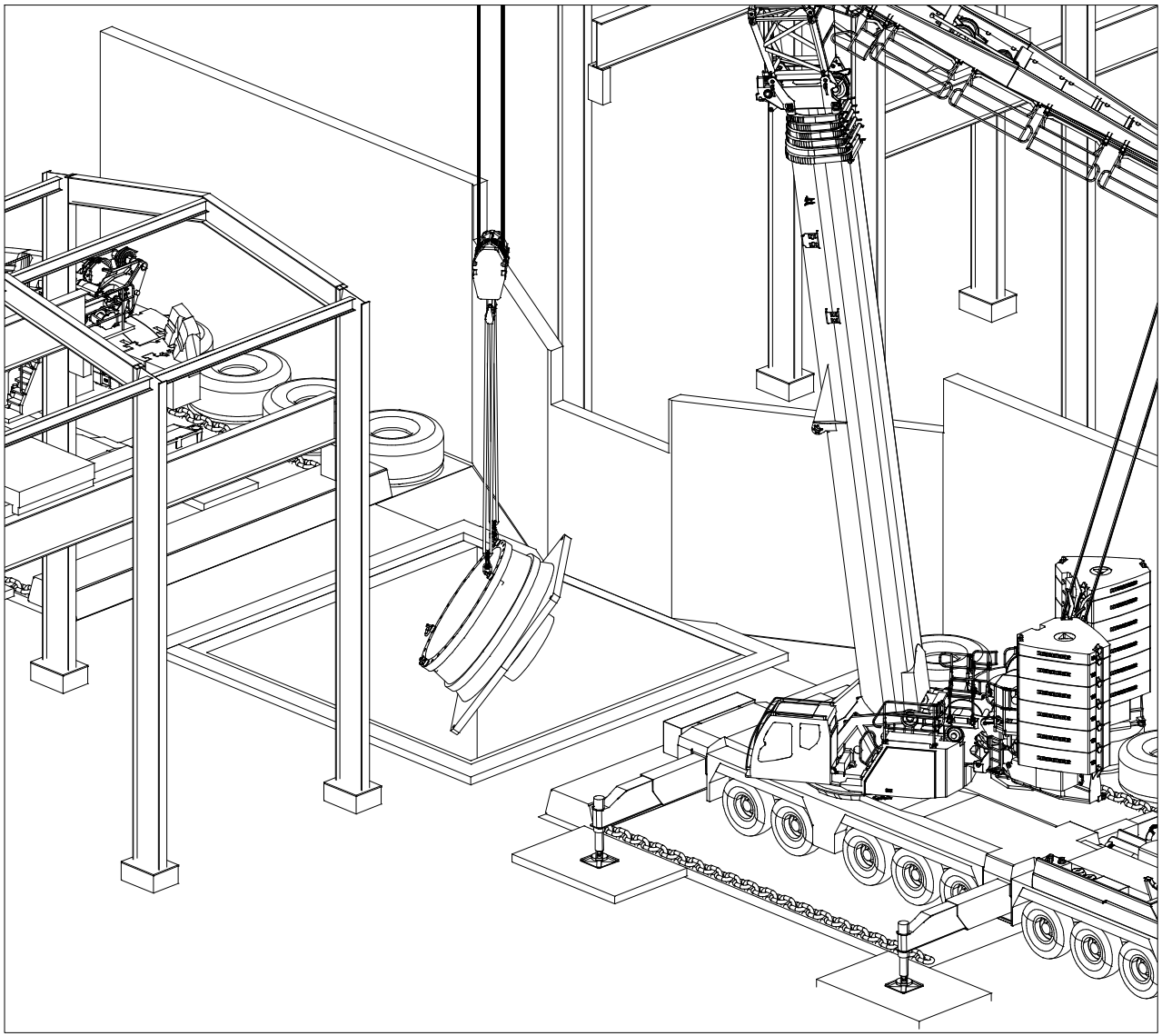
CRANE DETAILS - SINGLE CRANE LIFT		
MAKE	LIEBHERR	
MODEL	LTM 1450-8.1	
CRANE MRC	450	t
LMI CODE	-	
CONFIGURATION	TN	
COUNTERWEIGHT	134	t
MAIN BOOM LENGTH	16.1	m
MAIN BOOM CONFIG.	0,0,0,0,0,0	%
JIB TYPE / OFFSET	LUFFING	°
JIB LENGTH	14	m
MAIN / AUX. HOOK?	MAIN	
MAX SWL THIS CONFIG.	118.7	t
OEM CHART WIND SPEED	10	m/sec

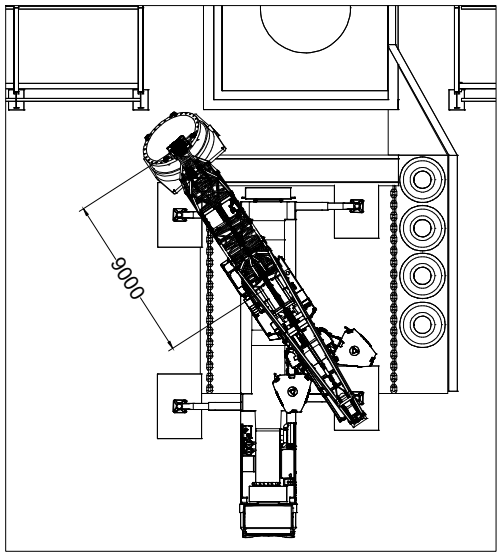
LOAD DETAILS		
LOAD	65000	kgs
CRANE COMPONENTS	3100	kgs
RIGGING	252	kgs
TOTAL LIFT WEIGHT	***68352***	kgs

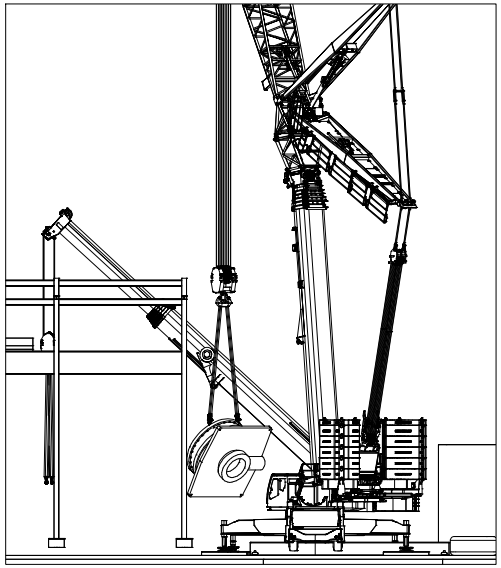
LIFT DETAILS		
MAXIMUM LIFT RADIUS	9	m
SWL AT MAX. RADIUS	118700	kgs
UTILISATION	***57.6***	%
SPARE CAPACITY	50348	kgs

REEVING CHECK		
LINE PULL	12700	kgs
No. OF PARTS	8	
TOTAL LINE PULL	96400	kgs
LOAD TO HOOK	68352	kgs
REEVING UTILISATION	***70.9***	%

GROUND BEARING PRESSURES				
OUTRIGGER PAD SIZE	3.8	x	2.4	m
OUTRIGGER PAD AREA	9.1			m2
OUTRIGGER PAD WEIGHT	2.5			kgs
MAXIMUM JACK FORCE	168.0			kgs
TOTAL DOWN FORCE	171			kgs
PRESSURE UNDER PAD	18.7			t/m2
PRESSURE UNDER PAD	183.4			kPa







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FIMISTON
CRUSHER REFURBISHMENT
ROTATE AND REMOVE BOTTOM SHELL
CRANE DETAILS

DRAWN	RP	8.4.20
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
A	8.4.20	ISSUED FOR REVIEW		

DRAWING No. PCS-CC20-058 REV A

CRANE DETAILS - SINGLE CRANE LIFT

	CRANE 1	CRANE 2	
MAKE	LIEBHERR	LIEBHERR	
MODEL	LTM 1450-8.1	LTM 1250-6.1	
CRANE MRC	450	250	t
LMI CODE	-	0014	
CONFIGURATION	TN	T	
COUNTERWEIGHT	134	47.5	t
MAIN BOOM LENGTH	16.1	36.6	m
MAIN BOOM CONFIG.	0,0,0,0,0,0	0,0,0,46,0	%
JIB TYPE / OFFSET	LUFFING	NOT FITTED	°
JIB LENGTH	14	-	m
MAIN / AUX. HOOK?	MAIN	MAIN	
MAX SWL THIS CONFIG.	118.7	76	t
OEM CHART WIND SPEED	10	14.3	m/sec

LOAD DETAILS

MAX. LOAD SHARE	65000	32500	kgs
CRANE COMPONENTS	3100	1040	kgs
RIGGING	252	252	kgs
TOTAL LIFT WEIGHT	***68352***	***33792***	kgs

LIFT DETAILS - AS PER AS2550.1 2002, SECTION 6.27.3, MULTIPLE CRANE HOISTING

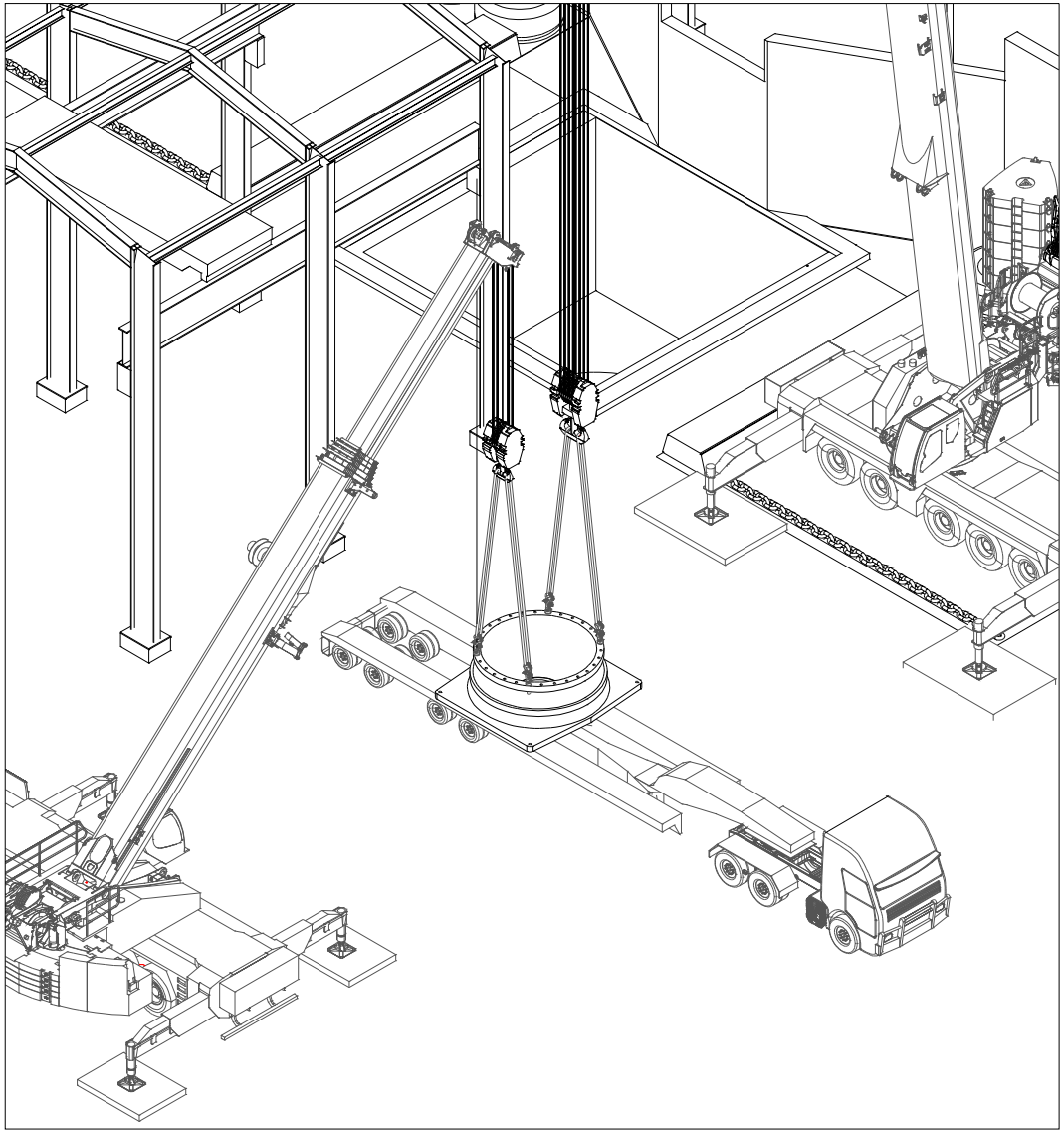
ADD 20% TO TLW	13670	6758	
REQUIRED SWL	82022	40550	
MAXIMUM LIFT RADIUS	14	14	m
ACTUAL SWL AT MAX. RADIUS	98100	43500	kgs
UTILISATION OF ACTUAL SWL	***69.7***	***77.7***	%
SPARE CAPACITY	29748	9708	kgs

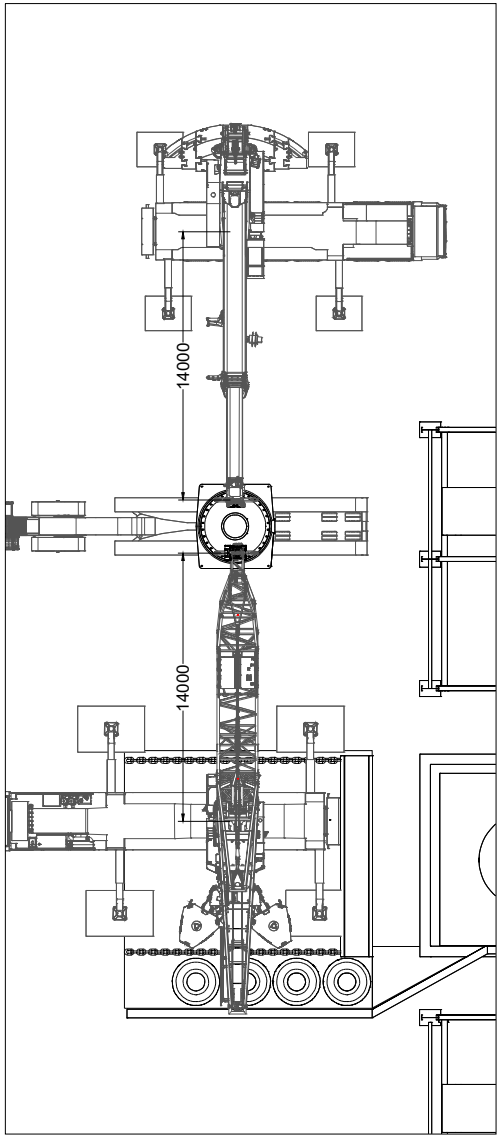
REEVING CHECK

LINE PULL	12700	10600	kgs
No. OF PARTS	8	6	
TOTAL LINE PULL	96400	61300	kgs
LOAD TO HOOK	68352	33792	kgs
REEVING UTILISATION	***70.9***	***55.1***	%

GROUND BEARING PRESSURES (MAXIMUM)

OUTRIGGER PAD SIZE	3.8	x	2.4	2	x	1.8	m
OUTRIGGER PAD AREA	9.1			3.6			m2
OUTRIGGER PAD WEIGHT	2.5			0.8			t
MAXIMUM JACK FORCE	168.0			66.0			t
TOTAL DOWN FORCE	170.5			66.8			t
PRESSURE UNDER PAD	18.7			18.6			t/m2
PRESSURE UNDER PAD	183.4			182.0			kPa





DISCLAIMER:
THIS DRAWING IS BASED SOLELY ON THE INFORMATION PROVIDED BY THE NAMED CLIENT AND / OR CONTACT PERSON. NO LIFT OR PROCEDURE DESCRIBED HEREIN SHOULD BE CARRIED OUT WITHOUT REFERENCE TO THE SPECIFIC LOADCHART AND / OR OPERATION MANUAL FOR THE CRANE/S AND/OR PLANT DEPICTED. IT IS ASSUMED THAT THE GROUND OR OTHER SUPPORTING STRUCTURE IS LEVEL AND OF SUFFICIENT COMPACTION OR STRENGTH TO SAFELY WITHSTAND IMPOSED LOADINGS FROM THE EQUIPMENT DEPICTED UNDER ALL OPERATING CONDITIONS.

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FOR;

KALGOORLIE CONSOLIDATED GOLD MINES
FIMISTON
CRUSHER REFURBISHMENT
ROTATE AND REMOVE BOTTOM SHELL
CRANE DETAILS

DRAWN	RP	8.4.20
CHECKED		
APPR. CLIENT		
APPR. CLIENT		

REVISIONS

REV	DATE	DESCRIPTION	CHKD	APPR.
A	8.4.20	ISSUED FOR REVIEW		

DRAWING No. PCS-CC20-059 REV A

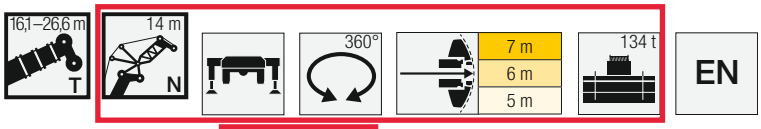
Traglasten / Lifting capacities

Forces de levage / Portate

Tablas de carga / Грузоподъемность

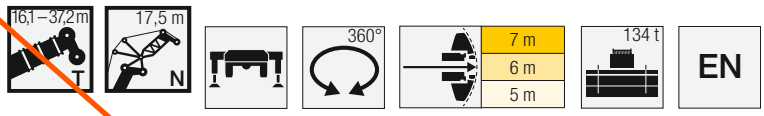
TN 14 – 21

LIEBHERR LTM 1450-8.1



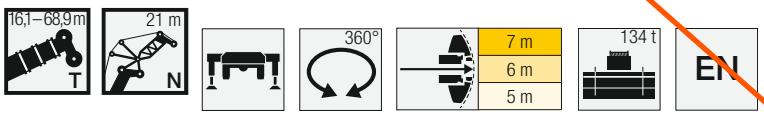
	16,1 m + 4 m*			21,4 m + 4 m*			26,6 m + 4 m*			
	14 m									
	83°	75°	67°	83°	75°	67°	83°	75°	67°	
8	118,7									8
9	118,7			117,5						9
10	118,7			113,1			111,9			10
12	111,7			104			103,9			12
14	98,1	103,2		93,8	100,6		95,1			14
16		91		80	88,7		84,6	85,9		16
18		80,6	77,7		79,1			76,1		18
20			69,6			67,4		68,1		20
22						60,7			56,9	22
24									51,7	24

* Adapter · adapter · piece d'adaptateur · adattatore · adaptador · адаптер



	16,1 m + 4 m*			21,4 m + 4 m*			26,6 m + 4 m*			31,9 m + 4 m*			37,2 m + 4 m*			
	17,5 m															
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
9	118,7															9
10	118,6			110,6												10
12	111,8			102,5			100,9			87,1						12
14	101,9	102,7		94,4			93,8			84,9			71,8			14
16	91,1	90,5		85,9	88,2		86,5			84,3			72,6			16
18	78,5	80,3		76,2	78,8		78,2	76,5		79,8			71,2			18
20		72	69,2		70,6		67,6	68,5		71,6	65,9		68,4			20
22			62,3		63,7	60,4		61,7			59,4		61	56,9		22
24			56,6			54,9		56,1	52,2		54,7			51,7		24
26						50,2			47,8		50	46,1		47,3		26
28									44,1			42,4				28
30												39,2			35,9	30
32															33,3	32

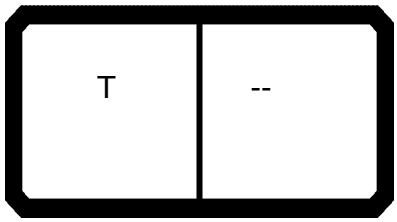
* Adapter · adapter · piece d'adaptateur · adattatore · adaptador · адаптер



	16,1 m + 4 m*			21,4 m + 4 m*			26,6 m + 4 m*			31,9 m + 4 m*			37,2 m + 4 m*			42,5 m + 4 m*			
	21 m																		
	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	83°	75°	67°	
10	105,6																		10
12	107,5			96,8			86												12
14	101,6			92,2			87,2			74,3			61,2						14
16	93,7	90,1		85,9			84,6			74,3			61,6			49,5			16
18	83,3	80		79,3	77,8		78,9			73,2			61,6			49,6			18
20	74,7	71,7		72,1	70,2		72,7	68,1		71,5			61,6			49,6			20
22	63,5	64,8	62	63,5	63,4		65,7	61,4		64,6	59		61,3			49,6			22
24		58,9	56,4		57,6	54,4		55,8		58,7	54,1		57,9	52,3		49,6	33,7		24
26			51,6		52,7	49,8		51,1	47,4		49,8			47,9		49,6	43,4		26
28						45,9		47,3	43,6		45,9	42		44,1			41,2		28
30									40,7		42,4	38,9		40,8			38,9		30
32									38			36,2			34		36,1		32
34												33,7			31,7			29,4	34
36															29,6			27,5	36
38																		25,7	38

* Adapter · adapter · piece d'adaptateur · adattatore · adaptador · адаптер

ISO DIN

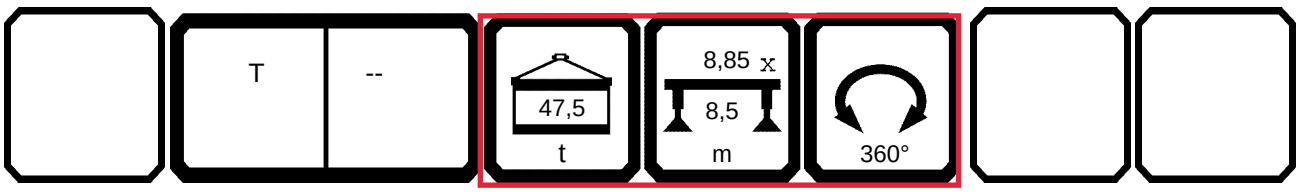


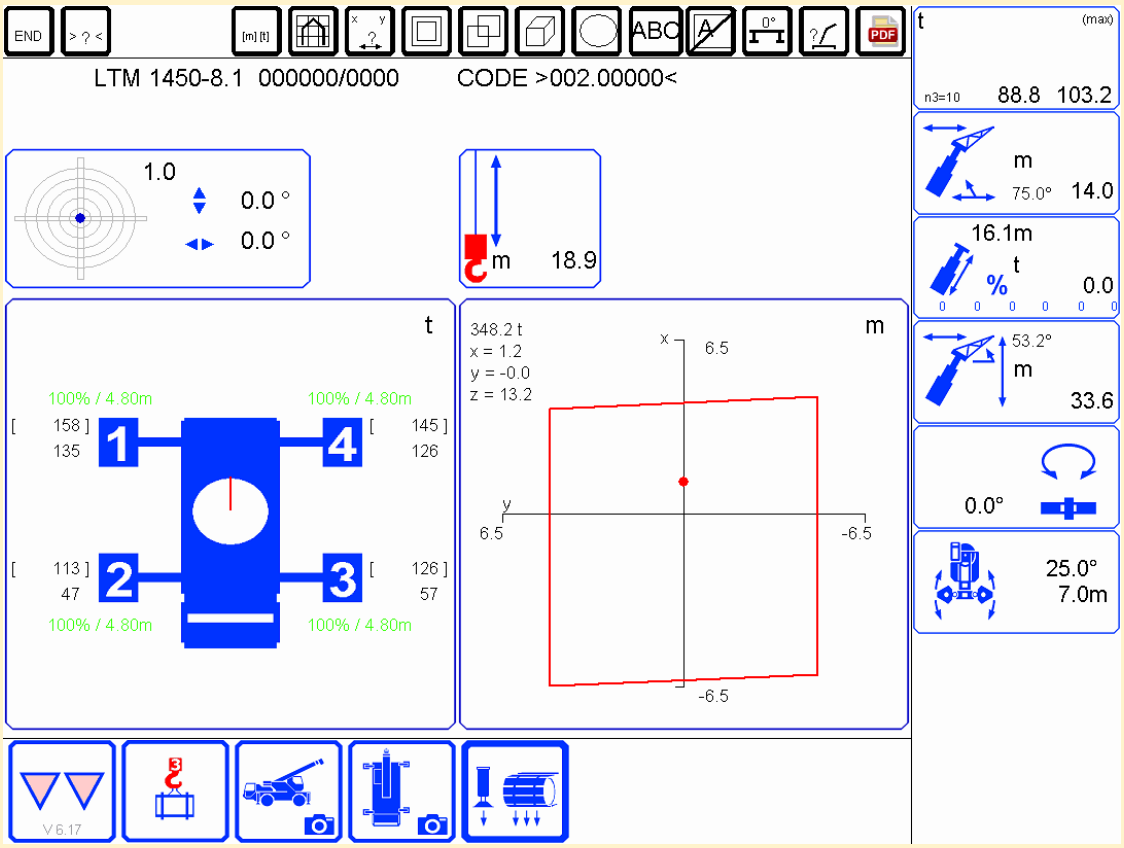
LIEBHERR LTM 1250-6.1

070858 21.22

m >< t CODE > 0014 < B131 1100 .x(x)

m	15,5	20,7	20,7	20,7	20,7	25,9	25,9	25,9	25,9	26,8	31,1	31,1	31,1	31,1
3,0	176,0													
3,5	173,0	135,0	125,0	76,0	56,0									
4,0	157,0	135,0	125,0	76,0	56,0	117,0	115,0	56,0	54,0	51,0				
4,5	144,0	134,0	125,0	76,0	57,0	117,0	115,0	56,0	54,0	51,0				
5,0	136,0	127,0	125,0	77,0	57,0	116,0	115,0	56,0	53,0	50,0	82,0	86,0	80,0	56,0
6,0	118,0	115,0	114,0	79,0	59,0	108,0	109,0	57,0	48,0	45,0	80,0	86,0	73,0	57,0
7,0	102,0	101,0	102,0	79,0	59,0	98,0	100,0	58,0	43,5	41,0	73,0	84,0	67,0	57,0
8,0	88,0	88,0	89,0	74,0	59,0	87,0	88,0	58,0	40,0	38,0	67,0	82,0	62,0	58,0
9,0	77,0	77,0	78,0	69,0	56,0	76,0	77,0	57,0	37,0	35,5	62,0	74,0	57,0	58,0
10,0	68,0	67,0	68,0	65,0	53,0	67,0	68,0	53,0	34,5	32,5	58,0	64,0	53,0	55,0
11,0	60,0	60,0	61,0	61,0	49,5	59,0	61,0	49,5	32,5	30,5	54,0	57,0	50,0	52,0
12,0	54,0	53,0	54,0	56,0	47,0	52,0	54,0	46,5	30,5	28,8	47,5	50,0	46,5	48,5
14,0		41,5	42,5	43,5	42,5	40,5	42,5	41,5	27,0	25,6	38,0	40,0	40,5	42,5
16,0		33,0	34,0	35,0	35,5	32,0	33,5	37,0	24,0	22,7	30,5	33,0	33,5	37,0
18,0		23,6	24,3	25,1	25,8	25,7	27,4	30,5	22,0	20,9	24,9	26,7	27,1	30,5
20,0						21,1	22,7	25,5	20,2	19,3	20,3	22,0	22,4	25,6
22,0						17,6	19,2	21,8	18,6	17,8	16,7	18,4	18,8	21,9
24,0										16,4	13,7	15,6	15,9	19,0
26,0											11,2	13,1	13,4	16,6
28,0											9,2	11,1	11,4	14,6
30,0														
32,0														
34,0														
36,0														
38,0														
40,0														
42,0														
44,0														
46,0														
48,0														
50,0														
52,0														
54,0														
56,0														
*** n ***	14!	14	13	8	6	12	12	6	6	5	9	9	8	6
1	0+	0+	0+	0+	0+	46+	0+	0+	0+	0+	92+	46+	0+	0+
2	0+	46+	0+	0+	0+	46+	46+	0+	0+	0+	46+	46+	92+	0+
3	0+	0+	46+	0+	0+	0+	46+	0+	0+	0+	0+	46+	46+	46+
4	0+	0+	0+	46+	0+	0+	0+	46+	0+	0+	0+	0+	0+	46+
5	0+	0+	0+	0+	46+	0+	0+	46+	92+	100+	0+	0+	0+	46+
%														
m/s	14,3	14,3	14,3	14,3	14,3	12,8	12,8	12,8	12,8	12,8	12,8	12,8	12,8	12,8
TAB ***	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199	1199





Maximum jack force (t)			158
Outrigger pad weight (t)			2.5
Total weight (t)			160.5
Outrigger pad size (m x m)	3.8	x	2.4
Outrigger pad area (m2)			9.12
Pressure under pads (t/m2)			17.6
Pressure under pads (kPa)			172.6

END > ? < 100%

LTM 1250-6.1 000000000 CODE >0014< B131 1100

Inclination angle

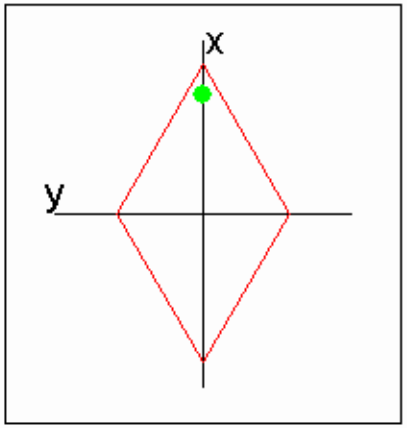
Longitud.incl. [°]

0.0

Transverse incl. [°]

0.0

Center of gravity



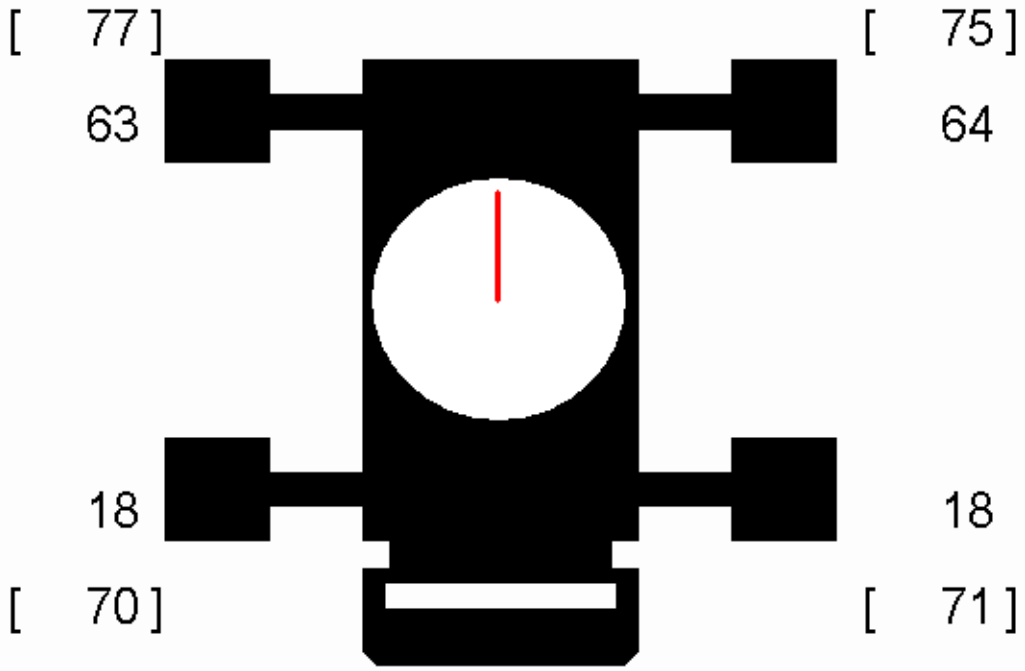
x: 1.8 m 154.7 t

y: 0.0 m

z: 5.7 m

Maximum jack force (t)			77
Outrigger pad weight (t)			0.6
Total weight (t)			77.6
Outrigger pad size (m x m)	2	x	1.8
Outrigger pad area (m2)			3.6
Pressure under pads (t/m2)			21.6
Pressure under pads (kPa)			211.5

t



t typ1 n=8
8
33
8
43
(max)

m 14.0
40.1 °

m 16.3

m 20.7
%
0+ 0+ 0+ 46+ 0+

0°

V_{max}

A_w / A_p