BUCKNER HEAVYLIFT CRANES

Build Package – Liebherr LR1600/2– CR6603

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004	CWT Arrangement
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008	Erection & Take Down
009	Wind Speeds
010	Load Charts

Note: Crane technician MUST verify all information contained in this document matches what is provided by the manufacturer for the specific crane being used. Contact Andy Moore with questions: andym@bucknerheavylift.com Cell: 713 705 5726

PRELIMINARY

PROJECT:

LR1600 SDBW 197' + 197'

LOCATION:	–
BUCKNER CONTACT:	Andy Moore, P.E. AndyM@BucknerHeavylift.com
LIFT PLAN BY:	Andy Moore, P.E. AndyM@BucknerHeavylift.com

DRAWING NOTES:

Title Page

LR1600/2	
Operating Mode	SDWB
Main Boom Length	60m (197')
Luffing Jib Length	60m (197')
Derrick Length	36m (118')
Superstructure CWT	150t (331k)
Carbody CWT	65t (143k)
Ballast Tray CWT	151t (333k)

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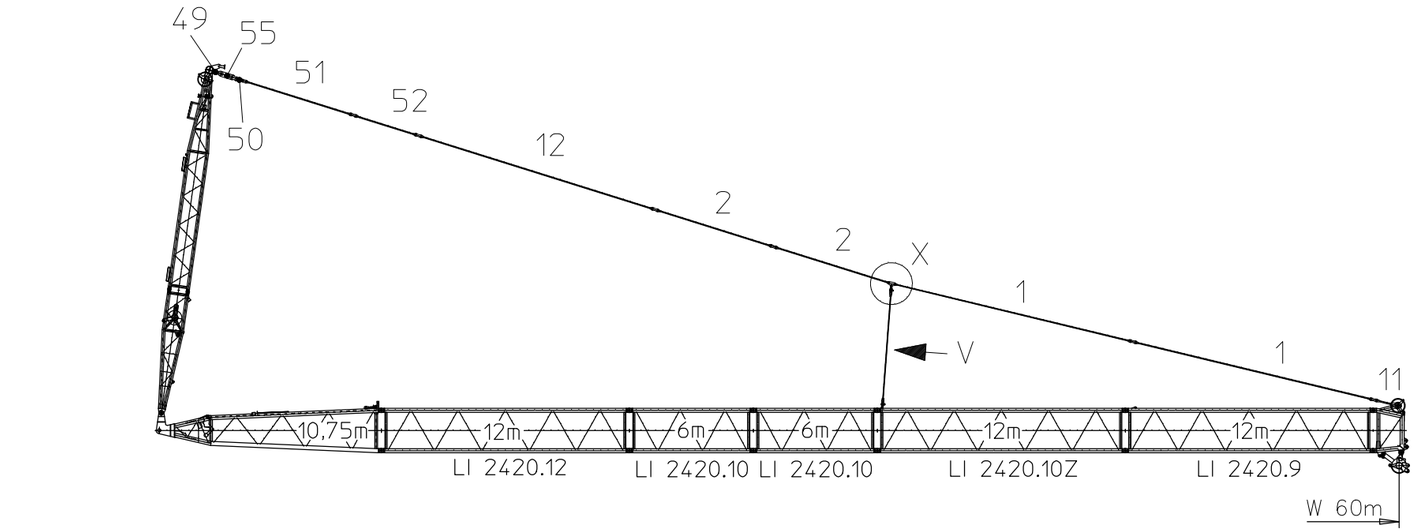
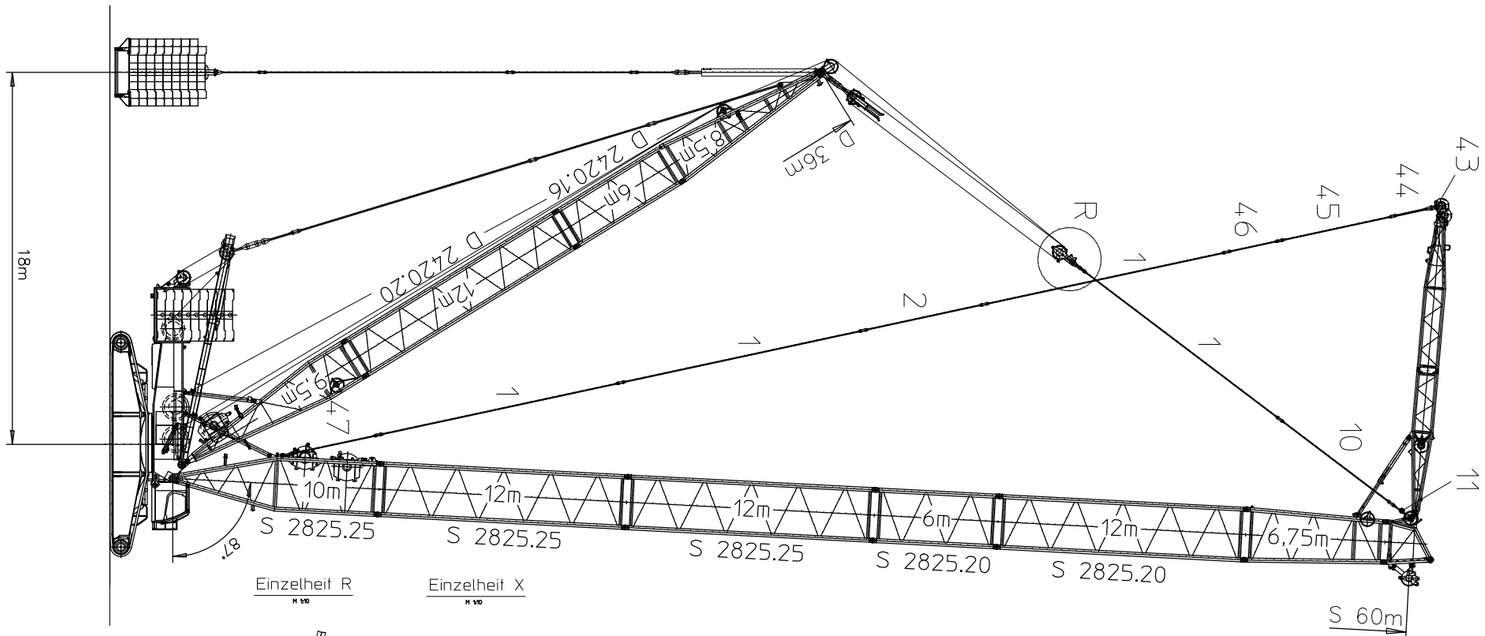
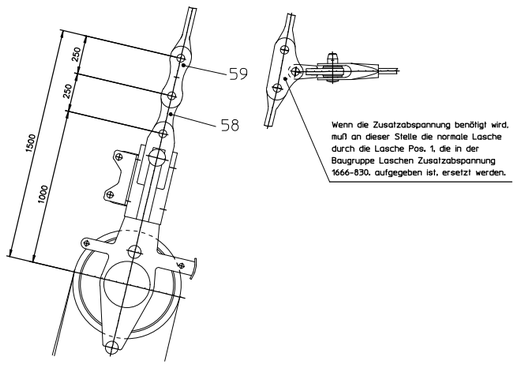
BUCKNER HEAVYLIFT CRANES







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LR1600 SDBW 197' + 197'

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AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E.
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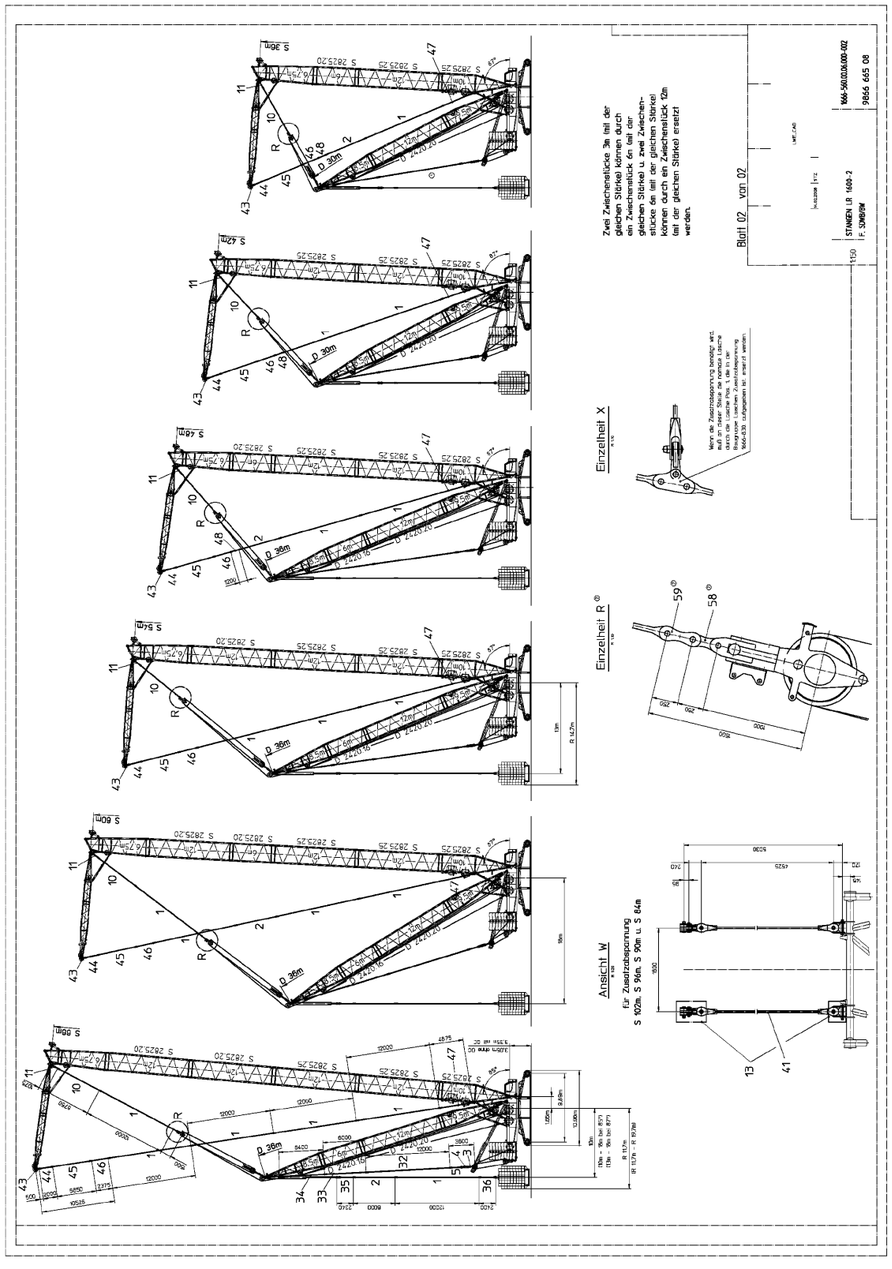
BUCKNER HEAVYLIFT CRANES



Pos.	Artikel	Bezeichnung	Description
1	964522208	STANGE KPL.	ROD CPL.
2	964344008	STANGE KPL.	ROD CPL.
3	964545608	STANGE KPL.	ROD CPL.
4	10354696	ZUGMESSLASCHE	TENSION DYNAMOMETER
5	964568008	STANGE KPL.	ROD CPL.
10	964867908	STANGE KPL.	ROD CPL.
11	964904208	STANGE KPL.	ROD CPL.
13	915553508	ZUSATZABSPANNUNG	SUPPLEMENTARY GUYING DEVICE
32	964915908	STANGE KPL.	ROD CPL.
33	964859308	STANGE KPL.	ROD CPL.
34	964926808	STANGE KPL.	ROD CPL.
35	964926908	STANGE KPL.	ROD CPL.
36	965019708	STANGE KPL.	ROD CPL.
37	965320508	STANGE KPL.	ROD CPL.
41	915553908	ZUSATZABSPANNUNG	SUPPLEMENTARY GUYING DEVICE
43	964991108	LASCHE KPL.	BRACKET COMPL.
44	965005808	TRAVERSE	CROSSBAR
45	965005408	STANGE KPL.	ROD CPL.
46	965043008	STANGE KPL.	ROD CPL.
47	964703808	STANGE KPL.	ROD CPL.
48	965097008	STANGE KPL.	ROD CPL.
58	964945608	LASCHE KPL.	BRACKET COMPL.
59	965908308	LASCHE KPL.	BRACKET COMPL.
1000	986666508	STANGEN LR 1600-2	RODS/ PULL RODS LR 1600-2

PROJECT:

LR1600 SDBW 197' + 197'

LOCATION: –

BUCKNER CONTACT: Andy Moore, P.E.
AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E.
AndyM@BucknerHeavylift.com

DRAWING NOTES:

Rod Plan

LR1600/2	
Operating Mode	SDWB
Main Boom Length	60m (197')
Luffing Jib Length	60m (197')
Derrick Length	36m (118')
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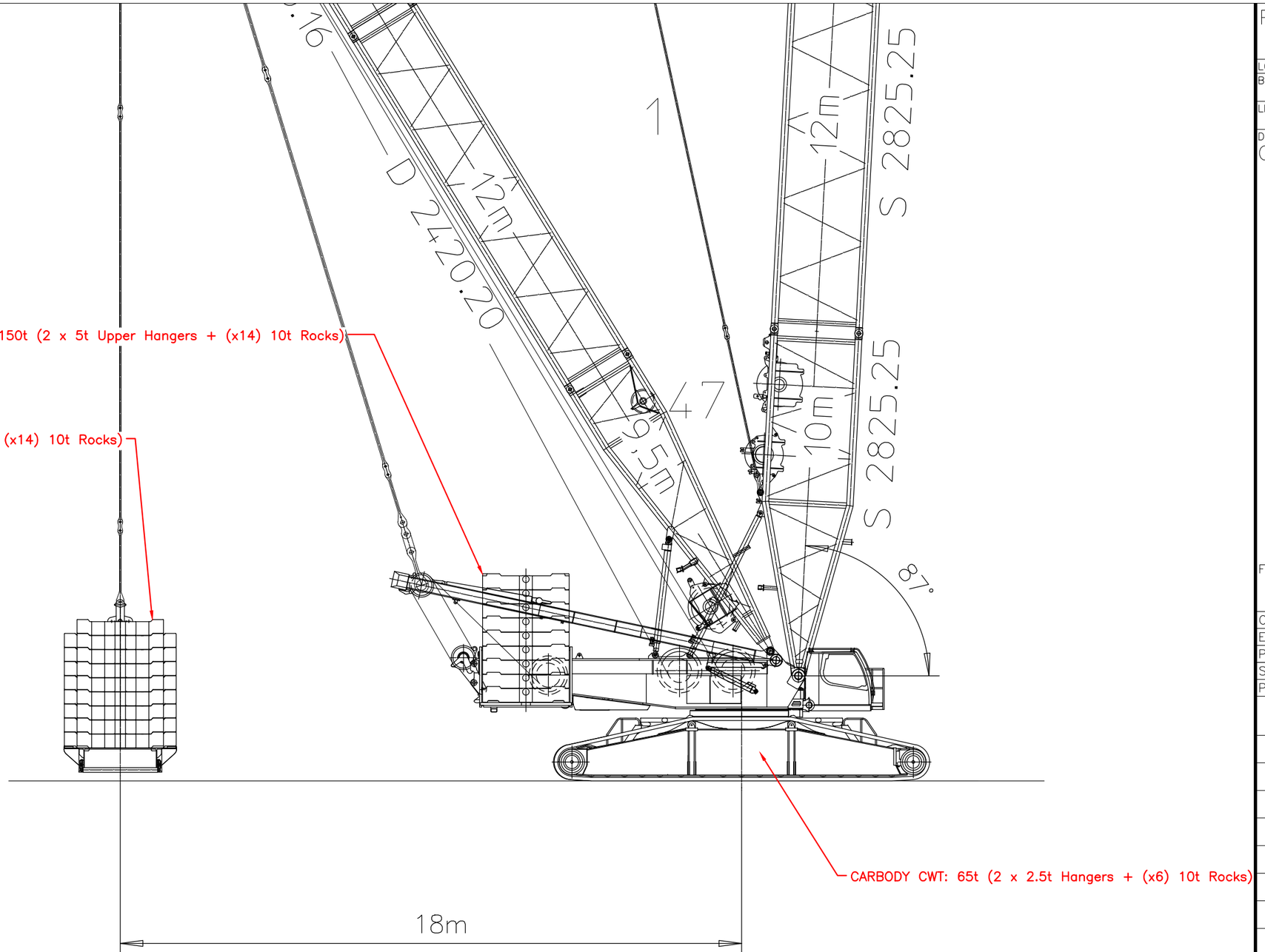
BUCKNER HEAVYLIFT CRANES



PROJECT:

LR1600 SDBW 197' + 197'

LOCATION: –

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AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E.
AndyM@BucknerHeavylift.com

DRAWING NOTES:

CWT Arrangement

LR1600/2	
Operating Mode	SDWB
Main Boom Length	60m (197')
Luffing Jib Length	60m (197')
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BUCKNER HEAVYLIFT CRANES

Aux Line (Winch 2)	
3rd Party Rigging 28mmø	
Parts of Line	0
Reeving Cap. (EN 13000)	0 lb
Block Wt.	(User Dictated) 0 lb

Main Hook Block (Winch 1)	
Hook Block 125DM (3 Sheave) 28mmø	
Parts of Line	5
Reeving Cap. (EN 13000)	193 300 lb
Block Wt.	(x4 Chk. Wts) 7 700 lb

1.3 Hook block 125 DM (3 rope pulleys / 266.8 kips load)

Reeving	Maximum possible total boom length for following hook block weight:					
	3.3 kips without auxiliary weights	5.5 kips for 2 auxiliary weights	7.7 kips for 4 auxiliary weights	9.9 kips for 6 auxiliary weights	12.1 kips for 8 auxiliary weights	
7	118 ft	197 ft	276 ft	354 ft	394 ft	
6	138 ft	236 ft	335 ft	433 ft	453 ft	
5	157 ft	276 ft	394 ft	512 ft	532 ft	
4	217 ft	374 ft	512 ft	360 ft	360 ft	
3	295 ft	492 ft	630 ft	630 ft	630 ft	
2	453 ft	630 ft	630 ft	630 ft	630 ft	
1	630 ft	630 ft	630 ft	630 ft	630 ft	

PROJECT:

LR1600 SDBW 197' + 197'

LOCATION: –

BUCKNER CONTACT: Andy Moore, P.E. AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E. AndyM@BucknerHeavylift.com

DRAWING NOTES:

Hookblock

LR1600/2	
Operating Mode	SDWB
Main Boom Length	60m (197')
Luffing Jib Length	60m (197')
Derrick Length	36m (118')
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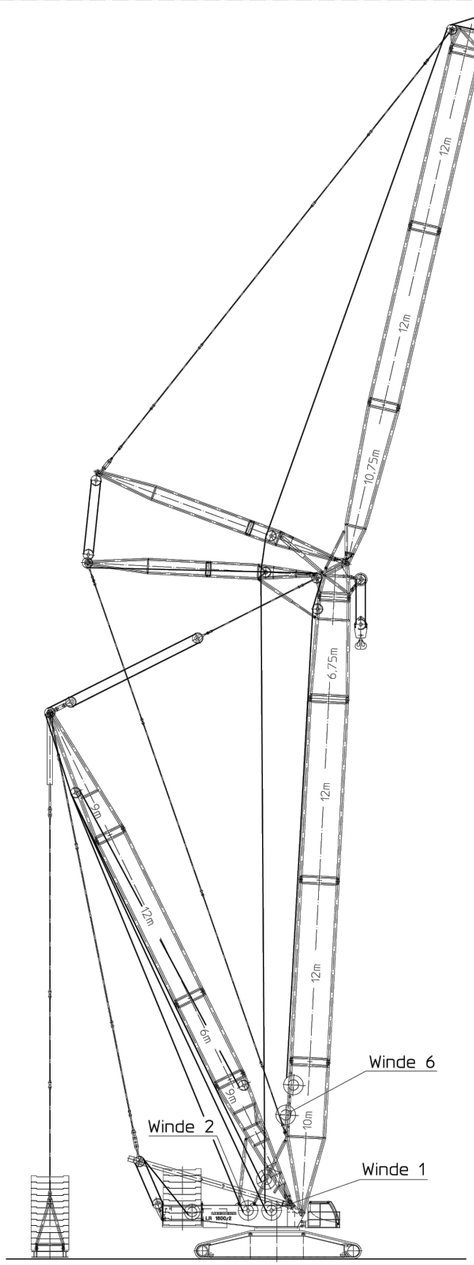
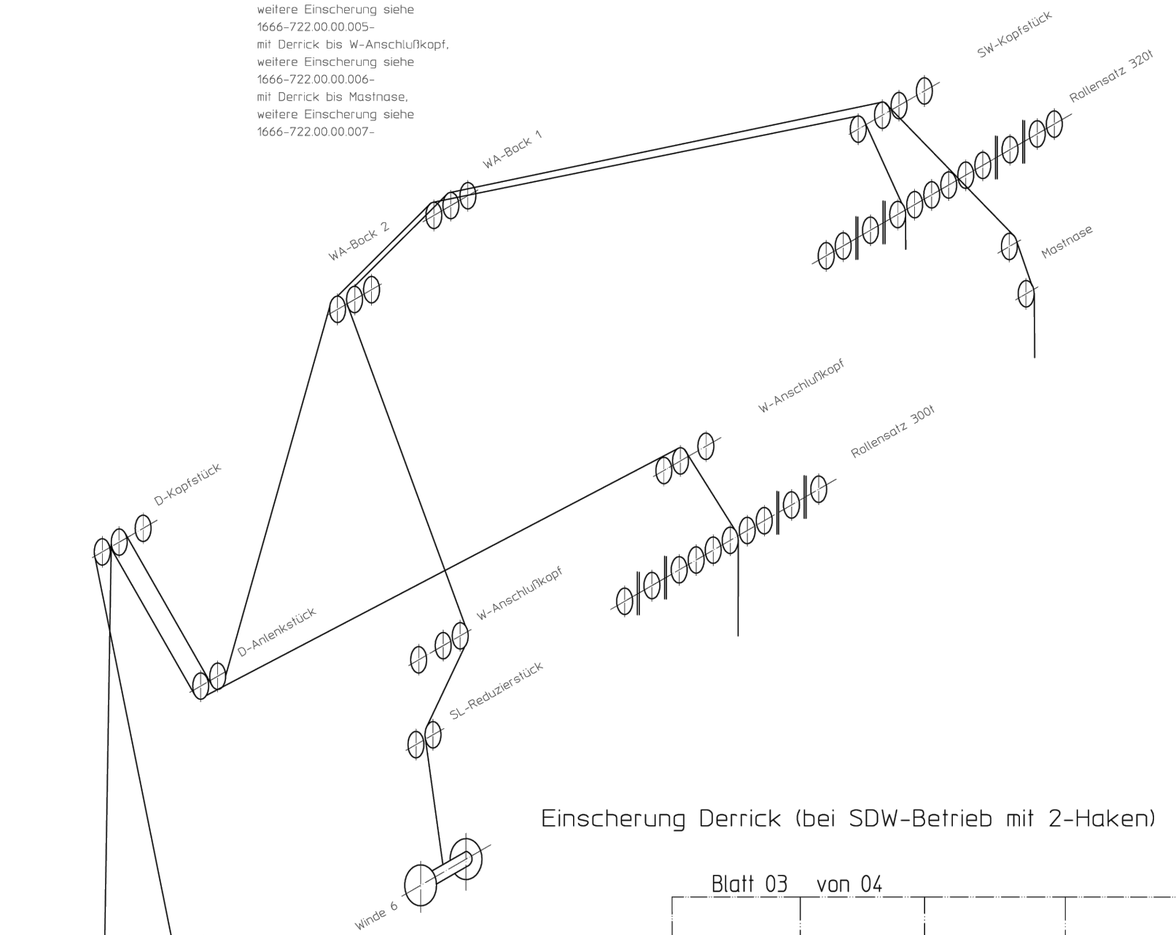
BUCKNER HEAVYLIFT CRANES



Einscherung:

mit Derrick bis SW-Kopfstück,
weitere Einscherung siehe
1666-722.00.00.005-
mit Derrick bis W-Anschlußkopf,
weitere Einscherung siehe
1666-722.00.00.006-
mit Derrick bis Mastnase,
weitere Einscherung siehe
1666-722.00.00.007-



Einscherung Derrick (bei SDW-Betrieb mit 2-Haken)

Blatt 03 von 04

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30.01.2008 | SAR

1:100 | EINSCHERPLAN | 1666-722.00.00.004-001

9866 407 08

PROJECT:

LR1600 SDBW 197' + 197'

LOCATION: –

BUCKNER CONTACT: Andy Moore, P.E.
AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E.
AndyM@BucknerHeavylift.com

DRAWING NOTES:

Reeving (1)

LR1600/2	
Operating Mode	SDWB
Main Boom Length	60m (197')
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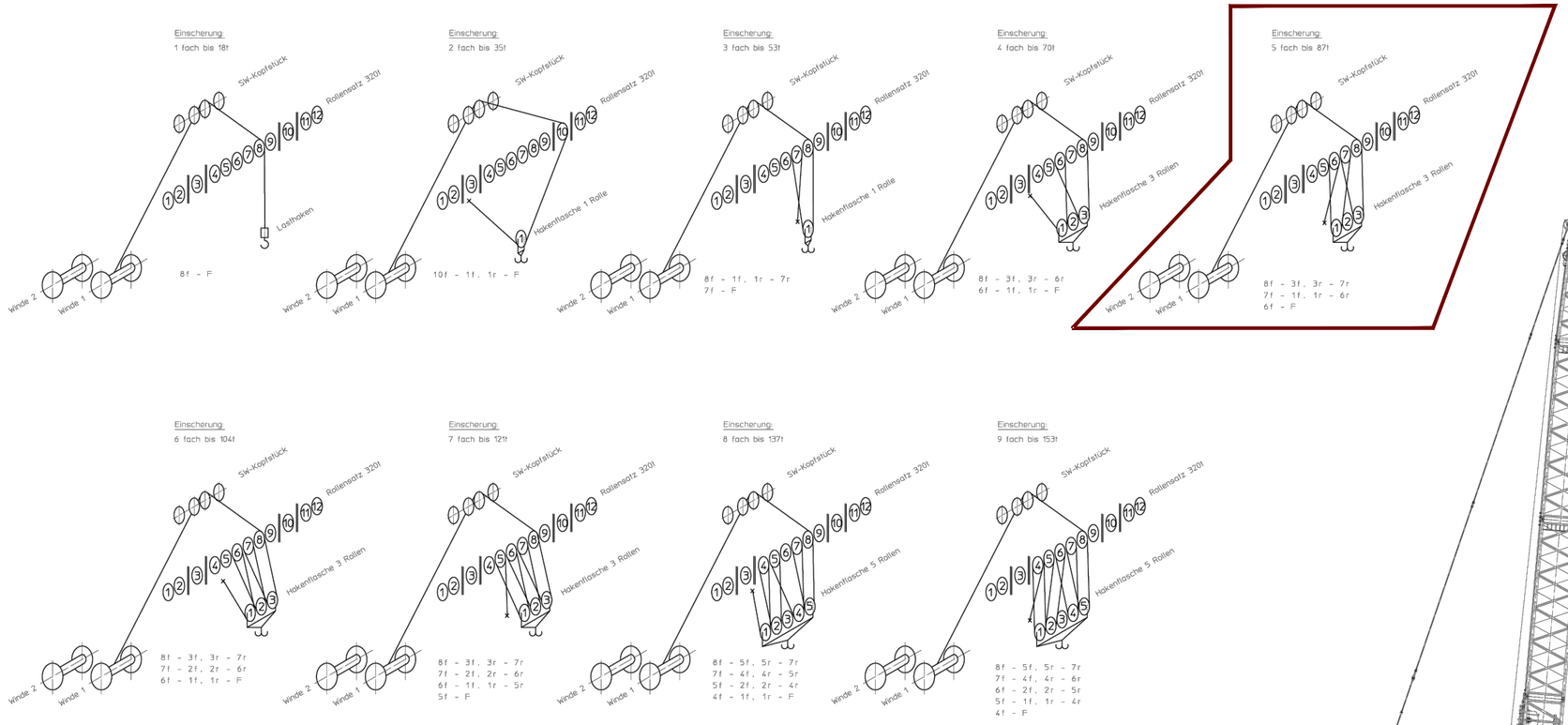
BUCKNER HEAVYLIFT CRANES



Einscherung SW-Kopfstück
mit Lasthaken
Hakenflasche 1 Rolle
Hakenflasche 3 Rollen
Hakenflasche 5 Rollen

F = Fixpount = Festpunkt
f = front = Vorne
r = rear = hinten

Blatt 01 von 06

LWE_CAD

30.01.2008 | SAR

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PROJECT:

LR1600 SDBW 197' + 197'

LOCATION:	–
BUCKNER CONTACT:	Andy Moore, P.E. AndyM@BucknerHeavylift.com
LIFT PLAN BY:	Andy Moore, P.E. AndyM@BucknerHeavylift.com

DRAWING NOTES:

Reeving (2)

LR1600/2	
Operating Mode	SDWB
Main Boom Length	60m (197')
Luffing Jib Length	60m (197')
Derrick Length	36m (118')
Superstructure CWT	150t (331k)
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BUCKNER HEAVYLIFT CRANES

SDWB/SDWVB, slewing platform ballast 150t / central ballast 65t derrick radius 10m, derrick ballast radius 10m **TAB 181 00 023-00**

S-boom: **W-connector head with pulley set 300t**
W-boom: **SW-end section with pulley set 320t**
on crawlers 8.70m x 8.40m
without mechanical auxiliary support

System: S 2825.25/20/16
Li 2420.12.5/10/8.8
D 2420.20/16

Page: 3 of 7

SDWB/SDWVB DR 10m / DBR 10m				Required derrick ballast [t] for derrick radius (DR) = derrick ballast radius (DBR) = 10m				
				for a permissible Weight [t] of hook block on W-boom				
				2	6	11	16	20
			12 a)	130 b)	150 b)	190	220	250
			18 a)	140 b)	180	220	250	280
			24	130	140	170	190	200
			30	130	150	170	190	200
			36	110	130	150	170	180
			42	100	110	130	150	160
			48	100	100	100	110	120
S [m]	60	W [m]	54	100	100	100	100	100
			60	120	120	120	120	120
			66	120	120	120	120	120
			72	130	130	130	130	130
			78	140	140	140	140	140
			84	150	150	150	150	-
			90	160	160	160	180	-
			96	170	170	170	-	-
			12 a)	180 b)	200 b)	240	280	300
			18 a)	190 b)	230	270	310	340
			24	180 b)	200	220	250	260
			30	180 b)	200	220	250	260
			36	170	190	210	240	250
			42	160	180	200	220	230
			48	140	150	170	190	200
S [m]	66	W [m]	54	150	150	150	150	160
			60	160	160	160	160	160
			66	170	170	170	170	170
			72	180	180	180	180	180
			78	190	190	190	190	190
			84	200	200	200	200	-
			90	200	200	200	200	-
			96	220	220	220	-	-

LWE//18150-21-02/en

PROJECT:

LR1600 SDBW 197' + 197'

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DRAWING NOTES:

Erection & Take Down

LR1600/2	
Operating Mode	SDWB
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BUCKNER HEAVYLIFT CRANES

1 Explanation for wind speed charts

Abbreviation	Description
HA	Main boom length
D	Derrick boom length
HI	Length of moveable and fixed accessories (W = luffing lattice jib; WV = luffing lattice jib, assembled at a fixed angle to the main boom; F = fixed lattice jib)
WHA	Angle data: Main boom to the horizontal **Caution** : The angle position can be outside of the load charts.
WHI	Angle data of movable and fixed accessories. For movable accessories (W = luffing lattice jib; WV = luffing lattice jib, assembled at a fixed angle to the main boom) the angle to the horizontal is noted. For fixed accessories (F = fixed lattice jib), the intermediate angle between the main boom and fixed jib is noted. **Caution** : The angle position can be outside of the load charts.
RAD	Radius of hook block to the center of the roller ring connection
HKFL	Maximum hook block weight
OWB	Turntable ballast
ZBL	Central ballast
DRAD	Radius to derrick ballast
VWAB	Maximum permissible wind speed at 360 degree wind direction and applied slewing brakes.
VWABF	Maximum possible wind speed for turning against side wind. Also considered is that with applied slewing brakes, the luffing jib or in main mast operation the main boom can be held in horizontal postion (0 degrees) by the slewing brakes against the side wind.
VWRST	Permissible wind speed for take down procedure.

18.05 Charts for maximum permissible wind speeds for crane operation 027663-03

Permissible wind speeds **WAB-TAB18100079-01**

HA [m]	D [m]	HI [m]	WHA [°]	WHI [°]	RAD [m]	HKFL [t]	OWB [t]	ZBL [t]	DRAD [m]	VWAB [m/s]	VWABF [m/s]	VWRST [m/s]
S -54	D-36	W-12	60	48	39.1	16.0	150.0	65.0	13	18.4	18.4	12.6
S -54	D-36	W-18	65	42	40.1	16.0	150.0	65.0	13	18.8	18.8	12.6
S -60	D-36	W-24	70	58	37.4	16.0	150.0	65.0	13	19.0	19.0	12.6
S -60	D-36	W-30	75	29	45.2	16.0	150.0	65.0	13	17.9	17.9	12.6
S -60	D-36	W-36	75	47	44.0	16.0	150.0	65.0	13	17.4	17.4	12.6
S -60	D-36	W-42	75	55	43.6	16.0	150.0	65.0	13	16.9	16.9	12.6
S -60	D-36	W-48	75	63	41.5	16.0	150.0	65.0	13	16.3	16.3	12.6
S -60	D-36	W-54	80	48	50.4	16.0	150.0	65.0	13	15.5	15.5	12.6
S -60	D-36	W-60	80	57	47.1	16.0	150.0	65.0	13	15.1	15.1	12.6
S -60	D-36	W-66	80	61	46.5	16.0	150.0	65.0	13	14.7	14.7	12.6
S -60	D-36	W-72	80	65	45.0	16.0	150.0	65.0	13	14.3	14.3	12.6
S -60	D-36	W-78	80	67	45.0	16.0	150.0	65.0	13	13.8	13.8	12.6
S -60	D-36	W-84	85	60	51.2	16.0	150.0	65.0	13	13.2	13.2	12.6
S -60	D-36	W-90	85	63	50.1	16.0	150.0	65.0	13	13.0	13.0	12.6
S -60	D-36	W-96	85	64	51.3	11.0	150.0	65.0	13	13.4	12.7	12.6
S -60	D-36	W-12	65	49	37.3	16.0	150.0	65.0	13	18.8	18.8	12.6
S -60	D-36	W-18	70	44	37.3	16.0	150.0	65.0	13	19.6	19.6	12.6
S -66	D-36	W-24	75	19	43.0	16.0	150.0	65.0	13	17.9	17.9	12.6
S -66	D-36	W-30	75	46	41.8	16.0	150.0	65.0	13	17.5	17.5	12.6
S -66	D-36	W-36	75	58	40.2	16.0	150.0	65.0	13	17.1	17.1	12.6
S -66	D-36	W-42	75	63	40.3	16.0	150.0	65.0	13	16.2	16.2	12.6
S -66	D-36	W-48	80	47	48.0	16.0	150.0	65.0	13	15.6	15.6	12.6
S -66	D-36	W-54	80	54	47.1	16.0	150.0	65.0	13	15.2	15.2	12.6
S -66	D-36	W-60	80	60	45.5	16.0	150.0	65.0	13	14.8	14.8	12.6
S -66	D-36	W-66	80	65	43.5	16.0	150.0	65.0	13	14.5	14.5	12.6
S -66	D-36	W-72	80	68	42.6	16.0	150.0	65.0	13	13.9	13.9	12.6
S -66	D-36	W-78	85	57	52.1	16.0	150.0	65.0	13	13.5	13.5	12.6
S -66	D-36	W-84	85	61	50.4	16.0	150.0	65.0	13	13.1	13.1	12.6
S -66	D-36	W-90	85	64	49.2	16.0	150.0	65.0	13	12.7	12.7	12.6
S -66	D-36	W-96	85	65	50.3	11.0	150.0	65.0	13	13.1	12.6	12.6
S -66	D-36	W-12	70	51	34.1	16.0	150.0	65.0	13	19.6	19.6	12.6
S -66	D-36	W-18	70	58	36.3	16.0	150.0	65.0	13	18.3	18.3	12.6

PROJECT:

LR1600 SDBW 197' + 197'

LOCATION: –

BUCKNER CONTACT: Andy Moore, P.E. AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E. AndyM@BucknerHeavylift.com

DRAWING NOTES:

Wind Speeds

LR1600/2	
Operating Mode	SDWB
Main Boom Length	60m (197')
Luffing Jib Length	60m (197')
Derrick Length	36m (118')
Superstructure CWT	150t (331k)
Carbody CWT	65t (143k)
Ballast Tray CWT	151t (333k)

PRELIMINARY

FILE: D:\Andy Moore\OneDrive – Buckner Heavylift Cranes\Documents – Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 – SDWB 60m + 60m (197' + 197').dwg

CREATED:			09.19.2024 @ 1:10:00 PM
EDITING TIME:	3h36m	FILE SIZE:	2396.02Kb
PAPER SIZE:			ANSI full bleed B (11.00 x 17.00 inches)
SAVED:			09.19.2024 @ 1:08:48 PM
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Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	09.19.2024	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
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009	----	----
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SHEET: 009 OF 010

BUCKNER HEAVYLIFT CRANES

ISO DIN

xx° SDB	W
197ft	197ft

074571 typ1: D=1 1/8"(28mm) *** 086 22.00

ft > < x 1000 lb **CODE >1052<** N181 2E31

ft	197	197	197	197	197	197	197	197	197	197	197	197	197	197
75														
80														
85														
90														
95														
100														
105														
110														
115														
120														
125														
130														
135														
140	211.0	231.0	52.7	87.0	121.0	155.0	189.0	223.0	236.0		54.6	93.5	132.0	171.0
150	201.0	222.0	49.4	82.5	116.0	149.0	182.0	214.0	232.0	236.0	51.2	89.0	127.0	164.0
160	185.0	205.0	43.7	75.0	106.0	137.0	168.0	198.0	223.0	234.0	45.5	81.0	117.0	152.0
170	171.0	190.0	38.7	68.0	98.0	127.0	157.0	183.0	207.0	226.0	40.3	74.0	108.0	141.0
180	159.0	177.0	34.3	62.5	90.5	119.0	146.0	170.0	193.0	214.0	35.9	68.0	100.0	132.0
190	148.0	165.0	30.3	57.1	84.0	111.0	136.0	159.0	180.0	201.0	31.8	62.5	93.0	123.0
200	138.0	154.0	26.7	52.3	78.0	103.0	127.0	148.0	169.0	189.0	28.1	57.3	86.5	116.0
210	129.0	144.0	23.4	47.9	72.5	97.0	118.0	138.0	158.0	177.0	24.8	52.7	80.5	109.0
220	121.0	135.0	20.6	44.1	67.5	90.5	111.0	130.0	149.0	167.0	21.9	48.7	75.5	101.0
230	113.0	127.0	18.0	40.7	63.5	84.5	104.0	122.0	140.0	157.0	19.3	45.1	71.0	94.5
240	107.0	120.0		37.7	59.4	79.0	97.5	115.0	130.0	142.0		42.0	66.5	88.5
250														
260														
270														
* n *	6	7	2	3	4	4	5	6	7	7	2	3	4	5
xx	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
yy	33.0	33.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	49.0	49.0	49.0	49.0
zz (x 1000)	661.0	772.0	0.0	110.0	220.0	331.0	441.0	551.0	661.0	772.0	0.0	110.0	220.0	331.0
ft/s	30	30	30	30	30	30	30	30	30	30	30	30	30	30

xx° SDB	W	331,000 lbs	143,000 lbs	zz lbs / yy ft
197ft	197ft			

PROJECT:

LR1600 SDBW 197' + 197'

LOCATION: –

BUCKNER CONTACT: Andy Moore, P.E. AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore, P.E. AndyM@BucknerHeavylift.com

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010	----	----

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BUCKNER HEAVYLIFT CRANES