

BUCKNER

HEAVYLIFT CRANES

Contents	
Sheet	Description
001	Title Page
002	Build Sheet
003	Rod Plan
004	Reeving Plan
005	Erection and Takedown
006	Load Chart
007	Balanced Boom

PROJECT: LR1600 SL 72m

LOCATION: -----
 BUCKNER CONTACT: Dan Ives, PE
 Dani@BucknerCompanies.com
 LIFT PLAN BY: Dan Ives, PE
 Dani@BucknerCompanies.com

DRAWING NOTES:
 Title Page

FILE: C:\Buckner\Buckner Heavylift Cranes\Engineering - Documents\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL 72m (236').dwg
 CREATED: 05.03.2021 @ 1:14:16 PM
 EDITING TIME: 5h0m FILE SIZE: 1288.62Kb
 PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
 SAVED: 05.03.2021 @ 1:29:30 PM
 PLOTTED: 05.03.2021 @ 1:29:36 PM

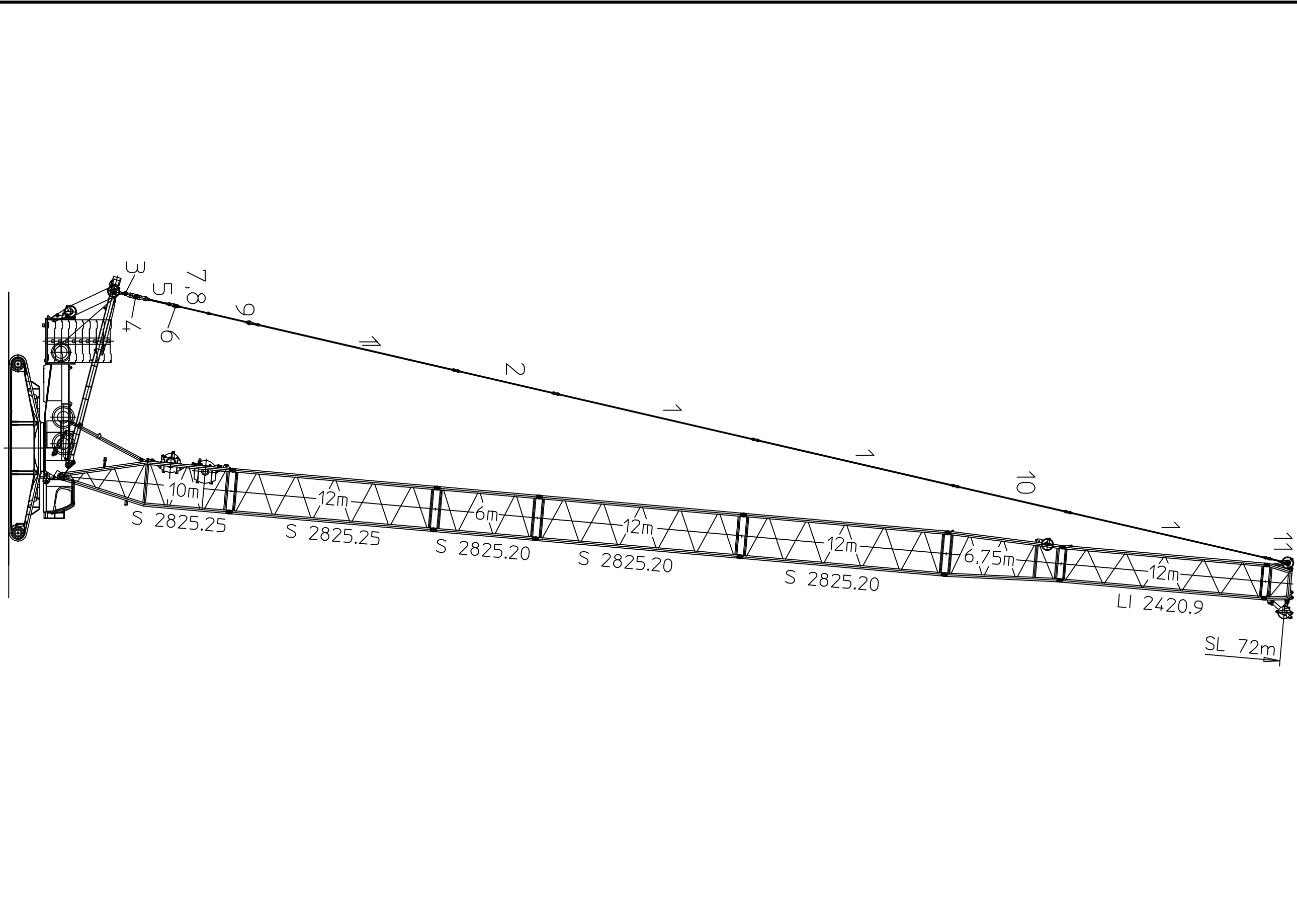
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	05.03.2021	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 001 OF 007





PROJECT:
LR1600 SL 72m

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com

LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Build Sheet

FILE: C:\Buckner\Buckner Heavylift Cranes\Engineering - Documents\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL 72m (236').dwg

CREATED: 05.03.2021 @ 1:14:16 PM

EDITING TIME: 5h0m FILE SIZE: 1288.62Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 05.03.2021 @ 1:29:30 PM

PLOTTED: 05.03.2021 @ 1:29:36 PM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	05.03.2021	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 002 OF 007



Pos.	Item	Description	Page
1	964522208	ROD CPL.	12 M
2	964344008	ROD CPL.	6 M
3	964545608	ROD CPL.	1 M
5	964568008	ROD CPL.	2.05M
6	964700008	BRACKET WITH BOARD	0.25M
7	964699808	ROD WITH BOARD	1.85M
8	964699908	ROD WITH BOARD	1.85M
9	964698608	ROD CPL.	2.975M
10	964867908	ROD CPL.	6.75M
11	964904208	ROD CPL.	1.075M
1000	989911008	RODS/ PULL RODS LR 1600-2	F. S

2.12.2016	LIEBHERR	LR 1600/2 (097927) RODS/ PULL RODS LR 1600-2 F. S	967946708 Page: 7
-----------	-----------------	--	----------------------

PROJECT: LR1600 SL 72m

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Rod Plan

FILE: C:\Buckner\Buckner Heavylift Cranes\Engineering - Documents\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL 72m (236').dwg
CREATED: 05.03.2021 @ 1:14:16 PM
EDITING TIME: 5h0m FILE SIZE: 1288.62Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 05.03.2021 @ 1:29:30 PM
PLOTTED: 05.03.2021 @ 1:29:37 PM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	05.03.2021	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

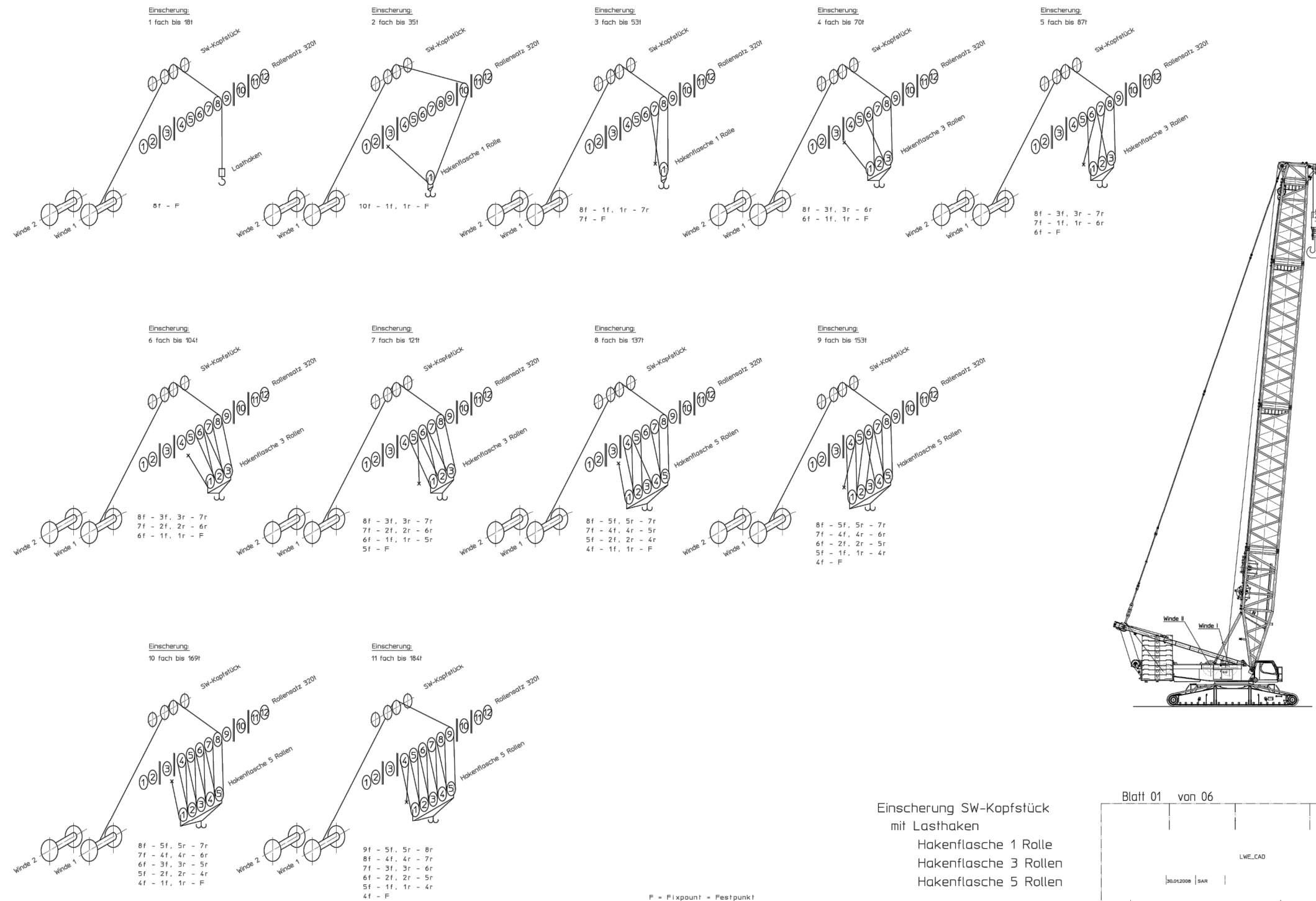
SHEET: 003 OF 007



PROJECT:
LR1600 SL 72m

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Reeving Plan



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

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

Blatt 01 von 06

LWE_CAD

30.01.2008 | SAR

1666-722.00.005-001

9866 408 08

FILE: C:\Buckner\Buckner Heavylift Cranes\Engineering - Documents\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL 72m (236').dwg
CREATED: 05.03.2021 @ 1:14:16 PM
EDITING TIME: 5h0m | FILE SIZE: 1288.62Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 05.03.2021 @ 1:29:30 PM
PLOTTED: 05.03.2021 @ 1:29:37 PM

Revisions

All Sheets Same Revision Level		
Rev.	Date	Description
000	05.03.2021	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 004 OF 007



**SL-operation, without / with auxiliary support
SW-end section with pulley set 320 t**

TAB 181 00 007-00

on crawlers 8.70m x 8.40 m

System: S 2825.25/20/16
Li 2825.12.5/10/8.8

Page: 1 of 1

Operation with boom nose: The permissible hook block weight on the main boom is reduced by the weight of the boom nose (approx. 1t) and the hook block on the boom nose.

SL without auxiliary support		Permissible weight[t] of hook block on main boom								
		for slewing platform / central ballast [t]								
		190 / 65	170 / 65	150 / 65	150 / 25	130 / 25	110 / 25	110 / 5	70 / 5	30 / 5
Main boom length [m]	54	•	•	•	18.0	14.0	10.0	8.5	-	-
	60	•	18.0	15.0	12.0	9.0	5.5 *	4.0 *	-	-
	66	15.0	12.0	9.0	7.0	4.0 *	-	-	-	-
	72	10.0	7.5	4.5 *	2.5 *	-	-	-	-	-
	78	6.5	4.0 *	-	-	-	-	-	-	-
	84	2.5 *	-	-	-	-	-	-	-	-
	90	-	-	-	-	-	-	-	-	-
	96	-	-	-	-	-	-	-	-	-
	102	-	-	-	-	-	-	-	-	-

SL with auxiliary support (to the side)		Permissible weight[t] of hook block on main boom								
		for slewing platform / central ballast [t]								
		190 / 65	170 / 65	150 / 65	150 / 25	130 / 25	110 / 25	110 / 5	70 / 5	30 / 5
Main boom length [m]	54	•	•	•	•	•	•	•	•	9.0
	60	•	•	•	•	•	•	•	14.0	4.5
	66	•	•	•	•	•	19.0	17.0	8.5	-
	72	•	•	•	•	17.5	14.0	11.5	-	-
	78	•	•	19.0	17.0	13.0	9.5	7.5	-	-
	84	16.0	15.0	13.0	12.0	8.5	5.5	-	-	-
	90	11.0	10.0	8.5	7.5	4.5	-	-	-	-
	96	7.0	6.0	5.0	-	-	-	-	-	-
	102	3.0 *	-	-	-	-	-	-	-	-

- Hook block weight to maximum 20 t permissible
- Erection is not permissible
- * For the maximum load and / or to spool out the hoist rope, a higher hook block weight is required. Erection must then be made via the auxiliary support. For the S-102, the heavier hook block must be carried along on the ground during erection / take down, or the auxiliary weights must be attached after erection and removed before take down.

LWIE/18/150-21-02/en

PROJECT:
LR1600 SL 72m

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Erection and Takedown

FILE: C:\Buckner\Buckner Heavylift Cranes\Engineering - Documents\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL 72m (236').dwg
CREATED: 05.03.2021 @ 1:14:16 PM
EDITING TIME: 5h0m FILE SIZE: 1288.62Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 05.03.2021 @ 1:29:30 PM
PLOTTED: 05.03.2021 @ 1:29:39 PM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	05.03.2021	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 005 OF 007



ISO DIN

SL	--
236ft	

097927 typ1: D=1 1/8"(28mm) *** 018 22.00

ft	ft > < x 1000 lb	CODE >0121<	L181 0700
32	572.0		
34	567.0		
36	559.0		
38	535.0		
40	510.0		
45	444.0		
50	391.0		
55	347.0		
60	311.0		
65	280.0		
70	253.0		
75	228.0		
80	206.0		
85	187.0		
90	171.0		
95	157.0		
100	144.0		
105	133.0		
110	123.0		
115	115.0		
120	106.0		
125	99.0		
130	92.5		
135	86.5		
140	81.0		
150	70.5		
160	61.5		
170	53.4		
180	46.6		
190	40.5		
200	35.1		
210	30.2		
220	26.1		
230	22.5		
* n *	17		



ft/s

42

	SL	--	419,000 lbs	143,000 lbs	360°		
	236ft						

PROJECT: LR1600 SL 72m

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Load Chart

FILE: C:\Buckner\Buckner Heavylift Cranes\Engineering -- Documents\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL 72m (236').dwg

CREATED: 05.03.2021 @ 1:14:16 PM
EDITING TIME: 5h0m FILE SIZE: 1288.62Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 05.03.2021 @ 1:29:30 PM
PLOTTED: 05.03.2021 @ 1:29:40 PM

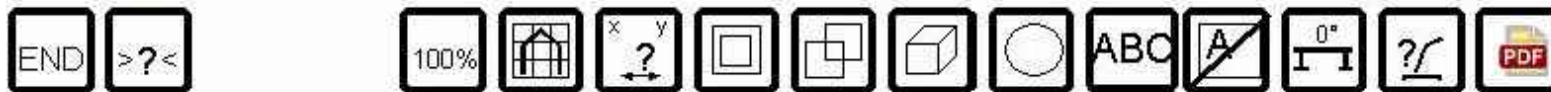
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	05.03.2021	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 006 OF 007





LR 1600/2 000097927

CODE >0121< L181 0700

Inclination angle

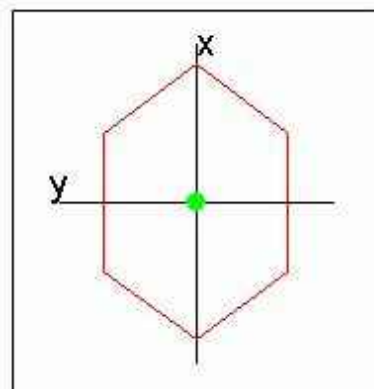
Longitud.incl. [°]

0.0

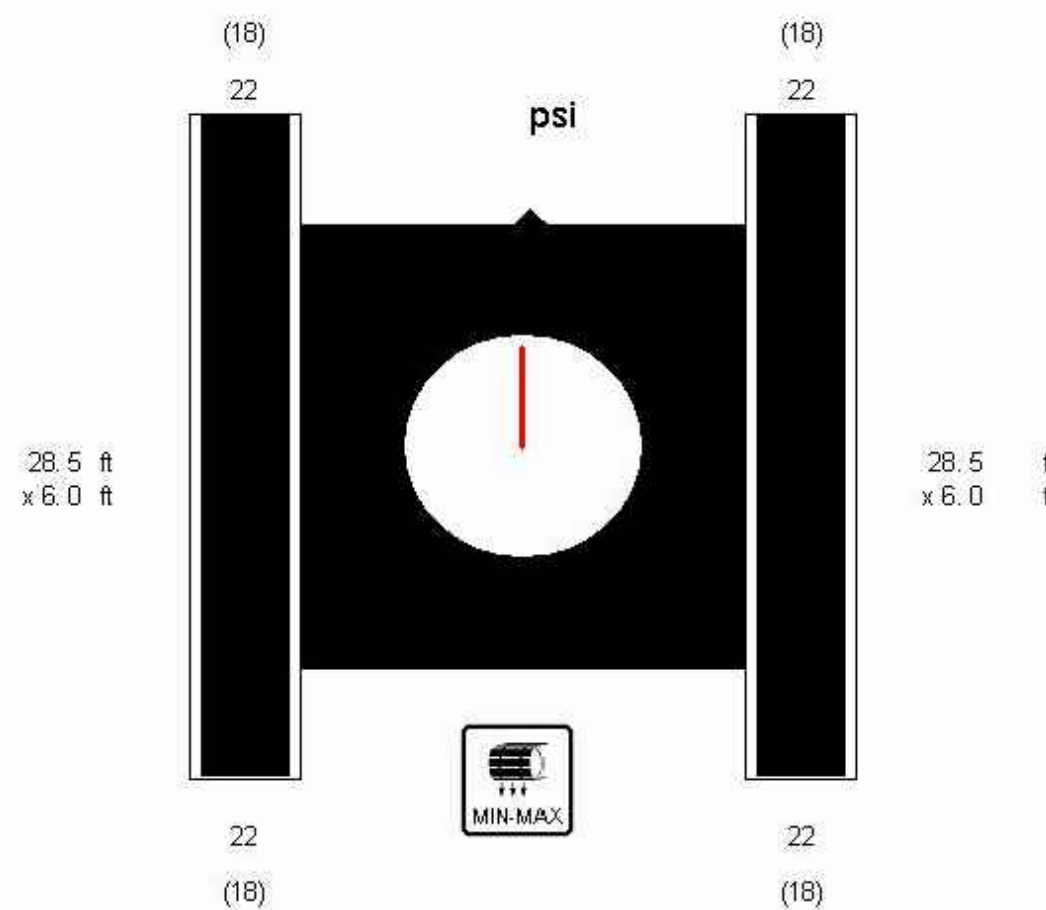
Transverse incl. [°]

0.0

Center of gravity



x 0.0 ft 1049400 lb
y 0.0 ft
z 25.9 ft



lb typ1 n=17
(max) 13 200
107 200

119.3 ft
62.5°

217.8 ft

236.0 ft

0°

SL 236ft --

419,000 lb

143,000 lb

360°

PROJECT:
LR1600 SL 72m

LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Balanced Boom

FILE: C:\Buckner\Buckner Heavylift Cranes\Engineering - Documents\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL 72m (236').dwg
CREATED: 05.03.2021 @ 1:14:16 PM
EDITING TIME: 5h0m FILE SIZE: 1288.62Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 05.03.2021 @ 1:29:30 PM
PLOTTED: 05.03.2021 @ 1:29:40 PM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	05.03.2021	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 007 OF 007

