BUCKNER HEAVYLIFT CRANES

Contents

PROJECT:
LR1500 SDB 72m

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

DRAWING NOTES:
Title Page

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg		
CREATED:	02.28.2025 @ 11:20:22 AM		
EDITING TIME:	0h24m	FILE SIZE:	4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)		
SAVED:	02.28.2025 @ 11:20:22 AM		
PLOTTED:	02.28.2025 @ 11:20:25 AM		

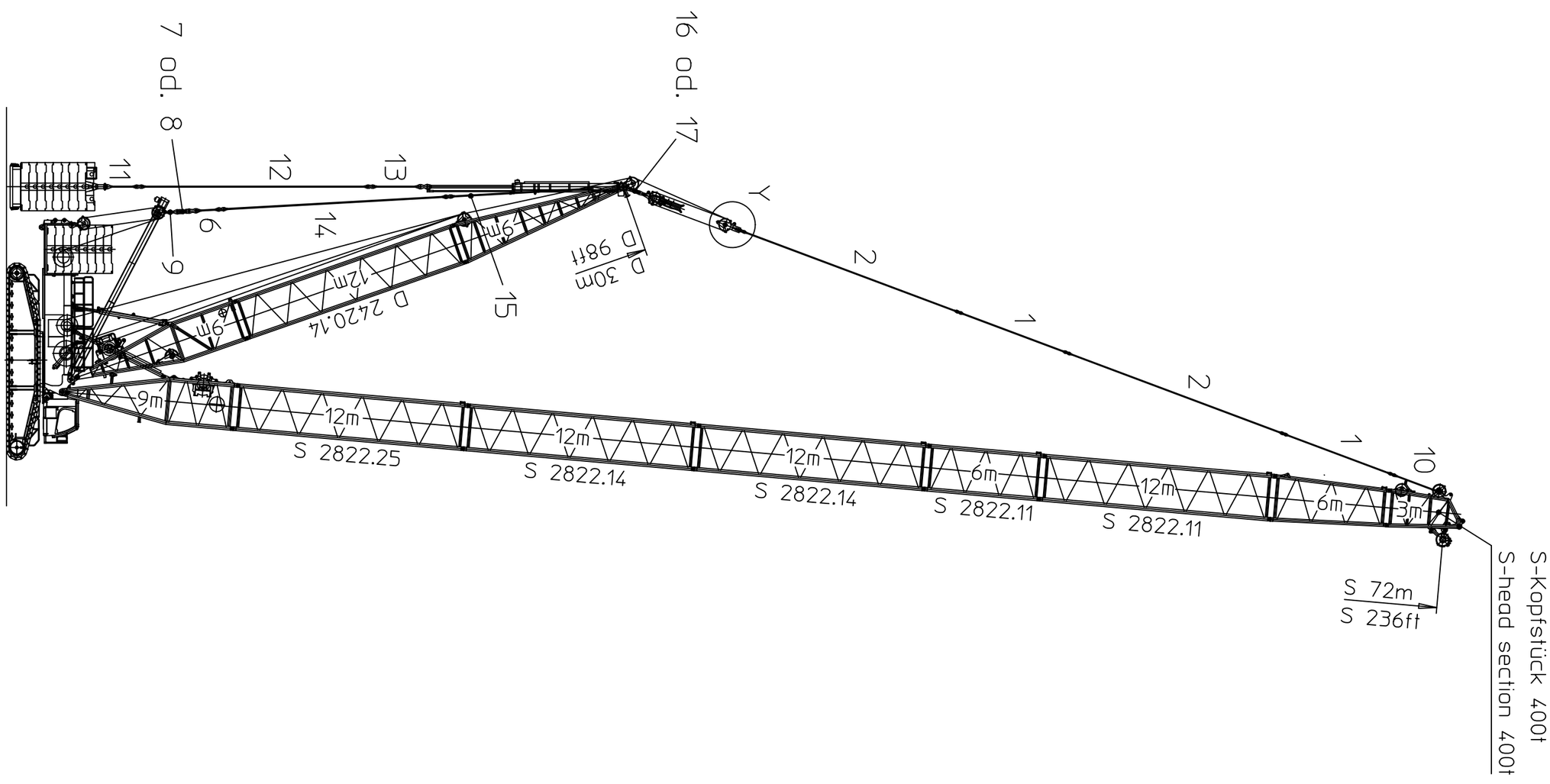
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 001 OF 011

BUCKNER HEAVYLIFT CRANES



PROJECT:

LR1500 SDB 72m

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

DRAWING NOTES:

Build Sheet

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg
CREATED:	02.28.2025 @ 11:20:22 AM
EDITING TIME:	0h24m | FILE SIZE: 4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	02.28.2025 @ 11:20:22 AM
PLOTTED:	02.28.2025 @ 11:20:25 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 002 OF 011

BUCKNER HEAVYLIFT CRANES

Pos.	Item	Description		Page
1	969815308	PULL ROD	6M	
2	969764008	PULL ROD	12M	
6	96002874	PULL ROD		
7	918283908	MEASURING PLATE	2000 KN	80
8	918284008	MEASURING PLATE	2000 KN	
9	96002840	DRAW SHACKLE		
10	96002822	PULL ROD		
11	969988808	PULL ROD	1.9M	
12	969951608	PULL ROD	12.0 M	
13	969930908	PULL ROD	2.825M	
14	969946608	PULL ROD	11.8 M	
15	969931008	DRAWBAR PRE-ASS	7.3M	
16	918283508	MEASURING PLATE	1250 KN	67
17	918283808	MEASURING PLATE	1250 KN	
18	96009849	PULL ROD		
19	96004924	ROD CPL.		
25	96003783	GUY SHACKLE	ABSPANNSTANGEN	
26	96003784	CROSS STRAP	OBEN	
27	96003785	CROSS STRAP	MITTE	
28	96003786	CONNECTING BRACKET	UNTEN	
29	96003788	CONNECTING LINK	ZW. ABSPANNSEILE	
30	97076059	FIBRE TENSIONING ROPE	28X1.32M	
31	97076081	FIBRE TENSIONING ROPE	28X1.75M	
32	97076074	FIBRE TENSIONING ROPE	28X2.25M	
33	97076072	FIBRE TENSIONING ROPE	28X2.75M	
34	97076061	FIBRE TENSIONING ROPE	28X3.75M	
1000	98023047	RODS/ PULL RODS LR 1500	F. SDB/BW	

PROJECT:
LR1500 SDB 72m

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

DRAWING NOTES:
Rod Plans

FILE:	C:\Users\Dan Ives\OneDrive - Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 - SDB 72m (236').dwg
CREATED:	02.28.2025 @ 11:20:22 AM
EDITING TIME:	0h24m
FILE SIZE:	4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	02.28.2025 @ 11:20:22 AM
PLOTTED:	02.28.2025 @ 11:20:25 AM

Revisions

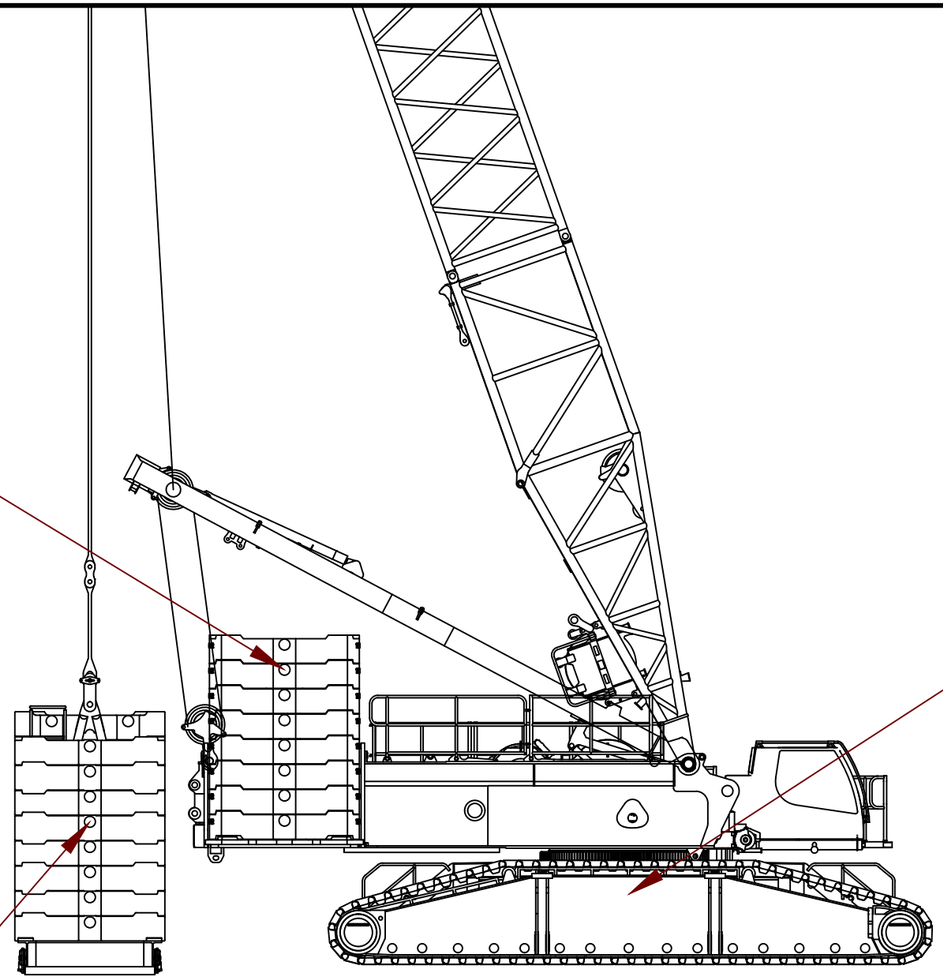
All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 003 OF 011

BUCKNER HEAVYLIFT CRANES

Superstructure
170 tonnes
16 rocks
10 ton each



Carbody
40 tonnes

Tray
270 tonnes
27 rocks
10 ton each

PROJECT:
LR1500 SDB 72m

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

DRAWING NOTES:
Counterweight Arrangement

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg
CREATED:	02.28.2025 @ 11:20:22 AM
EDITING TIME:	0h24m | FILE SIZE: 4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	02.28.2025 @ 11:20:22 AM
PLOTTED:	02.28.2025 @ 11:20:26 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

BUCKNER HEAVYLIFT CRANES

1 Crane operation with 1 hoist rope F = 180 kN and d = 1 1/8” (28 mm) (EST1)

Note

▶ The net weight of a hook block can be increased using auxiliary weights. The respective weight is indicated on the side of the auxiliary weights. Possible auxiliary weights are specified in the following table.

Auxiliary weights	
500 kg	1105 lbs

1.1 Load hook 20 E (SWL 20 t (44100 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
18.2 t	40000 lbs	0	1	1.1 t	2430 lbs

1.2 Hook block 63 EM (SWL 63 t (138900 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
54.0 t	118900 lbs	1	3	1.0 t	2210 lbs

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	2.0 t	4420 lbs
4 auxiliary weights	3.0 t	6630 lbs

1.3 Hook block 125 DM (SWL 125 t (275630 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
123.4 t	272100 lbs	3	7	1.5 t	3310 lbs

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	2.5 t	5520 lbs
4 auxiliary weights	3.5 t	7730 lbs
6 auxiliary weights	4.5 t	9940 lbs
8 auxiliary weights	5.5 t	12150 lbs

1.4 Hook block 250 DM (SWL 250 t (551250 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
250.0 t	551250 lbs	7	15	4.0 t	8820 lbs

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	5.0 t	11030 lbs
4 auxiliary weights	6.0 t	13240 lbs
6 auxiliary weights	7.0 t	15450 lbs

1.5 Hook block 320 DM (SWL 320 t (705600 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
300.6 t	662700 lbs	9	18	4.5 t	9920 lbs

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	5.5 t	12130 lbs
4 auxiliary weights	6.5 t	14340 lbs
6 auxiliary weights	7.5 t	16550 lbs
8 auxiliary weights	8.5 t	18760 lbs

1.6 Hook block 500 DMZ (SWL 500 t (1102500 lbs))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
403.6 t	889800 lbs	13	25	5.5 t	12130 lbs

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	6.5 t	14340 lbs
4 auxiliary weights	7.5 t	16550 lbs
6 auxiliary weights	8.5 t	18760 lbs
8 auxiliary weights	9.5 t	20970 lbs
10 auxiliary weights	10.5 t	23180 lbs
12 auxiliary weights	11.5 t	25390 lbs

PROJECT:
LR1500 SDB 72m

LOCATION: ----

BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerHeavylift.com

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

DRAWING NOTES:
Hook Blocks

FILE: C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg

CREATED: 02.28.2025 @ 11:20:22 AM
EDITING TIME: 0h24m FILE SIZE: 4469.37Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 02.28.2025 @ 11:20:22 AM
PLOTTED: 02.28.2025 @ 11:20:26 AM

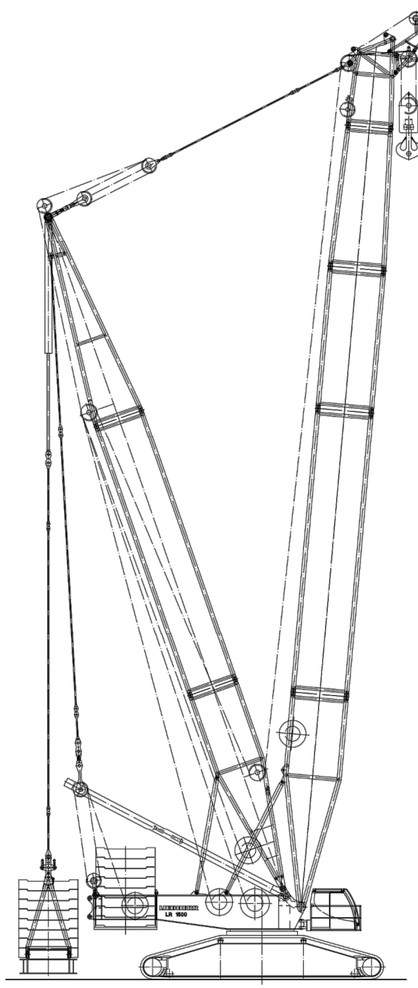
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

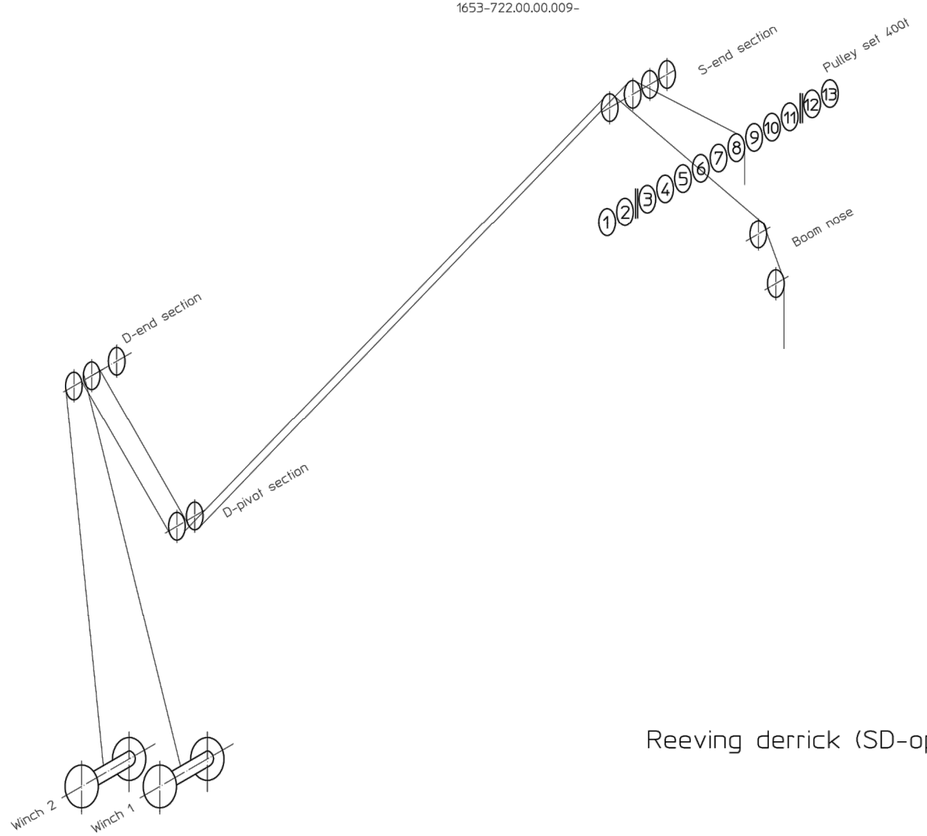
SHEET: 005 OF 011

BUCKNER HEAVYLIFT CRANES



Reeving:

With derrick up to S-end section,
For additional reeving, see
1653-722.00.00.006-
With derrick up to boom nose,
for additional reeving, see
1653-722.00.00.009-



Reeving derrick (SD-operation)

Page 01 from 04

Static inspected:		Date	Name
	Administrator		R.Bohnacker
	Dep. manager		
Comment:	Page 4, SLDF operation with 2 hooks created.		

Fertiggewicht/Weight/Poids		Tolerierung / Tolerance / tolérance	ISO 8015
		Mech.Bearbeitung / machining / usinage mécanique	ISO 2768-mk
Dokumentation / Distribution / Documentation	Bearbeitung/Finish/Usinage	Schweißkonstruktion / welded structure / Constructions soudées	ISO 13920 BF
		Brennschneiden / thermal cutting / coupage thermique	ISO 9013-442

Weitere Anforderungen siehe Teilestromsatz
further specifications see parts master record
autres spécifications cf. nomenclature

Für die Herstellung der Liefergegenstände gelten die aktuellen Fertigungsunterlagen
For the delivery of all items the newest documents apply
Les documents de fabrication relatifs à la réalisation de l'objet de livraison

Projektion E	Datum / Date / Date	Name / Name / Nom
gezeichnet/drawn/dessiné	17.07.2015	SAR
Abteilungsleiter/Sous-chef de section		
Gruppenleiter/Sous leader/chef de groupe		
Abteilungsleiter/head/chef de section		

A1

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

Maßstab / Scale / Echelle	Bezeichnung/Description/Dénomination	Zeichnungs Nr./Drawing No./N°de dessin
1:100	REEVING PLAN DERRICK	1653-722.00.00.004-001
		Ident Nr./Ident No./N°d'ident 9802 3553

PROJECT:

LR1500 SDB 72m

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

DRAWING NOTES:

Reeving Plan – Derrick

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg
CREATED:	02.28.2025 @ 11:20:22 AM
EDITING TIME:	0h24m | FILE SIZE: 4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	02.28.2025 @ 11:20:22 AM
PLOTTED:	02.28.2025 @ 11:20:27 AM

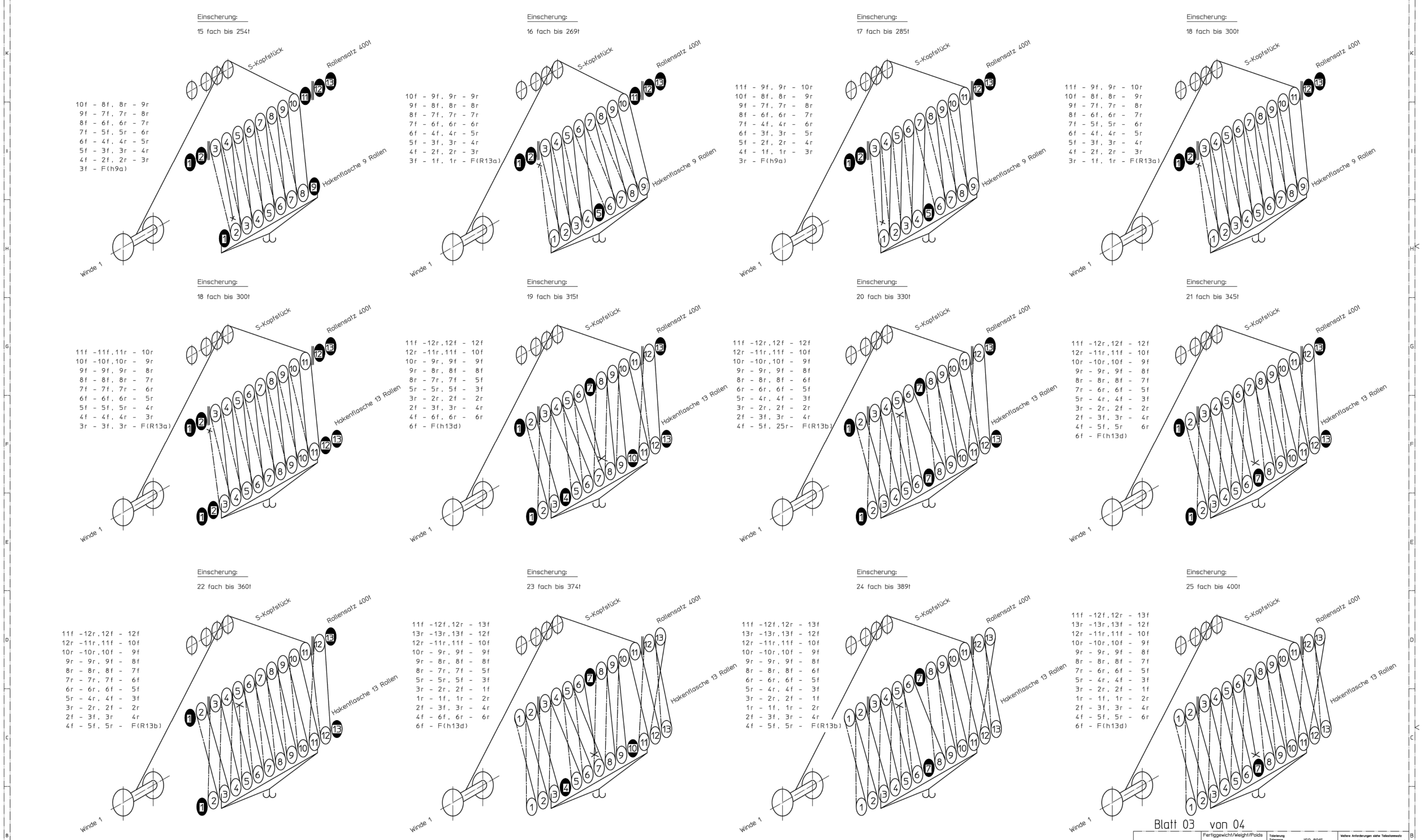
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 006 OF 011

BUCKNER HEAVYLIFT CRANES



Seilverlauf	
Vorne-Vorne	F = Fixpoint = Festpunkt
Hinten-Hinten	f = front = Vorne
Wechsel	r = rear = hinten
	ⓧ = freie Rolle

Blatt 03 von 04

Einscherung S-Kopfstück
mit Hakenflasche 9 Rollen
mit Hakenflasche 13 Rollen

A0

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

1:80

EINSCHERPLAN
S-KOPFST.400T

1653-722.00.00.006-004

9802 3555

PROJECT:

LR1500 SDB 72m

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

DRAWING NOTES:

Reeving Plan – S-head

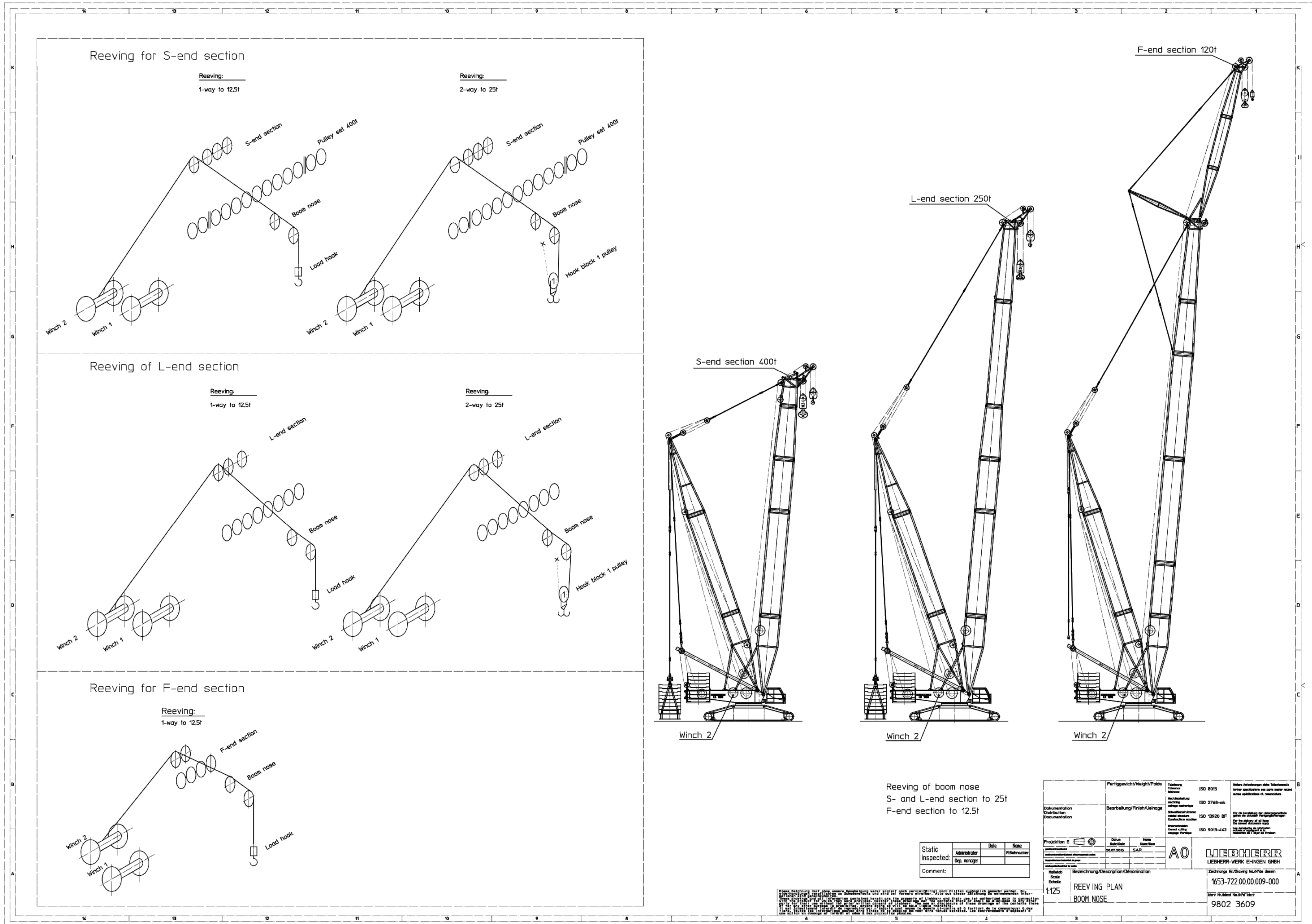
FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg
CREATED:	02.28.2025 @ 11:20:22 AM
EDITING TIME:	0h24m
FILE SIZE:	4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	02.28.2025 @ 11:20:22 AM
PLOTTED:	02.28.2025 @ 11:20:27 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

BUCKNER HEAVYLIFT CRANES



PROJECT:

LR1500 SDB 72m

LOCATION: ----

BUCKNER CONTACT: Dan Ives, PE Dani@BucknerHeavylift.com

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

DRAWING NOTES:

Reeving Plan – Rooster

FILE: C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg

CREATED: 02.28.2025 @ 11:20:22 AM

EDITING TIME: 0h24m | FILE SIZE: 4469.37Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 02.28.2025 @ 11:20:22 AM

PLOTTED: 02.28.2025 @ 11:20:28 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

BUCKNER HEAVYLIFT CRANES

SDB – operation, turntable ballast 170t / central ballast 40t
S-end section with roller set R 12

aat_252_002_00001_00_003
Page: 5 of 8

On crawlers 7.9m x 7.6m x 1.5m
Wind: maximum 11.1m/s
Ground slope: maximum 0.3°

System: S 2822.25/14/11
D 2420.12

Operation with boom nose: The operation with boom nose is possible from a "permissible weight of hook block on main boom" of 2t. In that case, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose (0.5t) (incl. hoist rope).

SDB DR 9m DBR 9m	Permissible weight of hook block [t] on main boom for derrick ballast [t] for derrick radius (DR) 9m / derrick ballast radius (DBR) 9m										
Main boom length [m]	0	30	60	90	120	150	180	210	240	260	280
36	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-
60	•	•	•	•	•	•	•	•	•	•	•
66	13	•	•	•	•	•	•	•	•	•	•
72	9.4	14	•	•	•	•	•	•	•	•	•
78	5.5	10	14	•	•	•	•	•	•	•	•
84	2.6	6.9	11	•	•	•	•	•	•	•	•
90	-	3.4	7.4	11	•	•	•	•	•	•	•
96	-	-	4.3	8.1	11	•	•	•	•	•	•
102	-	-	1	4.5	8.1	11	•	•	•	•	•
108	-	-	-	1.7	5.1	8.4	11	•	•	•	•
114	-	-	-	-	1.8	5	8.1	11	14	•	•

- • Hook block weight to 15t permissible
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This 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.

LWE//26250-03-02/en

SDB – operation, turntable ballast 170t / central ballast 40t
S-end section with roller set R 12

aat_252_002_00001_00_003
Page: 6 of 8

On crawlers 7.9m x 7.6m x 1.5m
Wind: maximum 11.1m/s
Ground slope: maximum 0.3°

System: S 2822.25/14/11
D 2420.12

Operation with boom nose: The operation with boom nose is possible from a "permissible weight of hook block on main boom" of 2t. In that case, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose (0.5t) (incl. hoist rope).

SDB DR 11m DBR 11m	Permissible weight of hook block [t] on main boom for derrick ballast [t] for derrick radius (DR) 11m / derrick ballast radius (DBR) 11m										
Main boom length [m]	0	30	60	90	120	150	180	210	240	260	280
36	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-
60	•	•	•	•	•	•	•	•	•	•	•
66	14	•	•	•	•	•	•	•	•	•	•
72	9.8	•	•	•	•	•	•	•	•	•	•
78	5.9	11	•	•	•	•	•	•	•	•	•
84	2.9	7.9	12	•	•	•	•	•	•	•	•
90	-	4.3	8.9	13	•	•	•	•	•	•	•
96	-	1.5	5.8	10	14	•	•	•	•	•	•
102	-	-	2.4	6.5	10	14	•	•	•	•	•
108	-	-	-	3.6	7.4	11	•	•	•	•	•
114	-	-	-	-	4	7.7	11	14	•	•	•

- • Hook block weight to 15t permissible
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This 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.

LWE//26250-03-02/en

PROJECT:
LR1500 SDB 72m

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

DRAWING NOTES:
Erection & Takedown 1

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg		
CREATED:	02.28.2025 @ 11:20:22 AM		
EDITING TIME:	0h24m	FILE SIZE:	4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)		
SAVED:	02.28.2025 @ 11:20:22 AM		
PLOTTED:	02.28.2025 @ 11:20:29 AM		

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 009 OF 011

BUCKNER HEAVYLIFT CRANES

SDB – operation, turntable ballast 170t / central ballast 40t
S-end section with roller set R 12

aat_252_002_00001_00_003
Page: 7 of 8

On crawlers 7.9m x 7.6m x 1.5m
Wind: maximum 11.1m/s
Ground slope: maximum 0.3°

System: S 2822.25/14/11
D 2420.12

Operation with boom nose: The operation with boom nose is possible from a "permissible weight of hook block on main boom" of 2t. In that case, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose (0.5t) (incl. hoist rope).

SDB DR 13m DBR 13m	Permissible weight of hook block [t] on main boom for derrick ballast [t] for derrick radius (DR) 13m / derrick ballast radius (DBR) 13m										
Main boom length [m]	0	30	60	90	120	150	180	210	240	260	280
36	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-
60	•	•	•	•	•	•	•	•	•	•	•
66	14	•	•	•	•	•	•	•	•	•	•
72	10	•	•	•	•	•	•	•	•	•	•
78	6.2	12	•	•	•	•	•	•	•	•	•
84	3.2	8.9	14	•	•	•	•	•	•	•	•
90	-	5.2	10	•	•	•	•	•	•	•	•
96	-	2.3	7.3	12	•	•	•	•	•	•	•
102	-	-	3.8	8.4	13	•	•	•	•	•	•
108	-	-	1	5.4	9.7	14	•	•	•	•	•
114	-	-	-	2.1	6.2	10	14	•	•	•	•

- • Hook block weight to 15t permissible
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This 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.

LWE//25250-03-02/en

SDB – operation, turntable ballast 170t / central ballast 40t
S-end section with roller set R 12

aat_252_002_00001_00_003
Page: 8 of 8

On crawlers 7.9m x 7.6m x 1.5m
Wind: maximum 11.1m/s
Ground slope: maximum 0.3°

System: S 2822.25/14/11
D 2420.12

Operation with boom nose: The operation with boom nose is possible from a "permissible weight of hook block on main boom" of 2t. In that case, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose (0.5t) (incl. hoist rope).

SDB DR 16m DBR 16m	Permissible weight of hook block [t] on main boom for derrick ballast [t] for derrick radius (DR) 16m / derrick ballast radius (DBR) 16m										
Main boom length [m]	0	30	60	90	120	150	180	210	240	260	280
36	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-
60	•	•	•	•	•	•	•	•	•	•	•
66	•	•	•	•	•	•	•	•	•	•	•
72	10	•	•	•	•	•	•	•	•	•	•
78	6.8	14	•	•	•	•	•	•	•	•	•
84	3.7	10	•	•	•	•	•	•	•	•	•
90	-	6.7	12	•	•	•	•	•	•	•	•
96	-	3.7	9.5	•	•	•	•	•	•	•	•
102	-	-	5.9	11	•	•	•	•	•	•	•
108	-	-	3	8.1	13	14	14	14	14	14	14
114	-	-	-	4.7	9.6	11	11	11	11	11	11

- • Hook block weight to 15t permissible
- - Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This 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.

LWE//25250-03-02/en

PROJECT:
LR1500 SDB 72m

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

DRAWING NOTES:
Erection & Takedown 2

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 – SDB 72m (236').dwg		
CREATED:	02.28.2025 @ 11:20:22 AM		
EDITING TIME:	0h24m	FILE SIZE:	4469.37Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)		
SAVED:	02.28.2025 @ 11:20:22 AM		
PLOTTED:	02.28.2025 @ 11:20:30 AM		

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 010 OF 011

BUCKNER HEAVYLIFT CRANES

T252.002.00007 EN 13000
SDB: S-236ft D-98ft B 074443

HBH

ft	x1000lb											
35	582.4	583.0	583.0	583.0	583.0	583.0	583.0	583.0	414.8	474.3	533.8	584.8
36	580.5	583.0	583.0	583.0	583.0	583.0	583.0	583.0	403.7	461.9	520.0	574.5
38	576.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	381.7	437.1	492.4	547.7
40	572.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	362.1	414.9	467.8	520.7
45	519.5	561.6	574.4	574.4	574.4	574.4	574.4	574.4	319.7	367.2	414.7	462.3
50	466.2	530.7	568.8	568.8	568.8	568.8	568.8	568.8	284.9	328.1	371.2	414.4
55	421.8	488.0	528.7	544.7	562.1	563.8	563.8	563.8	255.9	295.4	334.9	374.4
60	385.1	446.2	486.4	518.5	549.5	560.3	560.3	560.3	231.9	268.4	304.8	341.3
65	353.4	410.2	450.1	485.8	519.5	539.0	546.9	547.0	211.2	245.1	278.9	312.8
70	325.8	378.8	416.4	450.5	483.4	512.1	535.4	535.6	193.2	224.8	256.4	288.0
75	301.7	351.3	388.1	420.6	452.2	482.9	509.9	512.9	177.4	207.1	236.7	266.3
80	280.7	327.5	362.7	393.3	423.2	452.8	480.6	487.5	163.7	191.6	219.5	247.4
85	262.0	306.1	339.2	368.2	396.7	425.1	453.0	462.0	151.5	177.9	204.2	230.6
90	245.2	287.0	319.0	346.6	373.9	401.0	427.8	436.4	140.5	165.5	190.5	215.4
95	230.5	270.3	300.7	326.9	353.1	379.0	404.7	413.0	130.9	154.7	178.5	202.2
100	216.7	254.7	283.4	308.3	333.3	358.2	382.8	390.7	121.6	144.6	167.2	189.8
105	204.3	240.5	267.6	291.3	315.1	339.0	362.4	370.2	112.6	135.4	157.0	178.6
110	193.2	227.8	254.1	276.7	299.7	322.5	345.1	352.6	104.5	127.2	148.0	168.6
115	182.3	215.4	241.2	263.0	285.2	306.9	328.8	335.9	97.0	119.1	139.5	159.3
120	171.5	202.9	229.1	250.0	271.4	292.2	313.3	320.0	90.2	111.3	131.6	150.7
125	161.7	191.6	218.2	238.3	259.0	279.0	299.3	305.7	84.2	104.4	124.2	143.0
130	152.7	181.3	208.0	227.6	247.5	266.8	286.2	292.4	78.6	97.9	117.1	135.5
135	144.5	172.0	198.6	217.8	236.8	255.6	274.3	280.4	73.3	91.9	110.3	128.2
140	137.1	163.6	189.7	208.7	227.0	245.2	263.3	269.2	68.7	86.5	104.1	121.4
145	130.4	155.9	181.4	200.3	218.0	235.7	253.1	258.8	64.3	81.5	98.6	115.3
150	123.9	148.6	173.1	192.2	209.3	226.4	243.3	248.8	60.2	76.8	93.3	109.5
155	117.6	141.3	165.0	184.2	200.7	217.2	233.7	238.9	56.4	72.4	88.2	103.7
160	112.0	135.1	157.9	177.2	193.0	209.1	224.9	230.1	53.0	68.4	83.7	98.6
165	107.0	129.3	151.3	170.6	185.8	201.3	216.7	221.8	49.7	64.7	79.4	93.9
170	101.9	123.5	144.9	164.1	178.6	193.7	208.4	213.5	46.7	61.2	75.3	89.2
175	97.3	118.3	138.9	157.9	172.0	186.6	200.8	205.8	43.9	57.9	71.5	84.9
180	93.2	113.6	133.5	152.1	166.0	180.1	194.0	198.6	41.2	54.8	68.1	81.2
185	89.1	108.9	128.3	146.4	160.1	173.7	187.3	191.6	38.7	52.0	64.9	77.5
190	85.3	104.5	123.3	141.0	154.4	167.7	180.8	184.6	36.4	49.3	61.7	74.0
195	81.9	100.5	119.0	136.2	149.4	162.3	174.9	177.7	34.2	46.8	58.9	70.8
200	78.5	96.5	114.6	131.5	144.4	157.0	168.8	170.6	32.2	44.4	56.1	67.7
205	75.4	92.9	110.6	127.2	139.7	151.7	161.7	162.9	30.3	42.2	53.5	64.8
208	73.6	90.9	108.3	124.8	137.0	148.5	157.0	158.0	29.2	40.9	52.1	63.2
x1000lb	198.4	264.6	330.7	396.8	463.0	529.1	595.2	617.3	0.0	66.1	132.3	198.4
ft	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	29.5	29.5	29.5	29.5
x1000lb	286.6	286.6	286.6	286.6	286.6	286.6	286.6	286.6	374.8	374.8	374.8	374.8
EST1	16x	16x	16x	16x	16x	16x	16x	16x	11x	13x	15x	16x

T252.002.00007 EN 13000
SDB: S-236ft D-98ft B 074443

HBH

ft	x1000lb											
35	585.0	585.0	585.0	585.0	585.0	585.0	585.0					
36	575.4	575.4	575.4	575.4	575.4	575.4	575.4					
38	562.5	568.5	568.5	568.5	568.5	568.5	568.5	387.3	453.3	519.2	562.9	571.8
40	550.7	566.9	568.5	568.5	568.5	568.5	568.5	367.4	430.4	493.4	549.0	570.1
45	508.8	533.3	553.4	557.4	558.1	558.1	558.1	324.4	381.1	437.7	494.4	537.3
50	457.5	483.6	506.8	526.9	547.6	558.1	558.1	289.2	340.6	392.1	443.5	487.8
55	413.9	443.1	465.5	486.4	507.9	527.1	529.3	259.8	306.9	354.0	401.0	446.7
60	377.8	404.9	426.0	446.0	466.8	486.1	491.2	235.5	279.0	322.4	365.9	407.6
65	346.7	372.7	392.5	411.7	431.4	450.4	456.2	214.5	254.9	295.3	335.6	373.7
70	319.6	343.8	362.4	380.6	398.9	417.2	422.5	196.3	234.0	271.6	309.3	342.8
75	295.9	319.2	336.7	354.0	371.2	388.8	393.9	180.3	215.6	250.9	286.2	317.9
80	275.3	297.7	314.0	330.6	346.5	363.3	368.3	166.5	199.7	232.9	266.2	297.5
85	256.9	277.7	293.1	308.8	323.8	339.7	344.6	154.1	185.5	216.9	248.3	278.4
90	240.4	260.6	275.3	290.0	304.4	319.4	324.3	142.9	172.7	202.4	232.2	261.8
95	226.0	245.0	259.1	272.9	286.9	301.0	305.9	133.2	161.5	189.8	218.2	246.5
100	212.5	230.3	243.8	256.9	270.4	283.7	288.5	123.8	151.1	178.1	205.0	231.9
105	200.2	216.9	229.8	242.5	255.4	268.0	272.5	114.5	141.6	167.3	193.1	218.4
110	189.3	205.4	217.9	230.1	242.4	254.4	258.7	106.3	132.8	157.8	182.5	206.5
115	179.1	194.6	206.6	218.4	230.1	241.5	245.6	98.8	124.3	148.9	172.6	195.3
120	169.7	184.4	196.0	207.3	218.5	229.5	233.3	91.8	116.2	140.4	163.4	184.7
125	161.3	175.5	186.4	197.2	208.1	218.7	222.4	85.7	109.1	132.0	154.3	175.1
130	153.3	166.8	177.4	187.8	198.4	208.8	212.3	80.1	102.4	124.3	145.7	166.2
135	145.7	158.5	168.9	179.2	189.5	199.5	202.9	74.8	96.2	117.3	137.8	158.0
140	138.1	150.7	161.1	171.1	181.2	191.0	194.3	70.0	90.6	110.9	130.7	150.3
145	131.4	143.8	153.9	163.7	173.5	183.3	186.4	65.6	85.5	105.2	124.2	143.2
150	125.1	137.1	147.0	156.6	166.1	175.7	178.7	61.5	80.6	99.7	118.1	136.3
155	118.8	130.5	140.2	149.5	158.8	168.3	171.1	57.6	76.1	94.4	112.0	129.5
160	113.3	124.8	134.1	143.2	152.2	161.5	164.2	54.1	72.0	89.6	106.6	123.5
165	108.1	119.5	128.4	137.3	146.1	155.1	157.7	50.8	68.1	85.2	101.7	118.0
170	103.1	114.4	122.8	131.6	140.0	148.7	151.2	47.8	64.5	80.9	96.8	112.7
175	98.4	109.5	117.6	126.1	134.3	142.7	145.2	44.9	61.2	76.9	92.3	107.7
180	94.2	105.1	113.1	121.2	129.2	137.3	139.9	42.2	58.0	73.4	88.3	103.3
185	90.1	100.7	108.6	116.4	124.2	132.0	134.8	39.7	55.0	70.0	84.5	99.0
190	86.1	96.5	104.3	111.7	119.5	126.9	129.8	37.4	52.3	66.7	80.7	94.9
195	82.7	92.9	100.4	107.7	115.3	122.6	125.2	35.2	49.7	63.7	77.4	91.3
200	79.3	89.3	96.6	103.7	111.2	118.3	120.6	33.1	47.2	60.8	74.1	87.7
205	76.2	86.0	93.0	100.1	107.3	114.3	116.4	31.2	44.9	58.1	71.1	84.3
208	74.5	84.1	91.1	98.1	105.0	112.0	114.0	30.1	43.6	56.6	69.4	82.4
x1000lb	264.6	330.7	396.8	463.0	529.1	595.2	617.3	0.0	66.1	132.3	198.4	264.6
ft	29.5	29.5	29.5	29.5	29.5	29.5	29.5	36.1	36.1	36.1	36.1	36.1
x1000lb	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8
EST1	16x	16x	16x	16x	16x	16x	16x	11x	12x	14x	16x	16x

PROJECT:
LR1500 SDB 72m

LOCATION: ----
BUCKNER CONTACT: Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY: Dan Ives, PE Dani@BucknerHeavylift.com
DRAWING NOTES:
Load Chart

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1500\LR 1500 - SDB 72m (236').dwg
CREATED: 02.28.2025 @ 11:20:22 AM
EDITING TIME: 0h24m FILE SIZE: 4469.37Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 02.28.2025 @ 11:20:22 AM
PLOTTED: 02.28.2025 @ 11:20:31 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	02.28.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 011 OF 011

BUCKNER HEAVYLIFT CRANES