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PROJECT:
LR1400 SDWB 70m+91m

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

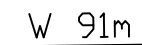
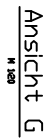
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Title Page

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BUCKNER

Pos.	Artikel	Bezeichnung	Description
1	963497808	STANGE MIT SCHILD	ROD WITH BOARD
2	925173308	LASCHE KPL.	BRACKET COMPL.
3	963493508	STANGE	ROD
4	925173008	LASCHE KPL.	BRACKET COMPL.
9	925184408	SCHWINGE SCHWK.	ROCKER WELDED
16	921344408	STANGE KPL.	ROD CPL.
23	773424508	SEIL	ROPE
25	954383508	BOLZEN	PIN
27	921137508	STANGE KPL.	ROD CPL.
28	954385708	BOLZEN	PIN
29	433105008	SICHERUNGSFEDER	RETAINING SPRING
32	921129608	STANGE KPL.	ROD CPL.
35	948638308	BOLZEN	PIN
36	773386108	SEIL	ROPE
44	948359608	BOLZEN	PIN
51	529001508	AUFSTELLWAGEN	SET-UP CARRIAGE
52	963490108	STANGE MIT SCHILD	ROD WITH BOARD
68	692307908	ZUGMESSLASCHE	TENSION DYNAMOMETER
76	921406808	STANGE KPL.	ROD CPL.
77	921406908	LASCHE KPL.	BRACKET COMPL.
78	921407008	STANGE KPL.	ROD CPL.
79	921407208	STANGE KPL.	ROD CPL.
80	921407308	SCHWINGE SCHWK.	ROCKER WELDED
82	921425408	STANGE MIT SCHILD	ROD WITH BOARD
83	921425508	STANGE KPL.	ROD CPL.
86	923626908	LASCHE SCHWK.	CONNECTING LINK WELDED
87	923627008	LASCHE SCHWK.	CONNECTING LINK WELDED
88	923627108	LASCHE SCHWK.	CONNECTING LINK WELDED
89	773433908	SEIL	ROPE
90	773434008	SEIL	ROPE
91	956097408	BOLZEN	PIN
92	421202408	SCHEIBE	WASHER
93	955998208	BOLZEN	PIN
94	421102808	SCHEIBE	WASHER
95	433102508	SICHERUNGSFEDER	RETAINING SPRING
96	740023808	KETTE	CHAIN
98	921125208	TRAVERSE SCHWK.	CROSS-MEMBER
99	921129208	STANGE KPL.	ROD CPL.
103	970079008	BOLZEN	PIN
104	921137308	STANGE KPL.	ROD CPL.

27.4.2009	LR 1400/2 (074257)	910536008 _ 002
LIEBHERR	STANGEN RODS / PULL RODS	Seite: 12

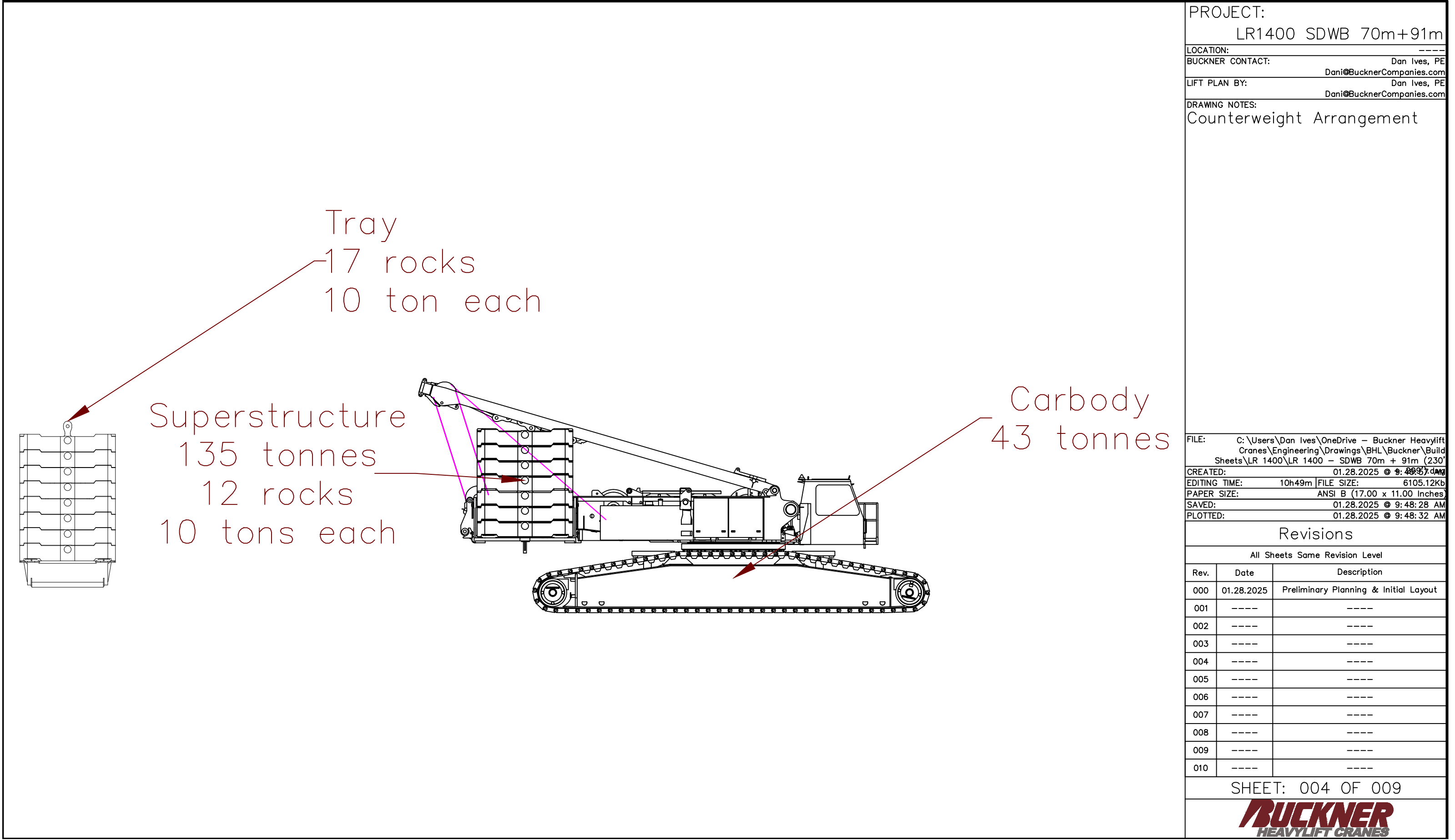
PROJECT:
LR1400 SDWB 70m+91m

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

DRAWING NOTES:
Rod Plan

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PROJECT:
LR1400 SDWB 70m+91m

LOCATION: -----

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

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

DRAWING NOTES:
Counterweight Arrangement

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
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7.3 Load hook and hook block for crane operation with 1 hoist rope winch in single operation
Hoist rope lengths: 2790 ft (850 m)

Crane data		
Rope diameter:	0.0820 ft	[25 mm]
Rope weight:	2.08	[lbs/ft]
Boom sections:	23	[ft]
Boom length min.:	69	[ft]
Boom length max.:	551	[ft]
Number of hoist winches:	1	
Hoist rope length:	2790	[ft]
Derrick to hoist rope deflection:	65.6	[ft]
Min. height above ground:	0.0	[ft]

7.3.1 Load hook 12 E (0 rope pulleys / 26.5 kips (12 t) load)

Number of rope runs	Maximum possible overall jib length [ft] with hook block weight [lbs]			
	1.3 kips			
1	482			

7.3.2 Hook block 36 EM (1 rope pulleys / 79.4 kips (36 t) load)

Number of rope runs	Maximum possible overall jib length [ft] with hook block weight [lbs]			
	3.3 kips			
3	390			
2	551			
1	551			

PROJECT:	LR1400 SDWB 70m+91m
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LOCATION:	----
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BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerHeavyLift.com

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

DRAWING NOTES:
Hook Blocks

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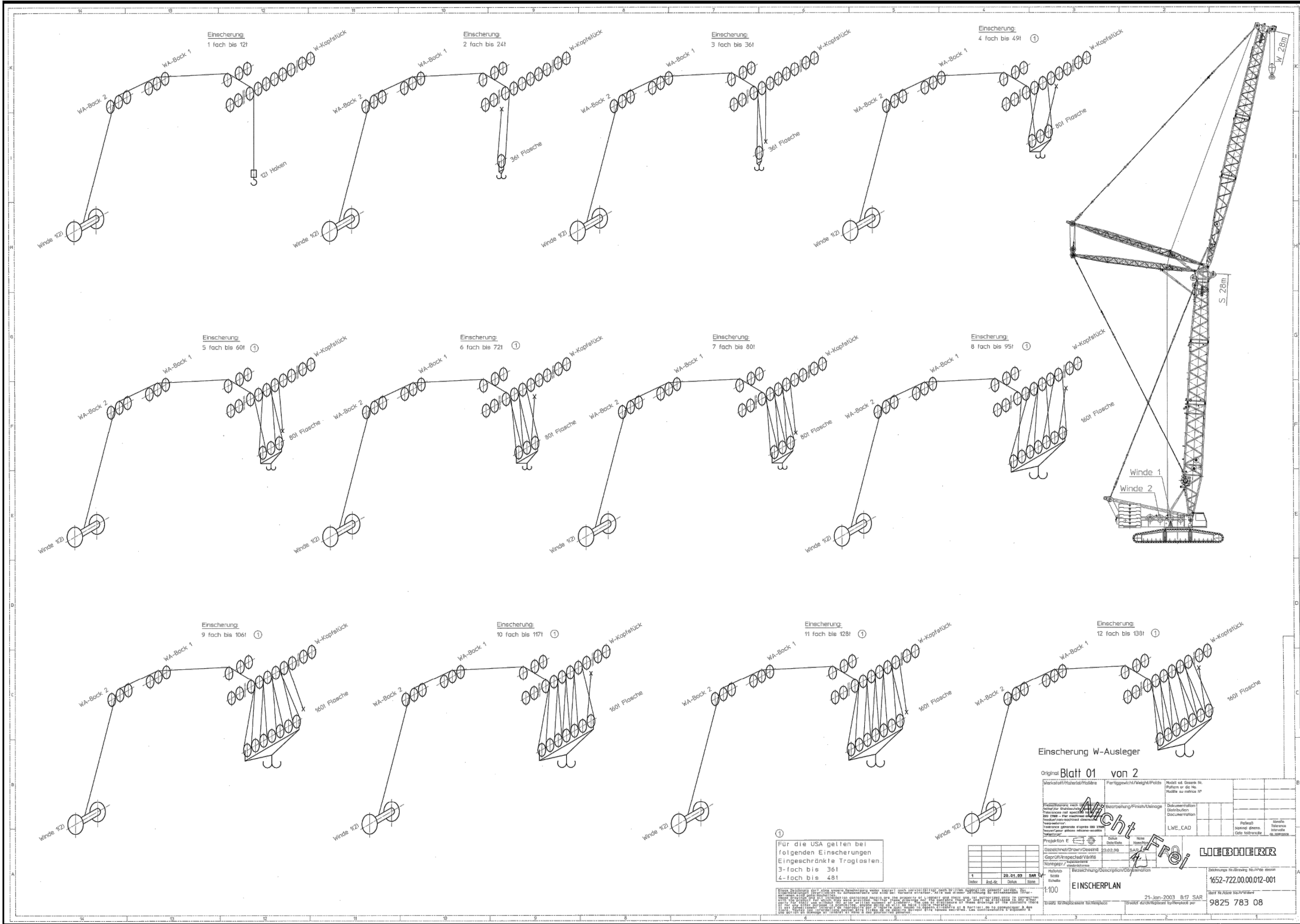
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SHEET: 005 OF 009

BUCKNER



PROJECT:
LR1400 SDWB 70m+91m

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

DRAWING NOTES:
Reeving Plan

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SHEET: 006 OF 009
BUCKNER
HEAVYLIFT CRANES

RAISING - AND LOWERING CHARTS

SDWB / SDWB2 - mode

TAB: 12400022
System: S 2620.20
D 2115.20
W 2116.20
Page 2 of 3

Note: raising, lowering 360°
Supporting base 7,80 m×7,50 m×1,20 m, **without** additional supports
Derrickboom D = 28 m; R = 11 m
Derrickballast R = 11 m

Operating mode	Slewing platform- / central ballast	Derrick- ballast	Boom combination	max. permissible hook block weight on W- boom
	[t] / [t]	[t]	(m)	[t]
SDWB	135 / 43	60	S 56 / W 28	6,0
		50	W 35	6,0
		30	W 42	6,0 *
		40	W 49	8,0 *
		40	W 56	8,0 *
		50	W 63	8,0 *
		50	W 70	8,0 *
		60	W 77	8,0 *
		60	W 84	8,0 *
		70	W 91	6,0 *
		100	S 63 / W 28	6,0
		100	W 35	6,0
		90	W 42	6,0
		80	W 49	8,0 *
		80	W 56	8,0 *
		90	W 63	8,0 *
		90	W 70	8,0 *
		100	W 77	8,0 *
		100	W 84	8,0 *
		110	W 91	6,0 *
		150	S 70 / W 28	6,0
		150	W 35	6,0
		140	W 42	6,0
		120	W 49	6,0
		120	W 56	8,0 *
		130	W 63	8,0 *
		140	W 70	8,0 *
		140	W 77	8,0 *
		150	W 84	8,0 *
		150	W 91	6,0 *

* = Bei geringerem Gewicht der Hakenflasche kann der Schwebeballast nicht reduziert werden.

RAISING - AND LOWERING CHARTS

SDWB- mode

TAB: 12400023
System: S 2620.20
D 2115.20
W 2116.20
Page 2 of 3

Note: raising, lowering 360°
Supporting base 7,80 m×7,50 m×1,20 m, **without** additional supports
Derrickboom D = 28 m; R = 11 m
Derrickballast R = 13 m

Operating mode	Slewing platform- / central ballast	Derrick- ballast	Boom combination	max. permissible hook block weight on W-boom
	[t] / [t]	[t]	(m)	[t]
SDWB	135 / 43	50	S 56 / W 28	6,0
		40	W 35	6,0
		30	W 42	8,0 *
		30	W 49	8,0 *
		40	W 56	8,0 *
		40	W 63	8,0 *
		50	W 70	8,0 *
		50	W 77	8,0 *
		50	W 84	8,0 *
		60	W 91	6,0 *
		90	S 63 / W 28	6,0
		80	W 35	6,0
		70	W 42	6,0
		70	W 49	8,0 *
		70	W 56	8,0 *
		80	W 63	8,0 *
		80	W 70	8,0 *
		80	W 77	8,0 *
		80	W 84	8,0 *
		90	W 91	6,0 *
		130	S 70 / W 28	6,0
		130	W 35	6,0
		120	W 42	6,0
		110	W 49	6,0
		110	W 56	8,0 *
		110	W 63	8,0 *
		120	W 70	8,0 *
		120	W 77	8,0 *
		130	W 84	8,0 *
		130	W 91	6,0 *

* = Bei geringerem Gewicht der Hakenflasche kann der Schwebeballast nicht reduziert werden.

PROJECT:
LR1400 SDWB 70m+91m

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

DRAWING NOTES:
Erection and Takedown 1

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RAISING - AND LOWERING CHARTS

SDWB- mode

TAB: 12400024
System: S 2620.20
D 2115.20
W 2116.20
Page 2 of 3

Note: raising, lowering 360°
Supporting base 7,80 m×7,50 m×1,20 m, **without** additional supports
Derrickboom D = 28 m; R = 11 m
Derrickballast R = 15 m

Operating mode	Slewing platform- / central ballast	Derrick-ballast	Boom combination	max. permissible hook block weight on W-boom
	[t] / [t]	[t]	(m)	[t]
SDWB	135 / 43	40	S 56 / W 28	6,0
		40	W 35	6,0
		30	W 42	8,0 *
		30	W 49	8,0 *
		30	W 56	8,0 *
		40	W 63	8,0 *
		40	W 70	8,0 *
		40	W 77	8,0 *
		50	W 84	8,0 *
		50	W 91	6,0 *
		80	S 63 / W 28	6,0
		70	W 35	6,0
		70	W 42	6,0
		60	W 49	8,0 *
		60	W 56	8,0 *
		70	W 63	8,0 *
		70	W 70	8,0 *
		70	W 77	8,0 *
		80	W 84	8,0 *
		80	W 91	6,0 *
		120	S 70 / W 28	6,0
		110	W 35	6,0
		110	W 42	6,0
		90	W 49	6,0
		90	W 56	8,0 *
		100	W 63	8,0 *
		100	W 70	8,0 *
		110	W 77	8,0 *
		110	W 84	8,0 *
		120	W 91	6,0 *

* = If the weight of the hook block is less, the Derrick ballast cannot be reduced.

PROJECT:
LR1400 SDWB 70m+91m

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

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Erection and Takedown 2

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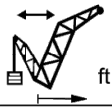


ISO DIN

xx° SDB	W 3)
230/92ft	299 ft

074265

06.01

				ft > < lbs		CODE > 1109 <					L124 2744 .x(x)	
ft		233	233	233	233	233	233	233	233	233		
100		38,300	38,300	38,300								
	105	37,700	37,700	37,700								
110		37,100	37,100	37,100								
	115	36,500	36,500	36,500								
120		36,000	36,000	36,000								
	125	35,400	35,400	35,400								
130		35,000	35,000	35,000								
	135	34,500	34,500	34,500								
140		34,000	34,000	34,000								
	150	33,200	33,200	33,200								
160		32,300	32,300	32,300								
	170	31,500	31,500	31,500								
180		30,600	30,600	30,600								
	190	29,600	29,600	29,600								
200		28,500	28,500	28,500	36,400	36,400	36,400					
	210	27,400	27,400	27,400	36,400	36,400	36,400					
220		26,300	26,300	26,300	36,400	36,400	36,400					
	230	25,400	25,400	25,400	36,400	36,400	36,400					
240		24,500	24,500	24,500	36,300	36,300	36,300					
	250	23,300	23,300	23,300	36,000	36,000	36,000					
260		22,000	22,000	22,000	35,700	35,700	35,700					
	270	20,800	20,800	20,800	35,500	35,500	35,500					
280		19,700	19,700	19,700	35,300	35,300	35,300	28,100	28,100	28,100		
	290	18,500	18,500	18,500	35,000	35,000	35,000	28,100	28,100	28,100		
300		17,400	17,400	17,400	34,600	34,600	34,600	28,100	28,100	28,100		
	310				33,900	33,900	33,900	28,100	28,100	28,100		
320					33,200	33,200	33,200	28,100	28,100	28,100		
	330				32,700	32,700	32,700	28,100	28,100	28,100		
340					32,700	32,700	32,700	28,100	28,100	28,100		
	350							28,100	28,100	28,100		
360								27,100	28,100	28,100		
	370							25,400	28,100	28,100		
380								23,700	28,100	28,100		
	390							22,000	28,100	28,100		
* n *		2	2	2	2	2	2	2	2	2		
xx		87.0	87.0	87.0	77.0	77.0	77.0	67.0	67.0	67.0		
	yy	36.1	42.6	49.2	36.1	42.6	49.2	36.1	42.6	49.2		
		ft /s	30	30	30	30	30	30	30	30		
***			119	120	121	135	136	137	141	142	143	

	xx° SDB	W 3)					
	230/92ft	299 ft	lbs	95,000	yy		
				298,000			
				lbs			

PROJECT:
LR1400 SDWB 70m+91m

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

DRAWING NOTES:
Load Chart

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