

# BUCKNER

## HEAVYLIFT CRANES

### Build Package – Liebherr LR 1400/2– CR4402

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002	Build Sheet
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009	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.

PROJECT:  
LR 1400 42m + 49m (138' + 161')

LOCATION: Washington, DC

BUCKNER CONTACT: Andy Moore  
AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Title Page

LR 1400/2	
Operating Mode	SLN
Main Boom Length	42m (138')
Luffing Jib Length	49m (161')
Derrick Length	N/A
Superstructure CWT	155t (342k)
Carbody CWT	43t (95k)
Ballast Tray CWT	N/A

**PRELIMINARY**

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**BUCKNER**  
HEAVYLIFT CRANES

PROJECT:  
 LR 1400 42m + 49m (138' + 161')

LOCATION: Washington, DC

BUCKNER CONTACT: Andy Moore  
 AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore  
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DRAWING NOTES:  
 Build Sheet

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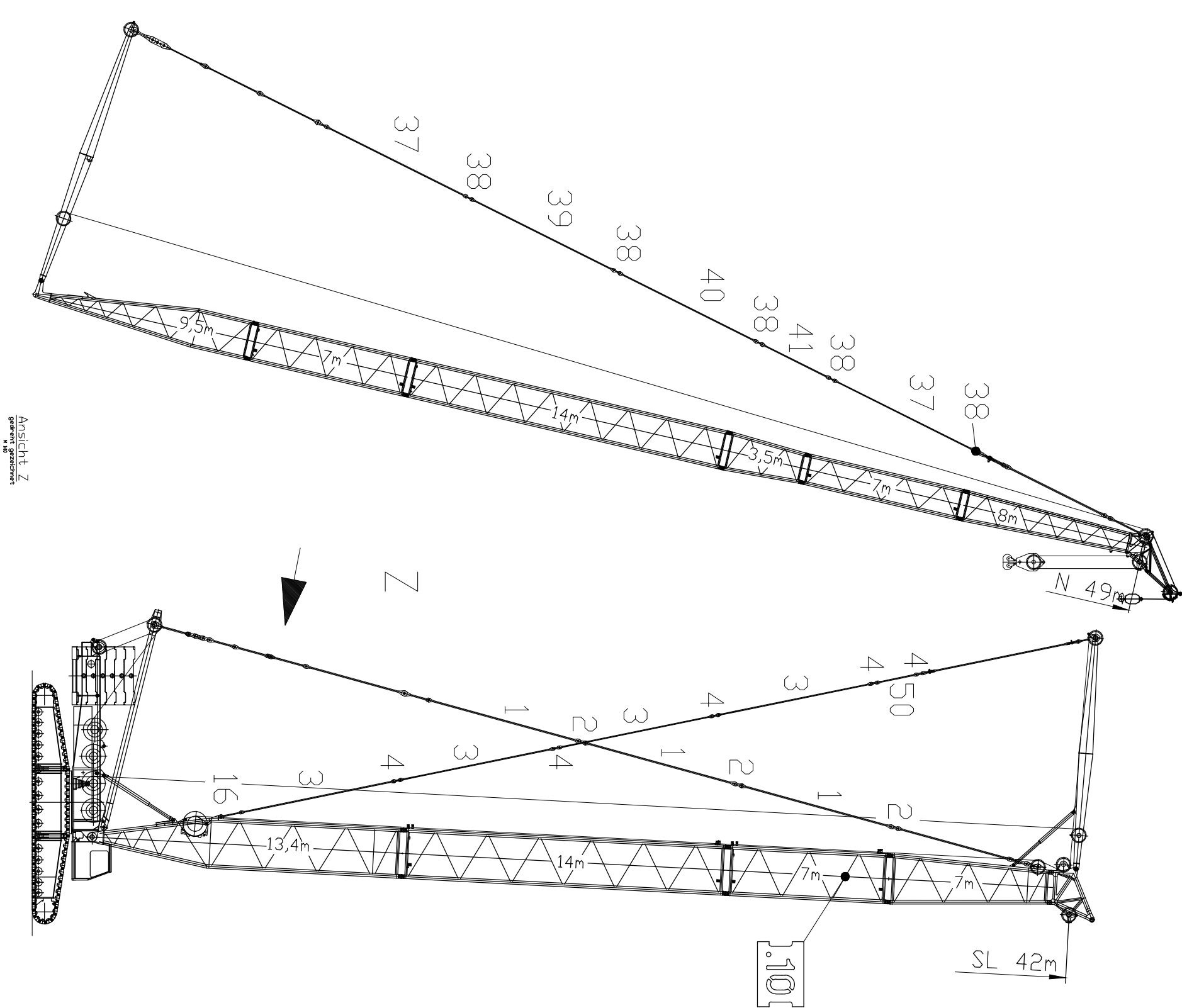
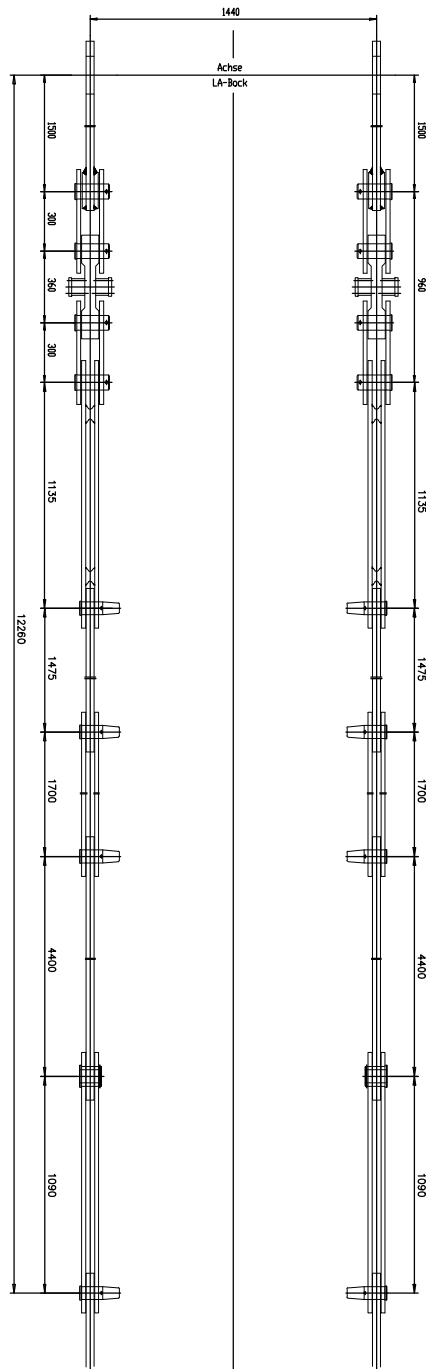
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Ansicht Z  
 Gesamtansicht

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
<b>LIEBHERR</b>	STANGEN RODS / PULL RODS	Seite: 12

Pos.	Item	Quantity	Description	Bezeichnung	Serie	K
1	96 34 978 08	30	ROD WITH BOARD	STANGE MIT SCHILD		
(1)	95 43 721 08	1	ROD 40X6896X174	STANGE		
(2)	97 35 676 08	1	PLATE IDENTIFICATION NUMBER IDENT-NR	SCHILD IDENTNR.		
2	92 51 733 08	38	BRACKET COMPL. 0.320M	LASCHE KPL.		
3	96 34 935 08	2	ROD	STANGE		
(1)	95 43 738 08	1	ROD 35X6886X139	STANGE		
(2)	97 35 676 08	1	PLATE IDENTIFICATION NUMBER IDENT-NR	SCHILD IDENTNR.		
4	92 51 730 08	4	BRACKET COMPL. 0.295M	LASCHE KPL.		
16	92 13 444 08	2	ROD CPL. 0.900M	STANGE KPL.		
25	95 43 835 08	82	PIN RD65X190 35NI	BOLZEN		
27	92 11 375 08	1	ROD CPL.	STANGE KPL.		
28	95 43 857 08	10	PIN RD55X170 35NI	BOLZEN		
29	43 31 050 08	101	RETAINING SPRING 6 A3C	SICHERUNGSFEDER		
32	92 11 296 08	1	ROD CPL.	STANGE KPL.		
			→ 3 560 101 92 11 296 08			
37	96 28 317 08	2	ROD CPL. 6.705M	STANGE KPL.		
			→ 3 655 306 96 28 317 08			
38	96 28 318 08	4	BRACKET COMPL. 0.295M	LASCHE KPL.		
			→ 3 655 308 96 28 318 08			
39	96 28 319 08	1	ROD CPL. 6.850M	STANGE KPL.		
			→ 3 655 307 96 28 319 08			
40	96 28 320 08	1	ROD CPL. 6.560M	STANGE KPL.		
			→ 3 655 305 96 28 320 08			
44	94 83 596 08	10	PIN RD54X235 35NICRMOV125	BOLZEN		
52	96 34 901 08	4	ROD WITH BOARD	STANGE MIT SCHILD		
(1)	95 46 778 08	1	ROD 40X3391X174	STANGE		
(2)	97 35 676 08	1	PLATE IDENTIFICATION NUMBER IDENT-NR	SCHILD IDENTNR.		
82	92 14 254 08	2	ROD WITH BOARD 1.380M	STANGE MIT SCHILD		
83	92 14 255 08	2	ROD CPL. 0.530M	STANGE KPL.		
98	92 11 252 08	1	CROSS-MEMBER	TRAVERSE SCHWK.		
103	97 00 790 08	1	PIN 85x310	BOLZEN		
104	92 11 373 08	2	ROD CPL.	STANGE KPL.		
105	96 30 043 08	2	ROD CPL. 6.08M	STANGE KPL.		
			→ 3 560 103 96 30 043 08			
106	43 30 103 08	2	SPLIT PIN DIN 94 10X80 ST VERZ.	SPLINT		
107	96 37 435 08	2	ROD WITH BOARD 5.805M	STANGE MIT SCHILD		
108	96 37 440 08	2	ROD CPL. 1.675M	STANGE KPL.		

12.3.2008	etk_en_de_074340 LR 1400/2	400 (4/4)
<b>LIEBHERR</b>	RODS / PULL RODS STANGEN	→ 3 561 91 52 552 08

Untitled (26).max

PROJECT:  
LR 1400 42m + 49m (138' + 161')

LOCATION: Washington, DC  
BUCKNER CONTACT: Andy Moore  
AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Rod Plan

LR 1400/2	
Operating Mode	SLN
Main Boom Length	42m (138')
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Derrick Length	N/A
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Carbody CWT	43t (95k)
Ballast Tray CWT	N/A



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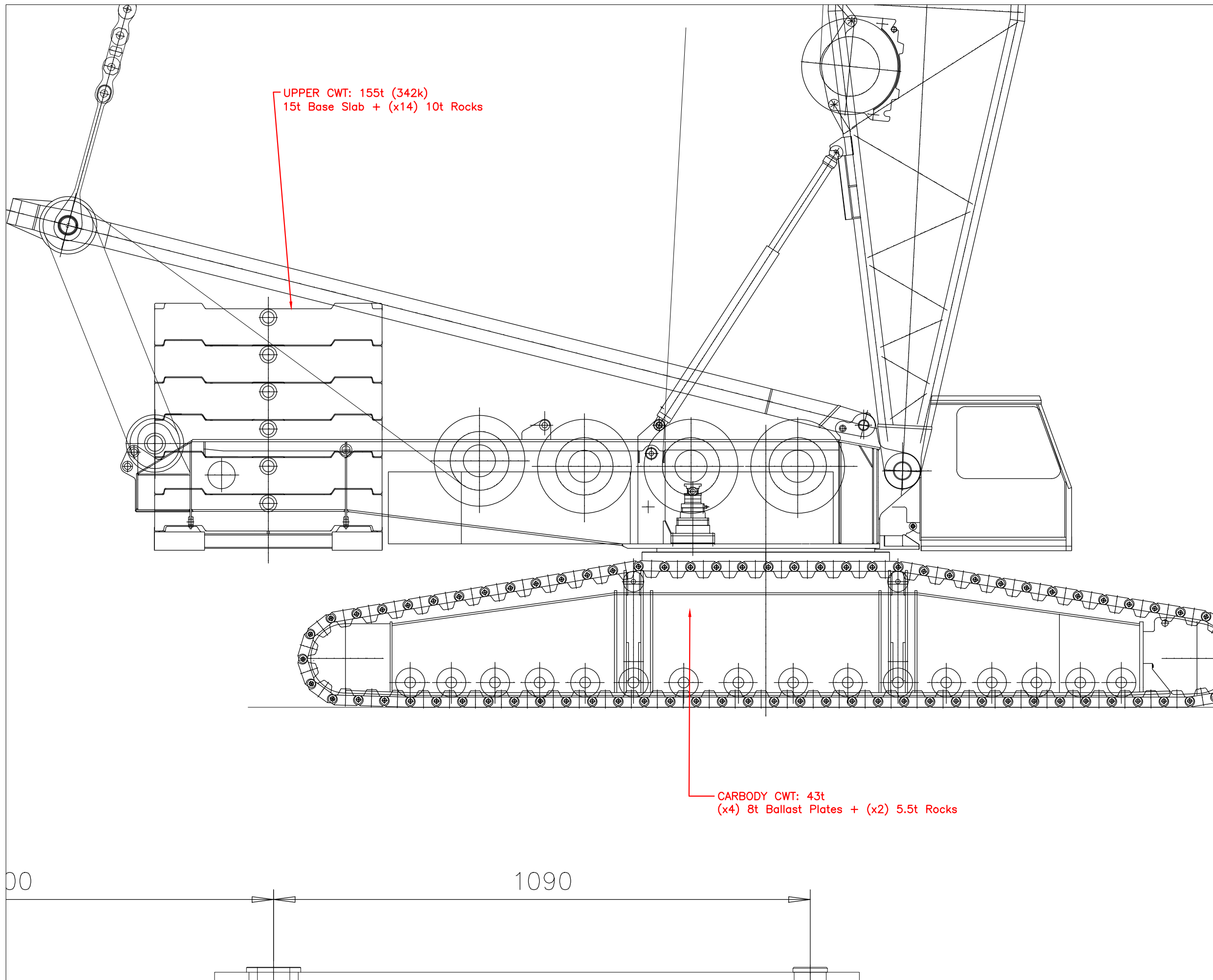
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SHEET: 003 OF 009





PROJECT:  
 LR 1400 42m + 49m (138' + 161')

LOCATION: Washington, DC

BUCKNER CONTACT: Andy Moore  
 AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore  
 AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
 CWT Arrangement

LR 1400/2	
Operating Mode	SLN
Main Boom Length	42m (138')
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Derrick Length	N/A
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Ballast Tray CWT	N/A

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Aux. Hook Block (Winch 2)	
Hook Block 12EM (0 Sheave) 25mmØ	
Parts of Line	1
Reeving Cap. (EN 13000)	27 800 lb
Block Wt.	1 300 lb

**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			

**1 Distance between the hook and roller set in the boom head**

To determine the hook height, the lifting height must be reduced by the distance between the hook and the center of the roller set in the boom head.

The distances for the hook block used can be taken from the following charts.

Hook block	Distance H Valid for the end section
Load hook 12 E	10.5 ft
Hook block 36 EM	13.1 ft
Hook block 80 DM	13.8 ft
Hook block 160 DM	14.8 ft
Double hook block 250 / 125 DM	15.1 ft
Double hook block 400 / 200 DMZ	17.4 ft

Main Hook Block (Winch 1)	
Hook Block 80DM (3 sheave) 25mmØ	
Parts of Line	4
Reeving Cap. (EN 13000)	108 300 lb
Block Wt.	5 700 lb

**7.3.3 Hook block 80 DM (3 rope pulleys / 176.4 kips (80 t) load)**

Number of rope runs	Maximum possible overall jib length [ft] with hook block weight [lbs]			
	5.7 kips			
7	253			
6	299			
5	390			
4	482			

Number of rope runs	Maximum possible overall jib length [ft] with hook block weight [lbs]
1x	27.8
2x	54.9
3x	81.8
4x	108.3
5x	134.3
6x	159.8
7x	185.2
8x	210.1
9x	234.6
10x	258.8
11x	282.6
12x	306.0
13x	329.2
14x	351.9
15x	374.1
16x	396.2
17x	418.0
18x	439.4
19x	460.6
20x	481.3
21x	501.6
22x	521.9
23x	541.7
24x	561.3
25x	580.5
26x	599.5
27x	618.2
28x	636.5
29x	654.6
30x	672.4
31x	690.1
32x	707.5
33x	726.0
34x	741.2
35x	757.8
36x	771.6

PROJECT:  
LR 1400 42m + 49m (138' + 161')

LOCATION: Washington, DC

BUCKNER CONTACT: Andy Moore  
AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore  
AndyM@BucknerHeavyLift.com

DRAWING NOTES:  
Hookblock

LR 1400/2	
Operating Mode	SLN
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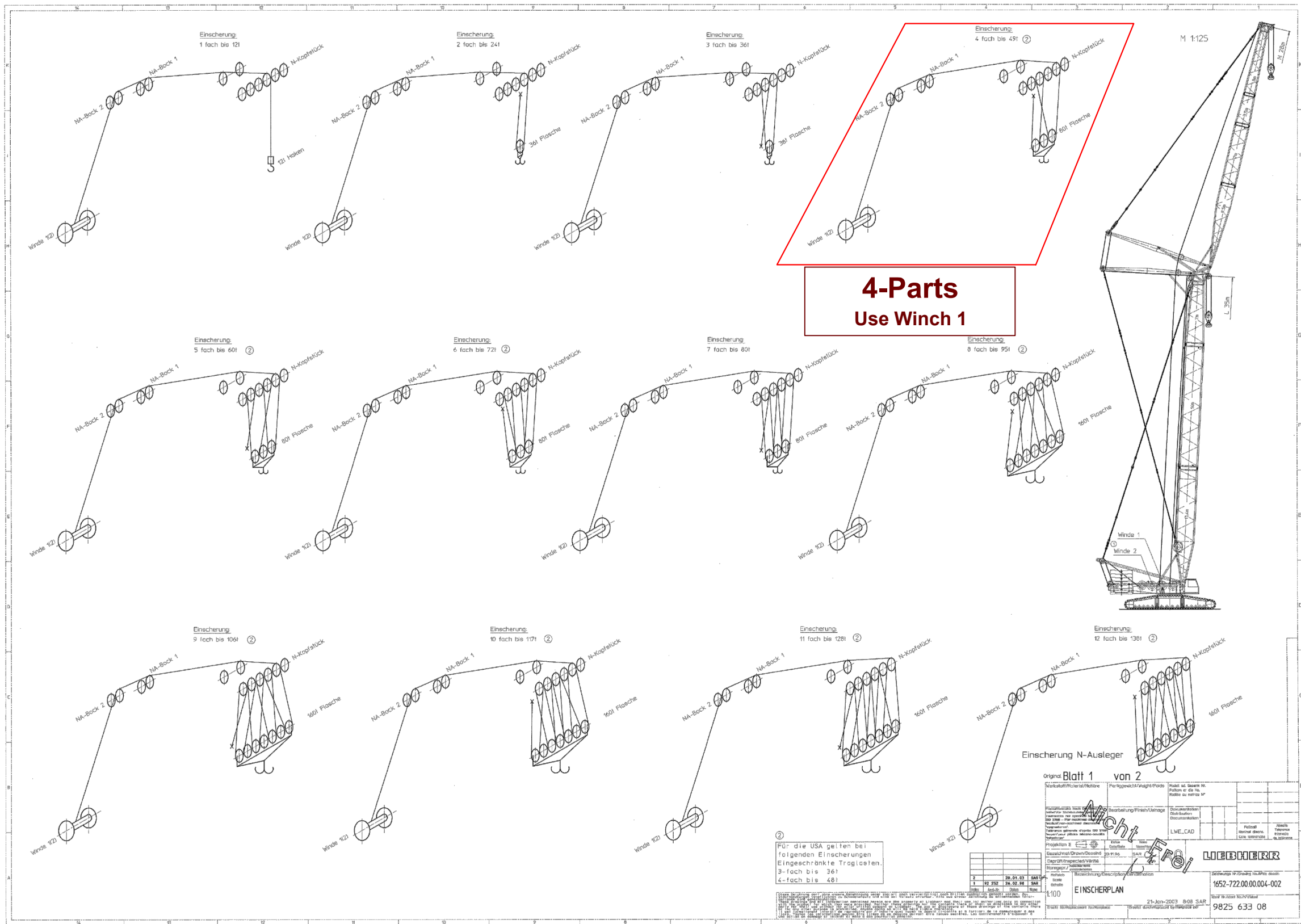
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**4-Parts  
Use Winch 1**

PROJECT:  
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LOCATION: Washington, DC

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AndyM@BucknerHeavyLift.com

LIFT PLAN BY: Andy Moore  
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DRAWING NOTES:  
Main Reeving

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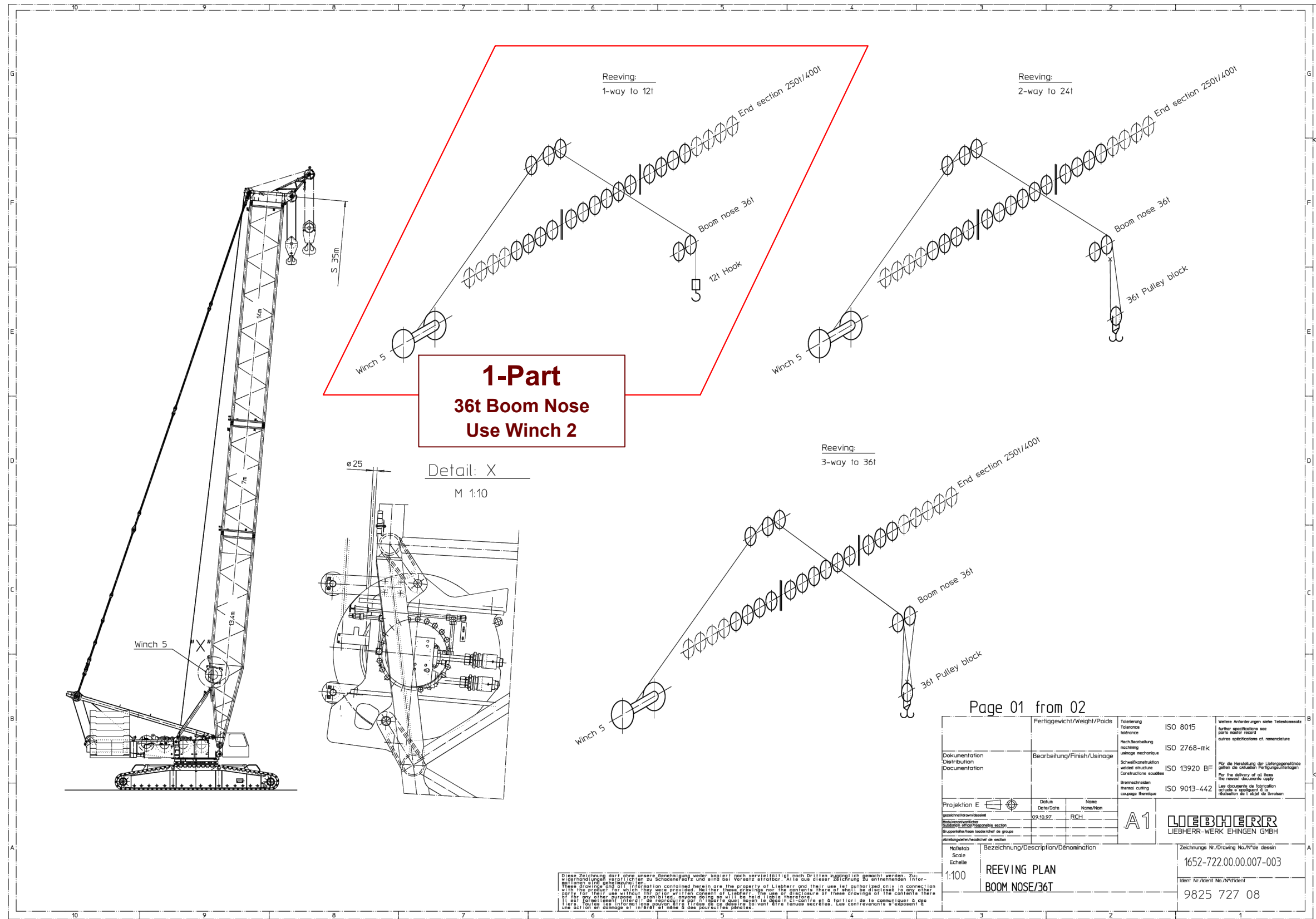
Wichtiger Hinweis: Für die USA gelten bei folgenden Einsicherungen: 3-fach bis 36t, 4-fach bis 48t.

Scale: 1:100

21-Jan-2003 8:08 SAR

1652-722.00.004-002

9825 633 08



**1-Part  
36t Boom Nose  
Use Winch 2**

Detail: X  
M 1:10

Page 01 from 02

Dokumentation Distribution Documentation	Bearbeitung/Finish/Usinage	Fertiggewicht/Weight/Poids	Toleranz Tolerance	ISO 8015	Weitere Anforderungen siehe Teilespezifikation Further specifications see parts master record autres spécifications et nomenclature
			Mech. Bearbeitung machining	ISO 2768-mk	
			Schweißkonstruktion welded structure	ISO 13920 BF	Für die Herstellung der Liefergegenstände gelten die aktuellen Fertigungsunterlagen for the delivery of all items the newest documents apply
			Brennschneiden thermal cutting	ISO 9013-442	Les documents de fabrication actualisés à disposition de la fabrication de l'objet de livraison
Projektion E	Datum Date/Date	Name Name/Nom	 <b>LIEBHERR</b> LIEBHERR-WERK EHINGEN GMBH		
Zeichnungsautorität Drawing authority/authorité section	09.10.97	RCH			
Gezeichnet/Drawn Dessiné					
Gezeichnet/Drawn Dessiné					
Maßstab Scale Echelle	Bezeichnung/Description/Dénomination		Zeichnungs Nr./Drawing No./N° de dessin		
1:100	REEVING PLAN BOOM NOSE/36T		1652-722.00.00.007-003		
			Ident. Nr./Ident. No./N° d'ident.		
			9825 727 08		

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DRAWING NOTES:  
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SHEET: 007 OF 009



**RAISING - AND LOWERING CHARTS**

**SLN - mode**

TAB: 12400081  
 System: S 2620.20  
 N 2115.10  
 1812.10

**Note:** The SL- boom must be set to 87° to the horizontal before luffing up the N- fly jib

Slewing platform- / central ballast	Erection of boom, sideways / over rear		max. permissible hook block weight on main boom
	Additional mechanical support not required [m]	Additional mechanical support required [m]	
[t]			[t]
155 / 43	SL 21 / N 21 - 91		3,8
	SL 28 / N 21 - 91		3,8
	SL 35 / N 21 - 91		3,8
	SL 42 / N 21 - 91		3,8
	SL 49 / N 21 - 91		3,8
	SL 56 / N 21 - 91		3,8
	SL 63 / N 21 - 63		2,6
135 / 43		SL 63 / N 21 - 84	3,8
		SL 63 / N 91	2,6
		SL 70 / N 28 - 77	3,8
	SL 21 / N 21 - 91		3,8
	SL 28 / N 21 - 91		3,8
	SL 35 / N 21 - 91		3,8
	SL 42 / N 21 - 91		3,8
SL 49 / N 21 - 91		3,8	
SL 56 / N 21 - 91		3,8	
	SL 63 / N 21 - 84		3,8
	SL 63 / N 91		2,6
	SL 70 / N 28 - 77		2,6

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DRAWING NOTES:  
 Erection & Take Down

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001	----	----
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ISO DIN

xx° SL	N
138 ft	161 ft

0015073

06.03

		ft >< lbs		CODE > 1354 <		L124 0E14 .x(x)	
	ft	141	141	141			
70	128,000						
75	126,000						
80	125,000						
85	123,000						
90	121,000						
95	117,000						
100	112,000						
105	107,000						
110	102,000						
115	97,500	86,500					
120	93,500	83,000					
125	89,500	79,000					
130	85,000	76,000					
135	81,500	72,500					
140	77,500	69,500					
150	71,000	63,500					
160		58,400					
170		53,800					
180		50,100	43,500				
190		46,700	40,400				
200			37,600				
210			35,100				
220			33,100				
* n *	5	4	2				
xx	87.0	77.0	67.0				
	ft / s	30	30	30			
***		154	156	158			

	xx° SL	N		95,000		342,000		lbs		lbs
	138 ft	161 ft								

II - 460

PROJECT:  
LR 1400 42m + 49m (138' + 161')

LOCATION: Washington, DC

BUCKNER CONTACT: Andy Moore  
AndyM@BucknerHeavylift.com

LIFT PLAN BY: Andy Moore  
AndyM@BucknerHeavylift.com

DRAWING NOTES:  
Load Charts

LR 1400/2	
Operating Mode	SLN
Main Boom Length	42m (138')
Luffing Jib Length	49m (161')
Derrick Length	N/A
Superstructure CWT	155t (342k)
Carbody CWT	43t (95k)
Ballast Tray CWT	N/A

**PRELIMINARY**

FILE: D:\Andy Moore\OneDrive - Buckner Heavylift Cranes\Documents - Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1400\LR 1400 - SLN 42m + 49m (138' + 161') 155t + 43t.dwg

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Revisions		
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