

467'-0" Railroad Bridge Weight Calculation Spreadsheet									
Qty.	Part No	KG	Lbs	Span	Size	Length			
1	FS1A	4,458	9,828#	1	36x280	32'-3"			
1	FS2A	4,446	9,802#	1	36x280	32'-3"			
1	FS3A	4,452	9,815#	1	36x280	32'-4"	Grand Total all weights		
1	FS4A	4,475	9,866#	1	36x280	32'-4"	Kg	Lbs	Tons
1	FS5B	8,279	18,252#	2	36x393	43'-11"	615,228	1,356,332#	678.2
1	FS6B	8,265	18,221#	2	36x393	44'-0"	<i>not including nuts, Bolts, washers</i>		
1	FS7B	8,269	18,230#	2	36x393	44'-0"	<i>& anchor bolt assemblies.</i>		
1	FS8B	8,291	18,278#	2	36x393	44'-0"	<i>All weights taken from fab drawings</i>		
1	FG9C	9,196	20,274#	3	50.75x395	47'-7"			
1	FG10C	9,285	20,470#	3	50.75x395	47'-7"			
1	FG11C	9,285	20,470#	3	50.75x395	47'-7"			
1	FG12C	9,196	20,274#	3	50.75x395	47'-7"			
1	FG13D	9,518	20,983#	4	50.75x395	49'-8"			
1	FG14D	9,616	21,199#	4	50.75x395	49'-8"			
1	FG15D	8,845	19,500#	4	50.75x395	45'-6"			
1	FG16D	8,744	19,277#	4	50.75x395	45'-6"			
1	FG17E	11,062	24,387#	5	50.75x395	57'-10"			
1	FG18E	11,256	24,815#	5	50.75x395	57'-10"			
1	FG19E	11,256	24,815#	5	50.75x395	57'-10"			
1	FG20E	11,081	24,429#	5	50.75x395	57'-10"			
1	FG21F	11,060	24,383#	6	50.75x395	57'-10"			
1	FG22F	11,230	24,758#	6	50.75x395	57'-10"			
1	FG237	11,232	24,762#	6	50.75x395	57'-10"			
1	FG24F	11,055	24,372#	6	50.75x395	57'-10"			
1	FG25G	11,054	24,370#	7	50.75x395	57'-10"			
1	FG26G	11,170	24,625#	7	50.75x395	57'-8"			
1	FG27G	11,880	26,191#	7	50.75x395	61'-1"			
1	FG28G	11,730	25,860#	7	50.75x395	61'-4"			
1	FG29H	8,315	18,331#	8	36x393	44'-2"			
1	FG30H	8,278	18,250#	8	36x393	44'-0"			
1	FG31H	8,261	18,212#	8	36x393	43'-11"			

Qty.	Part No	KG	Lbs	Span	Size	Length			
1	FG32H	8,258	18,206#	8	36x393	43'-10"			
1	FG33I	8,318	18,338#	9	36x393	44'-1"			
1	FG34I	8,296	18,289#	9	36x393	44'-0"			
1	FG35I	8,260	18,210#	9	36x393	43'-11"			
1	FG36I	8,258	18,206#	9	36x393	43'-10"			
1	FG37J	4,483	9,883#	10	36x280	32'-5"			
1	FG38J	4,453	9,817#	10	36x280	32'-4"			
1	FG39J	4,444	9,797#	10	36x280	32'-3"			
1	FG40J	4,450	9,810#	10	36x280	32'-2"			
totals for girder:		343,760	757,853#						
40									
Qty.	Part No	KG each	Lbs each	KG total	Lbs total				
10	FPD1	892	1,967	8,920	19,665				
15	FPD2	970	2,138	14,550	32,077				
2	FPD3	892	1,967	1,784	3,933				
3	FPD4	970	2,138	2,910	6,415				
6	FPD5	925	2,039	5,550	12,236				
6	FPD6	925	2,039	5,550	12,236				
6	FPD7	1,003	2,211	6,018	13,267				
9	FPD8	1,429	3,150	12,861	28,353				
1	FPD9	1,429	3,150	1,429	3,150				
2	FPD10	1,861	4,103	3,722	8,206				
12	FPD11	573	1,263	6,876	15,159				
16	D1	71	157	1,136	2,504				
30	D2	70	154	2,100	4,630				
8	D3	71	157	568	1,252				
15	D4	70	154	1,050	2,315				
55	D5	79	174	4,345	9,579				
32	D6	79	174	2,528	5,573				
3	D7	189	417	567	1,250				
1	D8	188	414	188	414				
1	D9	187	412	187	412				
1	D10	179	395	179	395				
33	LB1	15	33	495	1,091				
8	LB2	14	31	112	247				

Qty.	Part No	KG each	Lbs each	KG total	Lbs total				
6	LB3	15	33	90	198				
1	LB4	15	33	15	33				
3	LB5	15	33	45	99				
68	LB6	15	33	1,020	2,249				
18	LB7	14	31	252	556				
2	LB8	16	35	32	71				
24	LB9	16	35	384	847				
8	LB10	14	31	112	247				
2	LB11	16	35	32	71				
2	LB12	17	37	34	75				
70	LB13	17	37	1,190	2,623				
24	LB14	16	35	384	847				
2	LB15	15	33	30	66				
9	LB16	16	35	144	317				
2	LB17	21	46	42	93				
1	LB18	16	35	16	35				
1	LB19	16	35	16	35				
15	LB20	16	35	240	529				
6	LB21	15	33	90	198				
1	LB22	21	46	21	46				
1	LB23	16	35	16	35				
5	LB24	16	35	80	176				
1	LB25	16	35	16	35				
1	LB26	21	46	21	46				
1	LB27	21	46	21	46				
1	LB28	20	44	20	44				
1	LB29	15	33	15	33				
1	LB30	16	35	16	35				
2	LB31	16	35	32	71				
2	LB32	15	33	30	66				
1	LB33	15	33	15	33				
1	LB34	16	35	16	35				
1	LB35	15	33	15	33				
1	LB36	16	35	16	35				
8	EB1	27	60	216	476				

Bent#	Qty	Columns	Height	Weight	Mark	Total Wt	Height MM	Wt KG each	Total Wt Kg
4	2	HP12x74	22.8'	7,158#	B4A	14,317#	6,960	3,247	6,494
4	2	HP12x74	22.8'	7,158#	B4B	14,317#	6,960	3,247	6,494
4	1	HP12x74	22.8'	7,379#	B4C	7,379#	6,960	3,347	3,347
	5					36,012#		9,841	16,335
Bent#	Qty	Columns	Height	Weight	Mark	Total Wt	Height MM	Wt KG each	Total Wt Kg
5	2	HP12x74	19.9'	7,158#	B5A	14,317#	6,060	3,247	6,494
5	2	HP12x74	19.9'	7,158#	B5B	14,317#	6,060	3,247	6,494
5	1	HP12x74	19.9'	7,158#	B5C	7,158#	6,060	3,247	3,247
	5					35,792#		9,741	16,235
Bent#	Qty	Columns	Height	Weight	Mark	Total Wt	Height MM	Wt KG each	Total Wt Kg
6	2	HP12x74	12.7'	4,813#	B6A	9,625#	3,860	2,183	4,366
6	2	HP12x74	12.7'	4,813#	B6B	9,625#	3,860	2,183	4,366
6	1	HP12x74	12.7'	4,813#	B6C	4,813#	3,860	2,183	2,183
	5					24,063#		6,549	10,915
Bent#	Qty	Columns	Height	Weight	Mark	Total Wt	Height MM	Wt KG each	Total Wt Kg
7	2	HP12x74	22.8'	8,333#	B7A	16,667#	6,960	3,780	7,560
7	2	HP12x74	22.8'	8,333#	B7B	16,667#	6,960	3,780	7,560
7	1	HP12x74	22.8'	8,333#	B7C	8,333#	6,960	3,780	3,780
	5					41,667#		11,340	18,900
Bent#	Qty	Columns	Height	Weight	Mark	Total Wt	Height MM	Wt KG each	Total Wt Kg
8	2	HP12x74	24.1'	8,613#	B8A	17,227#	7,360	3,907	7,814
8	2	HP12x74	24.1'	8,613#	B8B	17,227#	7,360	3,907	7,814
8	1	HP12x74	24.1'	8,834#	B8C	8,834#	7,360	4,007	4,007
	5					43,287#		11,821	19,635

Bent#	Qty	Columns	Height	Weight	Mark	Total Wt	Height MM	Wt KG each	Total Wt Kg
9	2	HP12x74	15.9'	6,272#	B9A	12,544#	4,860	2,845	5,690
9	2	HP12x74	15.9'	6,272#	B9B	12,544#	4,860	2,845	5,690
9	1	HP12x74	15.9'	6,272#	B9C	6,272#	4,860	2,845	2,845
	5					31,360#		8,535	14,225
Bent#	Qty	Columns	Height	Weight	Mark	Total Wt	Height MM	Wt KG each	Total Wt Kg
10	2	HP12x74	10.0'	4,123#	B10A	8,245#	3,060	1,870	3,740
10	2	HP12x74	10.0'	4,123#	B10B	8,245#	3,060	1,870	3,740
10	1	HP12x74	10.0'	4,123#	B10C	4,123#	3,060	1,870	1,870
	5					20,613#		5,610	9,350
Cap Beams									Total Wt Kg
	10	W14x211	21.7'	4,982#	FCB1	49,824#	6,600	2,260	22,600
	4	W14x211	21.7'	5,183#	FCB2	20,732#	6,600	2,351	9,404
	2	W14x211	21.7'	5,020#	FCB3	10,040#	6,600	2,277	4,554
						80,596#		6,888	36,558