

RAMPS A & B

SPAN	GIRDER	SOUTH END DATA			NORTH END DATA			GIRDER DIMENSIONS						WEB PLATE	FLANGE PLATES						CAMBER	SHEAR CONNECTOR SPACINGS				INTERIOR WEB STIFFENER SPACINGS			GIRDER				
		S	ELEVATION		ANGLE α	N	ELEVATION		ANGLE β	LENGTH % BRGS.	A	B	C		Δ (%) CONCRETE	Δ (") CONCRETE	1	2	3	4		5	6	a	b	c	d	e		f	g		
			1	2			1	2																								3	4
A-8	GA-1		54.23		92°-33'-04"	7'-9"	51.83		96°-46'-30"	115'-5 7/8"	6'-2"	15'-11"	71'-3 7/8"	.161'	.185'	80"x 5/8"	14"x3/4"	14"x3/4"	14"x 7/8"	16"x 7/8"	14"x2 1/4"	18"x2 1/4"	9"	1'-11 15/16"	9x19"	9x19"	23x24"	2'-11 15/16"	9x19"	9x19"	GA-1		
	GA-2	6'-8"	53.86		92-14-43	7-11	51.43		96-28-37	114-11 1/8	7-8	15-8	68-11 1/16	.112	.128	"	"	"	14x1 1/4	18x1 3/4	14x1 1/2	18x2	3 1/2	0-10 9/16	9x19"	9x19"	23x24"	2-8 9/16"	"	"	GA-2		
	GA-3	7-5	53.40		92-01-12	7-11	50.81		96-15-07	114-3 13/16	"	"	68-3 13/16	"	"	"	"	"	"	"	"	"	"	"	0-6 15/16	"	"	"	2-4 15/16"	"	"	GA-3	
	GA-4	7-5	52.92		91-47-33	7-11	50.40		96-01-28	113-8 5/8	"	"	67-8 5/8	"	"	"	"	"	"	"	"	"	"	"	0-10 5/16	9x19"	"	23x24"	2-1 5/16"	"	"	GA-4	
	GA-5	7-8	52.45		91-38-48	7-11	49.90		95-47-40	113-1 1/2	"	"	67-1 1/2	"	"	"	"	"	"	"	"	"	"	"	0-6 9/8	"	"	"	1-8 9/8"	"	"	GA-5	
	GA-6	7-5	51.97		91-18-48	7-11	49.39		95-35-44	112-6 5/16	"	"	66-6 5/16	"	"	"	"	"	"	"	"	"	"	"	0-9 3/16	9x19"	"	"	2-3 3/16"	9x19"	"	GA-6	
	GA-7	7-5	51.50		91-05-44	7-11	48.88		95-19-39	111-11 3/16	"	"	65-11 3/16	"	"	"	"	"	"	"	"	"	"	"	1-0 3/8	9x19"	"	"	2-8 5/8"	9x19"	"	GA-7	
	GA-8	6-8	51.08		90-46-22	7-8	48.41		95-00-16	111-9 9/16	"	13-7	65-10 9/16	.156	.179	"	"	"	"	"	"	"	"	"	0-9 5/16	"	"	"	2-5 5/16"	"	"	GA-8	
A-9	GA-1		51.89		91-20-35	5-6	49.02		91-20-35	123-10	10-5	13-4	76-4	.153	.177	72x7/16	16x3/4	16x3/4	16x1 1/2	20x1 1/2	16x1 3/4	20x1 7/8	3 7/8	1-2	9x21"	-	46x24"	2-7	9x56"	12x72"	GA-1		
	GA-2	5-4	51.82		"	6-2	48.71		"	"	14-11	10-1	73-10	.108	.125	"	16x3/4	16x3/4	16x3/4	20x1 1/8	16x7/8	20x1 1/4	3 5/8	"	"	-	"	3-5	9x56"	14x72"	GA-2		
	GA-3	6-2	51.20		"	6-2	48.32		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	-	"	"	"	"	"	GA-3	
	GA-4	6-2	50.82		"	6-2	47.90		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	-	"	"	"	"	"	GA-4
	GA-5	6-2	50.43		"	6-2	47.48		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	-	"	"	"	"	"	GA-5
	GA-6	5-8	50.04		91-20-35	5-6	47.09		91-20-35	123-10	13-9	10-0	76-4	.153	.177	"	"	"	16x1	20x1 1/4	16x1 1/4	20x1 1/2	3 7/8	1-4	11x17"	-	"	4-2	9x56"	"	GA-6		
B-9	GB-5	4-10 9/16	48.67		90-28-01	6-5 3/16	46.61		90-28-01	123-9 11/16	9-11	13-10	76-3 1 1/16	.153	.177	"	"	"	16x1 1/2	20x1 1-2	16x1 3/4	20x1 7/8	"	1-3 7/8	"	-	"	2-6 7/8	9x56"	12x72"	GB-5		
	GB-3	6-6	48.36		"	6-6	46.20		"	"	13-9	10-0	76-3 11/16	.107	.124	"	"	"	16x3/4	20x1 1/4	16x1	20x1 1/2	3 1/2	0-10 7/8	10x18"	-	46x24"	4-1 7/8	9x56"	14x72"	GB-3		
	GB-2	7-0	48.90		"	7-0	45.75		"	"	"	"	"	"	"	"	"	"	"	"	"	"	3 1/2	"	"	-	"	"	"	"	"	GB-2	
	GB-1	6-6	48.46		90-28-01	6-6	45.31		90-28-01	123-9 11/16	"	"	"	.152	.175	"	"	"	16x1	"	16x1 1/4	"	3 7/8	"	"	-	"	"	"	"	"	GB-1	
A-10	GA-1		48.26		86-01-29	7-2 1/2	47.10		86-01-29	103-9	8-0	11-9	64-3	.127	.144	60x3/8	14x3/4	14x3/4	14x1 3/8	18x1 1/2	14x1 5/8	18x1 3/4	3 1/2	0-6 1/2	9x 13"	11x17"	26x24"	3-1 1/2	7x5	9x50"	GA-1		
	GA-2	7-2 1/2	48.88		"	7-8	46.64		"	"	8-0	11-9	64-3	.086	.098	"	14x3/4	14x3/4	14x7/8	18x1 1/2	14x1 1/8	18x1 3/4	3	0-6 1/2	9x13"	11x17"	26x24"	3-1 1/2	7x5	9x50"	GA-2		
	GA-3	7-8	48.39		"	7-8	46.11		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	GA-3	
	GA-4	7-8	47.90		"	7-8	45.61		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	GA-4
	GA-5	7-2 1/2	47.31		86-01-29	7-2 1/2	45.09		86-01-29	103-9	8-0	11-9	64-3	.127	.145	"	"	"	14x1 1/8	"	14x1 3/8	"	3 1/2	"	"	"	"	"	"	"	"	GA-5	
B-10	GB-4	6-3 3/16	46.73		85-56-35	6-4 15/16	44.24		85-56-35	103-9 3/16	"	"	64-3 3/16	.127	.144	"	"	"	14x1 3/8	"	14x1 5/8	"	3 1/2	0-6 5/8	"	"	"	"	3-1 5/8	"	"	GB-4	
	GB-3	6-5	46.39		"	6-5	43.90		"	"	"	"	"	.086	.098	"	"	"	14x7/8	"	14x1 1/8	"	3	"	"	"	"	"	"	"	"	GB-3	
	GB-2	7-0	45.93		"	7-0	43.53		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	GB-2	
	GB-1	6-5	45.54		85-56-35	6-5	43.14		85-56-35	103-9 3/16	8-0	11-9	64-3 3/16	.128	.147	"	"	"	14x1	"	14x1 1/4	"	3 1/2	"	"	"	"	"	"	"	"	GB-1	